

Electronic Supporting Information

Title: FeCl₃ catalyzed regioselective ring-opening of aryl oxirane with 4-hydroxycoumarin for the synthesis of furo[3,2-*c*]coumarins

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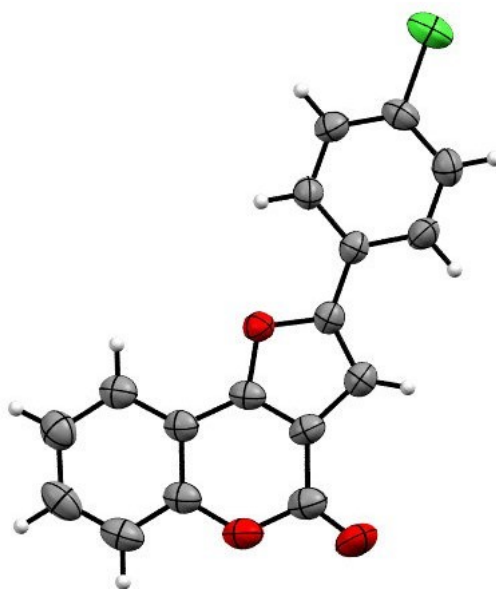


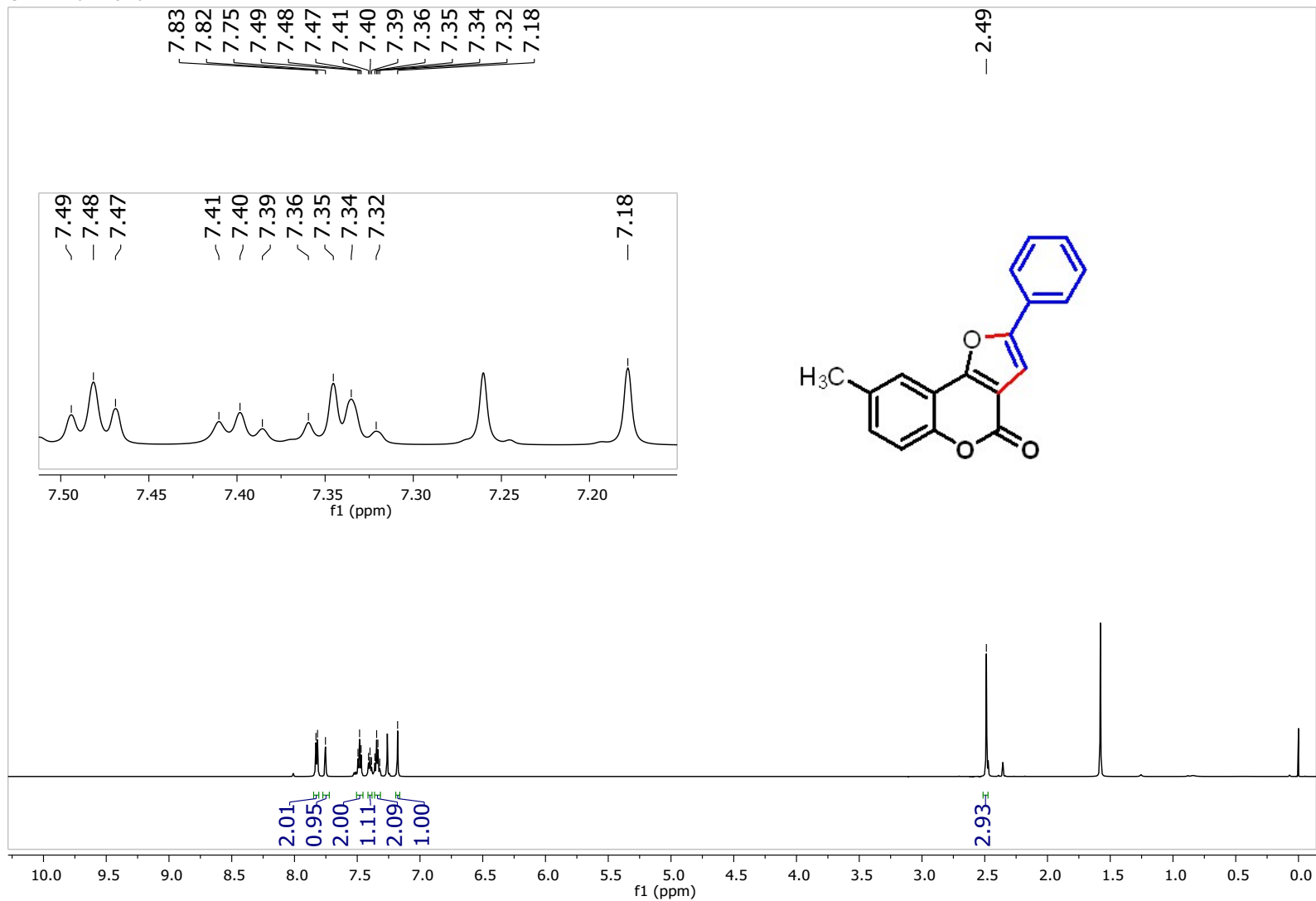
Figure S1. ORTEP Diagrams of compound **3h**.

Table S1. Crystal data and structure refinement for compound **3h**

Entry	Identification Code	Compound 3h
01	Empirical formula	C ₁₇ H ₉ ClO ₃
02	Formula weight	296.69
03	Temperature	297.00
04	Wavelength	0.71073 Å
05	Radiation type	MoKα
06	Radiation system	Fine-focus sealed tube
07	Crystal system	orthorhombic
08	Space group	Pna2 ₁
09	Cell length	a= 25.055(6) /Å b= 3.8926(9) /Å c= 13.226(3) /Å
10	Cell angle	α=90 β=90(2) γ=90
11	Cell volume	1290.0(5)
12	Density	1.528
13	Completeness to theta	99
14	Absorption correction	multi-scan
15	Refinement method	Full-matrix least-squares on F ²
16	Index ranges	-30 ≤ h ≤ 30, -4 ≤ k ≤ 4, -16 ≤ l ≤ 16
17	Reflection number	2527
18	2θ range	4.478 to 51.982
19	Cell formula units Z	4
20	CCDC no	2286699

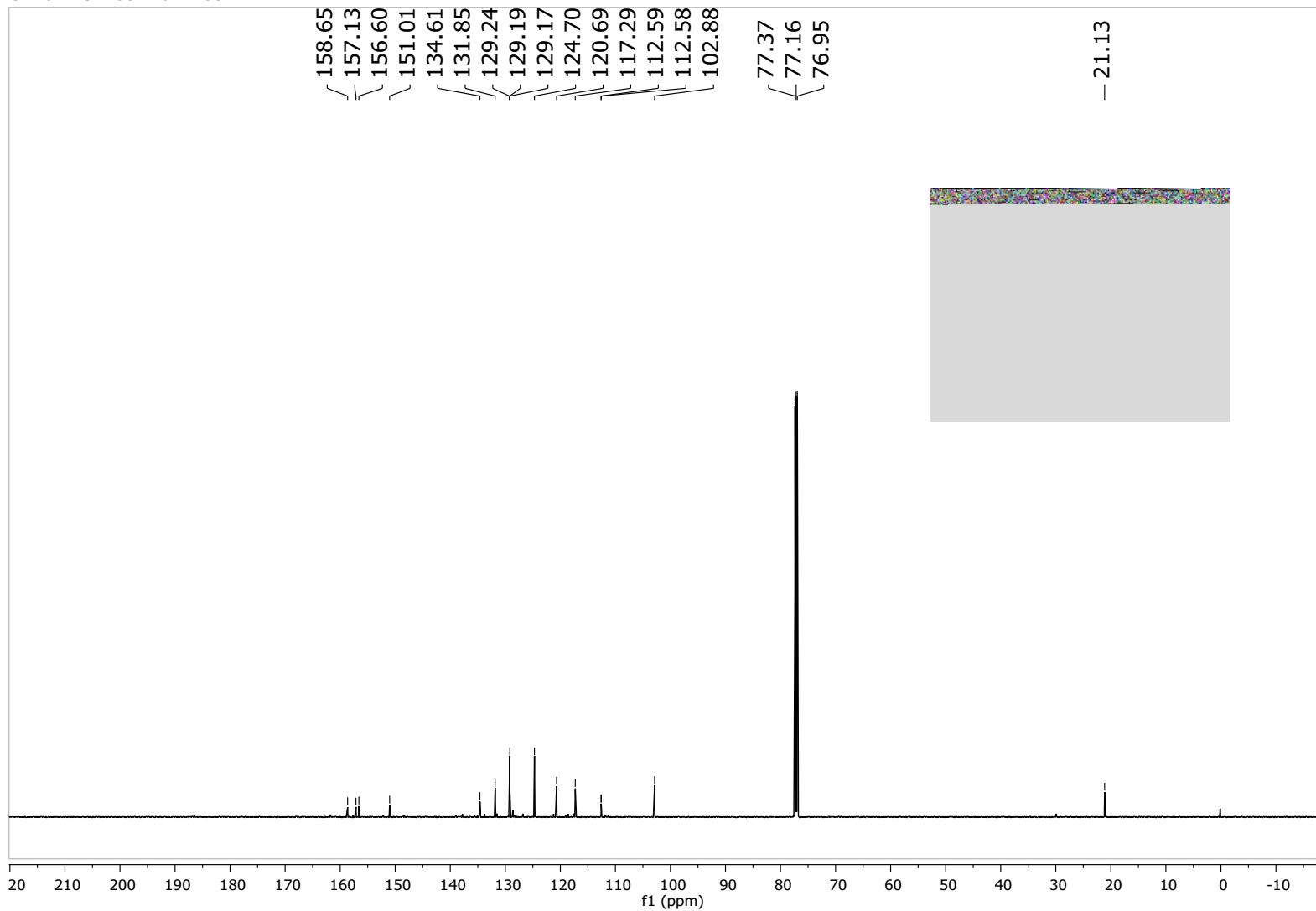
¹H NMR Spectrum of 8-Methyl-2-phenyl-4H-furo[3,2-c]chromen-4-one (3a)

SF-REV-26-1H.3.fid - 1H



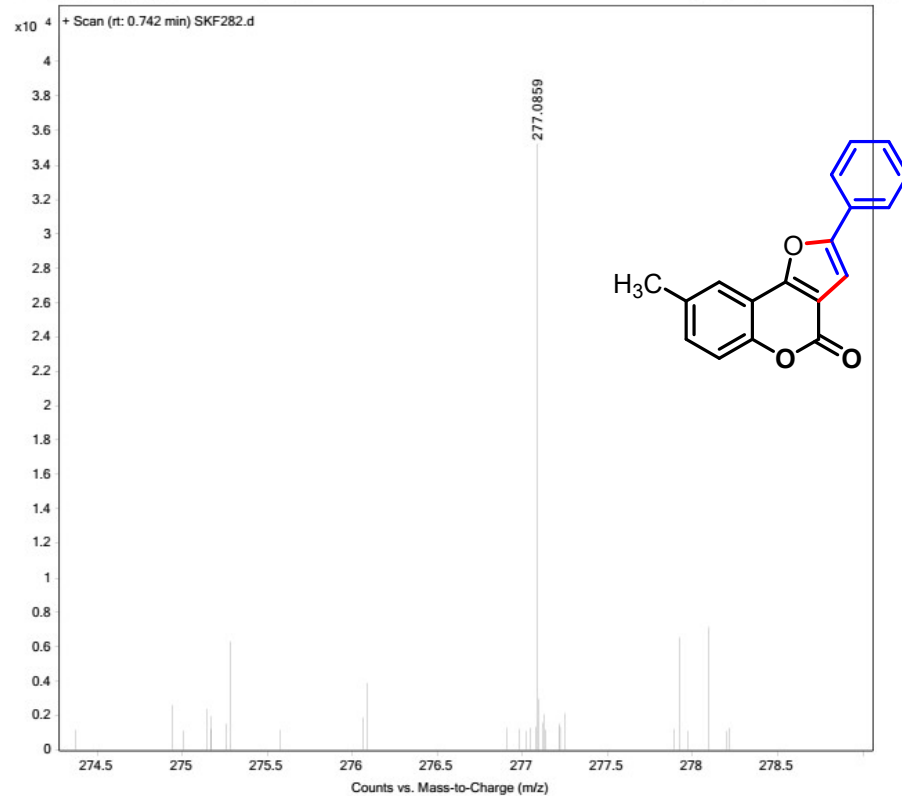
¹³C NMR Spectrum of 8-Methyl-2-phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3a)

SF-4OHM-ST-13C.4.fid — 13C

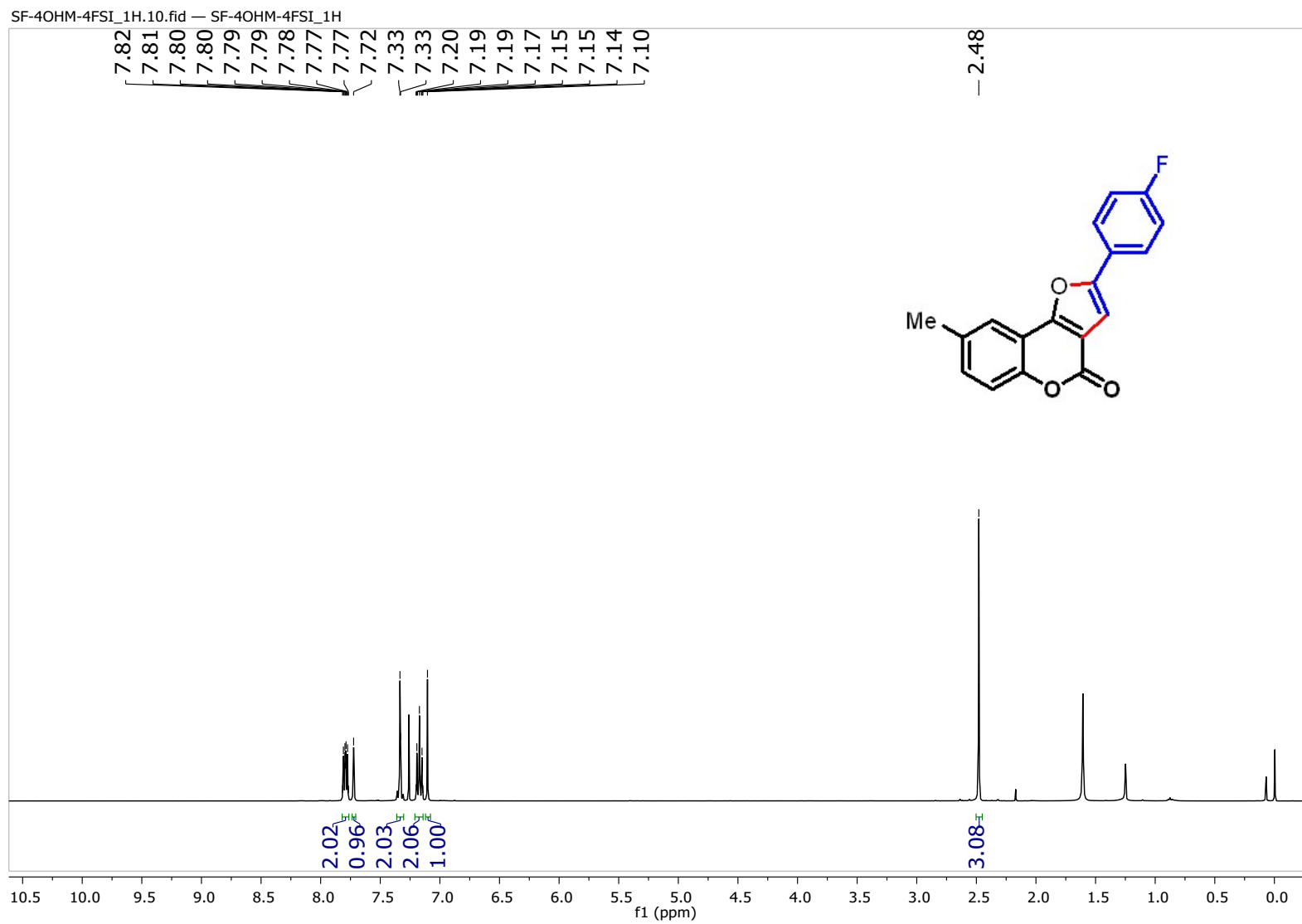


HRMS Spectrum of 8-Methyl-2-phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3a)

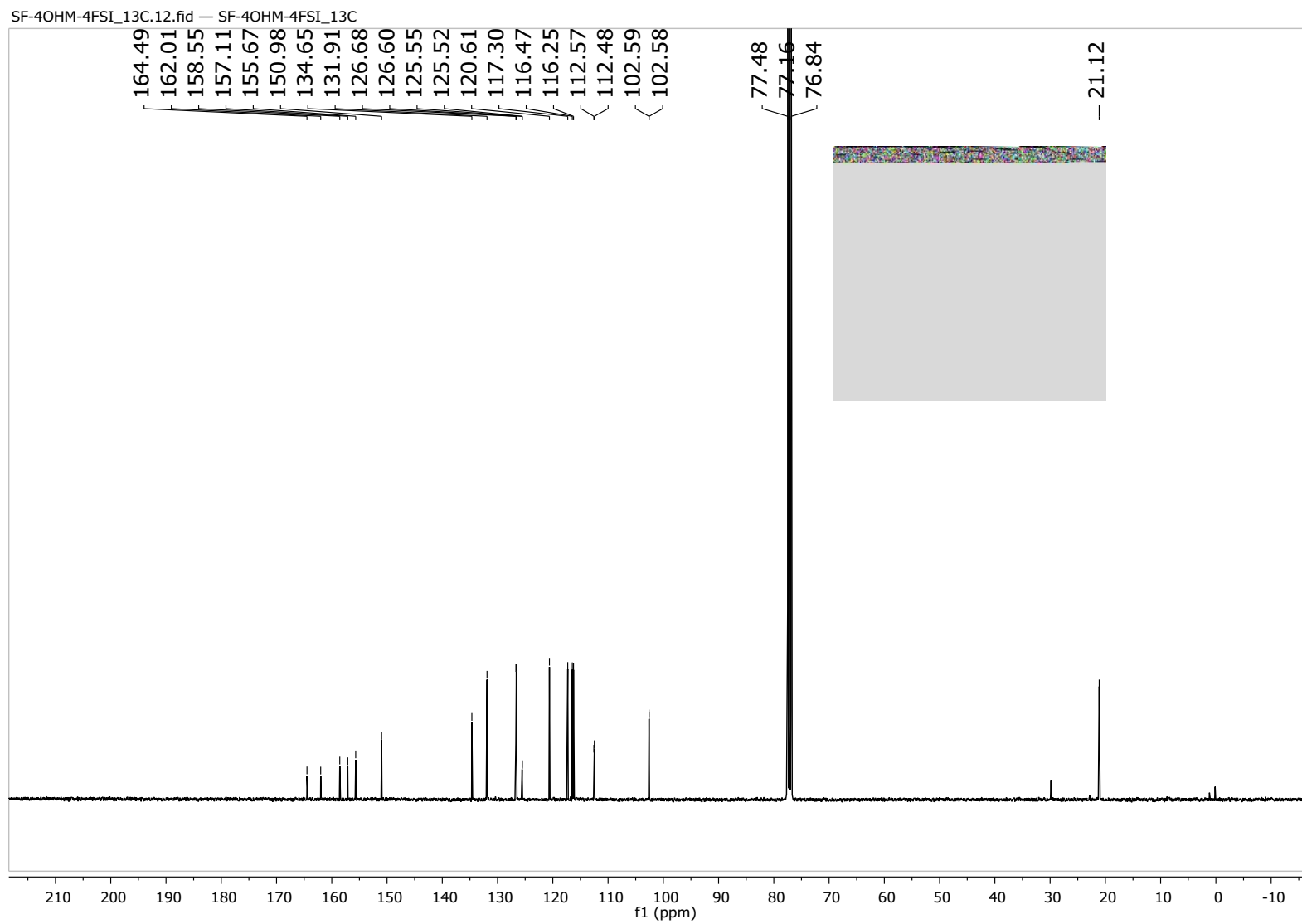
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¹H NMR Spectrum of 2-(4-Fluorophenyl)-8-methyl-4H-furo[3,2-c]chromen-4-one (3b)

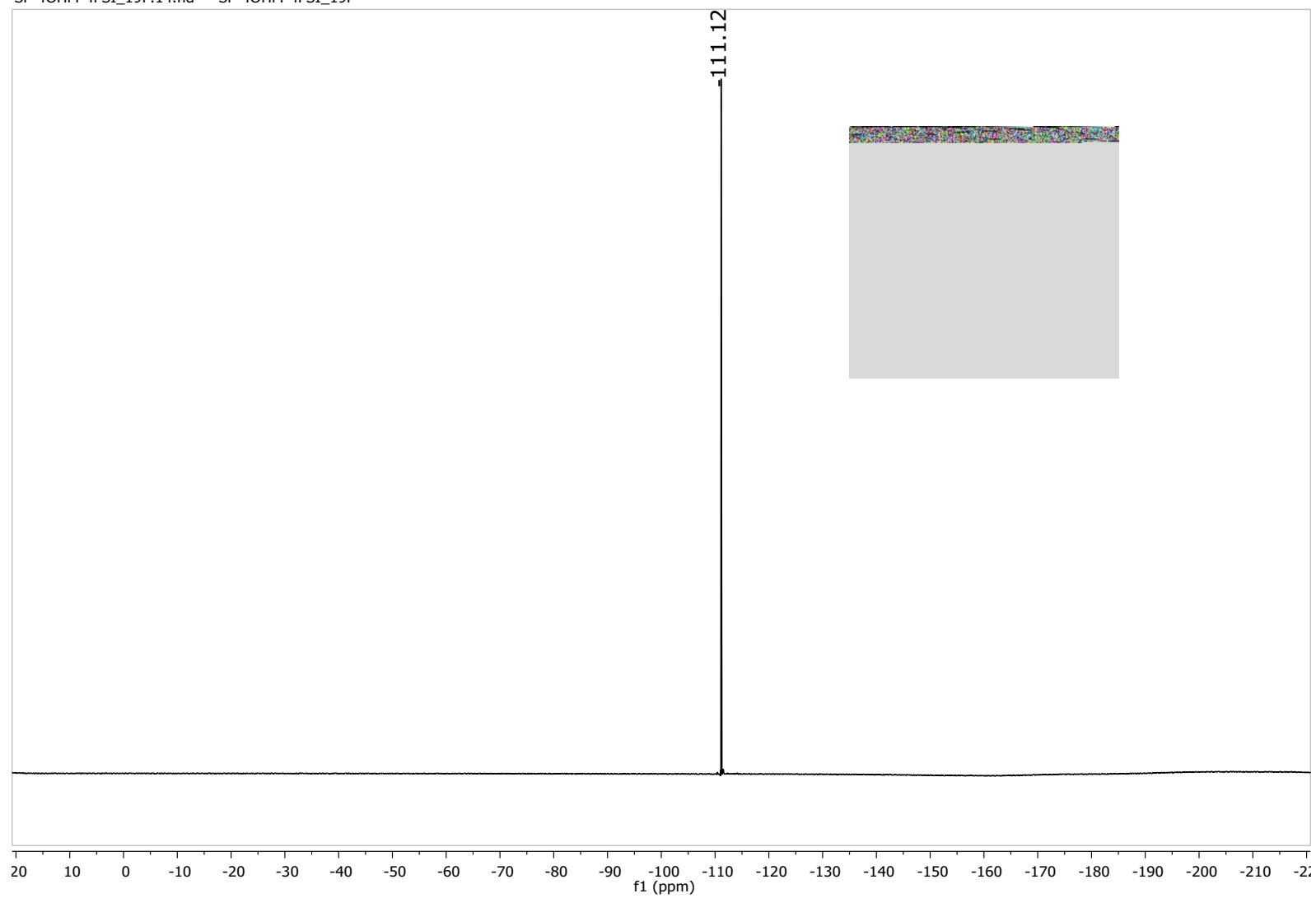


¹³C NMR Spectrum of 2-(4-Fluorophenyl)-8-methyl-4H-furo[3,2-c]chromen-4-one (3b)



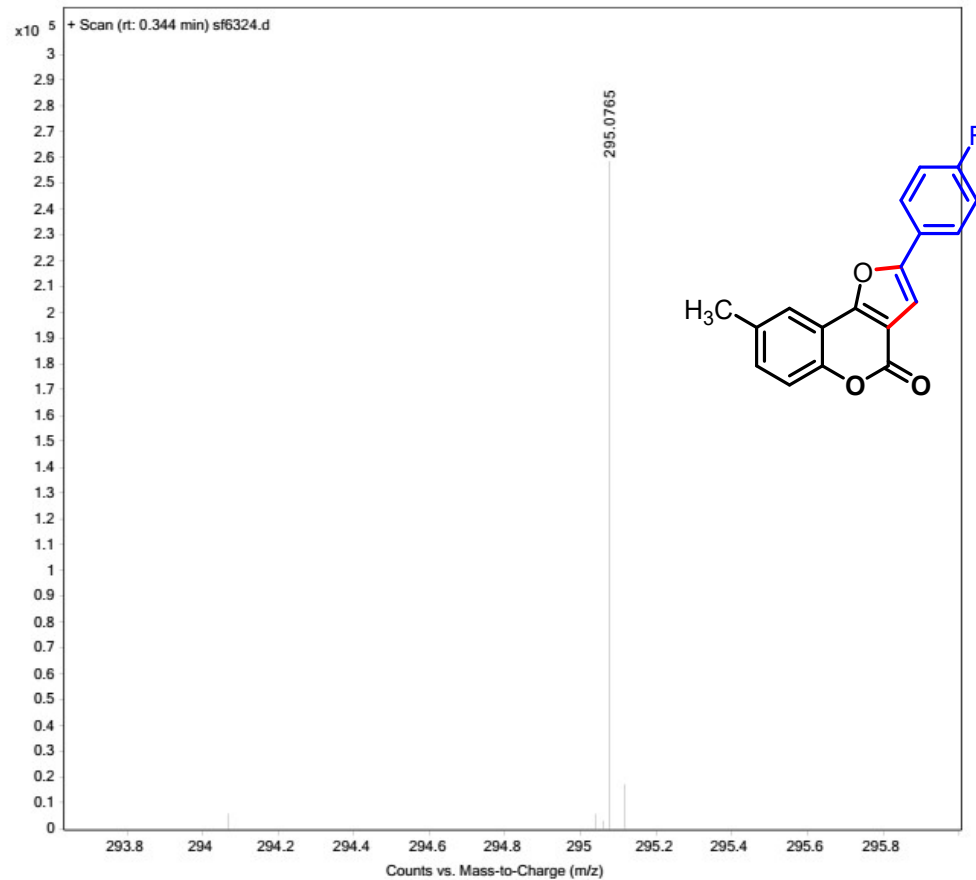
¹⁹F NMR Spectrum of 2-(4-Fluorophenyl)-8-methyl-4*H*-furo[3,2-*c*]chromen-4-one (3b)

SF-4OHM-4FSI_19F.14.fid — SF-4OHM-4FSI_19F



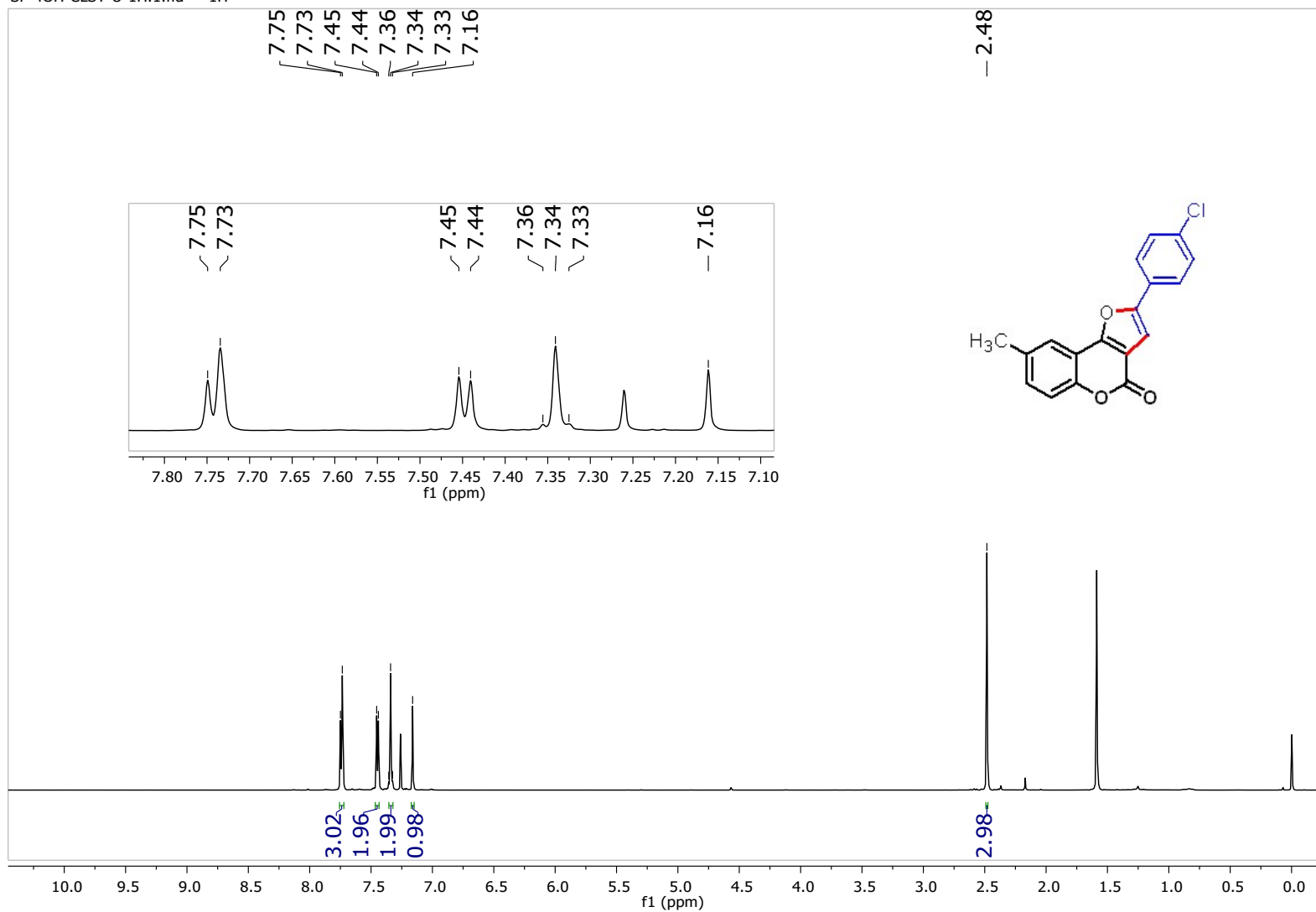
HRMS Spectrum of 2-(4-Fluorophenyl)-8-methyl-4H-furo[3,2-c]chromen-4-one (3b)

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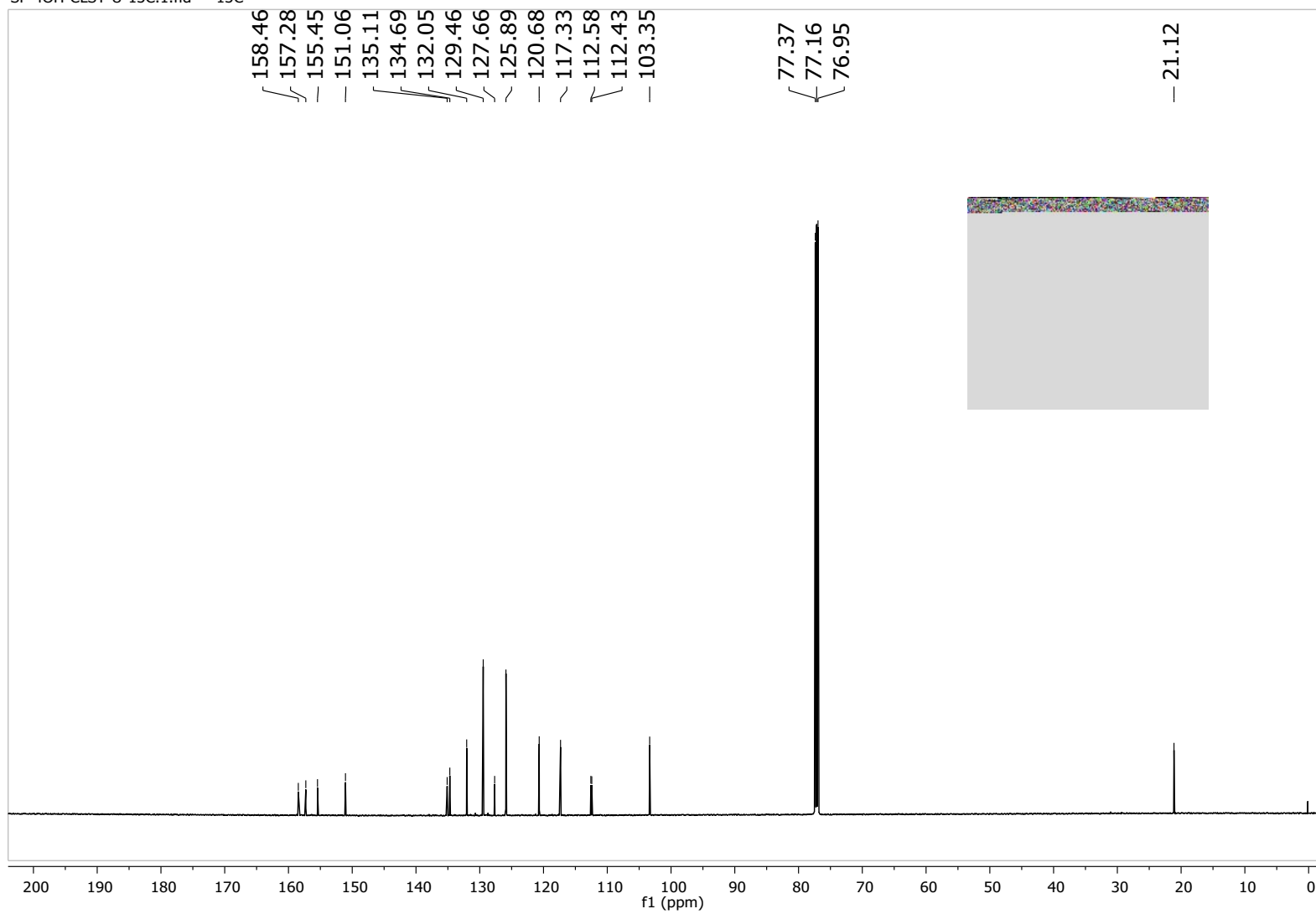
¹H NMR Spectrum of 2-(4-Chlorophenyl)-8-methyl-4H-furo[3,2-c]chromen-4-one (3c)

SF-40H-CLST-U-1H.1.fid — 1H



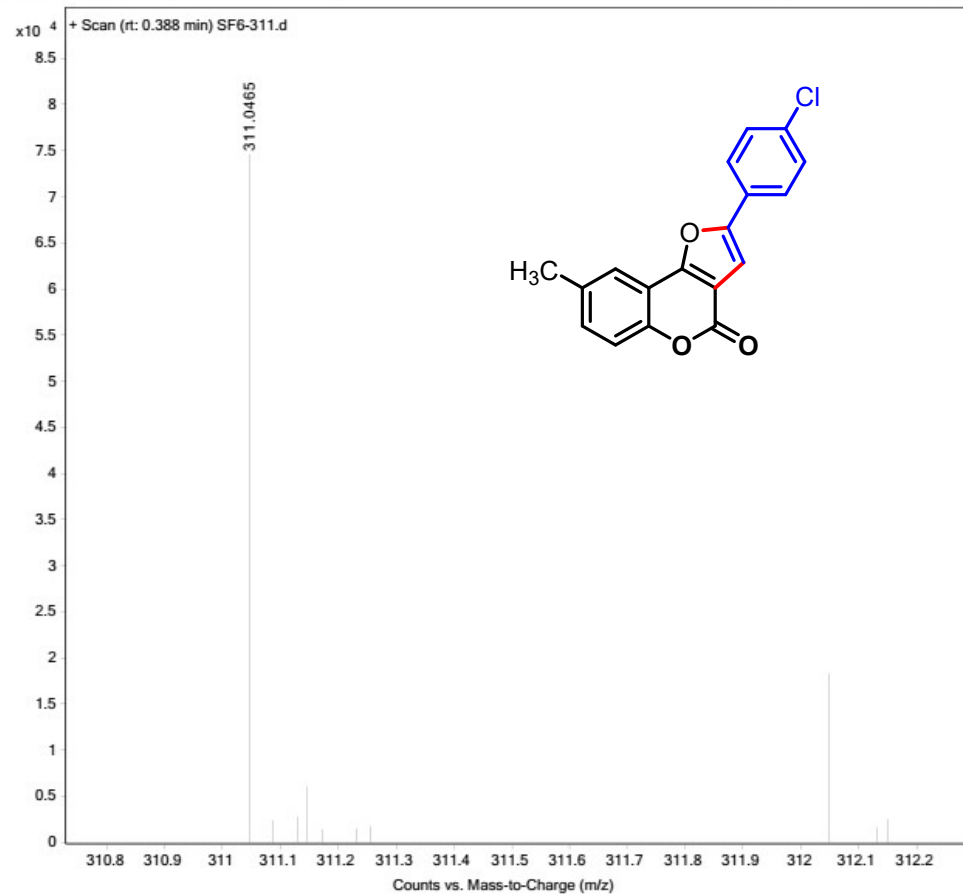
¹³C NMR Spectrum of 2-(4-Chlorophenyl)-8-methyl-4H-furo[3,2-c]chromen-4-one (3c)

SF-40H-CLST-U-13C.1.fid — 13C

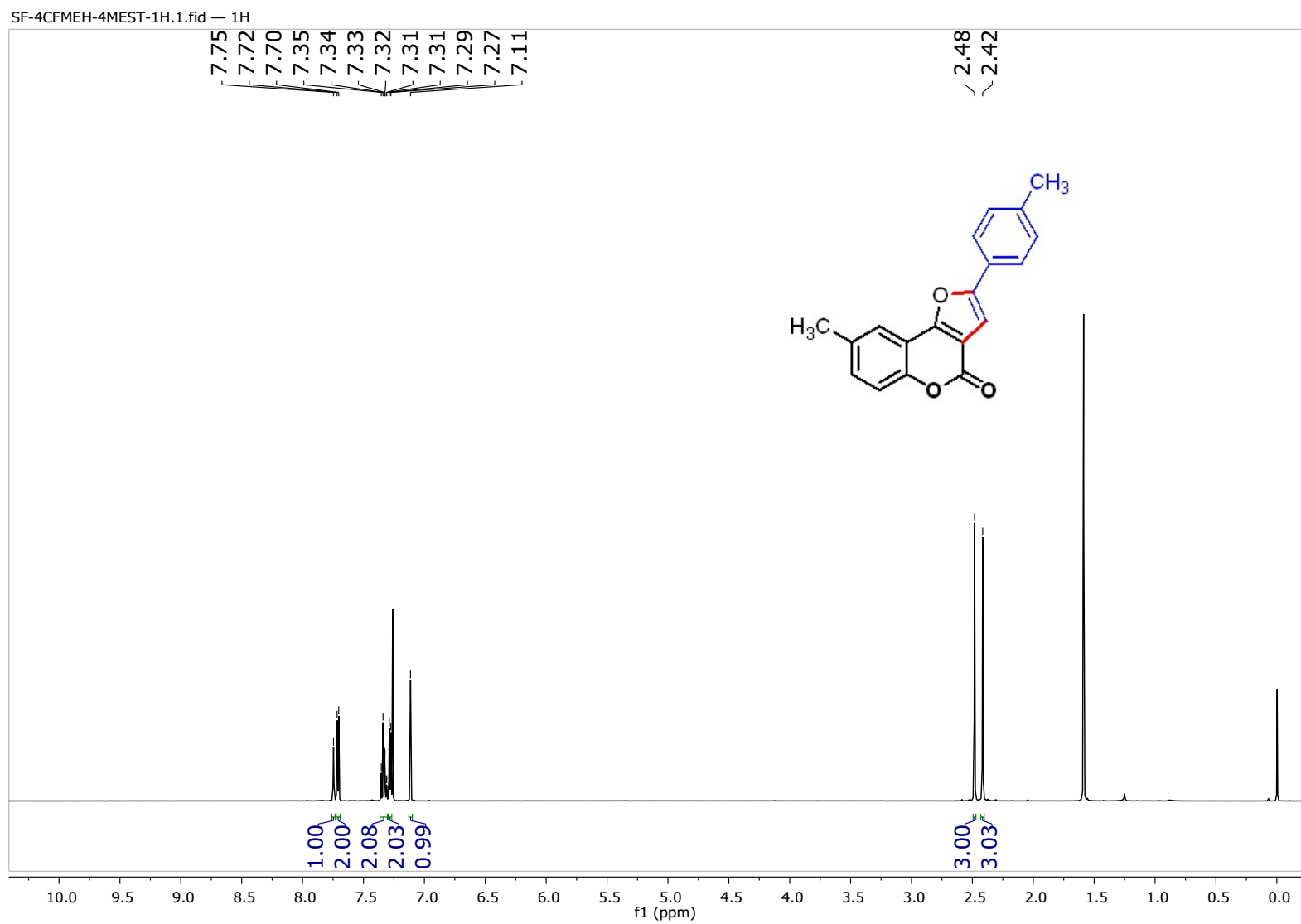


HRMS Spectrum of 2-(4-Chlorophenyl)-8-methyl-4H-furo[3,2-c]chromen-4-one (3c)

Sample Name		Position	P1-A10	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
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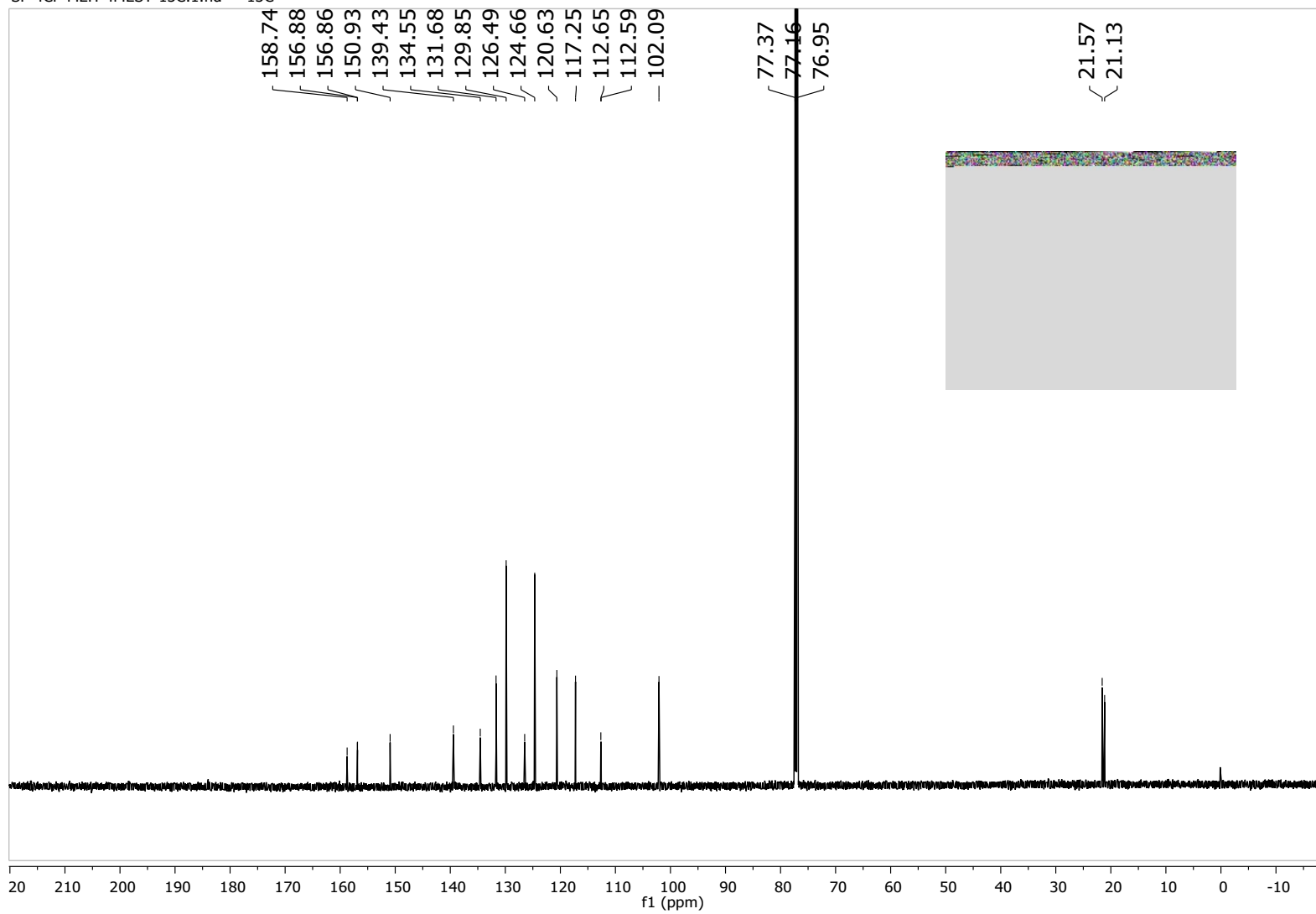


¹H NMR Spectrum of 8-Methyl-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one(3d)



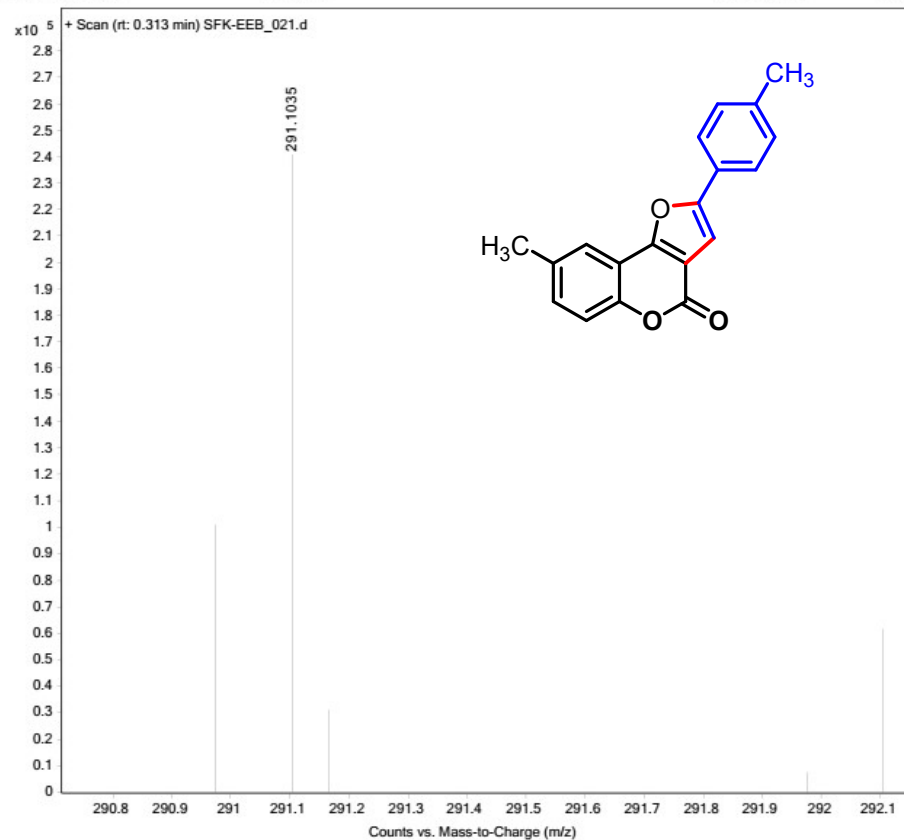
¹³C NMR Spectrum of 8-Methyl-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3d)

SF-4CF-MEH-4MEST-13C.1.fid — 13C

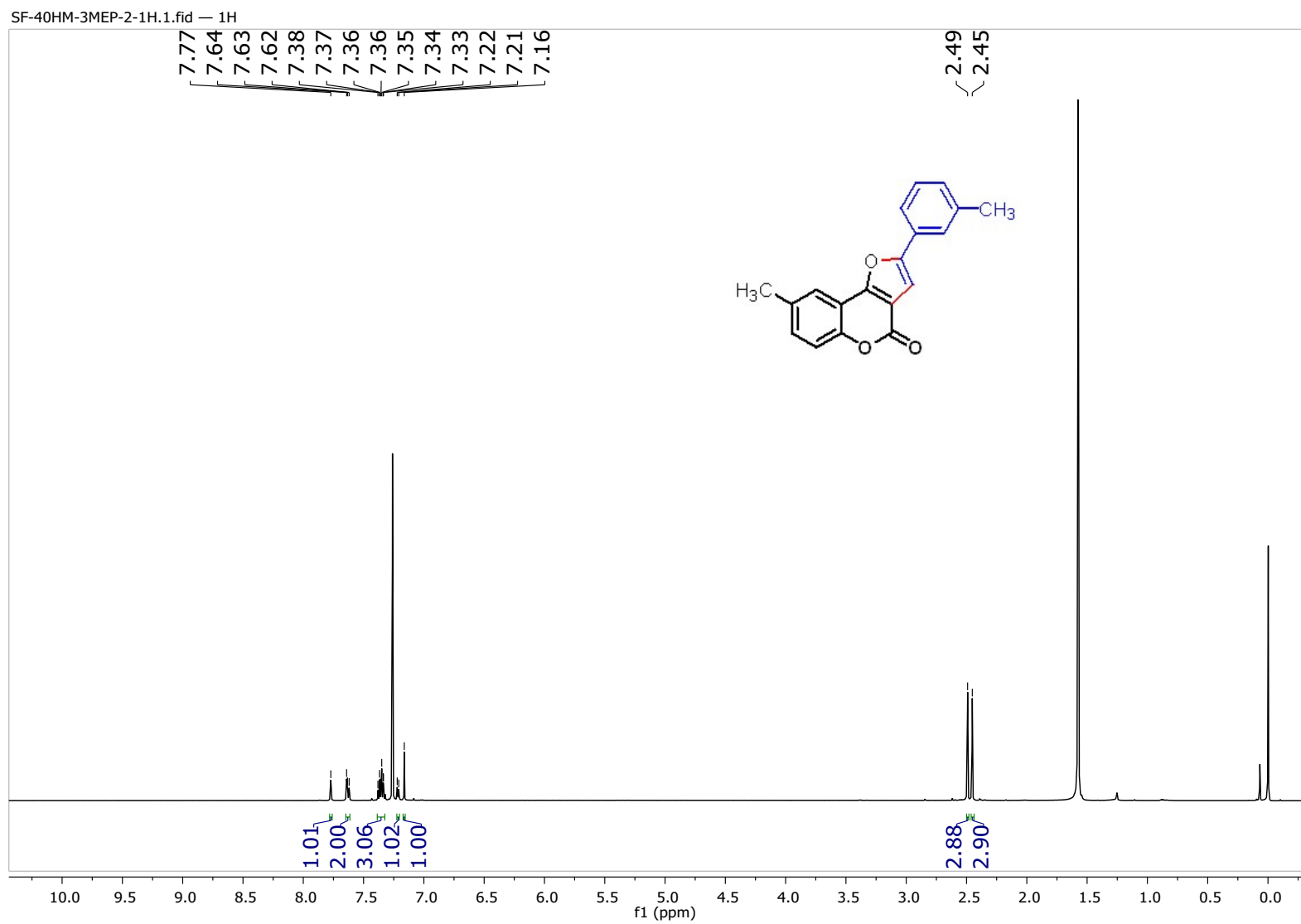


HRMS Spectrum of 8-Methyl-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3d)

Sample Name	SFK-EEB	Position	P2-D7	Instrument Name	Instrument 1
User Name		Inj Vol	10	InjPosition	
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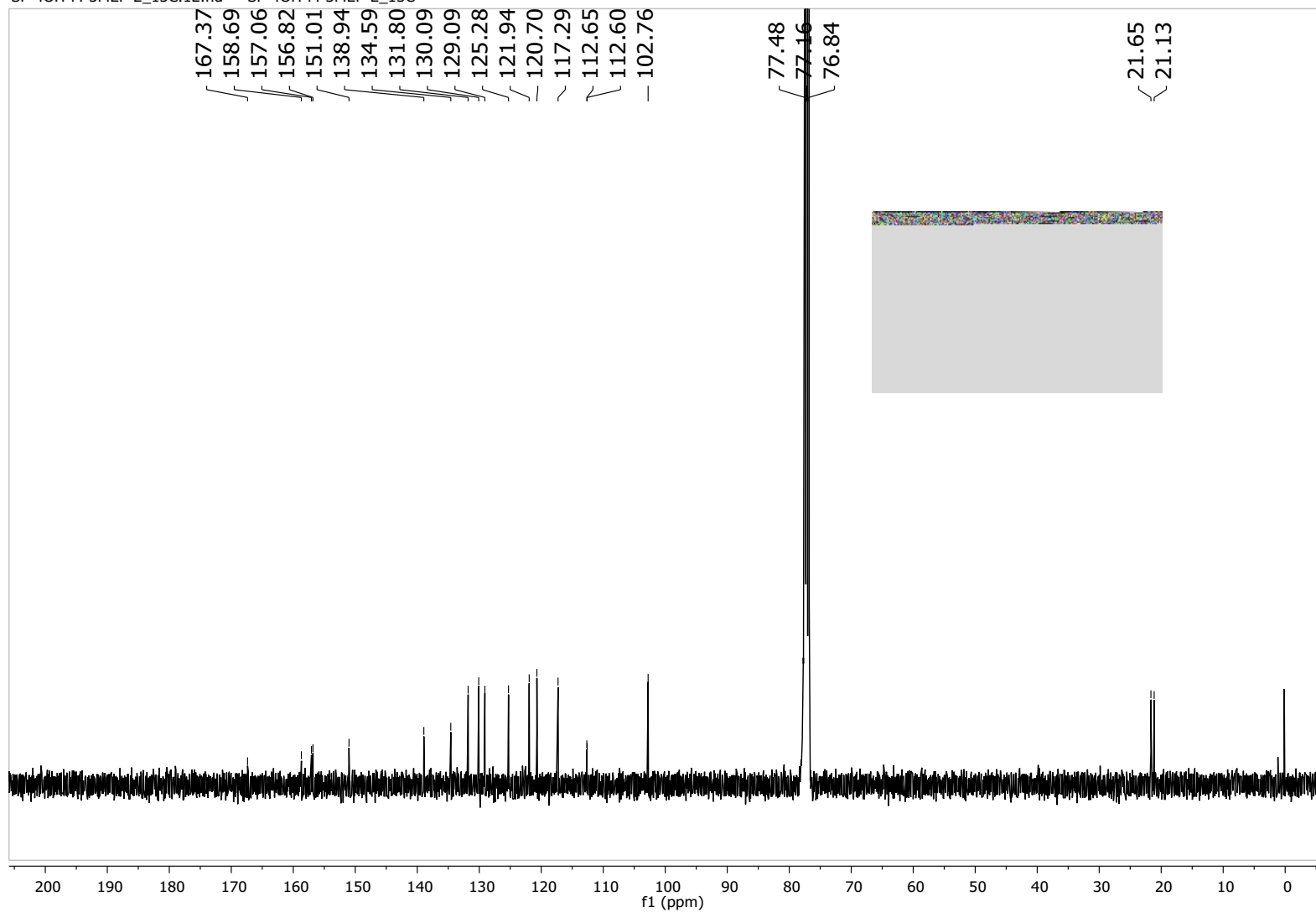


¹H NMR Spectrum of 8-Methyl-2-(*m*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3e)



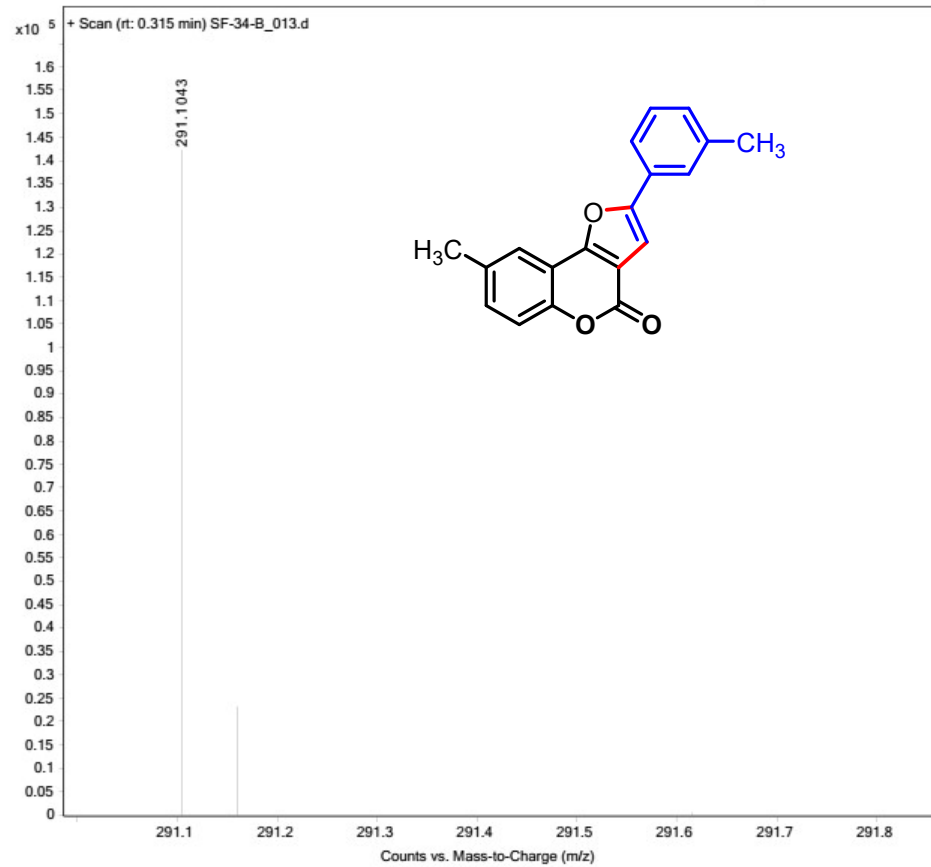
¹³C NMR Spectrum of 8-Methyl-2-(*m*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3e)

SF-4OH-M-3MEP-2_13C.12.fid — SF-4OH-M-3MEP-2_13C

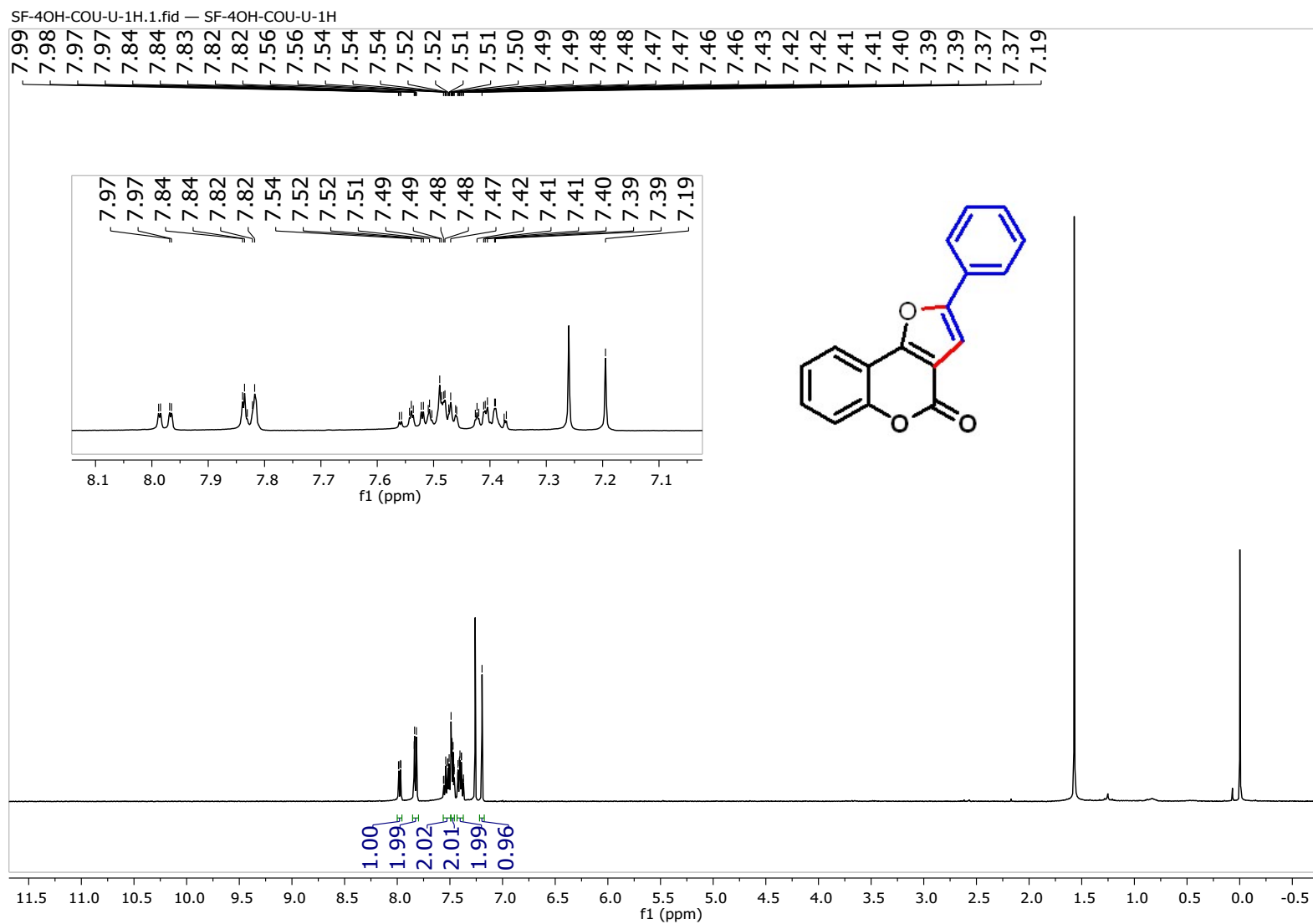


HRMS Spectrum of 8-Methyl-2-(*m*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3e)

Sample Name	SF-34-B	Position	P2-D1	Instrument Name	Instrument 1
User Name		Inj Vol	10	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF-34-B_013.d
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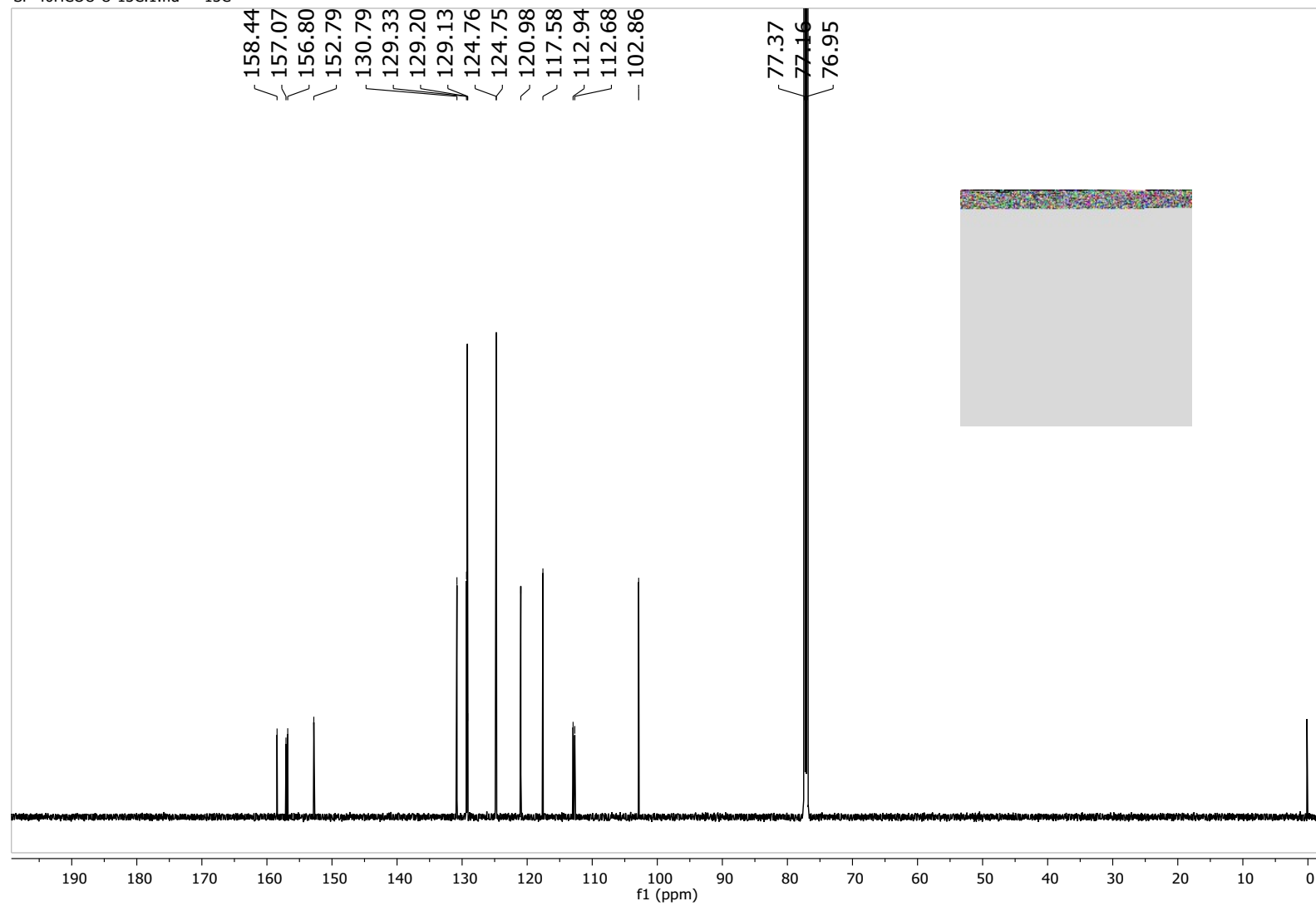


¹H NMR Spectrum of 2-Phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3f)



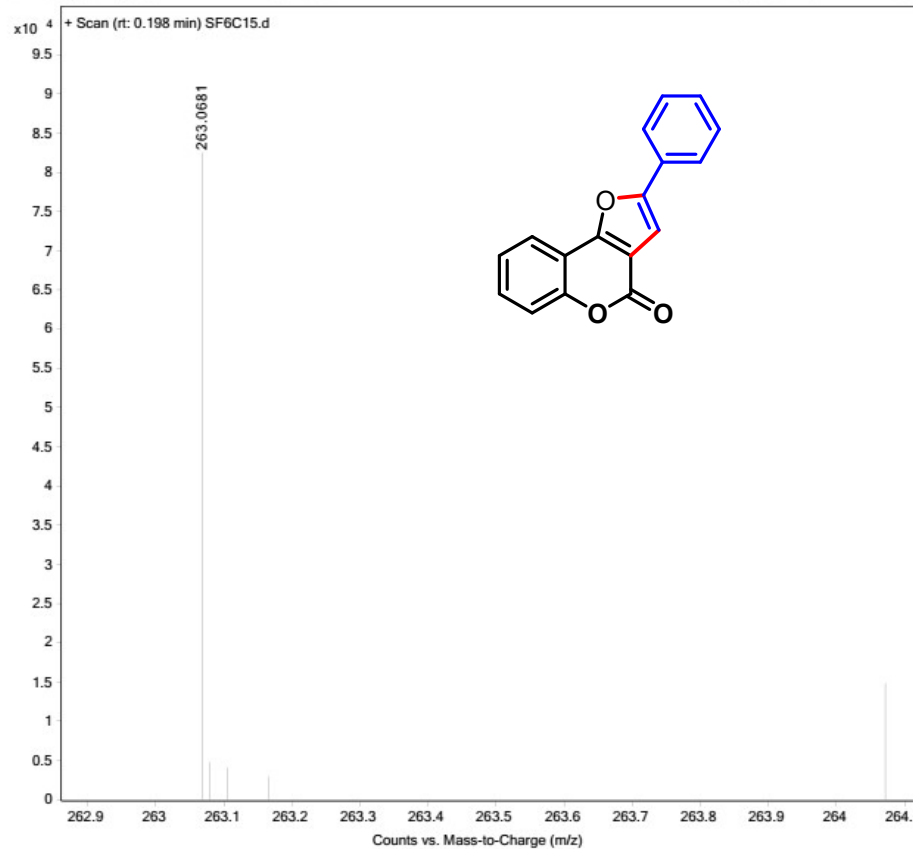
¹³C NMR Spectrum of 2-Phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3f)

SF-40HCOU-U-13C.1.fid — 13C

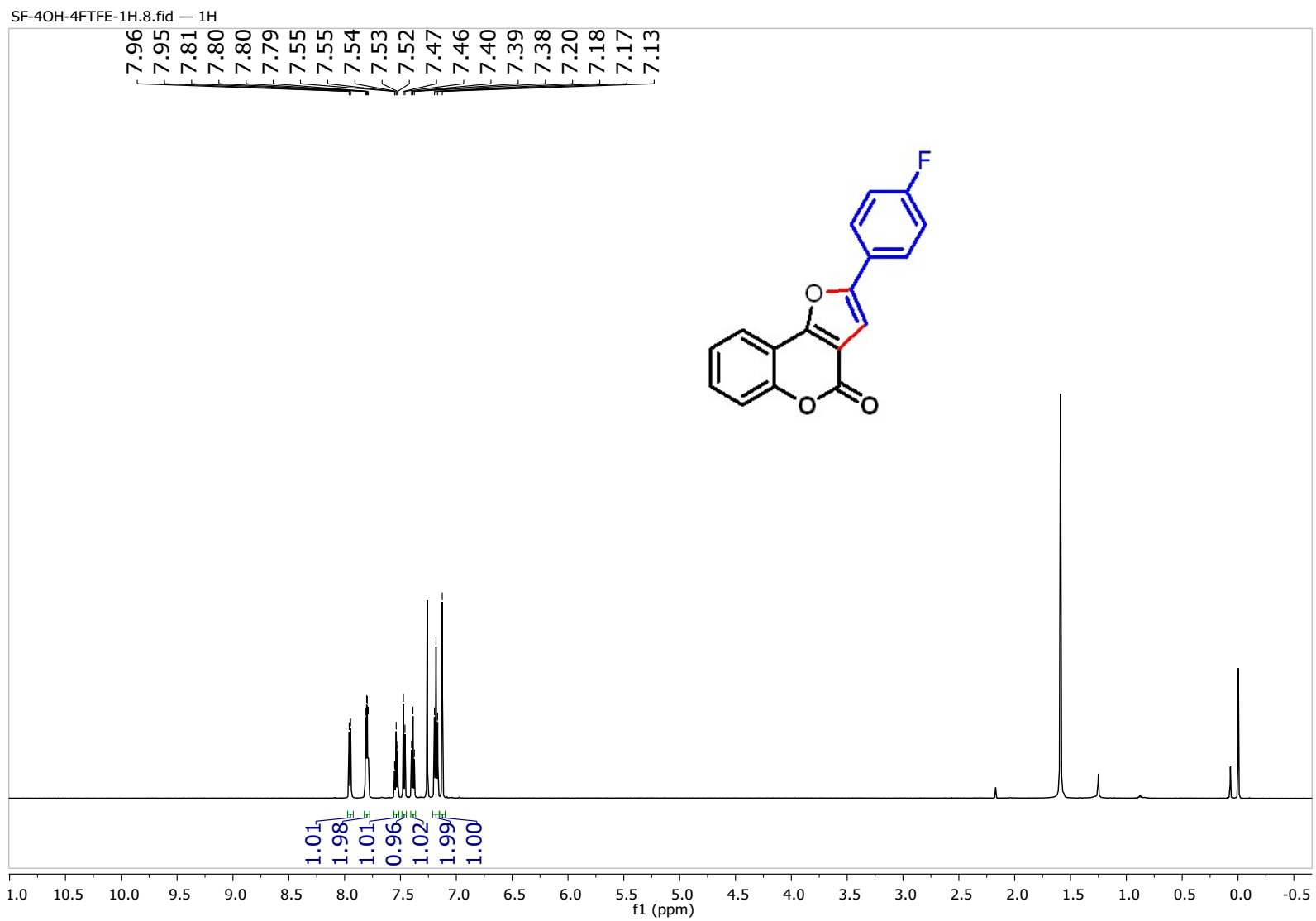


HRMS Spectrum of 2-Phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3f)

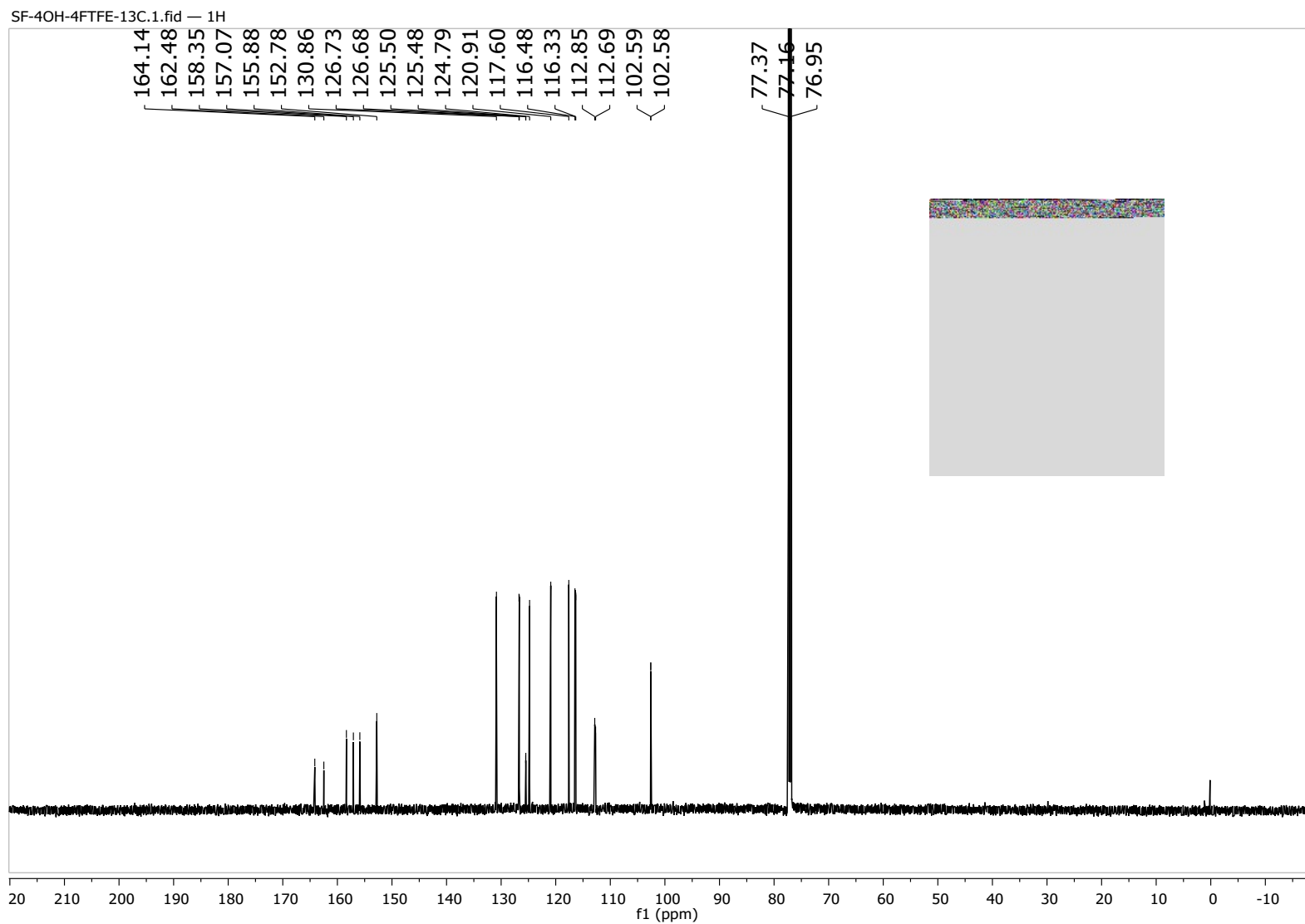
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¹H NMR Spectrum of 2-(4-Fluorophenyl)-4H-furo[3,2-c]chromen-4-one (3g)

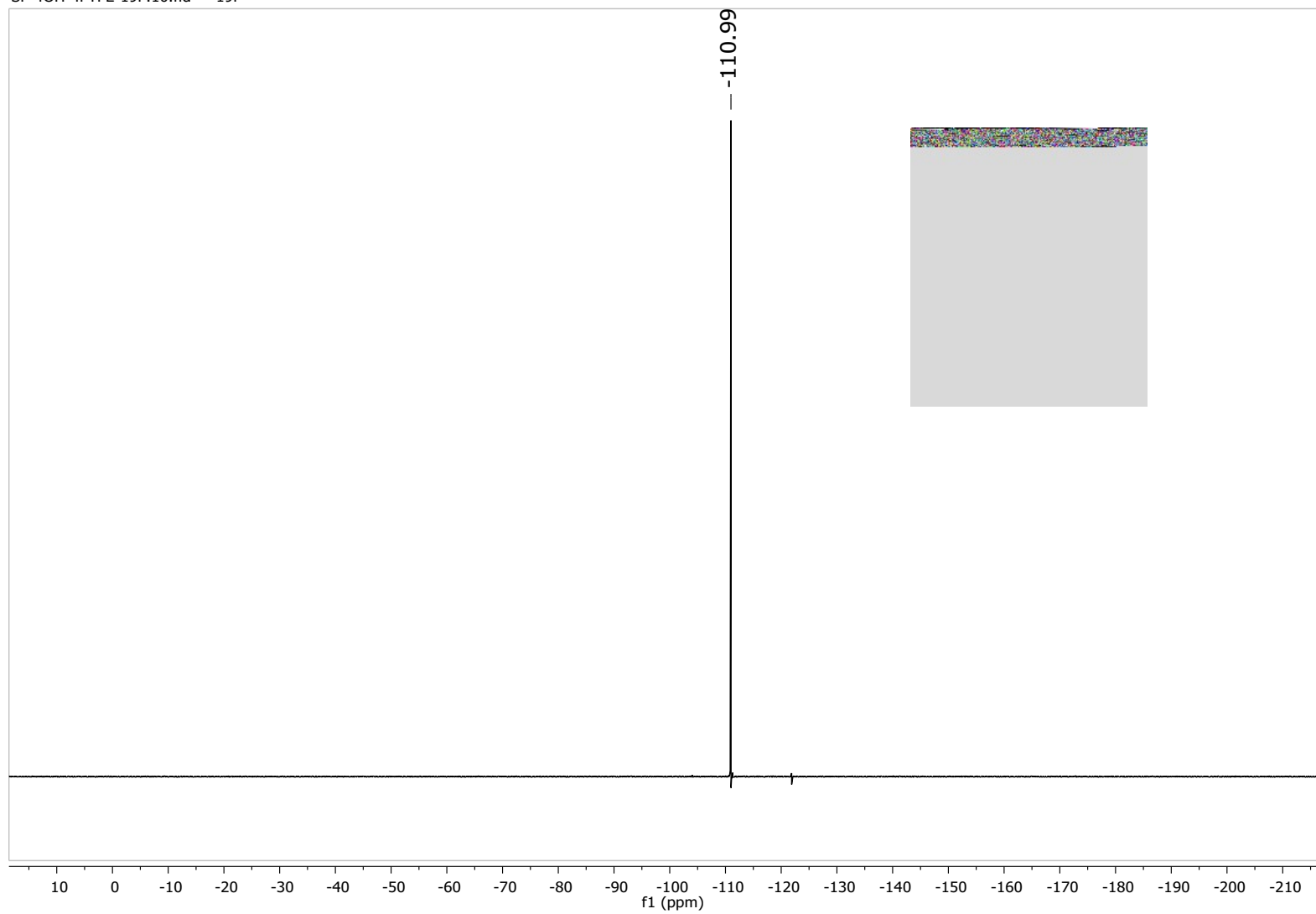


¹³C NMR Spectrum of 2-(4-Fluorophenyl)-4H-furo[3,2-c]chromen-4-one (3g)



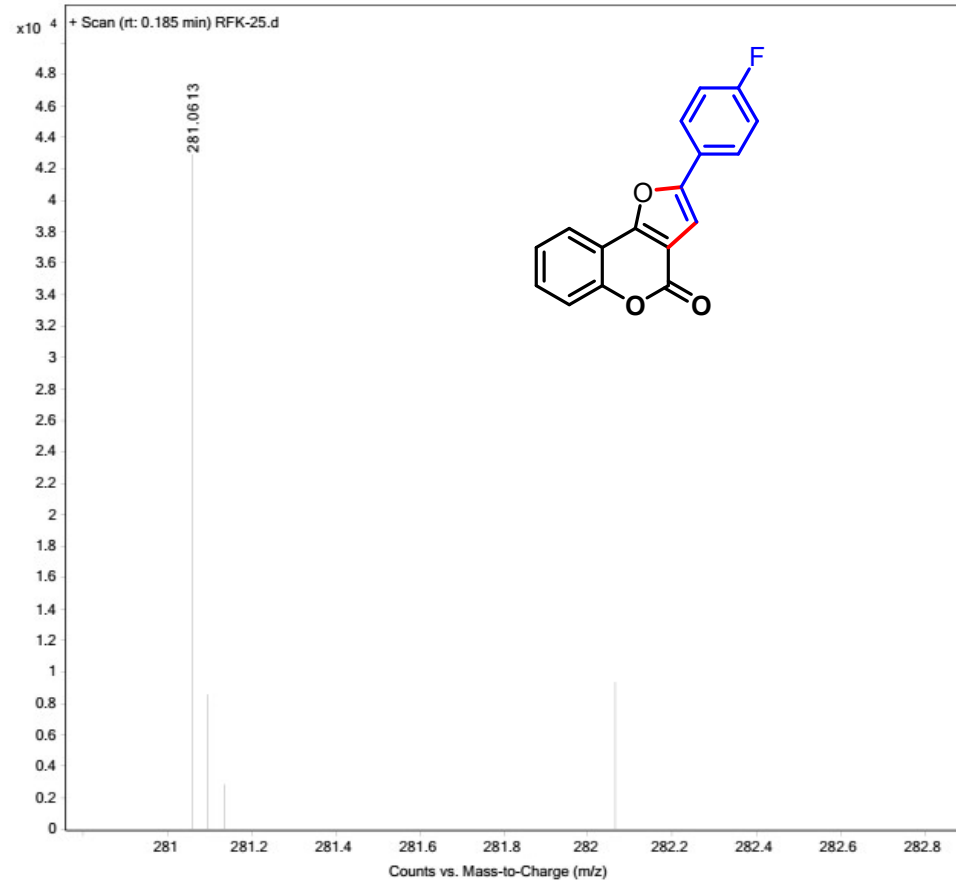
¹⁹F NMR Spectrum of 2-(4-Fluorophenyl)-4H-furo[3,2-c]chromen-4-one (3g)

SF-4OH-4FTFE-19F.10.fid — 19F



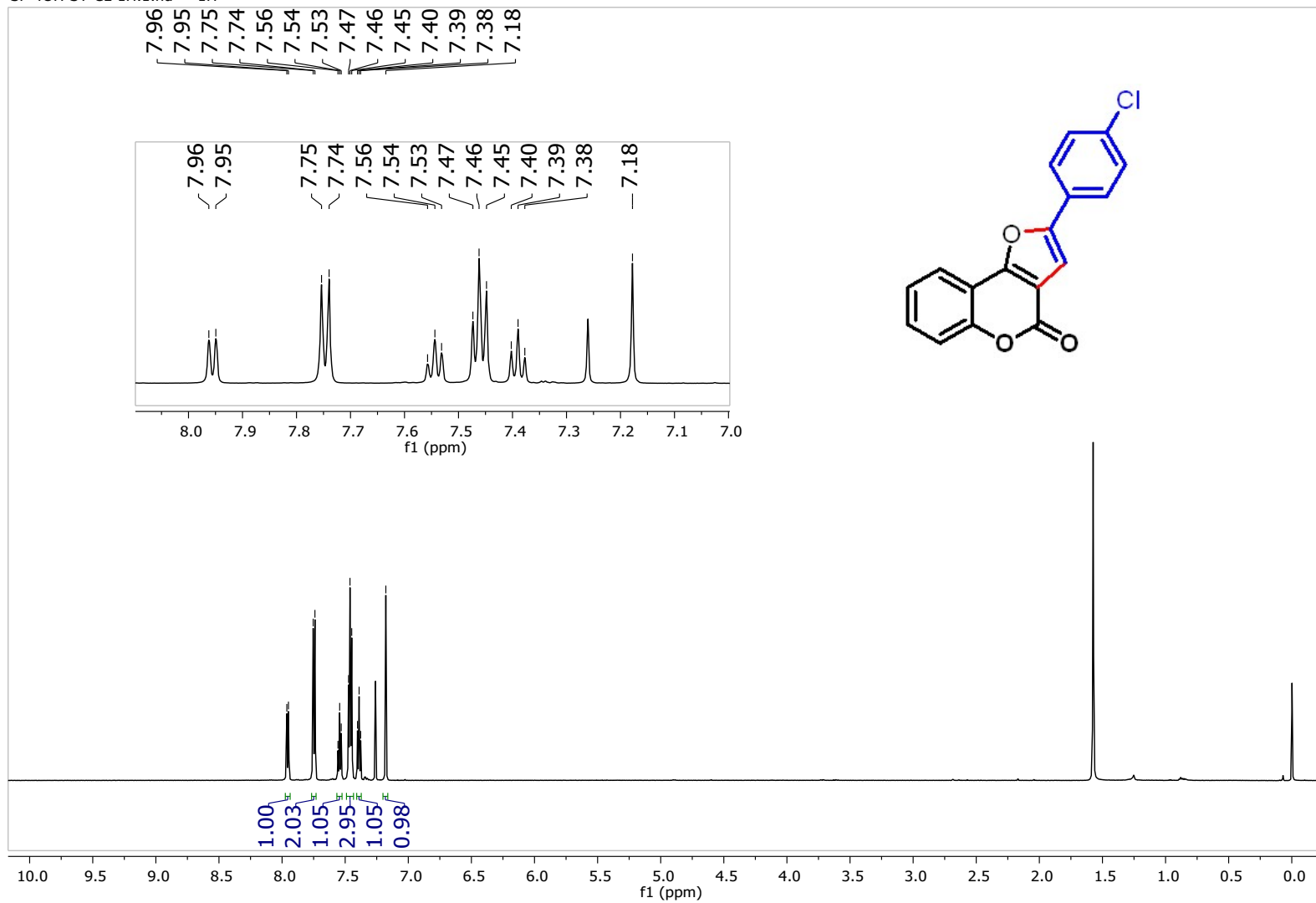
HRMS Spectrum of 2-(4-Fluorophenyl)-4*H*-furo[3,2-*c*]chromen-4-one (3g)

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User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
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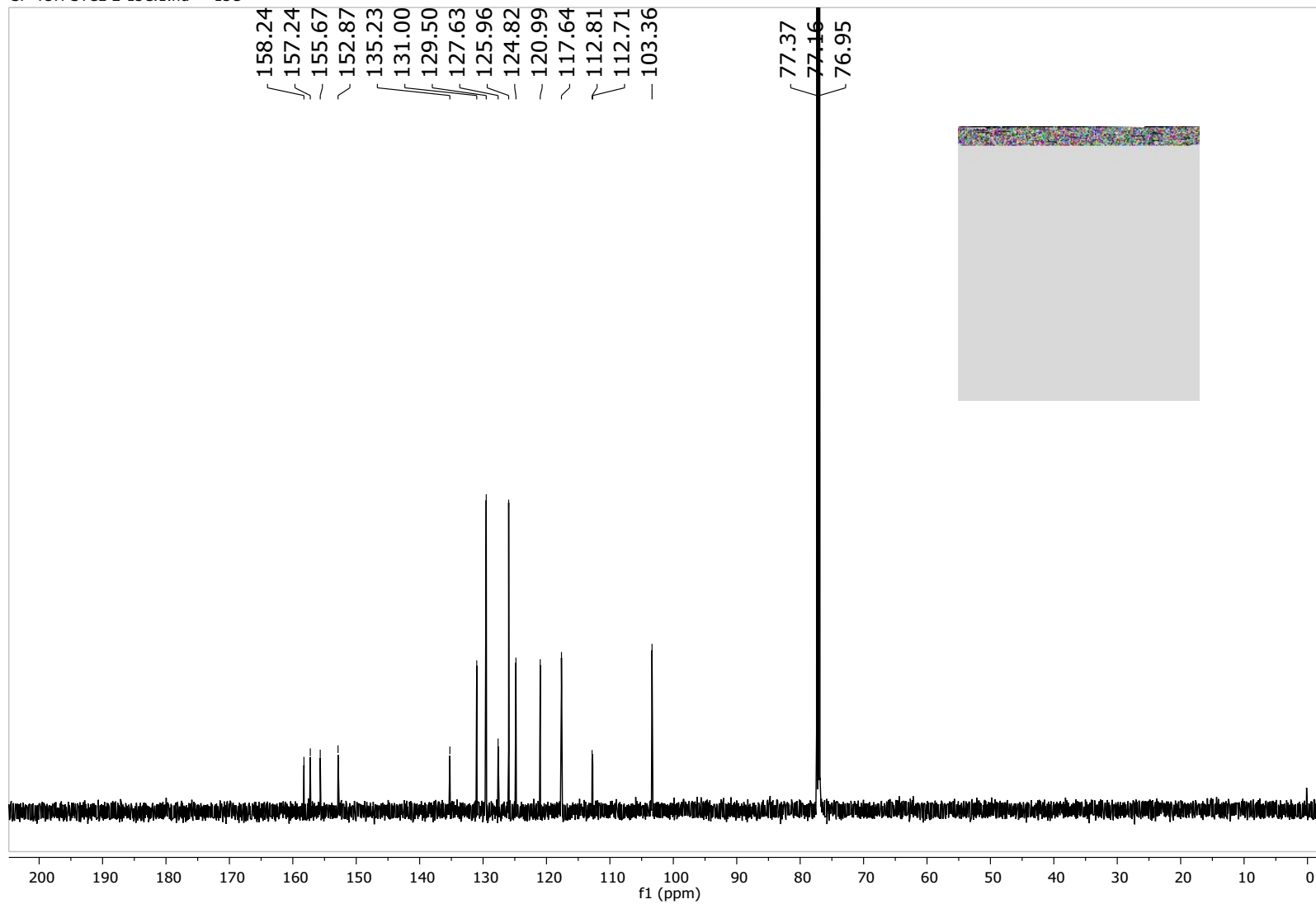
¹H NMR Spectrum of 2-(4-Chlorophenyl)-4H-furo[3,2-c]chromen-4-one (3h)

SF-4OH-ST-CL-1H.1.fid - 1H



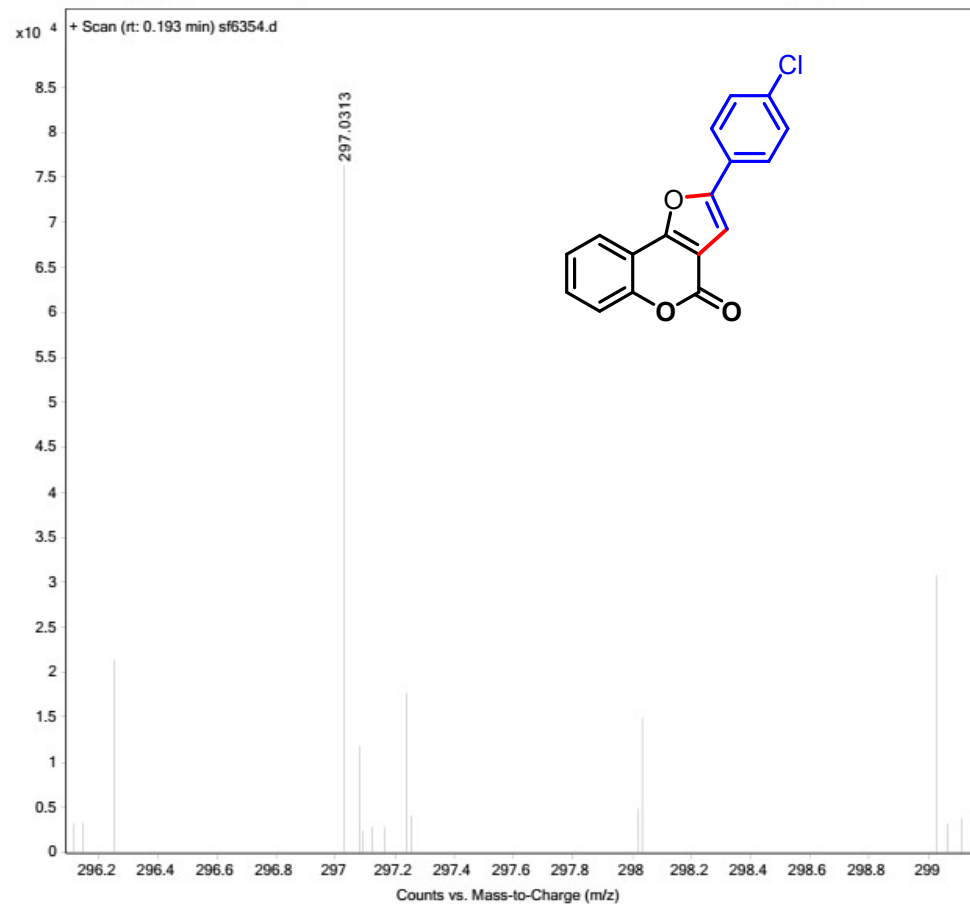
¹³C NMR Spectrum of 2-(4-Chlorophenyl)-4H-furo[3,2-c]chromen-4-one (3h)

SF-4OH-STCL-2-13C.1.fid — 13C

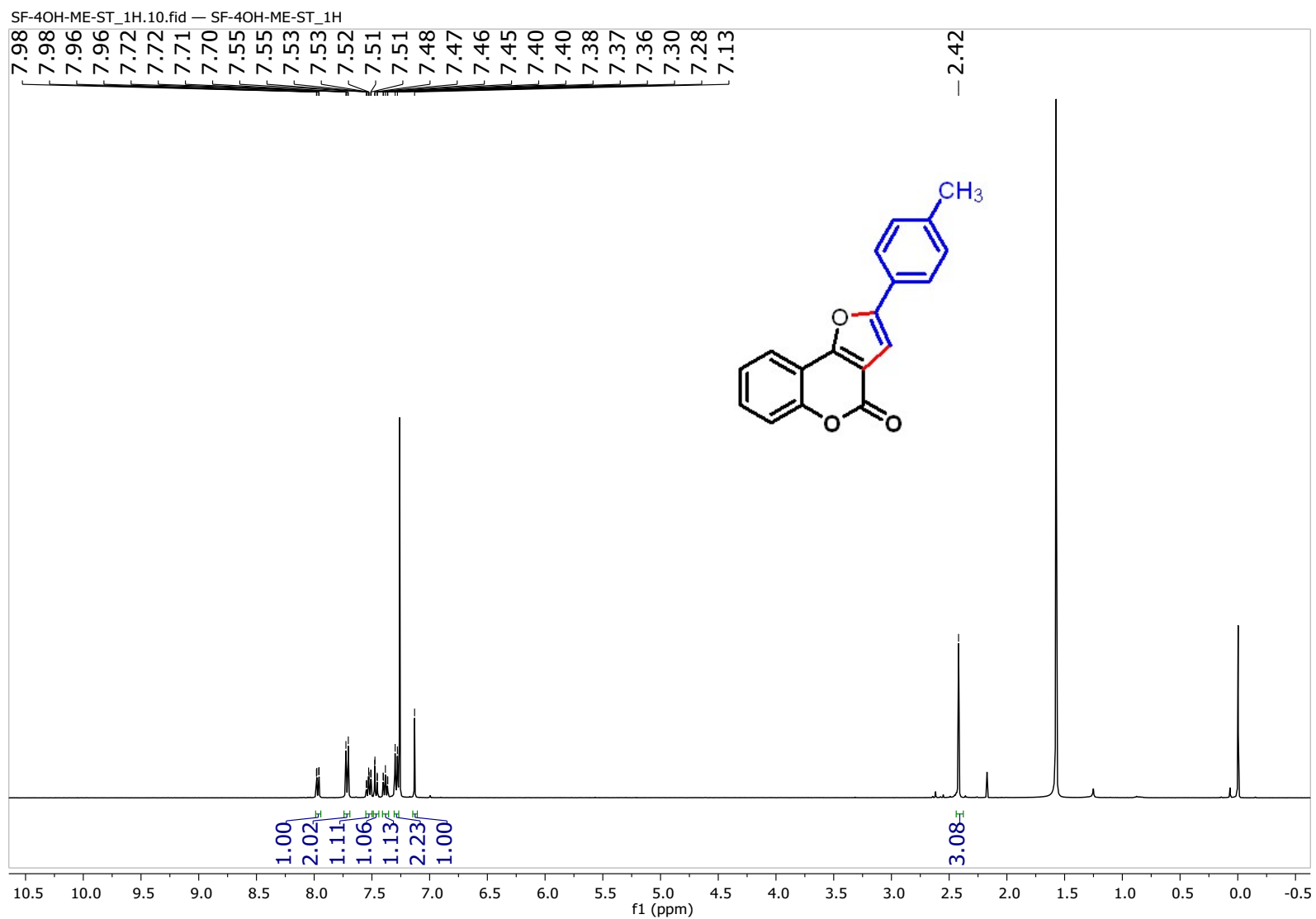


HRMS Spectrum of 2-(4-Chlorophenyl)-4*H*-furo[3,2-*c*]chromen-4-one (3h)

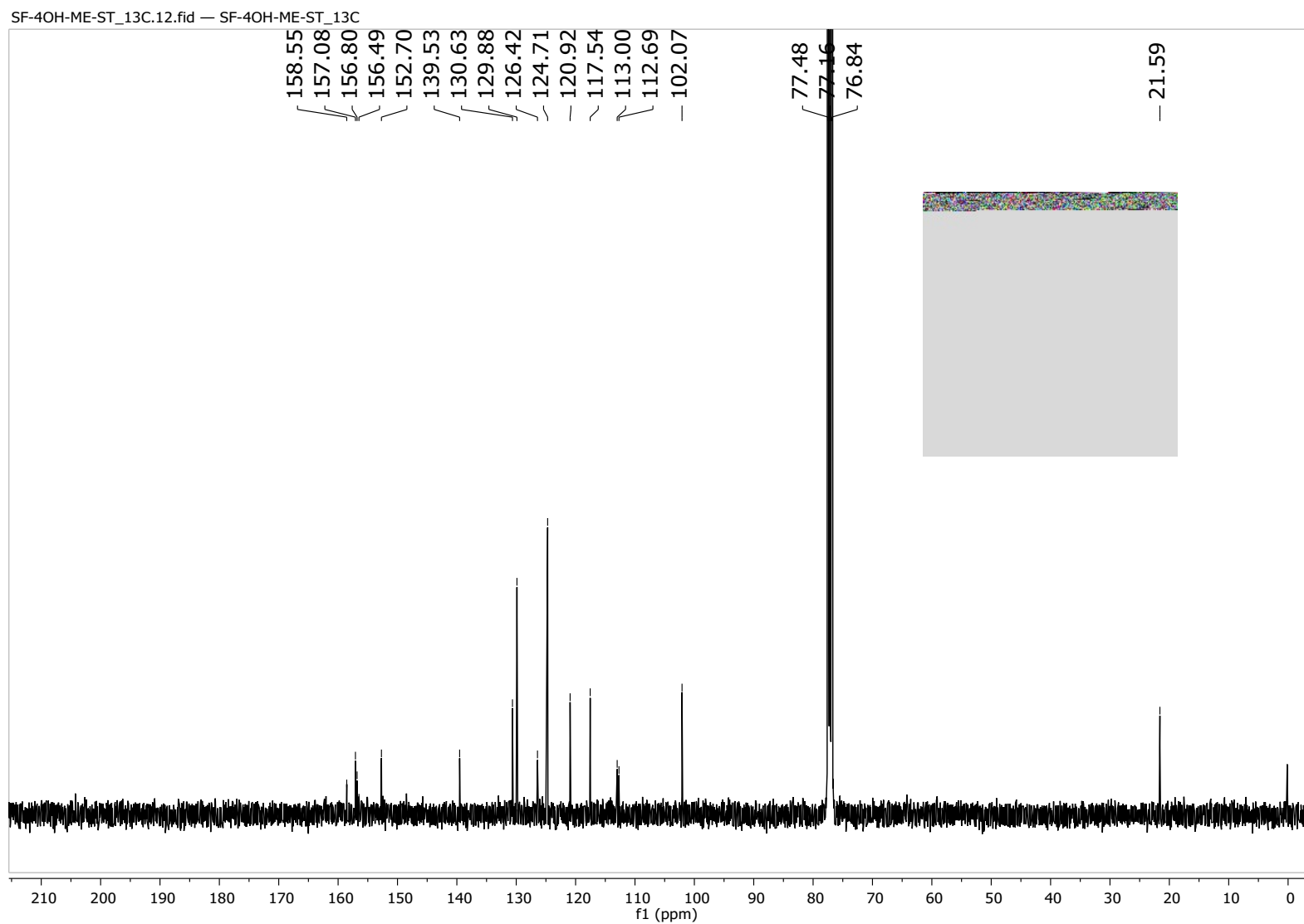
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¹H NMR Spectrum of 2-(*p*-Tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3i)

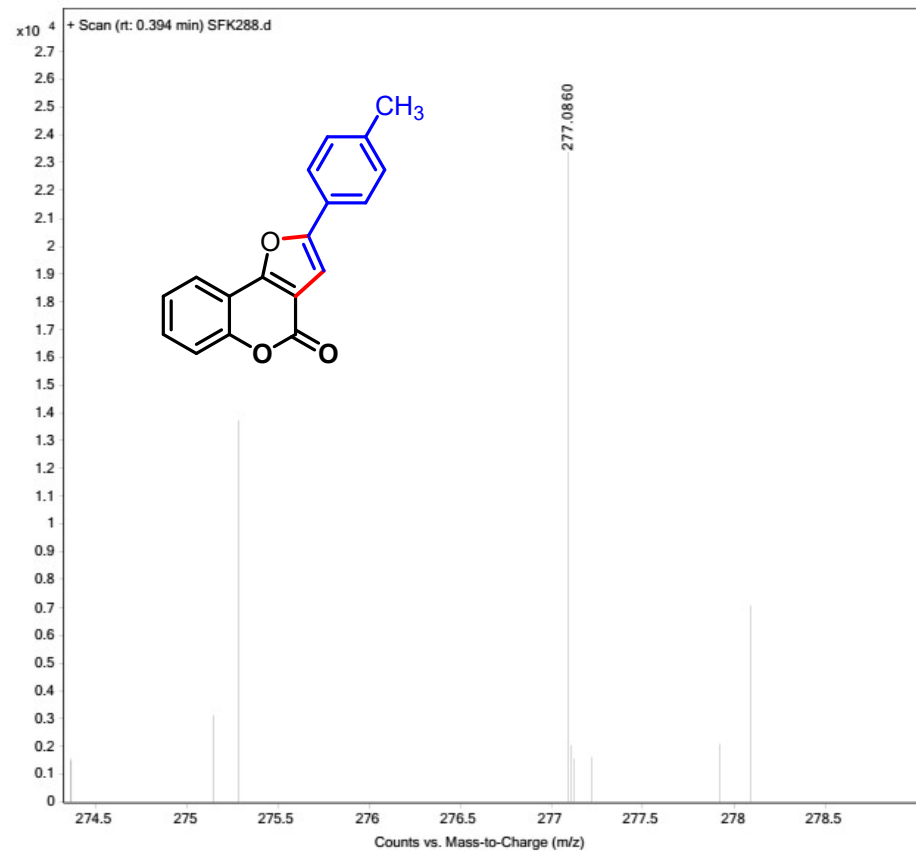


¹³C NMR Spectrum of 2-(*p*-Tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3i)

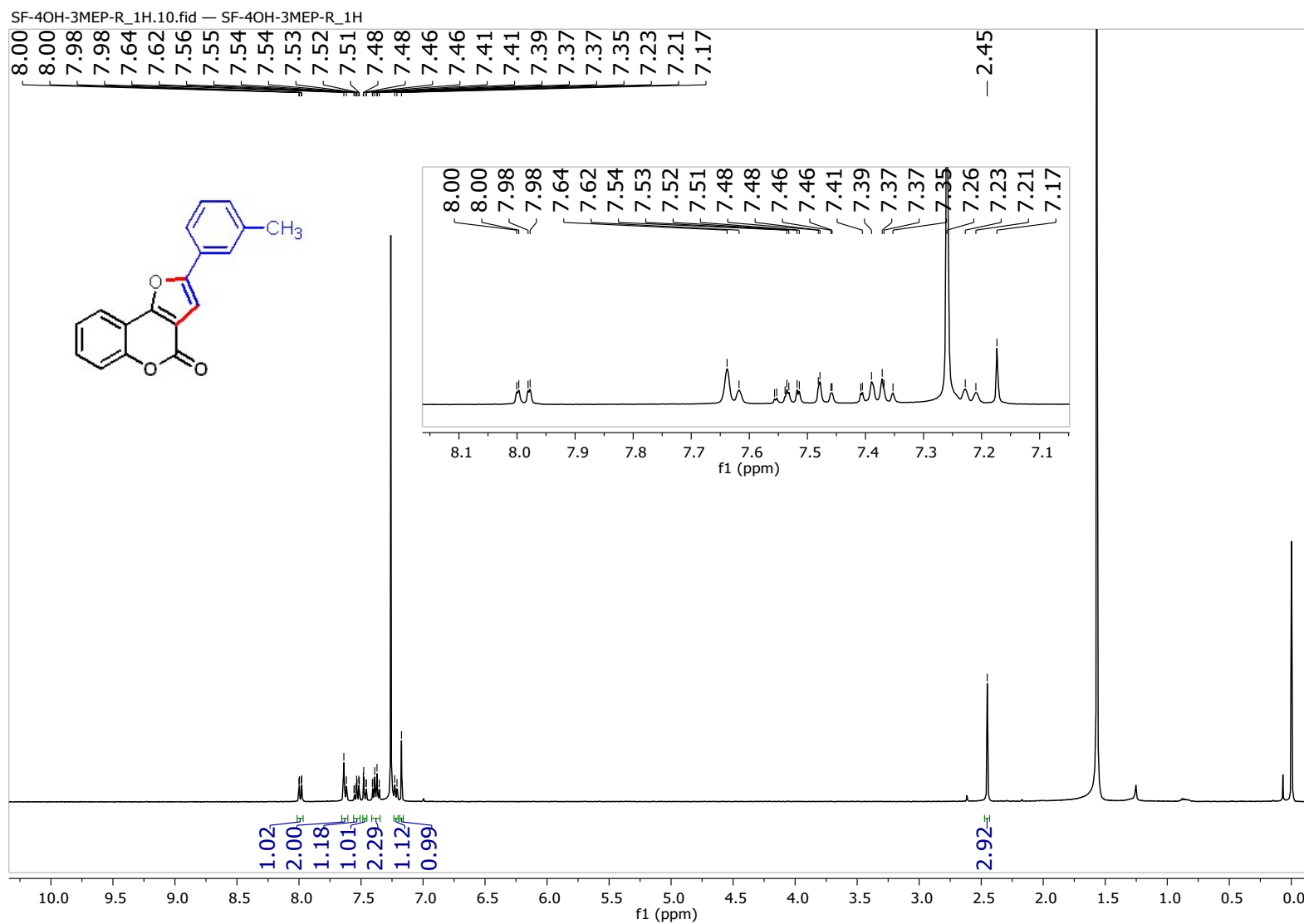


HRMS Spectrum of 2-(*p*-Tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3i)

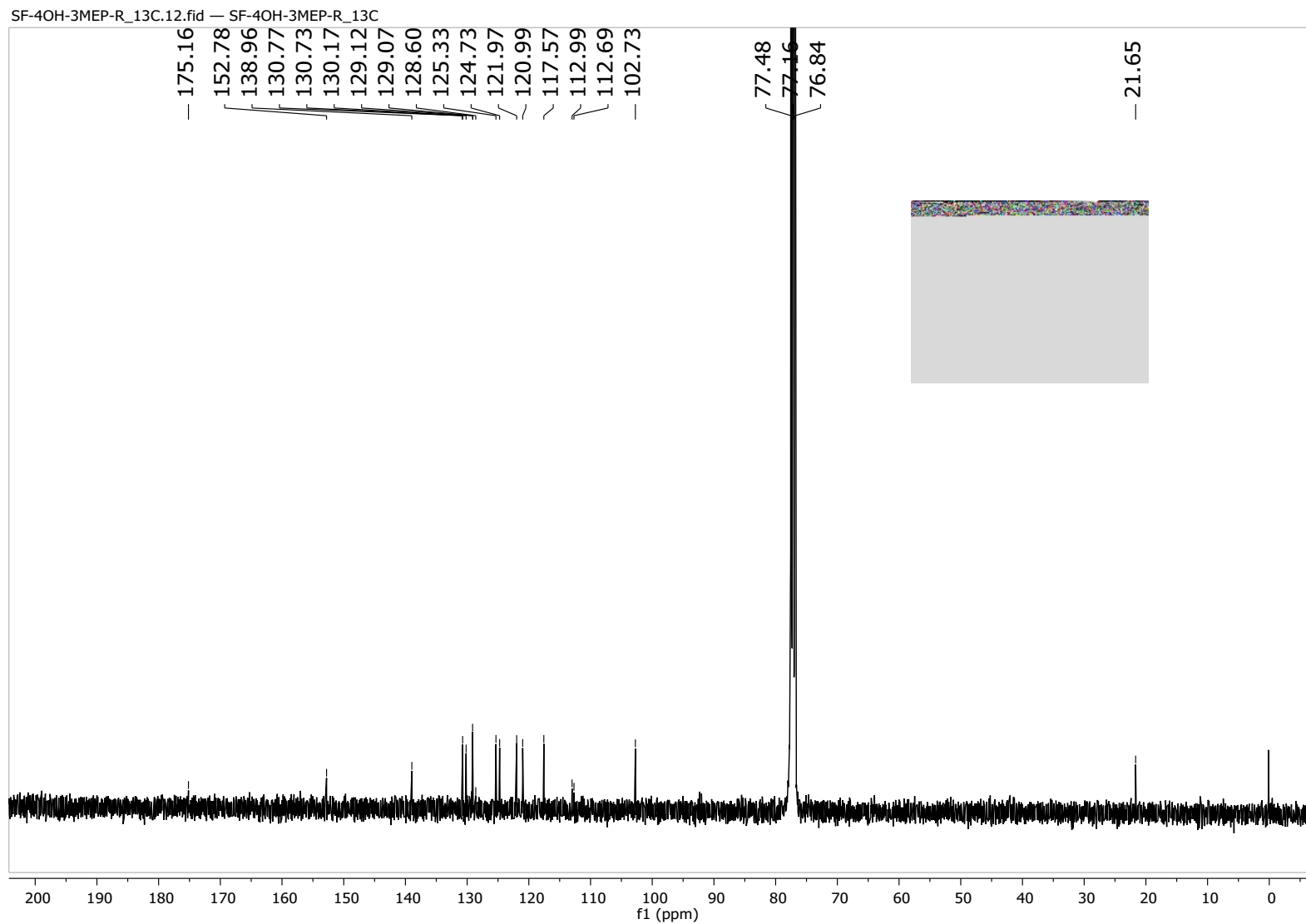
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¹H NMR Spectrum of 2-(*m*-Tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3j)

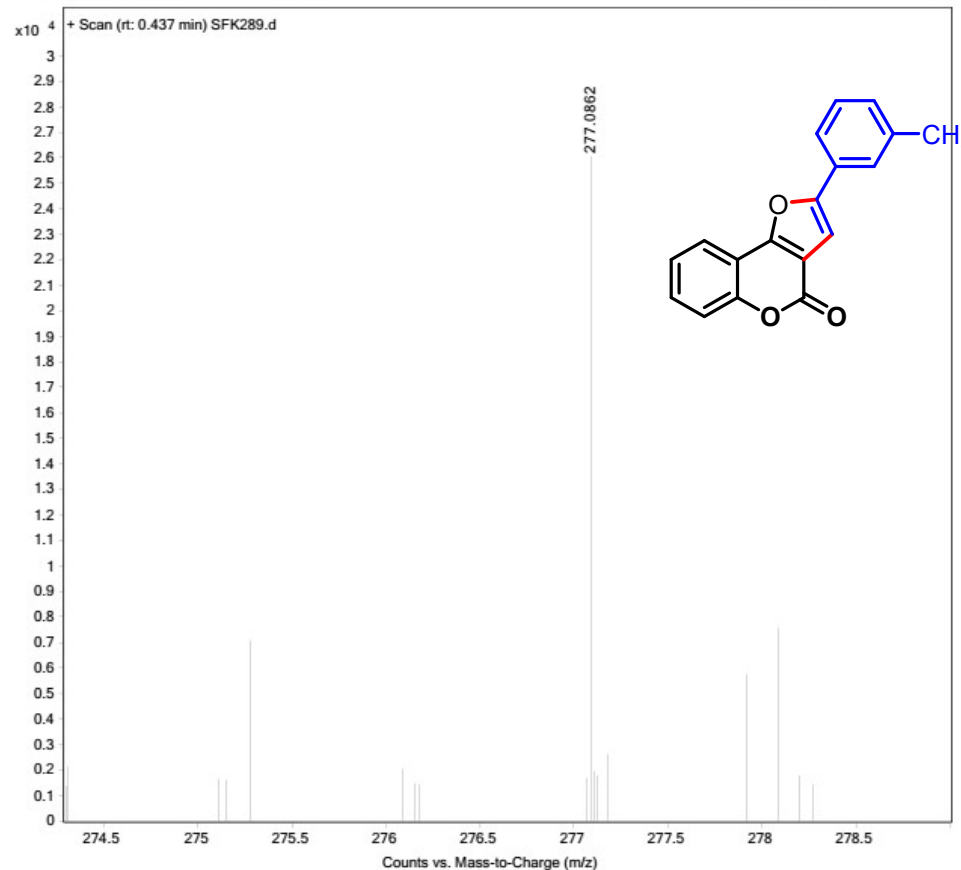


¹³C NMR Spectrum of 2-(*m*-Tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3j)

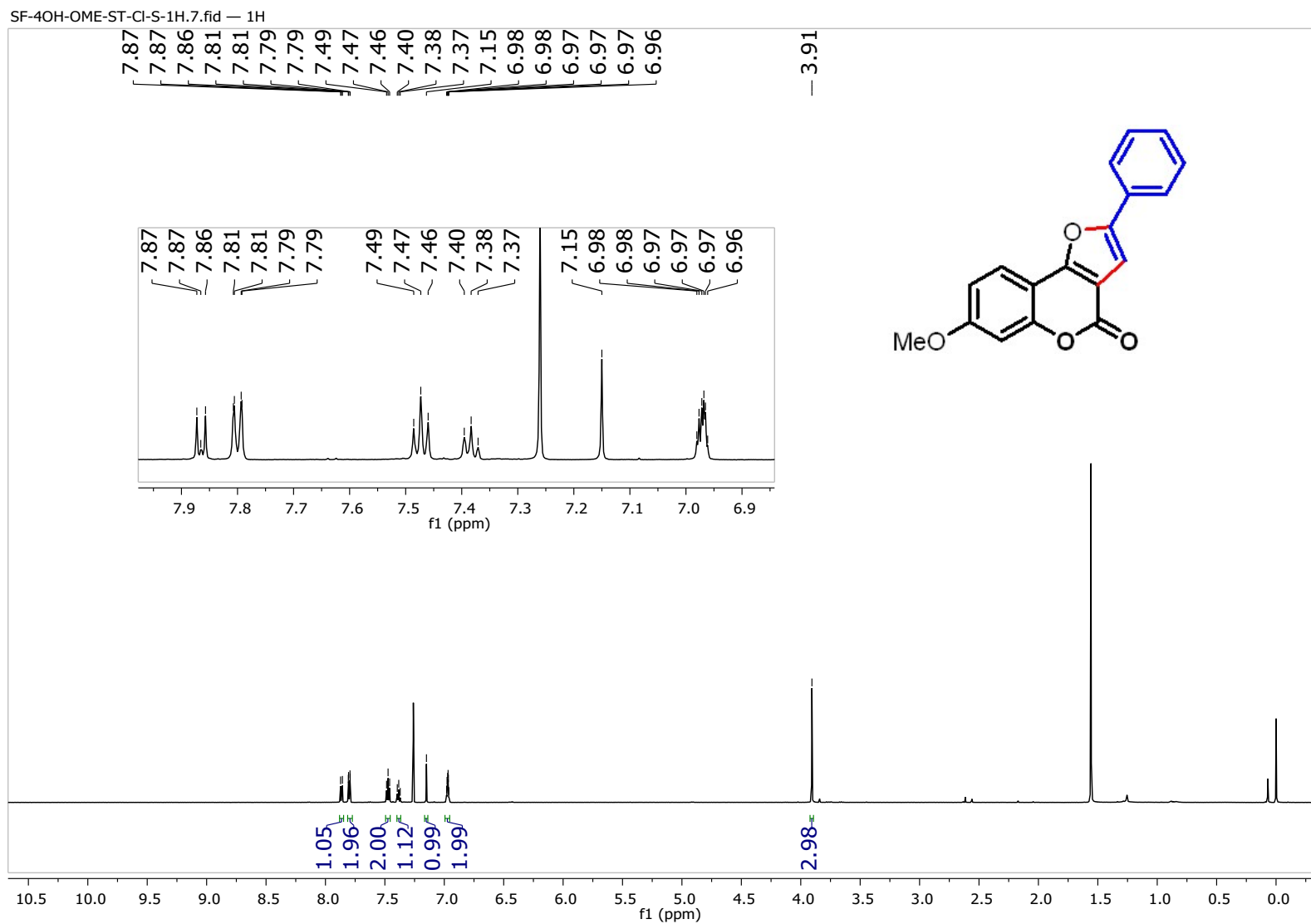


HRMS NMR Spectrum of 2-(*m*-Tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3j)

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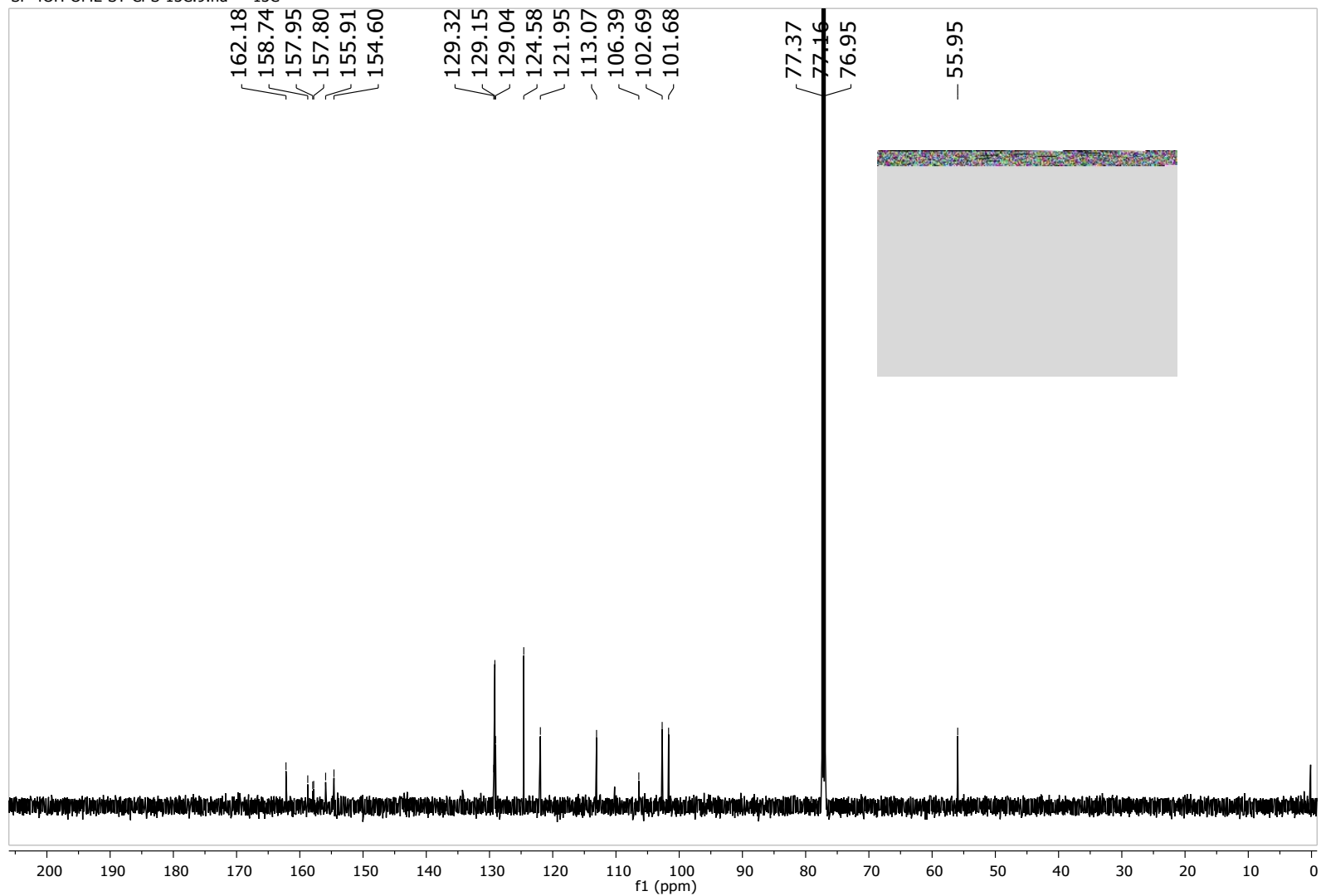


¹H NMR Spectrum of 7-Methoxy-2-phenyl-4H-furo[3,2-c]chromen-4-one (3k)



¹³C NMR Spectrum of 7-Methoxy-2-phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3k)

SF-4OH-OME-ST-CI-S-13C.9.fid | 13C



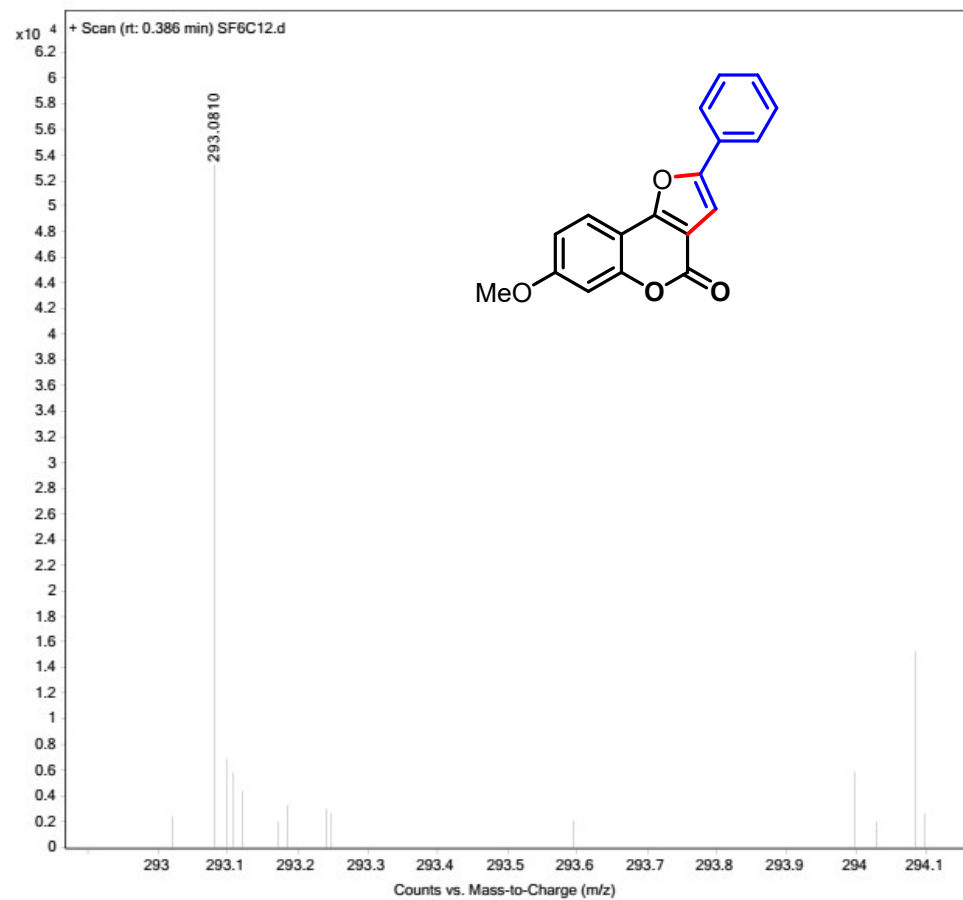
HRMS Spectrum of 7-Methoxy-2-phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3k)

Sample Name
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Sample Type
ACQ Method

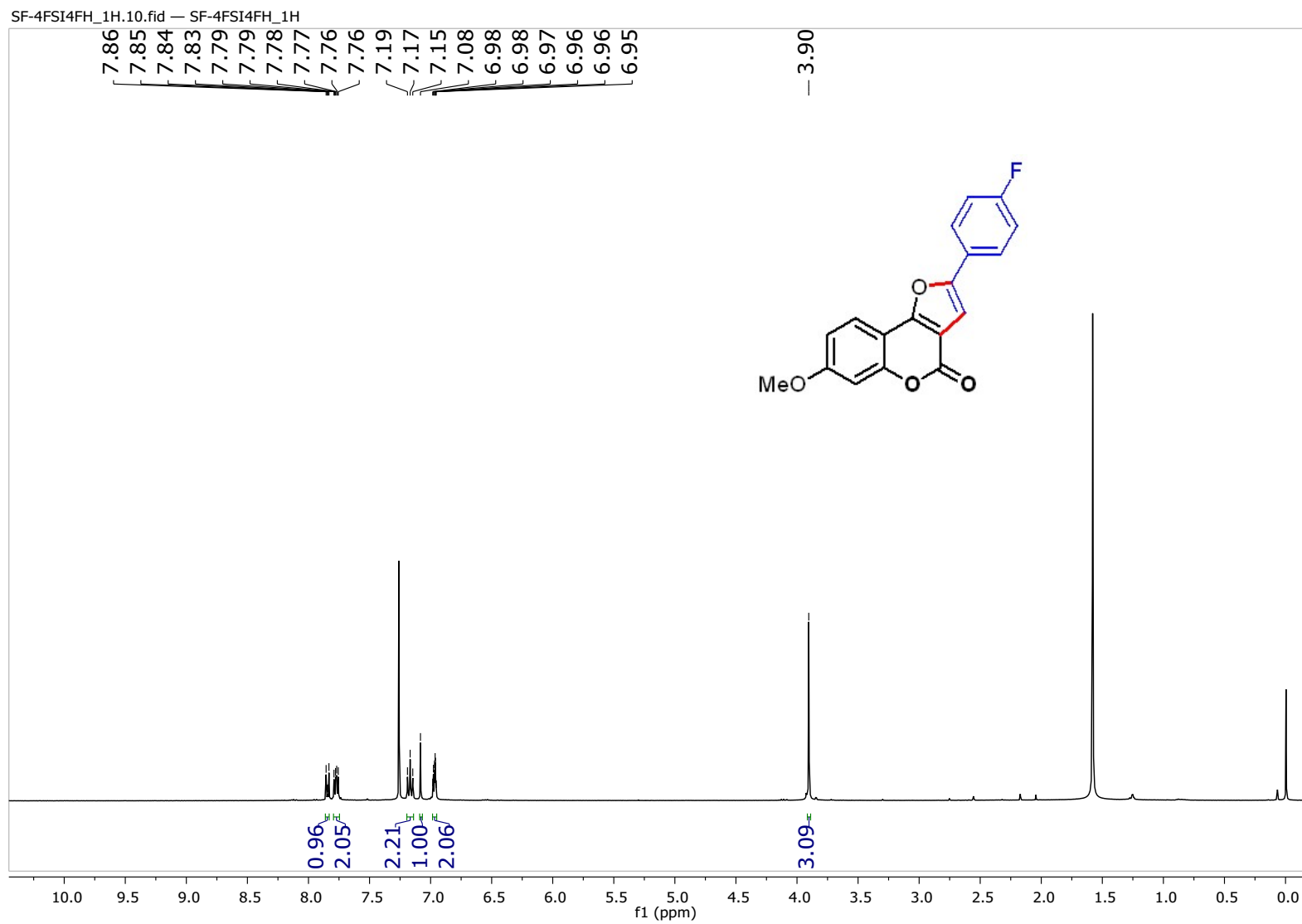
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Position P1-A4
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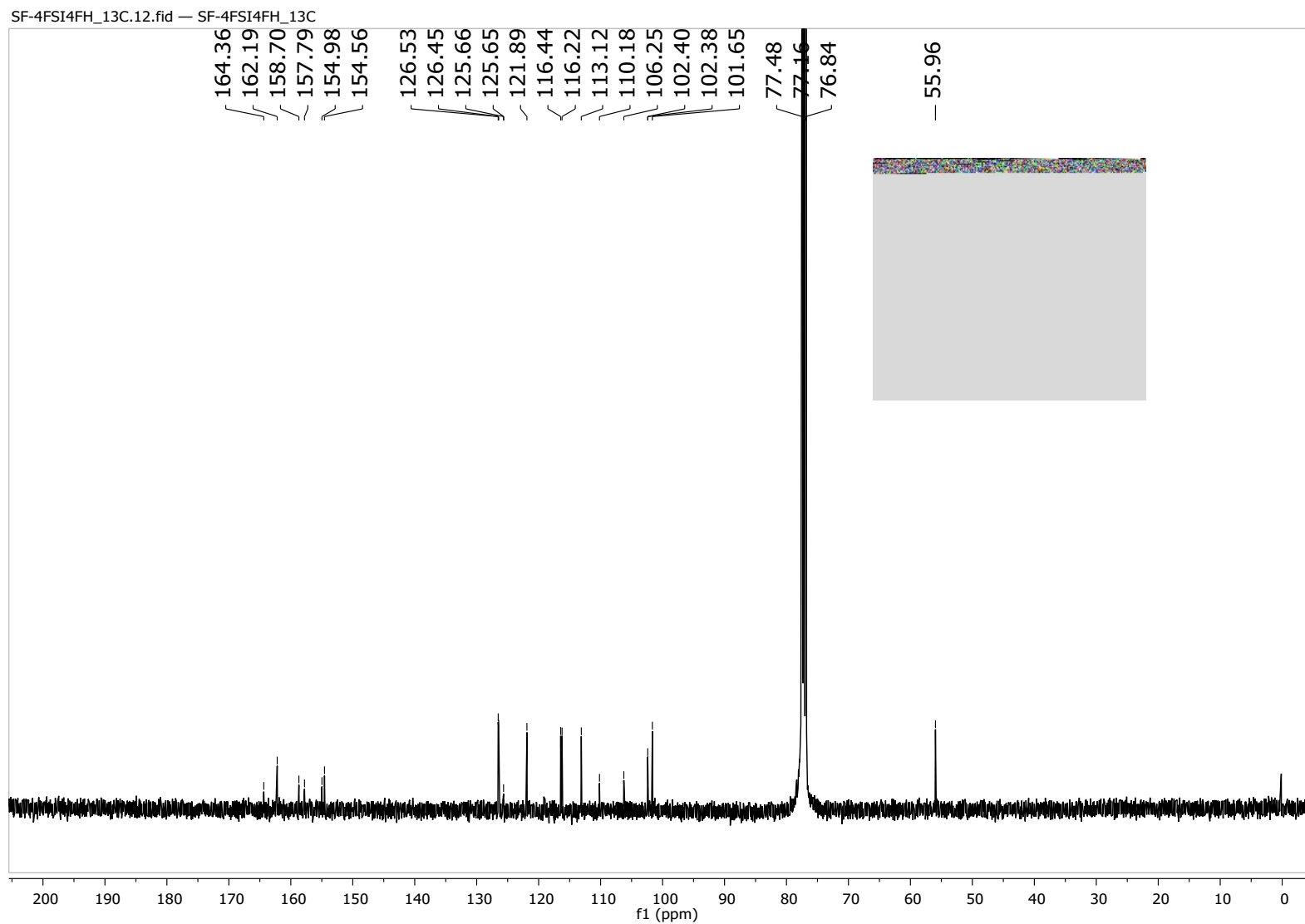
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¹H NMR Spectrum of 2-(4-Fluorophenyl)-7-methoxy-4H-furo[3,2-c]chromen-4-one (31)

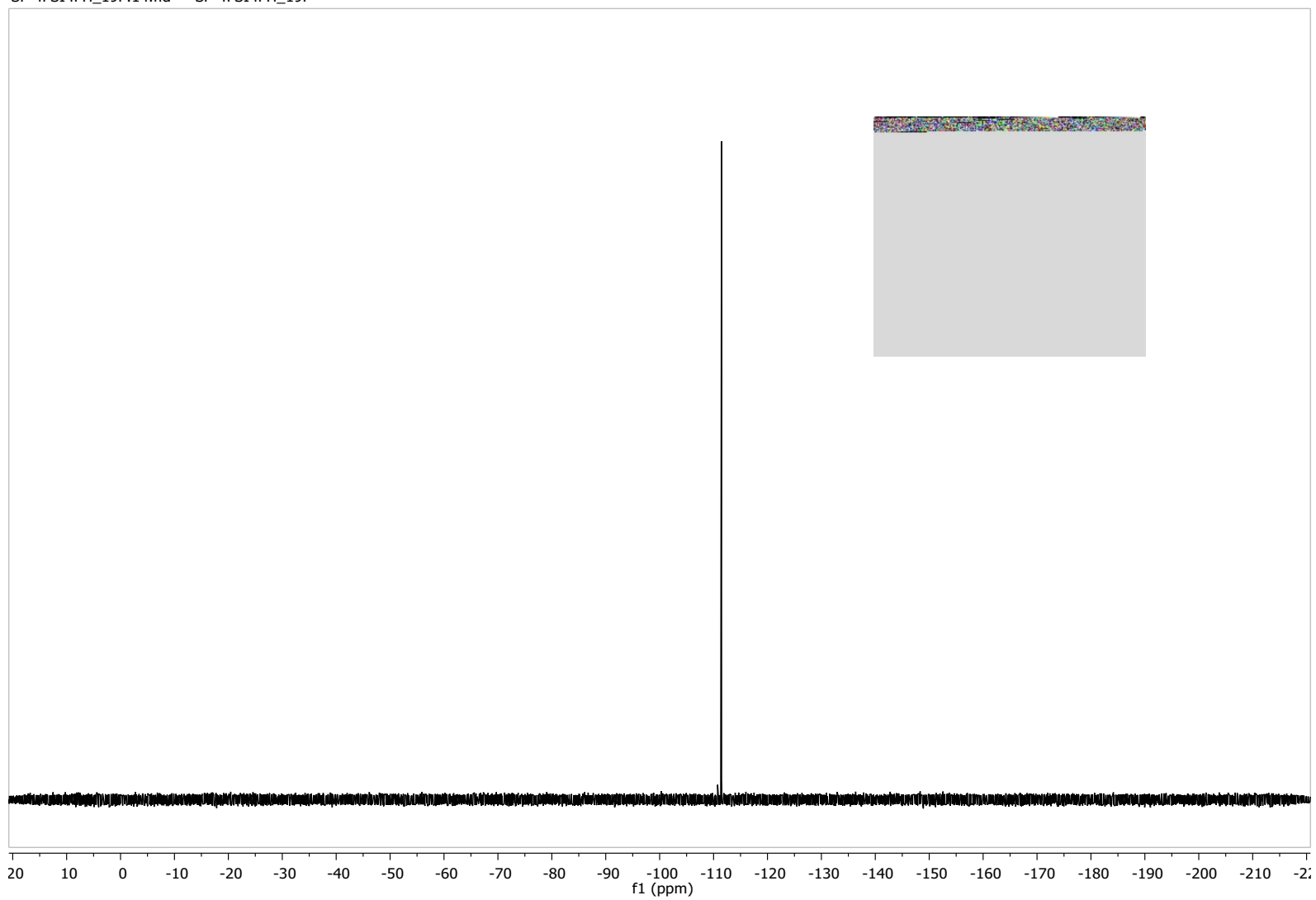


¹³C NMR Spectrum of 2-(4-Fluorophenyl)-7-methoxy-4*H*-furo[3,2-*c*]chromen-4-one (3l)



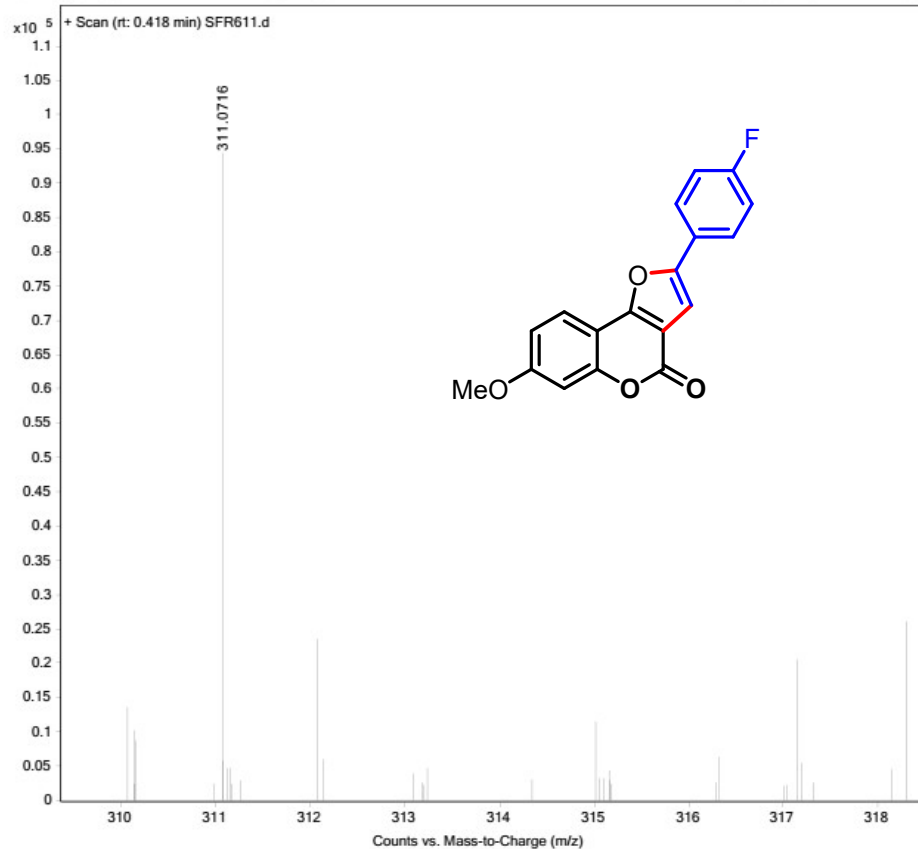
¹⁹F NMR Spectrum of 2-(4-Fluorophenyl)-7-methoxy-4*H*-furo[3,2-*c*]chromen-4-one (31)

SF-4FSI4FH_19F.14.fid — SF-4FSI4FH_19F

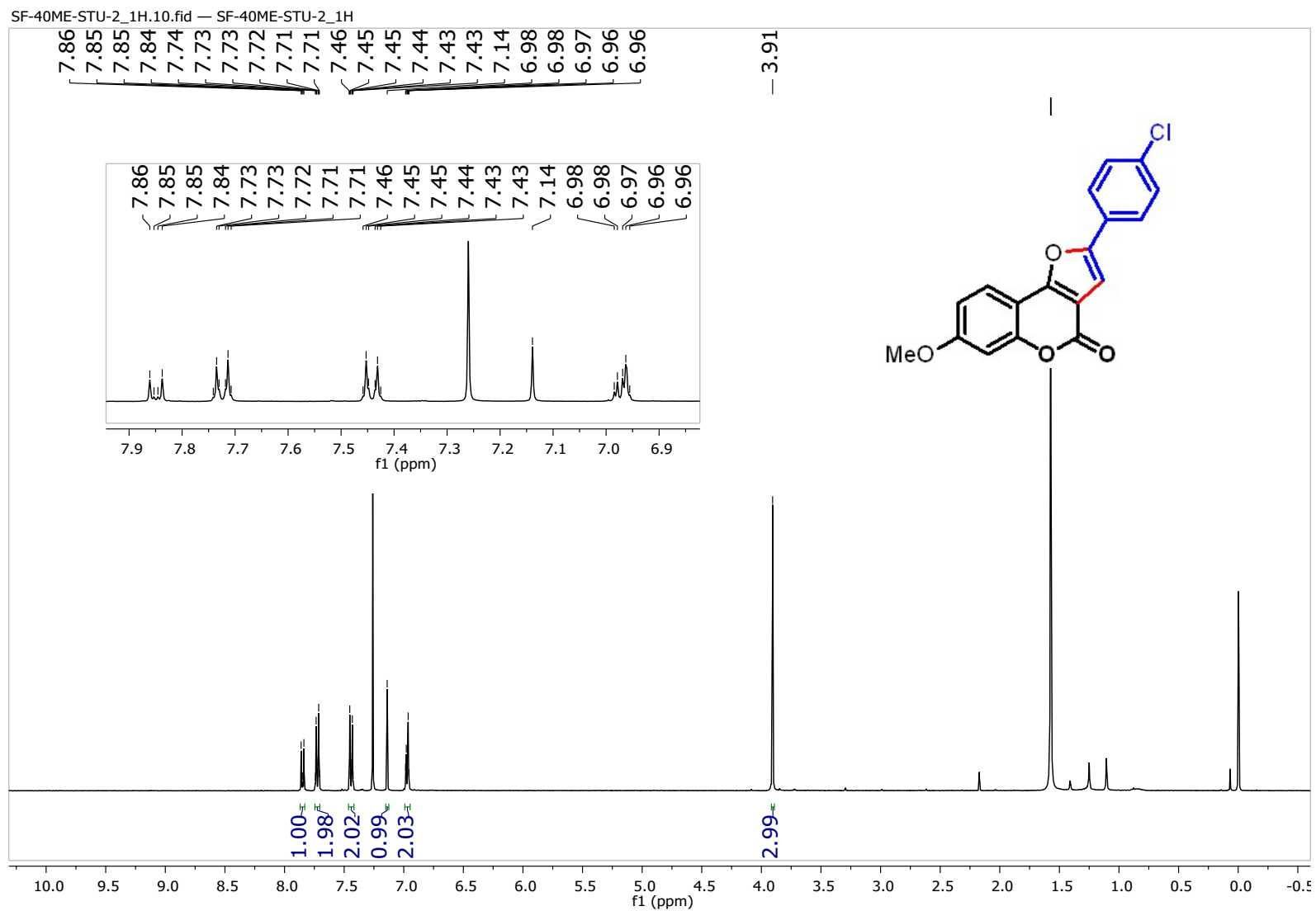


HRMS Spectrum of 2-(4-Fluorophenyl)-7-methoxy-4H-furo[3,2-c]chromen-4-one (3l)

Sample Name	Sample1	Position	P1-A1	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SFR611.d
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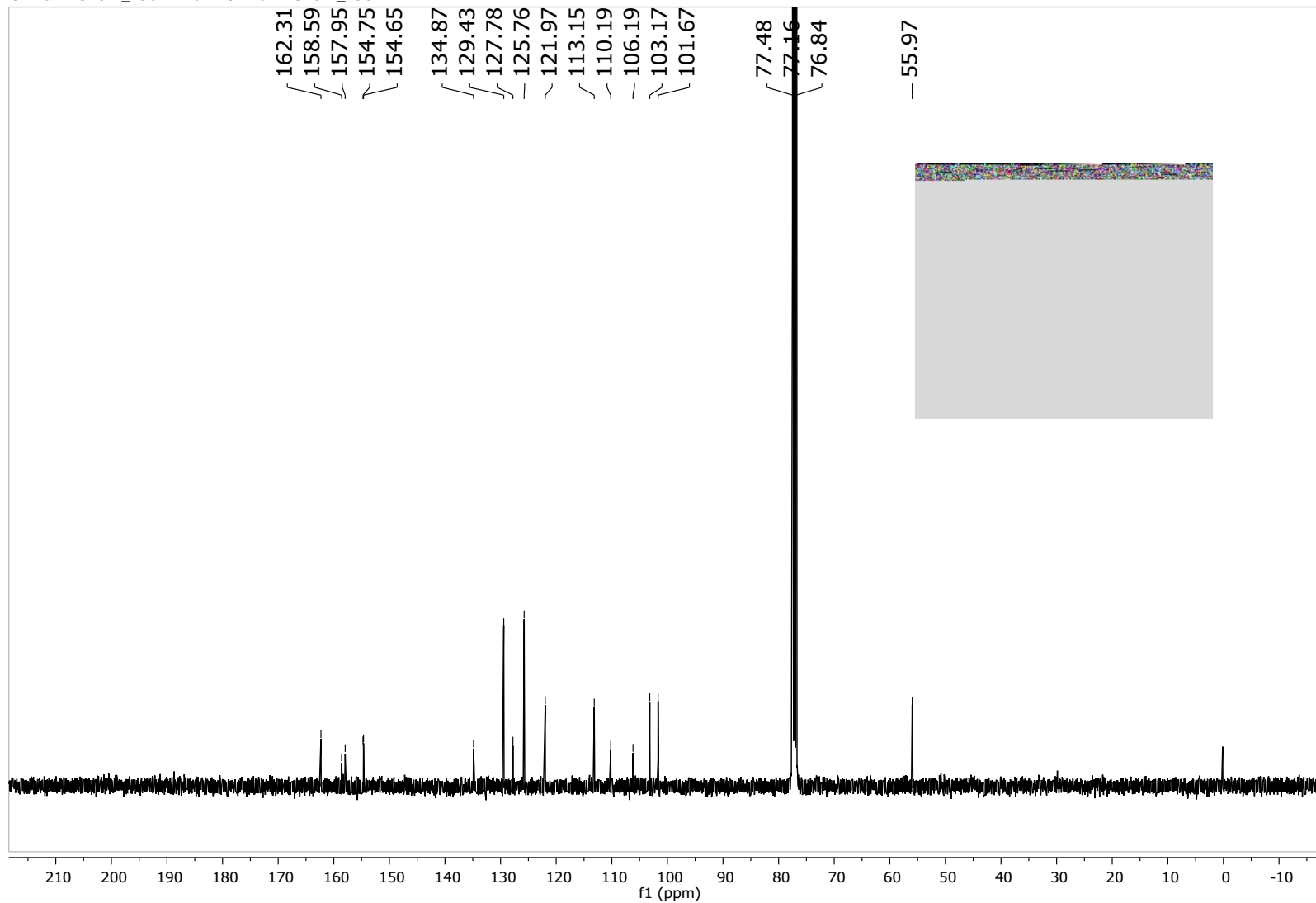


¹H NMR Spectrum of 2-(4-Chlorophenyl)-7-methoxy-4H-furo[3,2-c]chromen-4-one (3m)



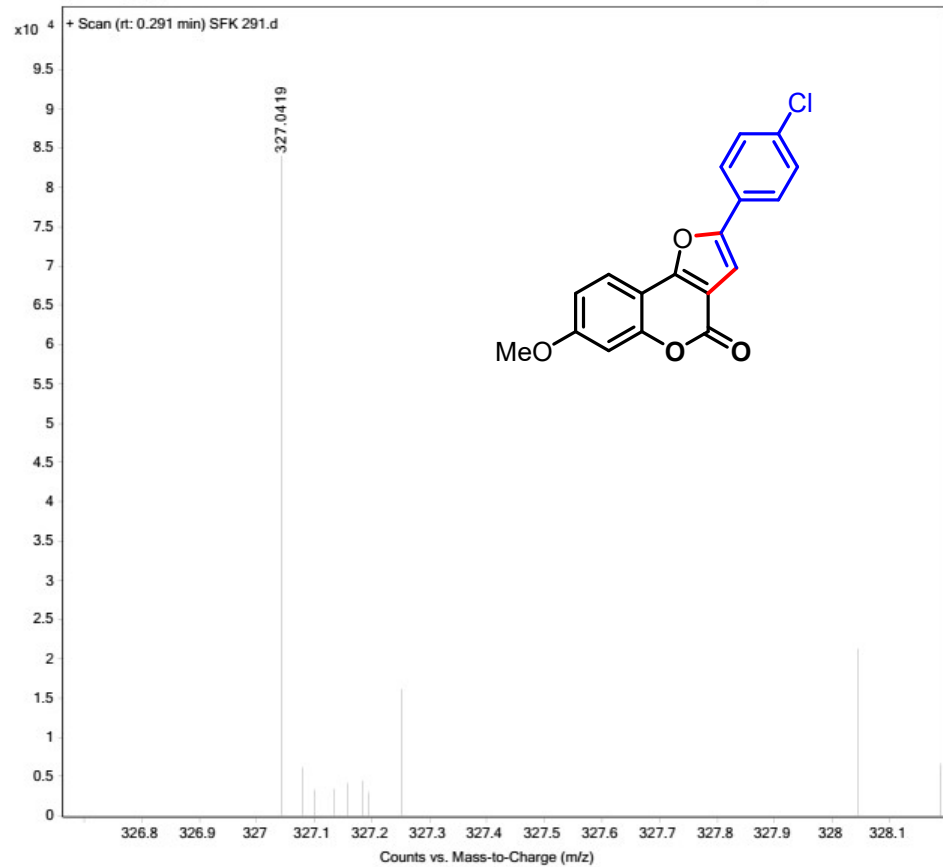
¹³C NMR Spectrum of 2-(4-Chlorophenyl)-7-methoxy-4*H*-furo[3,2-*c*]chromen-4-one (3m)

SF-40ME-STU-2_13C.12.fid — SF-40ME-STU-2_13C

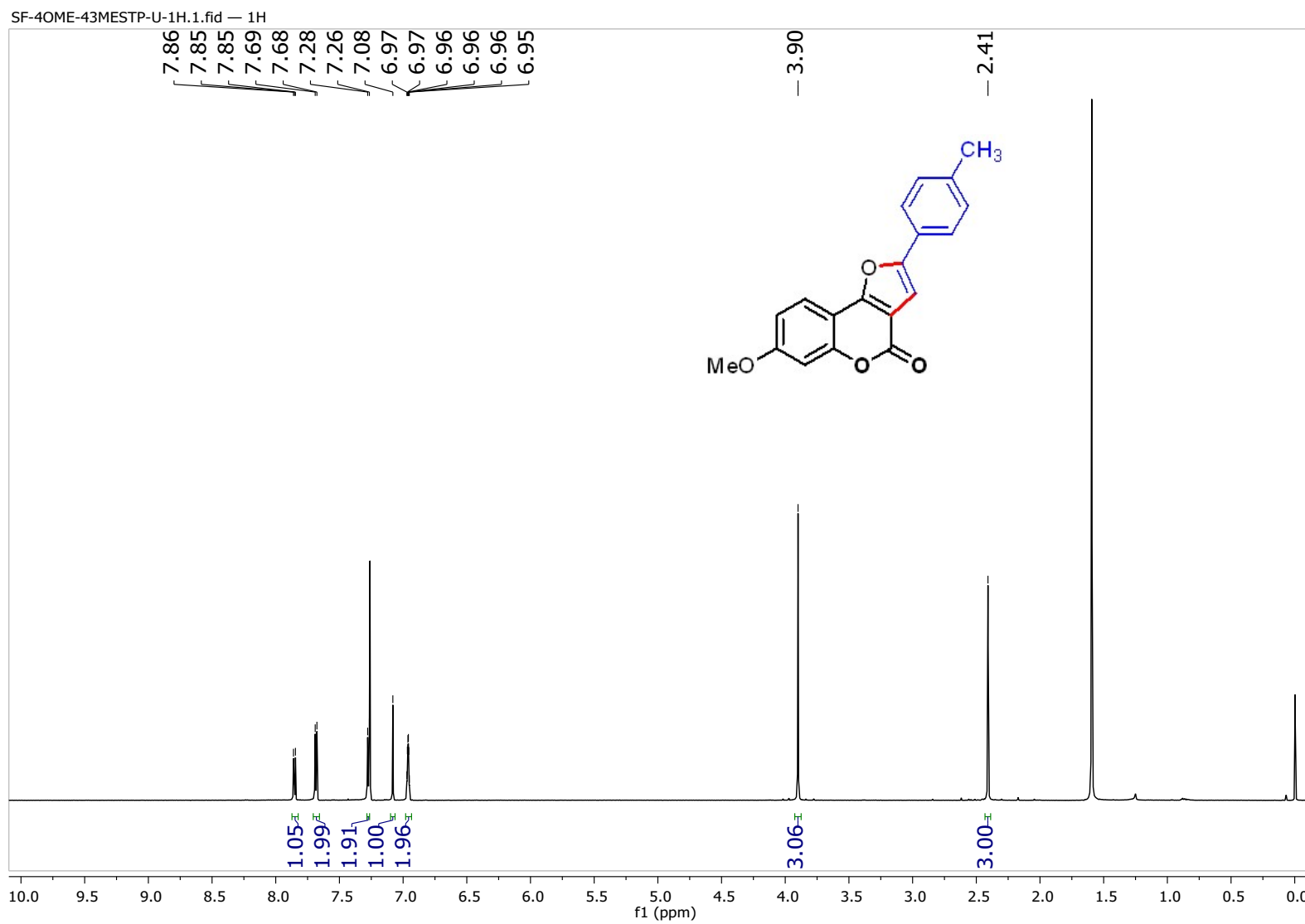


HRMS Spectrum of 2-(4-Chlorophenyl)-7-methoxy-4*H*-furo[3,2-*c*]chromen-4-one (3m)

Sample Name	Sample19	Position	P1-B8	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SFK 291.d
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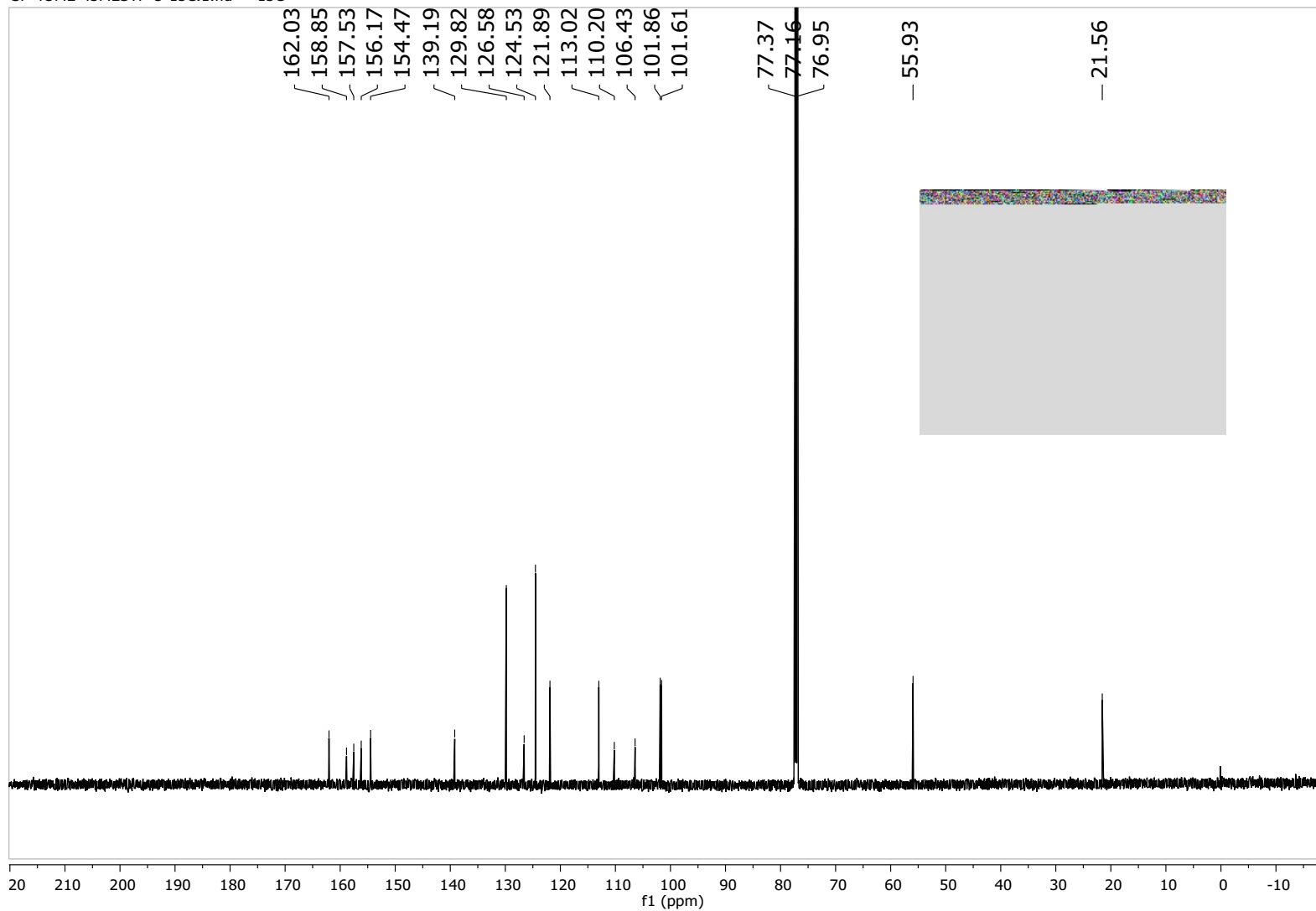


¹H NMR Spectrum of 7-Methoxy-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3n)



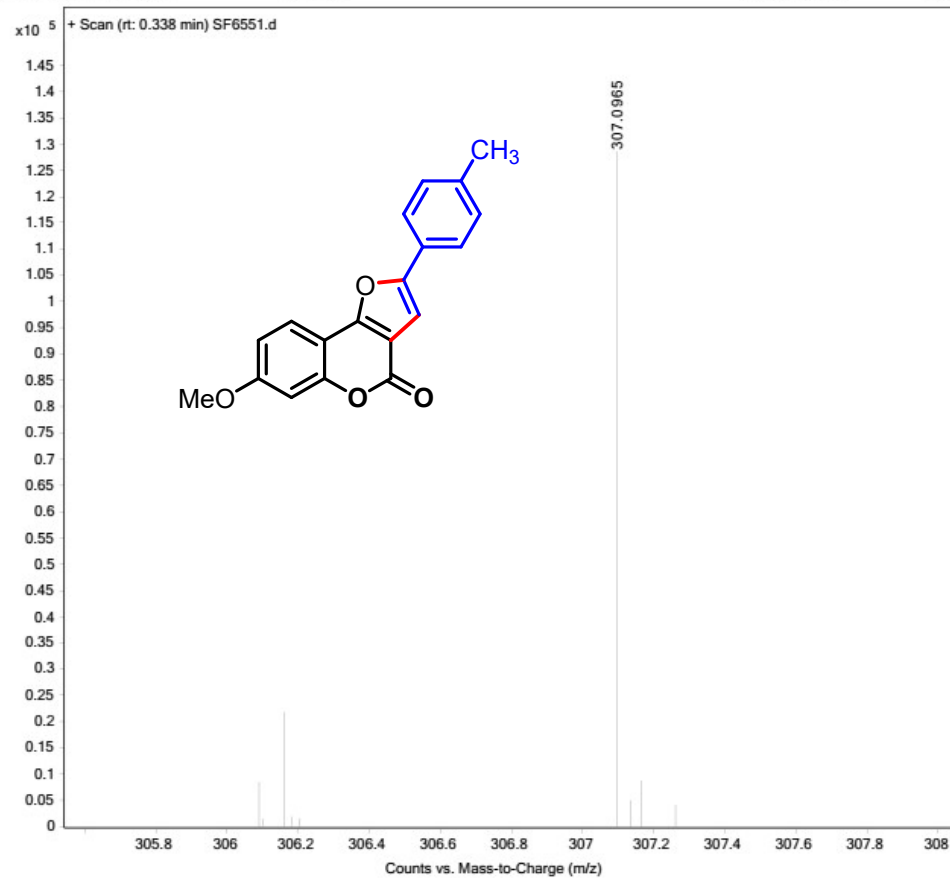
¹³C NMR Spectrum of 7-Methoxy-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3n)

SF-4OME-43MESTP-U-13C.1.fid — 13C

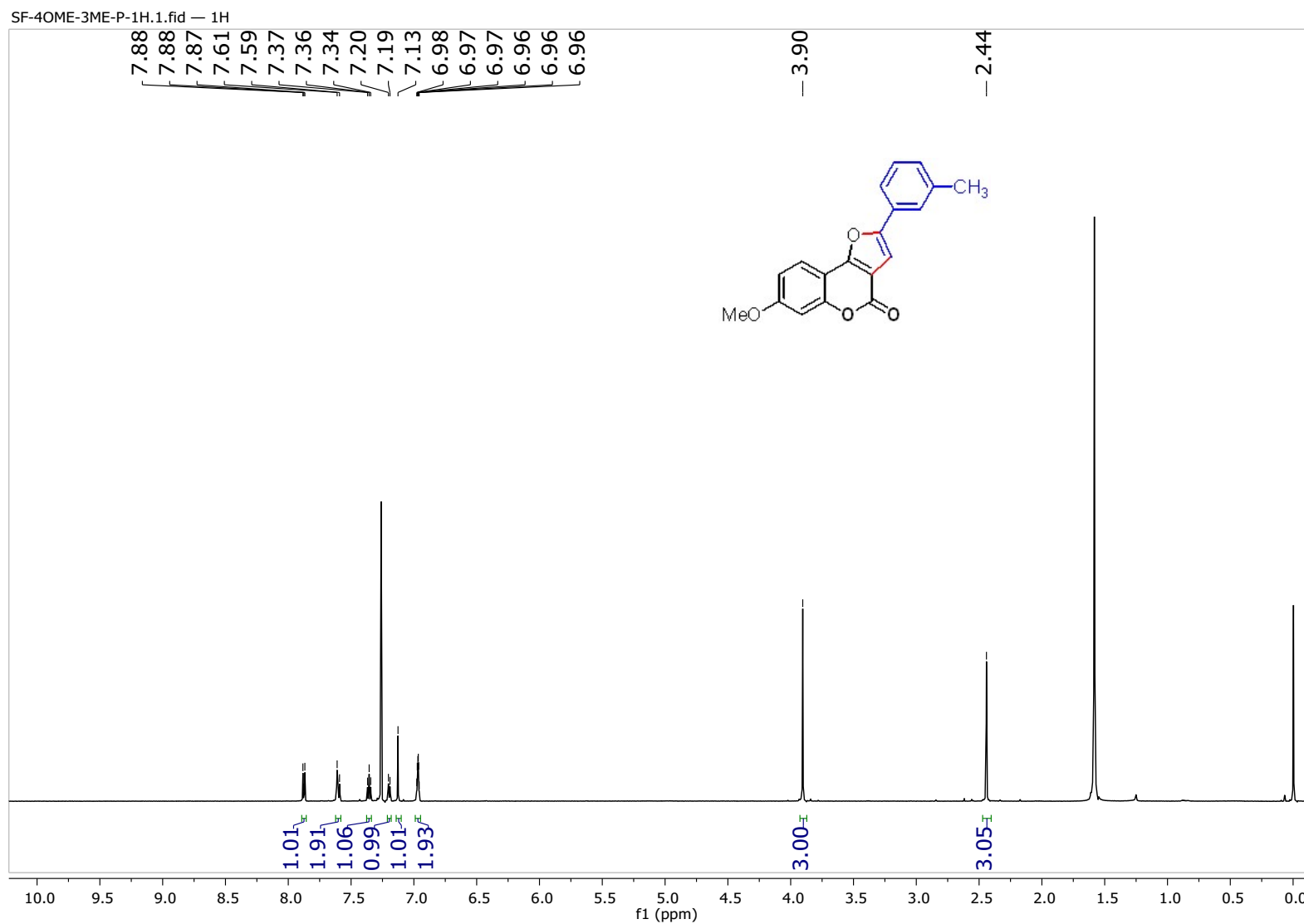


HRMS Spectrum of 7-Methoxy-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3n)

Sample Name	Sample6	Position	P1-A6	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF6551.d
ACQ Method	DIRECT MASS_POSITIVE_01_1.m	Comment		Acquired Time	13-07-2023 10:58:12 (UTC+05:30)

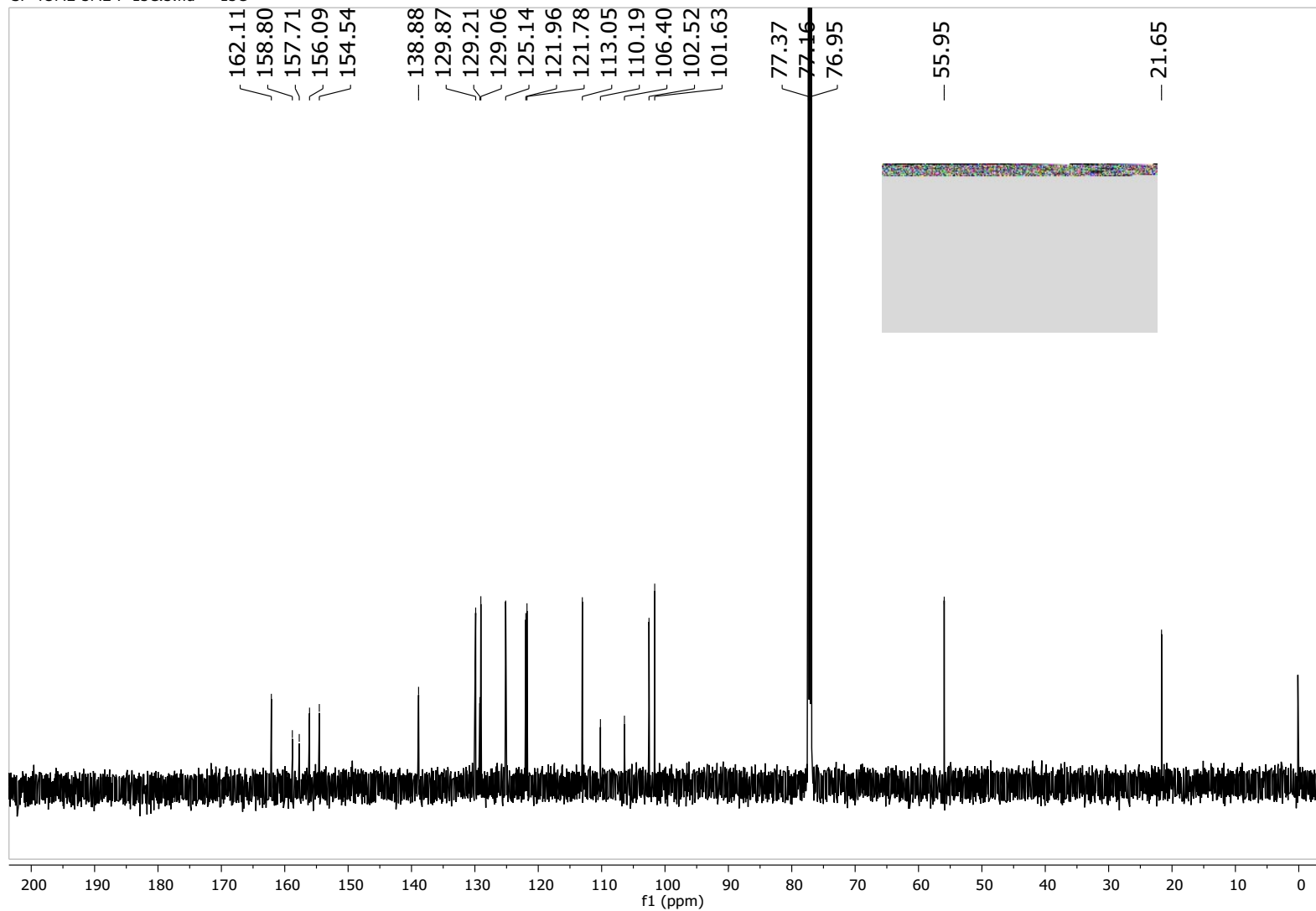


¹H NMR Spectrum of 7-Methoxy-2-(*m*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3o)



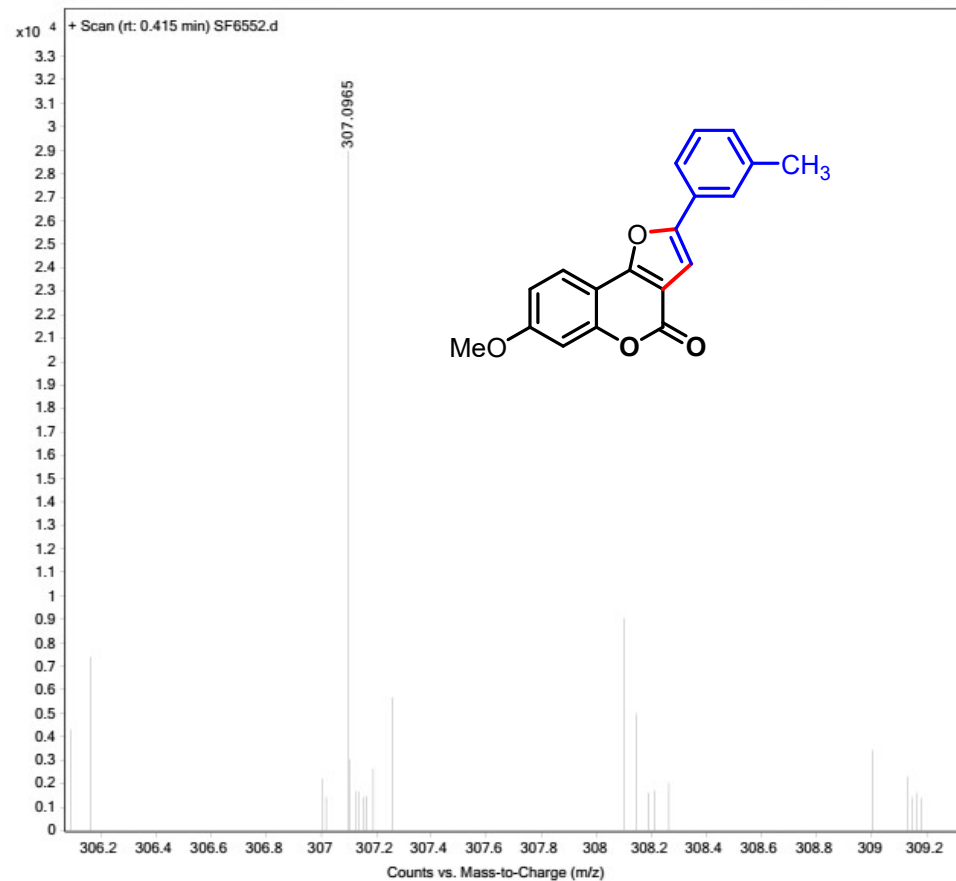
¹³C NMR Spectrum of 7-Methoxy-2-(*m*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3o)

SF-4OME-3ME-P-13C.3.fid — 13C

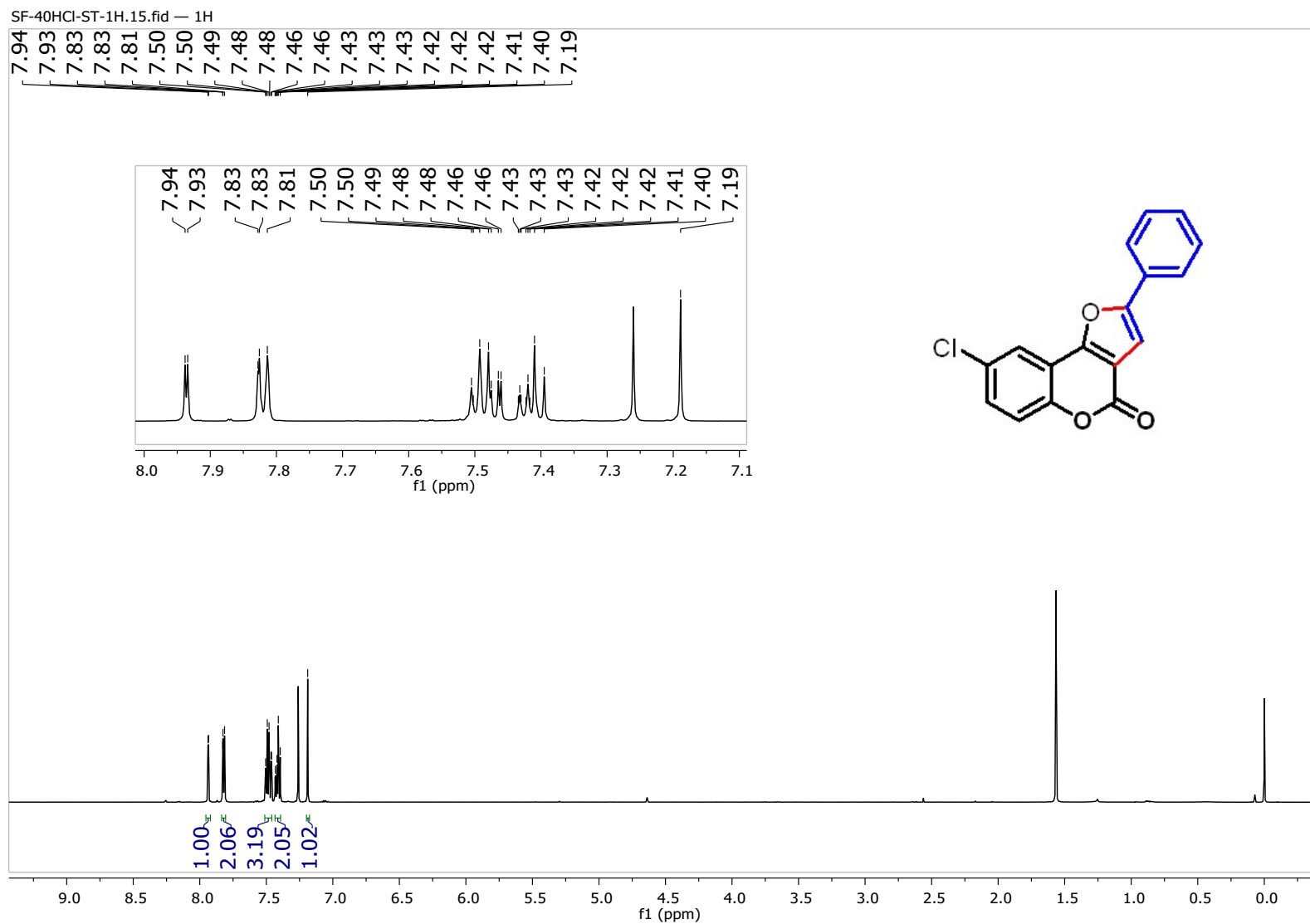


HRMS Spectrum of 7-Methoxy-2-(*m*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3o)

Sample Name	Sample7	Position	P1-A7	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF6552.d
ACQ Method	DIRECT MASS_POSITIVE_01_1.m	Comment		Acquired Time	13-07-2023 11:00:16 (UTC+05:30)

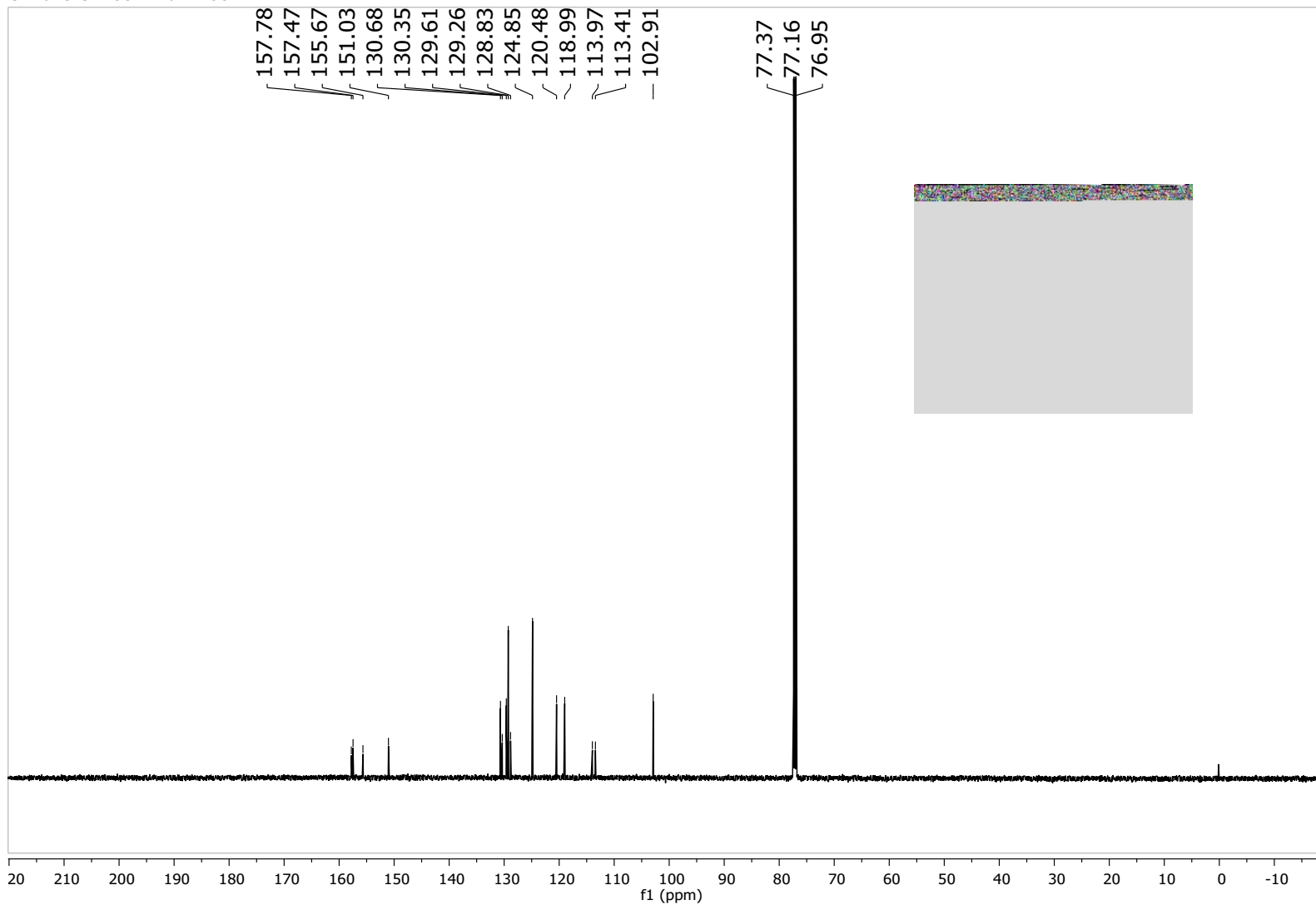


¹H NMR Spectrum of 8-Chloro-2-phenyl-4H-furo[3,2-c]chromen-4-one (3p)



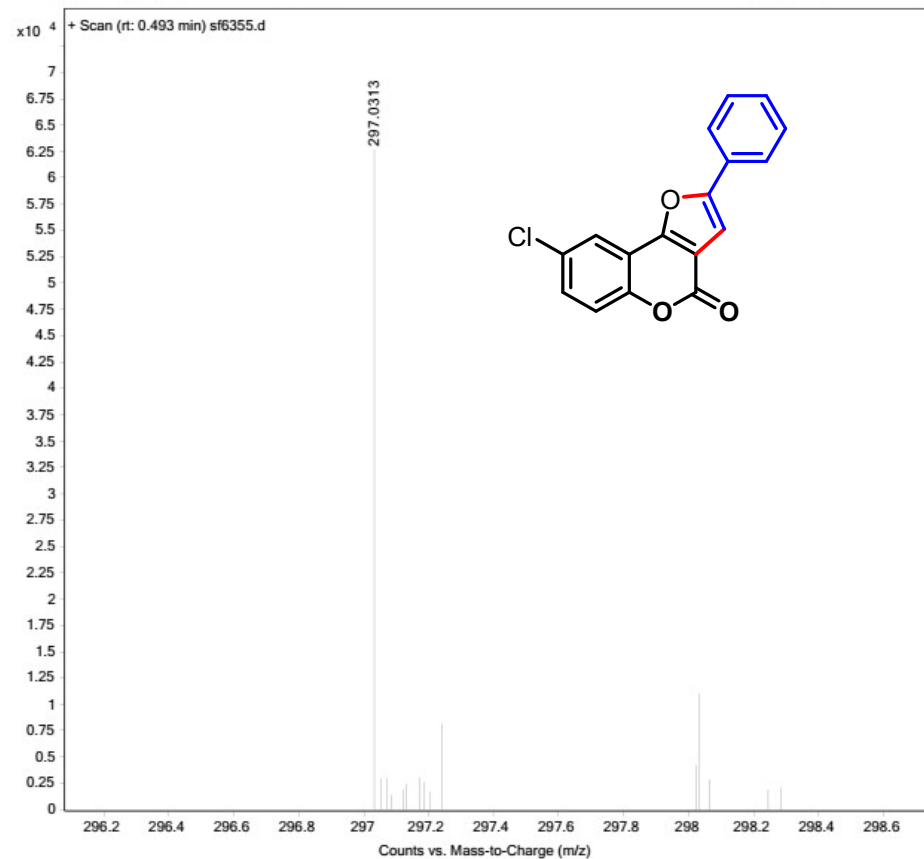
¹³C NMR Spectrum of 8-Chloro-2-phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3p)

SF-40HCl-ST-13C.17.fid — 13C

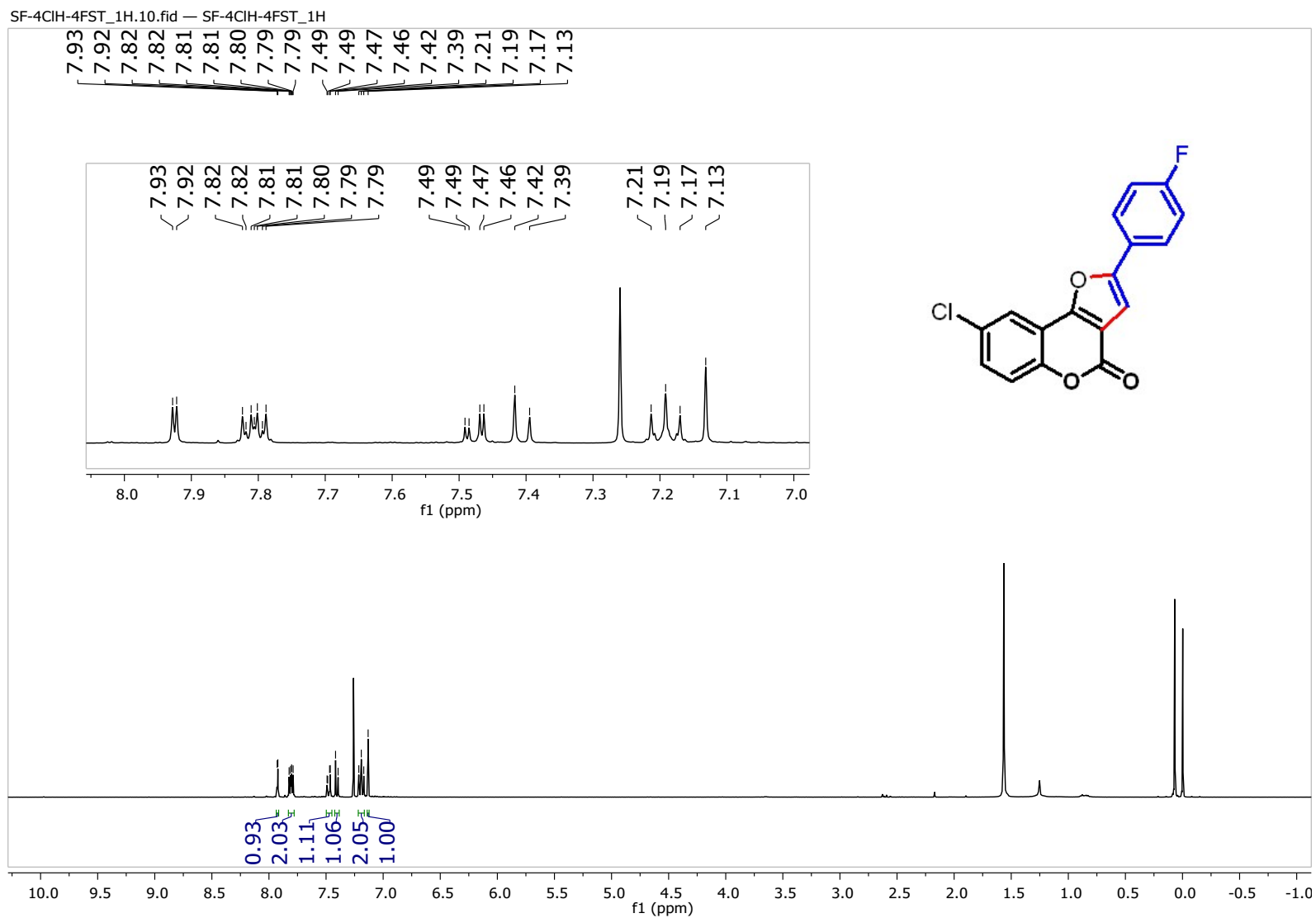


HRMS Spectrum of 8-Chloro-2-phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3p)

Sample Name	Sample13	Position	P1-B1	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	sf6355.d
ACQ Method	DIRECT MASS_POSITIVE_100_1500.m	Comment		Acquired Time	12-07-2023 15:18:08 (UTC+05:30)

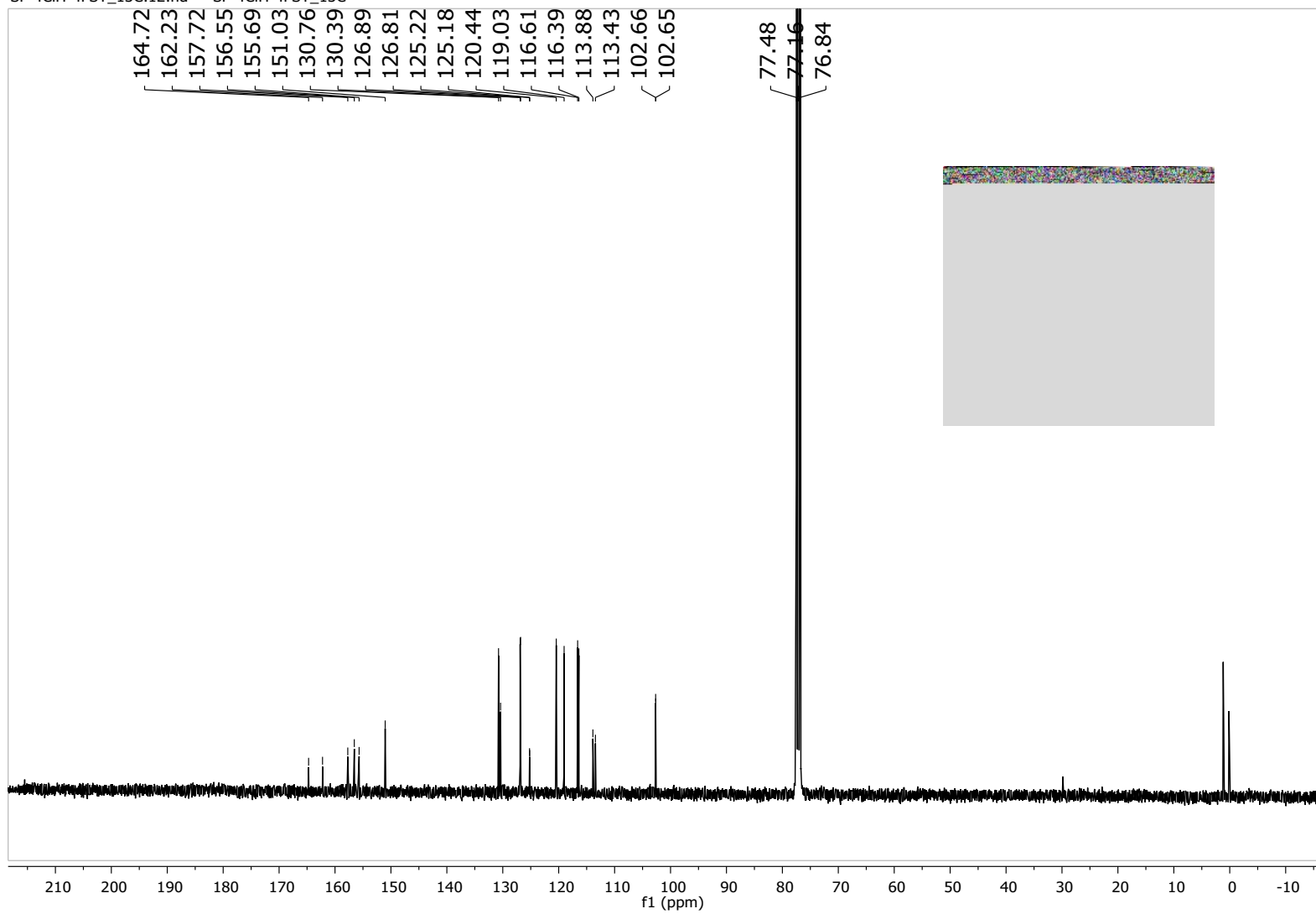


¹H NMR Spectrum of 8-Chloro-2-(4-fluorophenyl)-4H-furo[3,2-c]chromen-4-one (3q)



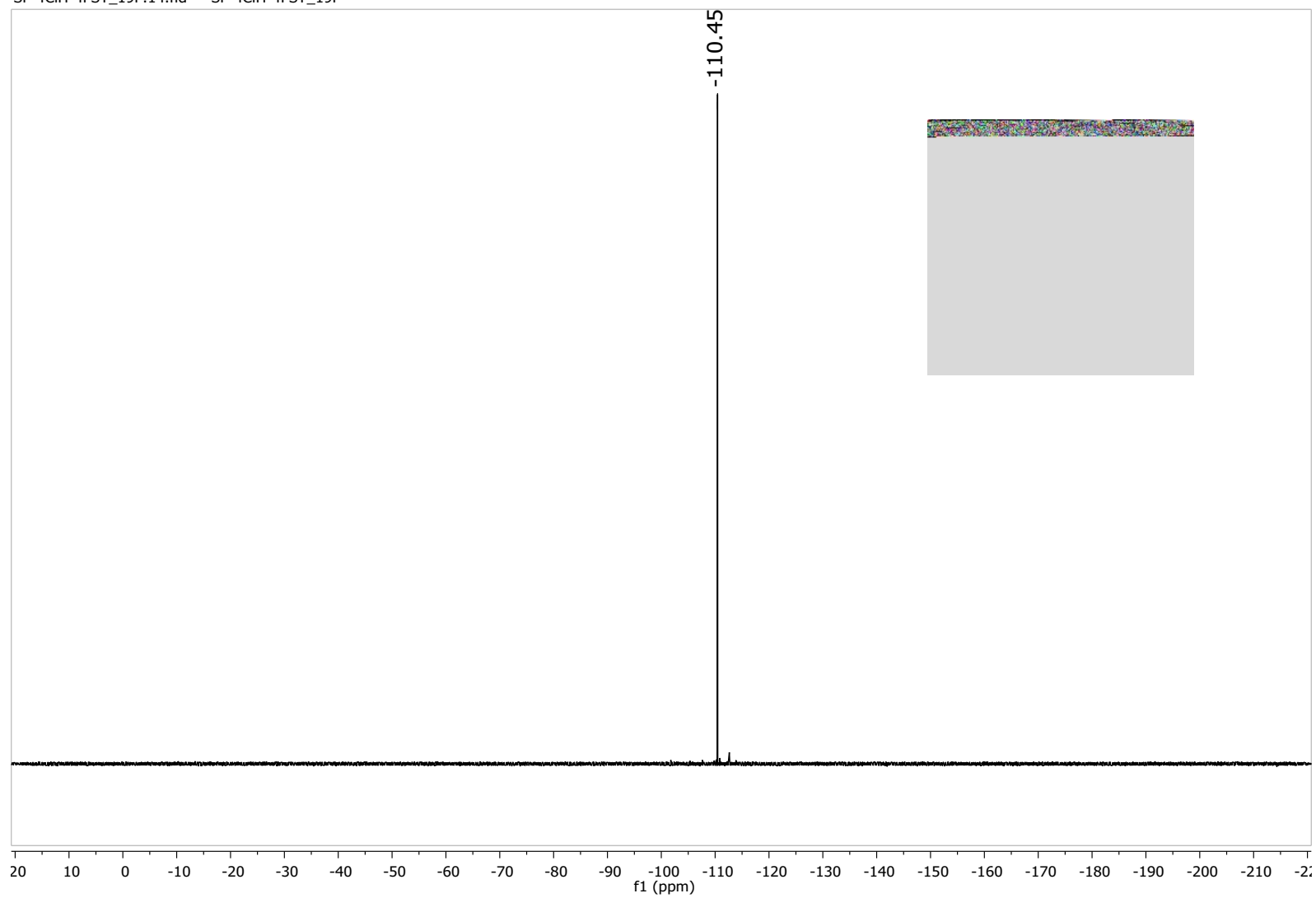
¹³C NMR Spectrum of 8-Chloro-2-(4-fluorophenyl)-4H-furo[3,2-c]chromen-4-one (3q)

SF-4CIH-4FST_13C.12.fid — SF-4CIH-4FST_13C



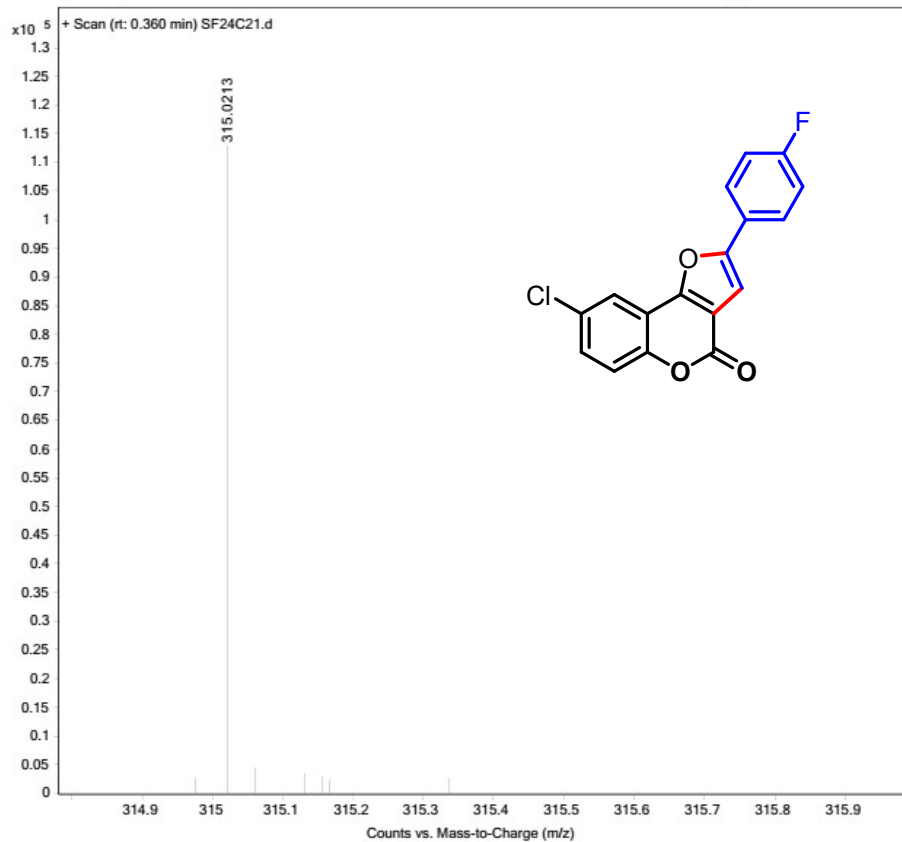
¹⁹F NMR Spectrum of 8-Chloro-2-(4-fluorophenyl)-4*H*-furo[3,2-*c*]chromen-4-one (3q)

SF-4CIH-4FST_19F.14.fid — SF-4CIH-4FST_19F



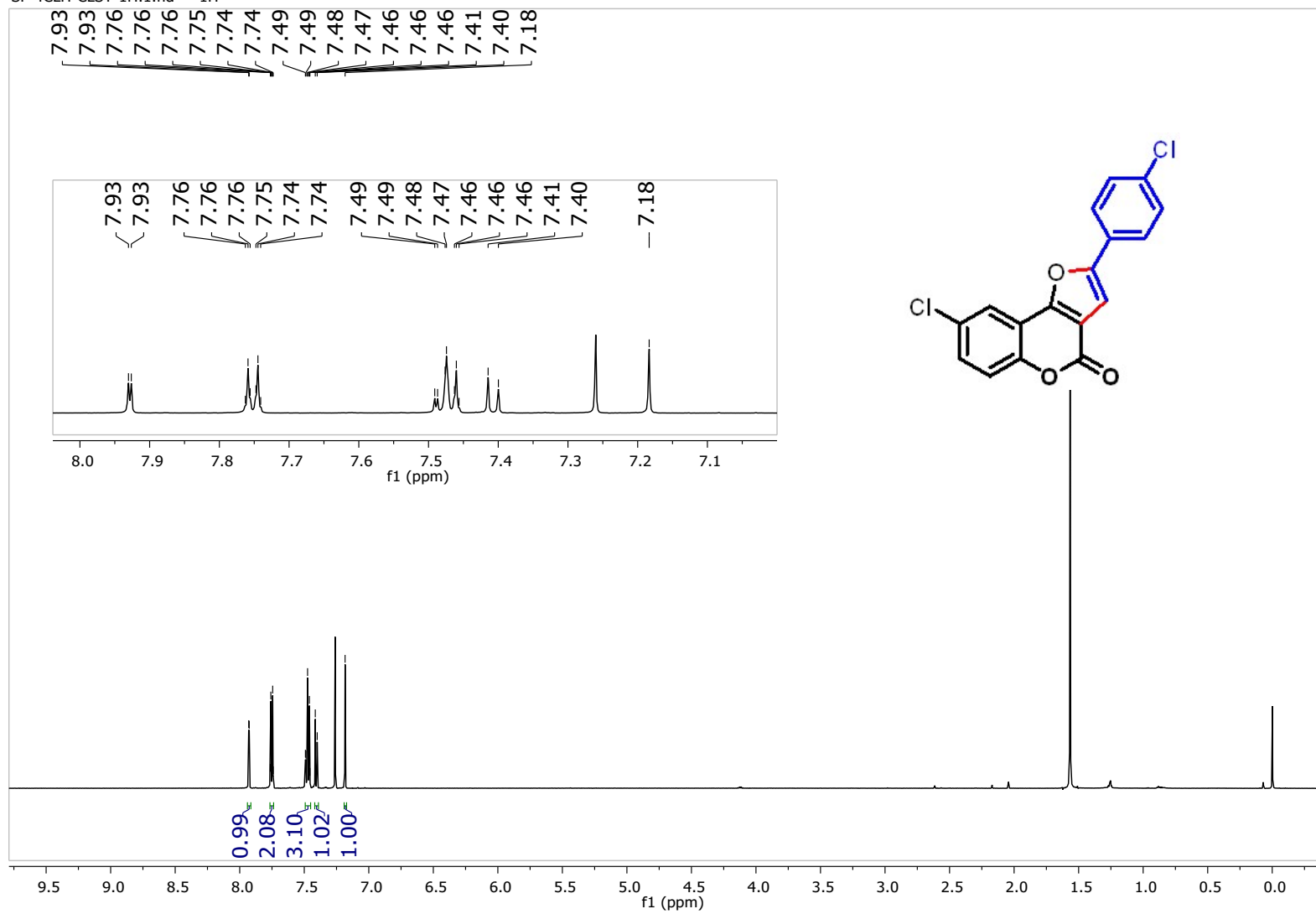
HRMS Spectrum of 8-Chloro-2-(4-fluorophenyl)-4H-furo[3,2-c]chromen-4-one (3q)

Sample Name	Sample2	Position	P1-A2	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF24C21.d
ACQ Method	DIRECT MASS_POSITIVE_01.m	Comment		Acquired Time	18-04-2023 10:53:41 (UTC+05:30)



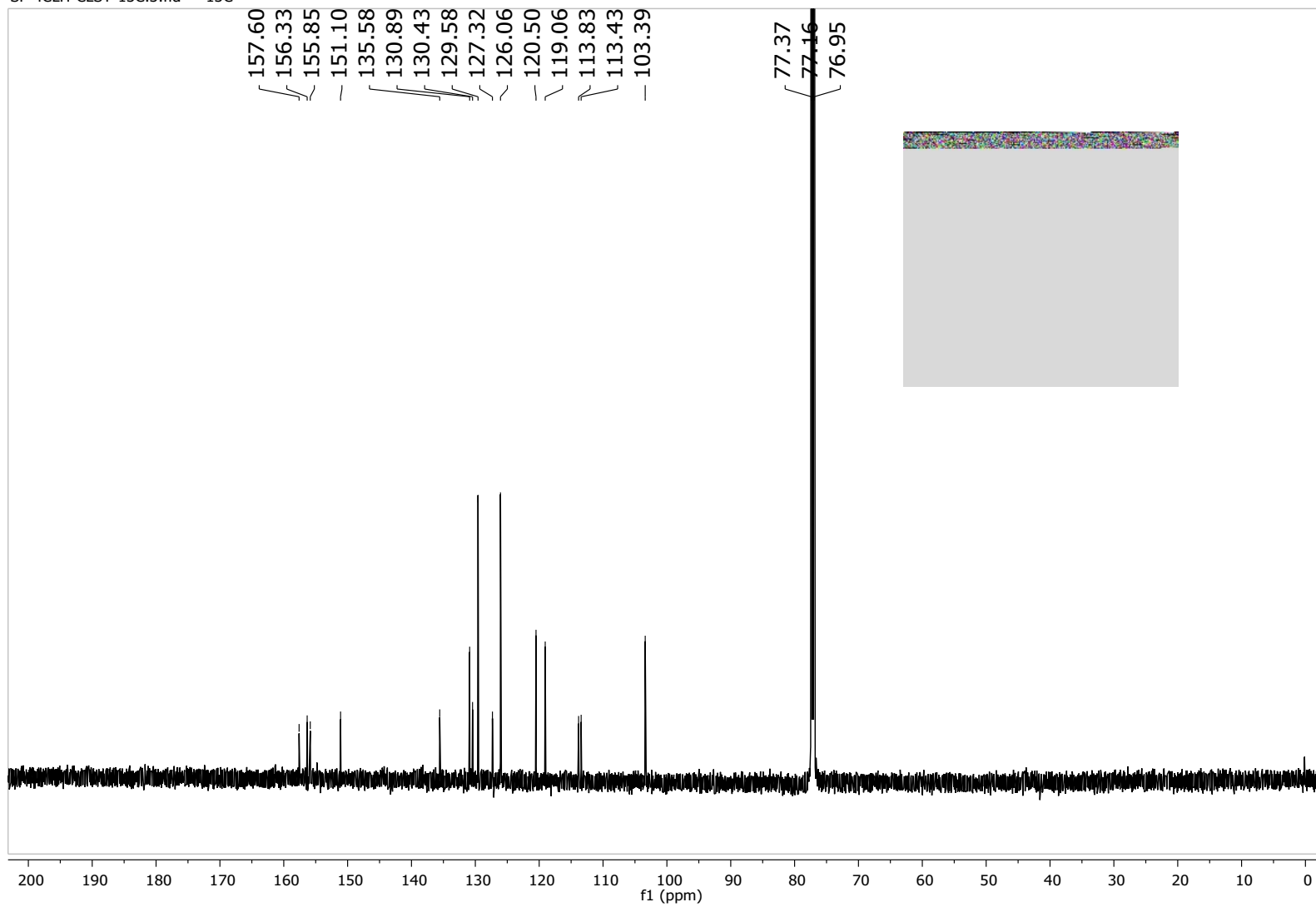
¹H NMR Spectrum of 8-Chloro-2-(4-chlorophenyl)-4H-furo[3,2-c]chromen-4-one (3r)

SF-4CLH-CLST-1H.1.fid - 1H



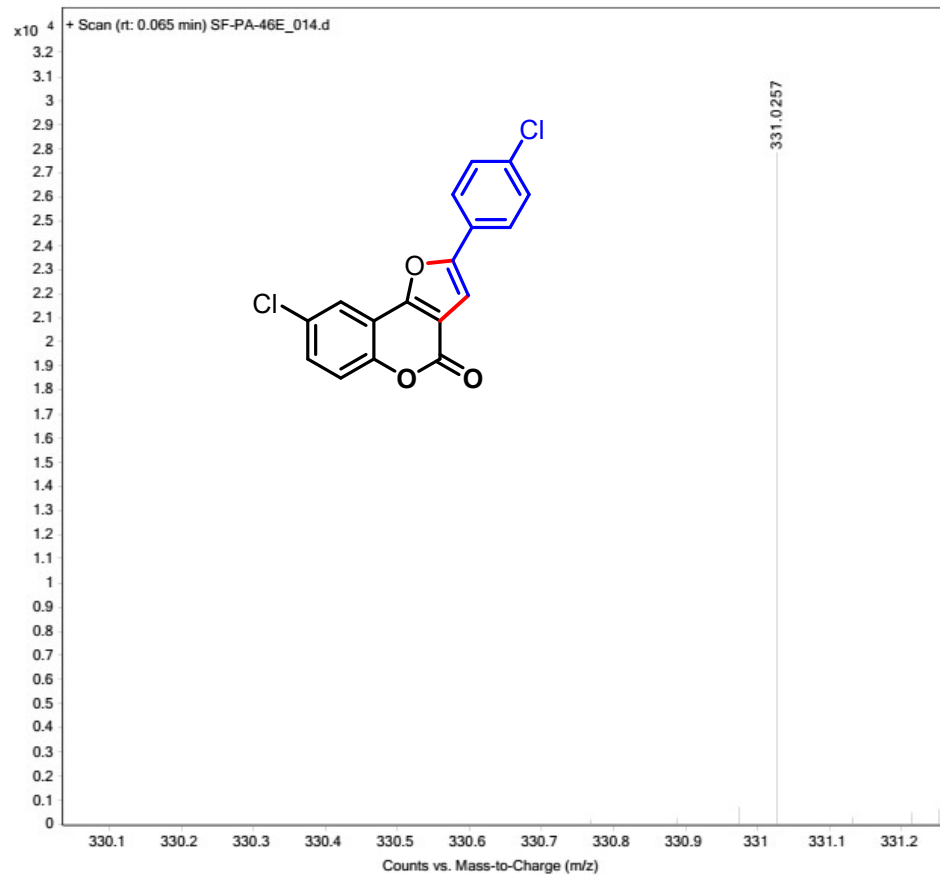
¹³C NMR Spectrum of 8-Chloro-2-(4-chlorophenyl)-4H-furo[3,2-c]chromen-4-one (3r)

SF-4CLH-CLST-13C.3.fid — 13C

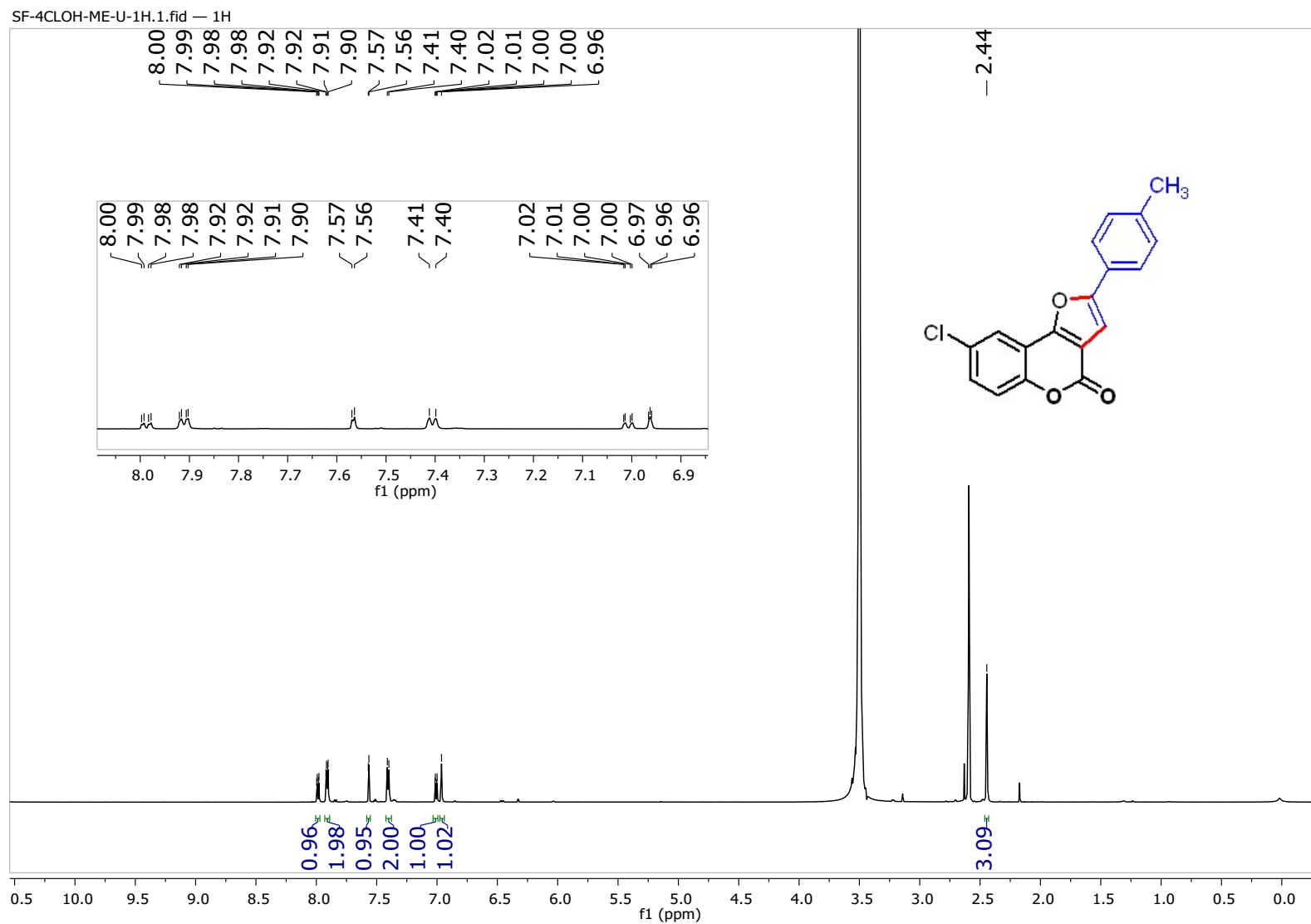


HRMS Spectrum of 8-Chloro-2-(4-chlorophenyl)-4H-furo[3,2-c]chromen-4-one (3r)

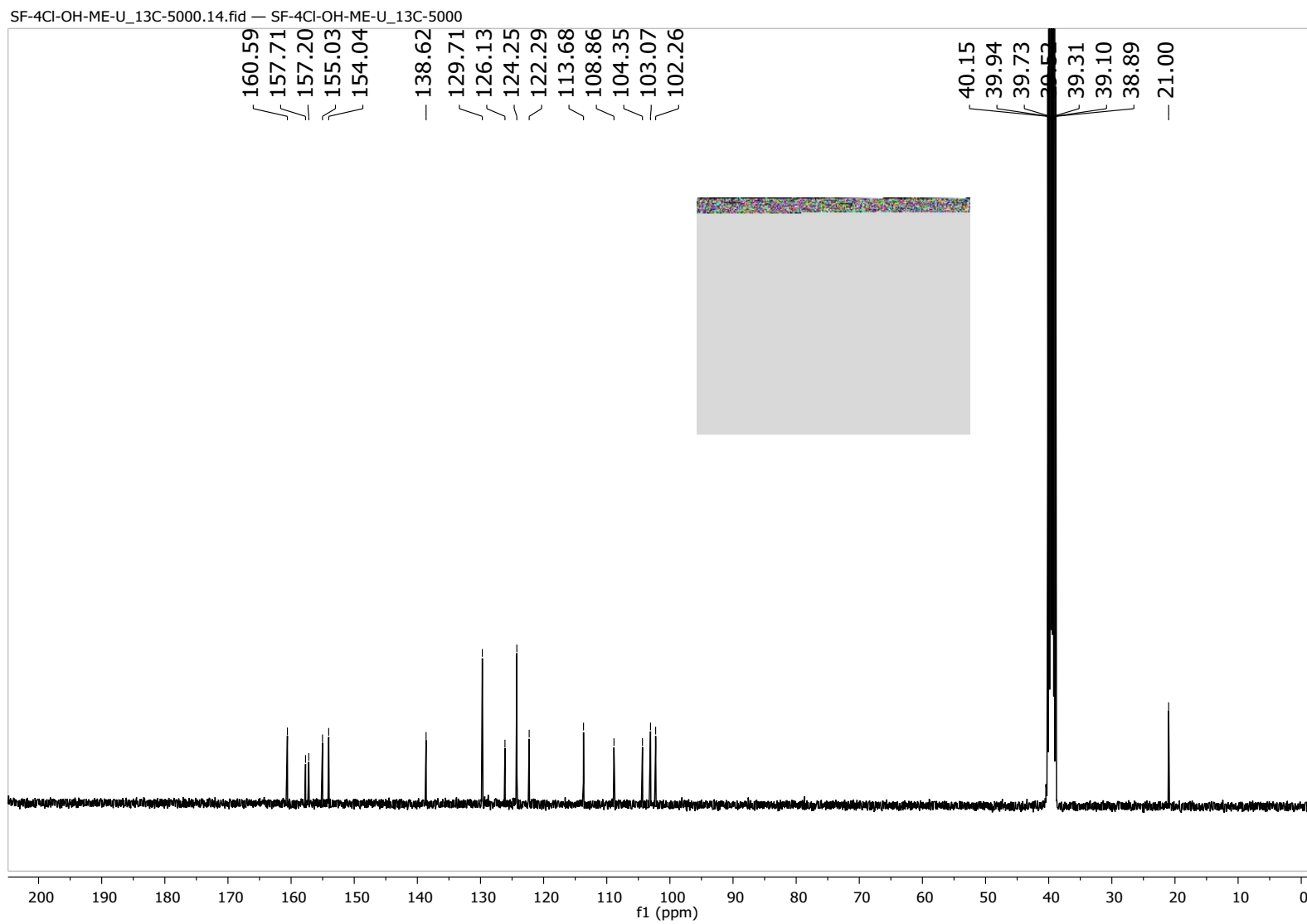
Sample Name	SF-PA-46E	Position	P2-D5	Instrument Name	Instrument 1
User Name		Inj Vol	10	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF-PA-46E_014.d
ACQ Method	FULL SCAN-POSITIVE.m	Comment		Acquired Time	30-04-2022 00:39:05 (UTC+05:30)



¹H NMR Spectrum of 8-Chloro-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3s)

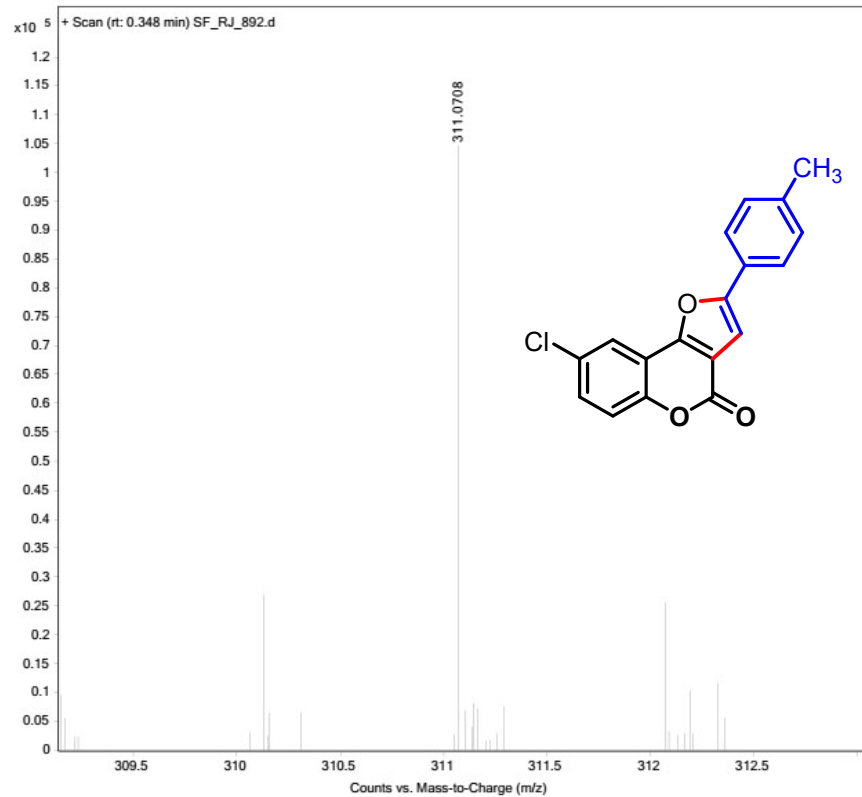


¹³C NMR Spectrum of 8-Chloro-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3s)

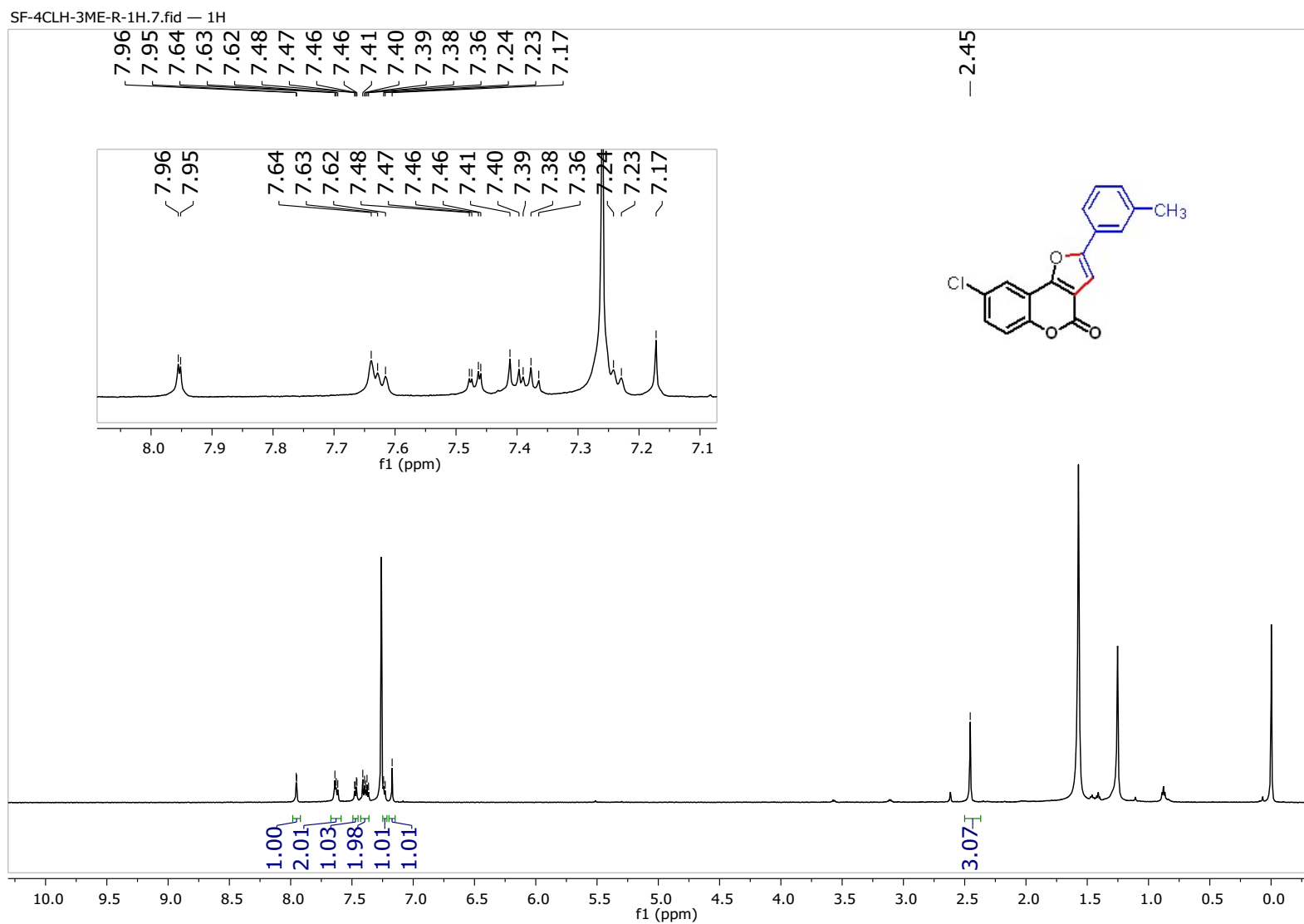


HRMS Spectrum of 8-Chloro-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3s)

Sample Name	Sample22	Position	P1-B11	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF_RJ_892.d
ACQ Method	DIRECT MASS_POSITIVE_01_1.m	Comment		Acquired Time	19-10-2023 10:58:11 (UTC+05:30)

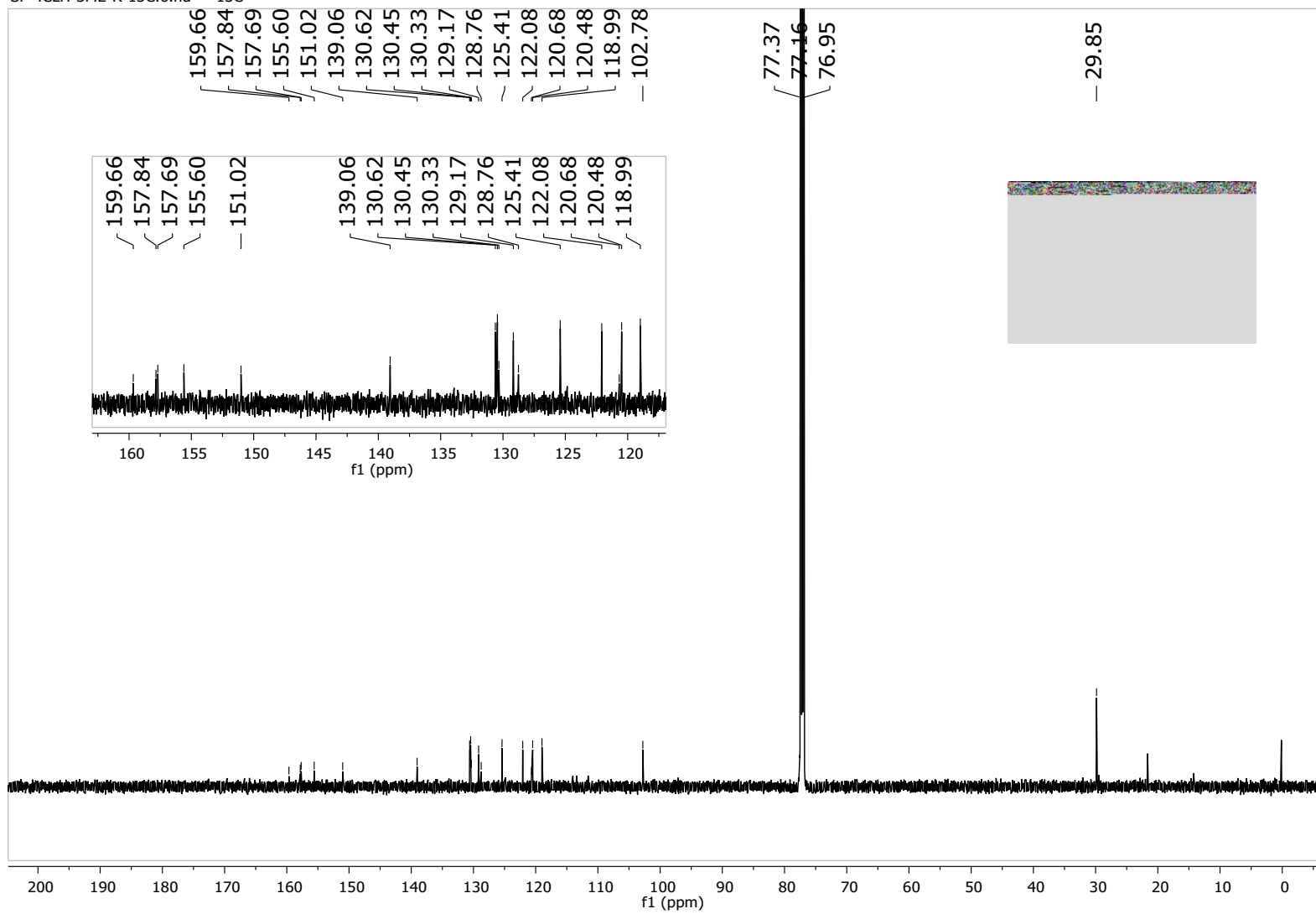


¹H NMR Spectrum of 8-Chloro-2-(*m*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3t)



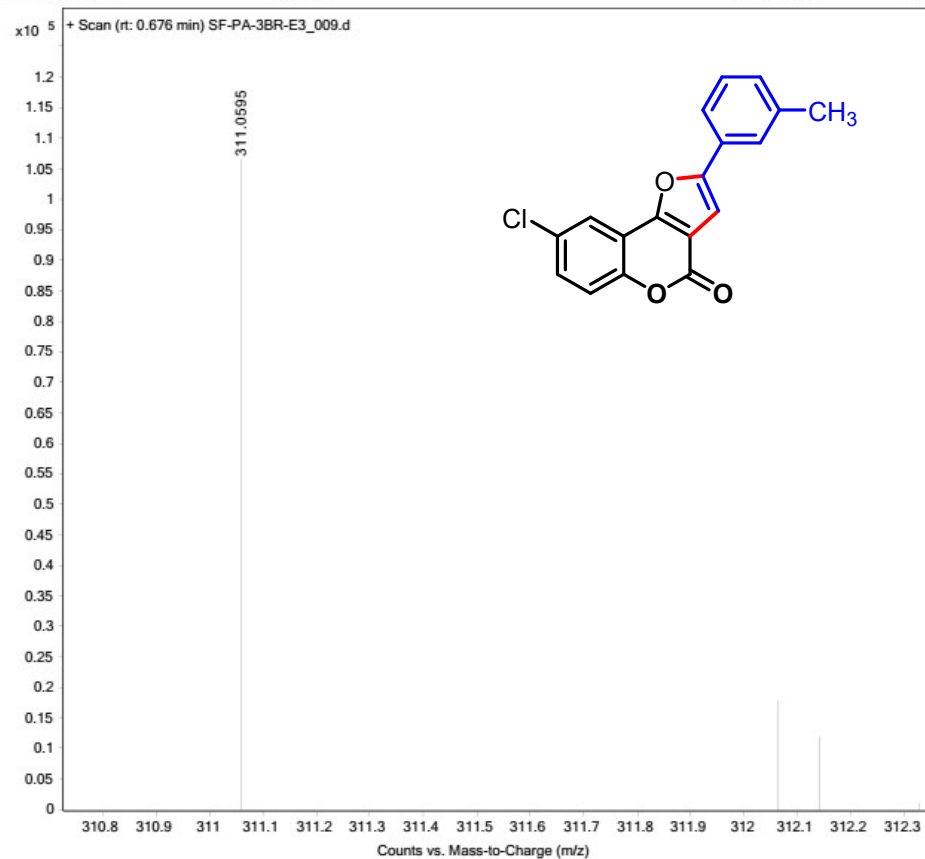
¹³C NMR Spectrum of 8-Chloro-2-(*m*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3t)

SF-4CLH-3ME-R-13C.6.fid - 13C

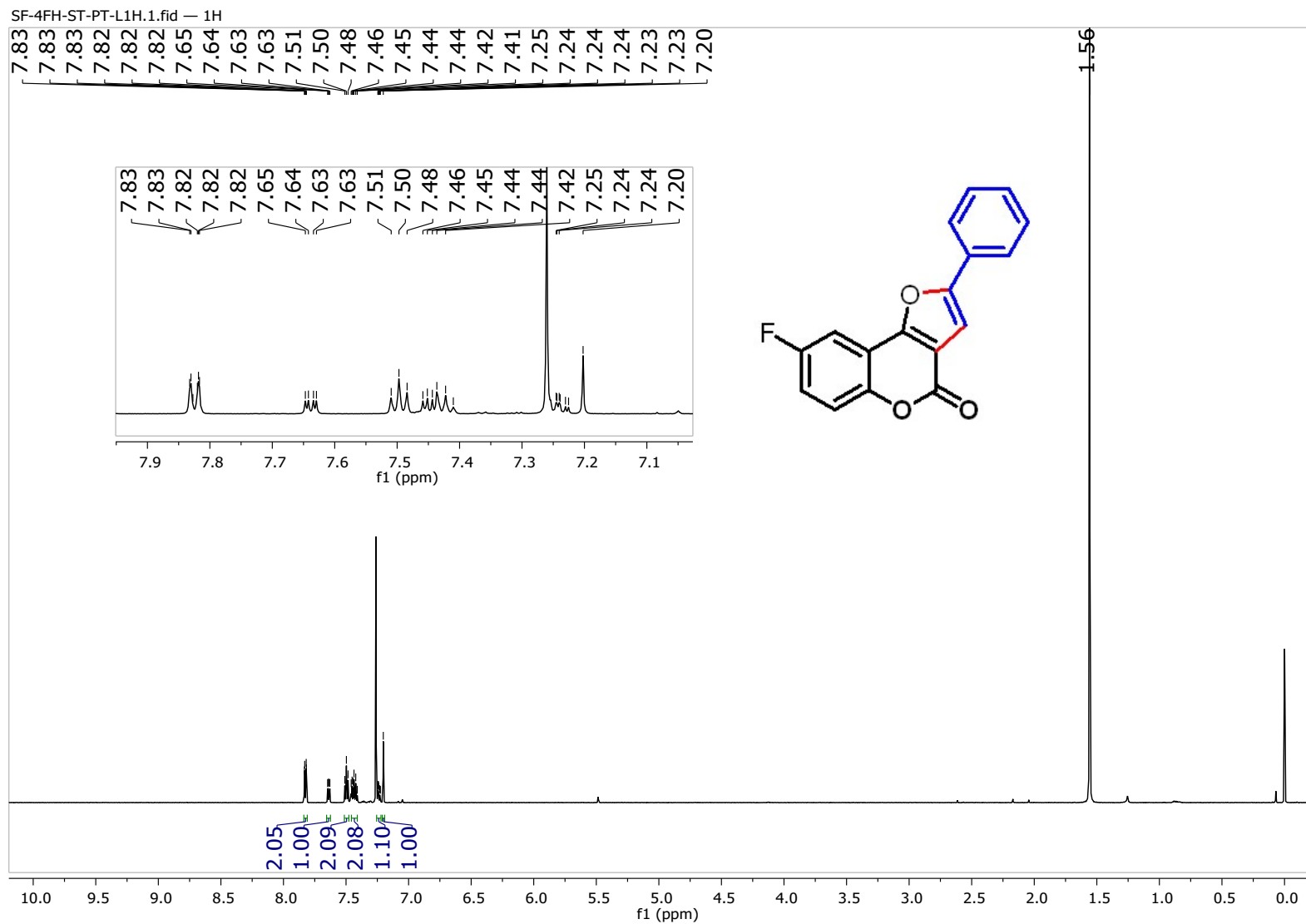


HRMS Spectrum of 8-Chloro-2-(*m*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3t)

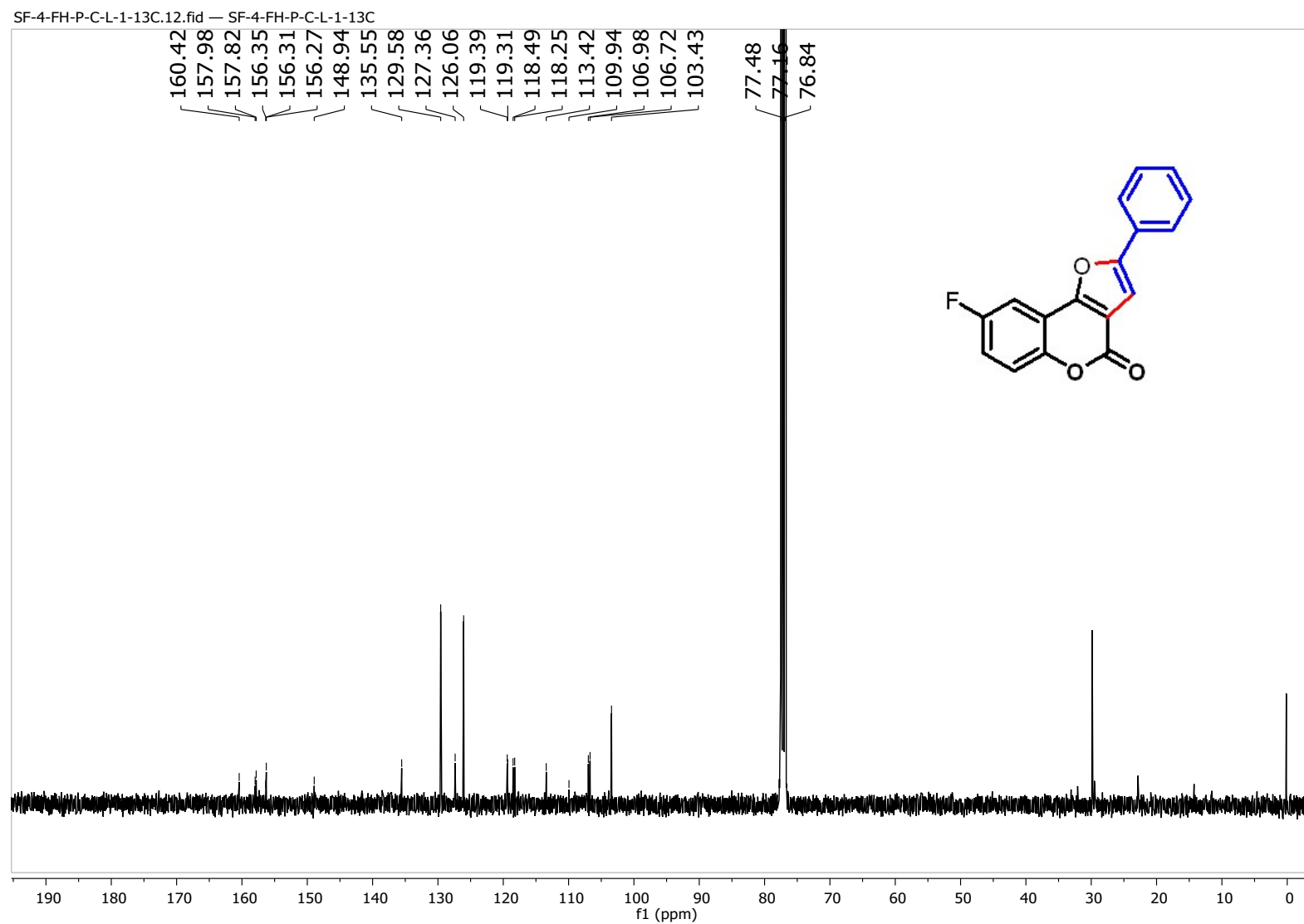
Sample Name	SF-PA-3BR-E3	Position	P2-C9	Instrument Name	Instrument 1
User Name		Inj Vol	10	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF-PA-3BR-E3_009.d
ACQ Method	FULL SCAN-POSITIVE.m	Comment		Acquired Time	30-04-2022 00:29:51 (UTC+05:30)



¹H NMR Spectrum of 8-Fluoro-2-phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3u)

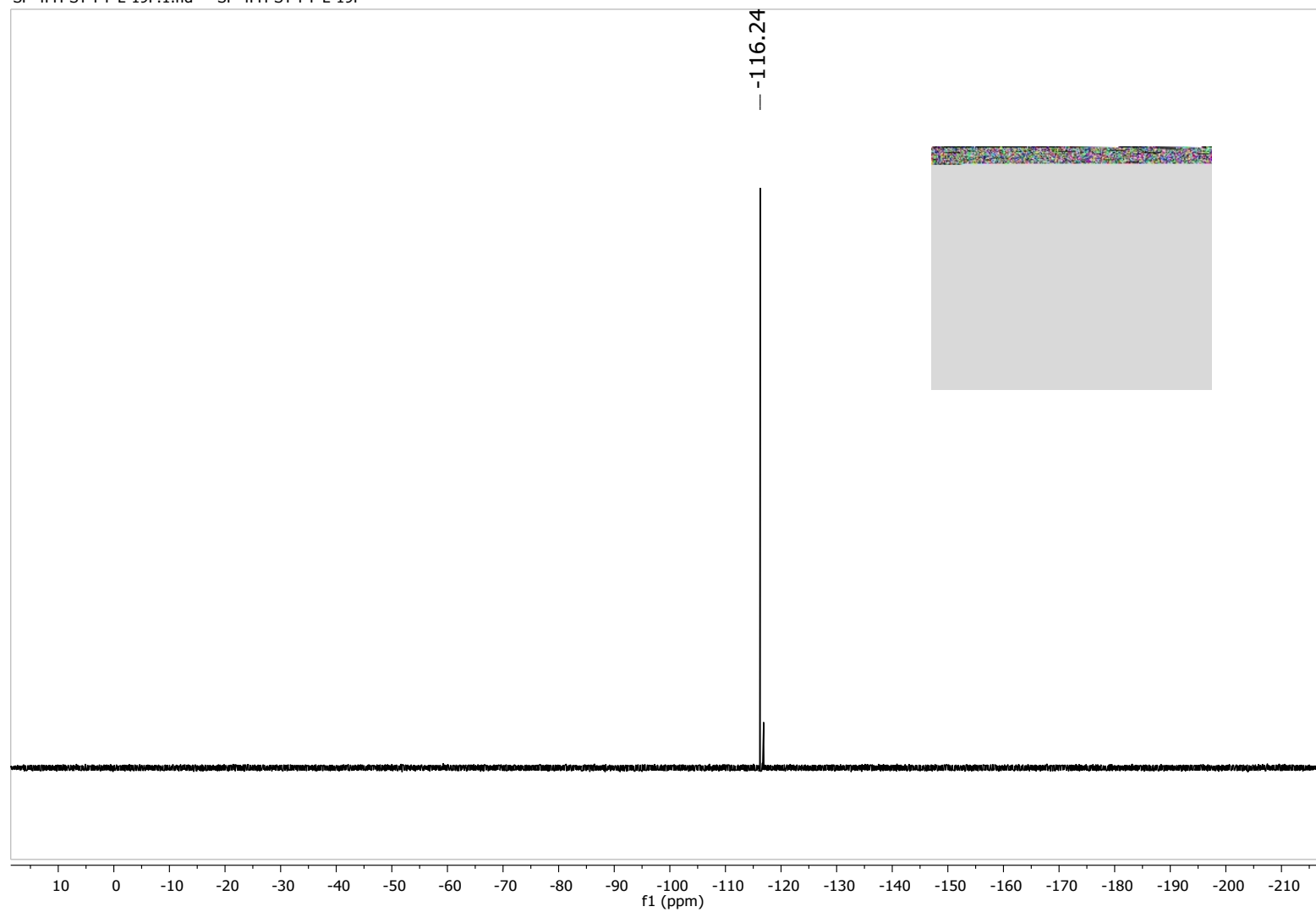


¹³C NMR Spectrum of 8-Fluoro-2-phenyl-4H-furo[3,2-c]chromen-4-one (3u)



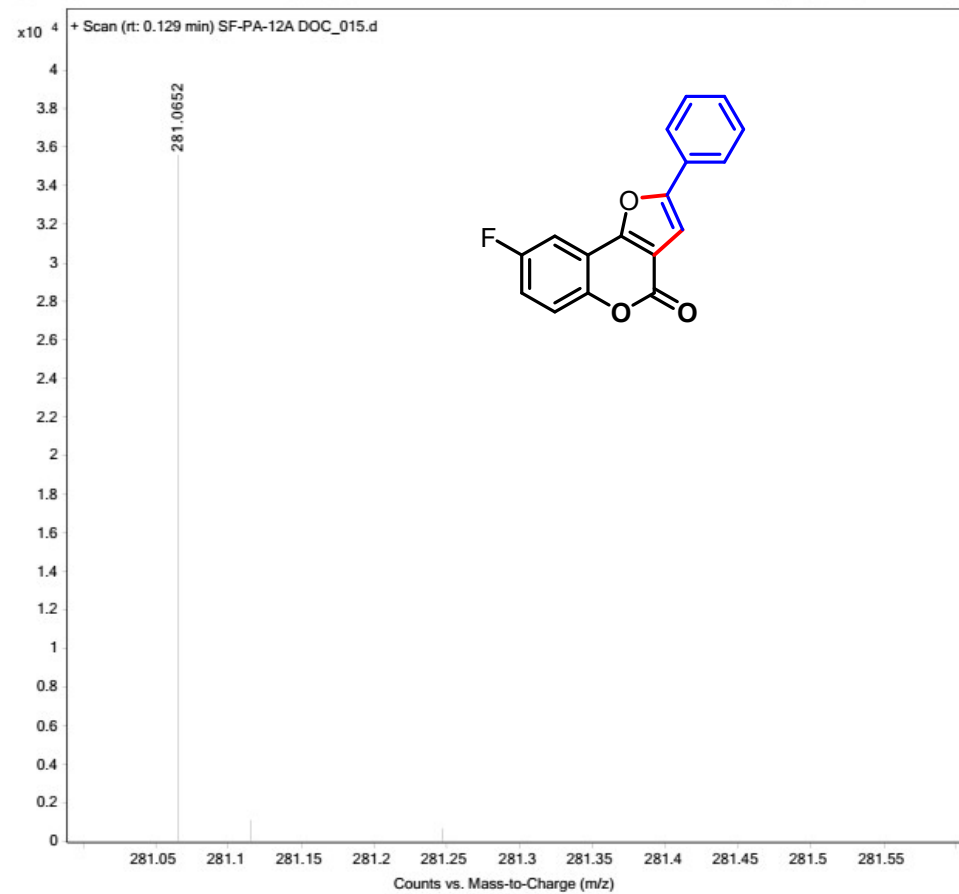
¹⁹F NMR Spectrum of 8-Fluoro-2-phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3u)

SF-4FH-ST-PT-L-19F.1.fid — SF-4FH-ST-PT-L-19F

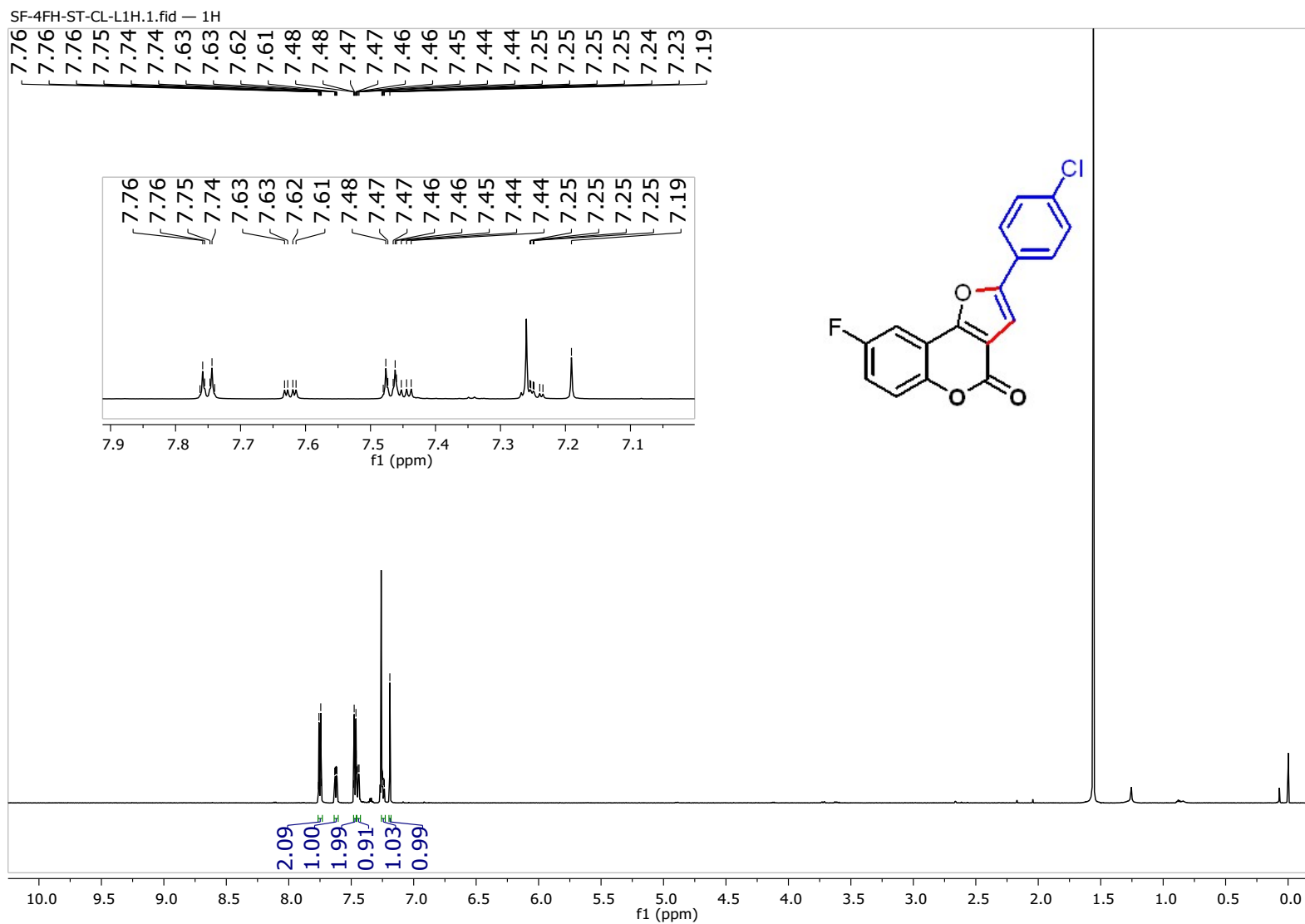


HRMS Spectrum of 8-Fluoro-2-phenyl-4*H*-furo[3,2-*c*]chromen-4-one (3u)

Sample Name	SF-PA-12A DOC	Position	P2-D6	Instrument Name	Instrument 1
User Name		Inj Vol	10	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF-PA-12A DOC_015.d
ACQ Method	FULL SCAN-POSITIVE.m	Comment		Acquired Time	30-04-2022 00:40:58 (UTC+05:30)

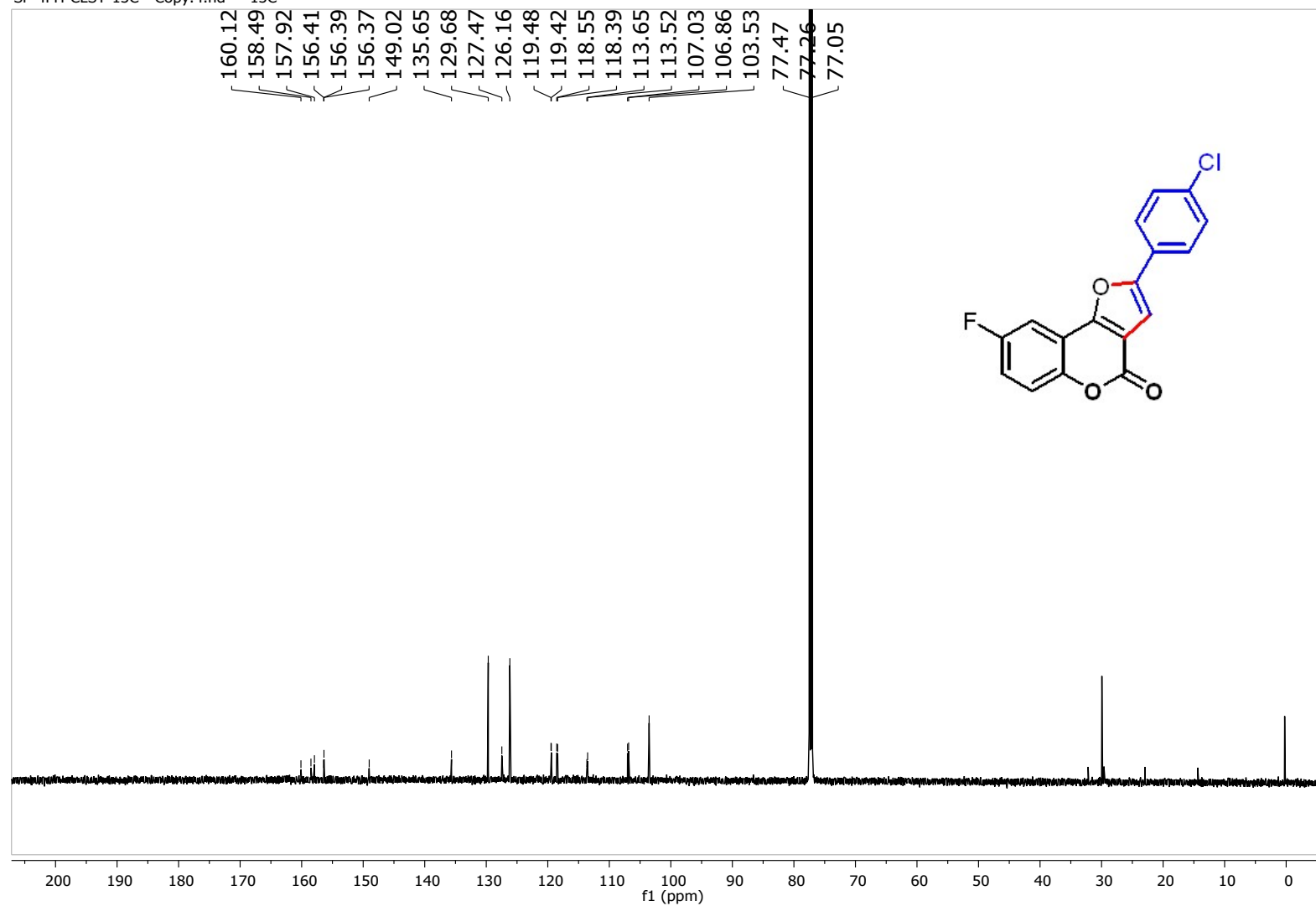


¹H NMR Spectrum of 2-(4-Chlorophenyl)-8-fluoro-4H-furo[3,2-c]chromen-4-one (3v)



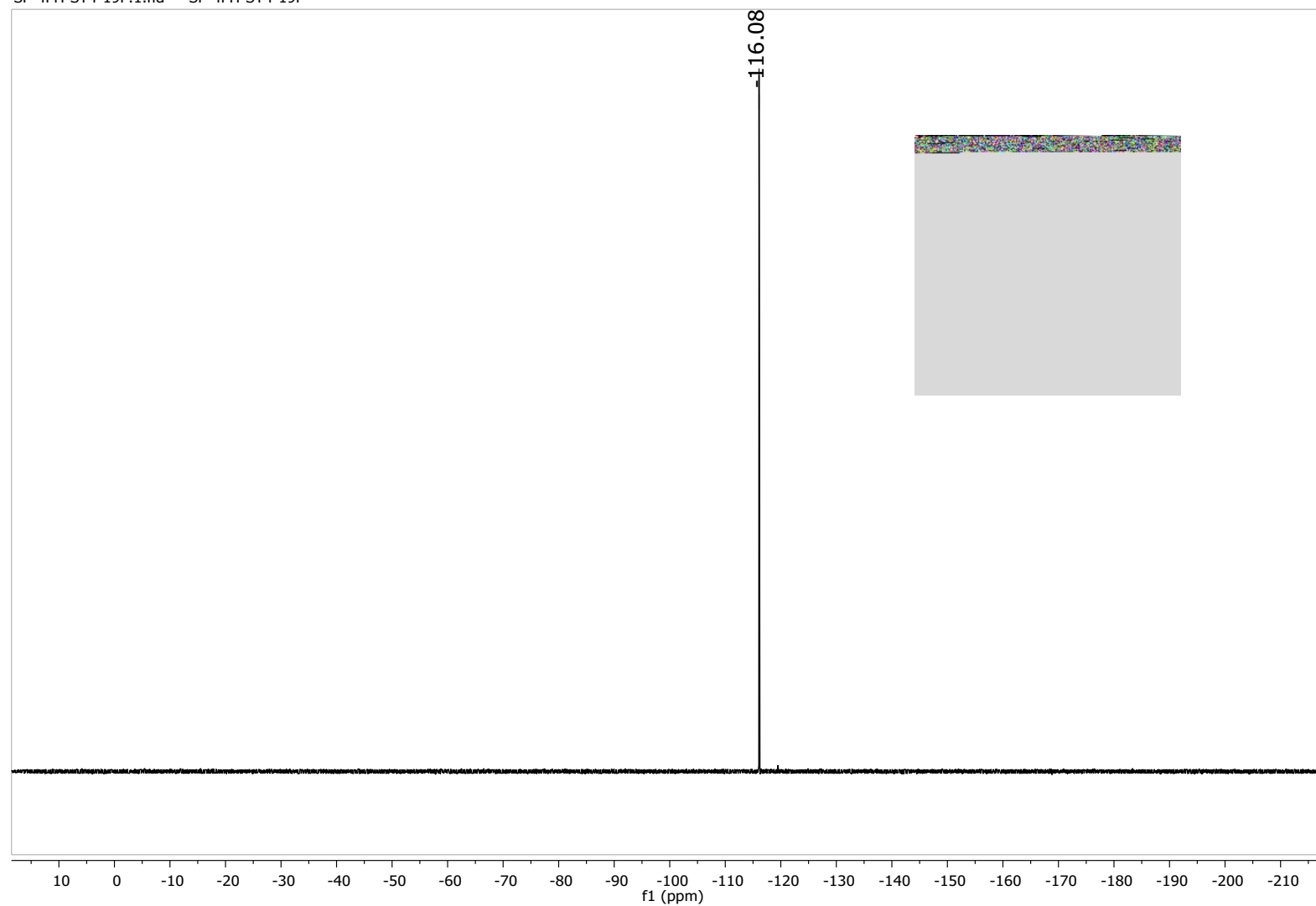
¹³C NMR Spectrum of 2-(4-Chlorophenyl)-8-fluoro-4H-furo[3,2-c]chromen-4-one (3v)

SF-4FH-CLST-13C - Copy.4.fid — 13C



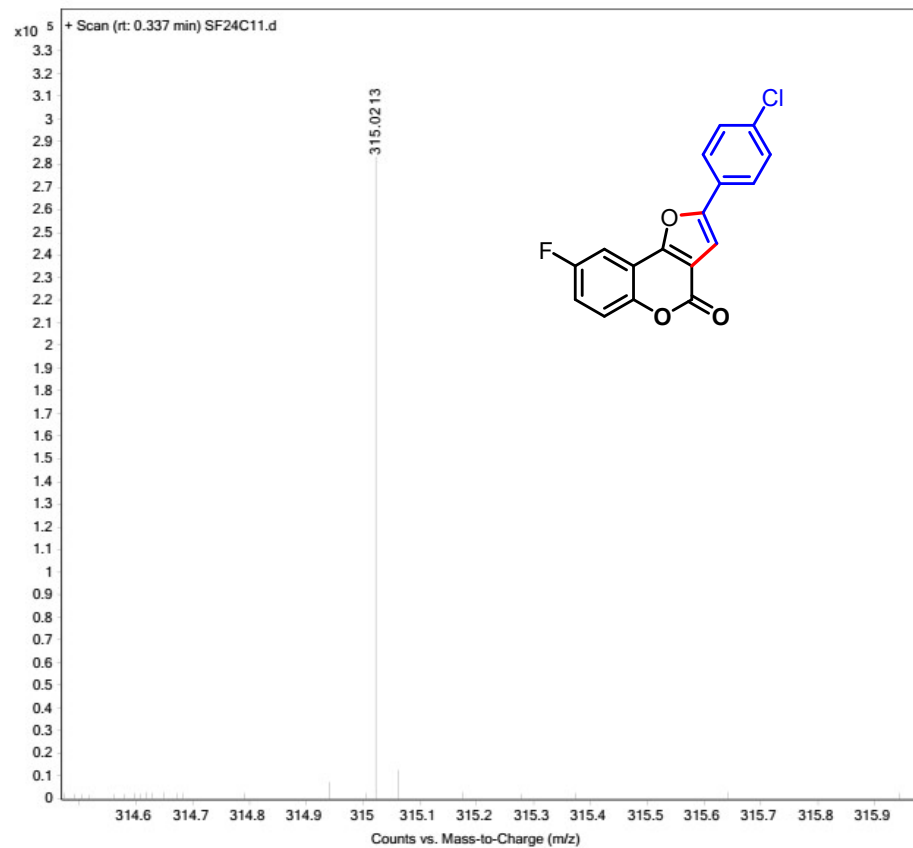
¹⁹F NMR Spectrum of 2-(4-Chlorophenyl)-8-fluoro-4*H*-furo[3,2-*c*]chromen-4-one (3v)

SF-4FH-ST4-19F.1.fid — SF-4FH-ST4-19F

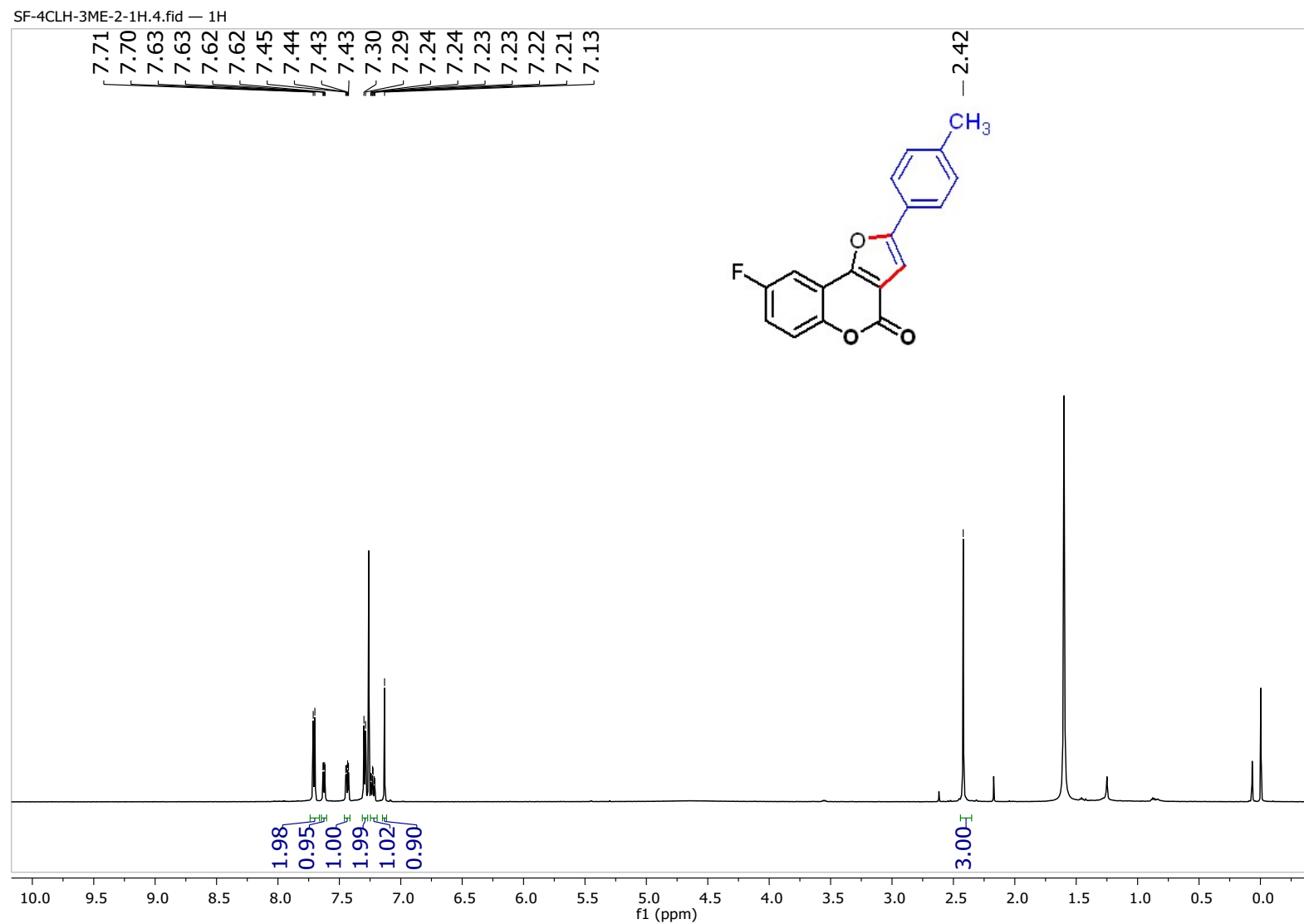


HRMS Spectrum of 2-(4-Chlorophenyl)-8-fluoro-4H-furo[3,2-c]chromen-4-one (3v)

Sample Name	Sample1	Position	P1-A1	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF24C11.d
ACQ Method	DIRECT MASS_POSITIVE_01.m	Comment		Acquired Time	18-04-2023 10:51:33 (UTC+05:30)

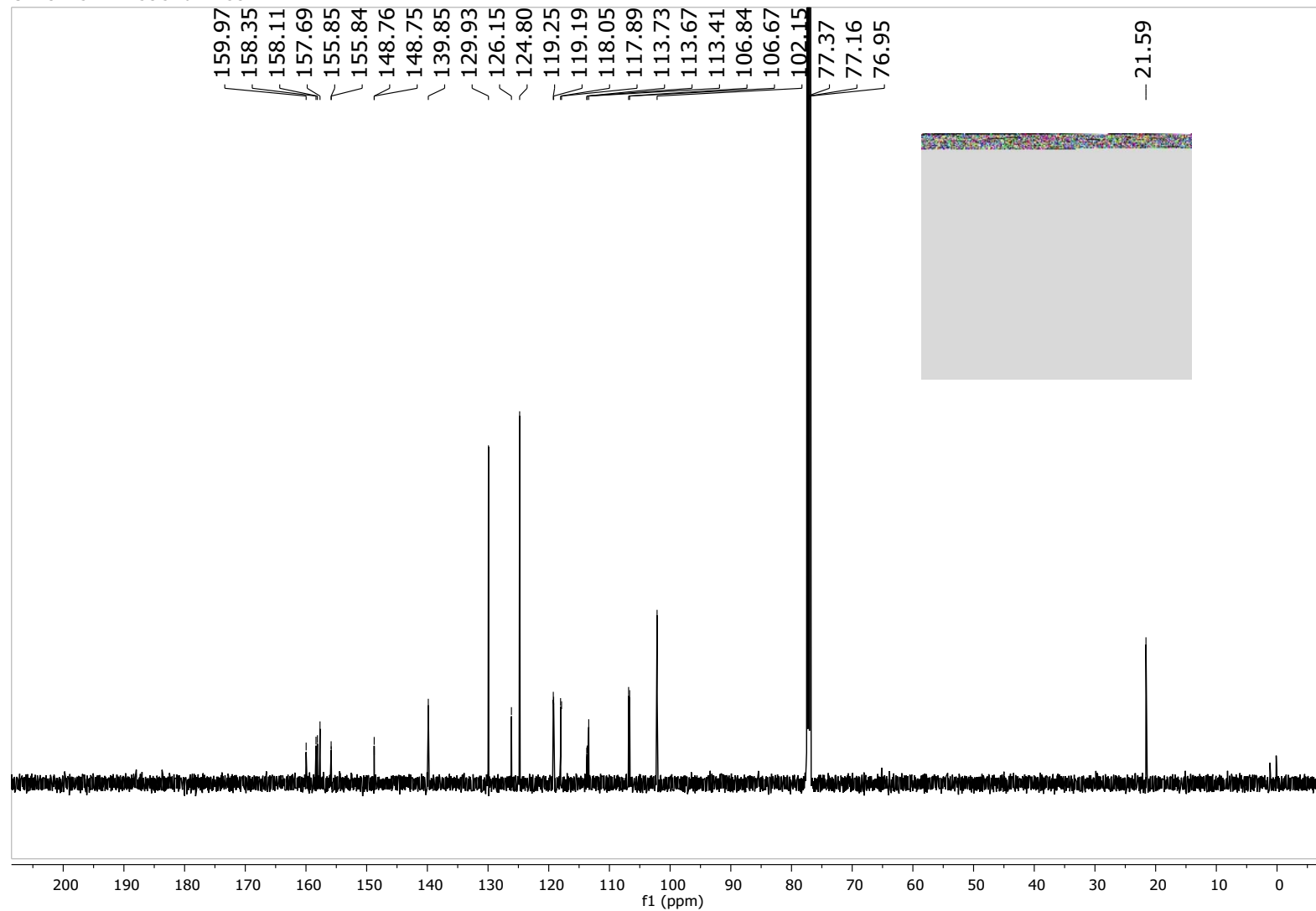


¹H NMR Spectrum of 8-Fluoro-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3w)



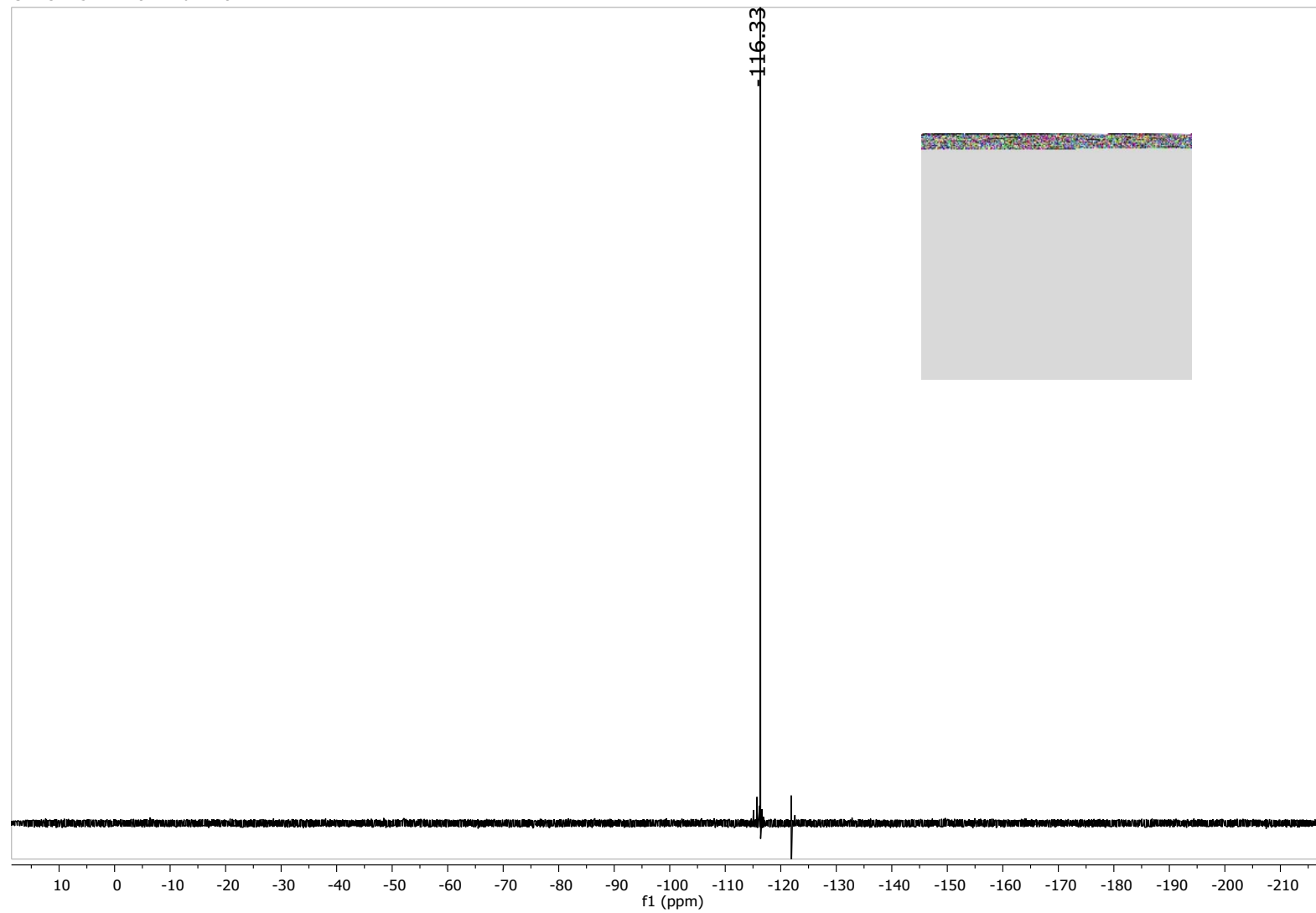
¹³C NMR Spectrum of 8-Fluoro-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3w)

SF-4CLH-3ME-2-13C.3.fid — 13C



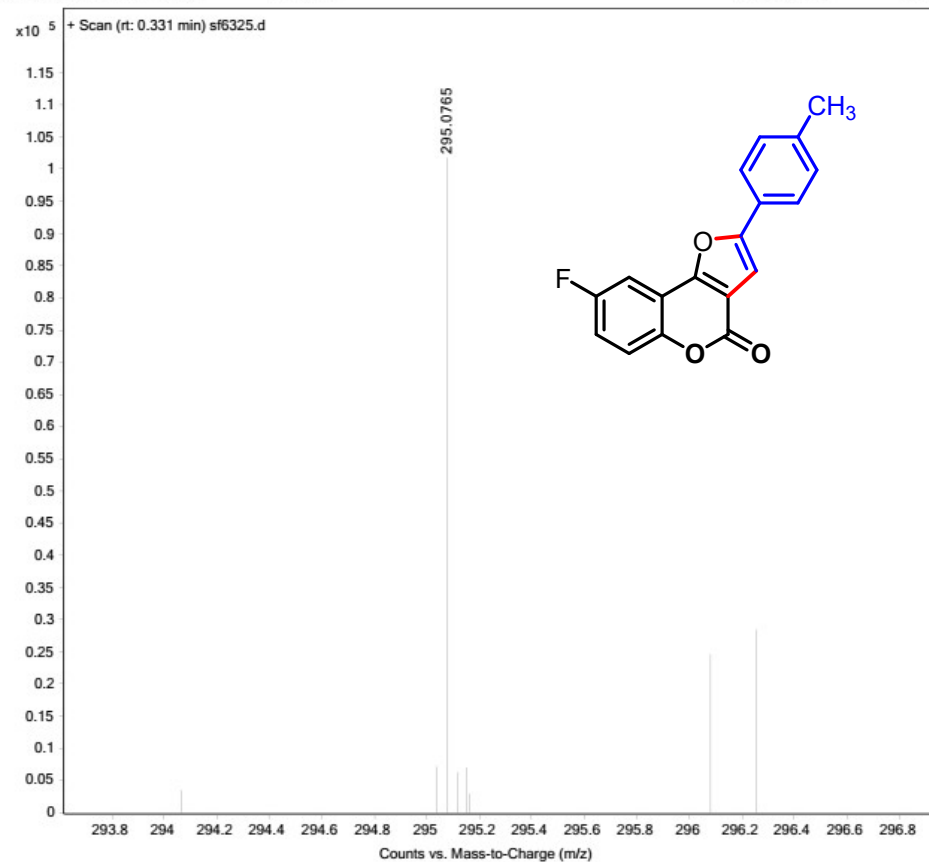
¹⁹F NMR Spectrum of 8-Fluoro-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3w)

SF-4CLH-3ME-2-19F.1.fid — 19F



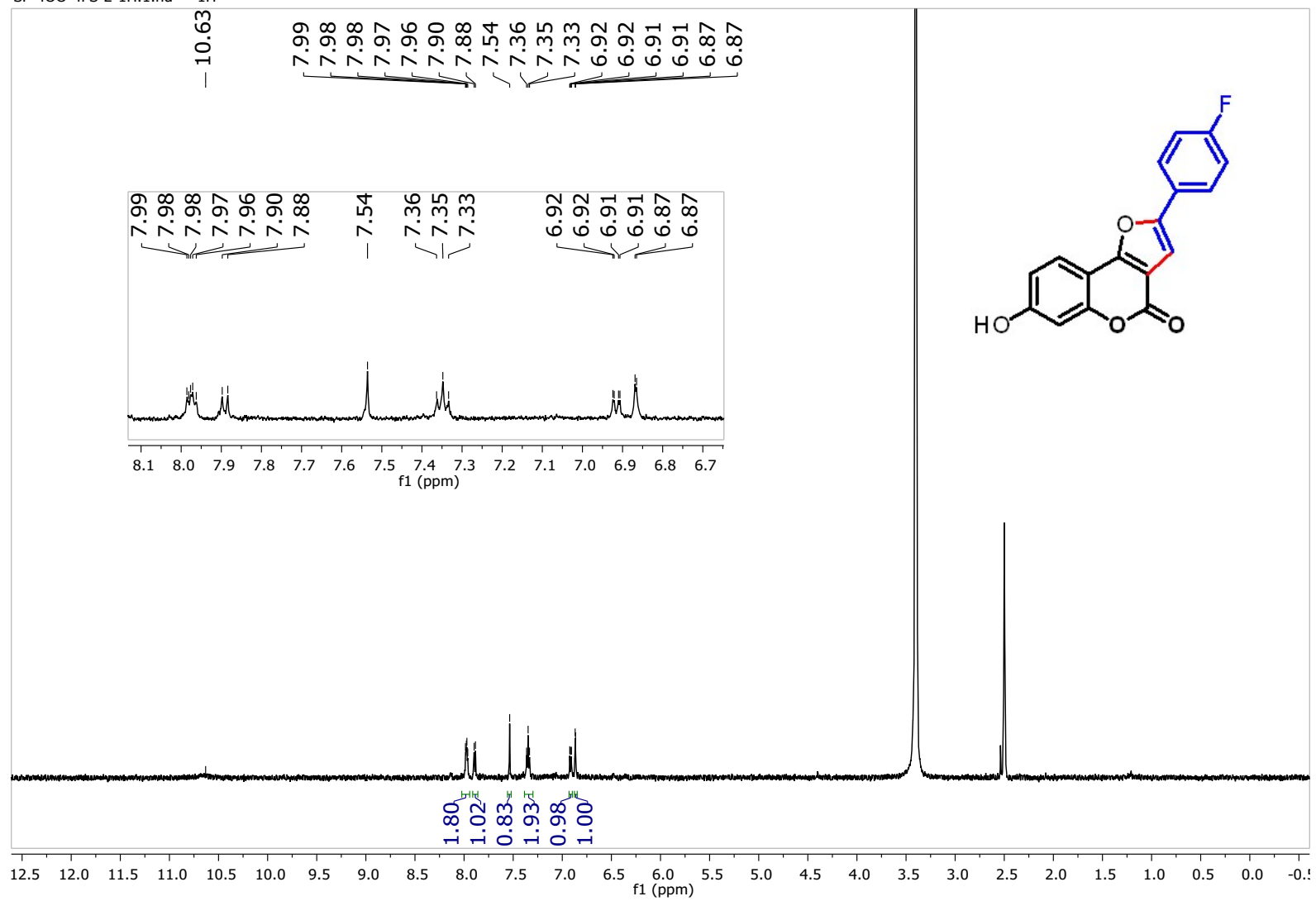
HRMS Spectrum of 8-Fluoro-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3w)

Sample Name	Sample11	Position	P1-A10	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	sf6325.d
ACQ Method	DIRECT MASS_POSITIVE_100_1500.m	Comment		Acquired Time	12-07-2023 15:14:28 (UTC+05:30)



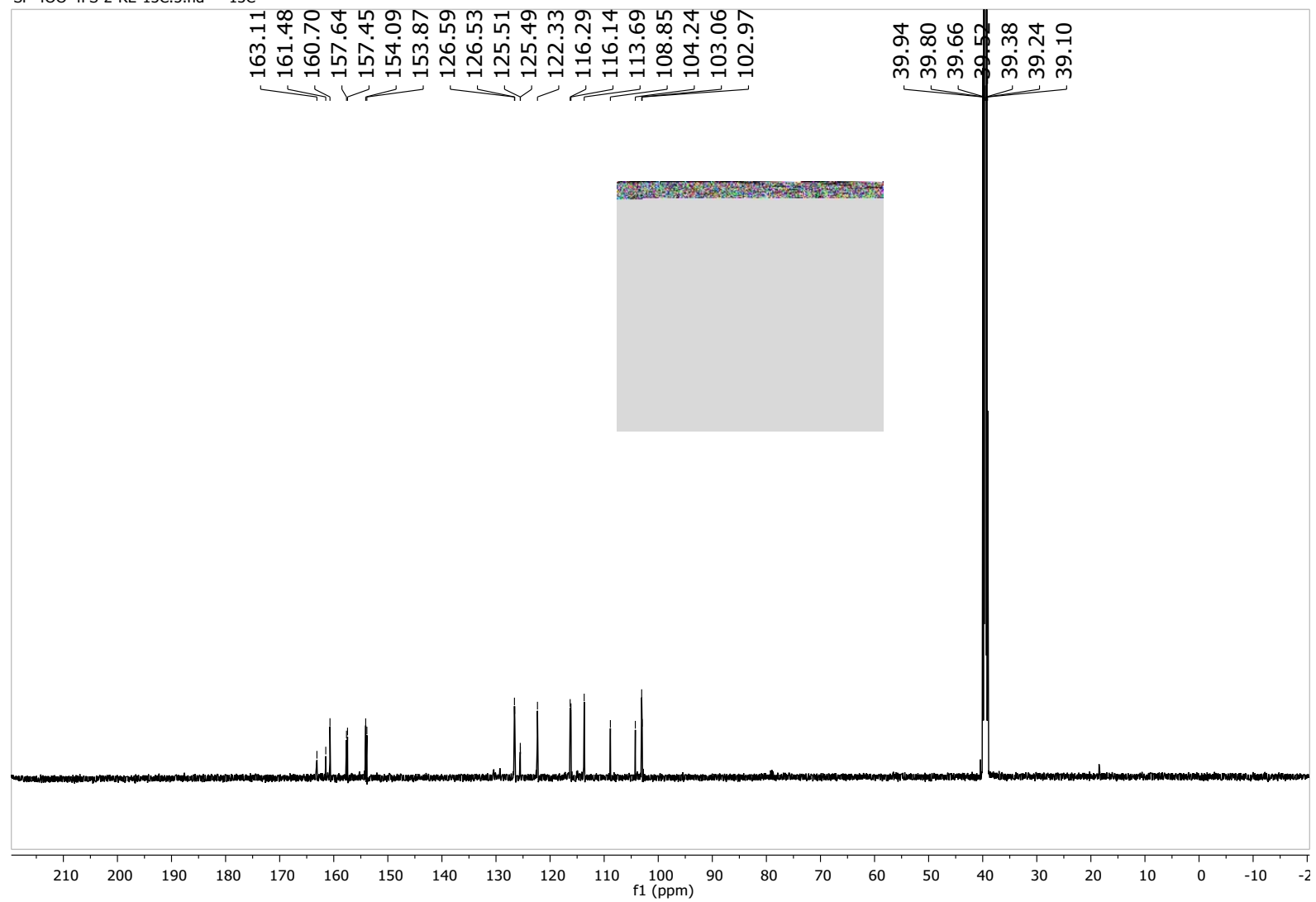
¹H NMR Spectrum of 2-(4-Fluorophenyl)-7-hydroxy-4H-furo[3,2-c]chromen-4-one (3x)

SF-400-4FS-2-1H.1.fid — 1H



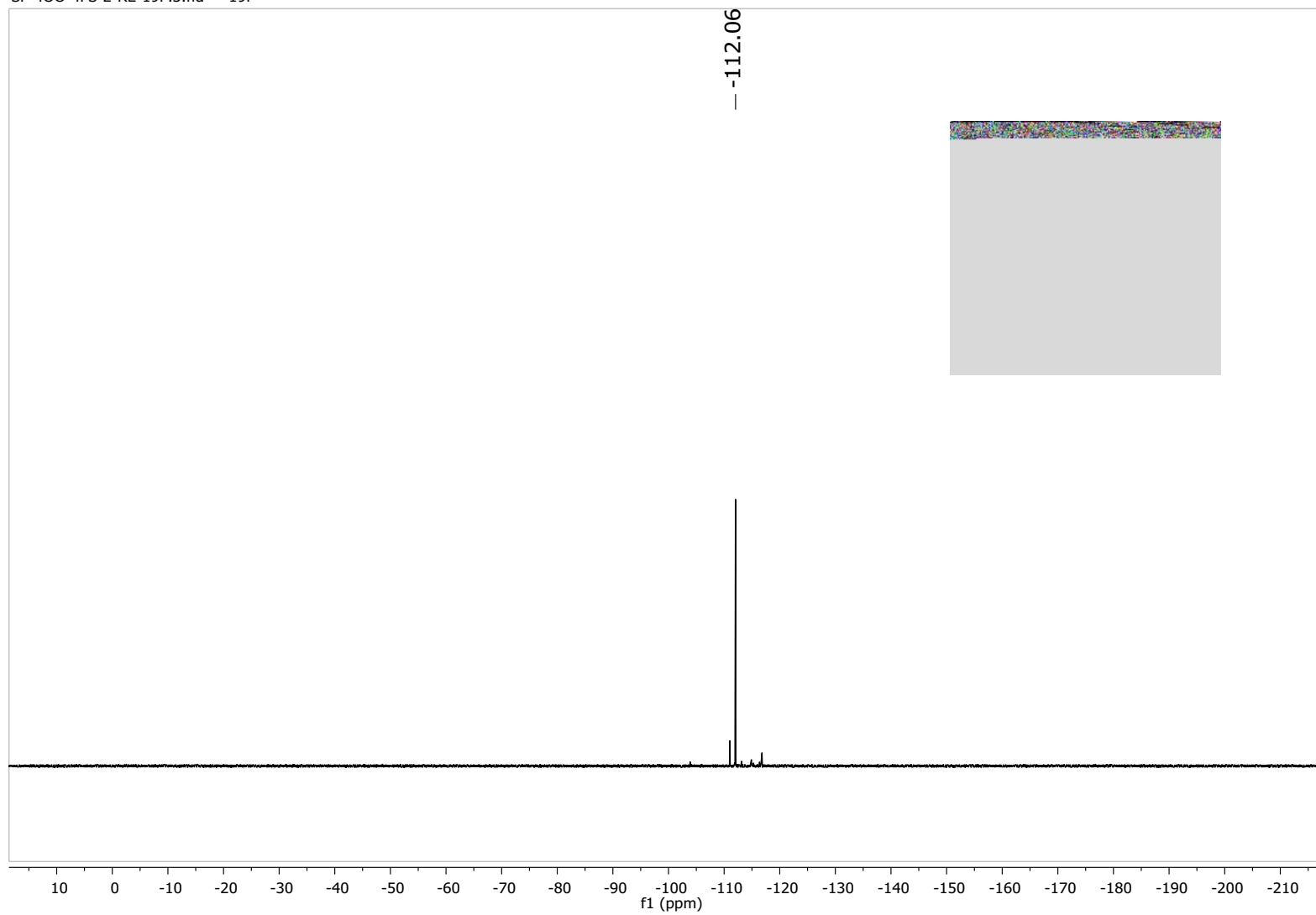
¹³C NMR Spectrum of 2-(4-Fluorophenyl)-7-hydroxy-4*H*-furo[3,2-*c*]chromen-4-one (3x)

SF-400-4FS-2-RE-13C.5.fid — 13C



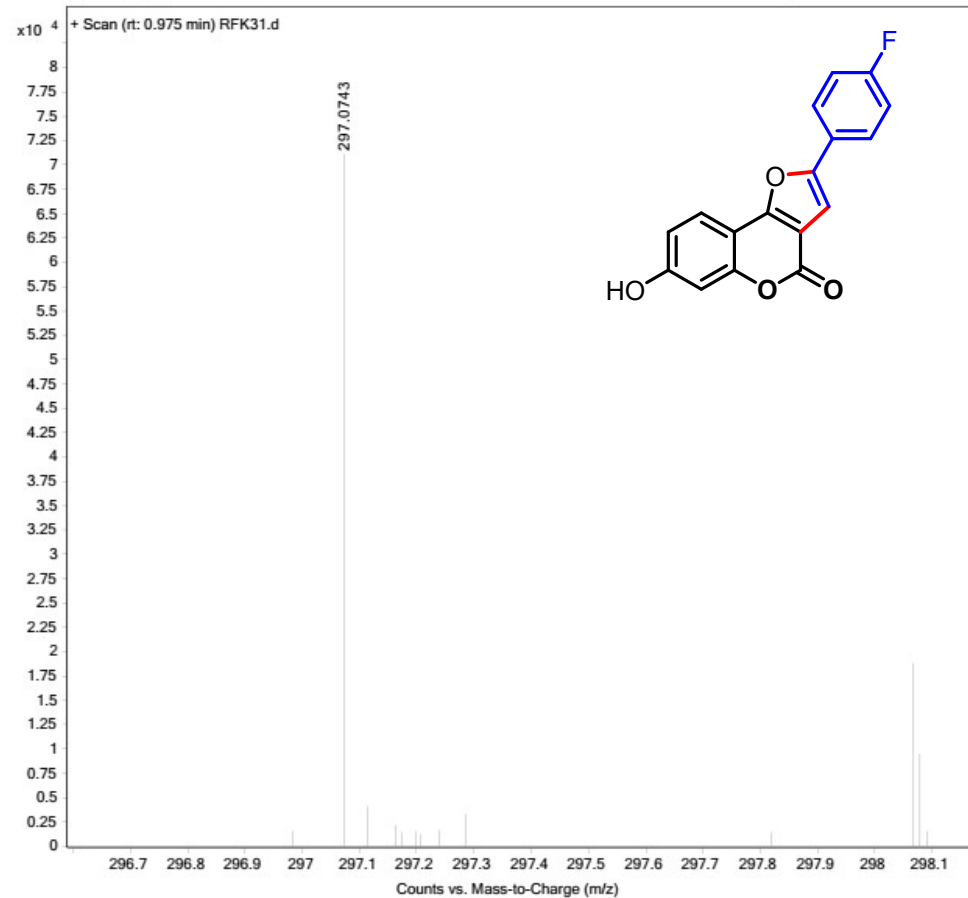
¹⁹F NMR Spectrum of 2-(4-Fluorophenyl)-7-hydroxy-4*H*-furo[3,2-*c*]chromen-4-one (3x)

SF-400-4FS-2-RE-19F.3.fid — 19F



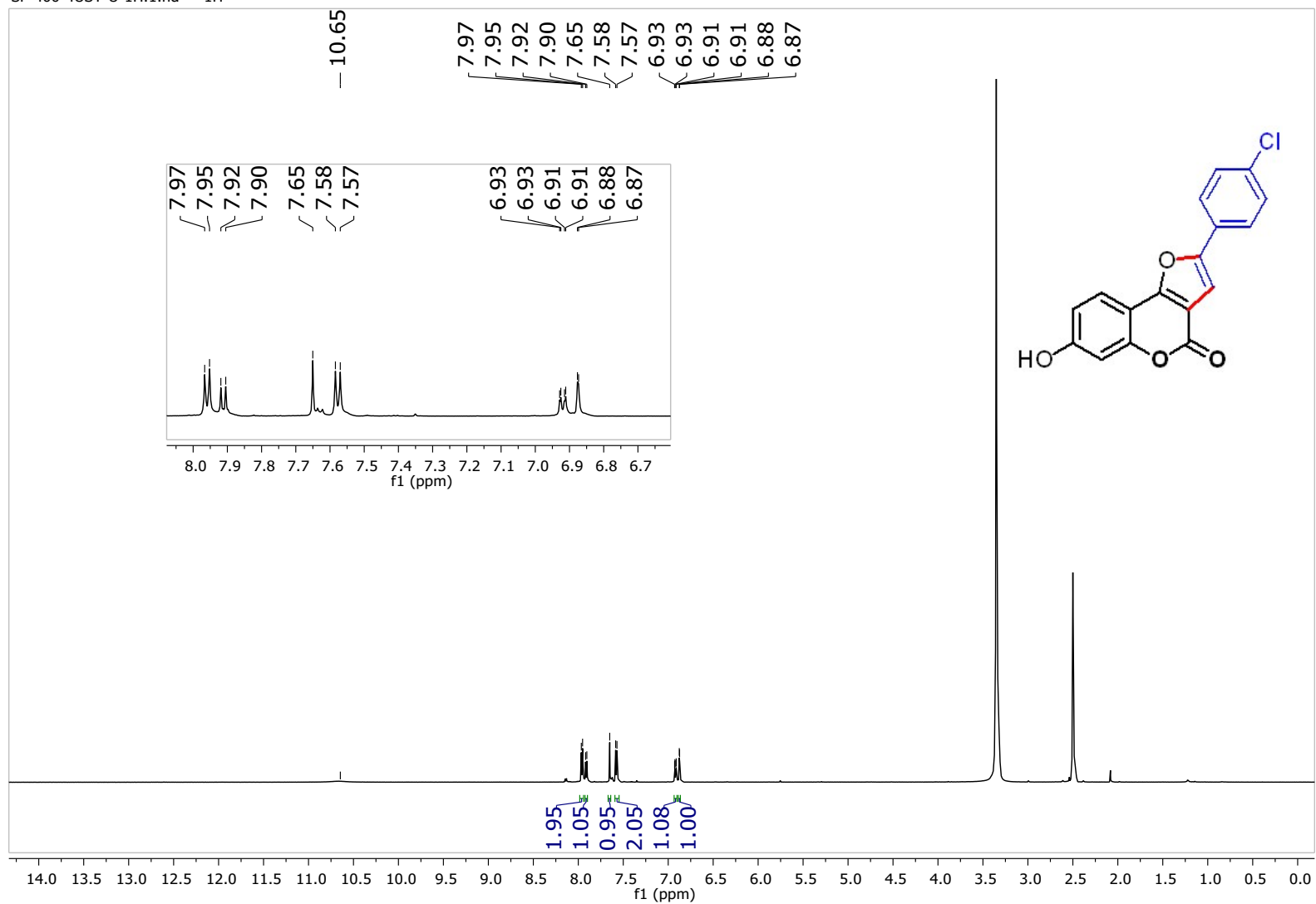
HRMS Spectrum of 2-(4-Fluorophenyl)-7-hydroxy-4H-furo[3,2-c]chromen-4-one (3x)

Sample Name		Position	P1-A11	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	RFK31.d
ACQ Method	DIRECT MASS_POSITIVE_01_1.m	Comment		Acquired Time	01-08-2023 15:46:34 (UTC+05:30)



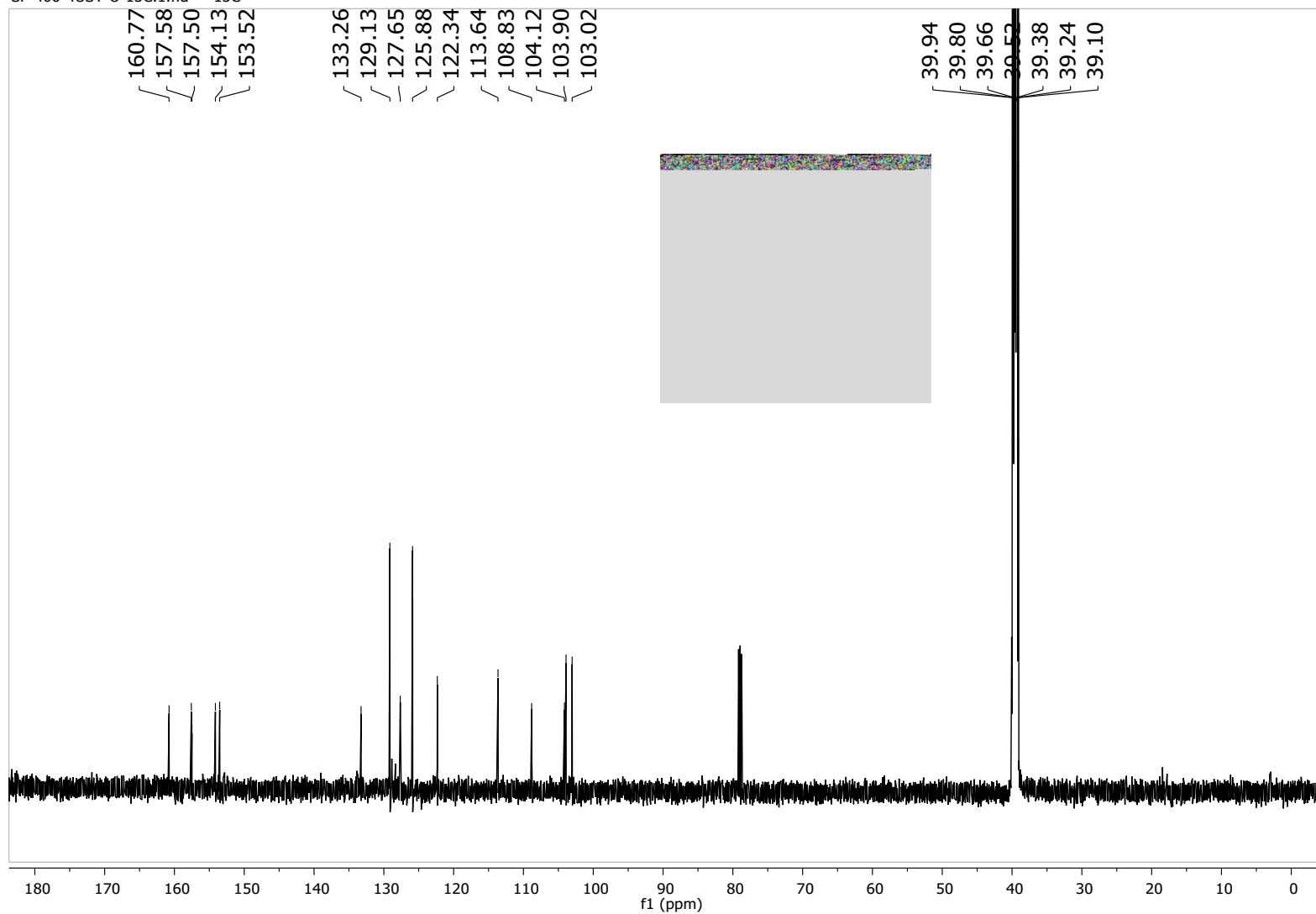
¹H NMR Spectrum of 2-(4-Chlorophenyl)-7-hydroxy-4H-furo[3,2-c]chromen-4-one (3y)

SF-400-4UST-U-1H.1.fid — 1H



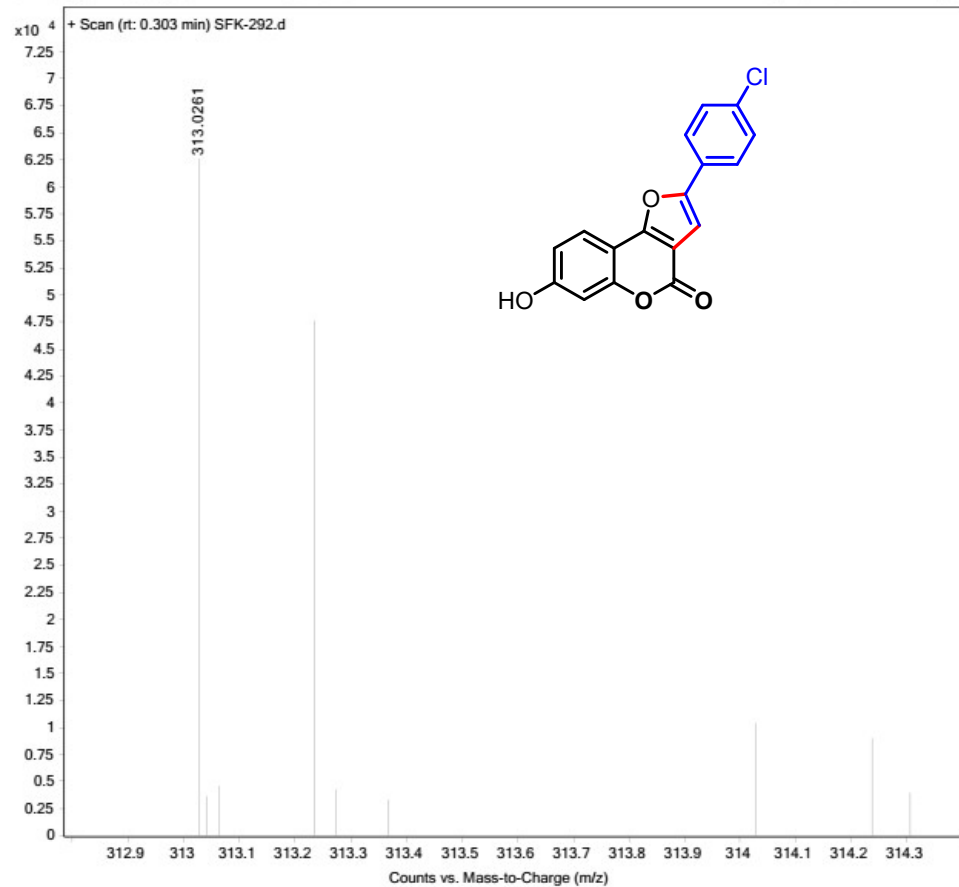
¹³C NMR Spectrum of 2-(4-Chlorophenyl)-7-hydroxy-4*H*-furo[3,2-*c*]chromen-4-one (3y)

SF-400-4UST-U-13C.1.fid - 13C



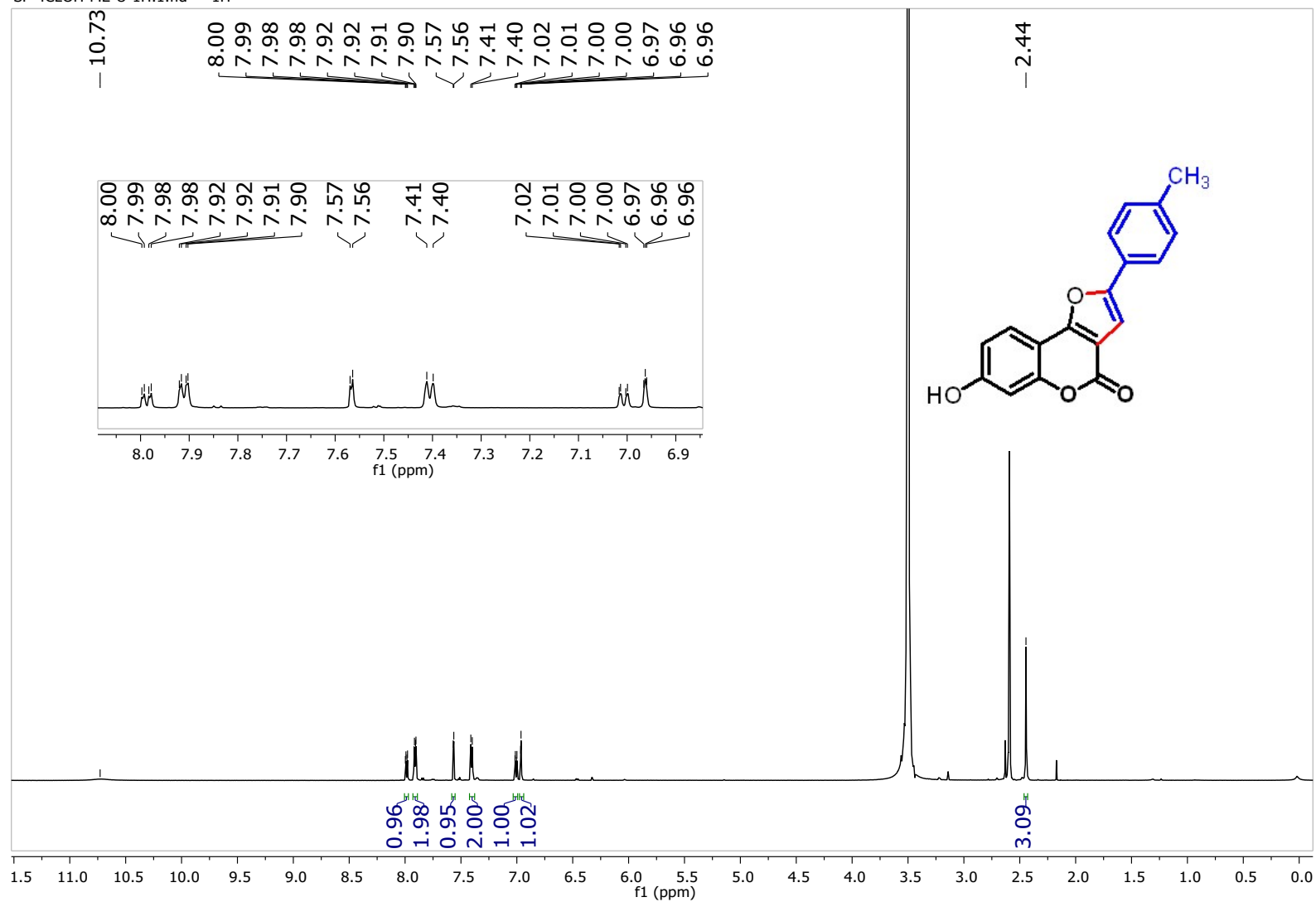
HRMS Spectrum of 2-(4-Chlorophenyl)-7-hydroxy-4*H*-furo[3,2-*c*]chromen-4-one (3y)

Sample Name	Sample27	Position	P1-C5	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SFK-292.d
ACQ Method	DIRECT MASS_POSITIVE_100_1500.m	Comment		Acquired Time	03-07-2023 10:38:16 (UTC+05:30)

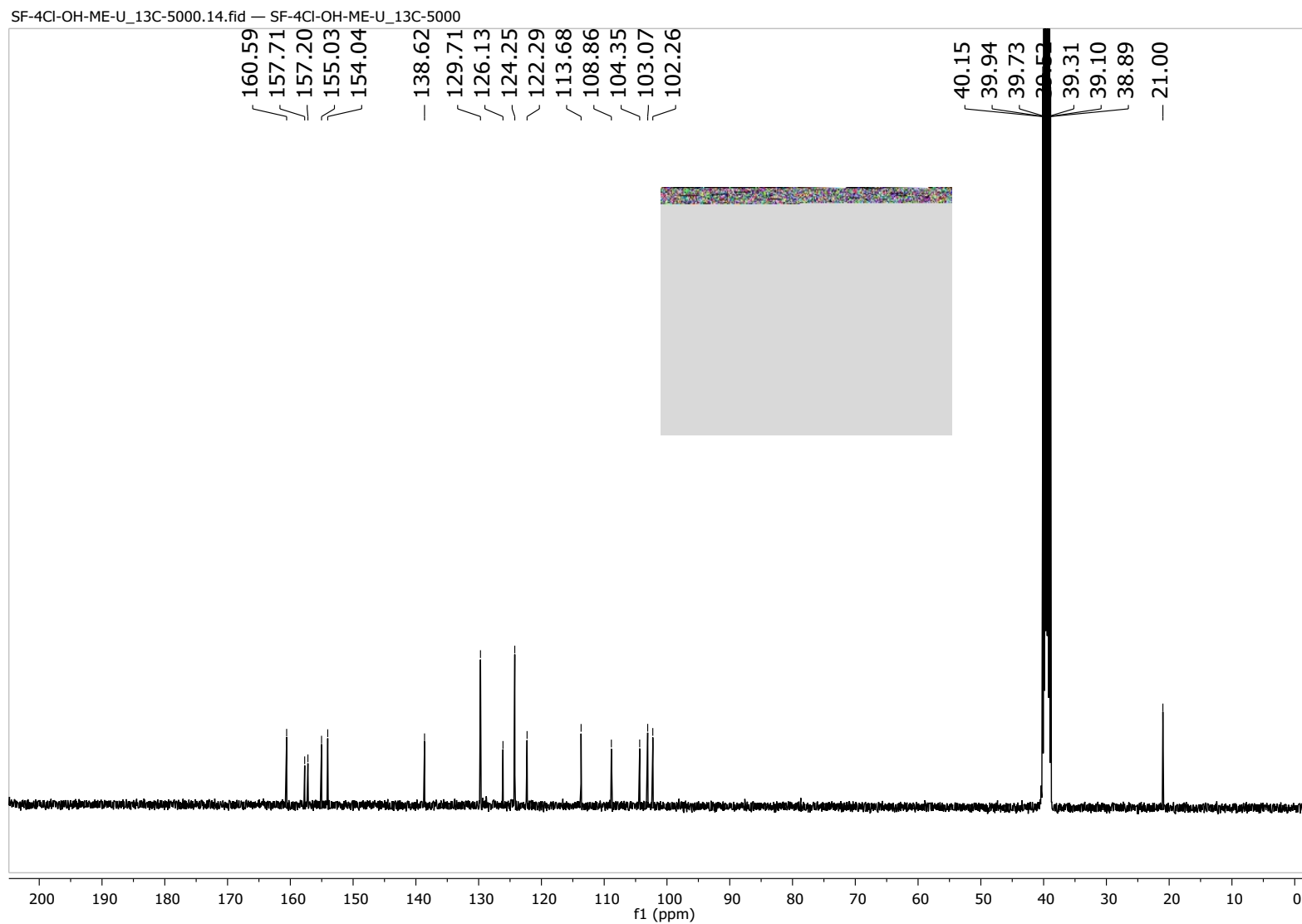


¹H NMR Spectrum of 7-Hydroxy-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3z)

SF-4CLOH-ME-U-1H.1.fid — 1H

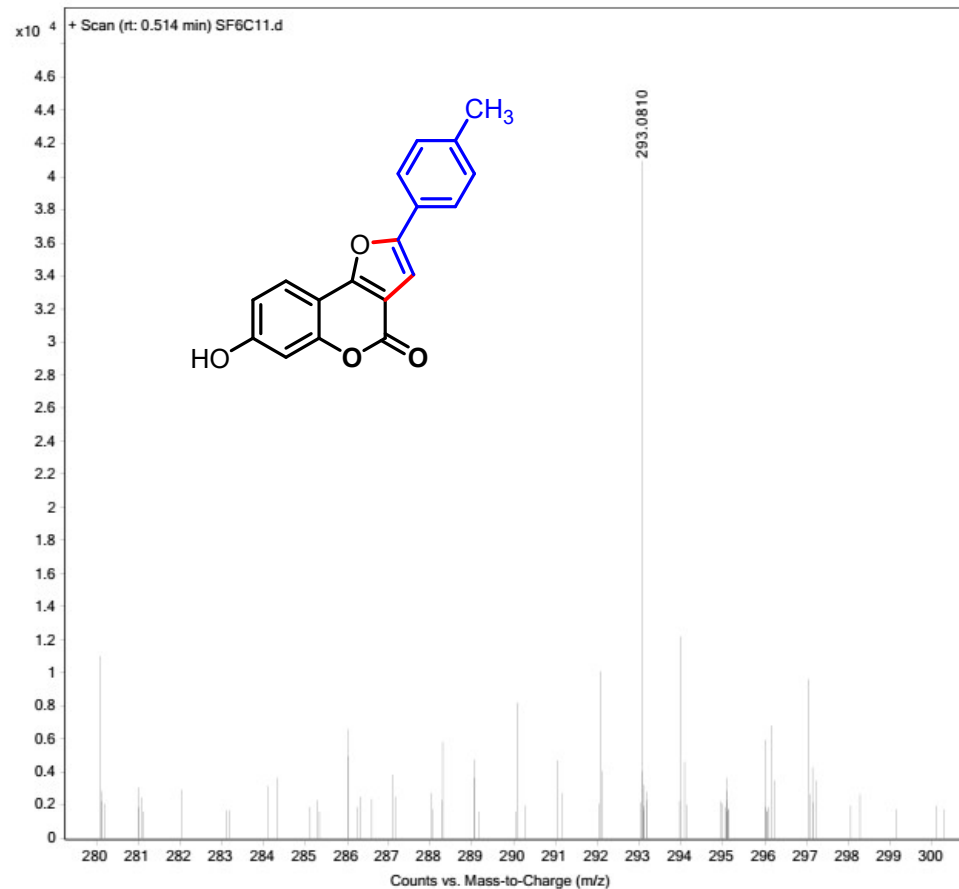


¹³C NMR Spectrum of 7-Hydroxy-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3z)

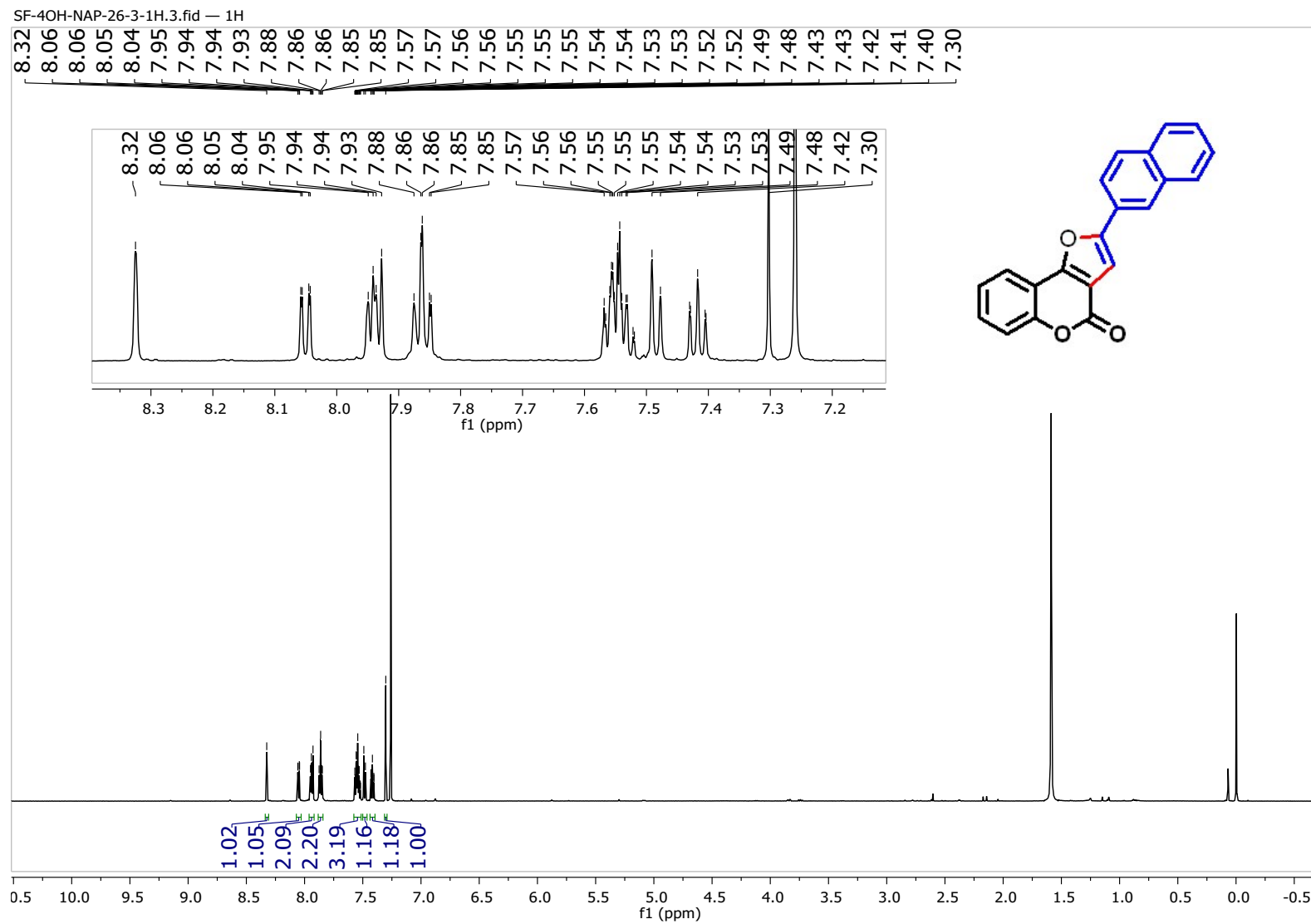


HRMS Spectrum of 7-Hydroxy-2-(*p*-tolyl)-4*H*-furo[3,2-*c*]chromen-4-one (3z)

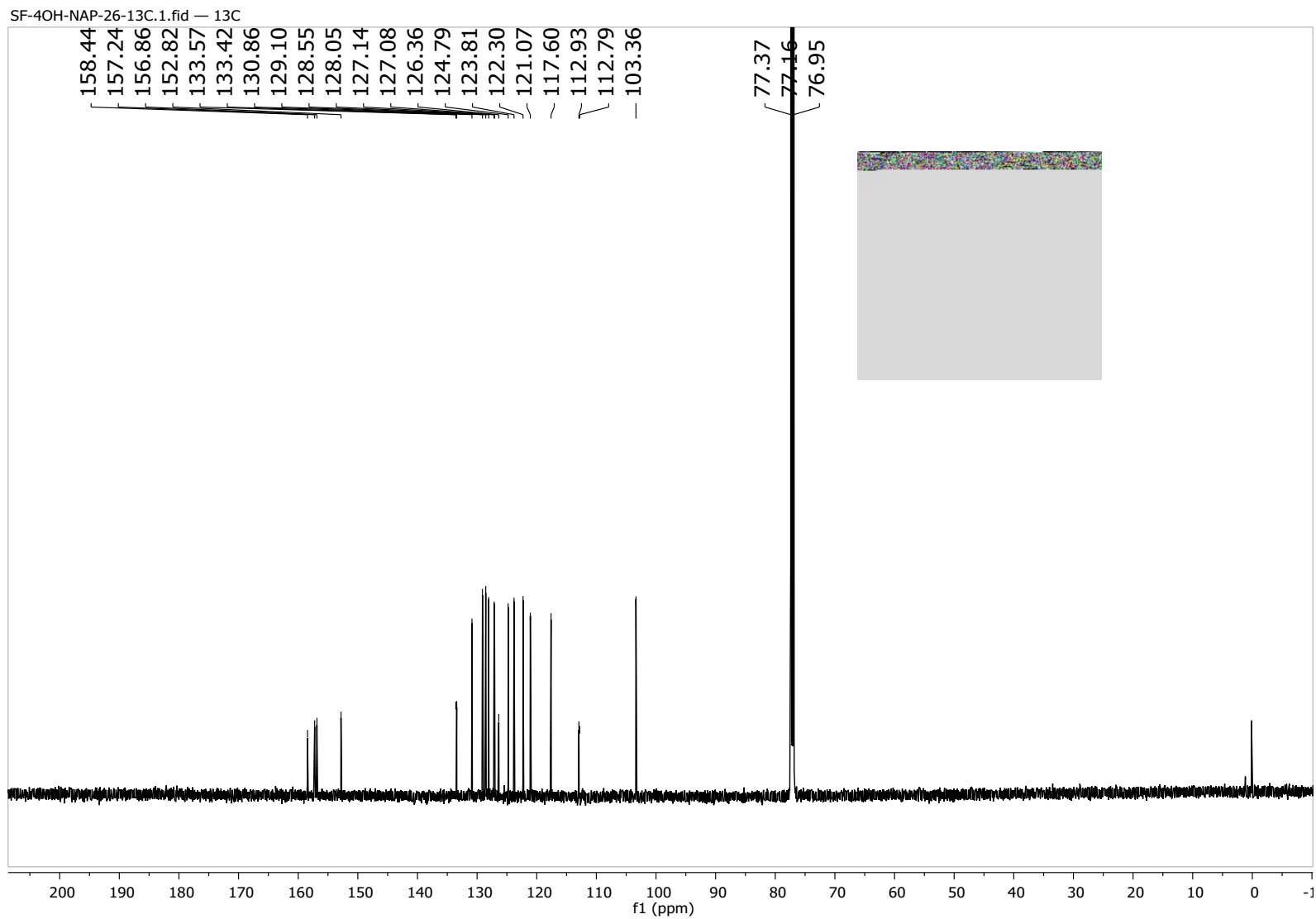
Sample Name		Position	P1-A3	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF6C11.d
ACQ Method	DIRECT MASS_POSITIVE_01_1.m	Comment		Acquired Time	18-07-2023 16:12:02 (UTC+05:30)



¹H NMR Spectrum of 2-(Naphthalen-2-yl)-4H-furo[3,2-c]chromen-4-one (4a)

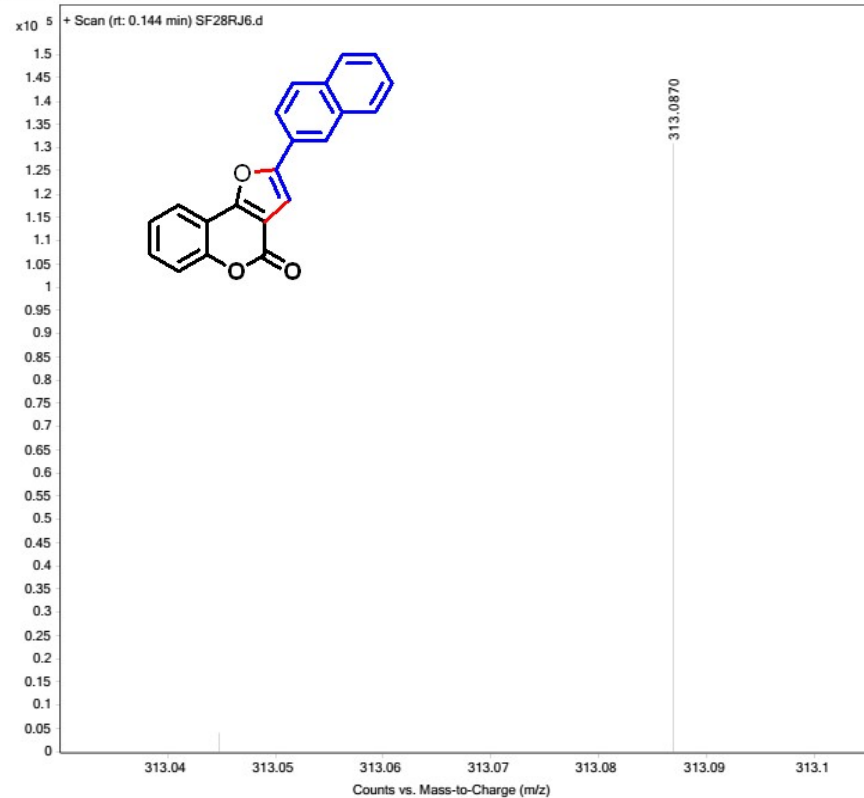


¹³C NMR Spectrum of 2-(Naphthalen-2-yl)-4*H*-furo[3,2-*c*]chromen-4-one (4a)

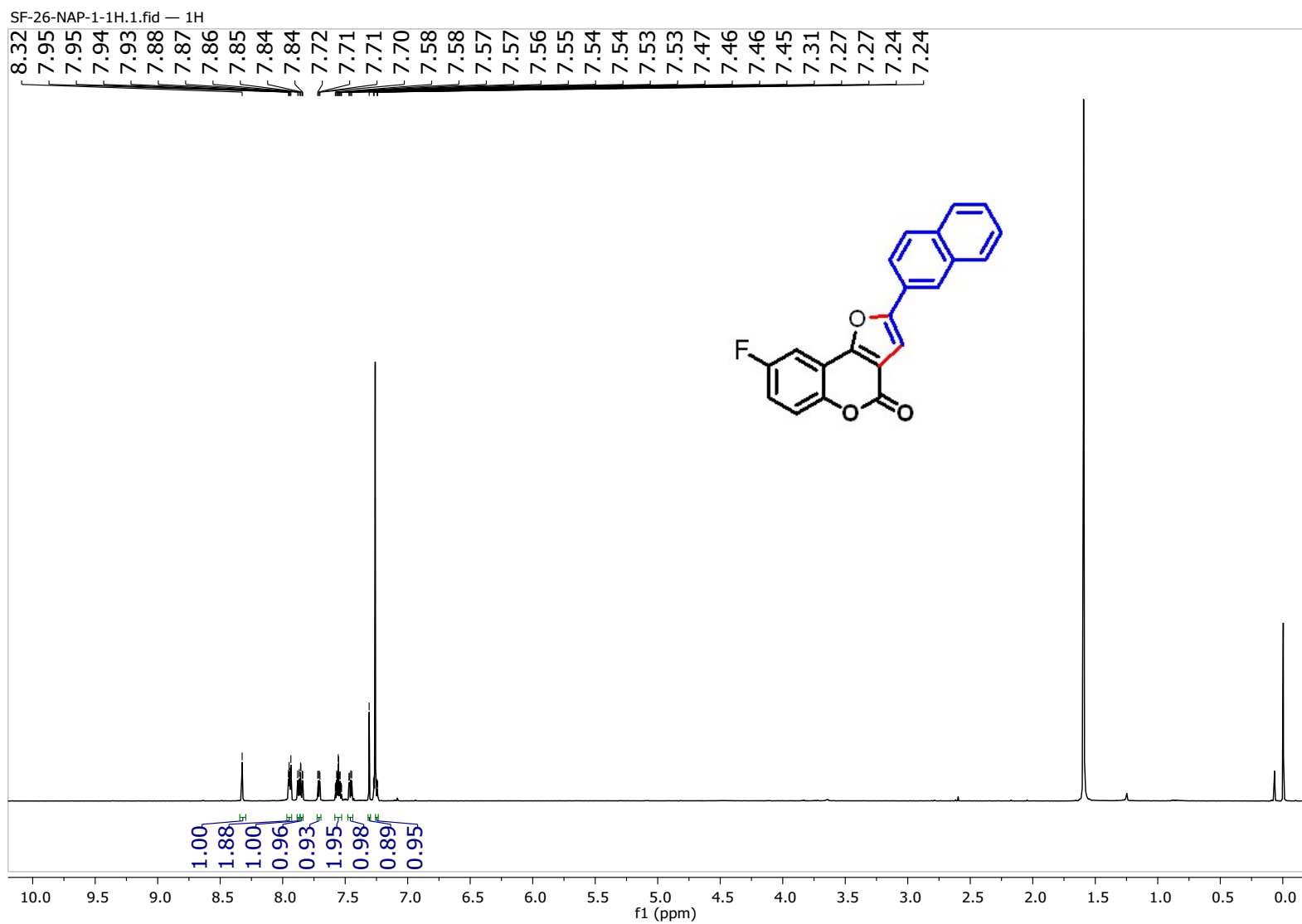


HRMS Spectrum of 2-(Naphthalen-2-yl)-4*H*-furo[3,2-*c*]chromen-4-one (4a)

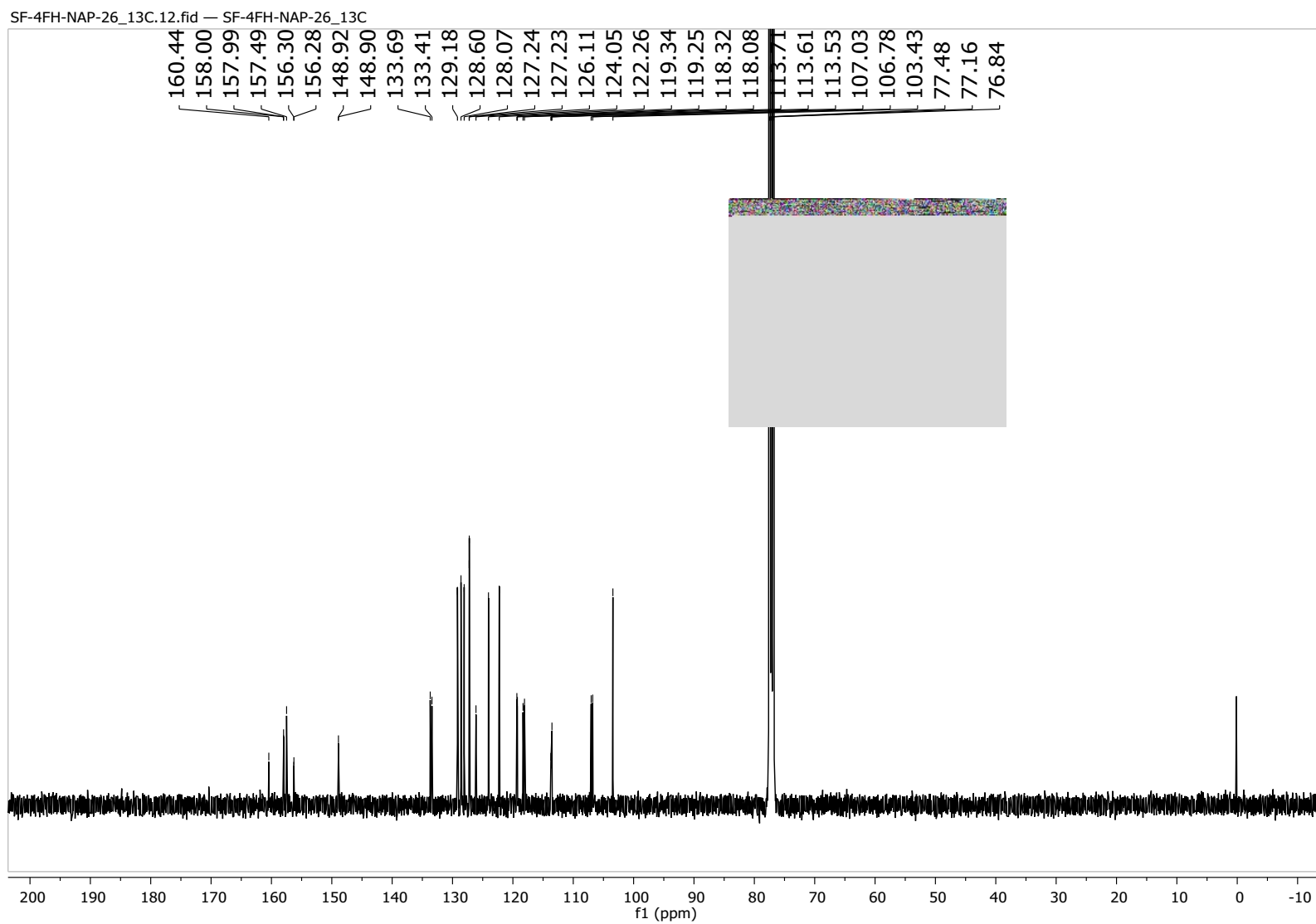
Sample Name	Sample2	Position	P1-A2	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF28RJ6.d
ACQ Method	DIRECT MASS_POSITIVE_01_1.m	Comment		Acquired Time	13-10-2023 14:48:25 (UTC+05:30)



¹H NMR Spectrum of 8-Fluoro-2-(naphthalen-2-yl)-4H-furo[3,2-c]chromen-4-one (4b)

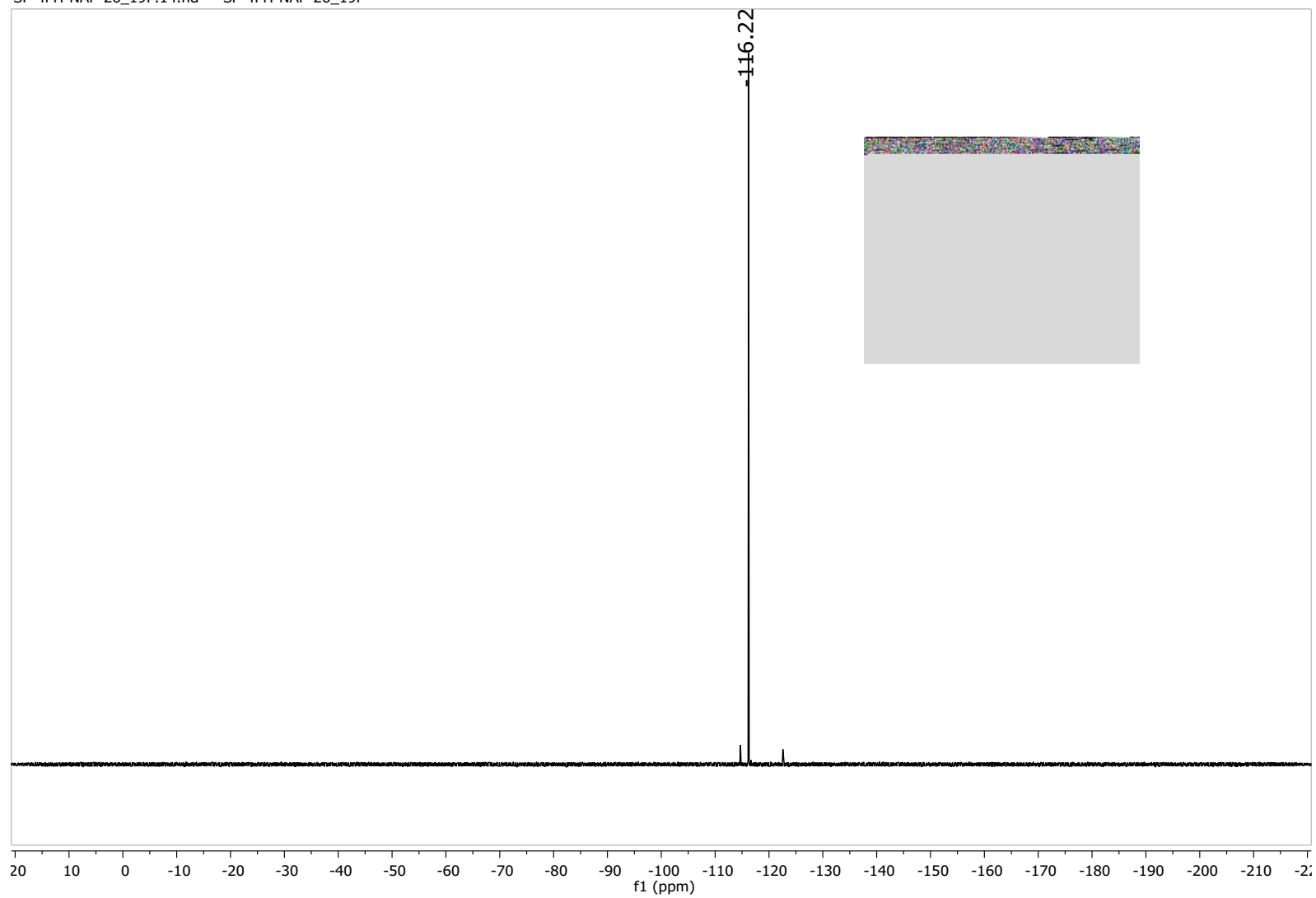


¹³C NMR Spectrum of 8-Fluoro-2-(naphthalen-2-yl)-4H-furo[3,2-c]chromen-4-one (4b)



¹⁹F NMR Spectrum of 8-Fluoro-2-(naphthalen-2-yl)-4H-furo[3,2-c]chromen-4-one (4b)

SF-4FH-NAP-26_19F.14.fid — SF-4FH-NAP-26_19F



HRMS Spectrum of 8-Fluoro-2-(naphthalen-2-yl)-4H-furo[3,2-c]chromen-4-one (4b)

Sample Name	Sample13	Position	P1-B1	Instrument Name	QTOF
User Name	SYSTEM (SYSTEM)	Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	SF26RJ-2.d
ACQ Method	DIRECT MASS_POSITIVE_01_1.m	Comment		Acquired Time	17-10-2023 10:33:40 (UTC+05:30)

