

Electronic Supporting Information

Alkene as Hydrogen Trapper to Control the *Regio*-Selective Ruthenium(II) Catalyzed *ortho* C-H Silylation of Amides and Anilides

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General remarks

All reagents were obtained from commercial sources and used as received. Technical grade petroleum ether (40-60°C bp.) and ethyl acetate were used for chromatography column.

^1H NMR spectra were recorded in CDCl_3 at ambient temperature on Bruker AVANCE I 300, 400, 500 or 600 spectrometers at 300.1, 400.1, 500.1 or 600.1 MHz, using the solvent as internal standard (7.26 ppm). ^{13}C NMR spectra were obtained at 75, 100, 125 or 151 MHz and referenced to the internal solvent signals (central peak is 77.2 ppm). Chemical shift (δ) and coupling constants (J) are given in ppm and in Hz, respectively. The peak patterns are indicated as follows: s, singlet; d, doublet; t, triplet; q, quartet; m, multiplet, and br. for broad.

GC analyses were performed with GC-7890A (Agilent) equipped with a 30-m capillary column (HP-5ms, fused silica capillary column, 30 M*0.25 mm*0.25 mm film thickness), was used with N_2/air as vector gas. GCMS were measured by GCMS-7890A-5975C (Agilent) with GC-7890A equipped with a 30-m capillary column (HP-5ms, fused silica capillary column, 30 M*0.25 mm*0.25 mm film thickness), was used with helium as vector gas. HRMS were measured by MAT 95XP (Termol) (LCMS-IT-TOF).

Compounds **2m** were collected at 100 K on a Rigaku Oxford Diffraction Supernova Dual Source, Cu at Zero equipped with an Atlas2 CCD using Cu $\text{K}\alpha$ radiation. Data reduction was carried out with the diffractometer's software.

The following GC conditions were used: initial temperature 80 °C, for 2 minutes, then rate 20 °C/min. until 260 °C and 260°C for 20 minutes.

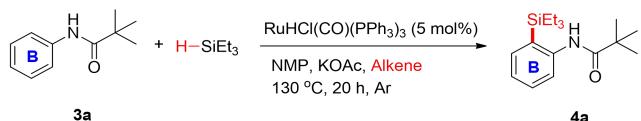
General procedure for $\text{RuHCl}(\text{CO})(\text{PPh}_3)_3$ catalyzed selective C-H mono-silylation of amide derivatives with hydrosilane

$\text{Ru}(\text{PPh}_3)_3(\text{CO})\text{HCl}$ (0.025 mmol, 23.8 mg), amide (0.5 mmol), triethylsilane (2.0 mmol), KOAc (0.25 mmol, 25 mg), norbornylene (2.0 mmol, 188 mg) and toluene (2 mL) were introduced in a tube under N_2 , equipped with magnetic stirring bar and was stirred at 120 °C. After 20 or 36 h, the conversion of the reaction was analyzed by gas chromatography. The solvent was then evaporated under vacuum and the desired product was purified by using a silica gel chromatography column and a mixture of petrol ether/ethyl acetate as eluent.

General procedure for $\text{RuHCl}(\text{CO})(\text{PPh}_3)_3$ catalyzed selective C-H mono-silylation of anilide derivatives with hydrosilane

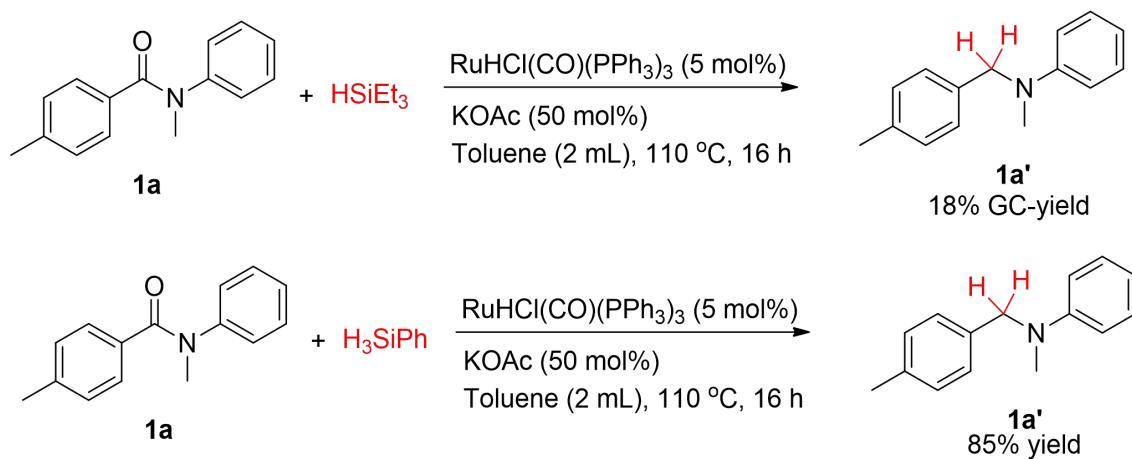
$\text{Ru}(\text{PPh}_3)_3(\text{CO})\text{HCl}$ (0.0125 mmol, 11.9 mg), anilide (0.25 mmol), triethylsilane (1.0 mmol), KOAc (0.125 mmol, 12.5 mg), MSE (1.0 mmol, 130 μL) and NMP (1 mL) were introduced in a tube under N_2 , equipped with magnetic stirring bar and was stirred at 120 °C. After 20 h, the conversion of the reaction was analyzed by gas chromatography. The solvent was then evaporated under vacuum and the desired product was purified by using a silica gel chromatography column and a mixture of petrol ether/ethyl acetate as eluent.

Table 1. Optimization of Ru(II)-catalyzed *ortho* C-H silylation of anilide **3a**



entry	Alkene	additive	solvent	GC-yield (%)
1	NBE	KOAc	NMP	9
2	TBE	KOAc	NMP	29
3	DTBP	KOAc	NMP	9
4	TMBE	KOAc	NMP	14
5	NBD	KOAc	NMP	5
6	MSE	KOAc	NMP	53
7	MSE	KOAc	NMP	60 ^b (57 ^c)
8	MSE	KOPiv	NMP	51
9	MSE	KOPiv	Heptane	5
10	MSE	KOAc	DCE	0
11	MSE	KOAc	1,4-dioxane	0
12	MSE	KOAc	toluene	8

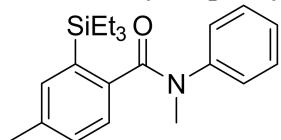
^aanilide **3a** (0.25 mmol), Et₃SiH (1.0 mmol), RuHCl(CO)(PPh₃)₃ (5 mol%), KOAc (0.125 mmol), alkene (1.0 mmol), NMP (0.5 mL), at 130 °C for 20 h, under N₂. ^bNMP (1 mL), 120 °C. ^c Isolated yield of **4a**.



Scheme S1. Ruthenium catalyzed reduction of amide **1a**.

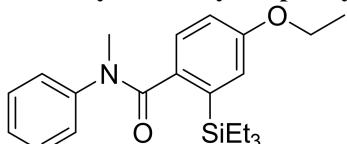
Characterization data of substrates

N,N-dimethyl-N-phenyl-2-(triethylsilyl)benzamide (2a)



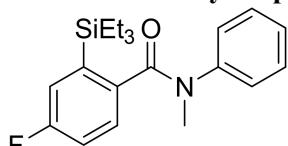
Green oil, yield = 78%, 132 mg, ^1H NMR (500 MHz, CDCl_3): δ = 7.36-6.88 (m, 8H), 3.47 (s, 3H), 2.30 (s, 3H), 1.03-0.94 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz, CDCl_3): δ = 172.2, 139.6, 137.5, 136.7, 129.1, 129.0, 128.9, 128.4, 127.4, 126.5, 126.2, 38.5, 21.6, 7.8, 3.9. HRMS (EI): m/z calcd for $\text{C}_{21}\text{H}_{30}\text{NOSi} [\text{M}+\text{H}]^+$ 340.2091, found 340.2094.

4-ethoxy-N-methyl-N-phenyl-2-(triethylsilyl)benzamide (2b)



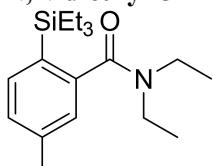
Brown oil, yield = 72%, 133 mg, ^1H NMR (500 MHz, CDCl_3): δ = 7.28-7.24 (m, 2H), 7.15-7.08 (m, 4H), 6.90 (brs, 1H), 6.55 (brs, 1H), 4.00-3.96 (m, 2H), 3.47 (s, 3H), 1.40 (t, 3H, J = 7.0 Hz), 1.03-0.94 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz, CDCl_3): δ = 172.0, 158.3, 145.0, 139.4, 134.5, 129.9, 129.1, 126.6, 126.2, 122.6, 112.5, 63.3, 38.8, 14.9, 7.9, 3.9. HRMS (EI): m/z calcd for $\text{C}_{22}\text{H}_{32}\text{NO}_2\text{Si} [\text{M}+\text{H}]^+$ 370.2197, found 370.2199.

4-fluoro-N-methyl-N-phenyl-2-(triethylsilyl)benzamide (2c)



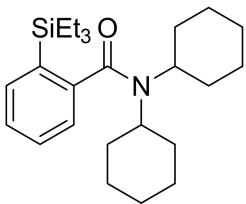
Brown oil, yield = 52%, 89 mg, ^1H NMR (500 MHz, CDCl_3): δ = 7.34-6.71 (m, 8H), 3.48 (s, 3H), 1.03-0.95 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz, CDCl_3): δ = 171.2, 163.1, 161.1, 144.5, 141.2, 138.4, 130.2, 129.3, 126.6 (J_{CF} = 8.8 Hz), 122.6 (J_{CF} = 18.9 Hz), 114.6, 38.3, 7.8, 3.8. ^{19}F NMR (470 MHz, CDCl_3): δ = 112.8 Hz. HRMS (EI): m/z calcd for $\text{C}_{20}\text{H}_{27}\text{NOFSi} [\text{M}+\text{H}]^+$ 344.1840, found 344.1841.

N,N-diethyl-5-methyl-2-(triethylsilyl)benzamide (2d)



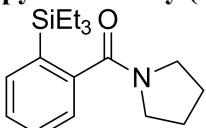
Light yellow oil, yield = 70%, 107 mg, ^1H NMR (500 MHz, CDCl_3): δ = 7.46 (d, 1H, J = 7.5 Hz), 7.17 (d, 1H, J = 7.5 Hz), 7.03 (s, 1H), 3.56 (d, 2H, J = 7.0 Hz), 3.18 (d, 2H, J = 7.0 Hz), 2.35 (s, 3H), 1.29 (t, 3H, J = 7.0 Hz), 1.12 (t, 3H, J = 7.0 Hz), 0.93 (t, 9H, J = 8.0 Hz), 0.84-0.79 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz, CDCl_3): δ = 172.6, 143.6, 138.4, 136.2, 130.9, 128.6, 126.6, 43.6, 39.0, 21.4, 13.9, 12.8, 7.6, 3.6. HRMS (EI): m/z calcd for $\text{C}_{18}\text{H}_{32}\text{NOSi} [\text{M}+\text{H}]^+$ 306.2248, found 306.2249.

N,N-dicyclohexyl-2-(triethylsilyl)benzamide (2e)



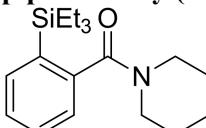
Light yellow oil, yield = 60%, 121 mg, ^1H NMR (400 MHz, CDCl_3): δ = 7.58-7.56 (m, 1H), 7.33-7.28 (m, 2H), 7.16-7.14 (m, 1H), 3.27 (t, 1H, J = 11.6 Hz), 3.02 (t, 1H, J = 12.0 Hz), 2.78-2.61 (m, 2H), 1.85-1.45 (m, 12H), 1.31-1.28 (m, 4H), 1.09-0.86 (m, 17H). $^{13}\text{C}\{\text{H}\}$ NMR (100 MHz, CDCl_3): δ = 172.7, 145.2, 136.2, 135.0, 128.2, 127.4, 125.3, 59.9, 56.3, 31.3, 26.9, 25.8, 25.5, 7.7, 3.9. HRMS (EI): m/z calcd for $\text{C}_{25}\text{H}_{42}\text{NOSi} [\text{M}+\text{H}]^+$ 400.3036, found 400.3010.

pyrrolidin-1-yl(2-(triethylsilyl)phenyl)methanone (2f)



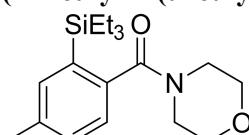
Colorless oil, yield = 52%, 75 mg, ^1H NMR (300 MHz, CDCl_3): δ = 7.59-7.56 (m, 1H), 7.36-7.24 (m, 3H), 3.63 (t, 2H, J = 6.6 Hz), 3.23 (t, 2H, J = 6.6 Hz), 1.99-1.83 (m, 4H), 0.97-0.81 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (75 MHz, CDCl_3): δ = 171.1, 144.2, 136.1, 134.8, 128.5, 127.9, 126.1, 49.5, 45.8, 26.2, 24.7, 7.6, 3.6. HRMS (EI): m/z calcd for $\text{C}_{27}\text{H}_{28}\text{NOSi} [\text{M}+\text{H}]^+$ 290.1940, found 290.1921.

piperidin-1-yl(2-(triethylsilyl)phenyl)methanone (2g)



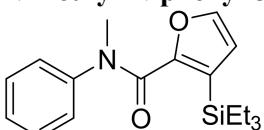
Colorless oil, yield = 67%, 102 mg, ^1H NMR (600 MHz, CDCl_3): δ = 7.57-7.55 (m, 1H), 7.34-7.32 (m, 2H), 7.18-7.17 (m, 1H), 1.67-1.63 (m, 6H), 1.53-1.44 (m, 2H), 1.28-1.19 (m, 2H), 0.92 (t, 9H, J = 7.8 Hz), 0.89-0.82 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (150 MHz, CDCl_3): δ = 171.4, 143.1, 136.2, 135.3, 128.5, 127.8, 126.0, 48.7, 42.6, 26.3, 25.7, 24.8, 7.7, 3.7. HRMS (EI): m/z calcd for $\text{C}_{18}\text{H}_{30}\text{NOSi} [\text{M}+\text{H}]^+$ 304.2091, found 304.2093.

(4-methyl-2-(triethylsilyl)phenyl)(morpholino)methanone (2h)



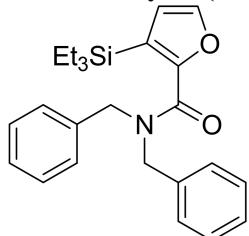
White solid, yield = 78%, 124 mg, ^1H NMR (500 MHz, CDCl_3): δ = 7.38 (s, 1H), 7.18-7.16 (m, 1H), 7.09 (d, 1H, J = 7.5 Hz), 3.88-3.71 (m, 4H), 3.62 (t, 2H, J = 4.5 Hz), 3.44-3.24 (m, 2H), 2.38 (s, 3H), 0.95 (t, 9H, J = 8.0 Hz), 0.86-0.82 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz, CDCl_3): δ = 171.8, 138.9, 137.8, 137.1, 135.7, 129.1, 126.3, 66.9, 66.7, 48.1, 42.1, 21.6, 7.7, 3.7. HRMS (EI): m/z calcd for $\text{C}_{18}\text{H}_{30}\text{NO}_2\text{Si} [\text{M}+\text{H}]^+$ 320.2040, found 320.2042.

N-methyl-N-phenyl-3-(triethylsilyl)furan-2-carboxamide (2i)



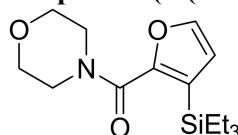
Green solid, yield = 83%, 131 mg, ^1H NMR (600 MHz, CDCl_3): δ = 7.30-7.28 (m, 2H), 7.21-7.18 (m, 1H), 7.08-7.03 (m, 3H), 6.31 (s, 1H), 3.43 (s, 3H), 0.97 (t, 9H, J = 7.8 Hz), 0.90-0.86 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (150 MHz, CDCl_3): δ = 161.3, 152.2, 144.8, 142.4, 129.1, 126.5, 126.1, 123.2, 116.7, 38.5, 7.7, 3.5. HRMS (EI): m/z calcd for $\text{C}_{18}\text{H}_{26}\text{NO}_2\text{Si} [\text{M}+\text{H}]^+$ 316.1727, found 316.1729.

N,N-dibenzyl-3-(triethylsilyl)furan-2-carboxamide (2j)



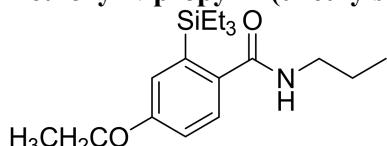
Colorless oil, yield = 88%, 178 mg, ^1H NMR (500 MHz, CDCl_3): δ = 7.44-7.34 (m, 11H), 6.52 (d, 1H, J = 1.5 Hz), 4.66 (s, 2H), 4.60 (s, 2H), 0.96-0.91 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz, CDCl_3): δ = 162.5, 152.3, 142.3, 137.0, 128.8, 128.7, 127.8, 127.7, 127.6, 122.9, 117.1, 50.9, 47.8, 7.7, 3.5. HRMS (EI): m/z calcd for $\text{C}_{25}\text{H}_{32}\text{NO}_2\text{Si} [\text{M}+\text{H}]^+$ 406.2202, found 406.2199.

morpholino(3-(triethylsilyl)furan-2-yl)methanone (2k)



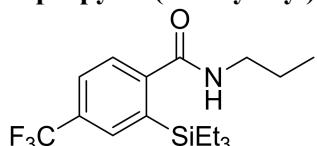
Red oil, yield = 85%, 125 mg, ^1H NMR (500 MHz, CDCl_3): δ = 7.45 (d, 1H, J = 1.5 Hz), 8.45 (d, 1H, J = 1.5 Hz), 3.72-3.63 (m, 8H), 0.93 (t, 9H, J = 8.5 Hz), 0.84-0.79 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz, CDCl_3): δ = 161.0, 151.8, 142.2, 122.2, 116.8, 67.2, 47.5, 43.1, 7.6, 3.5. HRMS (EI): m/z calcd for $\text{C}_{15}\text{H}_{26}\text{NO}_3\text{Si} [\text{M}+\text{H}]^+$ 296.1676, found 296.1678.

4-ethoxy-N-propyl-2-(triethylsilyl)benzamide (2l)



Light yellow solid, yield = 77%, 124 mg, ^1H NMR (500 MHz, CDCl_3): δ = 7.40 (d, 1H, J = 8.0 Hz), 7.12 (d, 1H, J = 2.5 Hz), 6.83-6.81 (m, 1H), 5.89 (s, 1H), 4.09-4.04 (m, 2H), 3.39-3.35 (m, 2H), 1.66-1.62 (m, 2H), 1.45 (t, 3H, J = 7.0 Hz), 0.99 (t, 3H, J = 7.5 Hz), 0.96-0.87 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz, CDCl_3): δ = 171.1, 159.5, 139.0, 135.6, 128.0, 123.4, 113.1, 63.5, 42.0, 23.0, 14.9, 11.6, 7.9, 4.0. HRMS (EI): m/z calcd for $\text{C}_{18}\text{H}_{31}\text{NO}_2\text{NaSi} [\text{M}+\text{Na}]^+$ 344.2016, found 344.2018.

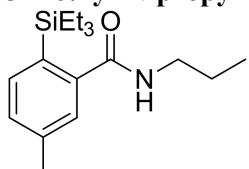
N-propyl-2-(triethylsilyl)-4-(trifluoromethyl)benzamide (2m)



Dark green solid, yield = 67%, 115 mg, ^1H NMR (600 MHz, CDCl_3): δ = 7.79 (s, 1H), 7.60 (d, 1H, J = 7.8 Hz), 7.50 (d, 1H, J = 7.8 Hz), 5.91 (s, 1H), 3.41-3.38 (m, 2H), 1.68-1.62 (m, 2H), 0.99 (t, 3H, J = 7.2 Hz), 0.95-0.88 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (150

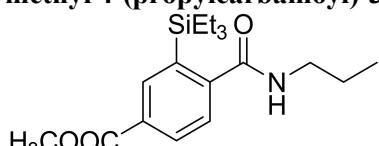
MHz, CDCl₃): δ = 170.4, 146.8, 138.3, 132.9 (q, *J*_{CF} = 3.6 Hz), 130.9 (q, *J*_{CF} = 32.0 Hz), 126.6, 125.7 (q, *J*_{CF} = 3.5 Hz), 125.1 (q, *J*_{CF} = 271.1 Hz), 42.1, 22.9, 11.6, 7.8, 3.8. HRMS (EI): *m/z* calcd for C₁₇H₂₆NOF₃NaSi [M+Na]⁺ 368.1628, found 368.1630.

5-methyl-N-propyl-2-(triethylsilyl)benzamide (2n)



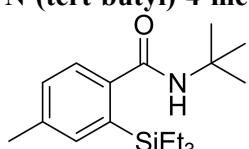
Colorless oil, yield = 55%, 80 mg, ¹H NMR (500 MHz, CDCl₃): δ = 7.39 (d, 1H, *J* = 1.5 Hz), 7.34 (d, 1H, *J* = 7.5 Hz), 7.19-7.17 (m, 1H), 5.85 (s, 1H), 3.42-3.38 (m, 2H), 2.39 (s, 3H), 1.68-1.63 (m, 2H), 1.00 (t, 3H, *J* = 7.5 Hz), 0.96-0.87 (m, 15H). ¹³C{¹H} NMR (125 MHz, CDCl₃): δ = 171.6, 140.7, 139.0, 137.4, 136.5, 129.3, 126.4, 42.0, 23.0, 21.7, 11.7, 8.0, 4.0. HRMS (EI): *m/z* calcd for C₁₇H₂₉NONaSi [M+Na]⁺ 314.1910, found 314.1913.

methyl 4-(propylcarbamoyl)-3-(triethylsilyl)benzoate (2o)



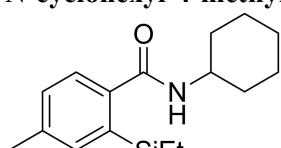
Colorless oil, yield = 75%, 125 mg, ¹H NMR (500 MHz, CDCl₃): δ = 8.24 (d, 1H, *J* = 1.5 Hz), 8.01-7.99 (m, 1H), 7.47 (d, 1H, *J* = 8.0 Hz), 6.00 (s, 1H), 3.94 (s, 3H), 3.42-3.38 (m, 2H), 1.68-1.64 (m, 2H), 1.01 (t, 3H, *J* = 7.5 Hz), 0.95-0.90 (m, 15H). ¹³C{¹H} NMR (125 MHz, CDCl₃): δ = 170.8, 167.0, 147.5, 137.5, 137.1, 130.3, 130.0, 126.4, 52.5, 42.0, 22.9, 11.6, 7.8, 3.8. HRMS (EI): *m/z* calcd for C₁₈H₂₉NO₃NaSi [M+Na]⁺ 358.1809, found 358.1810.

N-(tert-butyl)-4-methyl-2-(triethylsilyl)benzamide (2p)



Colorless oil, yield = 68%, 104 mg, ¹H NMR (600 MHz, CDCl₃): δ = 7.35 (s, 1H), 7.28 (d, 1H, *J* = 7.8 Hz), 7.13 (d, 1H, *J* = 7.8 Hz), 5.63 (s, 1H), 2.36 (s, 3H), 1.46 (s, 9H), 0.94-0.89 (m, 15H). ¹³C{¹H} NMR (150 MHz, CDCl₃): δ = 171.2, 142.0, 138.7, 137.3, 136.3, 129.1, 126.6, 51.7, 29.0, 21.7, 8.0, 4.1. HRMS (EI): *m/z* calcd for C₁₈H₃₂NO₃Si [M+H]⁺ 306.2248, found 306.2249.

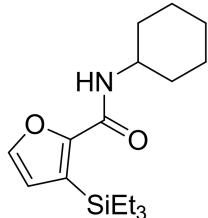
N-cyclohexyl-4-methyl-2-(triethylsilyl)benzamide (2q)



Light yellow solid, yield = 78%, 129 mg, ¹H NMR (600 MHz, CDCl₃): δ = 7.37 (s, 1H), 7.29 (d, 1H, *J* = 7.8 Hz), 7.13 (d, 1H, *J* = 7.8 Hz), 5.70 (s, 1H), 3.95-3.90 (m, 1H), 2.36 (s, 3H), 2.04-2.02 (m, 2H), 1.75-1.73 (m, 2H), 1.44-1.42 (m, 2H), 1.26-1.21 (m, 4H), 0.92-0.89 (m, 15H). ¹³C{¹H} NMR (150 MHz, CDCl₃): δ = 170.7, 140.9, 138.9, 137.3,

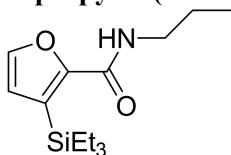
136.4, 129.2, 126.4, 48.7, 33.3, 25.7, 25.0, 21.7, 8.0, 4.1. HRMS (EI): *m/z* calcd for C₂₀H₃₄NOSi [M+H]⁺ 332.2404, found 332.2405.

N-cyclohexyl-3-(triethylsilyl)furan-2-carboxamide (2r)



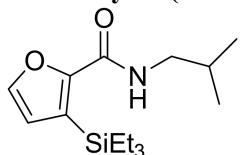
Yellow oil, yield = 82%, 126 mg, ¹H NMR (600 MHz, CDCl₃): δ = 7.33 (d, 1H, *J* = 0.6 Hz), 6.39 (d, 1H, *J* = 1.2 Hz), 6.25 (s, 1H), 3.87-3.81 (m, 1H), 1.93-1.91 (m, 2H), 1.68-1.65 (m, 2H), 1.35-1.29 (m, 2H), 1.18-1.10 (m, 4H), 0.93-0.79 (m, 15H). ¹³C{¹H} NMR (150 MHz, CDCl₃): δ = 158.2, 151.8, 142.5, 121.9, 118.0, 47.9, 33.5, 25.7, 25.1, 7.7, 3.4. HRMS (EI): *m/z* calcd for C₁₇H₃₀NO₂Si [M+H]⁺ 308.2040, found 308.2043.

N-propyl-3-(triethylsilyl)furan-2-carboxamide (2s)



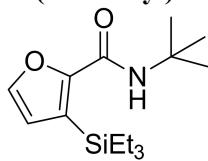
Brown oil, yield = 62%, 83 mg, ¹H NMR (500 MHz, CDCl₃): δ = 7.42 (d, 1H, *J* = 2.0 Hz), 6.47 (d, 1H, *J* = 1.5 Hz), 6.46 (s, 1H), 3.39-3.35 (m, 2H), 1.65-1.58 (m, 2H), 0.97-0.88 (m, 18H). ¹³C{¹H} NMR (150 MHz, CDCl₃): δ = 159.1, 151.8, 142.6, 122.1, 118.0, 41.0, 23.2, 11.5, 7.7, 3.4. HRMS (EI): *m/z* calcd for C₁₅H₂₆NO₂Si [M+H]⁺ 268.1727, found 268.1728.

N-isobutyl-3-(triethylsilyl)furan-2-carboxamide (2t)



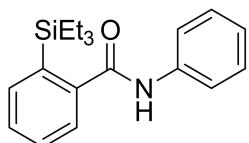
Orange oil, yield = 82%, 115 mg, ¹H NMR (500 MHz, CDCl₃): δ = 7.44 (d, 1H, *J* = 1.5 Hz), 6.52 (s, 1H), 6.49 (d, 1H, *J* = 1.5 Hz), 3.25 (t, 2H, *J* = 6.5 Hz), 1.90-1.85 (m, 1H), 0.98 (s, 3H), 0.97 (s, 3H), 0.95-0.88 (m, 15H). ¹³C{¹H} NMR (125 MHz, CDCl₃): δ = 159.1, 151.7, 142.6, 122.0, 118.0, 46.5, 28.9, 20.3, 7.7, 3.4. HRMS (EI): *m/z* calcd for C₁₅H₂₈NO₂Si [M+H]⁺ 282.1884, found 282.1885.

N-(tert-butyl)-3-(triethylsilyl)furan-2-carboxamide (2u)



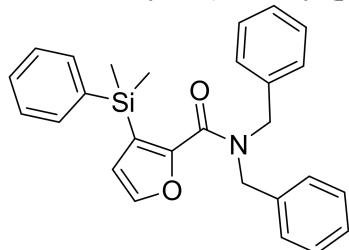
Orange oil, yield = 65%, 91 mg, ¹H NMR (500 MHz, CDCl₃): δ = 7.41 (d, 1H, *J* = 1.0 Hz), 6.46 (d, 1H, *J* = 1.5 Hz), 6.28 (s, 1H), 1.46 (s, 9H), 0.96-0.89 (m, 15H). ¹³C{¹H} NMR (125 MHz, CDCl₃): δ = 158.5, 152.6, 142.1, 120.9, 117.9, 51.3, 29.1, 7.8, 3.4. HRMS (EI): *m/z* calcd for C₁₅H₂₈NO₂Si [M+H]⁺ 282.1884, found 282.1886.

N-phenyl-2-(triethylsilyl)benzamide (2v)



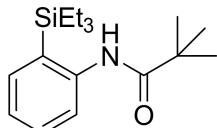
Colorless oil, yield = 40%, 62 mg, ^1H NMR (500 MHz, CDCl_3): δ = 7.67-7.39 (m, 8H), 7.19 (t, 1H, J = 7.5 Hz), 1.01-0.88 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz, CDCl_3): δ = 169.6, 143.6, 138.2, 136.7, 136.5, 129.6, 129.3, 128.9, 126.4, 124.7, 120.1, 7.8, 4.0. HRMS (EI): m/z calcd for $\text{C}_{19}\text{H}_{26}\text{NOSi} [\text{M}+\text{H}]^+$ 312.1784, found 312.1771.

N,N-dibenzyl-3-(dimethyl(phenyl)silyl)furan-2-carboxamide (2w)



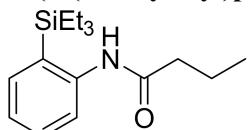
Colorless oil, yield = 64%, 136 mg, ^1H NMR (500 MHz, CDCl_3): δ = 7.73-7.71 (m, 1H), 7.48-7.22 (m, 15H), 6.43 (d, 1H, J = 1.5 Hz), 4.65 (s, 4H), 0.74 (s, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz, CDCl_3): δ = 161.8, 152.6, 142.4, 138.4, 134.3, 129.1, 128.8, 128.7, 128.5, 127.8, 127.7, 117.3, 50.7, 48.0, 1.9. HRMS (EI): m/z calcd for $\text{C}_{27}\text{H}_{28}\text{NO}_2\text{Si} [\text{M}+\text{H}]^+$ 426.1889, found 426.1890.

N-(2-(triethylsilyl)phenyl)pivalamide (4a)



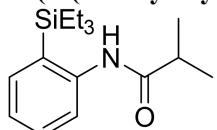
Colorless solid, yield = 57%, 42 mg, ^1H NMR (300 MHz, CDCl_3): δ = 7.91 (d, 1H, J = 8.1 Hz), 7.45-7.37 (m, 3H), 7.19-7.13 (m, 1H), 1.35 (s, 9H), 1.03-0.86 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (75 MHz, CDCl_3): δ = 176.6, 142.9, 135.8, 130.2, 127.9, 124.7, 124.1, 39.7, 27.8, 7.6, 4.1. HRMS (EI): m/z calcd for $\text{C}_{17}\text{H}_{30}\text{NOSi} [\text{M}+\text{H}]^+$ 292.2097, found 292.2088.

N-(2-(triethylsilyl)phenyl)butyramide (4b)



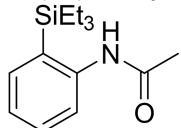
Yellow solid, yield = 40%, 28 mg, ^1H NMR (300 MHz, CDCl_3): δ = 7.94 (d, 1H, J = 8.1 Hz), 7.44-7.37 (m, 2H), 7.18-7.13 (m, 2H), 2.34 (t, 2H, J = 7.5 Hz), 1.84-1.74 (m, 2H), 1.07-0.84 (m, 18H). $^{13}\text{C}\{\text{H}\}$ NMR (75 MHz, CDCl_3): δ = 171.1, 142.7, 135.8, 130.3, 127.6, 124.7, 123.5, 40.0, 19.2, 14.0, 7.6, 4.3. HRMS (EI): m/z calcd for $\text{C}_{16}\text{H}_{27}\text{NONaSi} [\text{M}+\text{Na}]^+$ 300.1760, found 300.1756.

N-(2-(triethylsilyl)phenyl)isobutyramide (4c)



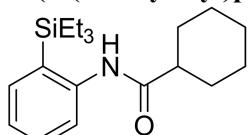
Colorless solid, yield = 39%, 27 mg, ^1H NMR (300 MHz, CDCl_3): δ = 7.98 (d, 1H, J = 7.8 Hz), 7.44-7.37 (m, 2H), 7.22-7.13 (m, 2H), 2.54-2.45 (m, 1H), 1.29 (d, 6H, J = 6.9 Hz), 1.03-0.97 (m, 9H), 0.93-0.84 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (75 MHz, CDCl_3): δ = 175.0, 142.9, 135.8, 130.3, 124.6, 123.4, 37.2, 19.8, 7.6, 4.3. HRMS (EI): m/z calcd for $\text{C}_{16}\text{H}_{28}\text{NOSi} [\text{M}+\text{H}]^+$ 278.1940, found 278.1934.

N-(2-(triethylsilyl)phenyl)acetamide (4d)



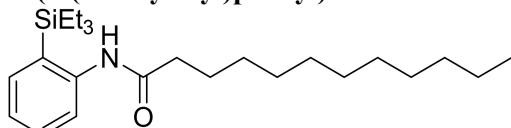
Colorless solid, yield = 37%, 23 mg, ^1H NMR (400 MHz, CDCl_3): δ = 7.86 (d, 1H, J = 8.0 Hz), 7.45-7.39 (m, 2H), 7.20-7.16 (m, 2H), 2.19 (s, 3H), 1.00 (t, 9H, J = 7.6 Hz), 0.91-0.85 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (100 MHz, CDCl_3): δ = 168.2, 142.6, 135.8, 130.3, 128.2, 125.0, 124.0, 24.6, 7.6, 4.3. HRMS (EI): m/z calcd for $\text{C}_{14}\text{H}_{24}\text{NOSi} [\text{M}+\text{H}]^+$ 250.1627, found 250.1620.

N-(2-(triethylsilyl)phenyl)cyclohexanecarboxamide (4e)



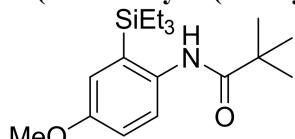
White solid, yield = 42%, 33 mg, ^1H NMR (500 MHz, CDCl_3): δ = 7.95 (d, 1H, J = 8.0 Hz), 7.46-7.38 (m, 2H), 7.19-7.14 (m, 2H), 2.25-2.19 (m, 1H), 2.02-1.99 (m, 2H), 1.90-1.87 (m, 2H), 1.61-1.54 (m, 3H), 1.34-1.28 (m, 3H), 1.04-0.97 (m, 9H), 0.91-0.86 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (125 MHz, CDCl_3): δ = 174.2, 142.9, 135.8, 130.3, 129.2, 124.7, 123.6, 47.1, 29.9, 25.95, 25.93, 25.88, 7.7, 4.3. HRMS (EI): m/z calcd for $\text{C}_{19}\text{H}_{31}\text{NONaSi} [\text{M}+\text{Na}]^+$ 340.2073, found 340.2071.

N-(2-(triethylsilyl)phenyl)dodecanamide (4f)



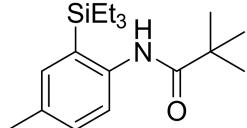
Light yellow oil, yield = 35%, 34 mg, ^1H NMR (400 MHz, CDCl_3): δ = 7.95 (d, 1H, J = 8.0 Hz), 7.44-7.38 (m, 2H), 7.18-7.14 (m, 2H), 2.36 (t, 2H, J = 7.6 Hz), 1.78-1.73 (m, 2H), 1.45-1.28 (m, 16H), 0.99 (t, 9H, J = 7.6 Hz), 0.92-0.85 (m, 9H). $^{13}\text{C}\{\text{H}\}$ NMR (100 MHz, CDCl_3): δ = 171.3, 142.8, 135.8, 130.3, 127.5, 124.7, 123.4, 38.1, 32.1, 29.8, 29.7, 29.6, 29.5, 25.8, 22.9, 14.3, 7.7, 4.3. HRMS (EI): m/z calcd for $\text{C}_{24}\text{H}_{44}\text{NOSi} [\text{M}+\text{H}]^+$ 390.3192, found 390.3181.

N-(4-methoxy-2-(triethylsilyl)phenyl)pivalamide (4g)



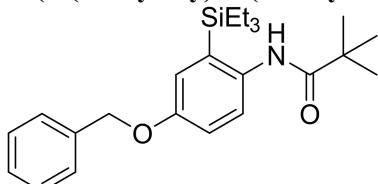
Light yellow solid, yield = 52%, 42 mg, ^1H NMR (300 MHz, CDCl_3): δ = 7.66 (d, 1H, J = 8.7 Hz), 7.20 (brs, 1H), 6.98-6.89 (m, 2H), 3.81 (s, 3H), 1.34 (s, 9H), 1.01-0.95 (m, 9H), 0.90-0.85 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (75 MHz, CDCl_3): δ = 176.8, 156.6, 135.7, 131.1, 126.6, 121.6, 114.4, 55.5, 39.5, 27.9, 7.6, 4.0. HRMS (EI): m/z calcd for $\text{C}_{18}\text{H}_{32}\text{NO}_2\text{Si} [\text{M}+\text{H}]^+$ 322.2202, found 322.2199.

N-(4-methyl-2-(triethylsilyl)phenyl)pivalamide (4h)



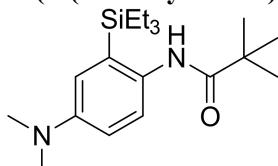
Colorless oil, yield = 52%, 40 mg, ^1H NMR (300 MHz, CDCl_3): δ = 7.72 (d, 1H, J = 8.1 Hz), 7.28 (s, 1H), 7.21-7.18 (m, 2H), 2.34 (s, 3H), 1.34 (s, 9H), 1.02-0.86 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (75 MHz, CDCl_3): δ = 176.7, 140.4, 136.3, 134.1, 130.8, 128.3, 124.5, 39.6, 27.9, 21.2, 7.7, 4.1. HRMS (EI): m/z calcd for $\text{C}_{18}\text{H}_{32}\text{NOSi} [\text{M}+\text{H}]^+$ 306.2253, found 306.2244.

N-(4-(benzyloxy)-2-(triethylsilyl)phenyl)pivalamide (4i)



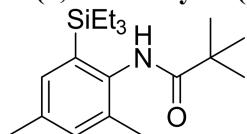
Colorless oil, yield = 58%, 58 mg, ^1H NMR (300 MHz, CDCl_3): δ = 7.67 (d, 1H, J = 8.7 Hz), 7.48-7.34 (m, 5H), 7.22 (brs, 1H), 7.04-6.98 (m, 2H), 5.07 (s, 2H), 1.34 (s, 9H), 1.01-0.84 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (75 MHz, CDCl_3): δ = 176.8, 155.8, 137.2, 135.9, 131.1, 128.7, 128.1, 127.7, 126.5, 122.5, 115.7, 70.4, 39.5, 27.9, 7.6, 4.0. HRMS (EI): m/z calcd for $\text{C}_{24}\text{H}_{36}\text{NO}_2\text{Si} [\text{M}+\text{H}]^+$ 398.2515, found 398.2510.

N-(4-(dimethylamino)-2-(triethylsilyl)phenyl)pivalamide (4j)



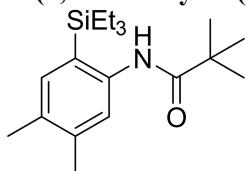
Colorless solid, yield = 44%, 37 mg, ^1H NMR (300 MHz, CDCl_3): δ = 7.54 (d, 1H, J = 8.7 Hz), 7.15 (brs, 1H), 6.83-6.77 (m, 2H), 2.95 (s, 3H), 1.34 (s, 9H), 1.03-0.85 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (75 MHz, CDCl_3): δ = 176.8, 148.0, 130.3, 126.5, 119.8, 114.5, 41.1, 39.4, 27.9, 7.7, 4.2. HRMS (EI): m/z calcd for $\text{C}_{19}\text{H}_{35}\text{N}_2\text{OSi} [\text{M}+\text{H}]^+$ 335.2519, found 335.1516.

N-(2,4-dimethyl-6-(triethylsilyl)phenyl)pivalamide (4k)



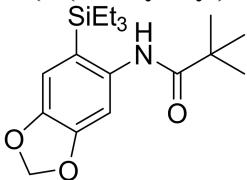
Colorless oil, yield = 41%, 33 mg, ^1H NMR (300 MHz, CDCl_3): δ = 7.11 (s, 1H), 7.09 (s, 1H), 7.03 (brs, 1H), 2.33 (s, 3H), 2.15 (s, 3H), 1.36 (s, 9H), 1.00-0.94 (m, 9H), 0.86-0.81 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (75 MHz, CDCl_3): δ = 176.4, 138.1, 136.3, 136.1, 134.4, 134.3, 133.1, 39.4, 28.0, 21.2, 18.6, 7.7, 4.1. HRMS (EI): m/z calcd for $\text{C}_{19}\text{H}_{34}\text{NOSi} [\text{M}+\text{H}]^+$ 320.2410, found 320.2407.

N-(4,5-dimethyl-2-(triethylsilyl)phenyl)pivalamide (4l)



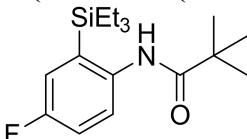
Colorless solid, yield = 48%, 38 mg, ^1H NMR (400 MHz, CDCl_3): δ = 7.67 (s, 1H), 7.26 (brs, 1H), 7.16 (s, 1H), 2.27 (s, 3H), 2.25 (s, 3H), 1.35 (s, 9H), 1.01-0.97 (m, 9H), 0.90-0.86 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (100 MHz, CDCl_3): δ = 176.6, 140.8, 138.8, 136.7, 133.0, 125.6, 125.1, 39.6, 27.9, 20.0, 19.5, 7.7, 4.2. HRMS (EI): m/z calcd for $\text{C}_{19}\text{H}_{34}\text{NOSi} [\text{M}+\text{H}]^+$ 320.2410, found 320.2400.

N-(6-(triethylsilyl)benzo[d][1,3]dioxol-5-yl)pivalamide (4m)



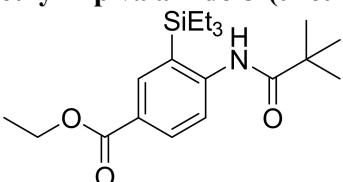
Light yellow solid, yield = 45%, 38 mg, ^1H NMR (300 MHz, CDCl_3): δ = 7.32 (s, 1H), 7.23 (brs, 1H), 6.85 (s, 1H), 5.96 (s, 2H), 1.33 (s, 9H), 1.00-0.94 (m, 9H), 0.88-0.82 (m, 6H). $^{13}\text{C}\{\text{H}\}$ NMR (75 MHz, CDCl_3): δ = 176.7, 149.1, 145.2, 137.5, 121.2, 113.7, 107.2, 101.4, 39.6, 27.9, 7.6, 4.1. HRMS (EI): m/z calcd for $\text{C}_{18}\text{H}_{30}\text{NO}_3\text{Si} [\text{M}+\text{H}]^+$ 336.1995, found 336.1996.

N-(4-fluoro-2-(triethylsilyl)phenyl)pivalamide (4n)



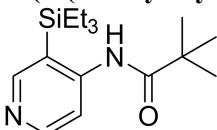
White solid, yield = 56%, 43 mg, ^1H NMR (300 MHz, CDCl_3): δ = 7.79-7.75 (m, 1H), 7.26 (brs, 1H), 7.12-7.02 (m, 2H), 1.34 (s, 9H), 1.02-0.86 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (75 MHz, CDCl_3): δ = 176.8, 158.3 ($J_{\text{CF}} = 244.7$ Hz), 138.6 ($J_{\text{CF}} = 2.6$ Hz), 131.8 ($J_{\text{CF}} = 4.0$ Hz), 126.7 ($J_{\text{CF}} = 7.2$ Hz), 121.6 ($J_{\text{CF}} = 20.3$ Hz), 116.6 ($J_{\text{CF}} = 22.2$ Hz), 39.6, 27.8, 7.5, 3.9. ^{19}F NMR (376 MHz, CDCl_3): δ = 118.1 Hz. HRMS (EI): m/z calcd for $\text{C}_{17}\text{H}_{29}\text{NOFSi} [\text{M}+\text{H}]^+$ 310.2003, found 310.1991.

ethyl 4-pivalamido-3-(triethylsilyl)benzoate (4o)



Light yellow oil, yield = 77%, 70 mg, ^1H NMR (400 MHz, CDCl_3): δ = 8.21 (d, 1H, J = 8.8 Hz), 8.12 (d, 1H, J = 2.0 Hz), 8.06-8.03 (m, 1H), 7.52 (brs, 1H), 4.40-4.35 (m, 2H), 1.40 (t, 3H, J = 6.8 Hz), 1.35 (s, 9H), 1.01-0.92 (m, 15H). $^{13}\text{C}\{\text{H}\}$ NMR (100 MHz, CDCl_3): δ = 176.9, 166.6, 147.3, 137.5, 131.8, 126.4, 125.9, 122.0, 60.9, 40.0, 27.8, 14.5, 7.5, 4.0. HRMS (EI): m/z calcd for $\text{C}_{20}\text{H}_{34}\text{NO}_3\text{Si} [\text{M}+\text{H}]^+$ 364.2308, found 364.2295.

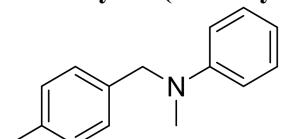
N-(3-(triethylsilyl)pyridin-4-yl)pivalamide (4p)



Orange solid, yield = 80%, 58 mg, ^1H NMR (400 MHz, CDCl_3): δ = 8.54-8.50 (m, 2H), 8.25 (d, 1H, J = 5.6 Hz), 7.49 (brs, 1H), 1.34 (s, 9H), 1.03-0.92 (m, 15H). $^{13}\text{C}\{\text{H}\}$

NMR (100 MHz, CDCl₃): δ = 177.1, 156.1, 151.8, 150.6, 119.1, 115.1, 40.2, 27.7, 7.4, 4.0. HRMS (EI): *m/z* calcd for C₁₆H₂₈N₂ONaSi [M+H]⁺ 315.1869, found 315.1859.

N-methyl-N-(4-methylbenzyl)aniline (1a')¹

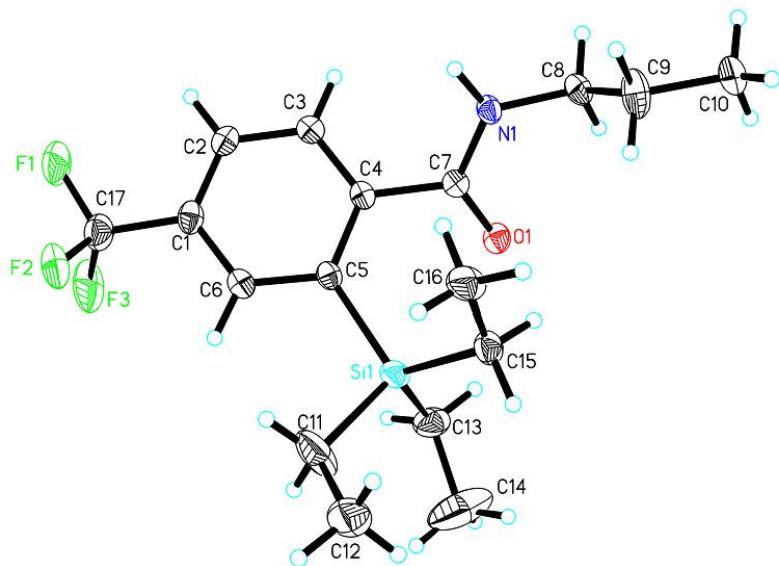


Colorless oil, yield = 85%, 90 mg, ¹H NMR (500 MHz, CDCl₃): δ = 7.34-7.23 (m, 6H), 6.87-6.81 (m, 3H), 4.60 (s, 2H), 3.10 (s, 3H), 2.44 (s, 3H). ¹³C{¹H} NMR (125 MHz, CDCl₃): δ = 149.9, 136.6, 136.0, 129.4, 129.3, 126.9, 116.6, 112.5, 56.5, 38.6, 21.2.

Reference

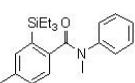
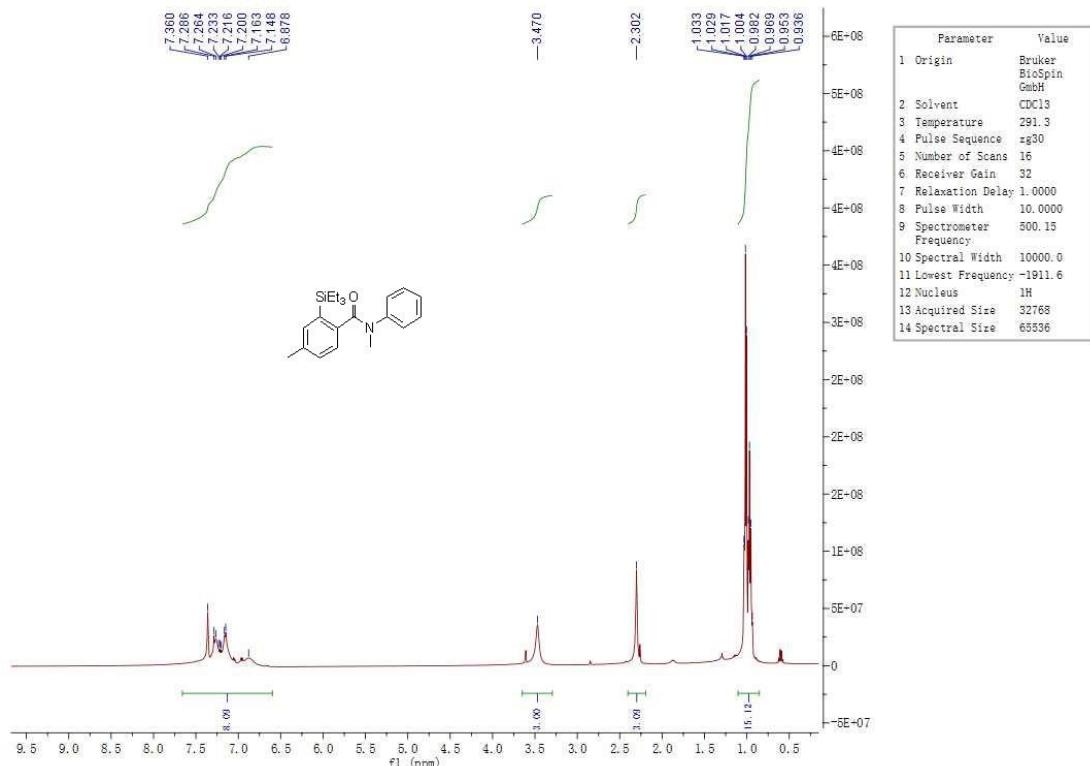
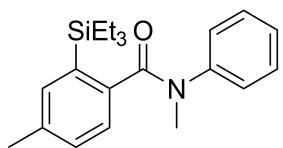
[1] Das, S.; Karmakar, H.; Bhattacharjee, J.; Panda, T. K. *Dalton Trans.* **2019**, 48, 11978.

Table of crystallographic data for 2m (CCDC 1940358)

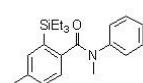
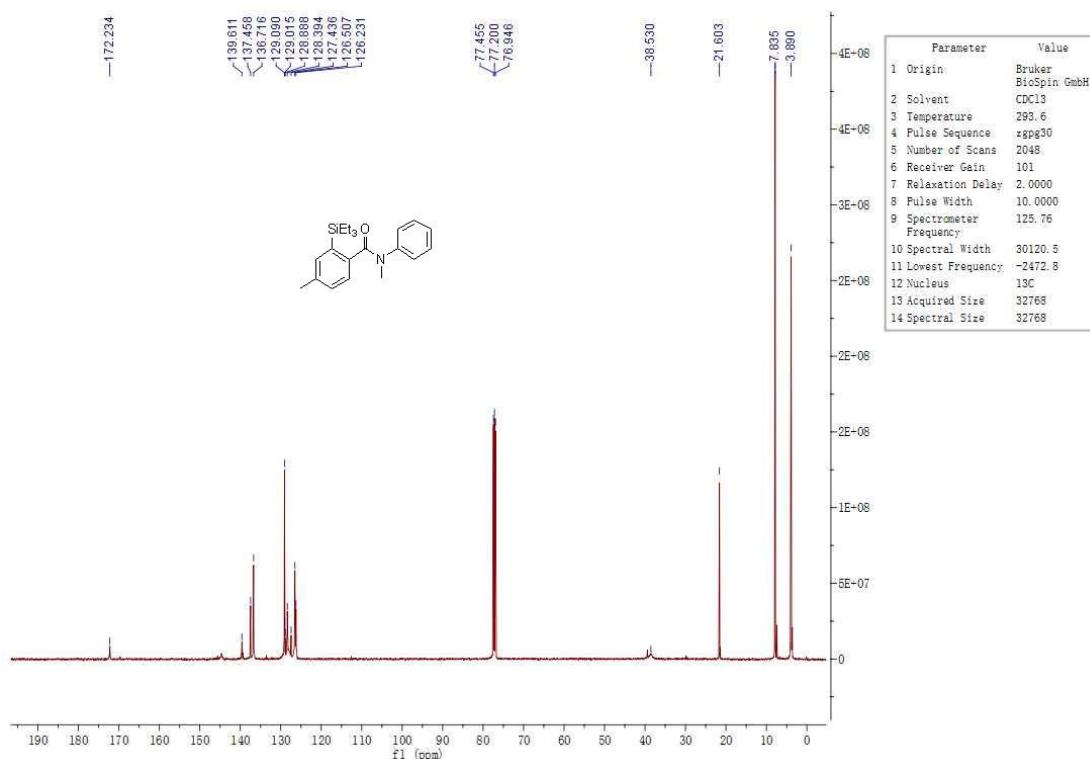


Complex	2m
Empirical formula	C17 H25 F3 N O Si
Formula weight	344.47
Temperature/K	120.00(10)
Crystal system	orthorhombic
Space group	P2 ₁ 2 ₁ 2 ₁
a/Å	8.2994(4)
b/Å	11.9792(9)
c/Å	18.8409(10)
α/°	90
β/°	90
γ/°	90
Volume/Å ³	1873.17(19)
Z	4
ρ _{calcd} /cm ³	1.221
μ/mm ⁻¹	0.155
F(000)	732.0
Crystal size/mm ³	0.15 × 0.14 × 0.12
Radiation	MoKα ($\lambda = 0.71073$)
2Θ range for data collection/°	4.03 to 49.992
Index ranges	-9 ≤ h ≤ 9, -11 ≤ k ≤ 14, -22 ≤ l ≤ 20
Reflections collected	11626
Independent reflections	3298 [$R_{\text{int}} = 0.0406$, $R_{\text{sigma}} = 0.0452$]
Data/restraints/parameters	3298/0/222
Goodness-of-fit on F^2	1.017
Final R indexes [I>=2σ (I)]	$R_1 = 0.0535$, $wR_2 = 0.1225$
Final R indexes [all data]	$R_1 = 0.0651$, $wR_2 = 0.1303$

N,4-dimethyl-N-phenyl-2-(triethylsilyl)benzamide (2a)

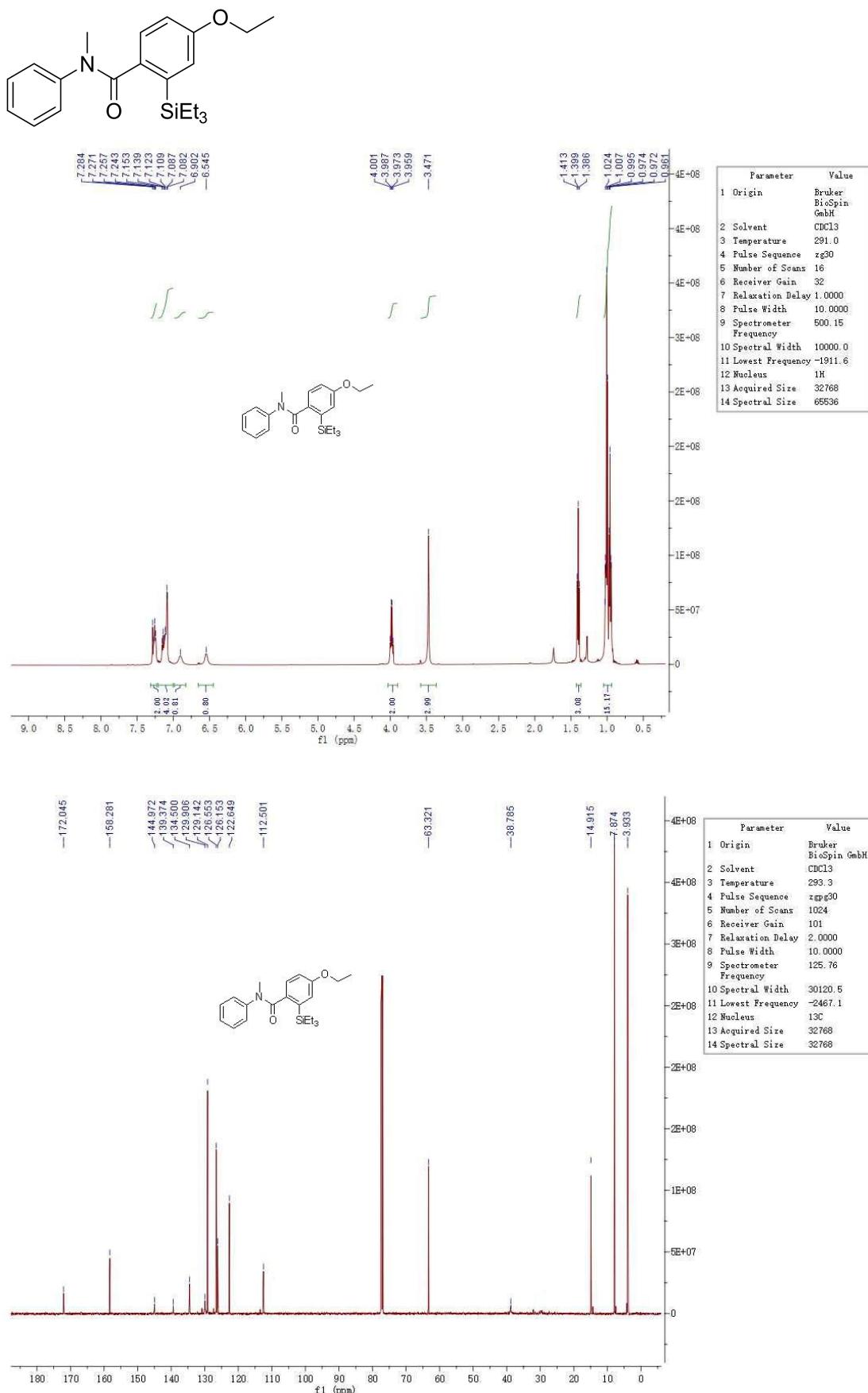


Parameter	Value
1 Origin	Bruker BioSpin GmbH
2 Solvent	CDCl ₃
3 Temperature	291.3
4 Pulse Sequence	zg30
5 Number of Scans	16
6 Receiver Gain	32
7 Relaxation Delay	1.0000
8 Pulse Width	10.0000
9 Spectrometer Frequency	500.15
10 Spectral Width	10000.0
11 Lowest Frequency	-1911.6
12 Nucleus	1H
13 Acquired Size	32768
14 Spectral Size	65536

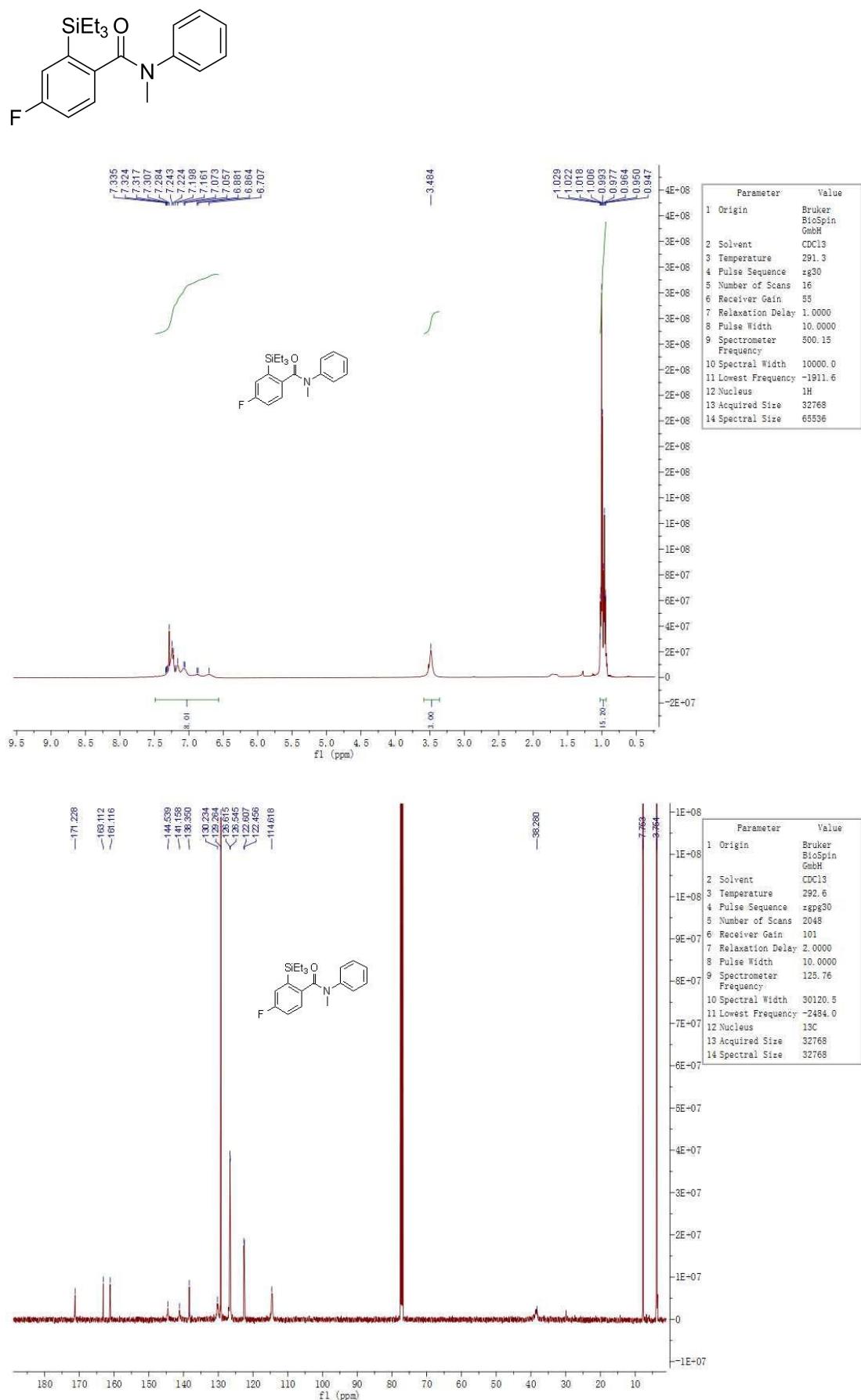


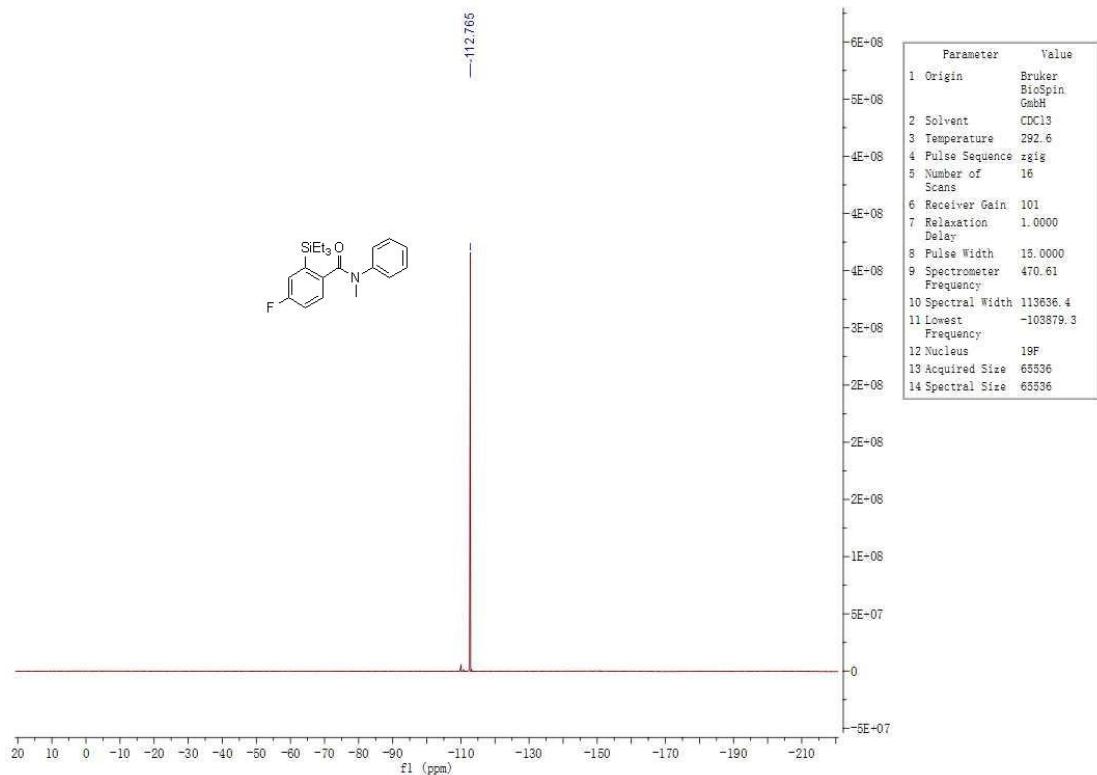
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2	Solvent	CDCl ₃
3	Temperature	293.6
4	Pulse Sequence	zgpp30
5	Number of Scans	2048
6	Receiver Gain	101
7	Relaxation Delay	2.0000
8	Pulse Width	10.0000
9	Spectrometer Frequency	125.76
10	Spectral Width	30120.5
11	Lowest Frequency	-2472.8
12	Nucleus	13C
13	Acquired Size	32768
14	Spectral Size	32768

4-ethoxy-N-methyl-N-phenyl-2-(triethylsilyl)benzamide (2b)

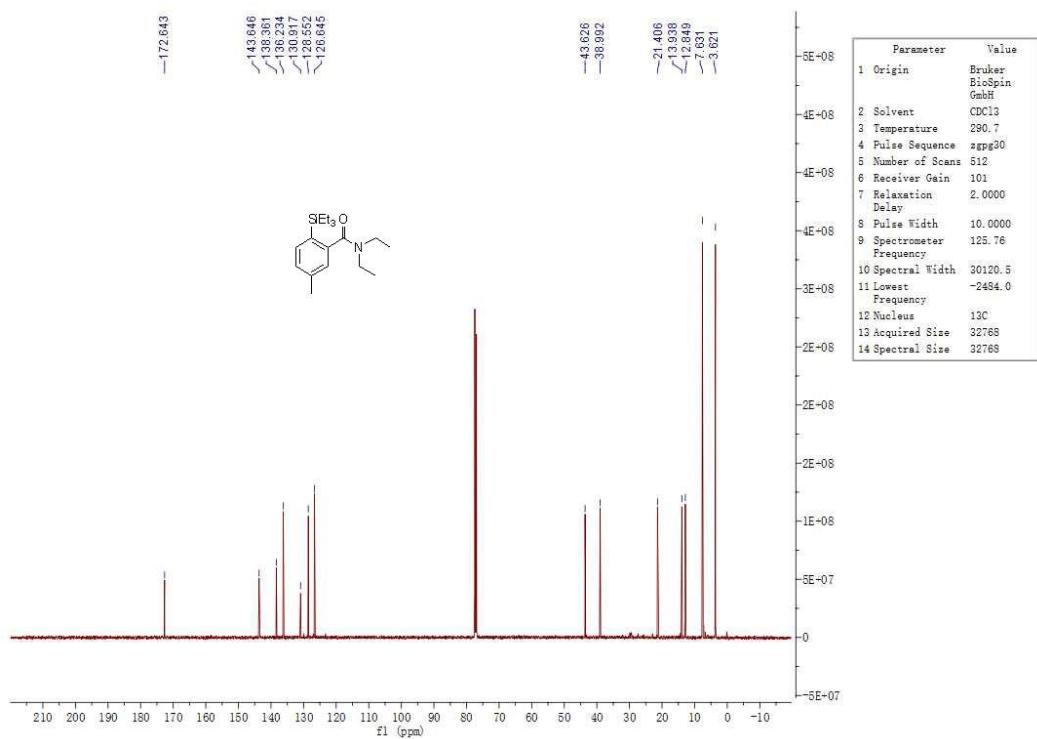
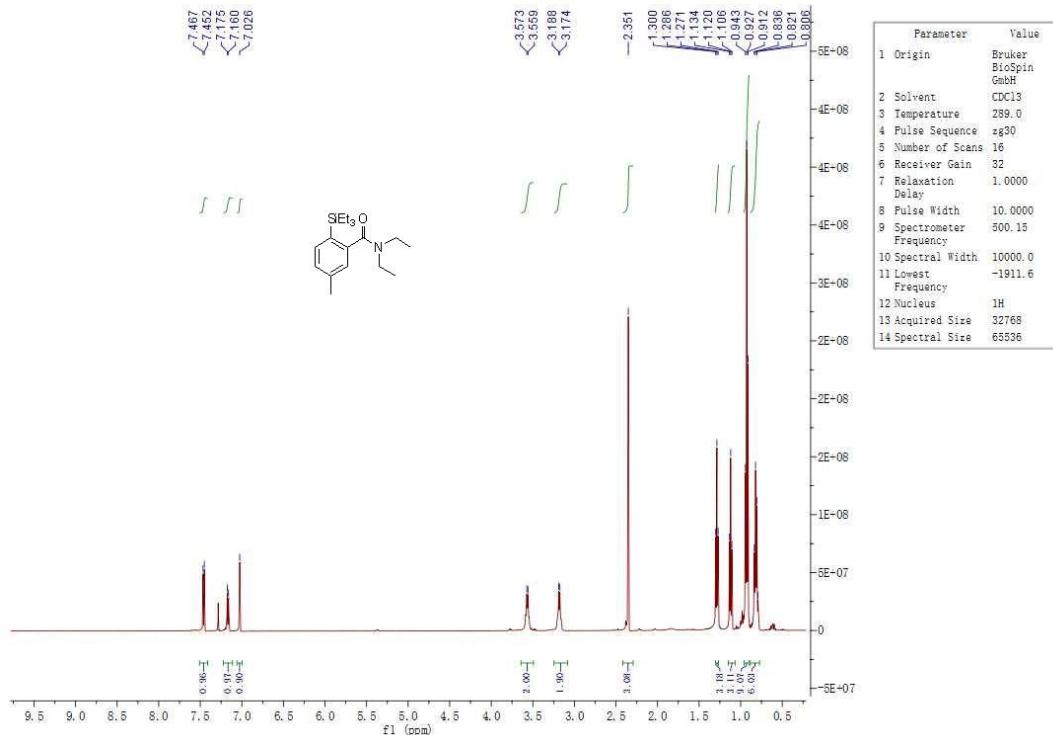
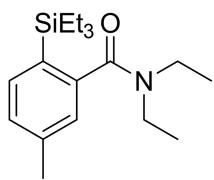


4-fluoro-N-methyl-N-phenyl-2-(triethylsilyl)benzamide (2c)

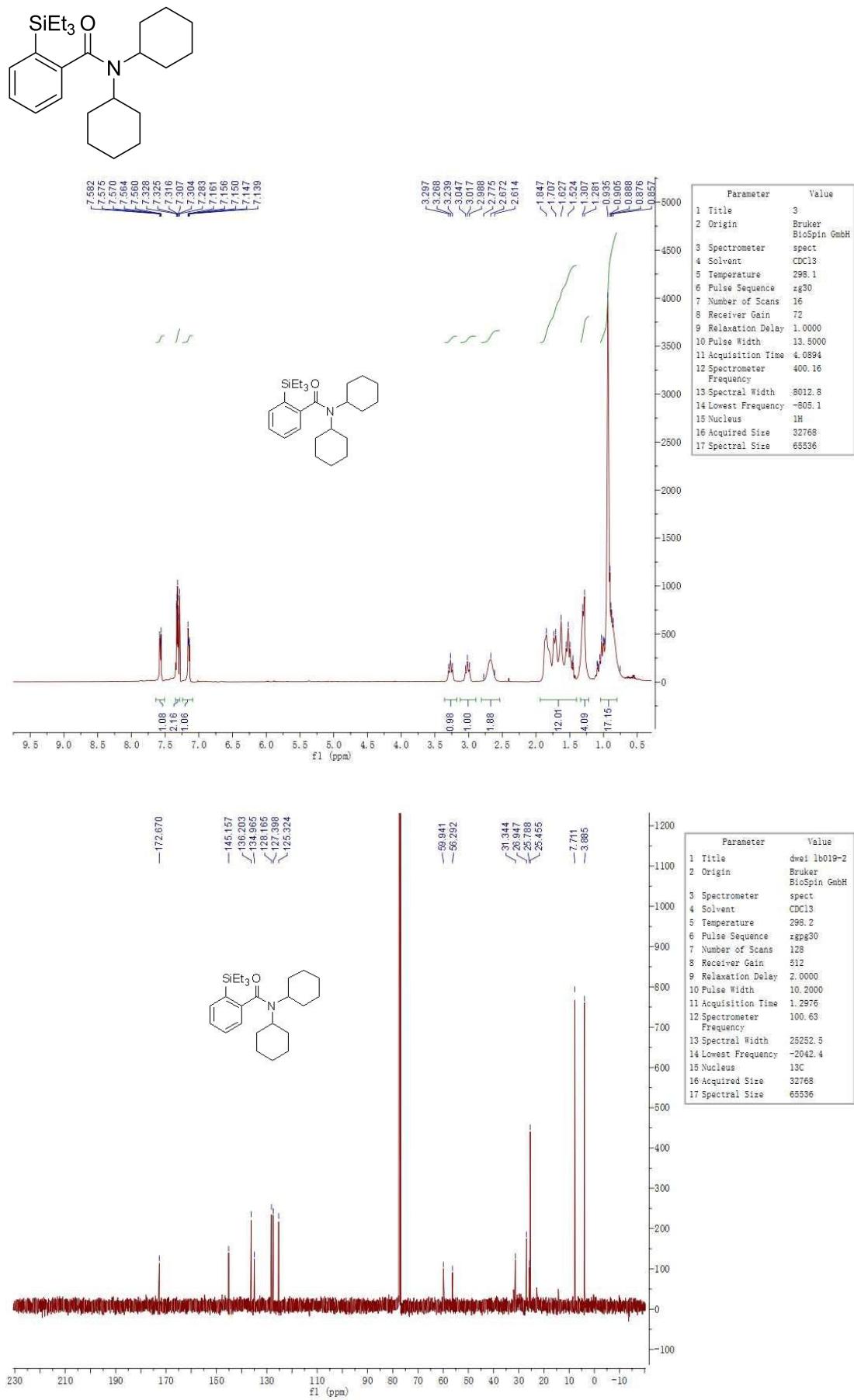




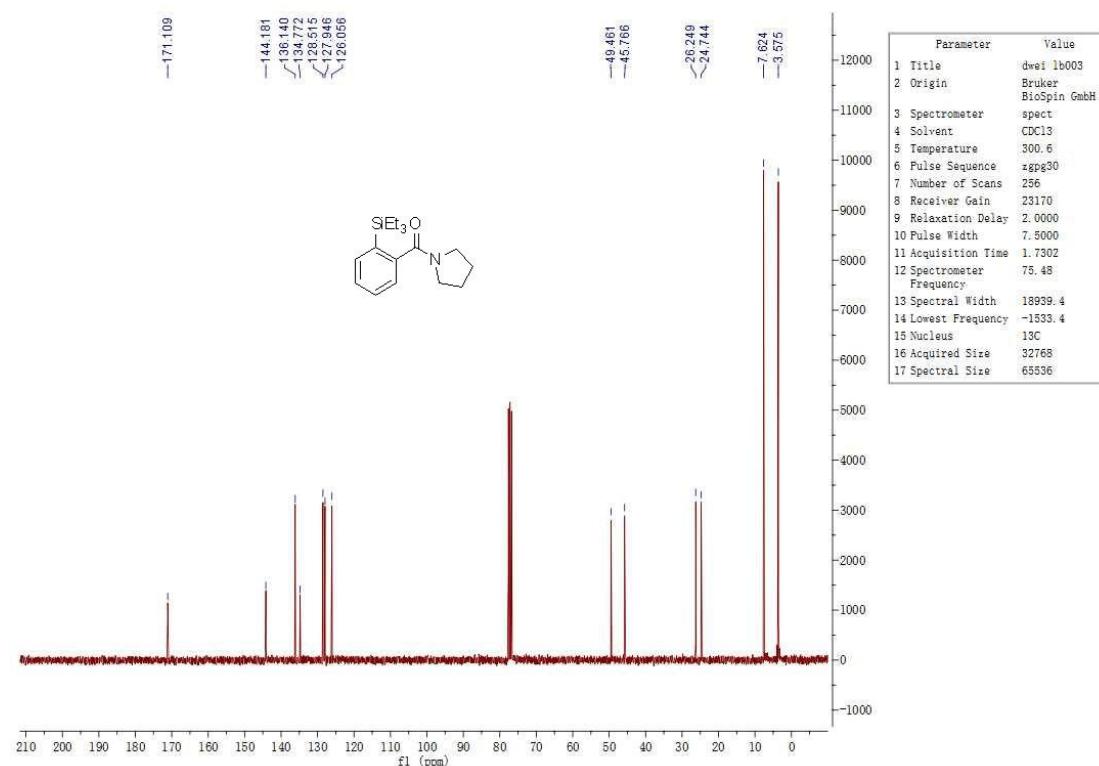
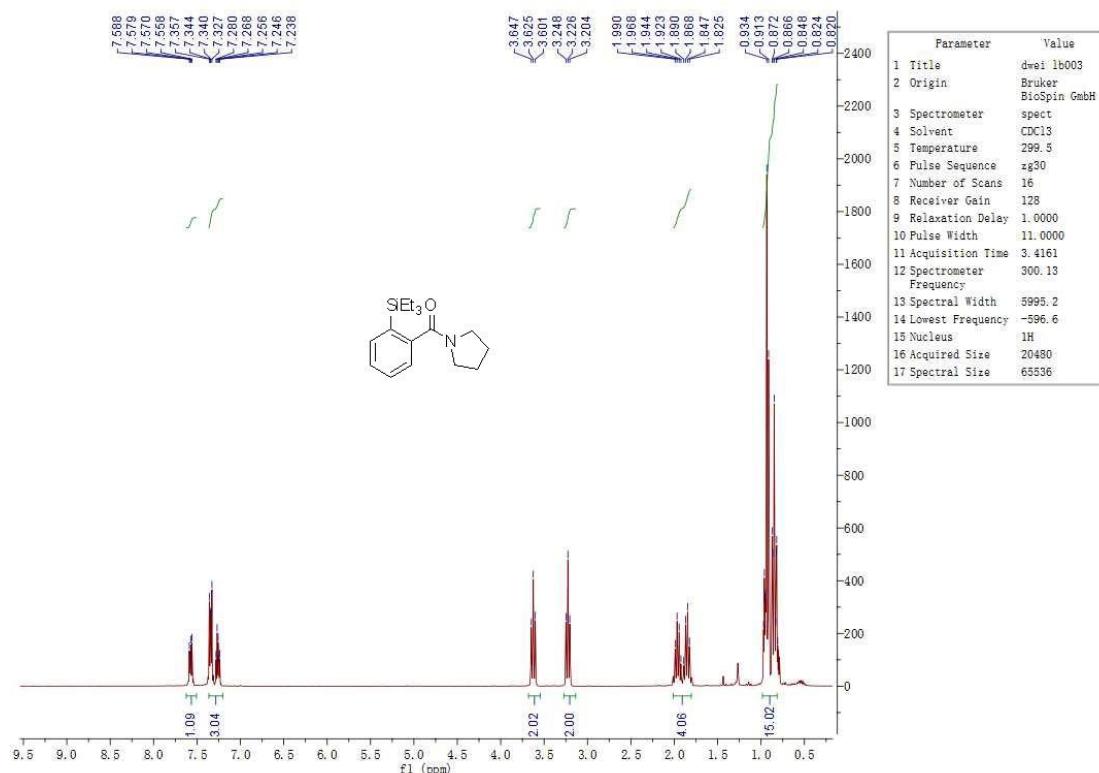
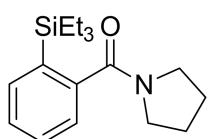
N,N-diethyl-5-methyl-2-(triethylsilyl)benzamide (2d)



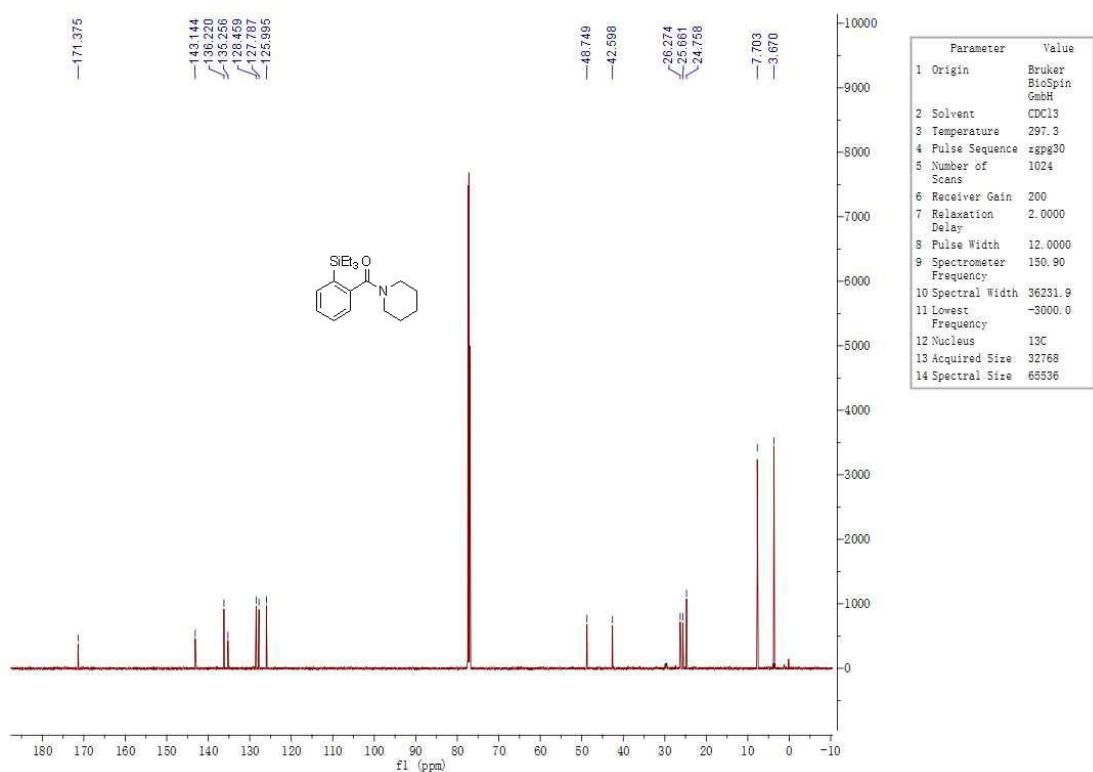
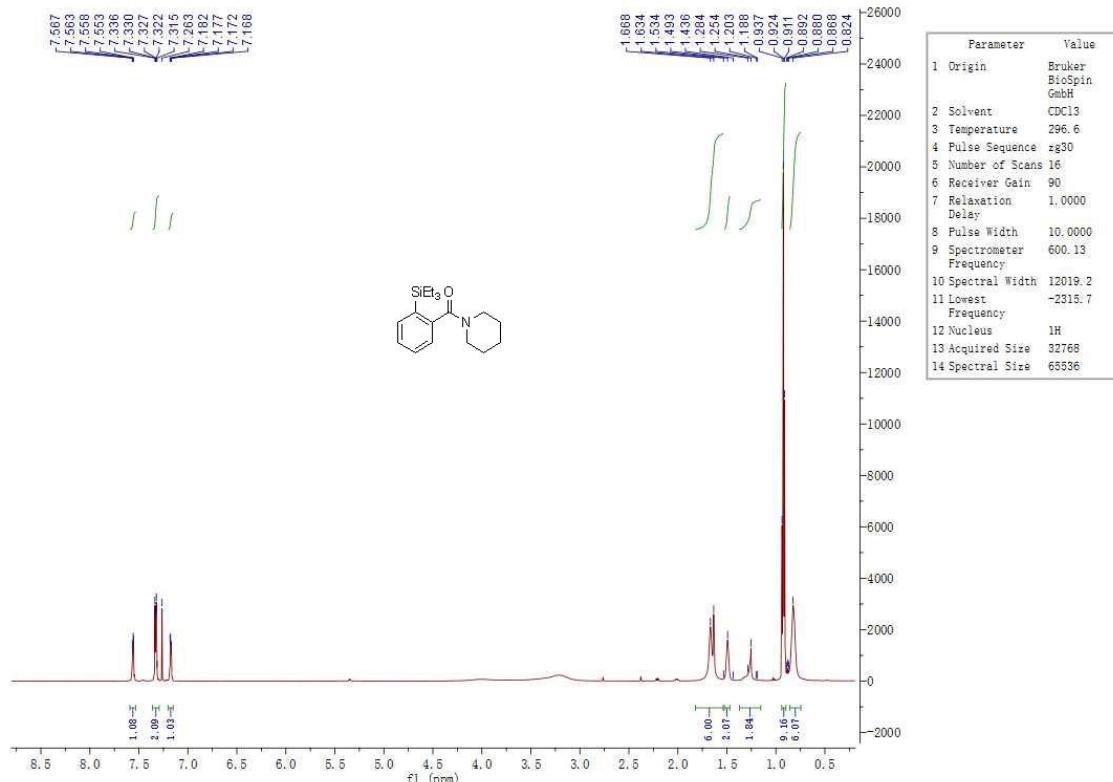
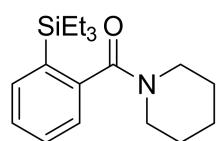
N,N-dicyclohexyl-2-(triethylsilyl)benzamide (2e)



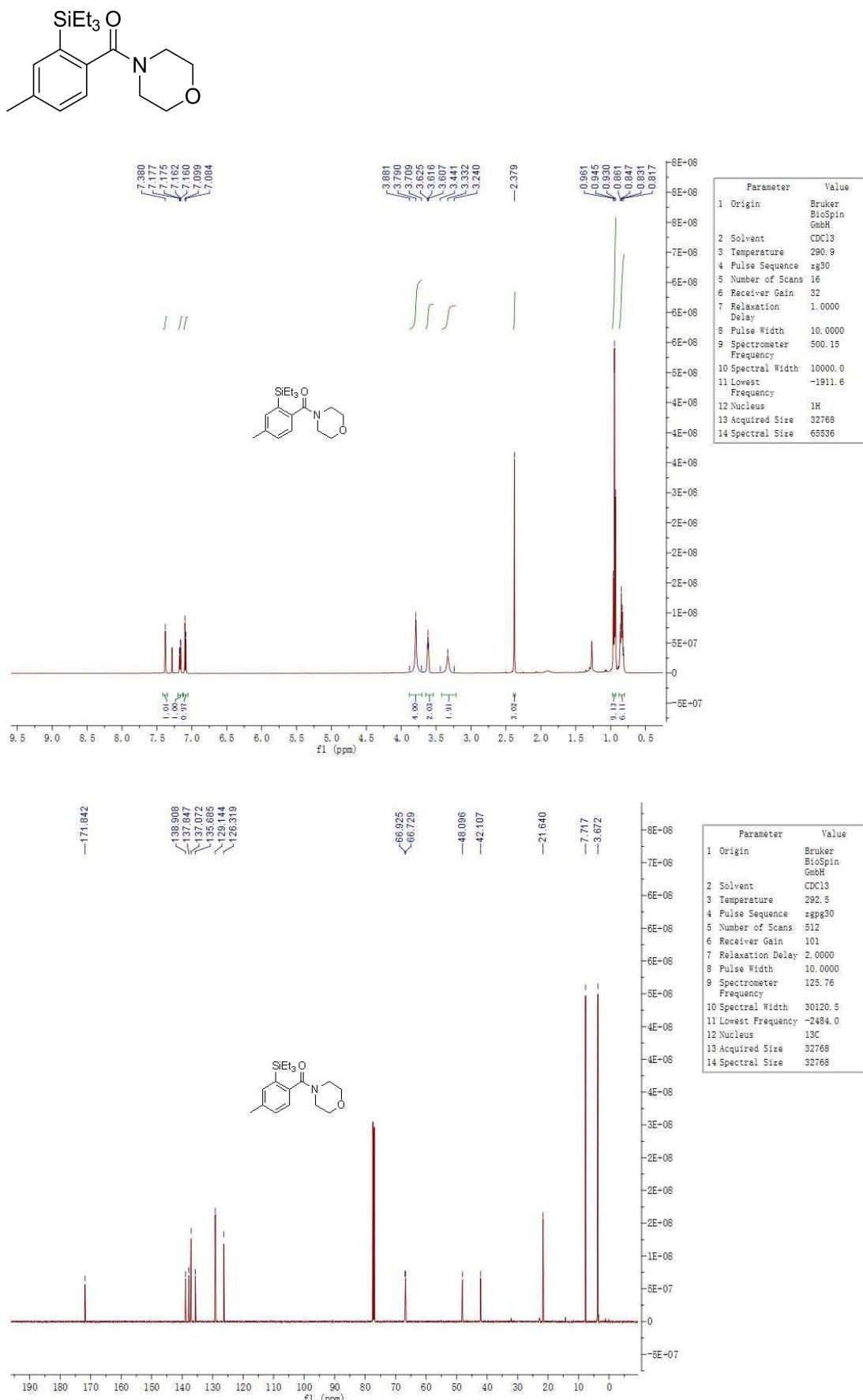
pyrrolidin-1-yl(2-(triethylsilyl)phenyl)methanone (2f)



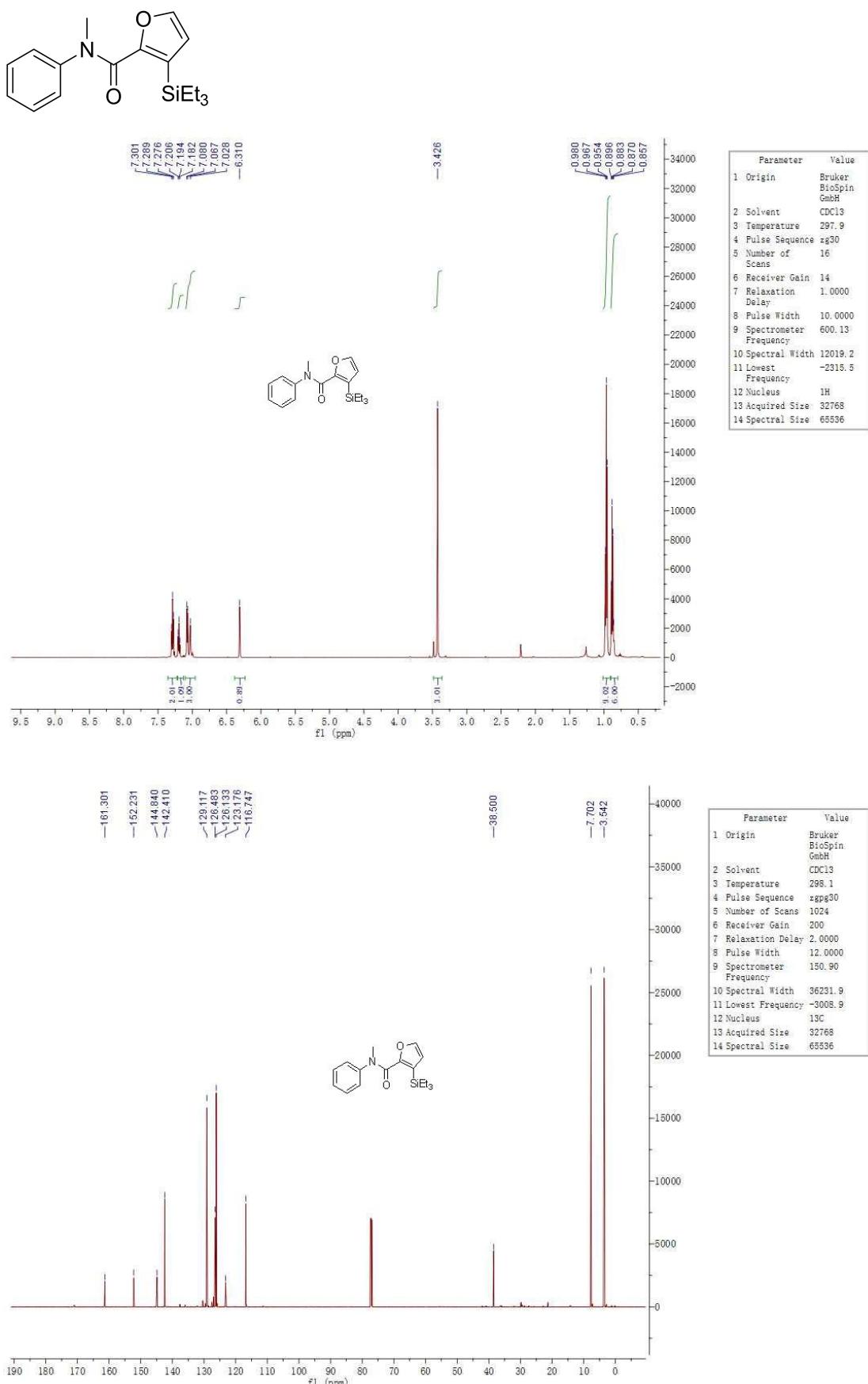
piperidin-1-yl(2-(triethylsilyl)phenyl)methanone (2g)



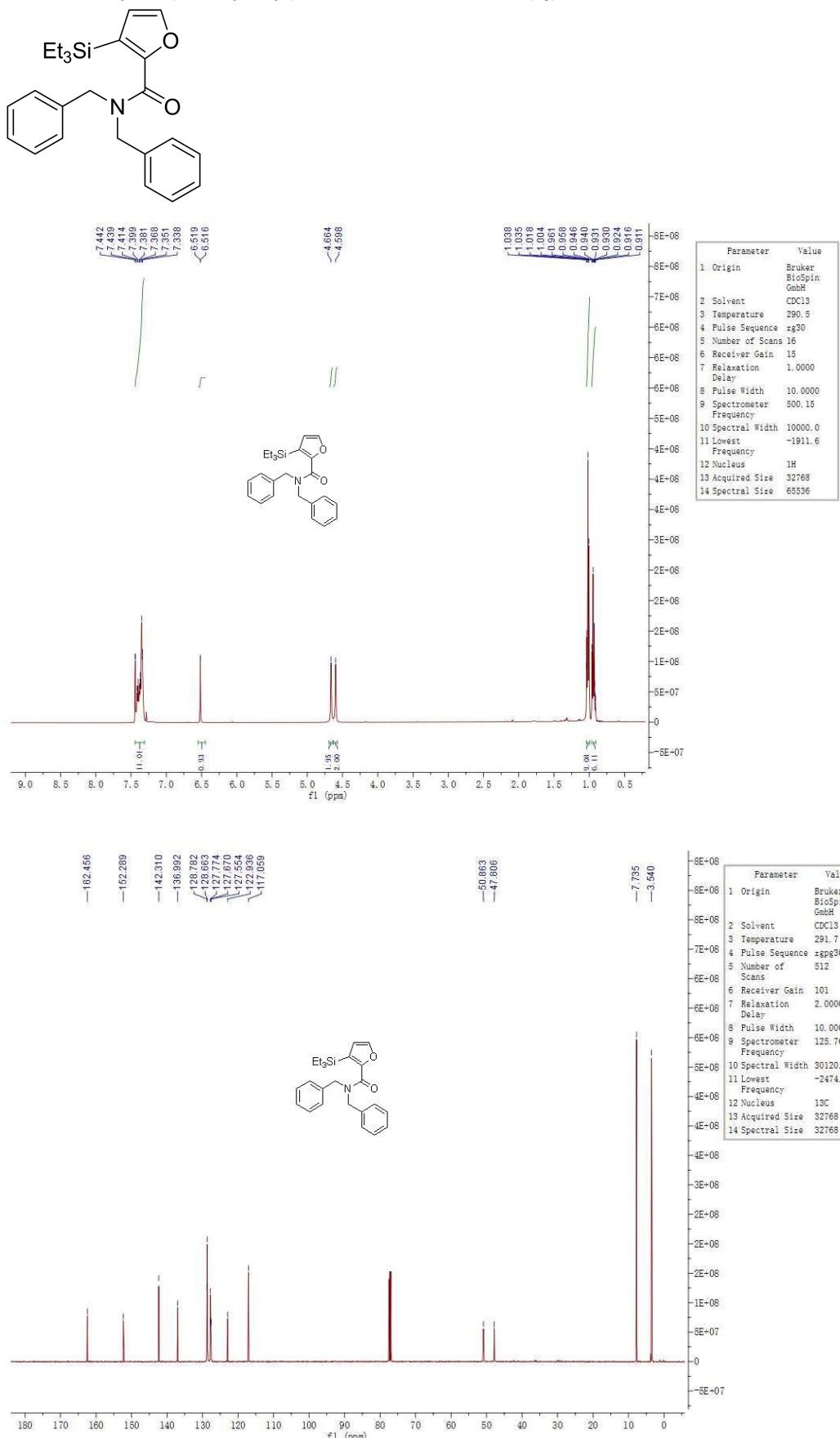
(4-methyl-2-(triethylsilyl)phenyl)(morpholino)methanone (2h)



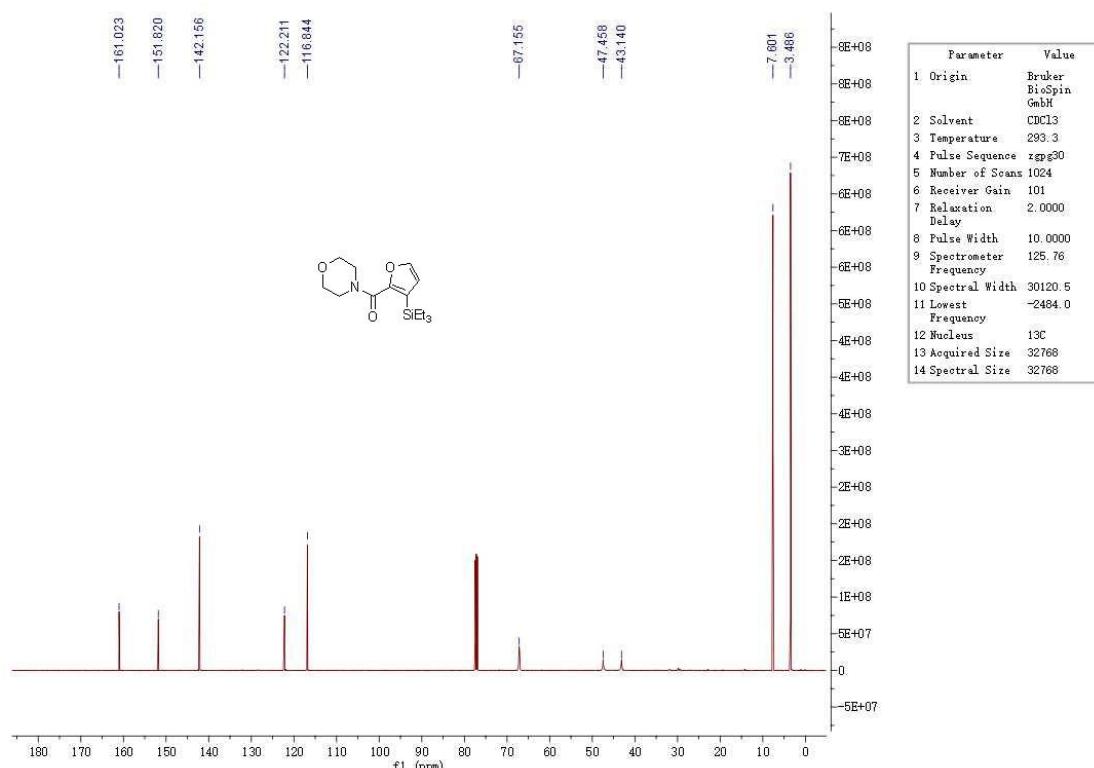
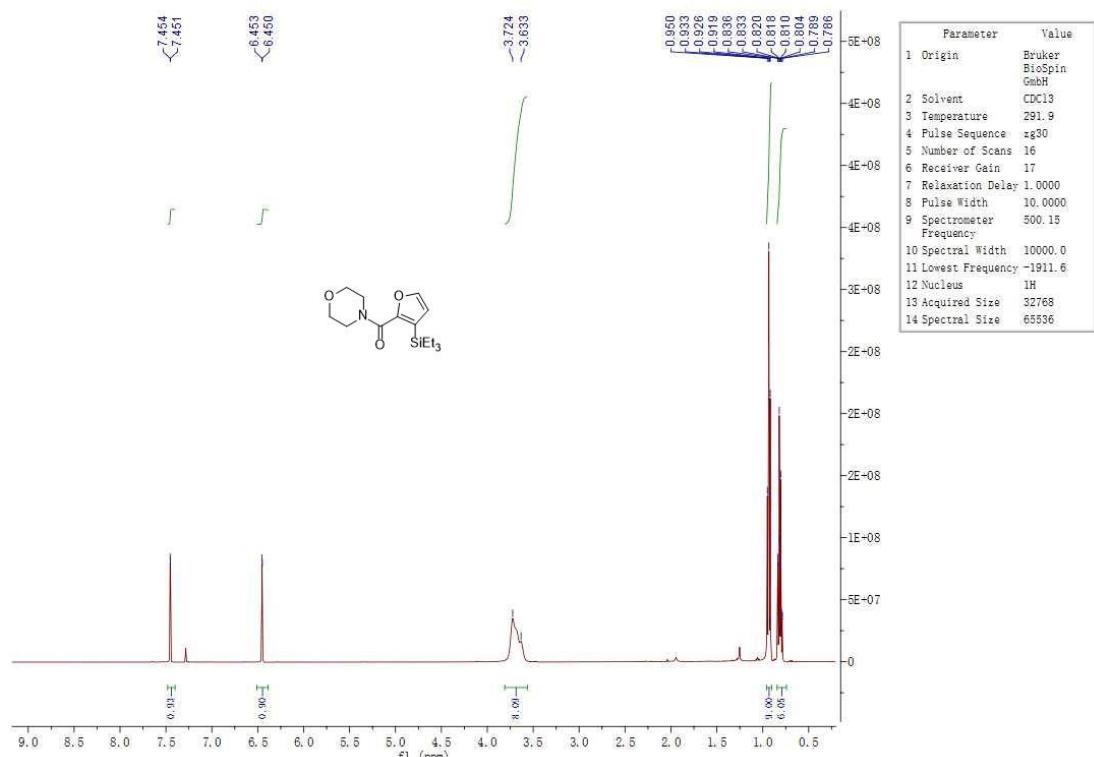
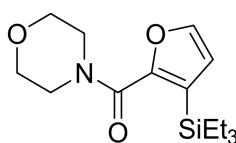
N-methyl-N-phenyl-3-(triethylsilyl)furan-2-carboxamide (2i)



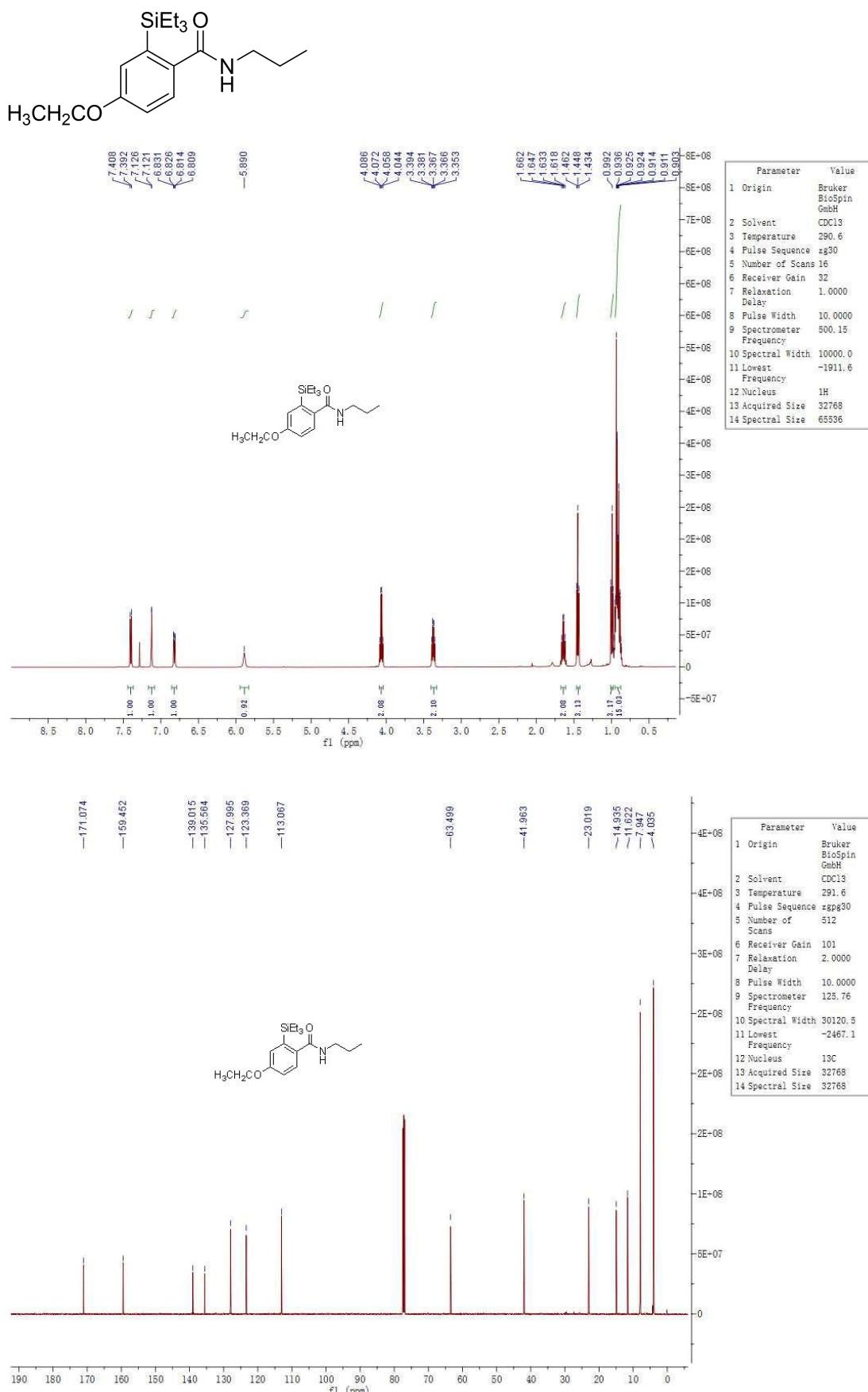
N,N-dibenzyl-3-(triethylsilyl)furan-2-carboxamide (2j)



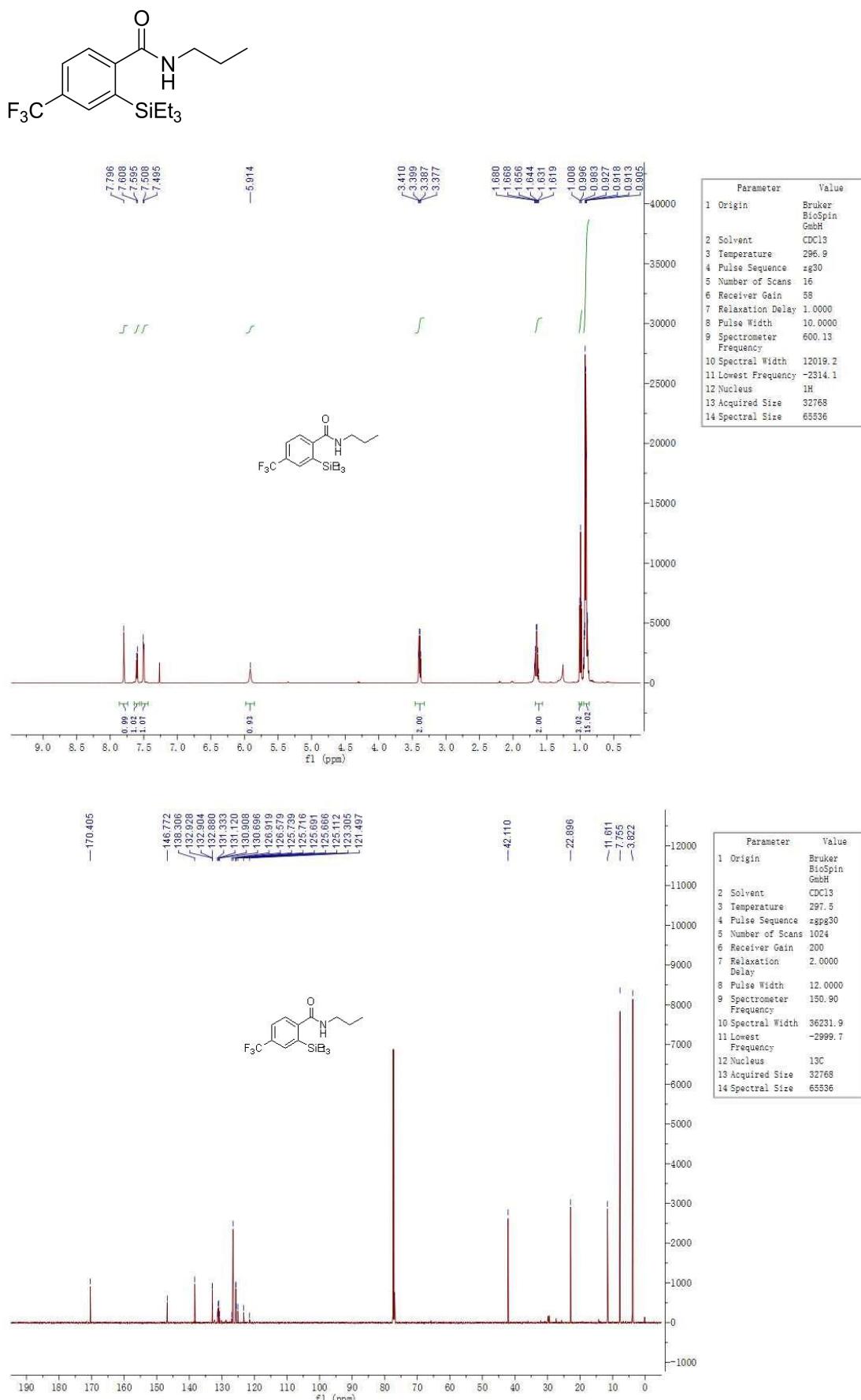
morpholino(3-(triethylsilyl)furan-2-yl)methanone (2k)



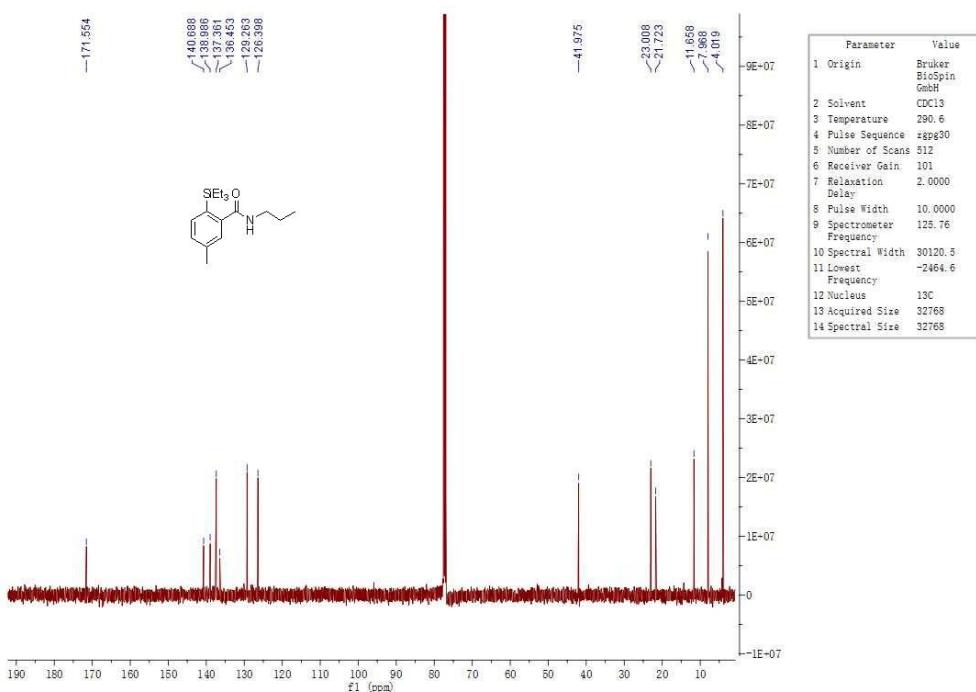
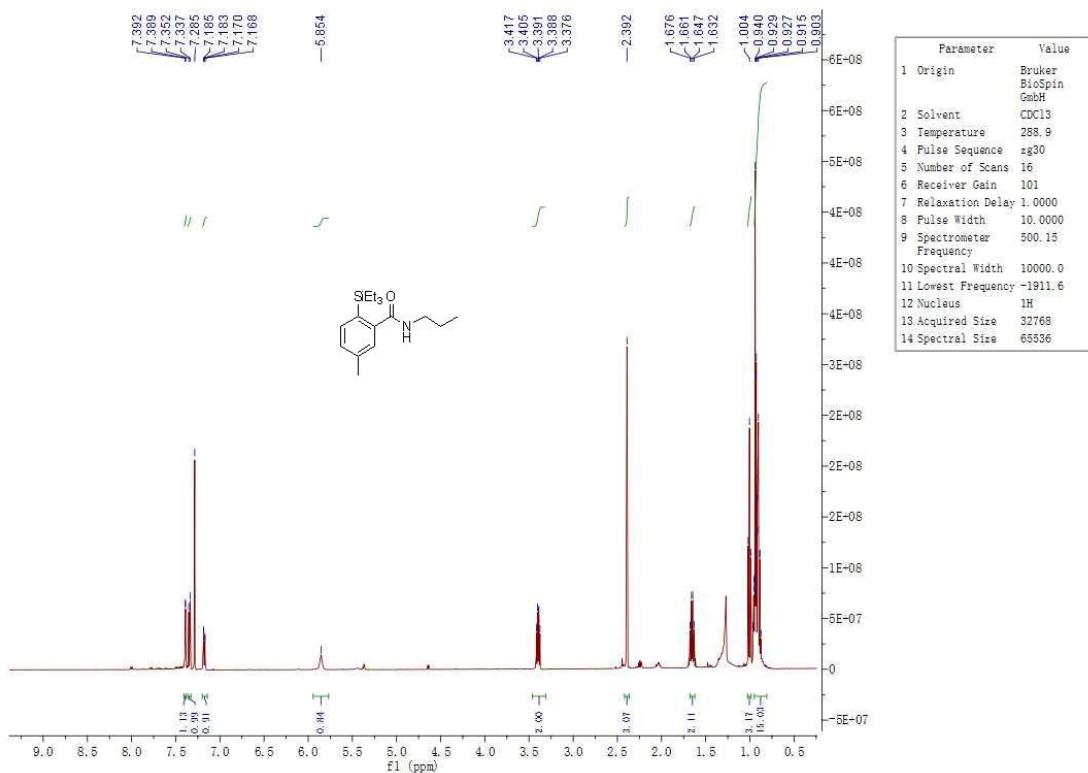
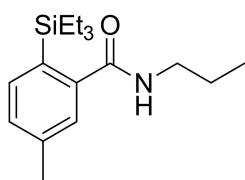
4-ethoxy-N-propyl-2-(triethylsilyl)benzamide (4l)



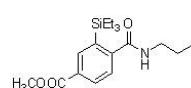
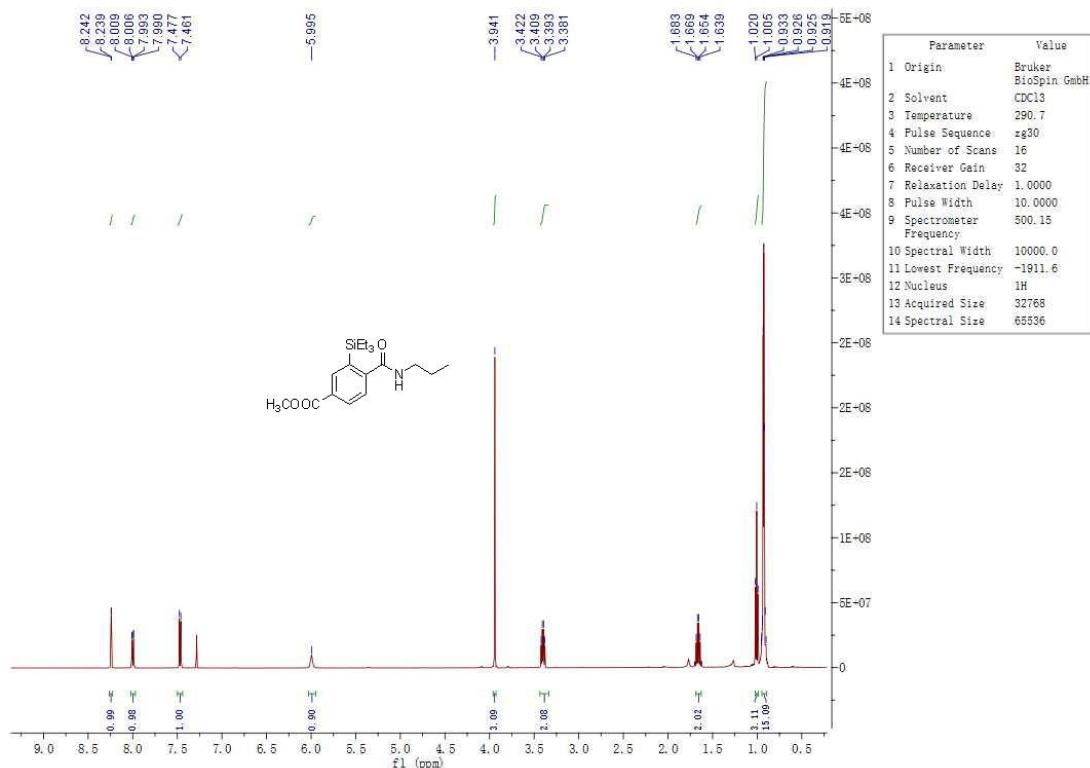
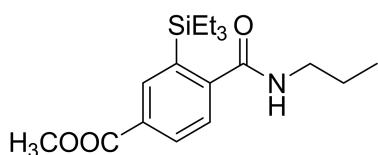
N-propyl-2-(triethylsilyl)-4-(trifluoromethyl)benzamide (2m)



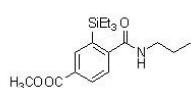
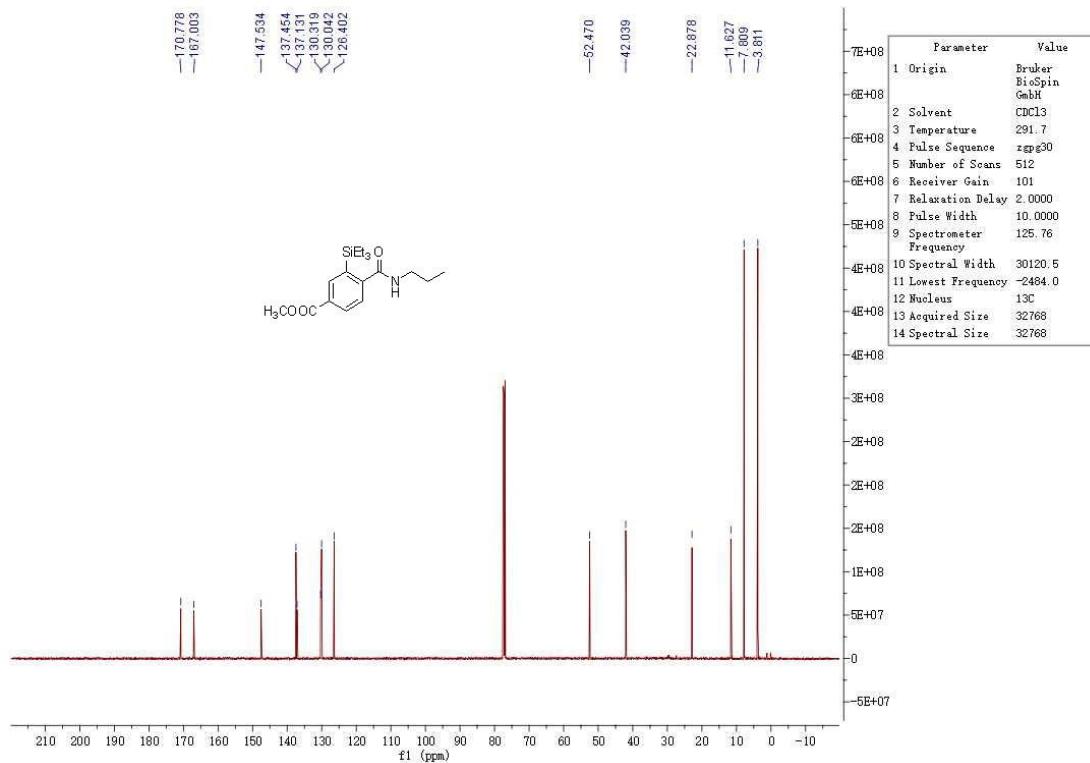
5-methyl-N-propyl-2-(triethylsilyl)benzamide (2n)



methyl 4-(propylcarbamoyl)-3-(triethylsilyl)benzoate (2o)

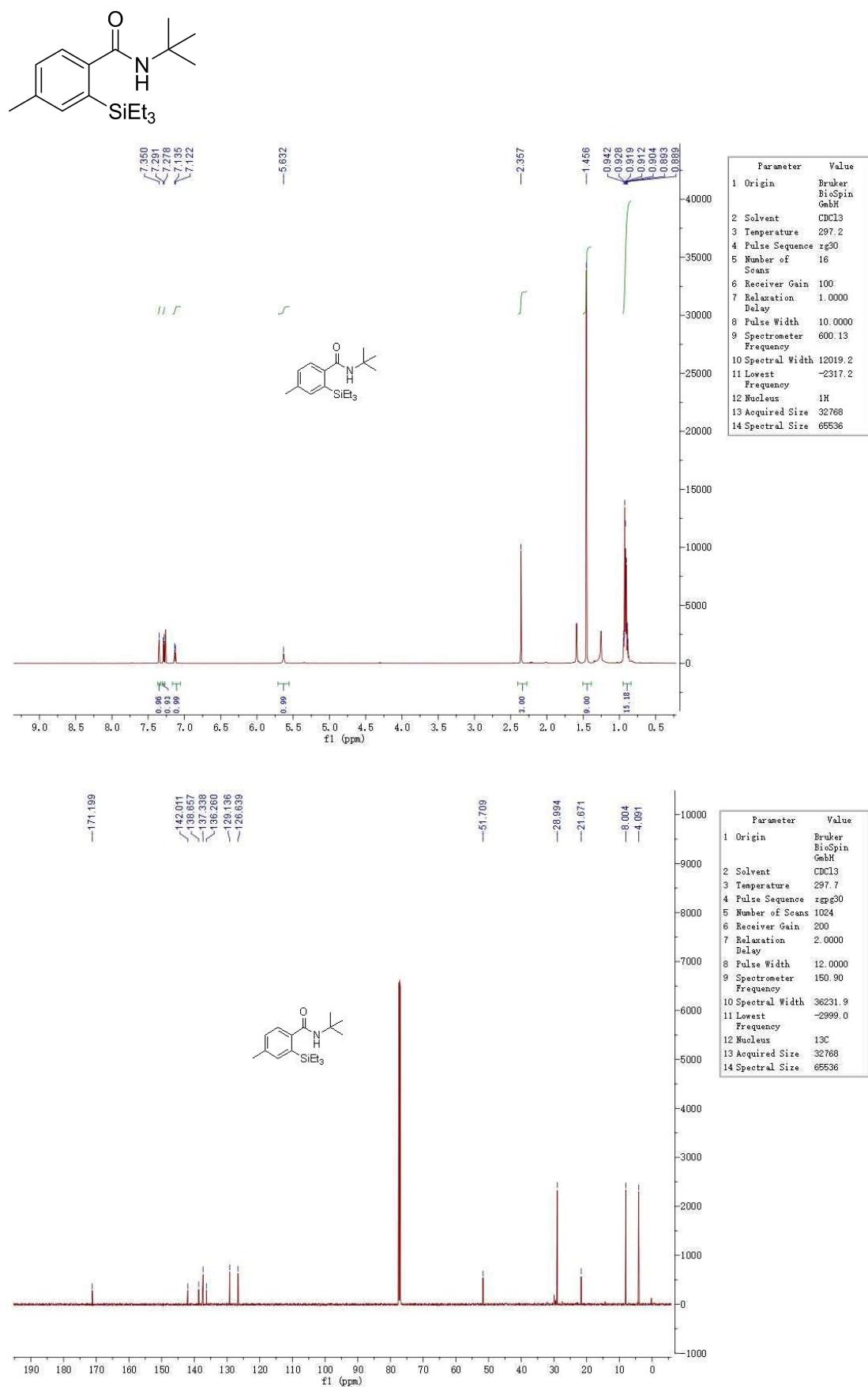


Parameter	Value
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2 Solvent	CDCl ₃
3 Temperature	290.7
4 Pulse Sequence	zg30
5 Number of Scans	16
6 Receiver Gain	32
7 Relaxation Delay	1.0000
8 Pulse Width	10.0000
9 Spectrometer Frequency	500.15
10 Spectral Width	10000.0
11 Lowest Frequency	-1911.6
12 Nucleus	1H
13 Acquired Size	32768
14 Spectral Size	65536

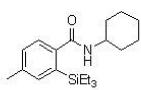
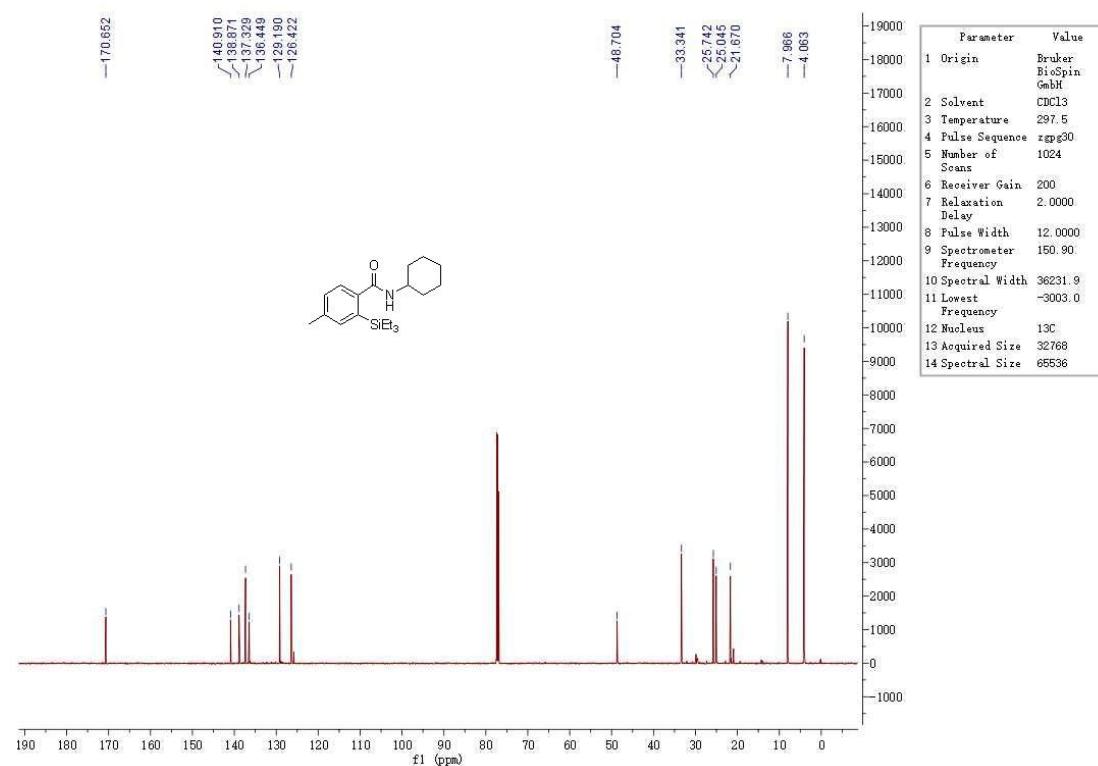
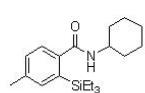
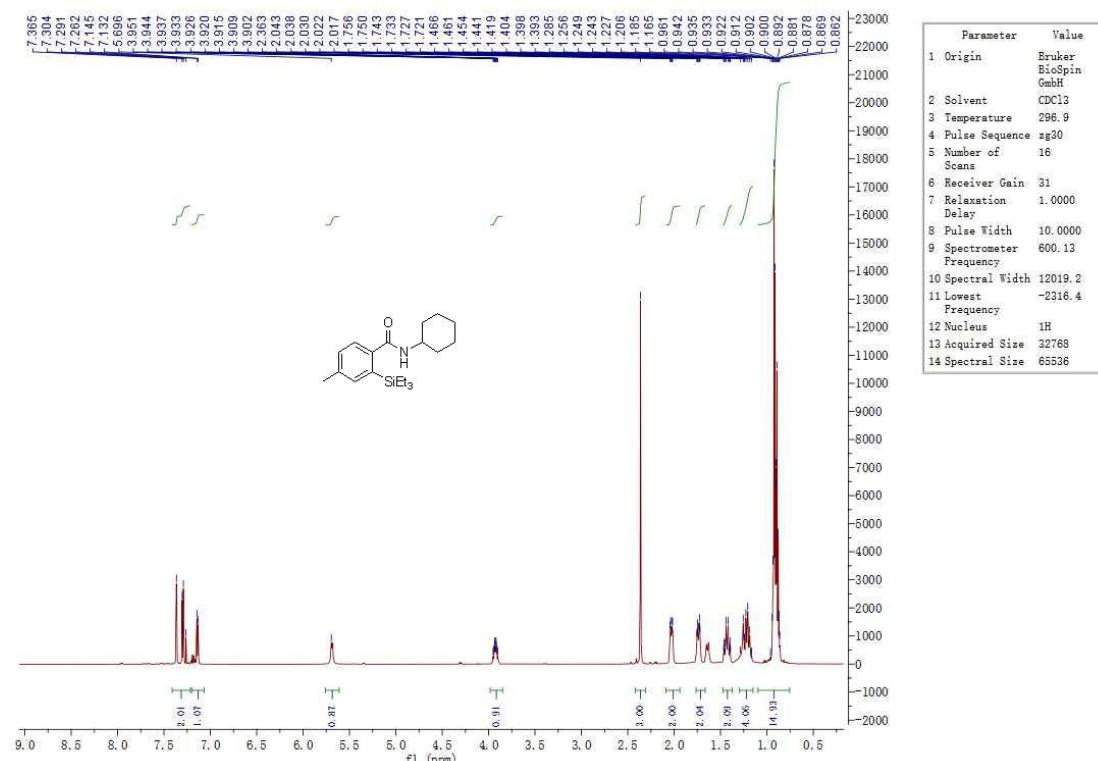


	Parameter	Value
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08		GebH
2	Solvent	CDCl3
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4	Pulse Sequence	zgpg30
5	Number of Scans	512
6	Receiver Gain	101
7	Relaxation Delay	2.0000
8	Pulse Width	10.0000
9	Spectrometer Frequency	125.76
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12	Nucleus	13C
13	Acquired Size	32768
14	Zero Fills	32768

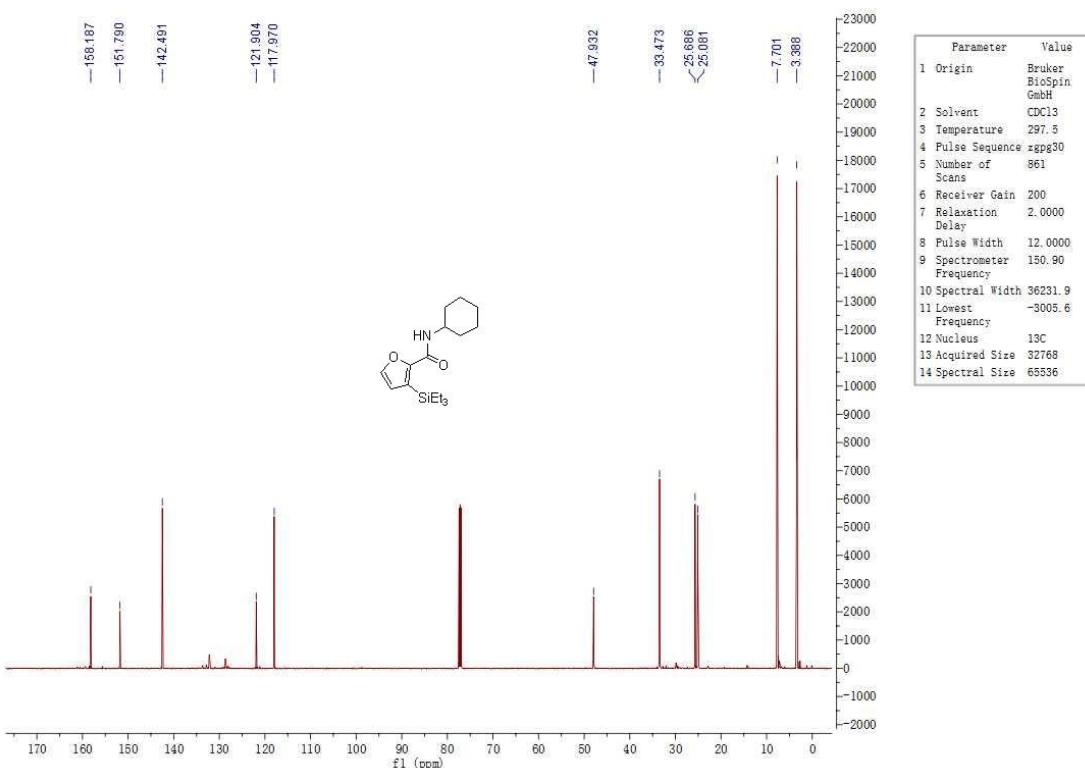
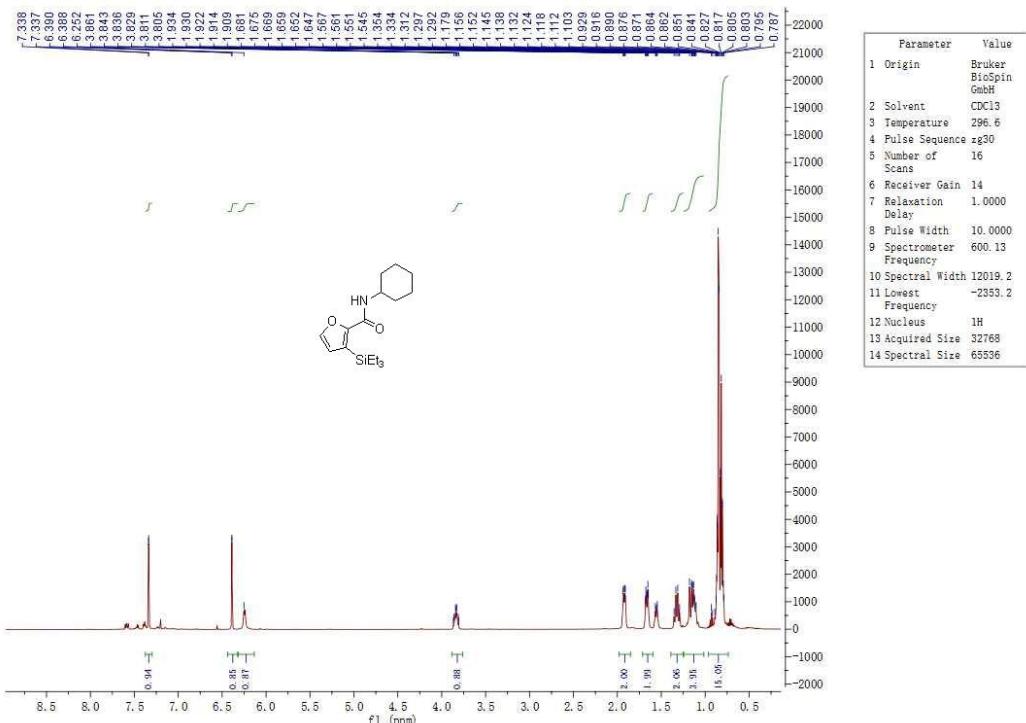
N-(tert-butyl)-4-methyl-2-(triethylsilyl)benzamide (2p)



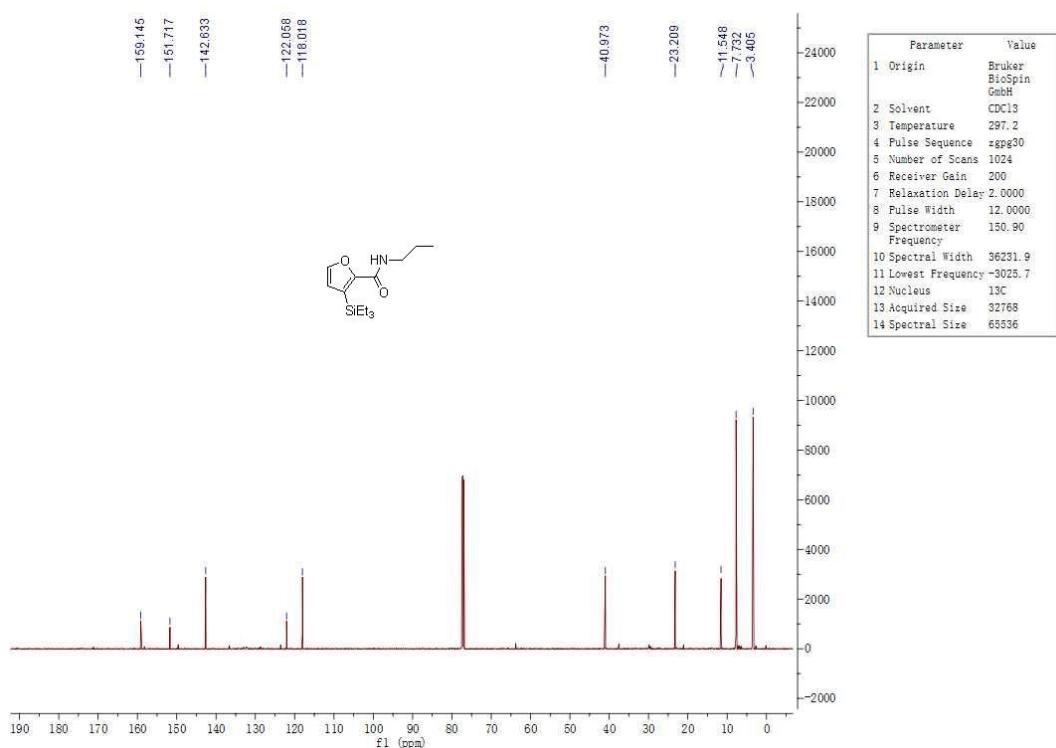
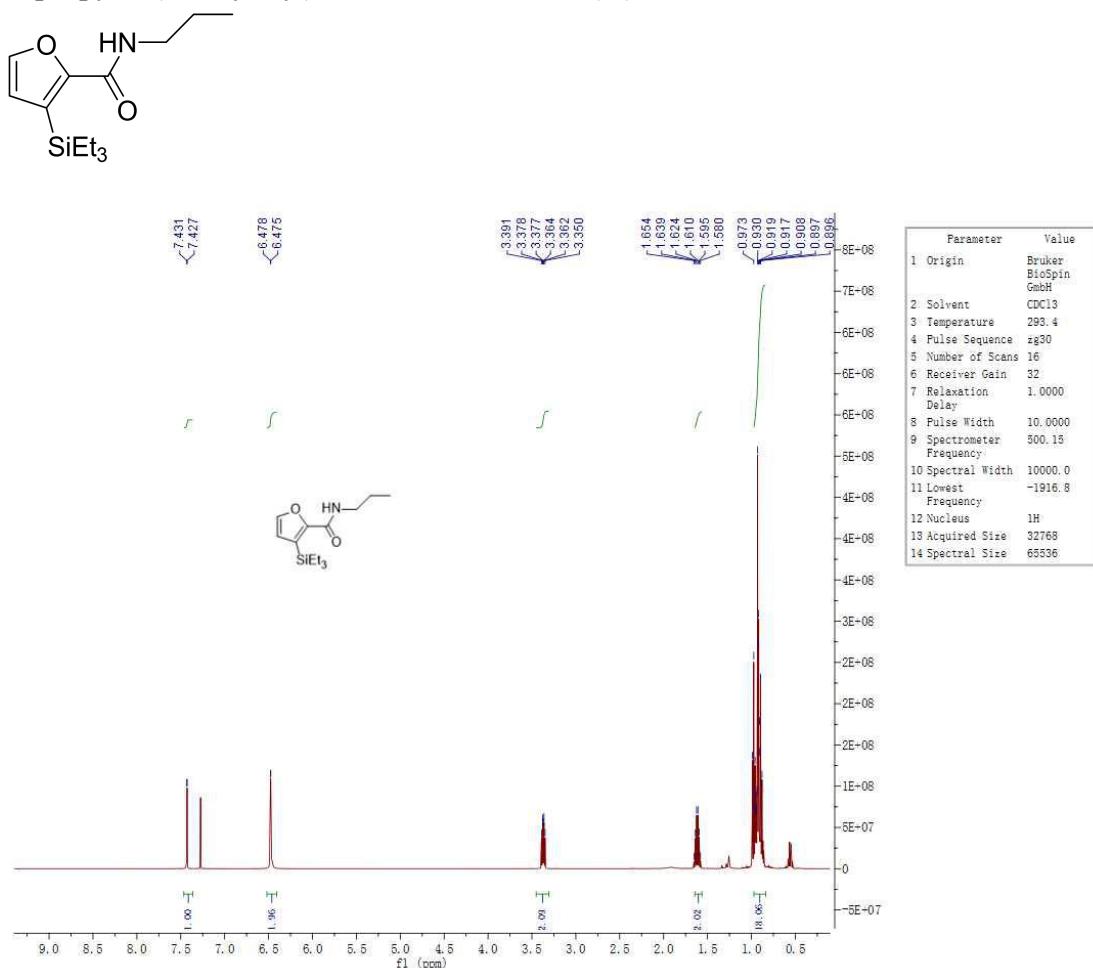
N-cyclohexyl-4-methyl-2-(triethylsilyl)benzamide (2q)



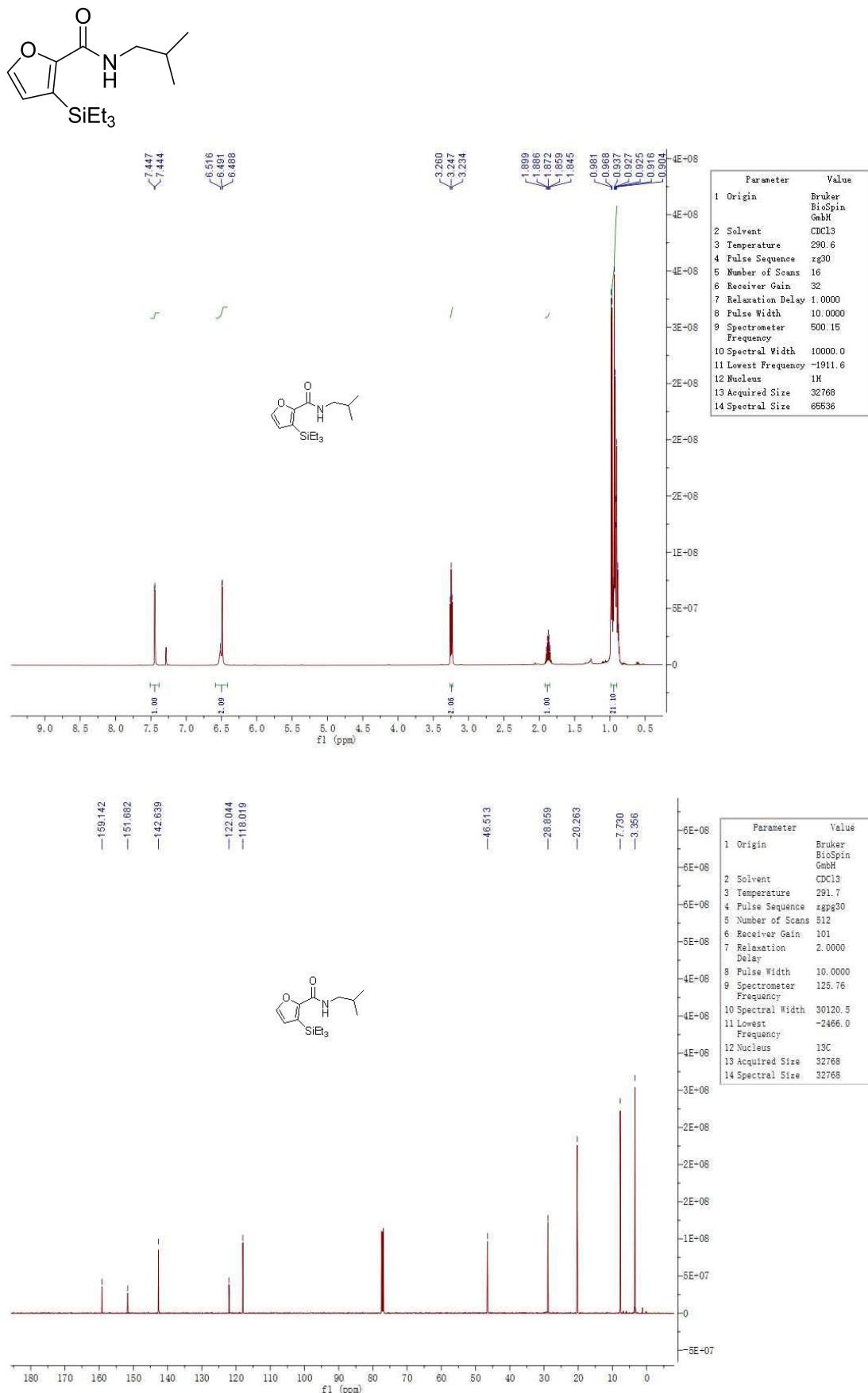
N-cyclohexyl-3-(triethylsilyl)furan-2-carboxamide (2r)



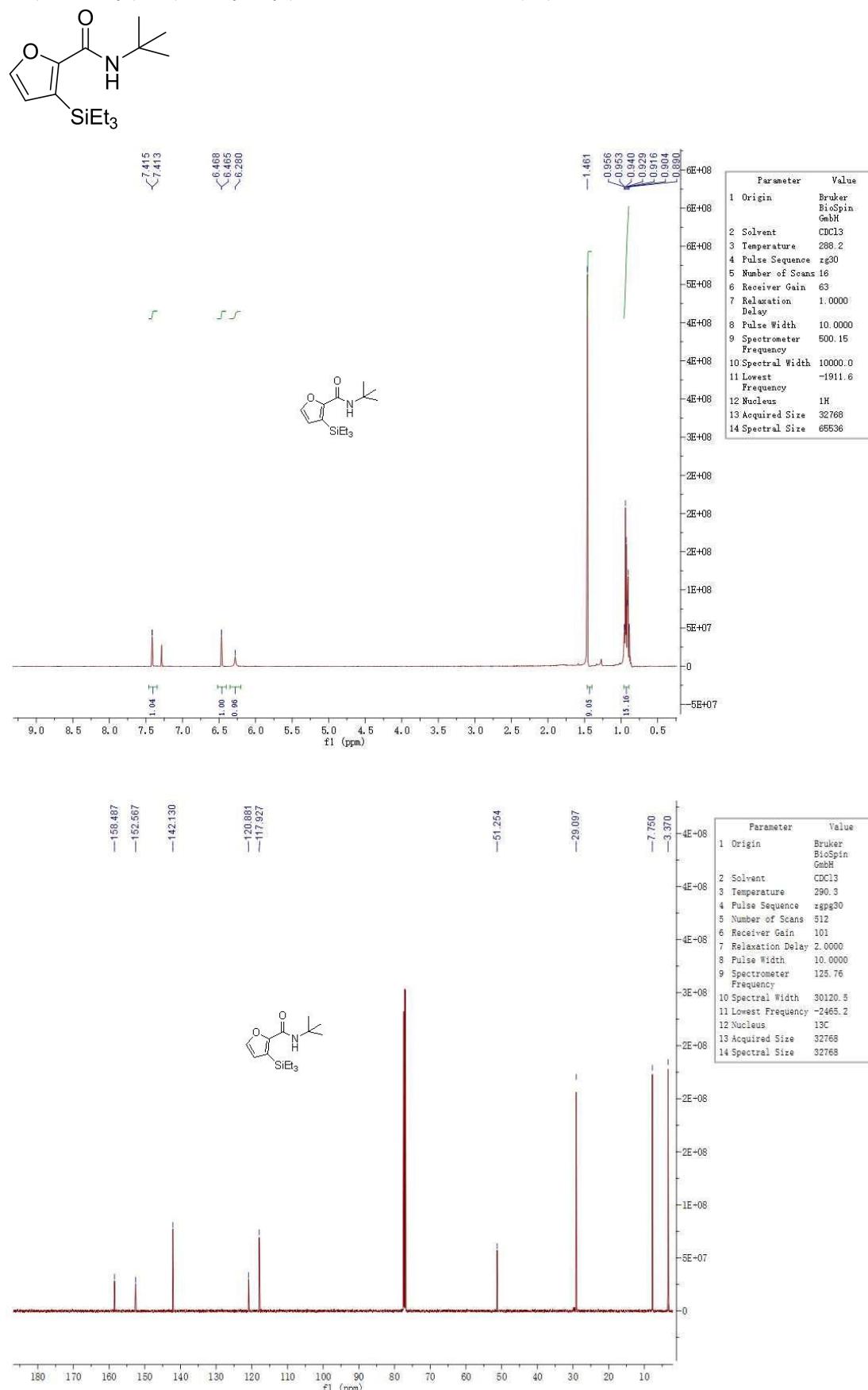
N-propyl-3-(triethylsilyl)furan-2-carboxamide (2s)



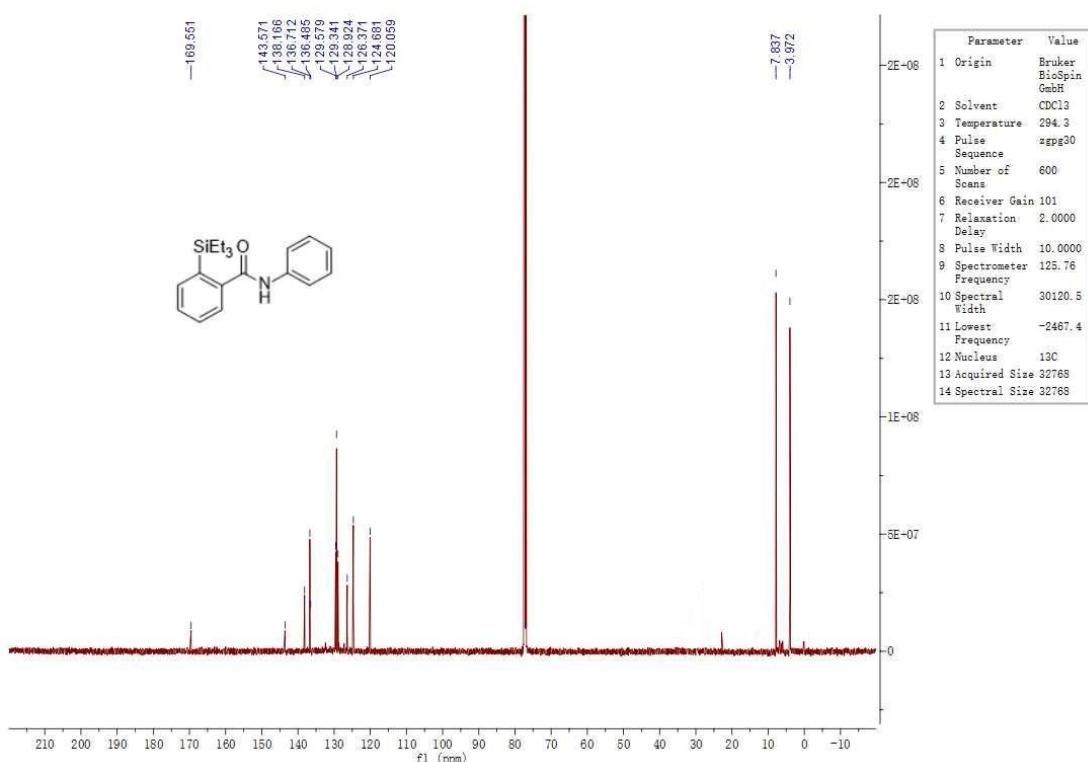
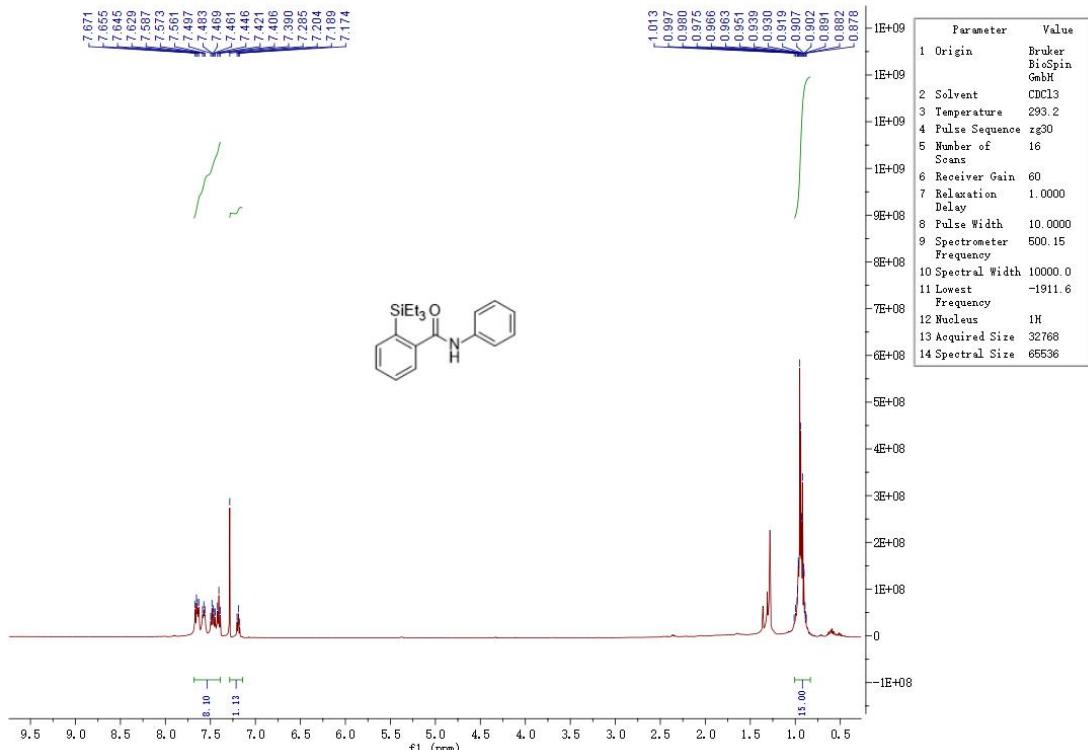
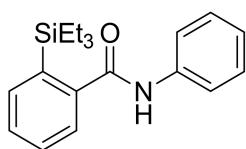
N-isobutyl-3-(triethylsilyl)furan-2-carboxamide (2t)



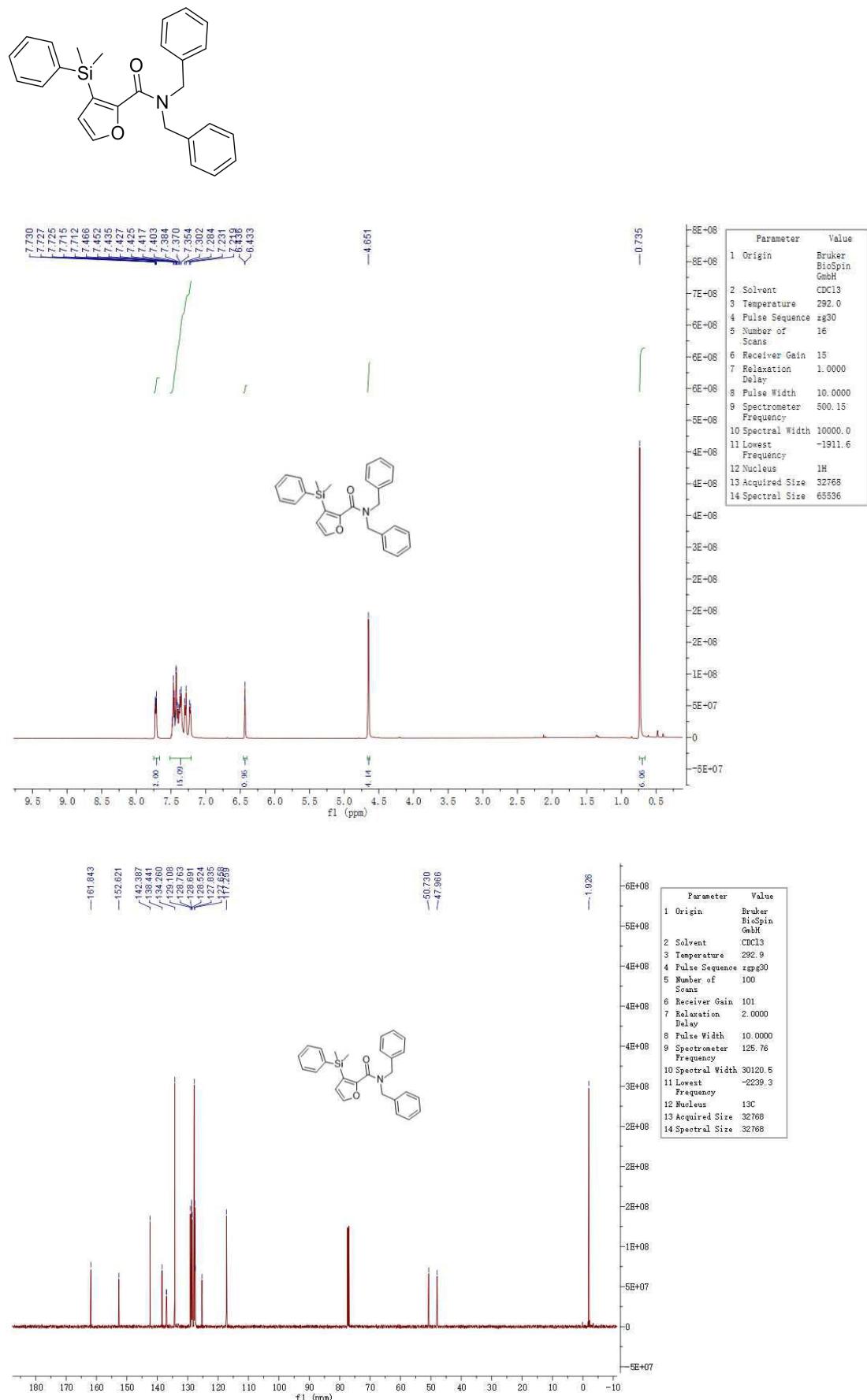
N-(tert-butyl)-3-(triethylsilyl)furan-2-carboxamide (2u)



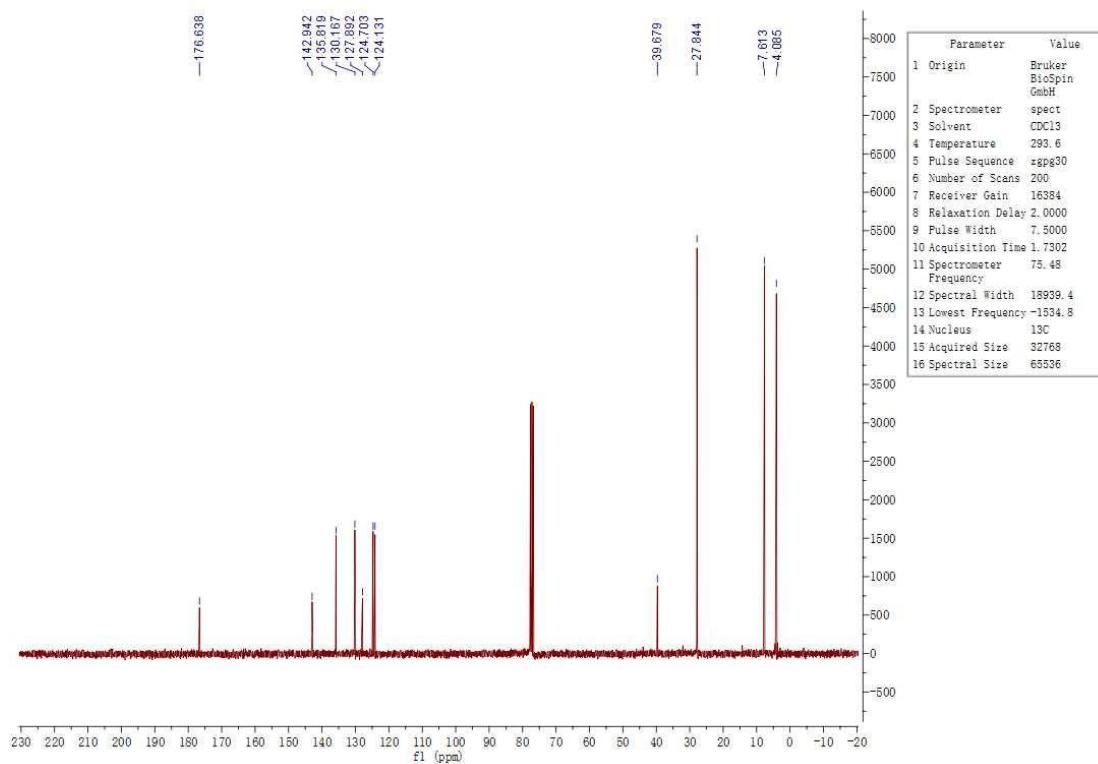
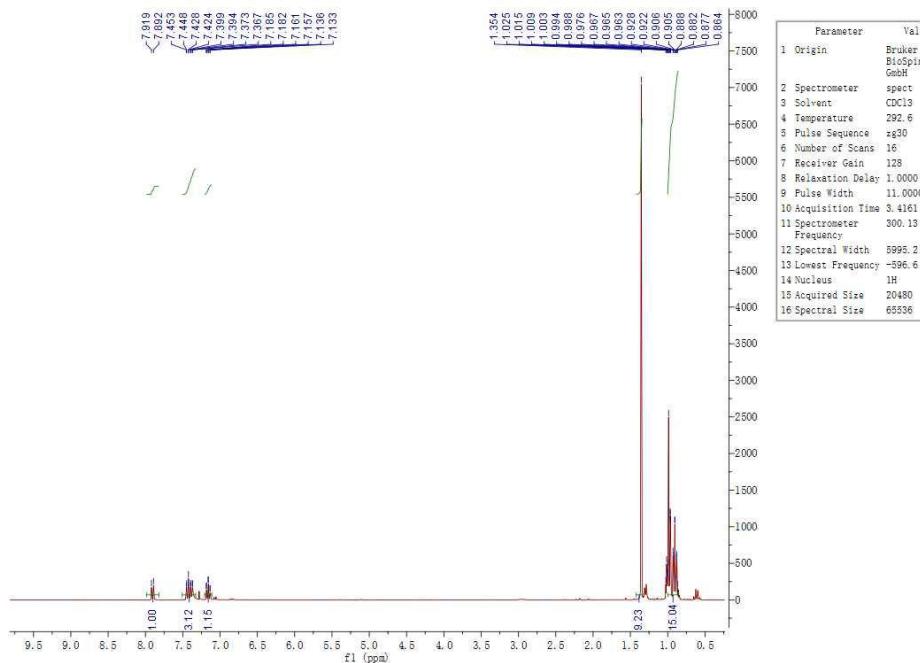
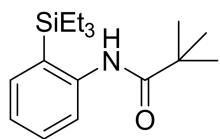
N-phenyl-2-(triethylsilyl)benzamide (2v)



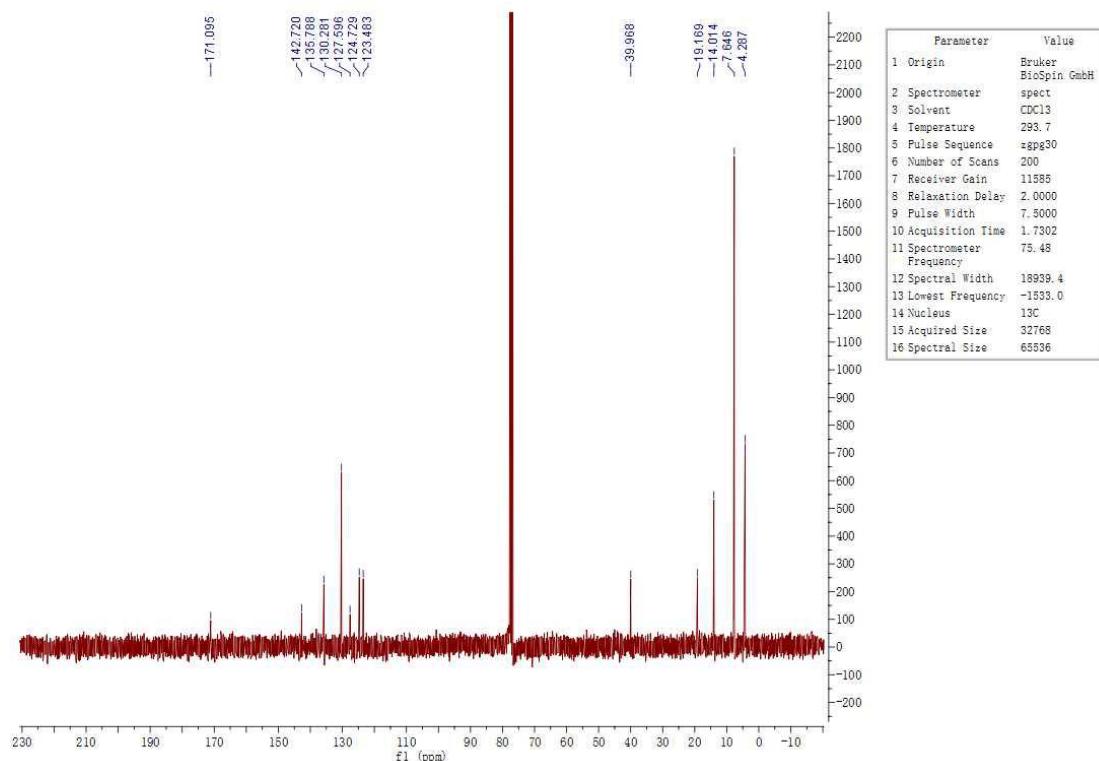
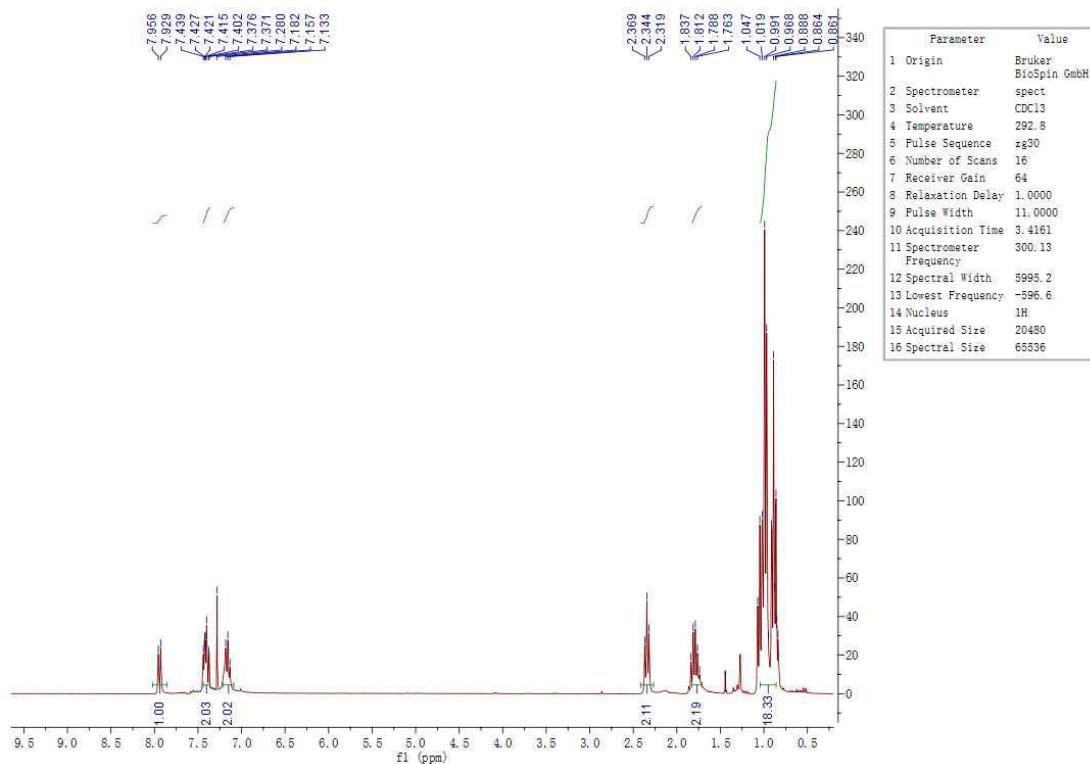
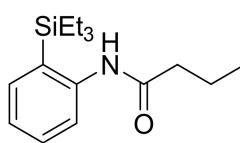
N,N-dibenzyl-3-(dimethyl(phenyl)silyl)furan-2-carboxamide (2w)



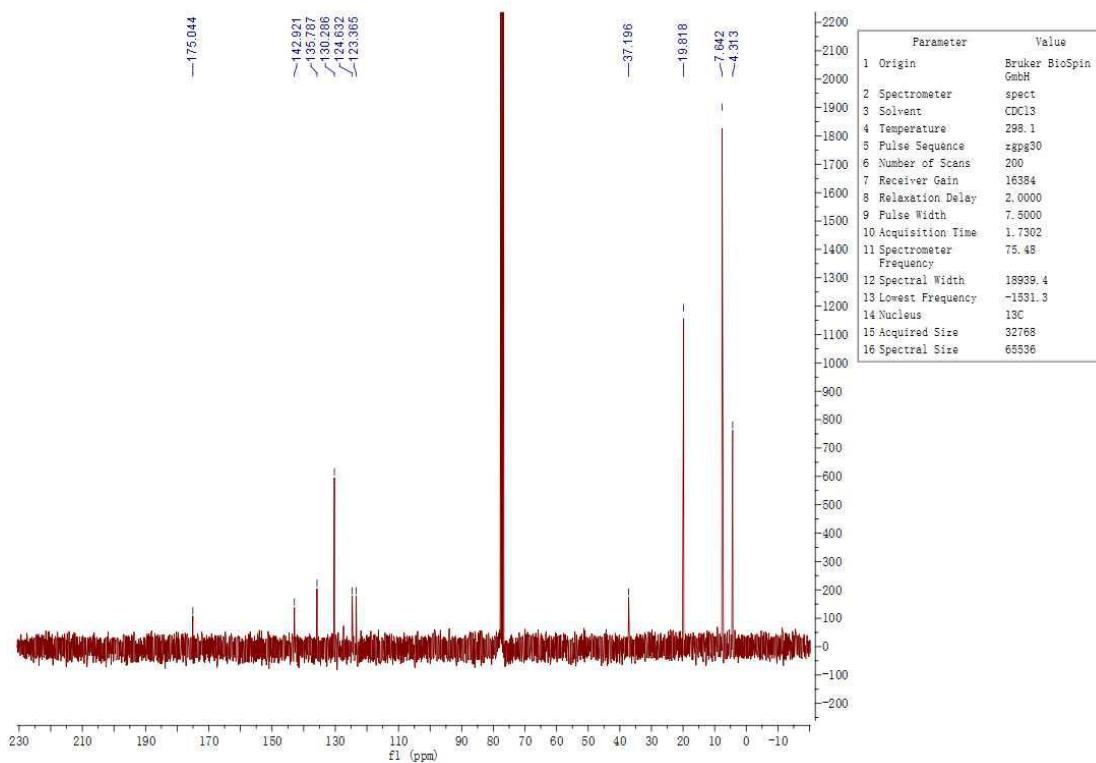
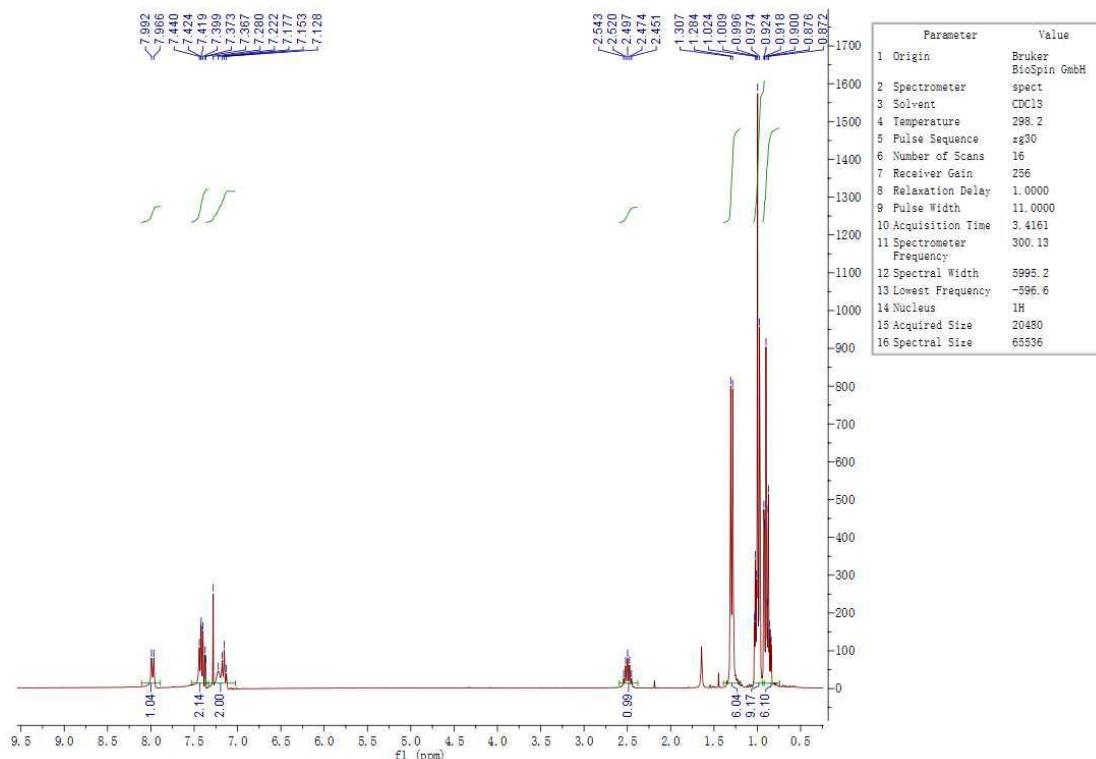
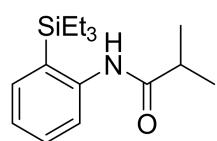
N-(2-(triethylsilyl)phenyl)pivalamide (4a)



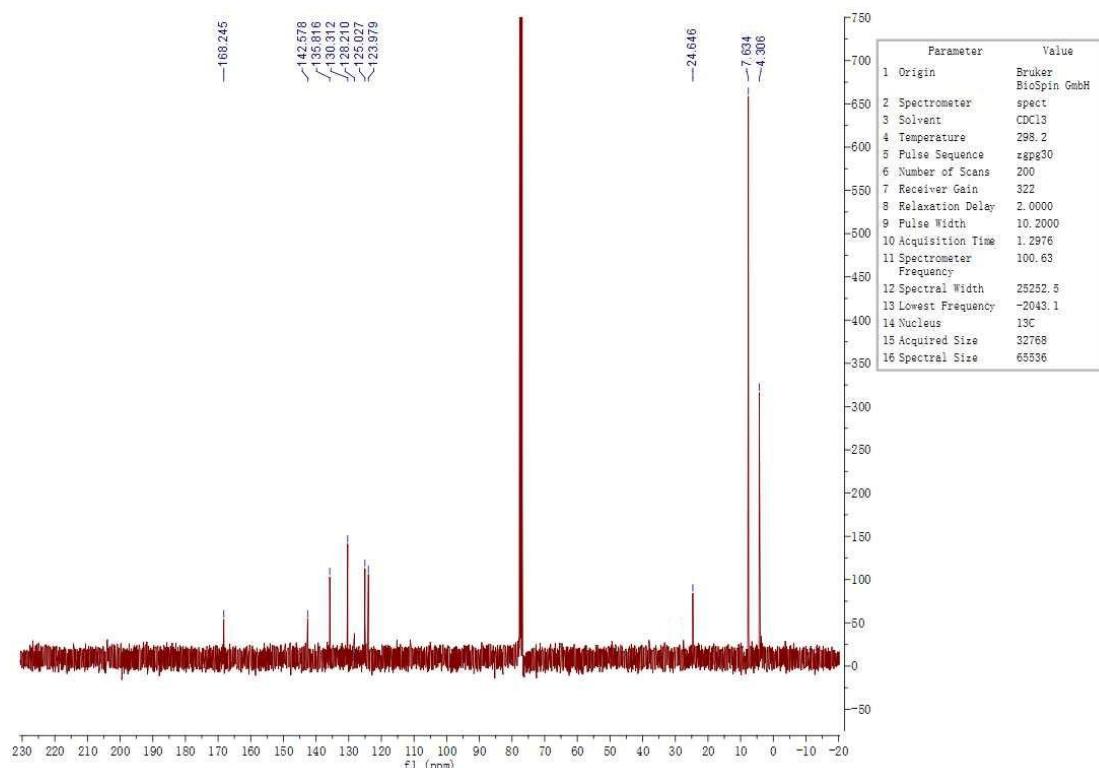
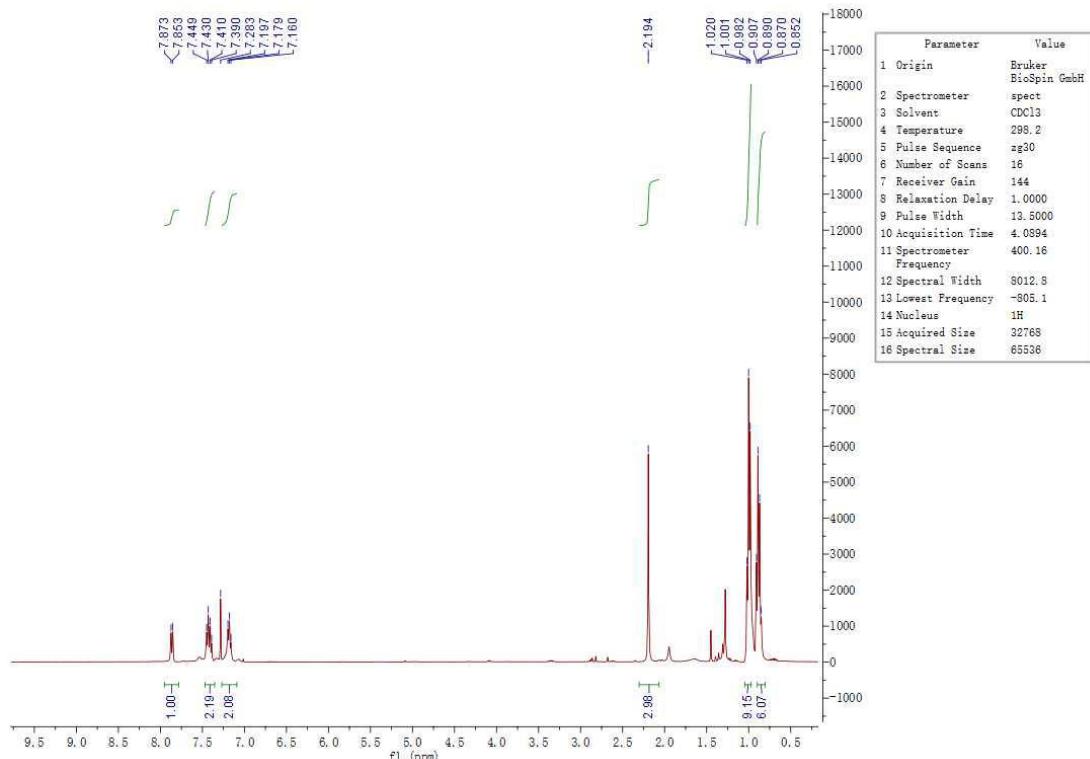
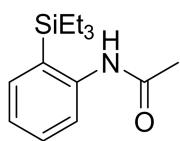
N-(2-(triethylsilyl)phenyl)butyramide (4b)



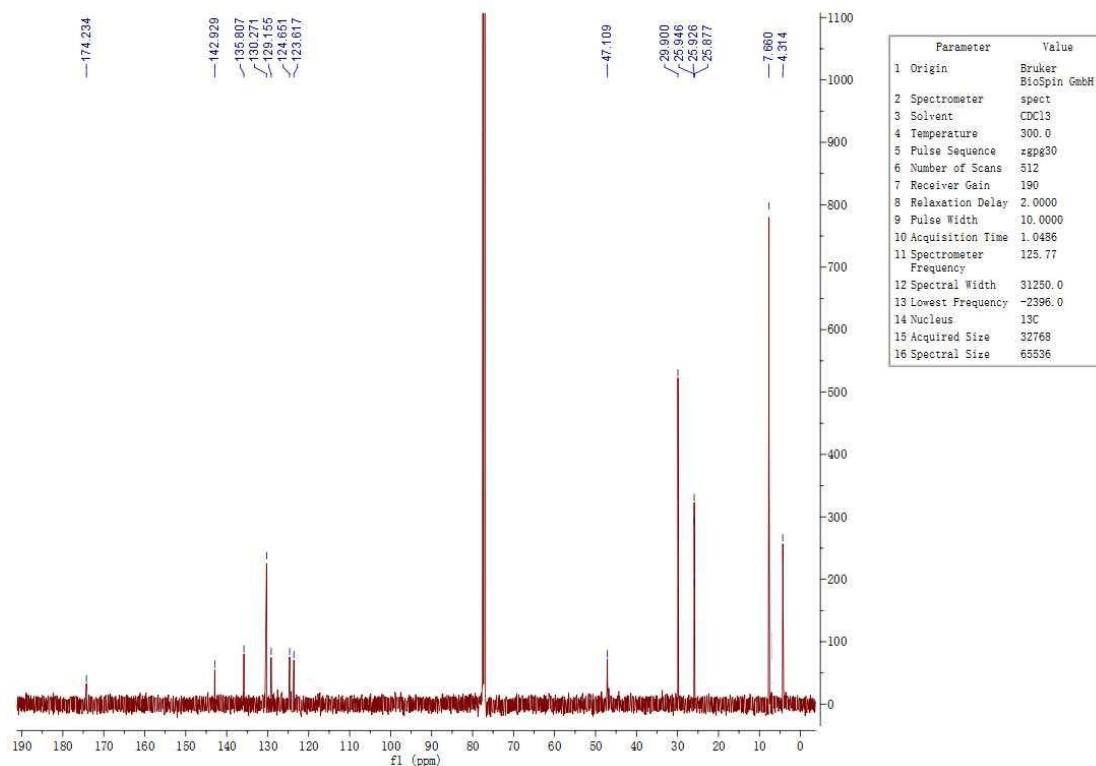
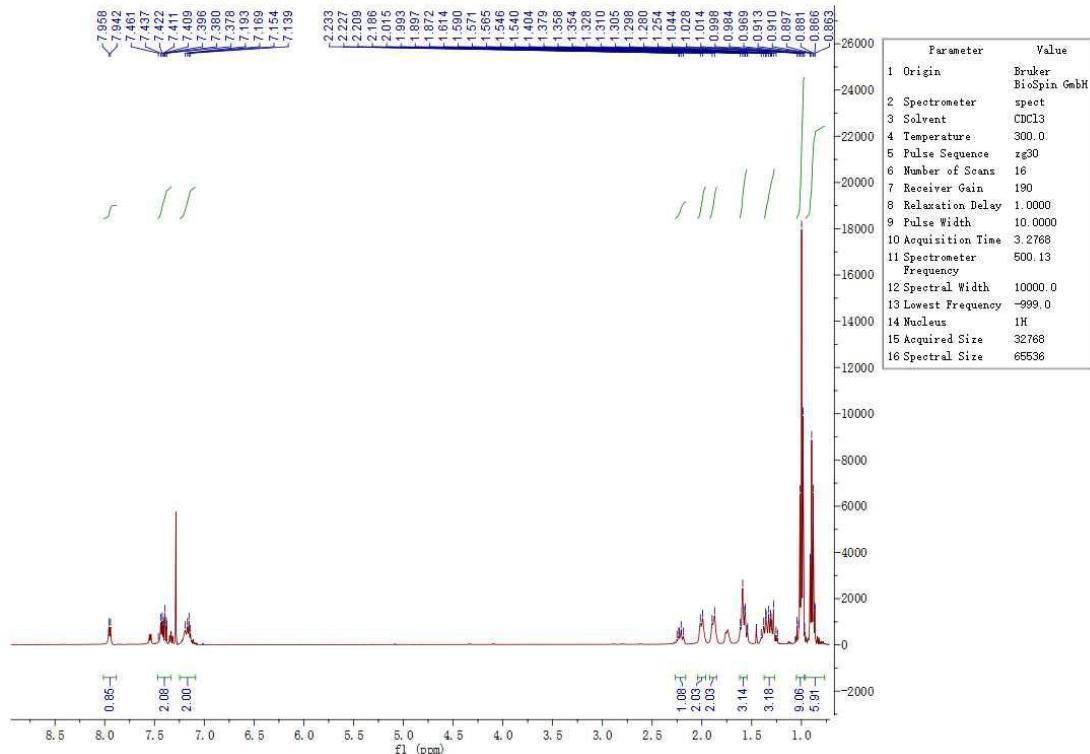
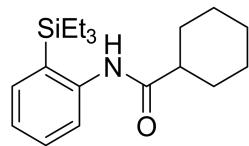
N-(2-(triethylsilyl)phenyl)isobutyramide (4c)



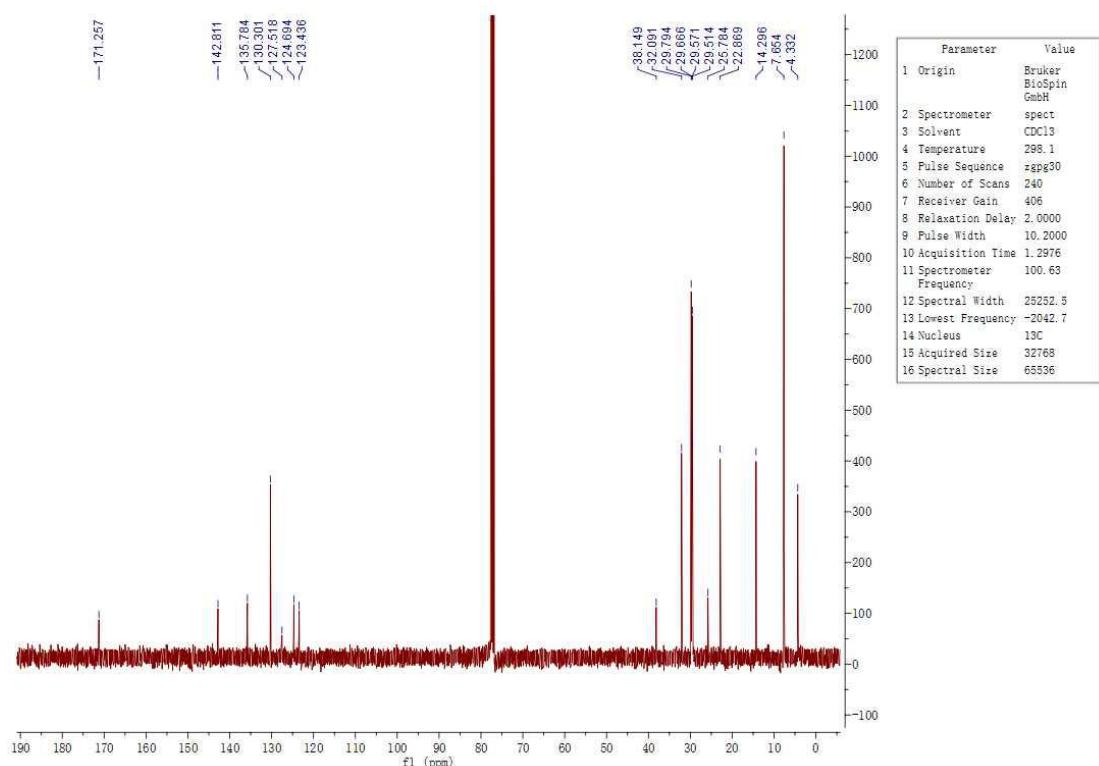
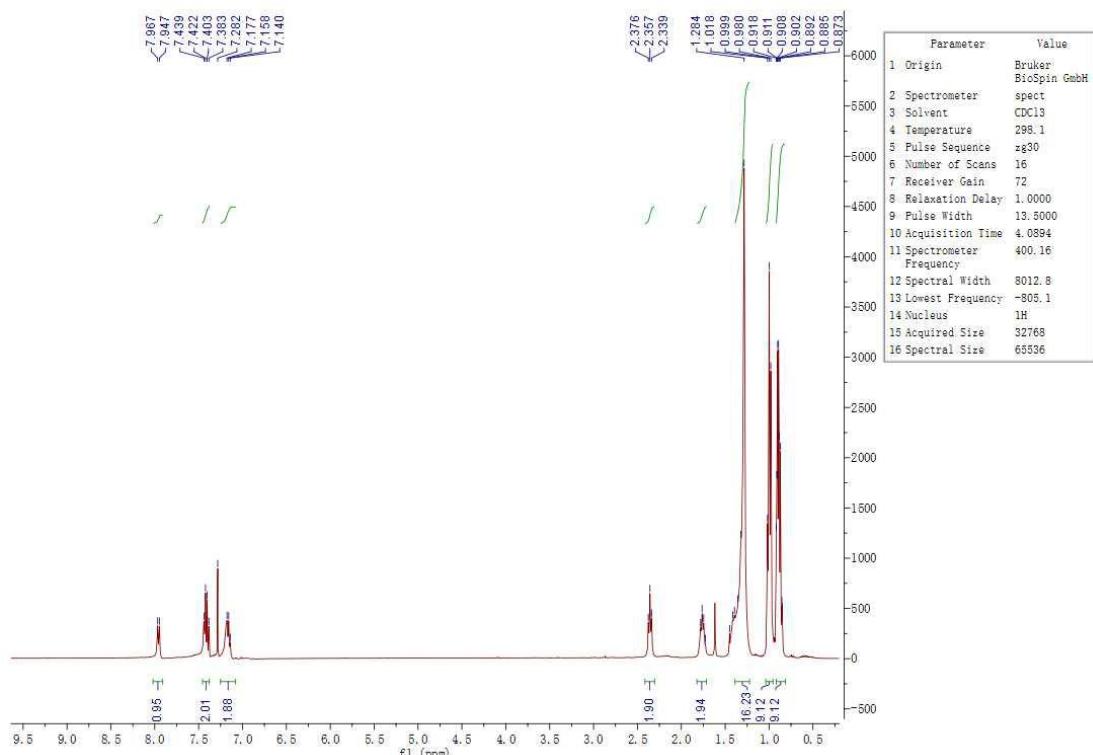
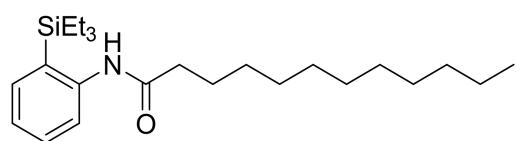
N-(2-(triethylsilyl)phenyl)acetamide (4d)



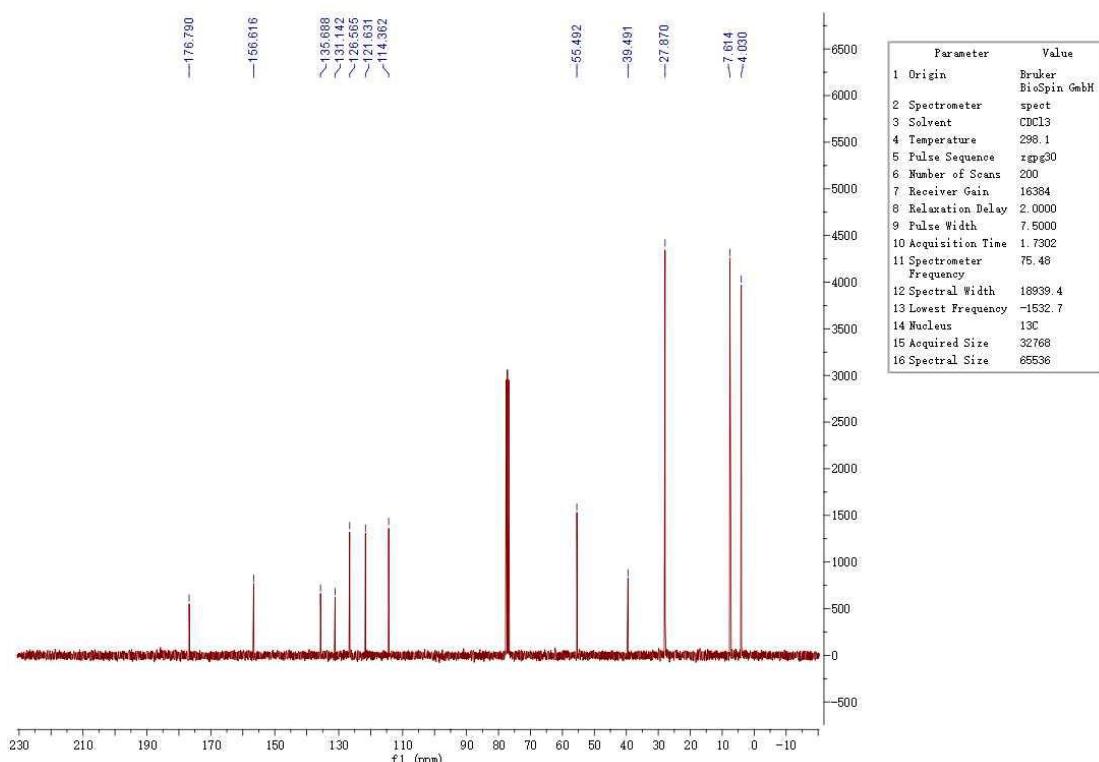
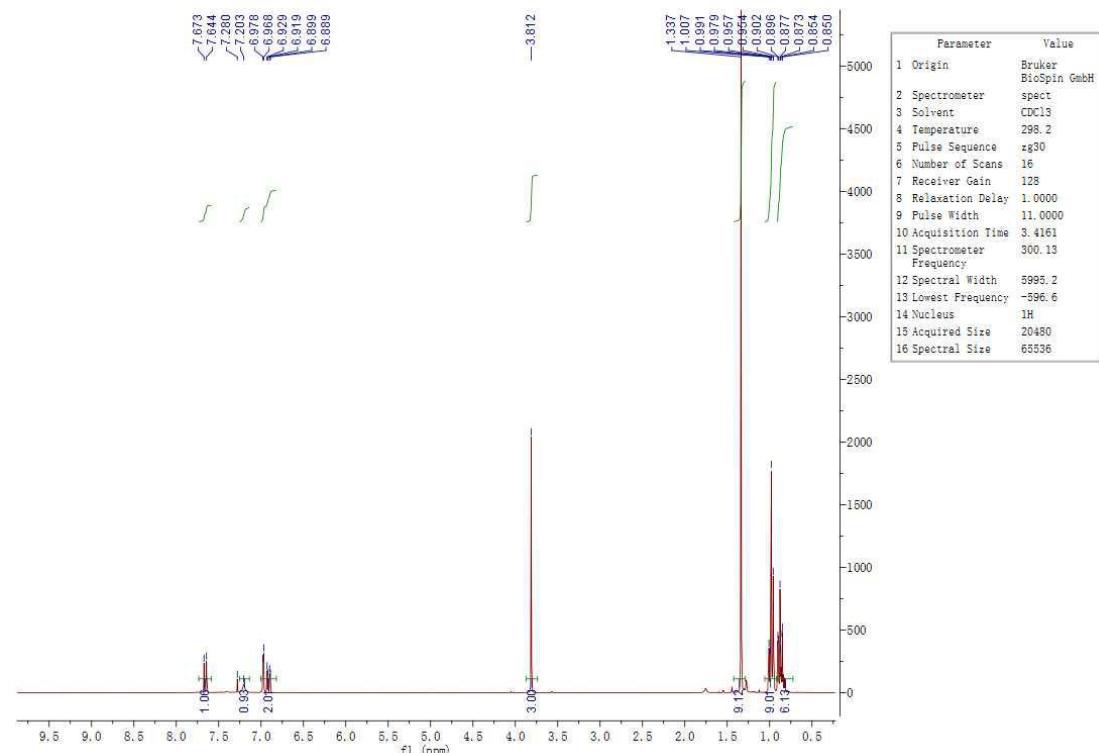
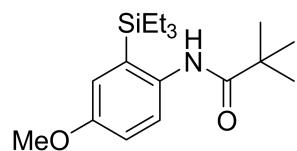
N-(2-(triethylsilyl)phenyl)cyclohexanecarboxamide (4e)



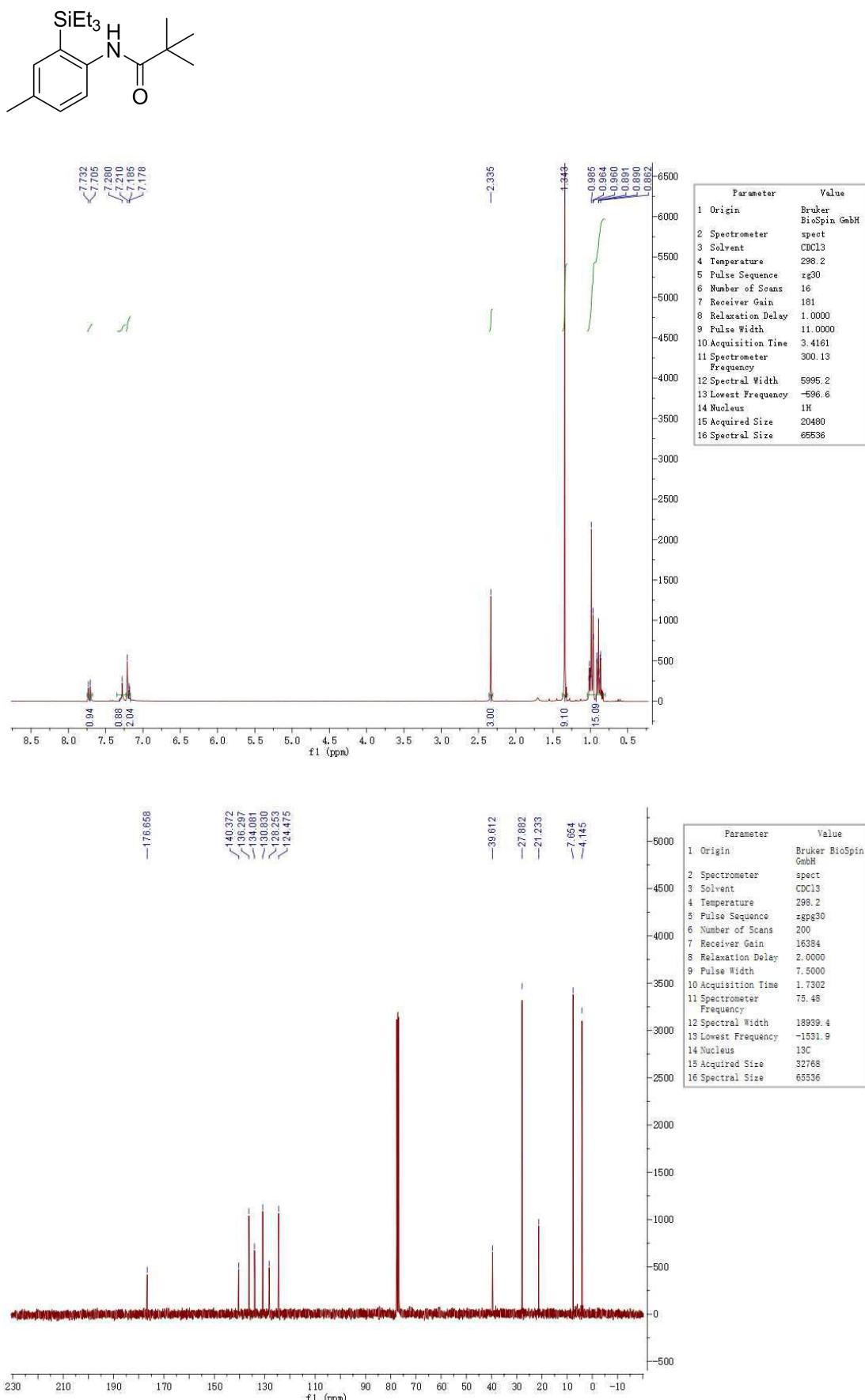
N-(2-(triethylsilyl)phenyl)dodecanamide (4f)



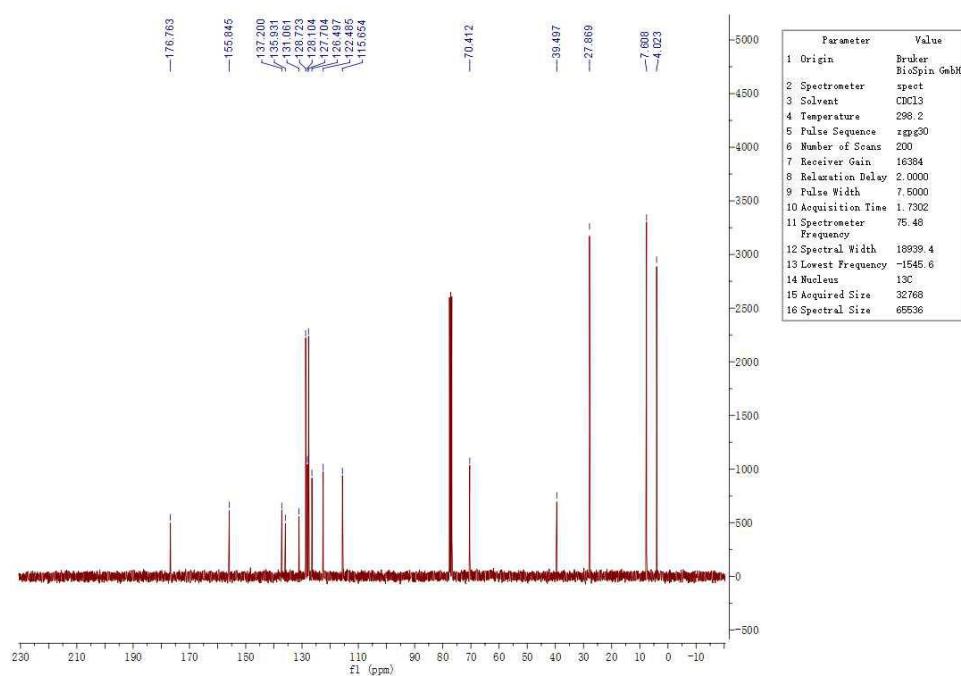
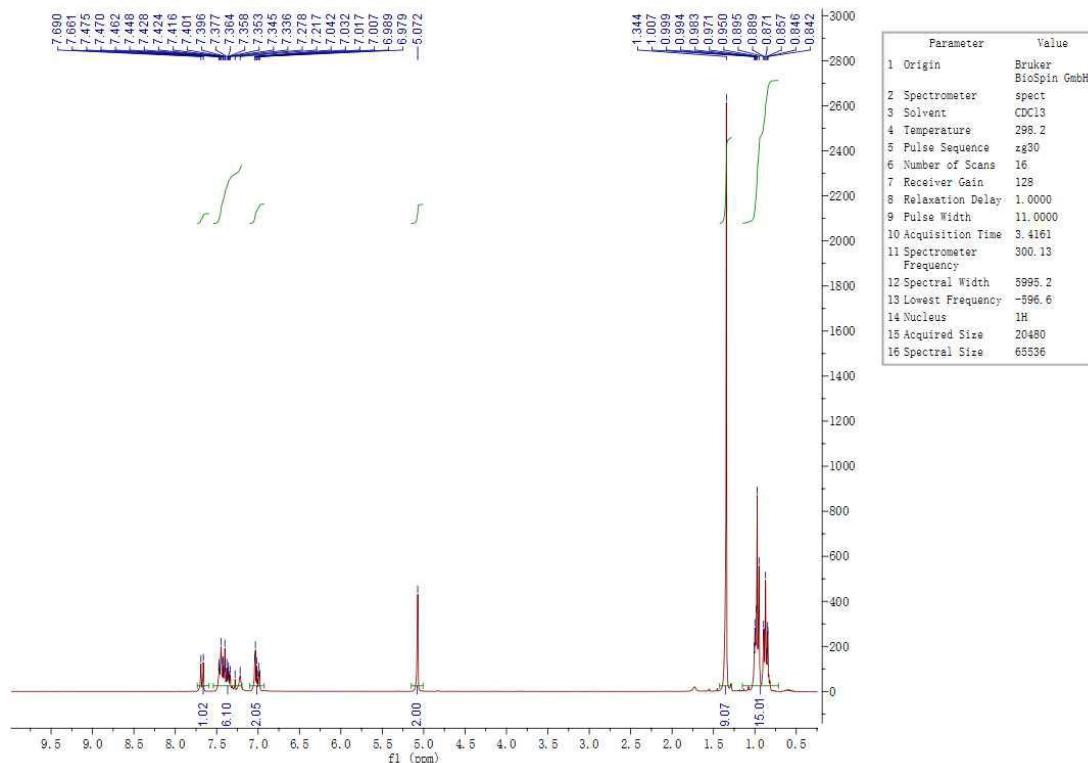
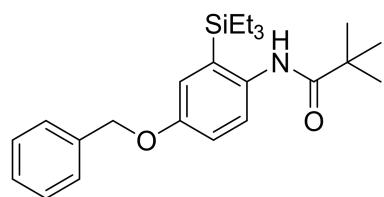
N-(4-methoxy-2-(triethylsilyl)phenyl)pivalamide (4g)



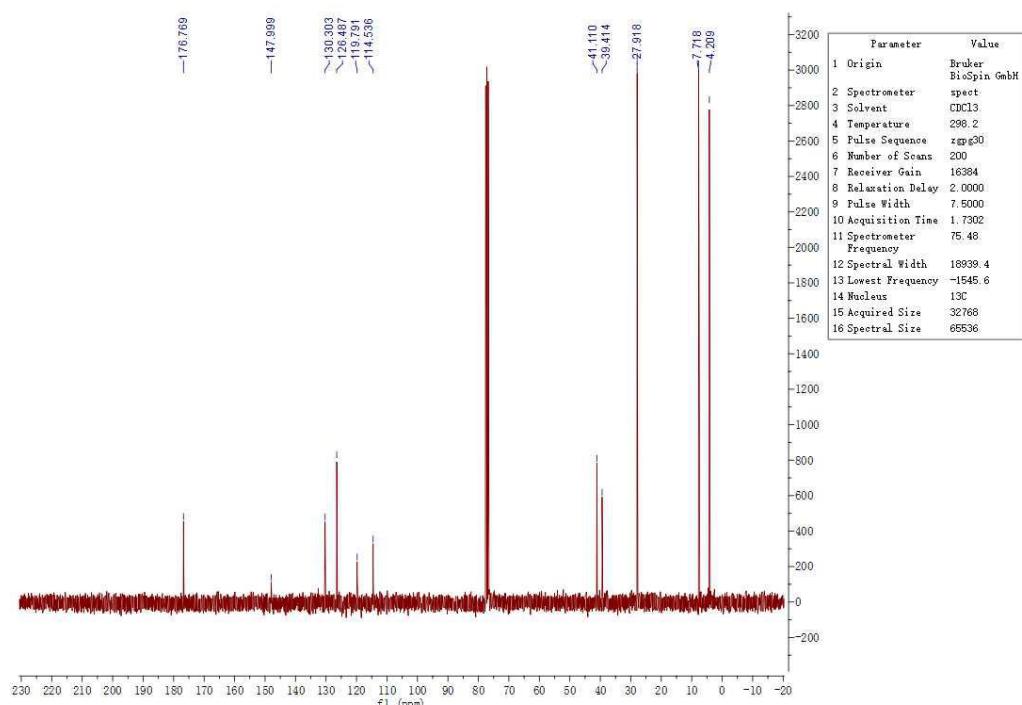
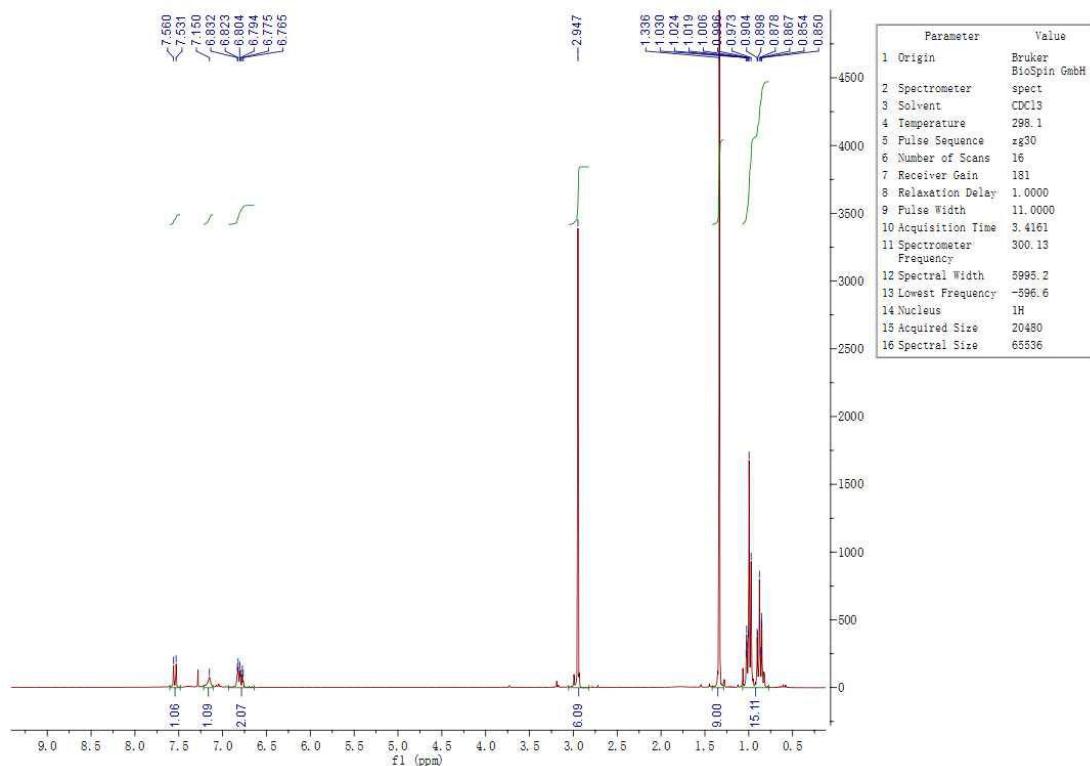
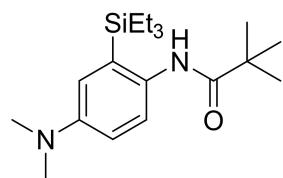
N-(4-methyl-2-(triethylsilyl)phenyl)pivalamide (4h)



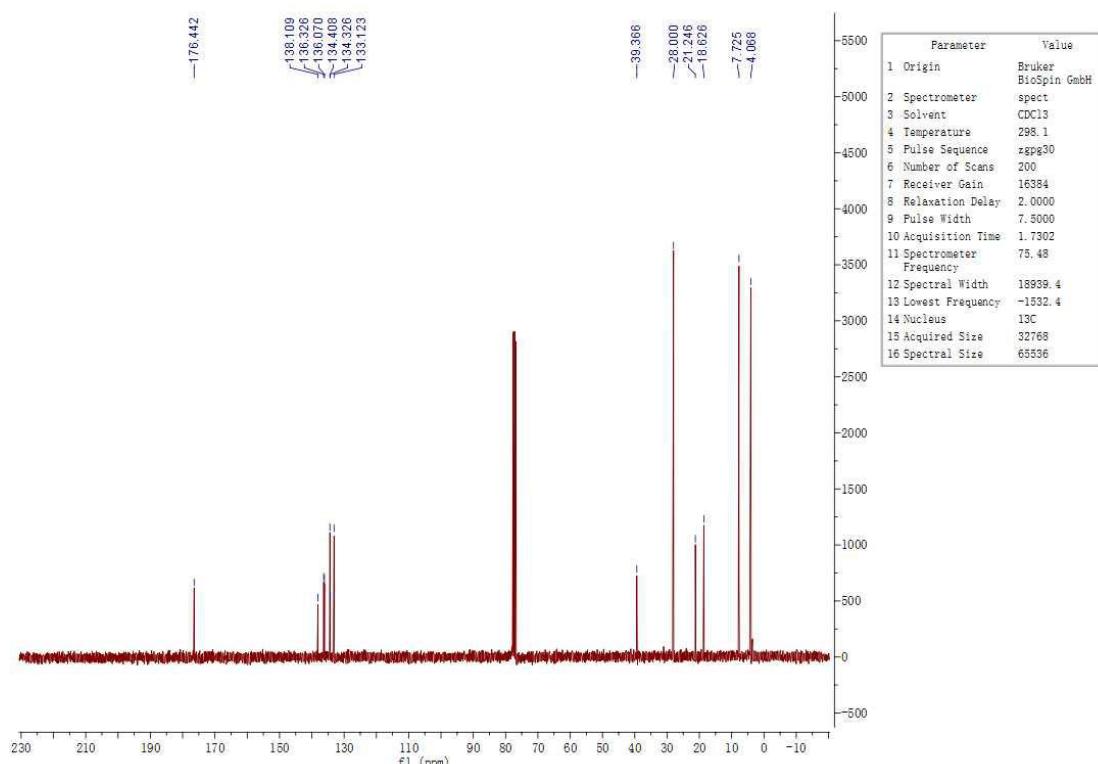
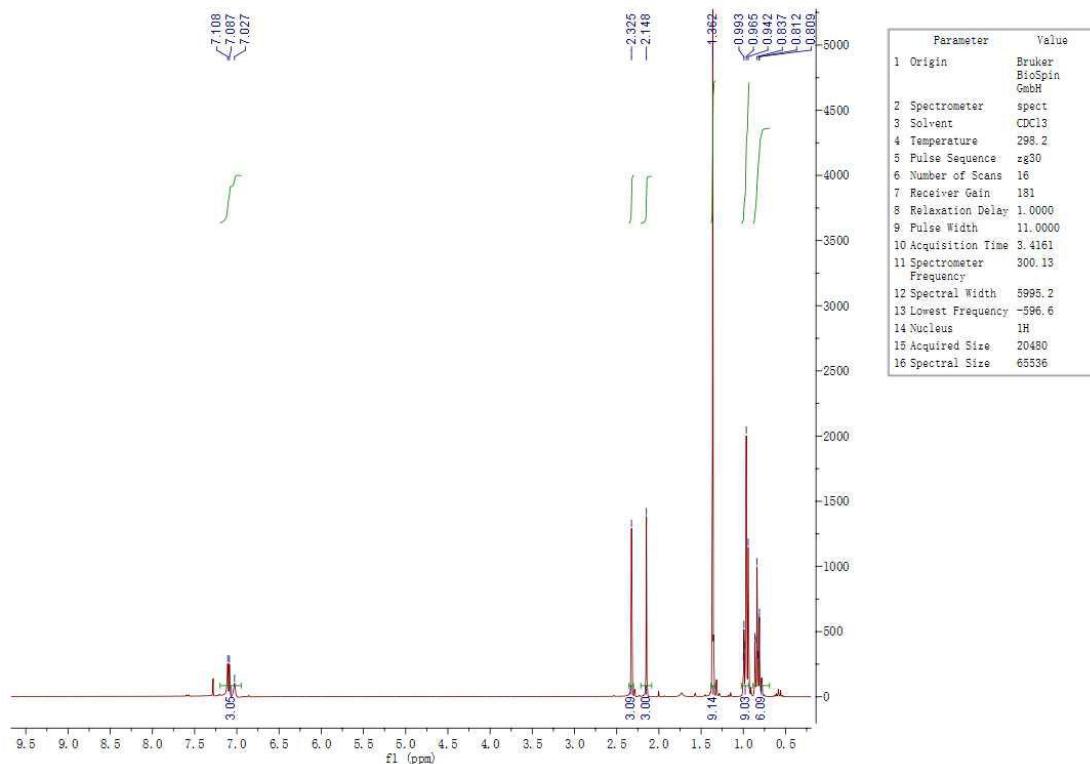
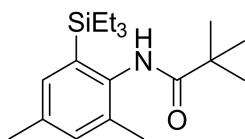
N-(4-(benzyloxy)-2-(triethylsilyl)phenyl)pivalamide (4i)



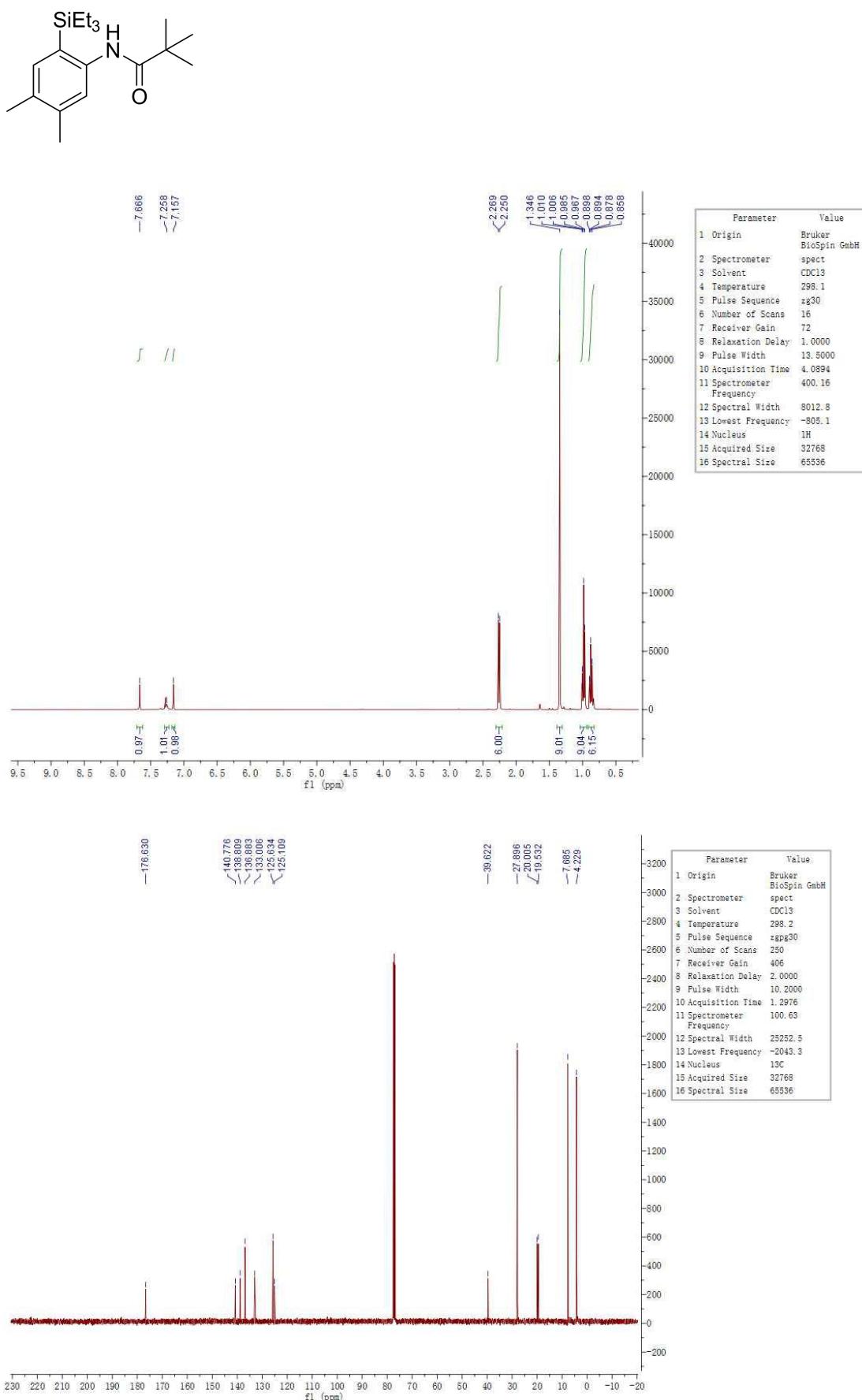
N-(4-(dimethylamino)-2-(triethylsilyl)phenyl)pivalamide (4j)



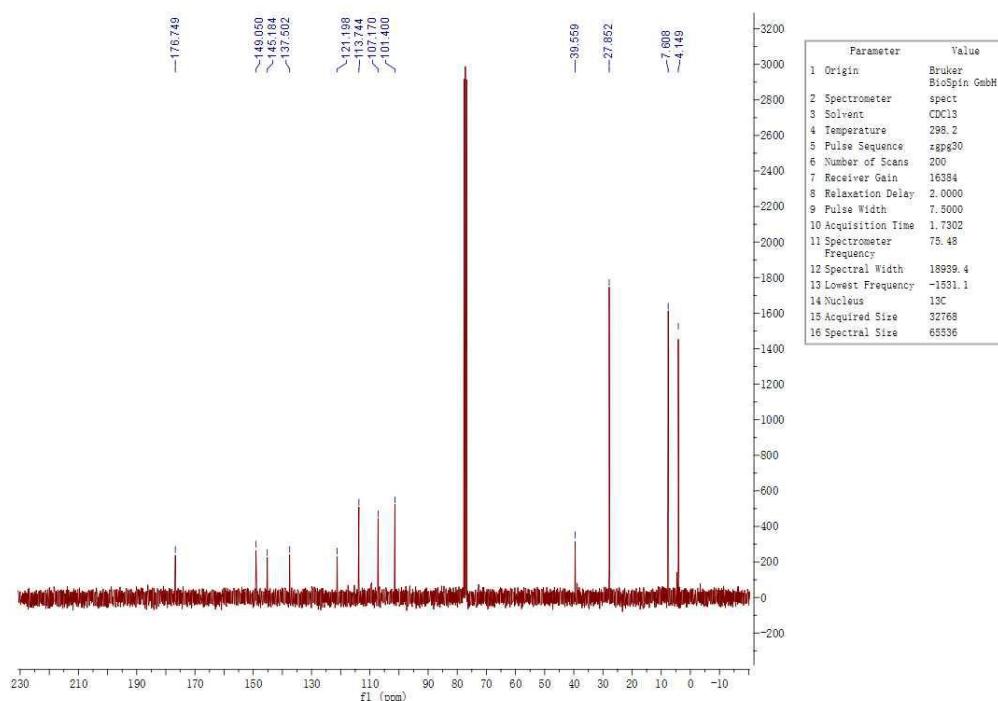
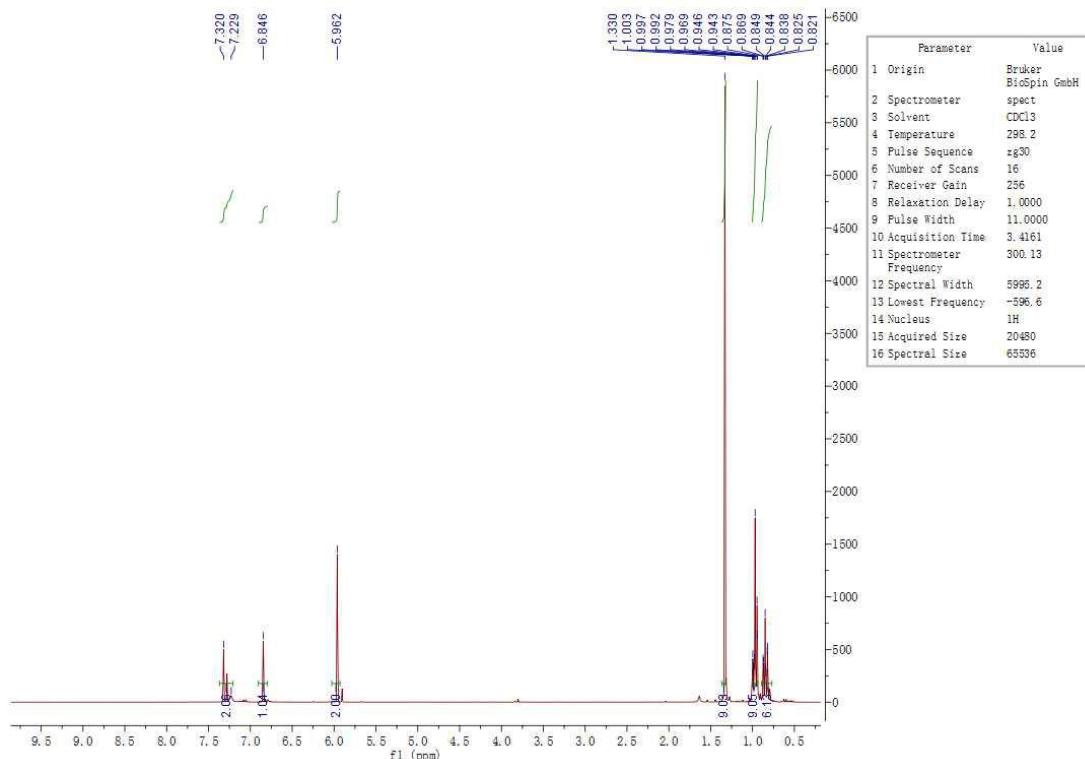
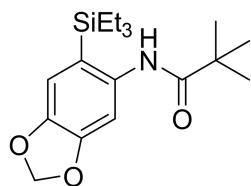
N-(2,4-dimethyl-6-(triethylsilyl)phenyl)pivalamide (4k)



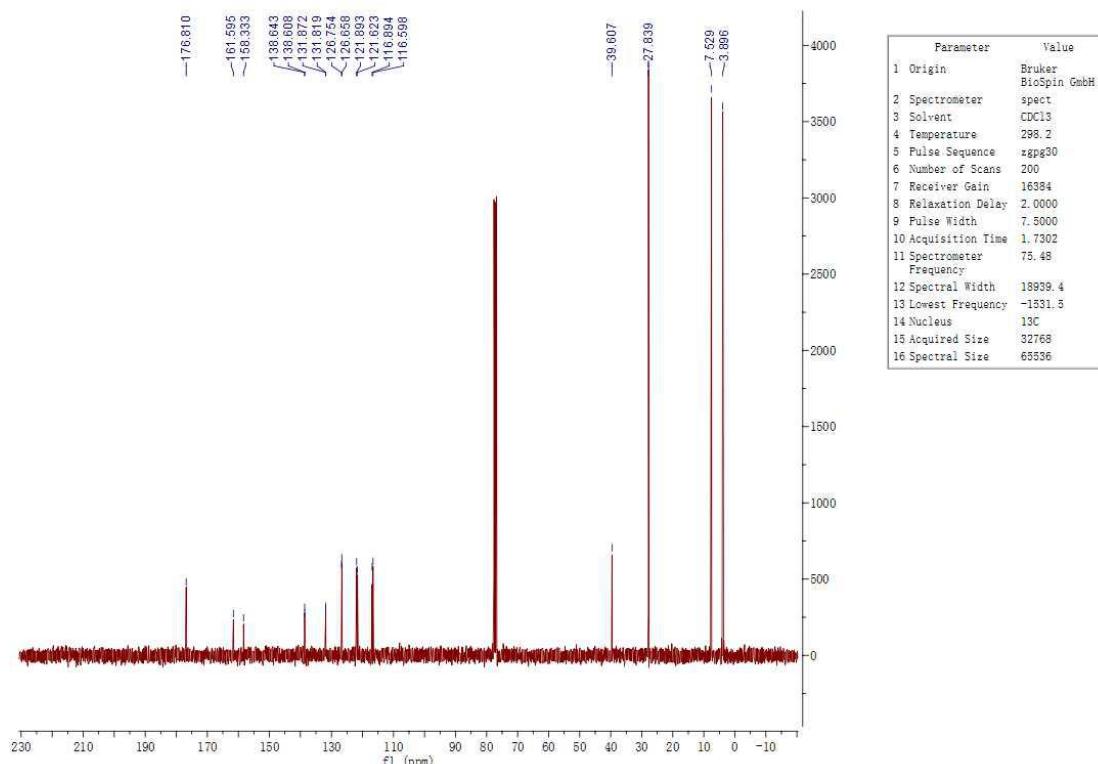
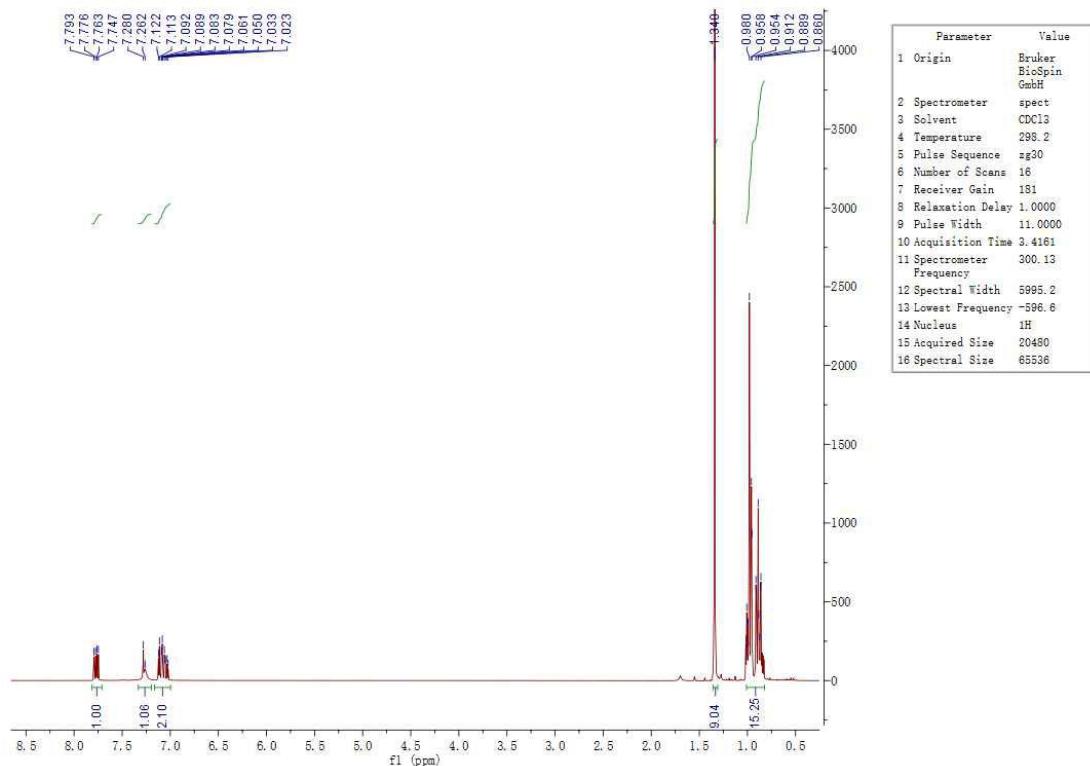
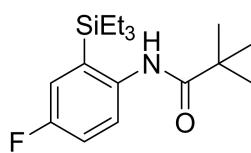
N-(4,5-dimethyl-2-(triethylsilyl)phenyl)pivalamide (4l)

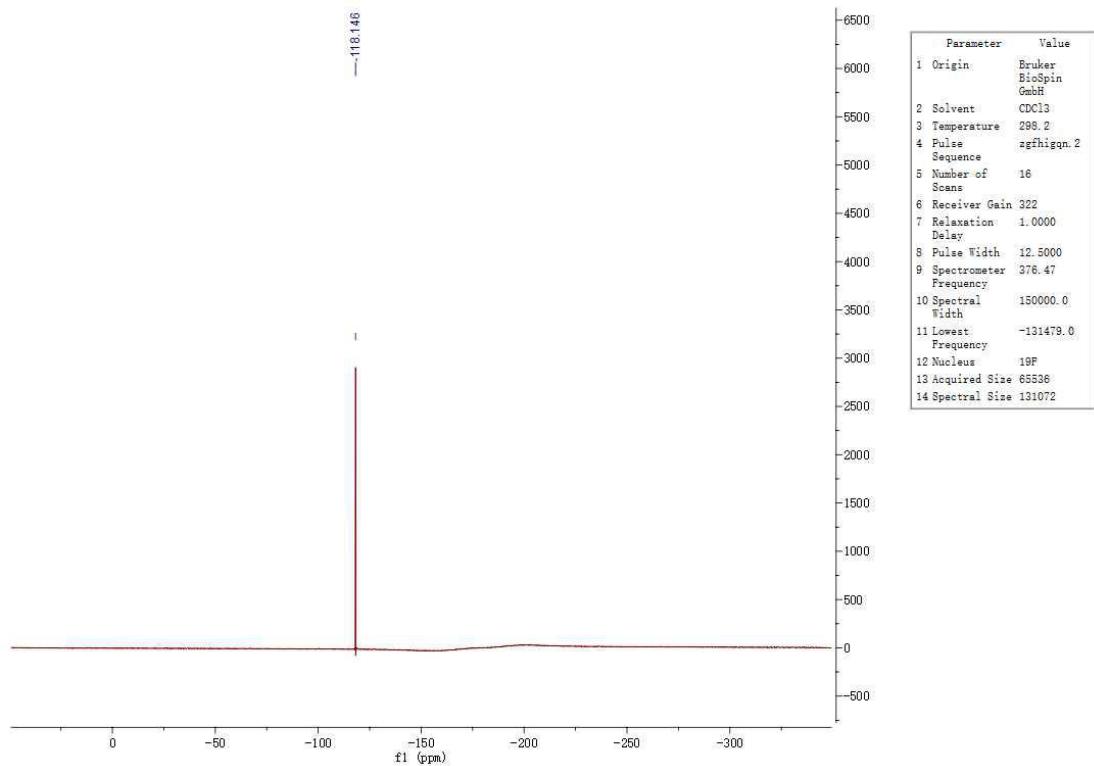


N-(6-(triethylsilyl)benzo[d][1,3]dioxol-5-yl)pivalamide (4m)

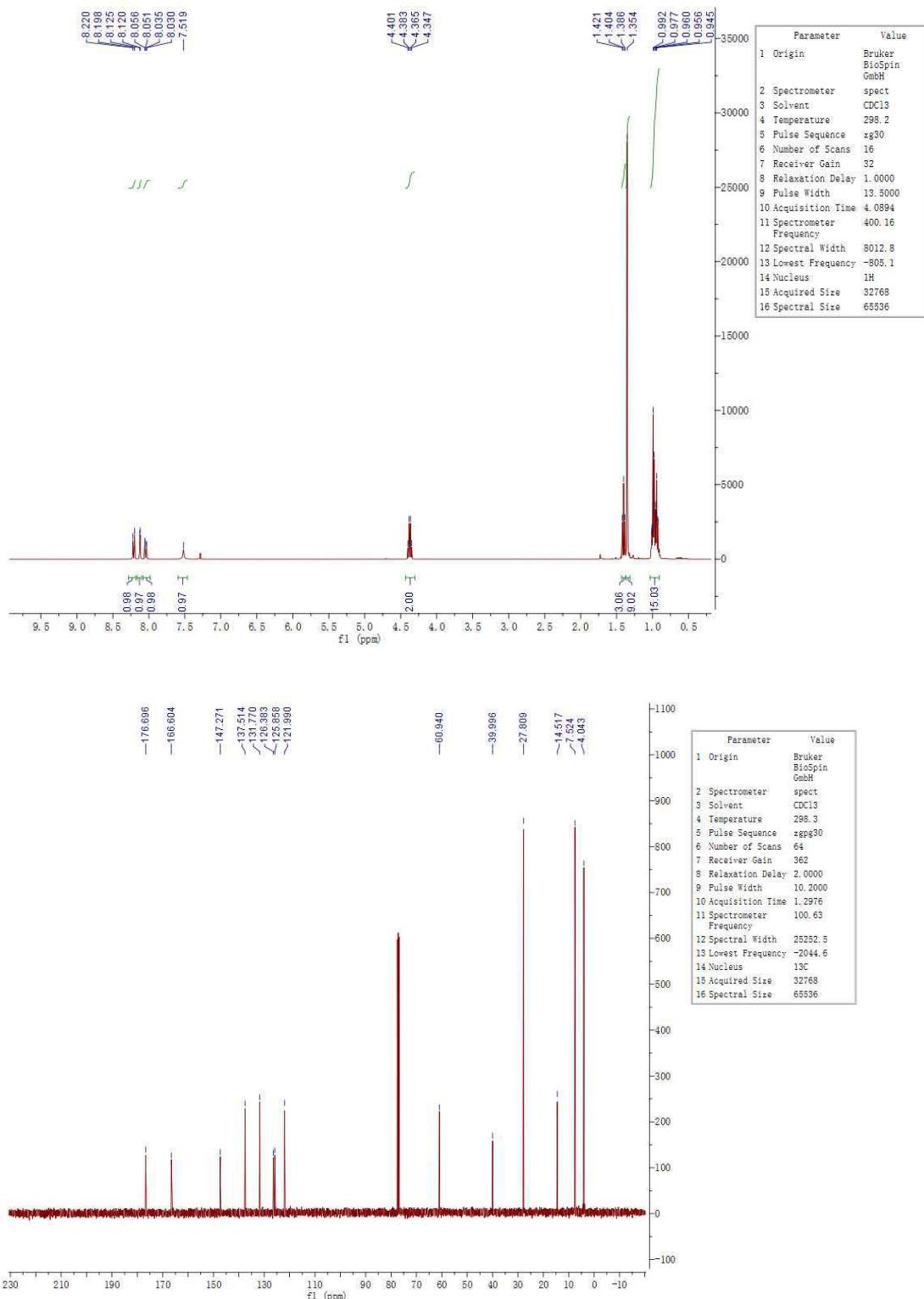
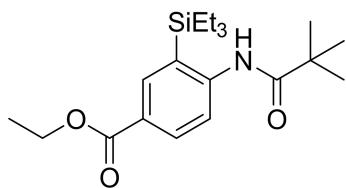


N-(4-fluoro-2-(triethylsilyl)phenyl)pivalamide (4n)

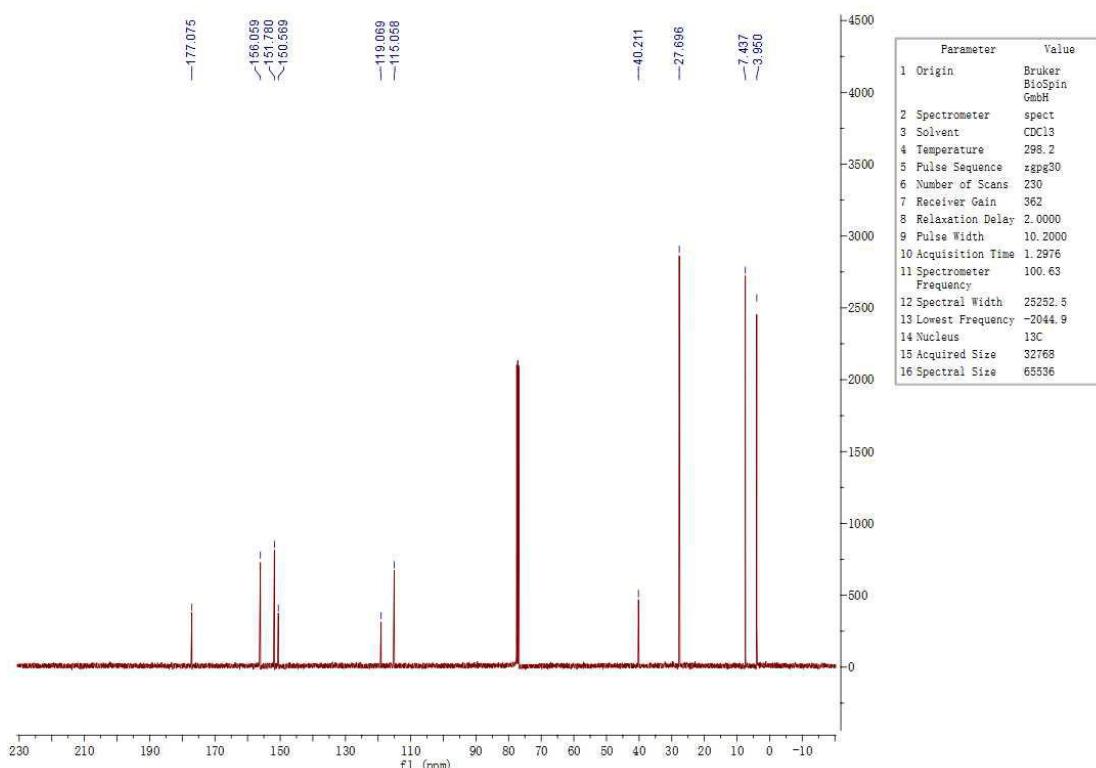
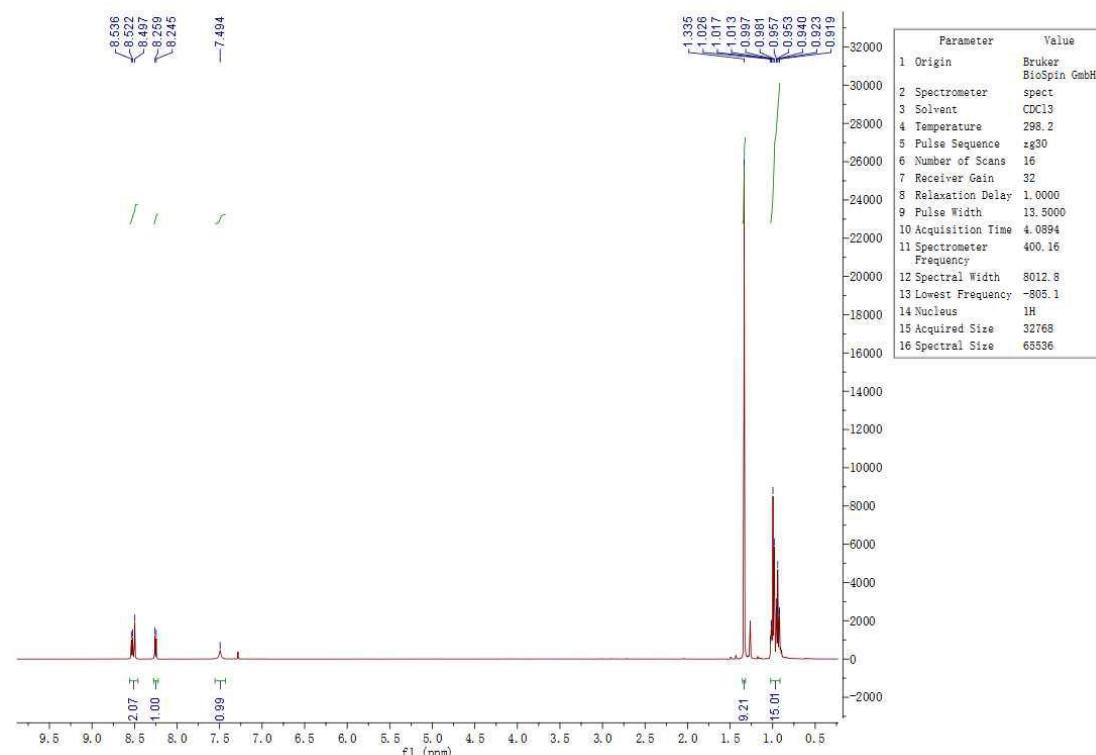
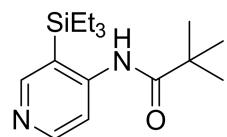




ethyl 4-pivalamido-3-(triethylsilyl)benzoate (4o**)**



N-(3-(triethylsilyl)pyridin-4-yl)pivalamide (4p)



N-methyl-N-(4-methylbenzyl)aniline (1a')

