

Electronic Supplementary Information for

Catalytic Asymmetric Synthesis of Quaternary Trifluoromethyl- Containing α - to ϵ -Amino Acids *via* Umpolung Allylation/2-aza-Cope Rearrangement

Xi-Shang Sun, Xing-Heng Wang, Hai-Yan Tao, Liang Wei* and Chun-Jiang Wang*

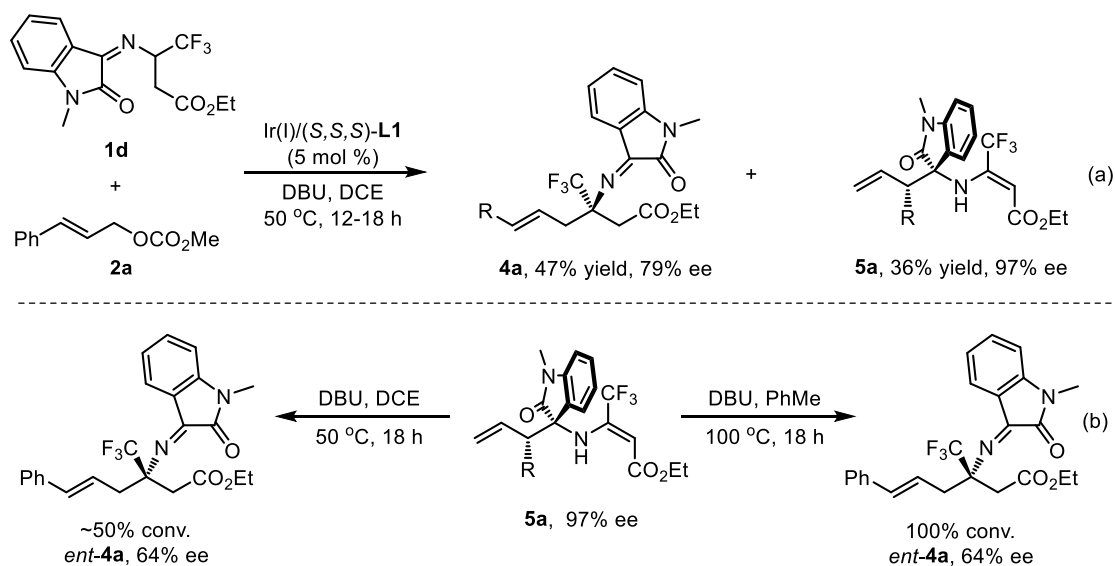
Table of Contents

1.	General remarks.....	S2
2.	Control experiments.....	S2
3.	Procedure for the synthesis of ketoimine ester 1	S3
4.	General procedure for the cascade umpolung allylation/2-aza-Cope rearrangement.....	S8
5.	Synthetic transformations.....	S36
6.	References.....	S42
7.	NMR spectra.....	S43
8.	HPLC spectra.....	S164

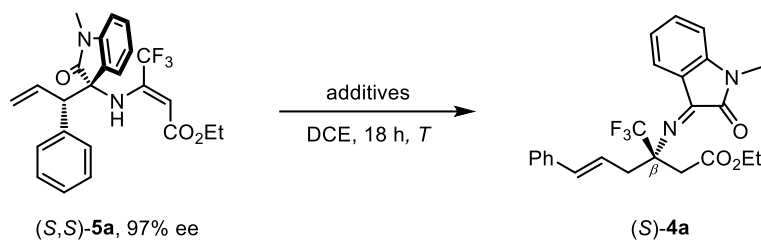
1. General remarks

^1H NMR spectra were recorded on a Bruker 400 MHz spectrometer in CDCl_3 . Chemical shifts are reported in ppm with the internal TMS signal at 0.0 ppm as a standard. ^{13}C NMR spectra were recorded on a Bruker 100 MHz spectrometer in CDCl_3 . Chemical shifts are reported in ppm with the internal chloroform signal at 77.0 ppm as a standard. ^{19}F NMR spectra were recorded on a Bruker 376 MHz spectrometer in CDCl_3 . Chemical shifts are reported in ppm with the internal CF_3COOH signal at -76.55 ppm. The data are reported as (s = single, d = double, t = triple, q = quartet, m = multiple or unresolved, brs = broad single, coupling constant(s) in Hz, integration). Commercially obtained reagents were used without further purification. All reactions were monitored by TLC with silica gel-coated plates. Enantiomeric ratios were determined by HPLC, using a chiralpak AD-H, chiralpak IE, chiralpak ID and chiralpak AS with hexane and *i*-PrOH. High Resolution Mass Spectra were recorded using ESI-TOF technique. Optical rotations were measured on an Rudolph Research Analytical Autopol VI polarimeter with $[\alpha]_D$ values reported in degrees; concentration (c) is in g/100 mL. All reactions were reacted under N_2 atmosphere. Allylic carbonates **2**¹ were prepared according to the literature procedure. Chiral ligands (*S,S,S*)-**L1** was prepared according to the literature procedure.² The racemic products were obtained by running reactions with a racemic catalyst.

2. Control experiments



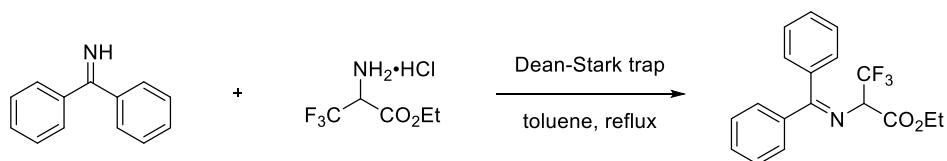
Scheme S1. Control experiments.

Table S1. The evaluation of the acceleration effect of additives

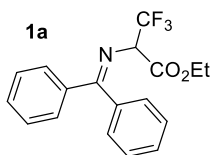
entry	Additives (x equiv)	<i>T</i> /°C	Conv. (%) ^a	ee (%) ^b
1	(<i>R</i>)-CPA (1.0 equiv)	25	-	-
2	(+)-CSA (1.0 equiv)	25	-	-
3	Et ₃ B (1.0 equiv)	25	-	-
4	AlCl ₃ (1.0 equiv)	25	-	-
5	DBU (1.0 equiv)	25	-	-
6	DBU (1.0 equiv)	50	50	64
7	Ir-complex (0.1 equiv)	50	50	64

^a Determined by crude ¹H NMR. ^b Determined by HPLC analysis.

3. Procedure for the synthesis of ketoimine ester **1**

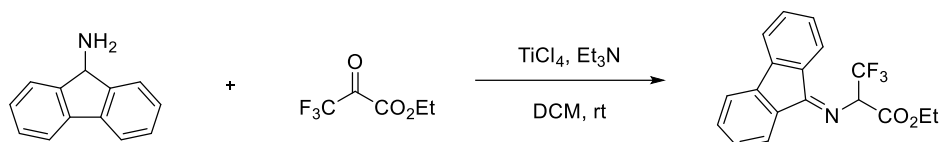


In a 100 mL round-bottom flask, diphenylmethanimine (10.0 mmol, 1.0 equiv) and α -trifluoromethyl α -amino ester hydrochloride⁴ (11.0 mmol, 1.1 equiv) were dissolved in 40 mL toluene. Equipped with a reflux condenser, a magnetic stirring bar and Dean-Stark trap, the system was heated to reflux for 5 hours to ensure equivalent water was distilled out. After cooling to rt, toluene was evaporated in vacuo to give the crude **1a** which was purified by column chromatography (PE : EA = 20 : 1).

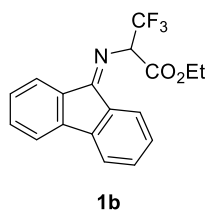


Ethyl 2-((diphenylmethylene)amino)-3,3,3-trifluoropropanoate:

Colourless oil; 80% yield. ^1H NMR (400 MHz, CDCl_3) δ 7.74 – 7.66 (m, 2H), 7.54 – 7.42 (m, 4H), 7.36 (t, $J = 7.5$ Hz, 2H), 7.23 – 7.15 (m, 2H), 4.60 (qd, $J = 7.2, 1.7$ Hz, 1H), 4.36 – 4.08 (m, 2H), 1.26 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 175.7, 164.9 (q, $J = 2.1$ Hz), 138.5, 135.1, 131.4, 129.4, 129.3, 128.9, 128.2, 127.6, 123.1 (q, $J = 281.5$ Hz), 67.2 (q, $J = 29.1$ Hz), 62.2, 14.0. ^{19}F NMR (376 MHz, CDCl_3) δ -71.18 (d, $J = 7.1$ Hz). HRMS Calcd. For $\text{C}_{18}\text{H}_{17}\text{F}_3\text{NO}_2$ ($[\text{M}+\text{H}]^+$): 336.1202, found: 336.1193.



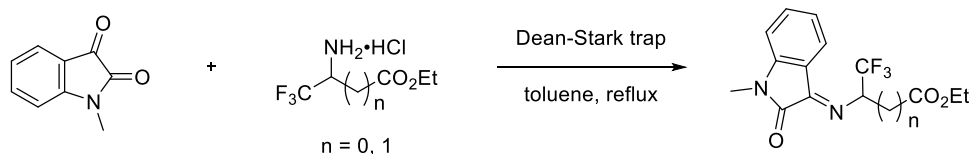
In a 100 mL round-bottom flask, 9H-fluoren-9-amine (12.0 mmol, 1.2 equiv.) and ethyl 3,3,3-trifluoro-2-oxopropanoate (10.0 mmol, 1.0 equiv.) were dissolved with 40 mL DCM, and triethylamine (30.0 mmol, 3.0 equiv.) was added to the solution. Then the mixture was cooled to 0 °C, and then titanium tetrachloride (6.0 mmol, 0.6 equiv.) was added dropwise to the solution and the reaction mixture was stirred at room temperature until TLC revealed complete conversion of ethyl 3,3,3-trifluoro-2-oxopropanoate. After reaction completed, the reaction mixture was quenched by 10% NaOH solution, the reaction mixture was filtered and the organic layer was washed with saturated NaHCO_3 , saturated NaCl, and dried over Na_2SO_4 . Organic layer was concentrated under reduced pressure, the crude mixture was purified by silica-gel (treated with Et_3N) column chromatography to obtain the compounds **1b** in good yields.



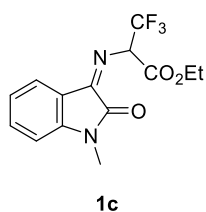
Ethyl 2-((9H-fluoren-9-ylidene)amino)-3,3,3-trifluoropropanoate:

Yellow oil; 88% yield. ^1H NMR (400 MHz, CDCl_3) δ 7.92 (d, $J = 7.5$ Hz, 1H), 7.67 (dd, $J = 16.3, 7.6$ Hz, 2H), 7.55 (d, $J = 7.5$ Hz, 1H), 7.52 – 7.40 (m, 2H), 7.38 – 7.25 (m, 2H), 5.58 (q, $J = 7.1$ Hz, 1H), 4.30 (q, $J = 7.1$ Hz, 2H), 1.26 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3)

δ 168.7, 164.5, 144.4, 141.3, 137.8, 132.7, 132.2, 131.2, 128.7, 128.2, 126.7, 123.9, 123.4 (q, J = 282.0 Hz), 120.8, 119.5, 66.5 (q, J = 29.9 Hz), 62.8, 14.0. ^{19}F NMR (376 MHz, CDCl_3) δ - 72.38 (d, J = 7.0 Hz). HRMS Calcd. For $\text{C}_{18}\text{H}_{15}\text{F}_3\text{NO}_2$ ($[\text{M}+\text{H}]^+$): 334.1049, found: 334.1040.

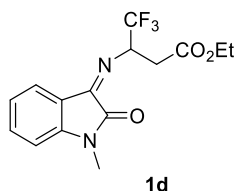


α -Trifluoromethyl α -amino ester hydrochloride or β -trifluoromethyl β -amino ester hydrochloride⁵ (10.0 mmol, 1.0 equiv) and N-methyl isatin (11.0 mmol, 1.1 equiv) were added to a 100 mL round-bottom flask which was equipped with a reflux condenser, a magnetic stirring bar and Dean-Stark trap. After the addition of toluene, the system was heated to reflux for 5 hours to ensure equivalent water was distilled out. After cooling to rt, toluene was evaporated in vacuo to give the crude isatin-activated ketoimine esters which were purified by column chromatography (PE : EA = 5:1).



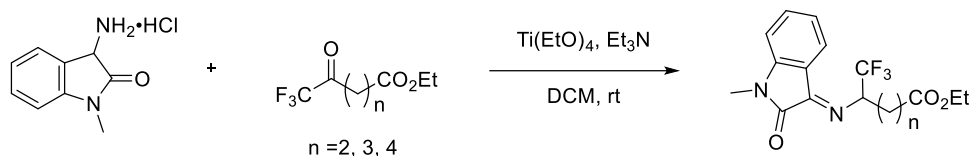
Ethyl (Z)-3,3,3-trifluoro-2-((1-methyl-2-oxoindolin-3-ylidene)amino)propanoate

Yellow solid; 90% yield. ^1H NMR (400 MHz, CDCl_3) δ 7.79 (d, J = 7.4 Hz, 1H), 7.49 (td, J = 7.8, 1.0 Hz, 1H), 7.14 (t, J = 7.5 Hz, 1H), 6.84 (d, J = 7.9 Hz, 1H), 6.22 (q, J = 8.0 Hz, 1H), 4.43 – 4.16 (m, 2H), 3.21 (s, 3H), 1.32 (t, J = 7.1 Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 163.8, 158.5, 158.1, 146.7, 134.4, 123.7, 123.6, 123.3 (q, J = 280.9 Hz), 120.5, 108.9, 64.5 (q, J = 30.1 Hz), 62.6, 25.9, 14.0. ^{19}F NMR (376 MHz, CDCl_3) δ -71.84 (d, J = 8.1 Hz). HRMS Calcd. For $\text{C}_{14}\text{H}_{14}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 315.0951, found: 315.0939.

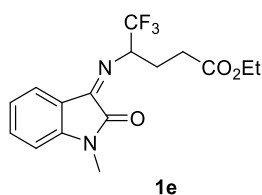


Ethyl (Z)-4,4,4-trifluoro-3-((1-methyl-2-oxoindolin-3-ylidene)amino)butanoate:

Yellow solid; 91% yield. ¹H NMR (400 MHz, CDCl₃) δ 7.57 (dd, *J* = 7.4, 0.6 Hz, 1H), 7.37 (td, *J* = 7.8, 1.2 Hz, 1H), 7.00 (td, *J* = 7.6, 0.7 Hz, 1H), 6.72 (d, *J* = 7.9 Hz, 1H), 6.65 – 6.47 (m, 1H), 4.10 – 3.95 (m, 2H), 3.13 (s, 3H), 2.95 – 2.75 (m, 2H), 1.11 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 168.4, 157.6, 156.5, 145.1, 133.1, 123.6 (q, *J* = 282.8 Hz), 122.3, 122.1, 119.7, 107.7, 60.0, 55.2 (q, *J* = 29.5 Hz), 33.9, 24.8, 13.0. ¹⁹F NMR (376 MHz, CDCl₃) δ -74.93 (d, *J* = 7.3 Hz). HRMS Calcd. For C₁₅H₁₆F₃N₂O₃ ([M+H]⁺): 329.1108, found: 329.1100.

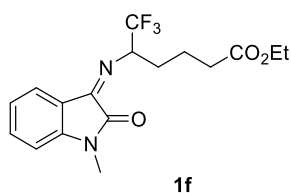


In a 100 mL round-bottom flask, 3-amino oxindole hydrochloride (12.0 mmol, 1.2 equiv.) and trifluoromethyl substituted γ - to ε -ketoesters⁶ (10.0 mmol, 1.0 equiv.) were dissolved with 40 mL DCM, and triethylamine (30.0 mmol, 3.0 equiv.) was added to the solution. Then tetraethyl titanate (30.0 mmol, 3.0 equiv.) was added dropwise to the solution and the reaction mixture was stirred at room temperature until TLC revealed complete conversion of ketoesters. After reaction completed, the reaction mixture was quenched by water, the reaction mixture was filtered and the organic layer was washed with saturated NaHCO₃, saturated NaCl, and dried over Na₂SO₄. Organic layer was concentrated under reduced pressure, the crude mixture was purified by silica-gel column chromatography to obtain compounds in good yields.



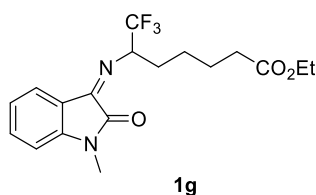
Ethyl (Z)-5,5,5-trifluoro-4-((1-methyl-2-oxoindolin-3-ylidene)amino)pentanoate:

Yellow solid; 88% yield. ^1H NMR (400 MHz, CDCl_3) δ 7.67 (d, $J = 7.4$ Hz, 1H), 7.47 (td, $J = 7.8, 1.2$ Hz, 1H), 7.11 (t, $J = 7.6$ Hz, 1H), 6.83 (d, $J = 7.8$ Hz, 1H), 6.18 – 6.02 (m, 1H), 4.15 – 4.04 (m, 2H), 3.22 (s, 3H), 2.47 – 2.28 (m, 3H), 2.24 – 2.12 (m, 1H), 1.21 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 172.4, 158.7, 156.6, 146.0, 134.0, 125.2 (q, $J = 281.6$ Hz), 123.5, 123.1, 120.7, 108.7, 60.6, 59.0 (q, $J = 28.9$ Hz), 30.1, 25.9, 25.0, 14.2. ^{19}F NMR (376 MHz, CDCl_3) δ -74.53 (d, $J = 7.3$ Hz). HRMS Calcd. For $\text{C}_{16}\text{H}_{18}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 344.1295, found: 344.1287.



Ethyl (Z)-6,6,6-trifluoro-5-((1-methyl-2-oxoindolin-3-ylidene)amino)hexanoate:

Yellow solid; 90% yield. ^1H NMR (400 MHz, CDCl_3) δ 7.68 (d, $J = 7.5$ Hz, 1H), 7.46 (t, $J = 7.7$ Hz, 1H), 7.11 (t, $J = 7.5$ Hz, 1H), 6.82 (d, $J = 7.8$ Hz, 1H), 6.19 – 5.93 (m, 1H), 4.10 (q, $J = 7.1$ Hz, 2H), 3.22 (s, 3H), 2.41 – 2.27 (m, 2H), 2.14 – 1.97 (m, 1H), 1.97 – 1.81 (m, 1H), 1.79 – 1.57 (m, 2H), 1.23 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 173.1, 158.7, 156.2, 145.9, 133.8, 123.4, 123.0, 122.5 (q, $J = 281.0$ Hz), 120.8, 108.7, 60.4, 59.5 (q, $J = 28.7$ Hz), 33.9, 29.4, 25.8, 20.7, 14.2. ^{19}F NMR (376 MHz, CDCl_3) δ -74.45 (d, $J = 7.2$ Hz). HRMS Calcd. For $\text{C}_{17}\text{H}_{20}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 357.1421, found: 357.1413.

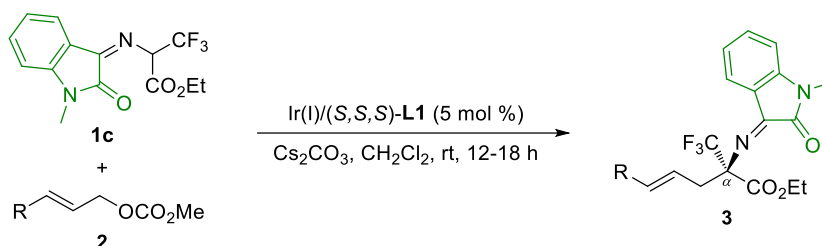


Ethyl (Z)-7,7,7-trifluoro-6-((1-methyl-2-oxoindolin-3-ylidene)amino)heptanoate:

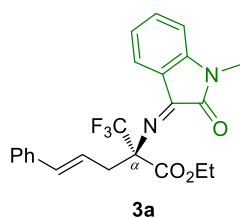
Yellow solid; 92% yield. ^1H NMR (400 MHz, CDCl_3) δ 7.68 (dd, $J = 7.4, 0.6$ Hz, 1H), 7.46 (td, $J = 7.8, 1.2$ Hz, 1H), 7.11 (td, $J = 7.6, 0.7$ Hz, 1H), 6.83 (d, $J = 7.8$ Hz, 1H), 6.20 – 5.97 (m, 1H), 4.08 (q, $J = 7.1$ Hz, 2H), 2.27 (t, $J = 7.5$ Hz, 2H), 2.07 – 1.96 (m, 1H), 1.89 – 1.76 (m, 1H), 1.70 – 1.60 (m, 2H), 1.44 – 1.30 (m, 2H), 1.21 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 173.5, 158.7, 156.0, 145.8, 133.8, 125.3 (q, $J = 281.4$ Hz), 123.4, 122.9, 120.8, 108.6, 60.3,

59.8 (q, $J = 28.4$ Hz), 34.0, 29.7, 25.9, 24.8, 24.7, 14.2. ^{19}F NMR (376 MHz, CDCl_3) δ -74.43 (d, $J = 7.5$ Hz). HRMS Calcd. For $\text{C}_{18}\text{H}_{22}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 371.1577, found: 371.1569.

4. General procedure for the cascade umpolung allylation/2-aza-Cope rearrangement.



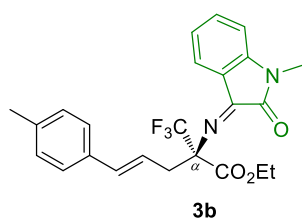
In a 25 mL nitrogen-filled dry Schlenk tube, $[\text{Ir}(\text{COD})\text{Cl}]_2$ (3.3 mg, 0.005 mmol), phosphoramidite ligand (*S,S,S*)-**L1** (5.6 mg, 0.01 mmol), degassed THF (0.5 mL) and degassed propylamine (0.5 mL) were added. After stirring at 50 °C for 30 mins, the reaction was concentrated via rotary evaporation under reduced pressure to give the iridium complex as a pale yellow solid.⁷ Then, ethyl (*Z*)-3,3,3-trifluoro-2-((1-methyl-2-oxoindolin-3-ylidene)amino)propanoate **1c** (0.20 mmol), allylic carbonates **2** (0.22 mmol), Cs_2CO_3 (0.2 mmol) and dry CH_2Cl_2 (2 mL) was added into the nitrogen-refilled Schlenk tube. Once starting material was consumed (monitored by TLC), the reaction mixture was concentrated via rotary evaporation under reduced pressure, and then purified by flash chromatography on silica gel (PE / EA = 5:1) to give the racemic product **3**.



Ethyl (*R,E*)-2-(((*Z*)-1-methyl-2-oxoindolin-3-ylidene)amino)-5-phenyl-2-(trifluoromethyl)pent-4-enoate:

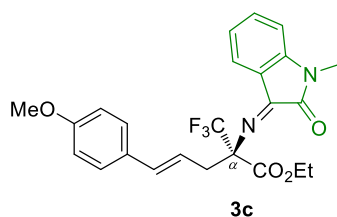
Yellow oil; 99% yield. $[\alpha]_D^{25} = 80.9$ (c 3.22, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.71 (dd, $J = 7.4, 0.6$ Hz, 1H), 7.41 (td, $J = 7.7, 1.2$ Hz, 1H), 7.24 – 7.03 (m, 6H), 6.69 (d, $J = 7.8$ Hz,

1H), 6.32 – 6.05 (m, 2H), 4.41 – 4.17 (m, 2H), 3.63 – 3.47 (m, 1H), 3.13 – 3.00 (m, 1H), 2.94 (s, 3H), 1.27 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 165.4, 157.8, 156.1, 146.3, 137.0, 134.0, 133.9, 128.4, 127.3, 126.2, 125.0 (q, $J = 287.4$ Hz)124.6, 123.4, 123.3, 121.3, 108.6, 73.2 (q, $J = 25.6$ Hz), 62.1, 35.9, 25.7, 14.0. ^{19}F NMR (376 MHz, CDCl_3) δ -75.57 (s). HRMS Calcd. For $\text{C}_{23}\text{H}_{22}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 431.1577, found: 431.1566. The product was analyzed by HPLC to determine the enantiomeric excess: 96% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 290$ nm); $t_r = 6.96$ and 7.85 min.



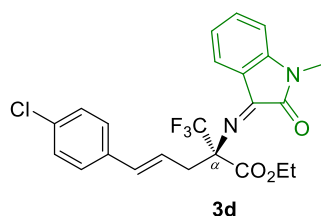
Ethyl (R,E)-2-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-5-(p-tolyl)-2-(trifluoromethyl)pent-4-enoate:

Yellow oil; 91% yield; $[\alpha]_D^{25} = 65.5$ (c 6.64, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.71 (d, $J = 6.9$ Hz, 1H), 7.41 (td, $J = 7.8, 1.2$ Hz, 1H), 7.18 – 6.94 (m, 5H), 6.70 (d, $J = 7.8$ Hz, 1H), 6.17 – 6.02 (m, 2H), 4.42 – 4.15 (m, 2H), 3.52-3.51 (m, 1H), 3.12 – 3.01 (m, 1H), 2.96 (s, 3H), 2.28 (s, 3H), 1.27 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 165.4, 157.7, 156.1, 146.3, 137.1, 134.3, 133.8, 129.0, 126.1, 125.0 (q, $J = 287.3$ Hz), 123.5, 123.3, 121.3, 108.5, 73.3 (q, $J = 25.4$ Hz), 62.1, 35.9, 25.7, 21.2, 13.9. ^{19}F NMR (376 MHz, CDCl_3) δ -75.57 (s). HRMS Calcd. For $\text{C}_{24}\text{H}_{24}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 445.1734, found: 445.1722. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 246$ nm); $t_r = 6.64$ and 7.42 min.



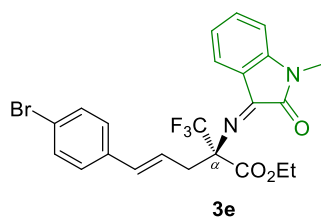
Ethyl (R,E)-5-(4-methoxyphenyl)-2-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-2-(trifluoromethyl)pent-4-enoate:

Yellow oil; 89% yield; $[\alpha]_D^{25} = 99.3$ (*c* 4.97, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.71 (d, *J* = 7.2 Hz, 1H), 7.41 (td, *J* = 7.7, 0.9 Hz, 1H), 7.19 – 6.99 (m, 3H), 6.72 (dd, *J* = 23.2, 8.2 Hz, 3H), 6.20 – 5.87 (m, 2H), 4.42 – 4.17 (m, 2H), 3.76 (s, 3H), 3.59-3.47 (m, 1H), 3.09 – 2.98 (m, 1H), 2.95 (s, 3H), 1.27 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 165.4, 159.0, 157.8, 156.0, 146.3, 133.8, 133.4, 129.9, 127.3, 125.0 (q, *J* = 287.5 Hz), 123.3, 122.4, 121.3, 113.7, 108.5, 73.3 (q, *J* = 25.6 Hz), 62.1, 55.3, 35.9, 25.7, 13.9. ¹⁹F NMR (376 MHz, CDCl₃) δ -75.57 (s). HRMS Calcd. For C₂₄H₂₄F₃N₂O₄ ([M+H]⁺): 461.1683, found: 461.1676. The product was analyzed by HPLC to determine the enantiomeric excess: 96% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 246 nm); *t_r* = 10.47 and 12.92 min.



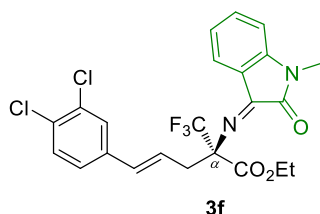
Ethyl (R,E)-5-(4-chlorophenyl)-2-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-2-(trifluoromethyl)pent-4-enoate:

Yellow oil; 99% yield; $[\alpha]_D^{25} = 93.3$ (*c* 5.23, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.71 (d, *J* = 7.4 Hz, 1H), 7.42 (t, *J* = 7.7 Hz, 1H), 7.23 – 7.01 (m, 5H), 6.72 (d, *J* = 7.8 Hz, 1H), 6.28 – 5.99 (m, 2H), 4.39 – 4.16 (m, 2H), 3.53-3.50 (m, 1H), 3.10-3.04 (m, 1H), 2.98 (s, 3H), 1.26 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 165.3, 157.7, 156.1, 146.3, 135.5, 134.0, 132.9, 132.6, 128.5, 127.4, 125.3, 124.9 (q, *J* = 287.4 Hz), 123.4, 123.4, 121.2, 108.6, 73.1 (q, *J* = 25.5 Hz), 62.2, 35.9, 25.8, 13.9. ¹⁹F NMR (376 MHz, CDCl₃) δ -75.57 (s). HRMS Calcd. For C₂₃H₂₁ClF₃N₂O₃ ([M+H]⁺): 465.1187, found: 465.1172. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 246 nm); *t_r* = 6.89 and 7.66 min.



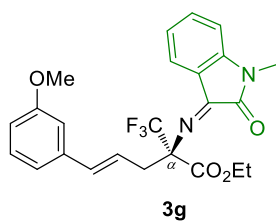
Ethyl (R,E)-5-(4-bromophenyl)-2-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-2-(trifluoromethyl)pent-4-enoate

Yellow oil; 87% yield; $[\alpha]_D^{25} = 48.1$ (*c* 7.52, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.76 – 7.65 (m, 1H), 7.43 (td, *J* = 7.8, 1.1 Hz, 1H), 7.33 (d, *J* = 8.5 Hz, 2H), 7.18 – 7.00 (m, 3H), 6.72 (d, *J* = 7.8 Hz, 1H), 6.13 (dt, *J* = 25.4, 12.2 Hz, 2H), 4.39 – 4.15 (m, 2H), 3.53–3.50 (m, 1H), 3.10–3.03 (m, 1H), 2.98 (s, 3H), 1.26 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 165.3, 157.7, 156.1, 146.3, 135.9, 134.0, 132.7, 131.4, 127.7, 125.5, 124.9 (q, *J* = 287.5), 123.4, 123.4, 121.2, 121.0, 108.6, 73.1 (q, *J* = 25.5), 62.2, 35.9, 25.8, 13.9. ¹⁹F NMR (376 MHz, CDCl₃) δ -75.58 (s). HRMS Calcd. For C₂₃H₂₁BrF₃N₂O₃ ([M+H]⁺): 509.0682, found: 509.0664. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 246 nm); t_r = 7.31 and 8.12 min.



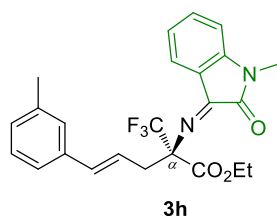
Ethyl (R,E)-5-(3,4-dichlorophenyl)-2-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-2-(trifluoromethyl)pent-4-enoate:

Yellow oil; 99% yield; $[\alpha]_D^{25} = 38.1$ (*c* 7.51, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.71 (d, *J* = 7.4 Hz, 1H), 7.44 (t, *J* = 7.6 Hz, 1H), 7.31 – 7.19 (m, 2H), 7.13 – 6.97 (m, 2H), 6.74 (d, *J* = 7.8 Hz, 1H), 6.26 – 5.99 (m, 2H), 4.42 – 4.15 (m, 2H), 3.53–3.50 (m, 1H), 3.14 – 3.06 (m, 1H), 2.97 (s, 3H), 1.27 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 165.2, 157.7, 156.2, 146.3, 137.2, 134.1, 132.4, 131.5, 130.9, 130.3, 127.8, 126.8, 125.4, 124.9 (q, *J* = 287.0 Hz), 123.5, 123.4, 121.2, 108.7, 73.0 (q, *J* = 25.6 Hz), 62.2, 35.8, 25.8, 13.9. ¹⁹F NMR (376 MHz, CDCl₃) δ -75.54 (s). HRMS Calcd. For C₂₃H₂₀Cl₂F₃N₂O₃ ([M+H]⁺): 499.0798, found: 499.0781. The product was analyzed by HPLC to determine the enantiomeric excess: 90% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 246 nm); t_r = 7.11 and 7.79 min.



Ethyl (R,E)-5-(3-methoxyphenyl)-2-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-2-(trifluoromethyl)pent-4-enoate:

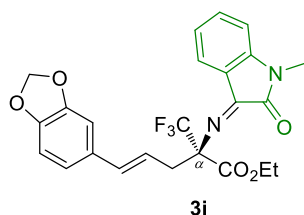
Yellow oil; 99% yield; $[\alpha]_D^{25} = 98.5$ (c 4.36, CH_2Cl_2). $^1\text{H NMR}$ (400 MHz, CDCl_3) δ 7.71 (d, $J = 7.3$ Hz, 1H), 7.41 (td, $J = 7.7, 1.0$ Hz, 1H), 7.20 – 6.99 (m, 2H), 6.86 – 6.62 (m, 4H), 6.23 – 6.02 (m, 2H), 4.39 – 4.15 (m, 2H), 3.73 (s, 3H), 3.57-3.52 (m, 1H), 3.13 – 3.03 (m, 1H), 2.97 (s, 3H), 1.27 (t, $J = 7.1$ Hz, 3H). $^{13}\text{C NMR}$ (101 MHz, CDCl_3) δ 165.4, 159.6, 157.7, 156.2, 146.3, 138.5, 133.9, 133.9, 129.3, 125.0 (q, $J = 287.2$ Hz), 124.9, 123.4, 123.3, 121.3, 118.7, 113.0, 111.4, 108.6, 73.2 (q, $J = 25.7$ Hz), 62.1, 55.2, 35.8, 25.7, 13.9. $^{19}\text{F NMR}$ (376 MHz, CDCl_3) δ -75.56 (s). HRMS Calcd. For $\text{C}_{24}\text{H}_{24}\text{F}_3\text{N}_2\text{O}_4$ ($[\text{M}+\text{H}]^+$): 461.1683, found: 461.1668. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 246$ nm); $t_r = 10.07$ and 11.76 min.



Ethyl (R,E)-2-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-5-(m-tolyl)-2-(trifluoromethyl)pent-4-enoate:

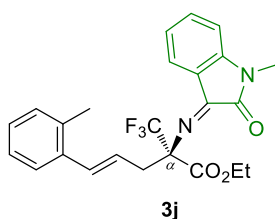
Yellow oil; 92% yield; $[\alpha]_D^{25} = 178.2$ (c 1.38, CH_2Cl_2). $^1\text{H NMR}$ (400 MHz, CDCl_3) δ 7.79 – 7.63 (m, 1H), 7.41 (td, $J = 7.8, 1.2$ Hz, 1H), 7.09 (ddd, $J = 12.5, 6.9, 5.4$ Hz, 2H), 6.97 (d, $J = 6.5$ Hz, 3H), 6.69 (d, $J = 7.8$ Hz, 1H), 6.18 – 6.04 (m, 2H), 4.41 – 4.14 (m, 2H), 3.56-3.52 (m, 1H), 3.11 – 3.01 (m, 1H), 2.94 (s, 3H), 2.26 (s, 3H), 1.26 (t, $J = 7.1$ Hz, 3H). $^{13}\text{C NMR}$ (101 MHz, CDCl_3) δ 165.4, 157.8, 156.1, 146.3, 137.9, 137.0, 134.2, 133.9, 128.3, 128.1, 126.9, 125.0 (q, $J = 287.4$ Hz), 124.4, 123.4, 123.3, 121.3, 108.6, 73.3 (q, $J = 25.5$ Hz), 62.1, 35.9, 25.7, 21.4, 14.0. $^{19}\text{F NMR}$ (376 MHz, CDCl_3) δ -75.55 (s). HRMS Calcd. For $\text{C}_{24}\text{H}_{24}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 445.1734, found: 445.1723. The product was analyzed by HPLC to determine the

enantiomeric excess: 94% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 246$ nm); $t_r = 6.88$ and 7.66 min.



Ethyl (*R,E*)-5-(benzo[d][1,3]dioxol-5-yl)-2-(((*Z*)-1-methyl-2-oxoindolin-3-ylidene)amino)-2-(trifluoromethyl)pent-4-enoate:

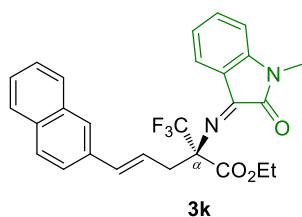
Yellow oil; 98% yield; $[\alpha]_D^{25} = 116.9$ (*c* 1.42, CH_2Cl_2). $^1\text{H NMR}$ (400 MHz, CDCl_3) δ 7.71 (d, $J = 7.3$ Hz, 1H), 7.42 (dd, $J = 11.2, 4.3$ Hz, 1H), 7.20 – 7.02 (m, 1H), 6.85 – 6.69 (m, 2H), 6.69 – 6.62 (m, 1H), 6.62 – 6.52 (m, 1H), 6.07 (d, $J = 15.8$ Hz, 1H), 6.02 – 5.81 (m, 3H), 4.33-4.21 (m, 2H), 3.53-3.48 (m, 1H), 3.12 – 3.04 (m, 1H), 2.95 (s, 3H), 1.27 (t, $J = 7.1$ Hz, 3H). $^{13}\text{C NMR}$ (101 MHz, CDCl_3) δ 165.4, 157.7, 156.1, 147.8, 146.9, 146.3, 133.9, 133.4, 131.6, 125.0 (q, $J = 287.45$ Hz), 123.4, 123.4, 122.8, 121.3, 120.6, 108.6, 108.1, 105.6, 101.0, 73.2 (q, $J = 25.5$ Hz), 62.1, 35.8, 25.8, 13.9. $^{19}\text{F NMR}$ (376 MHz, CDCl_3) δ -75.51 (s). HRMS Calcd. For $\text{C}_{24}\text{H}_{22}\text{F}_3\text{N}_2\text{O}_5$ ($[\text{M}+\text{H}]^+$): 475.1475, found: 475.1466. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpakl ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 246$ nm); $t_r = 12.73$ and 16.89 min.



Ethyl (*R,E*)-2-(((*Z*)-1-methyl-2-oxoindolin-3-ylidene)amino)-5-(*o*-tolyl)-2-(trifluoromethyl)pent-4-enoate:

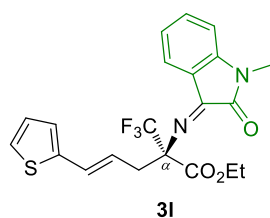
Yellow oil; 82% yield; $[\alpha]_D^{25} = 78.7$ (*c* 1.22, CH_2Cl_2). $^1\text{H NMR}$ (400 MHz, CDCl_3) δ 7.70 (d, $J = 7.4$ Hz, 1H), 7.41 (t, $J = 7.7$ Hz, 1H), 7.28 (dd, $J = 12.7, 7.8$ Hz, 2H), 7.15 – 6.96 (m, 3H), 6.71 (d, $J = 7.8$ Hz, 1H), 6.35 (d, $J = 15.7$ Hz, 1H), 6.01 (dt, $J = 15.4, 7.5$ Hz, 1H), 4.27 (dddd, $J = 25.0, 10.7, 7.2, 3.6$ Hz, 2H), 3.61-3.57 (m, 1H), 3.14-3.10 (m, 1H), 2.98 (s, 3H), 2.01 (s,

3H), 1.27 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 165.4, 157.7, 156.1, 146.4, 136.1, 135.0, 134.0, 132.0, 130.0, 127.2, 126.0, 125.8, 125.7, 125.1 (q, $J = 287.3$ Hz), 123.4, 123.4, 121.3, 108.6, 73.2 (q, $J = 25.7$ Hz), 62.2, 36.1, 25.7, 19.3, 14.0. ^{19}F NMR (376 MHz, CDCl_3) δ -75.57 (s). HRMS Calcd. For $\text{C}_{24}\text{H}_{24}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 445.1734, found: 445.1726. The product was analyzed by HPLC to determine the enantiomeric excess: 63% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 246$ nm); $t_r = 6.62$ and 7.14 min.



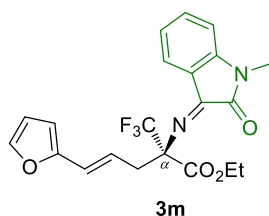
Ethyl (R,E)-2-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-5-(naphthalen-2-yl)-2-(trifluoromethyl)pent-4-enoate:

Yellow oil; 86% yield; $[\alpha]_D^{25} = 80.9$ (c 2.51, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.83 – 7.61 (m, 4H), 7.53 – 7.34 (m, 5H), 7.09 (td, $J = 7.6, 0.5$ Hz, 1H), 6.62 (d, $J = 7.8$ Hz, 1H), 6.28 (s, 2H), 4.44 – 4.16 (m, 2H), 3.69 – 3.55 (m, 1H), 3.14 – 3.04 (m, 1H), 2.85 (s, 3H), 1.28 (t, $J = 7.2$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 165.4, 157.8, 156.2, 146.3, 134.5, 134.2, 133.9, 133.4, 132.8, 128.0, 127.9, 127.6, 126.2, 125.7, 125.7, 125.1, 125.0 (q, $J = 288.1$ Hz), 123.6, 123.4, 123.4, 121.3, 108.6, 73.3 (q, $J = 25.6$ Hz), 62.1, 36.1, 25.7, 14.0. ^{19}F NMR (376 MHz, CDCl_3) δ -75.58 (s). HRMS Calcd. For $\text{C}_{27}\text{H}_{24}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 481.1734, found: 481.1722. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 246$ nm); $t_r = 8.78$ and 10.12 min.



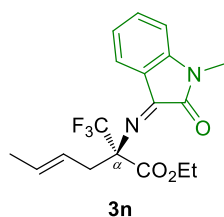
Ethyl (R,E)-2-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-5-(thiophen-2-yl)-2-(trifluoromethyl)pent-4-enoate:

Yellow oil; 90% yield; $[\alpha]_D^{25} = 102.3$ (*c* 6.60, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.77 – 7.65 (m, 1H), 7.42 (td, *J* = 7.8, 1.2 Hz, 1H), 7.16 – 6.99 (m, 2H), 6.86 (dd, *J* = 5.1, 3.5 Hz, 1H), 6.73 (d, *J* = 8.2 Hz, 2H), 6.30 (d, *J* = 15.6 Hz, 1H), 5.98 (dt, *J* = 15.4, 7.6 Hz, 1H), 4.40 – 4.18 (m, 2H), 3.50–3.47 (m, 1H), 3.12 – 3.00 (m, 1H), 2.98 (s, 3H), 1.27 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 165.3, 157.7, 156.2, 146.4, 142.0, 134.0, 127.1, 127.0, 125.0 (q, *J* = 287.3 Hz), 124.9, 124.2, 124.0, 123.4, 121.3, 108.6, 73.1 (q, *J* = 25.6 Hz), 62.2, 35.8, 25.8, 13.9. ¹⁹F NMR (376 MHz, CDCl₃) δ -75.50 (s). HRMS Calcd. For C₂₁H₂₀F₃N₂O₃S ([M+H]⁺): 437.1141, found: 437.1128. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 246 nm); *t*_r = 8.33 and 9.01 min.



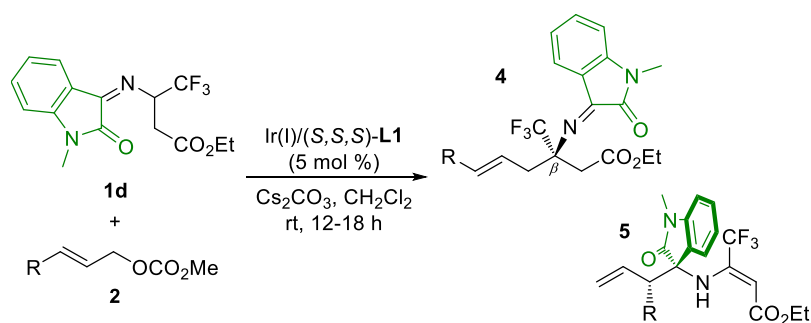
Ethyl (R,E)-5-(furan-2-yl)-2-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-2-(trifluoromethyl)pent-4-enoate:

Yellow oil; 92% yield; $[\alpha]_D^{25} = 87.9$ (*c* 0.88, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.71 (d, *J* = 7.0 Hz, 1H), 7.43 (td, *J* = 7.8, 1.1 Hz, 1H), 7.29 – 7.21 (m, 1H), 7.09 (dd, *J* = 9.8, 5.2 Hz, 1H), 6.76 (d, *J* = 7.8 Hz, 1H), 6.27 (dd, *J* = 3.2, 1.8 Hz, 1H), 6.09 (dd, *J* = 16.7, 2.9 Hz, 3H), 4.35 – 4.15 (m, 2H), 3.55–3.51 (m, 1H), 3.25 – 3.14 (m, 1H), 3.09 (s, 3H), 1.26 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 165.4, 157.6, 156.2, 152.6, 146.5, 141.7, 134.0, 125.0 (q, *J* = 287.4 Hz), 123.5, 123.4, 123.0, 122.2, 121.3, 111.1, 108.6, 107.0, 73.0 (q, *J* = 25.6 Hz), 62.2, 35.6, 25.9, 13.9. ¹⁹F NMR (376 MHz, CDCl₃) δ -75.16 (s). HRMS Calcd. For C₂₁H₂₀F₃N₂O₄ ([M+H]⁺): 421.1370, found: 421.1342. The product was analyzed by HPLC to determine the enantiomeric excess: 86% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 246 nm); *t*_r = 9.17 and 9.84 min.



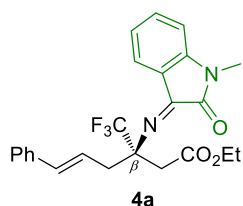
Ethyl (R,E)-2-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-2-(trifluoromethyl)hex-4-enoate:

Yellow oil; 95% yield; $[\alpha]_D^{25} = 95.1$ (c 1.15, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.72 (d, $J = 7.3$ Hz, 1H), 7.45 (t, $J = 7.4$ Hz, 1H), 7.11 (t, $J = 7.5$ Hz, 1H), 6.81 (d, $J = 7.8$ Hz, 1H), 5.45 – 5.26 (m, 2H), 4.34 – 4.14 (m, 2H), 3.33 (dd, $J = 14.7, 6.4$ Hz, 1H), 3.18 (s, 3H), 3.02 (dd, $J = 14.8, 6.3$ Hz, 1H), 1.52 (d, $J = 5.5$ Hz, 2H), 1.31 – 1.20 (m, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 165.68, 157.59, 155.81, 146.43, 133.84, 129.57, 125.1 (q, $J = 287.5$ Hz), 124.87, 123.40, 123.37, 121.36, 108.55, 73.0 (q, $J = 25.4$ Hz), 62.05, 35.28, 25.97, 17.80, 13.90. ^{19}F NMR (376 MHz, CDCl_3) δ -75.15 (s). HRMS Calcd. For $\text{C}_{18}\text{H}_{20}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 369.14213, found: 369.1412. The product was analyzed by HPLC to determine the enantiomeric excess: 86% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 246$ nm); $t_r = 6.07$ and 6.78 min.



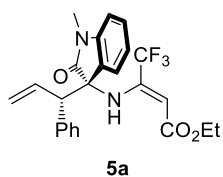
In a 25 mL nitrogen-filled dry Schlenk tube, $[\text{Ir}(\text{COD})\text{Cl}]_2$ (3.3 mg, 0.005 mmol), phosphoramidite ligand (*S,S,S*)-**L1** (5.6 mg, 0.01 mmol), degassed THF (0.5 mL) and degassed propylamine (0.5 mL) were added. After stirring at 50 °C for 30 mins, the reaction was concentrated via rotary evaporation under reduced pressure to give the iridium complex as a pale yellow solid.⁶ Then, **1d** (0.20 mmol), allylic carbonates **2** (0.22 mmol), DBU (0.2 mmol) and dry DCE (2 mL) was added into the nitrogen-refilled Schlenk tube. Once starting material was consumed (monitored by TLC), the reaction mixture was concentrated via rotary

evaporation under reduced pressure, and then purified by chromatography on silica gel (PE / EA = 5:1) to give corresponding products **4** and **5**.



Ethyl (R,E)-3-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-6-phenyl-3-(trifluoromethyl)hex-5-enoate:

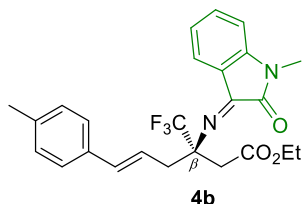
Yellow oil; 37% yield; $[\alpha]_D^{25} = 54.4$ (*c* 1.32, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.65 (d, *J* = 7.4 Hz, 1H), 7.41 (t, *J* = 7.7 Hz, 1H), 7.29 (t, *J* = 8.6 Hz, 4H), 7.20 (t, *J* = 6.8 Hz, 1H), 7.09 (t, *J* = 7.5 Hz, 1H), 6.78 (d, *J* = 7.8 Hz, 1H), 6.45 (d, *J* = 15.7 Hz, 1H), 6.20 – 6.07 (m, 1H), 4.10 – 3.91 (m, 3H), 3.29 – 3.14 (m, 4H), 3.15 – 2.95 (m, 2H), 1.08 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 169.5, 157.8, 155.0, 145.9, 137.1, 134.5, 133.4, 128.5, 127.4, 127.0 (q, *J* = 276.0 Hz), 126.3, 123.5, 123.3, 123.2, 122.2, 108.4, 67.9 (q, *J* = 25.5 Hz), 60.6, 37.4, 35.8, 26.2, 13.8. ¹⁹F NMR (376 MHz, CDCl₃) δ -76.62 (s). HRMS Calcd. For C₂₄H₂₄F₃N₂O₃ ([M+H]⁺): 445.1734, found: 445.1724. The product was analyzed by HPLC to determine the enantiomeric excess: 91% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 244 nm); *t*_r = 8.44 and 10.81 min.



Ethyl (Z)-4,4,4-trifluoro-3-(((S)-1-methyl-2-oxo-3-((S)-1-phenylallyl)indolin-3-yl)amino)but-2-enoate:

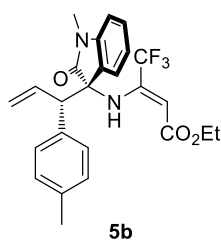
Yellow oil; 54% yield; $[\alpha]_D^{25} = -45.0$ (*c* 3.25, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 8.89 (s, 1H), 7.39 (d, *J* = 7.3 Hz, 1H), 7.34 – 7.24 (m, 1H), 7.15 – 7.04 (m, 2H), 6.99 (t, *J* = 7.5 Hz, 2H), 6.56 (d, *J* = 7.4 Hz, 2H), 6.45 (d, *J* = 7.8 Hz, 1H), 6.41 – 6.29 (m, 1H), 5.61 (dd, *J* = 64.8, 13.5 Hz, 2H), 5.32 (s, 1H), 4.24 (q, *J* = 7.0 Hz, 2H), 3.93 (d, *J* = 10.2 Hz, 1H), 2.57 (s, 3H), 1.31 (t,

$J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 175.2, 168.9, 146.3 (q, $J = 32.9$ Hz), 143.7, 136.1, 132.7, 129.6, 128.9, 128.3, 127.5, 126.5, 124.6, 122.2, 122.1, 119.7 (q, $J = 277.8$ Hz), 107.9, 92.5 (q, $J = 6.4$ Hz), 68.3, 60.1, 59.6, 25.4, 14.3. ^{19}F NMR (376 MHz, CDCl_3) δ -65.78 (s). HRMS Calcd. For $\text{C}_{24}\text{H}_{24}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 445.1734, found: 445.1724. The product was analyzed by HPLC to determine the enantiomeric excess: 98% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 304$ nm); $t_r = 13.91$ and 15.70 min.



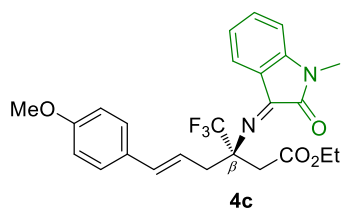
Ethyl (R,E)-3-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-6-(p-tolyl)-3-(trifluoromethyl)hex-5-enoate:

Yellow oil; 35% yield; $[\alpha]_D^{25} = 69.5$ (c 1.07, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.65 (d, $J = 7.2$ Hz, 1H), 7.47 – 7.34 (m, 1H), 7.20 (d, $J = 8.0$ Hz, 2H), 7.09 (dd, $J = 7.4, 6.1$ Hz, 3H), 6.78 (d, $J = 7.8$ Hz, 1H), 6.41 (d, $J = 15.7$ Hz, 1H), 6.18 – 5.97 (m, 1H), 4.14 – 3.83 (m, 3H), 3.29 – 3.14 (m, 4H), 3.16 – 2.96 (m, 2H), 2.31 (s, 3H), 1.07 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 169.6, 157.8, 155.0, 145.9, 137.3, 134.4, 134.3, 133.3, 129.2, 127.1 (q, $J = 282.1$ Hz), 126.2, 123.5, 123.1, 122.2, 108.4, 68.0 (q, $J = 24.9$ Hz), 60.5, 37.4, 35.8, 26.2, 21.2, 13.8. ^{19}F NMR (376 MHz, CDCl_3) δ -76.59 (s). HRMS Calcd. For $\text{C}_{25}\text{H}_{26}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 459.1890, found: 459.1882. The product was analyzed by HPLC to determine the enantiomeric excess: 90% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 244$ nm); $t_r = 8.06$ and 10.40 min.



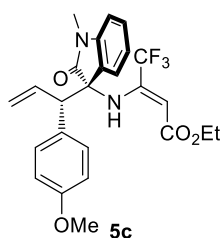
Ethyl (Z)-4,4,4-trifluoro-3-(((S)-1-methyl-2-oxo-3-((S)-1-(p-tolyl)allyl)indolin-3-yl)amino)but-2-enoate:

Yellow oil; 45% yield; $[\alpha]_D^{25} = -48.1$ (c 3.08, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 8.87 (s, 1H), 7.38 (d, $J = 7.3$ Hz, 1H), 7.34 – 7.27 (m, 1H), 7.16 – 7.03 (m, 1H), 6.80 (d, $J = 7.9$ Hz, 2H), 6.46 (dd, $J = 13.0, 7.9$ Hz, 3H), 6.39 – 6.24 (m, 1H), 5.75 – 5.44 (m, 2H), 5.31 (s, 1H), 4.35 – 4.17 (m, 2H), 3.90 (d, $J = 10.2$ Hz, 1H), 2.60 (s, 3H), 2.19 (s, 3H), 1.31 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 175.3, 168.9, 146.3 (q, $J = 32.8$ Hz), 143.7, 137.1, 133.1, 132.9, 129.5, 128.2, 128.1, 127.8 (q, $J = 299.0$ Hz) 126.7, 124.6, 122.1, 121.9, 107.9, 92.4 (q, $J = 6.4$ Hz), 68.3, 60.1, 59.3, 25.5, 21.0, 14.3. ^{19}F NMR (376 MHz, CDCl_3) δ -65.78 (s). HRMS Calcd. For $\text{C}_{25}\text{H}_{26}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 459.1890, found: 459.1879. The product was analyzed by HPLC to determine the enantiomeric excess: 98% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 304$ nm); $t_r = 14.80$ and 16.92 min.



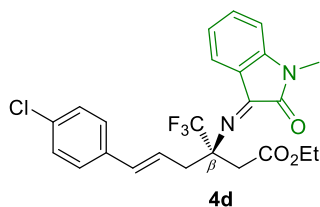
Ethyl (R,E)-6-(4-methoxyphenyl)-3-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-3-(trifluoromethyl)hex-5-enoate:

Yellow oil; 34% yield; $[\alpha]_D^{25} = 113.9$ (c 1.19, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.65 (dd, $J = 7.4, 0.7$ Hz, 1H), 7.40 (td, $J = 7.7, 1.2$ Hz, 1H), 7.25 – 7.21 (m, 2H), 7.08 (td, $J = 7.6, 0.6$ Hz, 1H), 6.91 – 6.70 (m, 3H), 6.38 (d, $J = 15.7$ Hz, 1H), 6.08 – 5.91 (m, 1H), 4.05 – 3.88 (m, 3H), 3.78 (s, 3H), 3.28 – 3.14 (m, 4H), 3.12 – 2.97 (m, 2H), 1.07 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 169.6, 159.1, 157.8, 154.9, 145.9, 134.0, 133.3, 129.9, 127.1 (q, $J = 286.5$ Hz), 127.4, 123.5, 123.1, 122.2, 121.0, 113.9, 108.4, 68.0 (q, $J = 25.0$ Hz), 60.5, 55.3, 37.5, 35.8, 26.2, 13.8. ^{19}F NMR (376 MHz, CDCl_3) δ -76.56 (s). HRMS Calcd. For $\text{C}_{25}\text{H}_{26}\text{F}_3\text{N}_2\text{O}_4$ ($[\text{M}+\text{H}]^+$): 475.1839, found: 475.1827. The product was analyzed by HPLC to determine the enantiomeric excess: 85% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 244$ nm); $t_r = 13.90$ and 19.53 min.



Ethyl (Z)-4,4,4-trifluoro-3-(((S)-3-((S)-1-(4-methoxyphenyl)allyl)-1-methyl-2-oxoindolin-3-yl)amino)but-2-enoate:

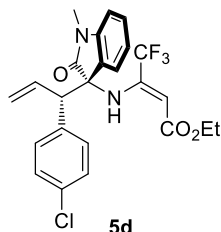
Yellow oil; 57% yield; $[\alpha]_D^{25} = -51.4$ (*c* 1.37, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 8.87 (s, 1H), 7.38 (d, *J* = 7.2 Hz, 1H), 7.35 – 7.29 (m, 1H), 7.16 – 7.05 (m, 1H), 6.66 – 6.42 (m, 5H), 6.42 – 6.21 (m, 1H), 5.78 – 5.44 (m, *J* 2H), 5.31 (s, 1H), 4.30 – 4.16 (m, 2H), 3.89 (d, *J* = 10.2 Hz, 1H), 3.69 (s, 3H), 2.63 (s, 3H), 1.32 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 175.4, 168.9, 158.8, 146.3 (q, *J* = 32.8 Hz), 143.7, 133.0, 129.5, 129.4, 128.2, 126.7, 124.6, 122.1, 121.8, 119.7 (q, *J* = 277.9 Hz), 112.9, 108.0, 92.4 (q, *J* = 6.4 Hz), 68.3, 60.1, 58.8, 55.2, 25.6, 14.3. ¹⁹F NMR (376 MHz, CDCl₃) δ -65.80 (s). HRMS Calcd. For C₂₅H₂₆F₃N₂O₄ ([M+H]⁺): 475.1839, found: 475.1824. The product was analyzed by HPLC to determine the enantiomeric excess: 96% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 304 nm); *t_r* = 18.85 and 23.81 min.



Ethyl (R,E)-6-(4-chlorophenyl)-3-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-3-(trifluoromethyl)hex-5-enoate:

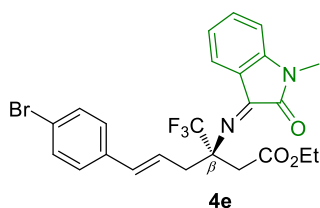
Yellow oil; 38% yield; $[\alpha]_D^{25} = 12.8$ (*c* 0.52, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.70 – 7.61 (m, 1H), 7.41 (td, *J* = 7.7, 1.2 Hz, 1H), 7.30 – 7.17 (m, 4H), 7.13 – 7.03 (m, 1H), 6.78 (d, *J* = 7.8 Hz, 1H), 6.39 (d, *J* = 15.7 Hz, 1H), 6.21 – 6.02 (m, 1H), 4.09 – 3.90 (m, 3H), 3.32 – 3.16 (m, 4H), 3.13 – 2.96 (m, 2H), 1.08 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 169.4, 157.8, 155.1, 145.9, 135.5, 133.4, 133.2, 133.0, 128.6, 127.5, 127.0 (q, *J* = 288.5 Hz), 124.1, 123.5, 123.1, 122.2, 108.5, 67.9 (q, *J* = 25.1 Hz), 60.6, 37.4, 35.8, 26.2, 13.8. ¹⁹F NMR (376 MHz, CDCl₃) δ -76.66 (s). HRMS Calcd. For C₂₄H₂₃ClF₃N₂O₃ ([M+H]⁺): 479.1344, found:

479.1326. The product was analyzed by HPLC to determine the enantiomeric excess: 91% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 244 nm); t_r = 8.62 and 10.73 min.



Ethyl (Z)-3-(((S)-3-((S)-1-(4-chlorophenyl)allyl)-1-methyl-2-oxoindolin-3-yl)amino)-4,4,4-trifluorobut-2-enoate:

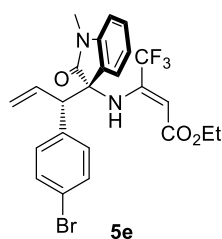
Yellow oil; 52% yield; $[\alpha]_D^{25} = -46.5$ (*c* 1.94, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 8.87 (s, 1H), 7.38 (d, *J* = 7.3 Hz, 1H), 7.35 – 7.28 (m, 1H), 7.13 (t, *J* = 7.5 Hz, 1H), 6.98 (d, *J* = 8.6 Hz, 2H), 6.60 – 6.42 (m, 3H), 6.40 – 6.21 (m, 1H), 5.60 (dd, *J* = 54.3, 13.5 Hz, 2H), 5.33 (s, 1H), 4.23 (q, *J* = 6.8 Hz, 2H), 3.91 (d, *J* = 10.1 Hz, 1H), 2.64 (s, 3H), 1.31 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 175.1, 168.9, 146.2 (q, *J* = 32.9 Hz), 143.6, 134.7, 133.3, 132.2, 129.8, 129.7, 127.6, 126.2, 124.7, 122.6, 122.3, 119.6 (q, *J* = 277.8 Hz), 108.1, 92.8 (q, *J* = 6.4 Hz), 68.0, 60.2, 58.8, 25.5, 14.3. ¹⁹F NMR (376 MHz, CDCl₃) δ -65.86 (s). HRMS Calcd. For C₂₄H₂₃ClF₃N₂O₃ ([M+H]⁺): 479.1344, found: 479.1328. The product was analyzed by HPLC to determine the enantiomeric excess: 98% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 304 nm); t_r = 10.05 and 12.55 min.



Ethyl (R,E)-6-(4-bromophenyl)-3-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-3-(trifluoromethyl)hex-5-enoate:

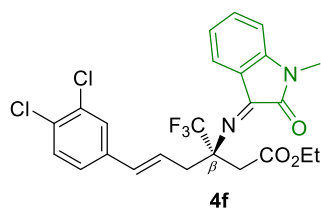
Yellow oil; 35% yield; $[\alpha]_D^{25} = 90.8$ (*c* 0.50, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.65 (d, *J* = 7.3 Hz, 1H), 7.47 – 7.34 (m, 3H), 7.16 (d, *J* = 8.4 Hz, 2H), 7.09 (t, *J* = 7.5 Hz, 1H), 6.79 (d, *J* = 7.8 Hz, 1H), 6.38 (d, *J* = 15.7 Hz, 1H), 6.20 – 6.06 (m, 1H), 4.08 – 3.91 (m, 3H), 3.31 –

3.18 (m, 4H), 3.12 – 2.97 (m, 2H), 1.08 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 169.4, 157.8, 155.1, 145.9, 136.0, 133.5, 133.3, 131.6, 127.8, 127.0 (q, $J = 286.5$ Hz), 124.2, 123.6, 123.2, 122.1, 121.2, 108.5, 67.8 (q, $J = 25.1$ Hz), 60.6, 37.4, 35.8, 26.2, 13.8. ^{19}F NMR (376 MHz, CDCl_3) δ -76.68 (s). HRMS Calcd. For $\text{C}_{24}\text{H}_{23}\text{BrF}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 523.0839, found: 523.0816. The product was analyzed by HPLC to determine the enantiomeric excess: 90% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 244$ nm); $t_r = 9.37$ and 11.65 min.



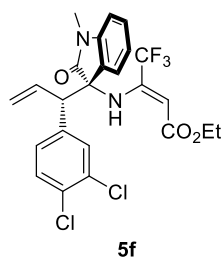
Ethyl (Z)-3-(((S)-3-((S)-1-(4-bromophenyl)allyl)-1-methyl-2-oxindolin-3-yl)amino)-4,4,4-trifluorobut-2-enoate:

Yellow oil; 55% yield; $[\alpha]_D^{25} = -26.0$ (c 0.85, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 8.87 (s, 1H), 7.38 (d, $J = 7.3$ Hz, 1H), 7.35 – 7.29 (m, 1H), 7.21 – 7.09 (m, 3H), 6.47 (dd, $J = 30.6, 8.0$ Hz, 3H), 6.37 – 6.21 (m, 1H), 5.73 – 5.47 (m, 2H), 5.33 (s, 1H), 4.32 – 4.19 (m, 2H), 3.90 (d, $J = 10.1$ Hz, 1H), 2.64 (s, 3H), 1.31 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 175.1, 168.9, 146.2 (q, $J = 32.8$ Hz), 143.6, 135.2, 132.2, 130.6, 130.1, 129.8, 126.2, 124.7, 122.7, 122.3, 121.5, 119.6 (q, $J = 277.5$ Hz), 108.2, 92.9 (q, $J = 6.4$ Hz), 68.0, 60.2, 58.8, 25.5, 14.3. ^{19}F NMR (376 MHz, CDCl_3) δ -65.86 (s). HRMS Calcd. For $\text{C}_{24}\text{H}_{23}\text{BrF}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 523.0839, found: 523.0823. The product was analyzed by HPLC to determine the enantiomeric excess: 97% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 304$ nm); $t_r = 10.78$ and 13.27 min.



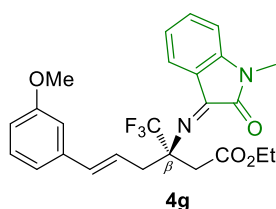
Ethyl (R,E)-6-(3,4-dichlorophenyl)-3-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-3-(trifluoromethyl)hex-5-enoate:

Yellow oil; 34% yield; $[\alpha]_D^{25} = 95.8$ (*c* 1.02, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.58 (d, *J* = 7.3 Hz, 1H), 7.40 – 7.31 (m, 1H), 7.27 (dd, *J* = 14.6, 5.1 Hz, 2H), 7.11 – 6.99 (m, 2H), 6.72 (d, *J* = 7.8 Hz, 1H), 6.27 (d, *J* = 15.7 Hz, 1H), 6.15 – 5.99 (m, 1H), 4.01 – 3.82 (m, 3H), 3.28 – 3.09 (m, 4H), 3.09 – 2.92 (m, 2H), 1.01 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 168.3, 156.7, 154.2, 144.9, 136.1, 132.5, 131.5, 131.0, 130.0, 129.3, 126.9, 125.9 (q, *J* = 286.6 Hz), 124.6, 124.4, 122.6, 122.2, 121.0, 107.5, 66.7 (q, *J* = 25.0 Hz), 59.6, 36.2, 34.7, 25.2, 12.8. ¹⁹F NMR (376 MHz, CDCl₃) δ -76.71 (s). HRMS Calcd. For C₂₄H₂₂Cl₂F₃N₂O₃ ([M+H]⁺): 513.0954, found: 513.0953. The product was analyzed by HPLC to determine the enantiomeric excess: 92% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 244 nm); *t*_r = 9.11 and 11.26 min.



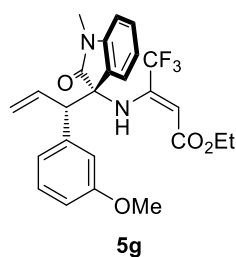
Ethyl (Z)-3-(((S)-3-(((S)-1-(3,4-dichlorophenyl)allyl)-1-methyl-2-oxoindolin-3-yl)amino)-4,4,4-trifluorobut-2-enoate:

Yellow oil; 48% yield; $[\alpha]_D^{25} = -63.2$ (*c* 2.79, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 8.86 (s, 1H), 7.45 – 7.30 (m, 2H), 7.23 – 7.05 (m, 2H), 6.67 – 6.46 (m, 3H), 6.36 – 6.17 (m, 1H), 5.61 (dd, *J* = 47.5, 13.5 Hz, 2H), 5.34 (s, 1H), 4.29 – 4.15 (m, 2H), 3.89 (d, *J* = 10.1 Hz, 1H), 2.69 (s, 3H), 1.31 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 174.96, 168.88, 146.09 (q, *J* = 32.9 Hz), 143.51, 136.43, 131.66, 131.47, 131.46, 130.05, 129.33, 128.09, 125.97, 125.96, 124.65, 123.10, 122.48, 119.61 (q, *J* = 277.6 Hz), 108.20, 93.12 (q, *J* = 6.4 Hz), 67.86, 60.25, 58.49, 25.60, 14.29. ¹⁹F NMR (376 MHz, CDCl₃) δ -65.89 (s). HRMS Calcd. For C₂₄H₂₂Cl₂F₃N₂O₃ ([M+H]⁺): 513.0954, found: 513.0941. The product was analyzed by HPLC to determine the enantiomeric excess: 87% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 304 nm); *t*_r = 7.39 and 13.24 min.



Ethyl (R,E)-6-(3-methoxyphenyl)-3-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-3-(trifluoromethyl)hex-5-enoate:

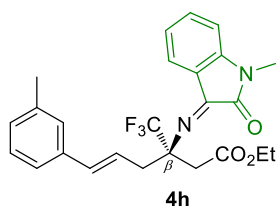
Yellow oil; 32% yield; $[\alpha]_D^{25} = 80.4$ (*c* 1.44, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.65 (dd, *J* = 7.4, 0.7 Hz, 1H), 7.41 (td, *J* = 7.7, 1.2 Hz, 1H), 7.18 (t, *J* = 7.9 Hz, 1H), 7.08 (td, *J* = 7.6, 0.7 Hz, 1H), 6.90 (d, *J* = 7.6 Hz, 1H), 6.86 – 6.81 (m, 1H), 6.81 – 6.72 (m, 2H), 6.41 (d, *J* = 15.7 Hz, 1H), 6.22 – 6.03 (m, 1H), 4.06 – 3.91 (m, 3H), 3.79 (s, 3H), 3.31 – 3.16 (m, 4H), 3.16 – 2.99 (m, 2H), 1.08 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 169.5, 159.7, 157.8, 155.0, 145.9, 138.5, 134.4, 133.4, 129.5, 127.0 (q, *J* = 286.8 Hz), 123.7, 123.5, 123.2, 122.2, 118.9, 113.1, 111.6, 108.5, 67.9 (q, *J* = 25.1 Hz), 60.6, 55.2, 37.4, 35.8, 26.2, 13.8. ¹⁹F NMR (376 MHz, CDCl₃) δ -76.63 (s). HRMS Calcd. For C₂₅H₂₆F₃N₂O₄ ([M+H]⁺): 475.1839, found: 475.1825. The product was analyzed by HPLC to determine the enantiomeric excess: 89% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 244 nm); *t*_r = 14.14 and 24.37 min.



Ethyl (Z)-4,4,4-trifluoro-3-(((S)-3-((S)-1-(3-methoxyphenyl)allyl)-1-methyl-2-oxoindolin-3-yl)amino)but-2-enoate:

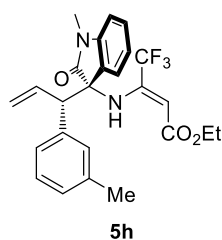
Yellow oil; 47% yield; $[\alpha]_D^{25} = -60.8$ (*c* 3.39, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 8.88 (s, 1H), 7.39 (d, *J* = 7.3 Hz, 1H), 7.37 – 7.28 (m, 1H), 7.13 (t, *J* = 7.4 Hz, 1H), 6.95 (t, *J* = 7.9 Hz, 1H), 6.64 (dd, *J* = 8.2, 2.2 Hz, 1H), 6.49 (d, *J* = 7.8 Hz, 1H), 6.42 – 6.25 (m, 2H), 5.96 (s, 1H), 5.82 – 5.48 (m, 2H), 5.32 (s, 1H), 4.24 (q, *J* = 7.1 Hz, 2H), 3.92 (d, *J* = 10.2 Hz, 1H), 3.49 (s, 3H), 2.62 (s, 3H), 1.31 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 175.2, 168.9, 158.6,

146.3 (q, $J = 32.9$ Hz), 143.9, 137.5, 132.6, 129.6, 128.5, 126.7, 124.6, 122.3, 122.1, 121.2, 119.7 (q, $J = 277.6$ Hz), 114.3, 112.3, 107.9, 92.6 (q, $J = 6.5$ Hz), 68.2, 60.2, 59.5, 54.9, 25.5, 14.3. ^{19}F NMR (376 MHz, CDCl_3) δ -65.81 (s). HRMS Calcd. For $\text{C}_{25}\text{H}_{26}\text{F}_3\text{N}_2\text{O}_4$ ($[\text{M}+\text{H}]^+$): 475.1839, found: 475.1827. The product was analyzed by HPLC to determine the enantiomeric excess: 91% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 304$ nm); $t_r = 4.29$ and 4.89 min.

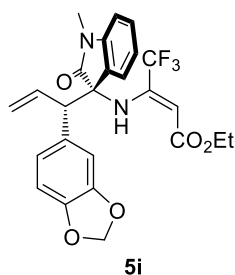


Ethyl (R,E)-3-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-6-(*m*-tolyl)-3-(trifluoromethyl)hex-5-enoate:

Yellow oil; 39% yield; $[\alpha]_D^{25} = 76.5$ (c 0.95, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.65 (d, $J = 7.4$ Hz, 1H), 7.50 – 7.34 (m, 1H), 7.21 – 7.05 (m, 4H), 7.02 (d, $J = 7.3$ Hz, 1H), 6.77 (d, $J = 7.8$ Hz, 1H), 6.42 (d, $J = 15.7$ Hz, 1H), 6.24 – 6.07 (m, 1H), 4.11 – 3.91 (m, 3H), 3.33 – 3.15 (m, 4H), 3.15 – 2.95 (m, 2H), 2.31 (s, 3H), 1.07 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 169.6, 157.8, 155.0, 145.9, 138.0, 137.0, 134.7, 133.4, 128.4, 128.3, 127.1 (q, $J = 286.4$ Hz), 127.0, 123.5, 123.5, 123.1, 123.0, 122.2, 108.4, 68.0 (q, $J = 24.9$ Hz), 60.6, 37.5, 35.8, 26.2, 21.4, 13.8. ^{19}F NMR (376 MHz, CDCl_3) δ -76.57 (s). HRMS Calcd. For $\text{C}_{25}\text{H}_{26}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 459.1890, found: 459.1876. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 244$ nm); $t_r = 7.538$ and 9.14 min.

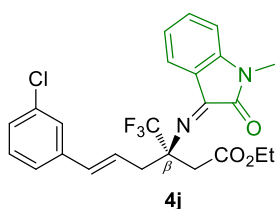


Ethyl (Z)-4,4,4-trifluoro-3-(((S)-1-methyl-2-oxo-3-((S)-1-(*m*-tolyl)allyl)indolin-3-yl)amino)but-2-enoate:



Ethyl (Z)-3-(((S)-3-((S)-1-(benzo[d][1,3]dioxol-5-yl)allyl)-1-methyl-2-oxoindolin-3-yl)amino)-4,4,4-trifluorobut-2-enoate:

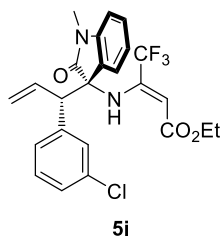
Yellow oil; 53% yield; $[\alpha]_D^{25} = -61.1$ (*c* 2.19, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 8.85 (s, 1H), 7.43 – 7.30 (m, 2H), 7.11 (t, *J* = 7.3 Hz, 1H), 6.52 (dd, *J* = 20.5, 7.9 Hz, 2H), 6.35 – 6.12 (m, 2H), 5.95 (s, 1H), 5.81 (dd, *J* = 8.9, 1.2 Hz, 2H), 5.70 – 5.43 (m, 2H), 5.31 (s, 1H), 4.33 – 4.13 (m, 2H), 3.86 (d, *J* = 10.1 Hz, 1H), 2.71 (s, 3H), 1.31 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 175.3, 168.9, 146.7, 146.6, 146.2 (q, *J* = 32.9 Hz), 143.8, 132.8, 129.9, 129.7, 126.6, 124.6, 122.2, 122.0, 119.7 (q, *J* = 277.8 Hz), 108.4, 107.9, 107.4, 100.8, 92.6 (q, *J* = 6.4 Hz), 68.1, 60.1, 59.1, 25.7, 14.3. ¹⁹F NMR (376 MHz, CDCl₃) δ -65.82 (s). HRMS Calcd. For C₂₅H₂₄F₃N₂O₅ ([M+H]⁺): 489.1632, found: 489.1623. The product was analyzed by HPLC to determine the enantiomeric excess: 95% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 304 nm); t_r = 26.93 and 30.49 min.



Ethyl (R,E)-6-(3-chlorophenyl)-3-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-3-(trifluoromethyl)hex-5-enoate:

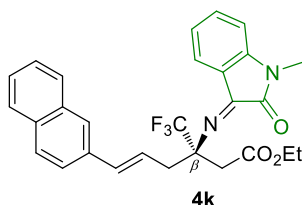
Yellow oil; 43 % yield; $[\alpha]_D^{25} = 118.6$ (*c* 2.03, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.65 (d, *J* = 7.0 Hz, 1H), 7.49 – 7.35 (m, 1H), 7.27 (s, 1H), 7.24 – 7.14 (m, 3H), 7.09 (t, *J* = 7.4 Hz, 1H), 6.79 (d, *J* = 7.8 Hz, 1H), 6.38 (d, *J* = 15.7 Hz, 1H), 6.24 – 6.09 (m, 1H), 4.10 – 3.89 (m, 3H), 3.35 – 3.17 (m, 4H), 3.15 – 2.97 (m, 2H), 1.08 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 169.4, 157.8, 155.2, 145.9, 138.9, 134.4, 133.5, 133.1, 129.7, 127.4, 127.0 (q, *J* = 286.5 Hz), 126.2, 125.0, 124.5, 123.6, 123.2, 122.1, 108.5, 67.8 (q, *J* = 25.1 Hz), 60.6, 37.3, 35.8, 26.2,

13.8. ^{19}F NMR (376 MHz, CDCl_3) δ -76.67 (s). HRMS Calcd. For $\text{C}_{24}\text{H}_{23}\text{ClF}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 479.1344, found: 479.1334. The product was analyzed by HPLC to determine the enantiomeric excess: 93% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 244 nm); t_r = 8.11 and 9.89 min.



Ethyl (*Z*)-3-(((*S*)-3-((*S*)-1-(3-chlorophenyl)allyl)-1-methyl-2-oxindolin-3-yl)amino)-4,4,4-trifluorobut-2-enoate:

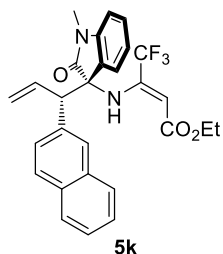
Yellow oil; 56% yield; $[\alpha]_D^{25} = -100.3$ (*c* 2.63, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 8.87 (s, 1H), 7.47 – 7.29 (m, 2H), 7.21 – 6.92 (m, 3H), 6.65 – 6.49 (m, 2H), 6.40 (s, 1H), 6.38 – 6.20 (m, 1H), 5.81 – 5.46 (m, 2H), 5.33 (s, 1H), 4.38 – 4.17 (m, 2H), 3.90 (d, J = 10.2 Hz, 1H), 2.64 (s, 3H), 1.31 (t, J = 7.1 Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 175.0, 168.9, 146.2 (q, J = 32.8 Hz), 143.6, 138.1, 133.2, 132.0, 129.9, 128.7, 128.2, 127.6, 127.0, 126.2, 124.6, 122.8, 122.3, 119.6 (q, J = 277.6 Hz), 108.02, 92.9 (q, J = 6.3 Hz), 68.1, 60.2, 59.1, 25.5, 14.3. ^{19}F NMR (376 MHz, CDCl_3) δ -65.82 (s). HRMS Calcd. For $\text{C}_{24}\text{H}_{23}\text{ClF}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 479.1344, found: 479.1334. The product was analyzed by HPLC to determine the enantiomeric excess: 97% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 304 nm); t_r = 11.26 and 15.37 min.



Ethyl (*R,E*)-3-(((*Z*)-1-methyl-2-oxindolin-3-ylidene)amino)-6-(naphthalen-2-yl)-3-(trifluoromethyl)hex-5-enoate:

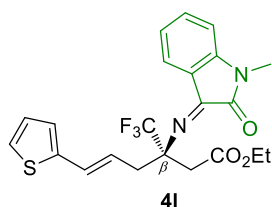
Yellow oil; 35% yield; $[\alpha]_D^{25} = 65.6$ (*c* 0.50, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.81 – 7.70 (m, 3H), 7.70 – 7.62 (m, 2H), 7.52 (dd, J = 8.5, 1.2 Hz, 1H), 7.48 – 7.36 (m, 3H), 7.08 (t,

$J = 7.5$ Hz, 1H), 6.76 (d, $J = 7.8$ Hz, 1H), 6.60 (d, $J = 15.7$ Hz, 1H), 6.34 – 6.19 (m, 1H), 4.13 – 3.93 (m, 3H), 3.30 (dd, $J = 14.4, 7.0$ Hz, 1H), 3.18 (s, 3H), 3.22 – 3.02 (m, 2H), 1.08 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 169.6, 157.8, 155.1, 145.9, 134.7, 134.5, 133.5, 133.4, 132.9, 128.1, 128.0, 127.1 (q, $J = 286.4$ Hz), 127.6, 126.2, 126.0, 125.8, 123.7, 123.6, 123.5, 123.2, 122.2, 108.5, 68.0 (q, $J = 25.1$ Hz), 60.6, 37.6, 35.8, 26.2, 13.9. ^{19}F NMR (376 MHz, CDCl_3) δ -76.60 (s). HRMS Calcd. For $\text{C}_{28}\text{H}_{26}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 495.1890, found: 495.1882. The product was analyzed by HPLC to determine the enantiomeric excess: 90% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 244$ nm); $t_r = 11.63$ and 15.59 min.



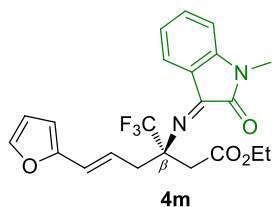
Ethyl (Z)-4,4,4-trifluoro-3-(((S)-1-methyl-3-((S)-1-(naphthalen-2-yl)allyl)-2-oxindolin-3-yl)amino)but-2-enoate:

Yellow oil; 45% yield; $[\alpha]_D^{25} = -32.3$ (*c* 3.60, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 8.96 (s, 1H), 7.74 – 7.60 (m, 1H), 7.57 – 7.43 (m, 3H), 7.41 – 7.33 (m, 2H), 7.32 – 7.26 (m, 1H), 7.16 (t, $J = 7.3$ Hz, 1H), 7.01 (s, 1H), 6.68 (d, $J = 8.3$ Hz, 1H), 6.54 – 6.39 (m, 1H), 6.33 (d, $J = 7.7$ Hz, 1H), 5.81 – 5.47 (m, 2H), 5.35 (s, 1H), 4.35 – 4.18 (m, 2H), 4.11 (d, $J = 10.1$ Hz, 1H), 2.41 (s, 3H), 1.32 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 175.3, 168.9, 146.3 (q, $J = 32.8$ Hz), 143.7, 133.6, 132.8, 132.7, 132.5, 129.6, 127.9, 127.6, 127.3, 126.8, 126.6, 126.3, 125.9, 125.8, 124.7, 122.3, 122.2, 119.7 (q, $J = 277.8$ Hz), 108.0, 92.7 (q, $J = 6.3$ Hz), 68.3, 60.2, 59.7, 25.4, 14.3. ^{19}F NMR (376 MHz, CDCl_3) δ -65.77 (s). HRMS Calcd. For $\text{C}_{28}\text{H}_{26}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 495.1890, found: 495.1877. The product was analyzed by HPLC to determine the enantiomeric excess: 97% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 304$ nm); $t_r = 17.95$ and 21.08 min.



Ethyl (R,E)-3-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-6-(thiophen-2-yl)-3-(trifluoromethyl)hex-5-enoate:

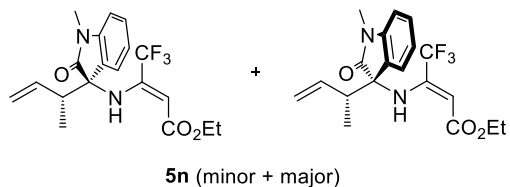
Yellow oil; 90% yield; $[\alpha]_D^{25} = 170.6$ (*c* 3.27, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.65 (dd, *J* = 7.4, 0.7 Hz, 1H), 7.41 (td, *J* = 7.7, 1.3 Hz, 1H), 7.13 – 7.02 (m, 2H), 6.90 (dt, *J* = 12.4, 3.4 Hz, 2H), 6.78 (d, *J* = 7.8 Hz, 1H), 6.58 (d, *J* = 15.5 Hz, 1H), 5.97 (ddd, *J* = 15.4, 8.2, 1.1 Hz, 1H), 4.05 – 3.93 (m, 3H), 3.27 – 3.14 (m, 4H), 3.11 – 2.97 (m, 2H), 1.07 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 169.5, 157.8, 155.1, 145.9, 142.0, 133.4, 127.7, 127.2, 127.0 (q, *J* = 286.2 Hz), 125.3, 124.1, 123.5, 123.2, 122.9, 122.2, 108.5, 67.9 (q, *J* = 25.0 Hz), 60.6, 37.3, 35.7, 26.2, 13.8. ¹⁹F NMR (376 MHz, CDCl₃) δ -76.68 (s). HRMS Calcd. For C₂₂H₂₂F₃N₂O₃S ([M+H]⁺): 451.1298, found: 459.1285. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 244 nm); *t_r* = 9.26 and 12.61 min.



Ethyl (R,E)-6-(furan-2-yl)-3-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-3-(trifluoromethyl)hex-5-enoate:

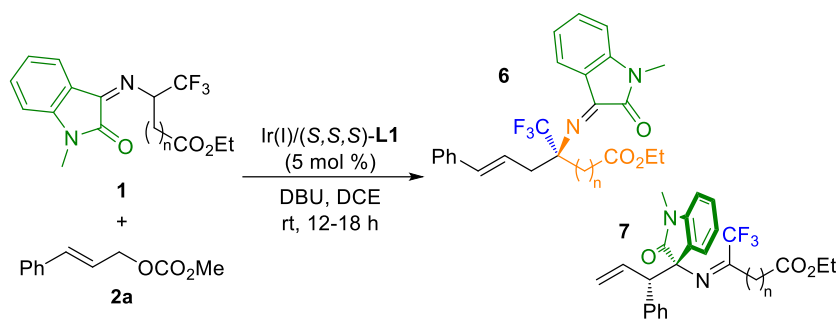
Yellow oil; 81% yield; $[\alpha]_D^{25} = 35.9$ (*c* 2.29, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.65 (dd, *J* = 7.4, 0.7 Hz, 1H), 7.41 (td, *J* = 7.7, 1.3 Hz, 1H), 7.29 (d, *J* = 1.5 Hz, 1H), 7.08 (td, *J* = 7.6, 0.8 Hz, 1H), 6.79 (d, *J* = 7.8 Hz, 1H), 6.36 – 6.30 (m, 2H), 6.15 (d, *J* = 3.2 Hz, 1H), 6.07 (dt, *J* = 14.8, 7.2 Hz, 1H), 4.06 – 3.91 (m, 3H), 3.31 – 3.17 (m, 4H), 3.12 – 2.97 (m, 2H), 1.07 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 169.5, 157.7, 155.0, 152.5, 146.0, 141.8, 133.4, 127.0 (q, *J* = 286.4 Hz), 123.5, 123.2, 122.8, 122.1, 121.9, 111.1, 108.4, 107.4, 67.8 (q, *J* = 25.0 Hz), 60.5, 37.3, 35.7, 26.2, 13.8. ¹⁹F NMR (376 MHz, CDCl₃) δ -76.57 (s). HRMS Calcd. For

$C_{22}H_{22}F_3N_2O_4$ ($[M+H]^+$): 435.1526, found: 435.1516. The product was analyzed by HPLC to determine the enantiomeric excess: 85% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 244 nm); t_r = 9.39 and 14.25 min.

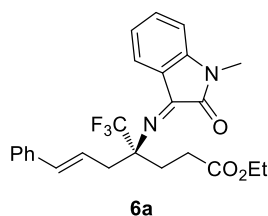


Ethyl (Z)-3-(((R/S)-3-((R)-but-3-en-2-yl)-1-methyl-2-oxoindolin-3-yl)amino)-4,4,4-trifluorobut-2-enoate:

Yellow oil; 88% yield; $[\alpha]_D^{25} = -31.0$ (*c* 2.45, CH_2Cl_2). Minor: 1H NMR (400 MHz, $CDCl_3$) δ 8.87 (s, 1H), 7.38 – 7.30 (m, 1H), 7.20 (dd, $J = 6.7, 4.0$ Hz, 1H), 7.11 – 7.03 (m, 1H), 6.81 (d, $J = 7.9$ Hz, 1H), 5.54 – 5.05 (m, 4H), 4.28 – 4.14 (m, 2H), 3.15 (s, 3H), 2.95 – 2.75 (m, 1H), 1.30 (t, $J = 6.8$, 3H), 1.12 (d, $J = 6.8$ Hz, 3H). ^{13}C NMR (101 MHz, $CDCl_3$) δ 175.9, 169.2, 146.9 (q, $J = 33.0$ Hz), 143.7, 135.7, 129.4, 127.7, 124.2, 122.4, 119.6 (q, $J = 277.8$ Hz), 118.8, 107.9, 92.2 (q, $J = 6.5$ Hz), 67.1, 60.2, 48.6, 26.0, 14.4, 14.2. ^{19}F NMR (376 MHz, $CDCl_3$) δ -65.83 (s). Major: 1H NMR (400 MHz, $CDCl_3$) δ 8.84 (s, 1H), 7.37 – 7.30 (m, 1H), 7.24 – 7.17 (m, 1H), 7.10 – 7.03 (m, 1H), 6.84 (d, $J = 7.8$ Hz, 1H), 5.93 – 5.77 (m, 1H), 5.56 – 5.03 (m, 3H), 4.30 – 4.12 (m, 2H), 3.20 (s, 3H), 2.94 – 2.76 (m, 1H), 1.29 (t, $J = 7.2$ Hz, 3H), 0.74 (d, $J = 6.7$ Hz, 3H). ^{13}C NMR (101 MHz, $CDCl_3$) δ 176.3, 168.9, 146.4 (q, $J = 32.9$ Hz), 143.8, 135.4, 129.4, 127.0, 124.7, 122.4, 120.1, 119.6 (q, $J = 277.8$ Hz), 108.0, 92.2 (q, $J = 6.5$ Hz), 67.0, 60.1, 47.9, 26.1, 14.4, 14.3. ^{19}F NMR (376 MHz, $CDCl_3$) δ -66.05 (s). HRMS Calcd. For $C_{19}H_{22}F_3N_2O_3$ ($[M+H]^+$): 383.1577, found: 383.1563. The product was analyzed by HPLC to determine the enantiomeric excess: Major: 89% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 304 nm); t_r = 7.26 and 10.79 min; Minor: 81% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 304 nm); t_r = 6.25 and 12.00 min.



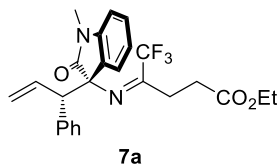
In a 25 mL nitrogen-filled dry Schlenk tube, $[\text{Ir}(\text{COD})\text{Cl}]_2$ (3.3 mg, 0.005 mmol), phosphoramidite ligand (*S,S,S*)-**L1** (5.6 mg, 0.01 mmol), degassed THF (0.5 mL) and degassed propylamine (0.5 mL) were added. After stirring at 50 °C for 30 mins, the reaction was concentrated via rotary evaporation under reduced pressure to give the iridium complex as a pale yellow solid⁶. Then, **1** (0.20 mmol), cinnamyl carbonate **2a** (0.22 mmol), DBU (0.2 mmol) and dry DCE (2 mL) was added into the nitrogen-refilled Schlenk tube. Once starting material was consumed (monitored by TLC), the reaction mixture was concentrated via rotary evaporation under reduced pressure, and then purified by chromatography on silica gel (PE / EA = 5:1) to give corresponding products **6** and **7**.



Ethyl (S,E)-4-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-7-phenyl-4-(trifluoromethyl)hept-6-enoate:

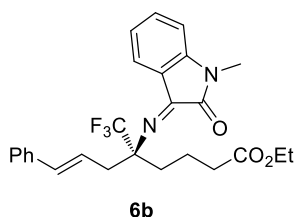
Yellow oil; 44% yield; $[\alpha]^{25}_{\text{D}} = 179.2$ (*c* 0.61, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.61 (d, $J = 7.3$ Hz, 1H), 7.41 (td, $J = 7.7, 1.0$ Hz, 1H), 7.29 – 7.21 (m, 4H), 7.20 – 7.13 (m, 1H), 7.08 (t, $J = 7.4$ Hz, 1H), 6.77 (d, $J = 7.8$ Hz, 1H), 6.39 (d, $J = 15.7$ Hz, 1H), 6.19 – 6.03 (m, 1H), 4.11 – 3.99 (m, 2H), 3.32 (dd, $J = 14.5, 7.6$ Hz, 1H), 3.20 (s, 3H), 3.15 – 2.98 (m, 2H), 2.57 – 2.40 (m, 2H), 2.32 – 2.17 (m, 1H), 1.19 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 172.8, 157.2, 154.5, 146.0, 137.3, 133.9, 133.4, 128.4, 127.2, 126.2, 126.1 (q, $J = 284.3$ Hz), 124.2, 123.4, 122.9, 122.1, 108.4, 68.9 (q, $J = 23.9$ Hz), 60.5, 37.0, 29.4, 27.8, 26.2, 14.1. ^{19}F

NMR (376 MHz, CDCl₃) δ -74.82 (s). HRMS Calcd. For C₂₅H₂₆F₃N₂O₃ ([M+H]⁺): 459.1890, found: 459.1879. The product was analyzed by HPLC to determine the enantiomeric excess: 90% ee (Chiralpak ID-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 244 nm); t_r = 9.98 and 12.34 min.



Ethyl (Z)-5,5,5-trifluoro-4-(((S)-1-methyl-2-oxo-3-((S)-1-phenylallyl)indolin-3-yl)imino)pentanoate:

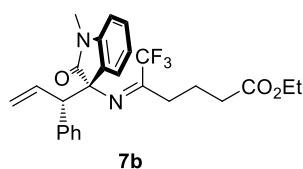
Yellow oil; 35% yield; $[\alpha]_D^{25} = 47.5$ (*c* 1.03, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.32 (td, $J = 7.6, 1.6$ Hz, 1H), 7.20 – 6.95 (m, 5H), 6.78 – 6.69 (m, 2H), 6.65 (d, $J = 7.8$ Hz, 1H), 6.63 – 6.53 (m, 1H), 5.41 – 5.07 (m, 2H), 4.07 (d, $J = 6.9$ Hz, 1H), 3.99 (q, $J = 7.1$ Hz, 2H), 2.76 (s, 3H), 2.45 – 2.27 (m, 1H), 2.11 (dd, $J = 9.5, 7.2$ Hz, 2H), 2.02 – 1.88 (m, 1H), 1.16 (t, $J = 7.1$ Hz, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 175.4, 171.2, 160.5 (q, $J = 32.6$ Hz), 143.2, 136.7, 135.4, 129.7, 129.5, 128.9, 127.5, 127.2, 124.7, 122.8, 119.5 (q, $J = 281.6$ Hz), 119.3, 108.5, 72.1, 60.8, 58.0, 28.6, 25.9, 25.8, 14.1. ¹⁹F NMR (376 MHz, CDCl₃) δ -71.32 (s). HRMS Calcd. For C₂₅H₂₆F₃N₂O₃ ([M+H]⁺): 459.1890, found: 459.1876. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 304 nm); t_r = 6.29 and 7.58 min.



Ethyl (S,E)-5-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-8-phenyl-5-(trifluoromethyl)oct-7-enoate:

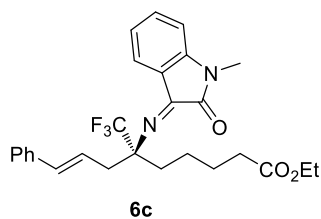
Yellow oil; 45% yield; $[\alpha]_D^{25} = 31.7$ (*c* 0.57, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.62 (d, $J = 7.2$ Hz, 1H), 7.40 (dt, $J = 7.8, 3.9$ Hz, 1H), 7.32 – 7.21 (m, 4H), 7.18 (dd, $J = 6.1, 2.4$ Hz,

1H), 7.08 (t, $J = 7.5$ Hz, 1H), 6.77 (d, $J = 7.8$ Hz, 1H), 6.38 (d, $J = 15.7$ Hz, 1H), 6.20 – 6.02 (m, 1H), 4.16 – 4.01 (m, 2H), 3.28 (dd, $J = 14.5, 7.5$ Hz, 1H), 3.19 (s, 3H), 3.07 (dd, $J = 14.5, 7.5$ Hz, 1H), 2.67 (t, $J = 11.5$ Hz, 1H), 2.31 – 2.18 (m, 2H), 2.18 – 2.08 (m, 1H), 1.90 – 1.72 (m, 1H), 1.63 – 1.45 (m, 1H), 1.21 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 173.2, 157.2, 153.9, 145.8, 137.4, 133.7, 133.2, 128.4, 127.9 (q, $J = 287.1$ Hz), 127.2, 126.2, 124.5, 123.4, 122.9, 122.2, 108.4, 69.5 (q, $J = 24.2$ Hz), 58.3, 37.1, 34.6, 32.5, 26.2, 19.8, 8.2. ^{19}F NMR (376 MHz, CDCl_3) δ -74.64 (s). HRMS Calcd. For $\text{C}_{26}\text{H}_{28}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 473.2047, found: 473.2038. The product was analyzed by HPLC to determine the enantiomeric excess: 93% ee (Chiralpak AS-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 250$ nm); $t_r = 6.80$ and 9.42 min.



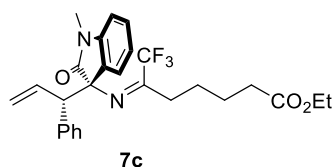
Ethyl (Z)-6,6,6-trifluoro-5-(((S)-1-methyl-2-oxo-3-((S)-1-phenylallyl)indolin-3-yl)imino)hexanoate:

Yellow oil; 37% yield; $[\alpha]_D^{25} = 28.0$ (c 4.56, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.37 – 7.28 (m, 1H), 7.20 – 6.97 (m, 5H), 6.76 – 6.68 (m, 2H), 6.65 (d, $J = 7.8$ Hz, 1H), 6.62 – 6.51 (m, 1H), 5.24 (ddt, $J = 73.7, 17.2, 1.5$ Hz, 2H), 4.08 (d, $J = 6.8$ Hz, 1H), 4.05 – 3.94 (m, 2H), 2.76 (s, 3H), 1.98 – 1.75 (m, 4H), 1.73 – 1.55 (m, 2H), 1.17 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 175.2, 172.0, 161.6 (q, $J = 32.3$ Hz), 143.1, 136.8, 135.4, 129.6, 129.5, 129.1, 127.5, 127.2, 124.8, 122.7, 119.5 (q, $J = 282.1$ Hz), 119.3, 108.3, 72.1, 60.4, 58.3, 34.0, 30.6, 25.7, 20.0, 14.1. ^{19}F NMR (376 MHz, CDCl_3) δ -70.84 (s). HRMS Calcd. For $\text{C}_{26}\text{H}_{28}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 473.2047, found: 473.2037. The product was analyzed by HPLC to determine the enantiomeric excess: 95% ee (Chiralpak AS-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 210$ nm); $t_r = 4.37$ and 4.70 min.



Ethyl (S,E)-6-(((Z)-1-methyl-2-oxoindolin-3-ylidene)amino)-9-phenyl-6-(trifluoromethyl)non-8-enoate:

Yellow oil; 44% yield; $[\alpha]^{25}_D = 78.8$ (c 1.09, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.62 (d, $J = 7.0$ Hz, 1H), 7.40 (td, $J = 7.7, 0.9$ Hz, 1H), 7.26 (dd, $J = 19.2, 4.9$ Hz, 4H), 7.20 – 7.13 (m, 1H), 7.08 (t, $J = 7.5$ Hz, 1H), 6.77 (d, $J = 7.8$ Hz, 1H), 6.38 (d, $J = 15.7$ Hz, 1H), 6.20 – 6.02 (m, 1H), 4.05 (q, $J = 7.1$ Hz, 2H), 3.35 – 3.24 (m, 1H), 3.20 (s, 3H), 3.12 – 3.02 (m, 1H), 2.71 – 2.57 (m, 1H), 2.24 (t, $J = 7.4$ Hz, 2H), 2.20 – 2.04 (m, 1H), 1.62 – 1.45 (m, 4H), 1.19 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 173.5, 157.2, 153.7, 145.8, 137.4, 133.6, 133.2, 128.4, 127.9 (q, $J = 286.8$ Hz), 127.2, 126.2, 124.6, 123.4, 122.9, 122.2, 108.4, 69.6 (q, $J = 23.9$ Hz), 60.2, 37.1, 34.1, 32.8, 26.2, 25.5, 23.7, 14.2. ^{19}F NMR (376 MHz, CDCl_3) δ -74.65 (s). HRMS Calcd. For $\text{C}_{27}\text{H}_{30}\text{F}_3\text{N}_2\text{O}_3$ ($[\text{M}+\text{H}]^+$): 487.2203, found: 487.2193. The product was analyzed by HPLC to determine the enantiomeric excess: 90% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 254$ nm); $t_r = 8.52$ and 9.34 min.

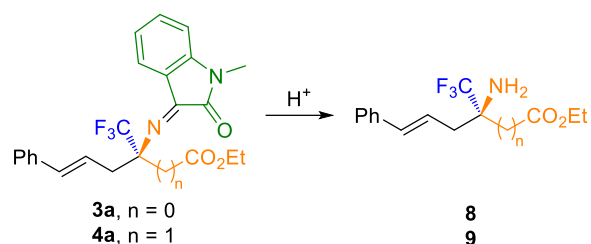


Ethyl (Z)-7,7,7-trifluoro-6-(((S)-1-methyl-2-oxo-3-((S)-1-phenylallyl)indolin-3-yl)imino)heptanoate:

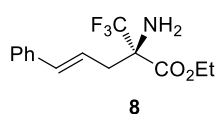
Yellow oil; 36% yield; $[\alpha]^{25}_D = 31.9$ (c 1.61, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.33 (td, $J = 7.8, 1.8$ Hz, 1H), 7.19 – 6.96 (m, 5H), 6.78 – 6.50 (m, 4H), 5.38 – 5.07 (m, 2H), 4.12 – 3.96 (m, 3H), 2.76 (s, 3H), 1.97 (t, $J = 7.6$ Hz, 2H), 1.91 – 1.69 (m, 2H), 1.44 – 1.02 (m, 5H), 0.98 – 0.72 (m, 2H). ^{13}C NMR (101 MHz, CDCl_3) δ 175.2, 172.9, 161.6 (q, $J = 32.1$ Hz), 143.1, 136.8, 135.4, 129.6, 129.5, 129.2, 127.5, 127.2, 124.9, 122.7, 119.5 (q, $J = 283.2$ Hz), 119.3, 108.2, 72.1, 60.3, 58.3, 33.5, 31.1, 25.7, 25.2, 24.1, 14.2. ^{19}F NMR (376 MHz, CDCl_3) δ -70.86

(s). HRMS Calcd. For $C_{27}H_{30}F_3N_2O_3$ ($[M+H]^+$): 487.2203, found: 487.2193. The product was analyzed by HPLC to determine the enantiomeric excess: 97% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 220 nm); t_r = 4.92 and 7.21 min.

5. Synthetic transformations

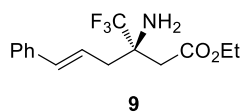


To a 10 mL vial, **3a** or **4a** (0.4 mmol) was diluted in 1 ml MeOH, then $NH_2OH \cdot OAc$ (0.5 mmol) was added. After stirring for 3 hours, the solvent was removed by rotary evaporation, **8** or **9** were obtained by chromatography on silica gel (PE / EA = 20 : 1) as colorless oil.



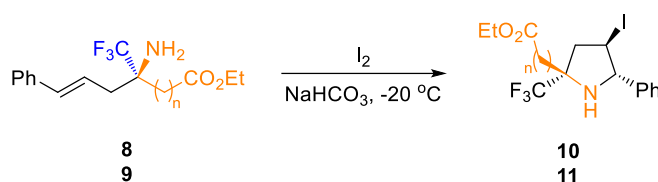
Ethyl (*S,E*)-2-amino-5-phenyl-2-(trifluoromethyl)pent-4-enoate:

Colorless oil; 80% yield; $[\alpha]_D^{25} = 11.3$ (c 3.80, CH_2Cl_2). 1H NMR (400 MHz, $CDCl_3$) δ 7.49 – 7.05 (m, 5H), 6.56 (d, $J = 15.8$ Hz, 1H), 6.15 – 5.96 (m, 1H), 4.31 (q, $J = 7.1$ Hz, 2H), 2.98 (dd, $J = 13.8, 7.1$ Hz, 1H), 2.65 (dd, $J = 13.8, 7.8$ Hz, 1H), 1.94 (s, 2H), 1.32 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, $CDCl_3$) δ 168.9, 136.4, 136.2, 128.6, 127.9, 126.4, 124.9 (q, $J = 286.5$ Hz), 121.1, 64.3 (q, $J = 26.9$ Hz), 36.7, 14.1. ^{19}F NMR (376 MHz, $CDCl_3$) δ -77.10 (s). HRMS Calcd. For $C_{14}H_{17}F_3NO_2$ ($[M+H]^+$): 288.1143, found: 288.1130. As the product could not be split by HPLC, the enantiomeric excess was determined as 95% base on products **3a** and **12**.

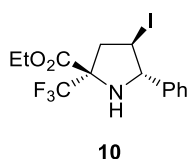


Ethyl (*S,E*)-3-amino-6-phenyl-3-(trifluoromethyl)hex-5-enoate:

Colorless oil; 86% yield; $[\alpha]_D^{25} = -1.5$ (c 3.88, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.45 – 7.15 (m, 5H), 6.52 (d, $J = 15.8$ Hz, 1H), 6.32 – 6.10 (m, 1H), 4.15 (qd, $J = 7.1, 1.5$ Hz, 2H), 2.74 – 2.50 (m, 4H), 1.26 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 170.1, 136.8, 135.3, 128.6, 127.7, 127.1 (q, $J = 287.1$ Hz), 126.3, 122.5, 61.0, 58.3 (q, $J = 25.9$ Hz), 38.9, 38.3, 14.1. ^{19}F NMR (376 MHz, CDCl_3) δ -79.49 (s). HRMS Calcd. For $\text{C}_{15}\text{H}_{19}\text{F}_3\text{NO}_2$ ($[\text{M}+\text{H}]^+$): 302.1362, found: 302.1352. The product was analyzed by HPLC to determine the enantiomeric excess: 91% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 250$ nm); $t_r = 9.83$ and 12.00 min.



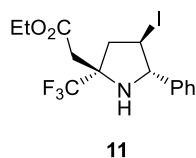
To a 5 mL vial equipped with stirrer bar were added **8** or **9** (0.2 mmol), I_2 (0.6 mmol) and CH_3CN (1 mL). NaHCO_3 was added to the mixture and stirred at -20 °C for 12 h. Once the start material was disappeared, the mixture was quenched by addition of CH_2Cl_2 (5 mL) and saturated $\text{Na}_2\text{S}_2\text{O}_3$ (5 mL), and the aqueous layer was extracted with additional portions of CH_2Cl_2 . The combined organic layers were combined, concentrated, purified by flash chromatography on silica gel (PE / EA = 5:1) to give the desired product **10** or **11** as brown oil.



Ethyl (2*R*,4*R*,5*S*)-4-iodo-5-phenyl-2-(trifluoromethyl)pyrrolidine-2-carboxylate:

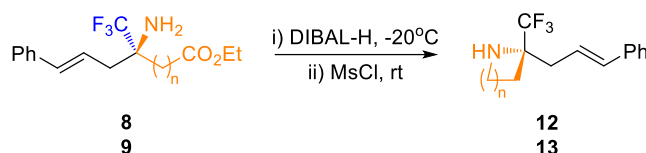
Colorless oil; 81% yield; $[\alpha]_D^{25} = 12.5$ (c 0.83, CH_2Cl_2). ^1H NMR (400 MHz, CDCl_3) δ 7.50 – 7.29 (m, 5H), 4.55 – 4.21 (m, 3H), 3.86 – 3.69 (m, 1H), 3.24 (s, 1H), 3.04 (dd, $J = 13.8, 6.9$ Hz, 1H), 2.73 (dd, $J = 13.7, 12.4$ Hz, 1H), 1.37 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, CDCl_3) δ 169.7, 137.2, 129.0, 128.9, 127.3, 124.6 (q, $J = 283.9$ Hz), 73.4, 71.1 (q, $J = 29.7$ Hz), 63.6, 44.0, 24.0, 14.0. ^{19}F NMR (376 MHz, CDCl_3) δ -76.30 (s). HRMS Calcd. For $\text{C}_{14}\text{H}_{16}\text{F}_3\text{INO}_2$ ($[\text{M}+\text{H}]^+$): 414.0172, found: 414.0157. The product was analyzed by HPLC to determine the

enantiomeric excess: 95% ee (Chiralpak IE-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 220$ nm); $t_r = 4.19$ and 4.54 min.



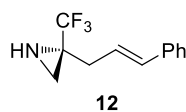
Ethyl 2-((2*S*,4*R*,5*S*)-4-iodo-5-phenyl-2-(trifluoromethyl)pyrrolidin-2-yl)acetate:

Colorless oil; 86% yield; $[\alpha]^{25}_D = -1.9$ (c 1.87, CH_2Cl_2). $^1\text{H NMR}$ (400 MHz, CDCl_3) δ 7.53 – 7.41 (m, 2H), 7.41 – 7.30 (m, 3H), 4.38 (d, $J = 10.2$ Hz, 1H), 4.31 – 4.18 (m, 2H), 3.96 (dd, $J = 18.8, 10.4$ Hz, 1H), 2.95 – 2.55 (m, 5H), 1.31 (t, $J = 7.2$ Hz, 3H). $^{13}\text{C NMR}$ (101 MHz, CDCl_3) δ 169.9, 137.7, 128.7, 128.6, 127.0 (q, $J = 291.5$ Hz), 127.3, 73.0, 65.7 (q, $J = 27.6$ Hz), 61.4, 43.5, 38.0, 38.0, 25.5, 14.2. $^{19}\text{F NMR}$ (376 MHz, CDCl_3) δ -80.33 (s), -80.57 (s). HRMS Calcd. For $\text{C}_{15}\text{H}_{18}\text{F}_3\text{INO}_2$ ($[\text{M}+\text{H}]^+$): 428.0329, found: 428.0317. The product was analyzed by HPLC to determine the enantiomeric excess: 91% ee (Chiralpak OD-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, $\lambda = 210$ nm); $t_r = 4.38$ and 4.62 min.



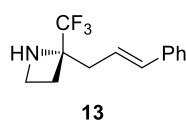
8 or **9** (0.4 mmol) was added to a 25 ml nitrogen-filled dry shlenk tube, followed by THF. Under -20 °C, DIBAL-H (1.0 mmol) was added dropwisely. After stirring for 2 hours at room temperature, the reaction was quenched by cold NaOH aq (1 M, 10 ml), and the aqueous layer was extracted with additional portions of CH_2Cl_2 . The combined organic layers were combined, concentrated and purified by flash chromatography on silica gel (PE / EA = 5 : 1). The crude product, CH_2Cl_2 (2 mL) and Et_3N (0.5 mmol) were added to a 25-mL vial. After stirring for 5 mins under 0 °C, MsCl (0.4 mmol) was added via a microsyringe, then the reaction was allowed to react for overnight at rt. Once the starting material was consumed (monitored by TLC), the reaction mixture was concentrated via rotary evaporation under reduced pressure,

and then purified by flash chromatography on Al₂O₃ (PE / EA = 10 : 1) to give **12** or **13** as colorless oil.



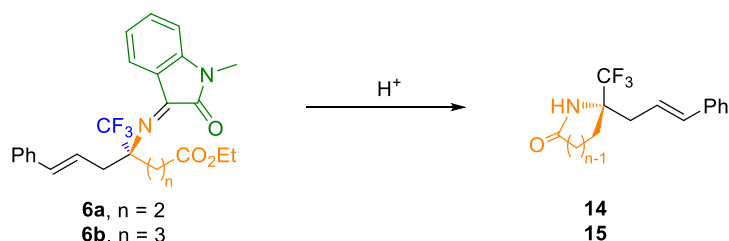
(R)-2-cinnamyl-2-(trifluoromethyl)aziridine:

Colorless oil; 85% yield; $[\alpha]_D^{25} = 0.4$ (*c* 1.03, CH₂Cl₂). ¹H NMR (400 MHz, DMSO) δ 7.42 (d, *J* = 7.4 Hz, 2H), 7.33 (t, *J* = 7.4 Hz, 2H), 7.24 (t, *J* = 7.1 Hz, 1H), 6.55 (d, *J* = 15.8 Hz, 1H), 6.38 – 6.14 (m, 1H), 2.70 (d, *J* = 7.0 Hz, 2H), 2.12 (t, *J* = 8.2 Hz, 1H), 1.91 (d, *J* = 9.7 Hz, 1H), 1.78 (d, *J* = 7.9 Hz, 1H). ¹³C NMR (101 MHz, DMSO) δ 137.1, 133.6, 129.1, 127.9, 126.9 (q, *J* = 277.4 Hz), 126.6, 124.2, 37.9 (q, *J* = 33.2 Hz), 33.5, 26.8. ¹⁹F NMR (376 MHz, CDCl₃) δ -70.54 (s). HRMS Calcd. For C₁₂H₁₃F₃N ([M+H]⁺): 228.0995, found: 228.0989. The product was analyzed by HPLC to determine the enantiomeric excess: 92% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 254 nm); *t_r* = 6.34 and 8.35 min.

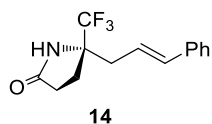


(R)-2-cinnamyl-2-(trifluoromethyl)azetidine:

Colorless oil; 80% yield; $[\alpha]_D^{25} = -32.2$ (*c* 0.64, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.56 – 7.09 (m, 5H), 6.60 (d, *J* = 15.7 Hz, 1H), 6.48 – 6.24 (m, 1H), 3.63 – 3.34 (m, 2H), 2.77 – 2.42 (m, 4H). ¹³C NMR (101 MHz, CDCl₃) δ 135.2, 128.7, 127.7, 126.8 (q, *J* = 283.4 Hz), 126.3, 122.4, 65.3 (q, *J* = 28.6 Hz), 41.3, 37.7, 24.6. ¹⁹F NMR (376 MHz, CDCl₃) δ -81.85 (s). HRMS Calcd. For C₁₃H₁₅F₃N ([M+H]⁺): 242.1151, found: 242.1149. The product was analyzed by HPLC to determine the enantiomeric excess: 90% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 250 nm); *t_r* = 5.70 and 13.34 min.

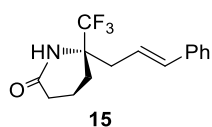


To a 10 mL vial, **6a** or **6b** (0.4 mmol) was diluted in 1 ml MeOH, then NH₂OH•OAc (0.5 mmol) was added. After stirring for 3 hours, the solvent was removed by rotary evaporation, **14** or **15** were obtained by chromatography on silica gel (PE / EA = 20 : 1) as colorless oil.



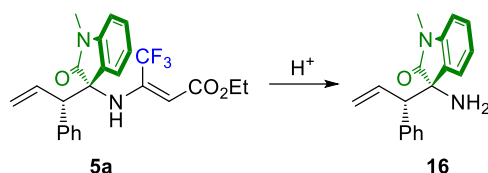
(R)-4-cinnamyl-4-(trifluoromethyl)azetidin-2-one:

Colorless oil; 80% yield; $[\alpha]_D^{25} = -14.0$ (*c* 0.73, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.42 – 7.19 (m, 5H), 6.89 (s, 1H), 6.55 (d, *J* = 15.8 Hz, 1H), 6.18 – 6.00 (m, 1H), 2.77 (ddd, *J* = 14.4, 6.2, 1.4 Hz, 1H), 2.64 – 2.43 (m, 2H), 2.43 – 2.25 (m, 2H), 2.21 – 2.04 (m, 1H). ¹³C NMR (101 MHz, CDCl₃) δ 178.0, 136.4, 136.3, 128.7, 128.0, 126.5 (q, *J* = 285.7 Hz), 126.4, 120.7, 64.0 (q, *J* = 27.9 Hz), 37.4, 29.7, 25.5. ¹⁹F NMR (376 MHz, CDCl₃) δ -80.14 (s). HRMS Calcd. For C₁₄H₁₅F₃NO ([M+H]⁺): 270.1100, found: 270.1094. The product was analyzed by HPLC to determine the enantiomeric excess: 90% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 250 nm); *t_r* = 10.20 and 14.62 min.

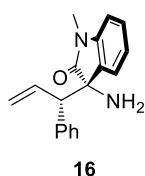


(S)-5-cinnamyl-5-(trifluoromethyl)pyrrolidin-2-one:

Colorless oil; 86% yield; $[\alpha]_D^{25} = -52.9$ (*c* 0.75, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.38 – 7.28 (m, 4H), 7.28 – 7.23 (m, 1H), 6.65 (brs, 1H), 6.52 (d, *J* = 15.8 Hz, 1H), 6.21 – 5.99 (m, 1H), 2.68 (dd, *J* = 14.2, 5.8 Hz, 1H), 2.55 (dd, *J* = 14.3, 8.7 Hz, 1H), 2.44 – 2.22 (m, 2H), 2.16 – 2.01 (m, 1H), 2.01 – 1.71 (m, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 173.0, 136.5, 136.2, 128.7, 127.9, 126.4, 126.3 (q, *J* = 287.1 Hz), 121.0, 60.2 (q, *J* = 26.4 Hz), 39.6, 30.7, 25.8, 17.5. ¹⁹F NMR (376 MHz, CDCl₃) δ -78.81 (s). HRMS Calcd. For C₁₅H₁₇F₃NO ([M+H]⁺): 284.1257, found: 284.1251. The product was analyzed by HPLC to determine the enantiomeric excess: 93% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95, flow rate 1.0 mL/min, λ = 250 nm); *t_r* = 12.31 and 16.10 min.



Branched allylation product **5a** (0.2 mmol) was added to a 10 mL vial, then (+)-CSA (0.3 mmol) deluted in 1 mL MeOH was added to the vial. After stirring for 3 hours, the solvent was removed by rotary evaporation and **16** was obtained by chromatography on silica gel (PE / EA / Et₃N = 5 : 1: 1) as colorless oil.



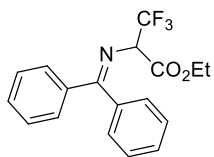
(S)-3-amino-1-methyl-3-((S)-1-phenylallyl)indolin-2-one:

Yellow oil; 86% yield; $[\alpha]_D^{25} = 3.9$ (*c* 3.66, CH₂Cl₂). ¹H NMR (400 MHz, CDCl₃) δ 7.44 (dd, *J* = 7.4, 0.8 Hz, 1H), 7.34 – 7.26 (m, 1H), 7.18 – 6.96 (m, 4H), 6.75 – 6.64 (m, 2H), 6.56 (d, *J* = 7.8 Hz, 1H), 6.43 (ddd, *J* = 17.0, 10.1, 9.2 Hz, 1H), 5.43 – 5.19 (m, 2H), 3.69 (d, *J* = 9.1 Hz, 1H), 2.74 (s, 3H). ¹³C NMR (101 MHz, CDCl₃) δ 178.9, 143.7, 137.6, 135.1, 129.9, 129.2, 128.4, 127.6, 127.0, 124.4, 122.4, 119.6, 108.0, 64.6, 58.7, 25.6. HRMS Calcd. For C₁₈H₁₉N₂O ([M+H]⁺): 279.1492, found: 279.1489. The product was analyzed by HPLC to determine the enantiomeric excess: 98% ee (Chiralpak OD-H, *i*-propanol/hexane = 40/60, flow rate 1.0 mL/min, λ = 220 nm); t_r = 5.53 and 5.96 min.

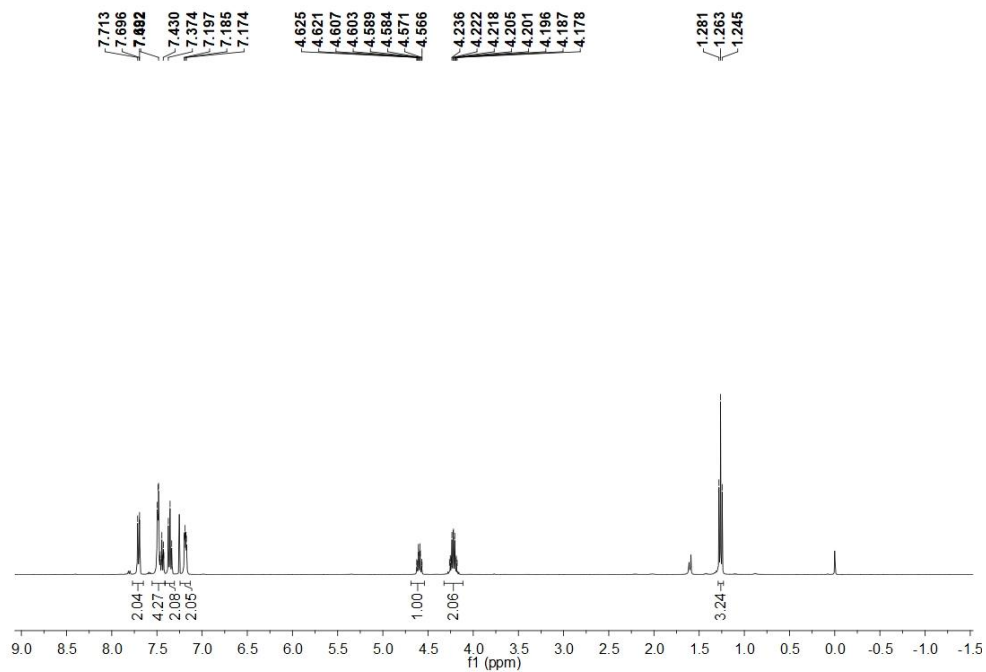
6. References

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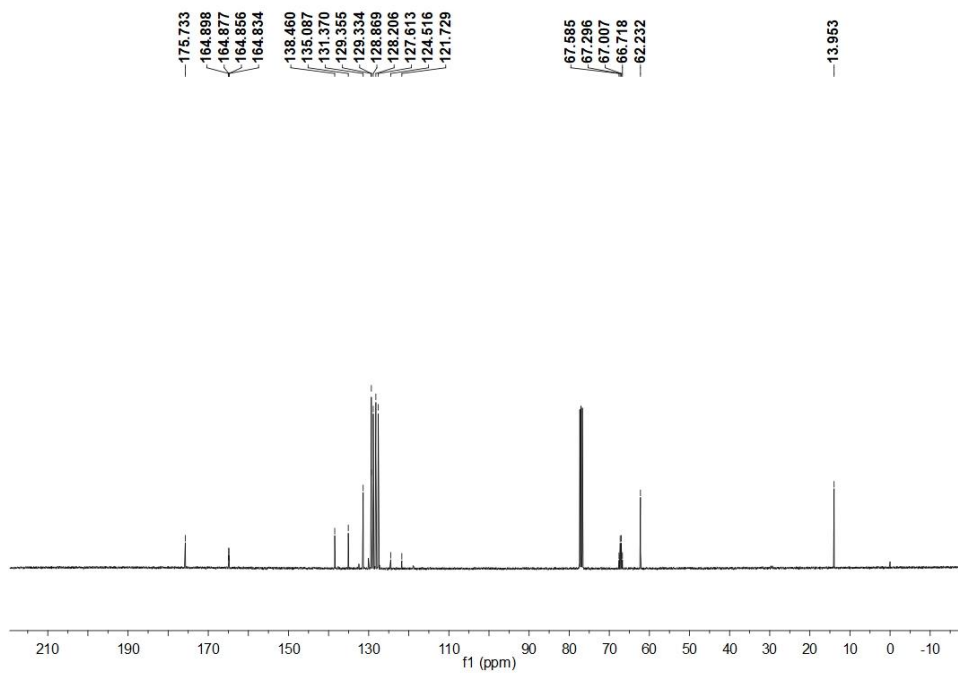
7. NMR spectra



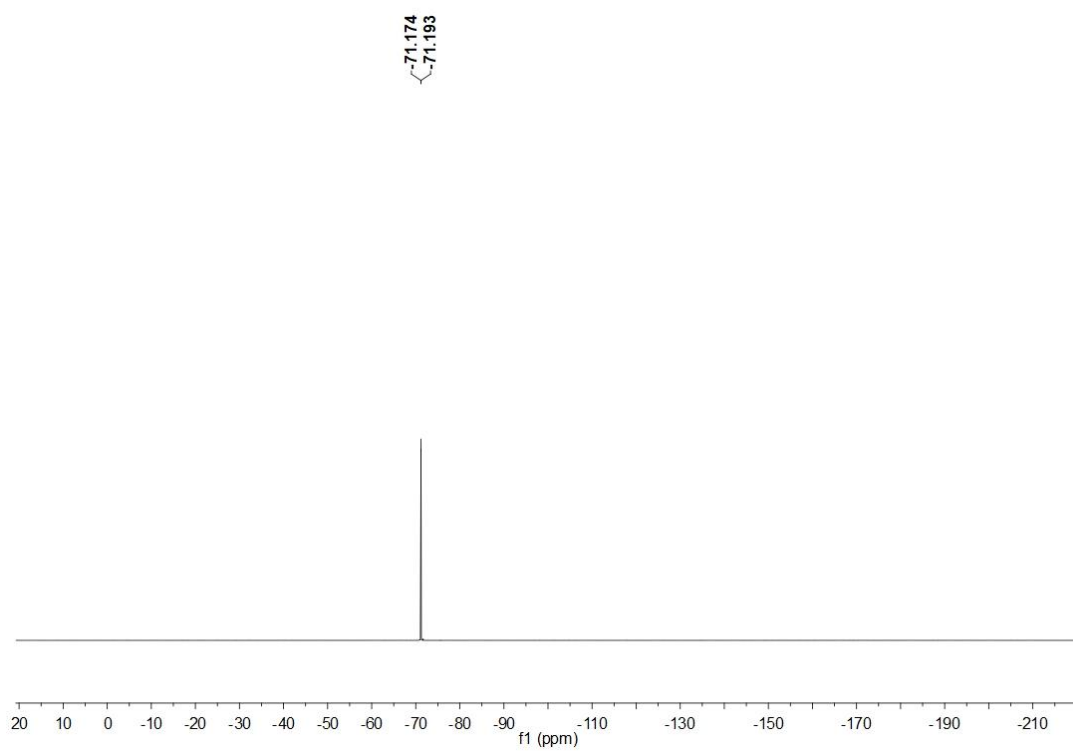
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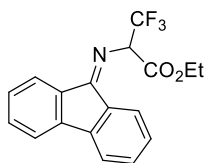
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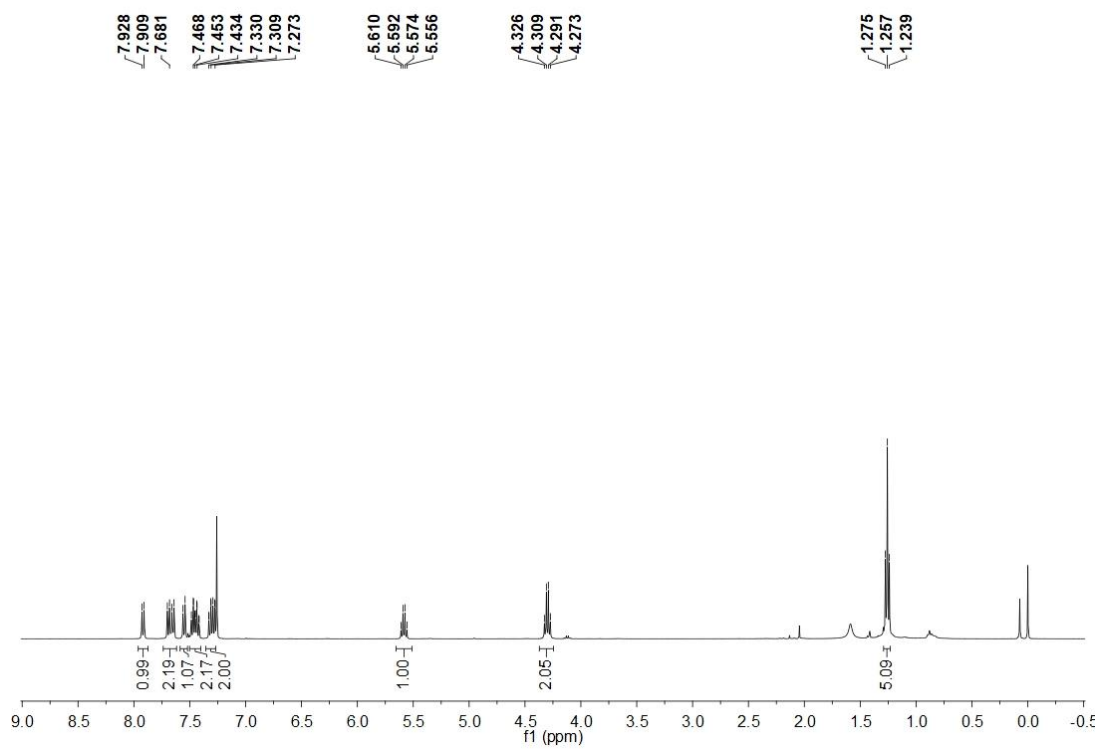
¹³C NMR (101 MHz, CDCl₃)



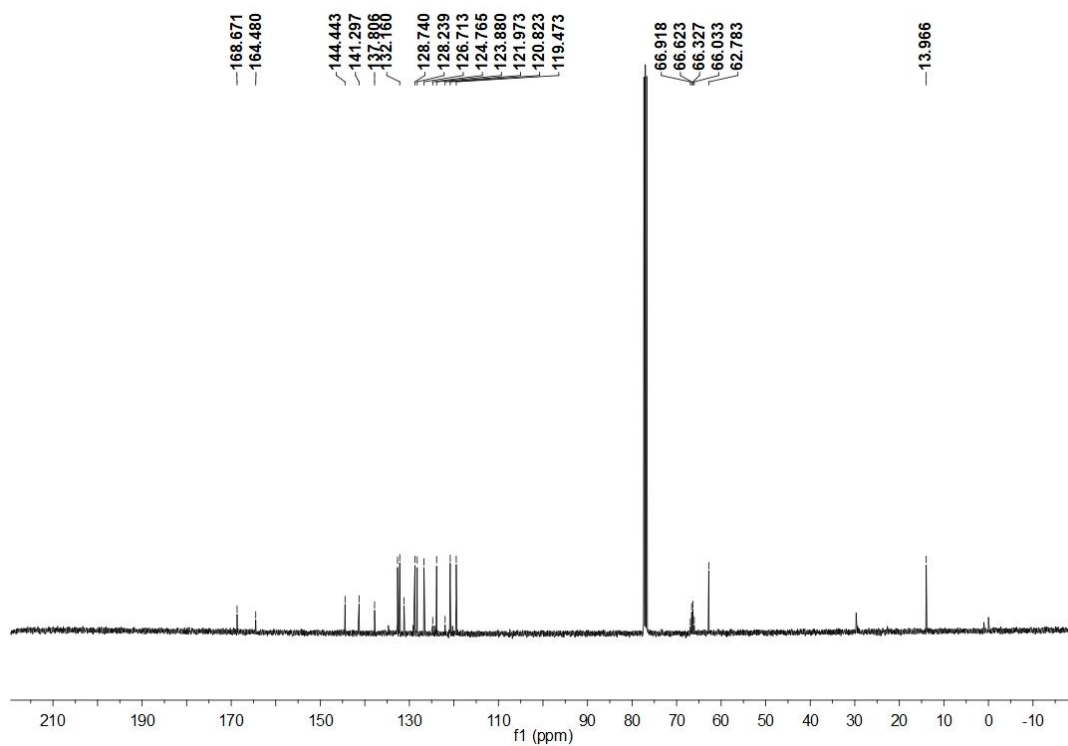
^{19}F NMR (376 MHz, CDCl_3)



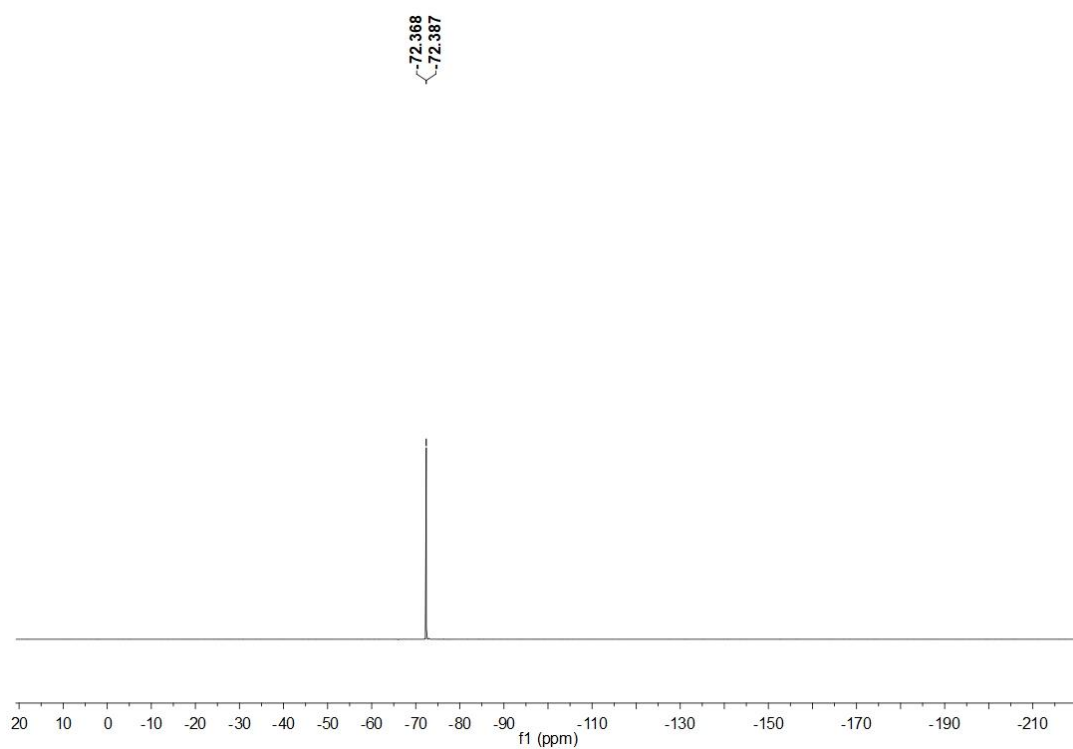
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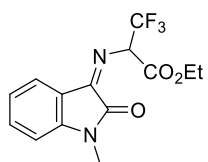
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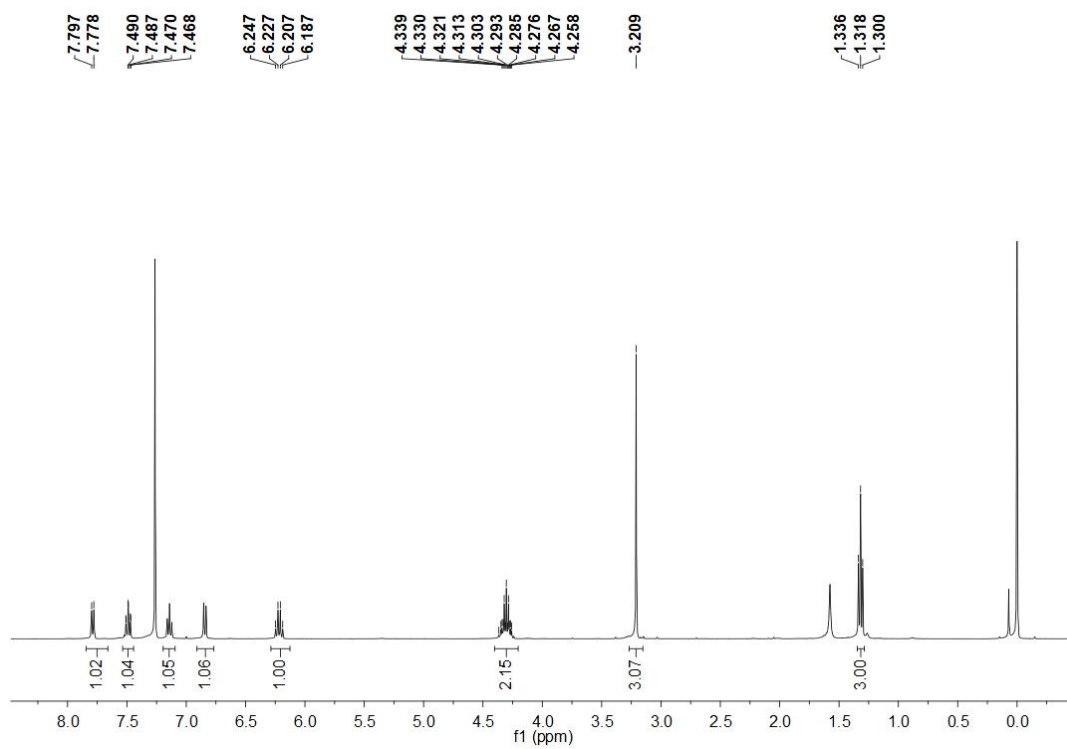
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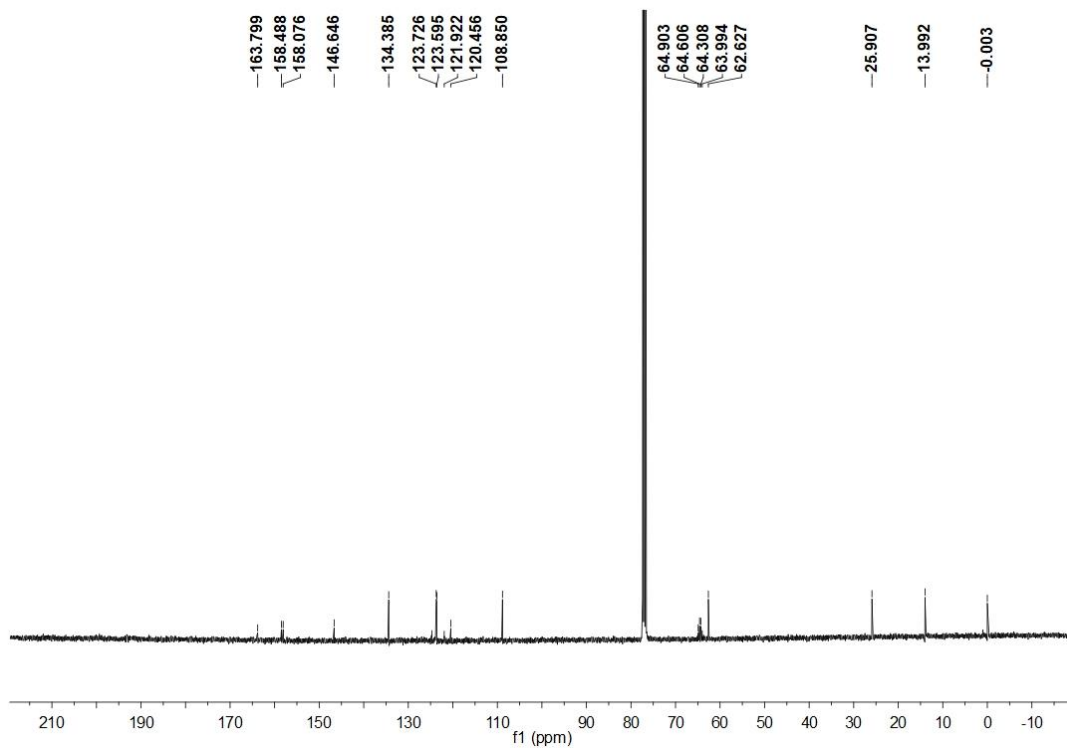
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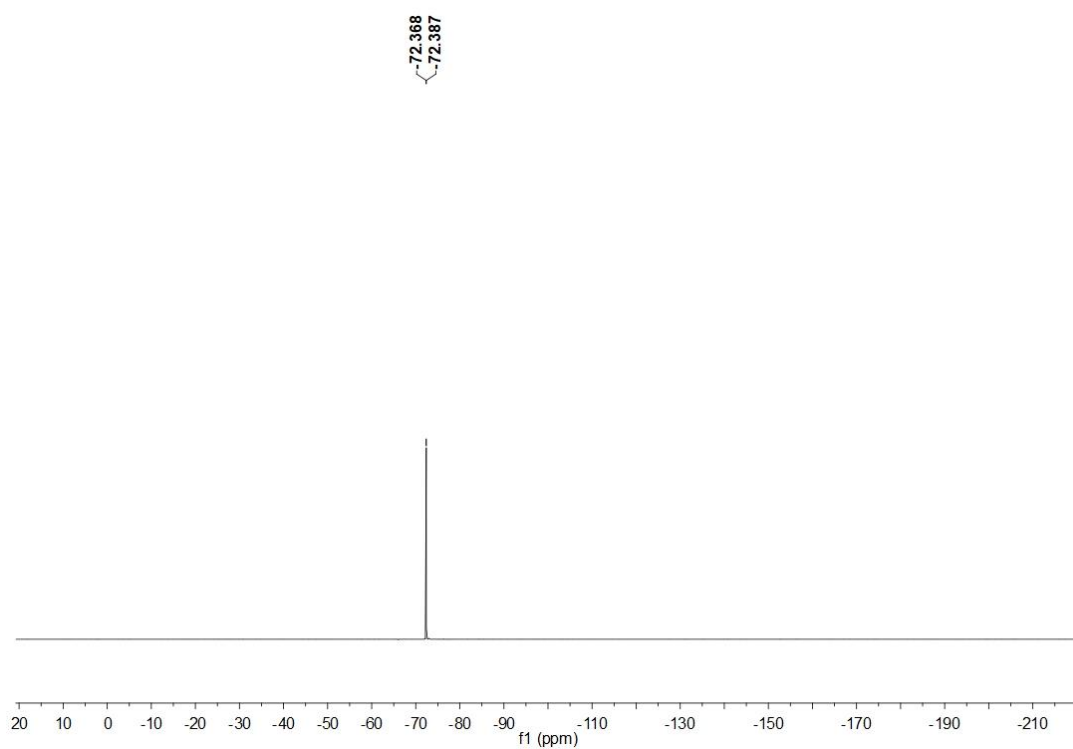
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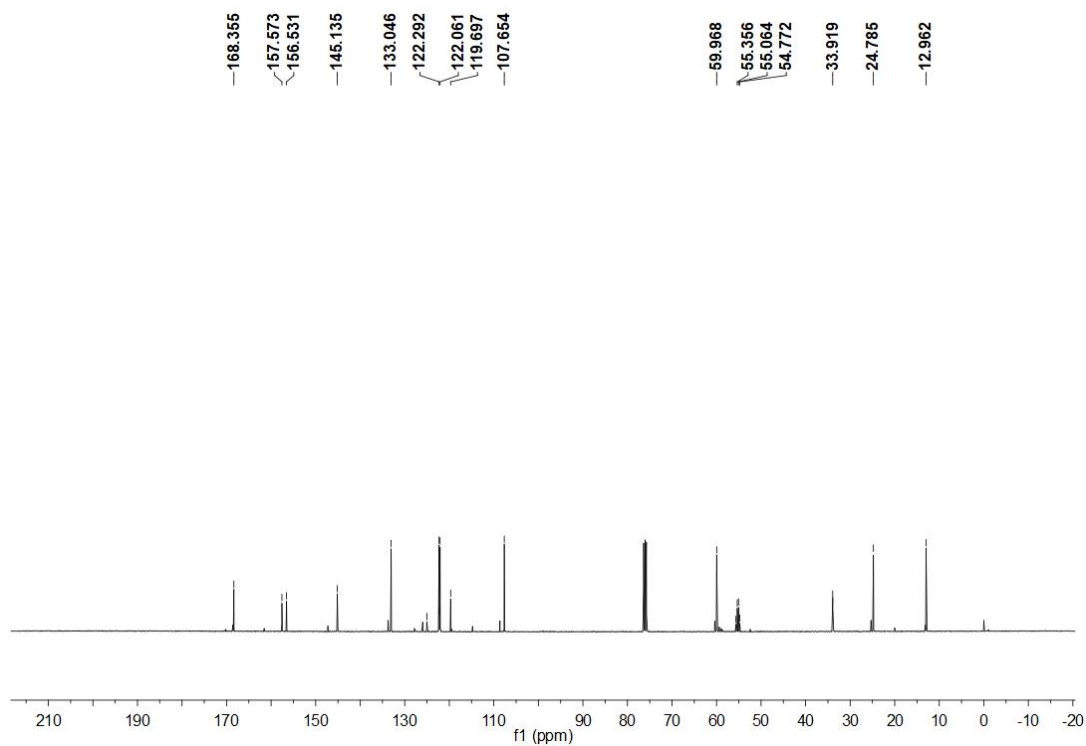
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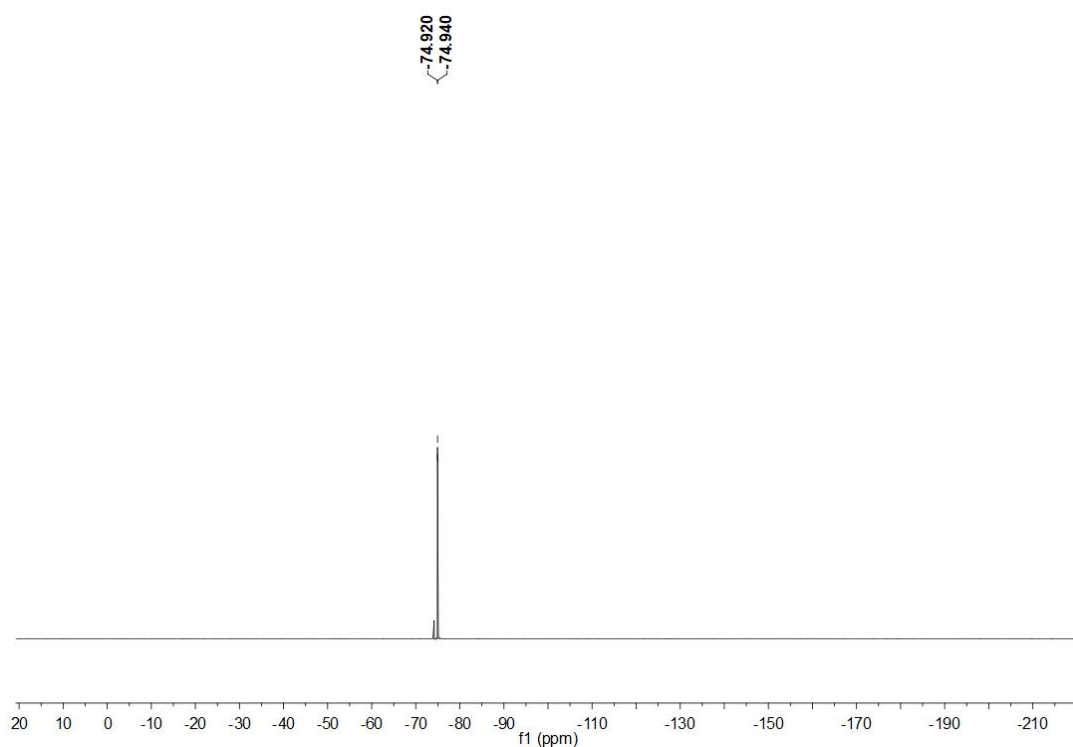
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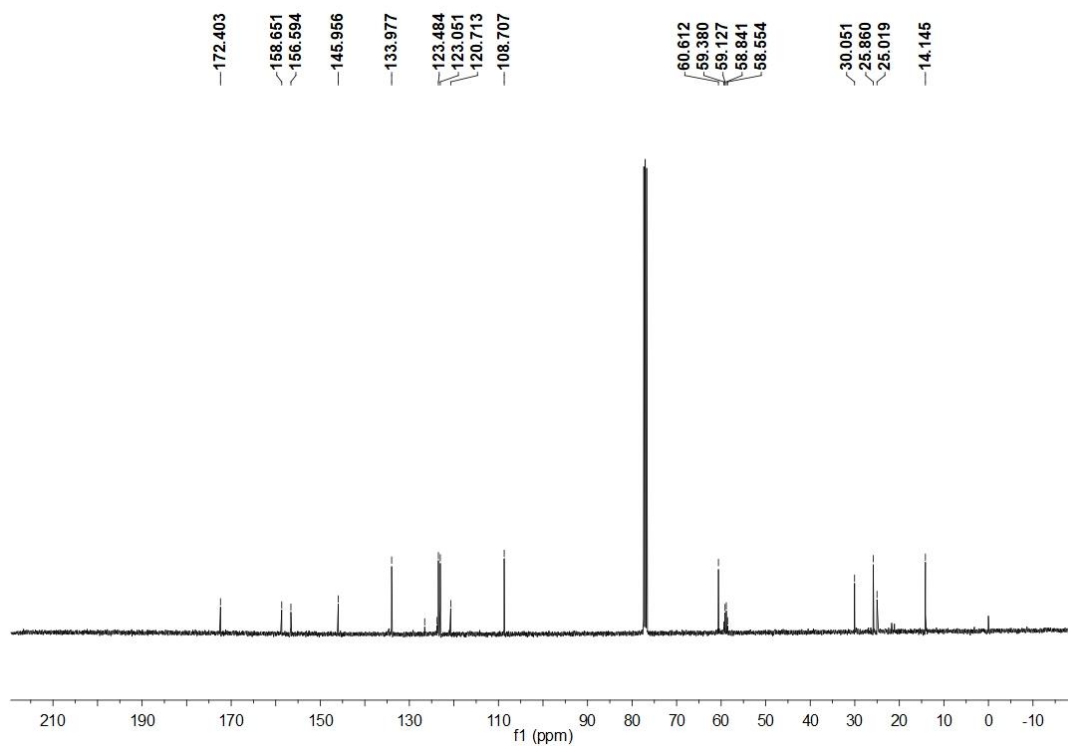
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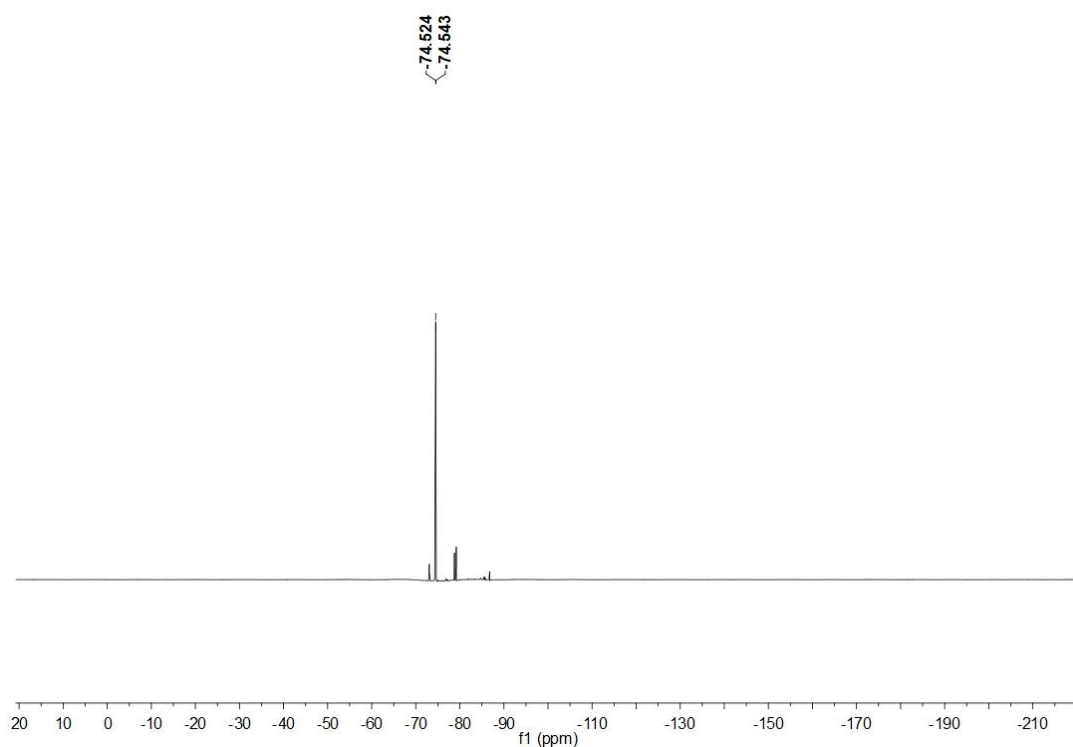
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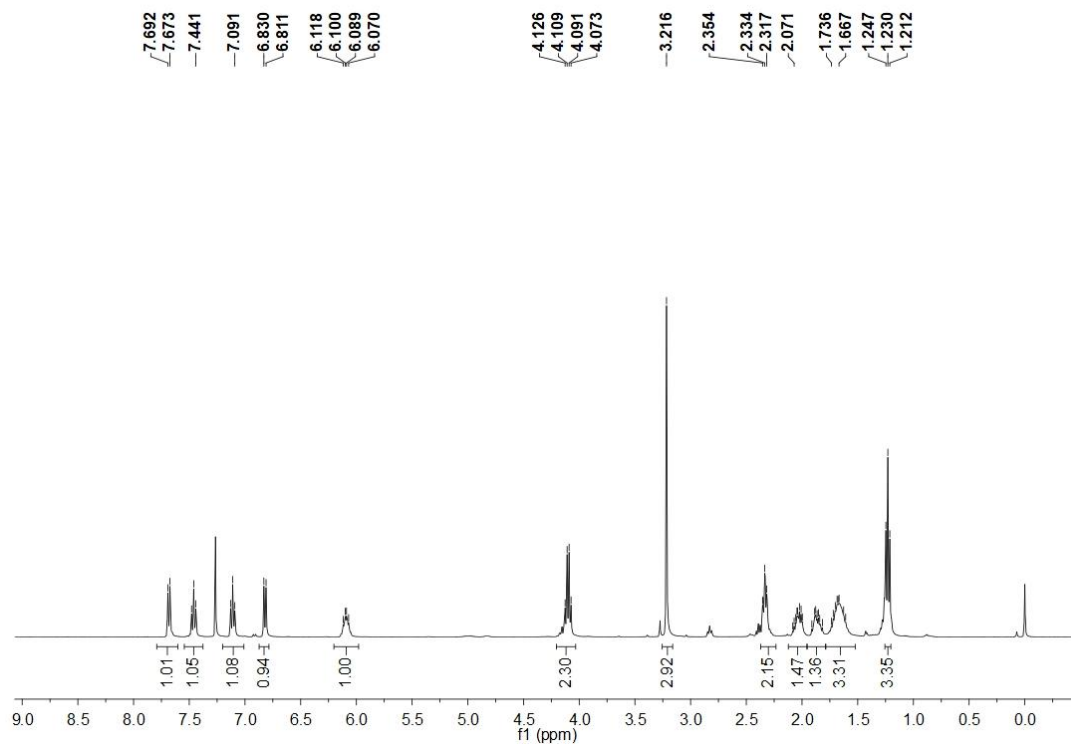
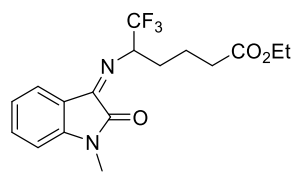
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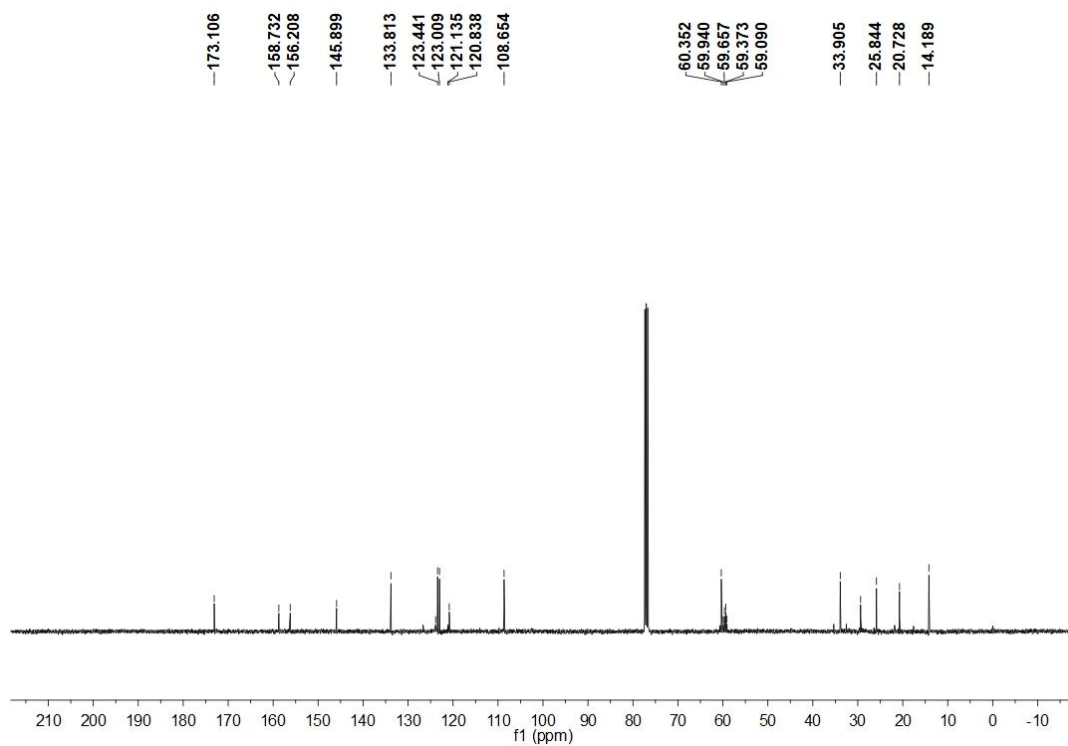
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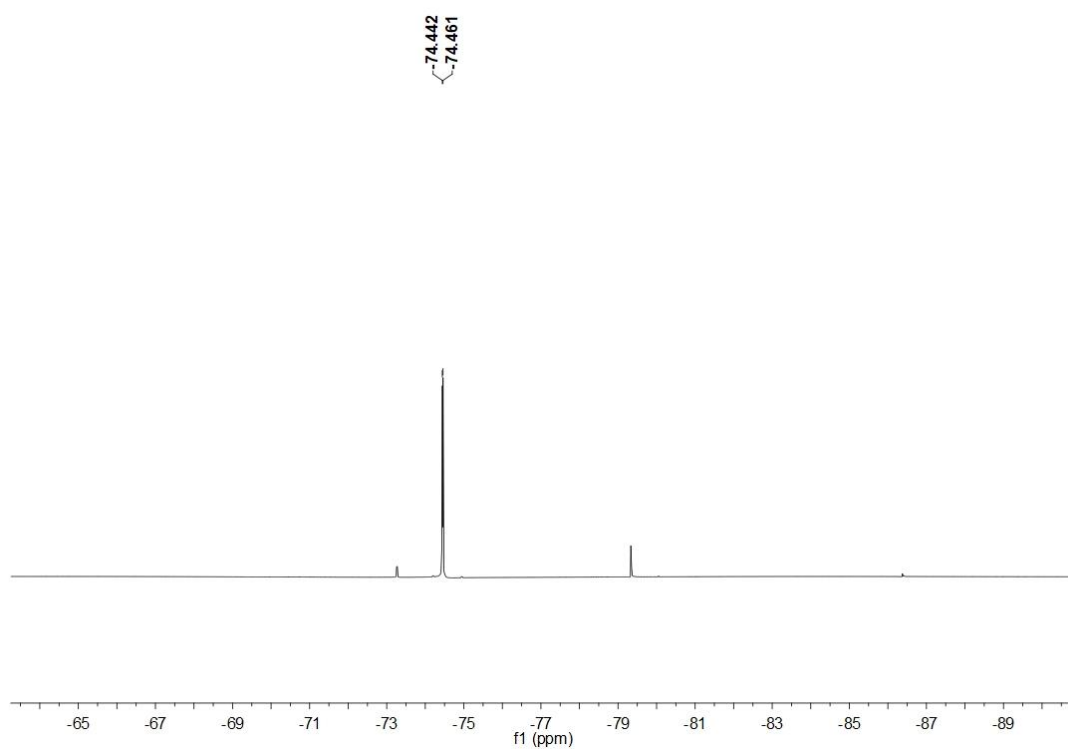
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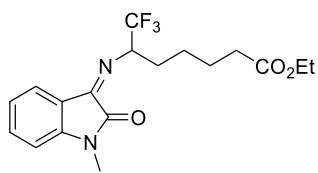
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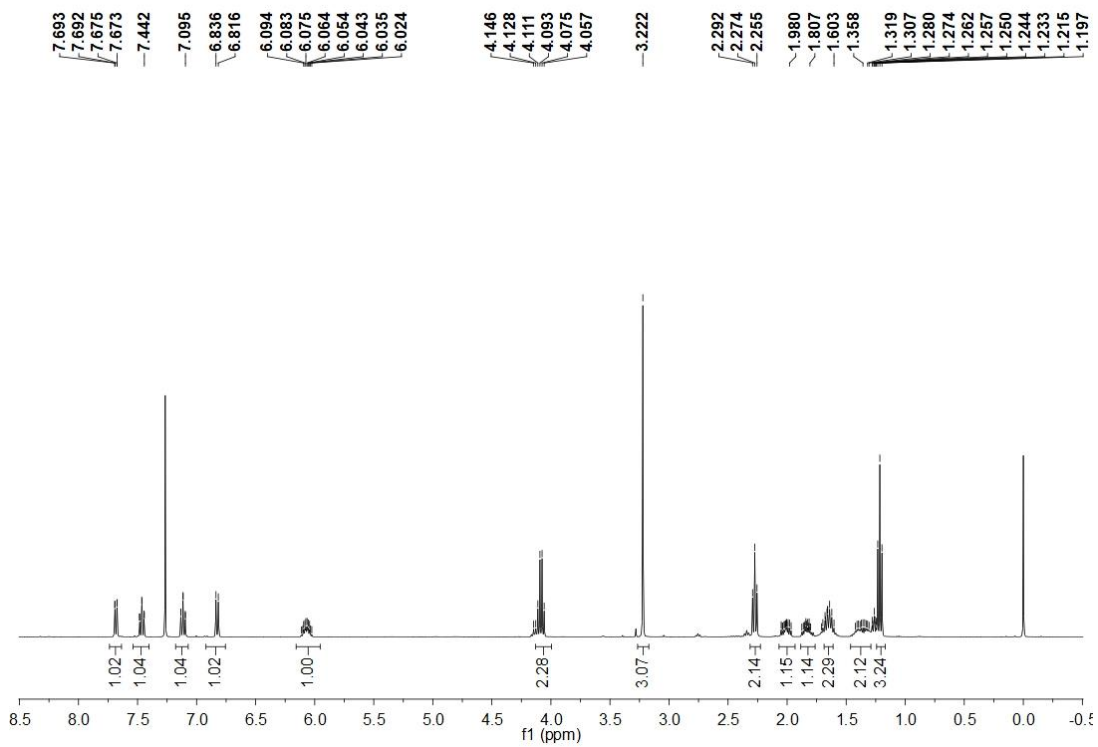
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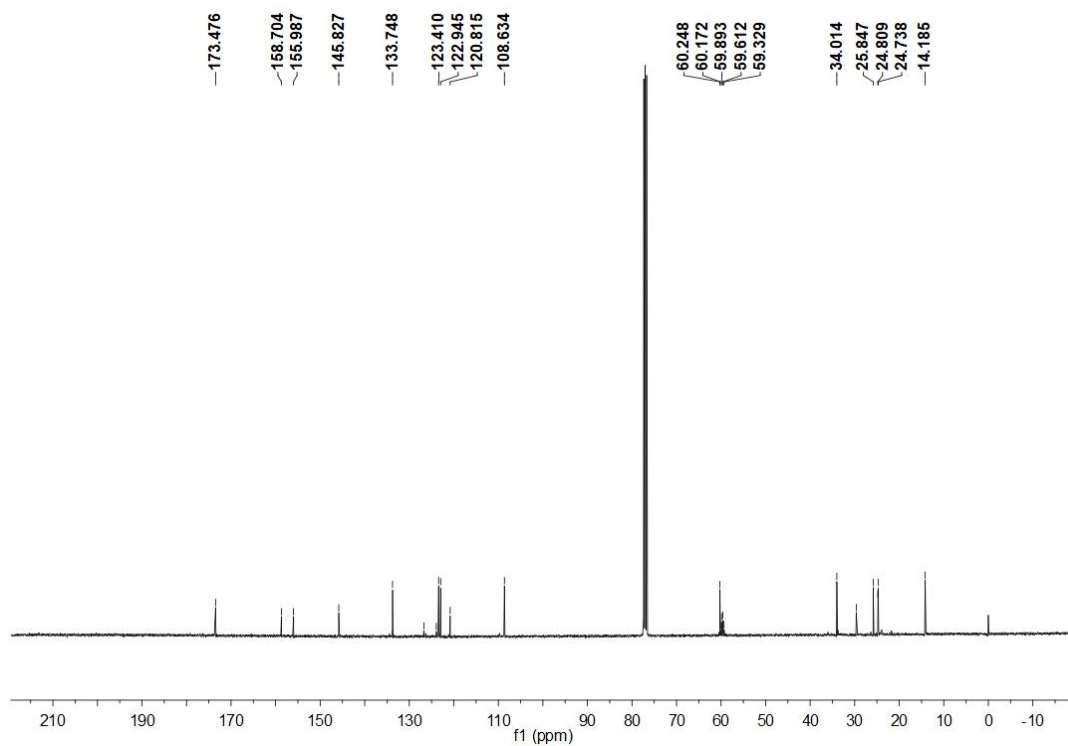
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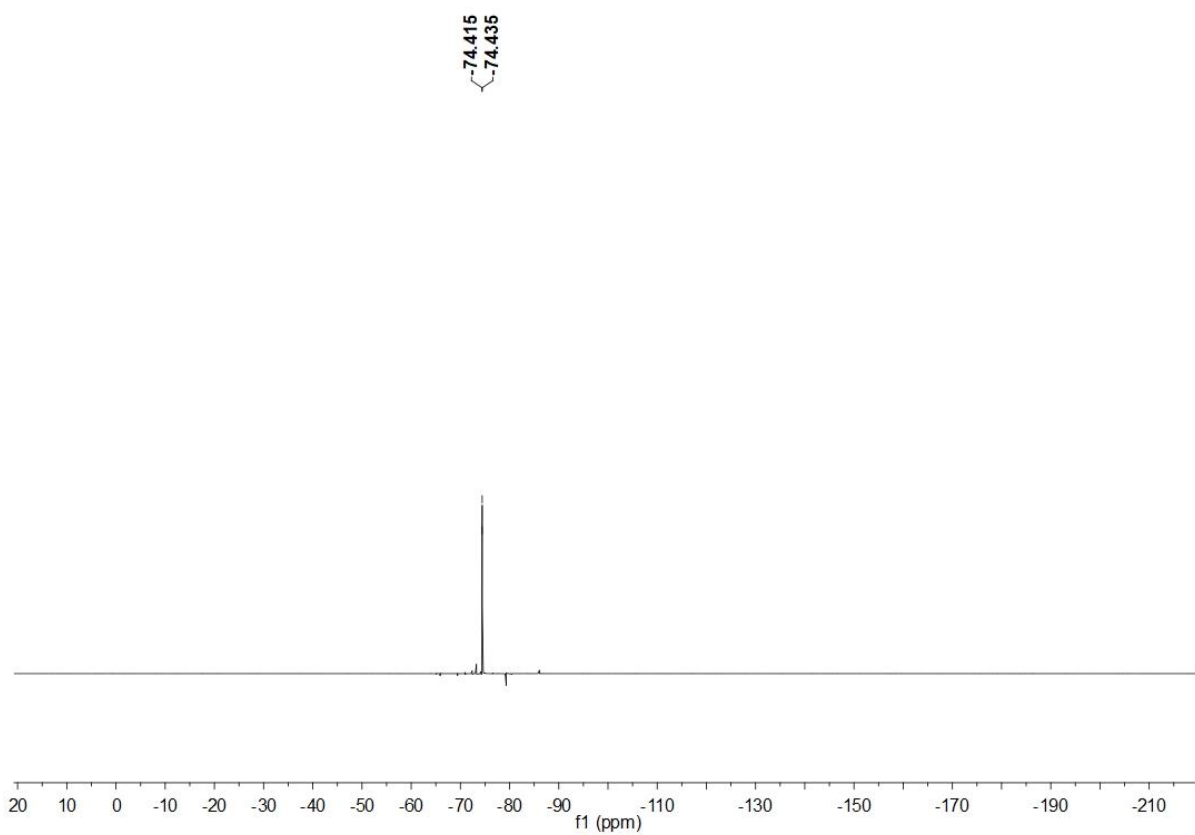
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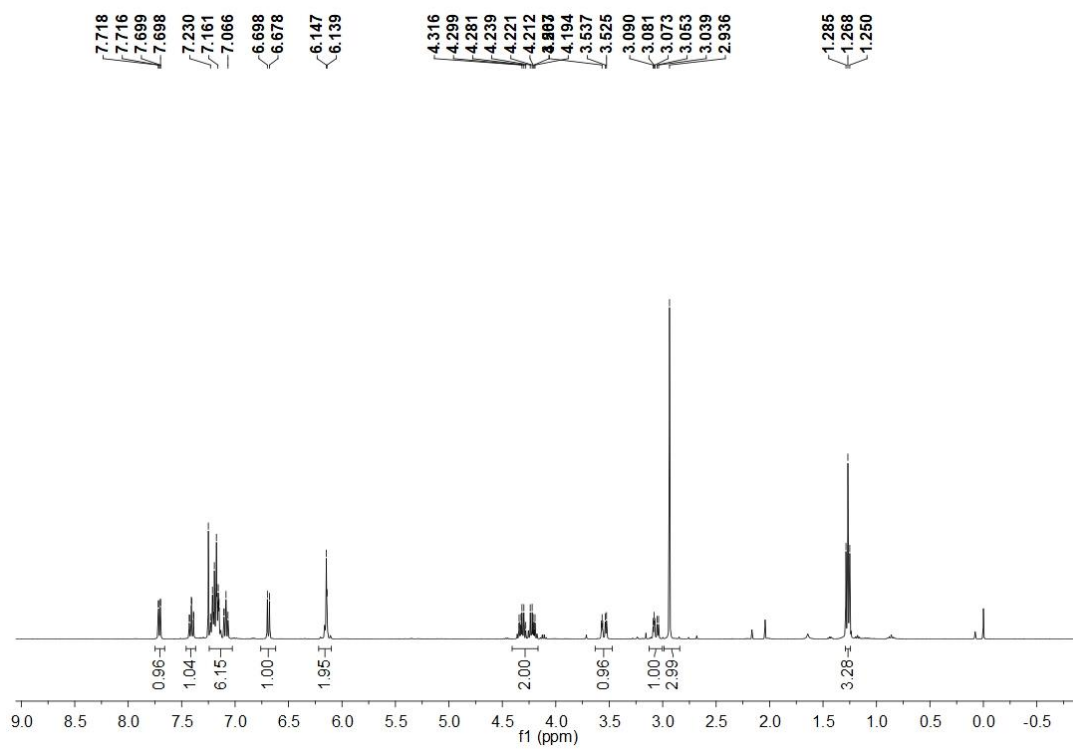
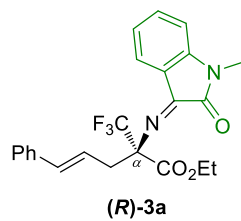
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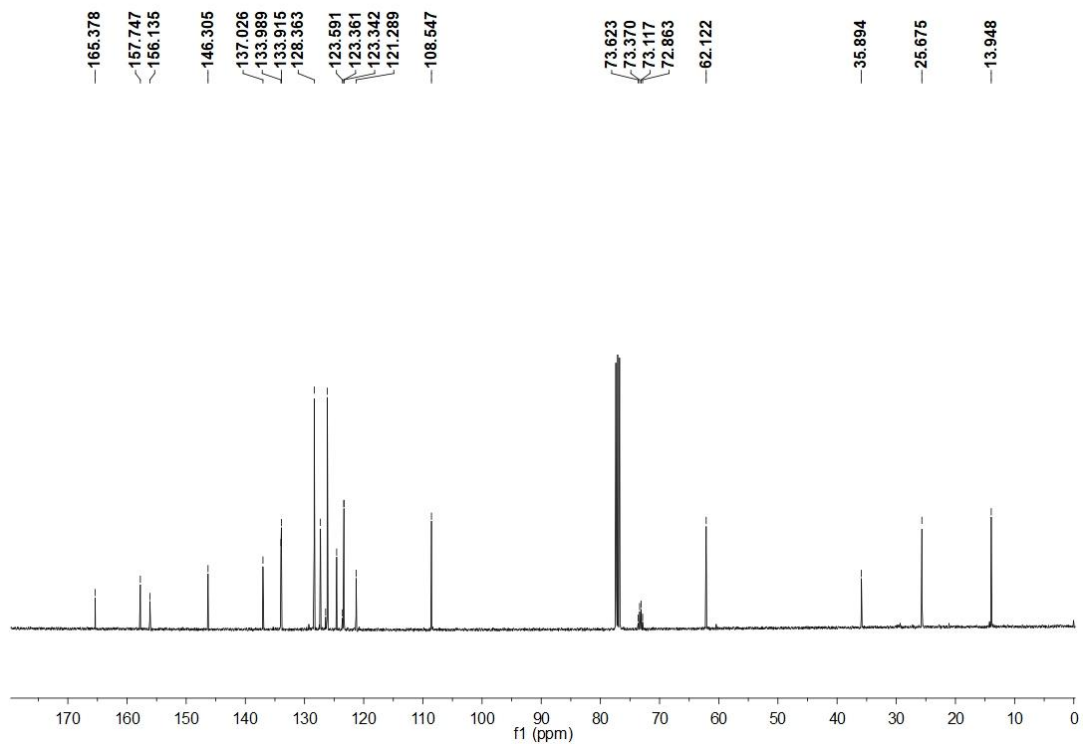
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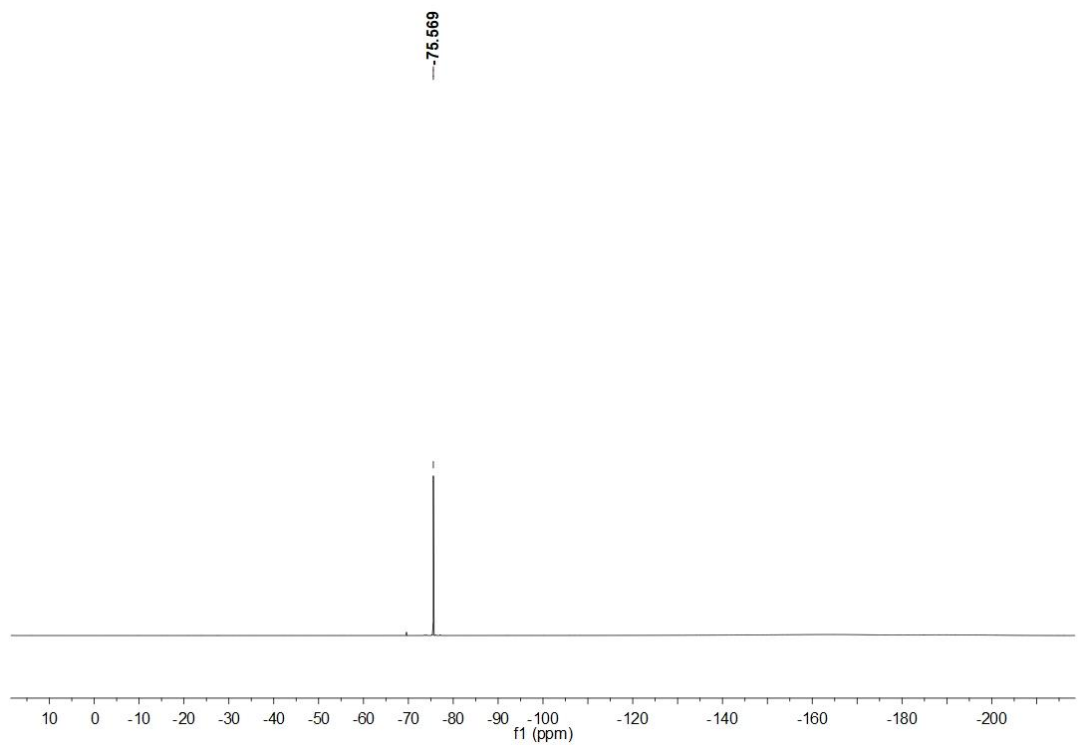
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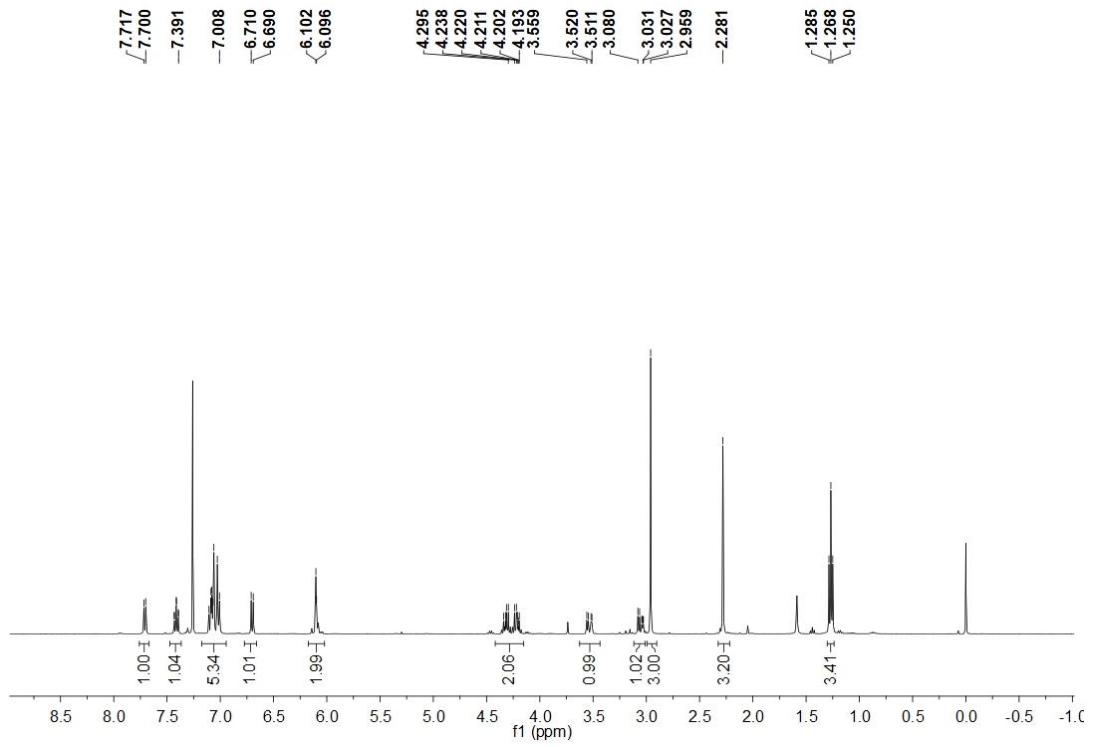
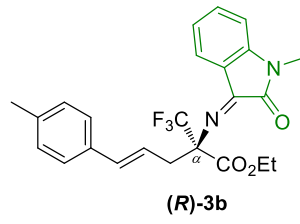
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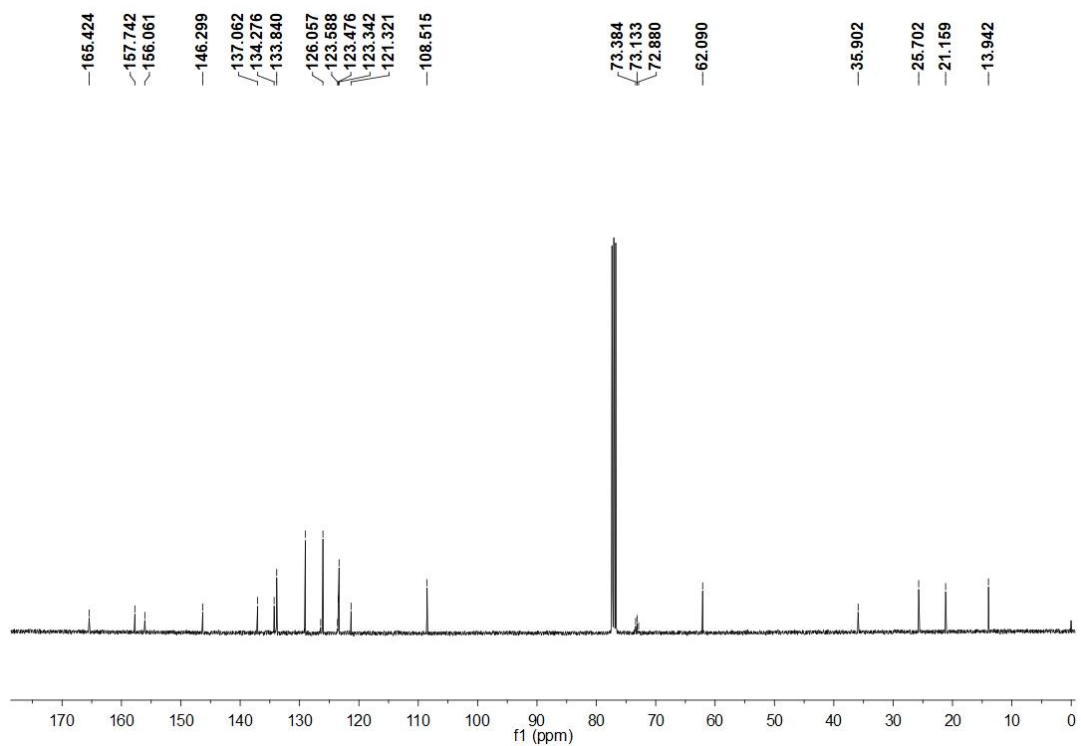
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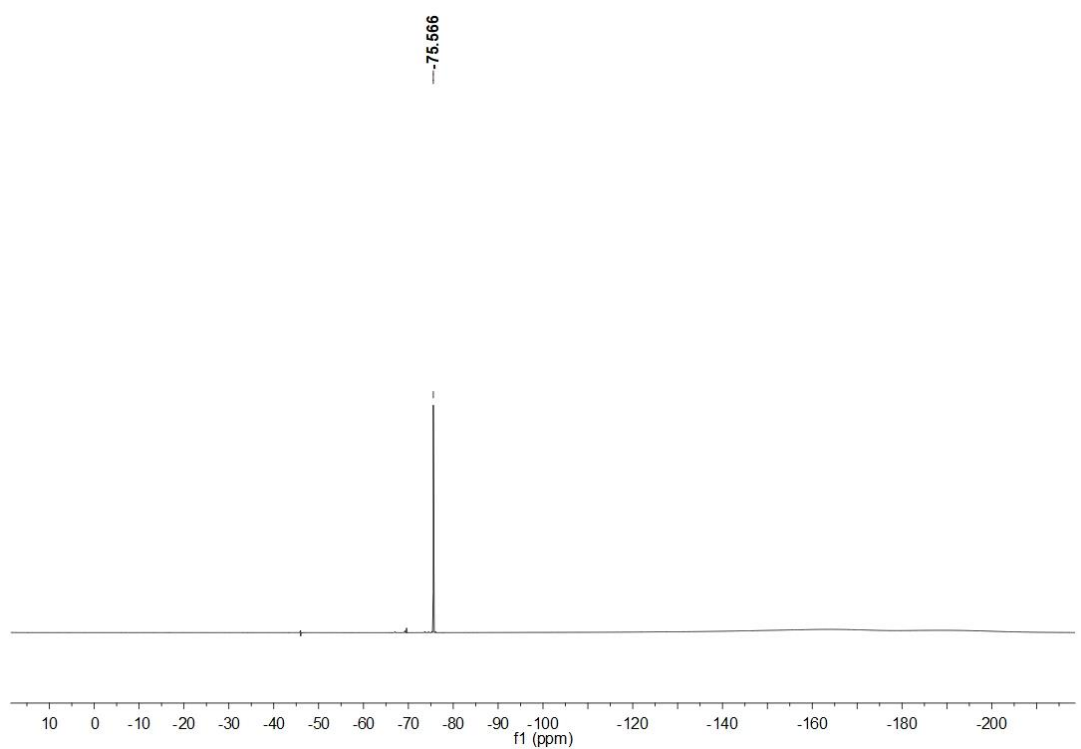
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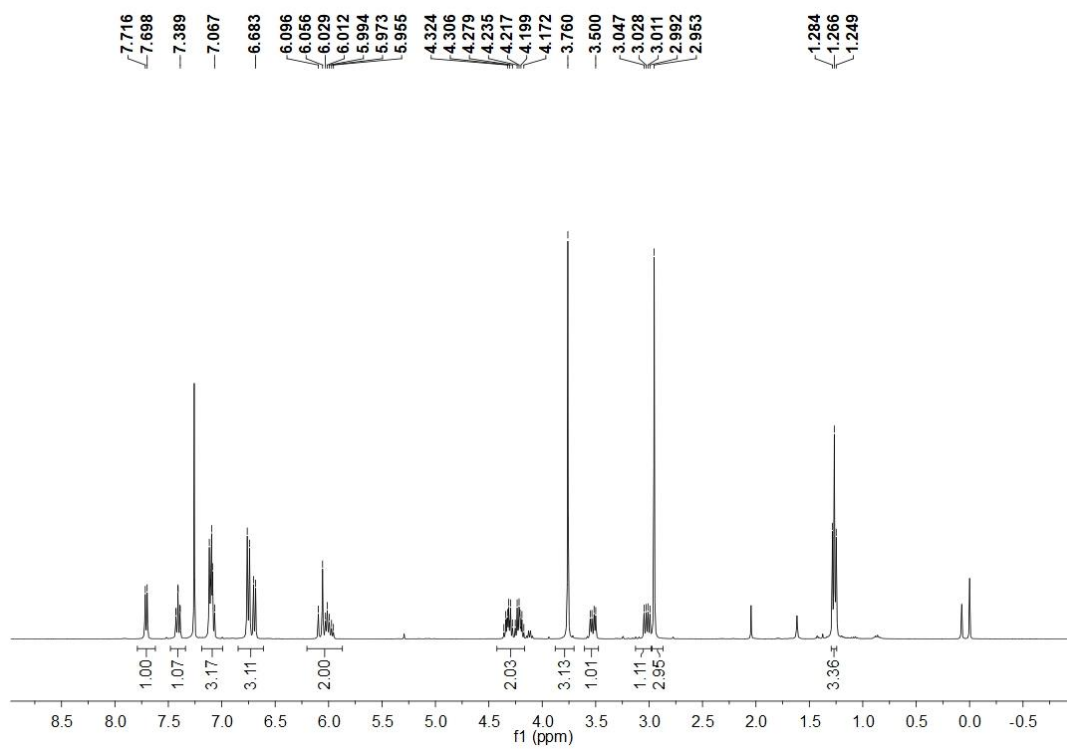
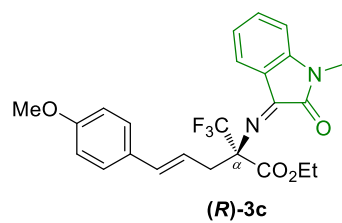
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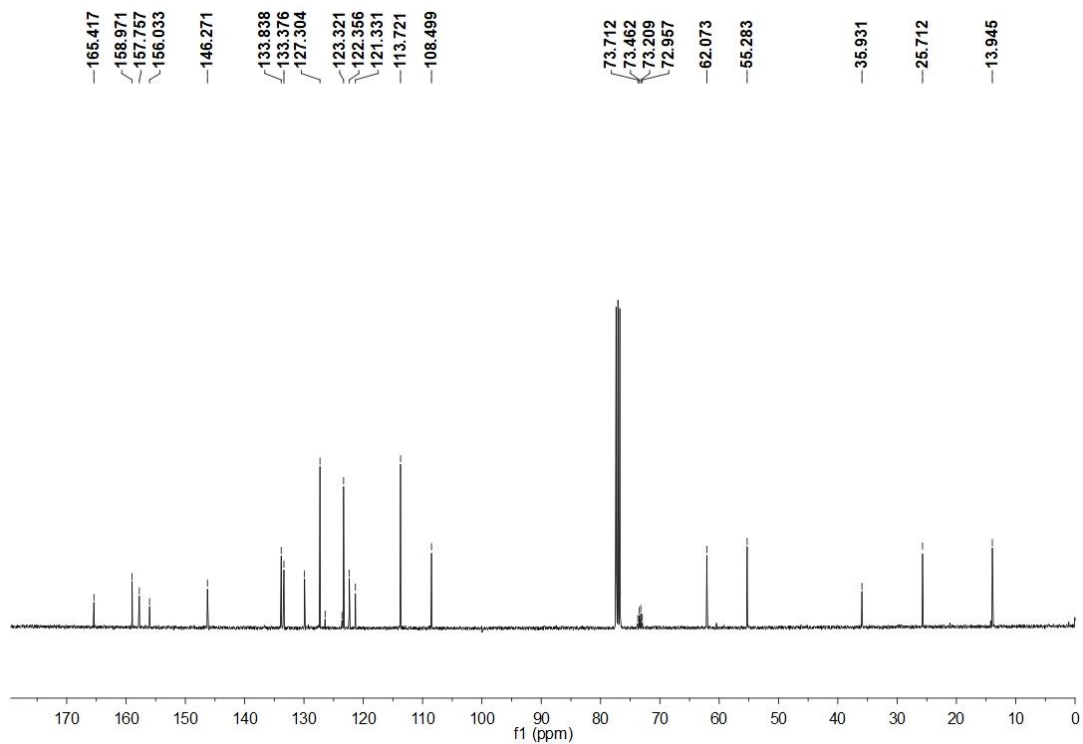
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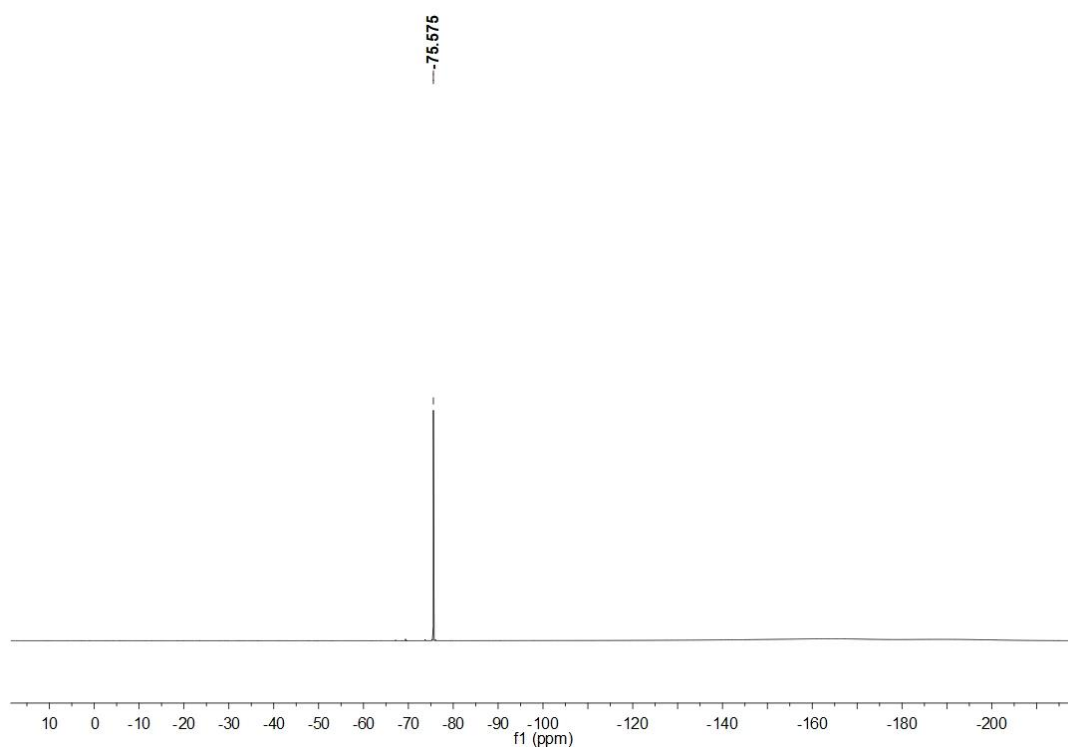
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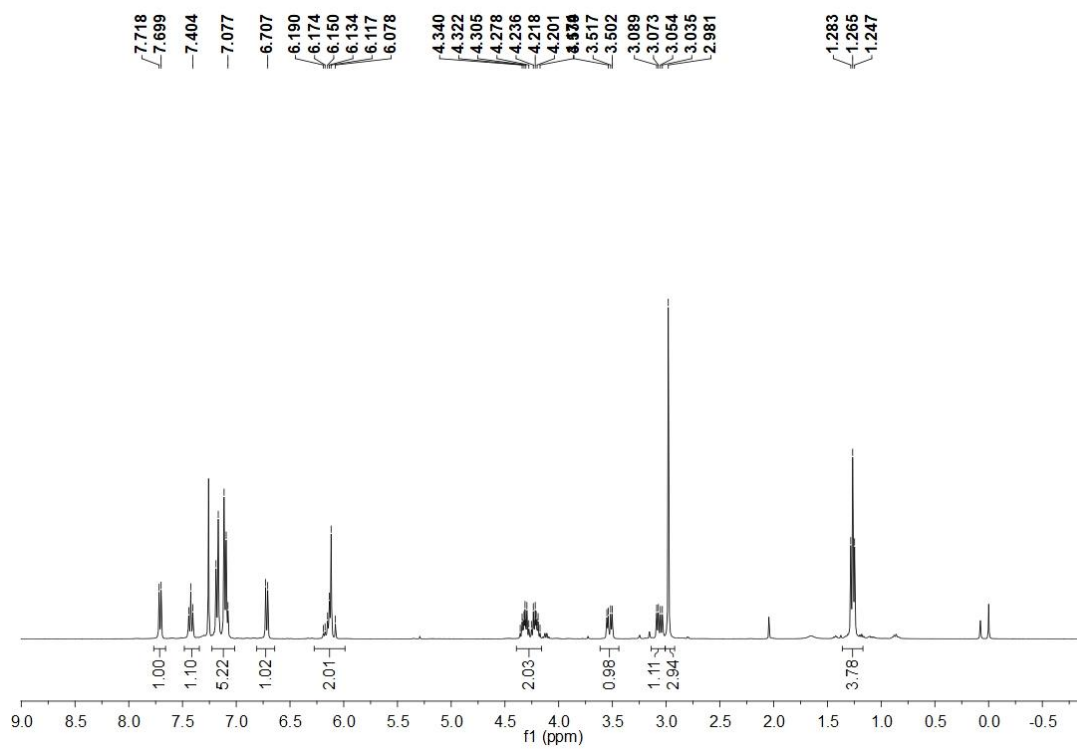
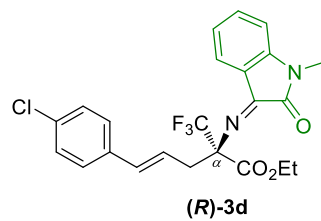
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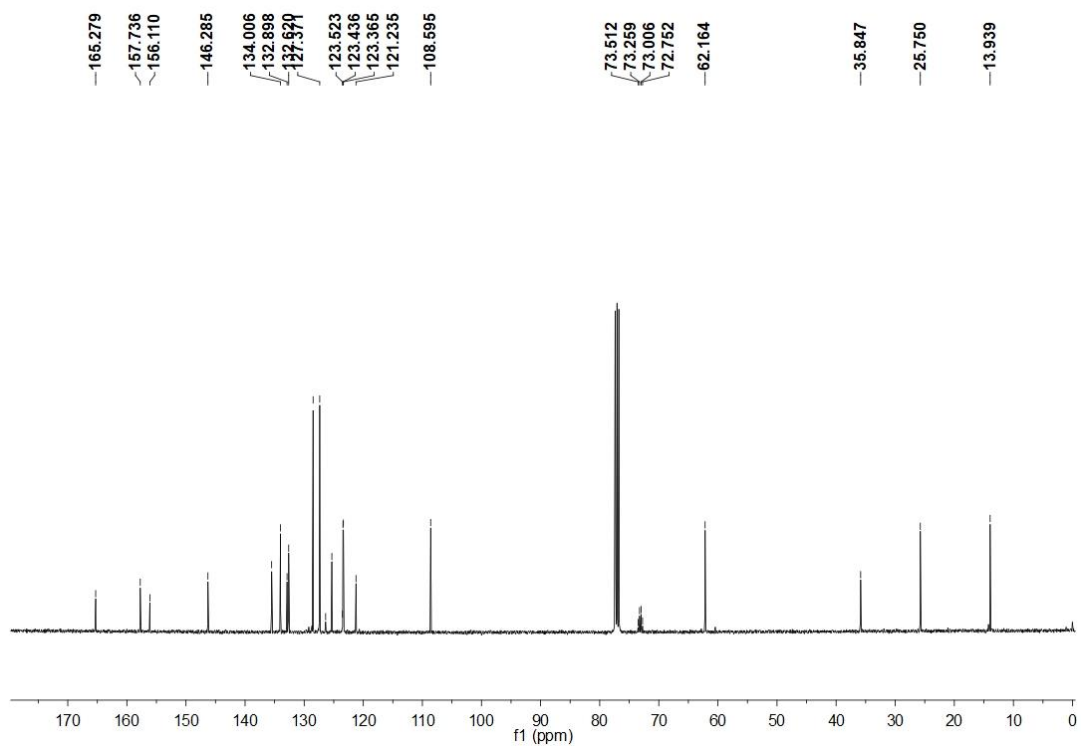
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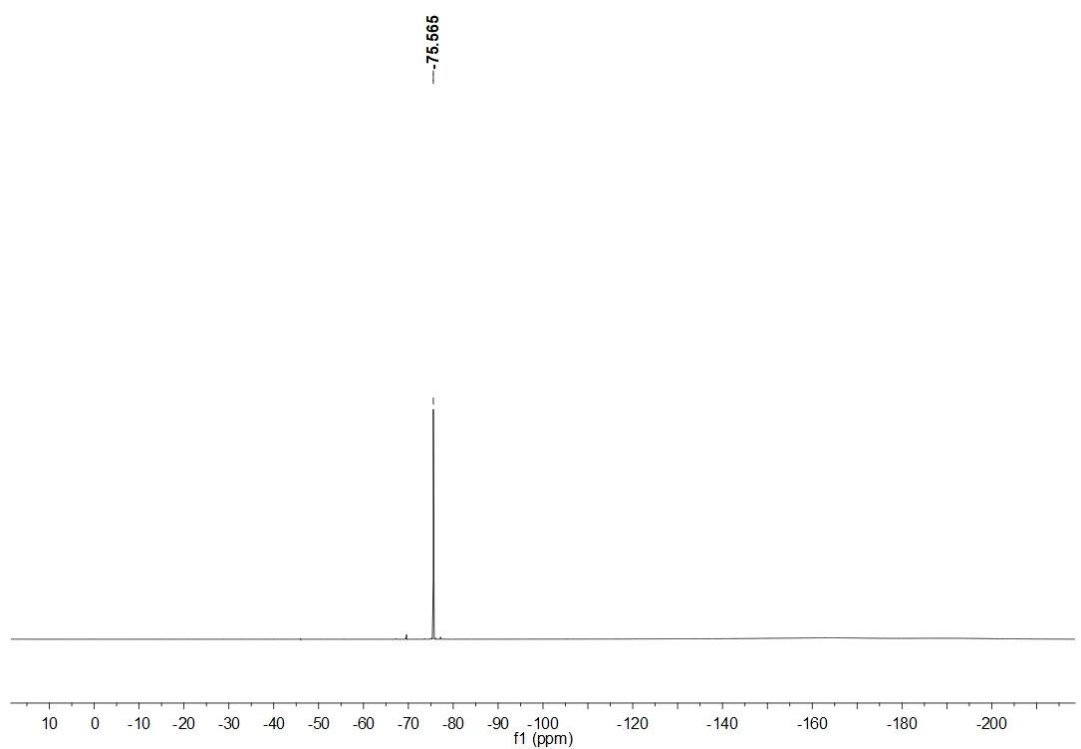
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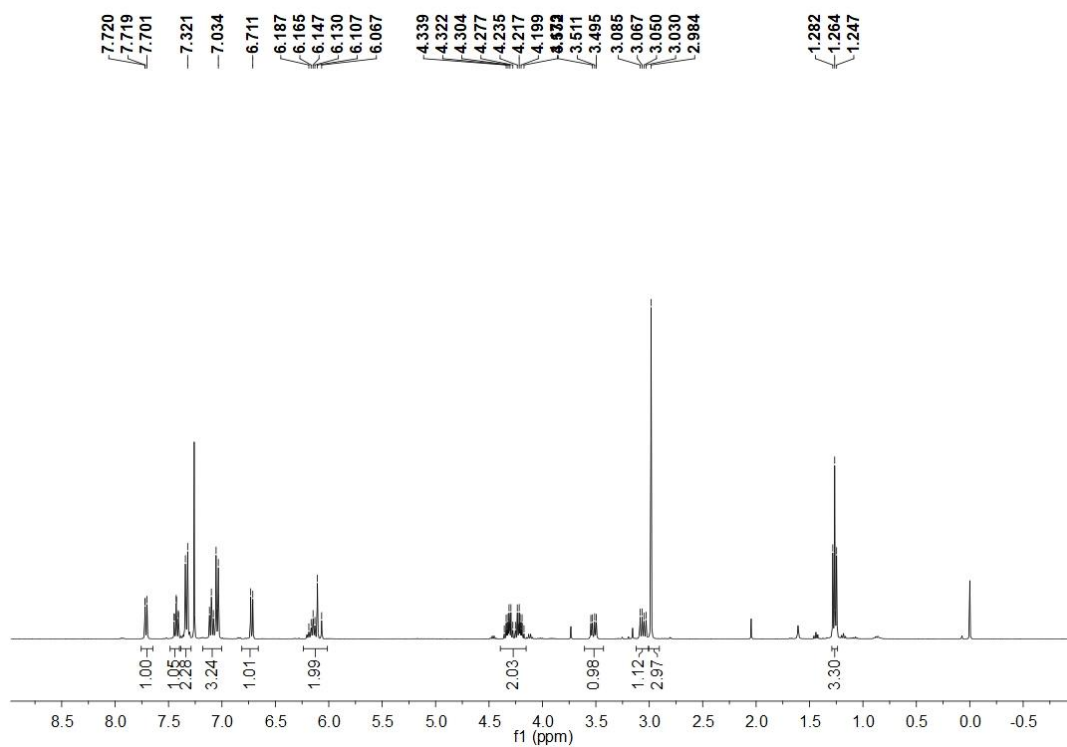
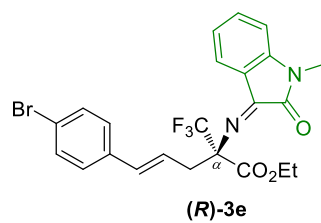
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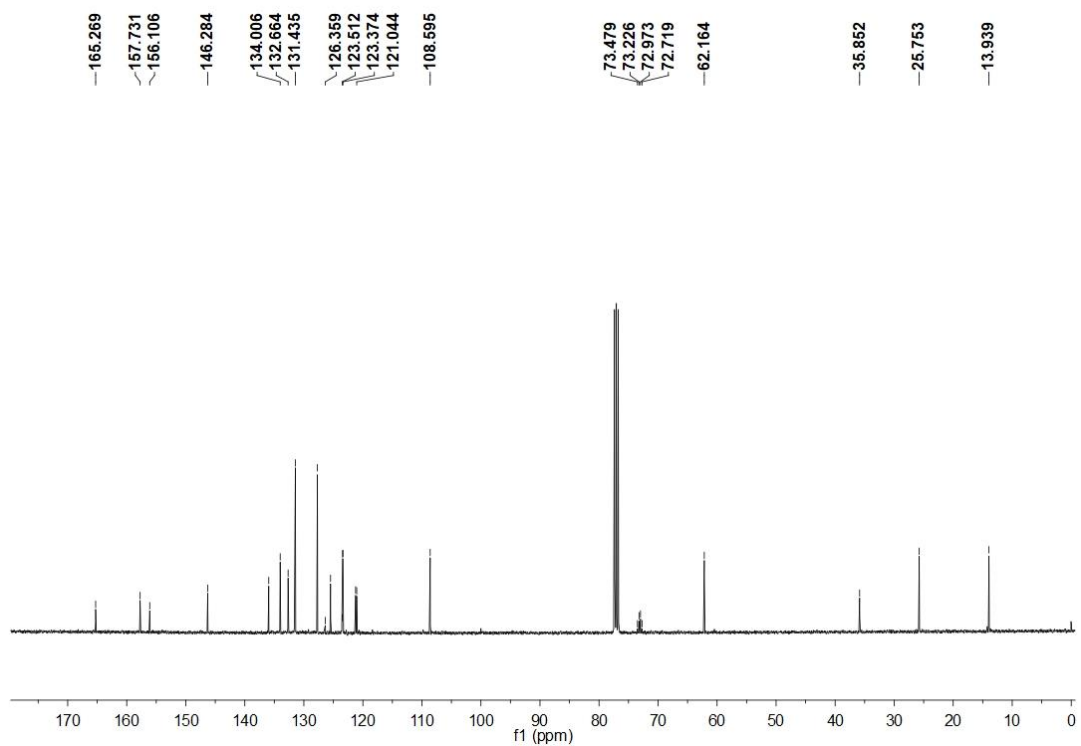
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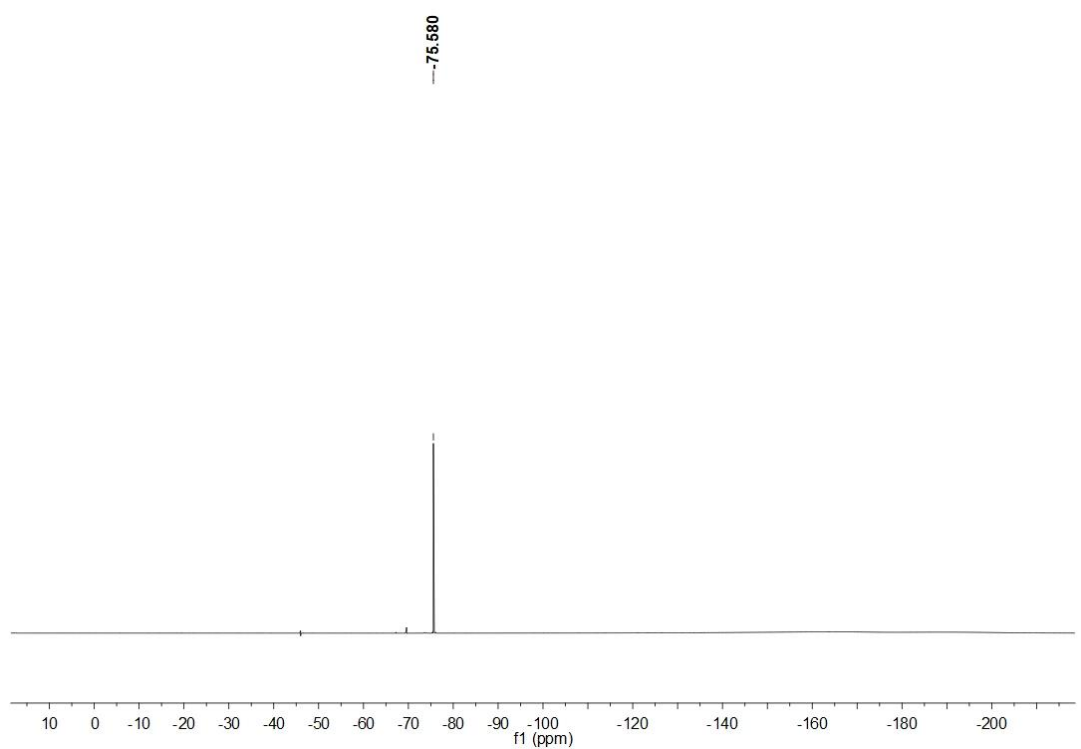
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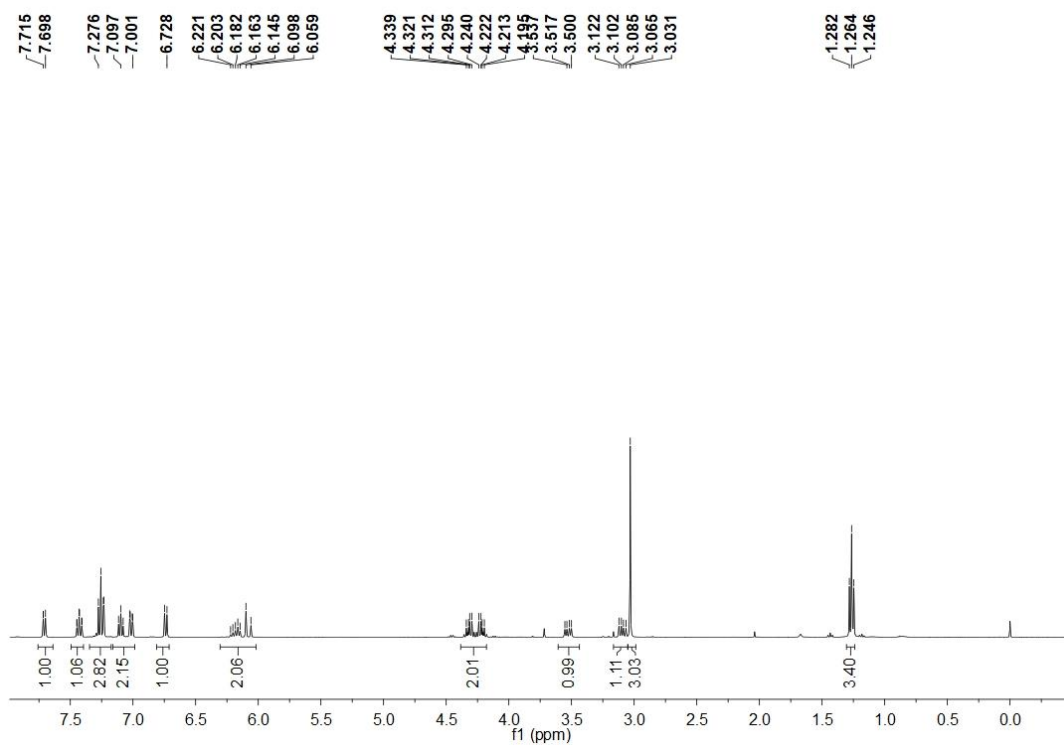
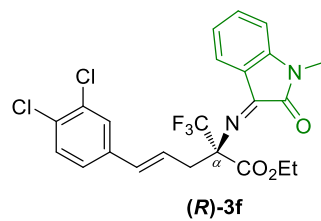
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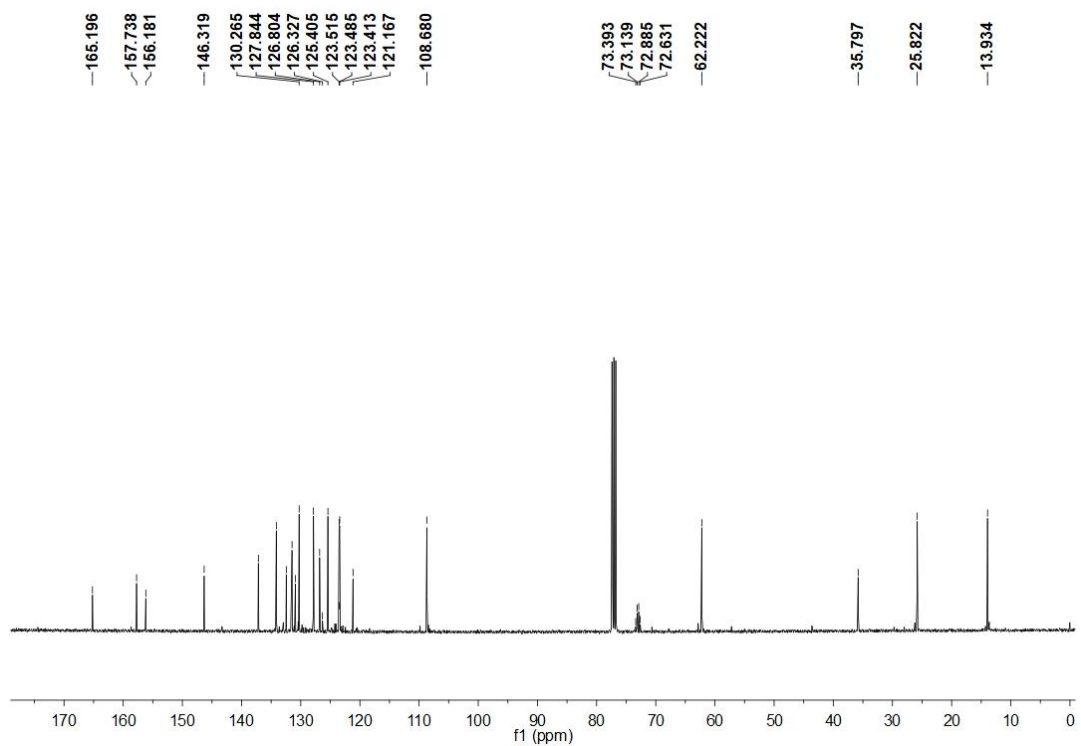
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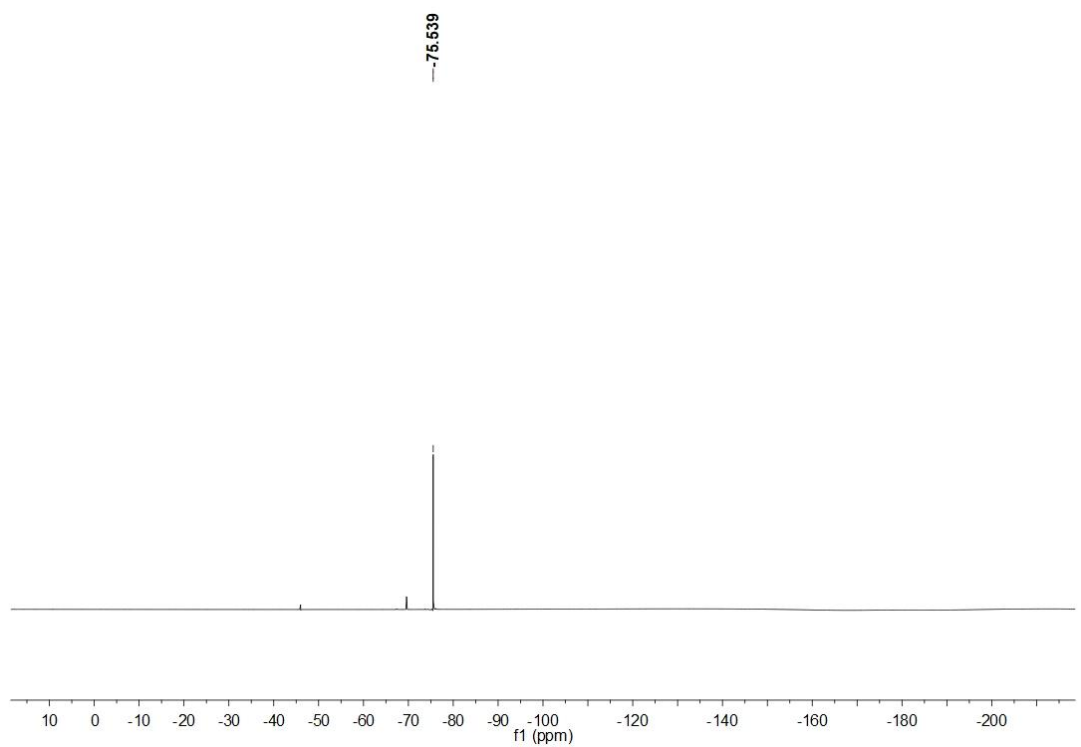
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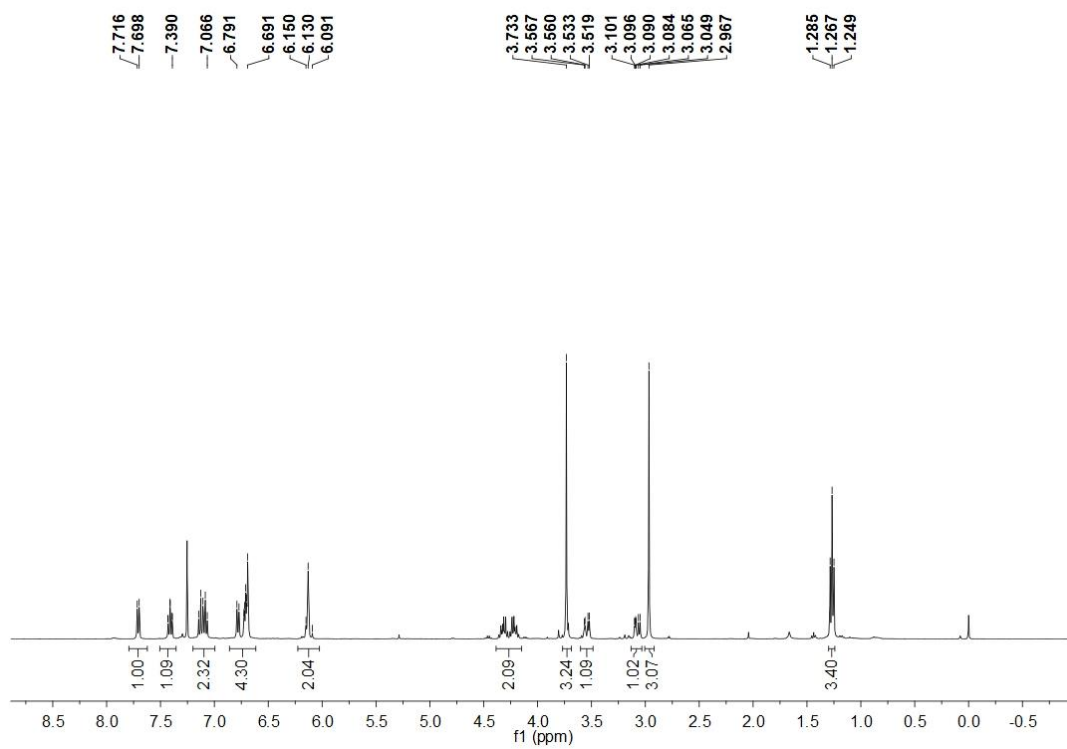
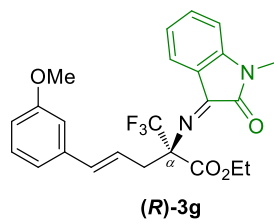
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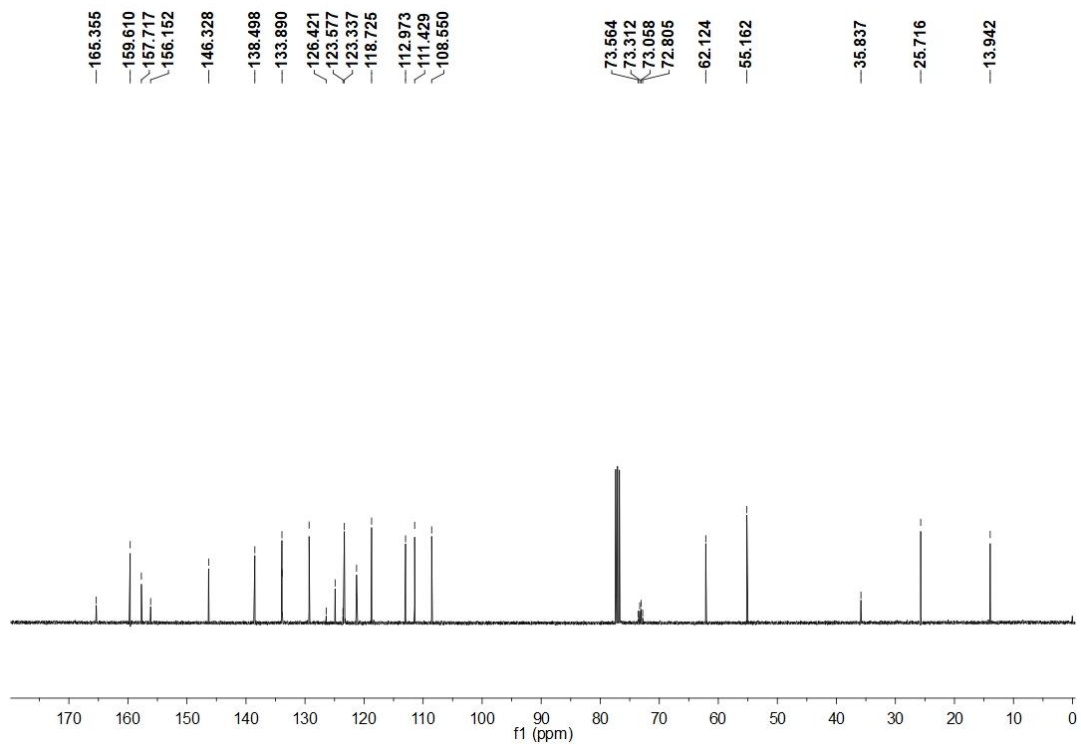
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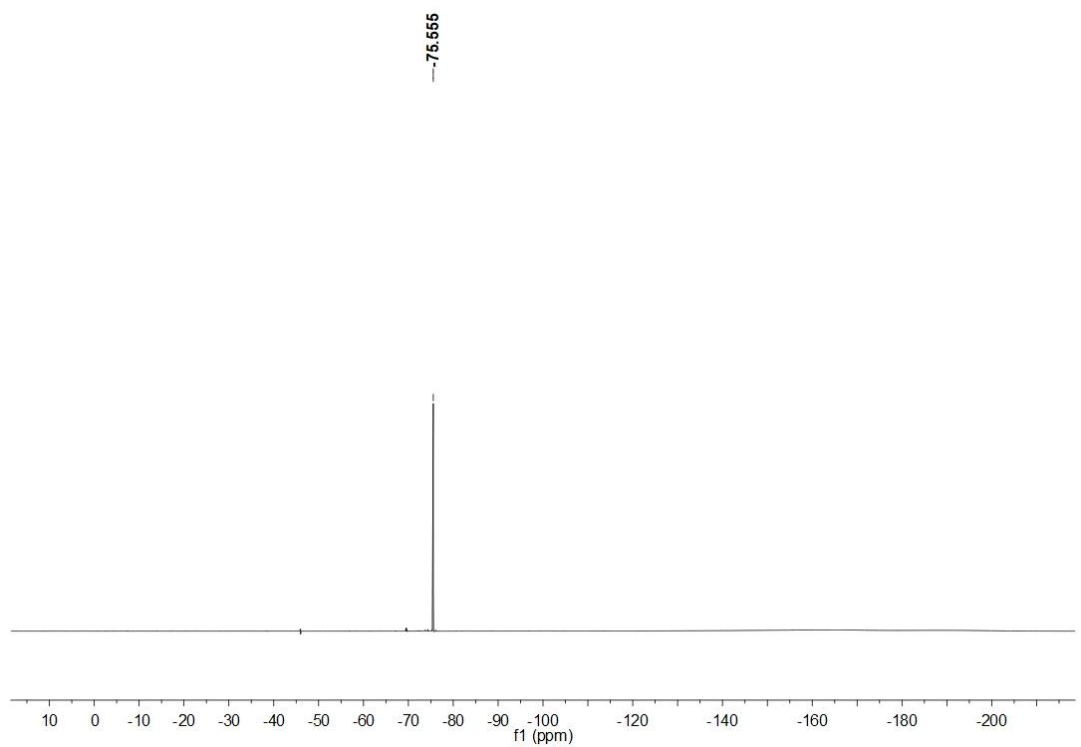
^{19}F NMR (376 MHz, CDCl_3)



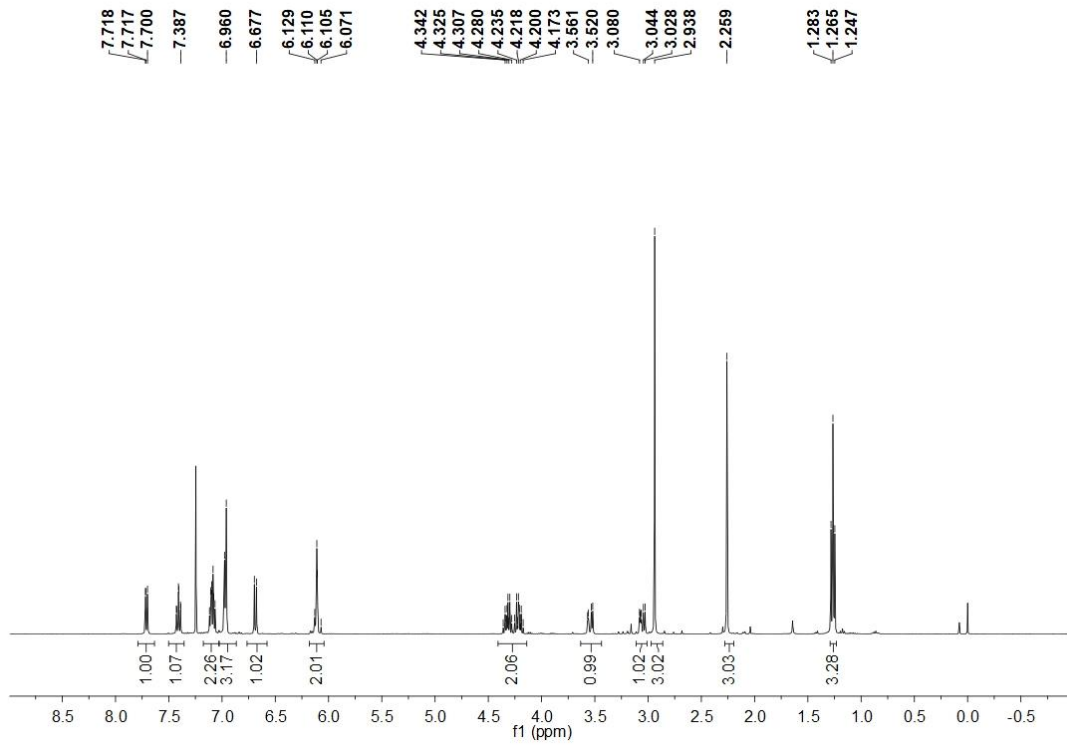
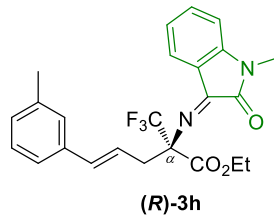
^1H NMR (400 MHz, CDCl_3)



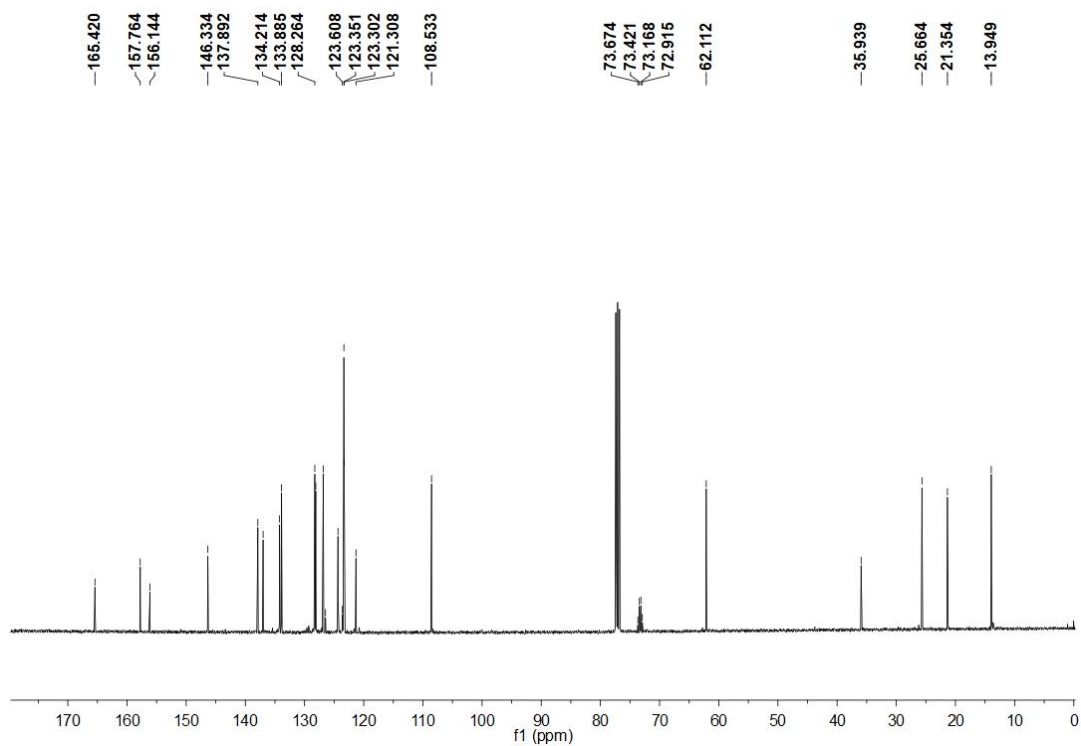
^{13}C NMR (101 MHz, CDCl_3)



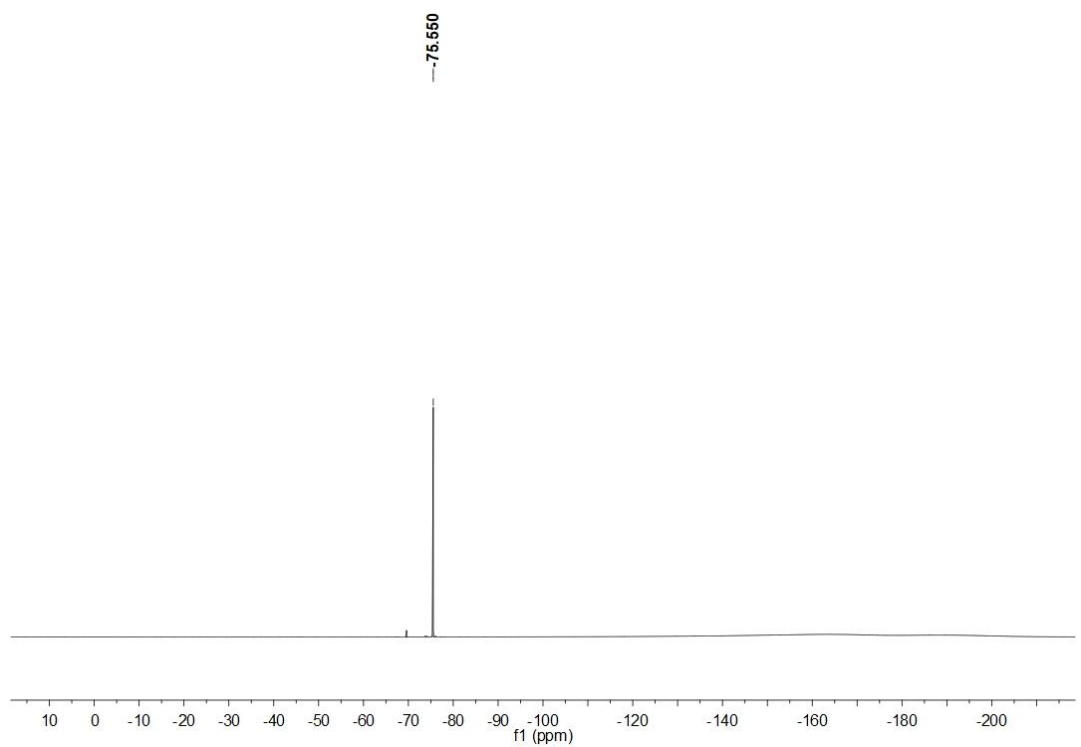
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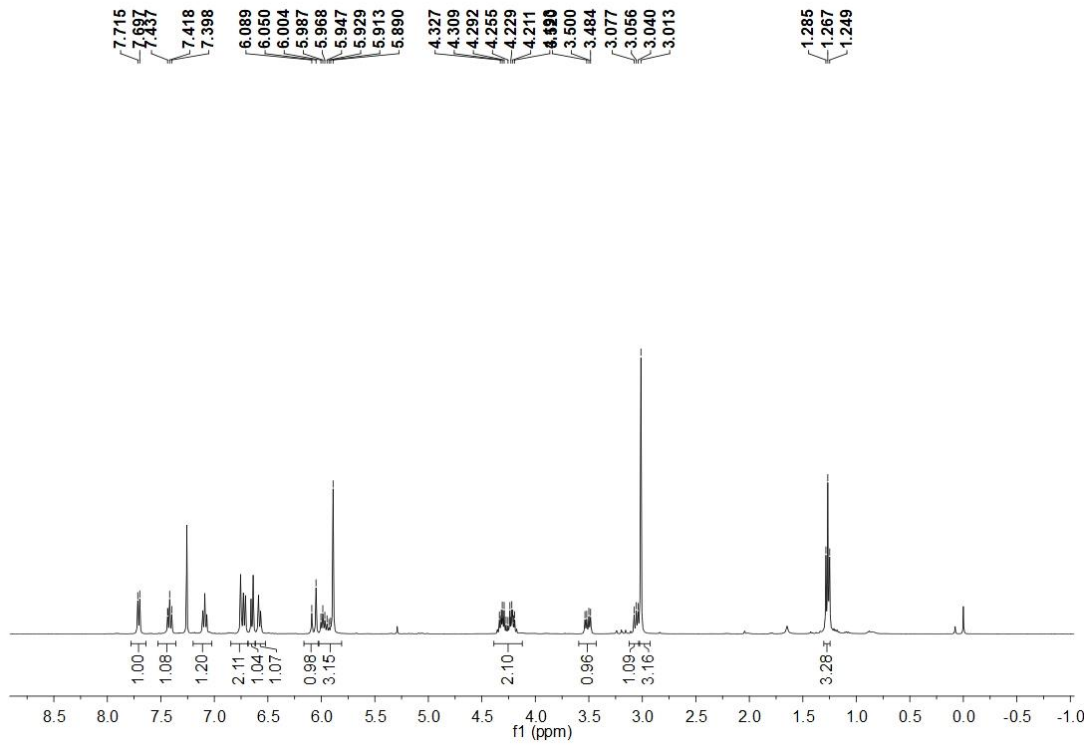
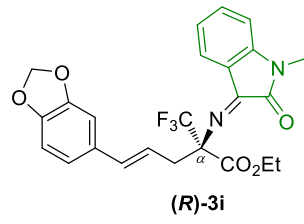
^1H NMR (400 MHz, CDCl_3)



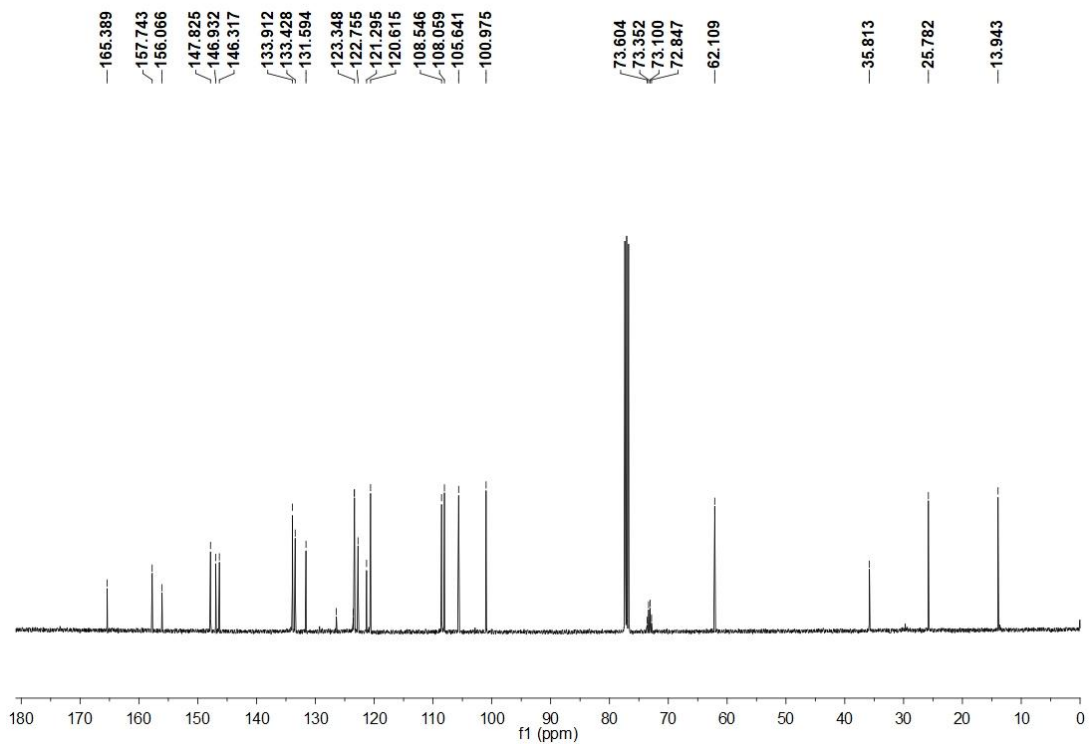
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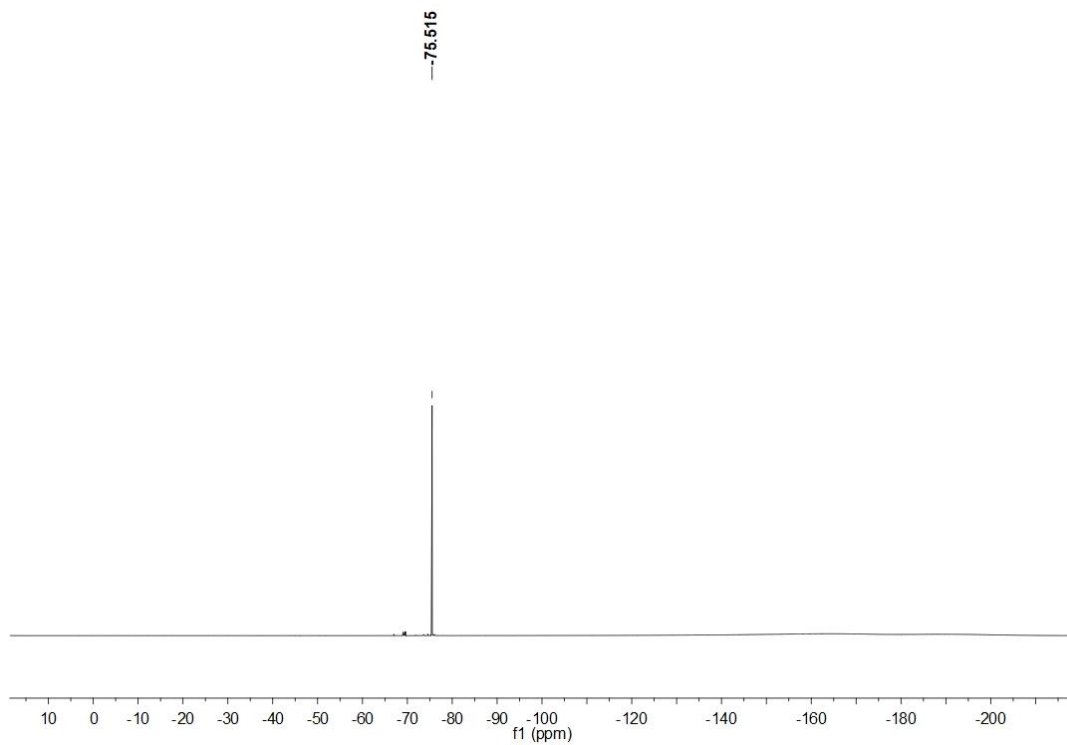
^{19}F NMR (376 MHz, CDCl_3)



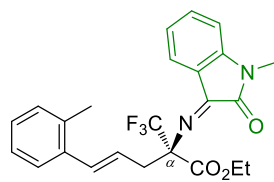
^1H NMR (400 MHz, CDCl_3)



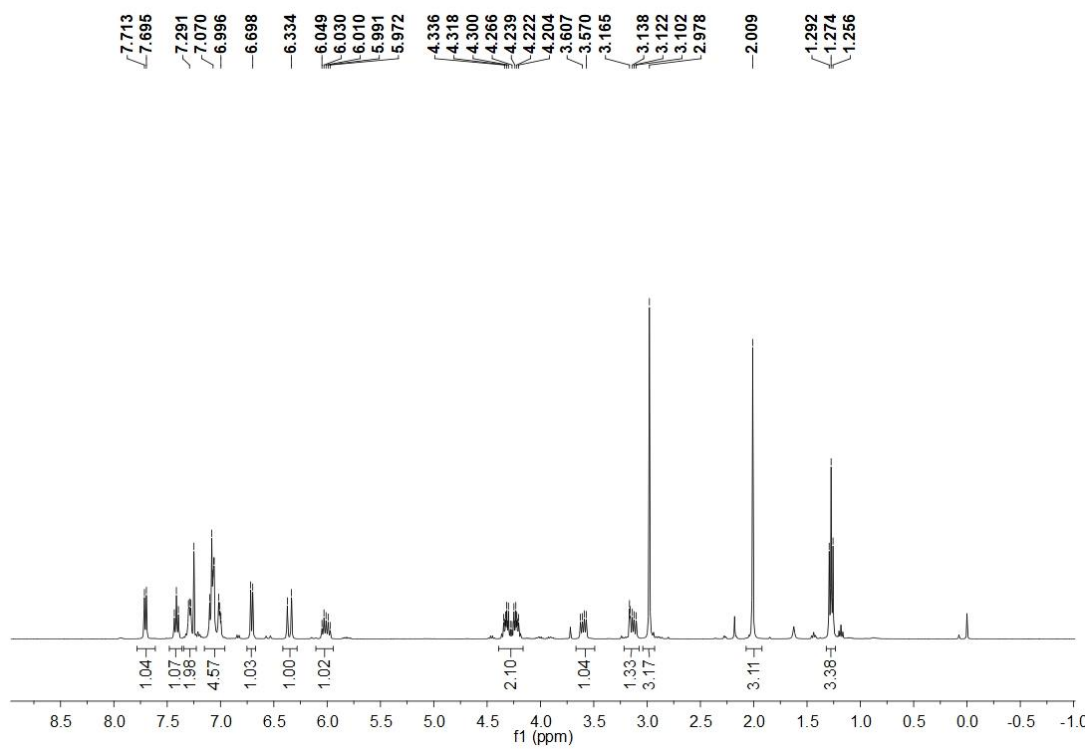
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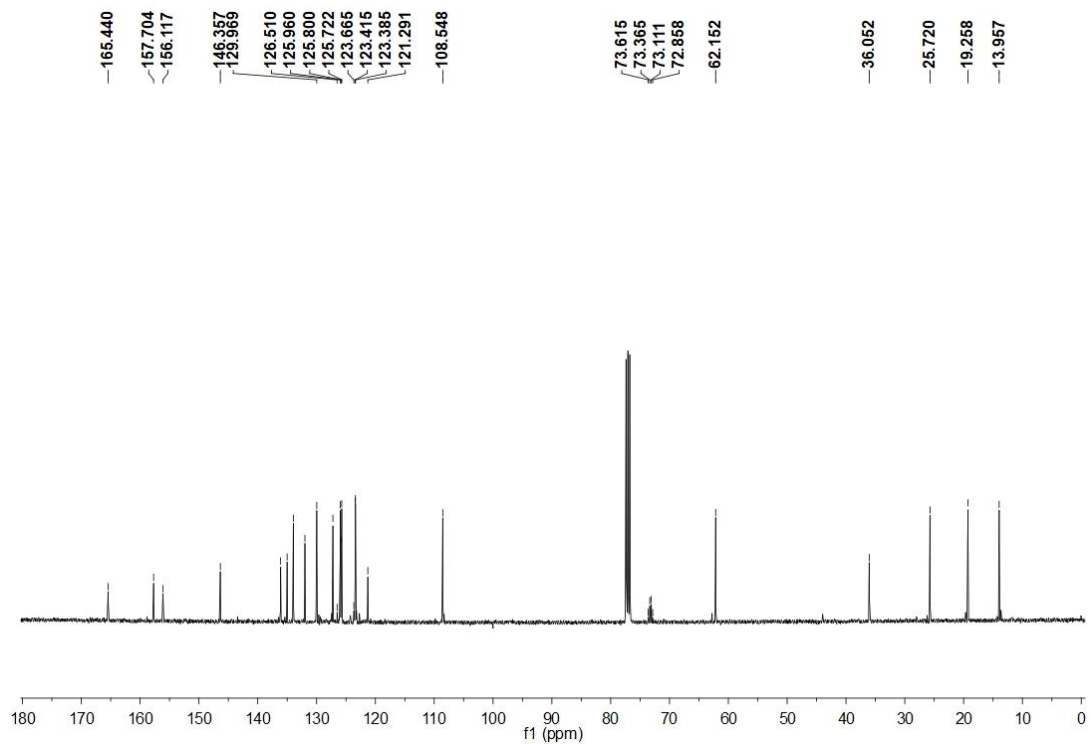
^{19}F NMR (376 MHz, CDCl_3)



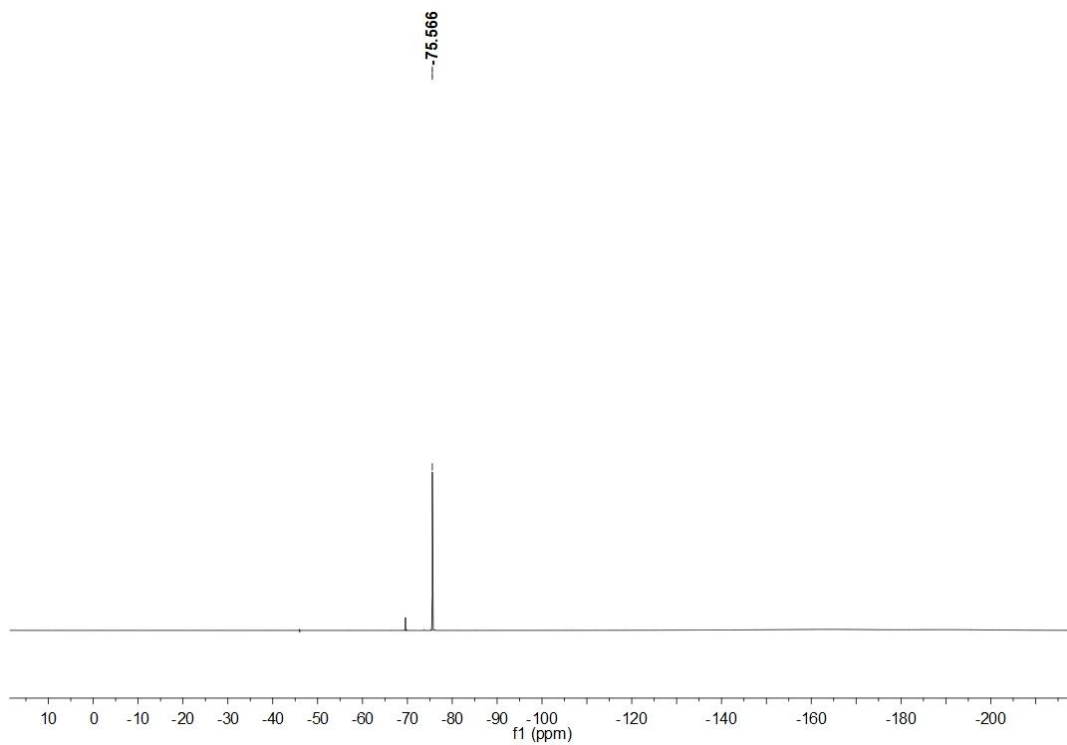
(R)-3j



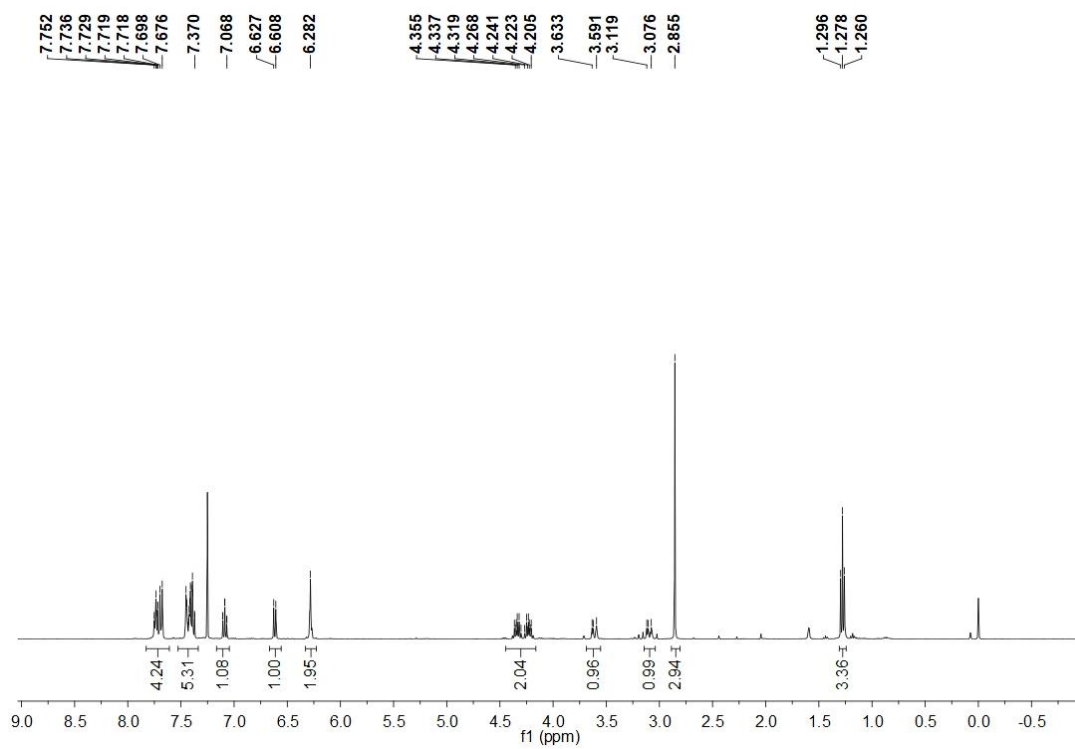
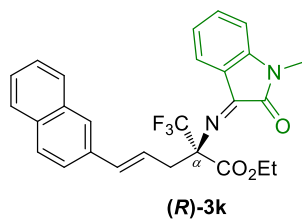
¹H NMR (400 MHz, CDCl₃)



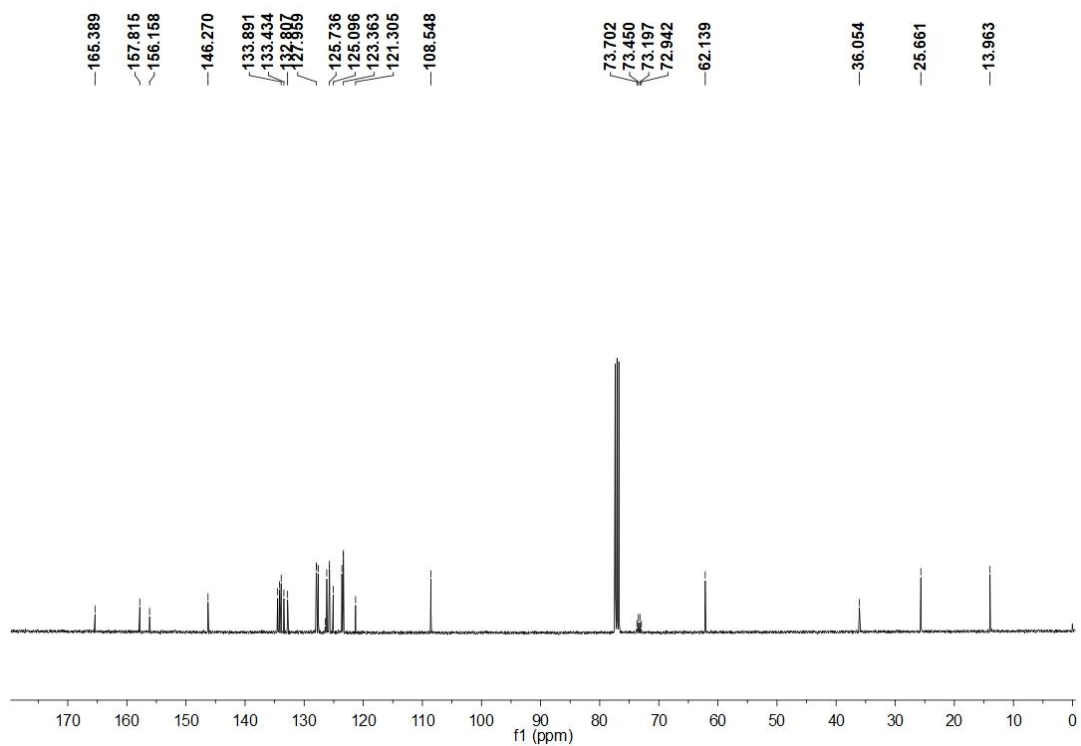
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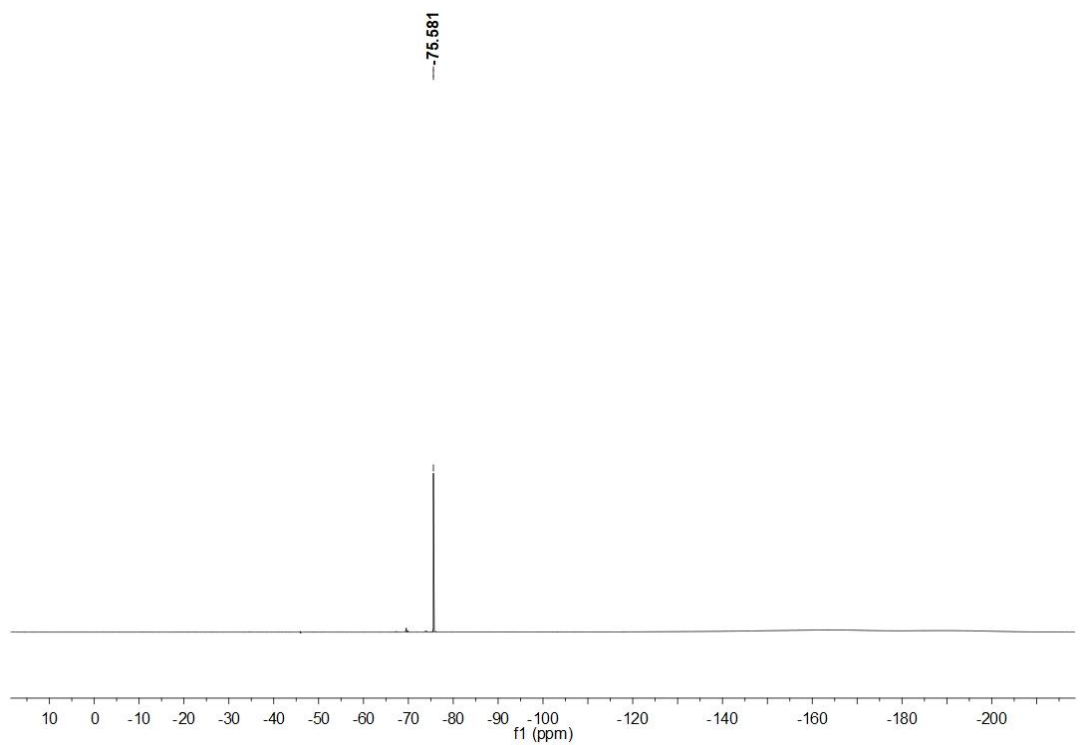
^{19}F NMR (376 MHz, CDCl_3)



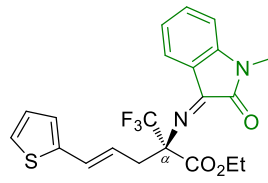
^1H NMR (400 MHz, CDCl_3)



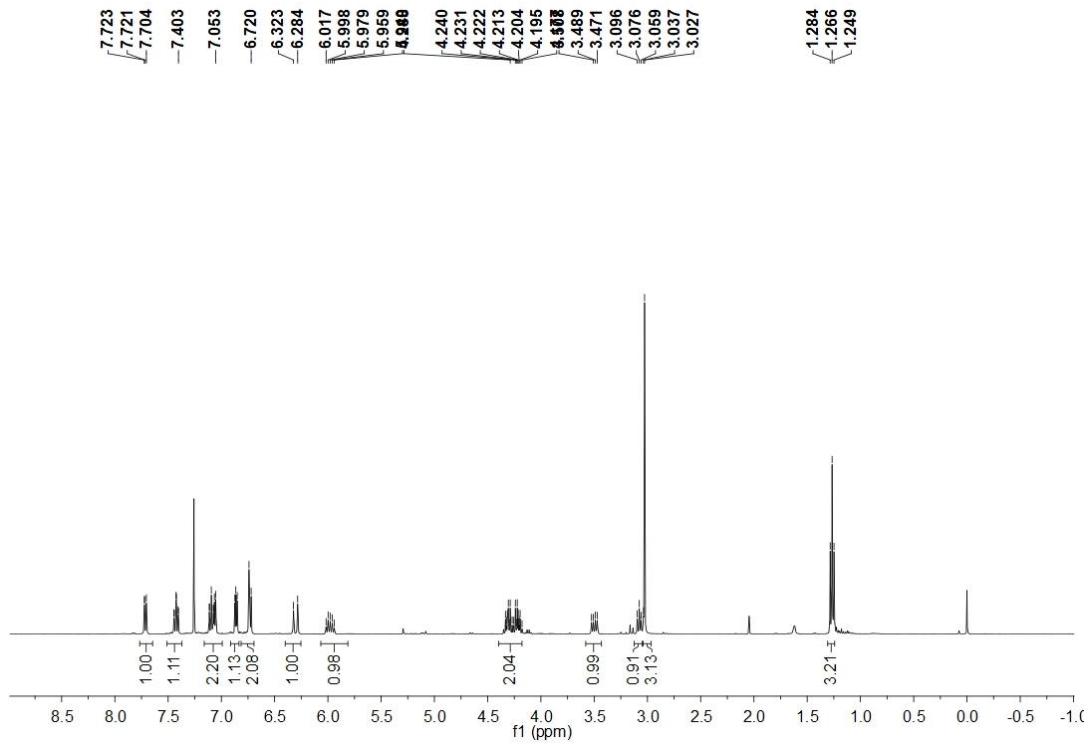
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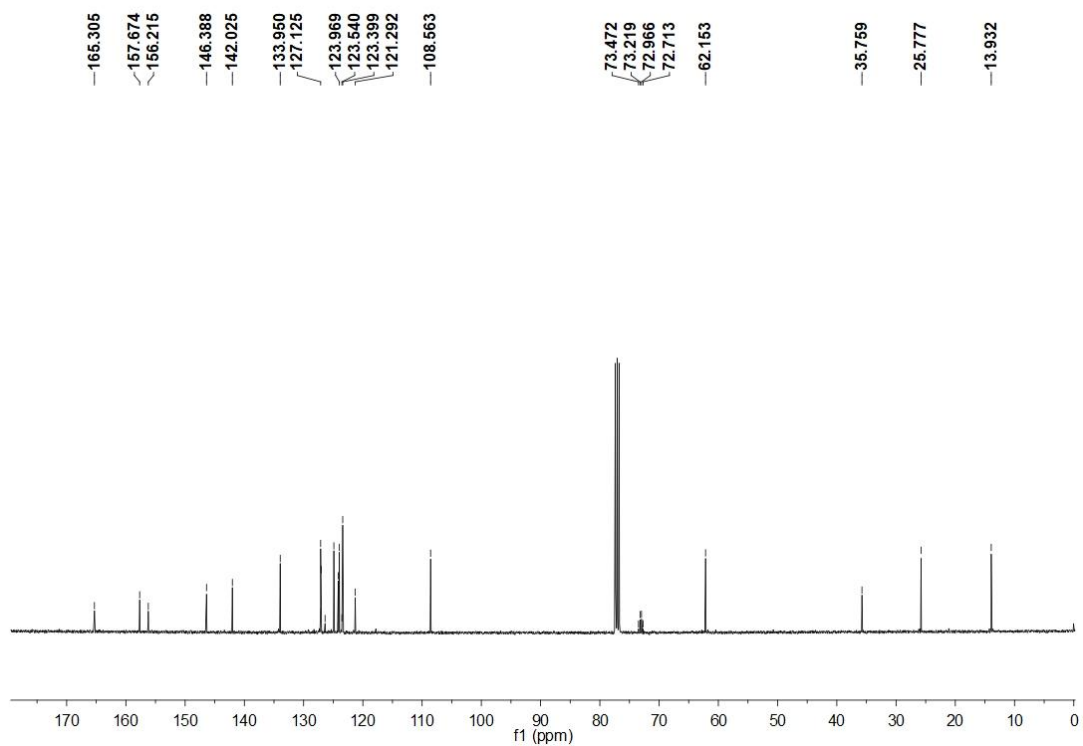
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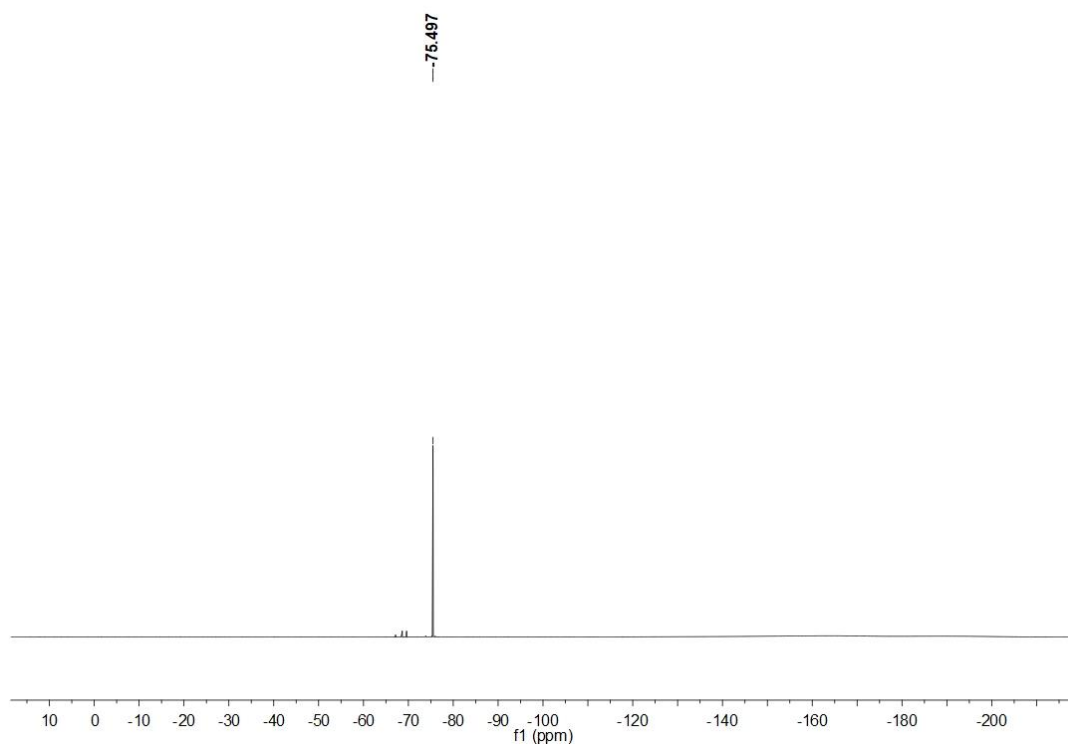
(R)-31



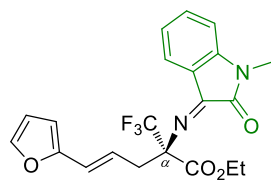
¹H NMR (400 MHz, CDCl₃)



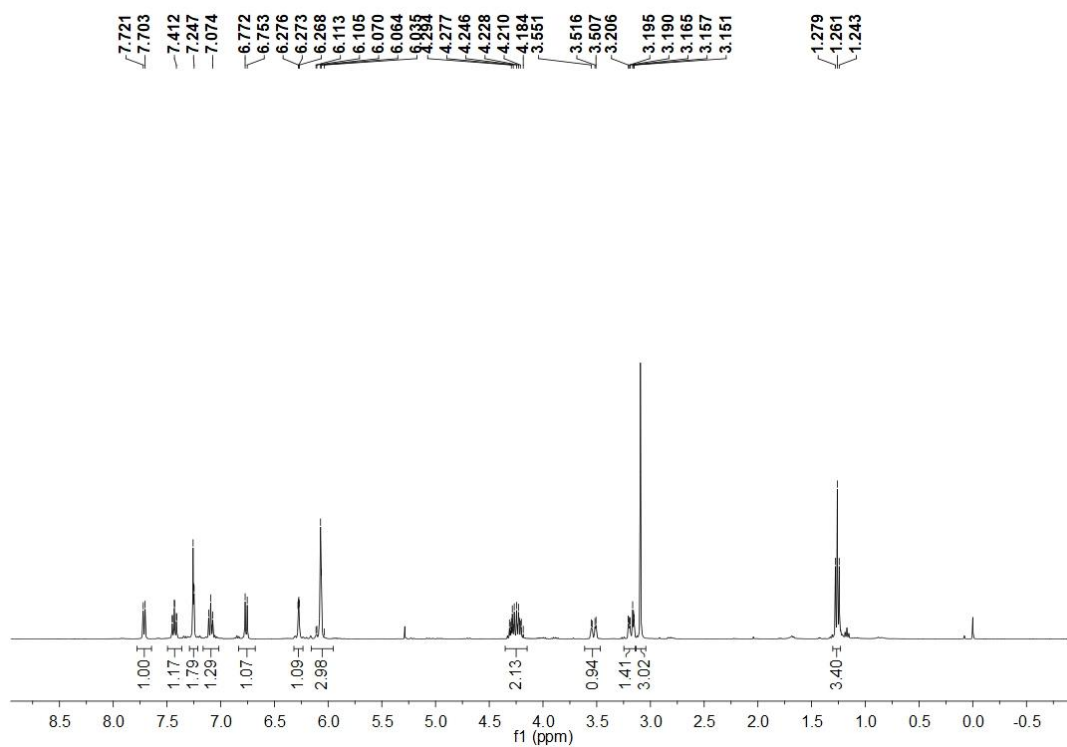
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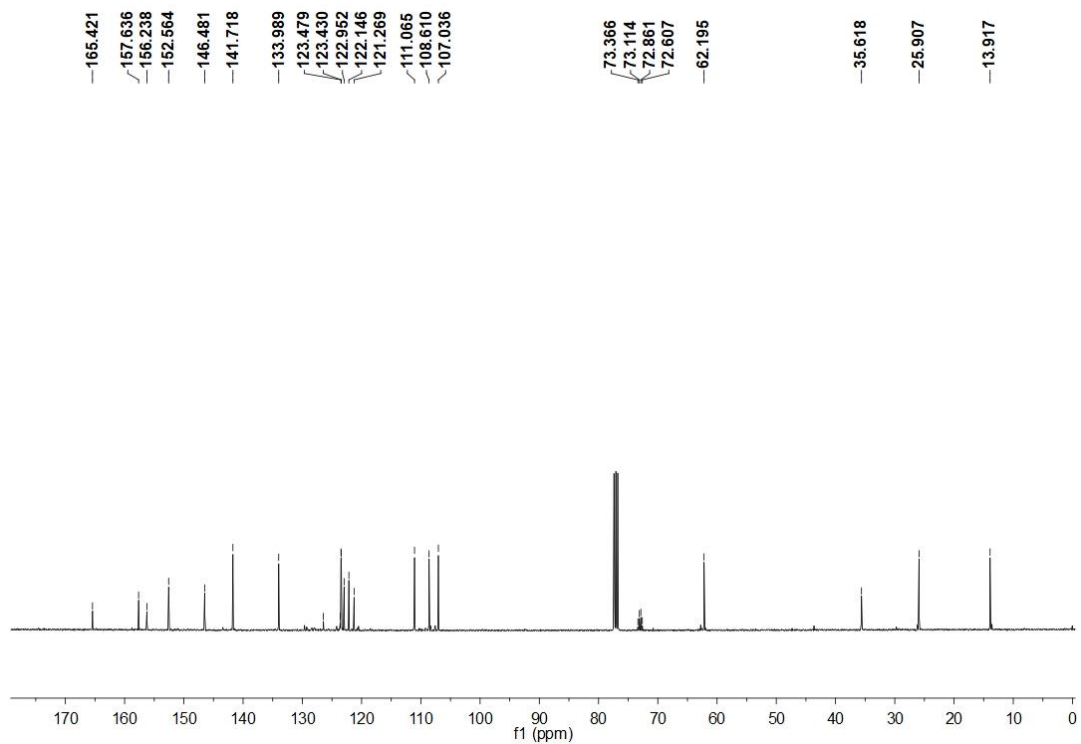
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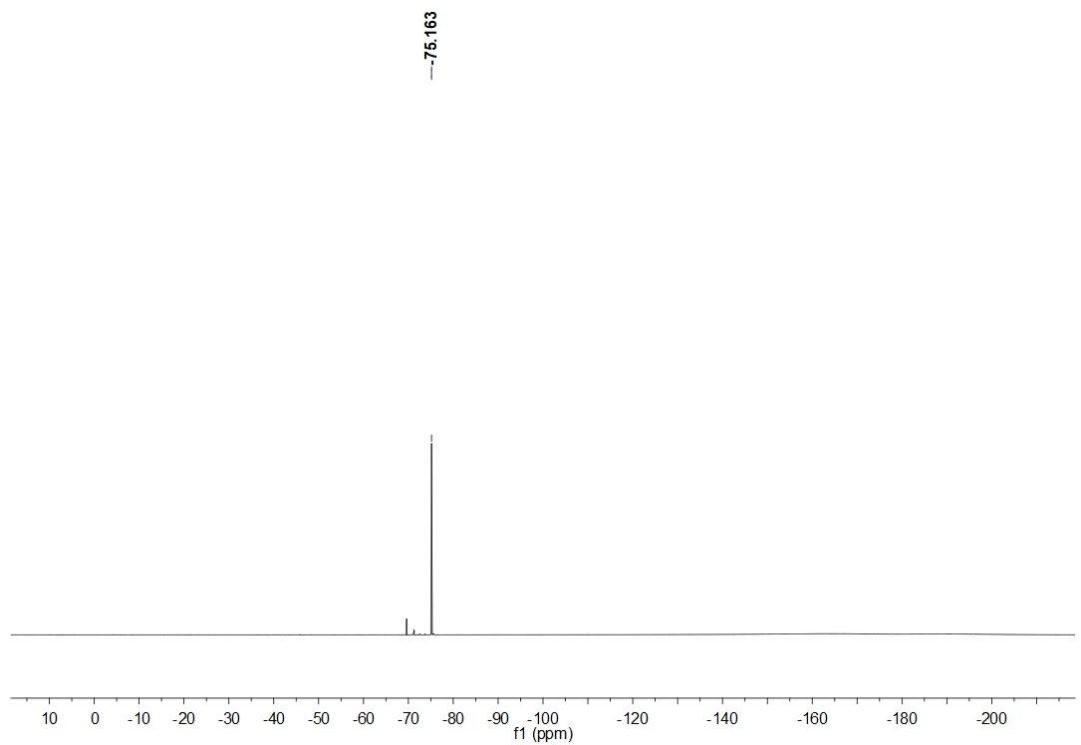
(*R*)-3m



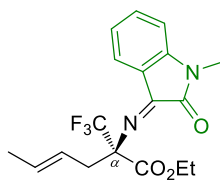
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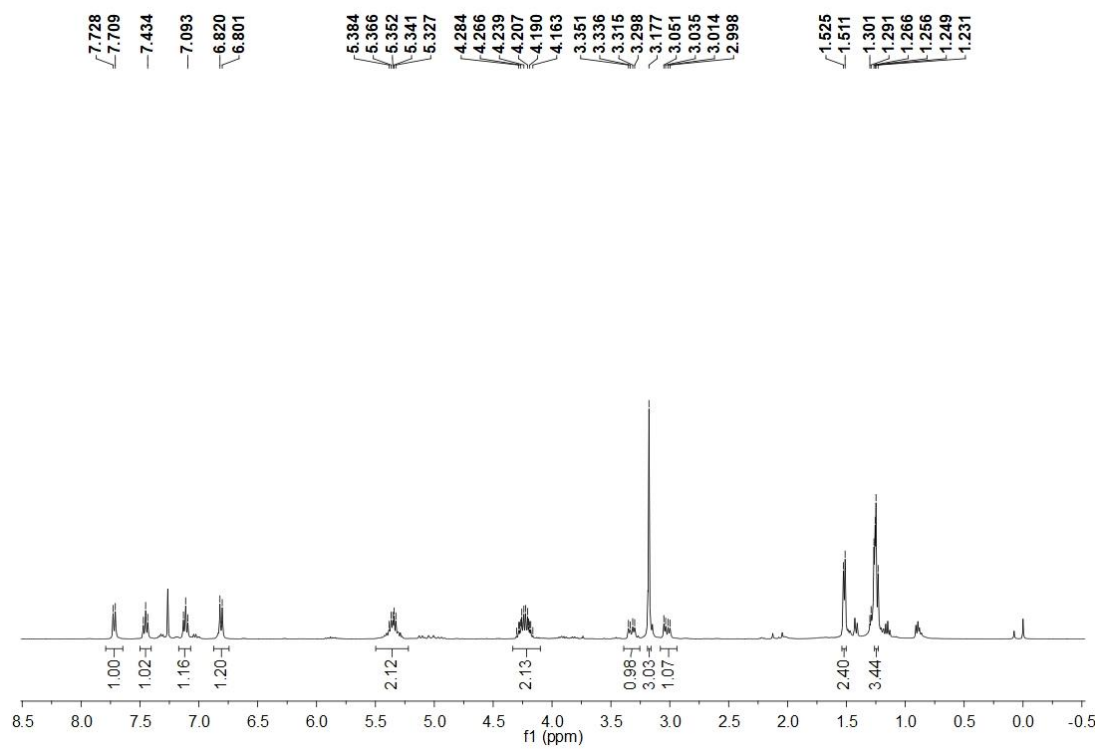
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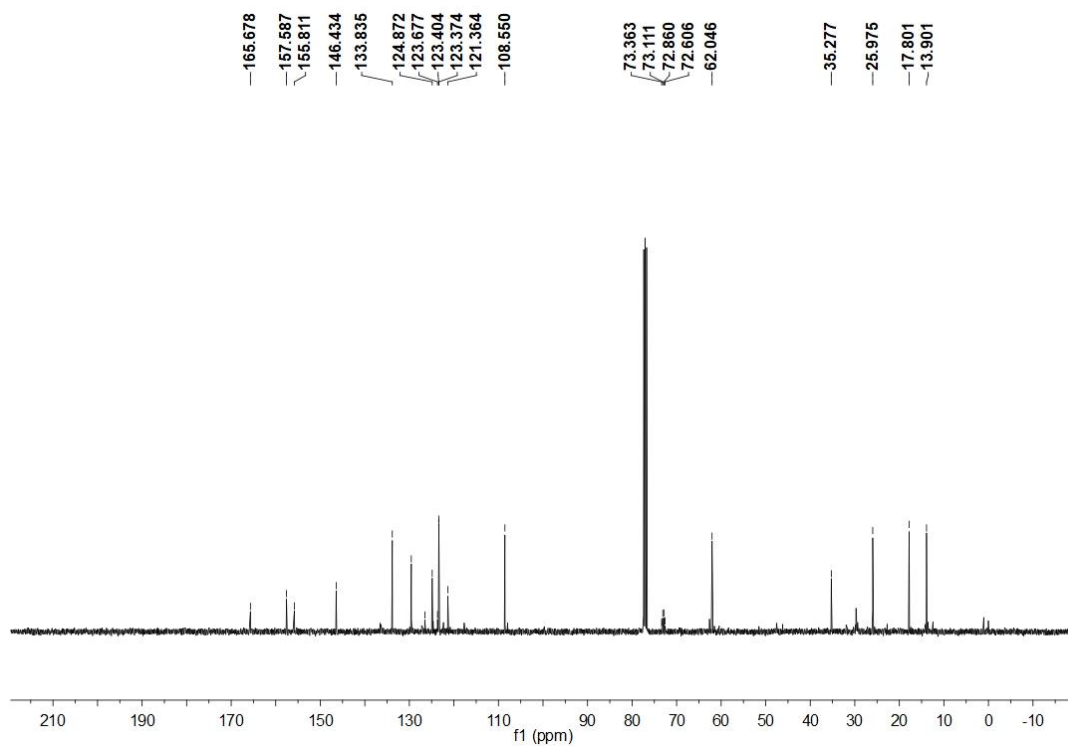
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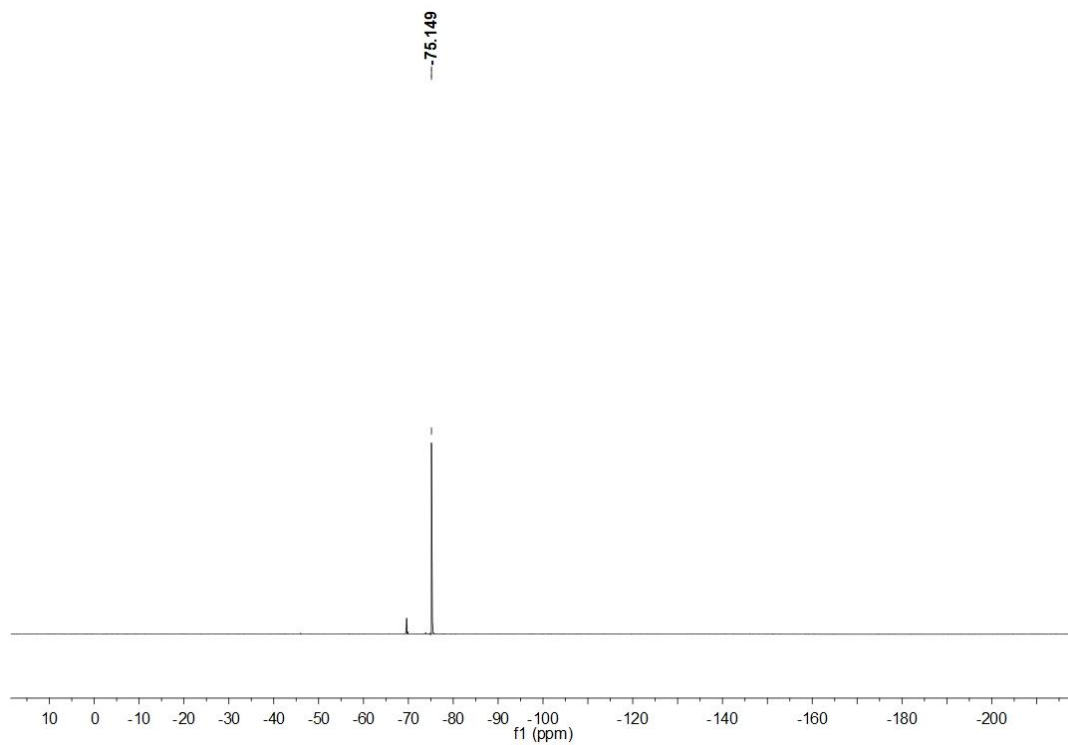
(R)-3n



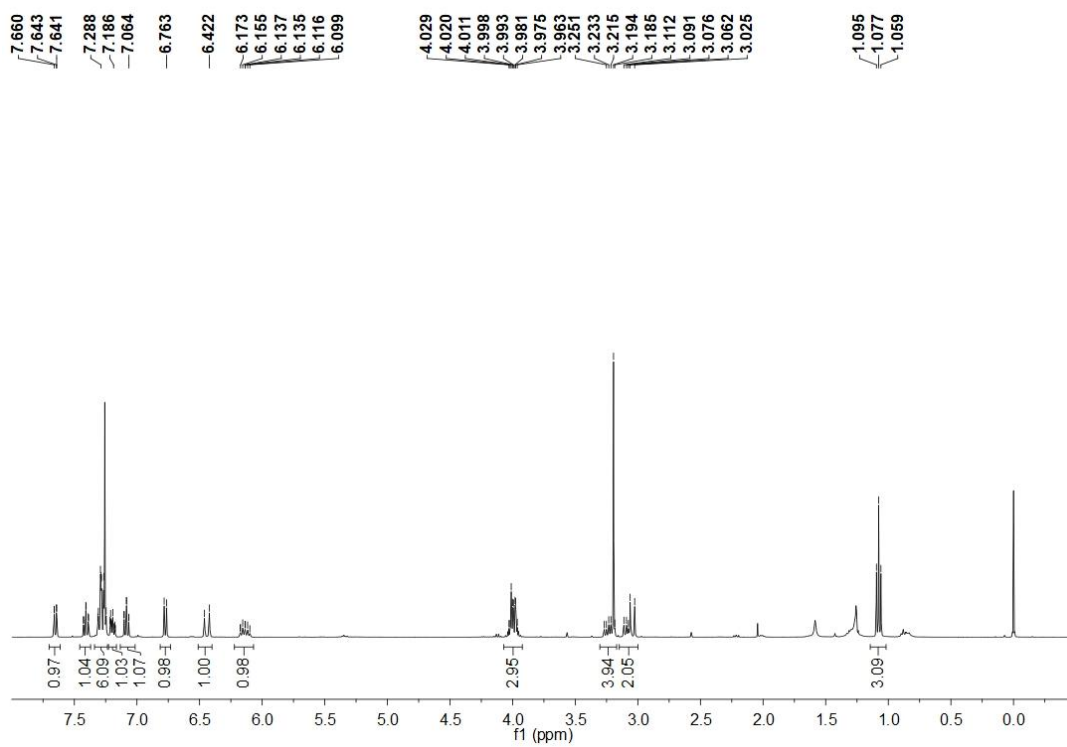
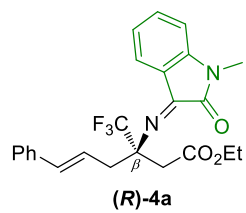
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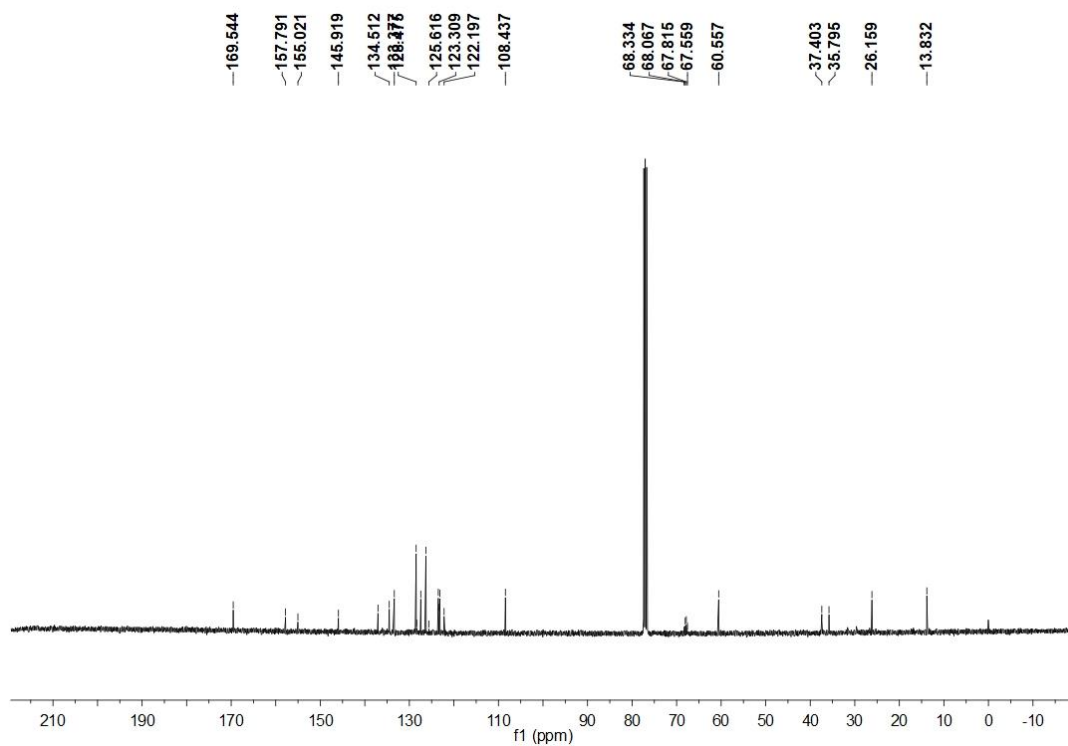
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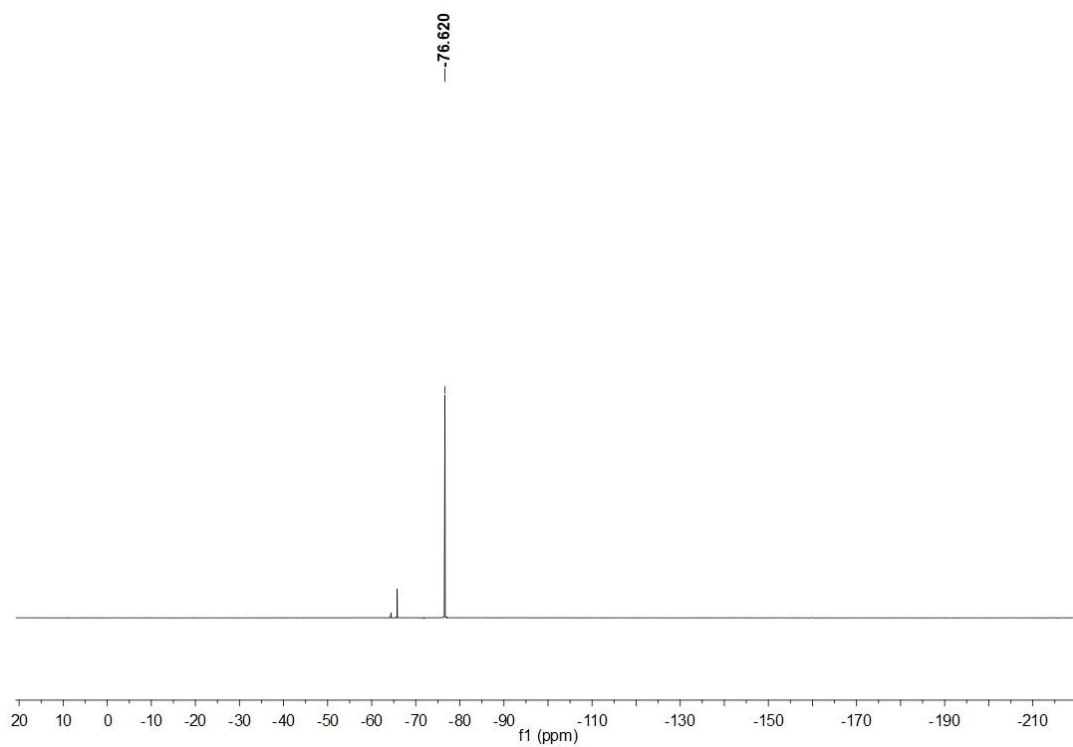
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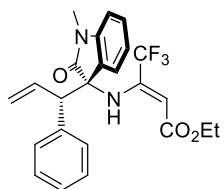
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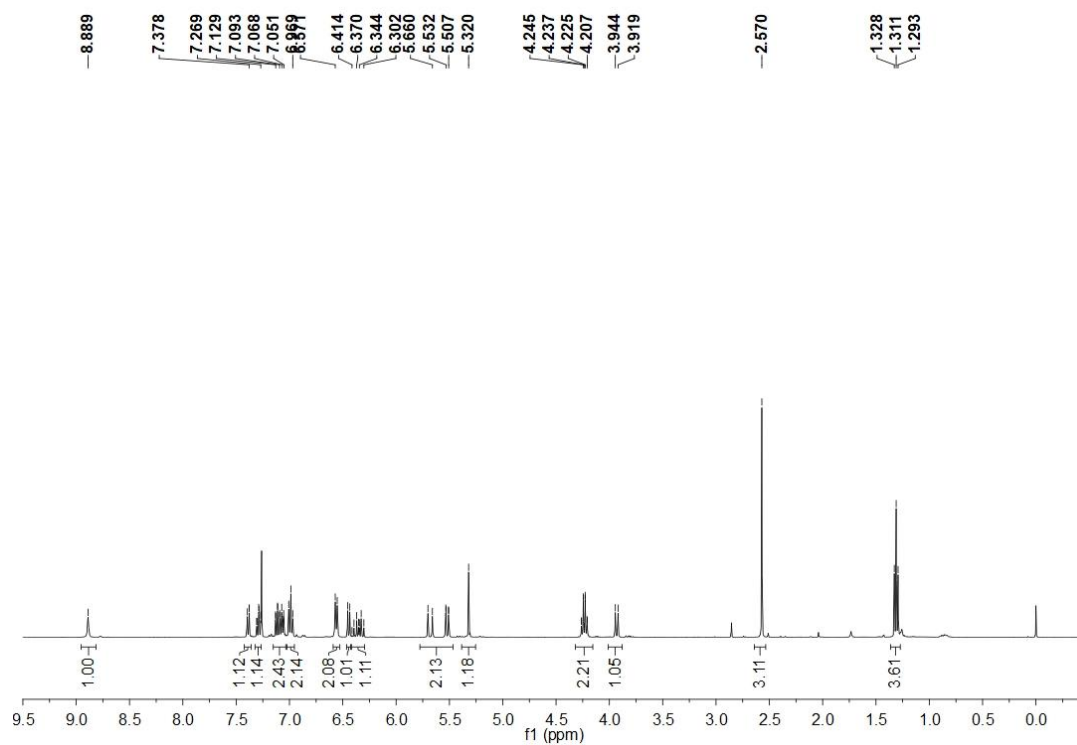
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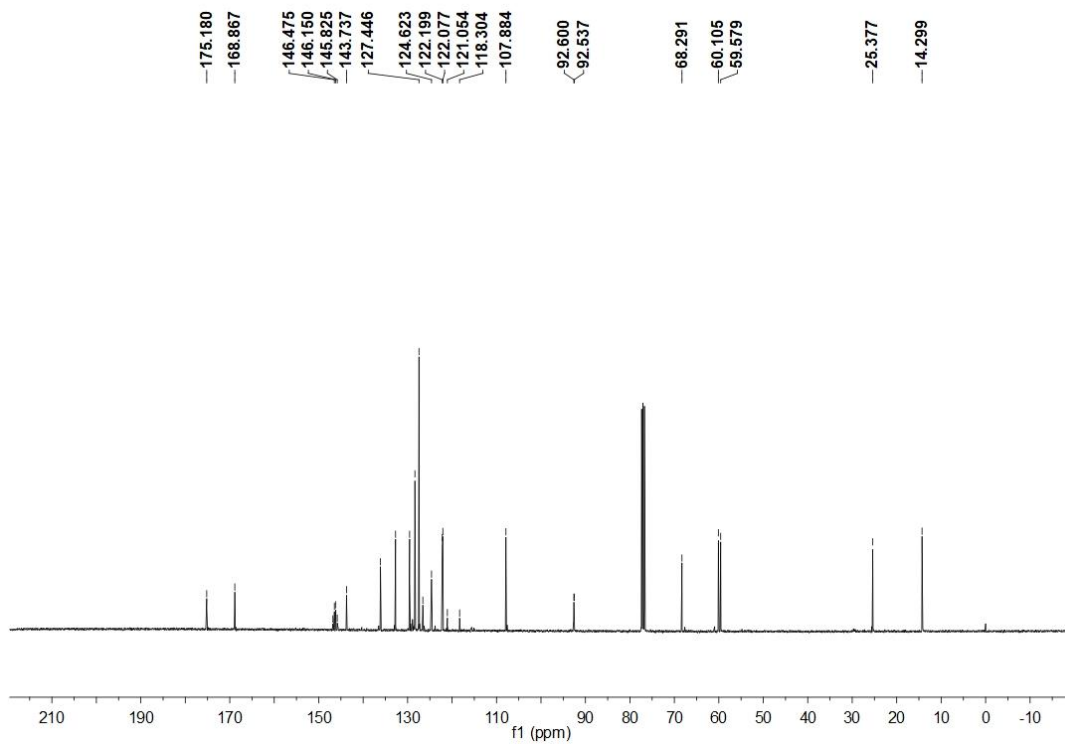
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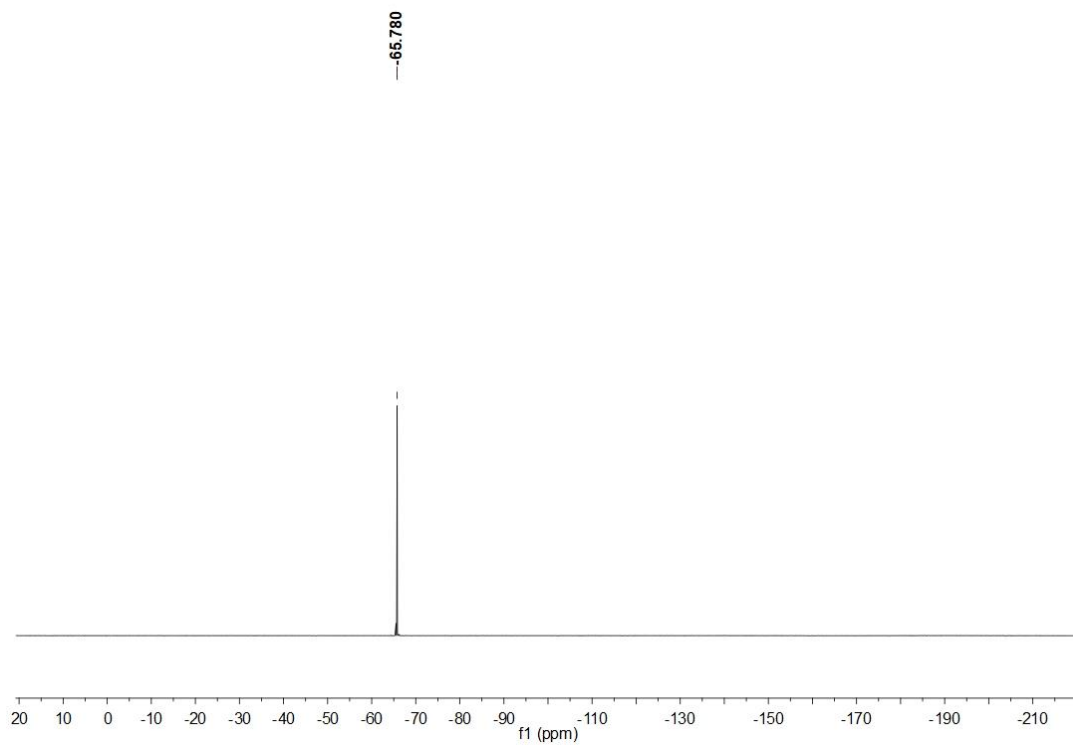
(S,S)-5a



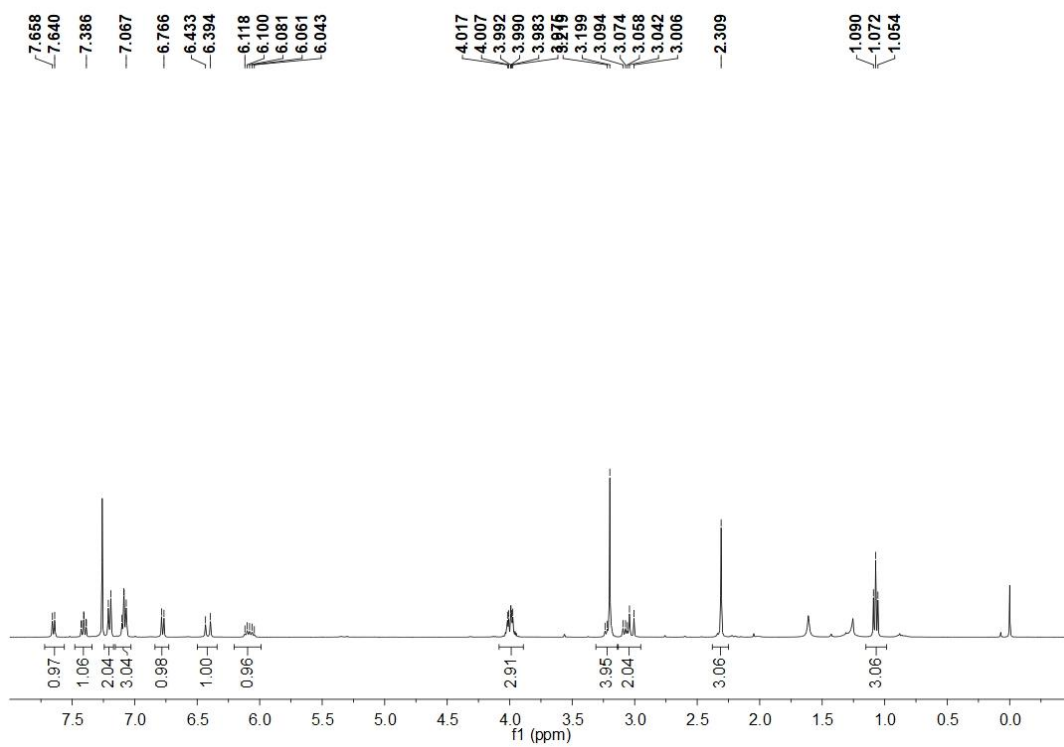
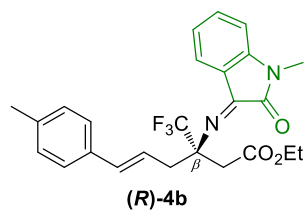
^1H NMR (400 MHz, CDCl_3)



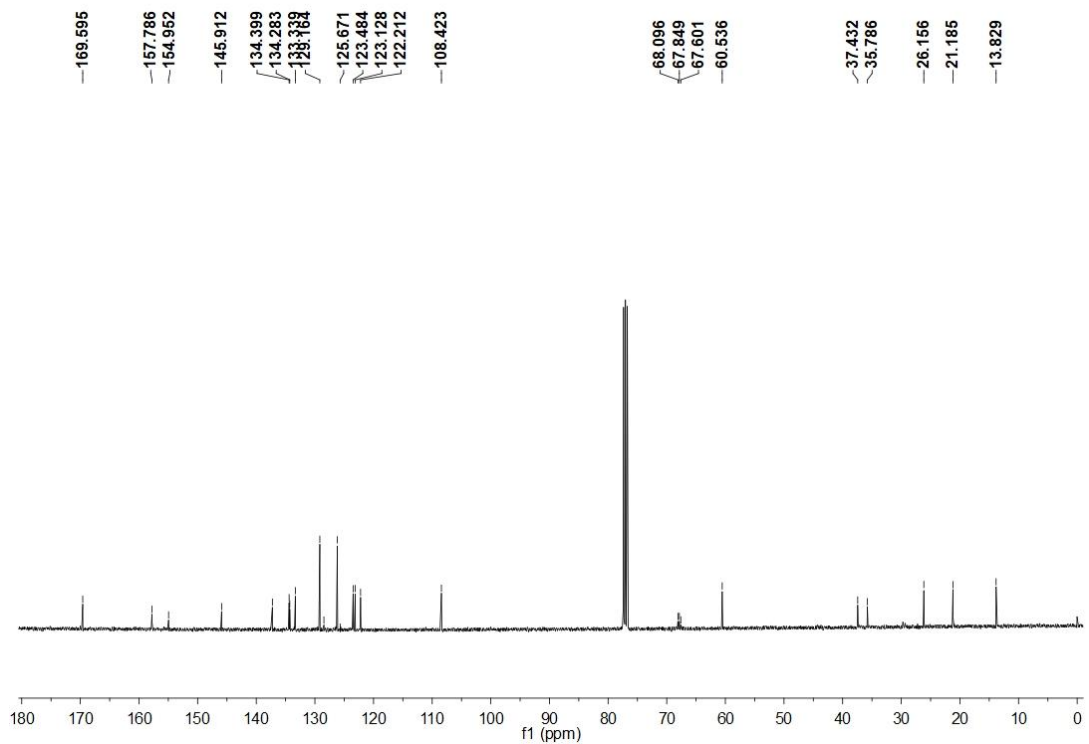
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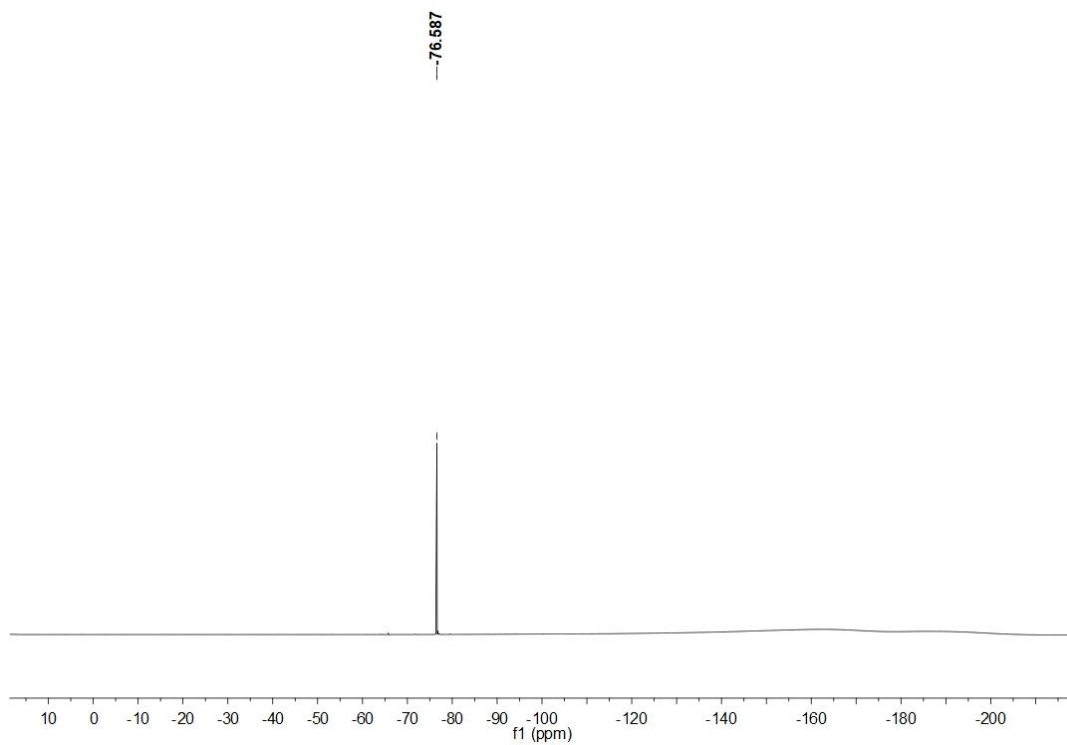
^{19}F NMR (376 MHz, CDCl_3)



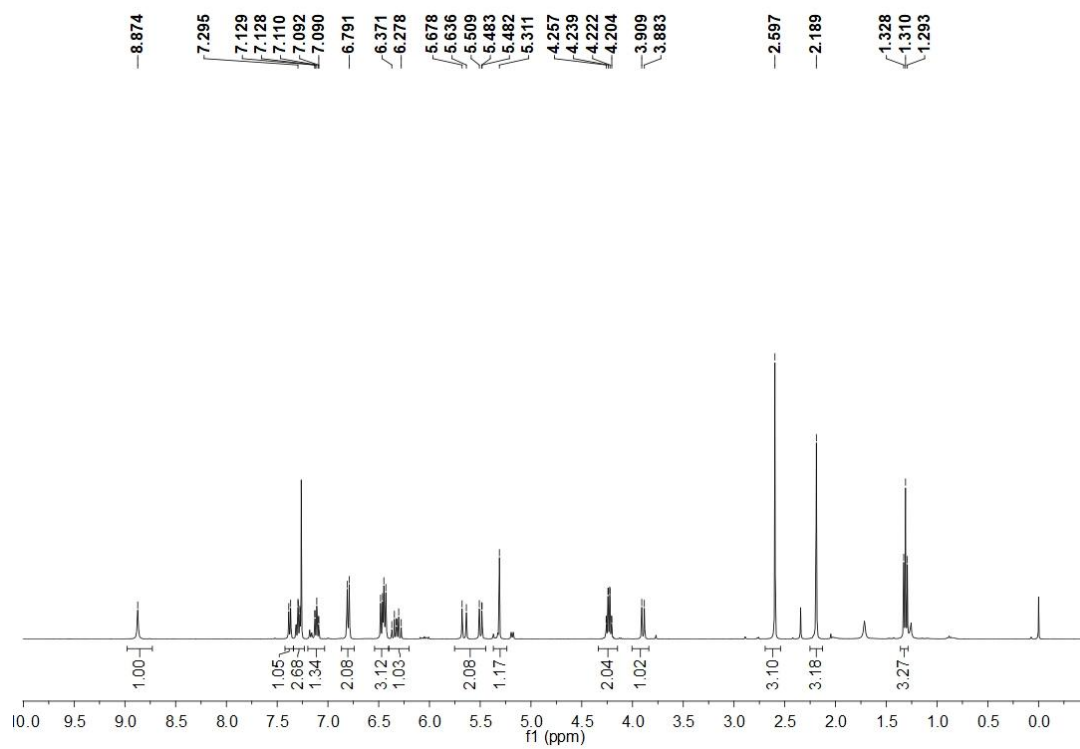
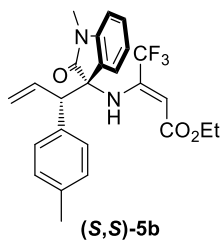
^1H NMR (400 MHz, CDCl_3)



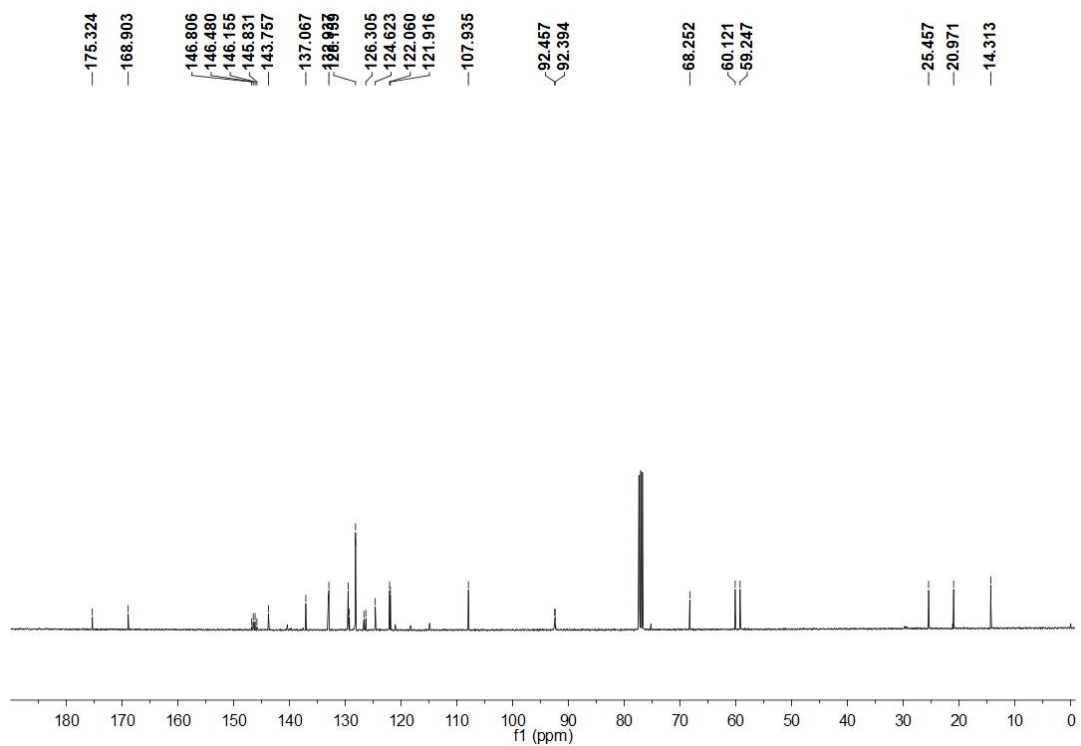
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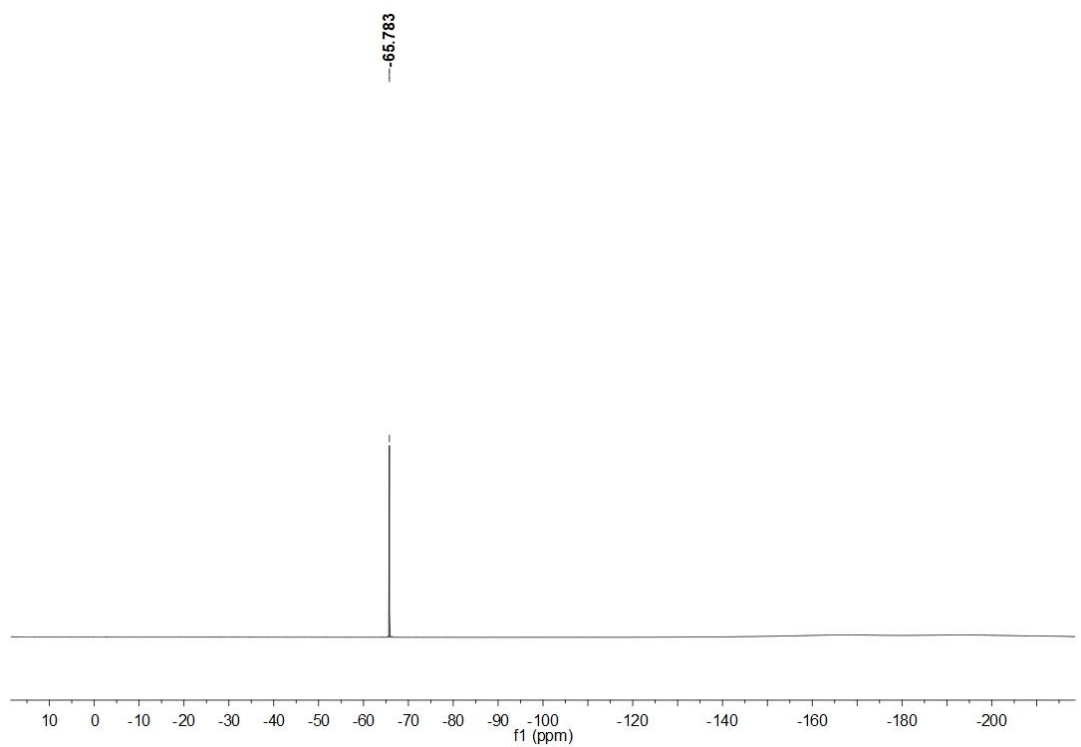
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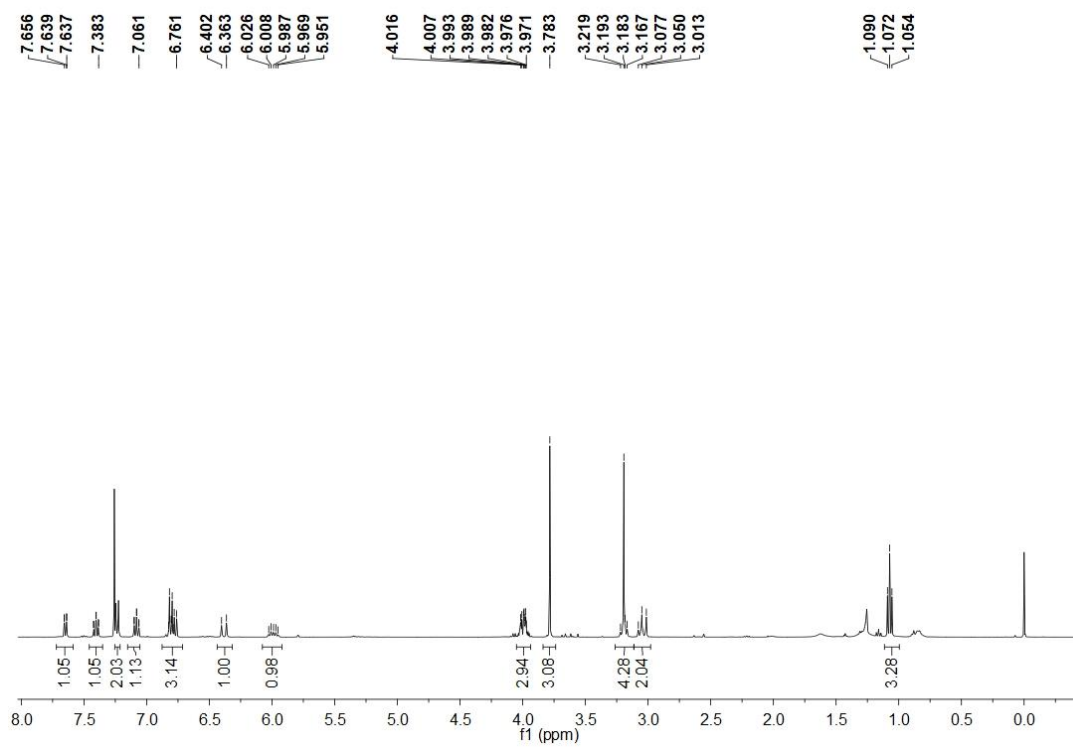
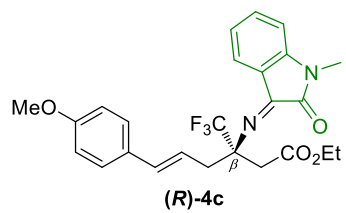
^1H NMR (400 MHz, CDCl_3)



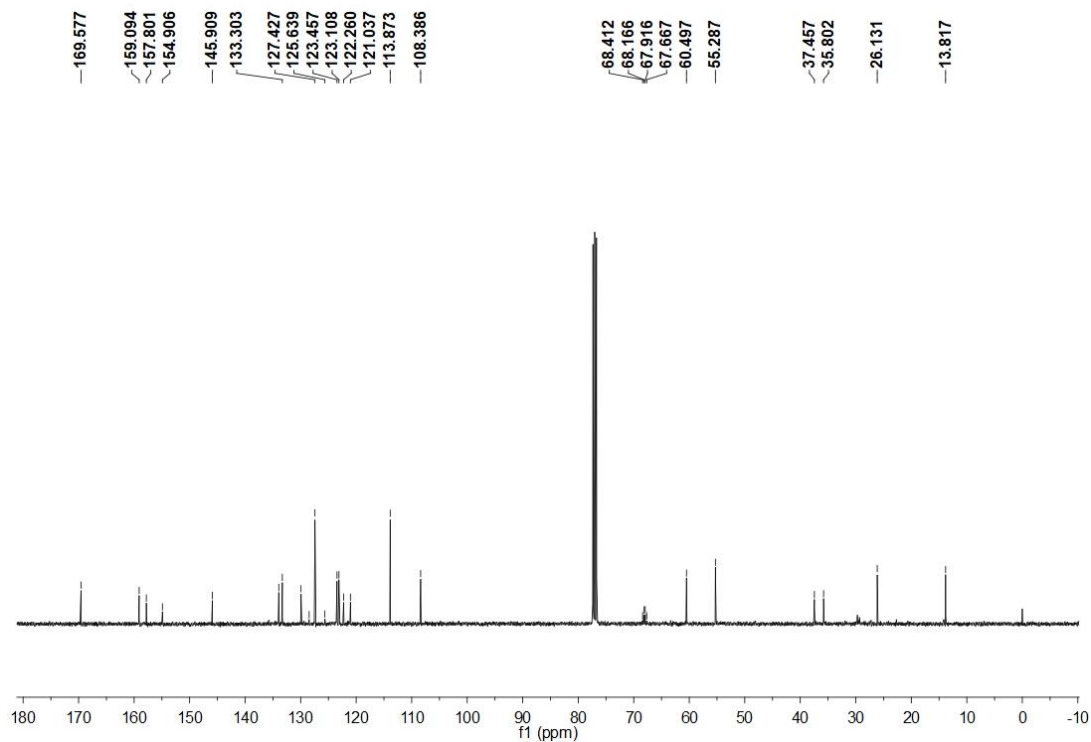
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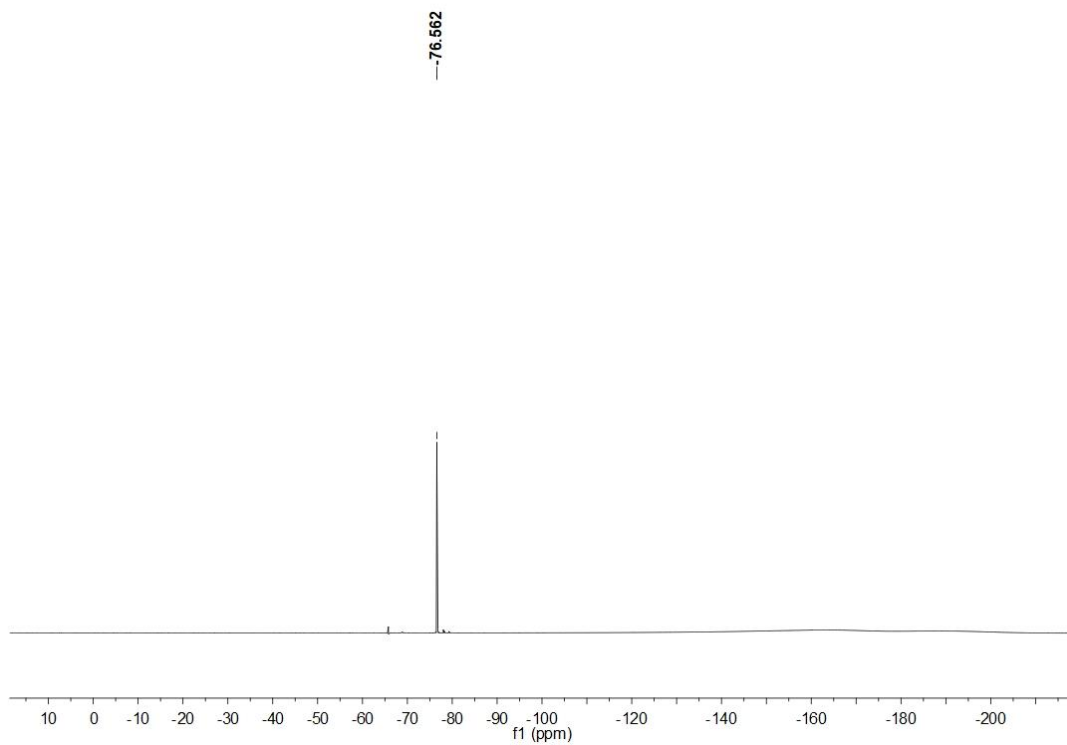
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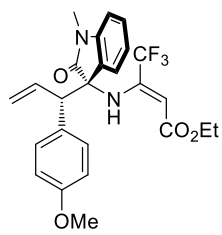
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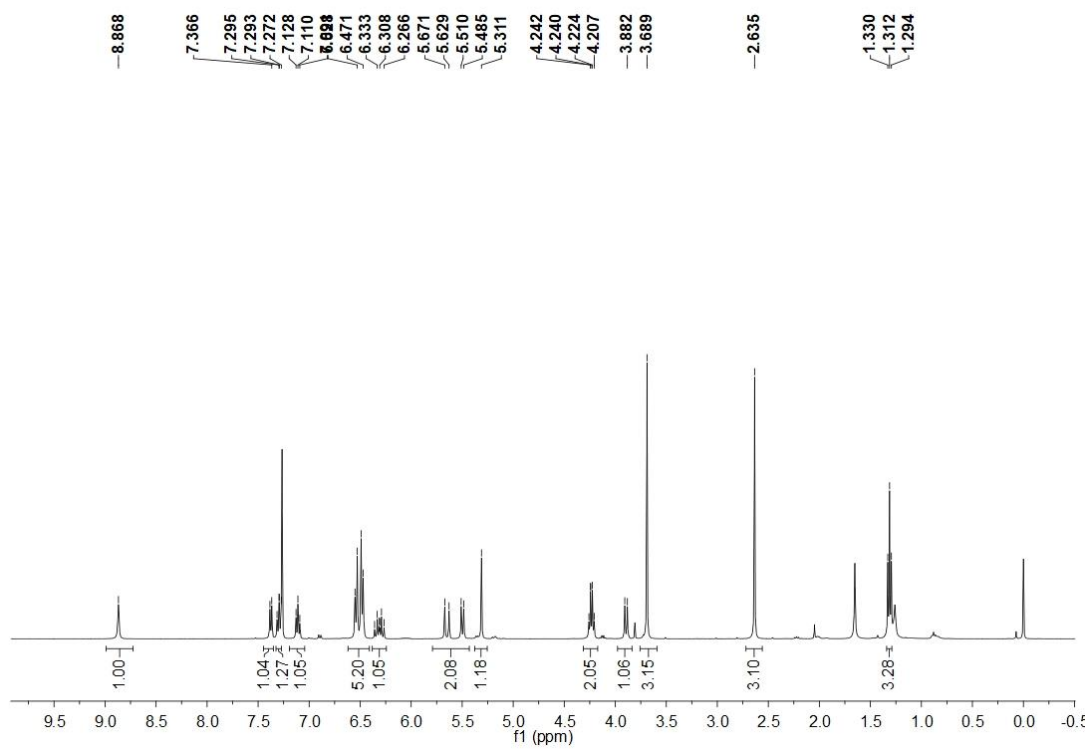
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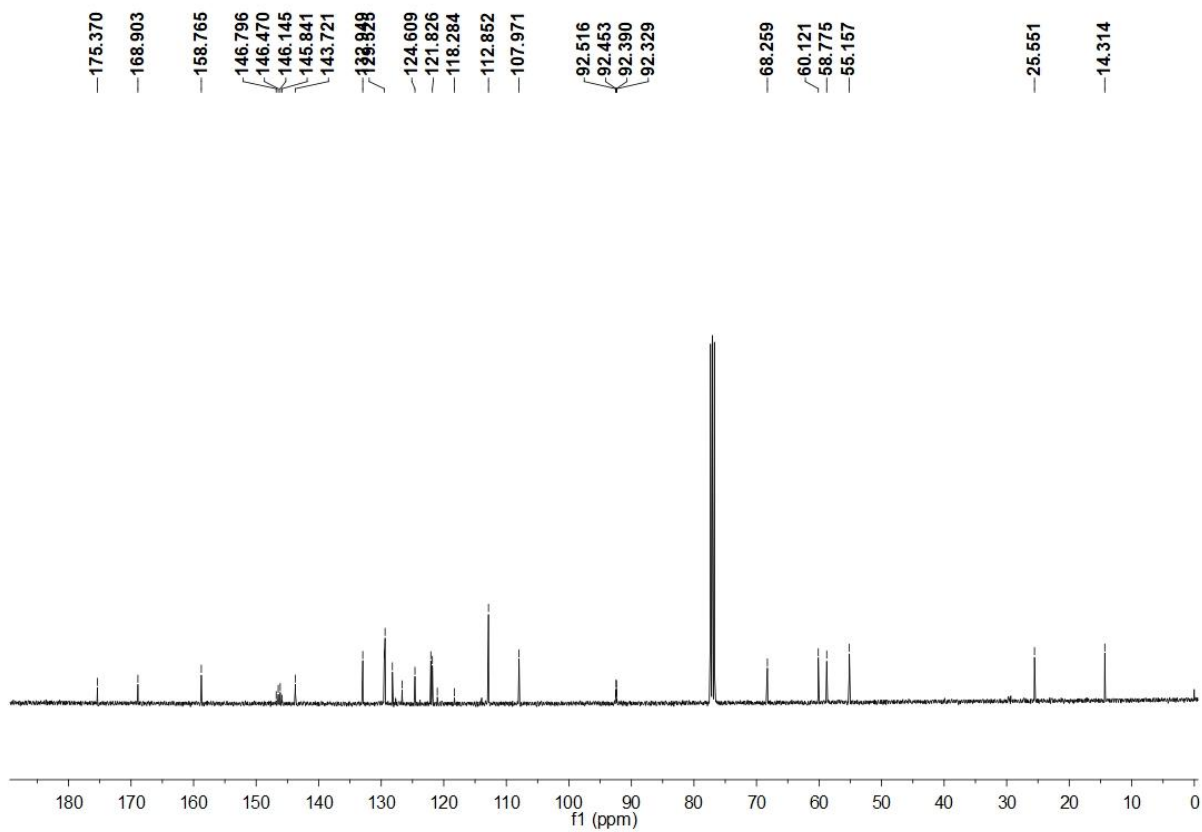
^{19}F NMR (376 MHz, CDCl_3)



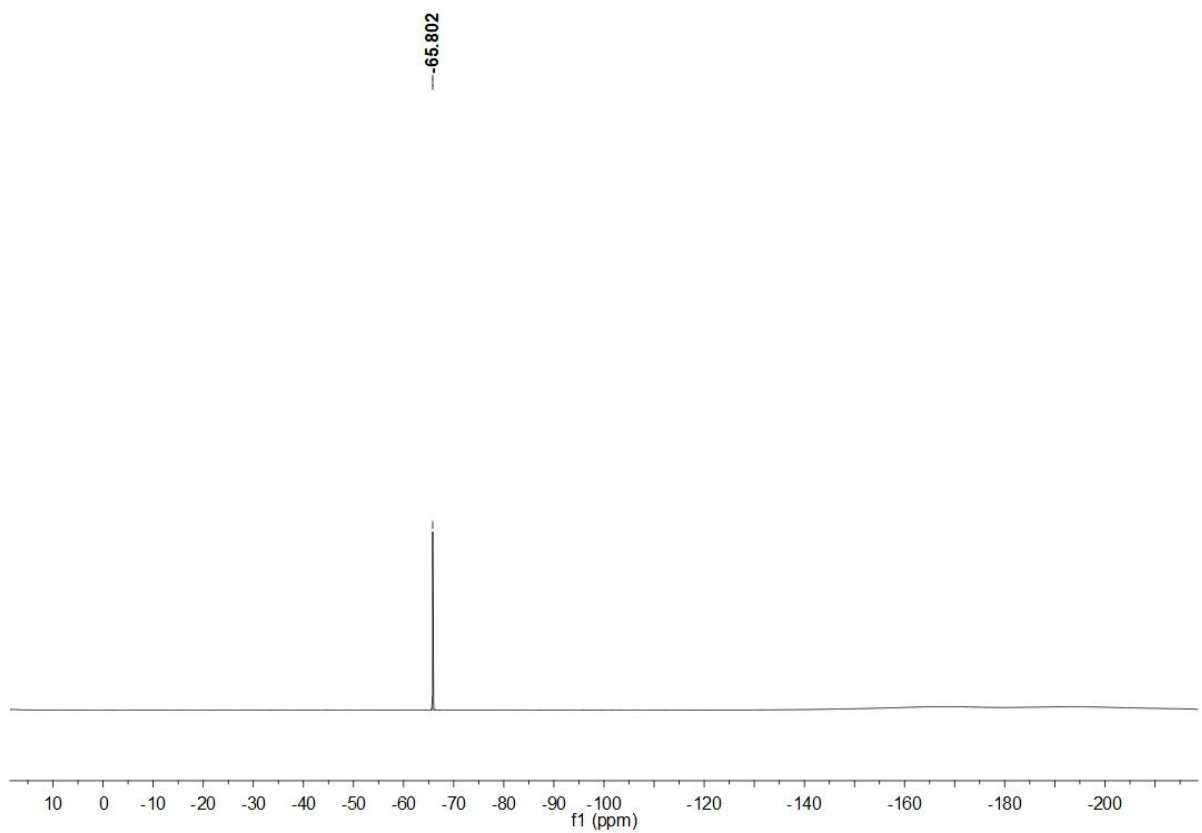
(*S,S*)-5c



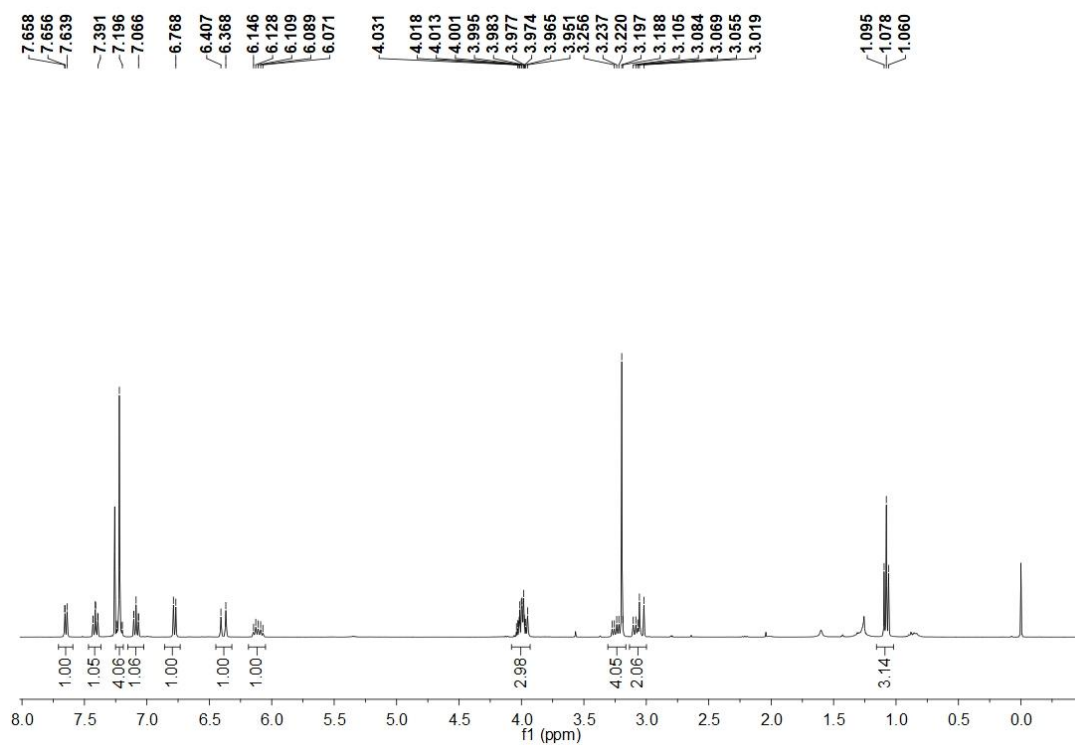
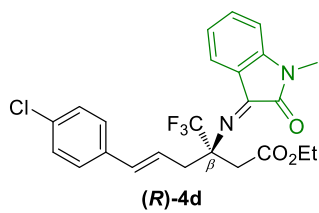
^1H NMR (400 MHz, CDCl_3)



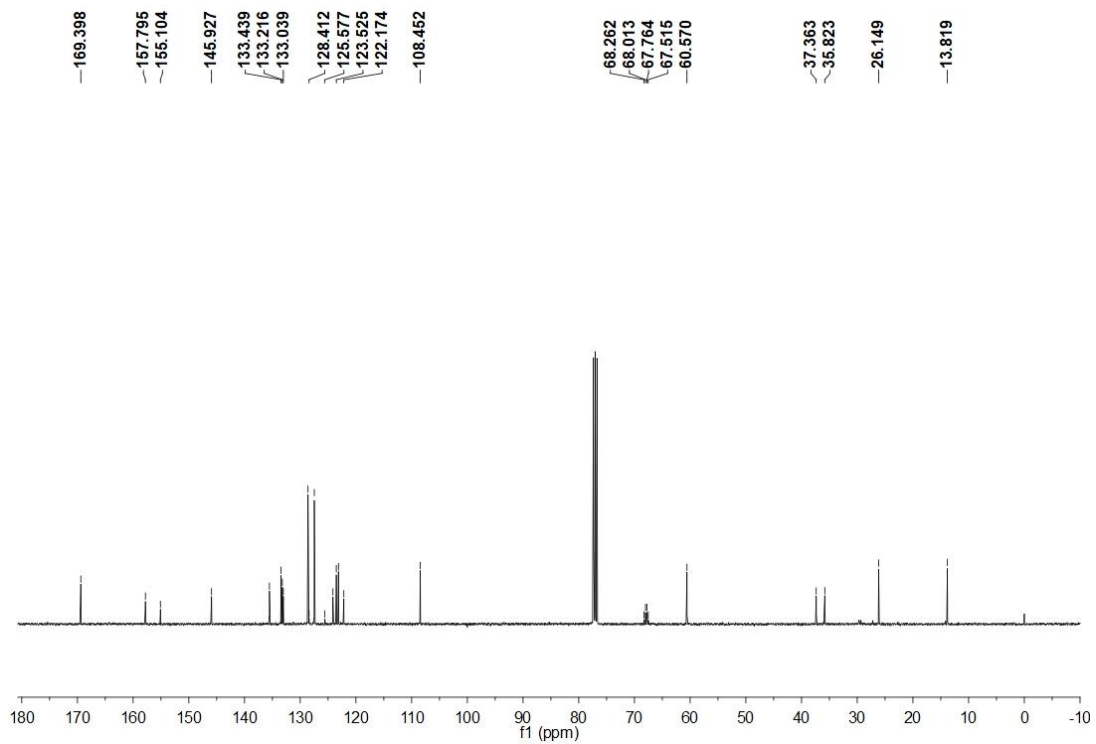
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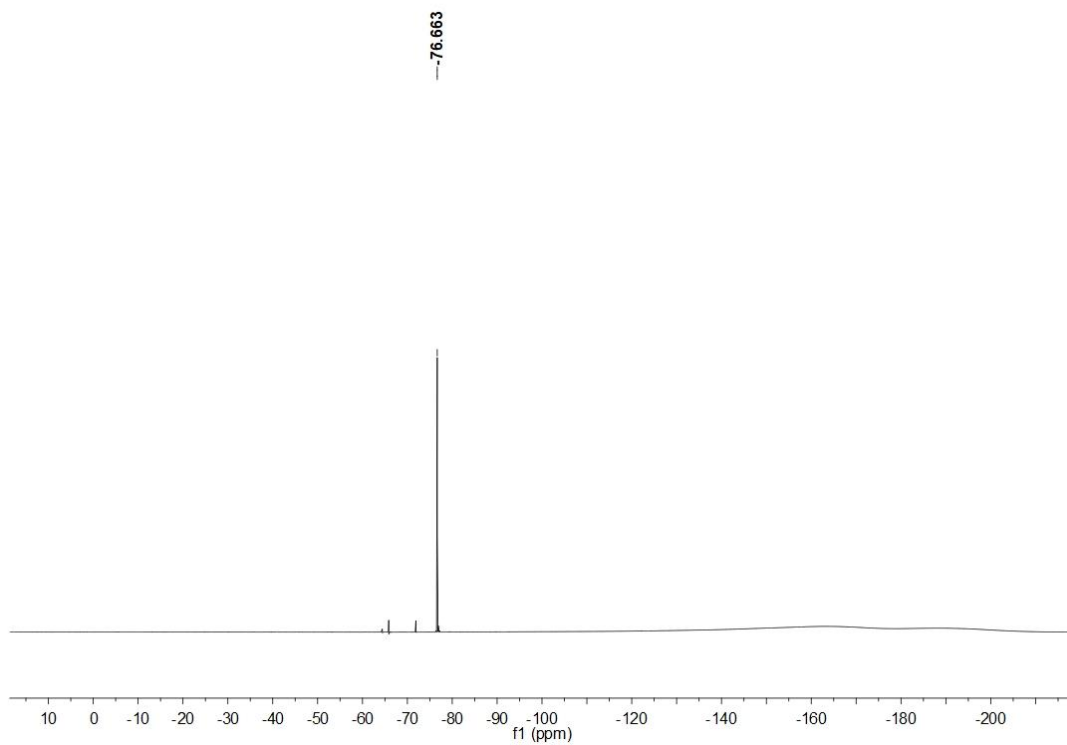
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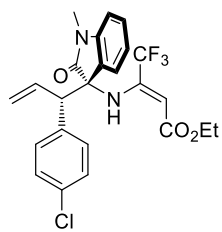
¹H NMR (400 MHz, CDCl₃)



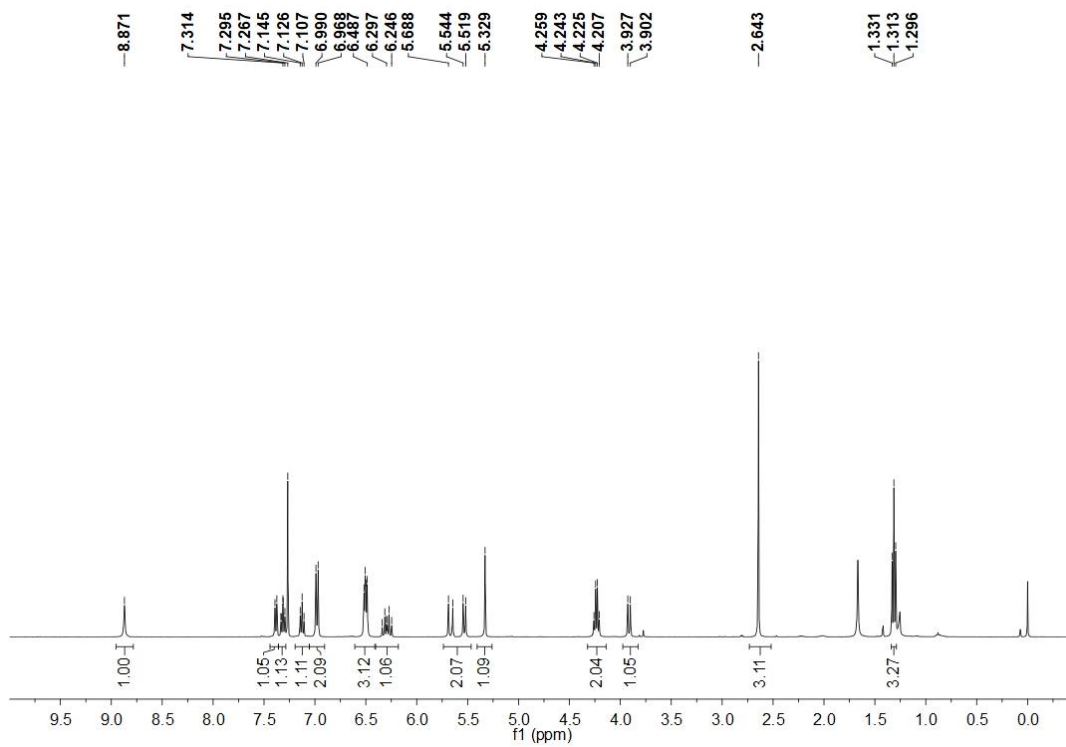
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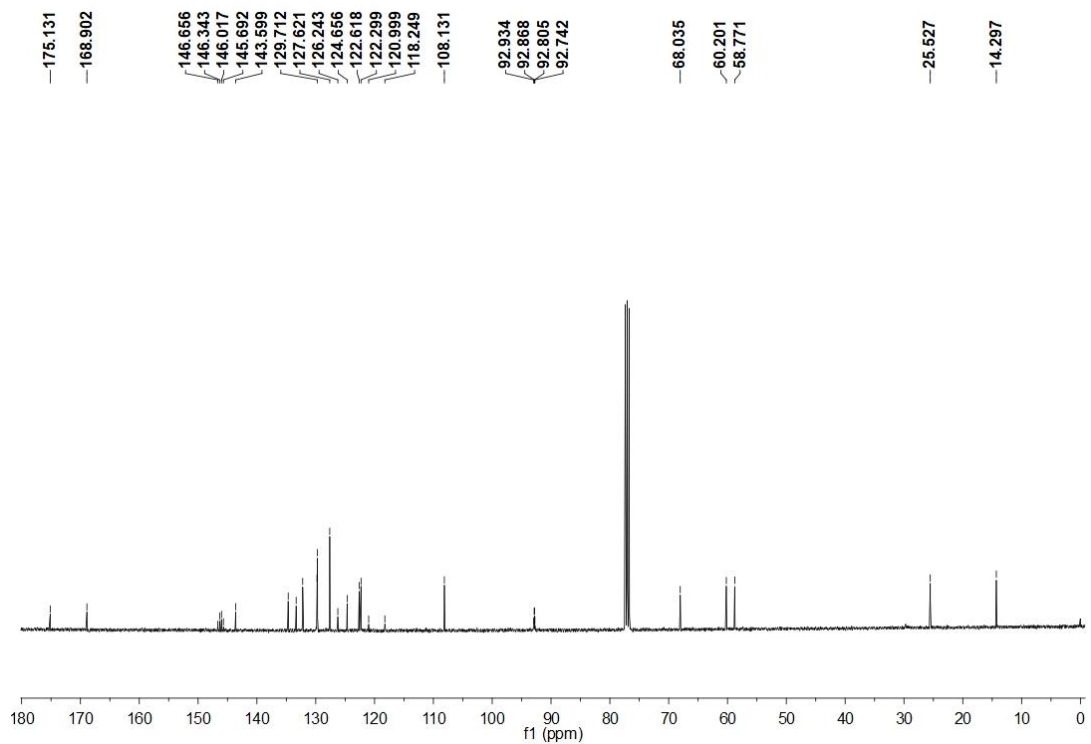
^{19}F NMR (376 MHz, CDCl_3)



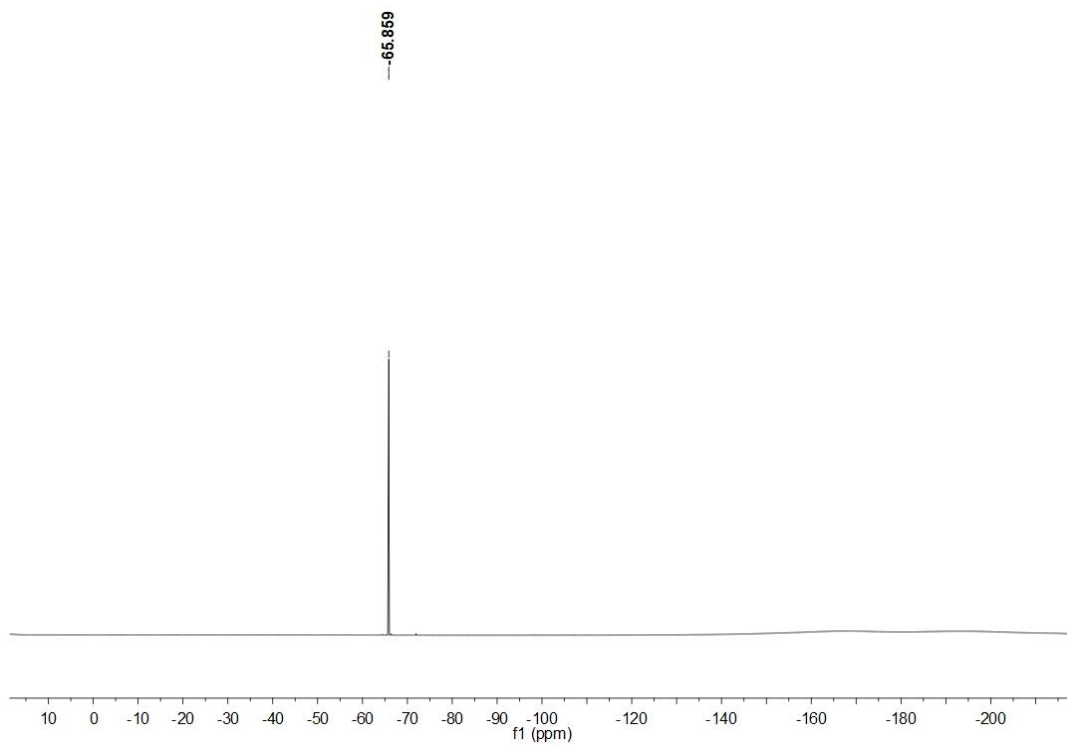
(S,S)-5d



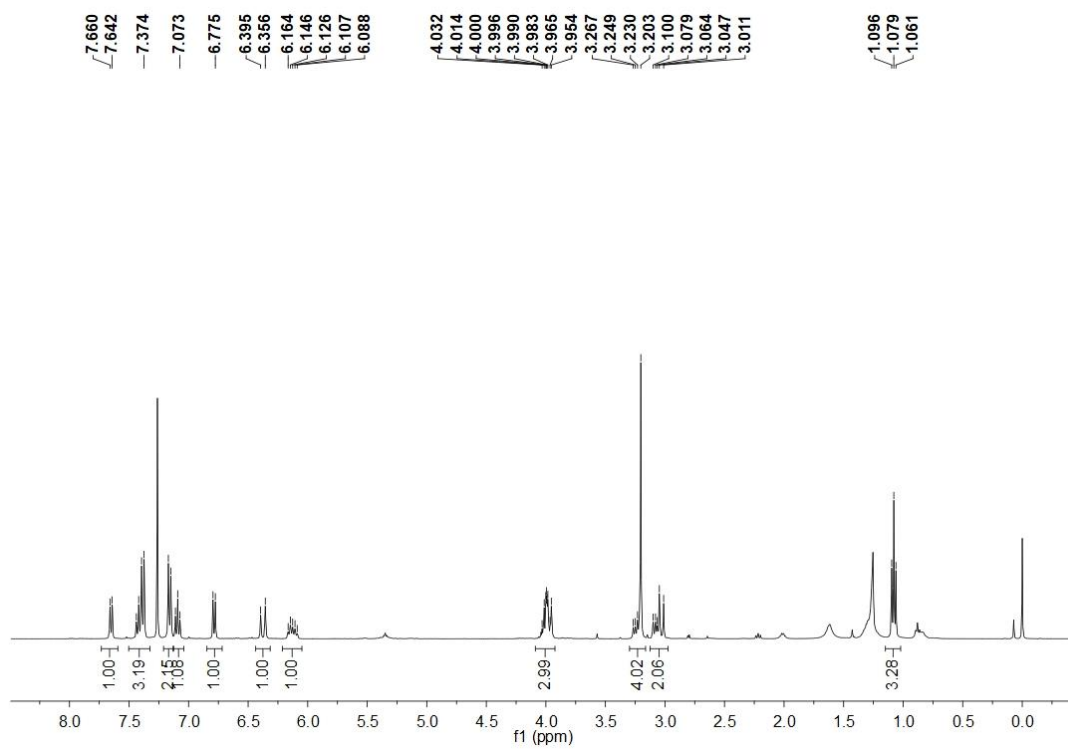
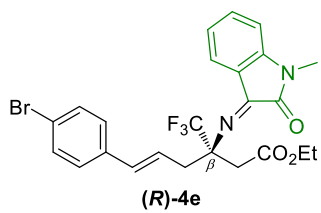
^1H NMR (400 MHz, CDCl_3)



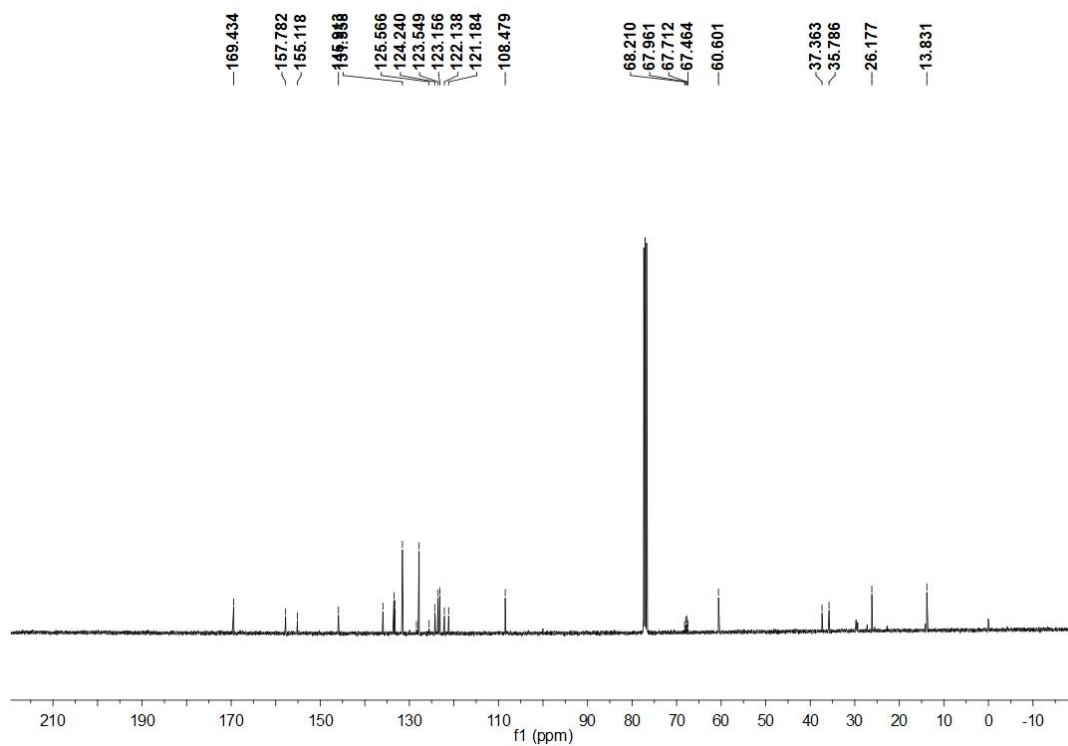
^{13}C NMR (101 MHz, CDCl_3)



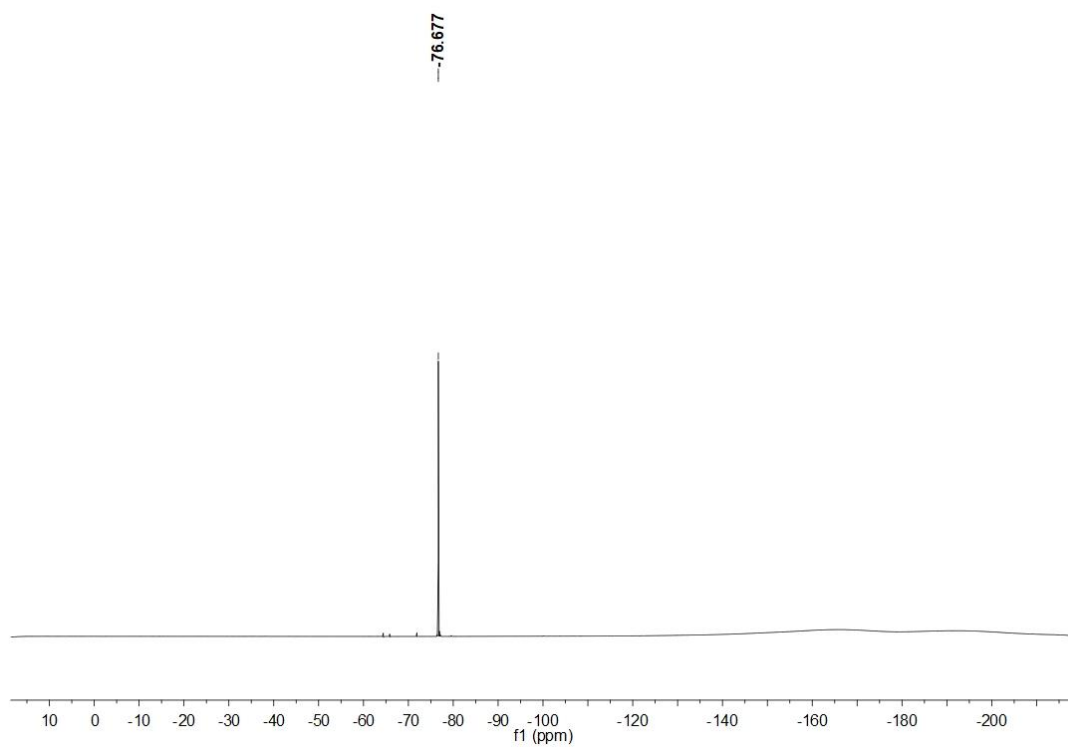
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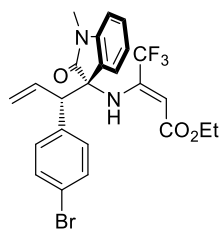
$^1\text{H NMR}$ (400 MHz, CDCl_3)



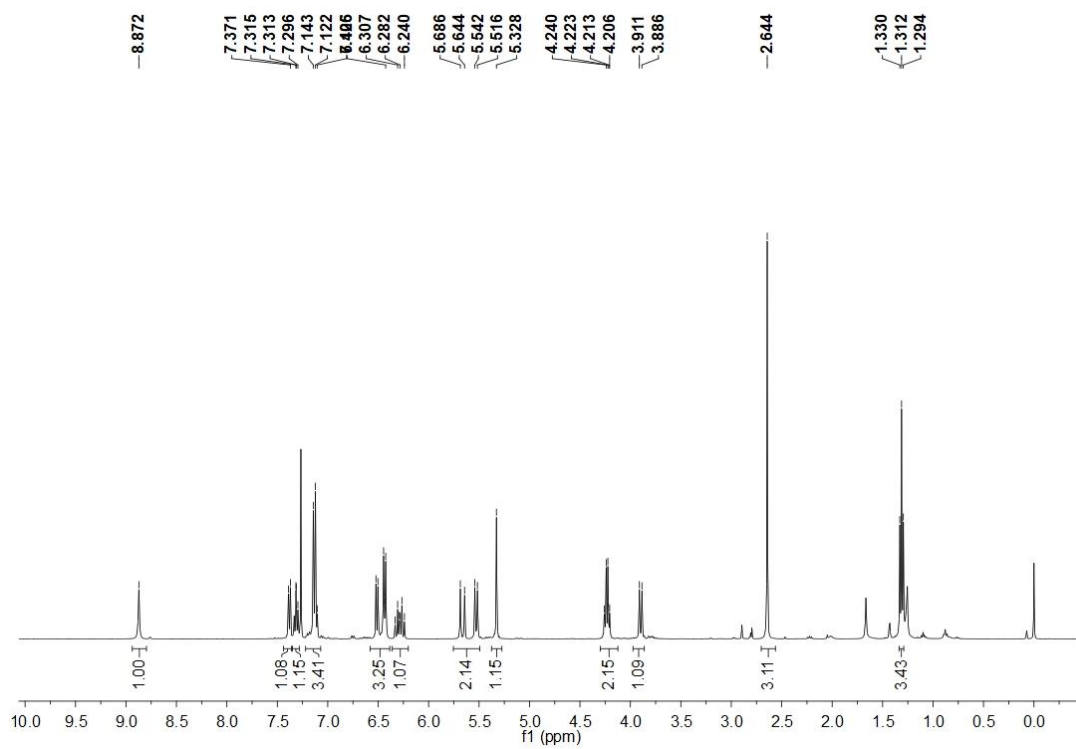
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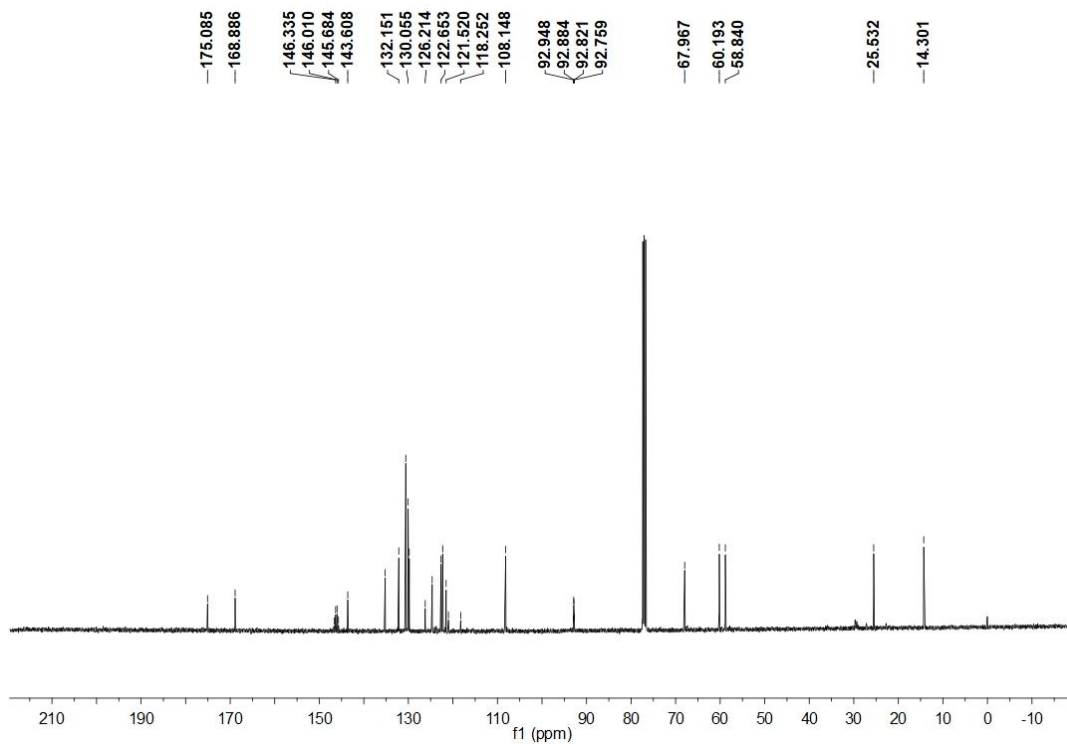
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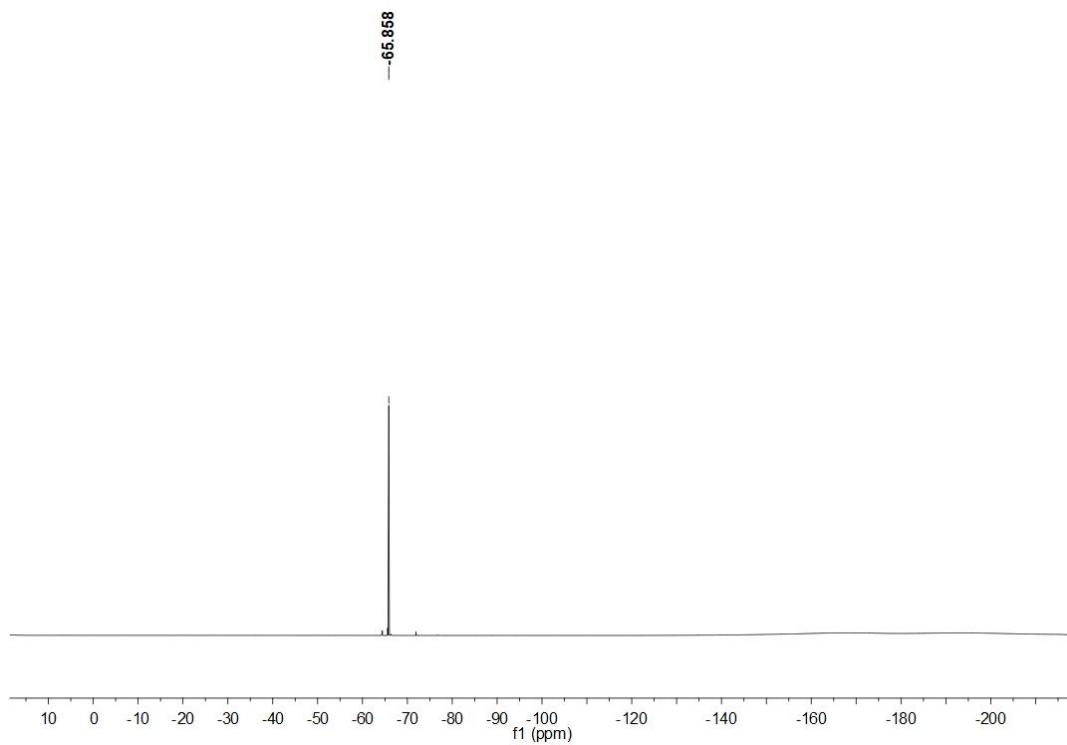
(*S,S*)-5e



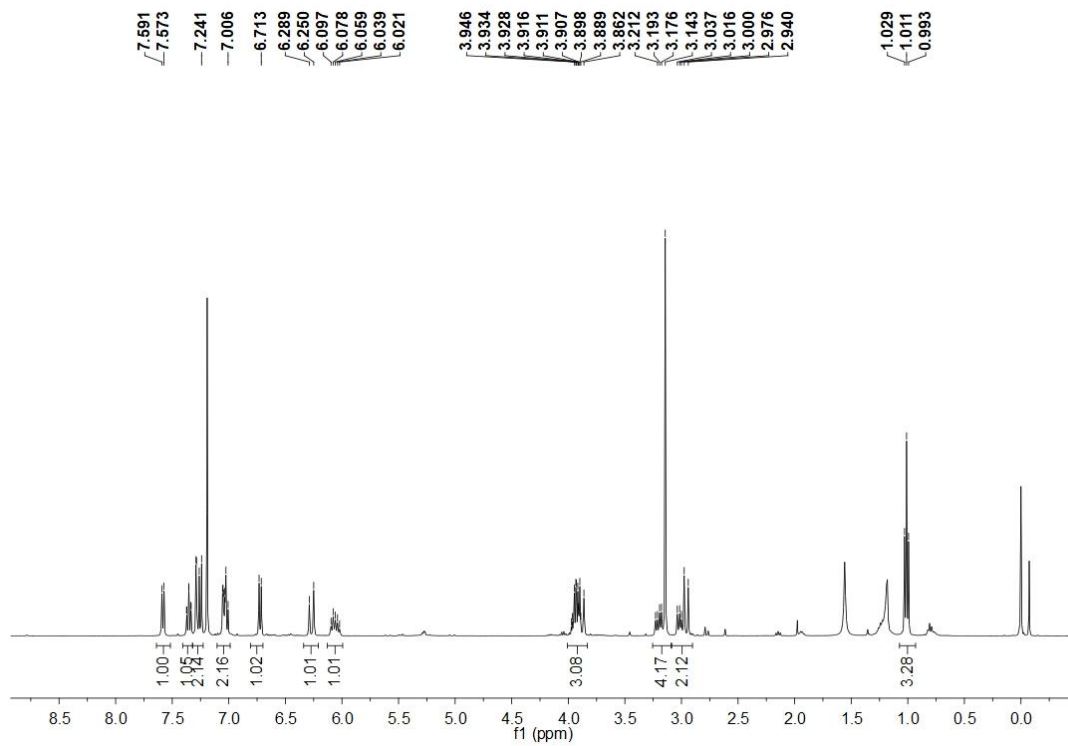
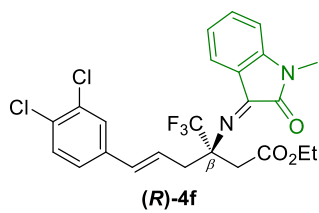
^1H NMR (400 MHz, CDCl_3)



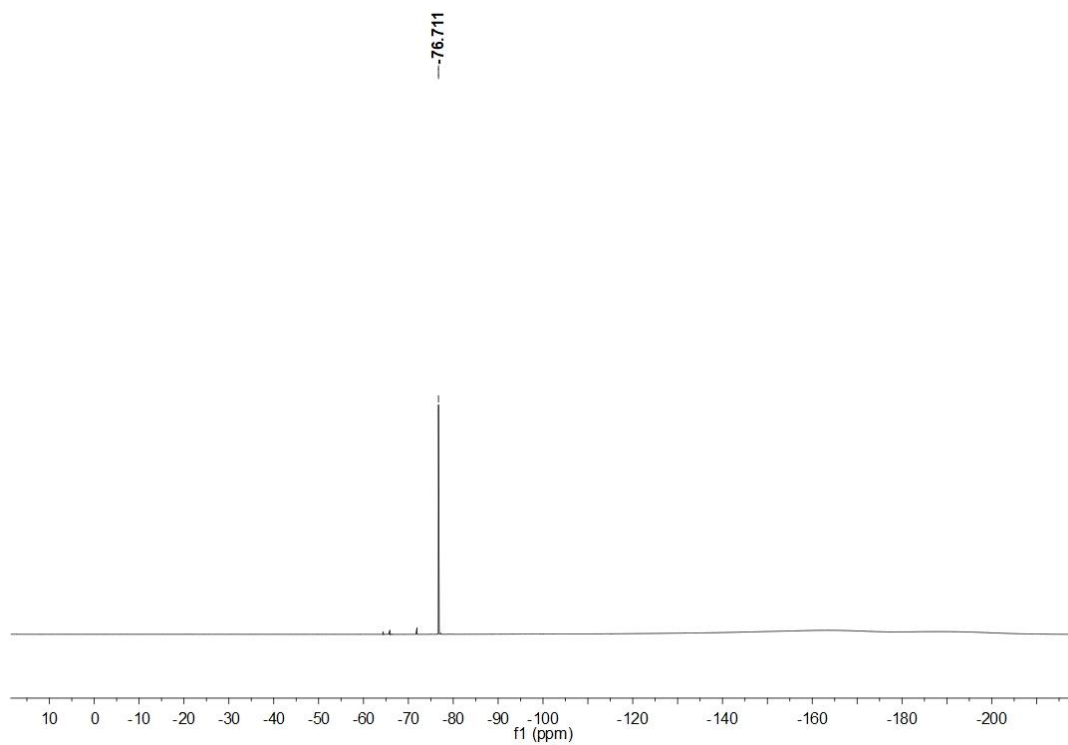
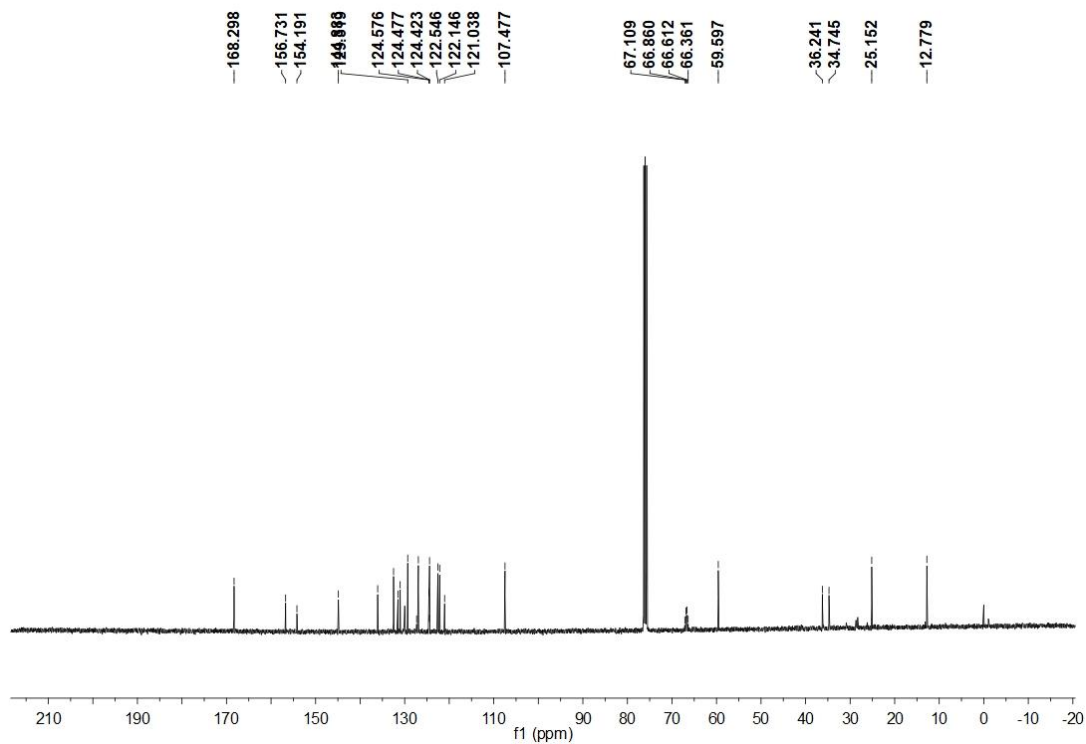
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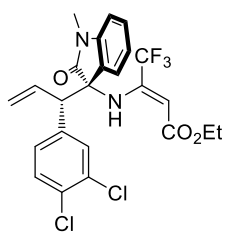


^{19}F NMR (376 MHz, CDCl_3)

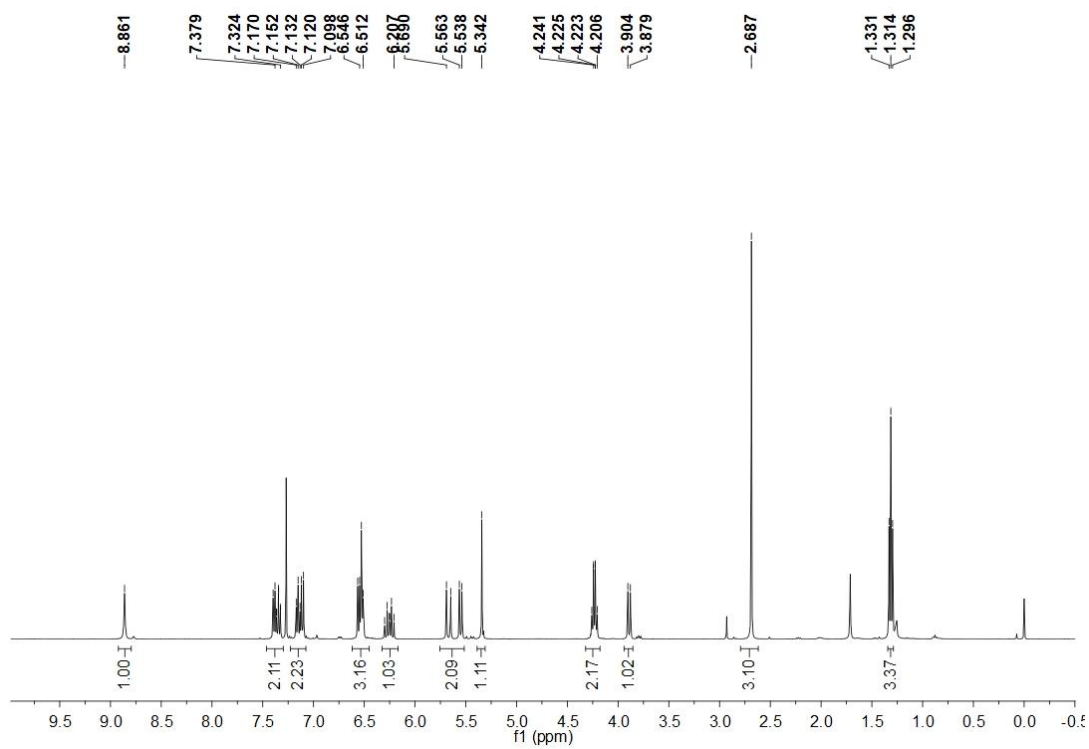


^1H NMR (400 MHz, CDCl_3)

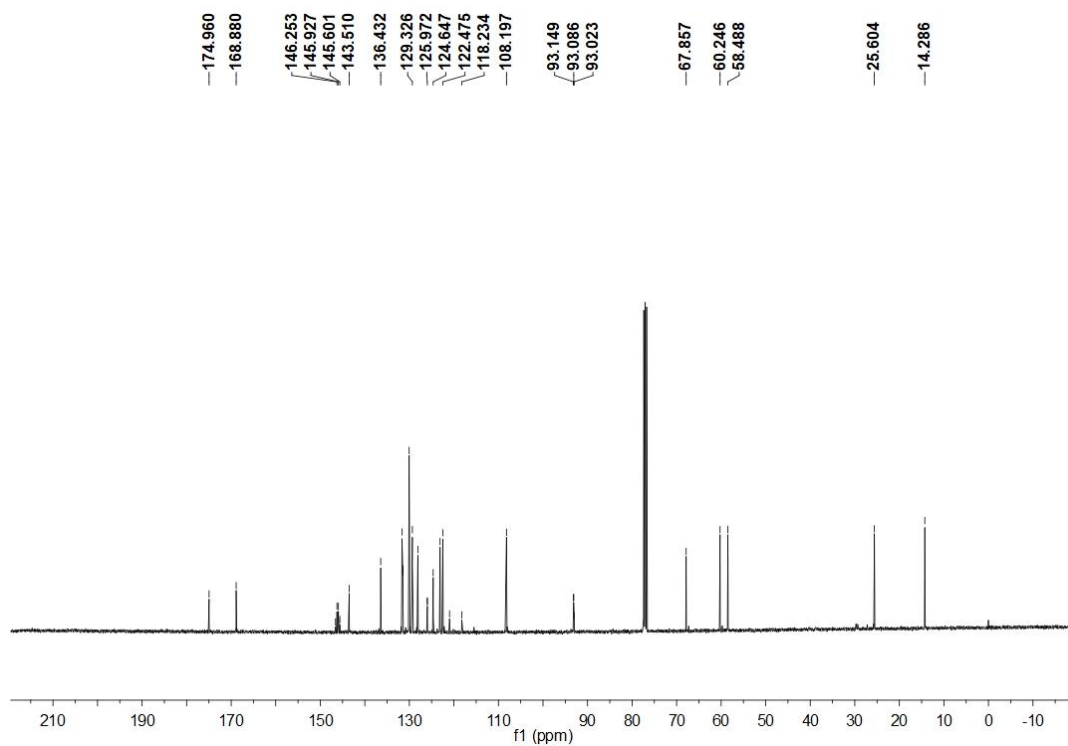




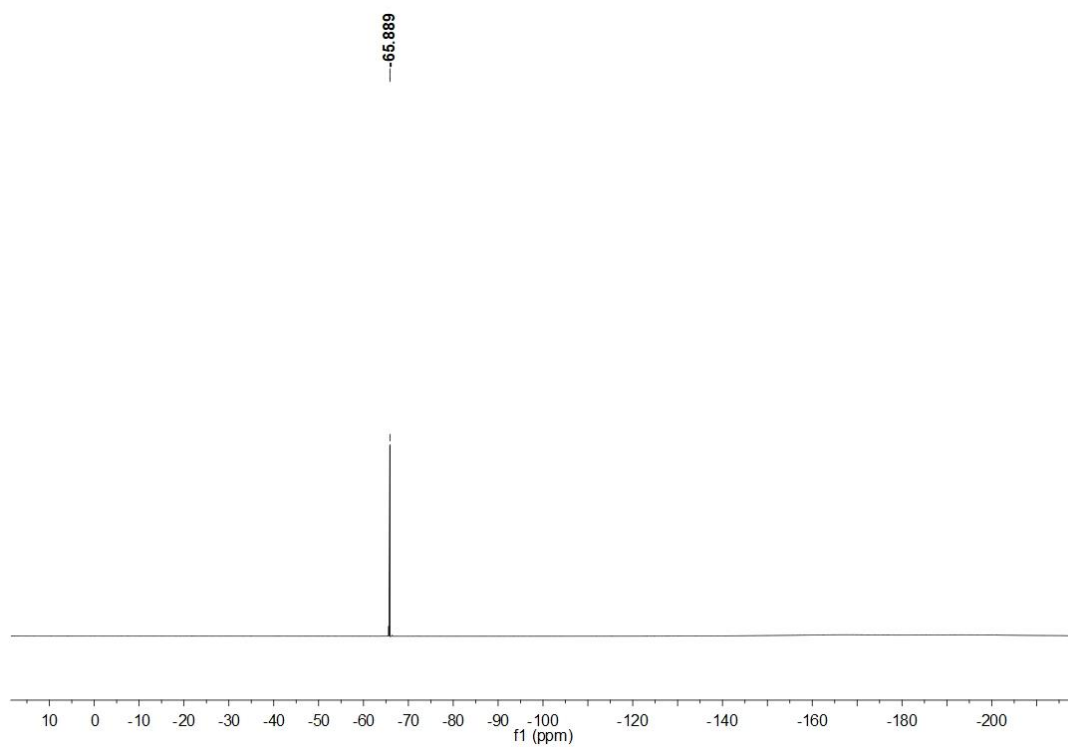
(S,S)-5f



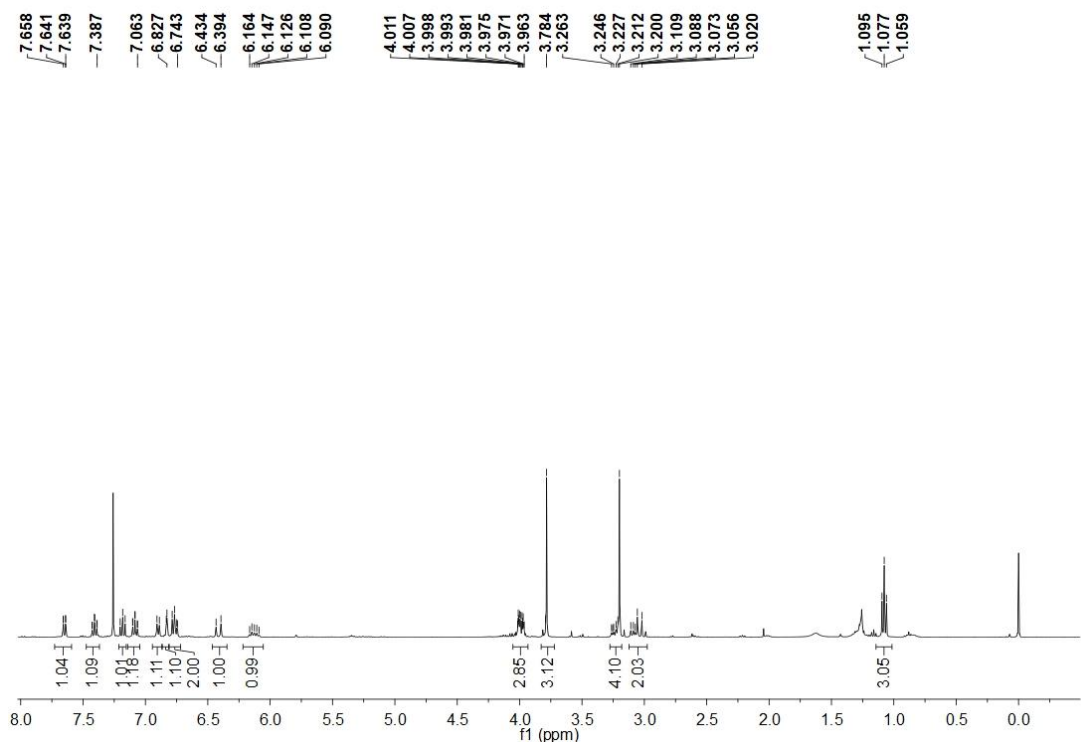
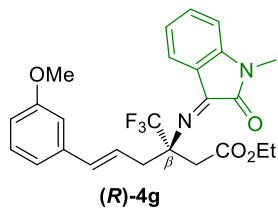
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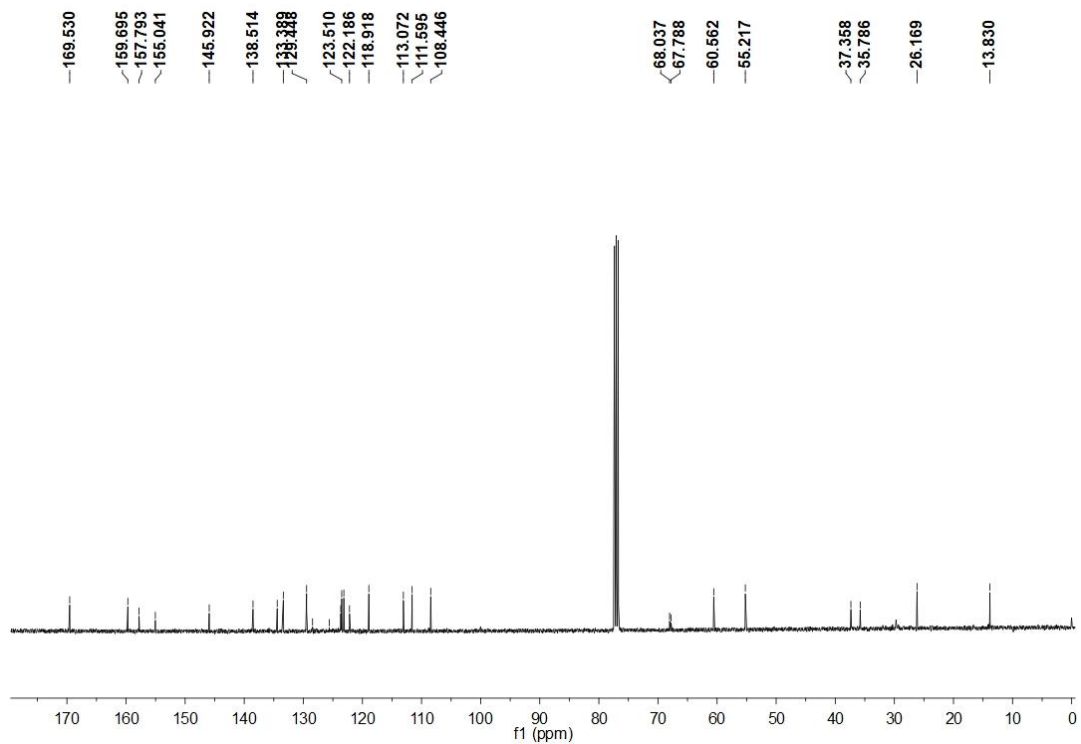
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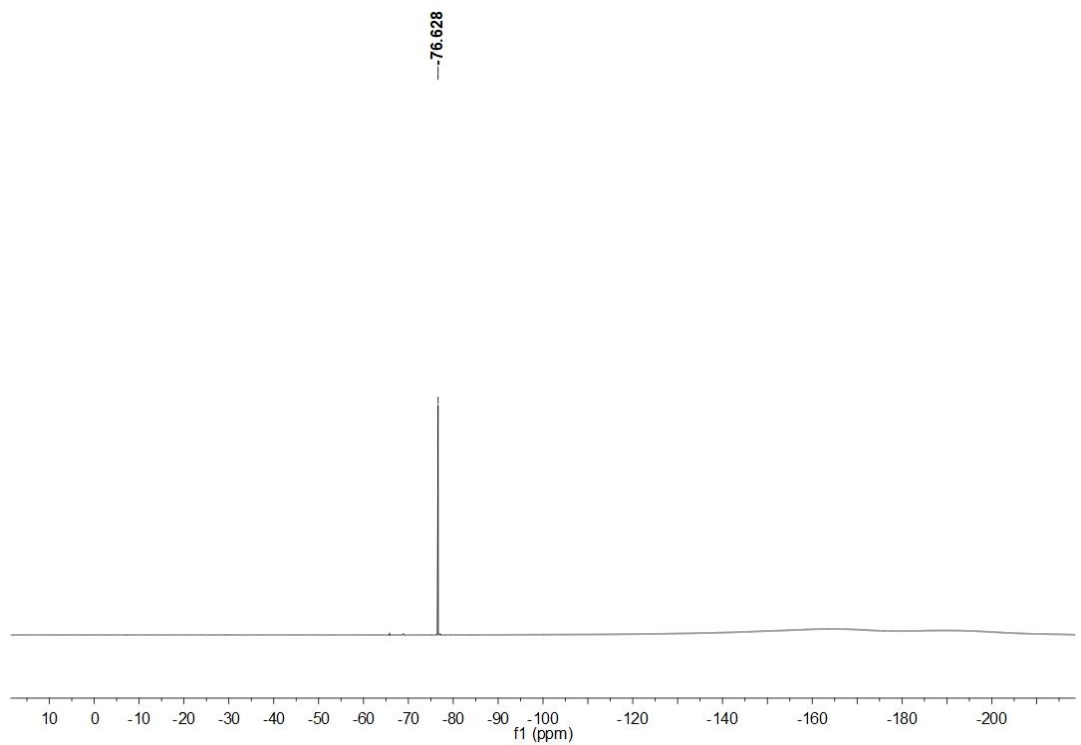
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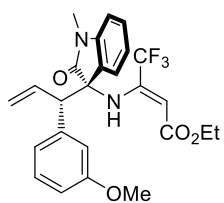
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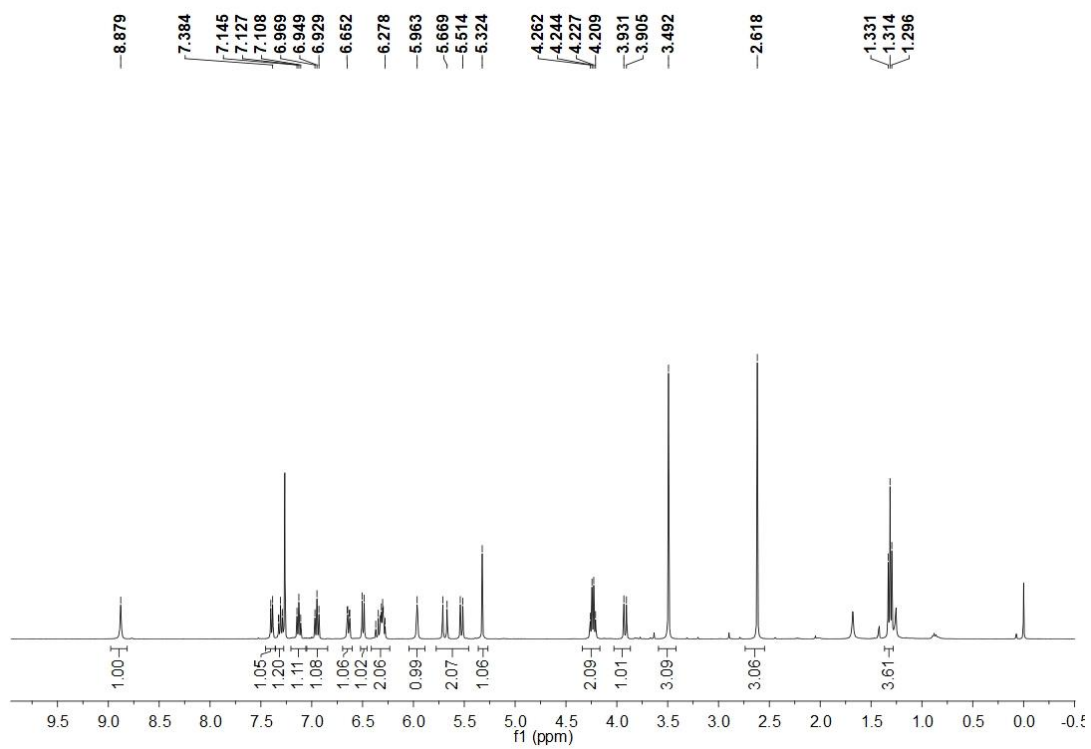
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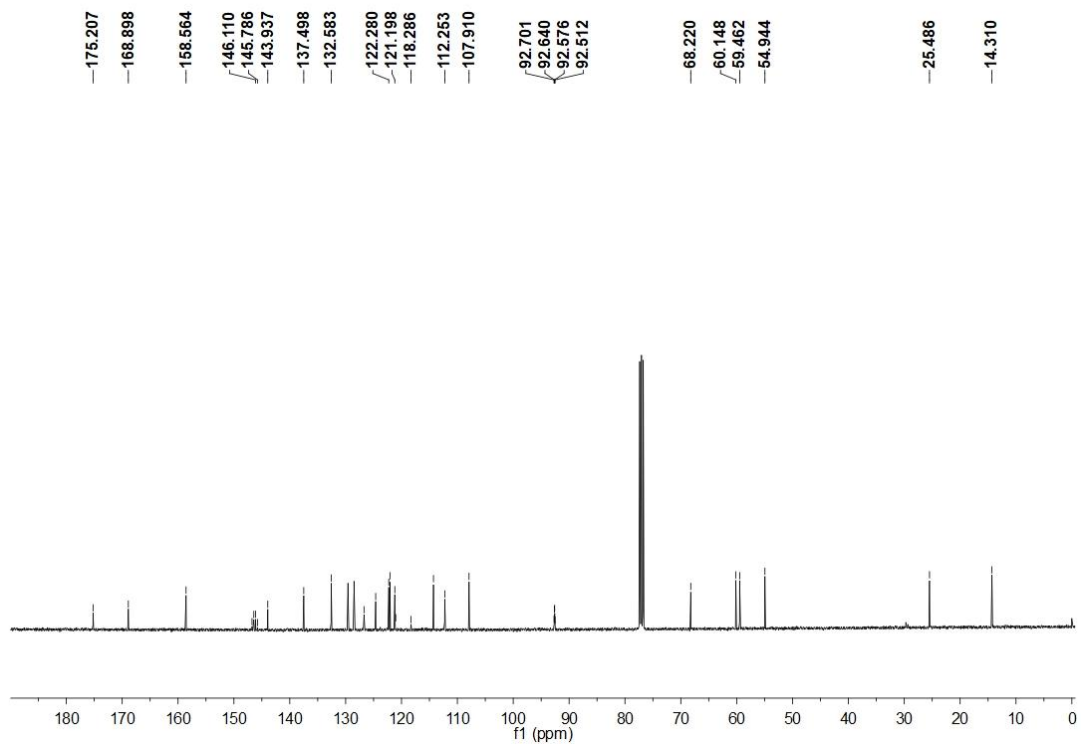
^{19}F NMR (376 MHz, CDCl_3)



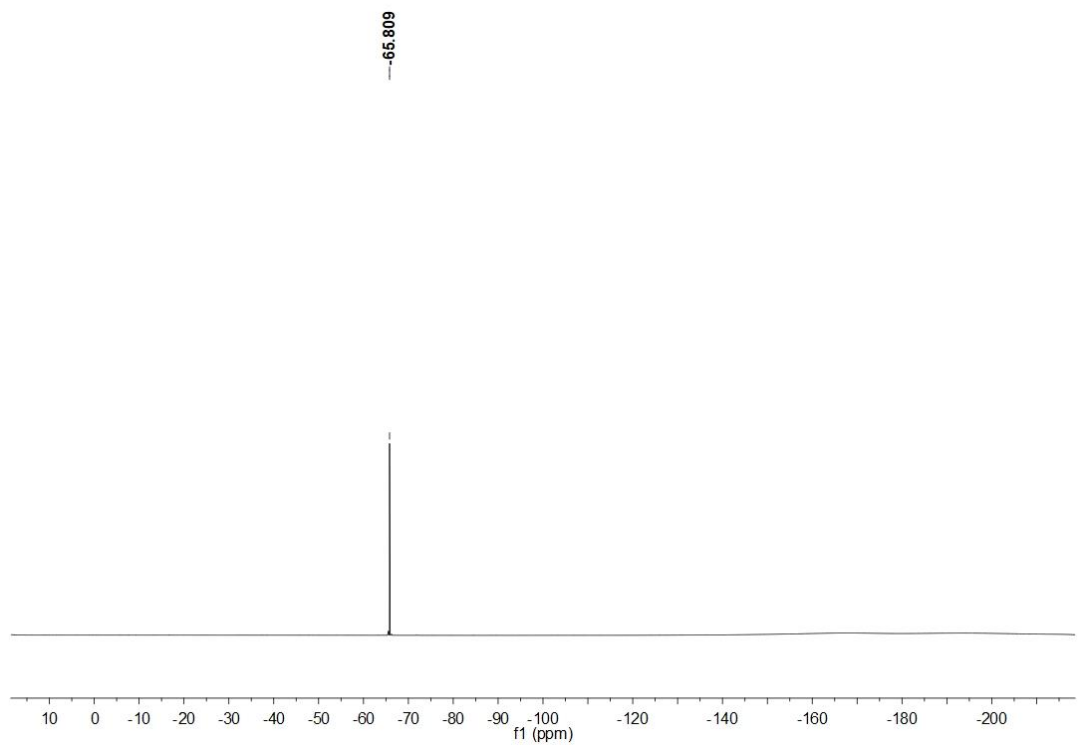
(*S,S*)-5g



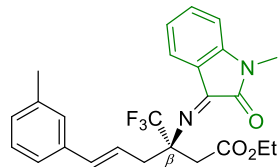
^1H NMR (400 MHz, CDCl_3)



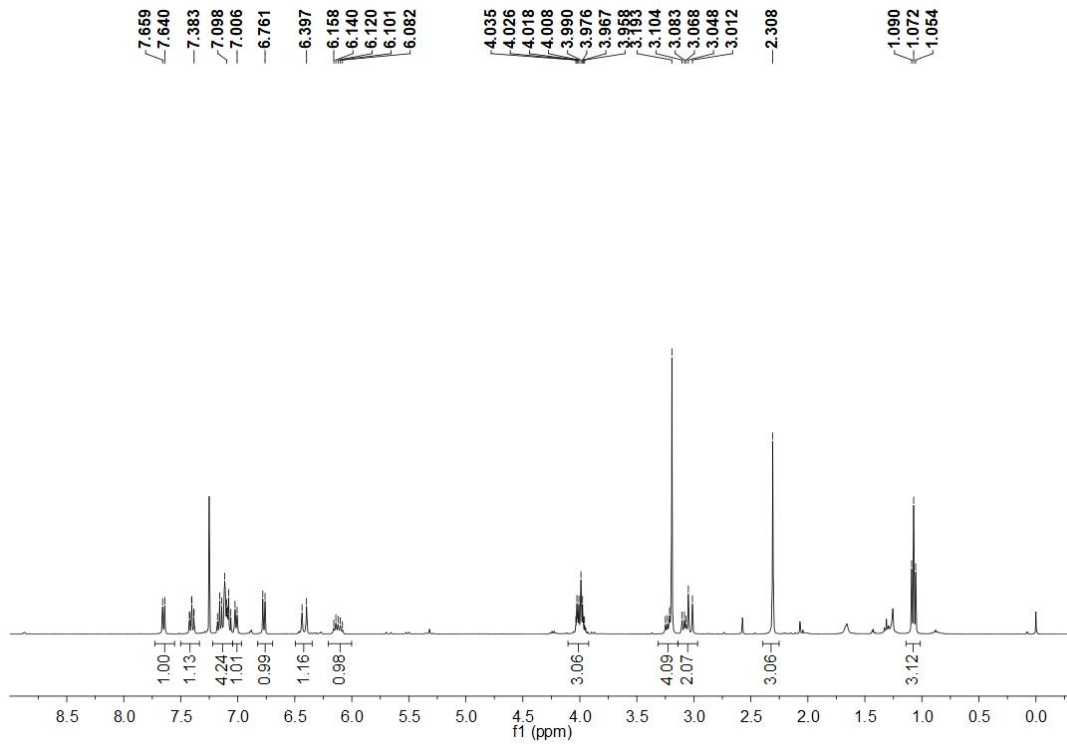
^{13}C NMR (101 MHz, CDCl_3)



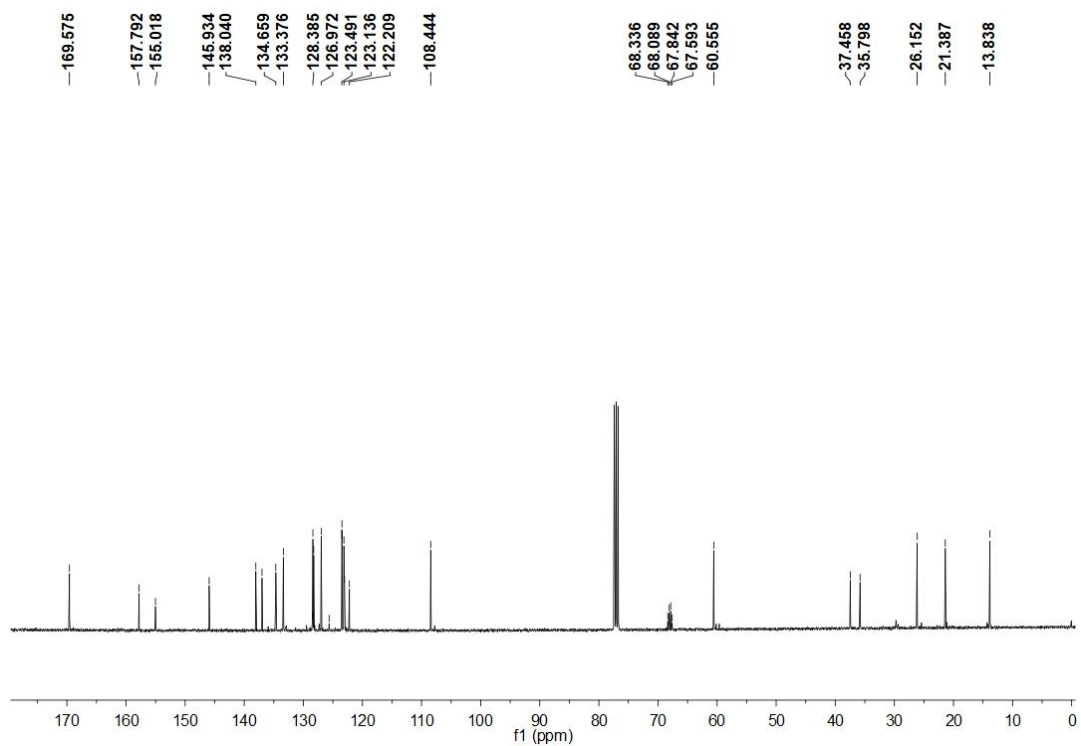
^{19}F NMR (376 MHz, CDCl_3)



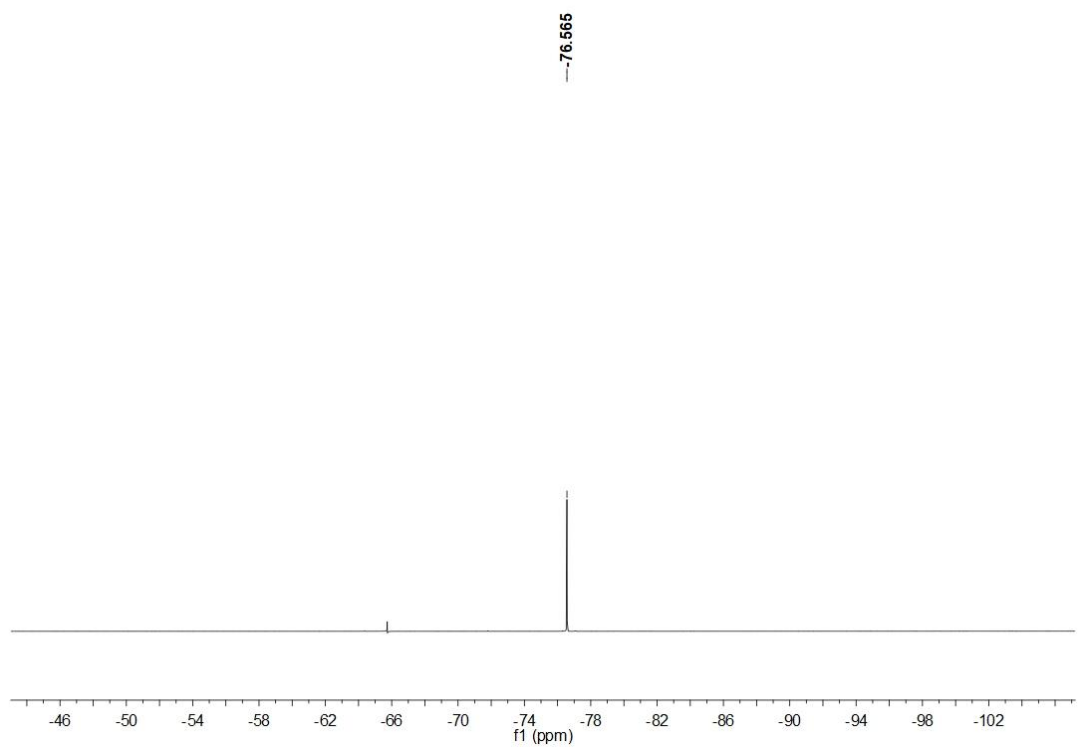
(R)-4h



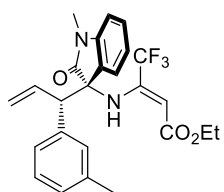
^1H NMR (400 MHz, CDCl_3)



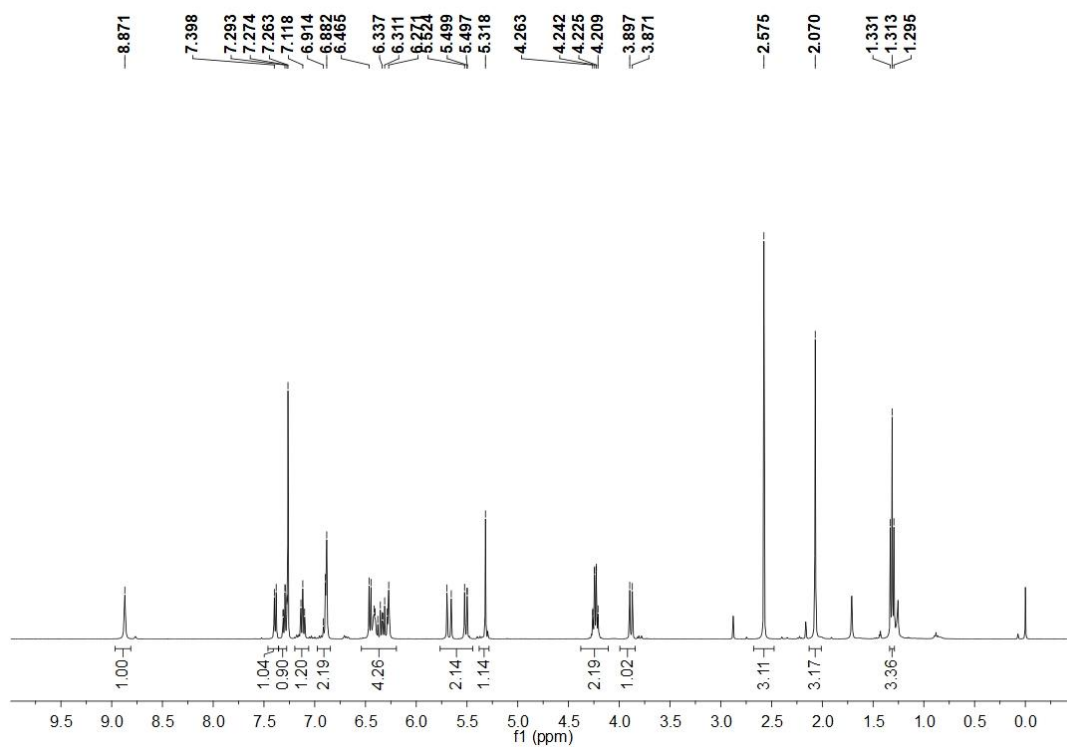
^{13}C NMR (101 MHz, CDCl_3)



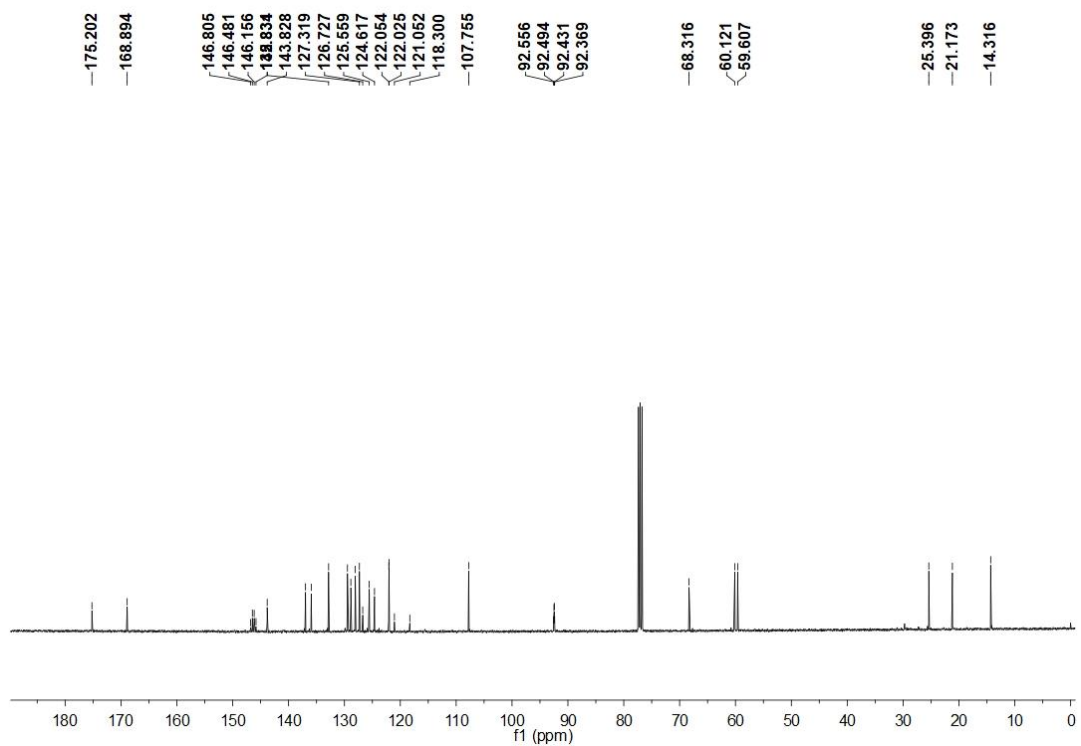
^{19}F NMR (376 MHz, CDCl_3)



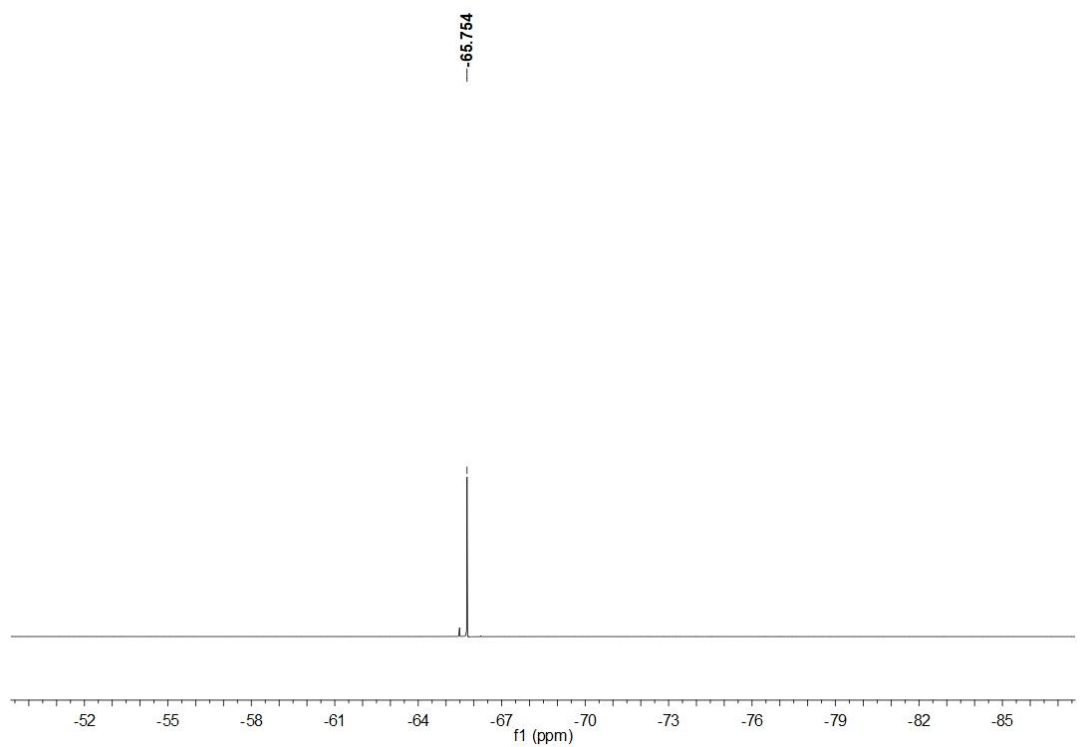
(S,S)-5h



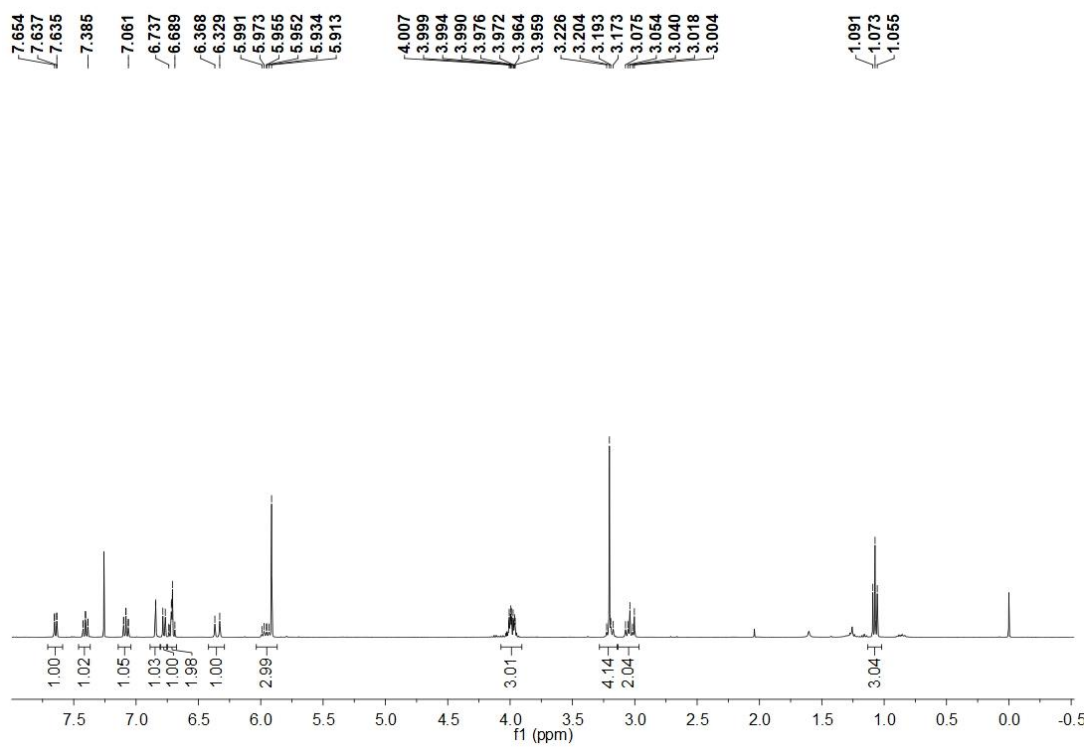
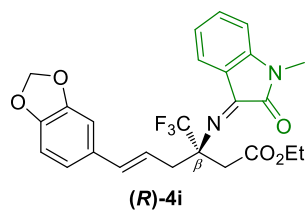
^1H NMR (400 MHz, CDCl_3)



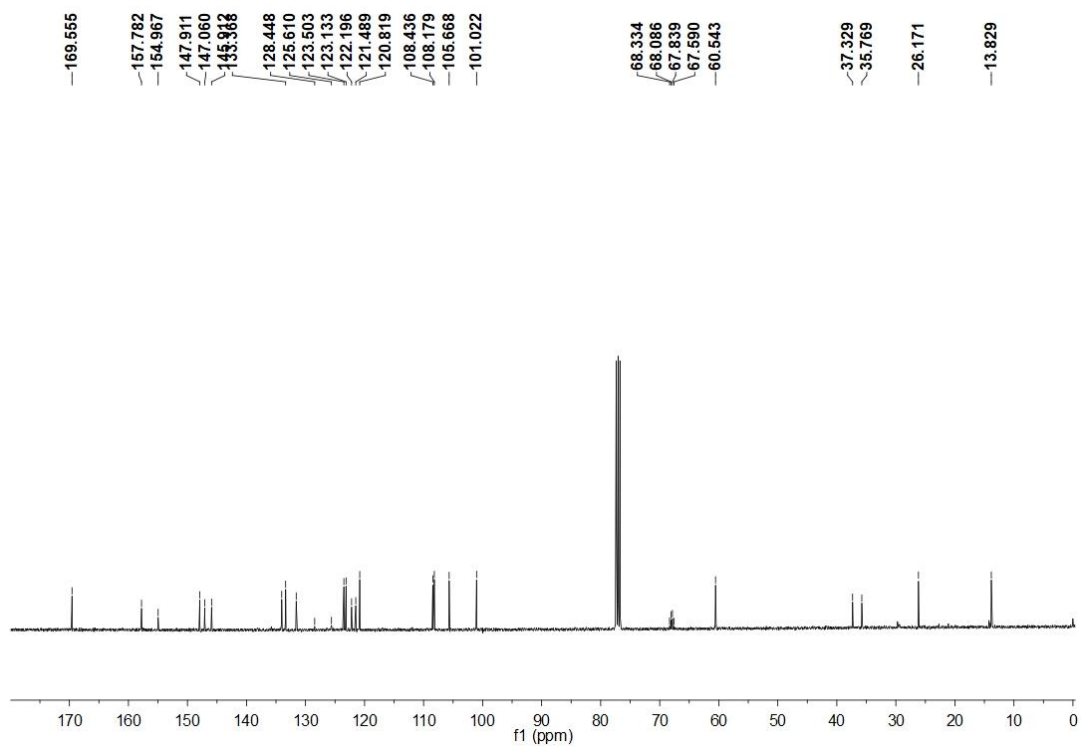
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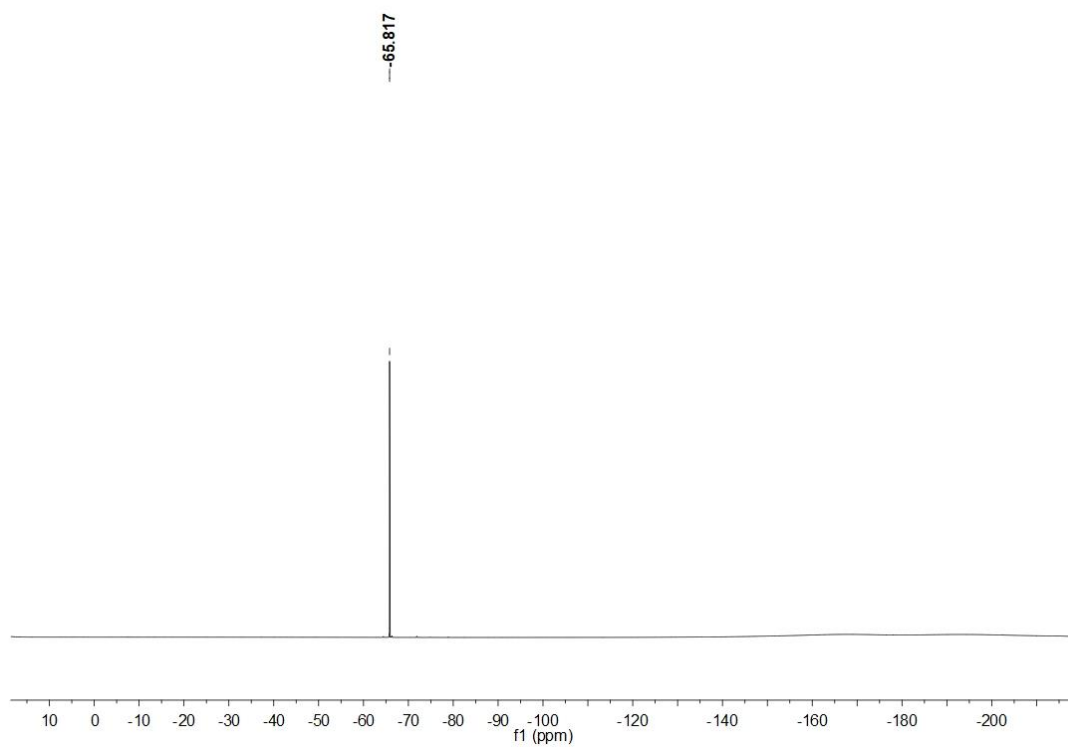
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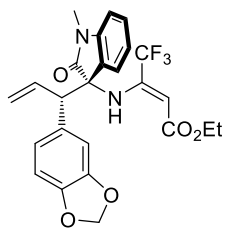
^1H NMR (400 MHz, CDCl_3)



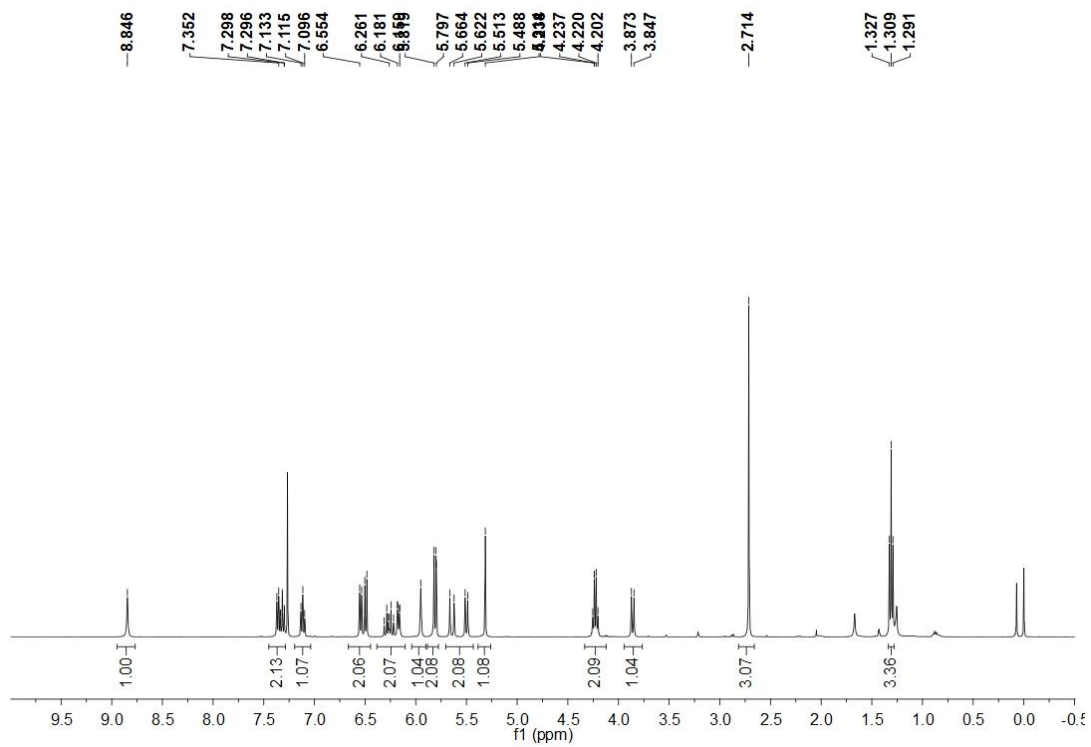
^{13}C NMR (101 MHz, CDCl_3)



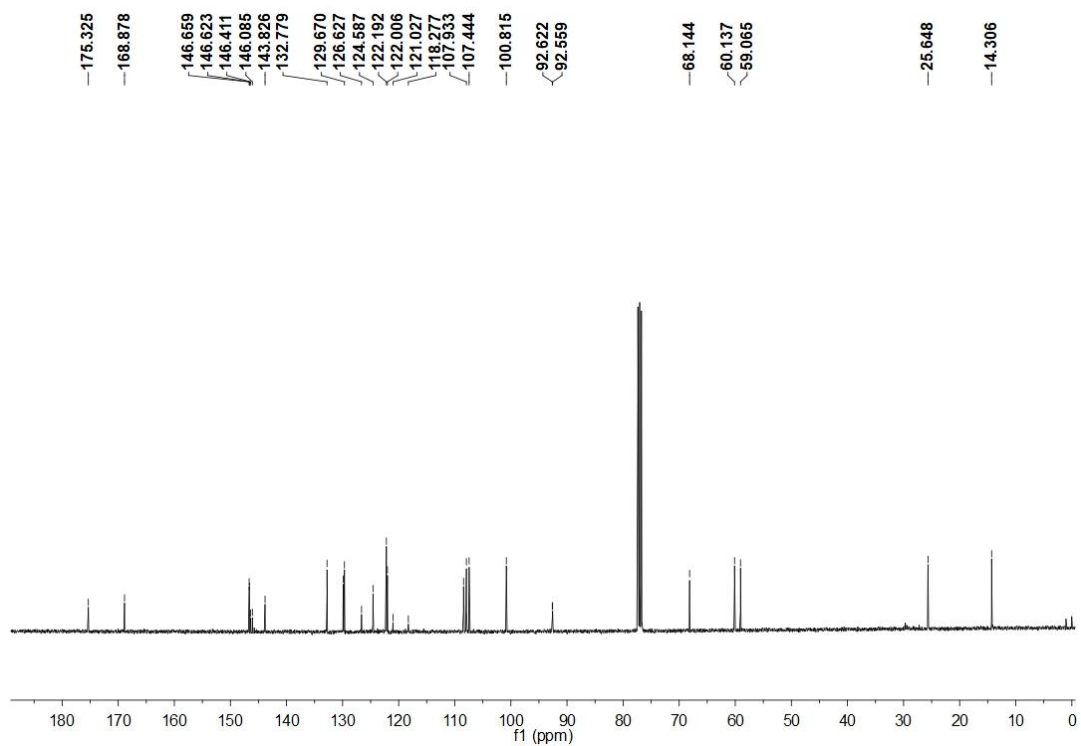
^{19}F NMR (376 MHz, CDCl_3)



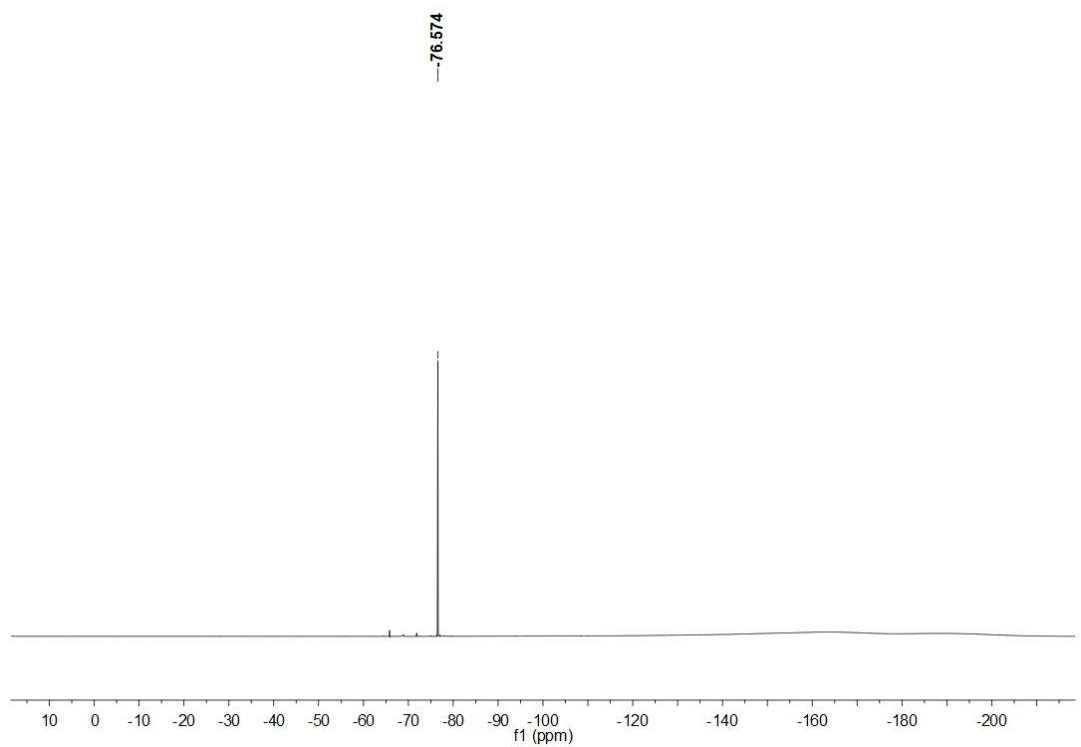
(S,S)-5i



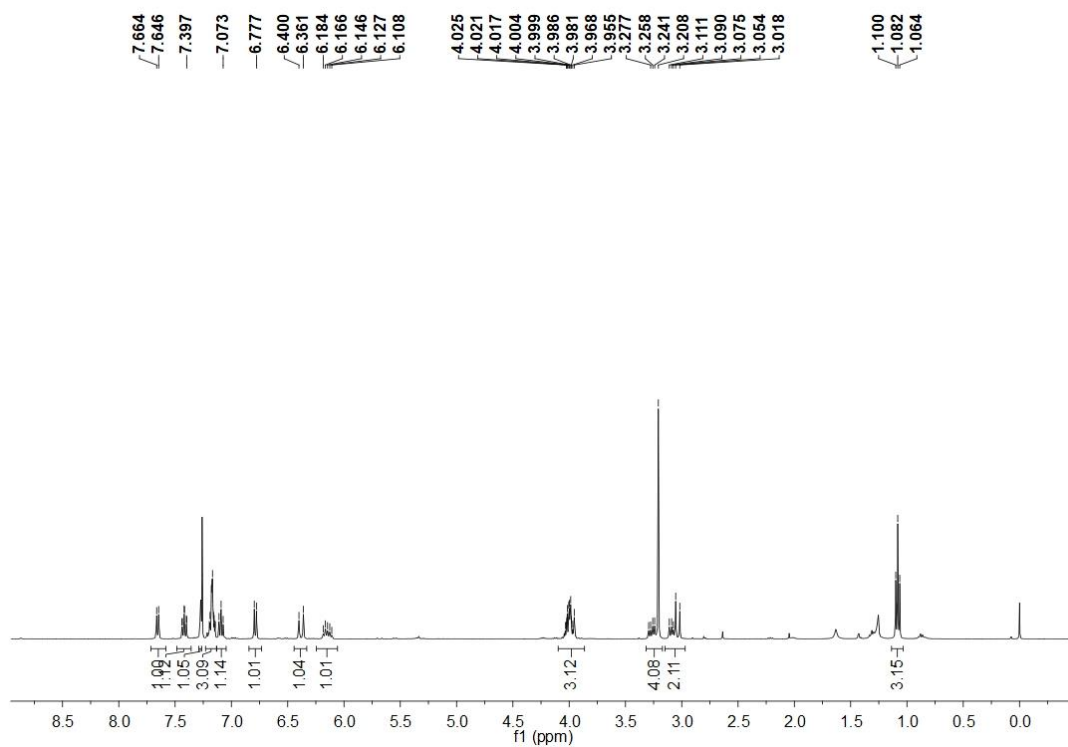
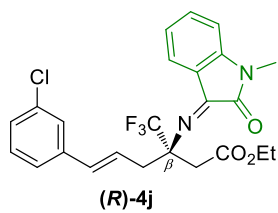
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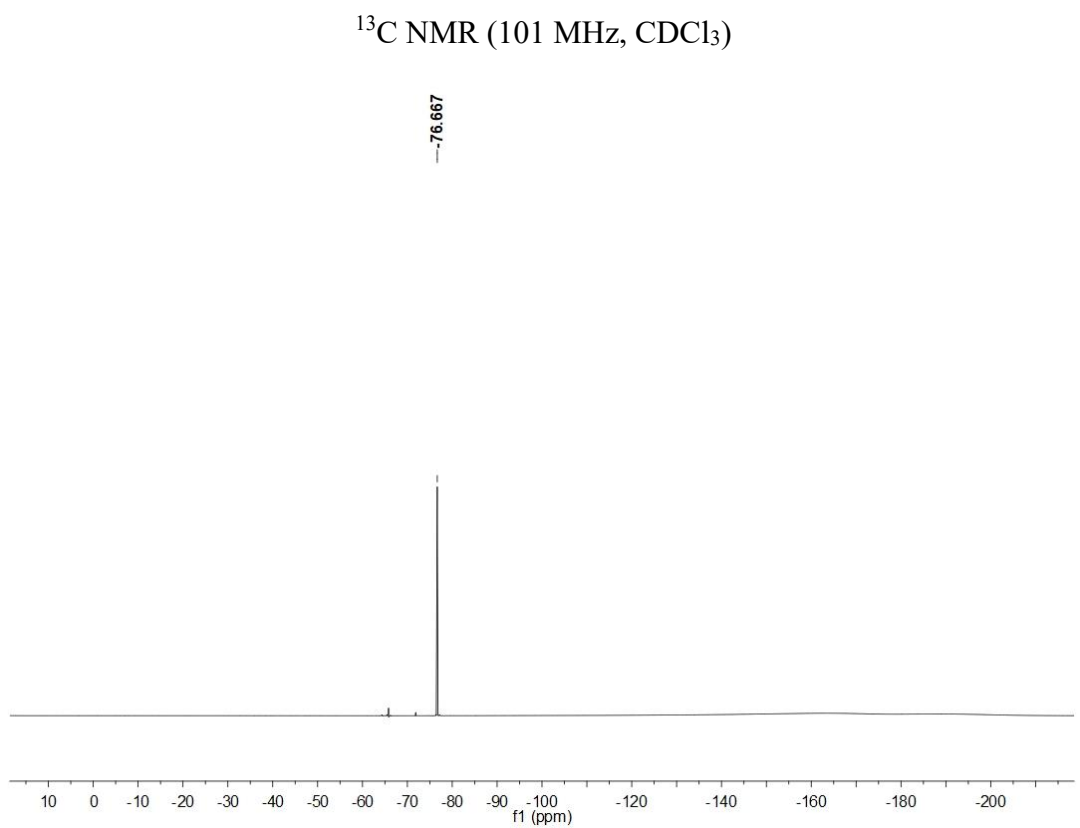
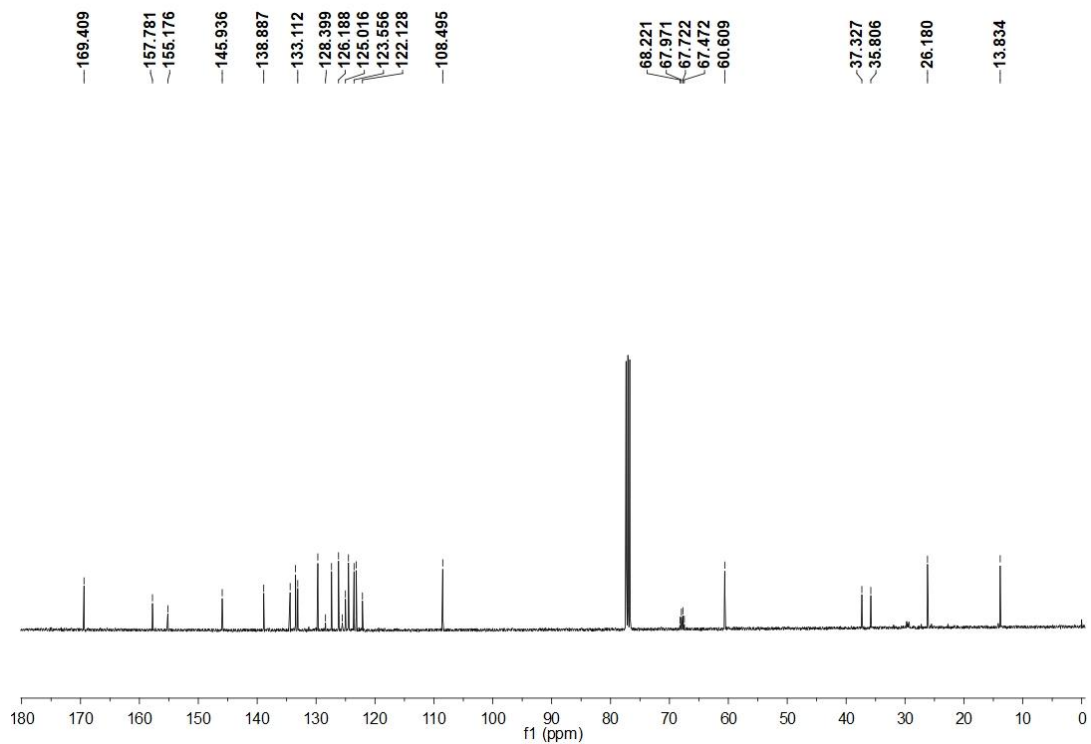
^{13}C NMR (101 MHz, CDCl_3)

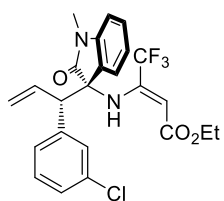


^{19}F NMR (376 MHz, CDCl_3)

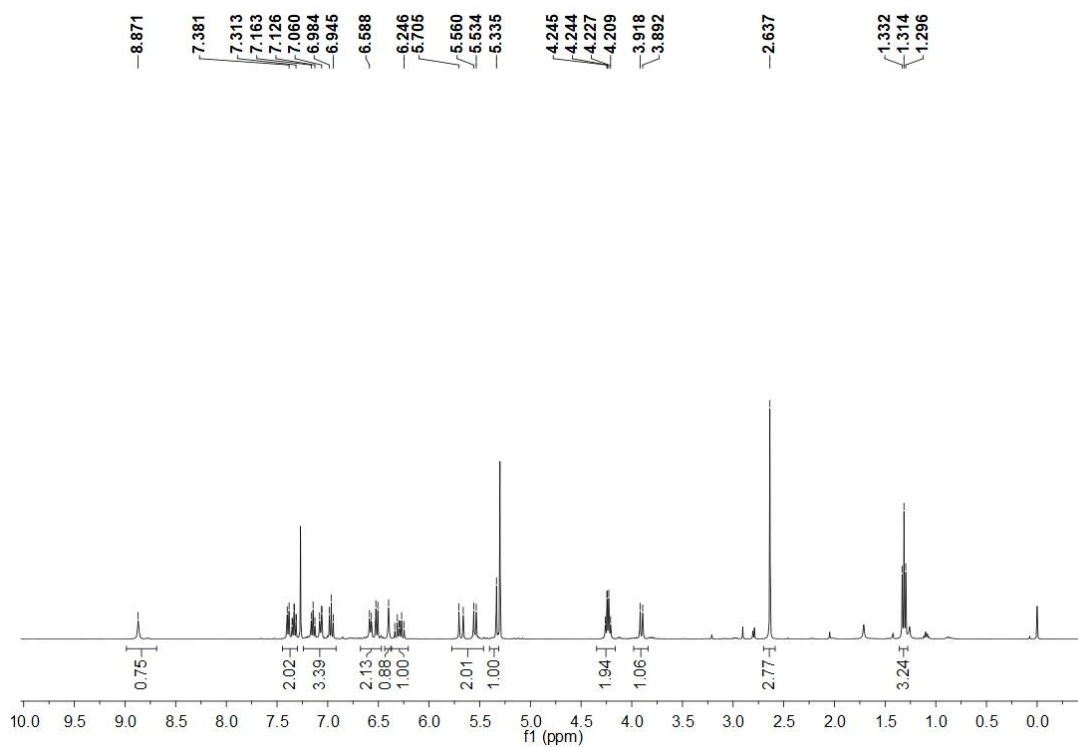


^1H NMR (400 MHz, CDCl_3)

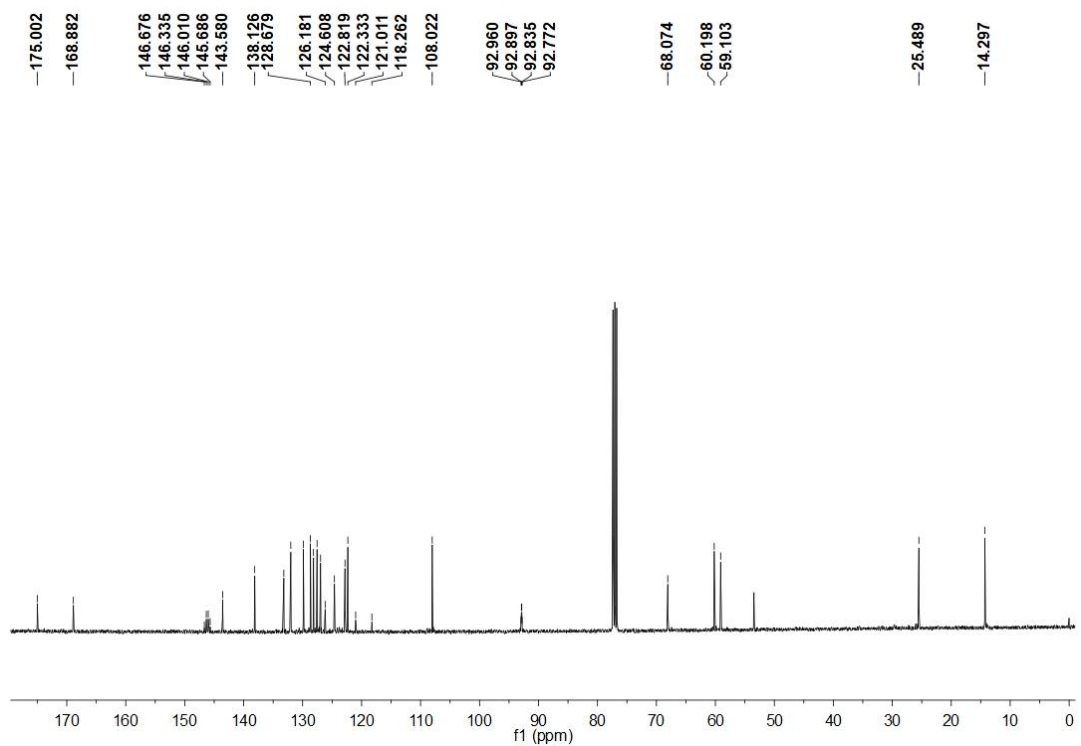




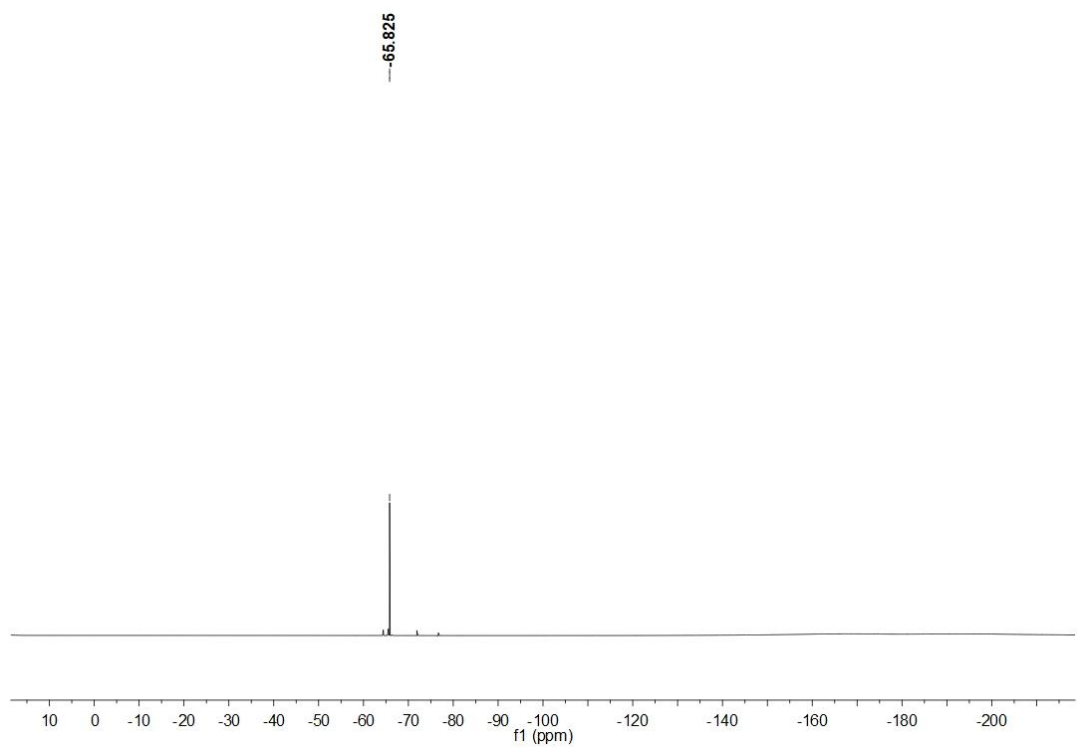
(S,S)-5j



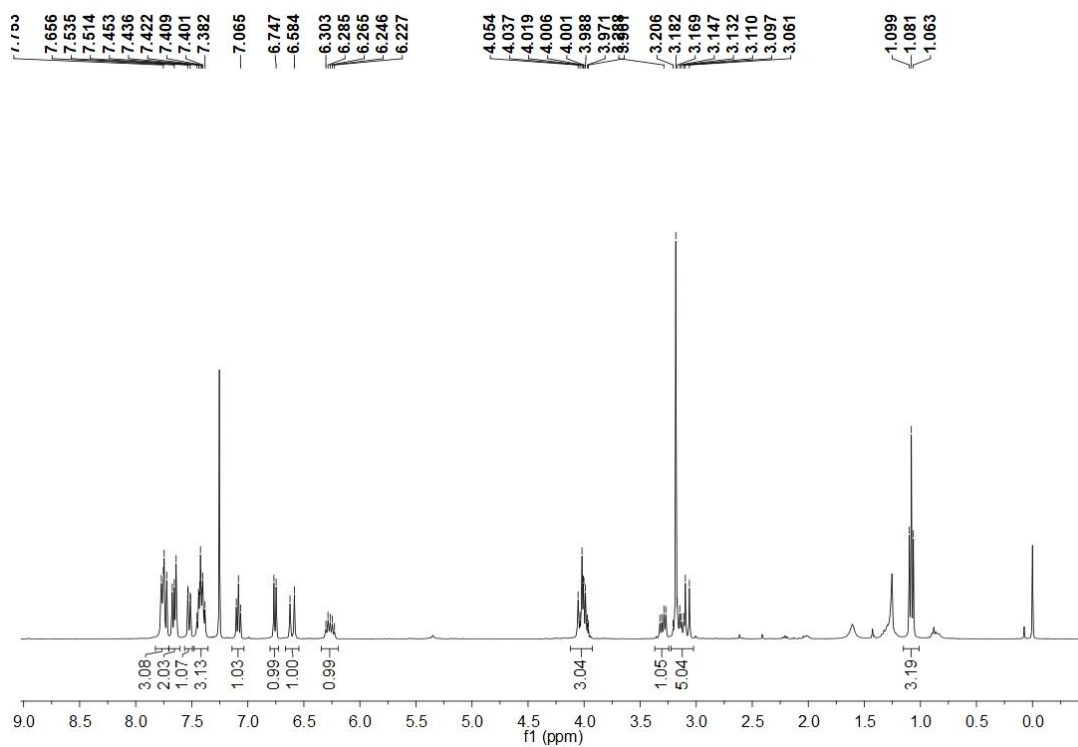
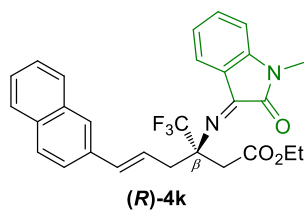
^1H NMR (400 MHz, CDCl_3)



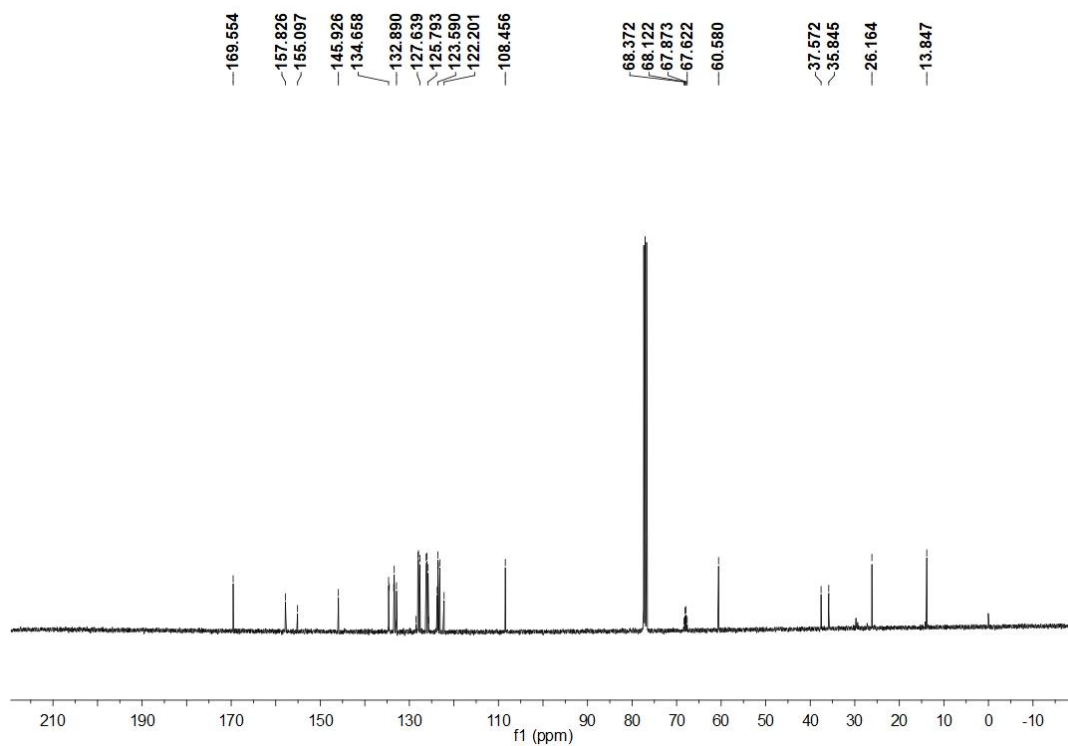
^{13}C NMR (101 MHz, CDCl_3)



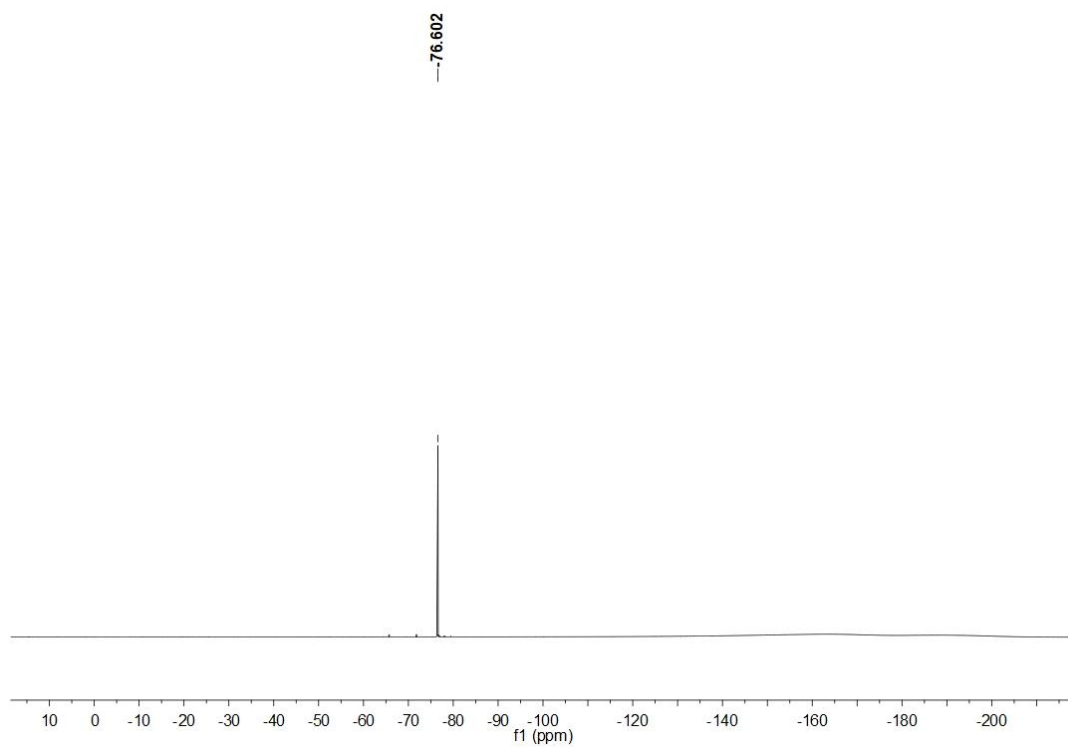
^{19}F NMR (376 MHz, CDCl_3)



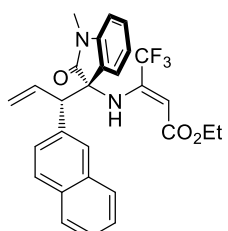
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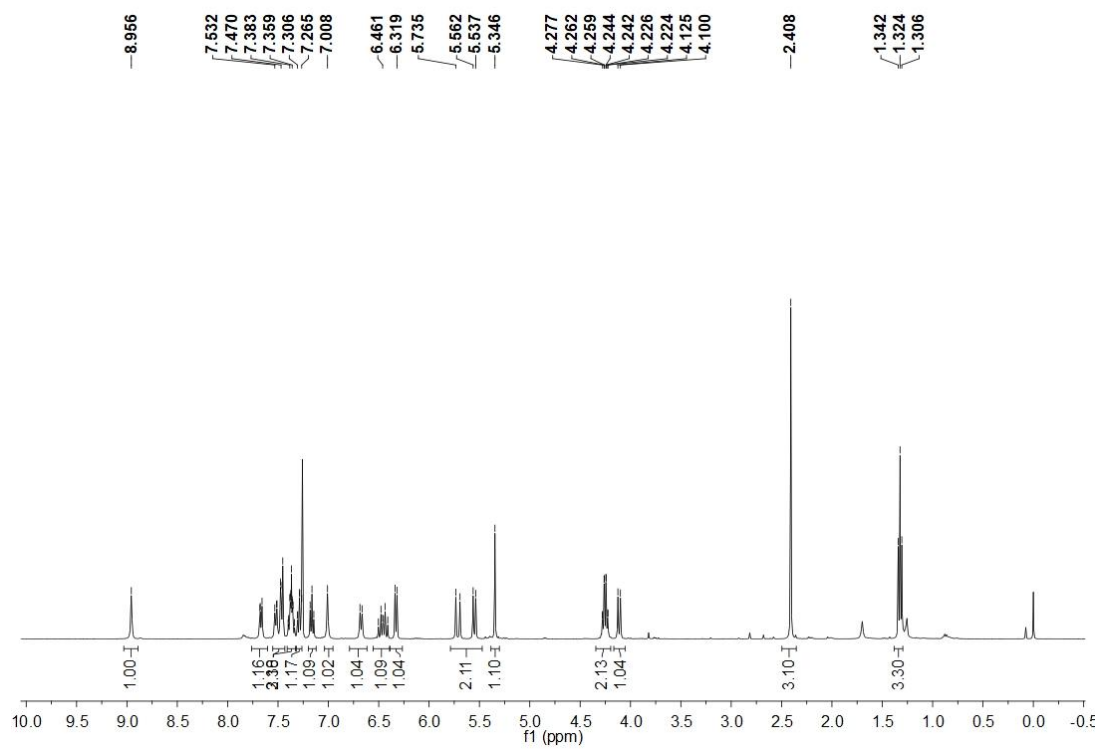
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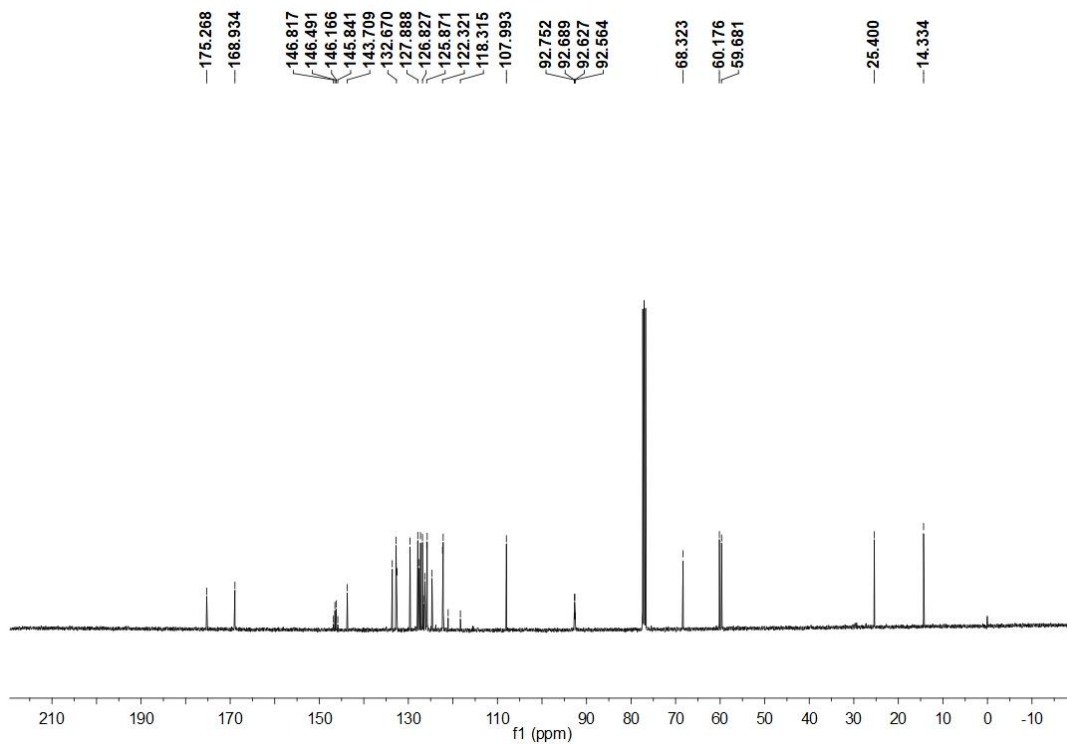
^{19}F NMR (376 MHz, CDCl_3)



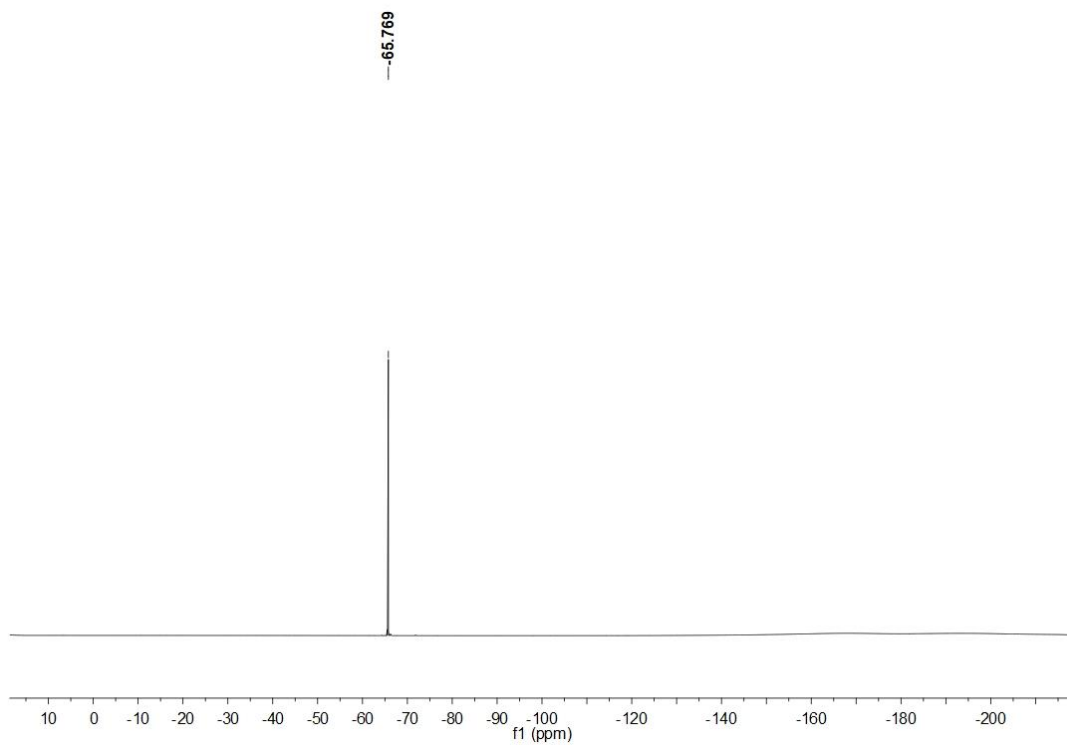
(*S,S*)-5k



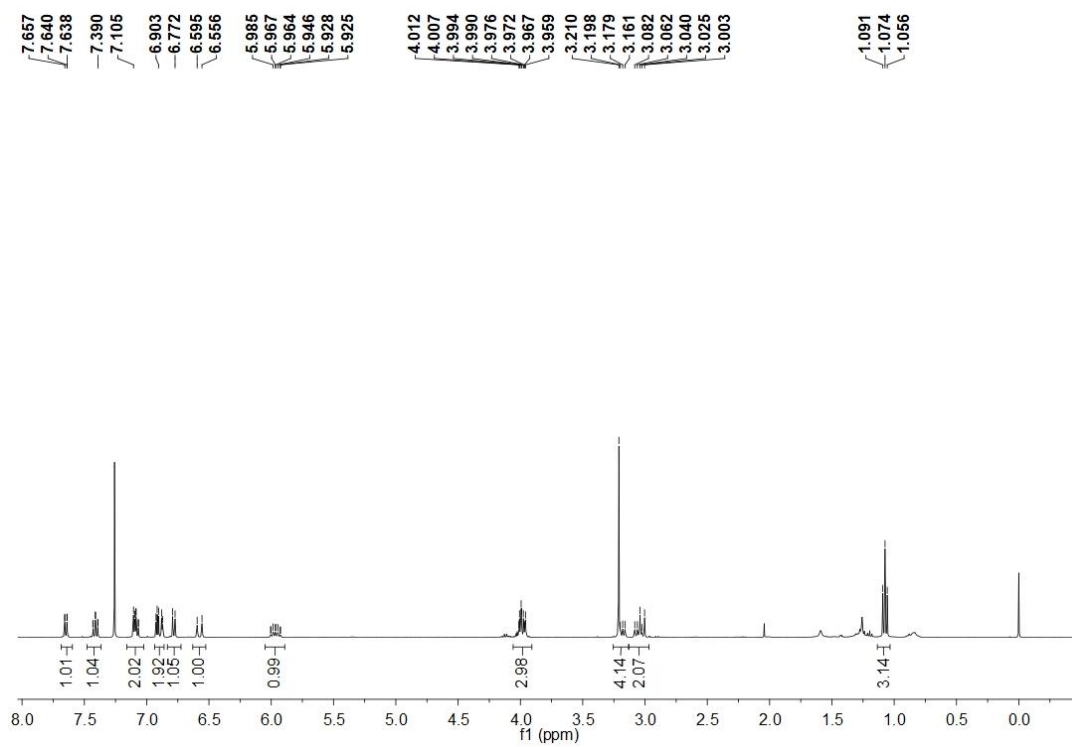
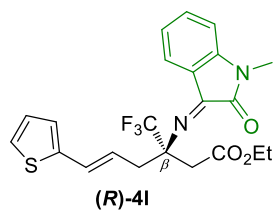
^1H NMR (400 MHz, CDCl_3)



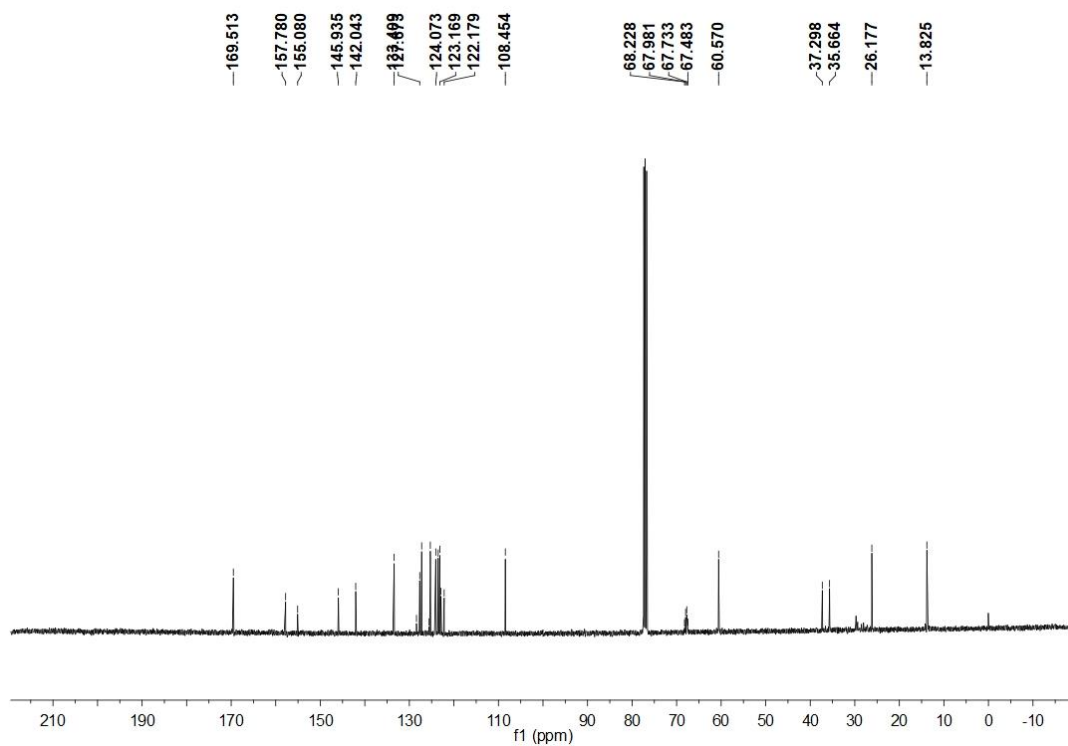
^{13}C NMR (101 MHz, CDCl_3)



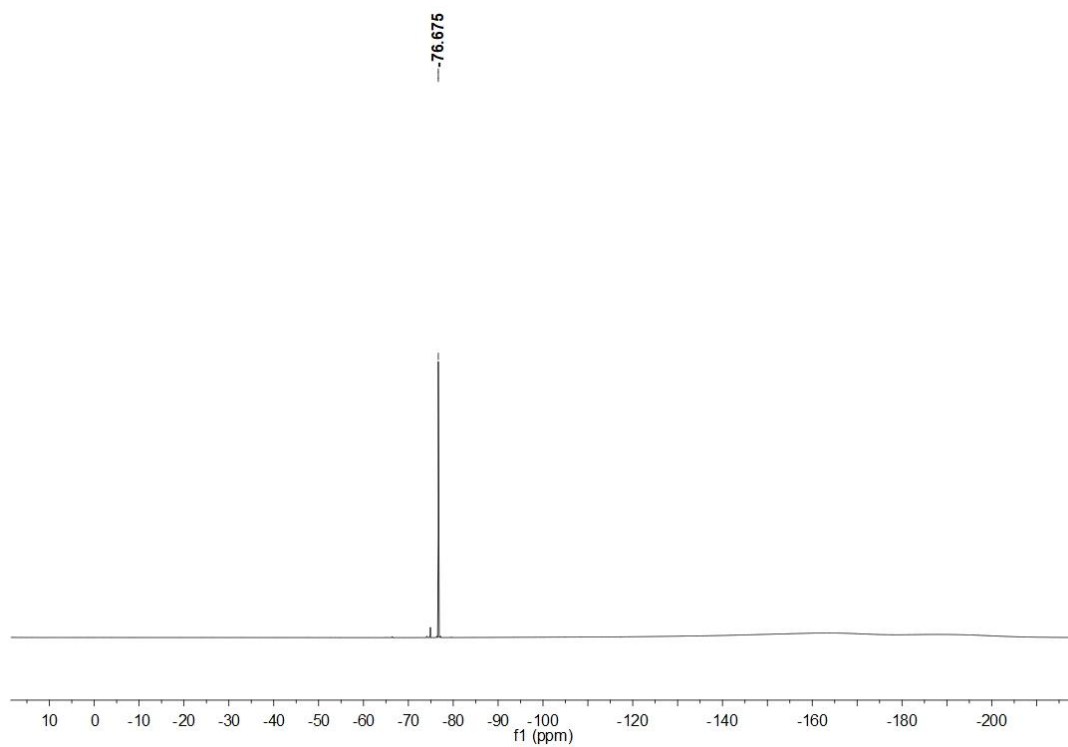
^{19}F NMR (376 MHz, CDCl_3)



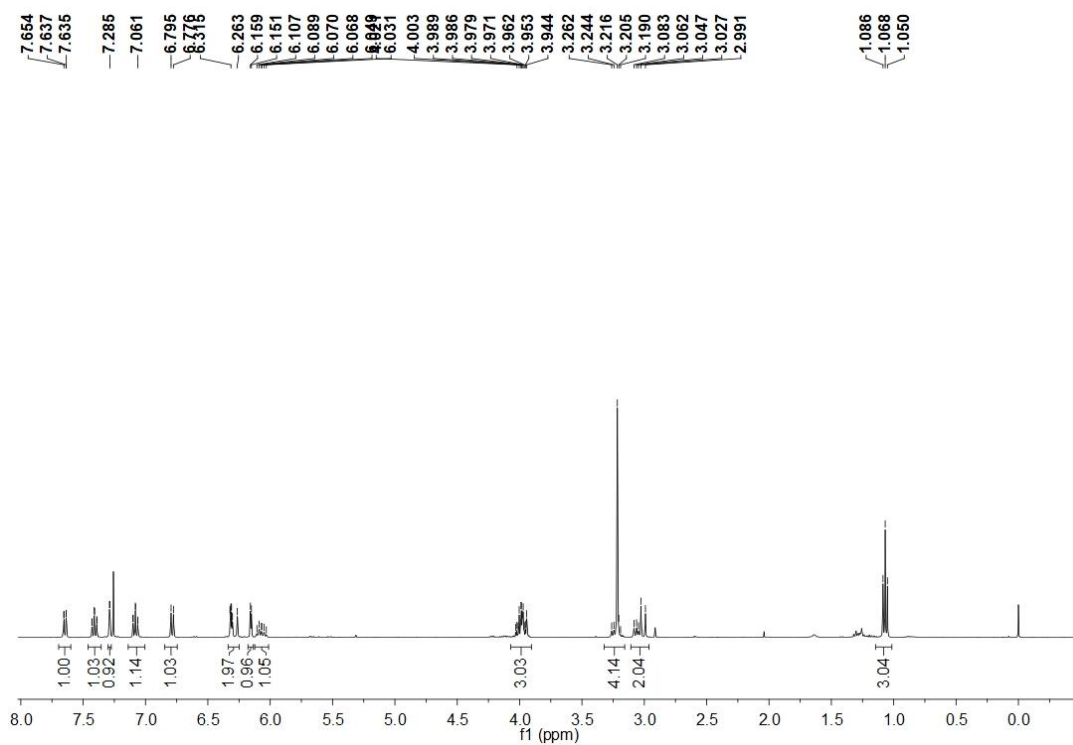
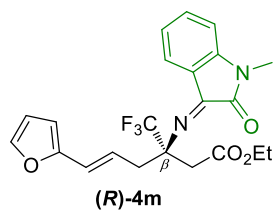
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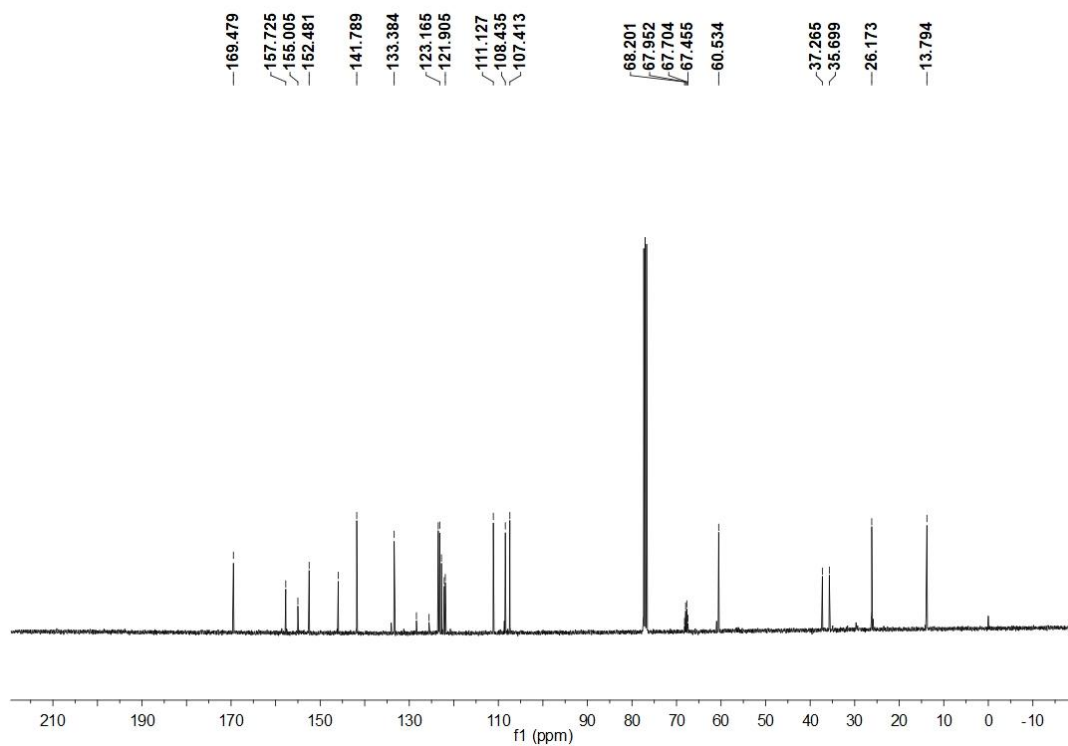
^{13}C NMR (101 MHz, CDCl_3)



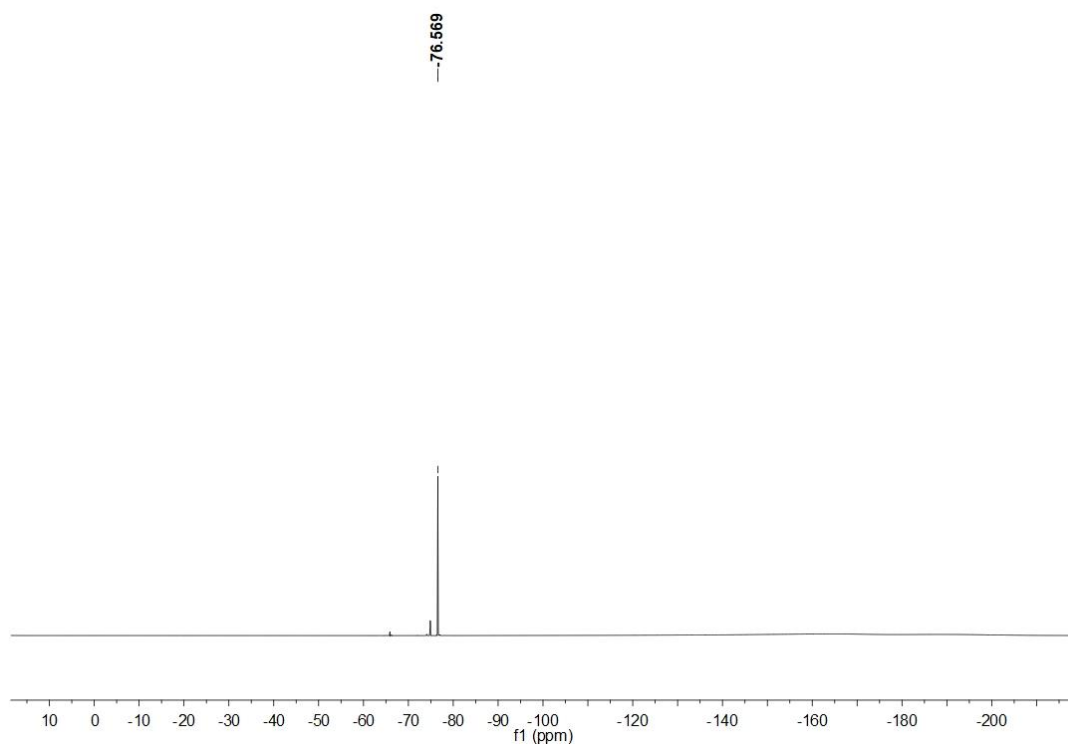
^{19}F NMR (376 MHz, CDCl_3)



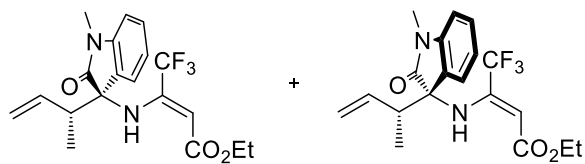
¹H NMR (400 MHz, CDCl₃)



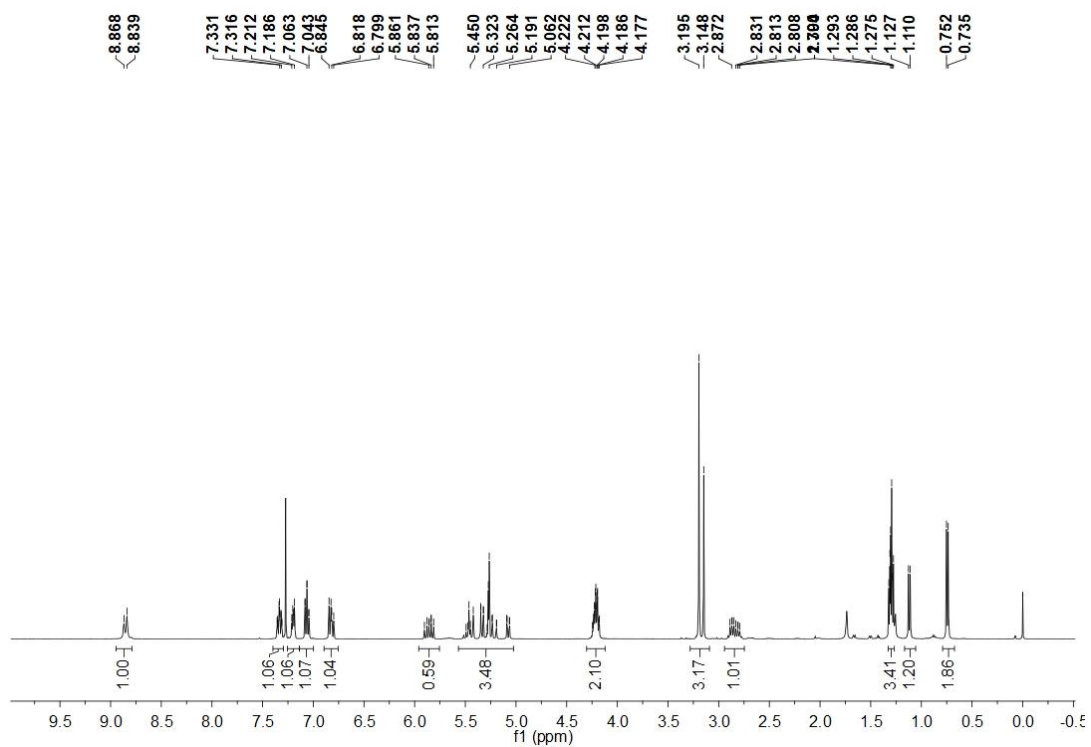
^{13}C NMR (101 MHz, CDCl_3)



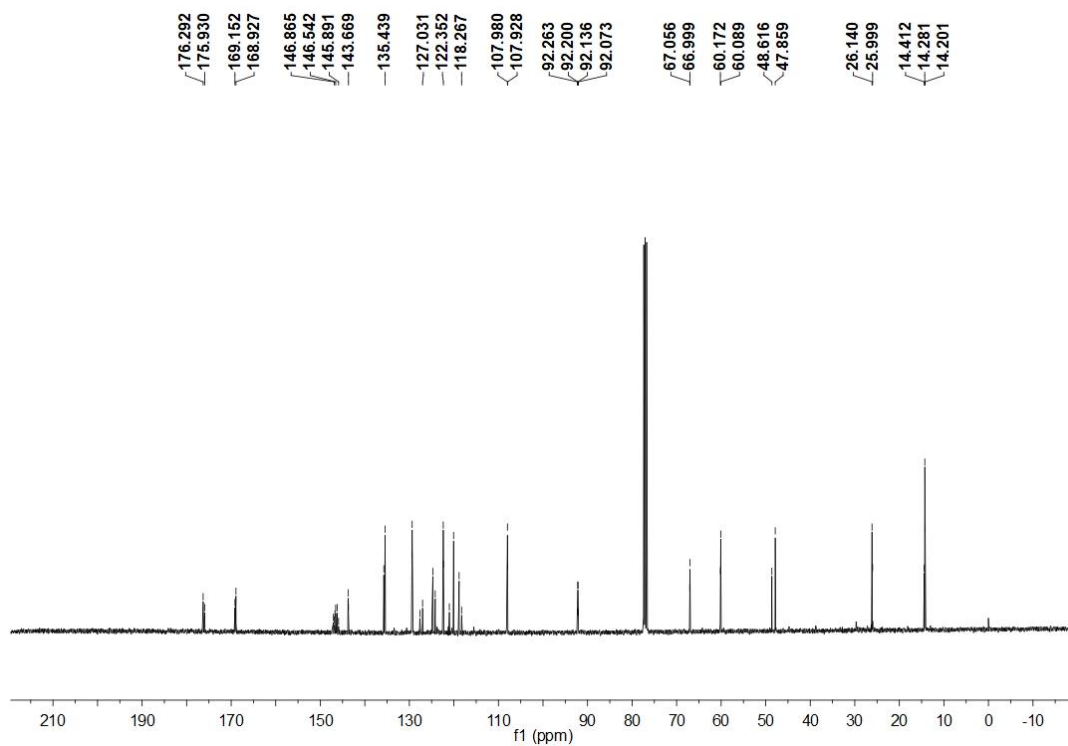
^{19}F NMR (376 MHz, CDCl_3)



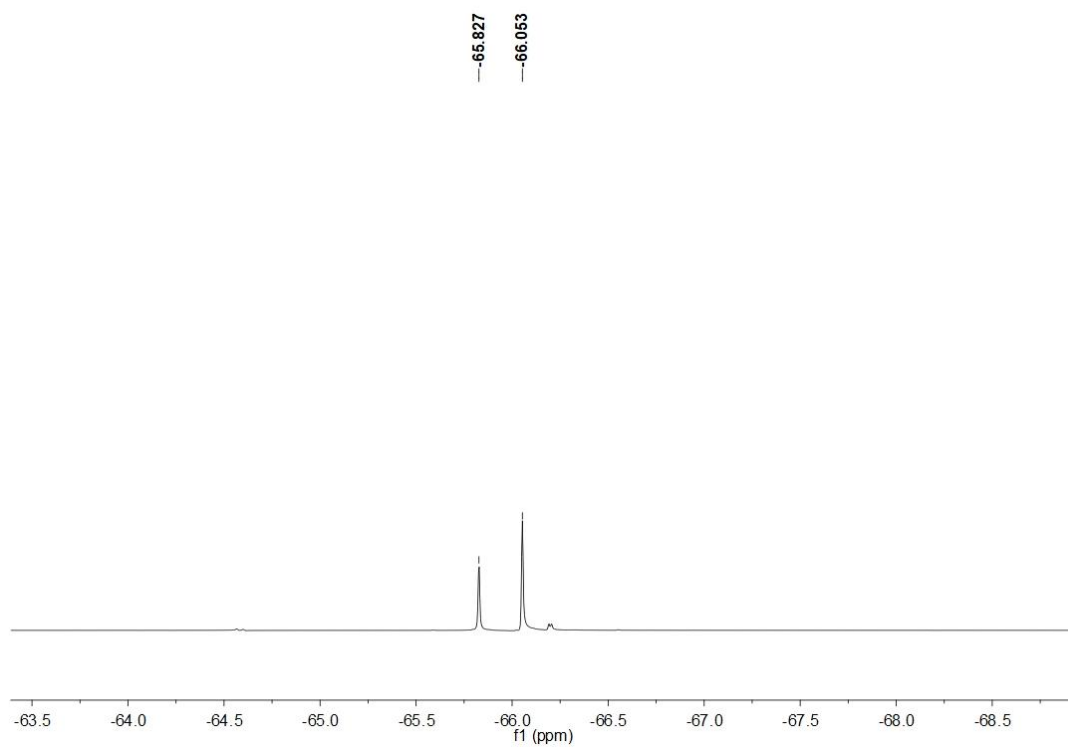
5n (minor + major)



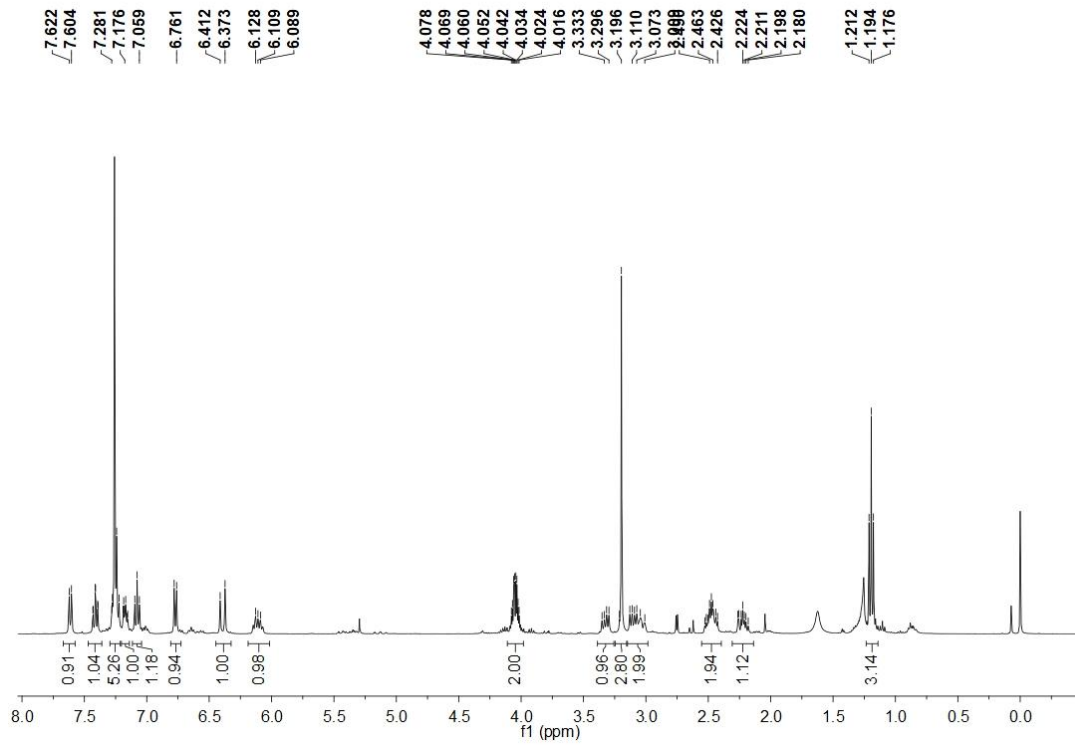
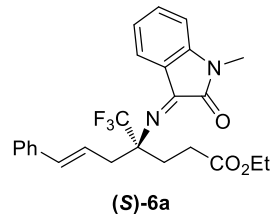
^1H NMR (400 MHz, CDCl_3)



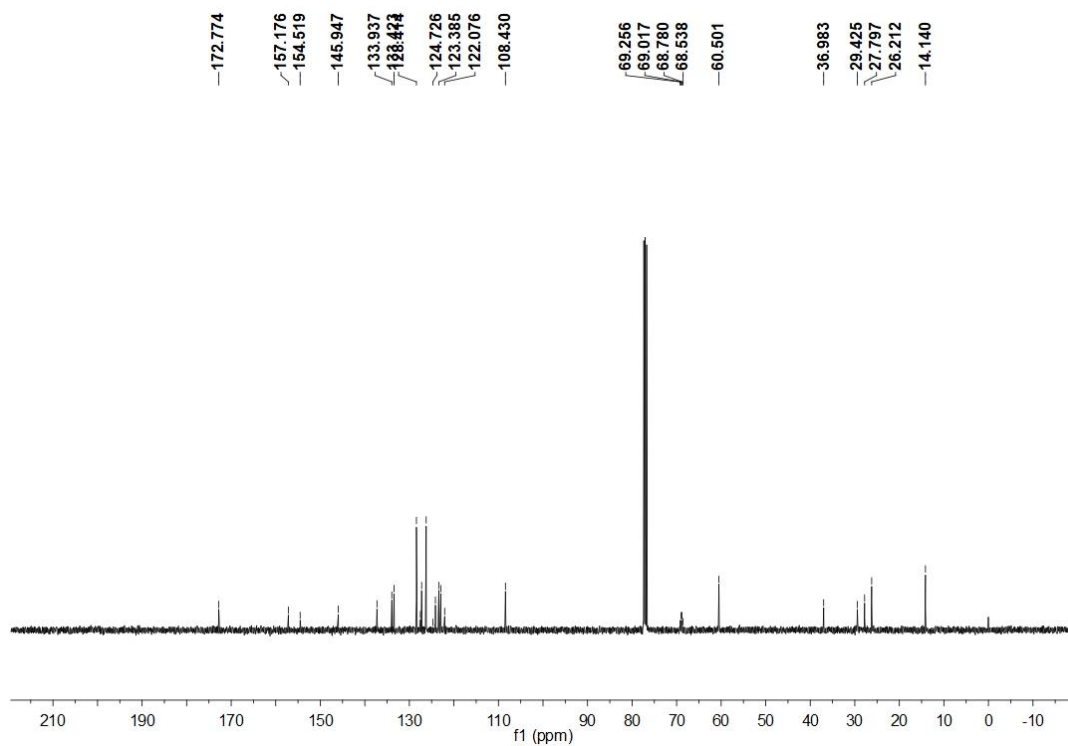
^{13}C NMR (101 MHz, CDCl_3)



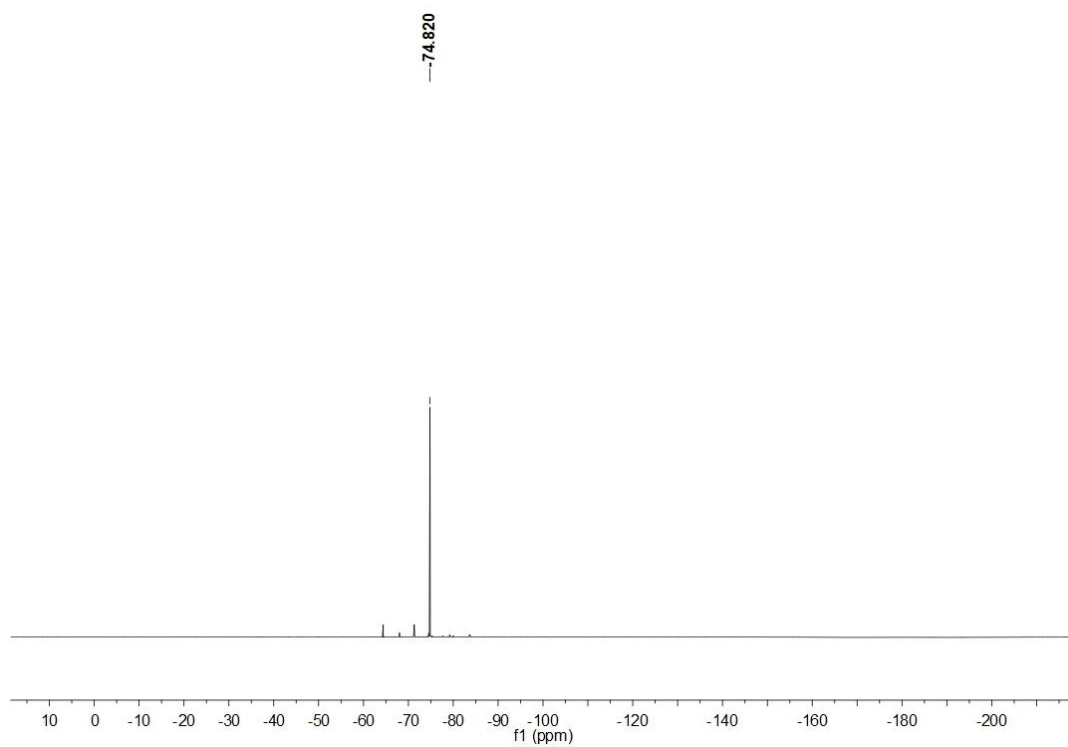
^{19}F NMR (376 MHz, CDCl_3)



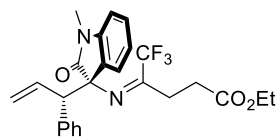
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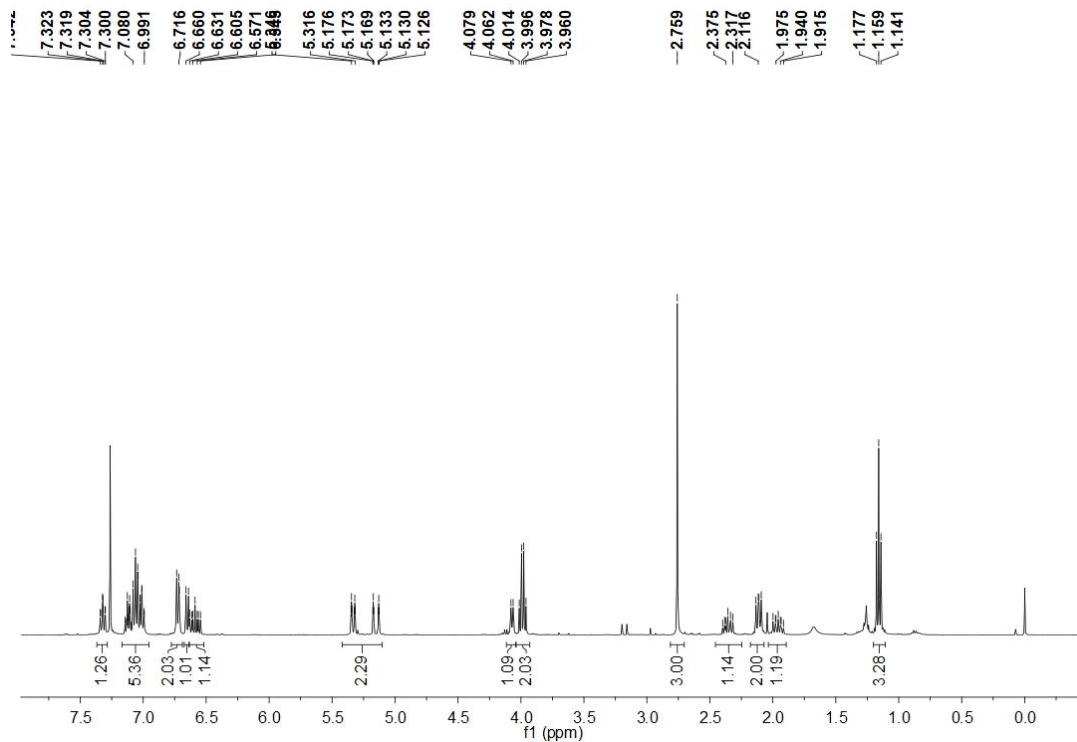
^{13}C NMR (101 MHz, CDCl_3)



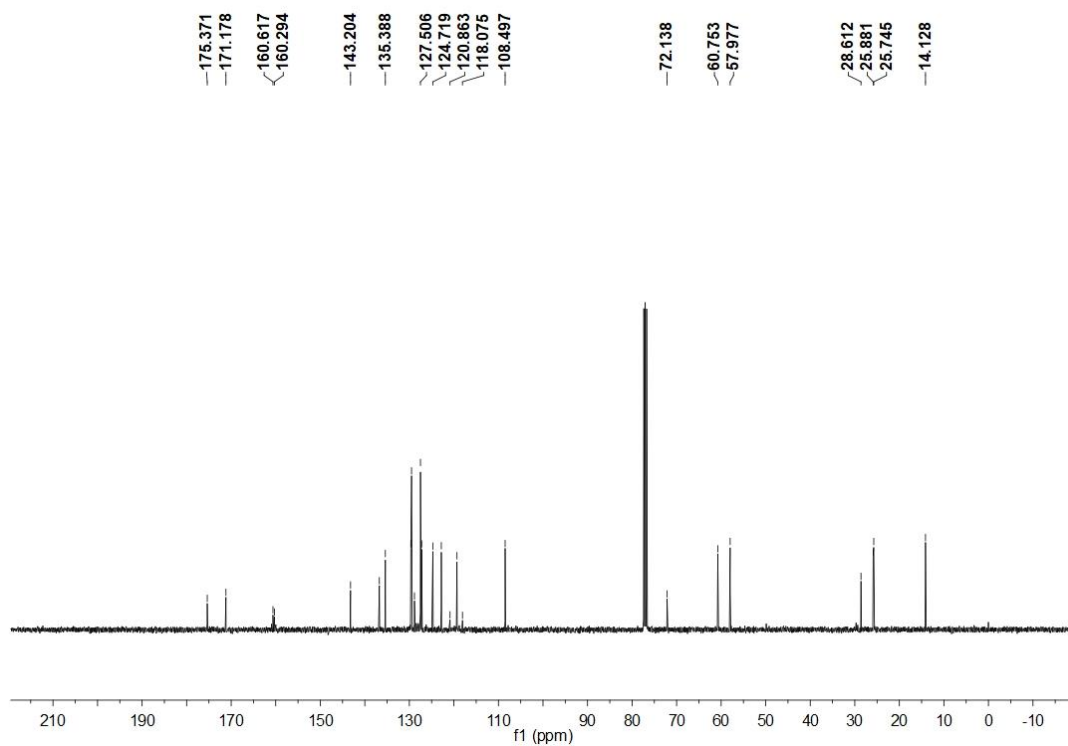
^{19}F NMR (376 MHz, CDCl_3)



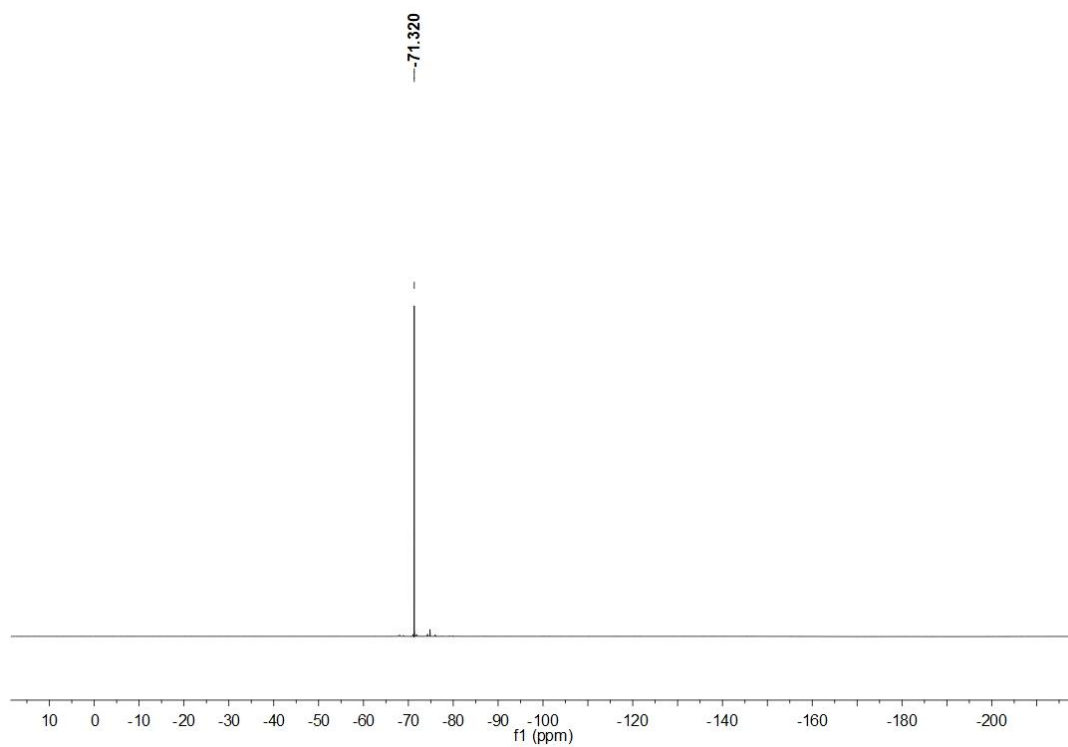
(S,S)-7a



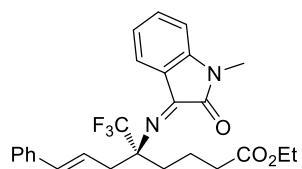
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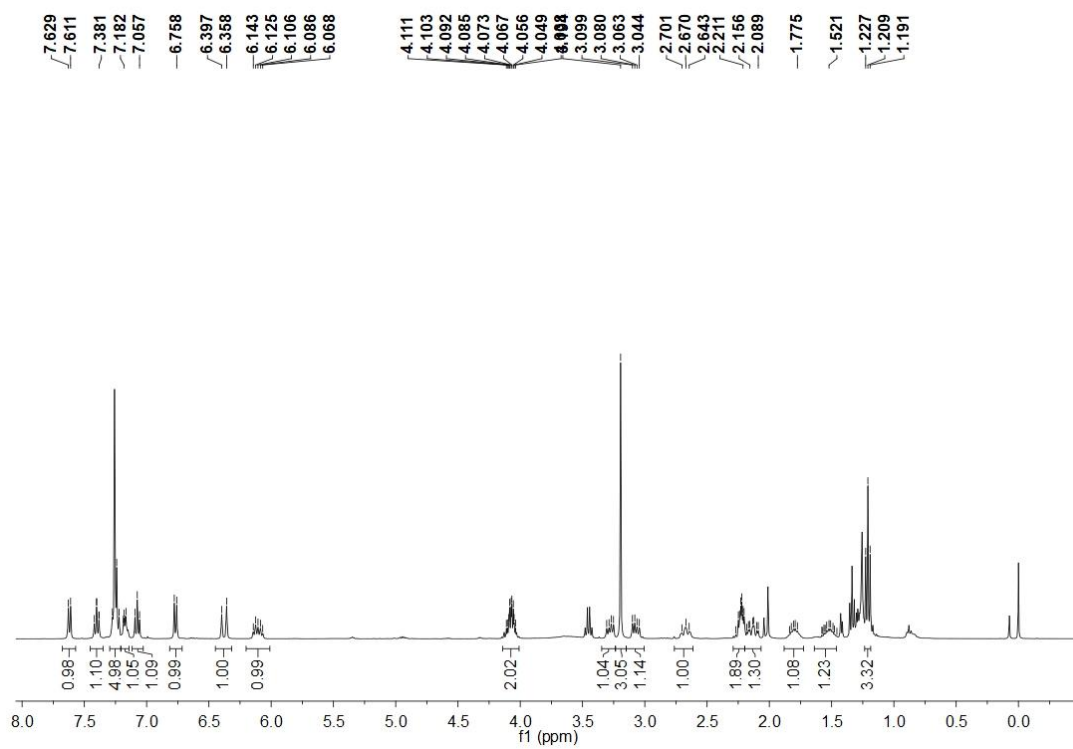
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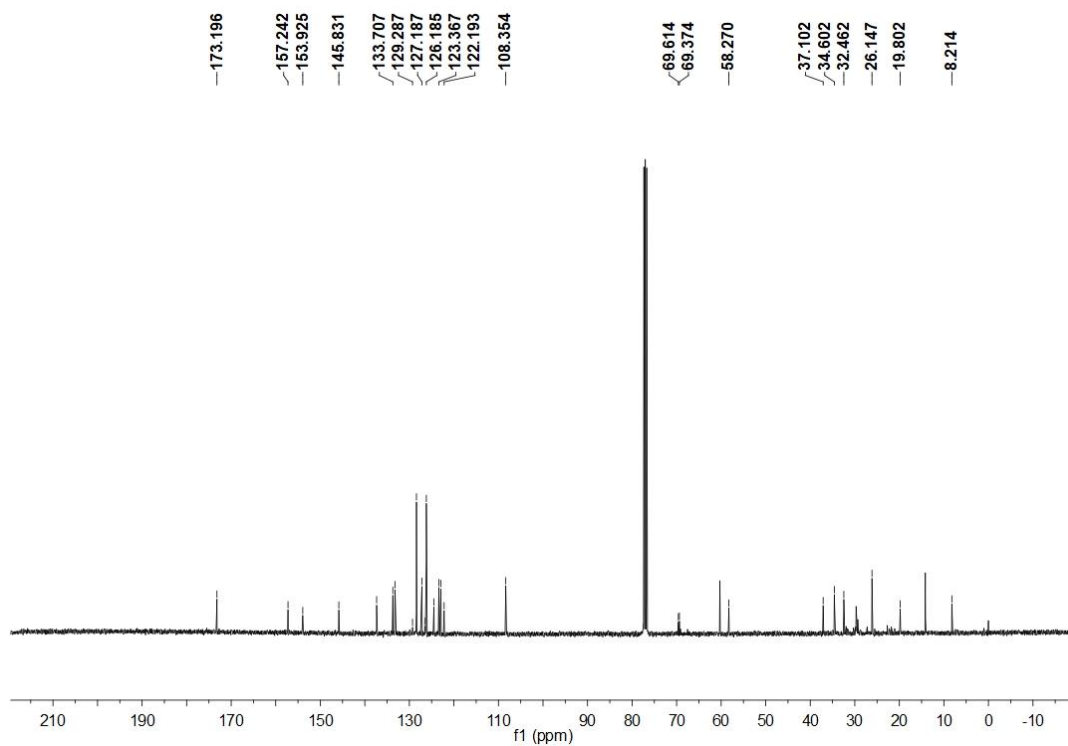
^{19}F NMR (376 MHz, CDCl_3)



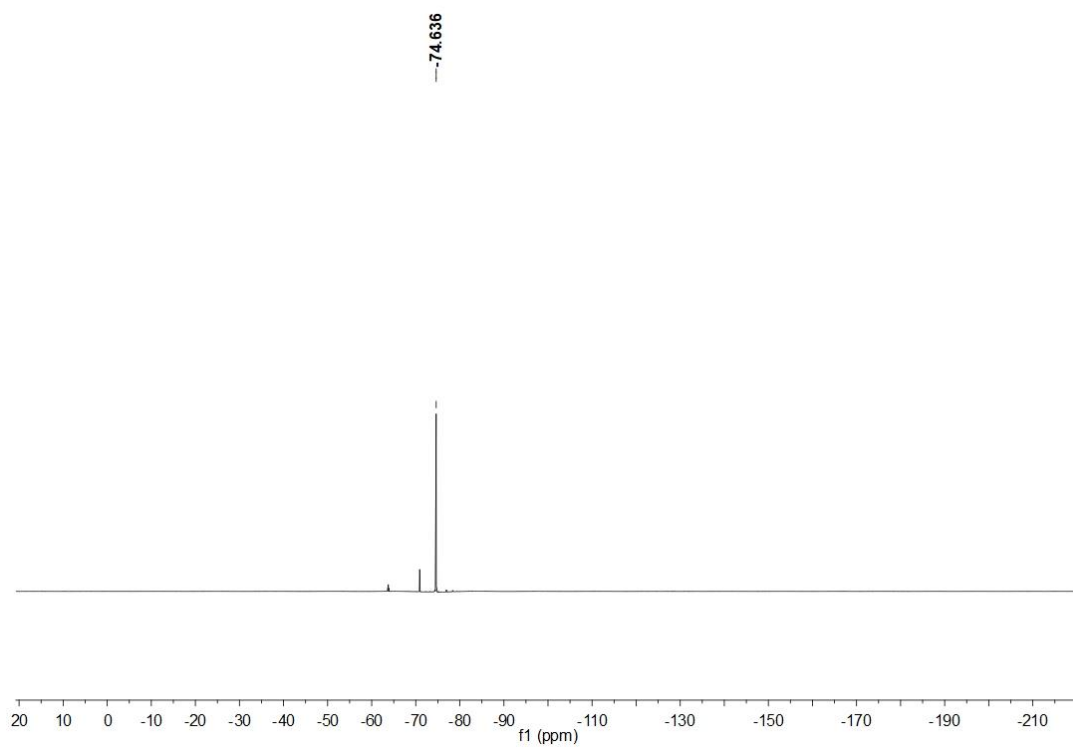
(S)-6b



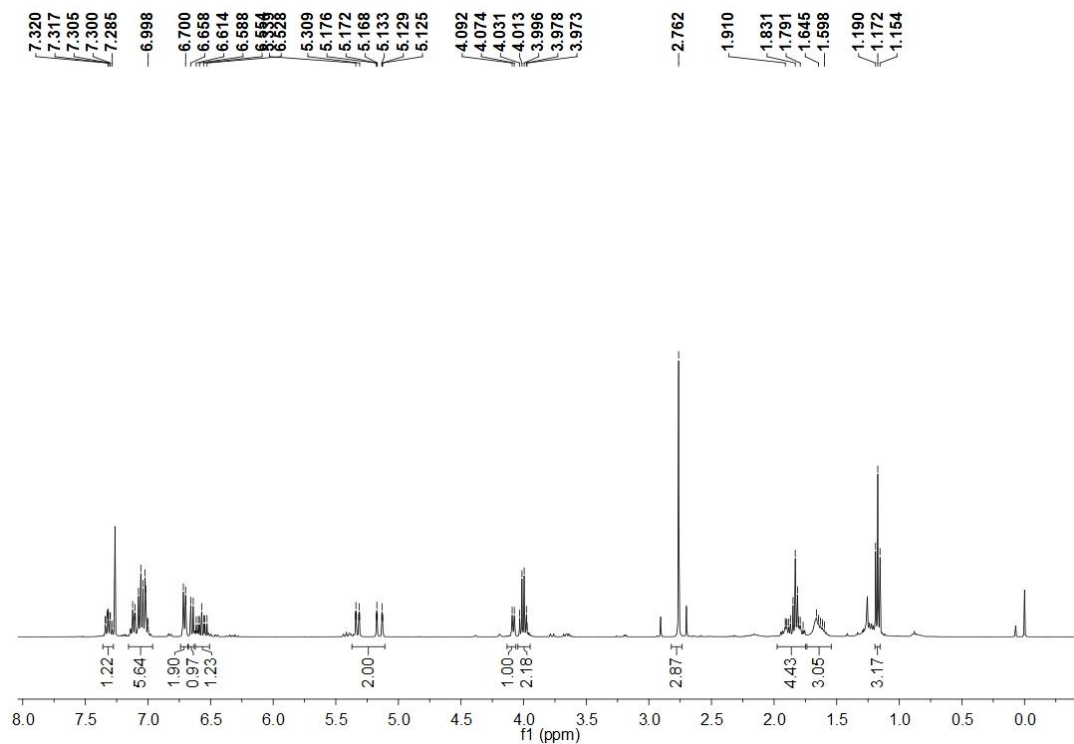
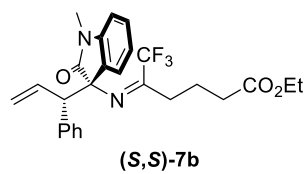
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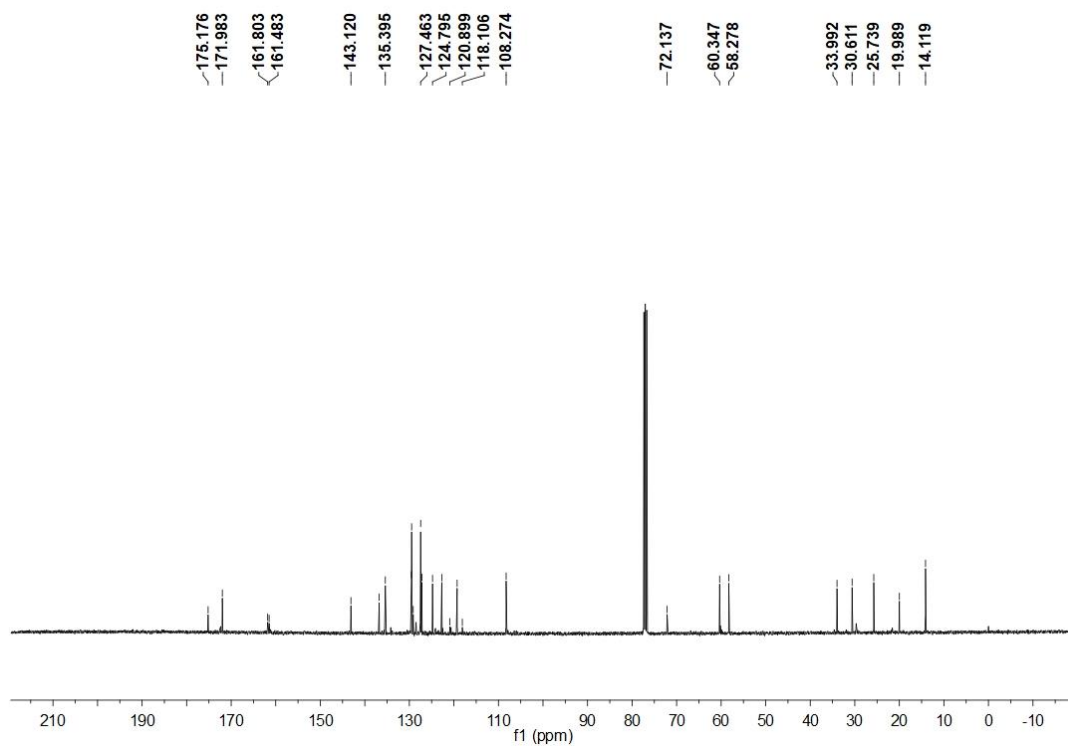
^{13}C NMR (101 MHz, CDCl_3)



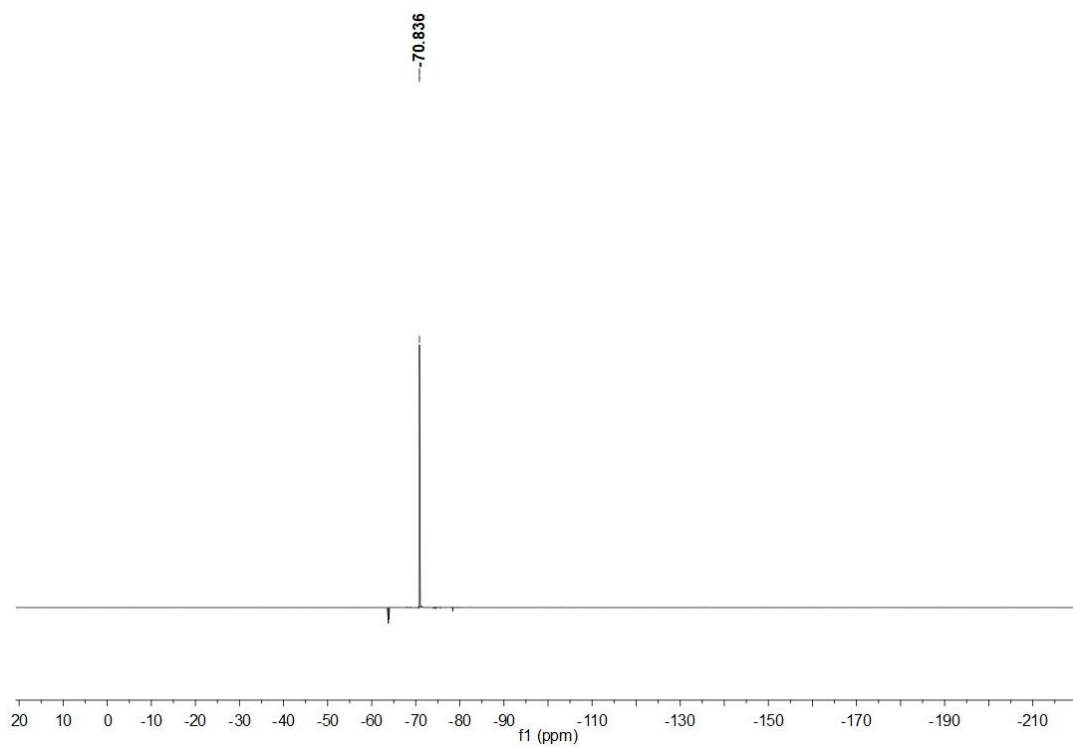
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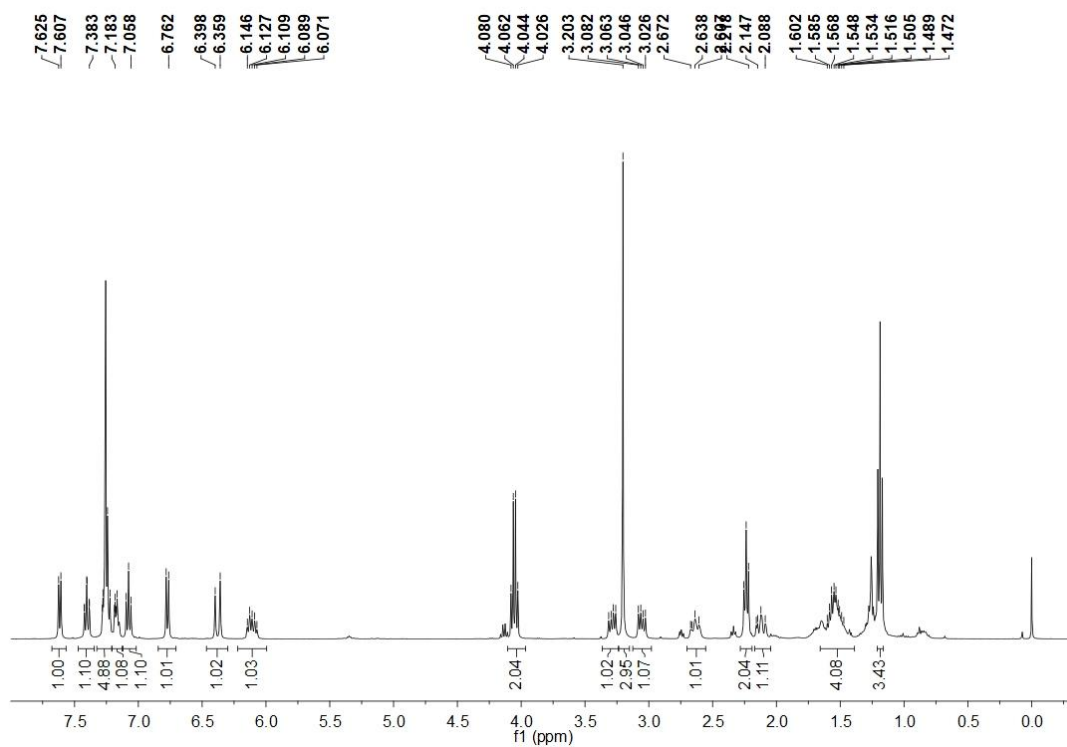
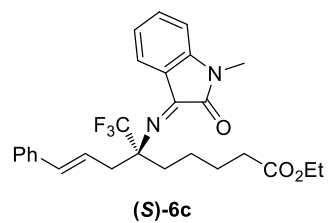
^1H NMR (400 MHz, CDCl_3)



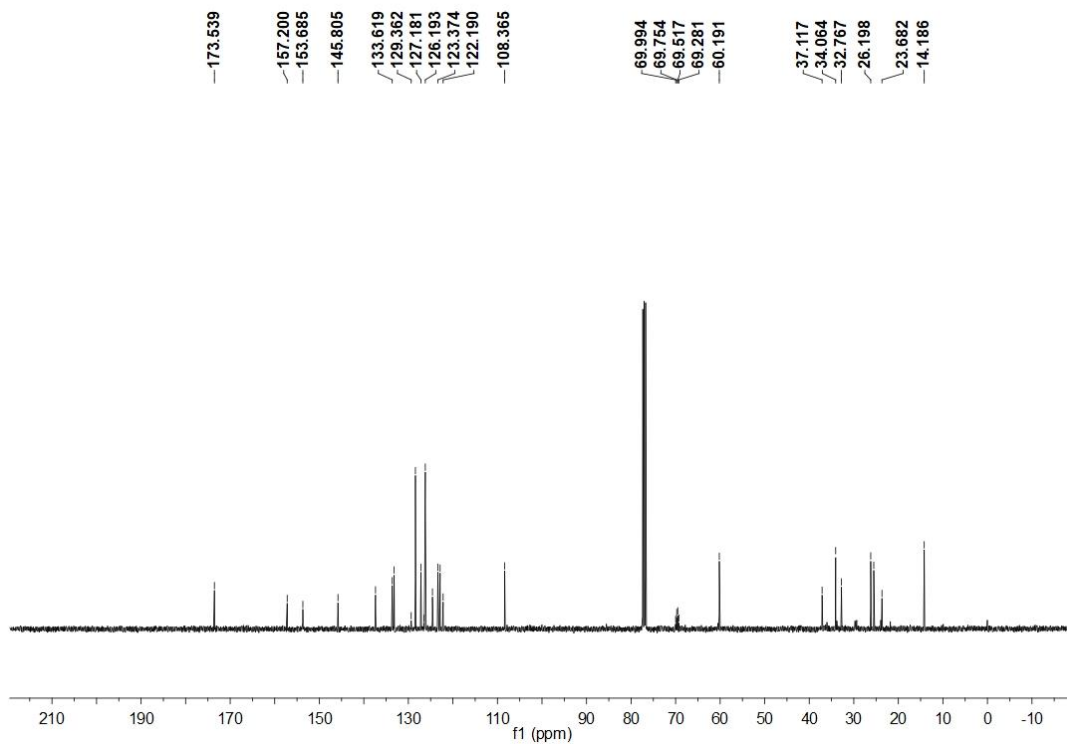
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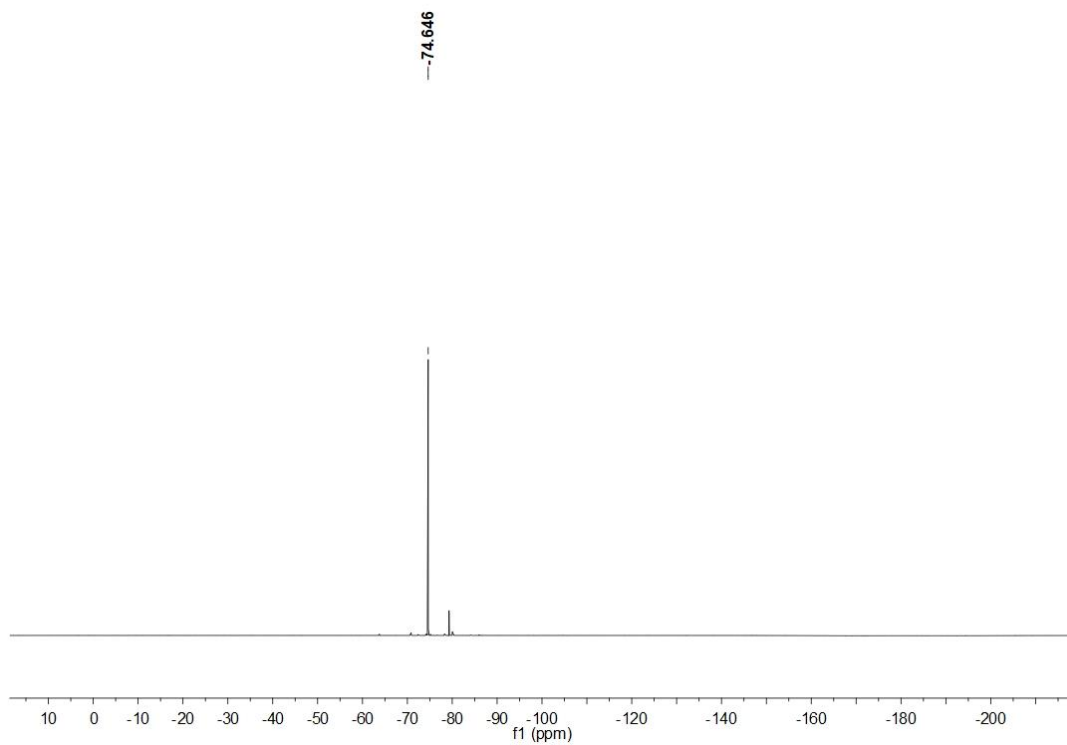
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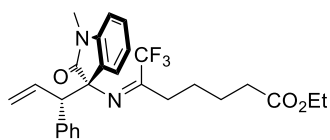
^1H NMR (400 MHz, CDCl_3)



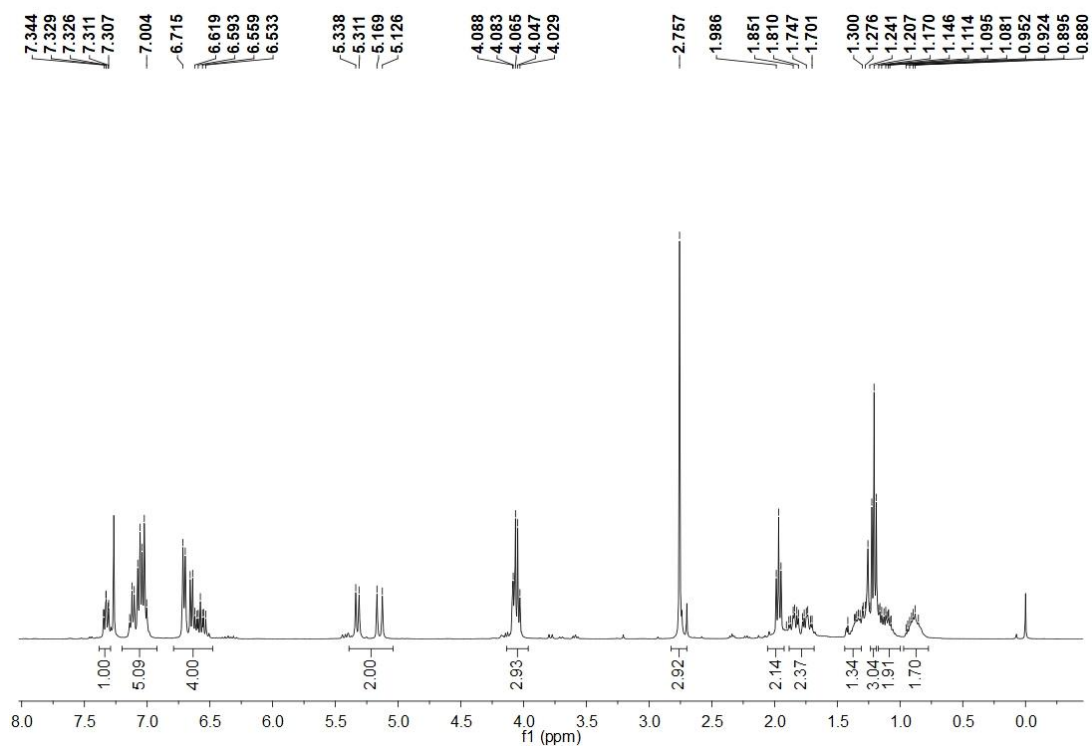
^{13}C NMR (101 MHz, CDCl_3)



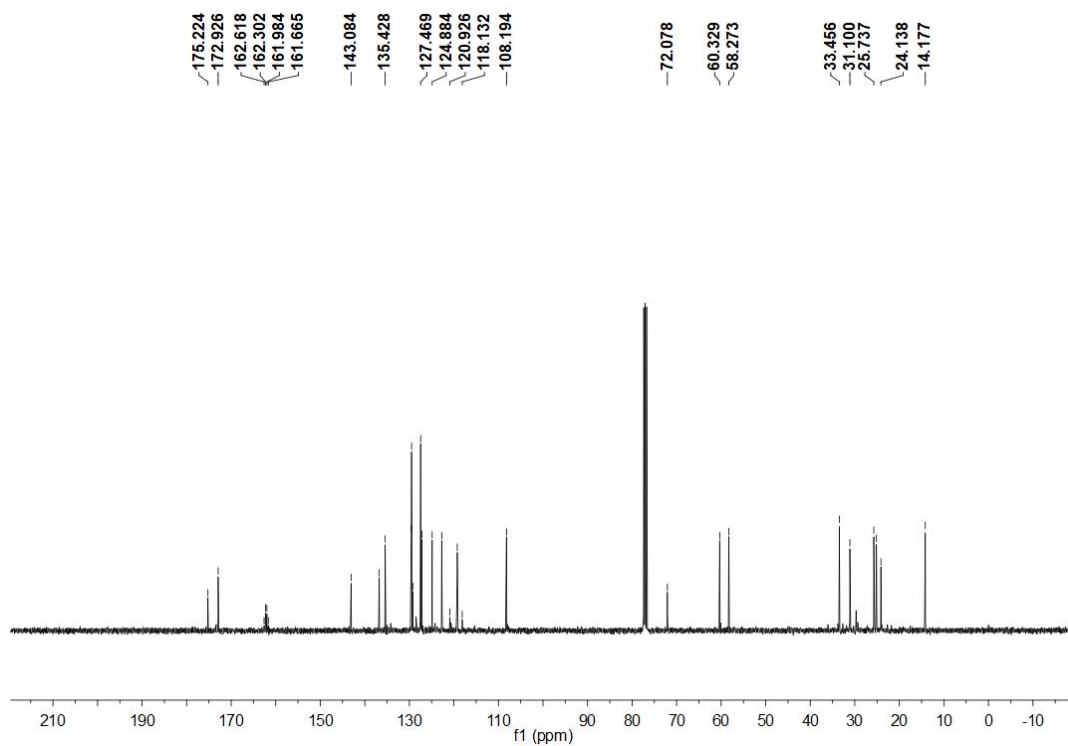
^{19}F NMR (376 MHz, CDCl_3)



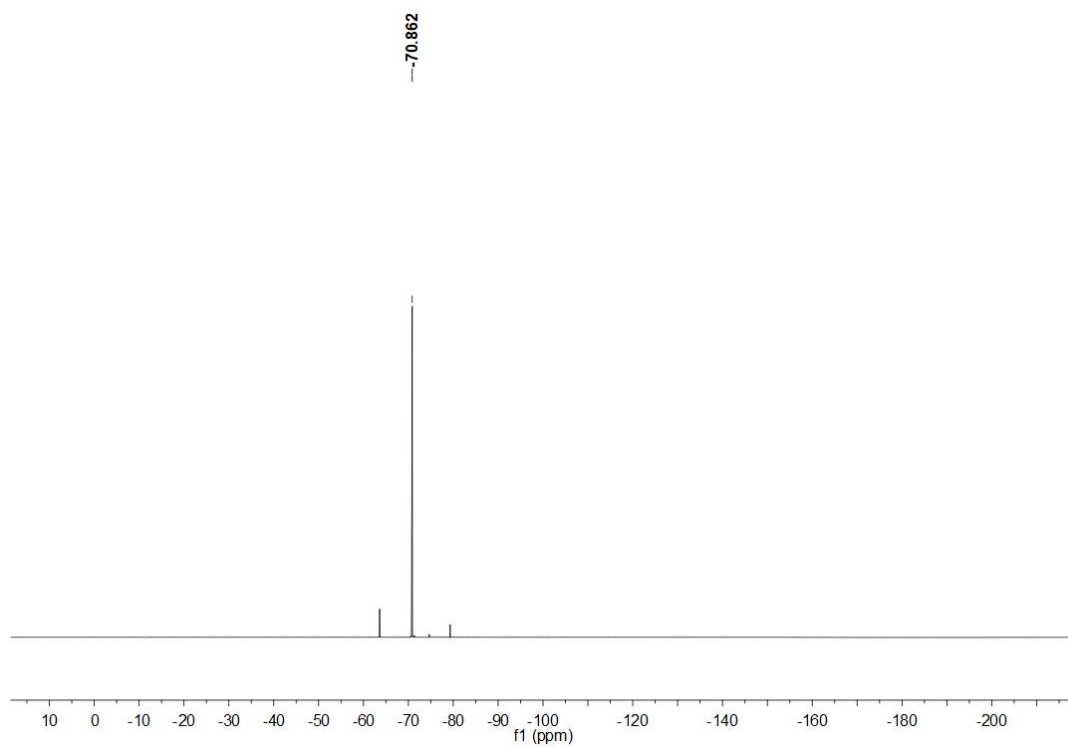
(S,S)-7c



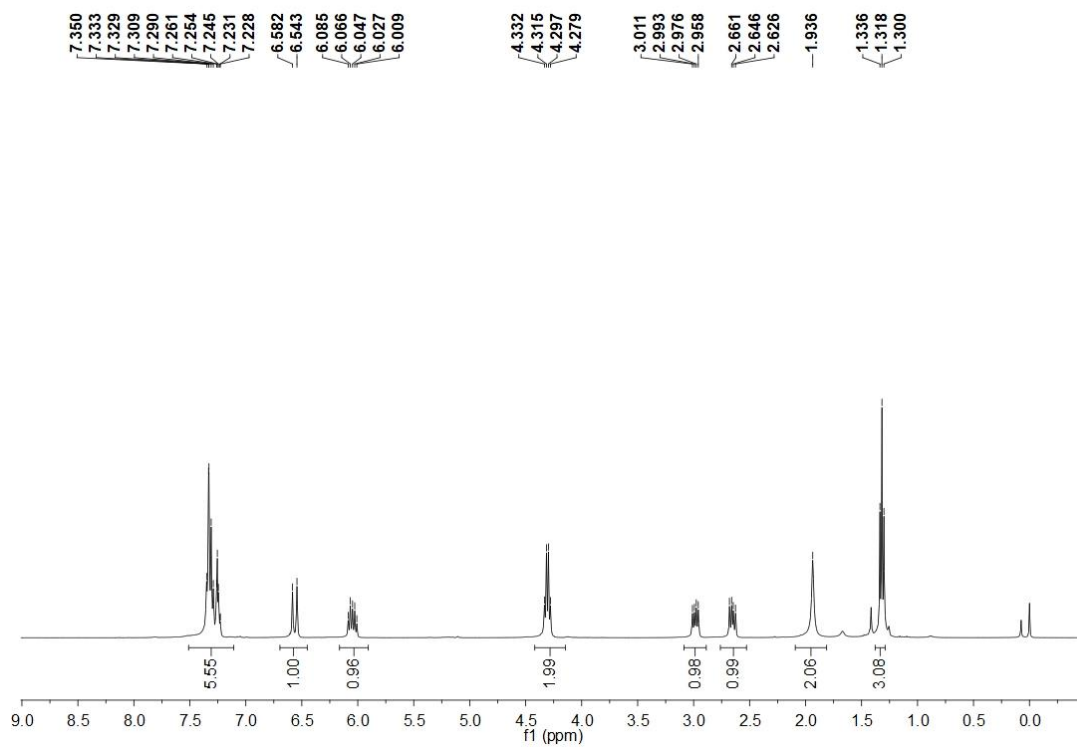
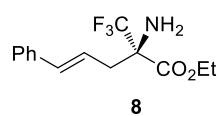
¹H NMR (400 MHz, CDCl₃)



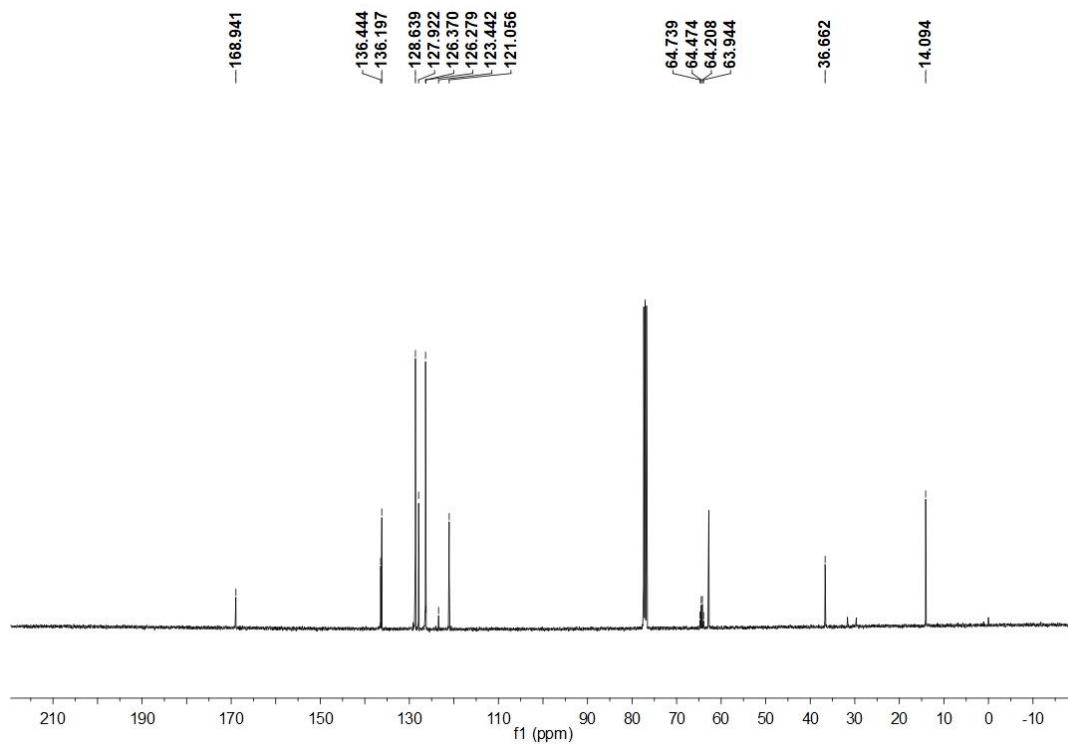
^{13}C NMR (101 MHz, CDCl_3)



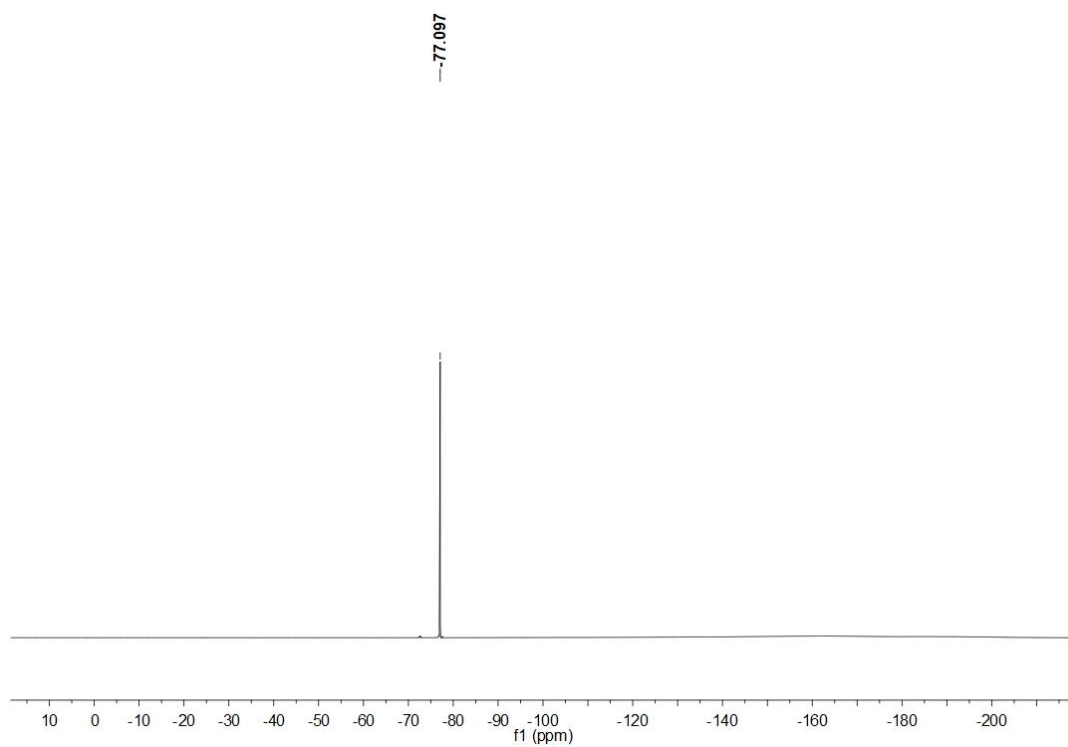
^{19}F NMR (376 MHz, CDCl_3)



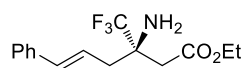
^1H NMR (400 MHz, CDCl_3)



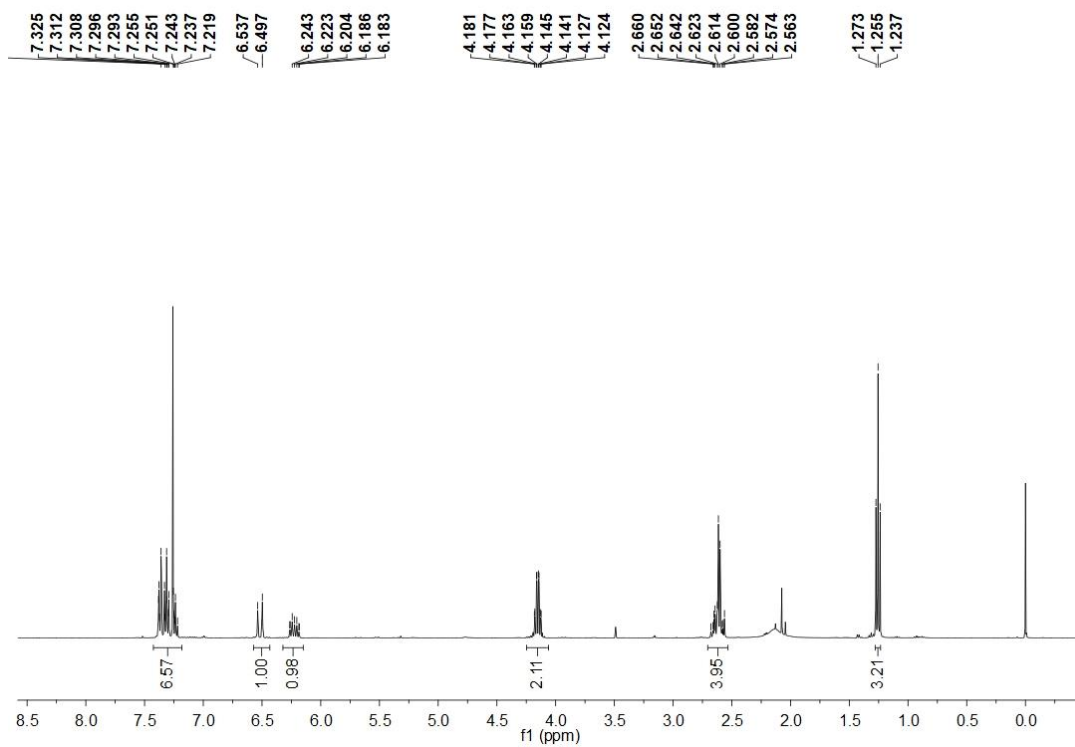
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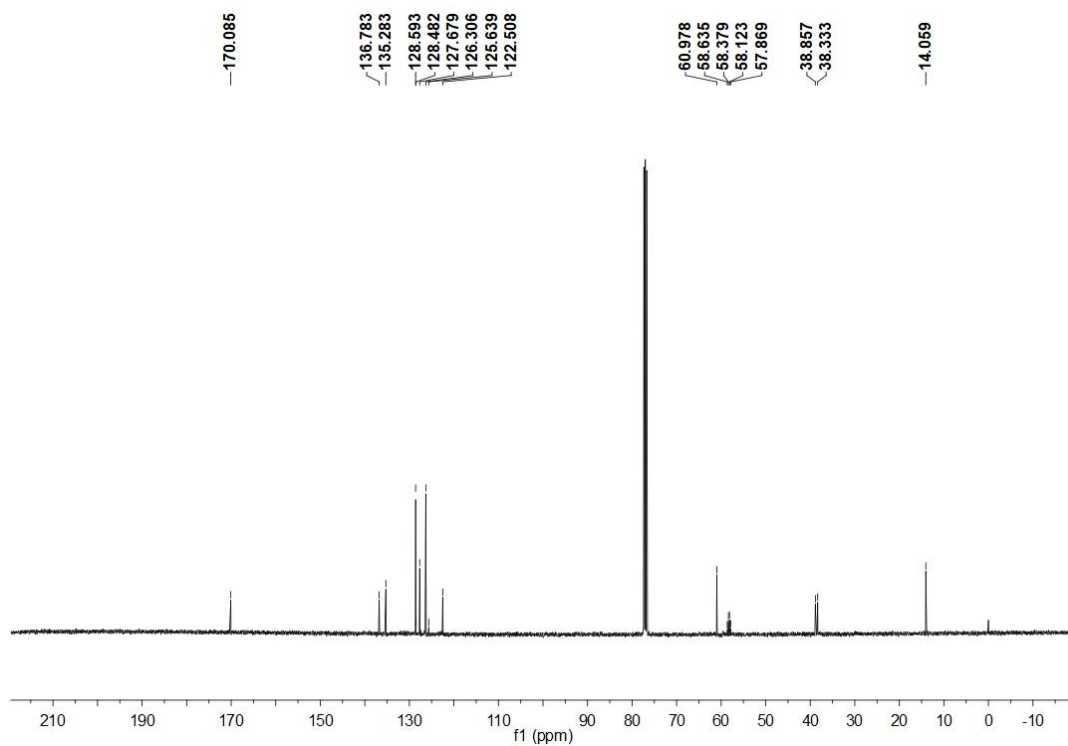
^{19}F NMR (376 MHz, CDCl_3)



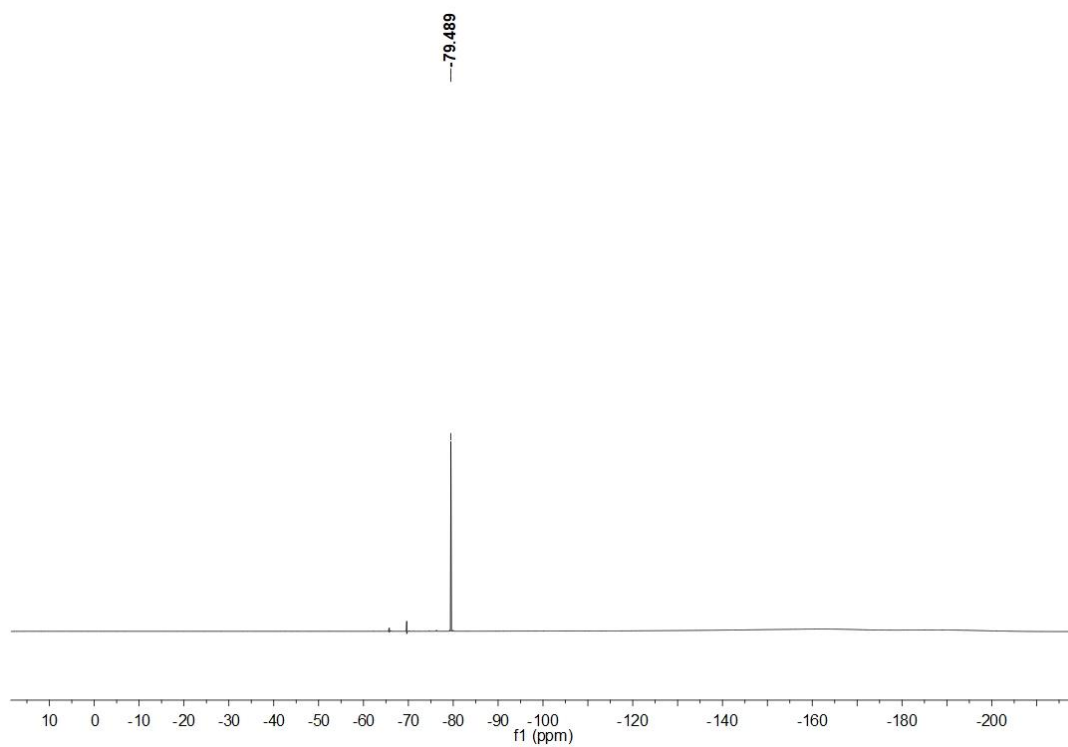
9



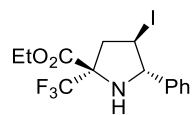
^1H NMR (400 MHz, CDCl_3)



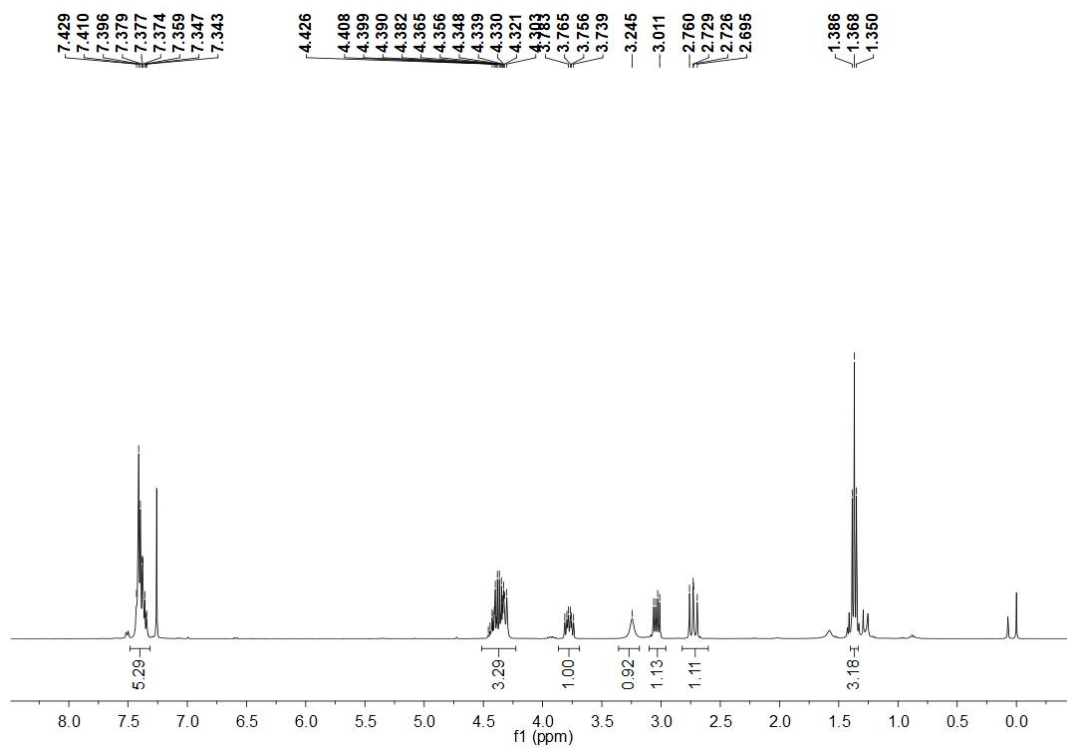
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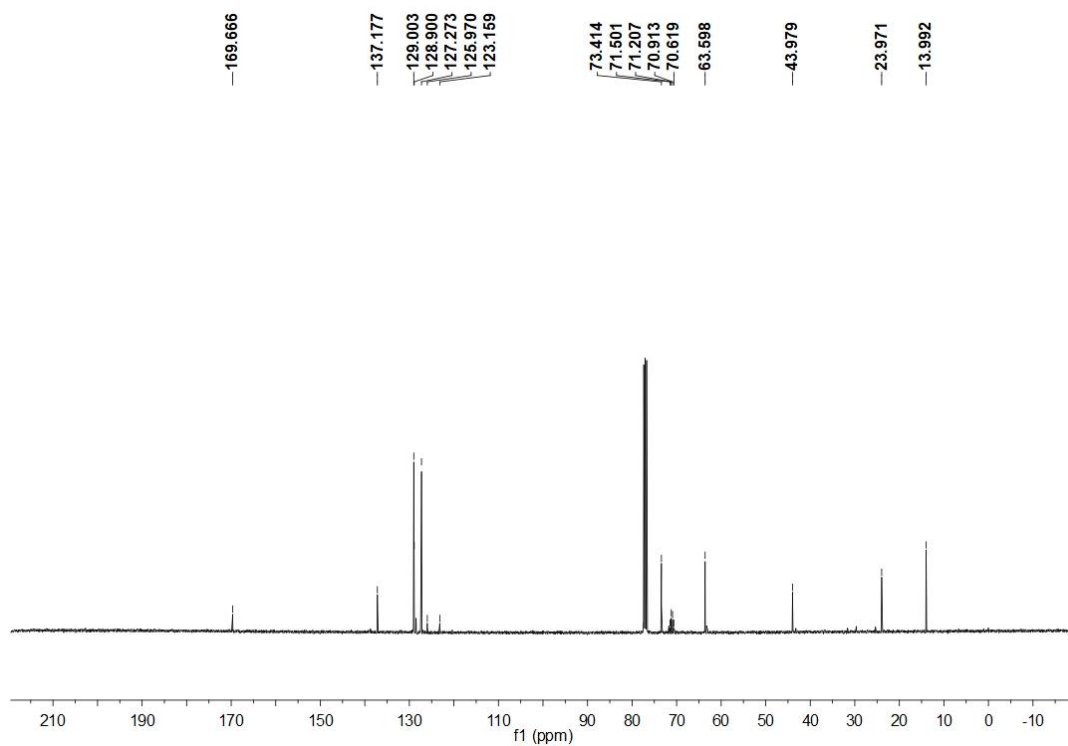
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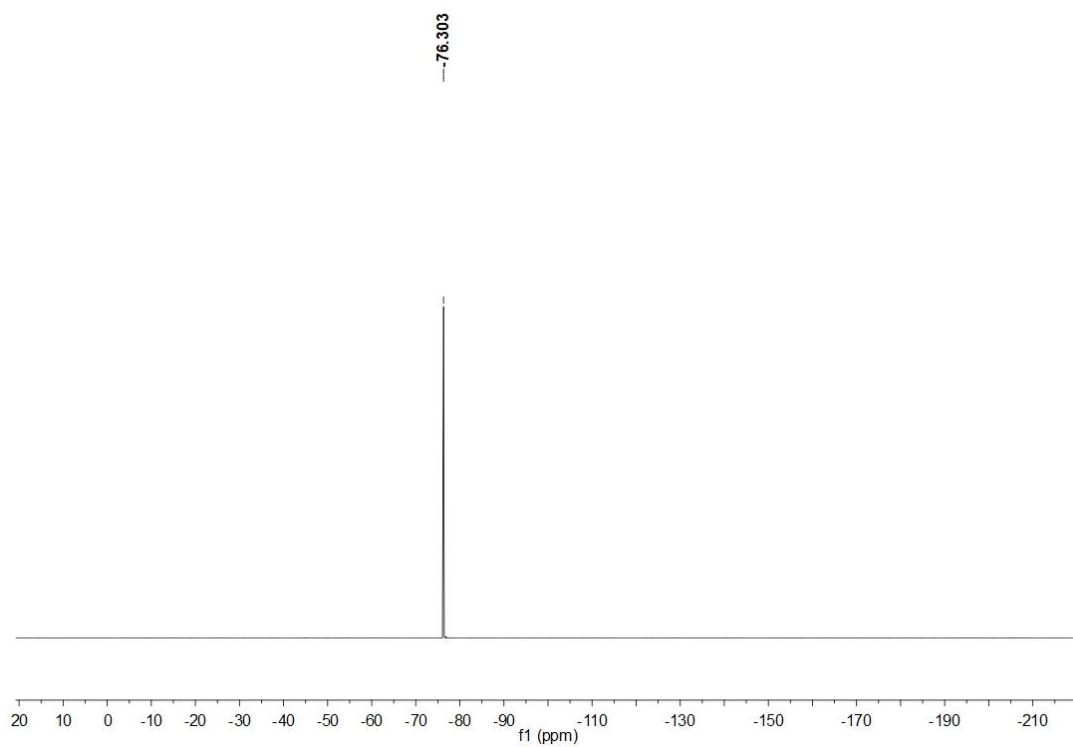
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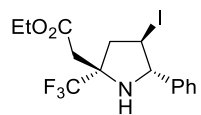
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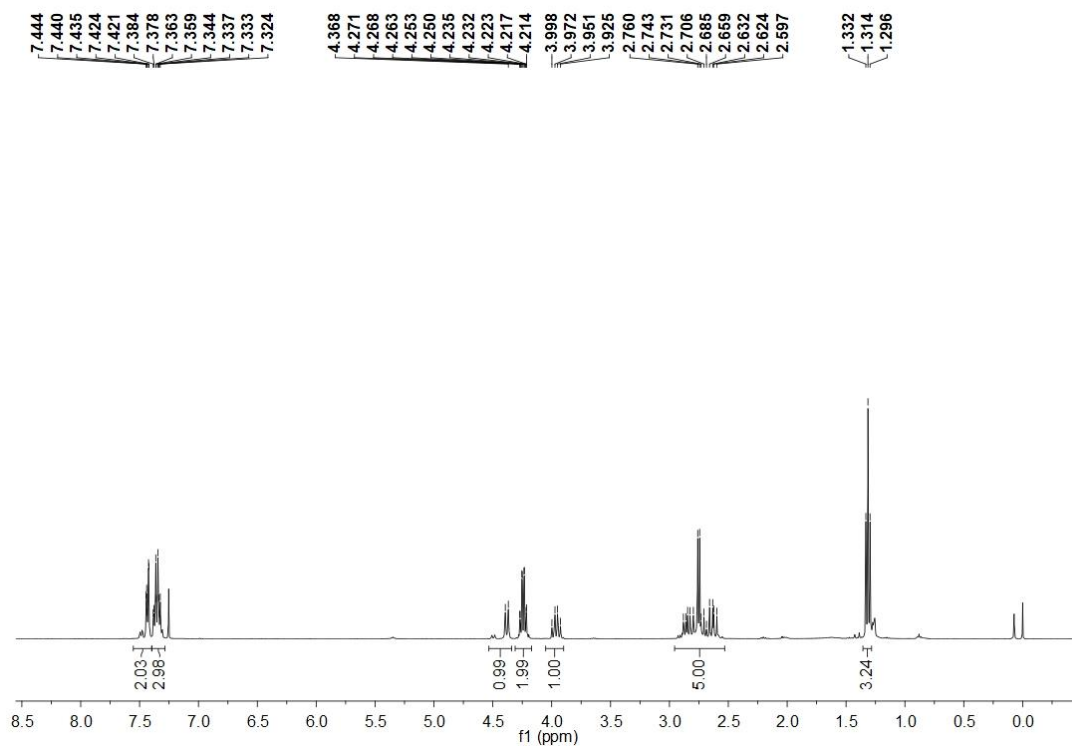
^{13}C NMR (101 MHz, CDCl_3)



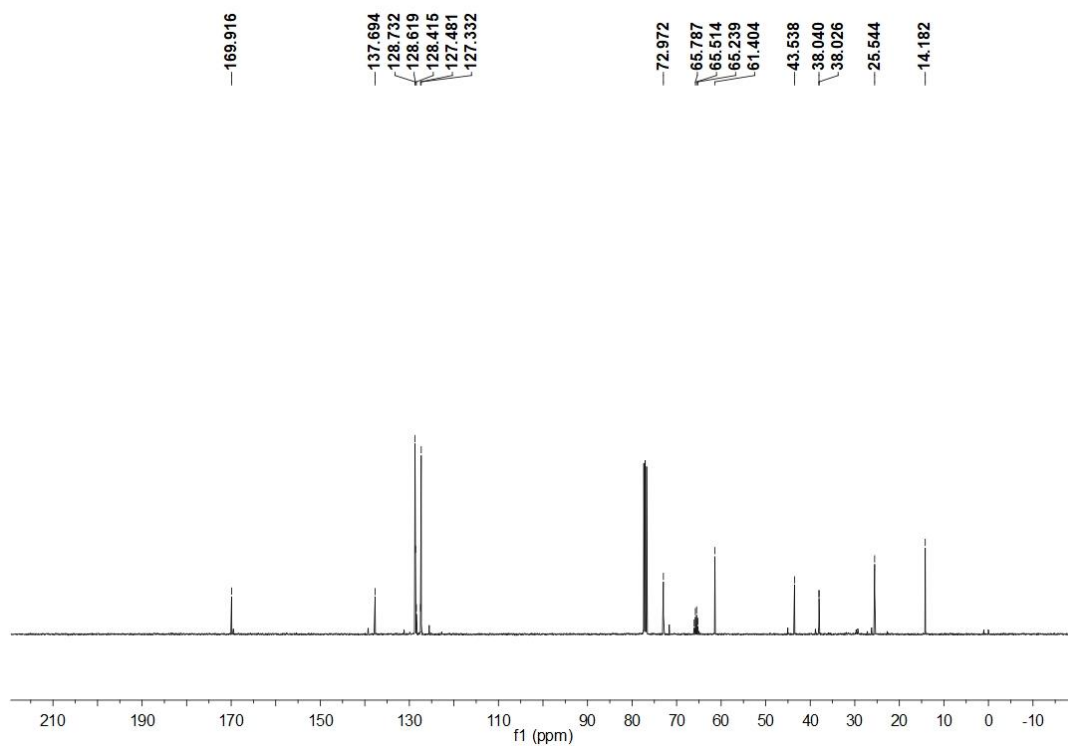
^{19}F NMR (376 MHz, CDCl_3)



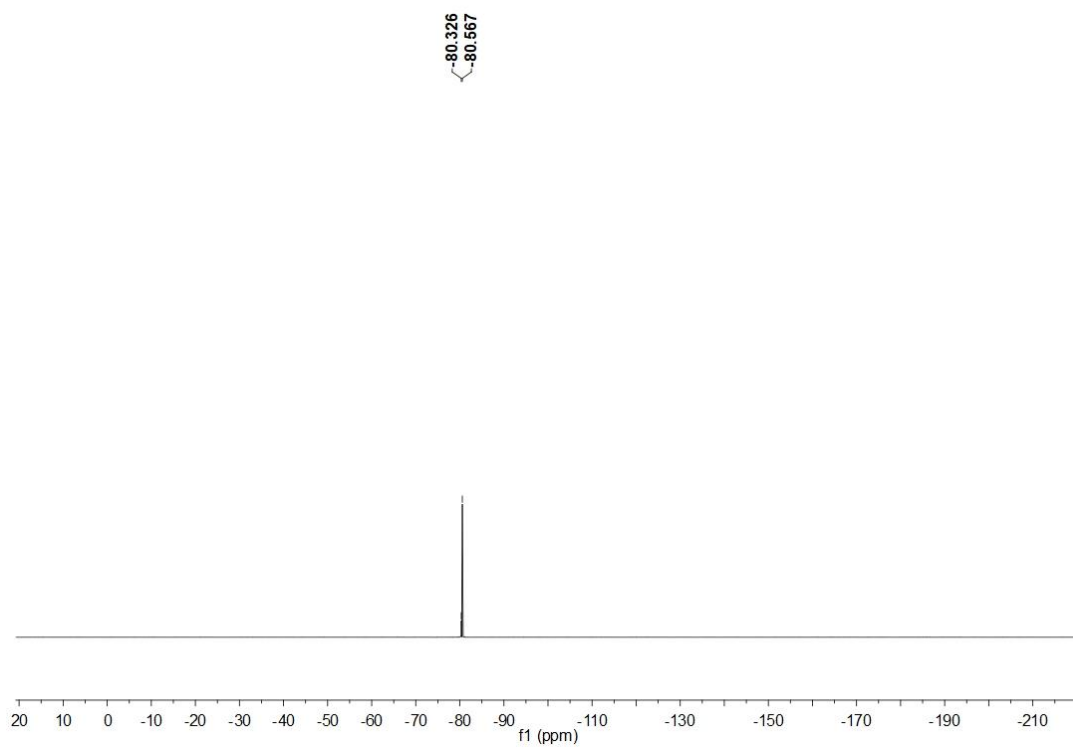
11



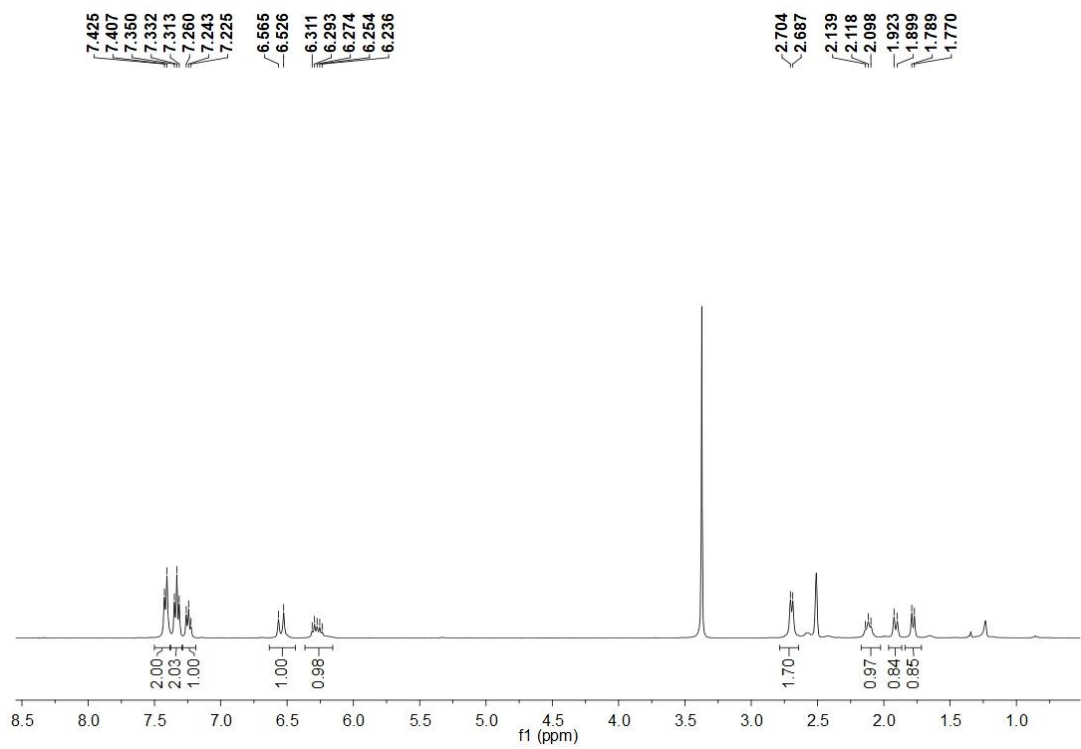
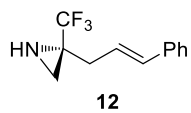
¹H NMR (400 MHz, CDCl₃)



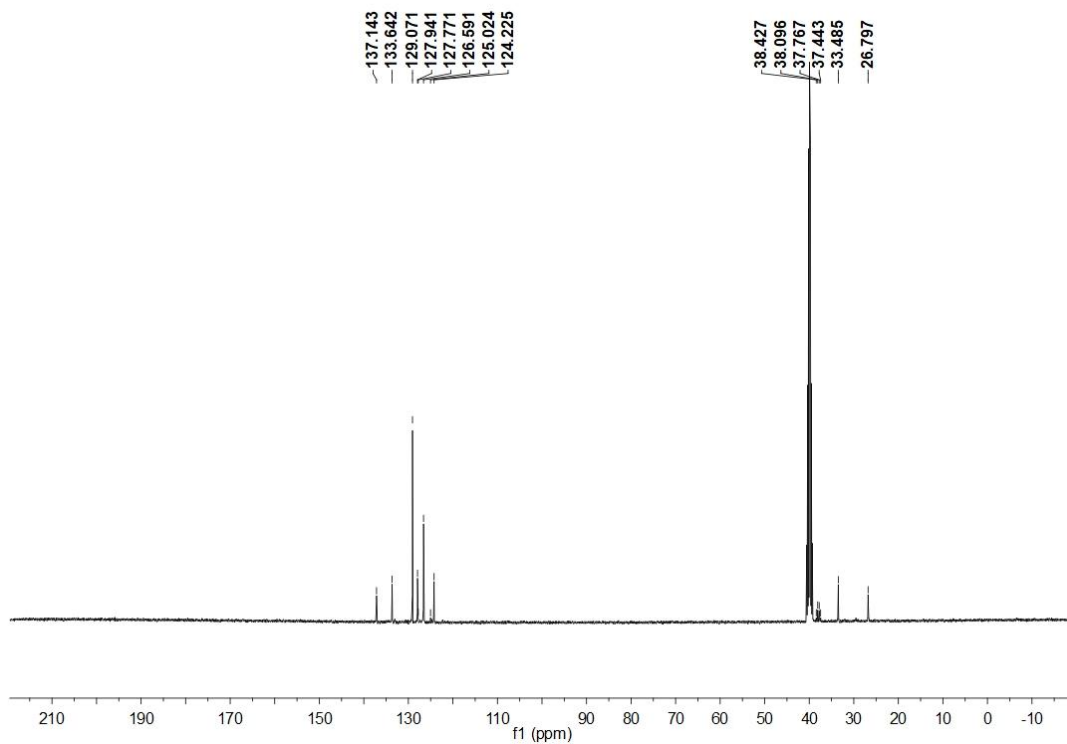
^{13}C NMR (101 MHz, CDCl_3)



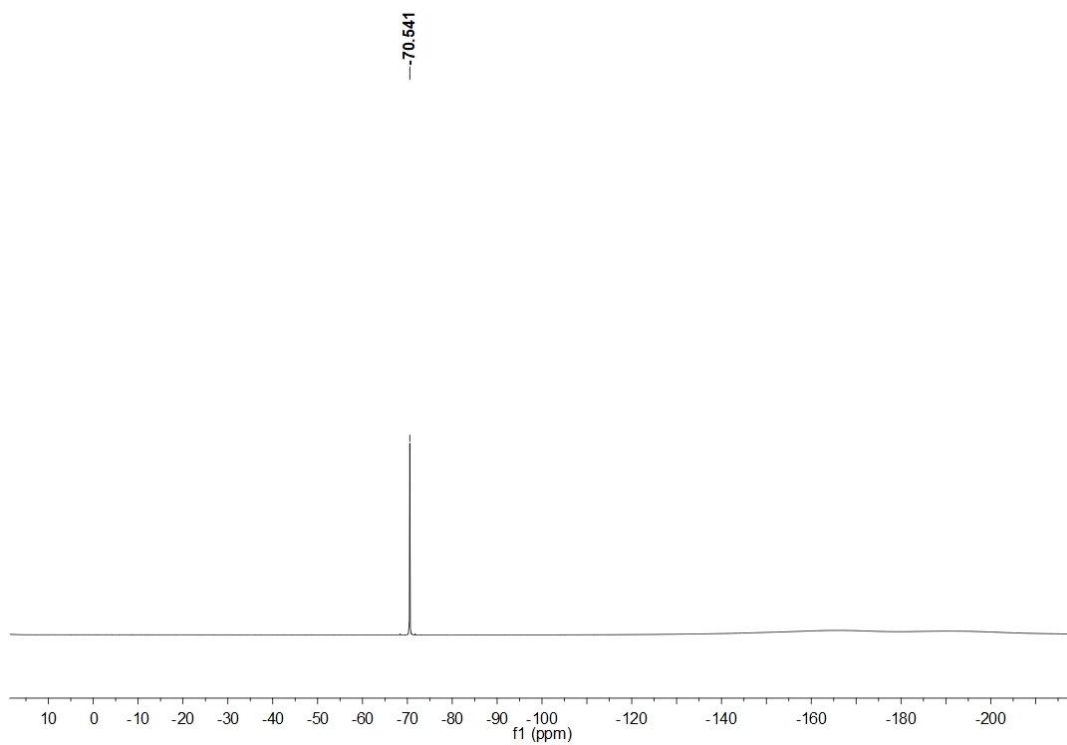
^{19}F NMR (376 MHz, CDCl_3)



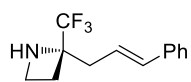
¹H NMR (400 MHz, DMSO)



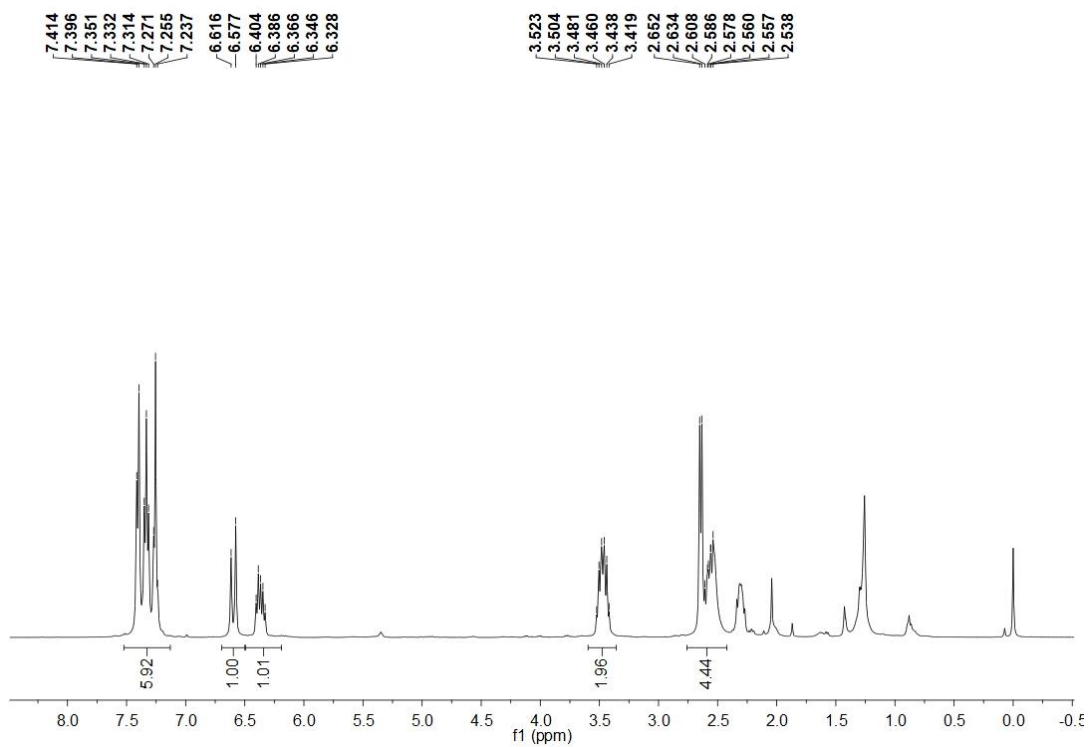
^{13}C NMR (101 MHz, DMSO)



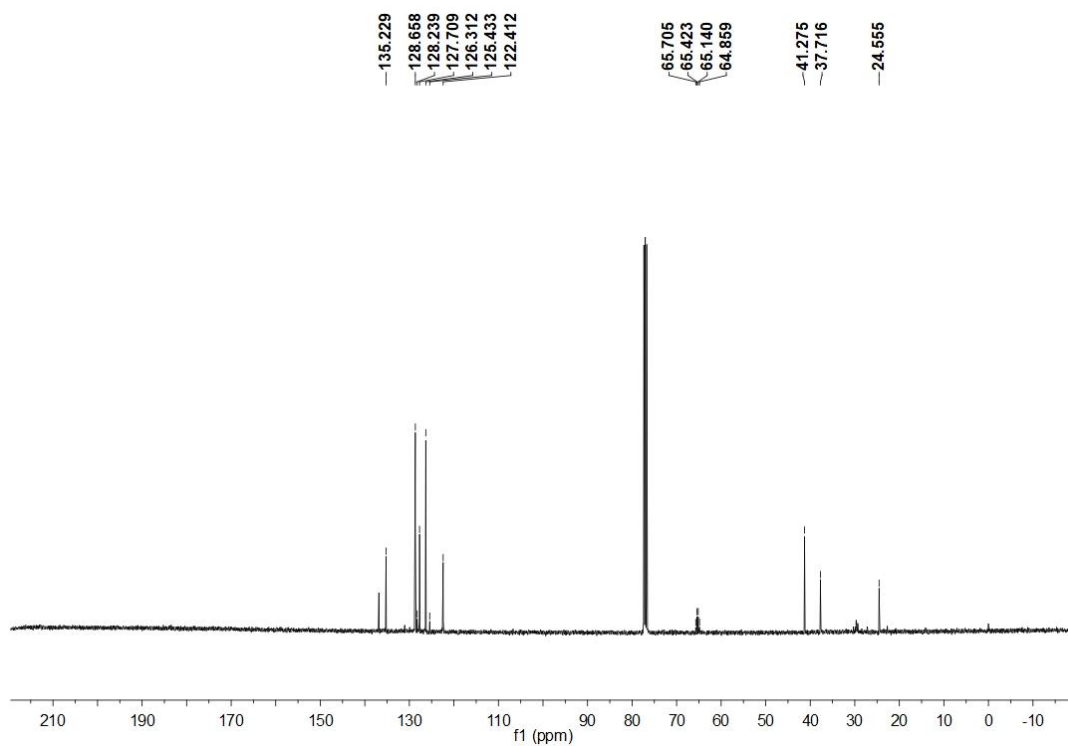
^{19}F NMR (376 MHz, CDCl_3)



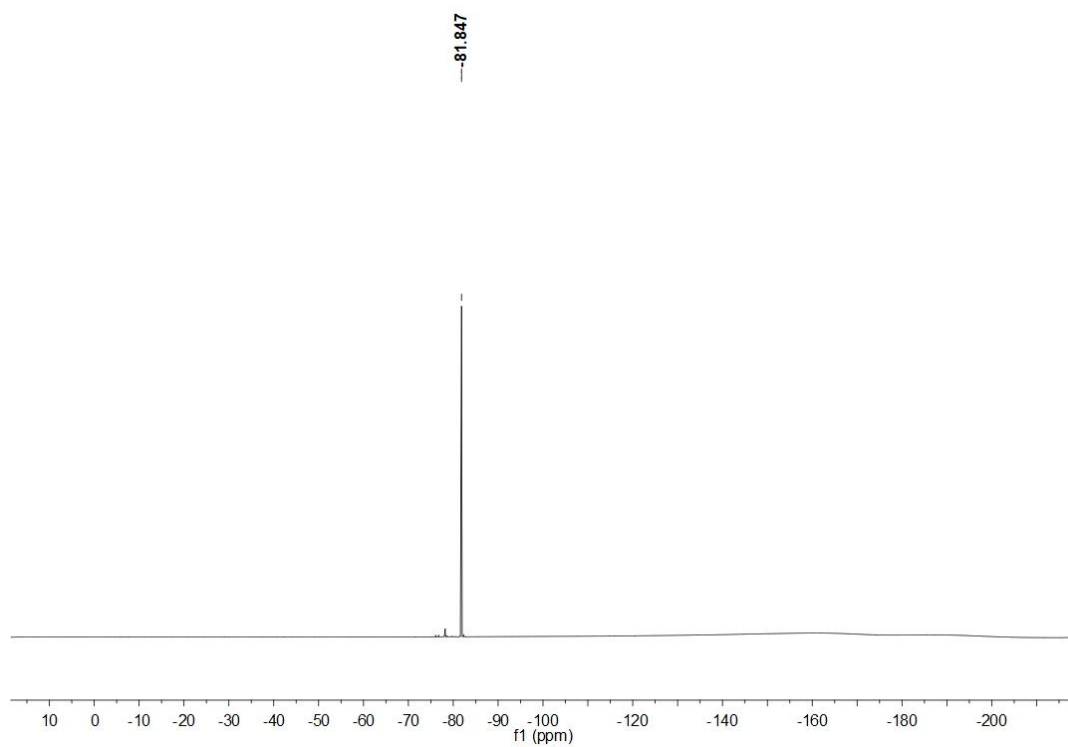
13



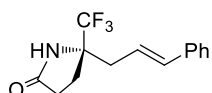
^1H NMR (400 MHz, CDCl_3)



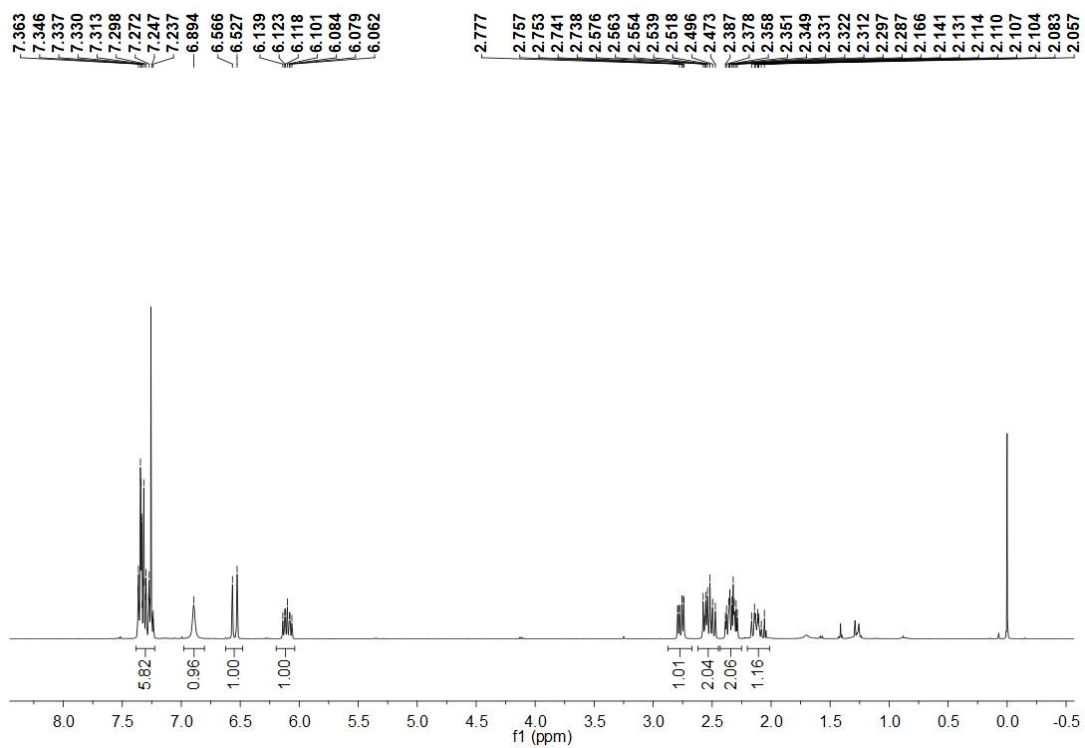
^{13}C NMR (101 MHz, CDCl_3)



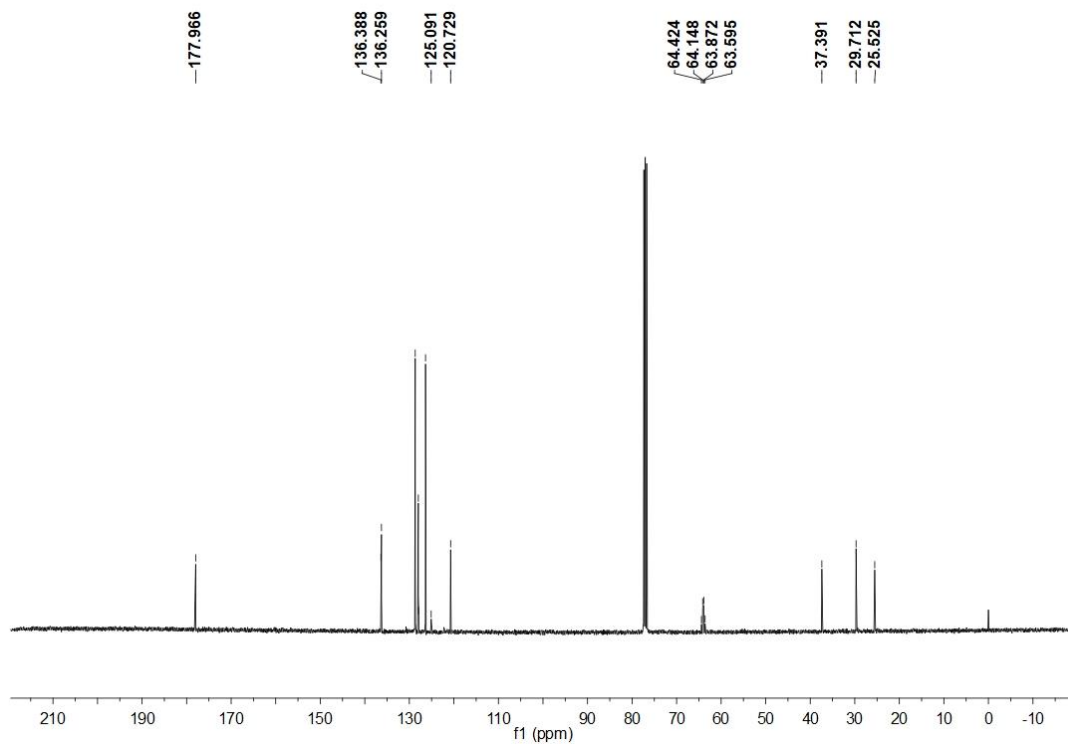
^{19}F NMR (376 MHz, CDCl_3)



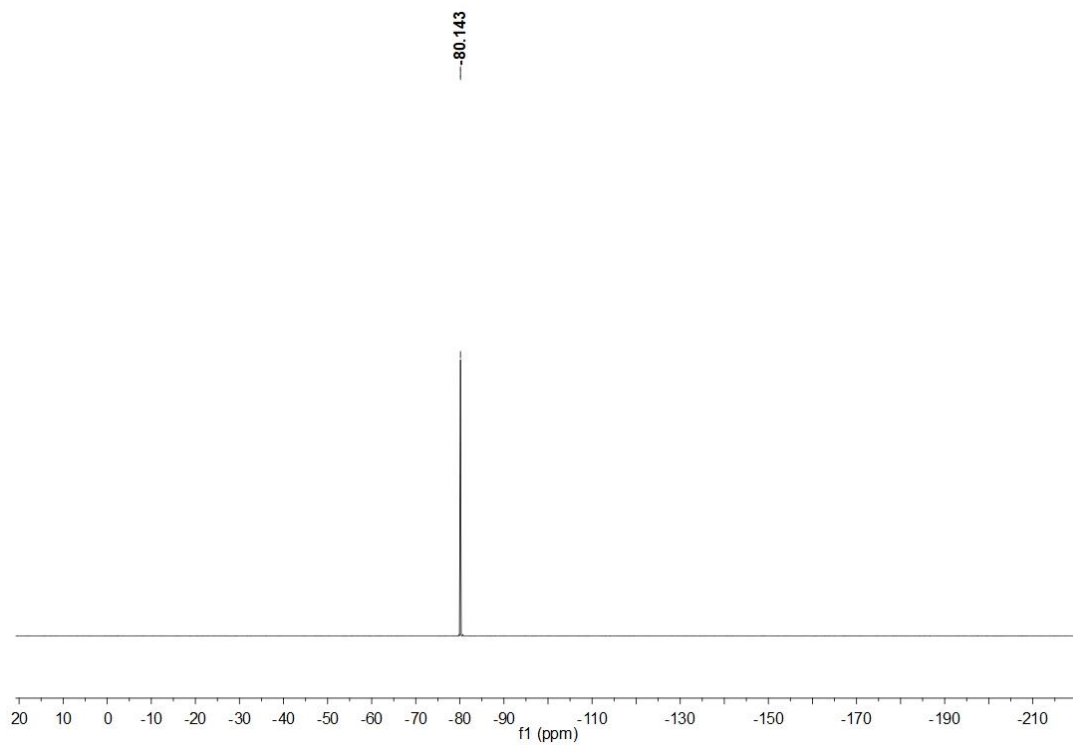
14



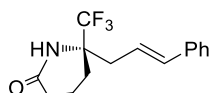
^1H NMR (400 MHz, CDCl_3)



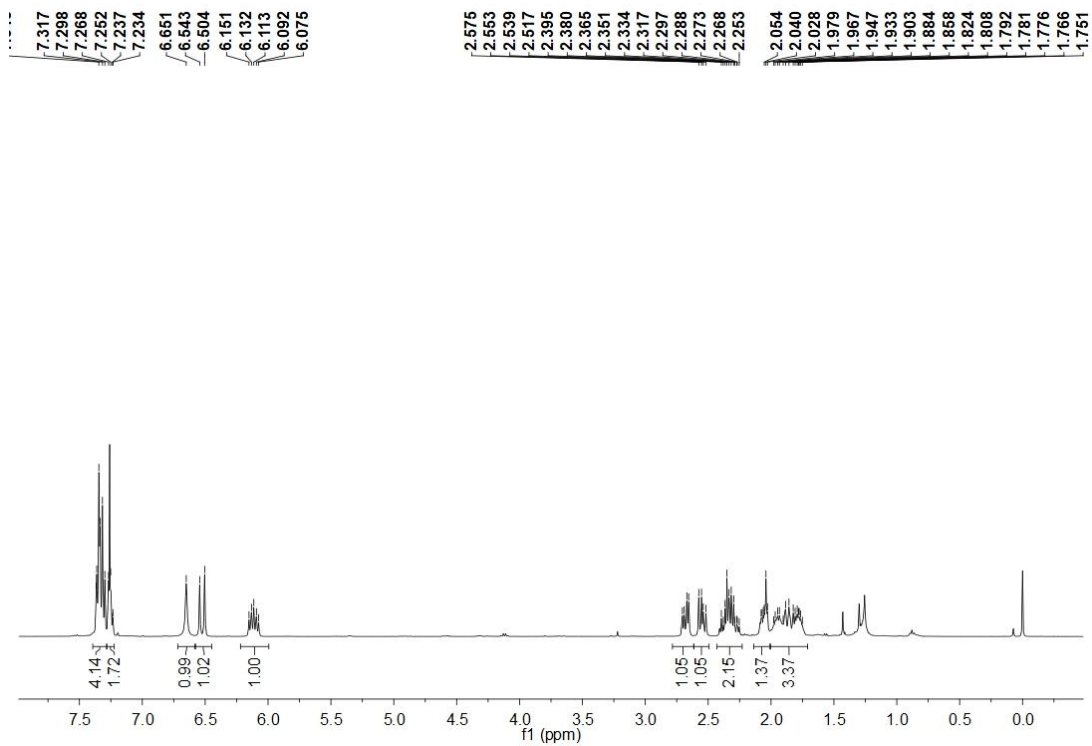
^{13}C NMR (101 MHz, CDCl_3)



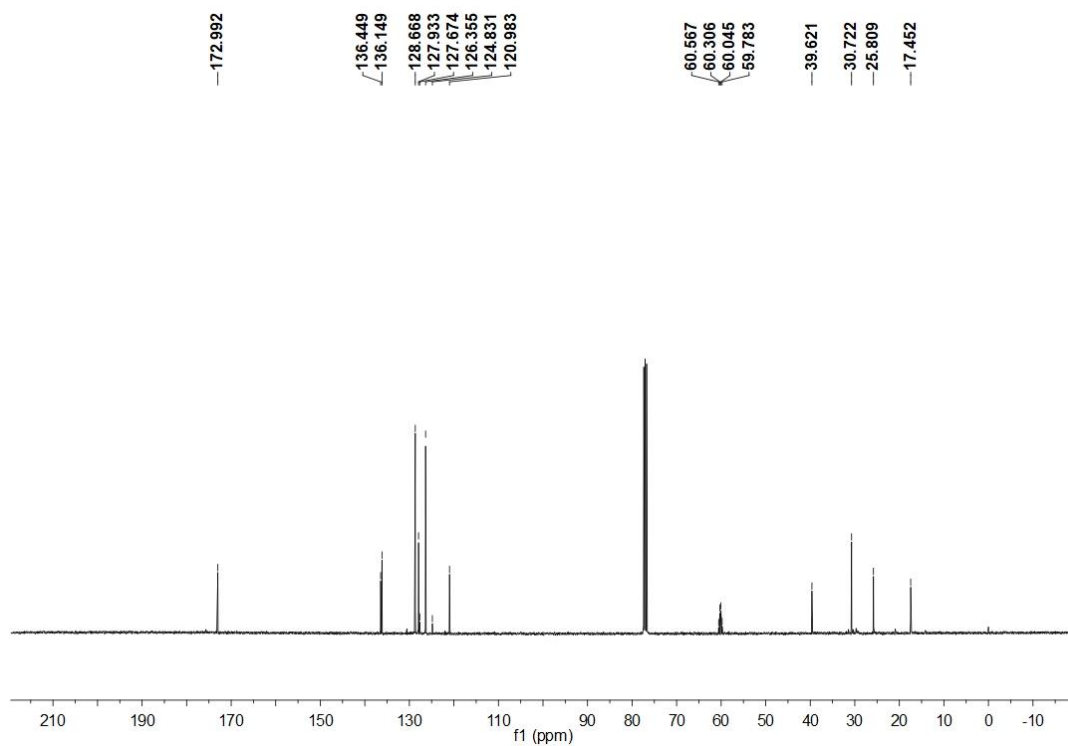
^{19}F NMR (376 MHz, CDCl_3)



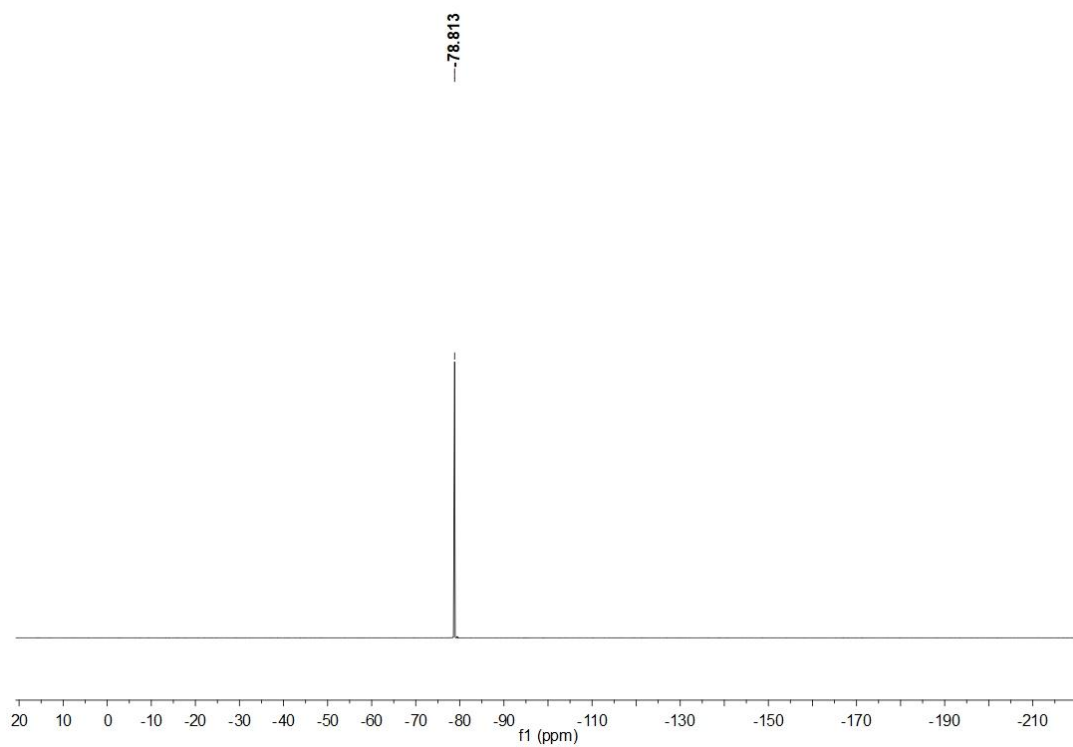
15



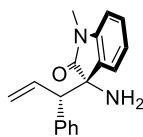
¹H NMR (400 MHz, CDCl₃)



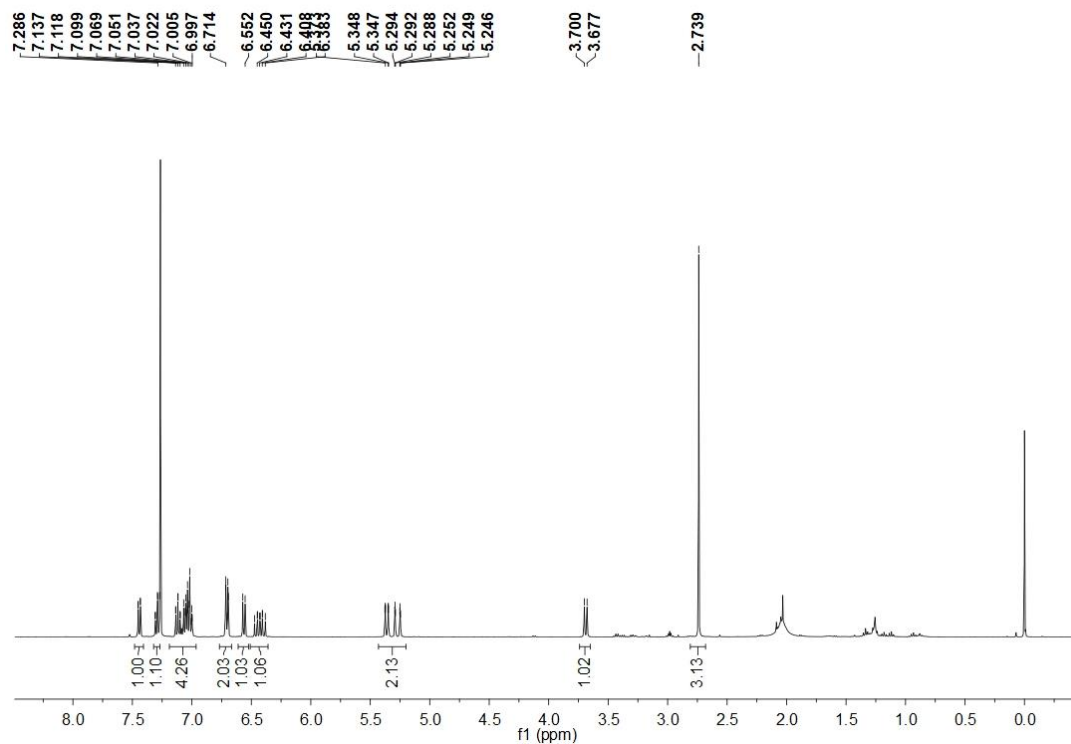
^{13}C NMR (101 MHz, CDCl_3)



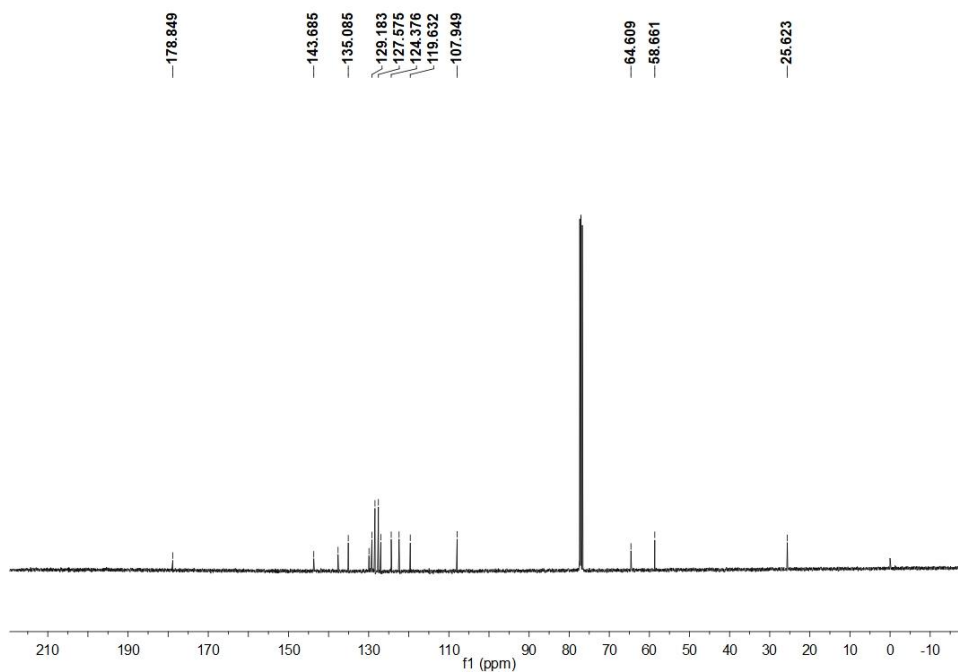
^{19}F NMR (376 MHz, CDCl_3)



16

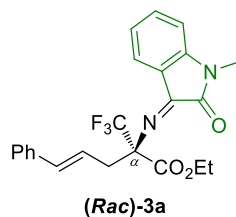


¹H NMR (400 MHz, CDCl₃)



¹³C NMR (101 MHz, CDCl₃)

8. HPLC spectra.

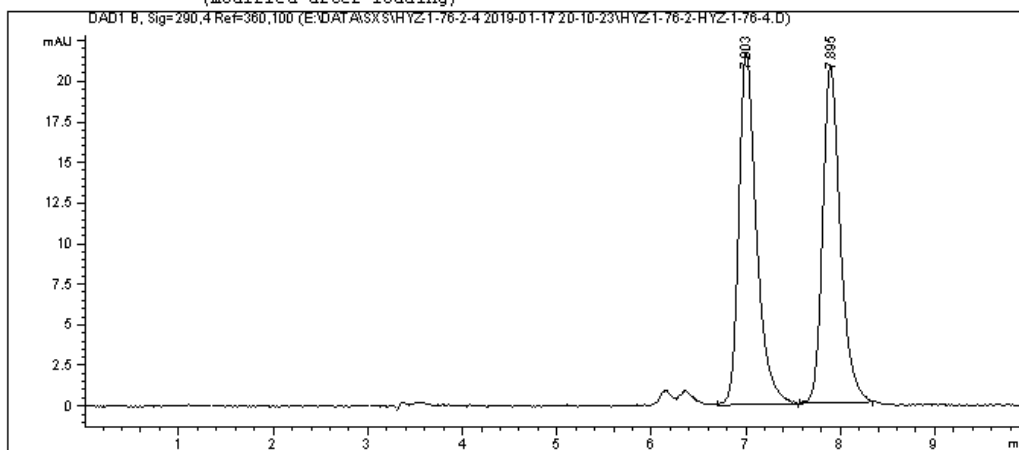


Data File E:\DATA\SXS\HYZ-1-76-2-4 2019-01-17 20-10-23\HYZ-1-76-2-HYZ-1-76-4.D
 Sample Name: SXS-7-100-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   61
Injection Date  : 1/17/2019 8:11:45 PM       Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\HYZ-1-76-2-4 2019-01-17 20-10-23\ID-95-5-2UL-10MIN.M
Last changed    : 1/17/2019 8:10:23 PM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-1-76-2-4 2019-01-17 20-10-23\ID-95-5-2UL-10MIN.M (Sequence
Method)
Last changed    : 6/10/2019 11:13:48 AM by SYSTEM
                (modified after loading)
  
```



Area Percent Report

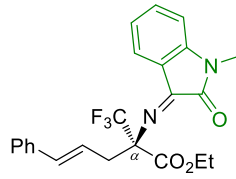
```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=290,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.003	BB	0.1888	282.12271	21.68419	51.1552
2	7.895	BB	0.1928	269.38104	20.71021	48.8448
Totals :				551.50375	42.39440	

*** End of Report ***



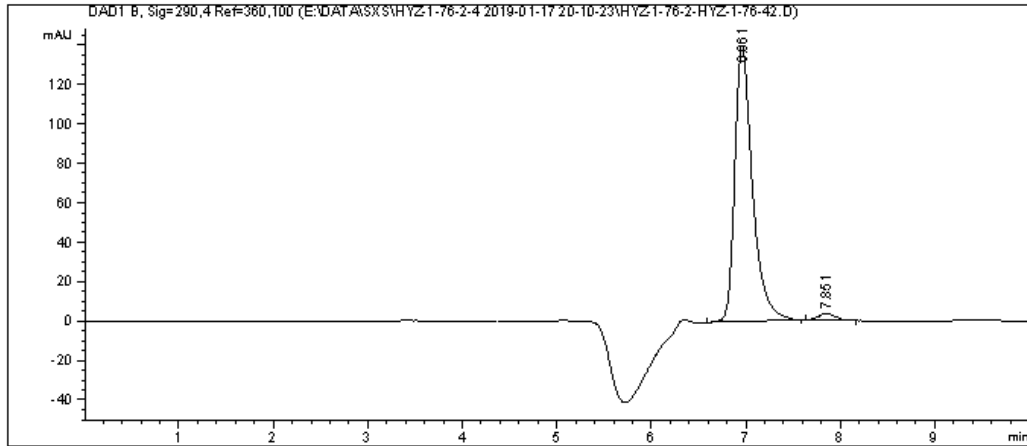
(R)-3a

Data File E:\DATA\SXS\HYZ-1-76-2-4 2019-01-17 20-10-23\HYZ-1-76-2-HYZ-1-76-42.D
 Sample Name: HYZ-1-76-4

```

=====
Acq. Operator   : SYSTEM                               Seq. Line :    3
Acq. Instrument : 1260                                 Location  :   63
Injection Date  : 1/17/2019 8:34:37 PM                 Inj       :    1
                                                    Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\HYZ-1-76-2-4 2019-01-17 20-10-23\ID-95-5-2UL-10MIN.M
Last changed    : 1/17/2019 8:10:23 PM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-1-76-2-4 2019-01-17 20-10-23\ID-95-5-2UL-10MIN.M (Sequence
Method)
Last changed    : 6/10/2019 11:13:48 AM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



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 Area Percent Report
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```

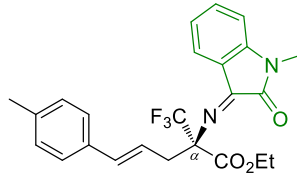
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=290,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.961	BB	0.1946	1815.27893	139.69020	97.8370
2	7.851	BB	0.1615	40.13247	3.28609	2.1630

Totals : 1855.41140 142.97629

=====
 *** End of Report ***



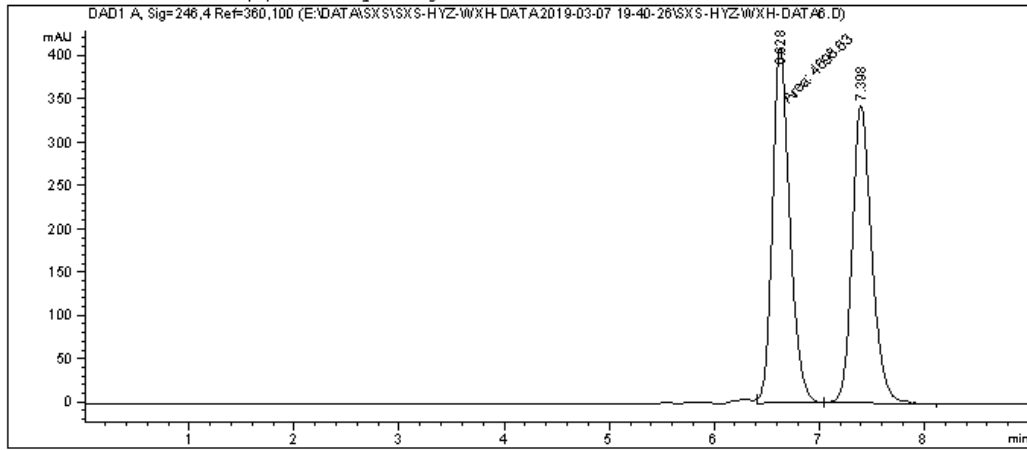
(Rac)-3b

Data File E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\SXS-HYZ-WXH-DATA6.D
 Sample Name: WXH-1-36-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    7
Acq. Instrument : 1260                       Location  :   98
Injection Date  : 3/7/2019 8:55:59 PM        Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method    : E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246NM.M
Last changed   : 3/7/2019 9:05:00 PM by SYSTEM
                (modified after loading)
Analysis Method: E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246NM.M
                (Sequence Method)
Last changed   : 6/10/2019 11:17:16 AM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

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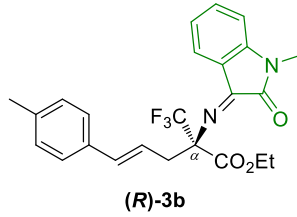
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.628	FM	0.1910	4698.62793	410.04541	51.4246
2	7.398	BB	0.1946	4438.29053	343.76877	48.5754

Totals : 9136.91846 753.81418

*** End of Report ***

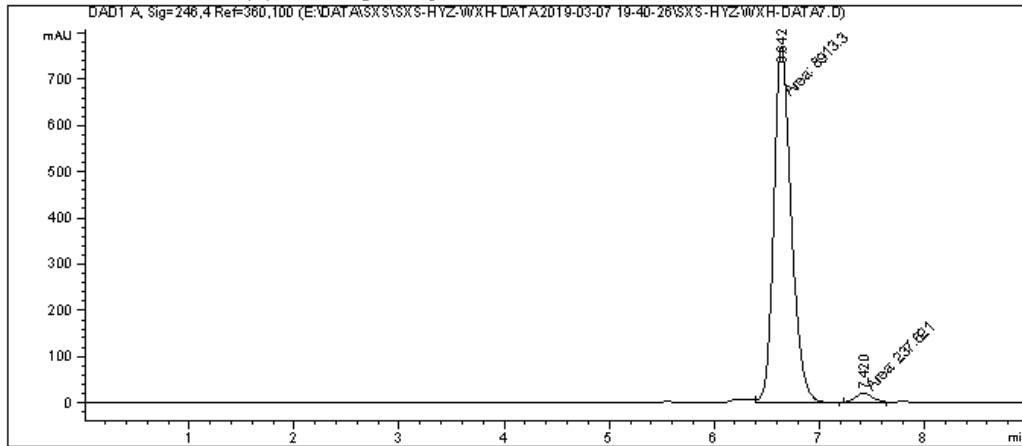


Data File E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\SXS-HYZ-WXH-DATA7.D
 Sample Name: WXH-1-37-OPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    8
Acq. Instrument : 1260                      Location  :   99
Injection Date  : 3/7/2019 9:06:29 PM       Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 3/7/2019 9:05:00 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246NM.M
                (Sequence Method)
Last changed    : 6/10/2019 11:17:16 AM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



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 Area Percent Report
 =====

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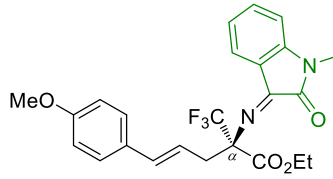
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.642	FM	0.1928	8913.29688	770.32428	97.4033
2	7.420	MM	0.2006	237.62108	19.74346	2.5967

Totals : 9150.91795 790.06774

=====
 *** End of Report ***



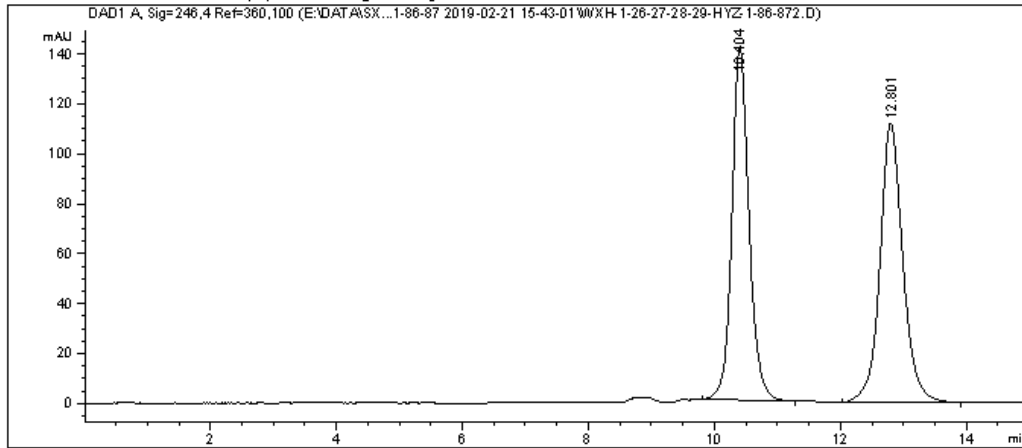
(Rac)-3c

Data File E:\DATA\SXS\...29-HYZ-1-86-87 2019-02-21 15-43-01\WXH-1-26-27-28-29-HYZ-1-86-872.D
 Sample Name: WXH-1-28-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                        Location  :   94
Injection Date  : 2/21/2019 4:07:22 PM       Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-2UL-
                  10MIN-246NM.M
Last changed    : 2/21/2019 4:14:59 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-2UL-
                  10MIN-246NM.M (Sequence Method)
Last changed    : 6/10/2019 3:03:14 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

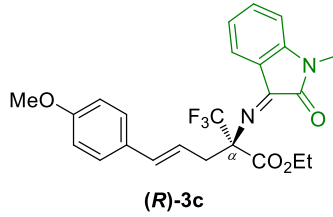
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.404	BB	0.2871	2664.42847	141.23149	48.5906
2	12.801	BB	0.3722	2818.99194	111.78217	51.4094

Totals : 5483.42041 253.01366

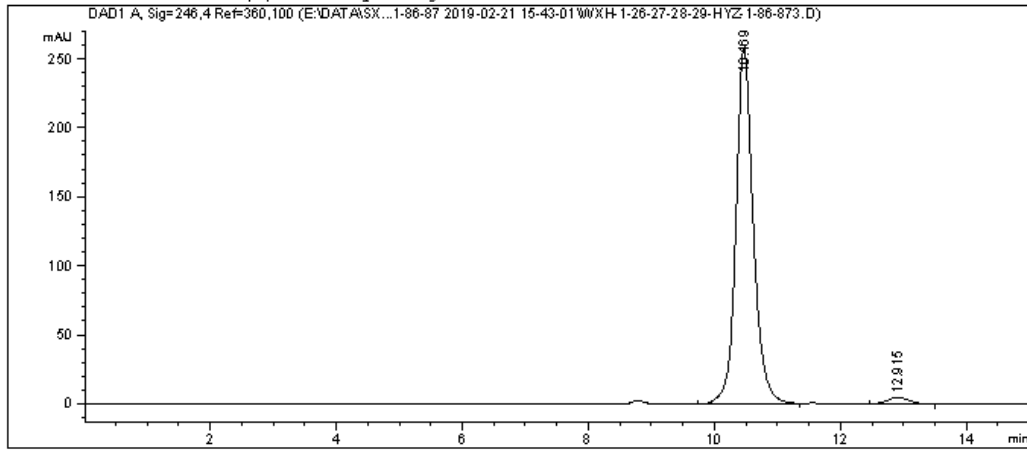
*** End of Report ***



Data File E:\DATA\SXS...29-HYZ-1-86-87 2019-02-21 15-43-01\WXH-1-26-27-28-29-HYZ-1-86-873.D
 Sample Name: WXH-1-29

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                        Location  :   95
Injection Date  : 2/21/2019 4:23:47 PM       Inj       :    1
                                           Inj Volume: 2.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-2UL-
                  10MIN-246NM.M
Last changed    : 2/21/2019 4:14:59 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-2UL-
                  10MIN-246NM.M (Sequence Method)
Last changed    : 6/10/2019 3:03:14 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



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 Area Percent Report
 =====

```

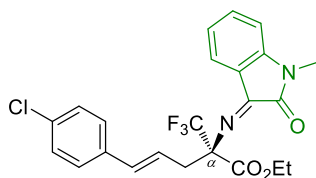
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.469	BB	0.2879	4948.39697	257.88126	97.8166
2	12.915	BB	0.2873	110.45599	4.64660	2.1834

Totals : 5058.85296 262.52786

=====
 *** End of Report ***

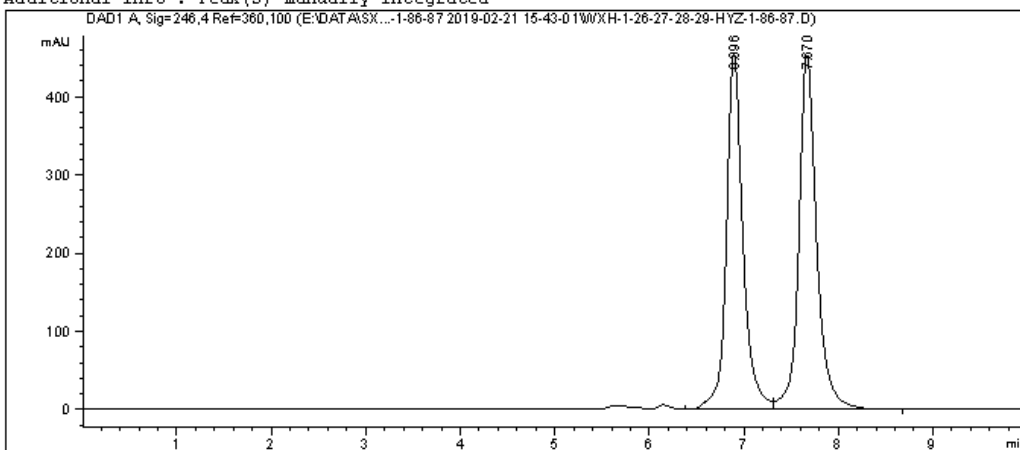


(Rac)-3d

Data File E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\WXH-1-26-27-28-29-HYZ-1-86-87.D
 Sample Name: WXH-1-26-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   92
Injection Date  : 2/21/2019 3:44:31 PM       Inj       :    1
                                           Inj Volume: 2.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-2UL-
                  10MIN-246NM.M
Last changed    : 2/21/2019 3:43:01 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-2UL-
                  10MIN-246NM.M (Sequence Method)
Last changed    : 6/10/2019 3:10:30 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

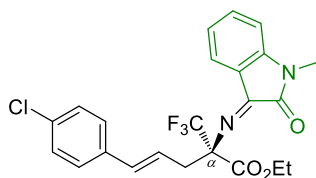
Sorted By      : Signal
Multiplier     : 1.0000
Dilution      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.896	BV	0.1804	5526.26953	455.90915	48.2099
2	7.670	VB	0.1939	5936.67139	453.07962	51.7901

Totals : 1.14629e4 908.98877

*** End of Report ***

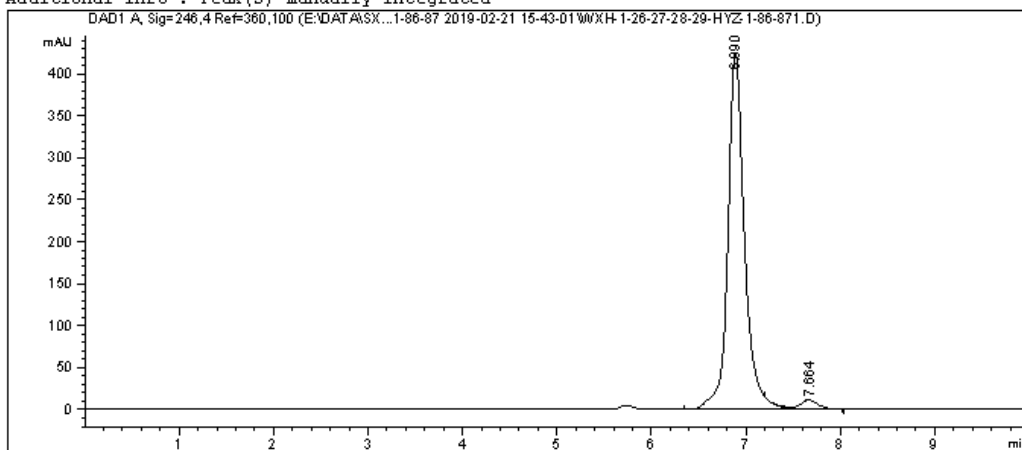


(R)-3d

Data File E:\DATA\SXS...29-HYZ-1-86-87 2019-02-21 15-43-01\WXH-1-26-27-28-29-HYZ-1-86-871.D
 Sample Name: WXH-1-27

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   93
Injection Date  : 2/21/2019 3:56:01 PM      Inj       :    1
                                           Inj Volume: 2.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-2UL-
                  10MIN-246NM.M
Last changed    : 2/21/2019 3:43:01 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-2UL-
                  10MIN-246NM.M (Sequence Method)
Last changed    : 6/10/2019 3:10:30 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

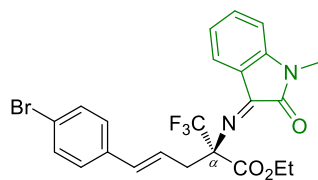
Sorted By      : Signal
Multiplier     : 1.0000
Dilution      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.890	BV R	0.1811	5175.88965	424.87024	97.2750
2	7.664	VB E	0.1933	144.99506	10.75722	2.7250

Totals : 5320.88470 435.62746

*** End of Report ***

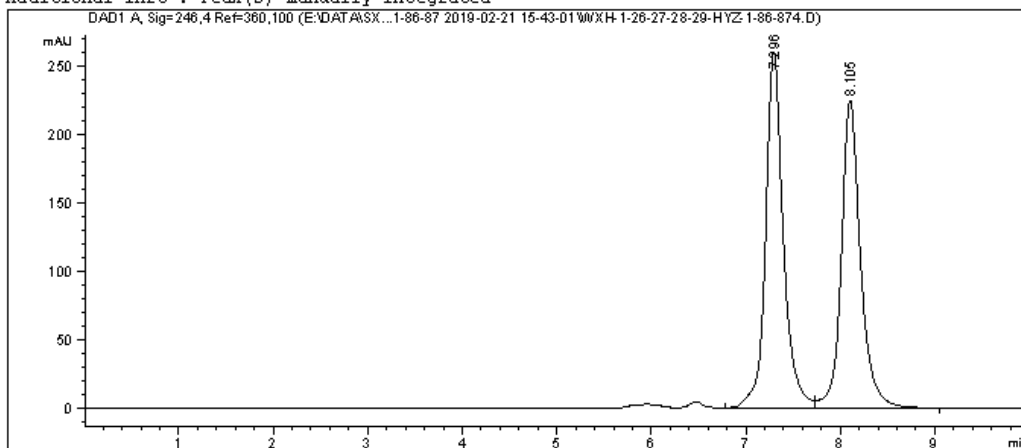


(Rac)-3e

Data File E:\DATA\SXS...29-HYZ-1-86-87 2019-02-21 15-43-01\WXH-1-26-27-28-29-HYZ-1-86-874.D
 Sample Name: HYZ-1-87-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    5
Acq. Instrument : 1260                       Location  :   96
Injection Date  : 2/21/2019 4:40:14 PM      Inj       :    1
                                           Inj Volume: 2.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-ZUL-
                  10MIN-246NM.M
Last changed    : 2/21/2019 4:48:25 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-ZUL-
                  10MIN-246NM.M (Sequence Method)
Last changed    : 6/10/2019 3:16:45 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

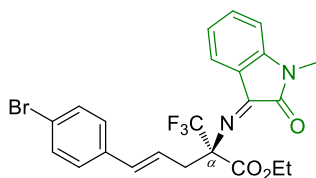
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.296	BV	0.1936	3399.89331	259.92700	51.6246
2	8.105	VB	0.2103	3185.90552	224.88237	48.3754

Totals : 6585.79883 484.80937

*** End of Report ***

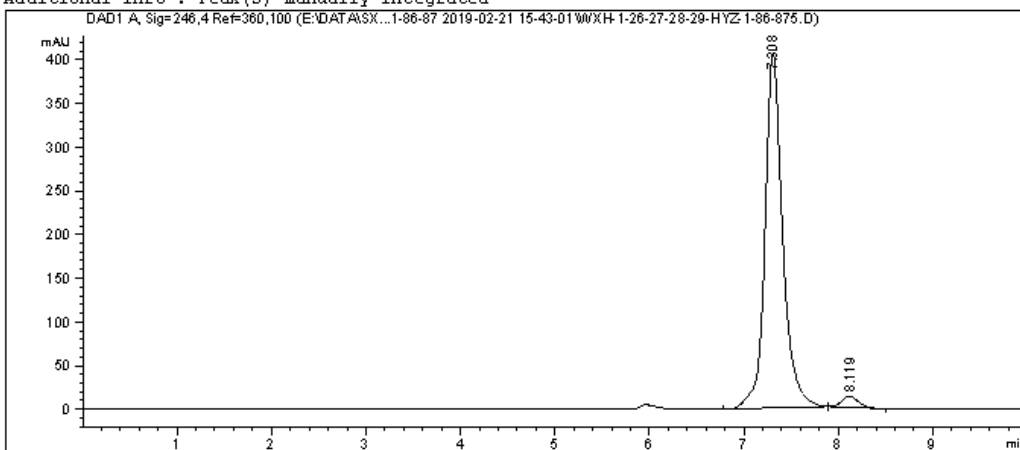


(R)-3e

Data File E:\DATA\SXS...29-HYZ-1-86-87 2019-02-21 15-43-01\WXH-1-26-27-28-29-HYZ-1-86-875.D
 Sample Name: HYZ-1-86

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    6
Acq. Instrument : 1260                       Location  :   97
Injection Date  : 2/21/2019 4:51:36 PM      Inj       :    1
                                           Inj Volume: 2.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-2UL-
                  10MIN-246NM.M
Last changed    : 2/21/2019 4:48:25 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-26-27-28-29-HYZ-1-86-87 2019-02-21 15-43-01\ID-95-5-2UL-
                  10MIN-246NM.M (Sequence Method)
Last changed    : 6/10/2019 3:16:45 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

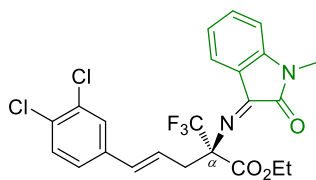
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.308	BB	0.1951	5296.31787	406.24579	97.2235
2	8.119	BB	0.1863	151.25160	12.39908	2.7765

Totals : 5447.56947 418.64487

*** End of Report ***

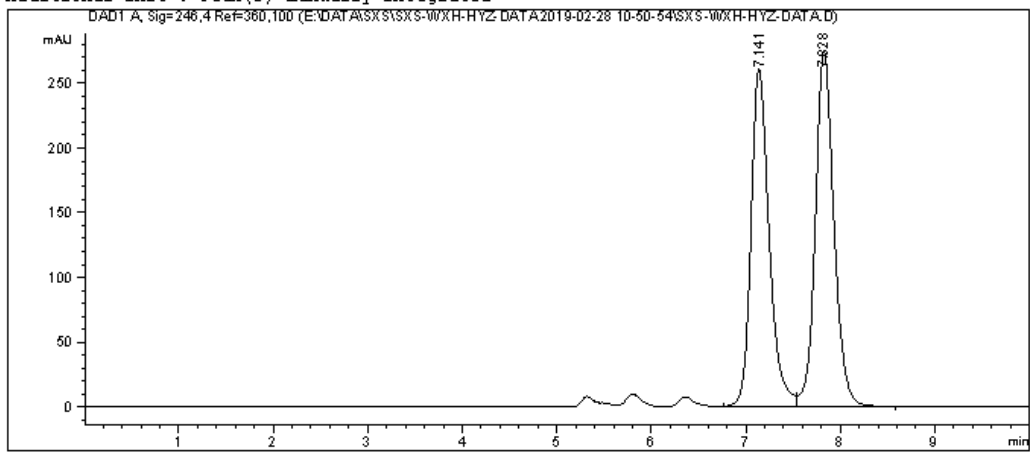


(Rac)-3f

Data File E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\SXS-WXH-HYZ-DATA.D
 Sample Name: HYZ-1-93-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   99
Injection Date  : 2/28/2019 10:52:34 AM      Inj       :    1
                                           Inj Volume: 2.000 µl
Acq. Method     : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 2/28/2019 10:50:55 AM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
                (Sequence Method)
Last changed    : 6/10/2019 3:12:45 PM by SYSTEM
                (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



Area Percent Report

```

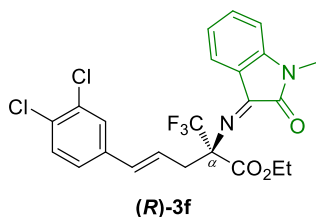
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.141	BV	0.2015	3467.88086	260.15796	48.0477
2	7.828	VB	0.2063	3749.70264	274.63828	51.9523

Totals : 7217.58350 534.79623

*** End of Report ***

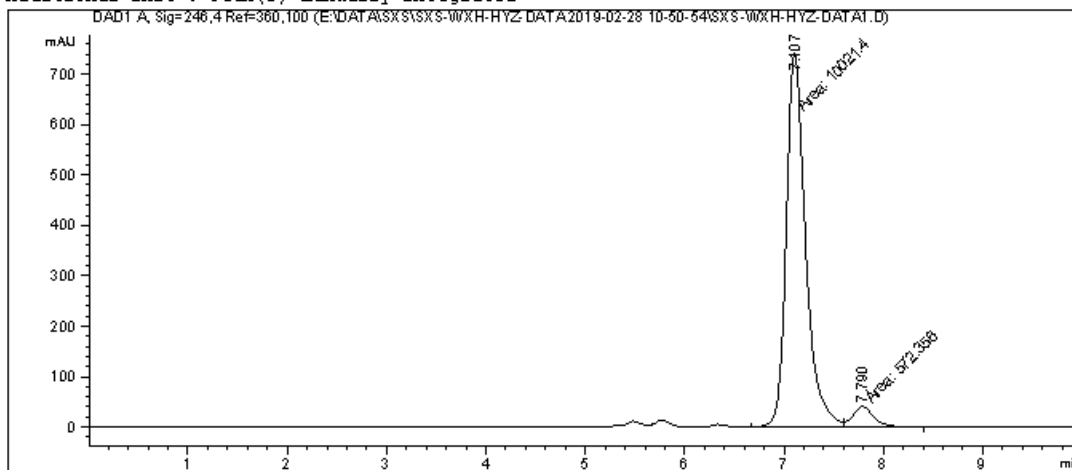


Data File E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\SXS-WXH-HYZ-DATA1.D
 Sample Name: HYZ-1-92-OPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   98
Injection Date  : 2/28/2019 11:03:56 AM      Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method    : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246MM.M
Last changed   : 2/28/2019 10:50:55 AM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246MM.M
                (Sequence Method)
Last changed   : 7/23/2020 7:29:50 PM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

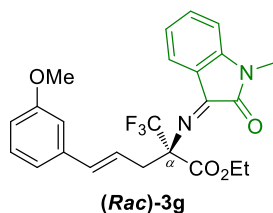
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.107	MF	0.2251	1.00214e4	741.88147	94.5973
2	7.790	FM	0.2372	572.35626	40.22356	5.4027

Totals : 1.05938e4 782.10503

=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\SXS-WXH-HYZ-DATA2.D
 Sample Name: HYZ-1-91-RAC

```

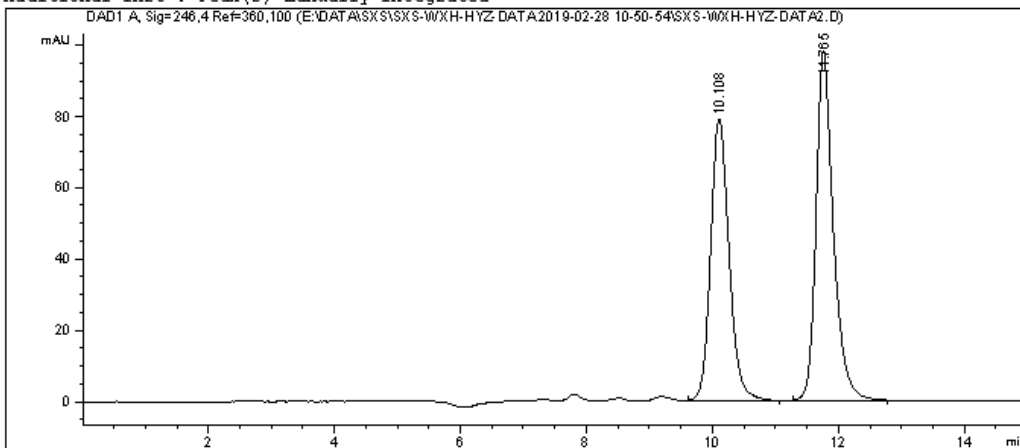
=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                      Location  :   88
Injection Date  : 2/28/2019 11:15:16 AM      Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 2/28/2019 11:24:50 AM by SYSTEM
                 (modified after loading)

Analysis Method : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
                 (Sequence Method)

Last changed    : 6/10/2019 3:06:32 PM by SYSTEM
                 (modified after loading)

Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

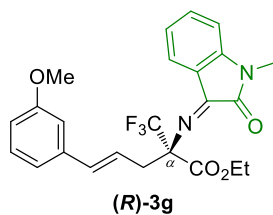
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.108	BB	0.3035	1596.68396	78.78055	46.1271
2	11.765	BB	0.2793	1864.80676	97.85699	53.8729

Totals : 3461.49072 176.63754

=====
 *** End of Report ***

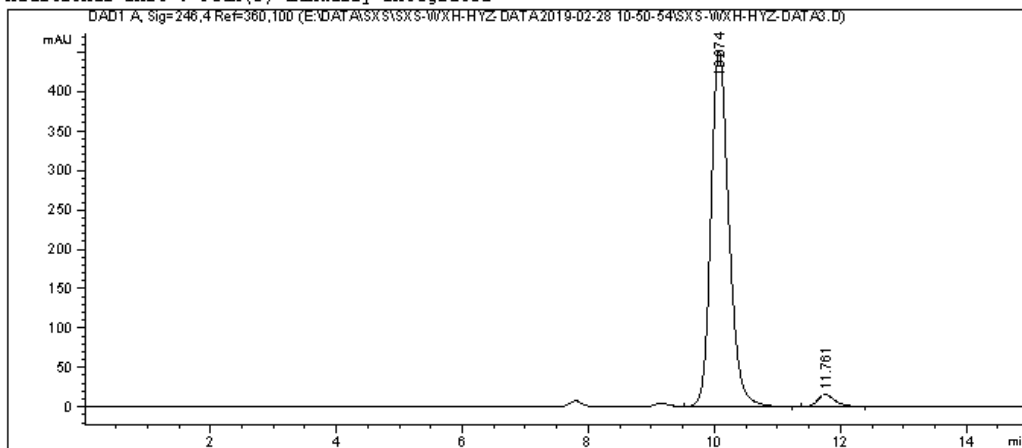


Data File E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\SXS-WXH-HYZ-DATA3.D
 Sample Name: HYZ-1-90-OPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                       Location  :   87
Injection Date  : 2/28/2019 11:31:39 AM      Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 2/28/2019 11:24:50 AM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
                (Sequence Method)
Last changed    : 6/10/2019 3:06:32 PM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

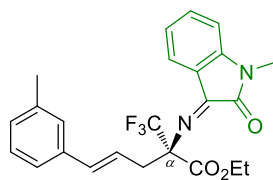
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.074	BB	0.3027	8924.87109	451.36310	96.8467
2	11.761	BB	0.2466	290.58960	15.72202	3.1533

Totals : 9215.46069 467.08511

=====
 *** End of Report ***

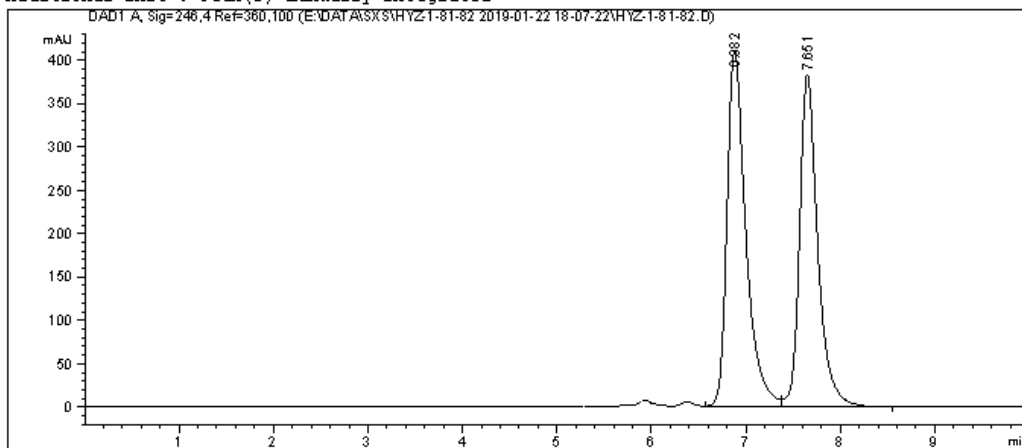


(Rac)-3h

Data File E:\DATA\SXS\HYZ-1-81-82 2019-01-22 18-07-22\HYZ-1-81-82.D
 Sample Name: HYZ-1-81-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   61
Injection Date  : 1/22/2019 6:08:47 PM       Inj       :    1
                                           Inj Volume: 2.000 µl
Acq. Method     : E:\DATA\SXS\HYZ-1-81-82 2019-01-22 18-07-22\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 1/22/2019 6:07:23 PM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-1-81-82 2019-01-22 18-07-22\ID-95-5-2UL-10MIN-246NM.M (
Sequence Method)
Last changed    : 6/10/2019 11:21:21 AM by SYSTEM
(modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

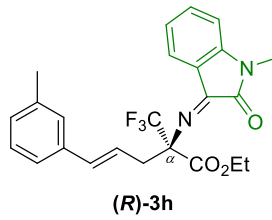
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.882	VV	0.2072	5667.21582	410.24457	52.5967
2	7.651	VB	0.2008	5107.63477	382.52240	47.4033

Totals : 1.07749e4 792.76697

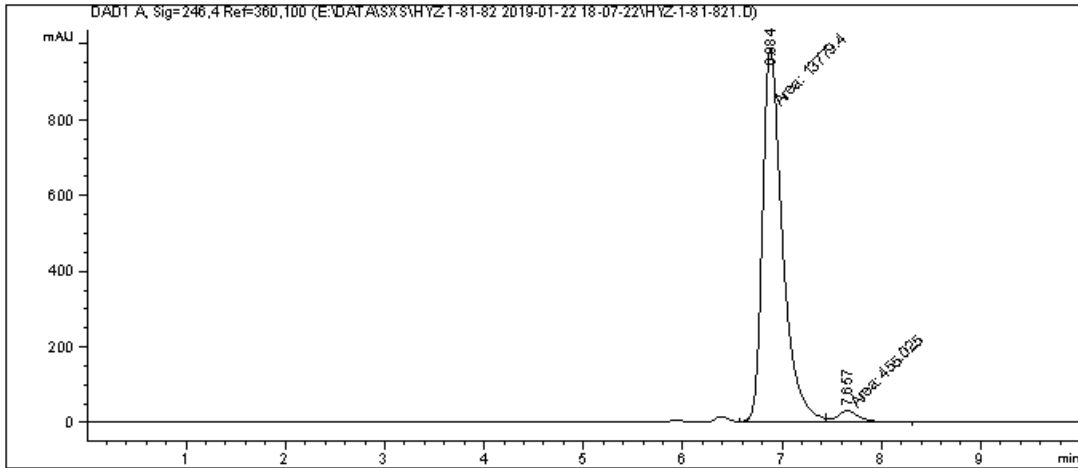
=====
 *** End of Report ***



Data File E:\DATA\SXS\HYZ-1-81-82 2019-01-22 18-07-22\HYZ-1-81-821.D
 Sample Name: HYZ-1-82

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   62
Injection Date  : 1/22/2019 6:20:11 PM      Inj       :    1
                                           Inj Volume: 2.000 µl
Acq. Method     : E:\DATA\SXS\HYZ-1-81-82 2019-01-22 18-07-22\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 1/22/2019 6:07:23 PM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-1-81-82 2019-01-22 18-07-22\ID-95-5-2UL-10MIN-246NM.M (
Sequence Method)
Last changed    : 7/23/2020 7:26:49 PM by SYSTEM
                 (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

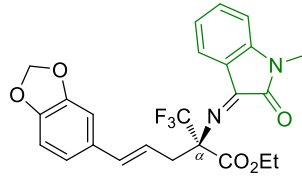
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.884	MF	0.2326	1.37794e4	987.38055	96.8033
2	7.657	FM	0.2499	455.02499	30.34300	3.1967

Totals : 1.42344e4 1017.72355

=====
 *** End of Report ***



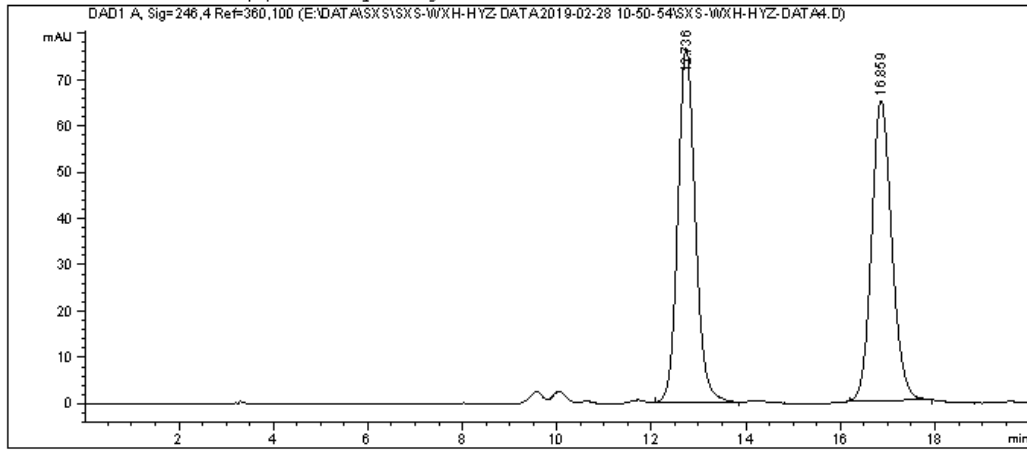
(Rac)-3i

Data File E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\SXS-WXH-HYZ-DATA4.D
 Sample Name: WXH-1-33-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    5
Acq. Instrument : 1260                        Location  :   62
Injection Date  : 2/28/2019 11:48:05 AM      Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 2/28/2019 12:04:02 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
                  (Sequence Method)
Last changed    : 6/10/2019 3:06:32 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

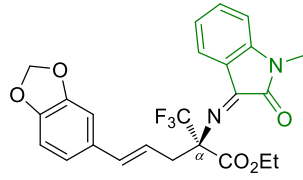
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.736	BB	0.3761	1954.90601	76.51831	50.3728
2	16.859	BB	0.4172	1925.96765	64.90964	49.6272

Totals : 3880.87366 141.42795

=====
 *** End of Report ***



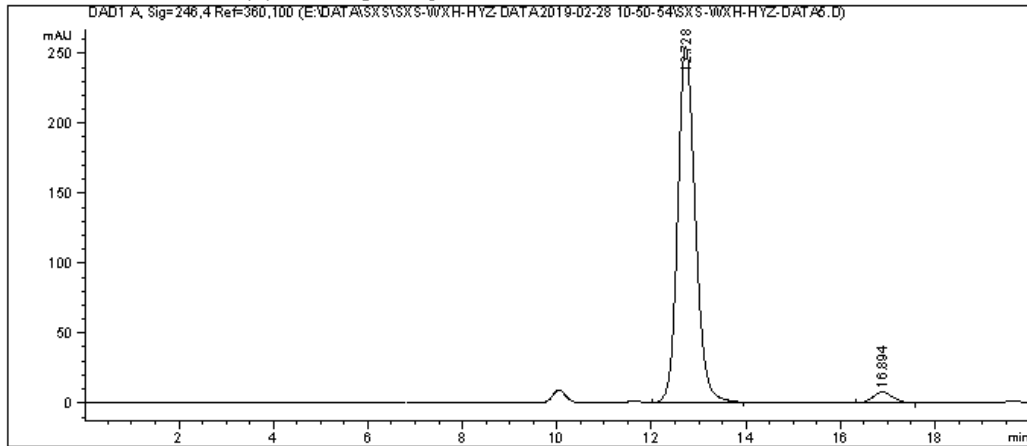
(R)-3i

Data File E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\SXS-WXH-HYZ-DATA5.D
 Sample Name: WXH-1-34-OPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    6
Acq. Instrument : 1260                        Location  :   63
Injection Date  : 2/28/2019 12:09:33 PM      Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 2/28/2019 12:04:02 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
                (Sequence Method)
Last changed    : 6/10/2019 3:06:32 PM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

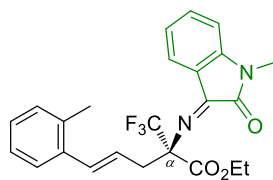
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.728	BB	0.3916	6553.11670	254.36826	96.7753
2	16.894	BB	0.3414	218.36043	7.59565	3.2247

Totals : 6771.47713 261.96391

=====
 *** End of Report ***



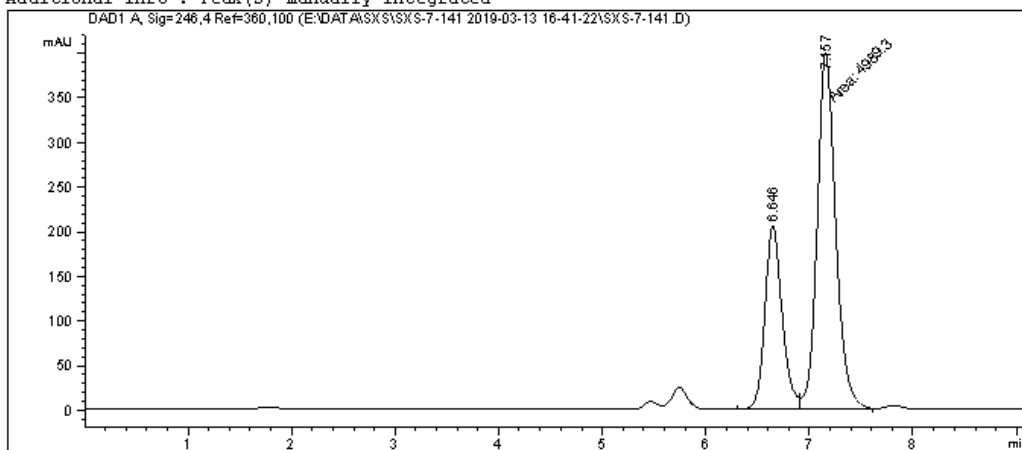
(Rac)-3j

Data File E:\DATA\SXS\SXS-7-141 2019-03-13 16-41-22\SXS-7-141.D
 Sample Name: HYZ-1-105-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   93
Injection Date  : 3/13/2019 4:42:43 PM        Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\SXS-7-141 2019-03-13 16-41-22\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 3/13/2019 4:51:51 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-7-141 2019-03-13 16-41-22\ID-95-5-2UL-10MIN-246NM.M (
                  Sequence Method)
Last changed    : 6/10/2019 2:59:05 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

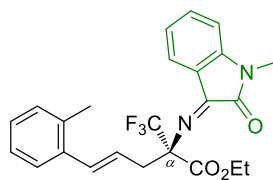
Sorted By      : Signal
Multiplier     : 1.0000
Dilution      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.646	BV	0.1748	2380.62061	206.04167	32.3019
2	7.157	MF	0.2079	4989.29590	399.88989	67.6981

Totals : 7369.91650 605.93156

*** End of Report ***



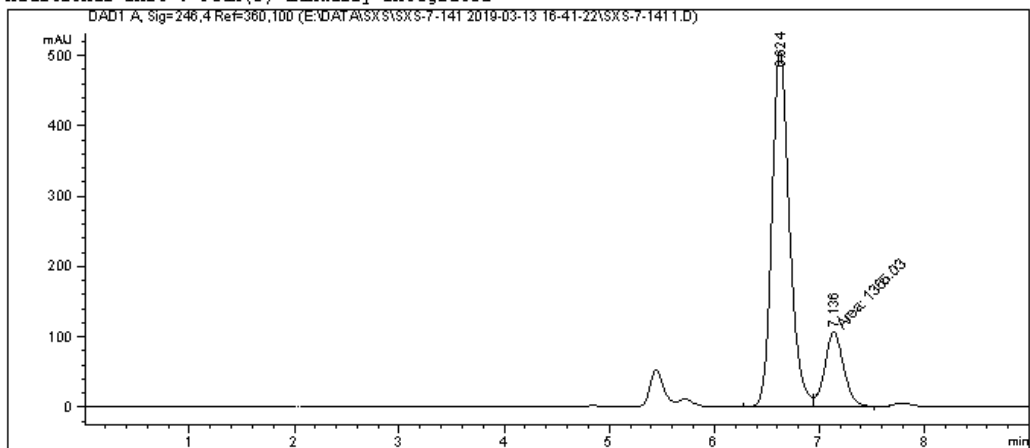
(R)-3j

Data File E:\DATA\SXS\SXS-7-141 2019-03-13 16-41-22\SXS-7-1411.D
 Sample Name: SXS-7-141-OPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   94
Injection Date  : 3/13/2019 4:53:14 PM      Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\SXS-7-141 2019-03-13 16-41-22\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 3/13/2019 4:51:51 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-7-141 2019-03-13 16-41-22\ID-95-5-2UL-10MIN-246NM.M (
Sequence Method)
Last changed    : 6/10/2019 2:59:05 PM by SYSTEM
(modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



Area Percent Report

```

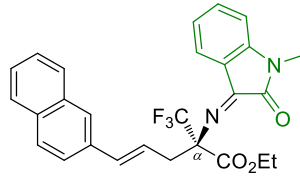
Sorted By      : Signal
Multiplier     : 1.0000
Dilution      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.624	BV	0.1769	5914.72314	507.58609	81.2489
2	7.136	MF	0.2114	1365.03442	107.62630	18.7511

Totals : 7279.75757 615.21239

*** End of Report ***

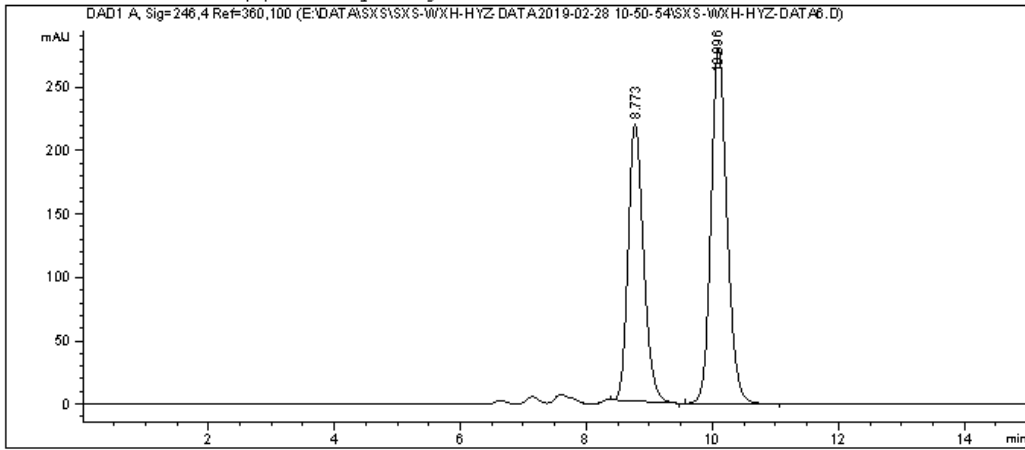


(Rac)-3k

Data File E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\SXS-WXH-HYZ-DATA6.D
 Sample Name: WXH-1-30-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    7
Acq. Instrument : 1260                       Location  :   92
Injection Date  : 2/28/2019 12:30:51 PM      Inj       :    1
                                           Inj Volume: 2.000 µl
Acq. Method     : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 2/28/2019 12:44:00 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
                  (Sequence Method)
Last changed    : 6/10/2019 3:18:52 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

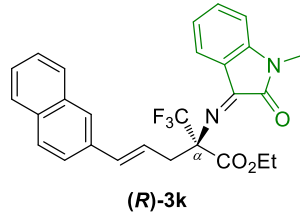
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.773	BB	0.2606	3720.31616	218.55667	42.8843
2	10.096	BB	0.2690	4954.91895	280.65497	57.1157

Totals : 8675.23511 499.21164

=====
 *** End of Report ***

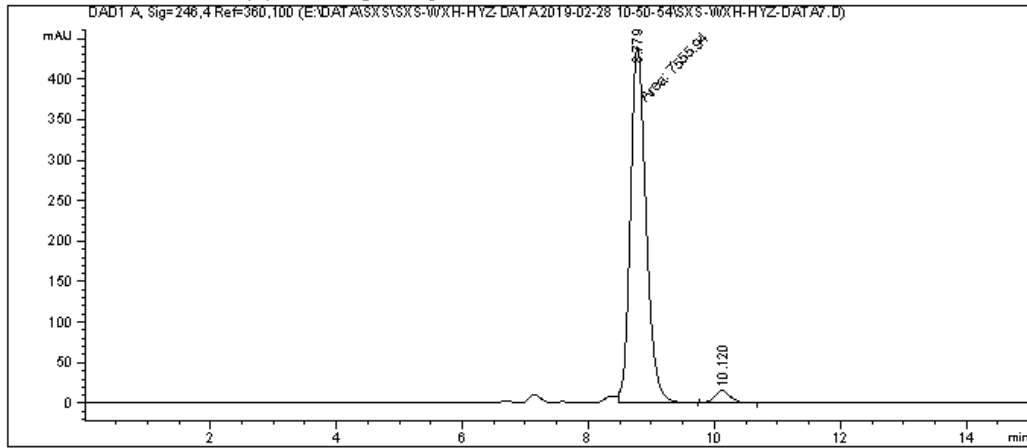


Data File E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\SXS-WXH-HYZ-DATA7.D
 Sample Name: WXH-1-31-OPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    8
Acq. Instrument : 1260                        Location  :   93
Injection Date  : 2/28/2019 12:47:15 PM      Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 2/28/2019 12:44:00 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-WXH-HYZ-DATA 2019-02-28 10-50-54\ID-95-5-2UL-10MIN-246NM.M
                (Sequence Method)
Last changed    : 6/10/2019 3:18:52 PM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

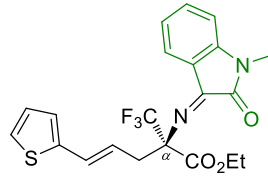
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.779	FM	0.2866	7555.93945	439.41483	96.7045
2	10.120	BB	0.2418	257.49146	14.80967	3.2955

Totals : 7813.43091 454.22449

=====
 *** End of Report ***



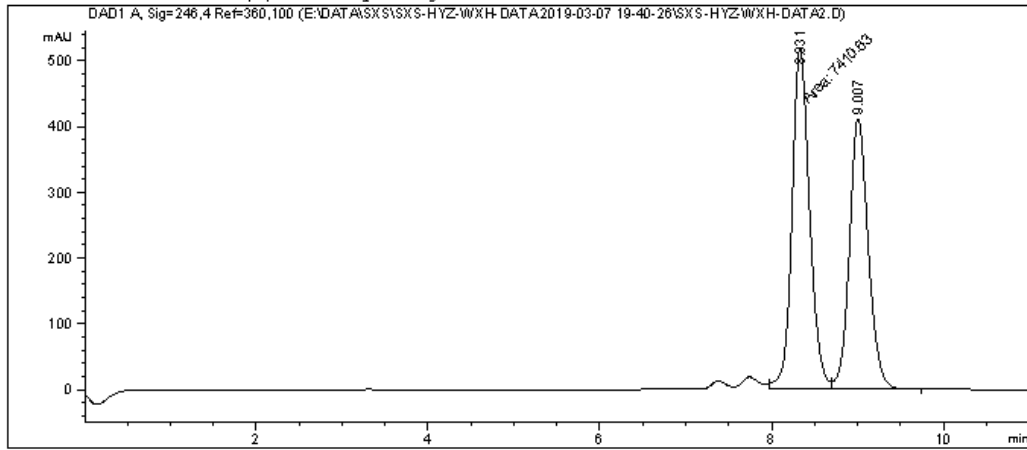
(Rac)-3I

Data File E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\SXS-HYZ-WXH-DATA2.D
 Sample Name: HYZ-1-96-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                       Location  :   94
Injection Date  : 3/7/2019 8:04:06 PM        Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 3/7/2019 8:14:40 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246NM.M
                  (Sequence Method)
Last changed    : 6/10/2019 3:21:20 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

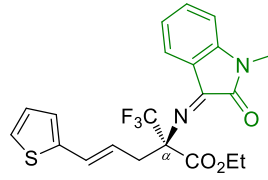
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.331	FM	0.2378	7410.62891	519.43036	53.9934
2	9.007	VB	0.2358	6314.44287	411.94699	46.0066

Totals : 1.37251e4 931.37735

*** End of Report ***



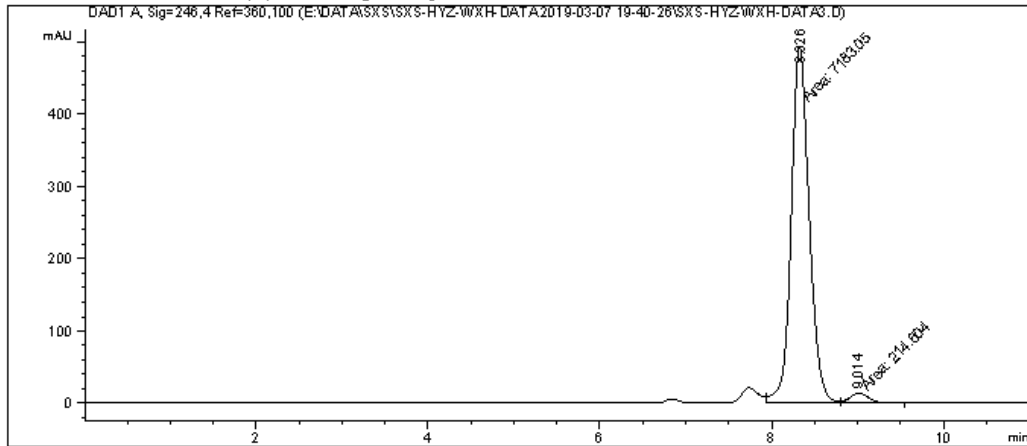
(R)-3I

Data File E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\SXS-HYZ-WXH-DATA3.D
 Sample Name: HYZ-1-95-OPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                        Location  :   95
Injection Date  : 3/7/2019 8:16:32 PM        Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 3/7/2019 8:14:40 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246NM.M
                (Sequence Method)
Last changed    : 6/10/2019 3:21:20 PM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

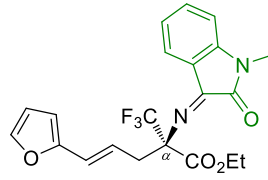
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.326	MF	0.2425	7183.05420	493.71936	97.0990
2	9.014	FM	0.2570	214.60448	13.91687	2.9010

Totals : 7397.65868 507.63623

*** End of Report ***



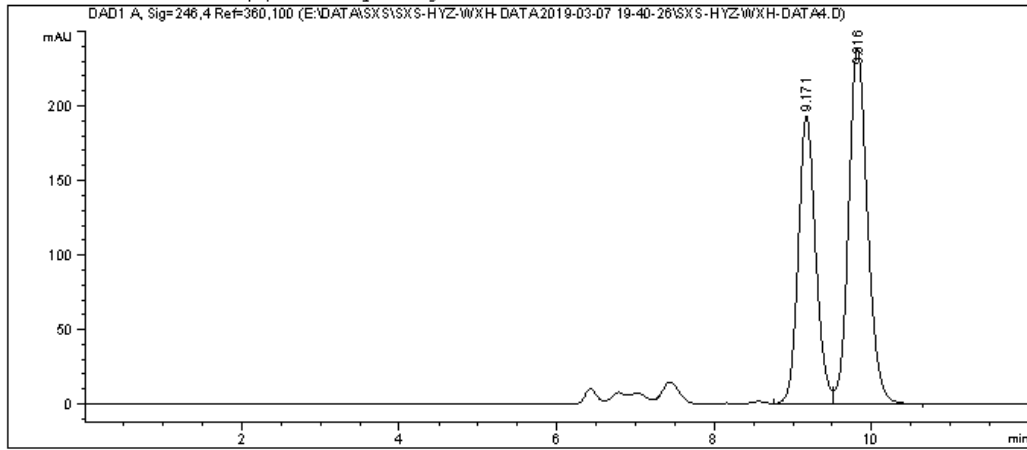
(Rac)-3m

Data File E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\SXS-HYZ-WXH-DATA4.D
 Sample Name: HYZ-1-100-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    5
Acq. Instrument : 1260                        Location  :   96
Injection Date  : 3/7/2019 8:29:04 PM        Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method     : E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 3/7/2019 8:41:05 PM by SYSTEM
                 (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246NM.M
                 (Sequence Method)
Last changed    : 6/10/2019 3:21:20 PM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

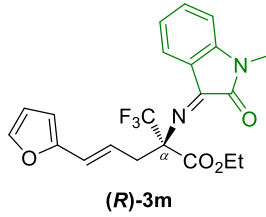
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.171	BV	0.2328	2950.79272	192.59013	42.6344
2	9.816	VB	0.2540	3970.36499	238.74599	57.3656

Totals : 6921.15771 431.33612

=====
 *** End of Report ***

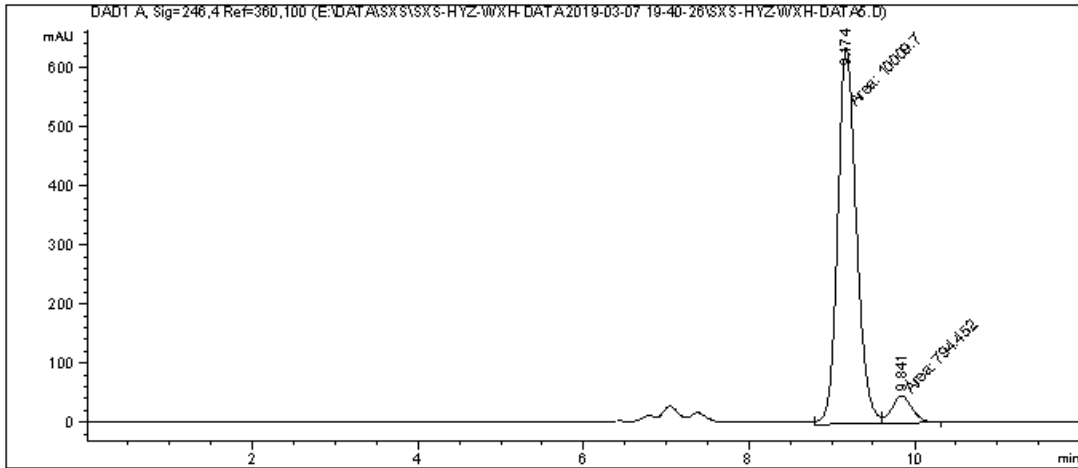


Data File E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\SXS-HYZ-WXH-DATA5.D
 Sample Name: HYZ-1-99-OPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    6
Acq. Instrument : 1260                        Location  :   97
Injection Date  : 3/7/2019 8:42:29 PM        Inj       :    1
                                           Inj Volume: 2.000 µl

Acq. Method    : E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246MM.M
Last changed   : 3/7/2019 8:41:05 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-HYZ-WXH-DATA 2019-03-07 19-40-26\ID-95-5-2UL-10MIN-246MM.M
                (Sequence Method)
Last changed   : 7/23/2020 7:23:18 PM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

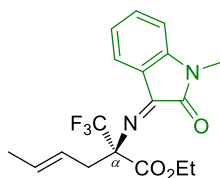
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.174	MF	0.2622	1.00097e4	636.30359	92.6468
2	9.841	FM	0.2858	794.45215	46.32913	7.3532

Totals : 1.08042e4 682.63272

=====
 *** End of Report ***



(Rac)-3n

Data File E:\DATA\SXS\SXS-8-132 2019-09-02 08-59-07\SXS-8-132.D
 Sample Name: SXS-8-140-RAC

```

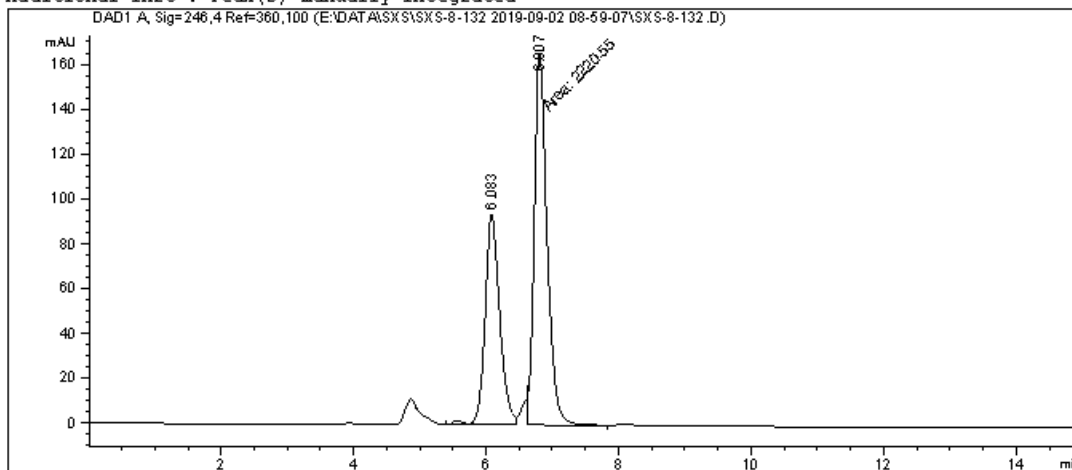
=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   94
Injection Date  : 9/2/2019 9:00:33 AM        Inj       :    1
                                           Inj Volume: 1.000 µl

Acq. Method     : E:\DATA\SXS\SXS-8-132 2019-09-02 08-59-07\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 9/2/2019 8:59:50 AM by SYSTEM
                  (modified after loading)

Analysis Method : E:\DATA\SXS\SXS-8-132 2019-09-02 08-59-07\ID-95-5-2UL-10MIN-246NM.M (
                  Sequence Method)

Last changed    : 5/1/2020 8:37:08 AM by SYSTEM
                  (modified after loading)

Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

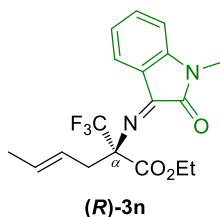
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.083	VV R	0.2266	1440.52869	94.10809	39.3472
2	6.807	FM	0.2231	2220.54590	165.88333	60.6528

Totals : 3661.07458 259.99142

*** End of Report ***



Data File E:\DATA\SXS\SXS-8-132 2019-09-02 08-59-07\SXS-8-1321.D
 Sample Name: SXS-8-132-0P

```

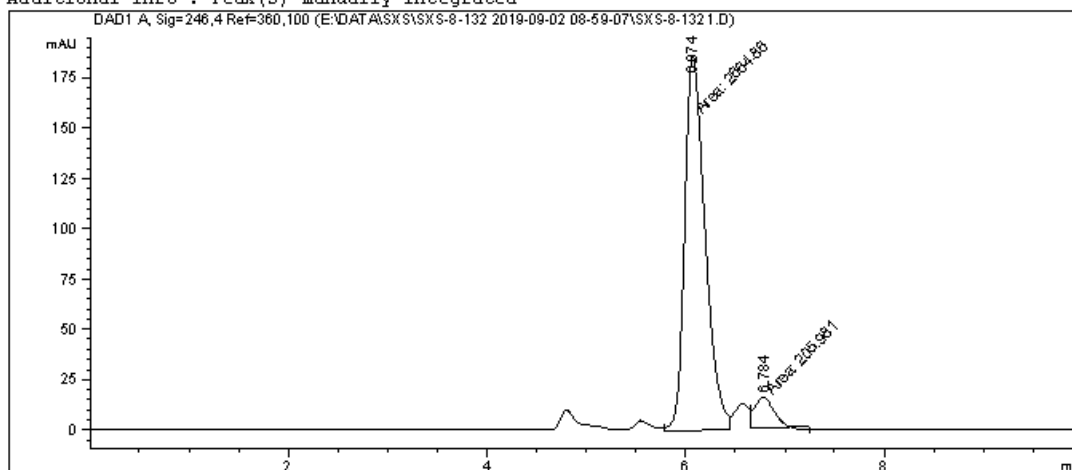
=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   95
Injection Date  : 9/2/2019 9:16:50 AM        Inj       :    1
                                           Inj Volume: 1.000 µl

Acq. Method     : E:\DATA\SXS\SXS-8-132 2019-09-02 08-59-07\ID-95-5-2UL-10MIN-246NM.M
Last changed    : 9/2/2019 9:24:50 AM by SYSTEM
                  (modified after loading)

Analysis Method : E:\DATA\SXS\SXS-8-132 2019-09-02 08-59-07\ID-95-5-2UL-10MIN-246NM.M (
                  Sequence Method)

Last changed    : 5/4/2020 4:23:33 PM by SYSTEM
                  (modified after loading)

Additional Info : Peak(s) manually integrated
  
```



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 Area Percent Report
 =====

```

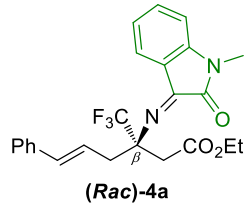
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=246,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.074	MF	0.2381	2664.85962	186.51056	92.8251
2	6.784	FM	0.2213	205.98106	15.51311	7.1749

Totals : 2870.84068 202.02367

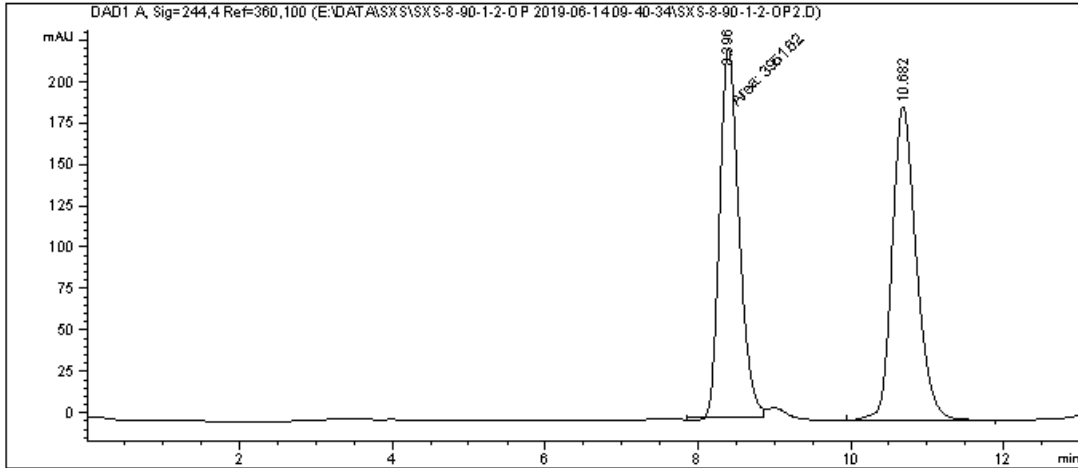
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\SXS-8-90-1-2-OP2.D
 Sample Name: SXS-8-79-2-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                        Location  :   94
Injection Date  : 6/14/2019 10:20:55 AM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\IDH-95-5-244NM-15MIN-3UL-1.
                                           OML.M
Last changed    : 6/14/2019 10:32:31 AM by SYSTEM
                                           (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\IDH-95-5-244NM-15MIN-3UL-1.
                                           OML.M (Sequence Method)
Last changed    : 4/30/2020 8:28:52 PM by SYSTEM
                                           (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

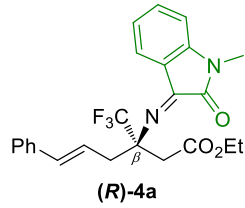
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.396	MF	0.2946	3951.61890	223.58913	48.7994
2	10.682	BB	0.3356	4146.05713	189.21996	51.2006

Totals : 8097.67603 412.80908

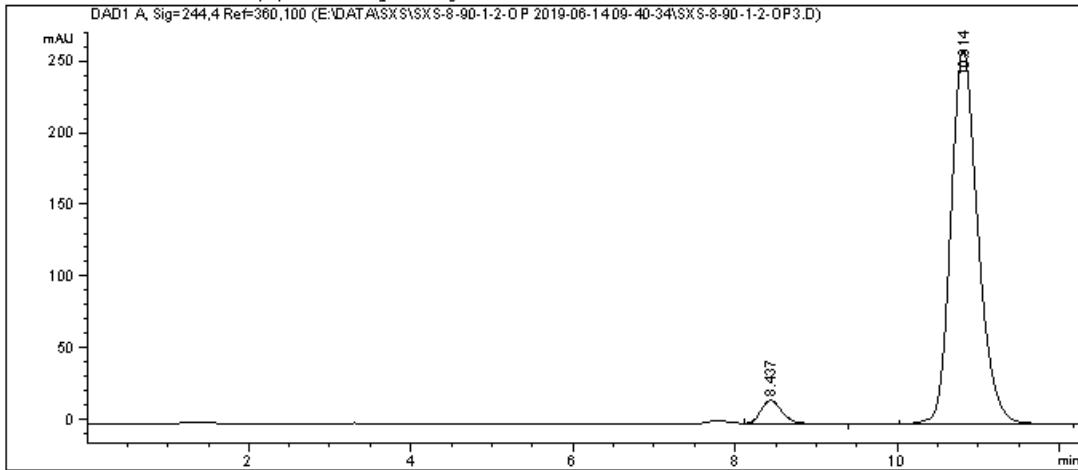
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\SXS-8-90-1-2-OP3.D
 Sample Name: SXS-8-90-2-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                        Location  :   95
Injection Date  : 6/14/2019 10:35:29 AM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\IDH-95-5-244NM-15MIN-3UL-1.
                                           OML.M
Last changed    : 6/14/2019 10:47:44 AM by SYSTEM
                                           (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\IDH-95-5-244NM-15MIN-3UL-1.
                                           OML.M (Sequence Method)
Last changed    : 4/30/2020 8:29:11 PM by SYSTEM
                                           (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

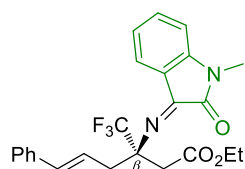
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.437	BB	0.2812	300.07535	16.42327	4.7236
2	10.814	BB	0.3534	6052.56787	261.10449	95.2764

Totals : 6352.64322 277.52776

=====
 *** End of Report ***

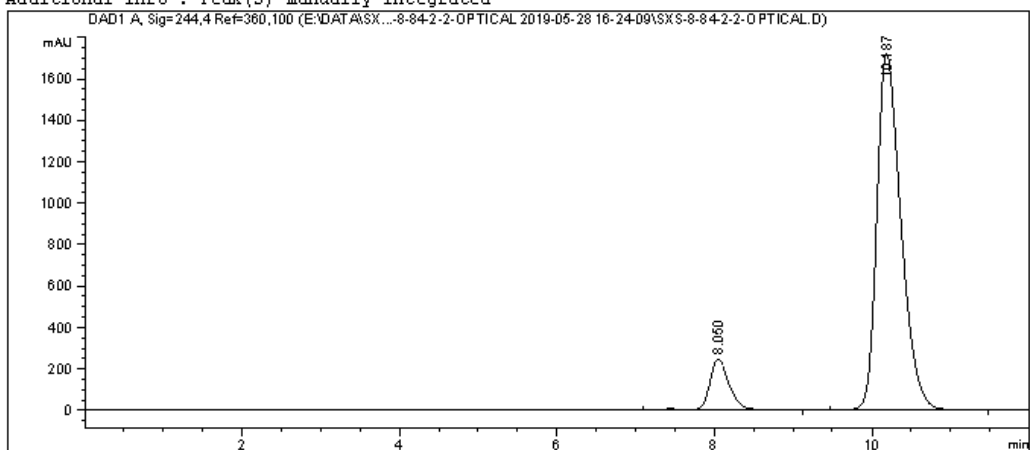


(R)-4a in Scheme S1a

Data File E:\DATA\SXS\SXS-8-84-2-2-OPTICAL 2019-05-28 16-24-09\SXS-8-84-2-2-OPTICAL.D
 Sample Name: SXS-8-84-2-2-OPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   92
Injection Date  : 5/28/2019 4:25:39 PM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method    : E:\DATA\SXS\SXS-8-84-2-2-OPTICAL 2019-05-28 16-24-09\IDH-95-5-244NM-15MIN-3UL-1.OML.M
Last changed   : 5/28/2019 4:36:53 PM by SYSTEM
                (modified after loading)
Analysis Method: E:\DATA\SXS\SXS-8-84-2-2-OPTICAL 2019-05-28 16-24-09\IDH-95-5-244NM-15MIN-3UL-1.OML.M (Sequence Method)
Last changed   : 9/15/2020 9:55:46 AM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

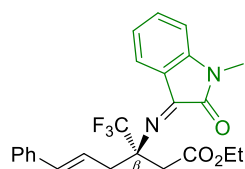
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.050	VB R	0.2551	4291.62012	248.43687	10.4996
2	10.187	BB	0.3258	3.65825e4	1722.53345	89.5004

Totals : 4.08741e4 1970.97032

=====
 *** End of Report ***



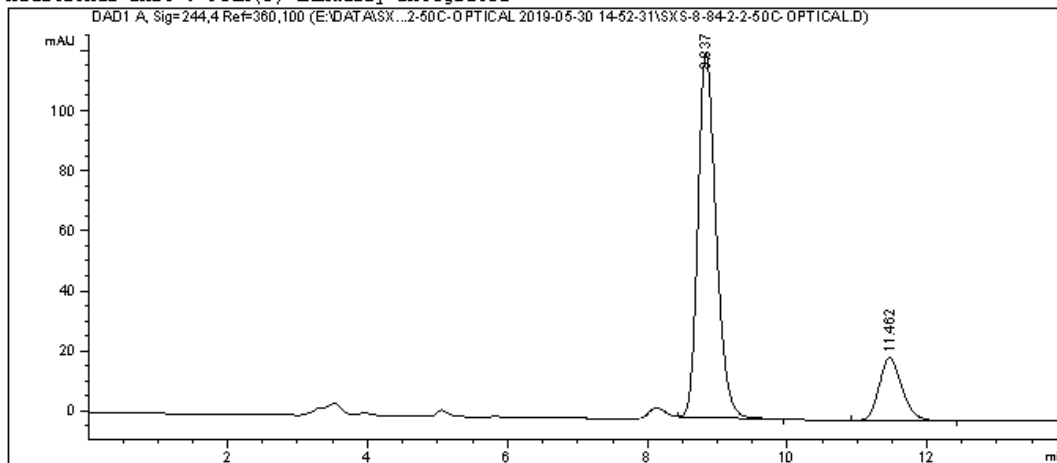
Data File E:\DATA\SX...8-84-2-2-50C-OPTICAL 2019-05-30 14-52-31\SXS-8-84-2-2-50C-OPTICAL.D
 Sample Name: SXS-8-84-2-2--50COPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : L260                       Location  :   92
Injection Date  : 5/30/2019 2:53:59 PM       Inj       :    1
                                           Inj Volume: 3.000 µl

Acq. Method     : E:\DATA\SXS\SXS-8-84-2-2-50C-OPTICAL 2019-05-30 14-52-31\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M
Last changed    : 5/30/2019 3:06:21 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-8-84-2-2-50C-OPTICAL 2019-05-30 14-52-31\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M (Sequence Method)
Last changed    : 9/15/2020 9:49:58 AM by SYSTEM
                  (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



=====
 Area Percent Report
 =====

```

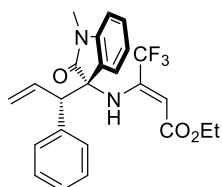
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.837	BB	0.2745	2185.88843	121.75075	82.0538
2	11.462	BB	0.3435	478.08057	21.00443	17.9462

Totals : 2663.96899 142.75518

=====
 *** End of Report ***

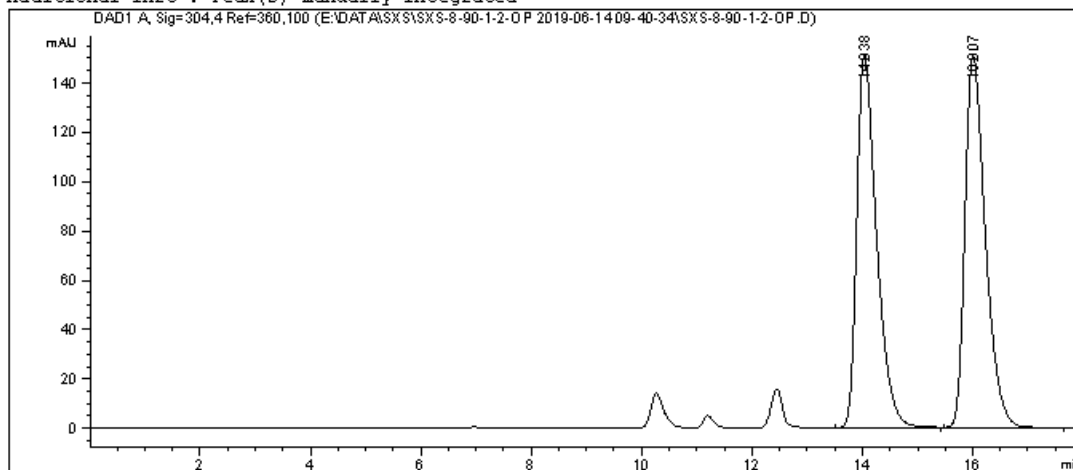


(Rac)-5a

Data File E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\SXS-8-90-1-2-OP.D
 Sample Name: SXS-8-79-1-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   92
Injection Date  : 6/14/2019 9:42:03 AM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\IEH-95-5-304NM-3UL-10MIN1.
                  OML.M
Last changed    : 6/14/2019 9:59:55 AM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\IEH-95-5-304NM-3UL-10MIN1.
                  OML.M (Sequence Method)
Last changed    : 4/30/2020 8:27:32 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

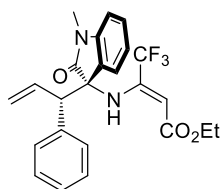
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.038	BB	0.3748	3781.72363	151.69434	49.4431
2	16.007	BB	0.3881	3866.91797	150.83446	50.5569

Totals : 7648.64160 302.52879

=====
 *** End of Report ***

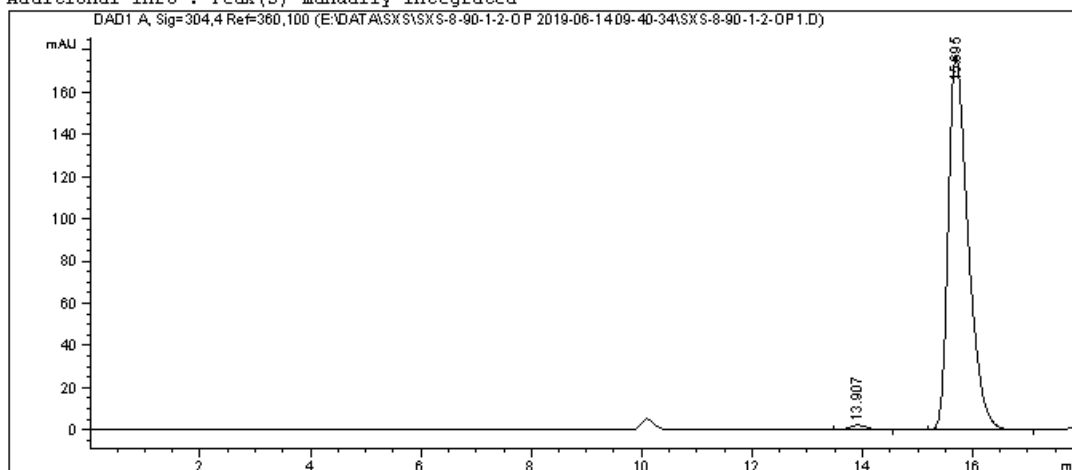


(S,S)-5a

Data File E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\SXS-8-90-1-2-OP1.D
 Sample Name: SXS-8-90-1-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   93
Injection Date  : 6/14/2019 10:01:28 AM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\IEH-95-5-304NM-3UL-10MIN1.
                                           OML.M
Last changed    : 6/14/2019 9:59:55 AM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-8-90-1-2-OP 2019-06-14 09-40-34\IEH-95-5-304NM-3UL-10MIN1.
                                           OML.M (Sequence Method)
Last changed    : 4/30/2020 8:27:54 PM by SYSTEM
                                           (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

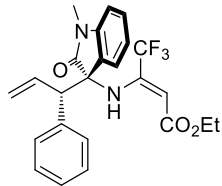
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.907	BB	0.2727	52.85106	2.36488	1.1803
2	15.695	BB	0.3747	4424.86768	177.57552	98.8197

Totals : 4477.71873 179.94039

*** End of Report ***

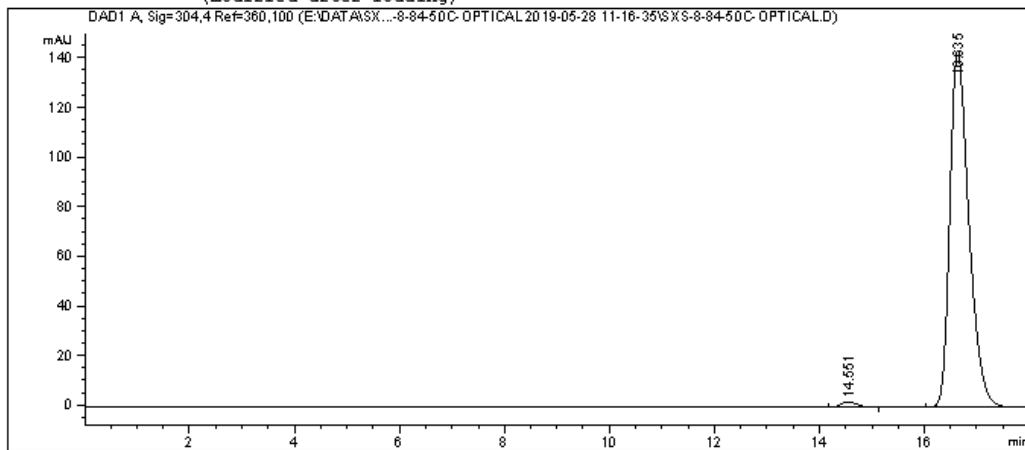


(S,S)-5a in Scheme S1a

Data File E:\DATA\SXS\SXS-8-84-50C-OPTICAL 2019-05-28 11-16-35\SXS-8-84-50C-OPTICAL.D
 Sample Name: SXS-8-84-1-2-OPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   92
Injection Date  : 5/28/2019 11:18:03 AM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-84-50C-OPTICAL 2019-05-28 11-16-35\IEH-95-5-304NM-3UL-
                  10MIN1.0ML.M
Last changed    : 5/28/2019 11:35:35 AM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-8-84-50C-OPTICAL 2019-05-28 11-16-35\IEH-95-5-304NM-3UL-
                  10MIN1.0ML.M (Sequence Method)
Last changed    : 9/15/2020 9:59:43 AM by SYSTEM
                  (modified after loading)
  
```



=====
 Area Percent Report
 =====

```

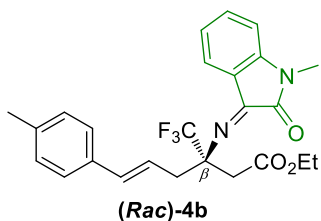
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.551	BB	0.2658	47.50323	2.14105	1.2937
2	16.635	BBA	0.3834	3624.48267	143.61610	98.7063

Totals : 3671.98590 145.75715

=====
 *** End of Report ***



Data File E:\DATA\SXS\HYZ-2-32 2019-06-16 20-29-48\HYZ-2-322.D
 Sample Name: HYZ-2-32-2-2-RAC

```

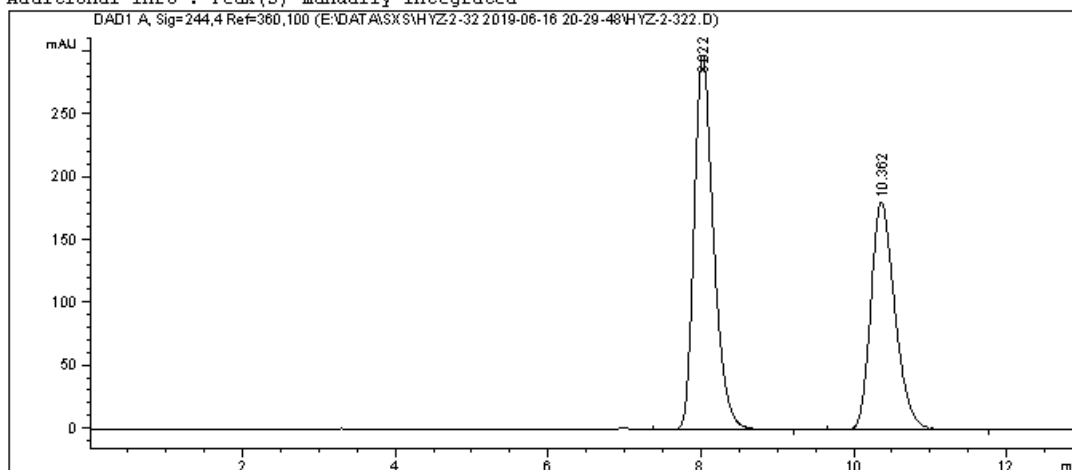
=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                       Location  :   94
Injection Date  : 6/16/2019 9:14:28 PM      Inj       :    1
                                           Inj Volume: 3.000 µl

Acq. Method    : E:\DATA\SXS\HYZ-2-32 2019-06-16 20-29-48\IDH-95-5-244NM-15MIN-3UL-1.OML.M
Last changed   : 6/16/2019 9:26:56 PM by SYSTEM
                (modified after loading)

Analysis Method : E:\DATA\SXS\HYZ-2-32 2019-06-16 20-29-48\IDH-95-5-244NM-15MIN-3UL-1.OML.M (
Sequence Method)

Last changed   : 4/30/2020 8:35:05 PM by SYSTEM
                (modified after loading)

Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

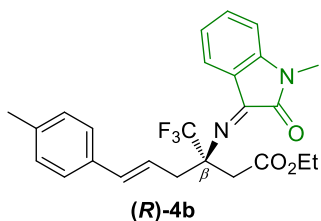
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.022	BB	0.2705	5300.97363	298.07462	57.0207
2	10.362	BB	0.3358	3995.60962	181.53757	42.9793

Totals : 9296.58325 479.61218

=====
 *** End of Report ***

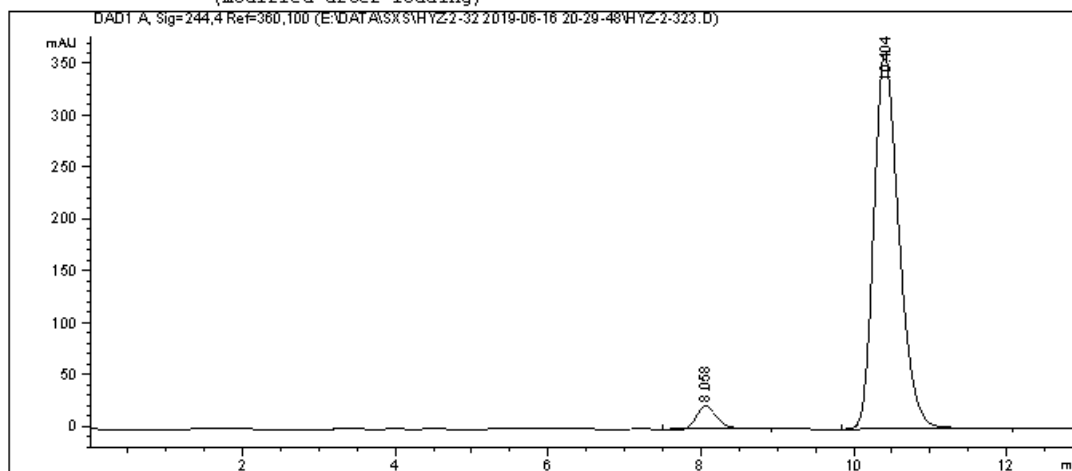


Data File E:\DATA\SXS\HYZ-2-32 2019-06-16 20-29-48\HYZ-2-323.D
 Sample Name: HYZ-2-32-2-2-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                       Location  :   95
Injection Date  : 6/16/2019 9:28:56 PM       Inj       :    1
                                           Inj Volume: 3.000 µl

Acq. Method    : E:\DATA\SXS\HYZ-2-32 2019-06-16 20-29-48\IDH-95-5-244NM-15MIN-3UL-1.OML.M
Last changed   : 6/16/2019 9:26:56 PM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-2-32 2019-06-16 20-29-48\IDH-95-5-244NM-15MIN-3UL-1.OML.M (
Sequence Method)
Last changed   : 4/30/2020 8:35:14 PM by SYSTEM
                (modified after loading)
  
```



=====
 Area Percent Report
 =====

```

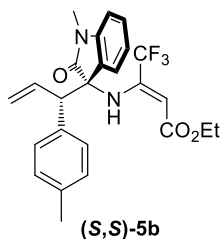
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.058	BB	0.2776	410.42096	22.31108	4.7618
2	10.404	BB	0.3483	8208.53906	361.03186	95.2382

Totals : 8618.96002 383.34294

=====
 *** End of Report ***

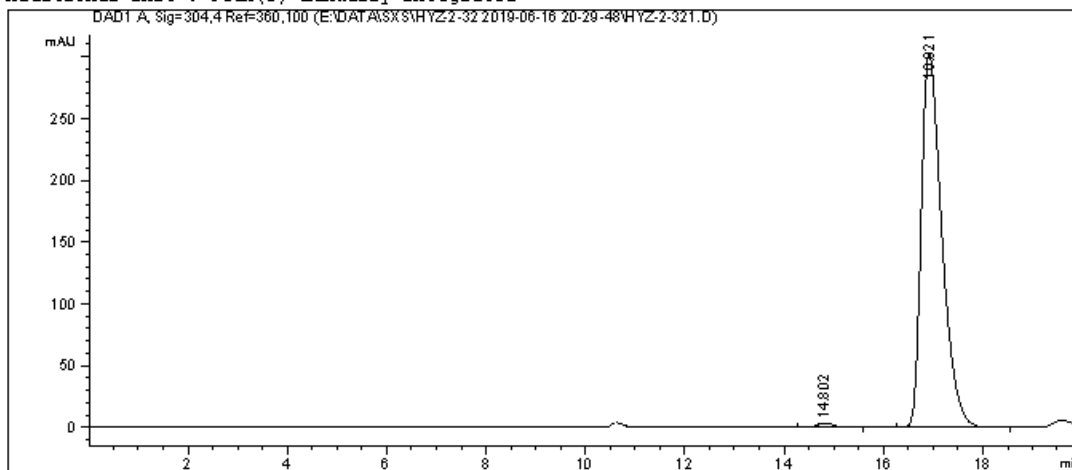


Data File E:\DATA\SXS\HYZ-2-32 2019-06-16 20-29-48\HYZ-2-321.D
 Sample Name: HYZ-2-32-1-2-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   93
Injection Date  : 6/16/2019 8:52:53 PM      Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\SXS\HYZ-2-32 2019-06-16 20-29-48\IEH-95-5-304NM-3UL-10MIN1.OML.M
Last changed    : 6/16/2019 8:49:36 PM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-2-32 2019-06-16 20-29-48\IEH-95-5-304NM-3UL-10MIN1.OML.M (
Sequence Method)
Last changed    : 4/30/2020 8:34:42 PM by SYSTEM
(modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

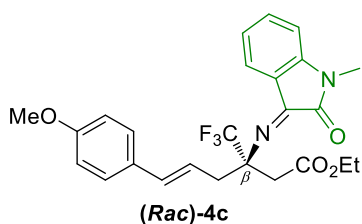
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.802	BB	0.3185	88.69089	3.40902	1.0080
2	16.921	BB	0.4424	8709.64160	302.98923	98.9920

Totals : 8798.33249 306.39825

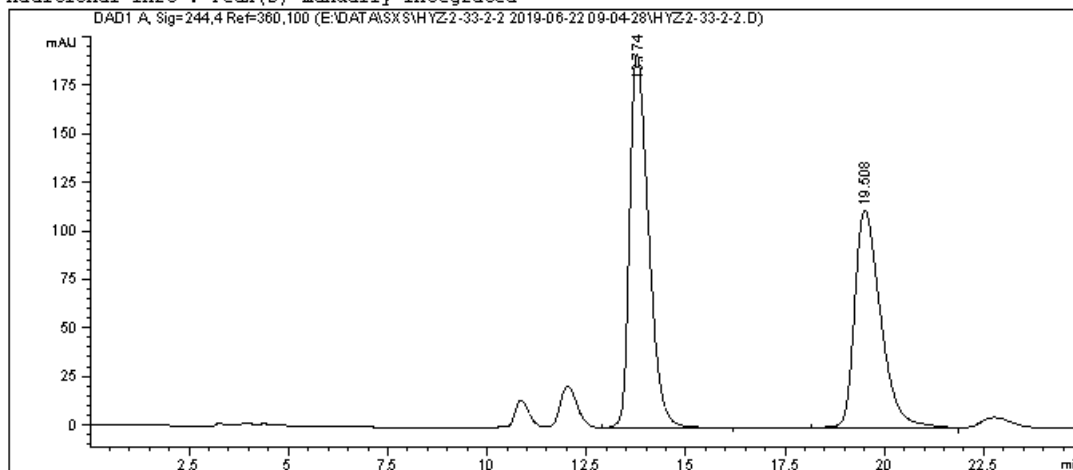
=====
 *** End of Report ***



Data File E:\DATA\SXS\HYZ-2-33-2-2 2019-06-22 09-04-28\HYZ-2-33-2-2.D
 Sample Name: HYZ-2-33-2-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   94
Injection Date  : 6/22/2019 9:05:57 AM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\HYZ-2-33-2-2 2019-06-22 09-04-28\IDH-95-5-244NM-15MIN-3UL-1.0ML
                                           .M
Last changed    : 6/22/2019 9:06:14 AM by SYSTEM
                                           (modified after loading)
Analysis Method : E:\DATA\SXS\HYZ-2-33-2-2 2019-06-22 09-04-28\IDH-95-5-244NM-15MIN-3UL-1.0ML
                                           .M (Sequence Method)
Last changed    : 4/30/2020 8:41:30 PM by SYSTEM
                                           (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

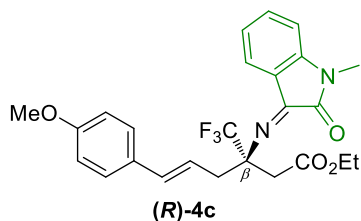
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.774	BB	0.5050	6376.47705	192.74495	55.3308
2	19.508	BB	0.6911	5147.79785	112.44548	44.6692

Totals : 1.15243e4 305.19043

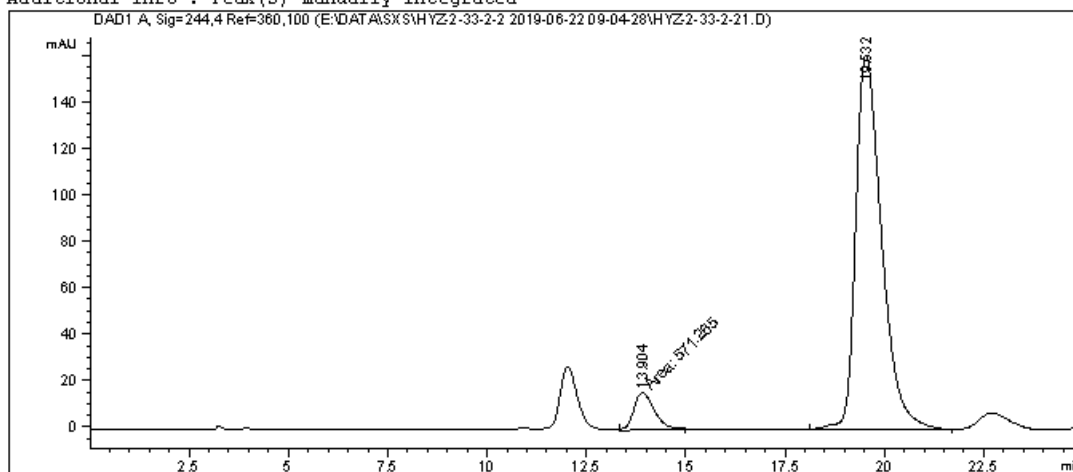
=====
 *** End of Report ***



Data File E:\DATA\SXS\HYZ-2-33-2-2 2019-06-22 09-04-28\HYZ-2-33-2-21.D
 Sample Name: SXS-8-91-2-2-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   95
Injection Date  : 6/22/2019 9:32:27 AM       Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\HYZ-2-33-2-2 2019-06-22 09-04-28\IDH-95-5-244MM-15MIN-3UL-1.0ML
                                           .M
Last changed    : 6/22/2019 9:06:14 AM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-2-33-2-2 2019-06-22 09-04-28\IDH-95-5-244MM-15MIN-3UL-1.0ML
                                           .M (Sequence Method)
Last changed    : 4/30/2020 8:41:30 PM by SYSTEM
                                           (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

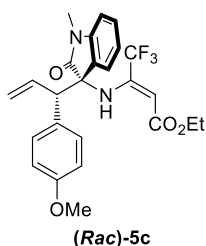
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.904	MM	0.5943	571.26471	16.02067	7.2850
2	19.532	BB	0.6896	7270.39355	160.76343	92.7150

Totals : 7841.65826 176.78410

=====
 *** End of Report ***



Data File E:\DATA\SXS\HYZ-2-33-2 2019-06-21 20-29-10\HYZ-2-33-2.D
 Sample Name: HYZ-2-33-1-2-RAC

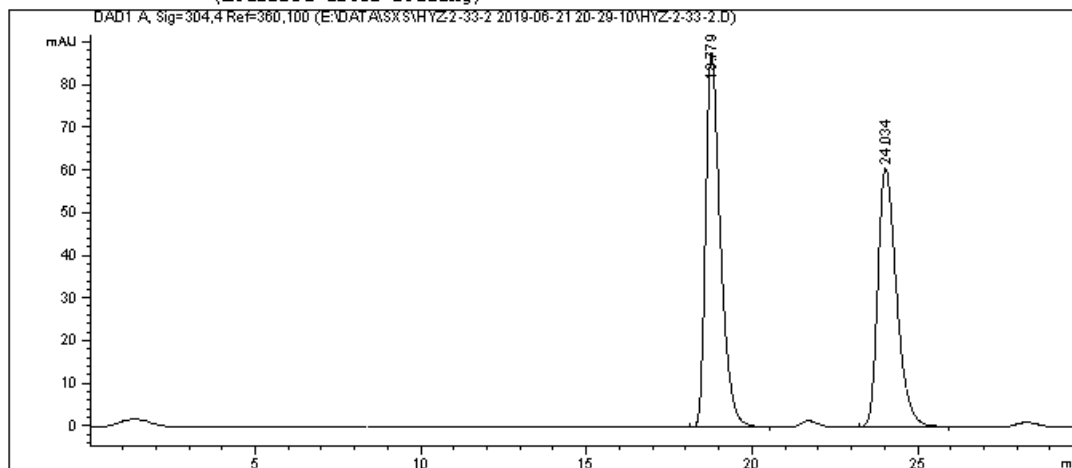
```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   92
Injection Date  : 6/21/2019 8:30:33 PM       Inj       :    1
                                           Inj Volume: 3.000 µl

Acq. Method     : E:\DATA\SXS\HYZ-2-33-2 2019-06-21 20-29-10\IEH-95-5-304NM-3UL-10MIN1.OML.M
Last changed    : 6/21/2019 8:31:05 PM by SYSTEM
                  (modified after loading)

Analysis Method : E:\DATA\SXS\HYZ-2-33-2 2019-06-21 20-29-10\IEH-95-5-304NM-3UL-10MIN1.OML.M
                  (Sequence Method)

Last changed    : 4/30/2020 8:39:29 PM by SYSTEM
                  (modified after loading)
=====
  
```



=====
 Area Percent Report
 =====

```

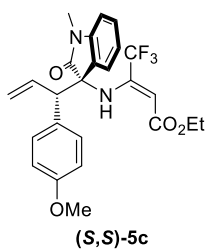
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	18.779	BB	0.4696	2733.75073	87.72095	53.6228
2	24.034	BB	0.5865	2364.36206	60.56184	46.3772

Totals : 5098.11279 148.28279

=====
 *** End of Report ***

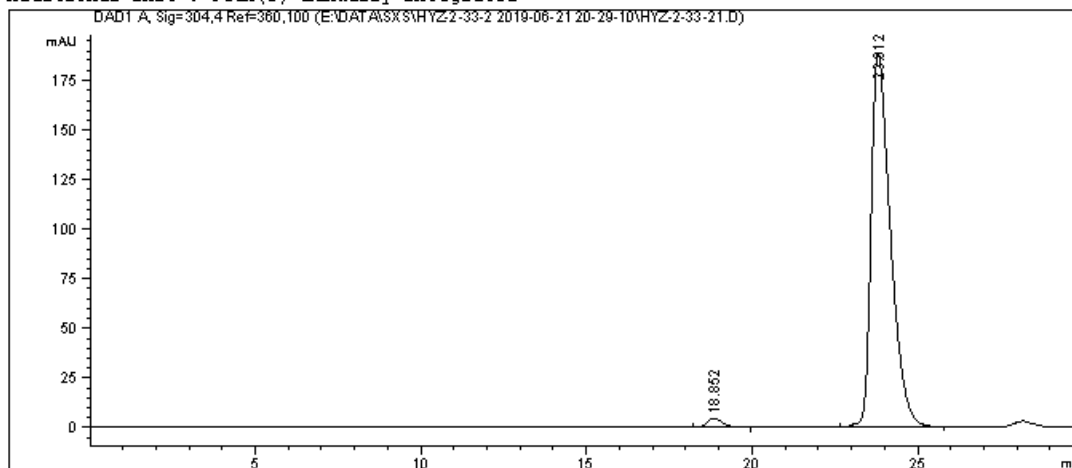


Data File E:\DATA\SXS\HYZ-2-33-2 2019-06-21 20-29-10\HYZ-2-33-21.D
 Sample Name: SXS-8-91-1-2-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                      Location  :   93
Injection Date  : 6/21/2019 9:01:55 PM      Inj       :    1
                                           Inj Volume: 3.000 µl

Acq. Method     : E:\DATA\SXS\HYZ-2-33-2 2019-06-21 20-29-10\IEH-95-5-304NM-3UL-10MIN1.OML.M
Last changed    : 6/21/2019 8:31:05 PM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-2-33-2 2019-06-21 20-29-10\IEH-95-5-304NM-3UL-10MIN1.OML.M
                  (Sequence Method)
Last changed    : 4/30/2020 8:39:41 PM by SYSTEM
                  (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

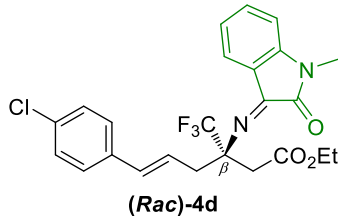
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	18.852	BB	0.3760	146.05141	4.58102	1.8771
2	23.812	BB	0.5933	7634.82666	188.58466	98.1229

Totals : 7780.87807 193.16568

=====
 *** End of Report ***



Data File E:\DATA\SXS\HYZ-2-34-35 2019-07-02 19-40-59\HYZ-2-34-35.D
 Sample Name: HYZ-2-34-2-2-RAC

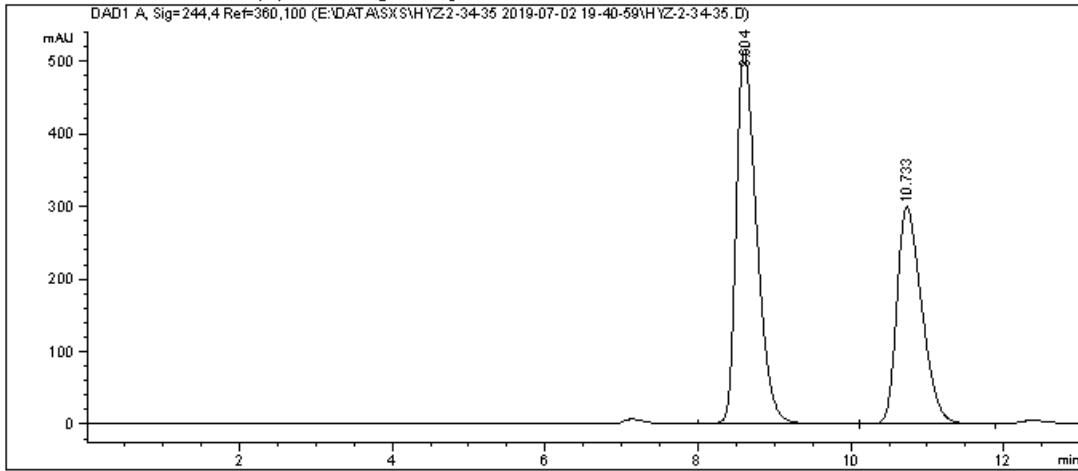
```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   92
Injection Date  : 7/2/2019 7:42:26 PM        Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\CC\HYZ-2-34-35 2019-07-02 19-40-59\IDH-95-5-244NM-15MIN-3UL-1.OML.M
Last changed    : 7/2/2019 7:54:37 PM by SYSTEM
                  (modified after loading)

Analysis Method : E:\DATA\SXS\HYZ-2-34-35 2019-07-02 19-40-59\IDH-95-5-244NM-15MIN-3UL-1.OML.M
                  (Sequence Method)
Last changed    : 4/30/2020 8:43:16 PM by SYSTEM
                  (modified after loading)

Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

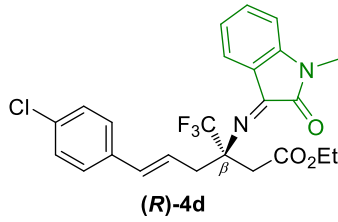
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.604	BB	0.2804	9567.85449	515.94238	58.5417
2	10.733	BB	0.3491	6775.80029	299.28949	41.4583

Totals : 1.63437e4 815.23187

=====
 *** End of Report ***

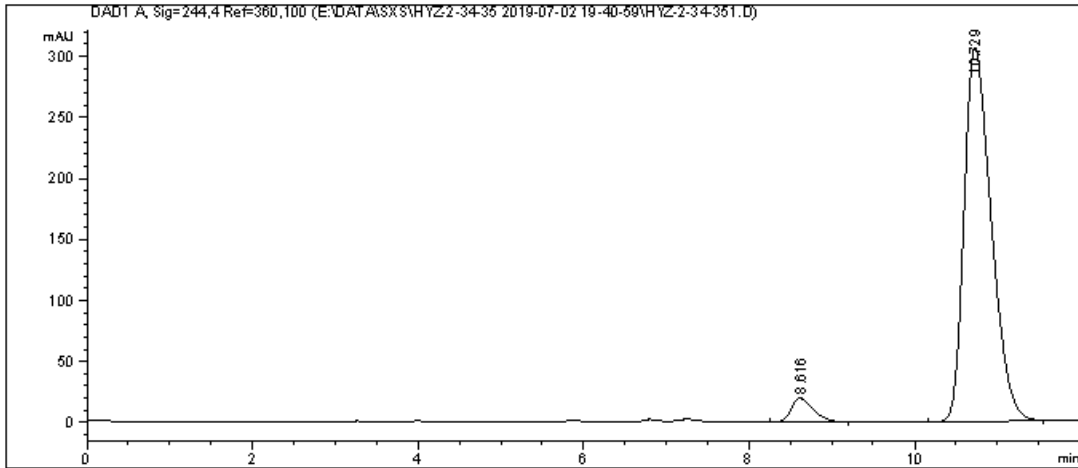


Data File E:\DATA\SXS\HYZ-2-34-35 2019-07-02 19-40-59\HYZ-2-34-351.D
 Sample Name: HYZ-2-35-2-2-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   93
Injection Date  : 7/2/2019 7:56:53 PM        Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\CC\HYZ-2-34-35 2019-07-02 19-40-59\IDH-95-5-244NM-15MIN-3UL-1.OML.M
Last changed    : 7/2/2019 7:54:37 PM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-2-34-35 2019-07-02 19-40-59\IDH-95-5-244NM-15MIN-3UL-1.OML.M
                                           M (Sequence Method)
Last changed    : 5/4/2020 4:18:43 PM by SYSTEM
                                           (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

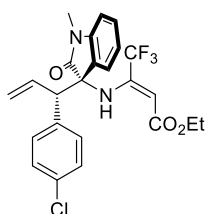
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.616	BB	0.2676	345.49841	19.14194	4.7224
2	10.729	BB	0.3489	6970.69727	305.90475	95.2776

Totals : 7316.19568 325.04669

=====
 *** End of Report ***



(Rac)-5d

Data File E:\DATA\SXS\HYZ-2-34-35 2019-07-02 19-40-59\HYZ-2-34-352.D
 Sample Name: HYZ-2-34-1-2-RAC

```

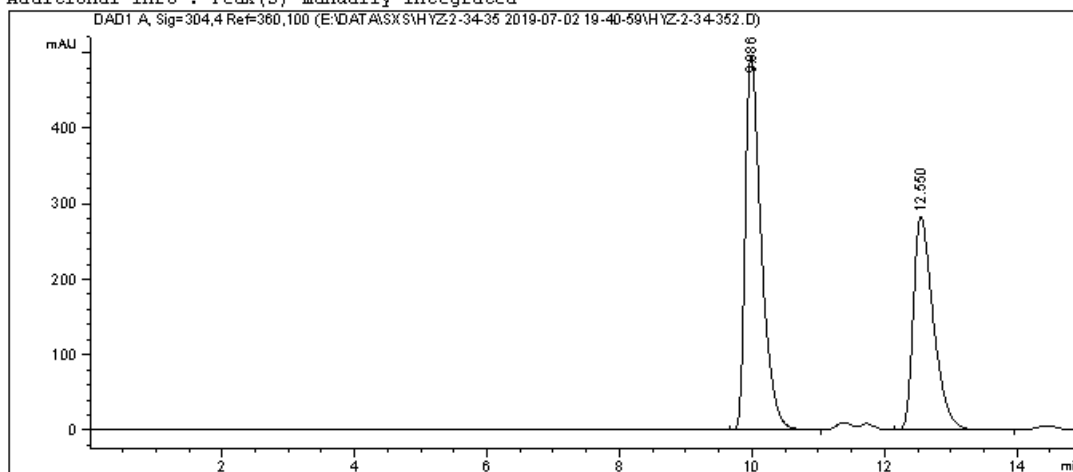
=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                        Location  :   94
Injection Date  : 7/2/2019 8:11:22 PM        Inj       :    1
                                           Inj Volume: 3.000 µl

Acq. Method    : E:\DATA\CC\HYZ-2-34-35 2019-07-02 19-40-59\IEH-95-5-304NM-3UL-10MIN1.OML.M
Last changed   : 7/2/2019 8:24:48 PM by SYSTEM
                (modified after loading)

Analysis Method : E:\DATA\SXS\HYZ-2-34-35 2019-07-02 19-40-59\IEH-95-5-304NM-3UL-10MIN1.OML.M
                (Sequence Method)

Last changed   : 4/30/2020 8:43:43 PM by SYSTEM
                (modified after loading)

Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

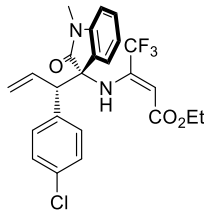
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.986	BB	0.2515	8309.56641	495.89734	58.2888
2	12.550	BB	0.3185	5946.28955	282.55365	41.7112

Totals : 1.42559e4 778.45099

*** End of Report ***



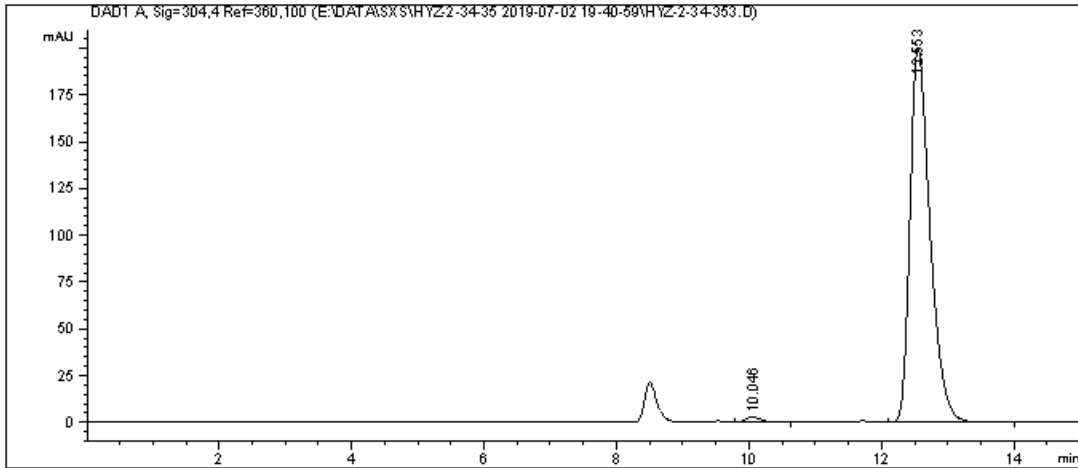
(S,S)-5d

Data File E:\DATA\SXS\HYZ-2-34-35 2019-07-02 19-40-59\HYZ-2-34-353.D
 Sample Name: HYZ-2-35-1-2-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                       Location  :   95
Injection Date  : 7/2/2019 8:27:48 PM        Inj       :    1
                                           Inj Volume: 3.000 µl

Acq. Method     : E:\DATA\CC\HYZ-2-34-35 2019-07-02 19-40-59\IEH-95-5-304NM-3UL-10MIN1.OML.M
Last changed    : 7/2/2019 8:24:48 PM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-2-34-35 2019-07-02 19-40-59\IEH-95-5-304NM-3UL-10MIN1.OML.M
                 (Sequence Method)
Last changed    : 4/30/2020 8:43:43 PM by SYSTEM
                 (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

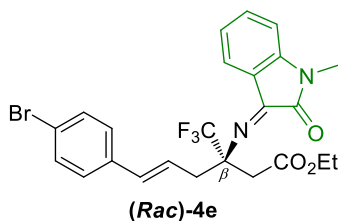
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.046	BB	0.2417	49.73006	3.09045	1.1670
2	12.553	BB	0.3184	4211.69238	200.20502	98.8330

Totals : 4261.42244 203.29547

=====
 *** End of Report ***



Data File E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\HYZ-2-31.D
 Sample Name: HYZ-2-31-2-2-RAC

```

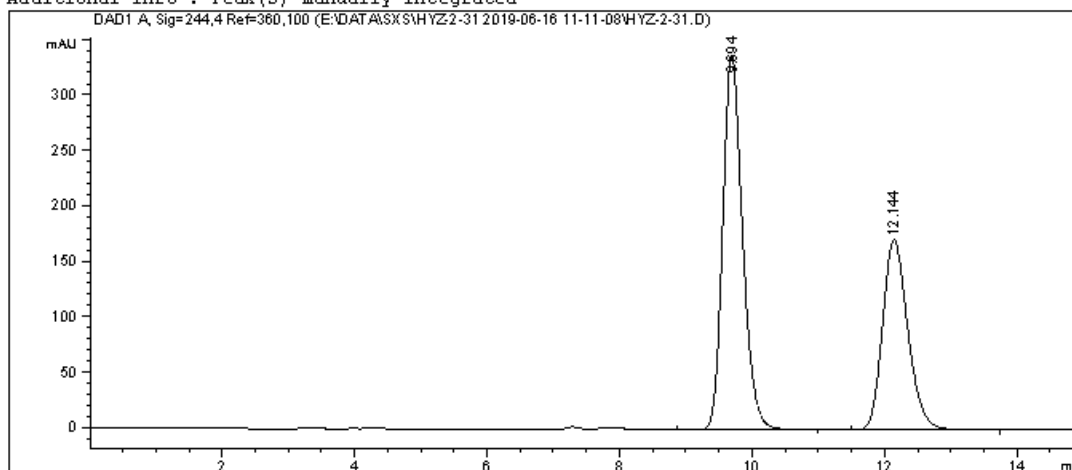
=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   92
Injection Date  : 6/16/2019 11:12:34 AM      Inj       :    1
                                           Inj Volume: 3.000 µl

Acq. Method     : E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\IDH-95-5-244NM-15MIN-3UL-1.OML.M
Last changed    : 6/16/2019 11:25:32 AM by SYSTEM
                  (modified after loading)

Analysis Method : E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\IDH-95-5-244NM-15MIN-3UL-1.OML.M (
Sequence Method)

Last changed    : 4/30/2020 8:46:30 PM by SYSTEM
                  (modified after loading)

Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

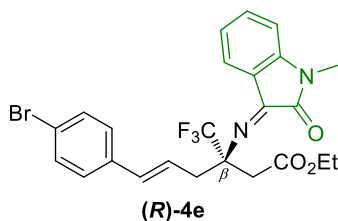
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.694	BB	0.3165	7021.87744	337.77728	60.6076
2	12.144	BB	0.4072	4563.92627	171.62692	39.3924

Totals : 1.15858e4 509.40421

=====
 *** End of Report ***

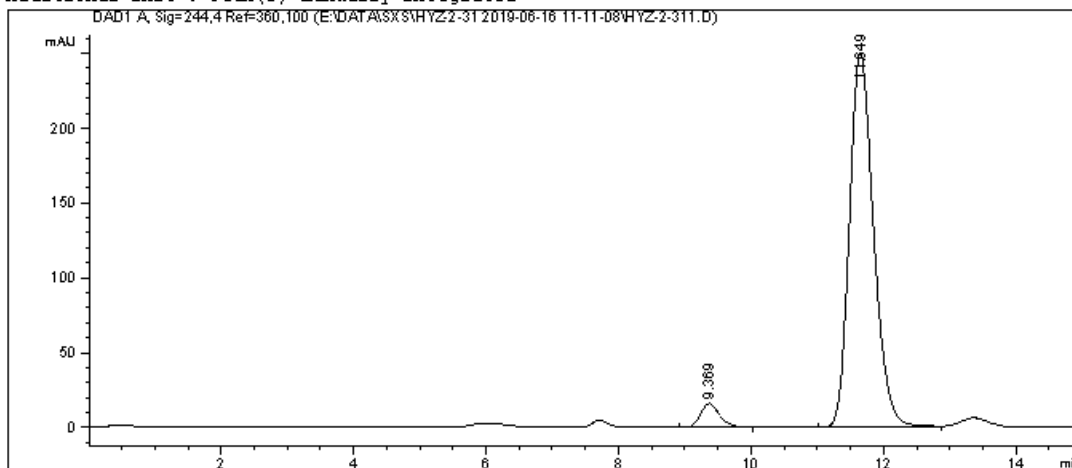


Data File E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\HYZ-2-311.D
 Sample Name: HYZ-2-31-2-2-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   93
Injection Date  : 6/16/2019 11:29:01 AM      Inj       :    1
                                           Inj Volume: 3.000 µl

Acq. Method     : E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\IDH-95-5-244NM-15MIN-3UL-1.OML.M
Last changed    : 6/16/2019 11:25:32 AM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\IDH-95-5-244NM-15MIN-3UL-1.OML.M (
Sequence Method)
Last changed    : 4/30/2020 8:46:30 PM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

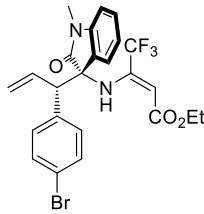
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.369	BB	0.3037	318.22021	15.88726	4.8175
2	11.649	BB	0.3879	6287.26465	249.59384	95.1825

Totals : 6605.48486 265.48110

=====
 *** End of Report ***



(Rac)-5e

Data File E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\HYZ-2-312.D
 Sample Name: HYZ-2-31-1-2-RAC

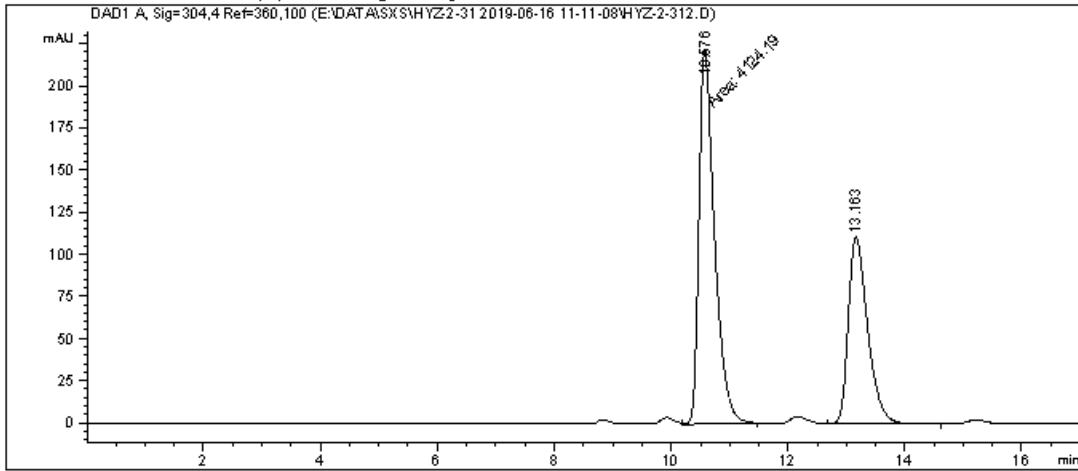
```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                       Location  :   94
Injection Date  : 6/16/2019 11:45:32 AM      Inj       :    1
                                           Inj Volume: 3.000 µl

Acq. Method    : E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\IEH-95-5-304NM-3UL-10MIN1.OML.M
Last changed   : 6/16/2019 12:01:44 PM by SYSTEM
                (modified after loading)

Analysis Method : E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\IEH-95-5-304NM-3UL-10MIN1.OML.M (
Sequence Method)
Last changed   : 4/30/2020 8:46:52 PM by SYSTEM
                (modified after loading)

Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

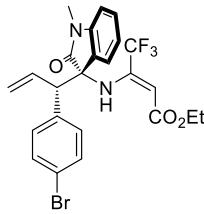
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.576	MM	0.3093	4124.19238	222.23091	61.7878
2	13.163	BB	0.3470	2550.57690	111.05286	38.2122

Totals : 6674.76929 333.28377

*** End of Report ***



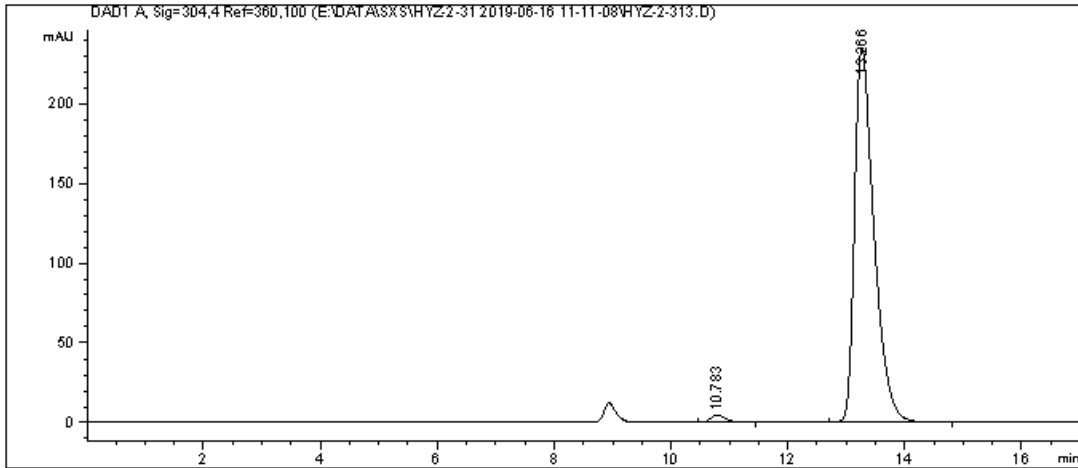
(S,S)-5e

Data File E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\HYZ-2-313.D
 Sample Name: HYZ-2-31-1-2-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                        Location  :   95
Injection Date  : 6/16/2019 12:04:10 PM      Inj       :    1
                                           Inj Volume: 3.000 µl

Acq. Method    : E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\IEH-95-5-304NM-3UL-10MIN1.OML.M
Last changed   : 6/16/2019 12:01:44 PM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-2-31 2019-06-16 11-11-08\IEH-95-5-304NM-3UL-10MIN1.OML.M (
Sequence Method)
Last changed   : 4/30/2020 8:46:52 PM by SYSTEM
(modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

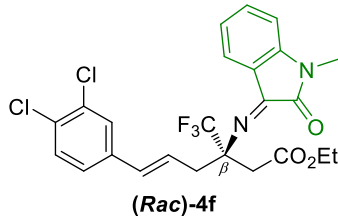
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.783	BB	0.2683	87.39605	4.69143	1.5810
2	13.266	BB	0.3471	5440.58154	235.02042	98.4190

Totals : 5527.97759 239.71184

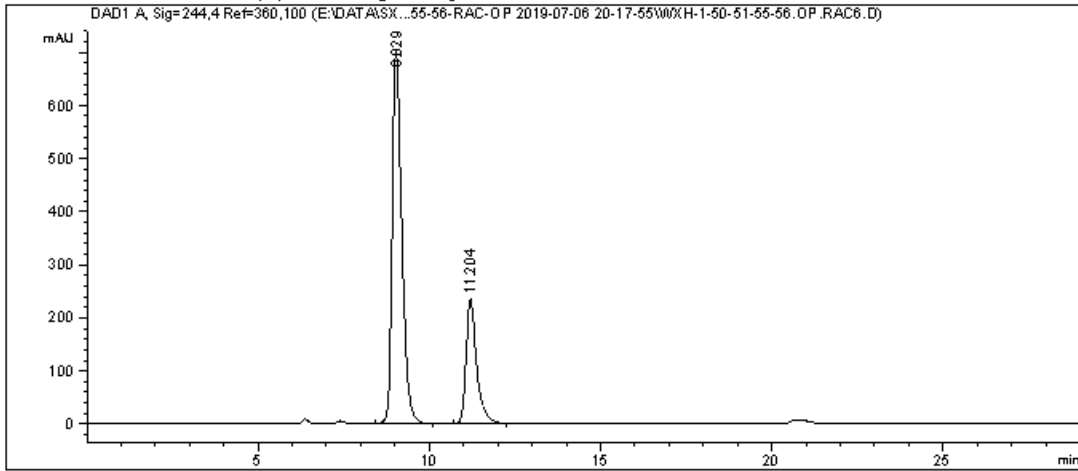
*** End of Report ***



Data File E:\DATA\SXS...-50-51-55-56-RAC-OP 2019-07-06 20-17-55\WXH-1-50-51-55-56.OP.RAC6.D
 Sample Name: WXH-1-56-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    7
Acq. Instrument : 1260                        Location  :   67
Injection Date  : 7/6/2019 10:49:02 PM       Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M
Last changed    : 7/6/2019 9:13:47 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M (Sequence Method)
Last changed    : 5/1/2020 7:53:59 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

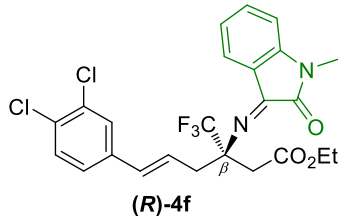
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.029	BB	0.2918	1.36943e4	704.37726	73.4490
2	11.204	BB	0.3193	4950.35596	234.49988	26.5510

Totals : 1.86447e4 938.87714

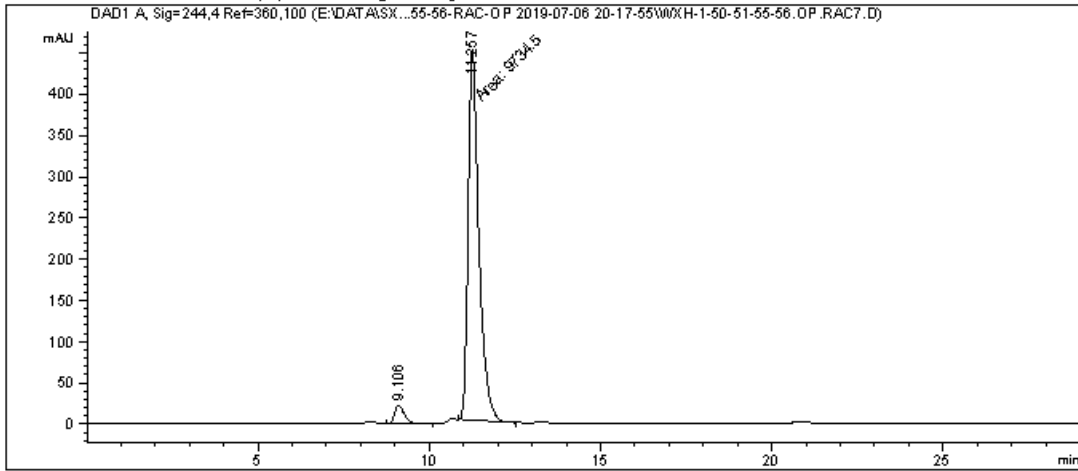
=====
 *** End of Report ***



Data File E:\DATA\SXS...-50-51-55-56-RAC-OP 2019-07-06 20-17-55\WXH-1-50-51-55-56.OP.RAC7.D
 Sample Name: WXH-1-55-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    8
Acq. Instrument : 1260                        Location  :   68
Injection Date  : 7/6/2019 11:19:31 PM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M
Last changed    : 7/6/2019 9:13:47 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M (Sequence Method)
Last changed    : 5/1/2020 7:53:59 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

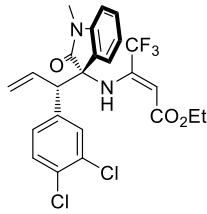
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.106	BB	0.2891	432.42712	22.41537	4.2533
2	11.257	MM	0.3610	9734.50195	449.41144	95.7467

Totals : 1.01669e4 471.82680

=====
 *** End of Report ***

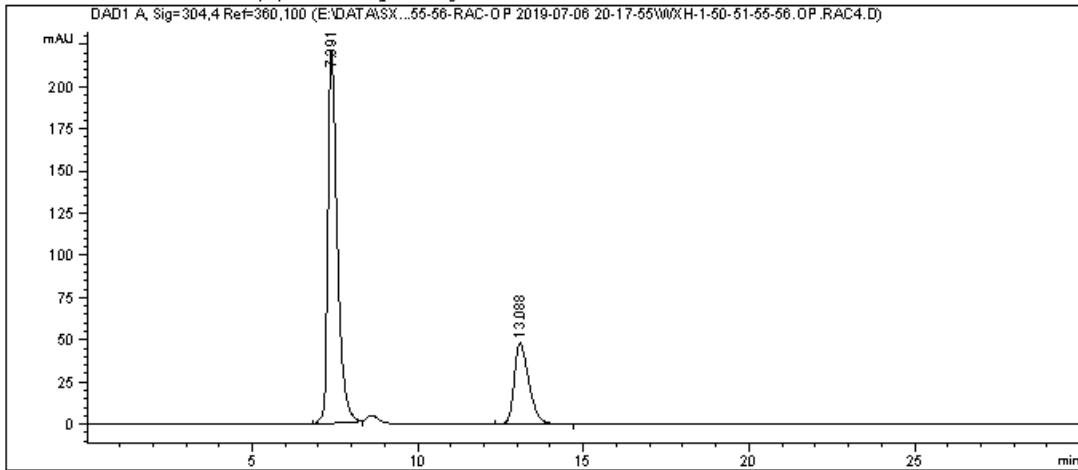


(Rac)-5f

Data File E:\DATA\SX...-50-51-55-56-RAC-OP 2019-07-06 20-17-55\WXH-1-50-51-55-56.OP.RAC4.D
 Sample Name: WXH-1-56-1-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    5
Acq. Instrument : 1260                        Location  :   65
Injection Date  : 7/6/2019 9:45:50 PM        Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IEH-95-5-304MM-3UL
                  -10MIN1.OML.M
Last changed    : 7/6/2019 9:46:22 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IEH-95-5-304MM-3UL
                  -10MIN1.OML.M (Sequence Method)
Last changed    : 5/1/2020 7:53:20 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

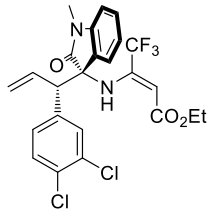
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.391	BB	0.2926	4332.46924	221.11816	74.3098
2	13.088	BB	0.4596	1497.80762	48.32800	25.6902

Totals : 5830.27686 269.44616

*** End of Report ***

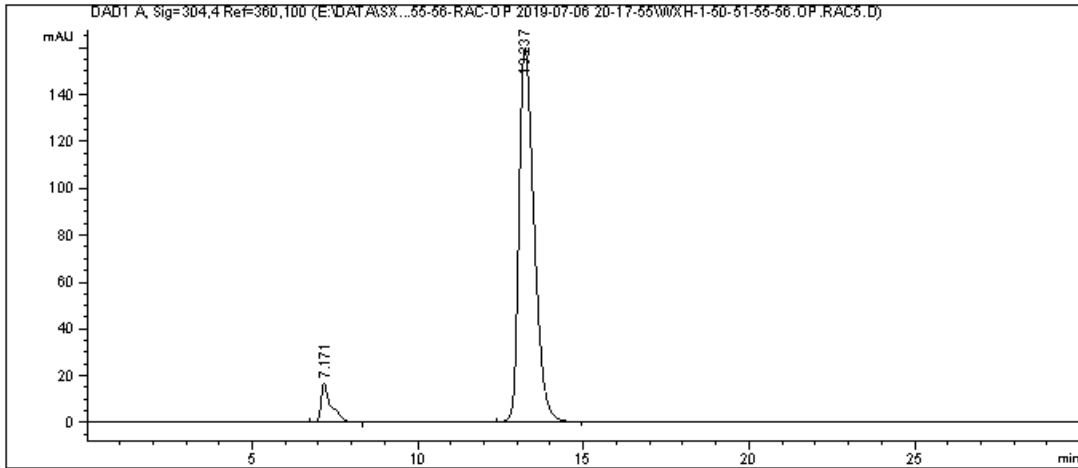


(S,S)-5f

Data File E:\DATA\SX...-50-51-55-56-RAC-OP 2019-07-06 20-17-55\WXH-1-50-51-55-56.OP.RAC5.D
 Sample Name: WXH-1-55-1-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    6
Acq. Instrument : 1260                        Location  :   66
Injection Date  : 7/6/2019 10:17:24 PM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IEH-95-5-304MM-3UL
                  -10MIN1.OML.M
Last changed    : 7/6/2019 9:46:22 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IEH-95-5-304MM-3UL
                  -10MIN1.OML.M (Sequence Method)
Last changed    : 5/4/2020 4:12:23 PM by SYSTEM
                  (modified after loading)
  
```



Area Percent Report

```

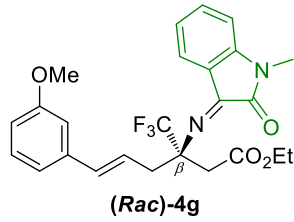
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.171	BB	0.3104	363.64688	16.61030	6.7233
2	13.237	BB	0.4833	5045.13184	159.79453	93.2767

Totals : 5408.77872 176.40483

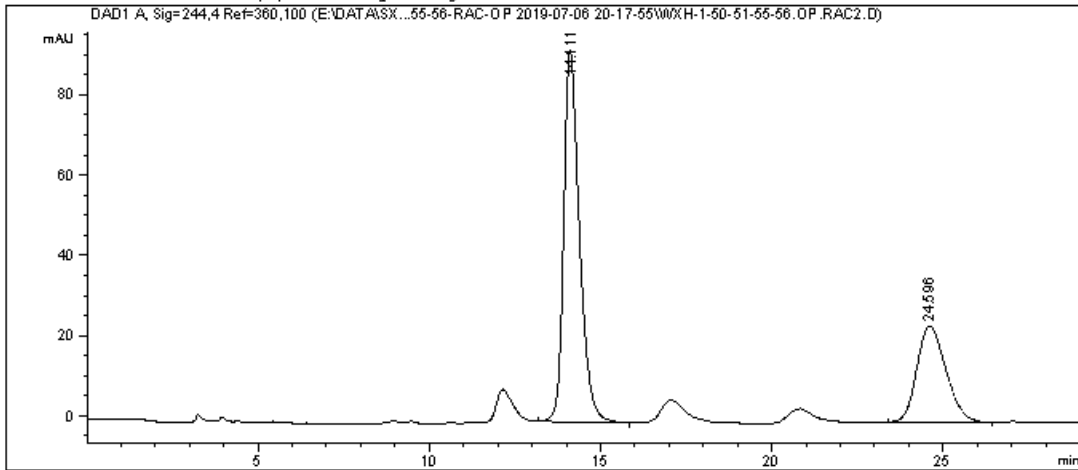
*** End of Report ***



Data File E:\DATA\SXS...-50-51-55-56-RAC-OP 2019-07-06 20-17-55\WXH-1-50-51-55-56.OP.RAC2.D
 Sample Name: WXH-1-51-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                       Location  :   54
Injection Date  : 7/6/2019 8:44:45 PM        Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M
Last changed    : 7/6/2019 9:12:00 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M (Sequence Method)
Last changed    : 5/1/2020 7:52:38 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

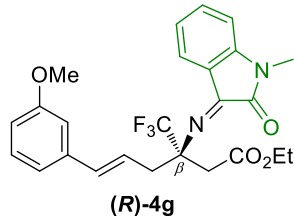
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.111	BB	0.4753	2955.53857	92.62830	67.6364
2	24.596	BB	0.7770	1414.20789	23.91185	32.3636

Totals : 4369.74646 116.54014

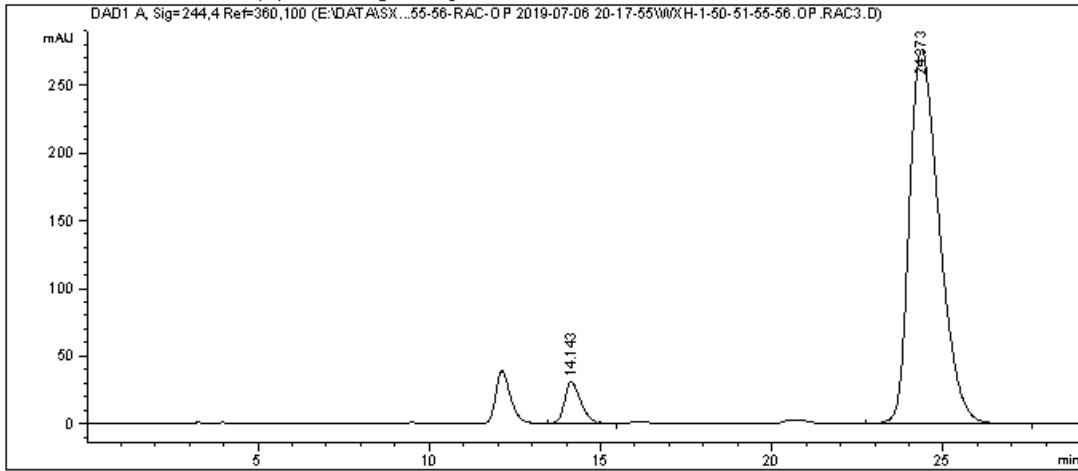
=====
 *** End of Report ***



Data File E:\DATA\SX...-50-51-55-56-RAC-OP 2019-07-06 20-17-55\WXH-1-50-51-55-56.OP.RAC3.D
 Sample Name: WXH-1-50-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                       Location  :   55
Injection Date  : 7/6/2019 9:15:16 PM        Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M
Last changed    : 7/6/2019 9:12:00 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M (Sequence Method)
Last changed    : 5/1/2020 7:52:38 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

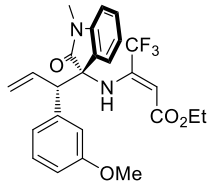
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.143	BB	0.4882	1010.66052	30.77180	5.7045
2	24.373	BB	0.9271	1.67061e4	276.42056	94.2955

Totals : 1.77168e4 307.19236

=====
 *** End of Report ***

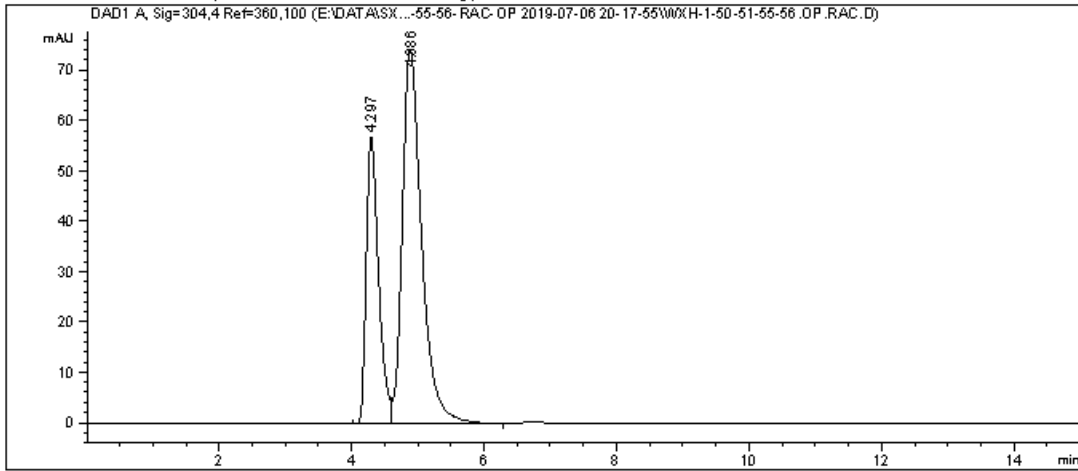


(Rac)-5g

Data File E:\DATA\SX...1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\WXH-1-50-51-55-56.OP.RAC.D
 Sample Name: WXH-1-51-1-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   52
Injection Date  : 7/6/2019 8:19:39 PM        Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IEH-95-5-304MM-3UL
                  -10MIN1.OML.M
Last changed    : 7/6/2019 8:34:03 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IEH-95-5-304MM-3UL
                  -10MIN1.OML.M (Sequence Method)
Last changed    : 5/1/2020 7:49:41 AM by SYSTEM
                  (modified after loading)
  
```



Area Percent Report

```

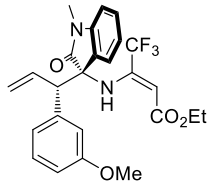
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.297	BV	0.1964	739.41687	56.96014	32.8402
2	4.886	VB	0.3063	1512.14050	74.35287	67.1598

Totals : 2251.55737 131.31300

*** End of Report ***

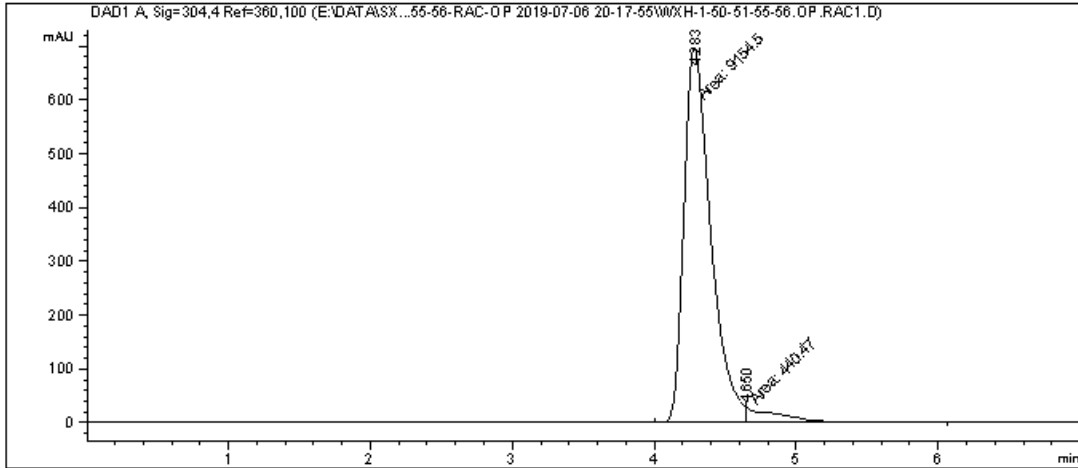


(S,S)-5g

Data File E:\DATA\SX...-50-51-55-56-RAC-OP 2019-07-06 20-17-55\WXH-1-50-51-55-56.OP.RAC1.D
 Sample Name: WXH-1-50-1-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   53
Injection Date  : 7/6/2019 8:36:14 PM        Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IEH-95-5-304NM-3UL
                  -10MIN1.OML.M
Last changed    : 7/6/2019 8:41:57 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-50-51-55-56-RAC-OP 2019-07-06 20-17-55\IEH-95-5-304NM-3UL
                  -10MIN1.OML.M (Sequence Method)
Last changed    : 5/4/2020 4:15:51 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

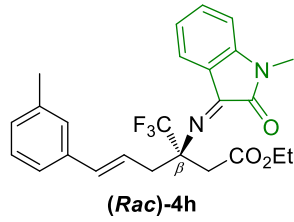
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.283	MF	0.2190	9154.50293	696.55969	95.4094
2	4.650	FM	0.2604	440.47015	28.19441	4.5906

Totals : 9594.97308 724.75410

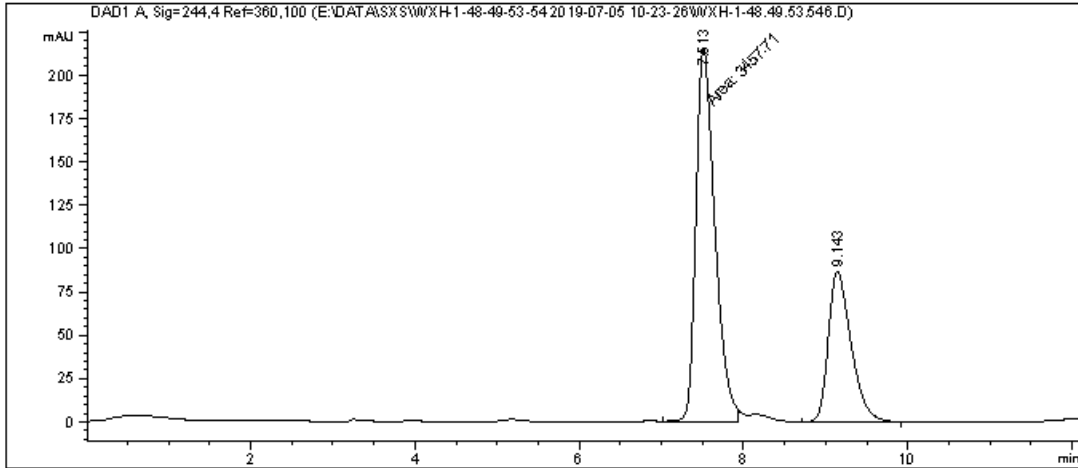
*** End of Report ***



Data File E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\WXH-1-48.49.53.546.D
 Sample Name: WXH-1-54-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    7
Acq. Instrument : 1260                        Location  :   98
Injection Date  : 7/5/2019 1:13:40 PM        Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IDH-95-5-244NM-15MIN-3UL-
                  1.OML.M
Last changed    : 7/5/2019 1:25:46 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IDH-95-5-244NM-15MIN-3UL-
                  1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:19:04 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

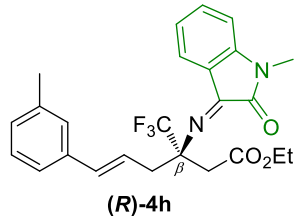
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.513	MF	0.2672	3457.71387	215.65173	67.3110
2	9.143	BB	0.2910	1679.20581	87.07627	32.6890

Totals : 5136.91968 302.72800

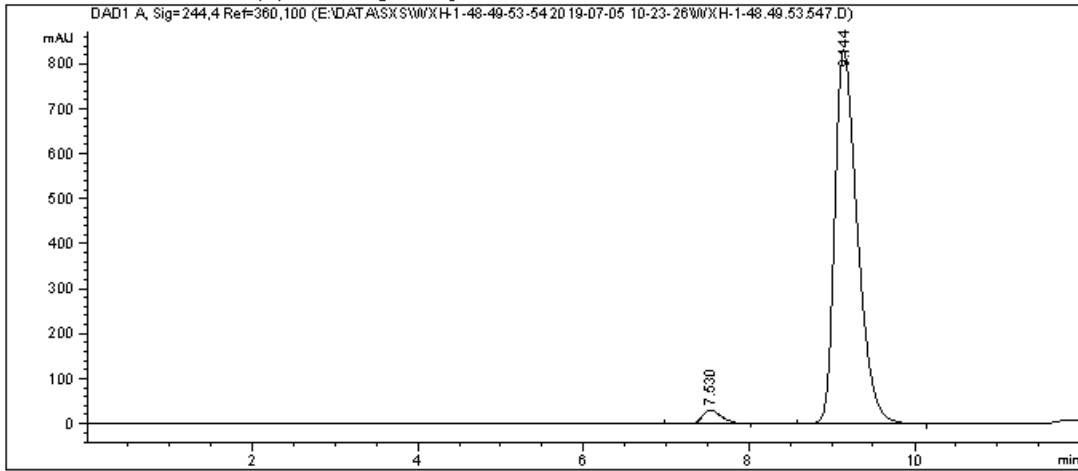
=====
 *** End of Report ***



Data File E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\WXH-1-48.49.53.547.D
 Sample Name: WXH-1-53-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    8
Acq. Instrument : 1260                       Location  :   99
Injection Date  : 7/5/2019 1:27:22 PM        Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IDH-95-5-244NM-15MIN-3UL-
                  1.OML.M
Last changed    : 7/5/2019 1:25:46 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IDH-95-5-244NM-15MIN-3UL-
                  1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:19:04 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

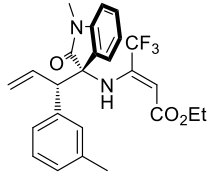
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.530	VB R	0.2437	499.46942	30.73034	3.0523
2	9.144	BB	0.2923	1.58644e4	832.49640	96.9477

Totals : 1.63638e4 863.22674

=====
 *** End of Report ***

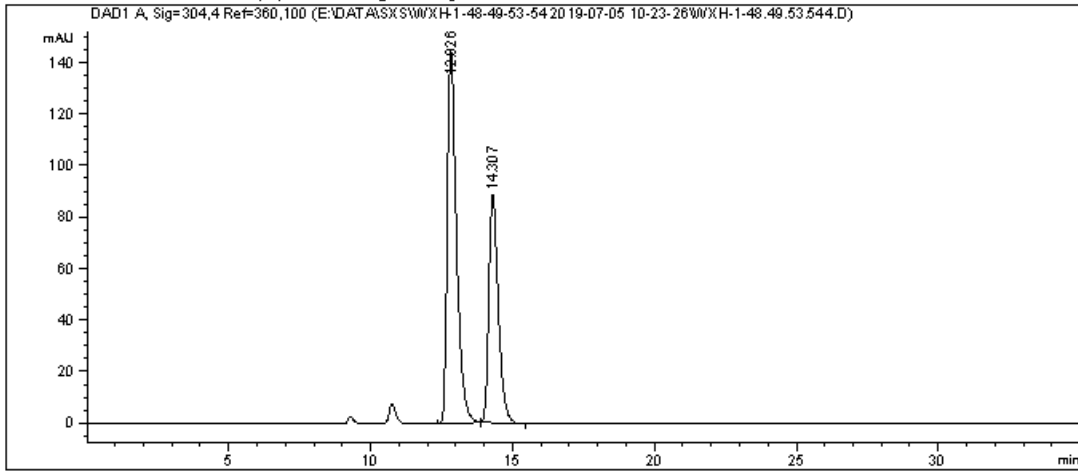


(Rac)-5h

Data File E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\WXH-1-48.49.53.544.D
 Sample Name: WXH-1-54-1-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    5
Acq. Instrument : 1260                        Location  :   96
Injection Date  : 7/5/2019 12:18:40 PM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IEH-95-5-304NM-3UL-10MIN1
                  .OML.M
Last changed    : 7/5/2019 11:41:22 AM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IEH-95-5-304NM-3UL-10MIN1
                  .OML.M (Sequence Method)
Last changed    : 5/1/2020 8:18:40 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

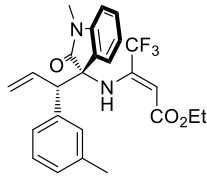
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.826	BB	0.3367	3256.01929	145.13724	61.4996
2	14.307	BB	0.3504	2038.35474	88.26463	38.5004

Totals : 5294.37402 233.40187

*** End of Report ***

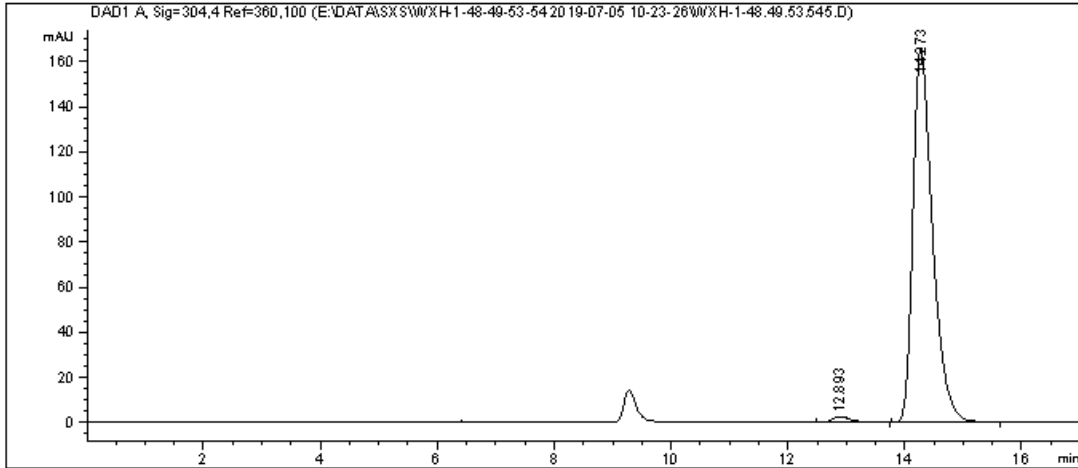


(S,S)-5h

Data File E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\WXH-1-48.49.53.545.D
 Sample Name: WXH-1-53-1-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    6
Acq. Instrument : 1260                        Location  :   97
Injection Date  : 7/5/2019 12:55:06 PM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IEH-95-5-304NM-3UL-10MIN1
                  .OML.M
Last changed    : 7/5/2019 1:11:43 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IEH-95-5-304NM-3UL-10MIN1
                  .OML.M (Sequence Method)
Last changed    : 5/1/2020 8:18:40 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

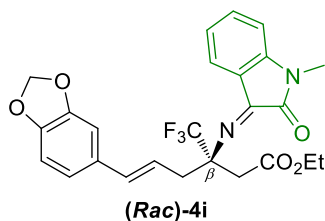
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.893	BB	0.2722	56.45864	2.48379	1.4376
2	14.273	BB	0.3542	3870.89941	165.88258	98.5624

Totals : 3927.35806 168.36638

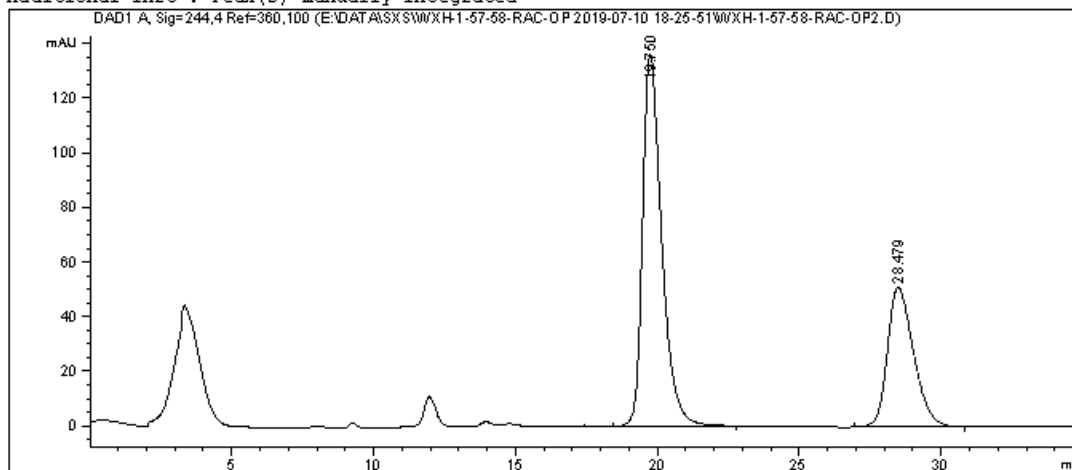
*** End of Report ***



Data File E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\WXH-1-57-58-RAC-OP2.D
 Sample Name: WXH-1-58-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                        Location  :   13
Injection Date  : 7/10/2019 7:36:08 PM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\IDH-95-5-244NM-15MIN-3UL
                  -1.OML.M
Last changed    : 7/10/2019 7:40:14 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\IDH-95-5-244NM-15MIN-3UL
                  -1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:01:57 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

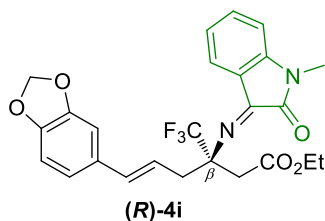
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	19.750	BB	0.6983	6397.48926	136.38509	66.1765
2	28.479	BB	0.8655	3269.81909	51.10051	33.8235

Totals : 9667.30835 187.48559

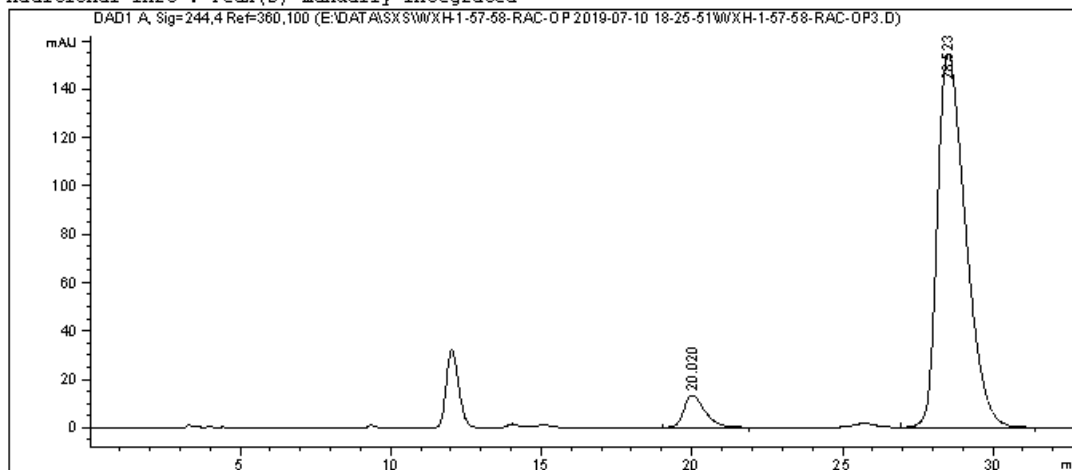
=====
 *** End of Report ***



Data File E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\WXH-1-57-58-RAC-OP3.D
 Sample Name: WXH-1-57-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                       Location  :   14
Injection Date  : 7/10/2019 8:12:38 PM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\IDH-95-5-244NM-15MIN-3UL
                  -1.OML.M
Last changed    : 7/10/2019 8:45:36 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\IDH-95-5-244NM-15MIN-3UL
                  -1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:01:57 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

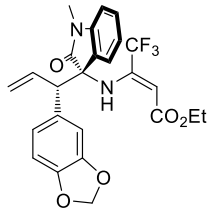
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	20.020	BB	0.6215	656.34778	13.46885	6.1171
2	28.523	BB	0.9490	1.00734e4	154.64183	93.8829

Totals : 1.07297e4 168.11068

=====
 *** End of Report ***

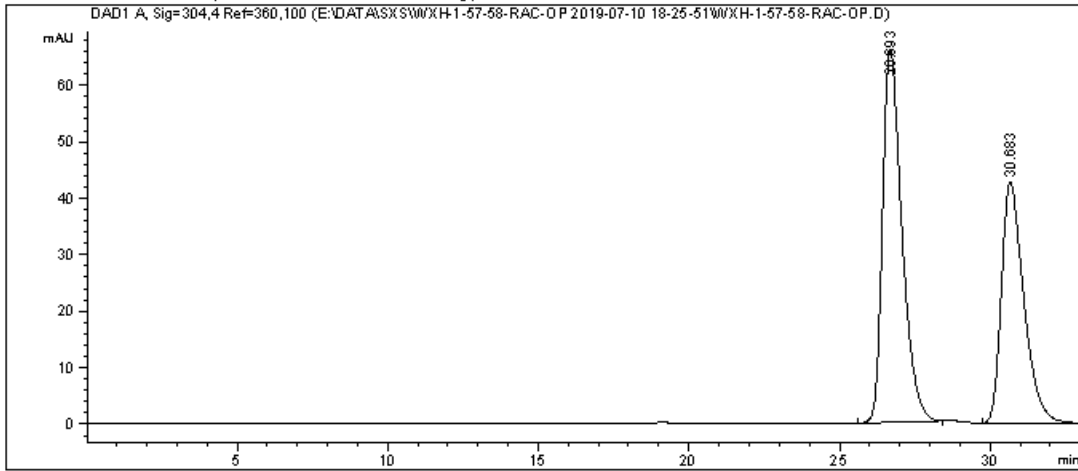


(Rac)-5i

Data File E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\WXH-1-57-58-RAC-OP.D
 Sample Name: WXH-1-58-1-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   11
Injection Date  : 7/10/2019 6:27:16 PM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\IEH-95-5-304NM-3UL-
                  10MIN1.OML.M
Last changed    : 7/10/2019 6:59:10 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\IEH-95-5-304NM-3UL-
                  10MIN1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:01:35 AM by SYSTEM
                  (modified after loading)
  
```



=====
 Area Percent Report
 =====

```

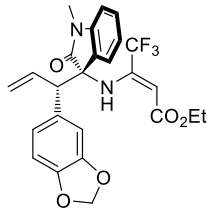
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	26.693	BB	0.6525	2957.78296	66.04889	57.3746
2	30.683	BBA	0.7198	2197.42676	42.66912	42.6254

Totals : 5155.20972 108.71801

=====
 *** End of Report ***

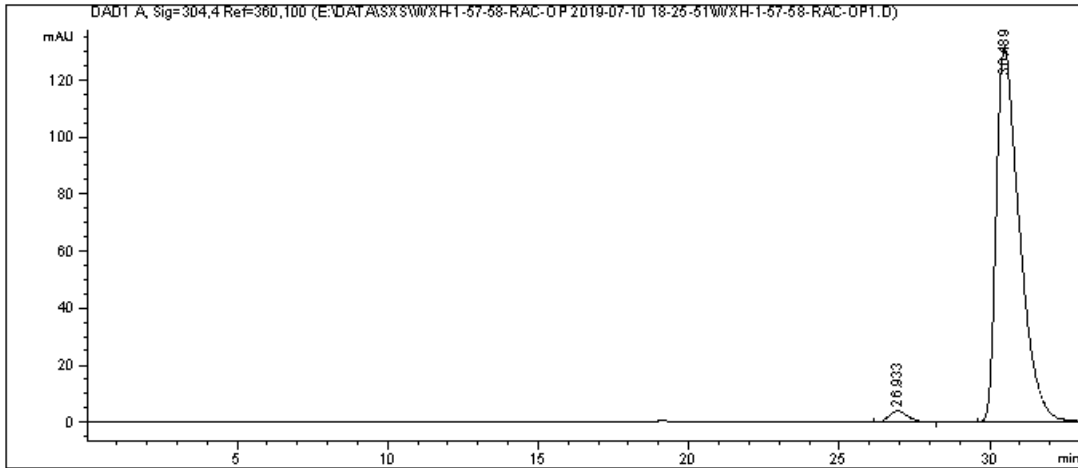


(S,S)-5i

Data File E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\WXH-1-57-58-RAC-OP1.D
 Sample Name: WXH-1-57-1-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   12
Injection Date  : 7/10/2019 7:01:41 PM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\IEH-95-5-304NM-3UL-
                  10MIN1.OML.M
Last changed    : 7/10/2019 6:59:10 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-57-58-RAC-OP 2019-07-10 18-25-51\IEH-95-5-304NM-3UL-
                  10MIN1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:01:35 AM by SYSTEM
                  (modified after loading)
  
```



=====
 Area Percent Report
 =====

```

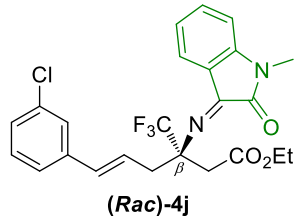
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	26.933	BB	0.5178	176.21460	4.00124	2.4461
2	30.489	BBA	0.7773	7027.54932	131.11972	97.5539

Totals : 7203.76392 135.12096

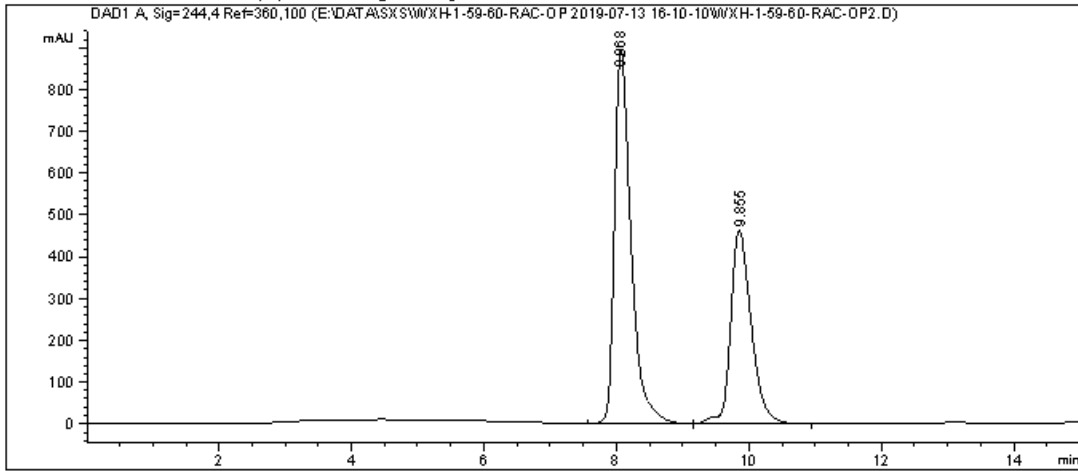
=====
 *** End of Report ***



Data File E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\WXH-1-59-60-RAC-OP2.D
 Sample Name: WXH-1-60-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                       Location  :   33
Injection Date  : 7/13/2019 5:14:41 PM       Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\IDH-95-5-244NM-15MIN-3UL
                  -1.OML.M
Last changed    : 7/13/2019 4:10:16 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\IDH-95-5-244NM-15MIN-3UL
                  -1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:06:41 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

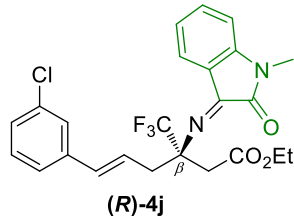
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.068	BB	0.2624	1.55235e4	894.97412	60.8736
2	9.855	BB	0.3294	9977.70801	463.03397	39.1264

Totals : 2.55012e4 1358.00809

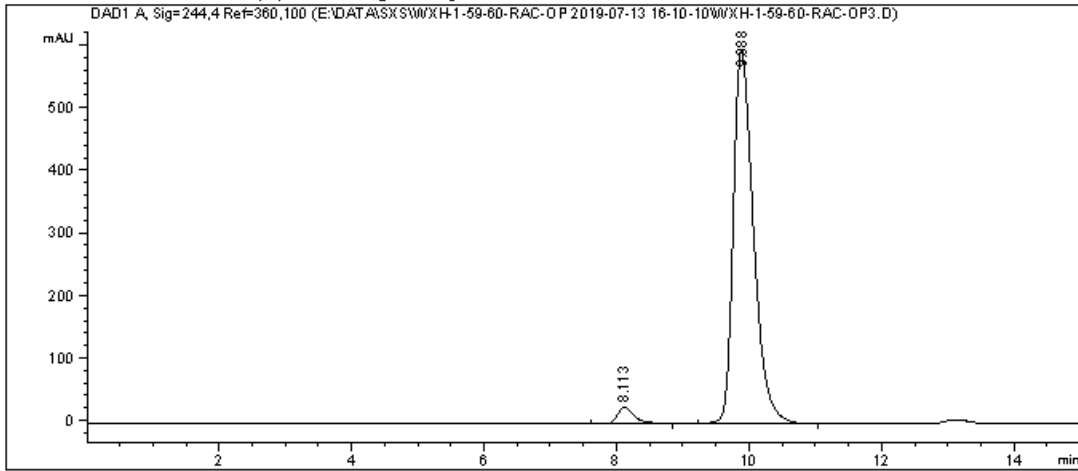
=====
 *** End of Report ***



Data File E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\WXH-1-59-60-RAC-OP3.D
 Sample Name: WXH-1-59-2-OP-1

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                        Location  :   34
Injection Date  : 7/13/2019 5:31:09 PM       Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\IDH-95-5-244NM-15MIN-3UL
                  -1.OML.M
Last changed    : 7/13/2019 4:10:16 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\IDH-95-5-244NM-15MIN-3UL
                  -1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:06:41 AM by SYSTEM
                  (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

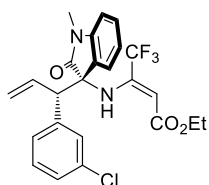
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.113	BB	0.2642	455.55429	25.77220	3.4733
2	9.888	BB	0.3229	1.26604e4	598.28912	96.5267

Totals : 1.31160e4 624.06132

=====
 *** End of Report ***

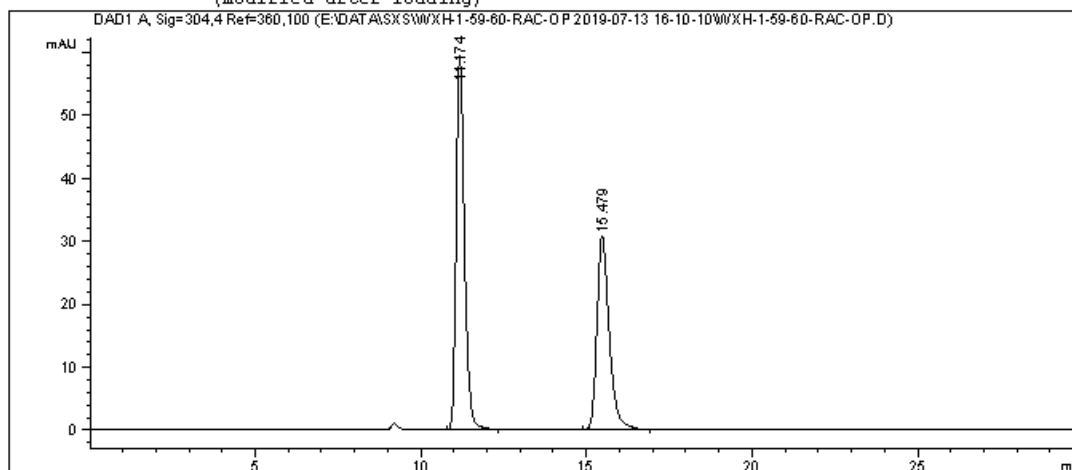


(Rac)-5j

Data File E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\WXH-1-59-60-RAC-OP.D
 Sample Name: WXH-1-60-1-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   31
Injection Date  : 7/13/2019 4:11:44 PM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\IEH-95-5-304NM-3UL-
                  10MIN1.OML.M
Last changed    : 7/13/2019 4:11:54 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\IEH-95-5-304NM-3UL-
                  10MIN1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:06:19 AM by SYSTEM
                  (modified after loading)
  
```



=====
 Area Percent Report
 =====

```

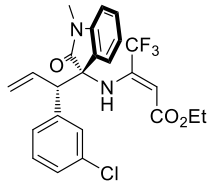
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.174	BB	0.2676	1038.12683	59.47274	56.7270
2	15.479	BB	0.3829	791.91187	30.70556	43.2730

Totals : 1830.03870 90.17830

=====
 *** End of Report ***

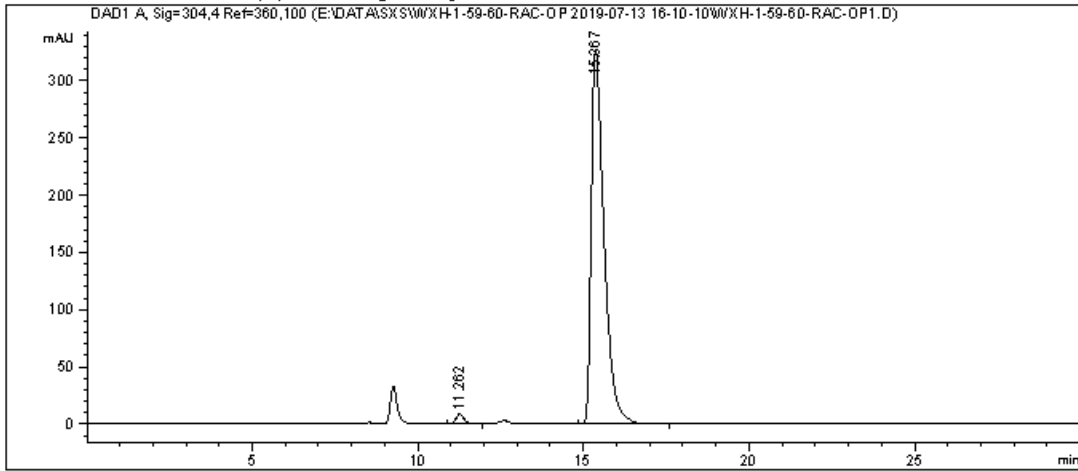


(S,S)-5j

Data File E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\WXH-1-59-60-RAC-OP1.D
 Sample Name: WXH-1-59-1-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   32
Injection Date  : 7/13/2019 4:43:08 PM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\IEH-95-5-304NM-3UL-
                  10MIN1.OML.M
Last changed    : 7/13/2019 4:11:54 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-59-60-RAC-OP 2019-07-13 16-10-10\IEH-95-5-304NM-3UL-
                  10MIN1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:06:19 AM by SYSTEM
                  (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

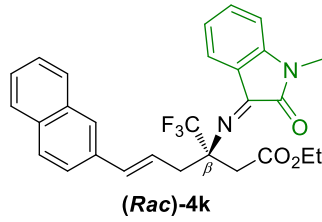
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.262	BB	0.2586	148.20619	8.66217	1.6492
2	15.367	BB	0.4032	8838.26563	327.17953	98.3508

Totals : 8986.47182 335.84170

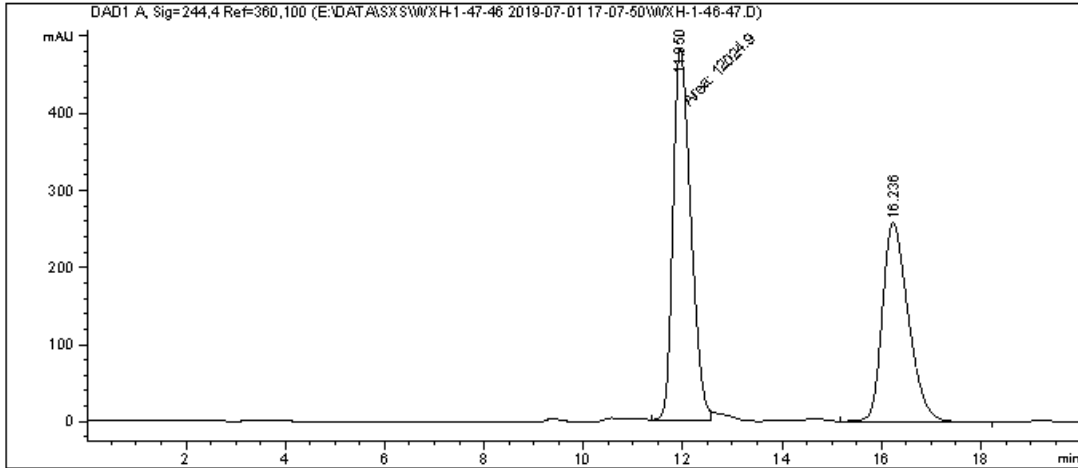
=====
 *** End of Report ***



Data File E:\DATA\SXS\WXH-1-47-46 2019-07-01 17-07-50\WXH-1-46-47.D
 Sample Name: WXH-1-47-2-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   94
Injection Date  : 7/1/2019 5:09:20 PM        Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\WHM\WXH-1-47-46 2019-07-01 17-07-50\IDH-95-5-244NM-15MIN-3UL-1.OML.
                                           M
Last changed    : 7/1/2019 5:20:38 PM by SYSTEM
                                           (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-47-46 2019-07-01 17-07-50\IDH-95-5-244NM-15MIN-3UL-1.OML.
                                           M (Sequence Method)
Last changed    : 5/1/2020 10:25:00 AM by SYSTEM
                                           (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

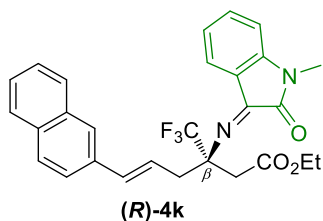
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.950	MF	0.4154	1.20249e4	482.44287	56.0731
2	16.236	BB	0.5580	9420.13477	257.97562	43.9269

Totals : 2.14450e4 740.41849

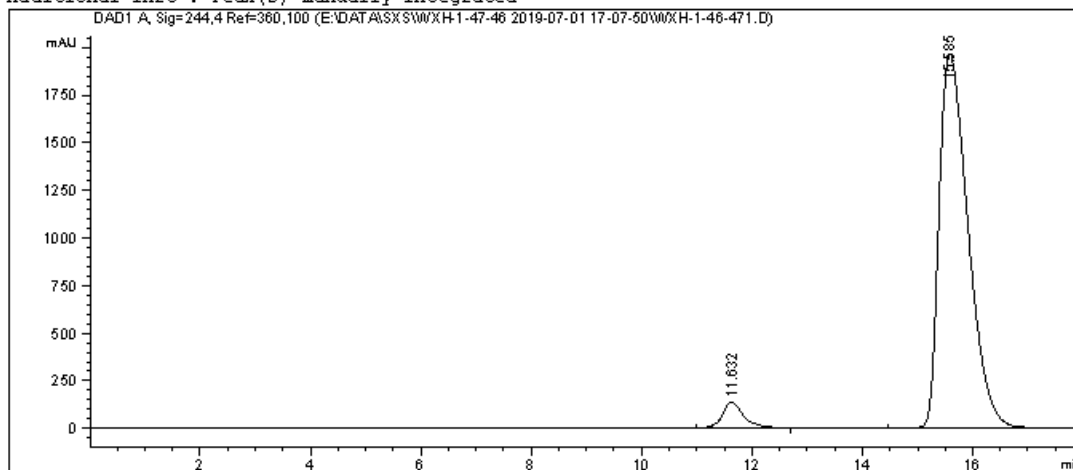
=====
 *** End of Report ***



Data File E:\DATA\SXS\WXH-1-47-46 2019-07-01 17-07-50\WXH-1-46-471.D
 Sample Name: WXH-1-46-2-2-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   95
Injection Date  : 7/1/2019 5:30:45 PM        Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\WHM\WXH-1-47-46 2019-07-01 17-07-50\IDH-95-5-244NM-15MIN-3UL-1.OML.
                                           M
Last changed    : 7/1/2019 5:48:14 PM by SYSTEM
                                           (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-47-46 2019-07-01 17-07-50\IDH-95-5-244NM-15MIN-3UL-1.OML.
                                           M (Sequence Method)
Last changed    : 5/1/2020 8:10:49 AM by SYSTEM
                                           (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

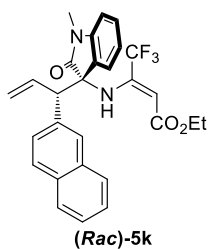
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.632	BB	0.4005	3804.52930	138.92293	5.0384
2	15.585	BB	0.5745	7.17058e4	1966.00439	94.9616

Totals : 7.55103e4 2104.92732

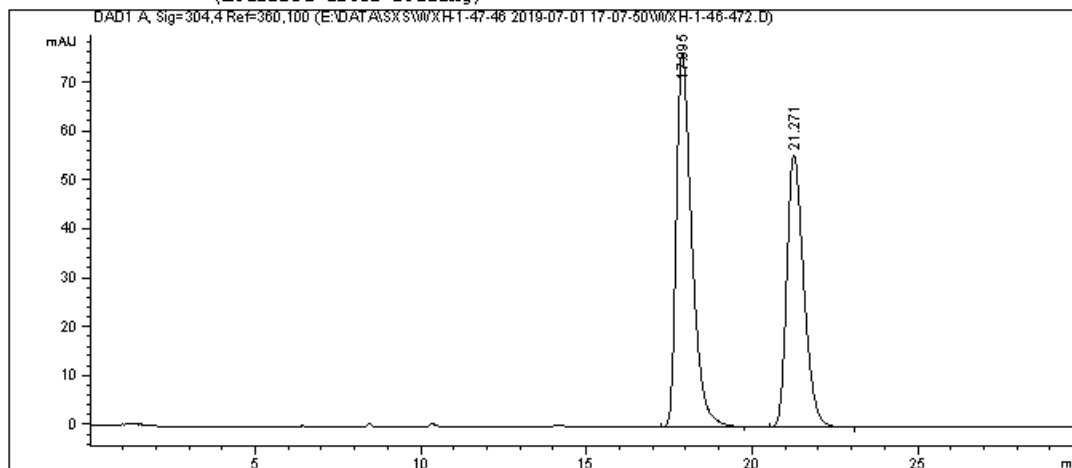
=====
 *** End of Report ***



Data File E:\DATA\SXS\WXH-1-47-46 2019-07-01 17-07-50\WXH-1-46-472.D
 Sample Name: WXH-1-47-1-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                       Location  :   92
Injection Date  : 7/1/2019 5:50:17 PM        Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\WHM\WXH-1-47-46 2019-07-01 17-07-50\IEH-95-5-304NM-3UL-10MIN1.OML.M
Last changed    : 7/1/2019 6:05:22 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-47-46 2019-07-01 17-07-50\IEH-95-5-304NM-3UL-10MIN1.OML.M
                  (Sequence Method)
Last changed    : 5/1/2020 8:11:11 AM by SYSTEM
                  (modified after loading)
=====
  
```



=====
 Area Percent Report
 =====

```

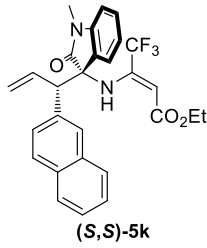
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.895	BB	0.4906	2492.41821	76.41087	55.6613
2	21.271	BB	0.5353	1985.41235	55.63591	44.3387

Totals : 4477.83057 132.04678

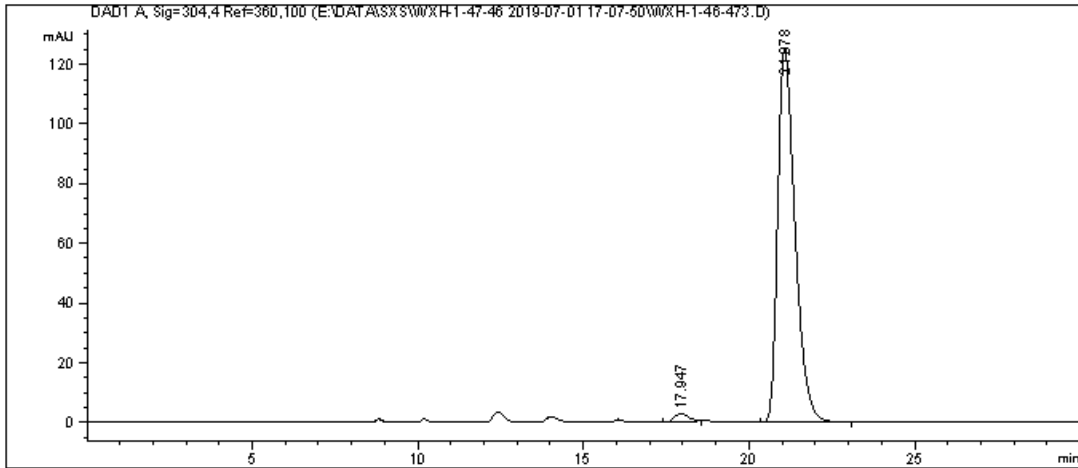
=====
 *** End of Report ***



Data File E:\DATA\SXS\WXH-1-47-46 2019-07-01 17-07-50\WXH-1-46-473.D
 Sample Name: WXH-1-46-1-2-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                        Location  :   93
Injection Date  : 7/1/2019 6:21:48 PM        Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\WHM\WXH-1-47-46 2019-07-01 17-07-50\IEH-95-5-304NM-3UL-10MIN1.OML.M
Last changed    : 7/1/2019 6:05:22 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-47-46 2019-07-01 17-07-50\IEH-95-5-304NM-3UL-10MIN1.OML.M
                 (Sequence Method)
Last changed    : 5/1/2020 8:11:11 AM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

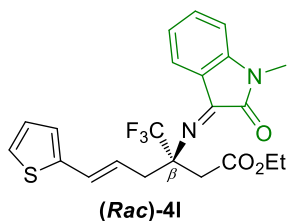
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.947	BB	0.3477	80.49585	2.76442	1.7330
2	21.078	BB	0.5531	4564.34473	125.55520	98.2670

Totals : 4644.84058 128.31962

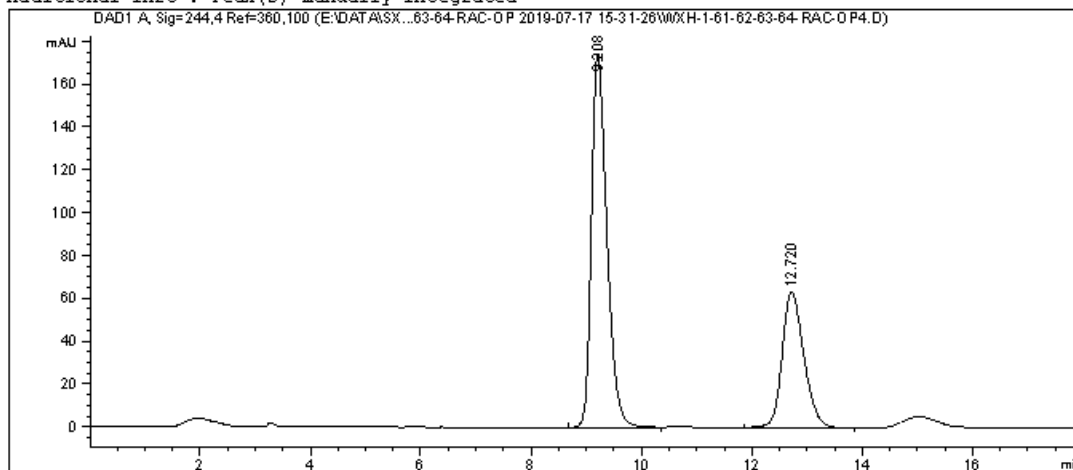
=====
 *** End of Report ***



Data File E:\DATA\SXS...-61-62-63-64-RAC-OP 2019-07-17 15-31-26\WXH-1-61-62-63-64-RAC-OP4.D
 Sample Name: WXH-1-64-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    5
Acq. Instrument : 1260                        Location  :   45
Injection Date  : 7/17/2019 4:47:06 PM       Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-61-62-63-64-RAC-OP 2019-07-17 15-31-26\IDH-95-5-244NM-
                  15MIN-3UL-1.0ML.M
Last changed    : 7/17/2019 5:04:11 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-61-62-63-64-RAC-OP 2019-07-17 15-31-26\IDH-95-5-244NM-
                  15MIN-3UL-1.0ML.M (Sequence Method)
Last changed    : 5/1/2020 8:24:49 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

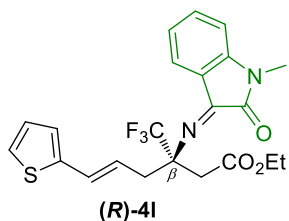
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.208	BB	0.2966	3405.18237	174.55240	66.1137
2	12.720	BB	0.4185	1745.31531	63.73630	33.8863

Totals : 5150.49768 238.28870

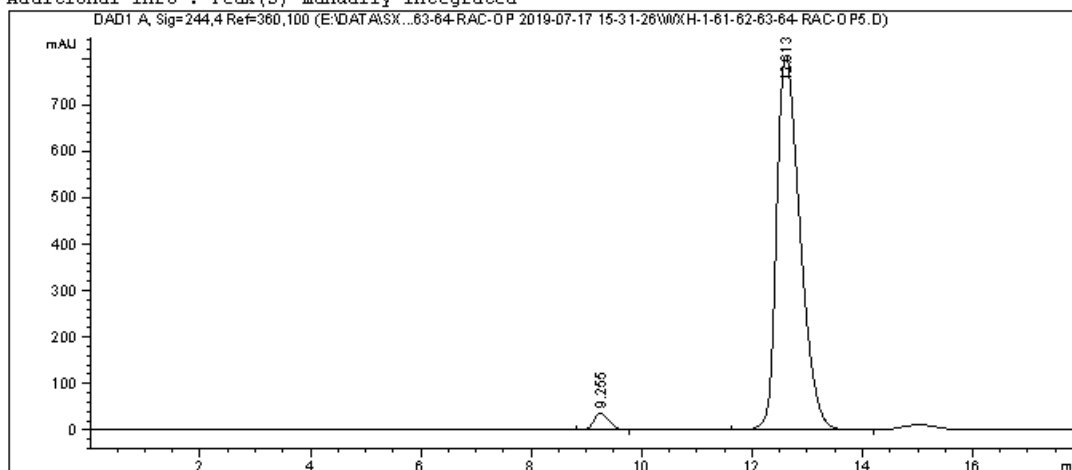
=====
 *** End of Report ***



Data File E:\DATA\SXS...-61-62-63-64-RAC-OP 2019-07-17 15-31-26\WXH-1-61-62-63-64-RAC-OP5.D
 Sample Name: WXH-1-63-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    6
Acq. Instrument : 1260                        Location  :   46
Injection Date  : 7/17/2019 5:06:37 PM       Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-61-62-63-64-RAC-OP 2019-07-17 15-31-26\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M
Last changed    : 7/17/2019 5:04:11 PM by SYSTEM
Analysis Method : E:\DATA\SXS\WXH-1-61-62-63-64-RAC-OP 2019-07-17 15-31-26\IDH-95-5-244NM-
                  15MIN-3UL-1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:24:49 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

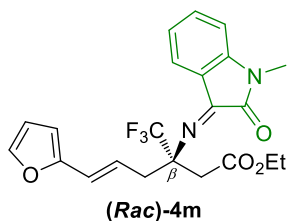
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.255	BB	0.2880	709.63965	37.28816	2.8989
2	12.613	BB	0.4573	2.37696e4	805.39691	97.1011

Totals : 2.44793e4 842.68507

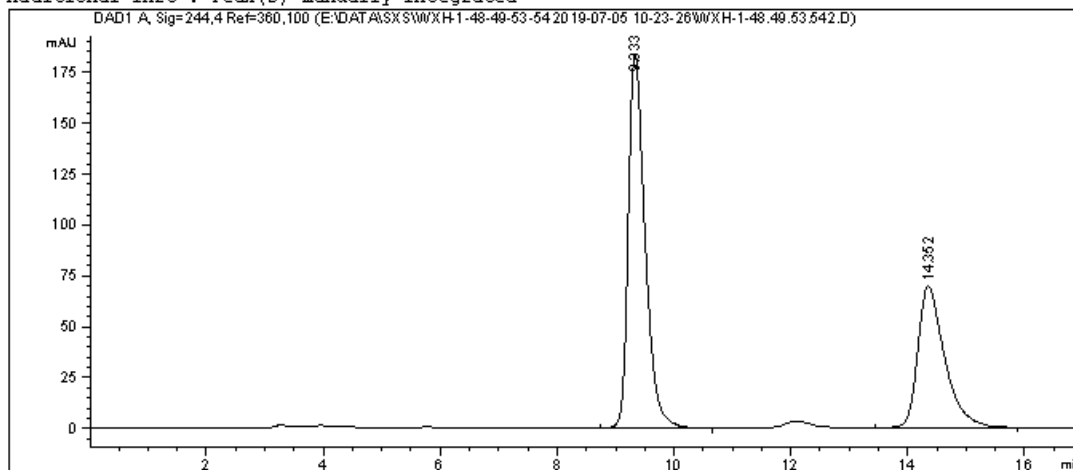
=====
 *** End of Report ***



Data File E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\WXH-1-48.49.53.542.D
 Sample Name: WXH-1-49-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                        Location  :   94
Injection Date  : 7/5/2019 11:42:45 AM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IDH-95-5-244NM-15MIN-3UL-
                  1.OML.M
Last changed    : 7/5/2019 11:58:10 AM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IDH-95-5-244NM-15MIN-3UL-
                  1.OML.M (Sequence Method)
Last changed    : 5/1/2020 8:18:08 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

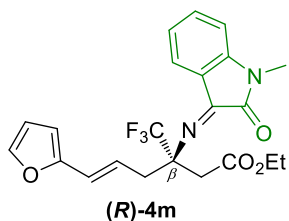
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.333	BB	0.2998	3673.32935	184.06982	62.2240
2	14.352	BB	0.4702	2230.06812	69.71275	37.7760

Totals : 5903.39746 253.78257

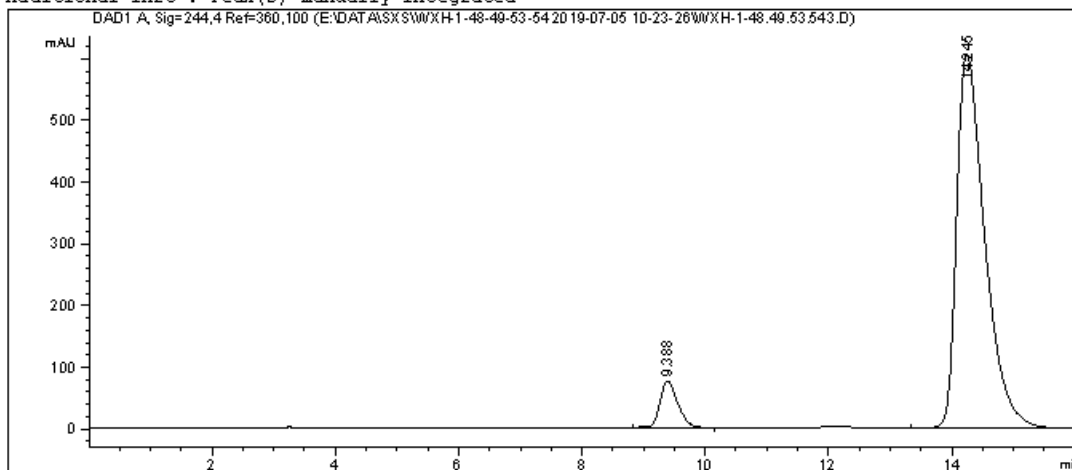
=====
 *** End of Report ***



Data File E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\WXH-1-48.49.53.543.D
 Sample Name: WXH-1-48-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                        Location  :   95
Injection Date  : 7/5/2019 12:01:07 PM       Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method    : E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IDH-95-5-244NM-15MIN-3UL-1.OML.M
Last changed   : 7/5/2019 12:17:14 PM by SYSTEM
                (modified after loading)
Analysis Method: E:\DATA\SXS\WXH-1-48-49-53-54 2019-07-05 10-23-26\IDH-95-5-244NM-15MIN-3UL-1.OML.M (Sequence Method)
Last changed   : 5/1/2020 8:18:08 AM by SYSTEM
                (modified after loading)
Additional Info: Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

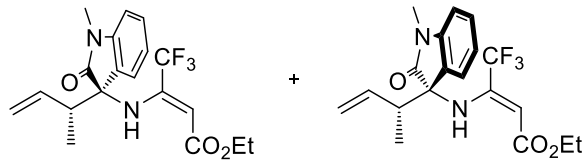
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.388	BB	0.3105	1553.29333	75.97486	7.4579
2	14.245	BBA	0.4811	1.92742e4	607.58411	92.5421

Totals : 2.08275e4 683.55897

=====
 *** End of Report ***

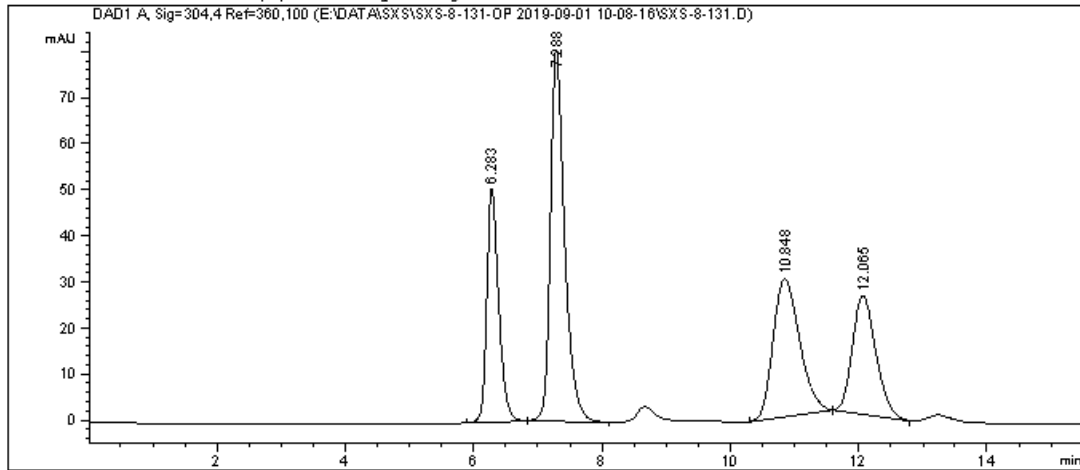


5n (minor + major)

Data File E:\DATA\SXS\SXS-8-131-OP 2019-09-01 10-08-16\SXS-8-131.D
 Sample Name: WXH-1-62-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   92
Injection Date  : 9/1/2019 10:09:43 AM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-131-OP 2019-09-01 10-08-16\IDH-95-5-304NM-3UL-10MIN1.OML.
                                           M
Last changed    : 9/1/2019 10:25:13 AM by SYSTEM
                                           (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-8-131-OP 2019-09-01 10-08-16\IDH-95-5-304NM-3UL-10MIN1.OML.
                                           M (Sequence Method)
Last changed    : 5/1/2020 8:28:14 AM by SYSTEM
                                           (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

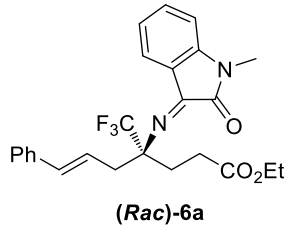
```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.283	BB	0.1959	651.82239	50.74536	19.1742
2	7.288	BB	0.2284	1232.36560	80.59422	36.2515
3	10.848	BB	0.4295	860.33588	29.92016	25.3078
4	12.065	BB	0.3803	654.96112	25.78964	19.2665

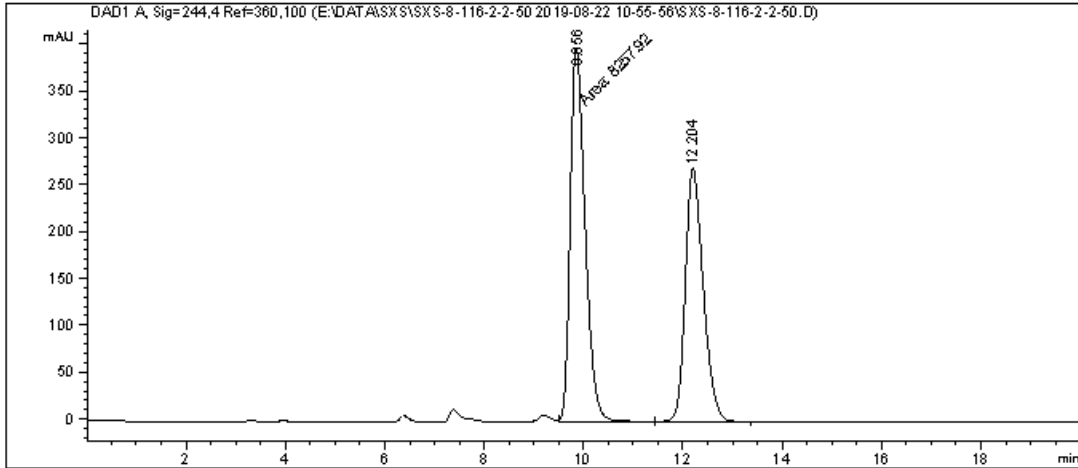
Totals : 3399.48499 187.04937



Data File E:\DATA\SXS\SXS-8-116-2-2-50 2019-08-22 10-55-56\SXS-8-116-2-2-50.D
 Sample Name: SXS-8-116-2-2-50

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   63
Injection Date  : 8/22/2019 10:57:27 AM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-116-2-2-50 2019-08-22 10-55-56\IDH-95-5-244NM-30MIN-3UL-1
                                           .OML.M
Last changed    : 8/22/2019 10:56:26 AM by SYSTEM
                                           (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-8-116-2-2-50 2019-08-22 10-55-56\IDH-95-5-244NM-30MIN-3UL-1
                                           .OML.M (Sequence Method)
Last changed    : 5/1/2020 8:39:55 AM by SYSTEM
                                           (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

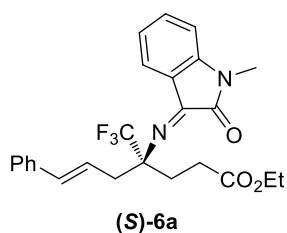
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.856	FM	0.3455	8257.92480	398.30194	54.9006
2	12.204	BB	0.3792	6783.67188	269.91629	45.0994

Totals : 1.50416e4 668.21823

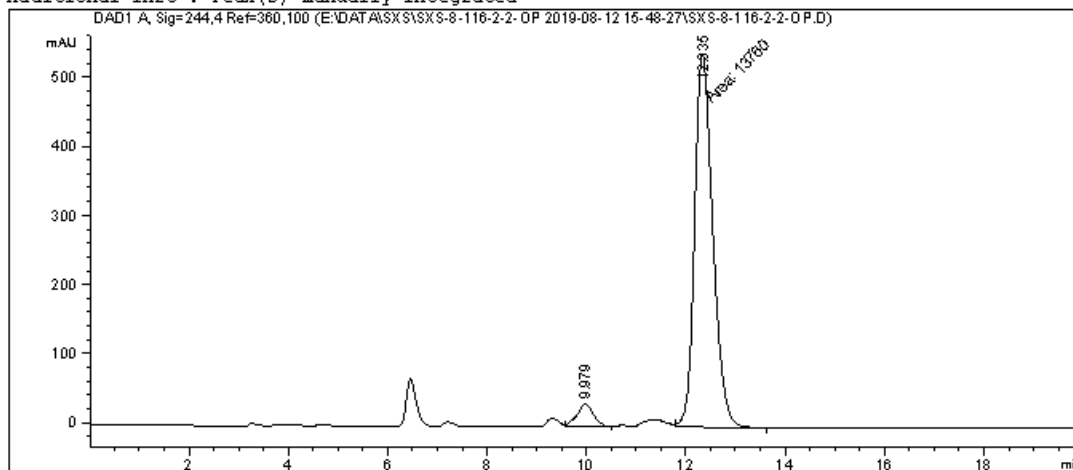
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-8-116-2-2-OP 2019-08-12 15-48-27\SXS-8-116-2-2-OP.D
 Sample Name: SXS-8-116-2-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   63
Injection Date  : 8/12/2019 3:50:01 PM       Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-116-2-2-OP 2019-08-12 15-48-27\IDH-95-5-244NM-30MIN-3UL-1
                  .OML.M
Last changed    : 8/12/2019 3:49:35 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-8-116-2-2-OP 2019-08-12 15-48-27\IDH-95-5-244NM-30MIN-3UL-1
                  .OML.M (Sequence Method)
Last changed    : 5/1/2020 8:39:33 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

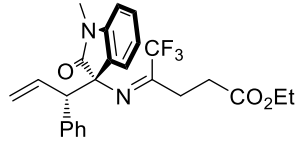
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=244,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.979	VB	0.3426	766.76849	32.70149	5.2783
2	12.335	FM	0.4238	1.37600e4	541.08447	94.7217

Totals : 1.45268e4 573.78596

=====
 *** End of Report ***

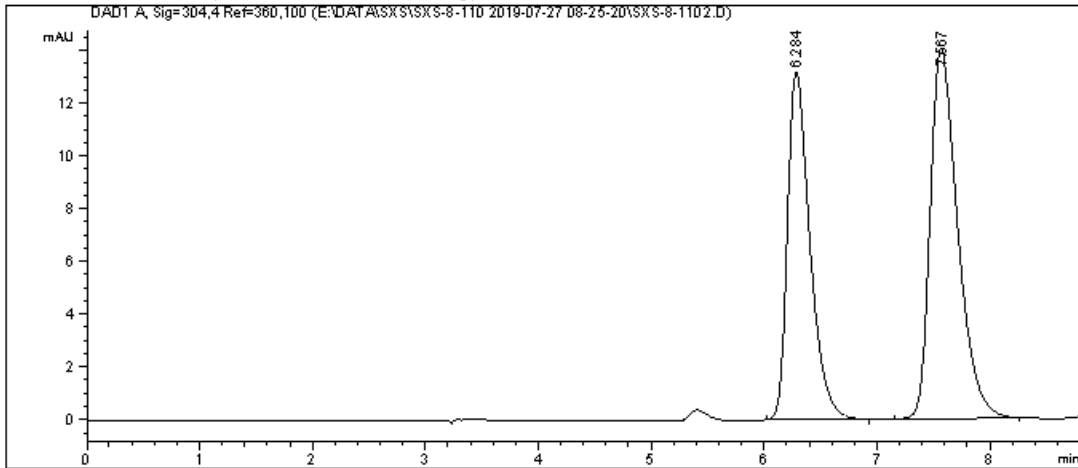


(Rac)-7a

Data File E:\DATA\SXS\SXS-8-110 2019-07-27 08-25-20\SXS-8-1102.D
 Sample Name: WXH-1-69-1-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                       Location  :   94
Injection Date  : 7/27/2019 9:29:34 AM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-110 2019-07-27 08-25-20\IEH-95-5-304NM-3UL-30MIN1.OML.M
Last changed    : 7/27/2019 8:25:21 AM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-8-110 2019-07-27 08-25-20\IEH-95-5-304NM-3UL-30MIN1.OML.M (
Sequence Method)
Last changed    : 5/4/2020 4:07:02 PM by SYSTEM
(modified after loading)
  
```



=====
 Area Percent Report
 =====

```

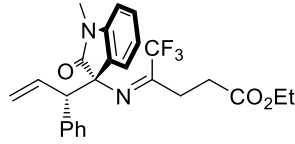
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.284	BB	0.2069	181.77576	13.17869	43.2828
2	7.567	BB	0.2518	238.19666	14.04922	56.7172

Totals : 419.97241 27.22791

=====
 *** End of Report ***

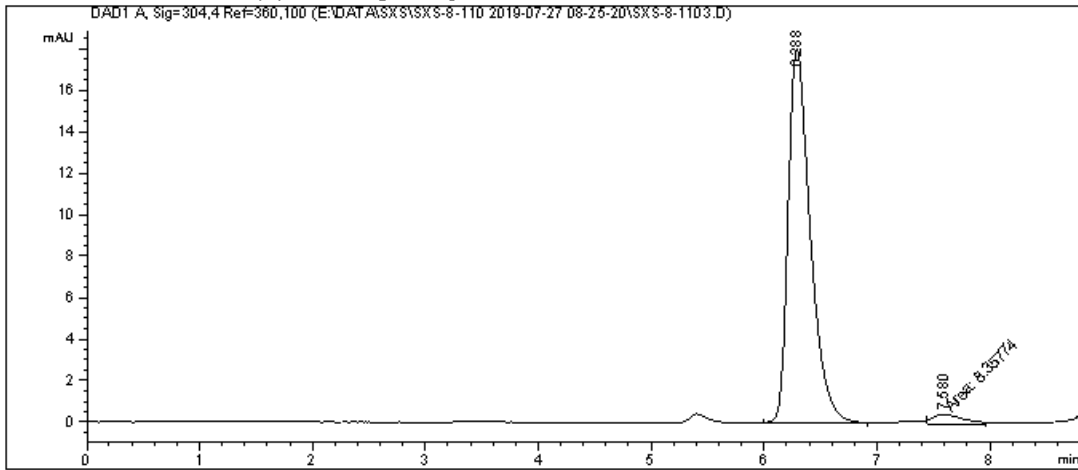


(S,S)-7a

Data File E:\DATA\SXS\SXS-8-110 2019-07-27 08-25-20\SXS-8-1103.D
 Sample Name: SXS-8-110-1-2-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                        Location  :   95
Injection Date  : 7/27/2019 10:00:59 AM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-110 2019-07-27 08-25-20\IEH-95-5-304NM-3UL-30MIN1.OML.M
Last changed    : 7/27/2019 8:25:21 AM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-8-110 2019-07-27 08-25-20\IEH-95-5-304NM-3UL-30MIN1.OML.M (
Sequence Method)
Last changed    : 5/4/2020 4:07:02 PM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

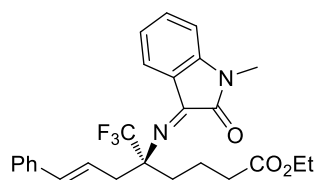
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=304,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.288	BB	0.2047	245.20273	18.02160	96.7038
2	7.580	MM	0.3017	8.35774	4.61753e-1	3.2962

Totals : 253.56047 18.48335

=====
 *** End of Report ***

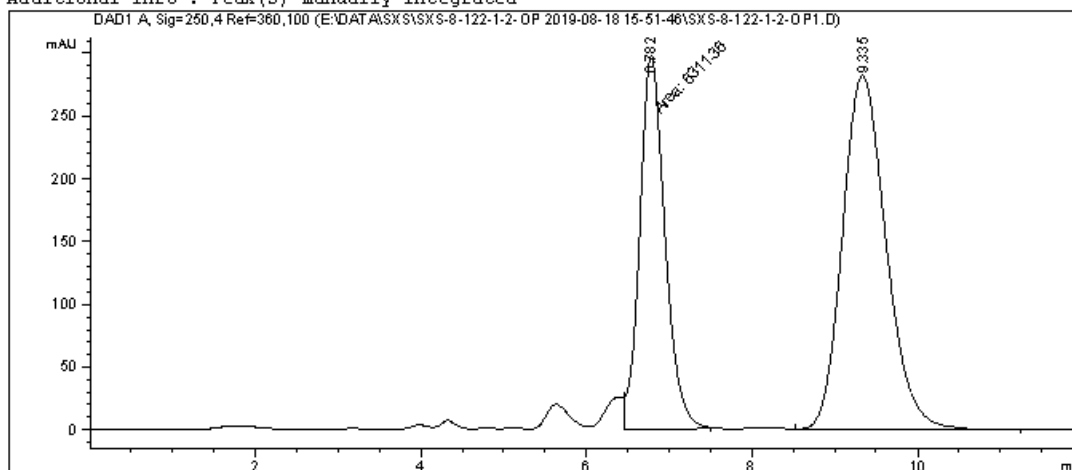


(Rac)-6b

Data File E:\DATA\SXS\SXS-8-122-1-2-OP 2019-08-18 15-51-46\SXS-8-122-1-2-OP1.D
 Sample Name: SXS-8-115-1-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   92
Injection Date  : 8/18/2019 4:06:49 PM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-122-1-2-OP 2019-08-18 15-51-46\ASH-95-5250NM-1.0ML-5uL-
                  10MIN.M
Last changed    : 8/18/2019 3:58:43 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-8-122-1-2-OP 2019-08-18 15-51-46\ASH-95-5250NM-1.0ML-5uL-
                  10MIN.M (Sequence Method)
Last changed    : 5/1/2020 8:49:30 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

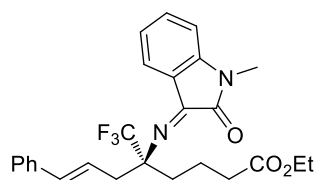
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=250,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.782	FM	0.3526	6311.35889	298.32635	38.0827
2	9.335	BB	0.5526	1.02614e4	281.96475	61.9173

Totals : 1.65728e4 580.29111

*** End of Report ***

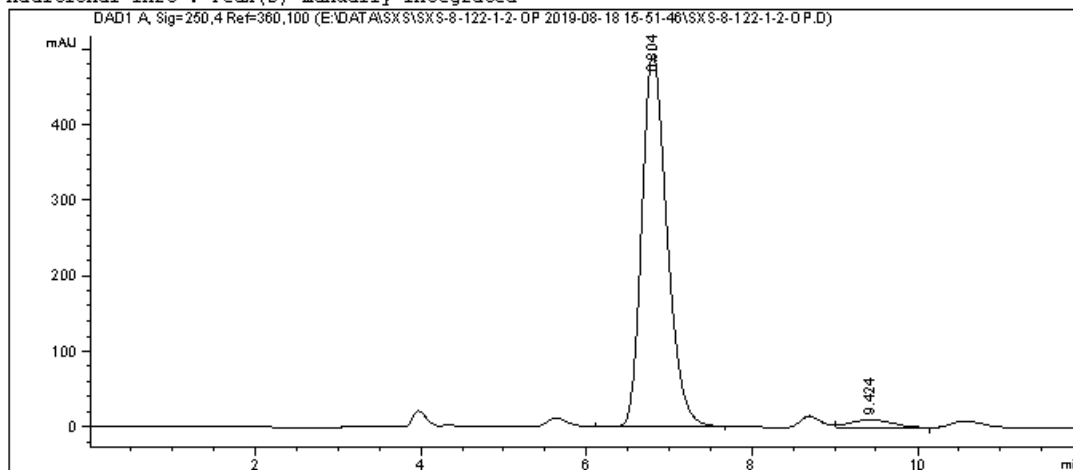


(S)-6b

Data File E:\DATA\SXS\SXS-8-122-1-2-OP 2019-08-18 15-51-46\SXS-8-122-1-2-OP.D
 Sample Name: SXS-8-122-1-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   100
Injection Date  : 8/18/2019 3:53:26 PM       Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-122-1-2-OP 2019-08-18 15-51-46\ASH-95-5250NM-1.0ML-5uL-
                  10MIN.M
Last changed    : 8/18/2019 3:58:43 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-8-122-1-2-OP 2019-08-18 15-51-46\ASH-95-5250NM-1.0ML-5uL-
                  10MIN.M (Sequence Method)
Last changed    : 5/1/2020 8:49:30 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

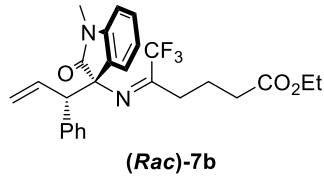
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=250,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.804	BB	0.3239	1.03979e4	493.23367	96.4223
2	9.424	VB	0.4266	385.80493	11.12383	3.5777

Totals : 1.07837e4 504.35750

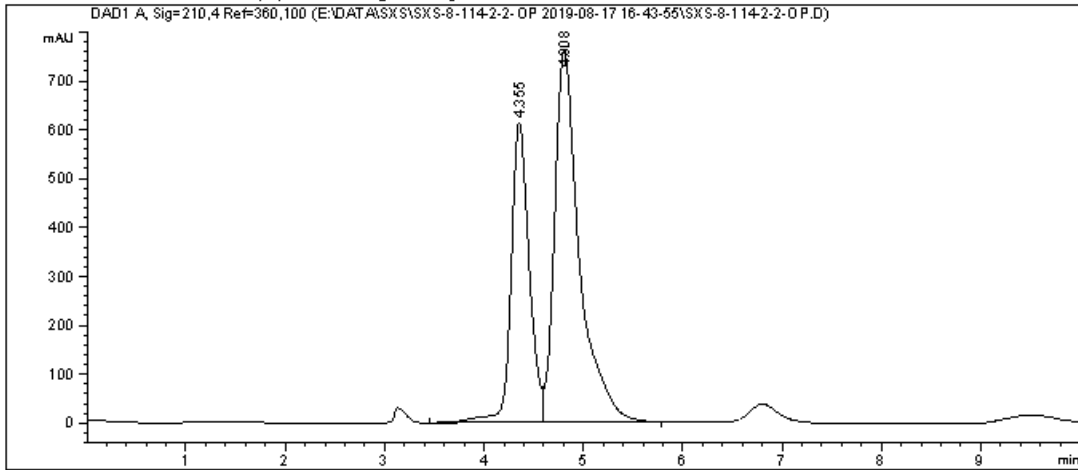
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-8-114-2-2-OP 2019-08-17 16-43-55\SXS-8-114-2-2-OP.D
 Sample Name: SXS-8-115-2-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   94
Injection Date  : 8/17/2019 4:45:20 PM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-114-2-2-OP 2019-08-17 16-43-55\ASH-95-5-210NM-1.0ML-5uL-
                  10MIN.M
Last changed    : 8/17/2019 4:43:56 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-8-114-2-2-OP 2019-08-17 16-43-55\ASH-95-5-210NM-1.0ML-5uL-
                  10MIN.M (Sequence Method)
Last changed    : 5/1/2020 8:54:28 AM by SYSTEM
                  (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

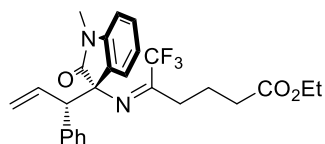
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=210,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.355	BV	0.1919	7771.95166	612.90350	36.9750
2	4.808	VB	0.2557	1.32475e4	762.38702	63.0250

Totals : 2.10195e4 1375.29053

=====
 *** End of Report ***

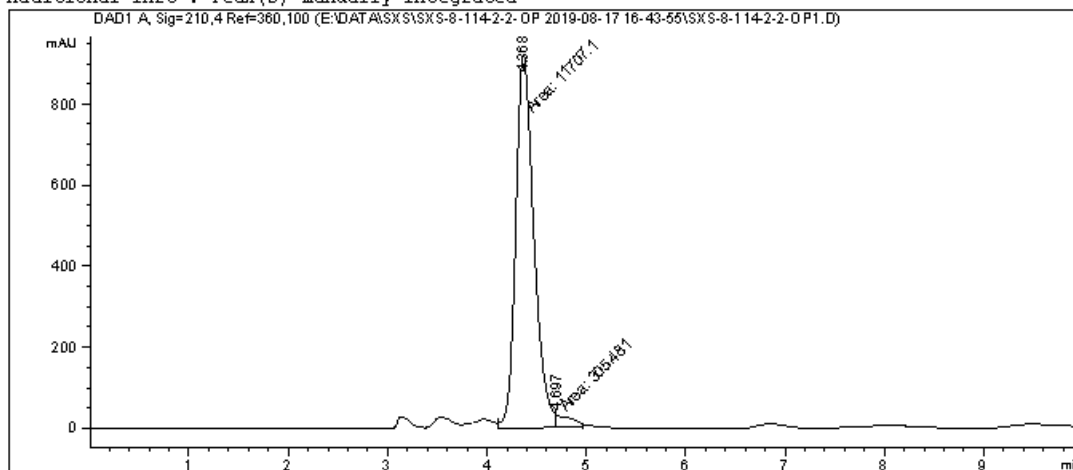


(S,S)-7b

Data File E:\DATA\SXS\SXS-8-114-2-2-OP 2019-08-17 16-43-55\SXS-8-114-2-2-OP1.D
 Sample Name: SXS-8-114-2-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   95
Injection Date  : 8/17/2019 4:56:53 PM       Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-114-2-2-OP 2019-08-17 16-43-55\ASH-95-5-210NM-1.0ML-5uL-
                  10MIN.M
Last changed    : 8/17/2019 4:43:56 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-8-114-2-2-OP 2019-08-17 16-43-55\ASH-95-5-210NM-1.0ML-5uL-
                  10MIN.M (Sequence Method)
Last changed    : 5/1/2020 8:54:28 AM by SYSTEM
                  (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



Area Percent Report

```

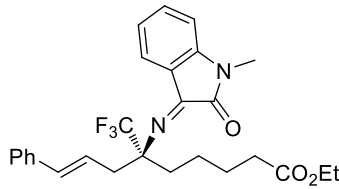
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=210,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.368	MF	0.2116	1.17071e4	921.96661	97.4570
2	4.697	FM	0.1677	305.48102	30.36709	2.5430

Totals : 1.20126e4 952.33371

*** End of Report ***

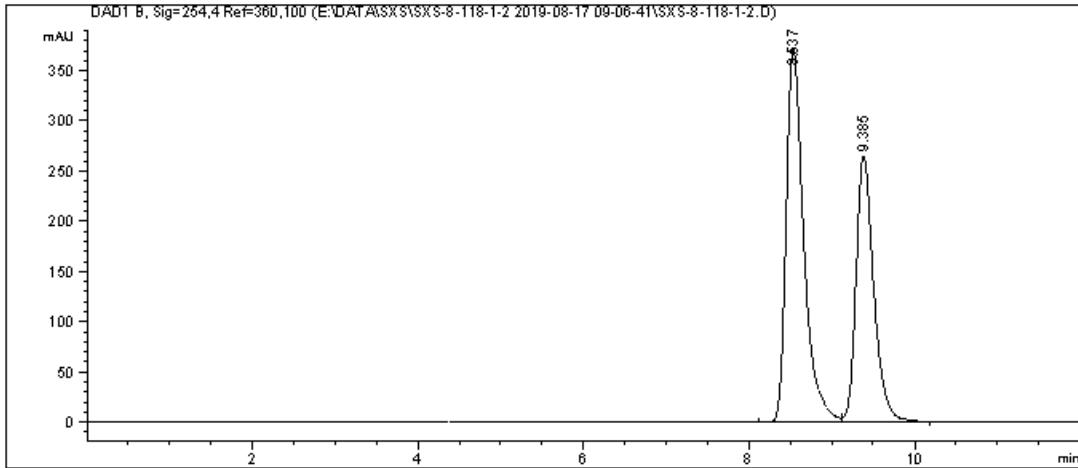


(Rac)-6c

Data File E:\DATA\SXS\SXS-8-118-1-2 2019-08-17 09-06-41\SXS-8-118-1-2.D
 Sample Name: SXS-8-119-1-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   96
Injection Date  : 8/17/2019 9:08:12 AM        Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-118-1-2 2019-08-17 09-06-41\IE-95-5-3UL-15MIN-254NM.M
Last changed    : 8/17/2019 9:18:33 AM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-8-118-1-2 2019-08-17 09-06-41\IE-95-5-3UL-15MIN-254NM.M (
                  Sequence Method)
Last changed    : 5/1/2020 8:46:30 AM by SYSTEM
                  (modified after loading)
  
```



=====
 Area Percent Report
 =====

```

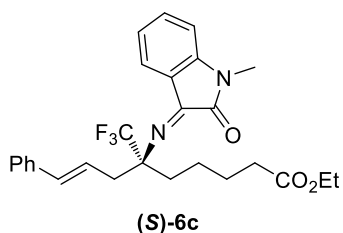
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.537	BV	0.2219	5491.24463	372.75156	58.4058
2	9.385	VB	0.2231	3910.64111	265.02716	41.5942

Totals : 9401.88574 637.77872

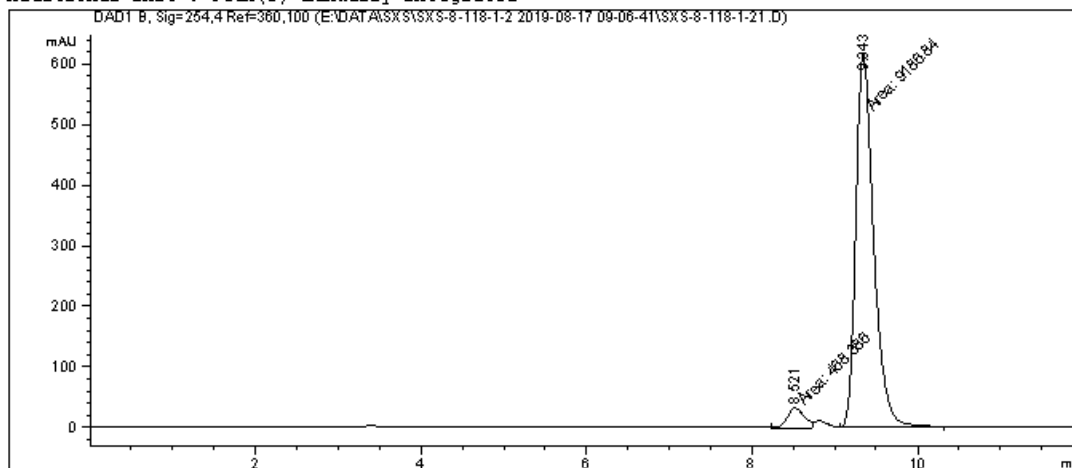
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-8-118-1-2 2019-08-17 09-06-41\SXS-8-118-1-21.D
 Sample Name: SXS-8-118-1-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   97
Injection Date  : 8/17/2019 9:21:40 AM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-118-1-2 2019-08-17 09-06-41\IE-95-5-3UL-15MIN-254NM.M
Last changed    : 8/17/2019 9:18:33 AM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-8-118-1-2 2019-08-17 09-06-41\IE-95-5-3UL-15MIN-254NM.M (
Sequence Method)
Last changed    : 5/1/2020 8:46:30 AM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

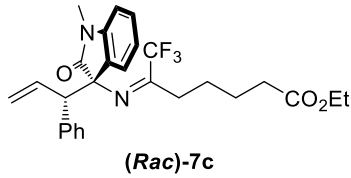
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.521	MF	0.2383	468.38580	32.76171	4.8511
2	9.343	FM	0.2479	9186.84082	617.76624	95.1489

Totals : 9655.22662 650.52795

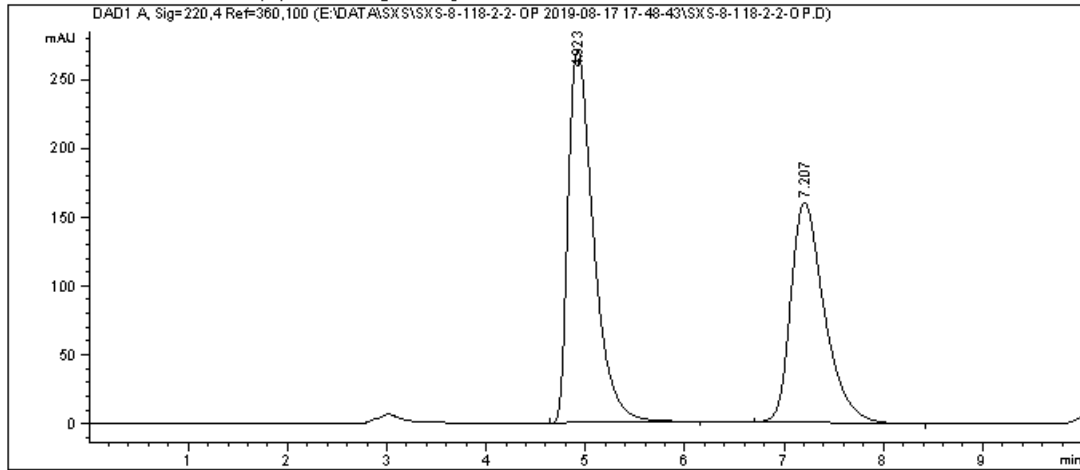
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-8-118-2-2-OP 2019-08-17 17-48-43\SXS-8-118-2-2-OP.D
 Sample Name: SXS-8-119-2-2-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   98
Injection Date  : 8/17/2019 5:50:16 PM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method    : E:\DATA\SXS\SXS-8-118-2-2-OP 2019-08-17 17-48-43\ADH-95-5-220NM-3UL-1.OML-
                  10MIN.M
Last changed   : 8/17/2019 5:48:44 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-8-118-2-2-OP 2019-08-17 17-48-43\ADH-95-5-220NM-3UL-1.OML-
                  10MIN.M (Sequence Method)
Last changed   : 5/1/2020 8:44:48 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

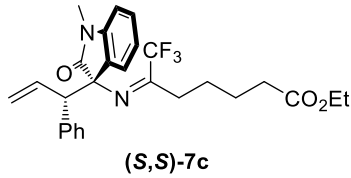
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.923	BB	0.2727	4805.70361	271.19501	56.1714
2	7.207	BB	0.3585	3749.72949	159.96295	43.8286

Totals : 8555.43311 431.15796

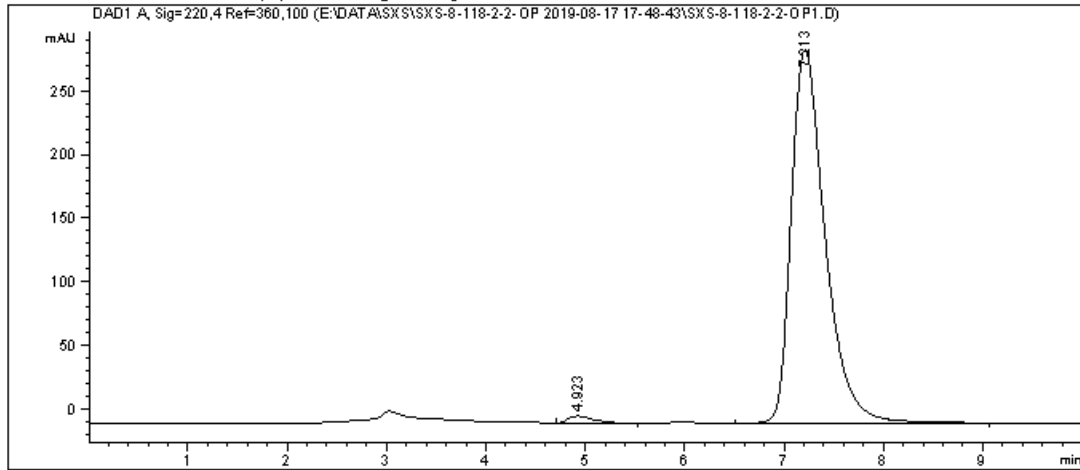
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-8-118-2-2-OP 2019-08-17 17-48-43\SXS-8-118-2-2-OP1.D
 Sample Name: SXS-8-118-2-2-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   99
Injection Date  : 8/17/2019 6:01:48 PM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method    : E:\DATA\SXS\SXS-8-118-2-2-OP 2019-08-17 17-48-43\ADH-95-5-220NM-3UL-1.OML-
                  10MIN.M
Last changed   : 8/17/2019 5:48:44 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-8-118-2-2-OP 2019-08-17 17-48-43\ADH-95-5-220NM-3UL-1.OML-
                  10MIN.M (Sequence Method)
Last changed   : 5/1/2020 8:44:48 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

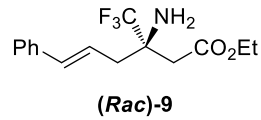
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.923	BB	0.2498	94.48800	5.46221	1.3309
2	7.213	BB	0.3627	7005.08936	294.26187	98.6691

Totals : 7099.57735 299.72408

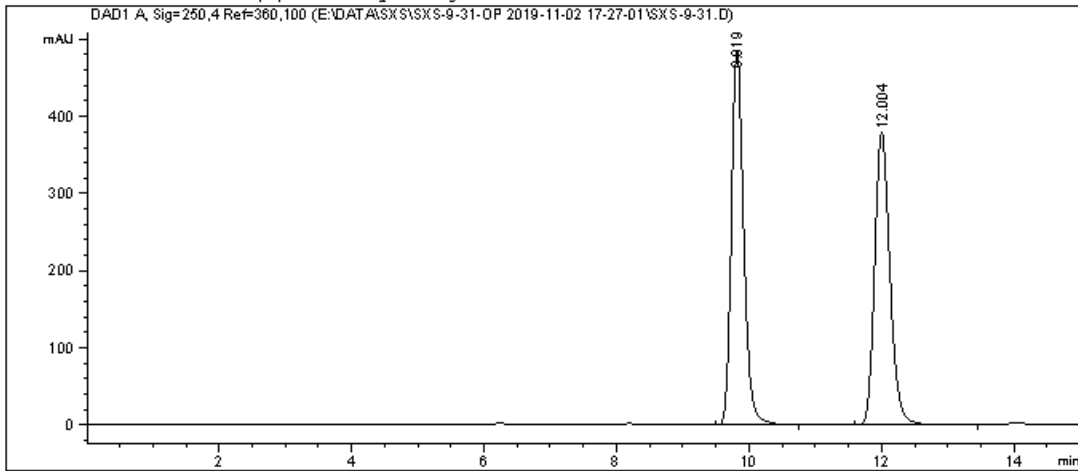
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-9-31-OP 2019-11-02 17-27-01\SXS-9-31.D
 Sample Name: SXS-9-37-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   21
Injection Date  : 11/2/2019 5:28:29 PM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-9-31-OP 2019-11-02 17-27-01\ADH-95-5-250NM-3UL-15MIN-1.OML.
                                           M
Last changed    : 11/2/2019 5:27:02 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-9-31-OP 2019-11-02 17-27-01\ADH-95-5-250NM-3UL-15MIN-1.OML.
                                           M (Sequence Method)
Last changed    : 5/1/2020 12:56:04 PM by SYSTEM
                                           (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

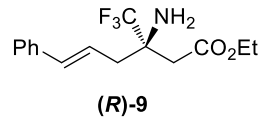
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=250,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.819	BB	0.1993	6284.14014	484.58743	50.9466
2	12.004	BB	0.2456	6050.62158	378.39807	49.0534

Totals : 1.23348e4 862.98550

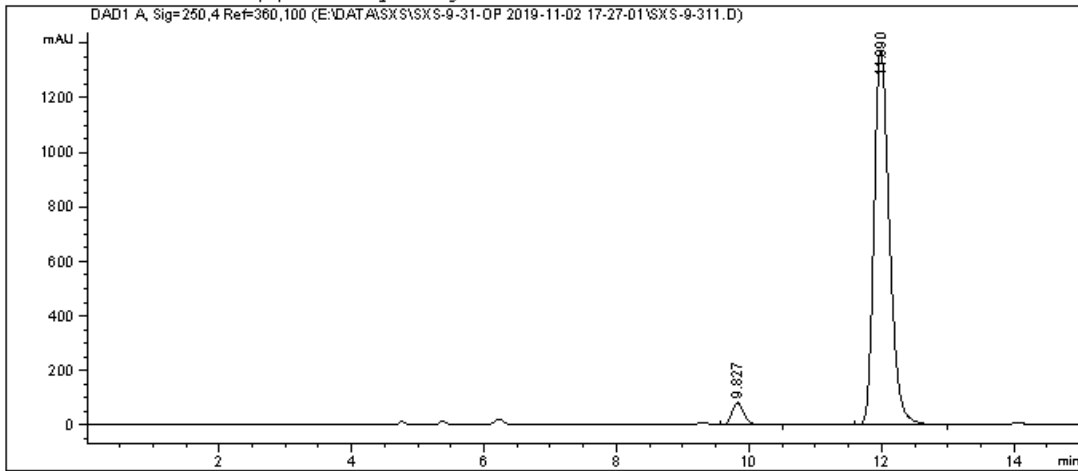
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-9-31-OP 2019-11-02 17-27-01\SXS-9-311.D
 Sample Name: SXS-9-31-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   22
Injection Date  : 11/2/2019 5:44:53 PM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-9-31-OP 2019-11-02 17-27-01\ADH-95-5-250NM-3UL-15MIN-1.OML.
                                           M
Last changed    : 11/2/2019 5:27:02 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-9-31-OP 2019-11-02 17-27-01\ADH-95-5-250NM-3UL-15MIN-1.OML.
                                           M (Sequence Method)
Last changed    : 5/1/2020 12:56:04 PM by SYSTEM
                                           (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

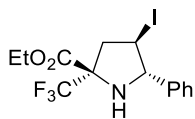
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=250,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.827	VB	0.1988	1044.92651	80.81761	4.5115
2	11.990	BB	0.2480	2.21166e4	1372.34082	95.4885

Totals : 2.31615e4 1453.15843

=====
 *** End of Report ***

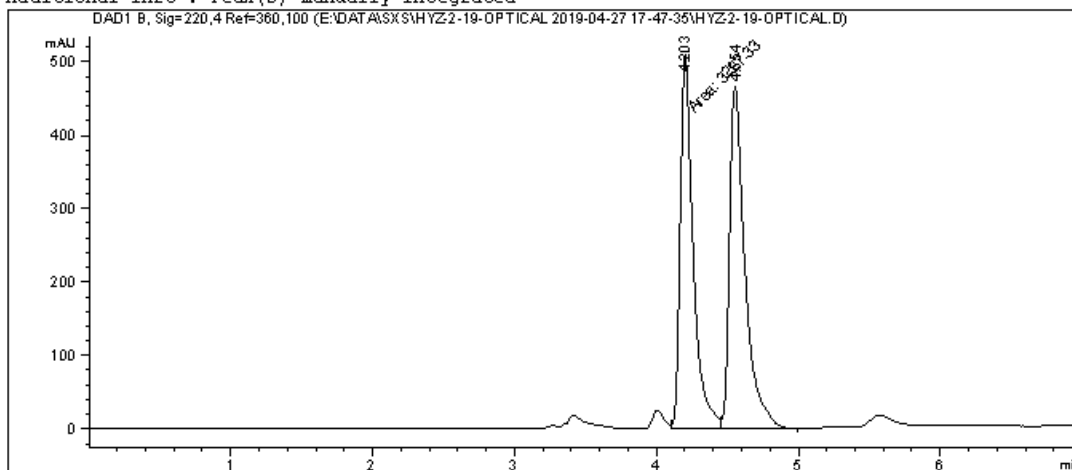


(Rac)-10

Data File E:\DATA\SXS\HYZ-2-19-OPTICAL 2019-04-27 17-47-35\HYZ-2-19-OPTICAL.D
 Sample Name: SXS-8-23-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   61
Injection Date  : 4/27/2019 5:49:02 PM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\HYZ-2-19-OPTICAL 2019-04-27 17-47-35\IE-95-5-3UL-10MIN-220MM.M
Last changed    : 4/27/2019 5:55:33 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\HYZ-2-19-OPTICAL 2019-04-27 17-47-35\IE-95-5-3UL-10MIN-220MM.M
                  (Sequence Method)
Last changed    : 5/1/2020 12:35:52 PM by SYSTEM
                  (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



Area Percent Report

```

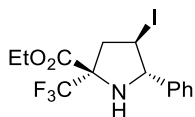
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.203	FM	0.1055	3227.33203	509.95090	47.8618
2	4.554	VB	0.1111	3515.68848	465.70276	52.1382

Totals : 6743.02051 975.65366

*** End of Report ***

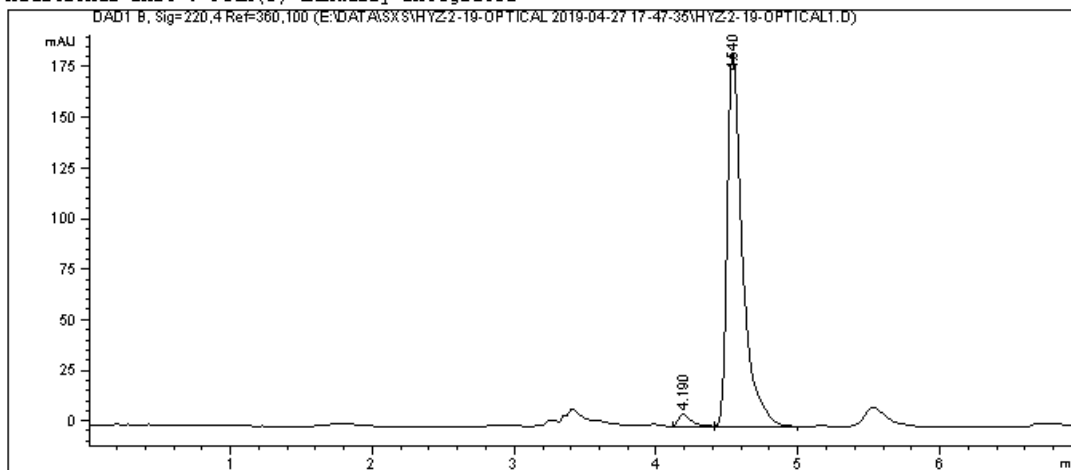


(2R,4R,5S)-10

Data File E:\DATA\SXS\HYZ-2-19-OPTICAL 2019-04-27 17-47-35\HYZ-2-19-OPTICAL1.D
 Sample Name: HYZ-2-19

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   62
Injection Date  : 4/27/2019 5:57:33 PM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\HYZ-2-19-OPTICAL 2019-04-27 17-47-35\IE-95-5-3UL-10MIN-220NM.M
Last changed    : 4/27/2019 5:55:33 PM by SYSTEM
Analysis Method : E:\DATA\SXS\HYZ-2-19-OPTICAL 2019-04-27 17-47-35\IE-95-5-3UL-10MIN-220NM.M
                  (Sequence Method)
Last changed    : 5/1/2020 12:35:52 PM by SYSTEM
                  (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

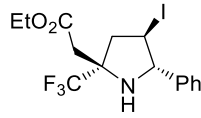
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.190	BV R	0.0925	35.84158	5.76666	2.5321
2	4.540	VV R	0.1112	1379.62354	184.63724	97.4679

Totals : 1415.46512 190.40390

=====
 *** End of Report ***

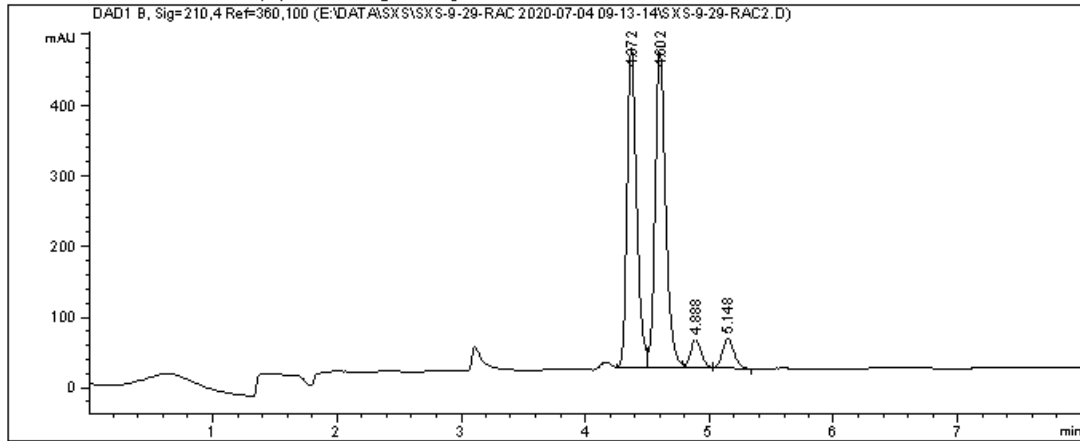


(Rac)-11

Data File E:\DATA\SXS\SXS-9-29-RAC 2020-07-04 09-13-14\SXS-9-29-RAC2.D
 Sample Name: SXS-9-29-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                        Location  :   51
Injection Date  : 7/4/2020 9:33:24 AM        Inj       :    1
                                           Inj Volume: 2.000 µl
Acq. Method     : E:\DATA\SXS\SXS-9-29-RAC 2020-07-04 09-13-14\ODH-95-5-10MIN-210NM-2UL.M
Last changed    : 7/4/2020 9:40:10 AM by SYSTEM
                 (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-9-29-RAC 2020-07-04 09-13-14\ODH-95-5-10MIN-210NM-2UL.M (
Sequence Method)
Last changed    : 7/6/2020 9:27:17 AM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

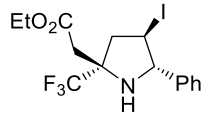
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=210,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.372	BV	0.0815	2419.70532	452.02850	43.6499
2	4.602	VV R	0.0898	2623.63086	445.05792	47.3286
3	4.888	VB E	0.0907	230.66451	39.75111	4.1610
4	5.148	BB	0.0998	269.43930	41.45179	4.8605

Totals : 5543.43999 978.28933

*** End of Report ***

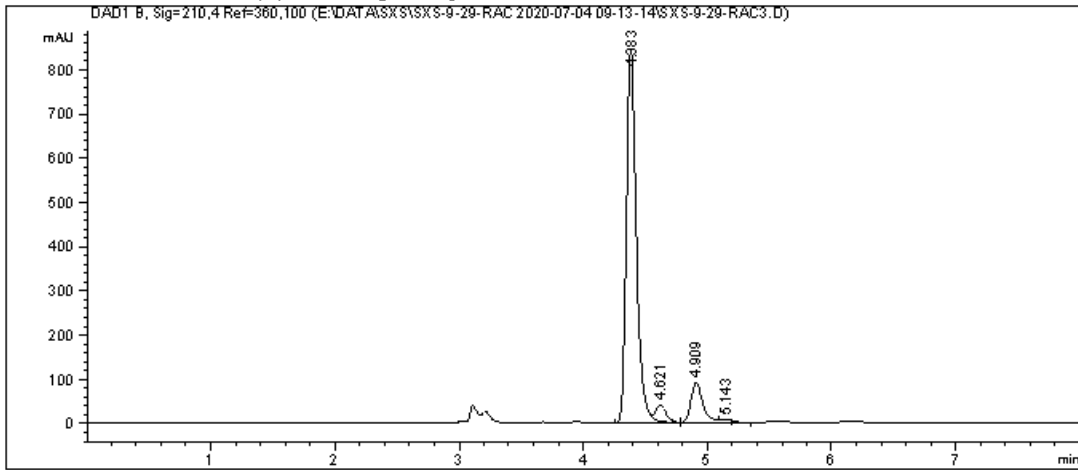


(2S,4R,5S)-11

Data File E:\DATA\SXS\SXS-9-29-RAC 2020-07-04 09-13-14\SXS-9-29-RAC3.D
 Sample Name: SXS-9-30-0P

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                        Location  :   52
Injection Date  : 7/4/2020 9:42:14 AM        Inj       :    1
                                           Inj Volume: 2.000 µl
Acq. Method     : E:\DATA\SXS\SXS-9-29-RAC 2020-07-04 09-13-14\ODH-95-5-10MIN-210NM-2UL.M
Last changed    : 7/4/2020 9:40:10 AM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-9-29-RAC 2020-07-04 09-13-14\ODH-95-5-10MIN-210NM-2UL.M (
Sequence Method)
Last changed    : 7/6/2020 9:25:16 AM by SYSTEM
                 (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



Area Percent Report

```

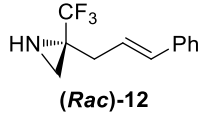
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=210,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	4.383	BV R	0.0839	4705.48633	845.35559	84.4534
2	4.621	VB E	0.0853	216.01894	38.00503	3.8771
3	4.909	BV R	0.1050	644.61780	90.55572	11.5695
4	5.143	VB E	0.0529	5.57411	1.41605	0.1000

Totals : 5571.69717 975.33239

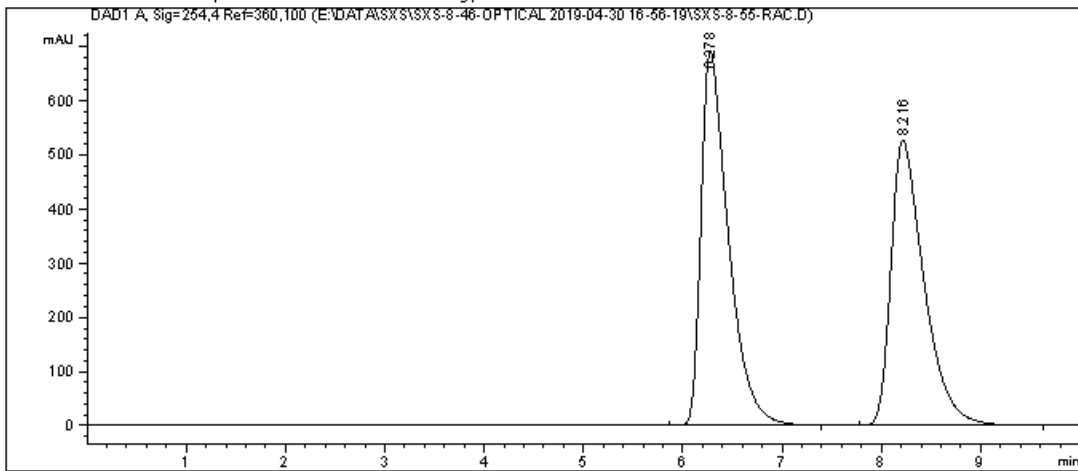
*** End of Report ***



Data File E:\DATA\SXS\SXS-8-46-OPTICAL 2019-04-30 16-56-19\SXS-8-55-RAC.D
 Sample Name: SXS-8-55-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   61
Injection Date  : 4/30/2019 4:57:46 PM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-8-46-OPTICAL 2019-04-30 16-56-19\ADH-95-5-254NM-1.OML-10MIN
                                           .M
Last changed    : 4/30/2019 4:56:20 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-8-46-OPTICAL 2019-04-30 16-56-19\ADH-95-5-254NM-1.OML-10MIN
                                           .M (Sequence Method)
Last changed    : 5/1/2020 12:54:01 PM by SYSTEM
                                           (modified after loading)
  
```



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 Area Percent Report
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```

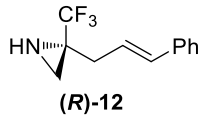
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.278	BB	0.2698	1.32179e4	691.98663	52.0476
2	8.216	BV R	0.3354	1.21779e4	527.35168	47.9524

Totals : 2.53958e4 1219.33832

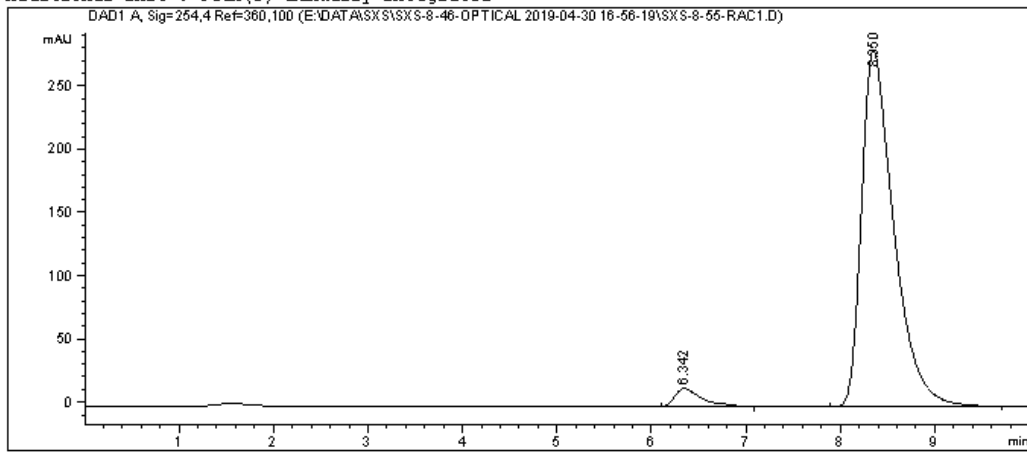
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-8-46-OPTICAL 2019-04-30 16-56-19\SXS-8-55-RAC1.D
 Sample Name: SXS-8-46-OPTICAL

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   62
Injection Date  : 4/30/2019 5:09:13 PM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method    : E:\DATA\SXS\SXS-8-46-OPTICAL 2019-04-30 16-56-19\ADH-95-5-254NM-1.OML-10MIN
                                           .M
Last changed   : 4/30/2019 4:56:20 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-8-46-OPTICAL 2019-04-30 16-56-19\ADH-95-5-254NM-1.OML-10MIN
                                           .M (Sequence Method)
Last changed   : 7/14/2020 4:29:40 PM by SYSTEM
                                           (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

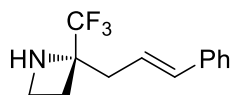
Sorted By      : Signal
Multiplier     : 1.0000
Dilution      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	6.342	BB	0.2436	278.75262	14.16148	4.0001
2	8.350	VV R	0.3379	6689.97021	281.87564	95.9999

Totals : 6968.72284 296.03712

*** End of Report ***

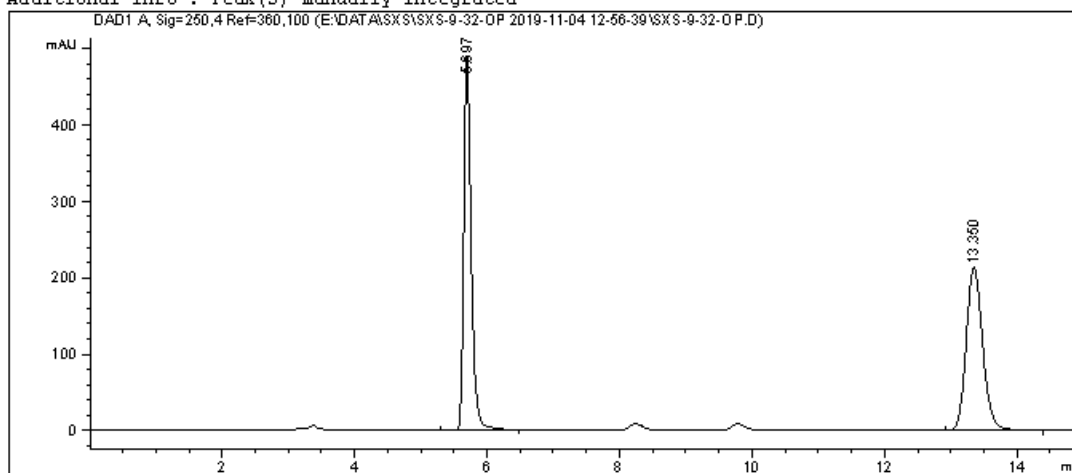


(Rac)-13

Data File E:\DATA\SXS\SXS-9-32-OP 2019-11-04 12-56-39\SXS-9-32-OP.D
 Sample Name: SXS-9-42-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   25
Injection Date  : 11/4/2019 12:58:11 PM      Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-9-32-OP 2019-11-04 12-56-39\ADH-95-5-250NM-3UL-15MIN-1.OML.M
Last changed    : 11/4/2019 1:12:36 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-9-32-OP 2019-11-04 12-56-39\ADH-95-5-250NM-3UL-15MIN-1.OML.M (Sequence Method)
Last changed    : 5/1/2020 12:57:46 PM by SYSTEM
                  (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

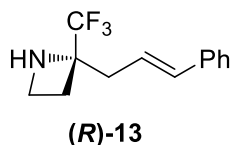
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=250,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.697	VB R	0.1189	3860.21265	490.29669	51.1500
2	13.350	BB	0.2665	3686.63257	213.42300	48.8500

Totals : 7546.84521 703.71970

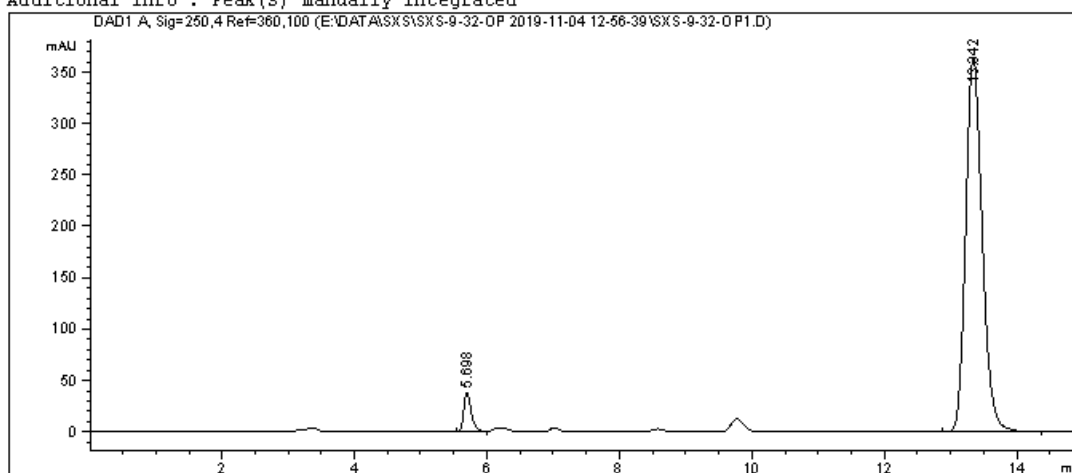
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-9-32-OP 2019-11-04 12-56-39\SXS-9-32-OP1.D
 Sample Name: SXS-9-32-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   26
Injection Date  : 11/4/2019 1:14:39 PM       Inj       :    1
                                           Inj Volume: 3.000 µl
Acq. Method     : E:\DATA\SXS\SXS-9-32-OP 2019-11-04 12-56-39\ADH-95-5-250NM-3UL-15MIN-1.OML.M
Last changed    : 11/4/2019 1:12:36 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-9-32-OP 2019-11-04 12-56-39\ADH-95-5-250NM-3UL-15MIN-1.OML.M (Sequence Method)
Last changed    : 5/1/2020 12:57:46 PM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

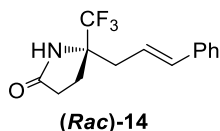
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=250,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.698	BB	0.1194	298.15326	37.65704	4.5043
2	13.342	BB	0.2663	6321.12256	364.60516	95.4957

Totals : 6619.27582 402.26221

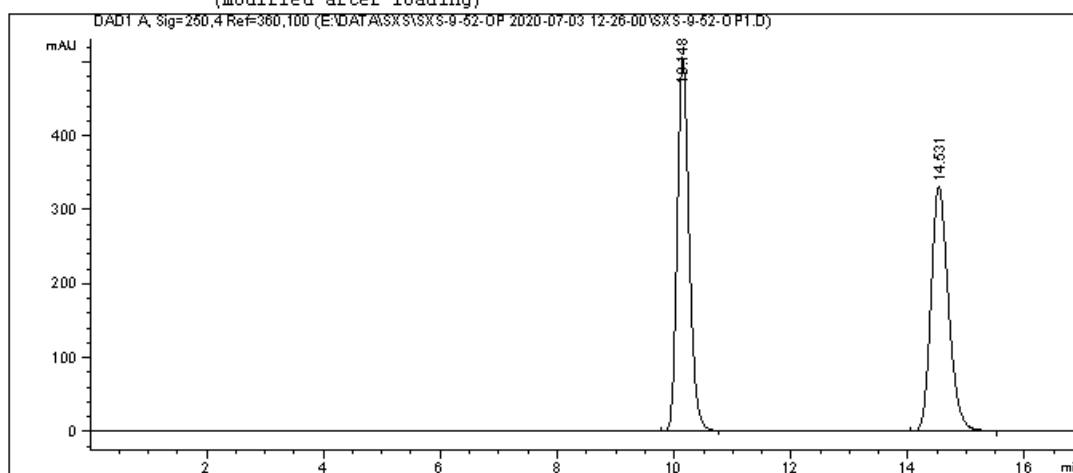
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-9-52-0P 2020-07-03 12-26-00\SXS-9-52-0P1.D
 Sample Name: SXS-9-50-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   53
Injection Date  : 7/3/2020 12:46:00 PM       Inj       :    1
                                           Inj Volume: 1.000 µl
Acq. Method     : E:\DATA\SXS\SXS-9-52-0P 2020-07-03 12-26-00\ADH-95-5-250NM-3UL-15MIN-1.OML.
                                           M
Last changed    : 7/3/2020 12:44:04 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-9-52-0P 2020-07-03 12-26-00\ADH-95-5-250NM-3UL-15MIN-1.OML.
                                           M (Sequence Method)
Last changed    : 7/6/2020 9:37:07 AM by SYSTEM
                                           (modified after loading)
  
```



=====
 Area Percent Report
 =====

```

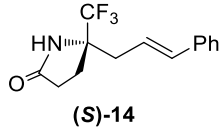
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=250,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.148	BB	0.2170	7156.46777	506.06458	51.1195
2	14.531	BB	0.3170	6843.02051	331.23206	48.8805

Totals : 1.39995e4 837.29663

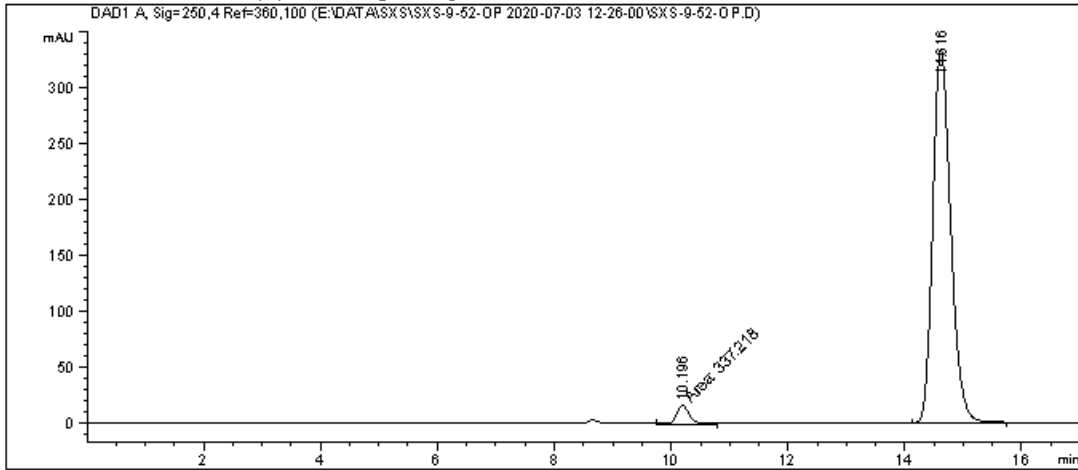
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-9-52-OP 2020-07-03 12-26-00\SXS-9-52-OP.D
 Sample Name: SXS-9-52-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   54
Injection Date  : 7/3/2020 12:27:31 PM       Inj       :    1
                                           Inj Volume: 1.000 µl
Acq. Method     : E:\DATA\SXS\SXS-9-52-OP 2020-07-03 12-26-00\ADH-95-5-250NM-3UL-15MIN-1.OML.
                                           M
Last changed    : 7/3/2020 12:44:04 PM by SYSTEM
                 (modified after loading)
Analysis Method : E:\DATA\SXS\SXS-9-52-OP 2020-07-03 12-26-00\ADH-95-5-250NM-3UL-15MIN-1.OML.
                                           M (Sequence Method)
Last changed    : 7/6/2020 9:37:07 AM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



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 Area Percent Report
 =====

```

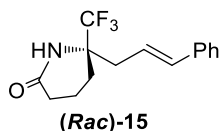
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=250,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.196	MM	0.3096	337.21811	18.15332	4.5183
2	14.616	BB	0.3263	7126.15186	334.88138	95.4817

Totals : 7463.36996 353.03470

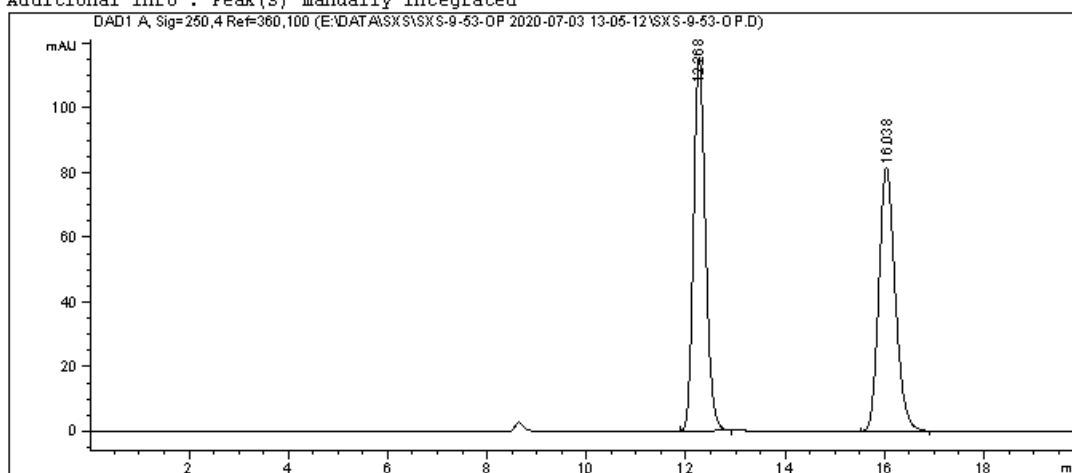
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-9-53-OP 2020-07-03 13-05-12\SXS-9-53-OP.D
 Sample Name: SXS-9-54-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                      Location  :   55
Injection Date  : 7/3/2020 1:06:40 PM        Inj       :    1
                                           Inj Volume: 1.000 µl
Acq. Method    : E:\DATA\SXS\SXS-9-53-OP 2020-07-03 13-05-12\ADH-95-5-250NM-3UL-15MIN-1.OML.M
Last changed   : 7/3/2020 1:05:12 PM by SYSTEM
Analysis Method: E:\DATA\SXS\SXS-9-53-OP 2020-07-03 13-05-12\ADH-95-5-250NM-3UL-15MIN-1.OML.M (Sequence Method)
Last changed   : 7/6/2020 9:42:17 AM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



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 Area Percent Report
 =====

```

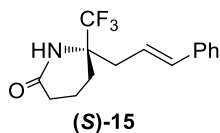
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=250,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.268	BB	0.2584	1923.20532	115.44690	50.9204
2	16.038	BB	0.3437	1853.67712	81.37844	49.0796

Totals : 3776.88245 196.82534

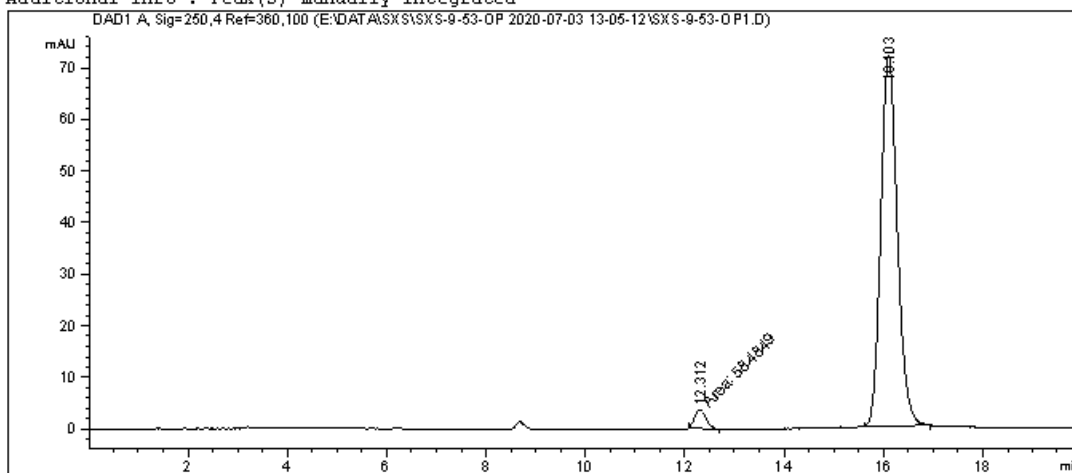
=====
 *** End of Report ***



Data File E:\DATA\SXS\SXS-9-53-OP 2020-07-03 13-05-12\SXS-9-53-OP1.D
 Sample Name: SXS-9-53-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                      Location  :   56
Injection Date  : 7/3/2020 1:28:06 PM        Inj       :    1
                                           Inj Volume: 1.000 µl
Acq. Method     : E:\DATA\SXS\SXS-9-53-OP 2020-07-03 13-05-12\ADH-95-5-250NM-3UL-15MIN-1.OML.
                                           M
Last changed    : 7/3/2020 1:05:12 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-9-53-OP 2020-07-03 13-05-12\ADH-95-5-250NM-3UL-15MIN-1.OML.
                                           M (Sequence Method)
Last changed    : 7/6/2020 9:42:25 AM by SYSTEM
                                           (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



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 Area Percent Report
 =====

```

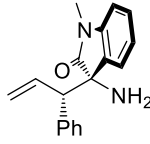
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=250,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.312	MM	0.2649	58.48491	3.68020	3.4119
2	16.103	BB	0.3441	1655.64734	71.76904	96.5881

Totals : 1714.13224 75.44924

=====
 *** End of Report ***

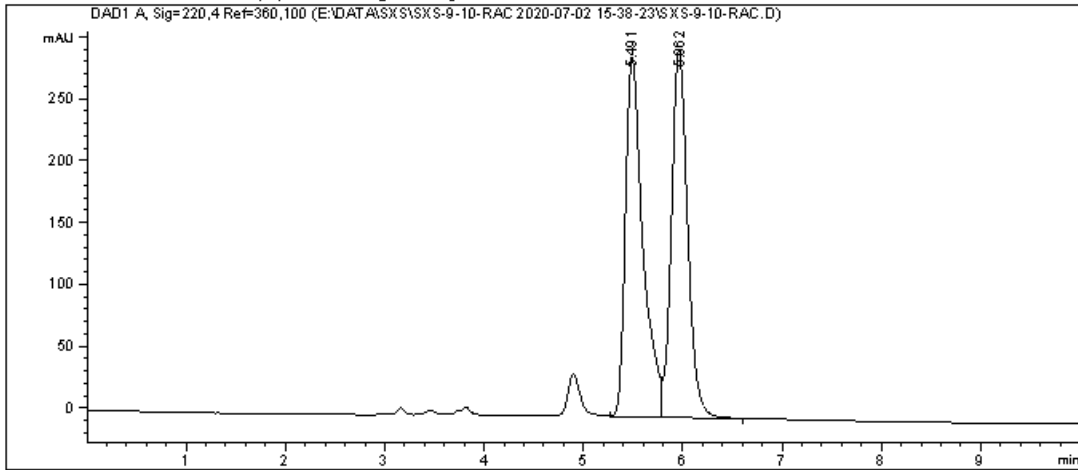


(Rac)-16

Data File E:\DATA\SXS\SXS-9-10-RAC 2020-07-02 15-38-23\SXS-9-10-RAC.D
 Sample Name: SXS-9-10-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                          Location  :   61
Injection Date  : 7/2/2020 3:39:48 PM         Inj       :    1
                                           Inj Volume: 1.000 µl
Acq. Method     : E:\DATA\SXS\SXS-9-10-RAC 2020-07-02 15-38-23\ODH-60-40-1ML-1µL-10MIN-22ONM.
                                           M
Last changed    : 7/2/2020 3:38:24 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-9-10-RAC 2020-07-02 15-38-23\ODH-60-40-1ML-1µL-10MIN-22ONM.
                                           M (Sequence Method)
Last changed    : 7/6/2020 9:20:12 AM by SYSTEM
                                           (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



Area Percent Report

```

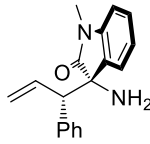
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.491	VV	0.1820	3563.22925	290.66959	51.5135
2	5.962	VB	0.1736	3353.85498	297.30090	48.4865

Totals : 6917.08423 587.97049

*** End of Report ***

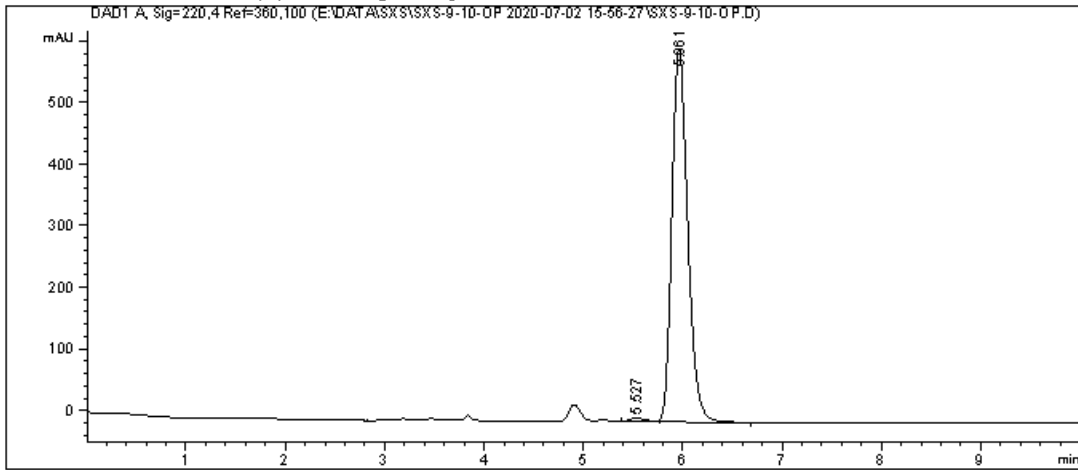


(S)-16

Data File E:\DATA\SXS\SXS-9-10-OP 2020-07-02 15-56-27\SXS-9-10-OP.D
 Sample Name: SXS-9-10-OP

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   62
Injection Date  : 7/2/2020 3:57:48 PM        Inj       :    1
                                           Inj Volume: 1.000 µl
Acq. Method     : E:\DATA\SXS\SXS-9-10-OP 2020-07-02 15-56-27\ODH-60-40-1ML-1µL-10MIN-220NM.M
Last changed    : 7/2/2020 3:56:28 PM by SYSTEM
Analysis Method : E:\DATA\SXS\SXS-9-10-OP 2020-07-02 15-56-27\ODH-60-40-1ML-1µL-10MIN-220NM.M
                  (Sequence Method)
Last changed    : 7/6/2020 9:19:45 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



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 Area Percent Report
 =====

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.527	BV E	0.1334	68.22499	6.15243	1.0095
2	5.961	VV R	0.1709	6690.36621	605.48254	98.9905

Totals : 6758.59120 611.63497

=====
 *** End of Report ***