

Electronic Supplementary Information

Core Structure-Activity Relationship Studies of 5,7,20-Trimethylsilylbins in Prostate Cancer Cell Models

Sitong Wu ¹, Guanglin Chen ¹, Eva Y. Chen ¹, Leyla S. Farshidpour ¹, Qiang Zhang ², Guangdi Wang ² and Qiao-Hong Chen ^{1,*}

¹ Department of Chemistry and Biochemistry, California State University, Fresno, 2555 E. San Ramon Avenue, M/S SB70, Fresno, CA 93740, USA

² Department of Chemistry and RCMC Cancer Research Center, Xavier University of Louisiana, 1 Drexel Drive, New Orleans, LA 70125, USA

* Correspondence: qchen@csufresno.edu

List of Contents:

Figure S1: ¹ H NMR spectrum of 10 in CDCl ₃	S7
Figure S2: ¹³ C NMR spectrum of 10 in CDCl ₃	S8
Figure S3: High resolution mass spectrum of 10	S9
Figure S4: HPLC chromatogram of 10	S10
Figure S5: ¹ H NMR spectrum of 11 in CDCl ₃	S11
Figure S6: ¹³ C NMR spectrum of 11 in CDCl ₃	S12
Figure S7: High resolution mass spectrum of 11	S13
Figure S8: HPLC chromatogram of 11	S14
Figure S9: ¹ H NMR spectrum of 12 in CDCl ₃	S15
Figure S10: ¹³ C NMR spectrum of 12 in CDCl ₃	S16
Figure S11: High resolution mass spectrum of 12	S17
Figure S12: HPLC chromatogram of 12	S18
Figure S13: ¹ H NMR spectrum of 13 in CDCl ₃	S19
Figure S14: ¹³ C NMR spectrum of 13 in CDCl ₃	S20
Figure S15: High resolution mass spectrum of 13	S21
Figure S16: HPLC chromatogram of 13	S22
Figure S17: ¹ H NMR spectrum of 14 in CDCl ₃	S23
Figure S18: ¹³ C NMR spectrum of 14 in CDCl ₃	S24
Figure S19: High resolution mass spectrum of 14	S25
Figure S20: HPLC chromatogram of 14	S26

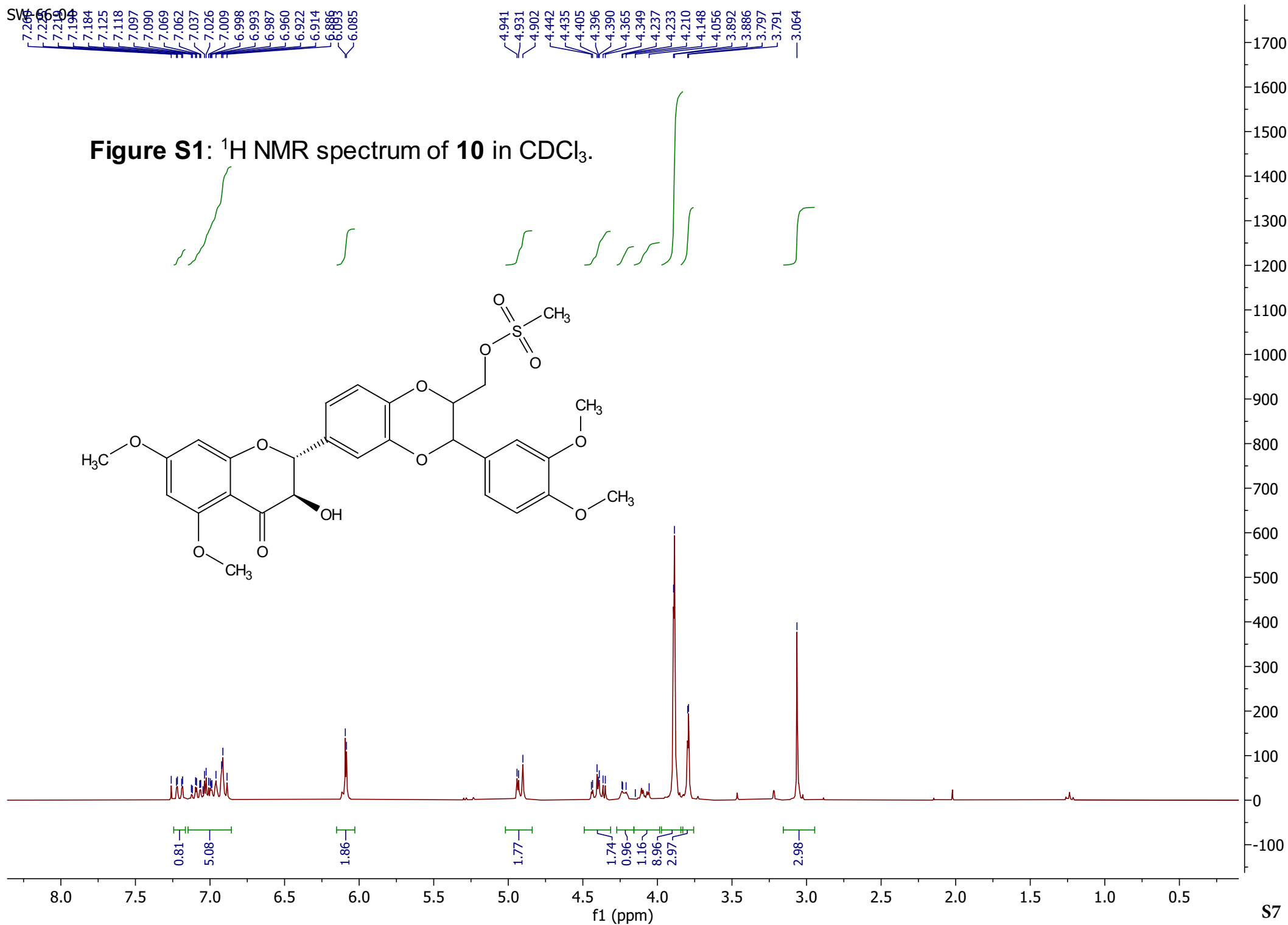
Figure S21: ^1H NMR spectrum of 15 in CDCl_3	S27
Figure S22: ^{13}C NMR spectrum of 15 in CDCl_3	S28
Figure S23: High resolution mass spectrum of 15	S29
Figure S24: HPLC chromatogram of 15	S30
Figure S25: ^1H NMR spectrum of 16 in CDCl_3	S31
Figure S26: ^{13}C NMR spectrum of 16 in CDCl_3	S32
Figure S27: High resolution mass spectrum of 16	S33
Figure S28: HPLC chromatogram of 16	S34
Figure S29: ^1H NMR spectrum of 17 in CDCl_3	S35
Figure S30: ^{13}C NMR spectrum of 17 in $\text{CDCl}_3/\text{DMSO}-d_6$ (10:1, v/v).....	S36
Figure S31: High resolution mass spectrum of 17	S37
Figure S32: HPLC chromatogram of 17	S38
Figure S33: ^1H NMR spectrum of 18 in CDCl_3	S39
Figure S34: ^{13}C NMR spectrum of 18 in CDCl_3	S40
Figure S35: High resolution mass spectrum of 18	S41
Figure S36: HPLC chromatogram of 18	S42
Figure S37: ^1H NMR spectrum of 19 in CDCl_3	S43
Figure S38: ^{13}C NMR spectrum of 19 in CDCl_3	S44
Figure S39: High resolution mass spectrum of 19	S45
Figure S40: HPLC chromatogram of 19	S46
Figure S41: ^1H NMR spectrum of 20 in CDCl_3	S47
Figure S42: ^{13}C NMR spectrum of 20 in CDCl_3	S48
Figure S43: High resolution mass spectrum of 20	S49
Figure S44: HPLC chromatogram of 20	S50
Figure S45: ^1H NMR spectrum of 21 in CDCl_3	S51
Figure S46: ^{13}C NMR spectrum of 21 in CDCl_3	S52
Figure S47: High resolution mass spectrum of 21	S53
Figure S48: HPLC chromatogram of 21	S54
Figure S49: ^1H NMR spectrum of 22 in CDCl_3	S55
Figure S50: ^{13}C NMR spectrum of 22 in CDCl_3	S56
Figure S51: High resolution mass spectrum of 22	S57
Figure S52: HPLC chromatogram of 22	S58
Figure S53: ^1H NMR spectrum of 23 in CDCl_3	S59
Figure S54: ^{13}C NMR spectrum of 23 in CDCl_3	S60
Figure S55: High resolution mass spectrum of 23	S61
Figure S56: HPLC chromatogram of 23	S62

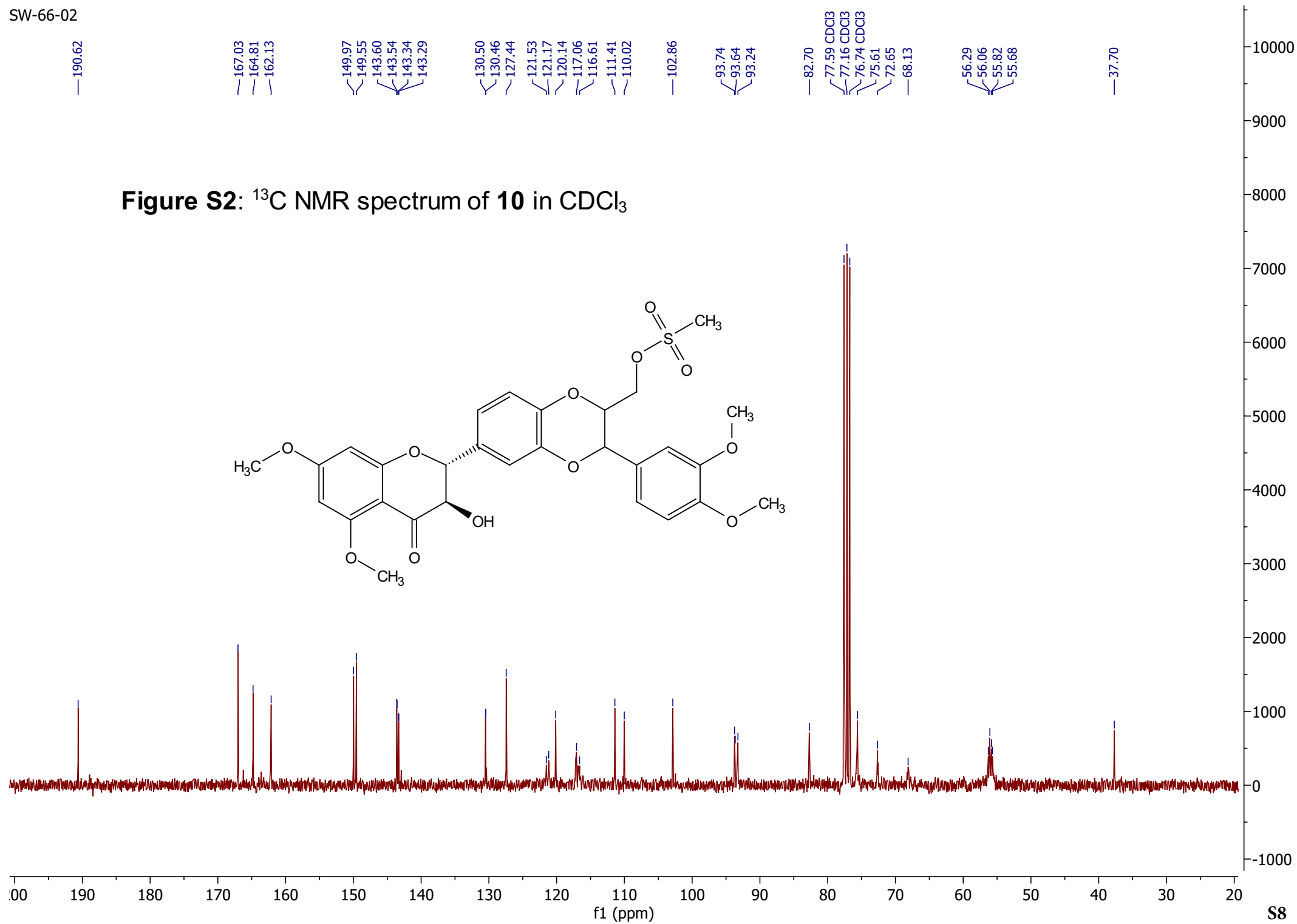
Figure S57: ^1H NMR spectrum of 24 in CDCl_3	S63
Figure S58: ^{13}C NMR spectrum of 24 in CDCl_3	S64
Figure S59: High resolution mass spectrum of 24	S65
Figure S60: HPLC chromatogram of 24	S66
Figure S61: ^1H NMR spectrum of 25 in CDCl_3	S67
Figure S62: ^{13}C NMR spectrum of 25 in CDCl_3	S68
Figure S63: High resolution mass spectrum of 25	S69
Figure S64: HPLC chromatogram of 25	S70
Figure S65: ^1H NMR spectrum of 26 in CDCl_3	S71
Figure S66: ^{13}C NMR spectrum of 26 in CDCl_3	S72
Figure S67: High resolution mass spectrum of 26	S73
Figure S68: HPLC chromatogram of 26	S74
Figure S69: ^1H NMR spectrum of 27 in CDCl_3	S75
Figure S70: ^{13}C NMR spectrum of 27 in CDCl_3	S76
Figure S71: High resolution mass spectrum of 27	S77
Figure S72: HPLC chromatogram of 27	S78
Figure S73: ^1H NMR spectrum of 28 in CDCl_3	S79
Figure S74: ^{13}C NMR spectrum of 28 in CDCl_3	S80
Figure S75: High resolution mass spectrum of 28	S81
Figure S76: HPLC chromatogram of 28	S82
Figure S77: ^1H NMR spectrum of 29 in CDCl_3	S83
Figure S78: ^{13}C NMR spectrum of 29 in CDCl_3	S84
Figure S79: High resolution mass spectrum of 29	S85
Figure S80: HPLC chromatogram of 29	S86
Figure S81: ^1H NMR spectrum of 30 in CDCl_3	S87
Figure S82: ^{13}C NMR spectrum of 30 in CDCl_3	S88
Figure S83: High resolution mass spectrum of 30	S89
Figure S84: HPLC chromatogram of 30	S90
Figure S85: ^1H NMR spectrum of 31 in CDCl_3	S91
Figure S86: ^{13}C NMR spectrum of 31 in CDCl_3	S92
Figure S87: High resolution mass spectrum of 31	S93
Figure S88: HPLC chromatogram of 31	S94
Figure S89: ^1H NMR spectrum of 32 in CDCl_3	S95
Figure S90: ^{13}C NMR spectrum of 32 in CDCl_3	S96
Figure S91: High resolution mass spectrum of 32	S97
Figure S92: HPLC chromatogram of 32	S98

Figure S93: ^1H NMR spectrum of 33 in CDCl_3	S99
Figure S94: ^{13}C NMR spectrum of 33 in CDCl_3	S100
Figure S95: High resolution mass spectrum of 33	S101
Figure S96: HPLC chromatogram of 33	S102
Figure S97: ^1H NMR spectrum of 34 in CDCl_3	S103
Figure S98: ^{13}C NMR spectrum of 34 in CDCl_3	S104
Figure S99: High resolution mass spectrum of 34	S105
Figure S100: HPLC chromatogram of 34	S106
Figure S101: ^1H NMR spectrum of 35 in CDCl_3	S107
Figure S102: ^{13}C NMR spectrum of 35 in CDCl_3	S108
Figure S103: High resolution mass spectrum of 35	S109
Figure S104: HPLC chromatogram of 35	S110
Figure S105: ^1H NMR spectrum of 5A in CDCl_3	S111
Figure S106: ^{13}C NMR spectrum of 5A in CDCl_3	S112
Figure S107: High resolution mass spectrum of 5A	S113
Figure S108: HPLC chromatogram of 5A	S114
Figure S109: ^1H NMR spectrum of 5B in CDCl_3	S115
Figure S110: ^{13}C NMR spectrum of 5B in CDCl_3	S116
Figure S111: High resolution mass spectrum of 5B	S117
Figure S112: HPLC chromatogram of 5B	S118
Figure S113: ^1H NMR spectrum of 41A in CDCl_3	S119
Figure S114: ^{13}C NMR spectrum of 41A in CDCl_3	S120
Figure S115: High resolution mass spectrum of 41A	S121
Figure S116: HPLC chromatogram of 41A	S122
Figure S117: ^1H NMR spectrum of 41B in CDCl_3	S123
Figure S118: ^{13}C NMR spectrum of 41B in CDCl_3	S124
Figure S119: High resolution mass spectrum of 41B	S125
Figure S120: HPLC chromatogram of 41B	S126
Figure S121: ^1H NMR spectrum of 10A in CDCl_3	S127
Figure S122: ^{13}C NMR spectrum of 10A in CDCl_3	S128
Figure S123: High resolution mass spectrum of 10A	S129
Figure S124: HPLC chromatogram of 10A	S130
Figure S125: ^1H NMR spectrum of 10B in CDCl_3	S131
Figure S126: ^{13}C NMR spectrum of 10B in CDCl_3	S132
Figure S127: High resolution mass spectrum of 10B	S133
Figure S128: HPLC chromatogram of 10B	S134

Figure S129: ^1H NMR spectrum of 11A in CDCl_3	S135
Figure S130: ^{13}C NMR spectrum of 11A in CDCl_3	S136
Figure S131: High resolution mass spectrum of 11A	S137
Figure S132: HPLC chromatogram of 11A	S138
Figure S133: ^1H NMR spectrum of 11B in CDCl_3	S139
Figure S134: ^{13}C NMR spectrum of 11B in CDCl_3	S140
Figure S135: High resolution mass spectrum of 11B	S141
Figure S136: HPLC chromatogram of 11B	S142
Figure S137: ^1H NMR spectrum of 6A in CDCl_3	S143
Figure S138: ^{13}C NMR spectrum of 6A in CDCl_3	S144
Figure S139: High resolution mass spectrum of 6A	S145
Figure S140: HPLC chromatogram of 6A	S146
Figure S141: ^1H NMR spectrum of 6B in CDCl_3	S147
Figure S142: ^{13}C NMR spectrum of 6B in CDCl_3	S148
Figure S143: High resolution mass spectrum of 6B	S149
Figure S144: HPLC chromatogram of 6B	S150
Figure S145: ^1H NMR spectrum of 7A in CDCl_3	S151
Figure S146: ^{13}C NMR spectrum of 7A in CDCl_3	S152
Figure S147: High resolution mass spectrum of 7A	S153
Figure S148: HPLC chromatogram of 7A	S154
Figure S149: ^1H NMR spectrum of 7B in CDCl_3	S155
Figure S150: ^{13}C NMR spectrum of 7B in CDCl_3	S156
Figure S151: High resolution mass spectrum of 7B	S157
Figure S152: HPLC chromatogram of 7B	S158
Figure S153: ^1H NMR spectrum of 8A in CDCl_3	S159
Figure S154: ^{13}C NMR spectrum of 8A in CDCl_3	S160
Figure S155: High resolution mass spectrum of 8A	S161
Figure S156: HPLC chromatogram of 8A	S162
Figure S157: ^1H NMR spectrum of 8B in CDCl_3	S163
Figure S158: ^{13}C NMR spectrum of 8B in CDCl_3	S164
Figure S159: High resolution mass spectrum of 8B	S165
Figure S160: HPLC chromatogram of 8B	S166
Figure S161: ^1H NMR spectrum of 9A in CDCl_3	S167
Figure S162: ^{13}C NMR spectrum of 9A in CDCl_3	S168
Figure S163: High resolution mass spectrum of 9A	S169
Figure S164: HPLC chromatogram of 9A	S170

Figure S165: ^1H NMR spectrum of 9B in CDCl_3	S171
Figure S166: ^{13}C NMR spectrum of 9B in CDCl_3	S172
Figure S167: High resolution mass spectrum of 9B	S173
Figure S168: HPLC chromatogram of 9B	S174
Figure S169: COSY spectrum of 5 in CDCl_3	S175
Figure S170: HMQC spectrum of 5 in CDCl_3	S176
Figure S171: HMBC spectrum of 5 in CDCl_3	S177





SW-66-04 C29H30O12S 602.1459 603.1537 **603.1536** -0.0001 -0.10

SW-66-04 #1992-3080 RT: 11.81-17.67 AV: 1089 NL: 2.57E7
T: FTMS + c NSI Full ms [150.0000-1000.0000]

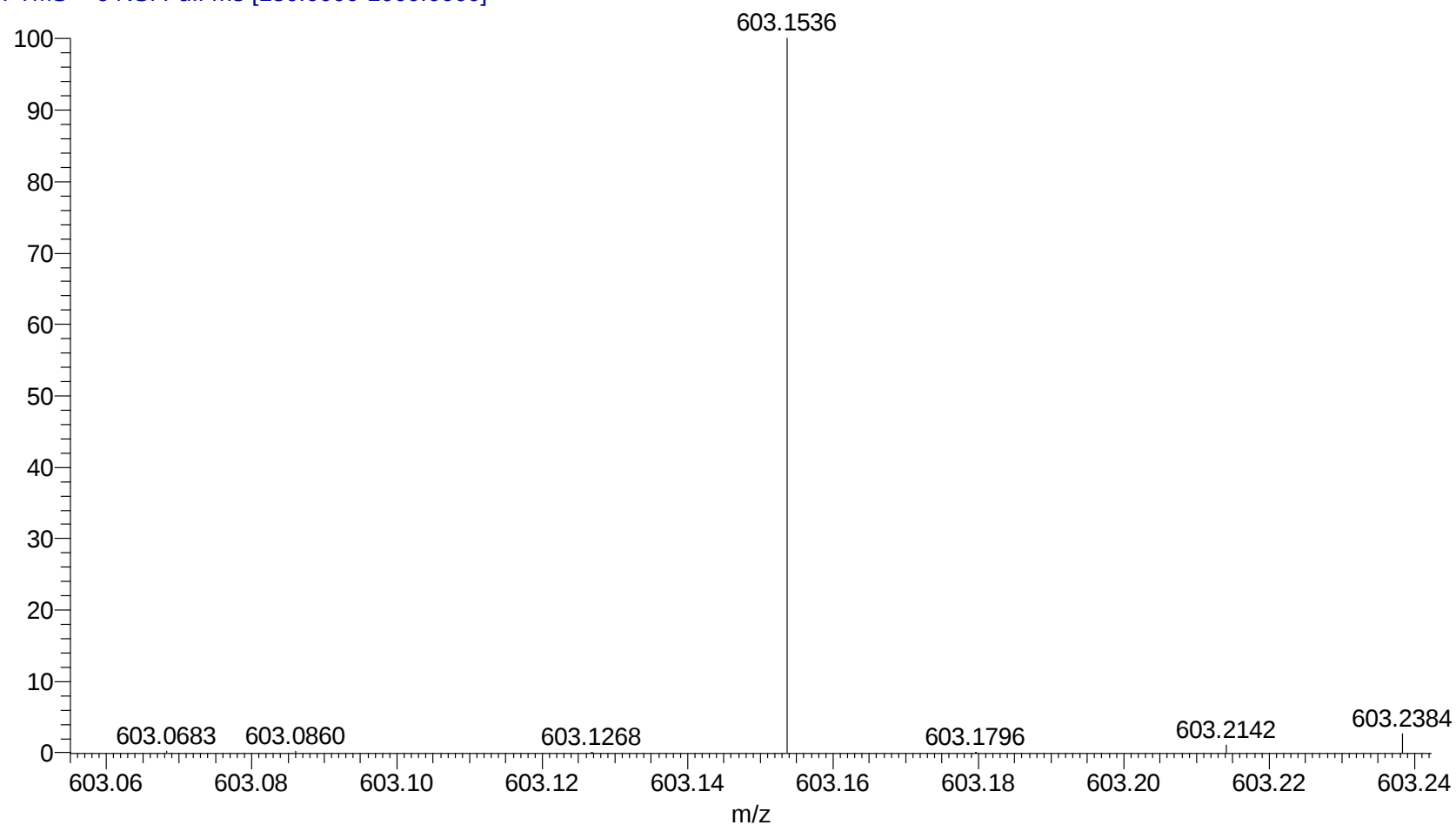
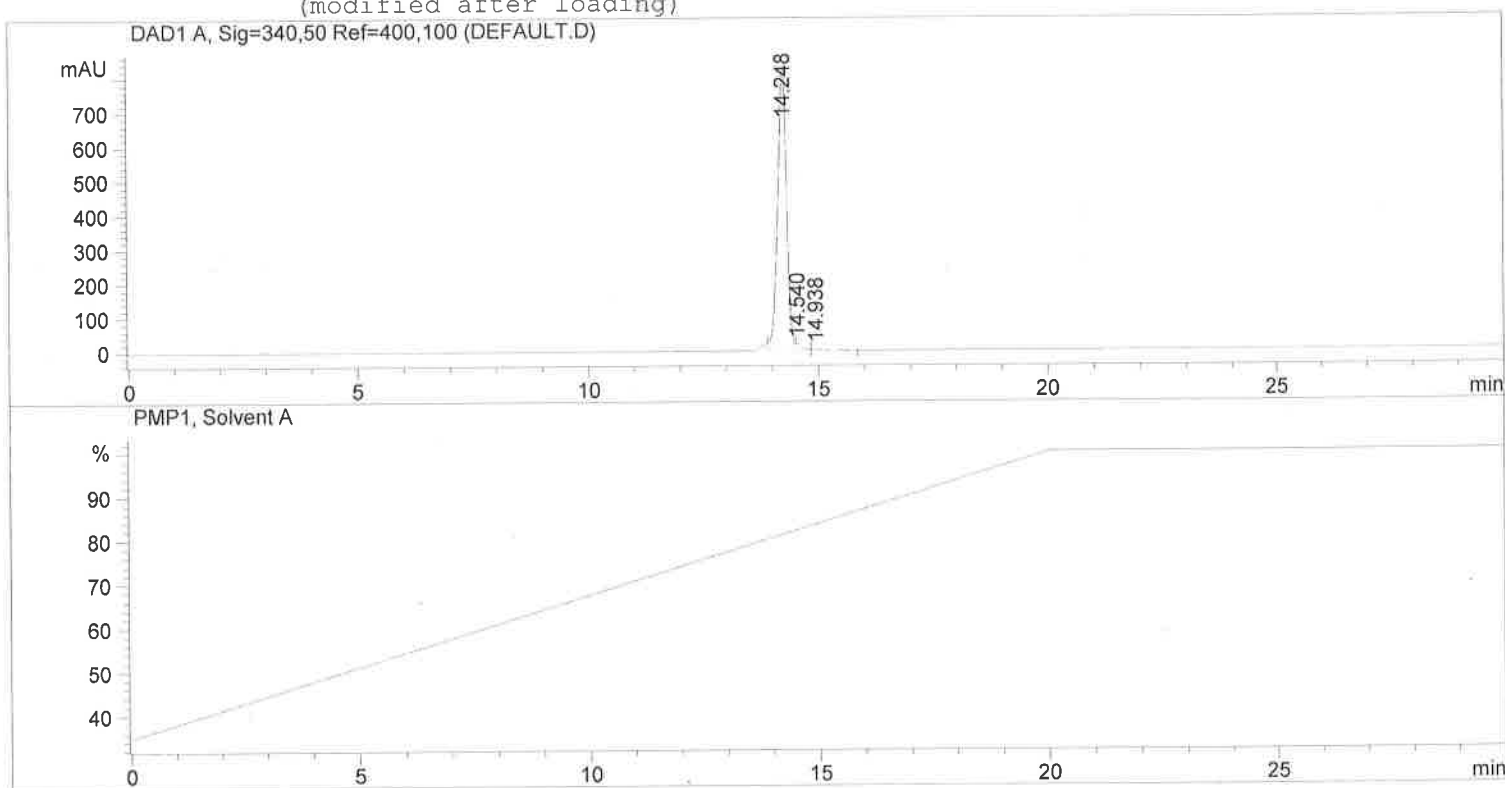


Figure S3: High resolution mass spectrum of **10**

=====
Injection Date : 4/26/2022 3:56:09 PM
Sample Name : SW-66-04 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/24/2022 3:10:54 PM
(modified after loading)



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

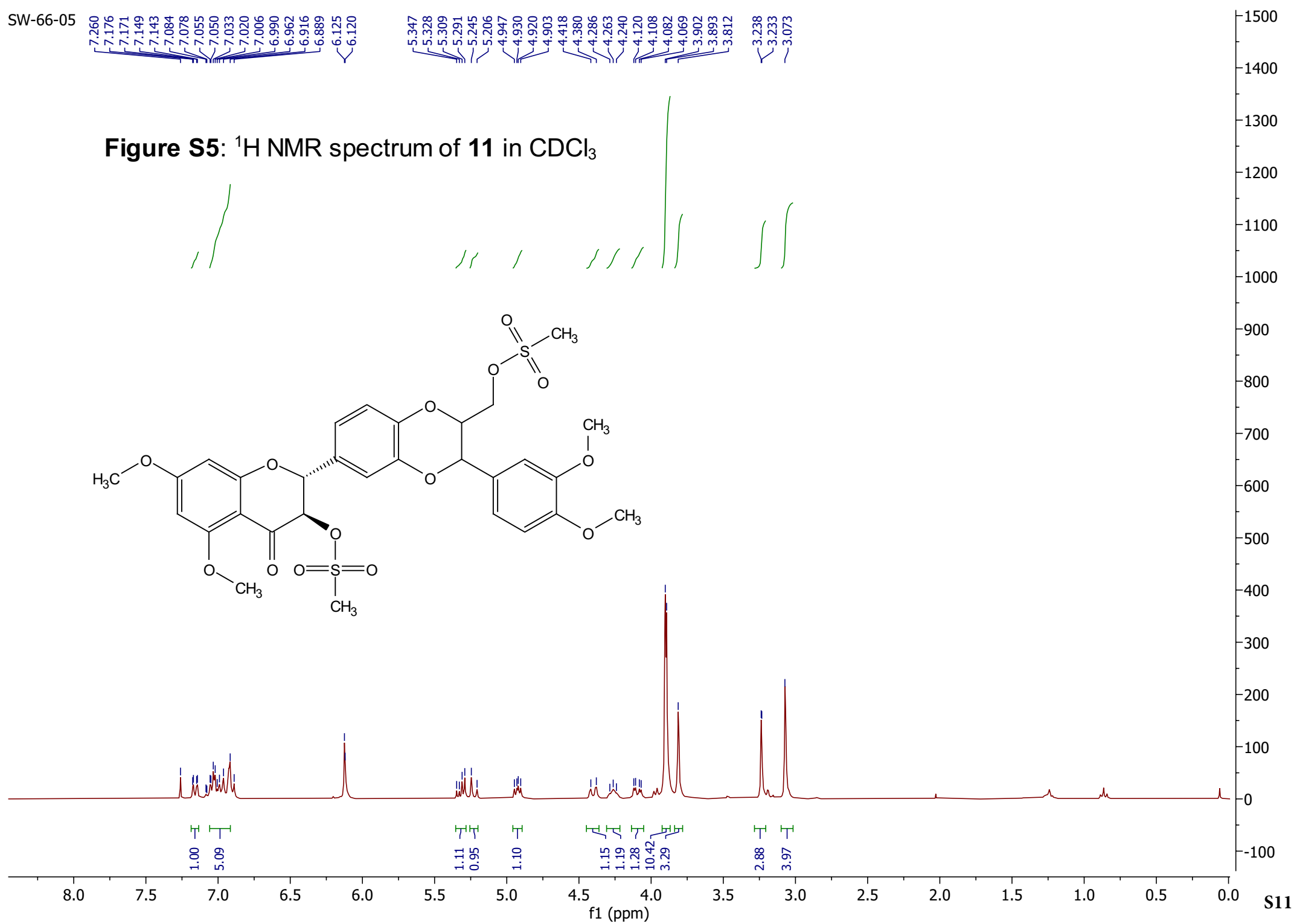
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.248	BV	0.1998	1.09255e4	828.84259	97.5757
2	14.540	VV	0.1418	198.29533	20.33183	1.7710
3	14.938	VB	0.1843	73.15618	5.75418	0.6534

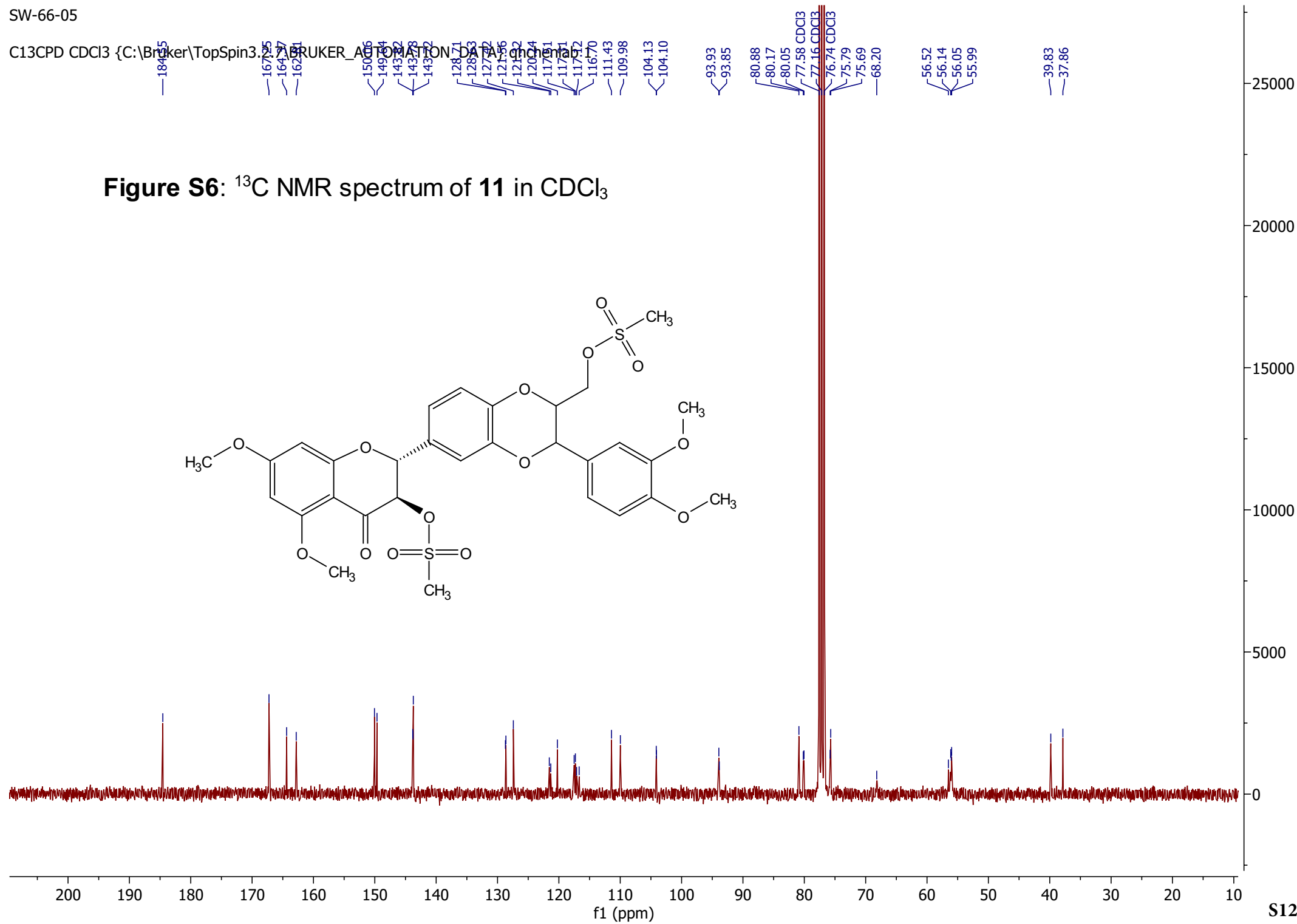
Totals : 1.11970e4 854.92860

Results obtained with enhanced integrator!

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

Figure S4: HPLC chromatogram of 10





SW-66-05 C30H32O14S2 680.1234 681.1312 **681.1335** 0.0023 3.35

SW-66-05 #3063-3135 RT: 16.04-16.42 AV: 73 NL: 7.40E5
T: FTMS + c NSI Full ms [150.0000-1000.0000]

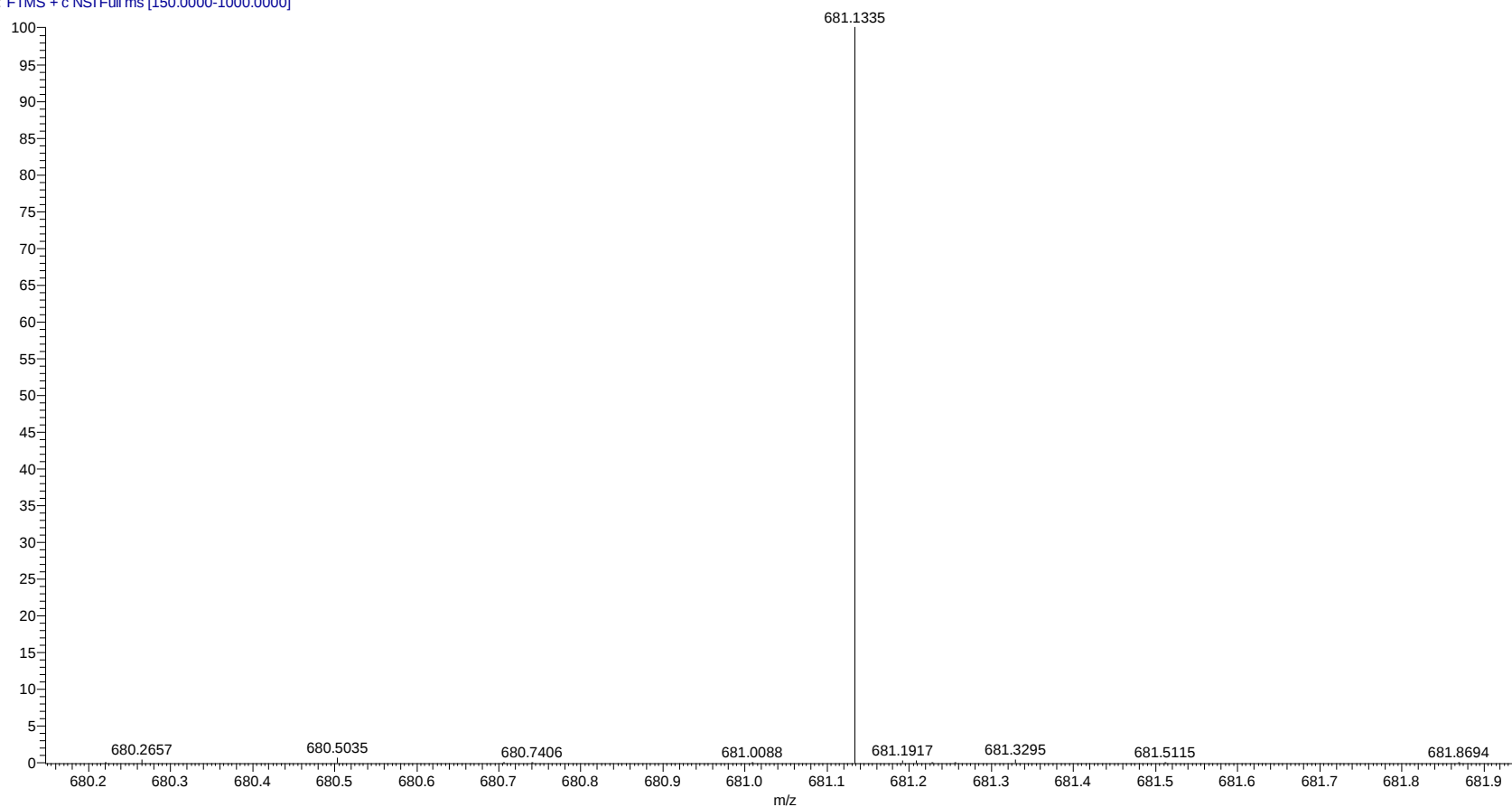
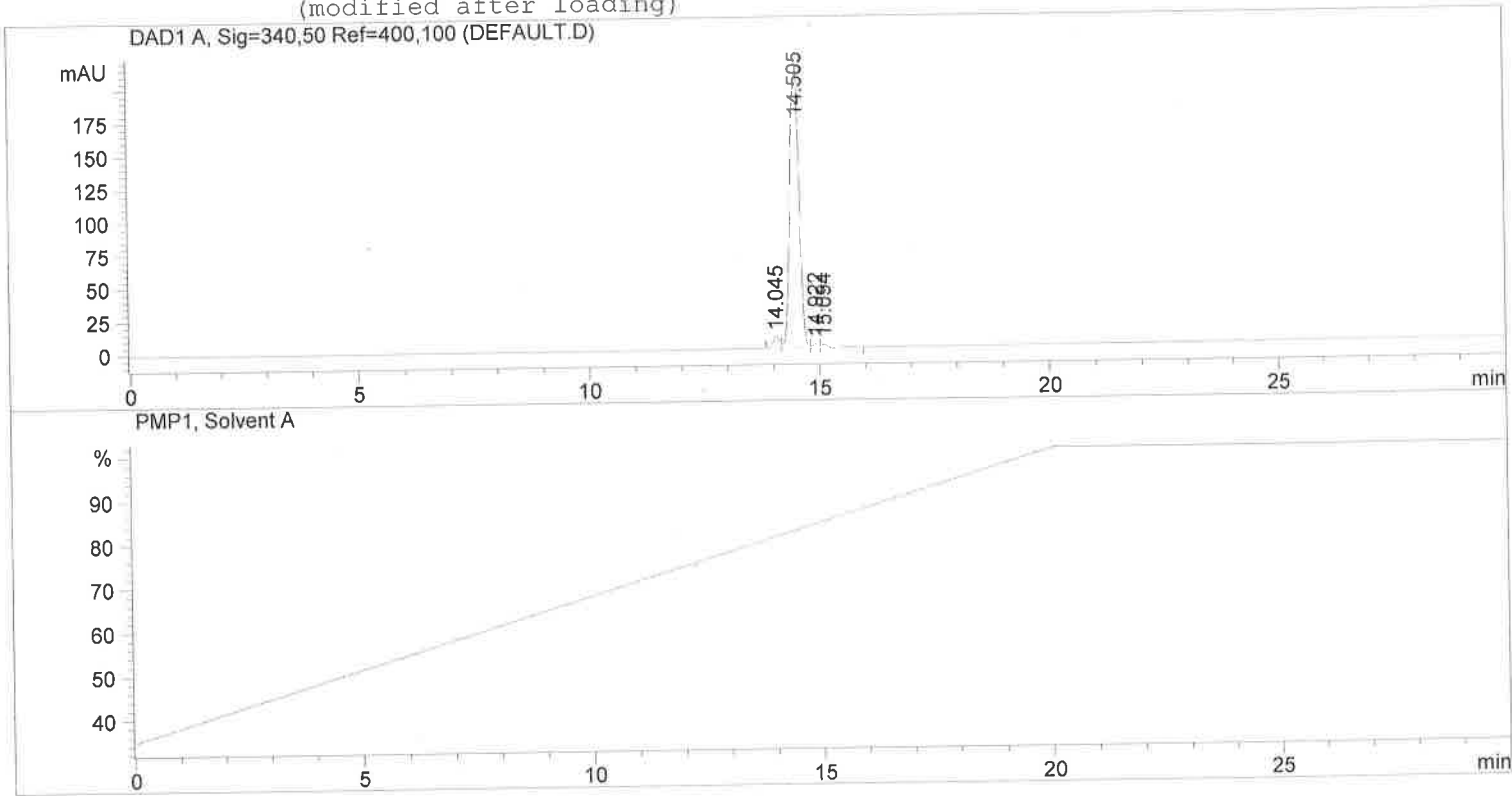


Figure S7: High resolution mass spectrum of **11**

=====
Injection Date : 4/26/2022 12:51:40 PM
Sample Name : SW-66-05 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/24/2022 3:10:54 PM
(modified after loading)



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.045	BV	0.1401	84.44093	9.11330	2.6230
2	14.505	VV	0.2311	3058.64844	213.51776	95.0097
3	14.922	VV	0.1380	34.50250	3.65813	1.0717
4	15.094	VP	0.1898	41.70987	3.08400	1.2956

Totals : 3219.30173 229.37320

Results obtained with enhanced integrator!

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

Figure S8: HPLC chromatogram of 11

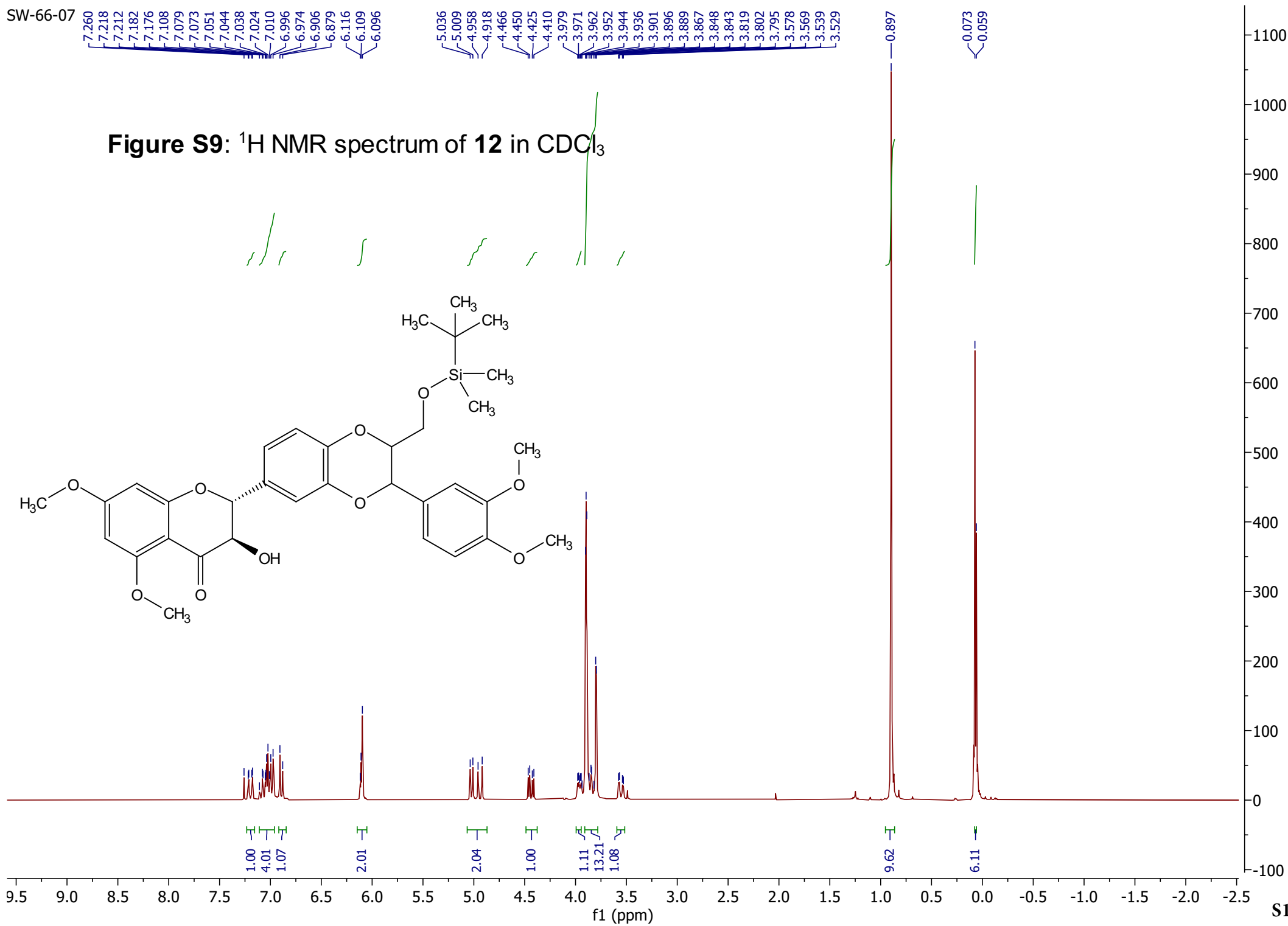
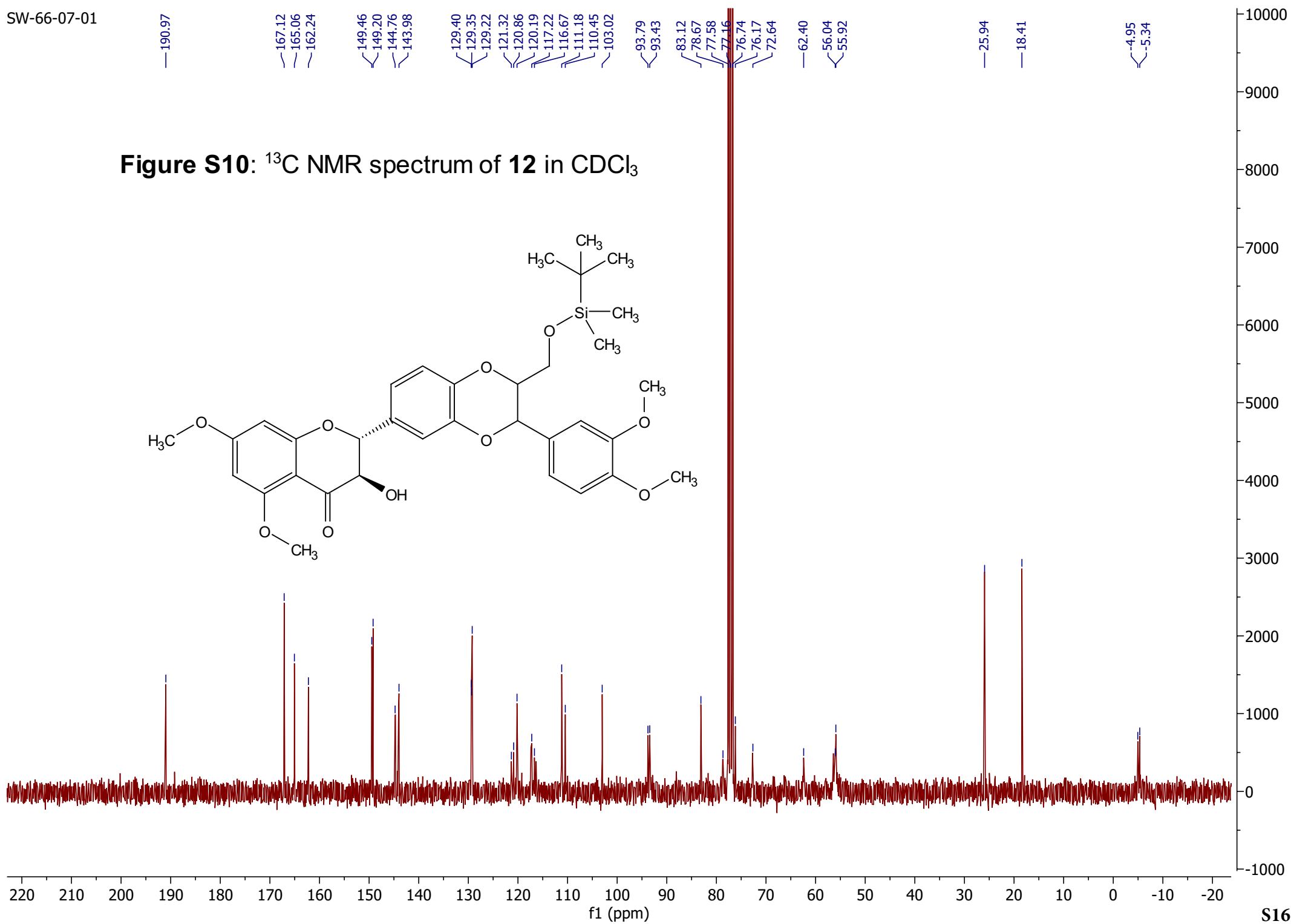
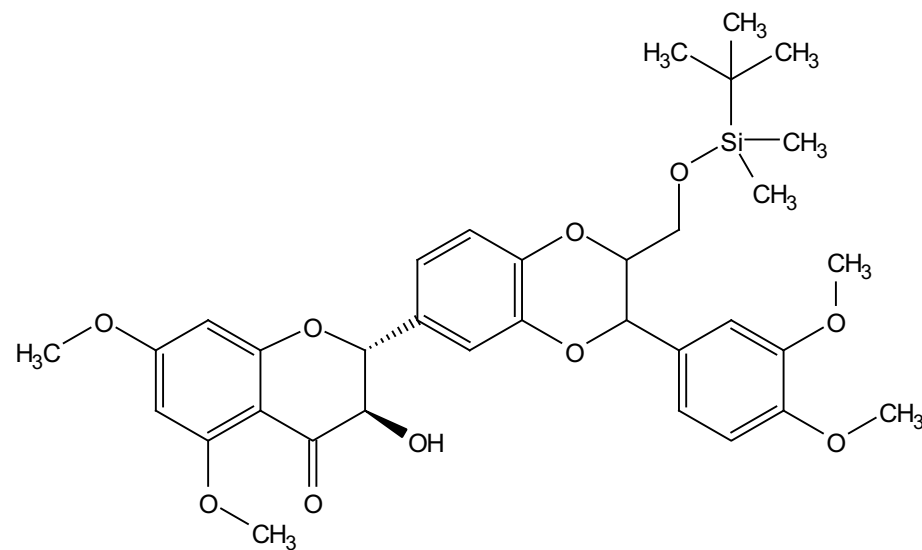


Figure S10: ^{13}C NMR spectrum of **12** in CDCl_3 

SW-66-07 C₂₄H₄₂O₁₀Si 638.2548 639.2626 **639.2623** -0.0003 -0.44

SW-66-07 #3249-3816 RT: 17.93-20.88 AV: 568 NL: 9.92E6
T: FTMS + c NSI Full ms [150.0000-1000.0000]

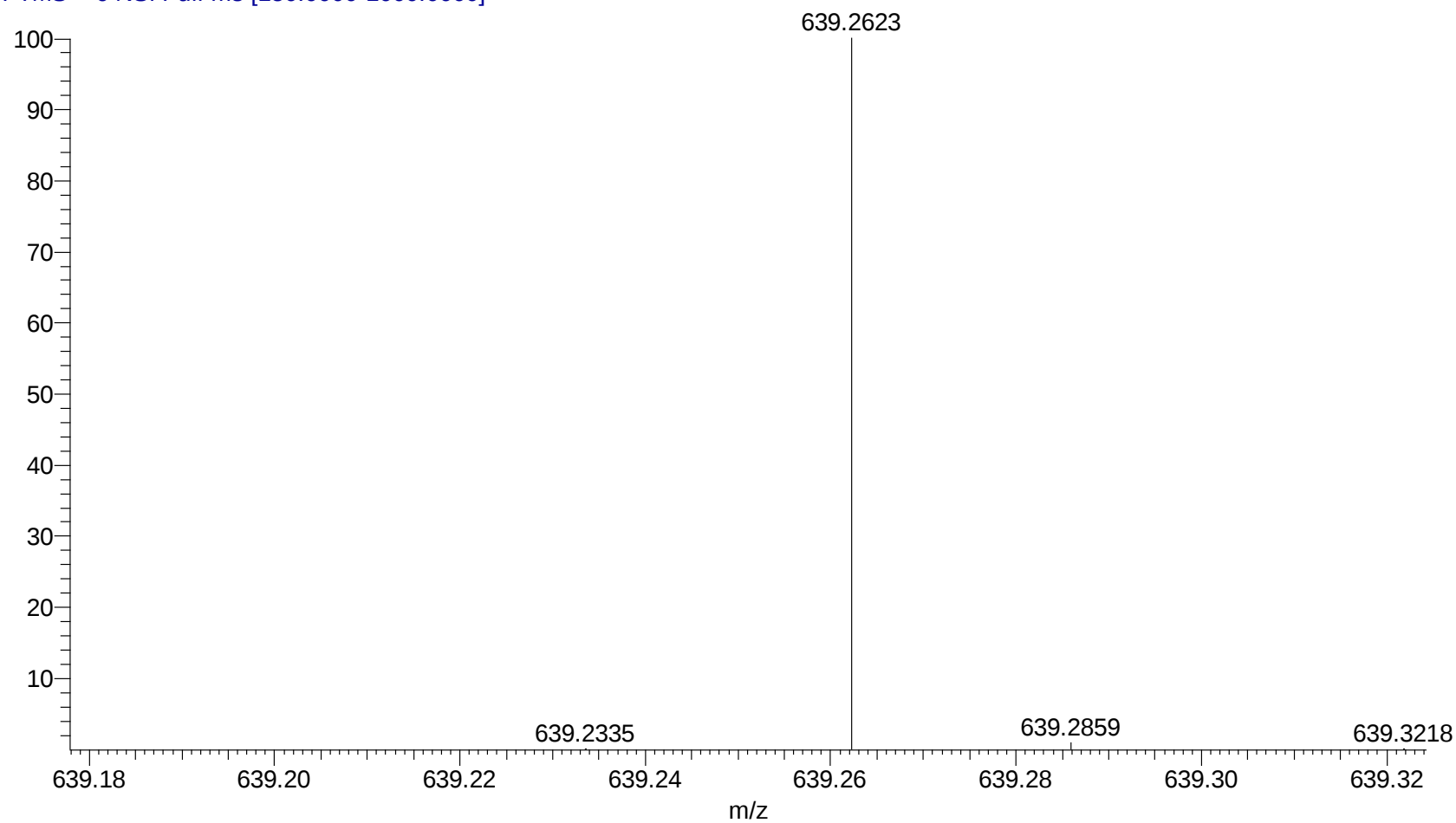
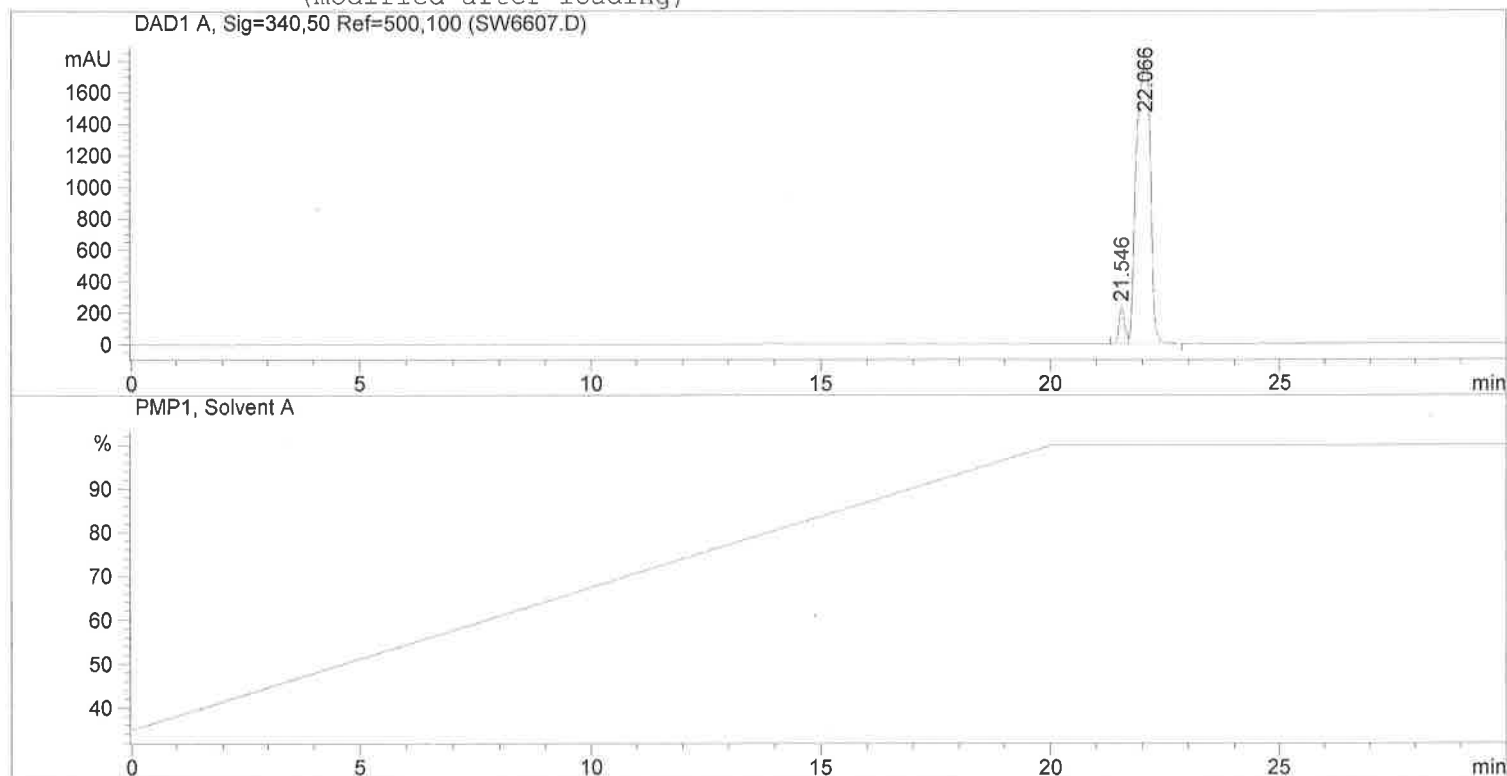


Figure S11: High resolution mass spectrum of **12**

=====
Injection Date : 5/3/2022 10:17:13 AM
Sample Name : SW-66-07 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/30/2022 3:37:52 PM
(modified after loading)



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

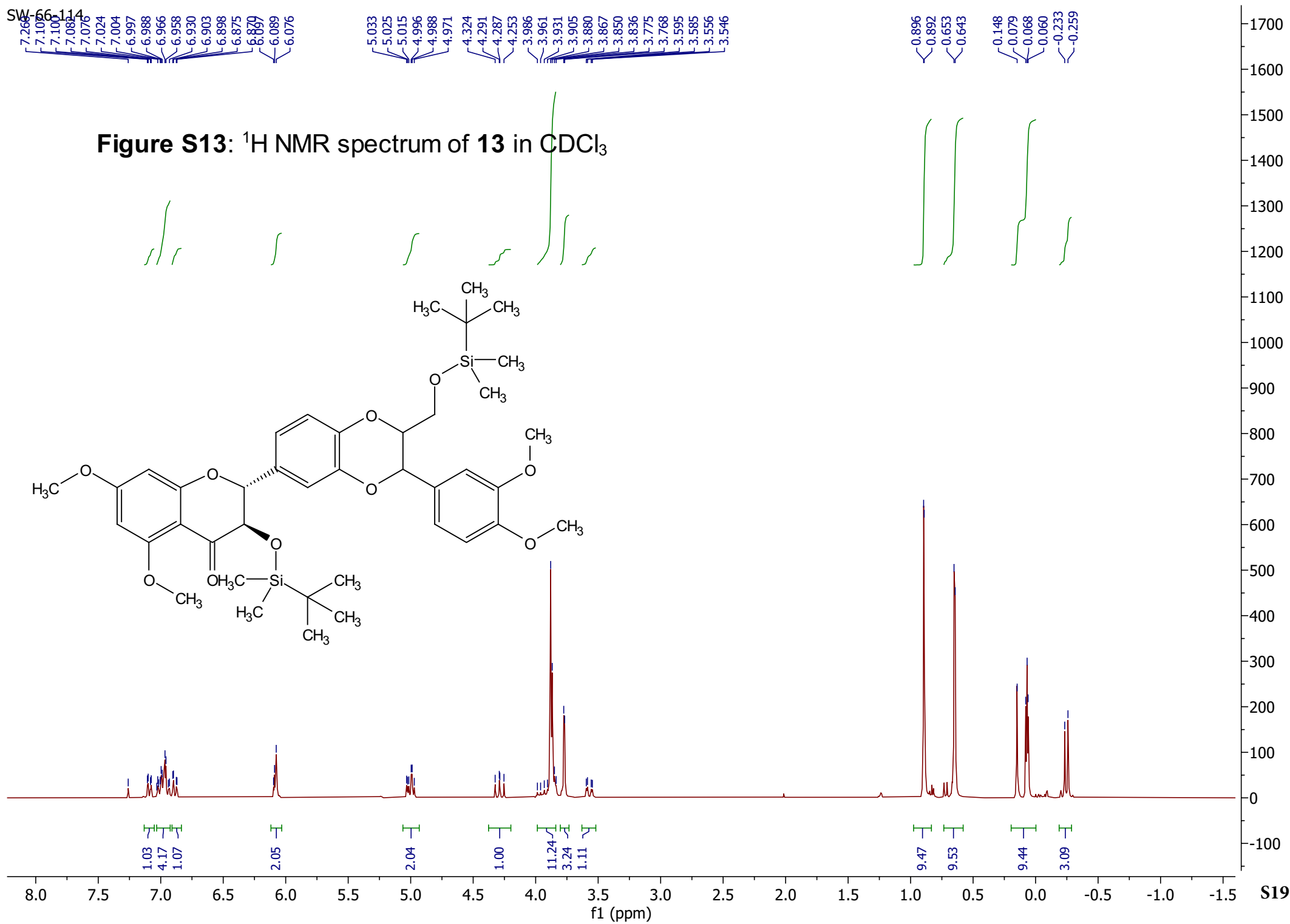
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.546	VV	0.1309	1945.58521	229.51608	4.8534
2	22.066	VV	0.3689	3.81414e4	1787.52332	95.1466

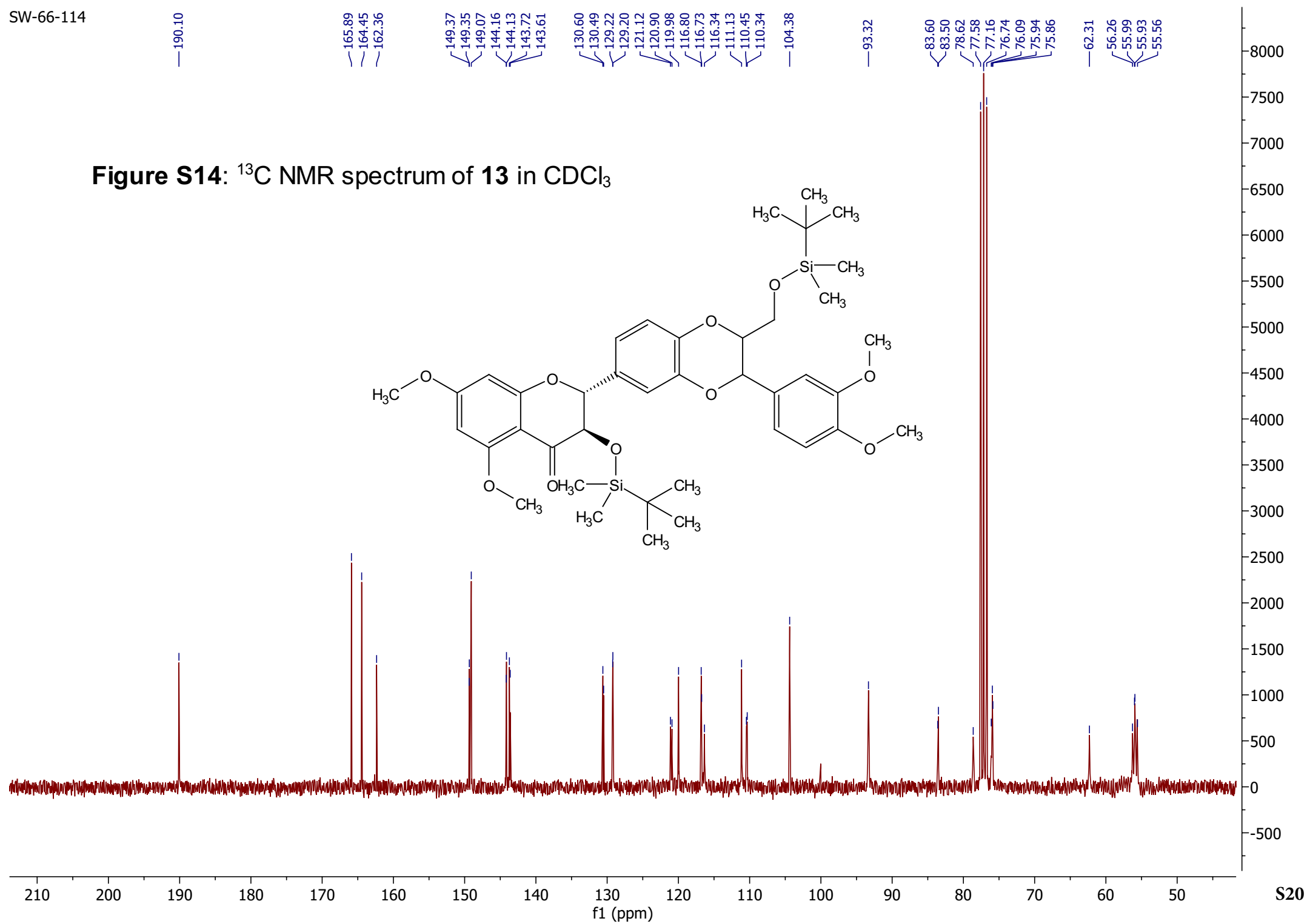
Totals : 4.00869e4 2017.03940

Results obtained with enhanced integrator!

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

Figure S12: HPLC chromatogram of 12





Sample Name	Mol Formula	MW	M+H	observed	delta	ppm
SW-66-08/114	C ₄₀ H ₅₆ O ₁₀ Si ₂	752.3413	753.3491	753.3489	-0.0002	-0.21

SW-66-08-114 #1478-1507 RT: 8.28-8.43 AV: 30 NL: 3.43E3
T: FTMS + c NSI Full ms [300.0000-1000.0000]

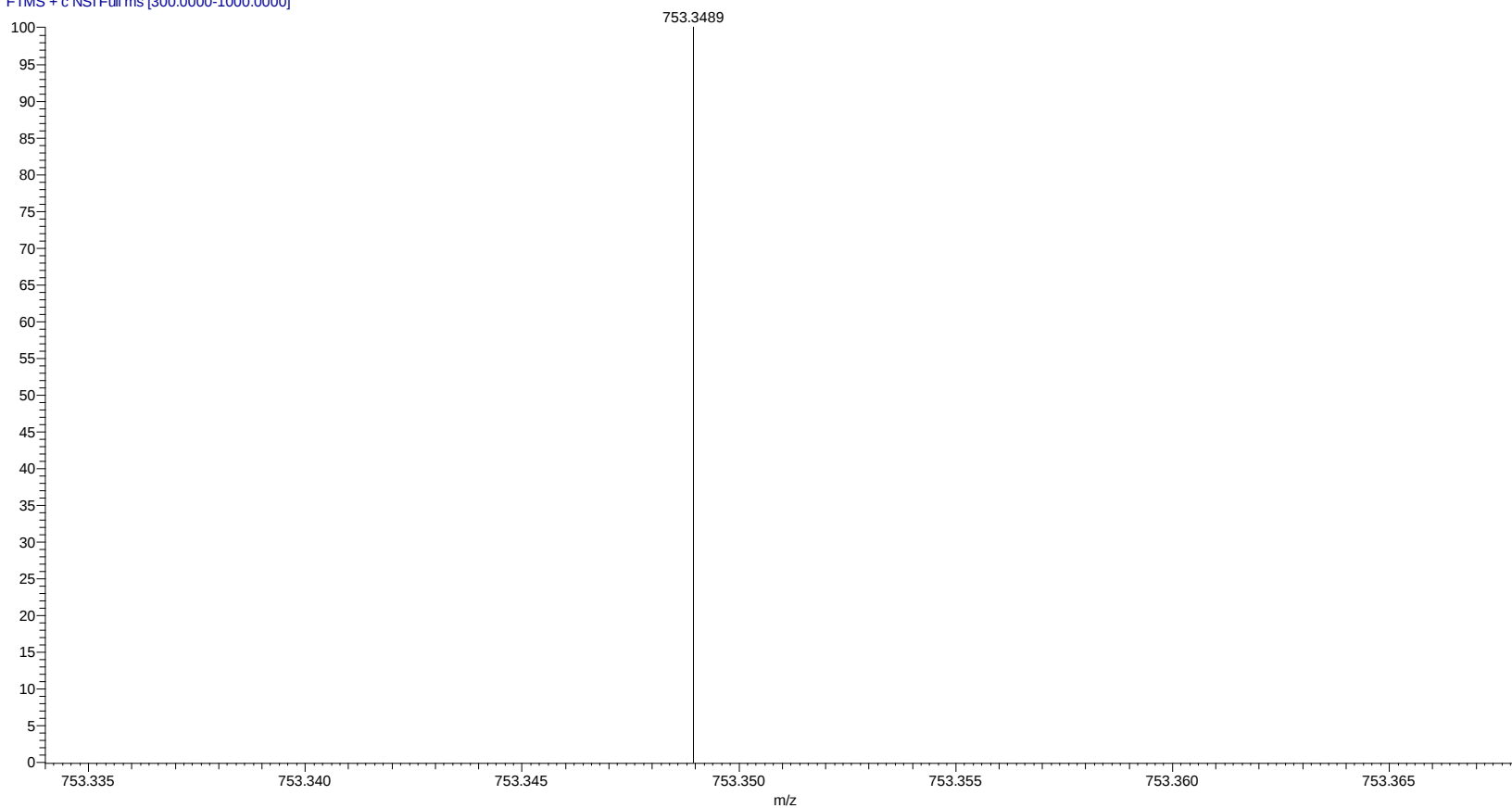
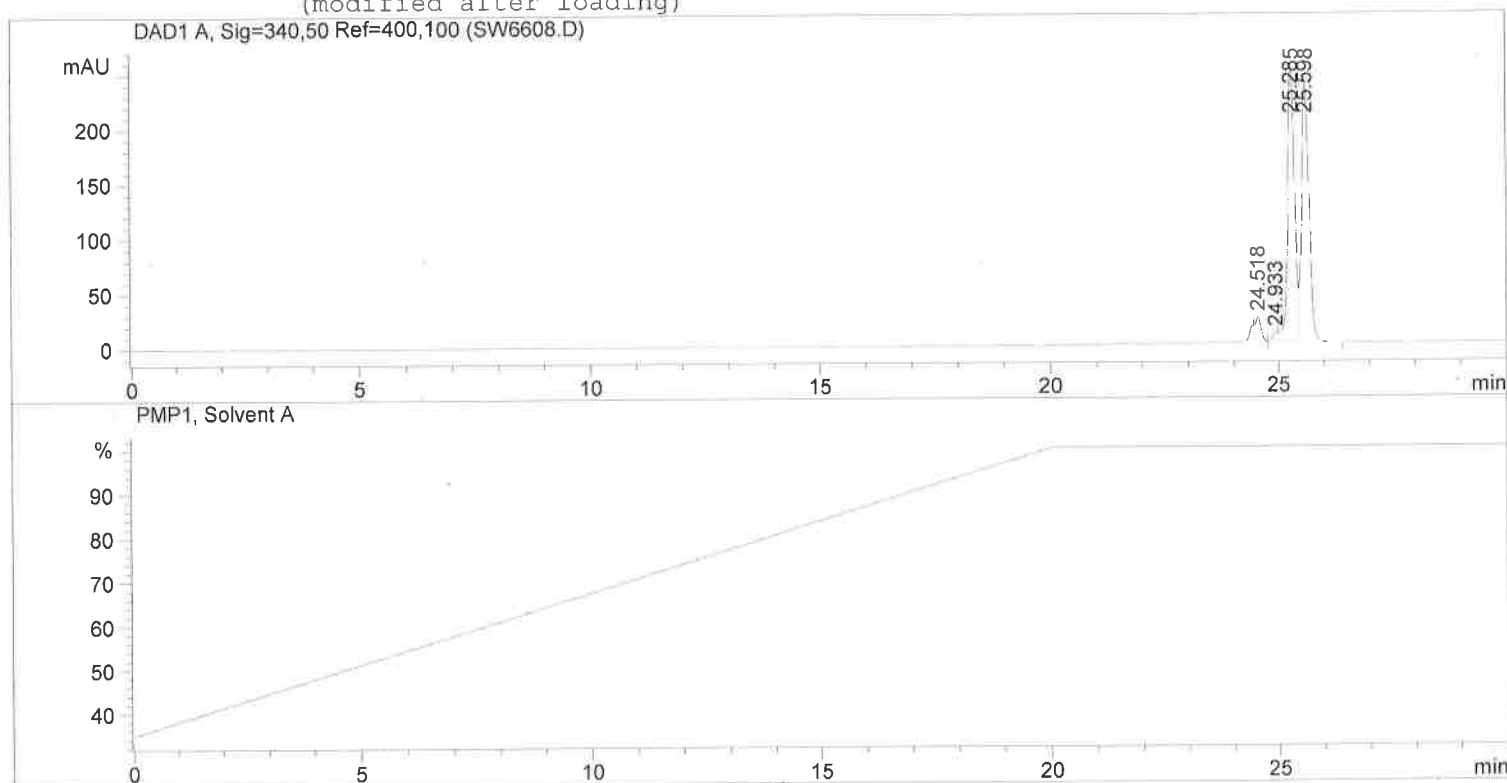


Figure S15: High resolution mass spectrum of **13**

Injection Date : 4/28/2022 1:30:24 PM
Sample Name : SW-66-08 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/28/2022 1:25:01 PM
(modified after loading)



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

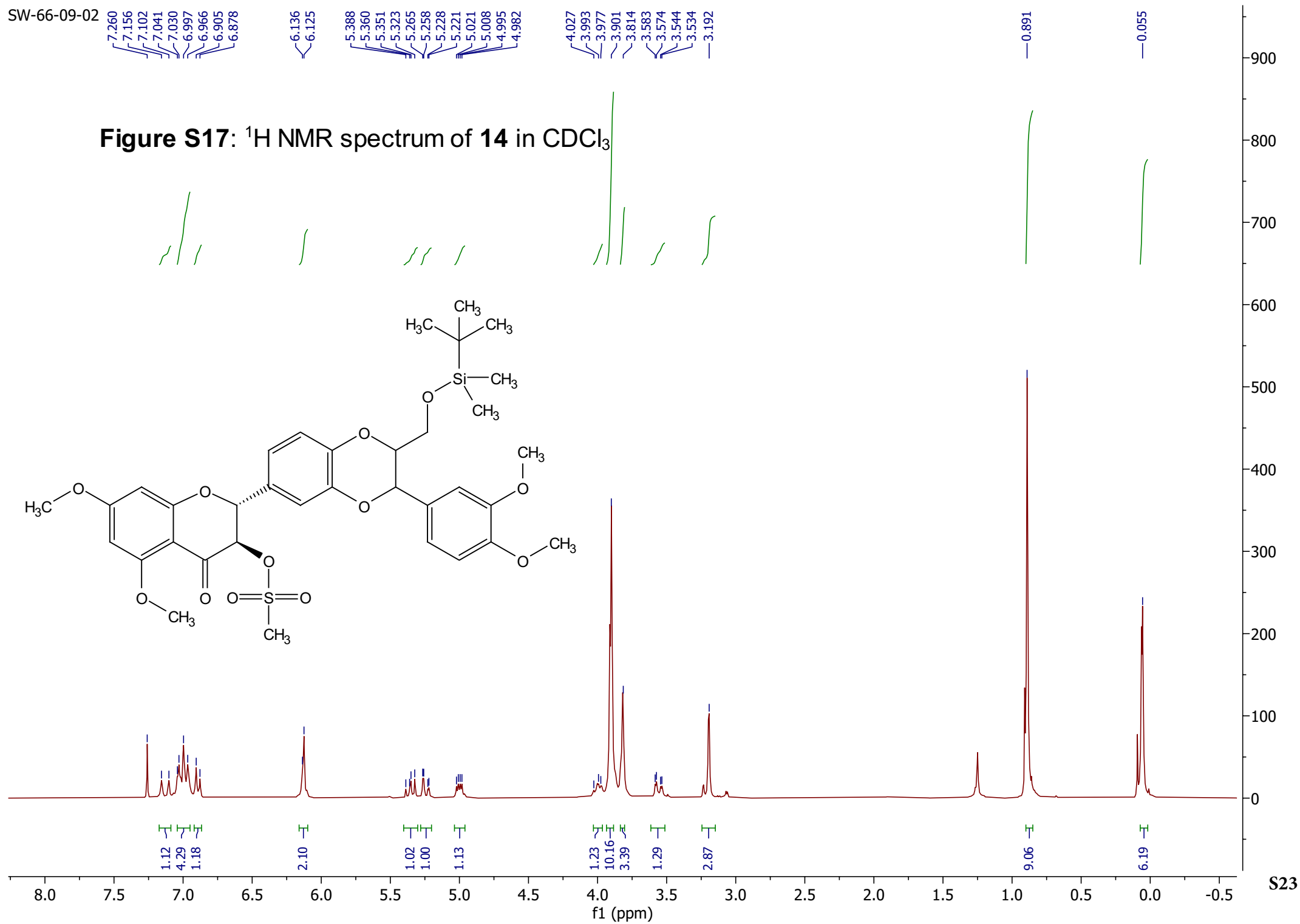
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	24.518	VP	0.1371	211.94373	23.08027	3.7549
2	24.933	VV	0.1226	73.86685	9.30888	1.3086
3	25.285	VV	0.1607	2685.11987	255.29753	47.5704
4	25.598	VB	0.1704	2673.58252	239.13531	47.3660

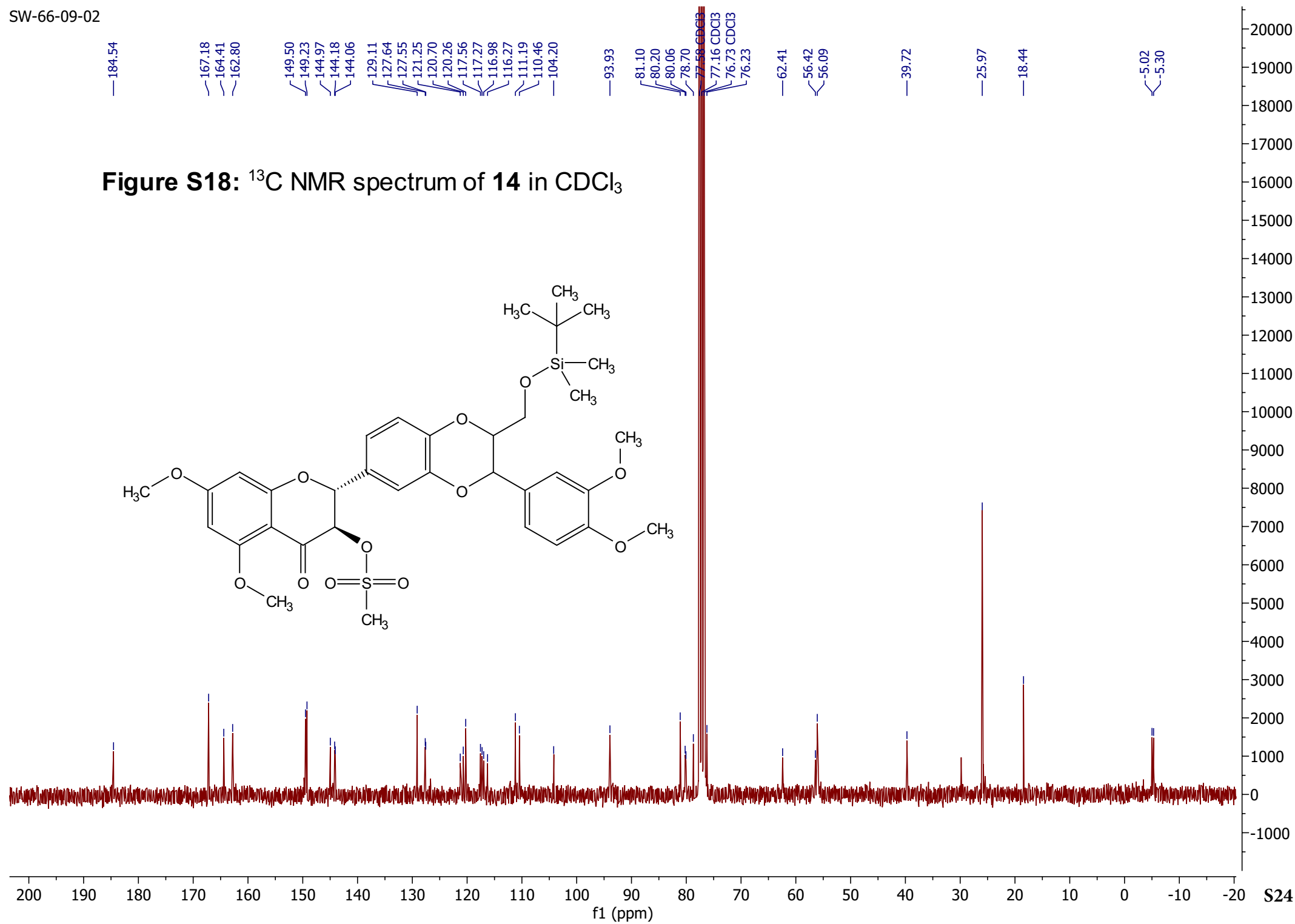
Totals : 5644.51297 526.82199

Results obtained with enhanced integrator!

*** End of Report ***

Figure S16: HPLC chromatogram of 13





compds	Mol. Formula	Exact Mass	M+H	Observed	delta	ppm
SW-66-09	C35H44O12SSi	716.2323	717.2401	717.2398	-0.0003	-0.47

SW-66-09 #1973-2506 RT: 10.38-13.17 AV: 534 NL: 7.97E6
T: FTMS + c NSI Full ms [150.0000-1000.0000]

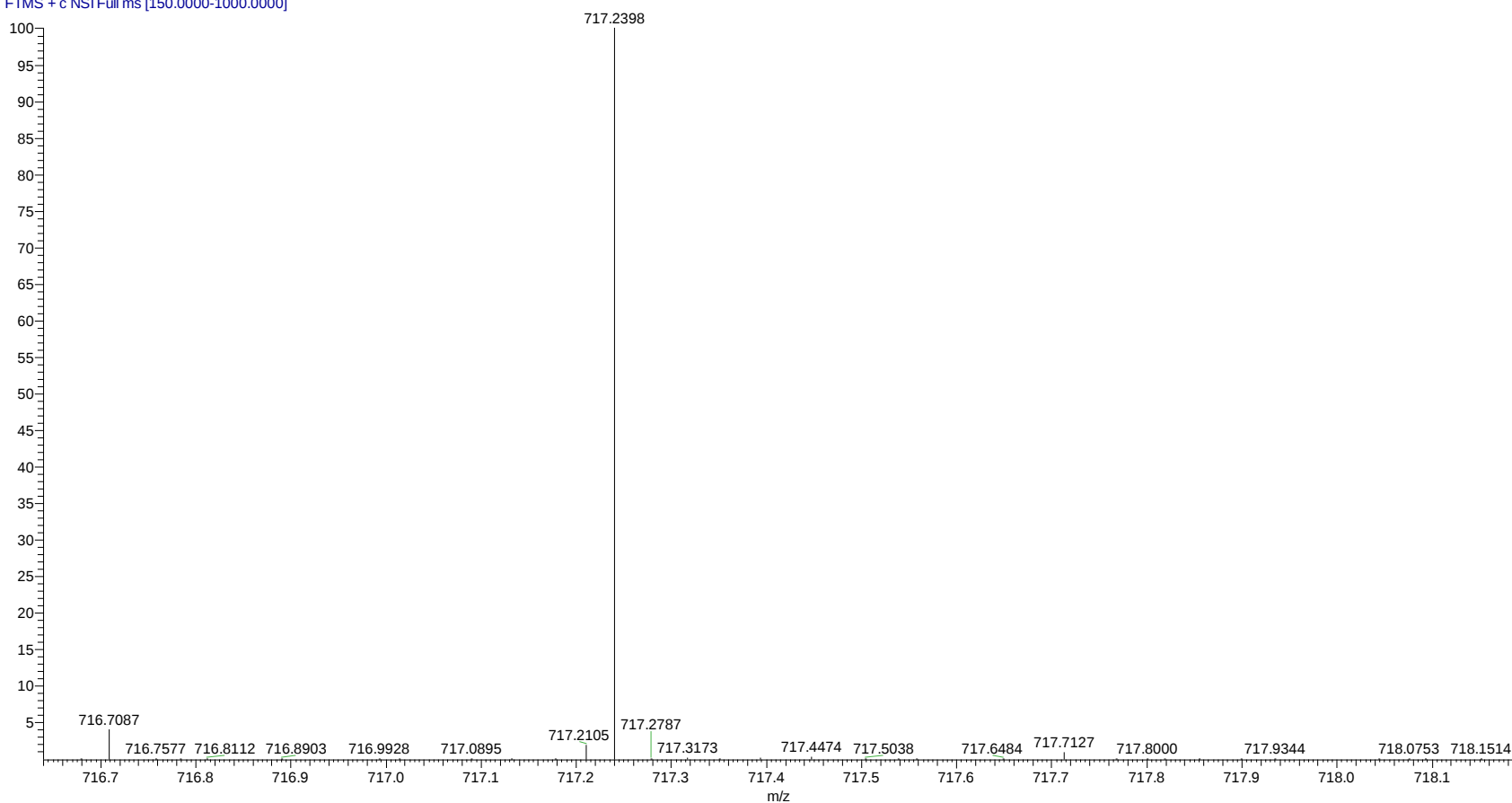
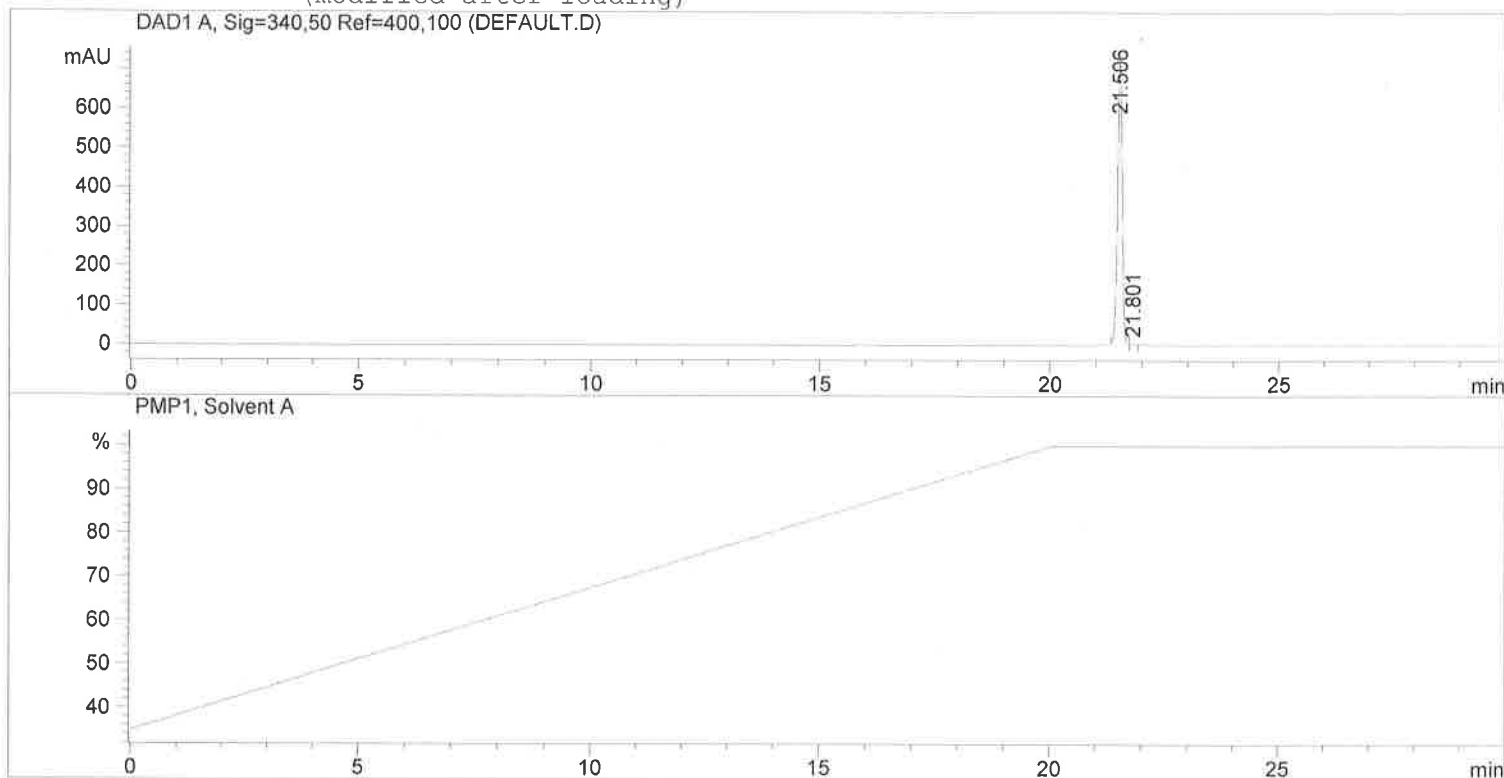


Figure S19: High resolution mass spectrum of **14**

Injection Date : 4/27/2022 12:22:44 PM
Sample Name : SW-66-09 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/24/2022 3:10:54 PM
(modified after loading)



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.506	BV	0.1090	5121.35742	719.78973	98.9668
2	21.801	VV	0.1176	53.46510	6.81031	1.0332

Totals : 5174.82252 726.60004

Results obtained with enhanced integrator!

*** End of Report ***

Figure S20: HPLC chromatogram of 14

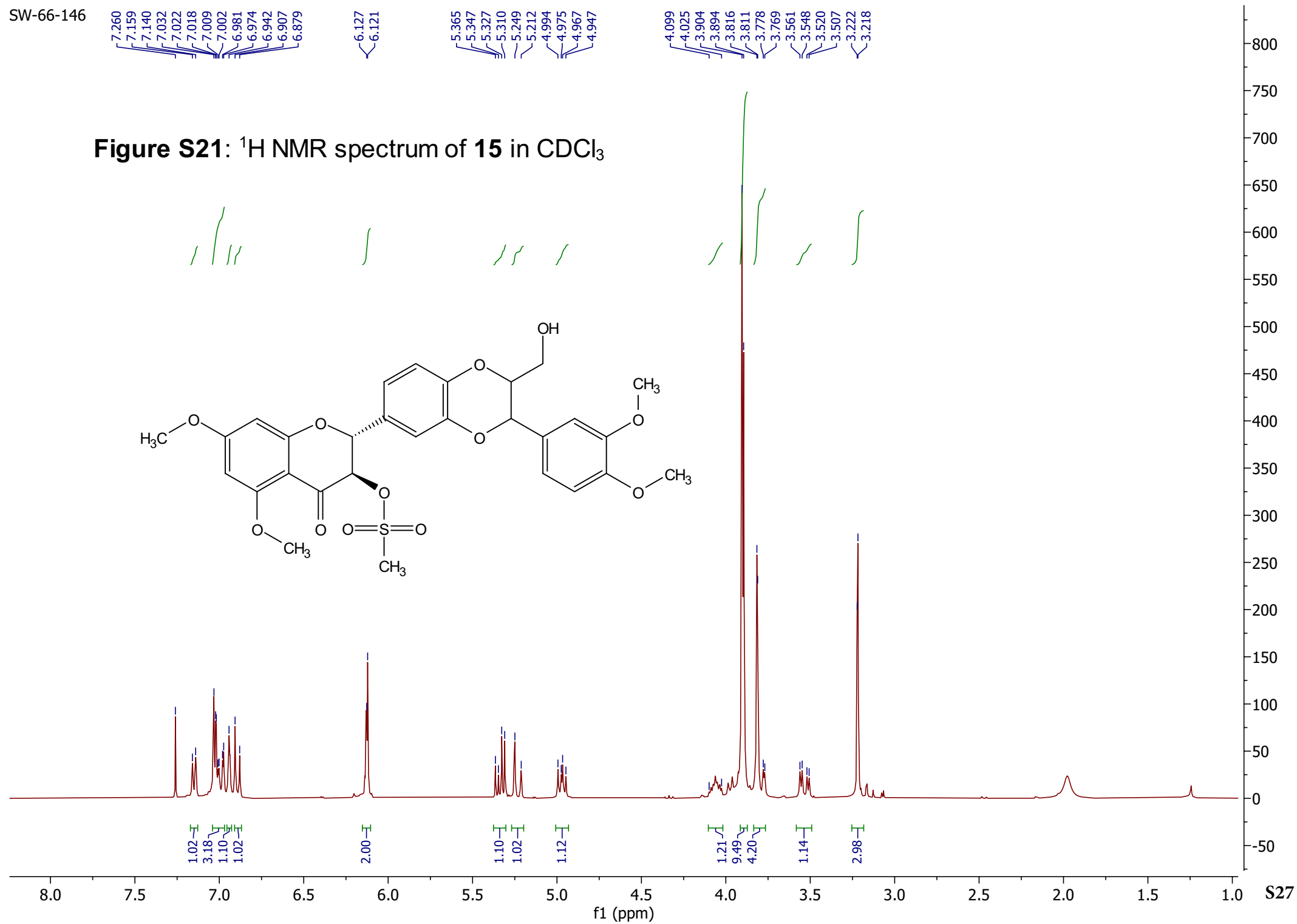
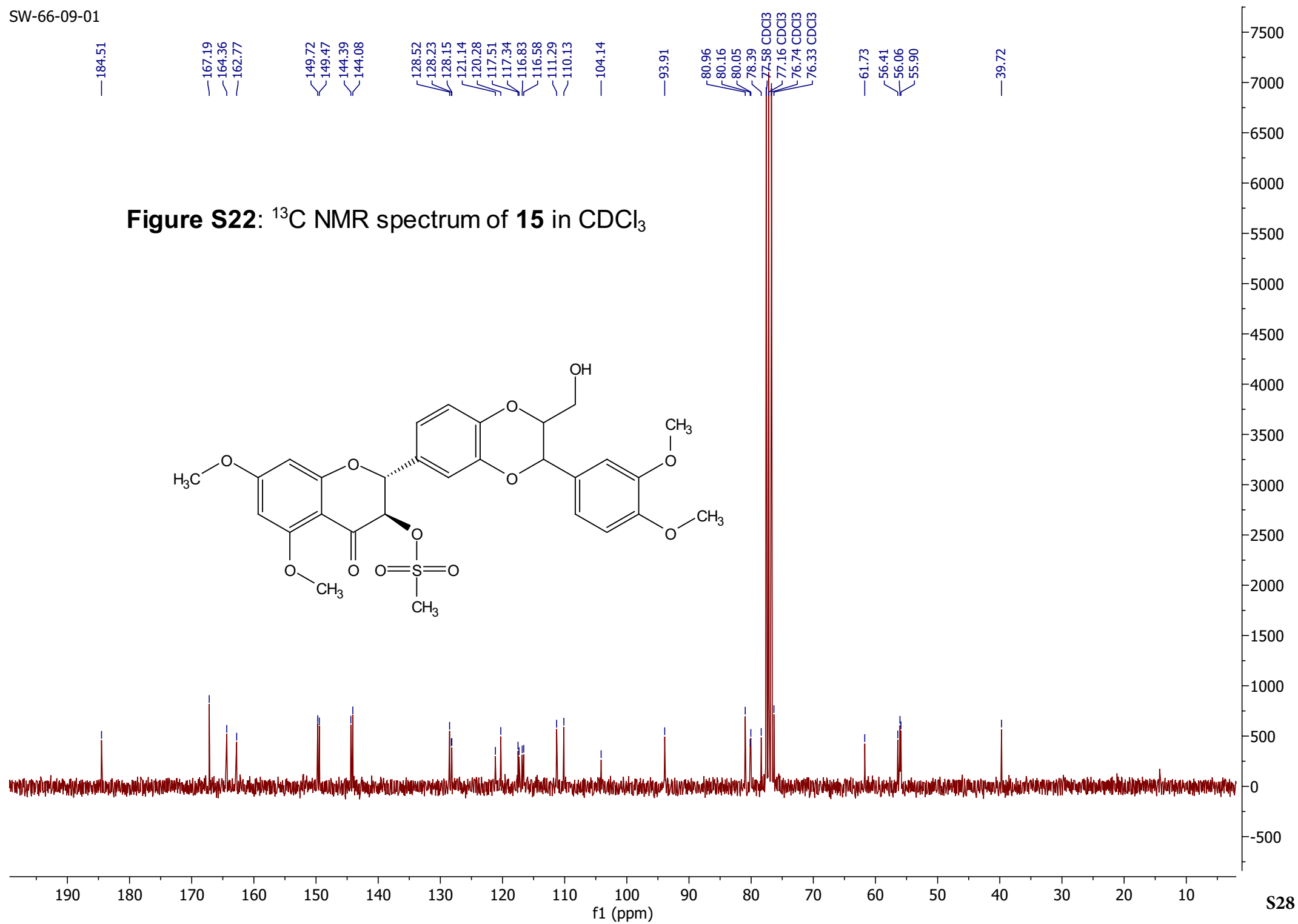


Figure S22: ^{13}C NMR spectrum of **15** in CDCl_3 

SW-66-09-01 C29H30O12S 602.1459 603.1537 **603.1536** -0.0001 -0.10

SW-66-09-01 #2702-3151 RT: 14.20-16.56 AV: 450 NL: 2.97E6
T: FTMS + c NSI Full ms [150.0000-1000.0000]

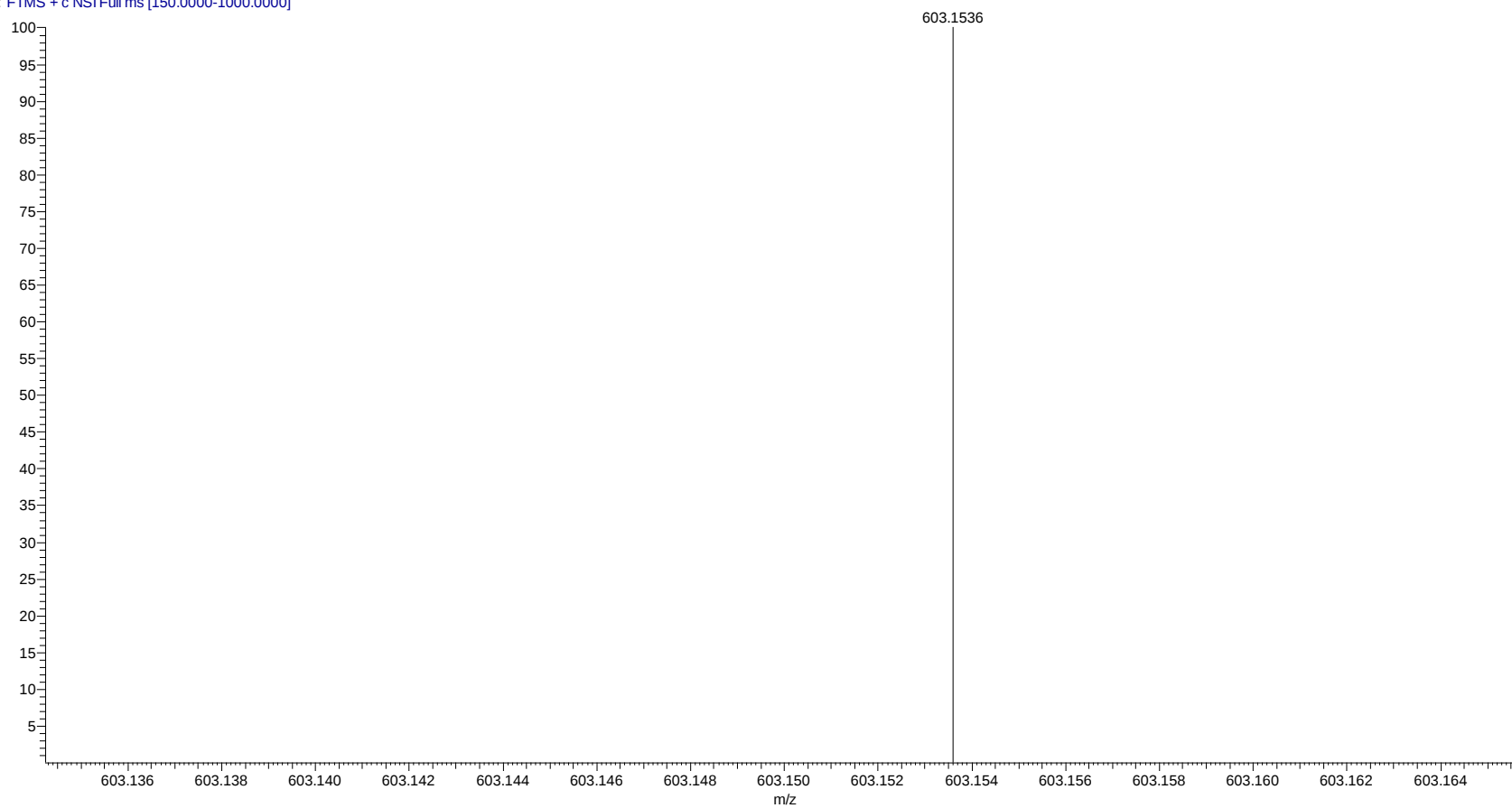
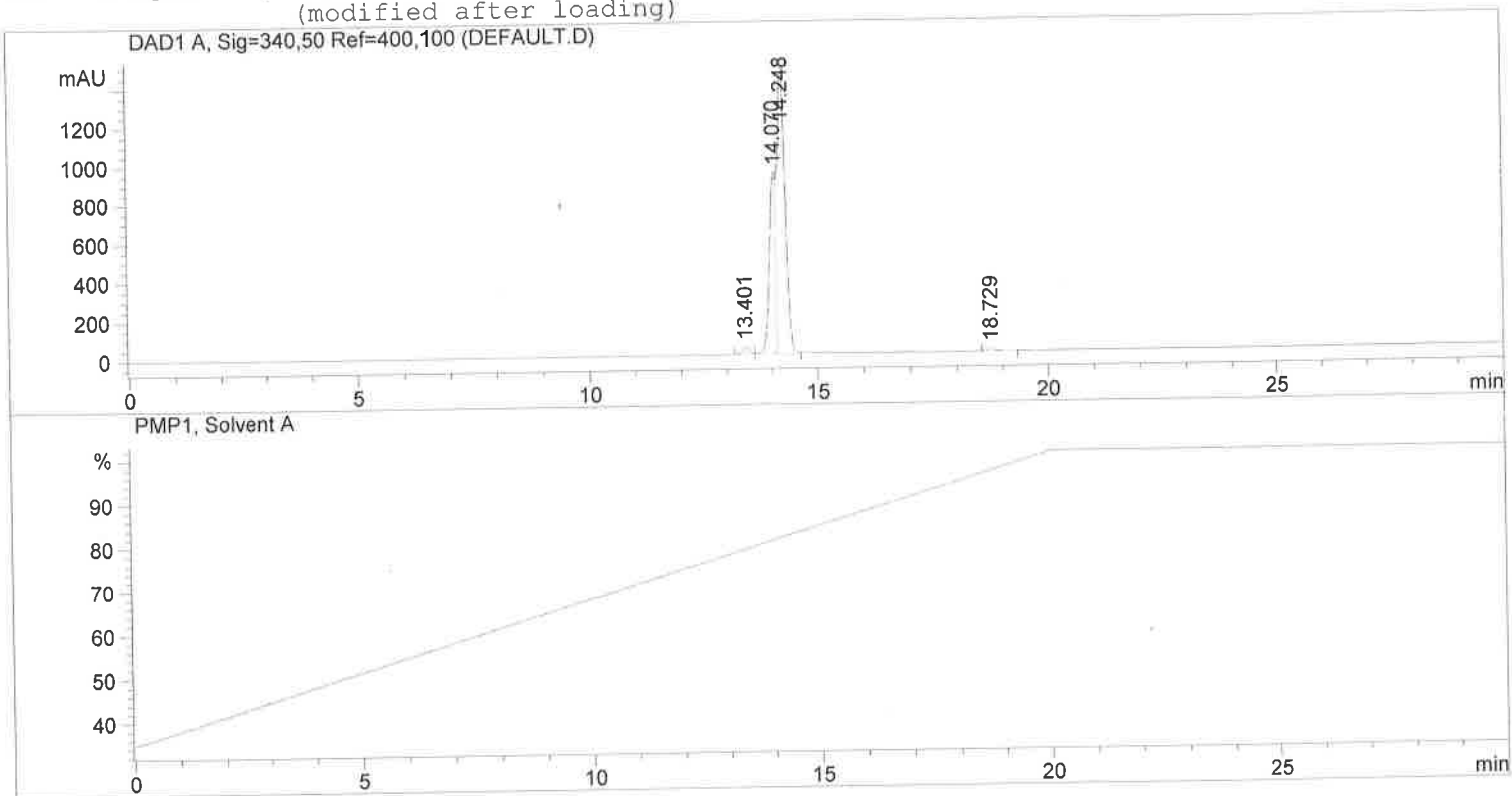


Figure S23: High resolution mass spectrum of **15**

=====
Injection Date : 4/25/2022 5:17:26 PM
Sample Name : SW-66-09-01 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/24/2022 3:10:54 PM
(modified after loading)



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

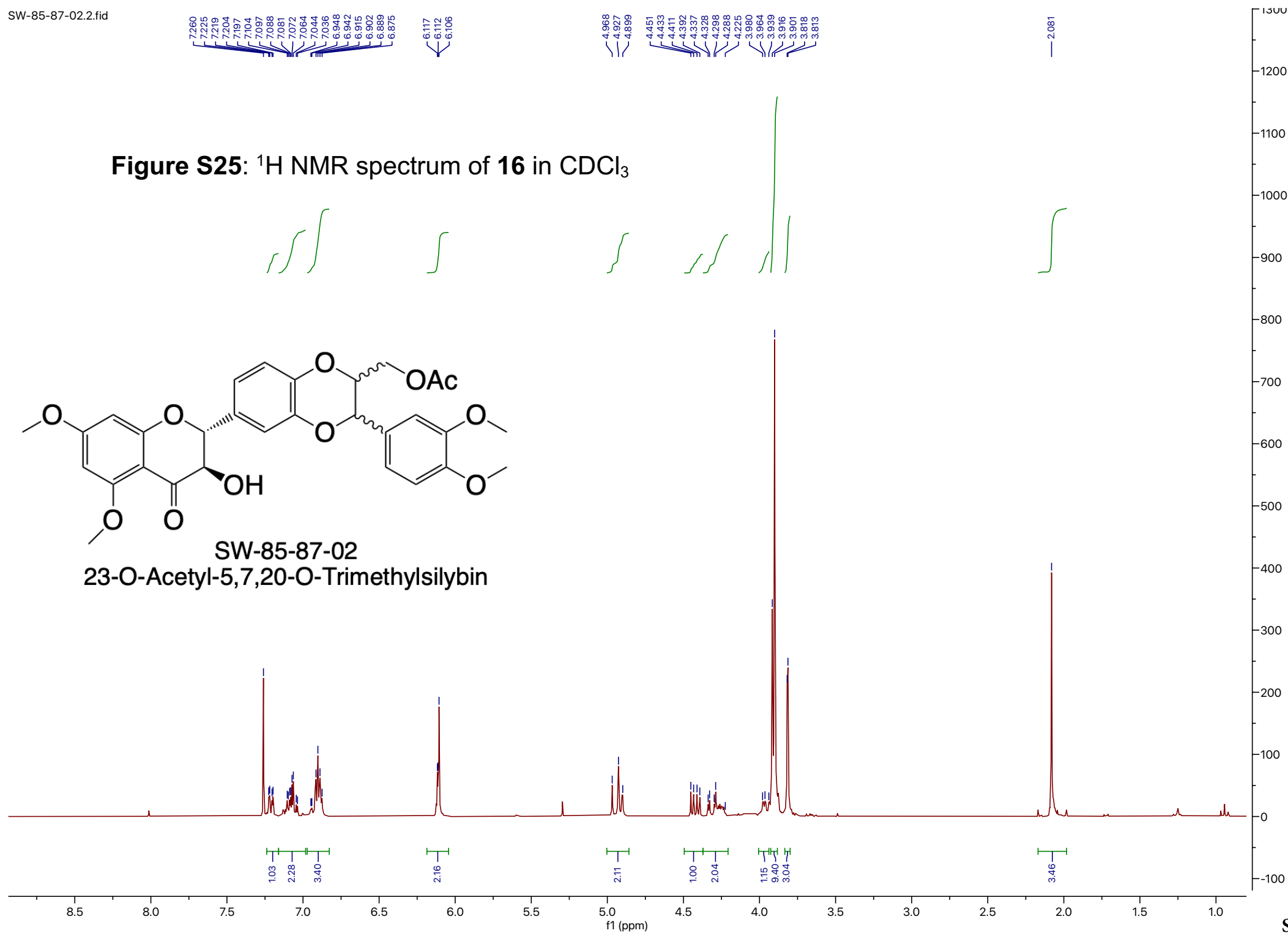
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.401	BV	0.1497	413.61719	40.99300	1.5172
2	14.070	VV	0.1430	8956.49023	941.62994	32.8529
3	14.248	VV	0.1821	1.77211e4	1455.16833	65.0018
4	18.729	BP	0.1426	171.25641	17.44182	0.6282

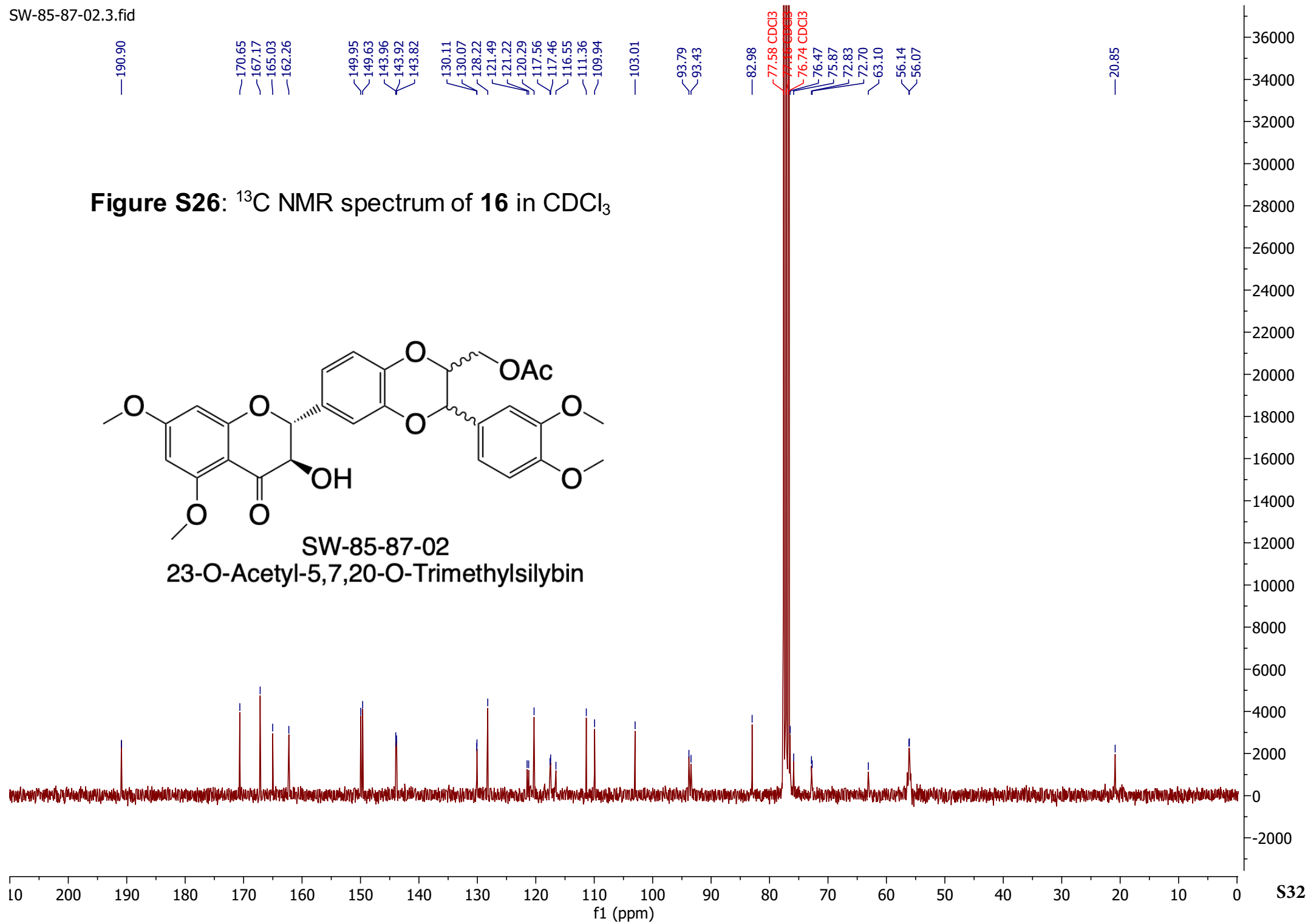
Totals : 2.72624e4 2455.23310

Results obtained with enhanced integrator!

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

Figure S24: HPLC chromatogram of 15





Sample Name	Mol Formula	MW	M+H	observed	delta	ppm
SW-85-107-01	C30H30O11	566.1789	567.1867	567.1872	0.0005	0.93

SW-85-107-01 #1543-1976 RT: 8.49-10.80 AV: 434 NL: 5.68E7
T: FTMS + c NSI Full lock ms [200.0000-1200.0000]

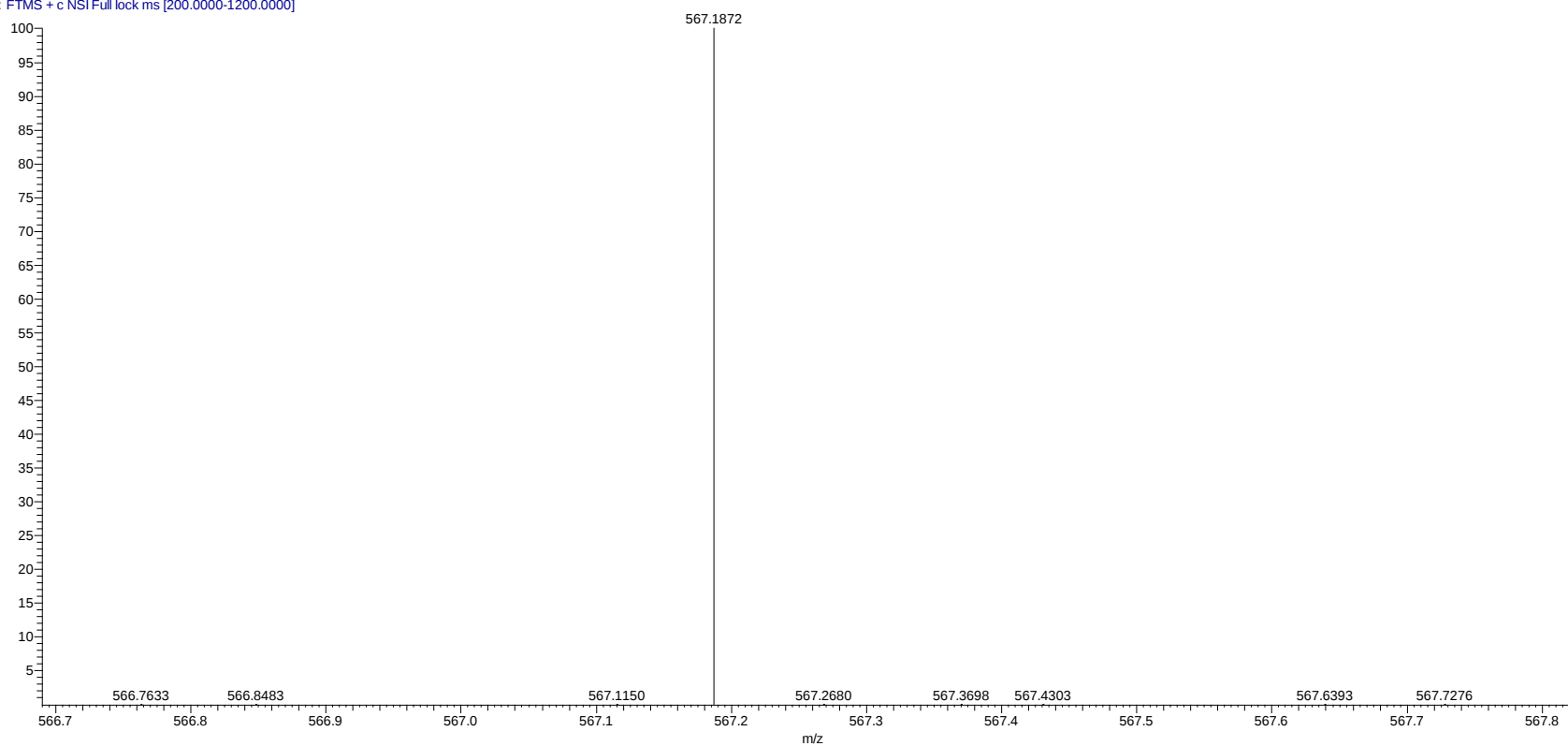
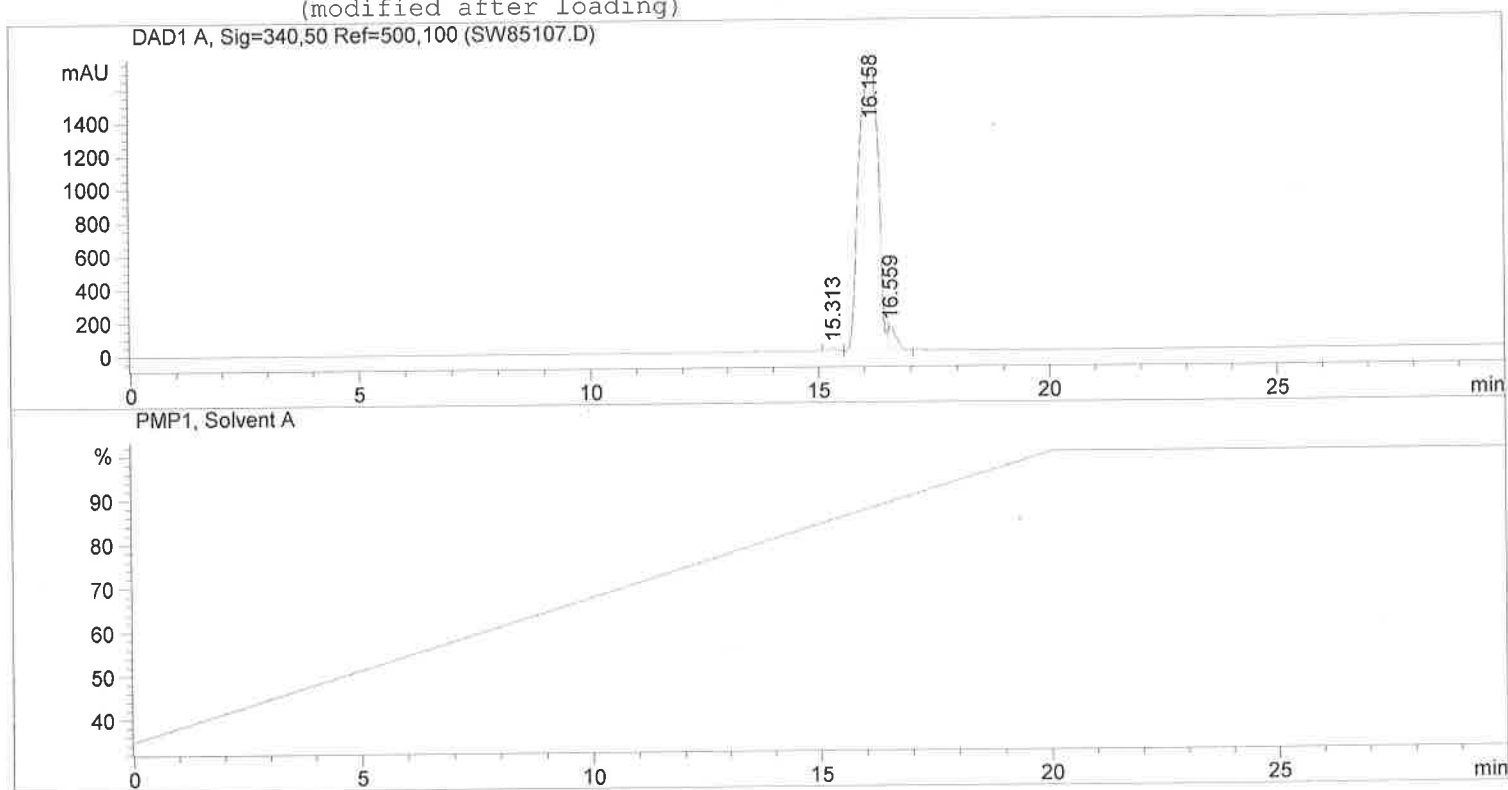


Figure S27: High resolution mass spectrum of **16**

Injection Date : 5/1/2022 1:24:14 PM
Sample Name : SW-85-107 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/30/2022 3:37:52 PM
(modified after loading)



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.313	VV	0.1959	285.76041	21.94092	0.5619
2	16.158	VV	0.4881	4.88366e4	1695.28967	96.0268
3	16.559	VV	0.1587	1734.90137	150.23711	3.4113

Totals : 5.08572e4 1867.46770

Results obtained with enhanced integrator!

*** End of Report ***

Figure S28: HPLC chromatogram of 16

S34

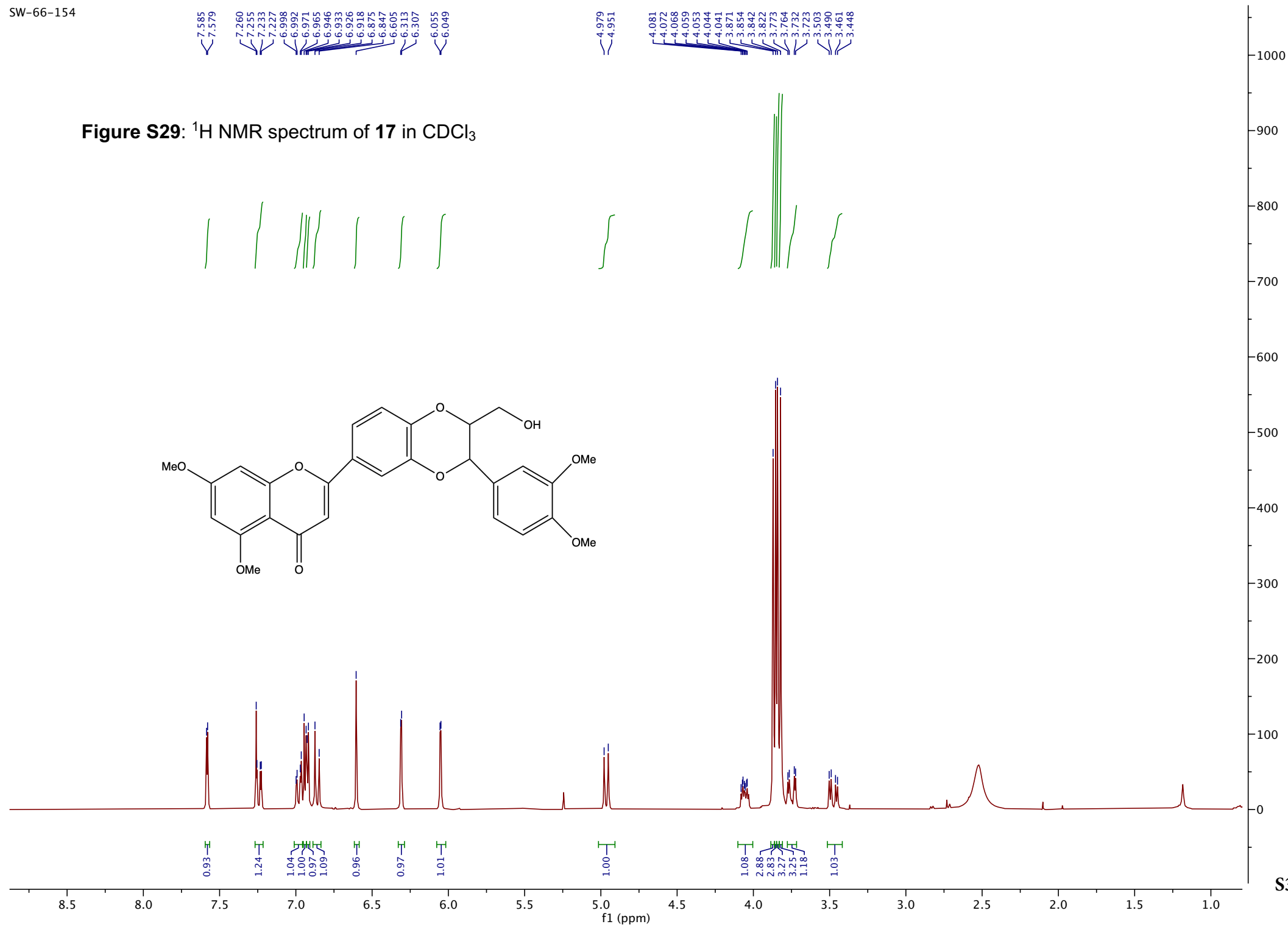
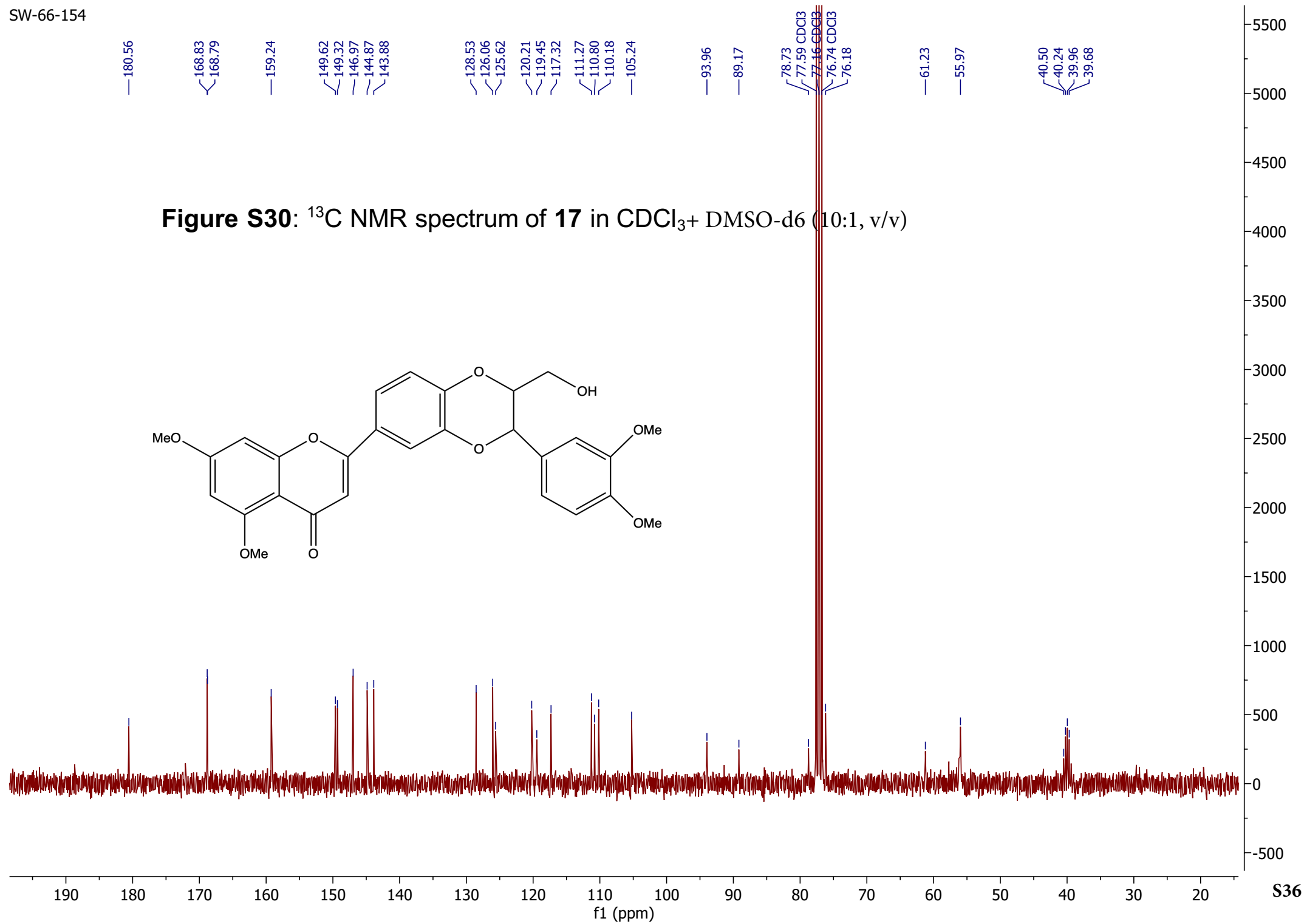
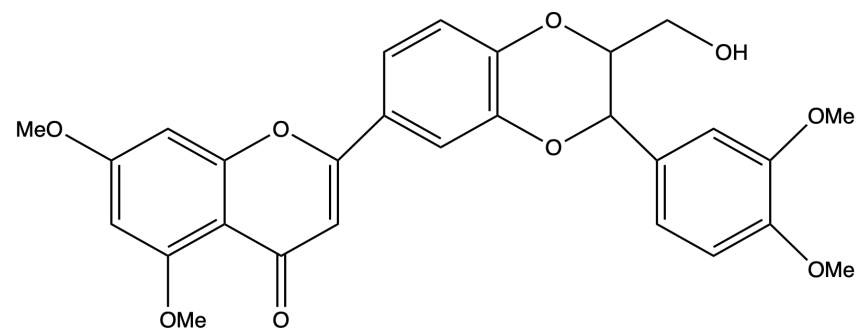


Figure S30: ^{13}C NMR spectrum of **17** in CDCl_3 + DMSO- d_6 (10:1, v/v)



SW-66-154 C₂₈H₂₆O₉ 506.1577 507.1655 **507.1670** 0.0015 2.90

SW-66-154 #4861-4916 RT: 26.28-26.57 AV: 56 NL: 3.81E8
T: FTMS + c NSI Full ms [150.0000-1000.0000]

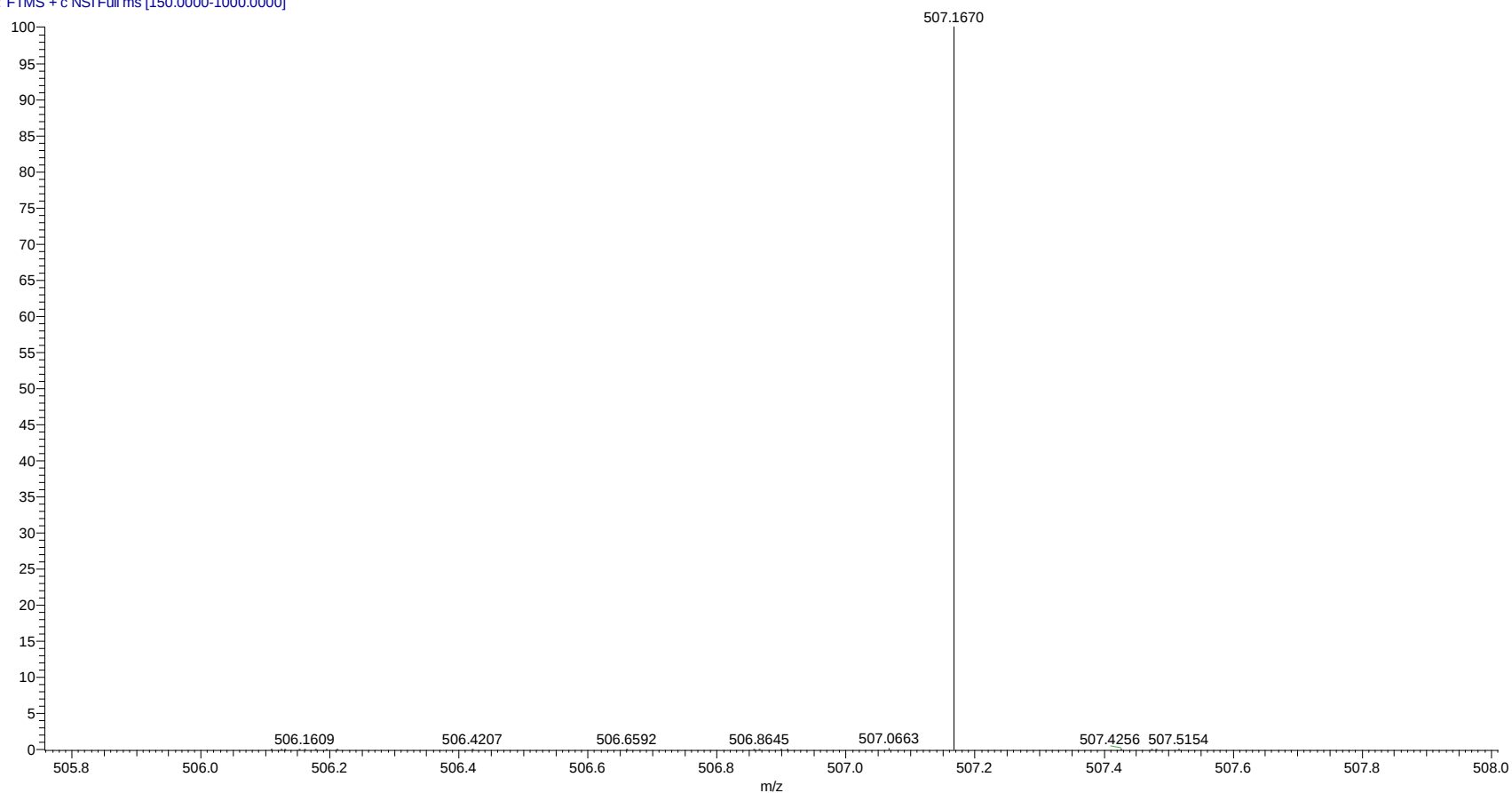
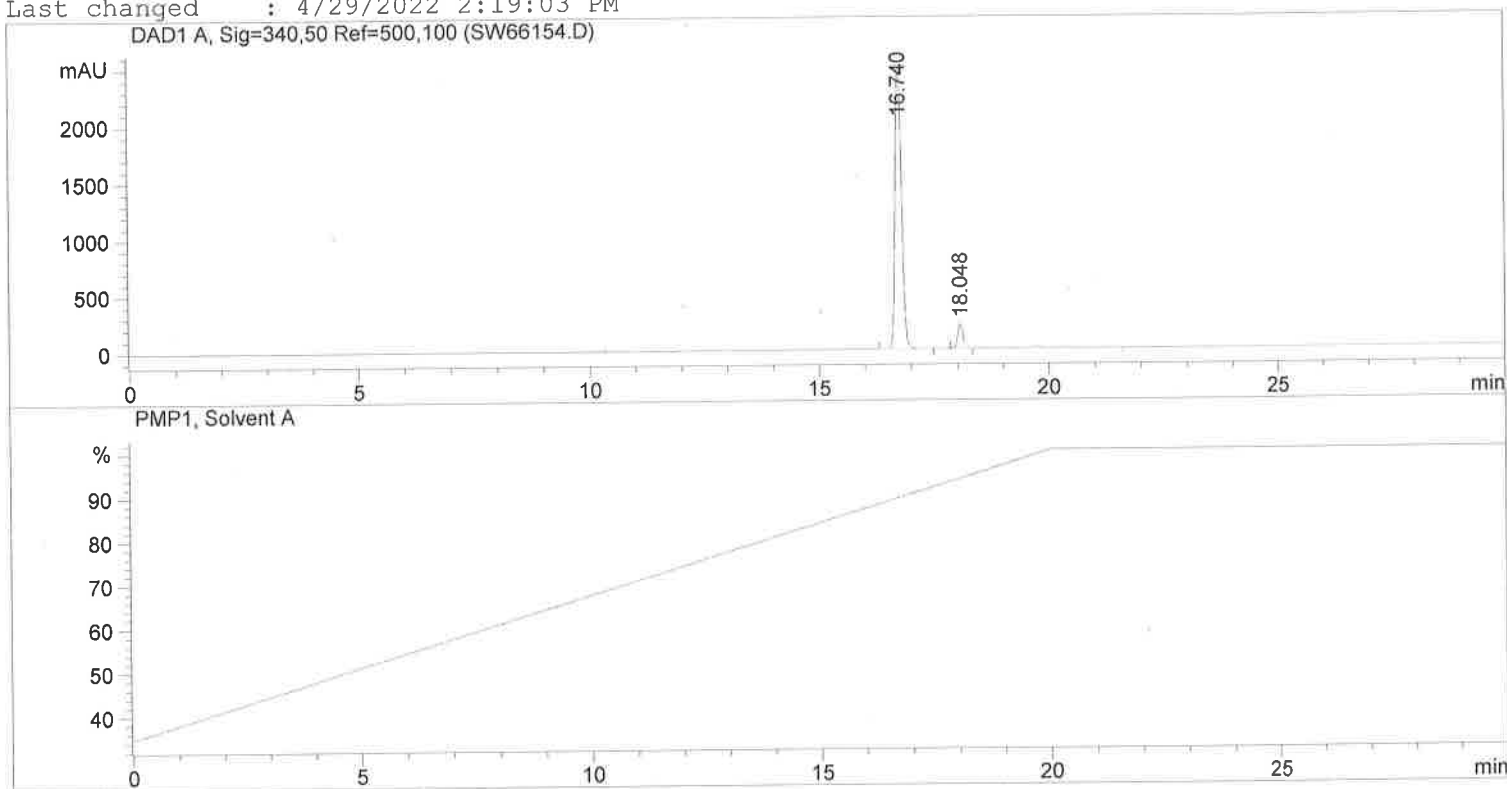


Figure S31: High resolution mass spectrum of **17**

=====
Injection Date : 4/29/2022 3:24:31 PM
Sample Name : SW-66-154 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/29/2022 2:19:03 PM
=====



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

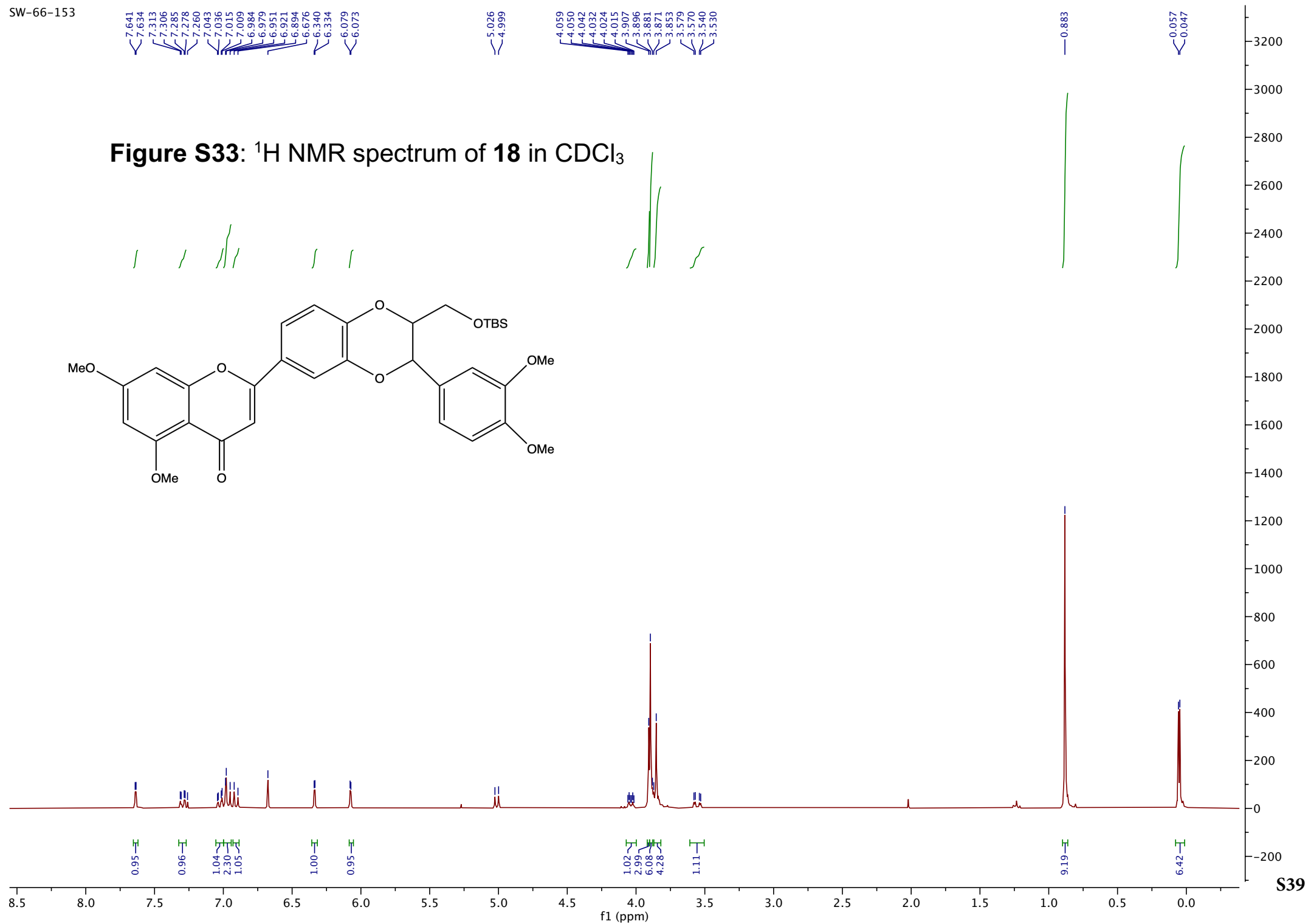
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.740	VV	0.1547	2.45456e4	2496.43213	93.3453
2	18.048	VV	0.1210	1749.89453	219.59286	6.6547

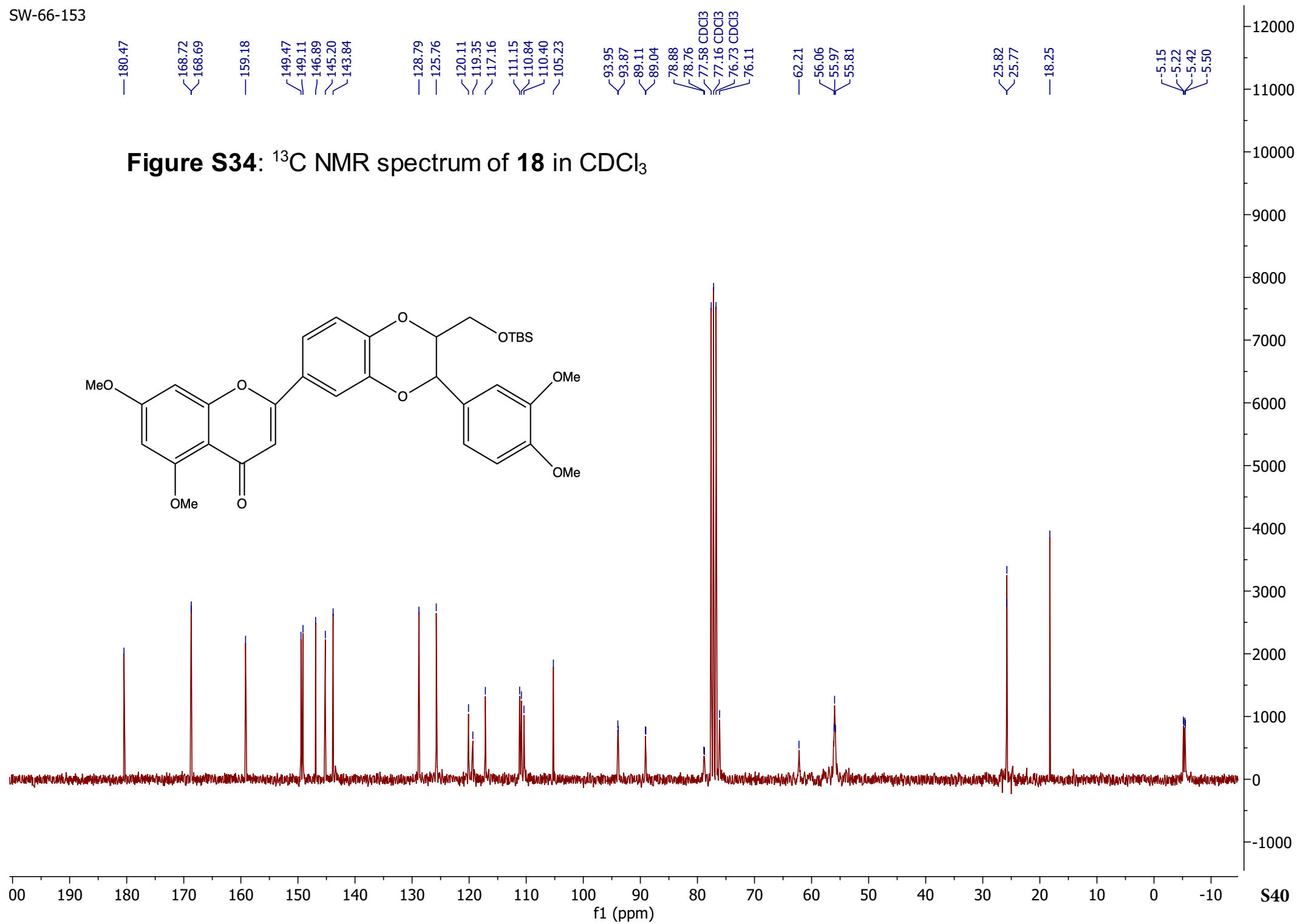
Totals : 2.62955e4 2716.02499

Results obtained with enhanced integrator!

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

Figure S32: HPLC chromatogram of 17





SW-66-153 C₃₄H₄₀O₉Si 620.2442 621.2520 **621.2530** 0.0010 1.59

SW-66-153 #3096-3146 RT: 16.24-16.51 AV: 51 NL: 1.49E8
T: FTMS + c NSI Full ms [150.0000-1000.0000]

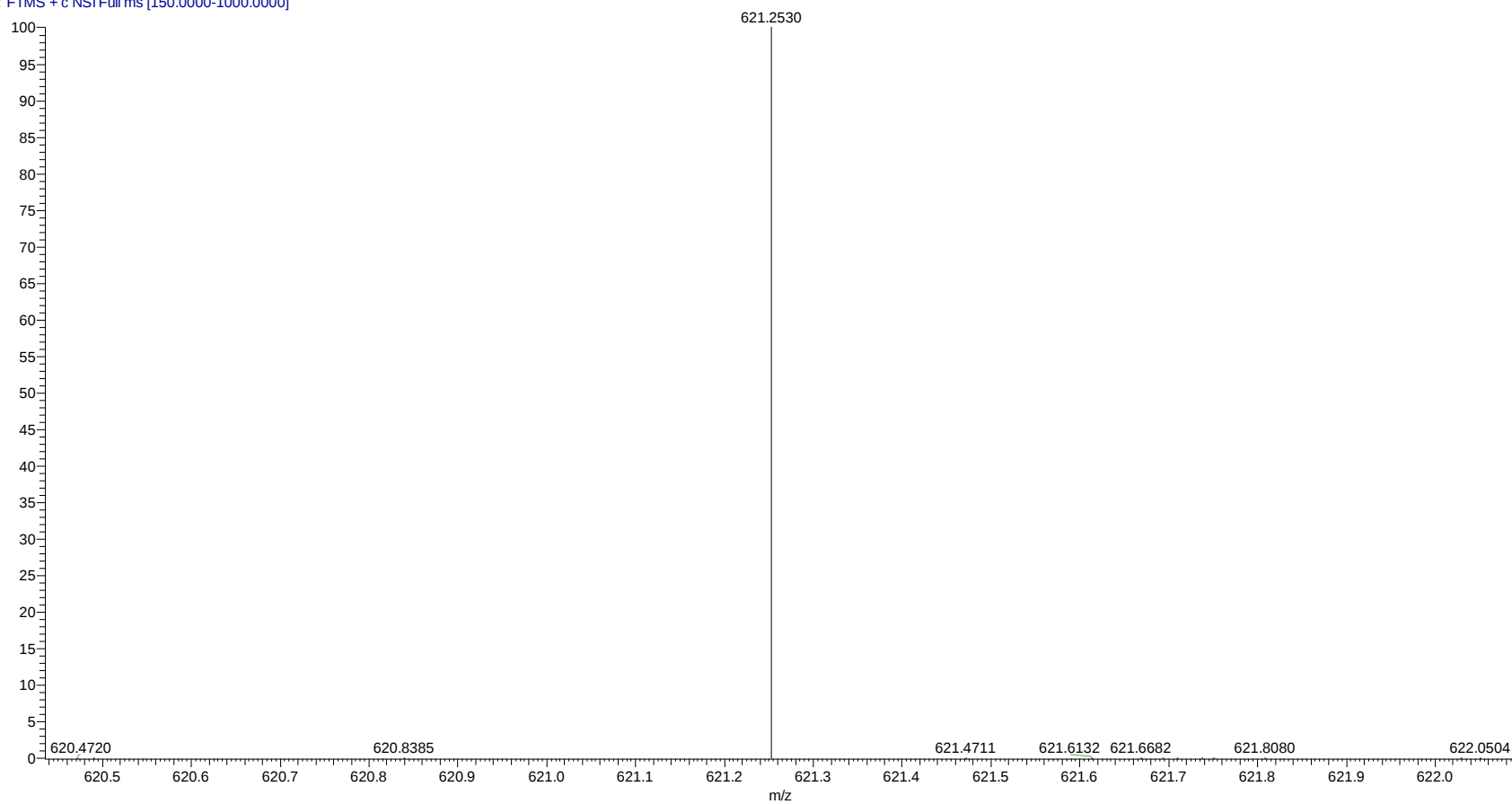
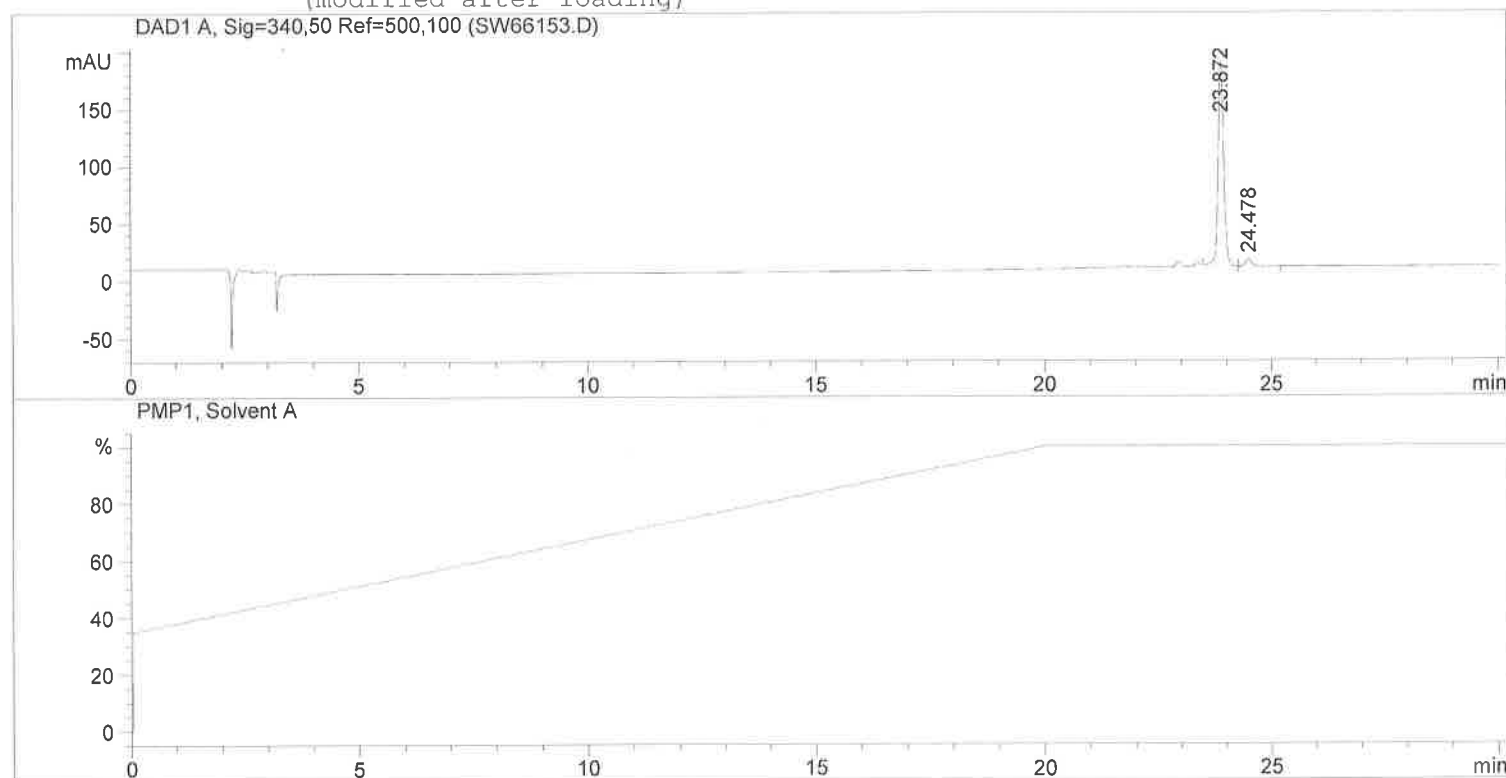


Figure S35: High resolution mass spectrum of **18**

=====

Injection Date : 2/9/2023 11:58:06 AM
Sample Name : SW-66-153 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 2/9/2023 9:06:13 AM
(modified after loading)



=====

Area Percent Report

=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	23.872	VV	0.1346	1577.18994	179.26302	95.4221
2	24.478	VP	0.1647	75.66637	6.65224	4.5779

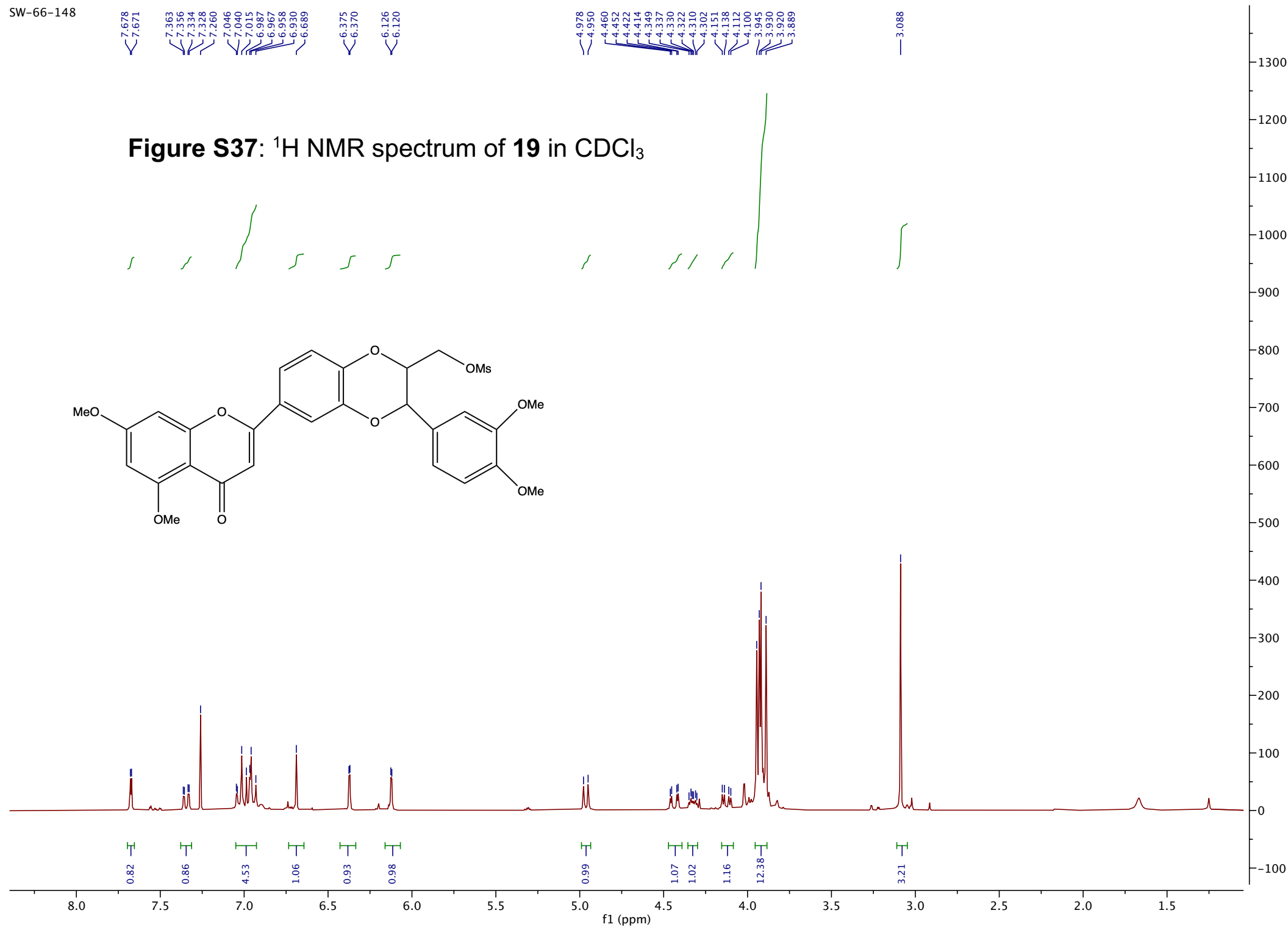
Totals : 1652.85631 185.91526

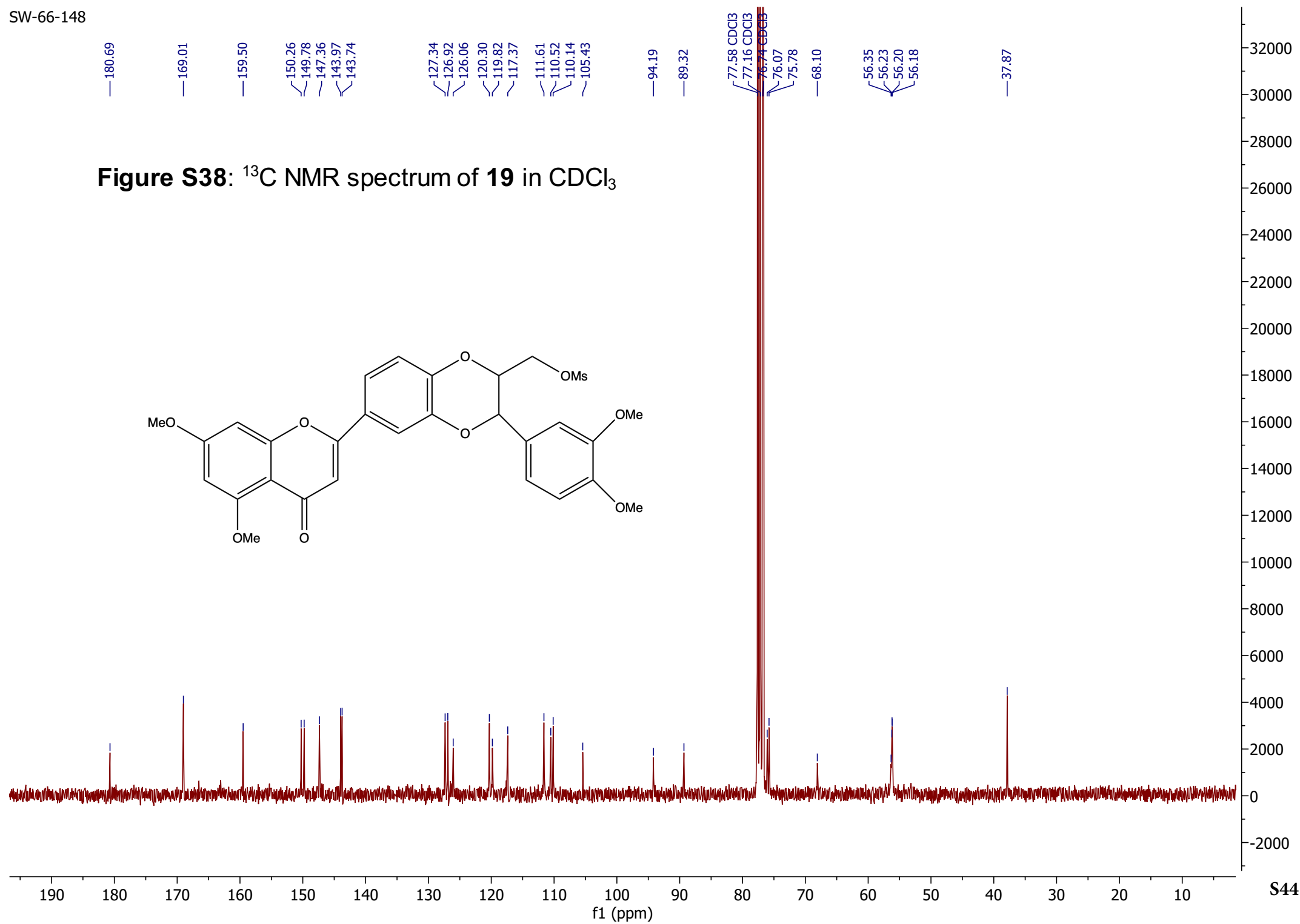
Results obtained with enhanced integrator!

=====

*** End of Report ***

Figure S36: HPLC chromatogram of 18





SW-66-148 C₂₉H₂₈O₁₁S 584.1353 585.1431 **585.1430** -0.0001 -0.15

SW-66-148 #2001-2139 RT: 10.53-11.25 AV: 139 NL: 1.24E7
T: FTMS + c NSI Full ms [150.0000-1000.0000]

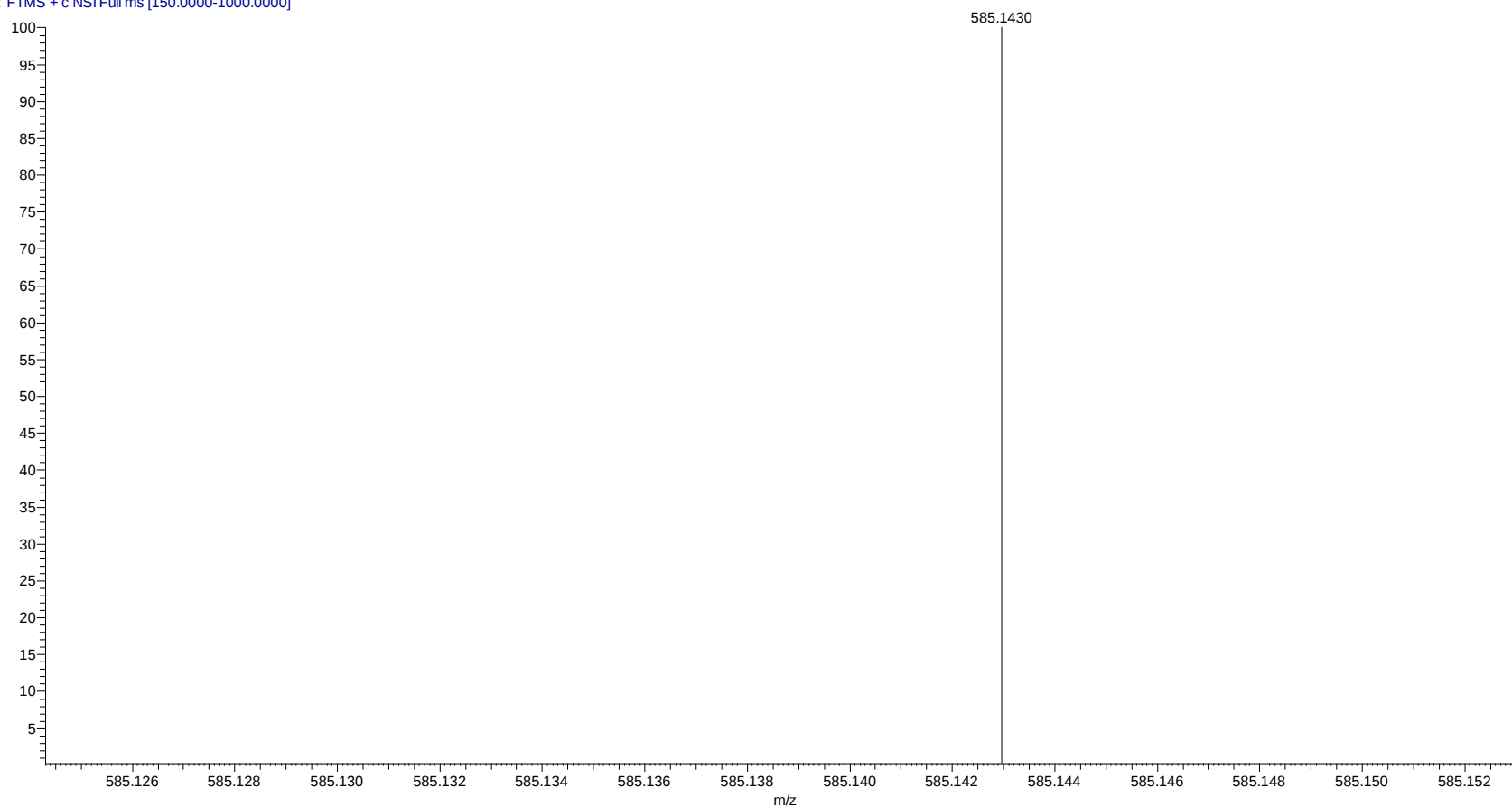
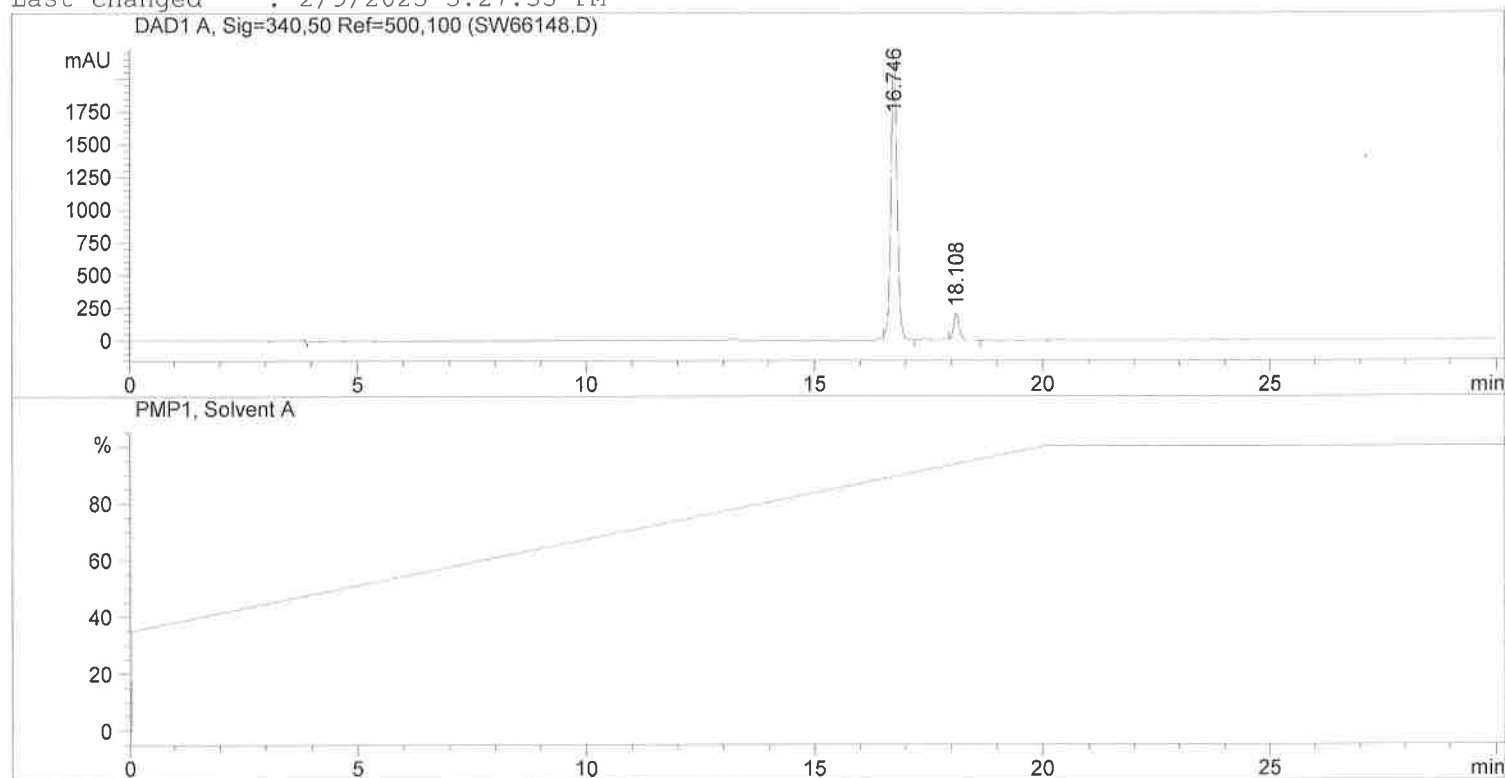


Figure S39: High resolution mass spectrum of **19**

Injection Date : 2/10/2023 11:09:26 AM
Sample Name : SW-66-148 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 2/9/2023 3:27:35 PM



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.746	BV	0.1484	2.04009e4	2116.94556	92.1364
2	18.108	VP	0.1287	1741.16675	205.84135	7.8636

Totals : 2.21421e4 2322.78691

Results obtained with enhanced integrator!

*** End of Report ***

Figure S40: HPLC chromatogram of 19

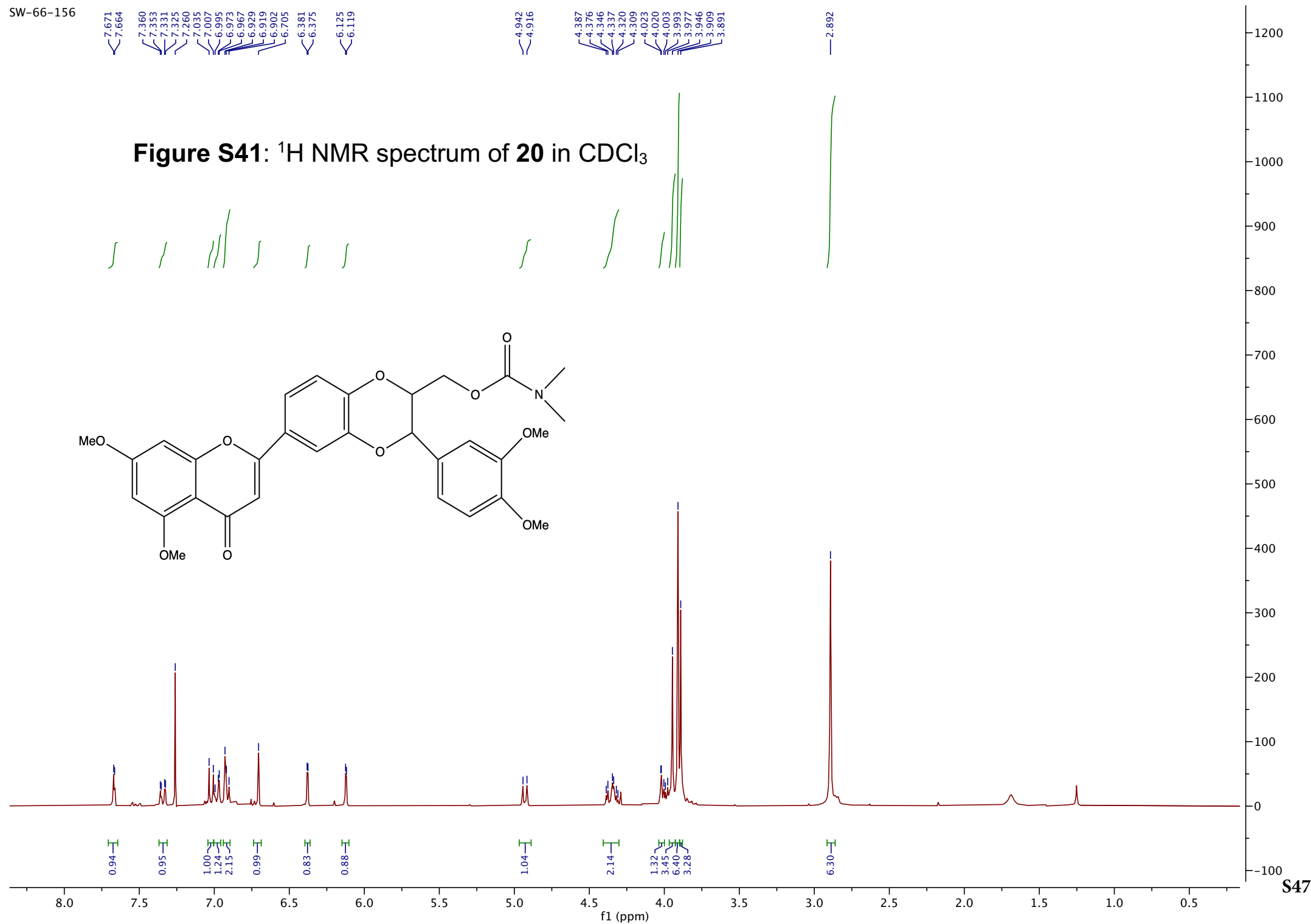
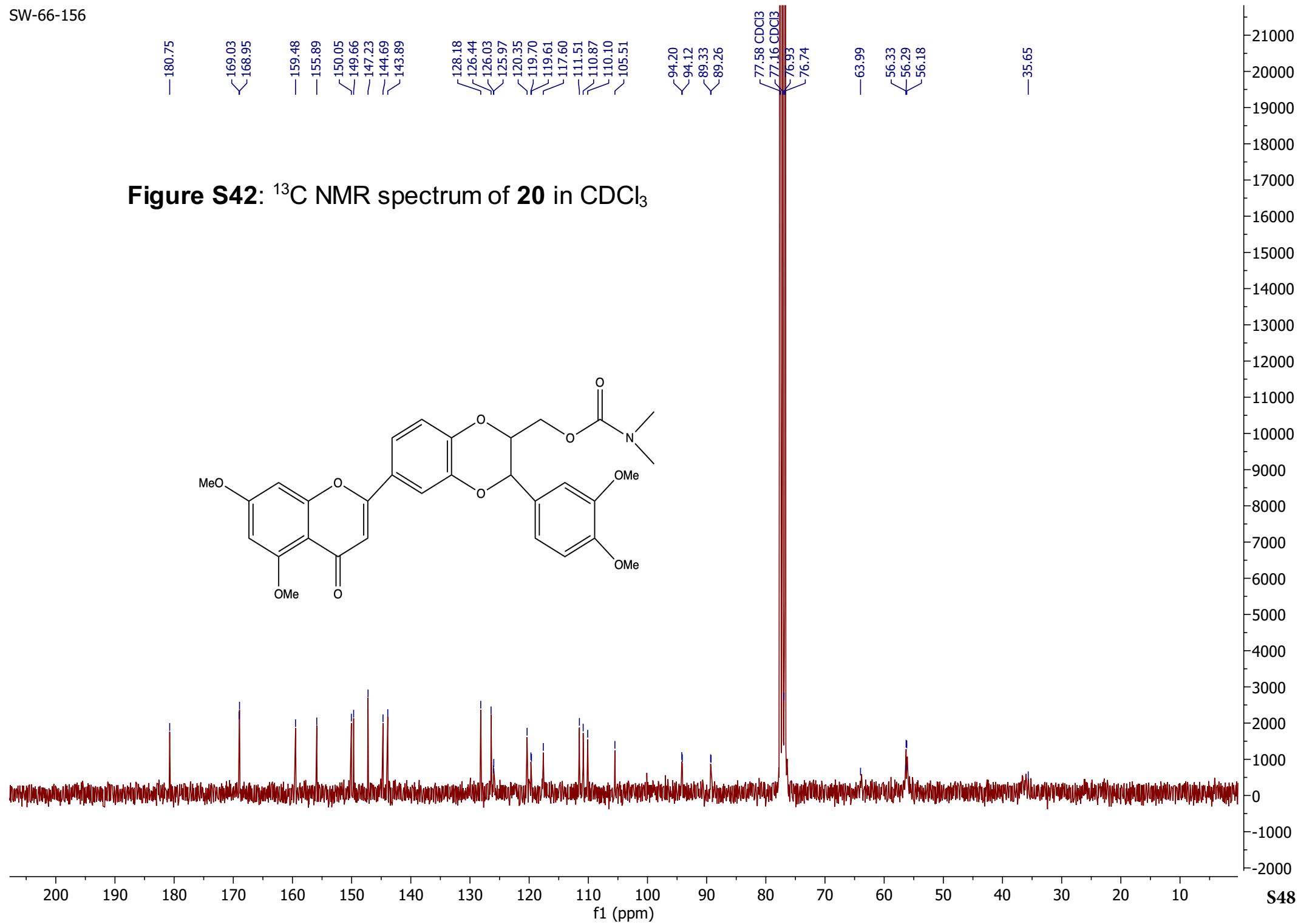


Figure S42: ^{13}C NMR spectrum of **20** in CDCl_3 

Sample Name	Mol Formula	MW	M+H	observed	delta	ppm
SW-66-156	C ₃₁ H ₃₁ NO ₁₀	577.1949	578.2027	578.2026	0.0000	-0.09

SW-66-156 #2205-2261 RT: 11.99-12.27 AV: 57 NL: 1.83E8
T: FTMS + c NSI Full ms [300.0000-1000.0000]

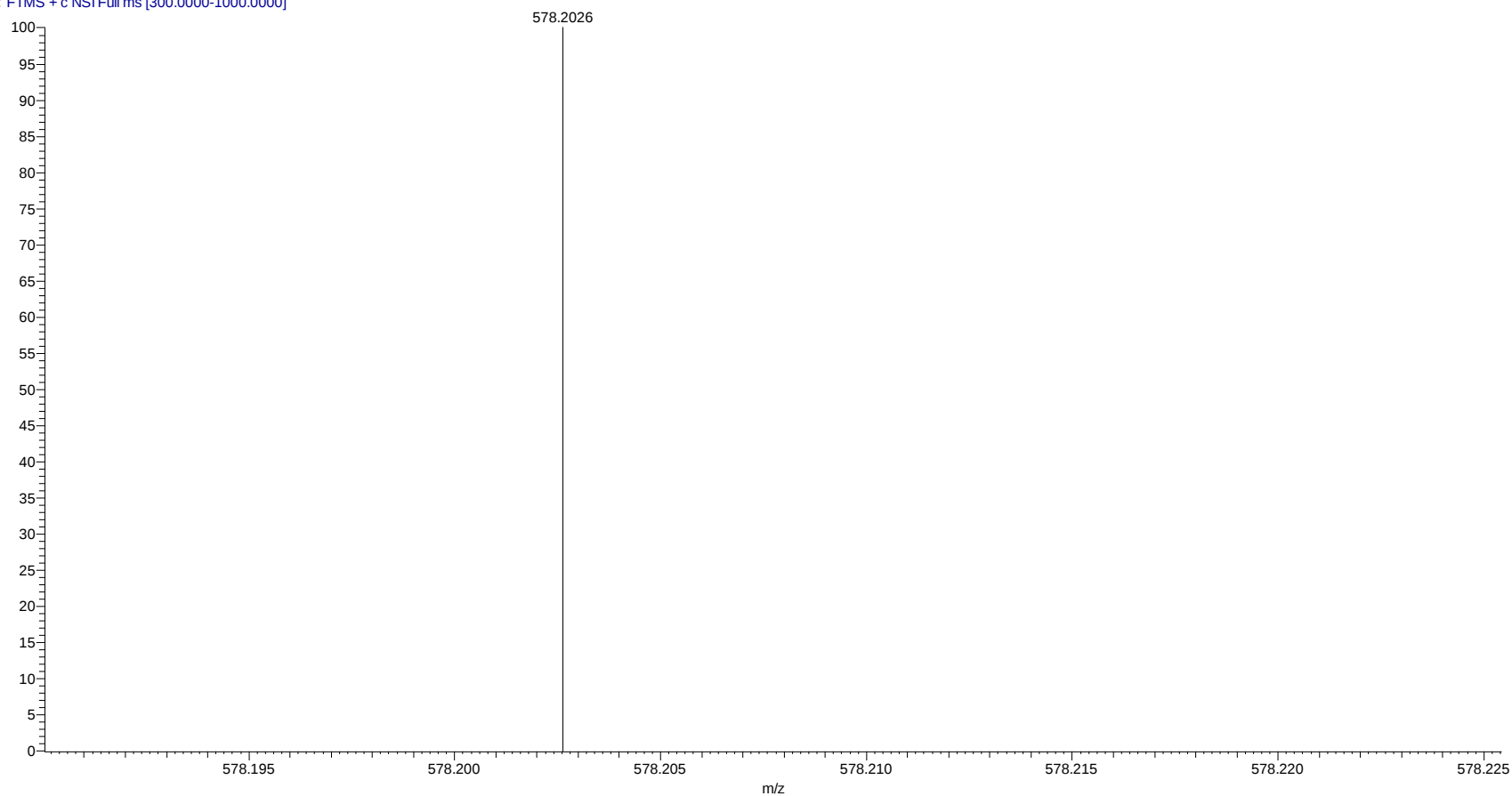
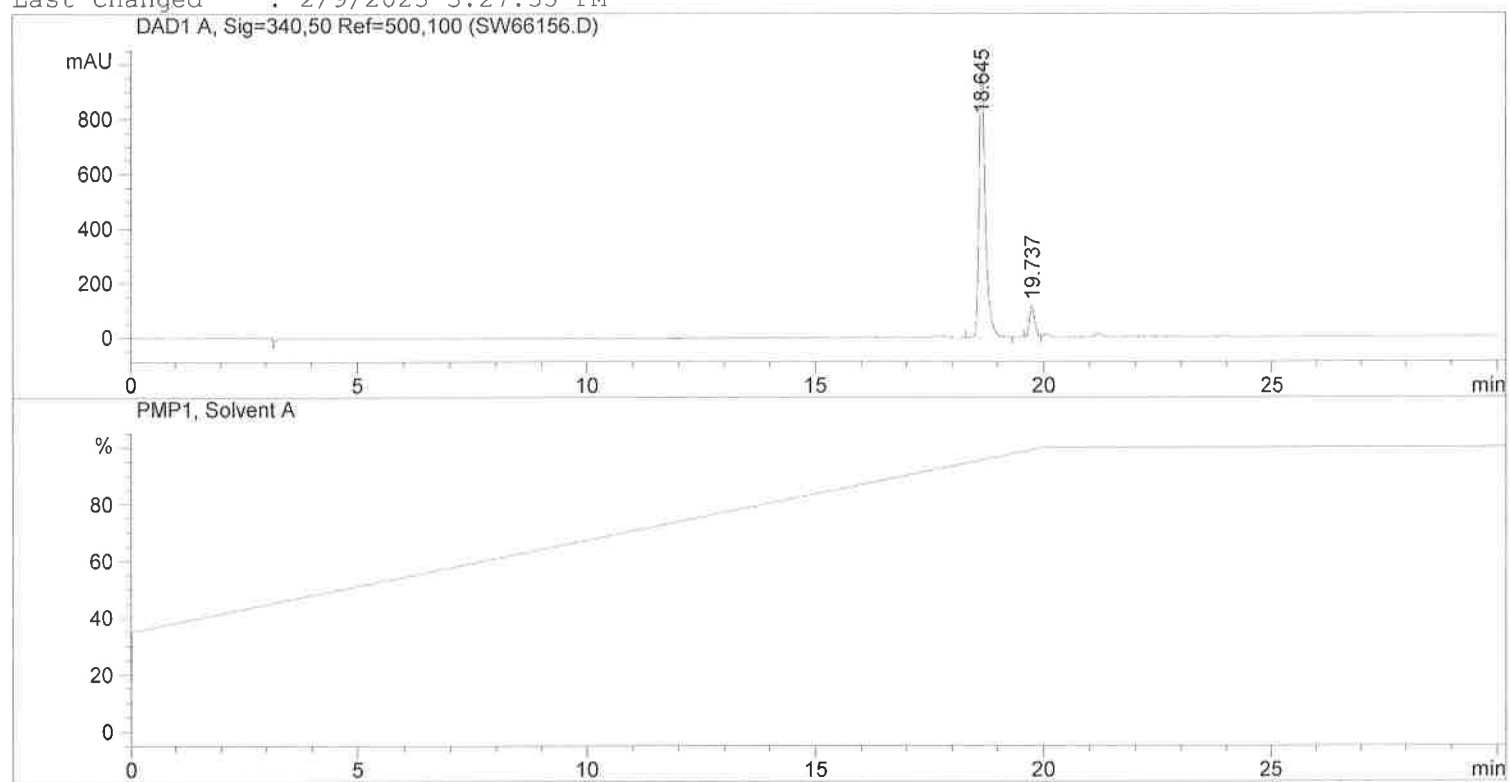


Figure S43: High resolution mass spectrum of **20**

```
=====
Injection Date   : 2/11/2023 1:12:49 PM
Sample Name      : SW-66-156
Acq. Operator    : h5
Method           : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed     : 2/9/2023 3:27:35 PM
Location         : Vial 1
=====
```



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

```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
```

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	18.645	VB	0.1419	9441.60840	1002.03442	91.1191
2	19.737	PV	0.1216	920.22937	114.67751	8.8809

Totals : 1.03618e4 1116.71193

Results obtained with enhanced integrator!

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

Figure S44: HPLC chromatogram of 20

7.665
7.659
7.349
7.343
7.321
7.314
7.260
7.020
6.992
6.969
6.964
6.925
6.919
6.897
6.696
6.371
6.365
6.116
6.110
4.927
4.902
4.370
4.360
4.350
4.344
4.326
4.318
4.283
4.031
4.013
3.987
3.970
3.938
3.903
3.882
3.285
3.262
3.246
1.148
1.125
1.101

Figure S45: ^1H NMR spectrum of **21** in CDCl_3

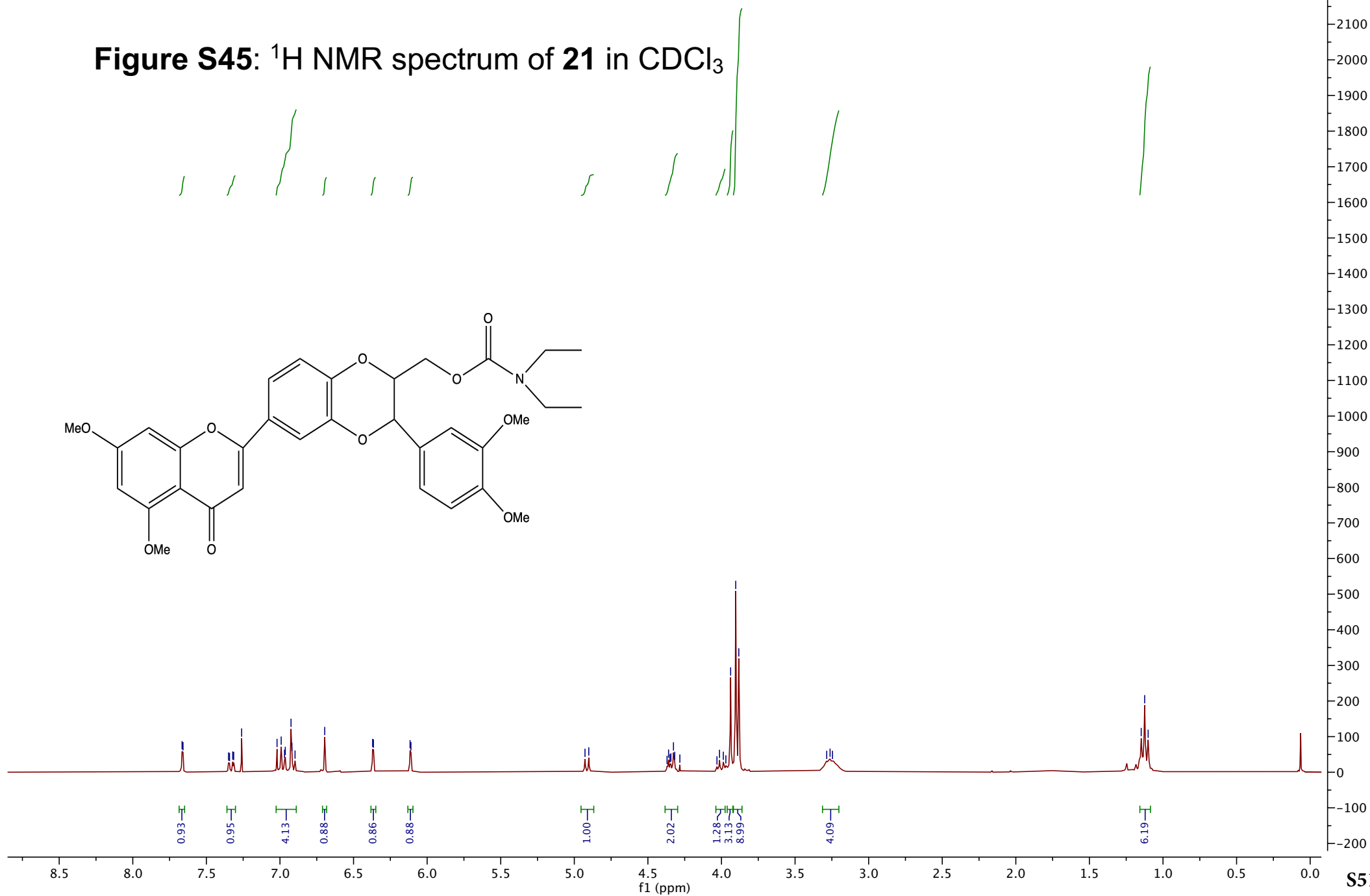
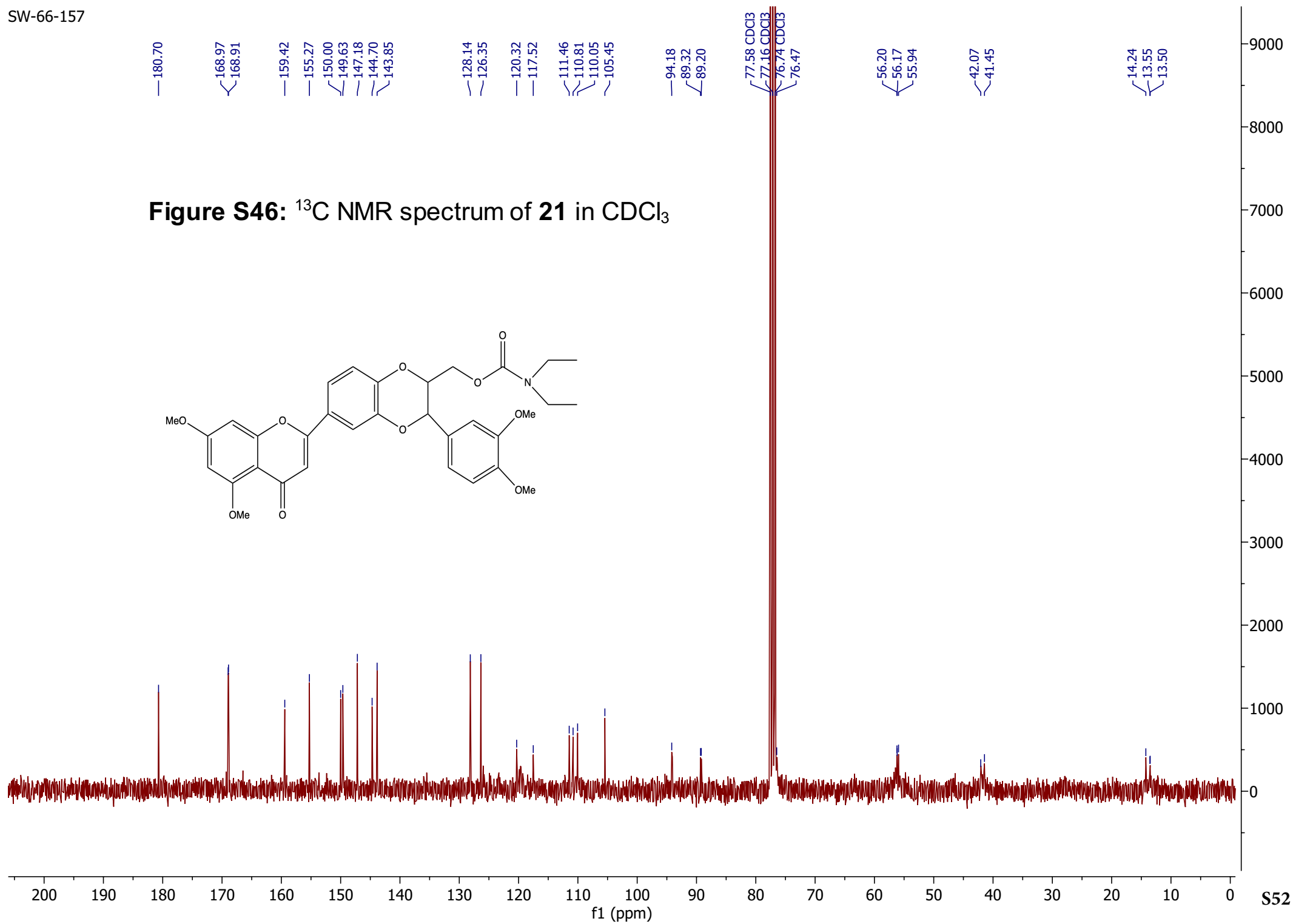
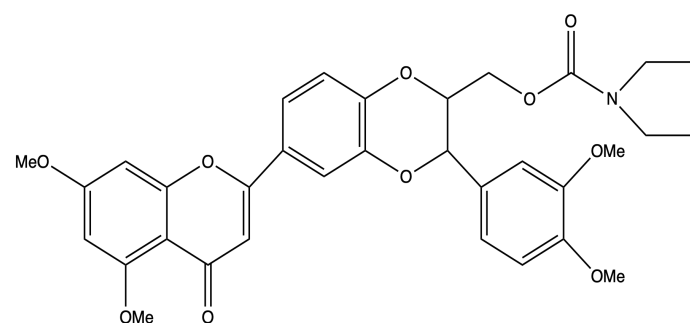


Figure S46: ^{13}C NMR spectrum of **21** in CDCl_3 

Sample Name	Mol Formula	MW	M+H	observed	delta	ppm
SW-66-157	C33H35NO10	605.2261	606.2339	606.2339	0.0000	0.00

SW-66-157 #2453-2503 RT: 13.26-13.52 AV: 51 NL: 7.37E7
T: FTMS + c NSI Full ms [300.0000-1000.0000]

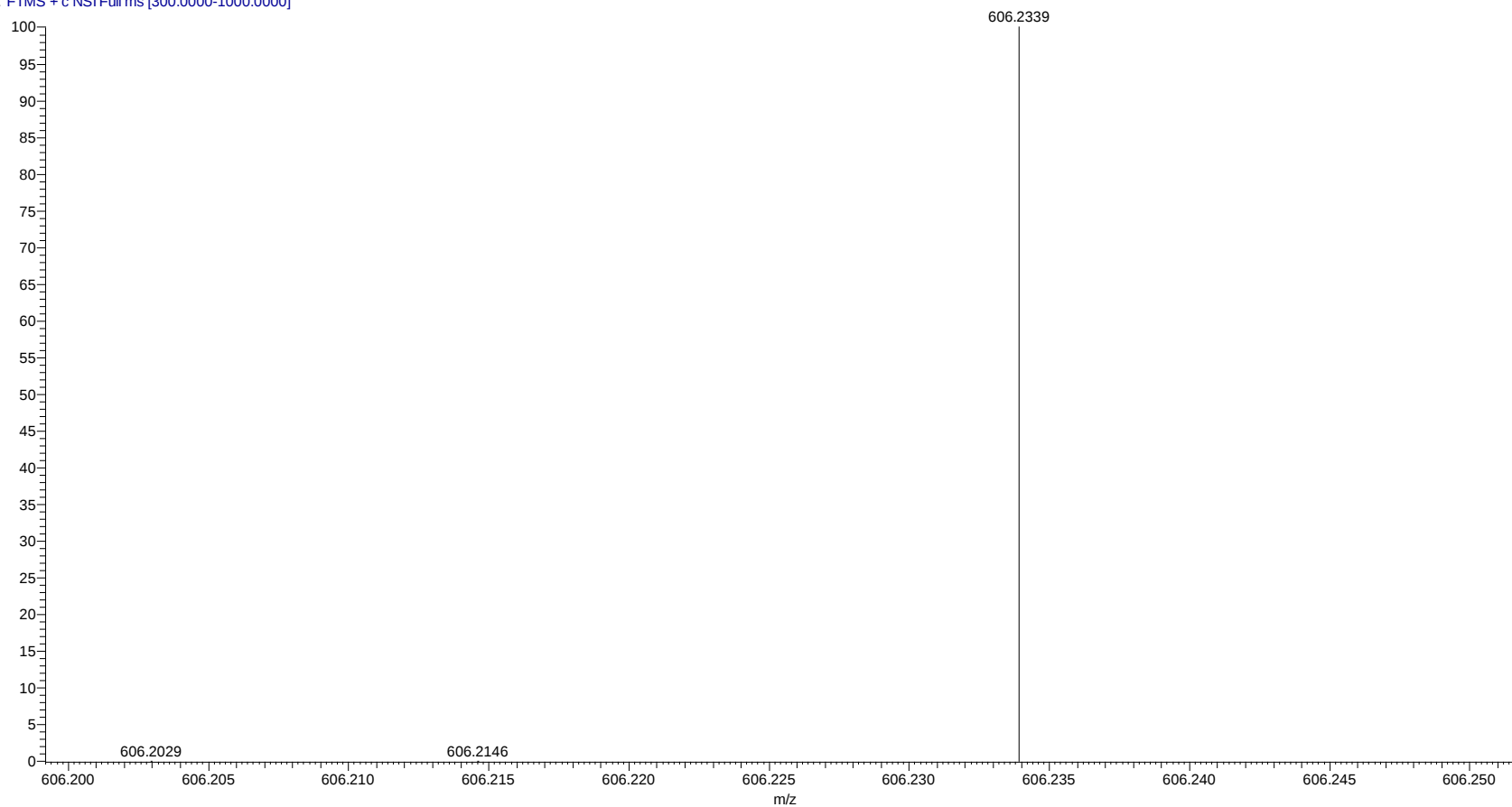
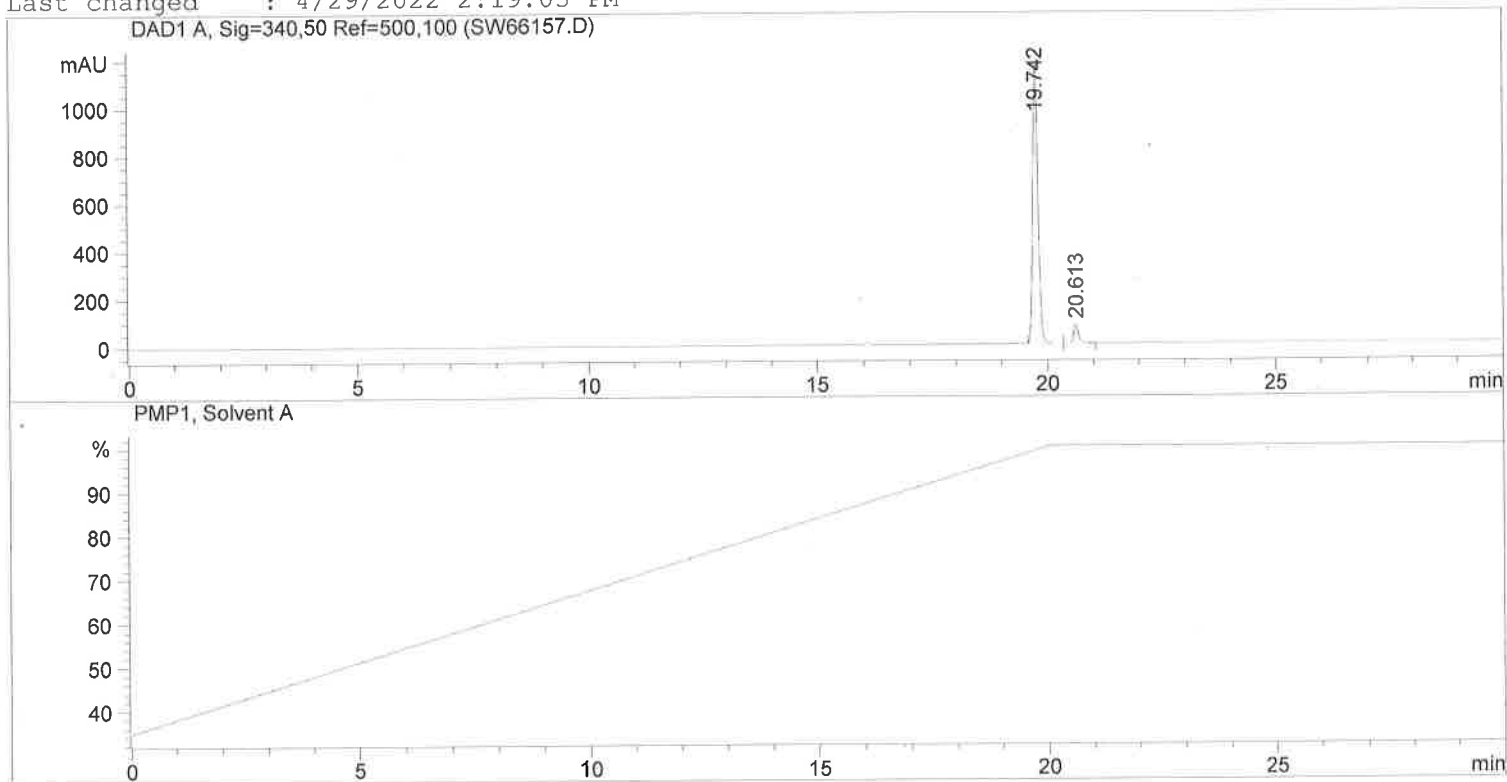


Figure S47: High resolution mass spectrum of **21**

=====
Injection Date : 4/29/2022 1:24:59 PM
Sample Name : SW-66-157 Location : Vial 1
Acq. Operator :
Acq. Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/29/2022 9:21:10 AM
(modified after loading)
Analysis Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/29/2022 2:19:03 PM
=====



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	19.742	BV	0.1212	9231.31445	1180.81738	94.2247
2	20.613	VP	0.1146	565.81049	76.24522	5.7753

Totals : 9797.12494 1257.06260

Results obtained with enhanced integrator!

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

Figure S48: HPLC chromatogram of 21

S54

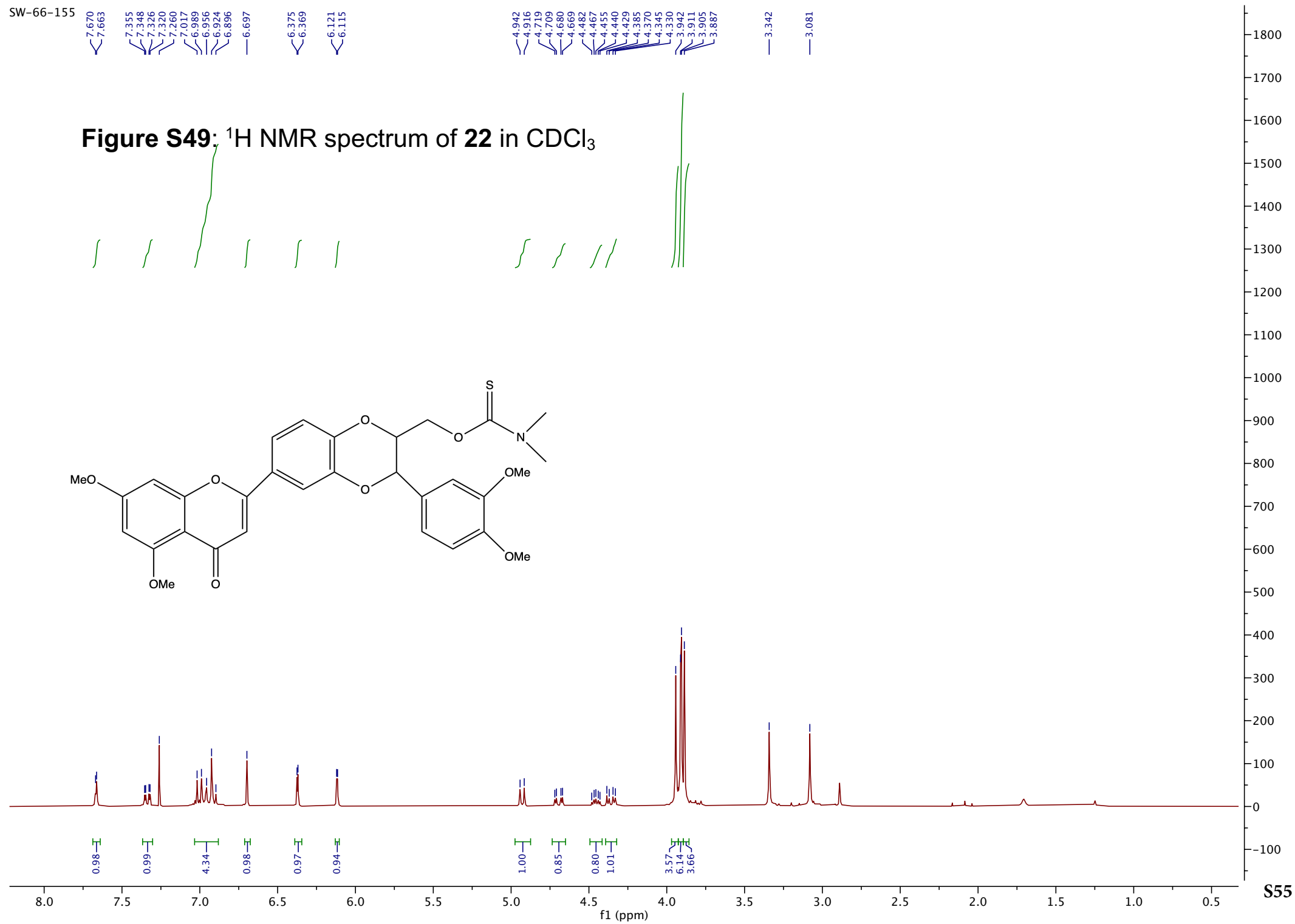
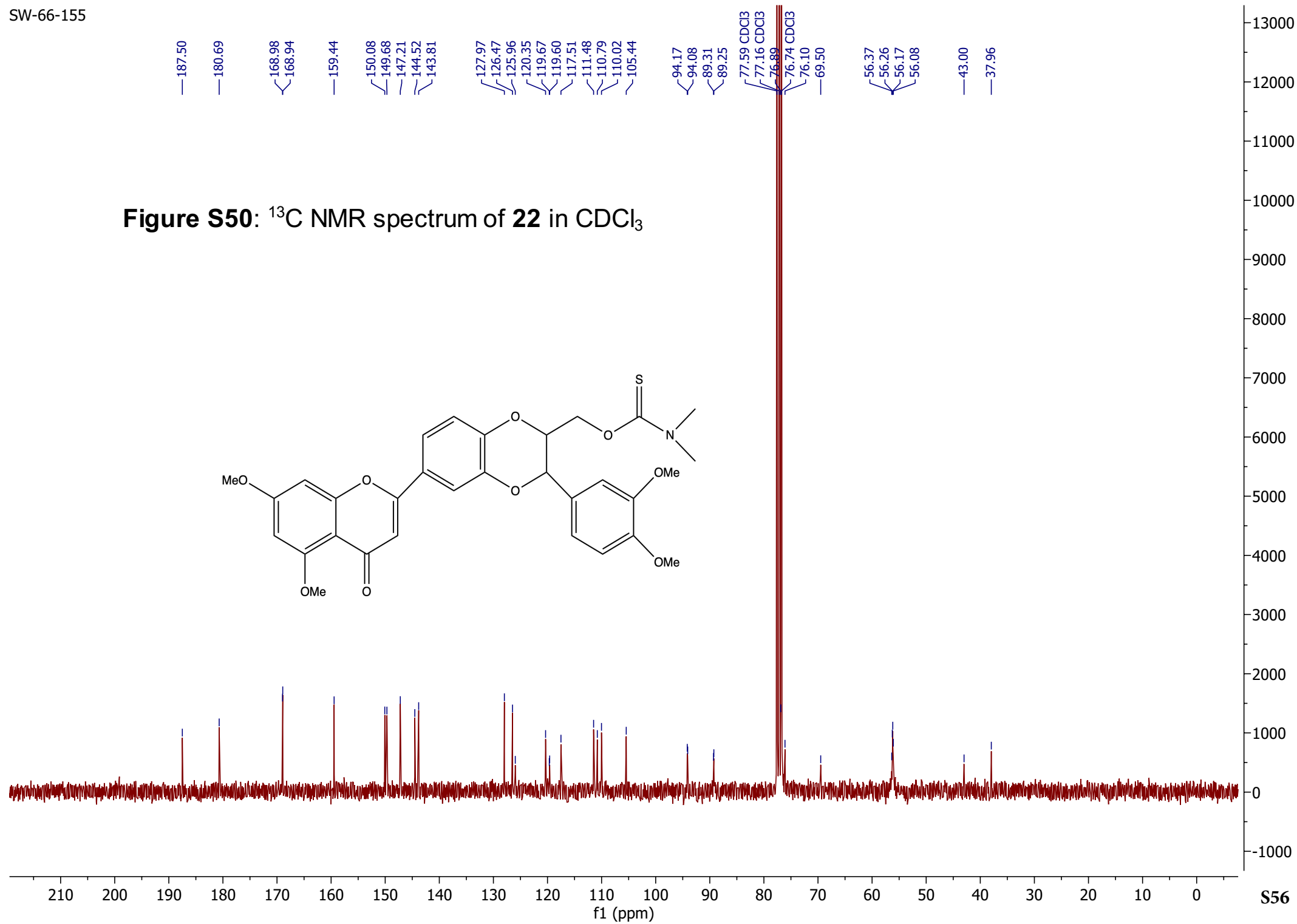


Figure S50: ^{13}C NMR spectrum of **22** in CDCl_3 

Sample Name	Mol Formula	MW	M+H	observed	delta	ppm
SW-66-155	C ₃₁ H ₃₁ NO ₉ S	593.1720	594.1798	594.1799	0.0001	0.17

SW-66-155 #2499 RT: 13.50 AV: 1 NL: 6.60E7
T: FTMS + c NSI Full ms [300.0000-1000.0000]

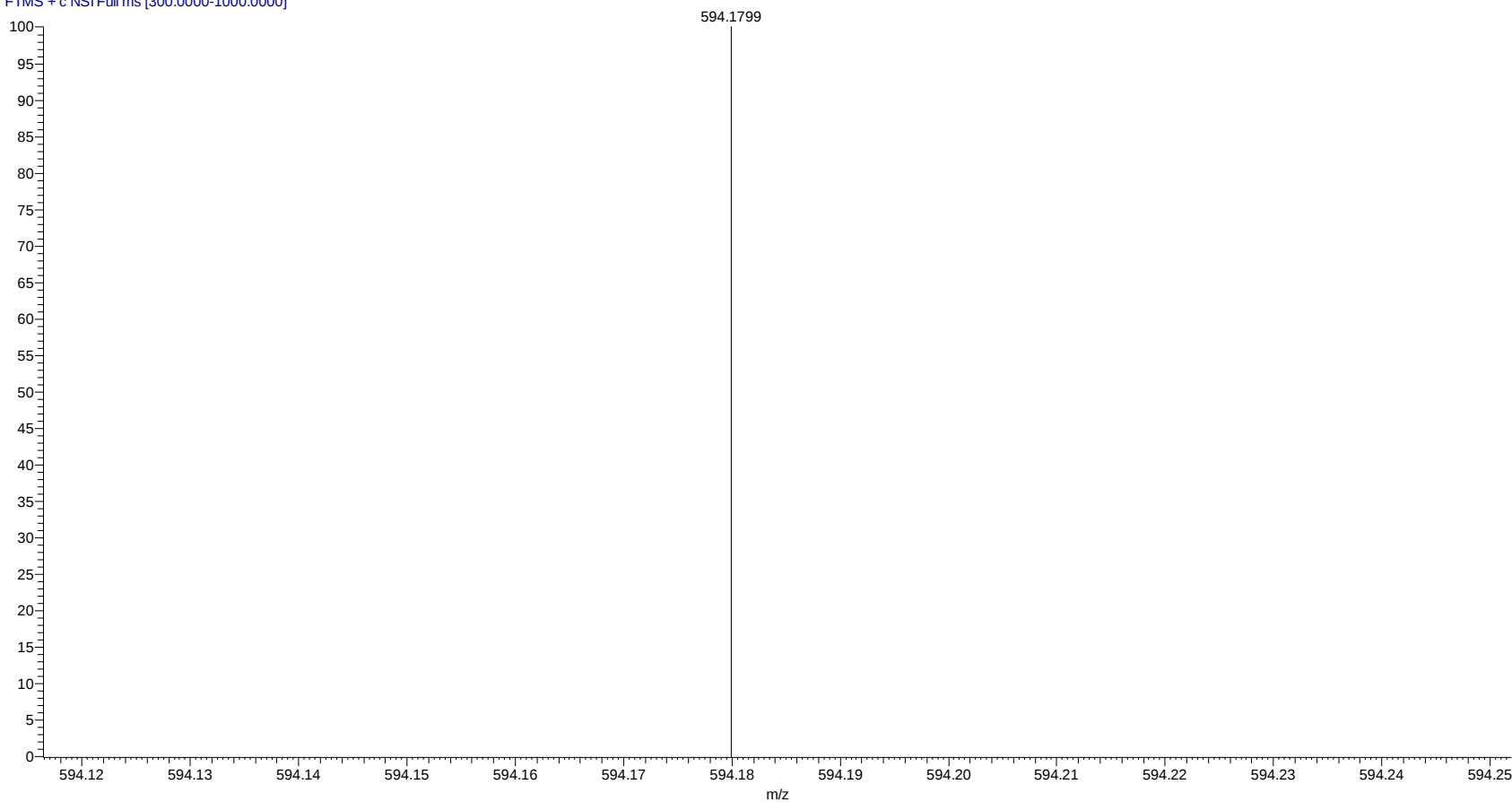
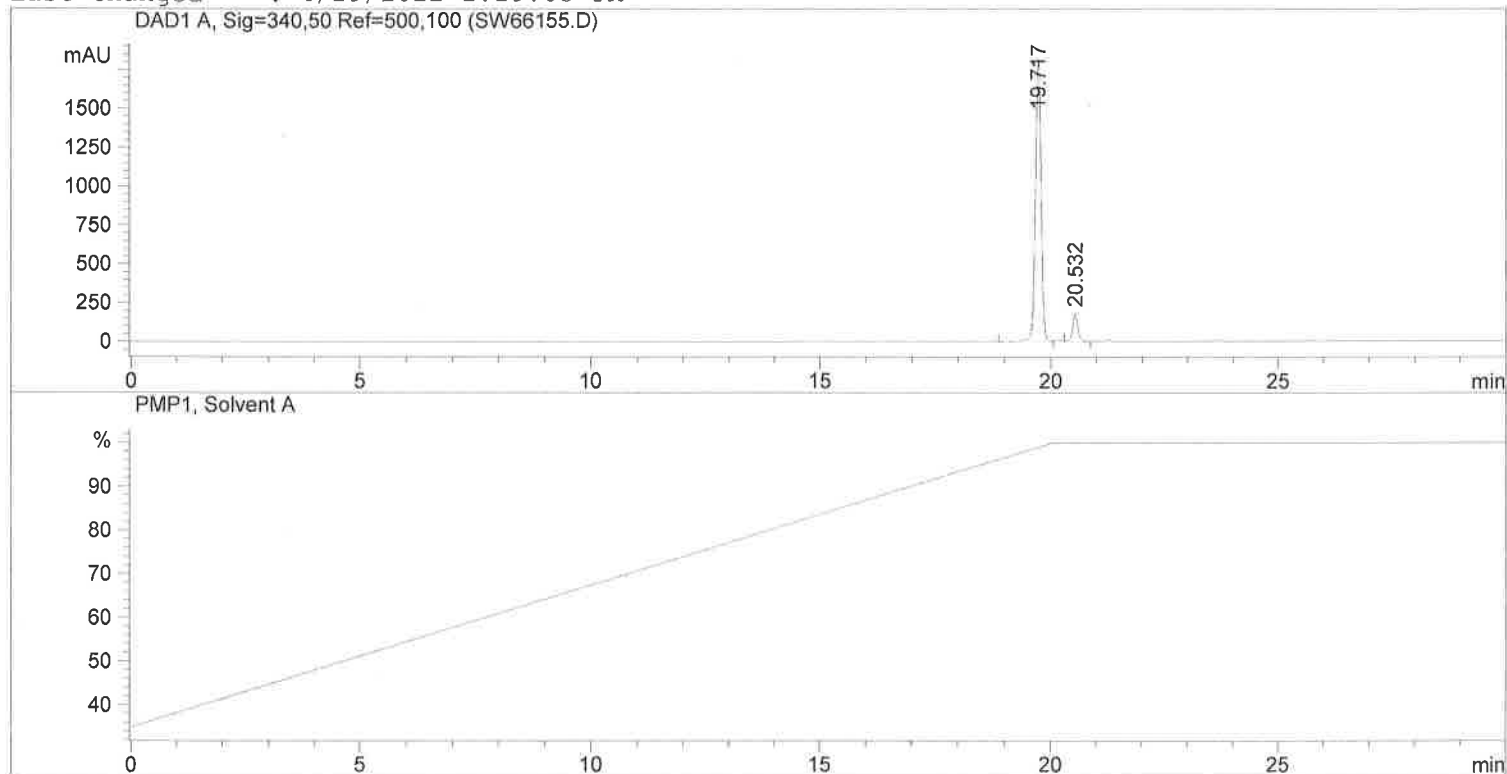


Figure S51: High resolution mass spectrum of **22**

=====
Injection Date : 4/29/2022 5:14:59 PM
Sample Name : SW-66-155 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/29/2022 2:19:03 PM
=====



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	19.717	VV	0.1381	1.59404e4	1821.90735	91.4730
2	20.532	VV	0.1229	1485.94263	182.59920	8.5270

Totals : 1.74263e4 2004.50655

Results obtained with enhanced integrator!

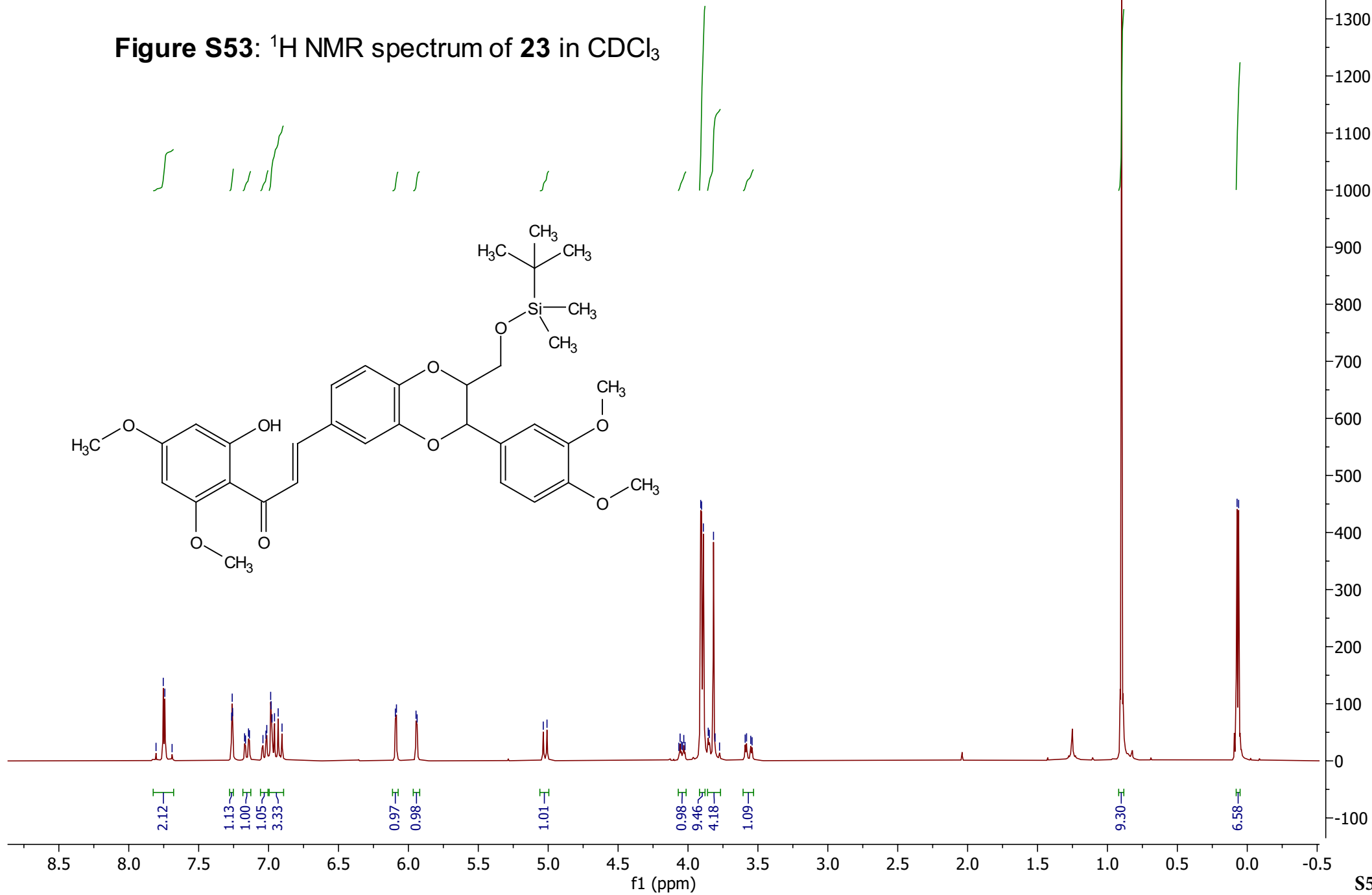
=====
*** End of Report ***

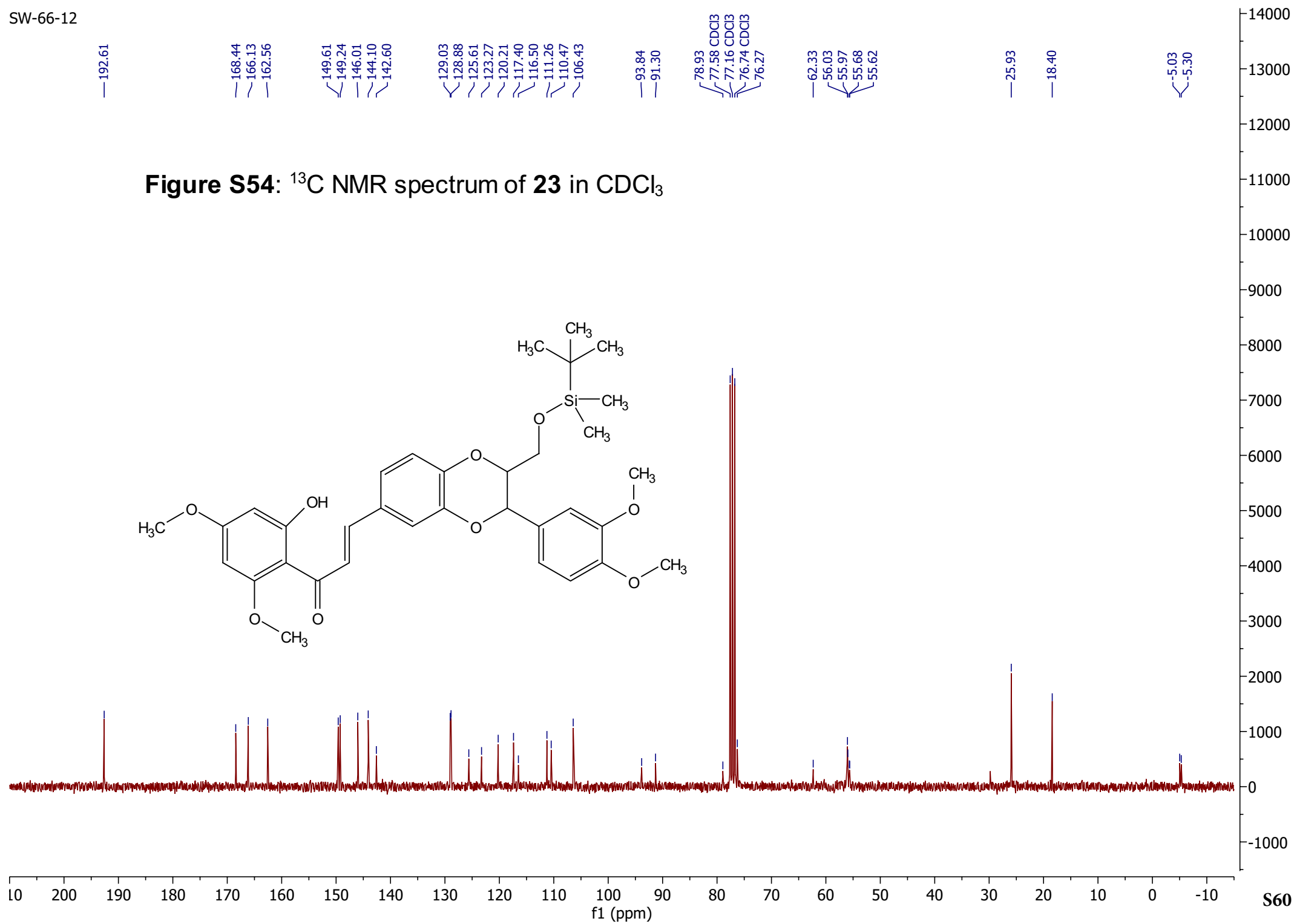
Figure S52: HPLC chromatogram of 22

SW-66119

7.805, 7.753, 7.742, 7.690, 7.264, 7.260, 7.257, 7.171, 7.165, 7.143, 7.137, 7.040, 7.019, 7.013, 6.985, 6.982, 6.975, 6.957, 6.931, 6.904, 6.093, 6.085, 5.945, 5.937, 5.035, 5.009, 4.065, 4.056, 4.048, 4.048, 4.039, 4.030, 4.021, 3.909, 3.903, 3.890, 3.855, 3.848, 3.818, 3.806, 3.774, 3.591, 3.581, 3.551, 3.542, 0.899, 0.073, 0.062

Figure S53: ^1H NMR spectrum of **23** in CDCl_3





SW-66-110 C₃₄H₄₂O₉Si 622.2599 623.2677 **623.2675** -0.0002 -0.26

SW-66-110 #2118-2737 RT: 11.14-14.38 AV: 620 NL: 2.85E8
T: FTMS + c NSI Full ms [150.0000-1000.0000]

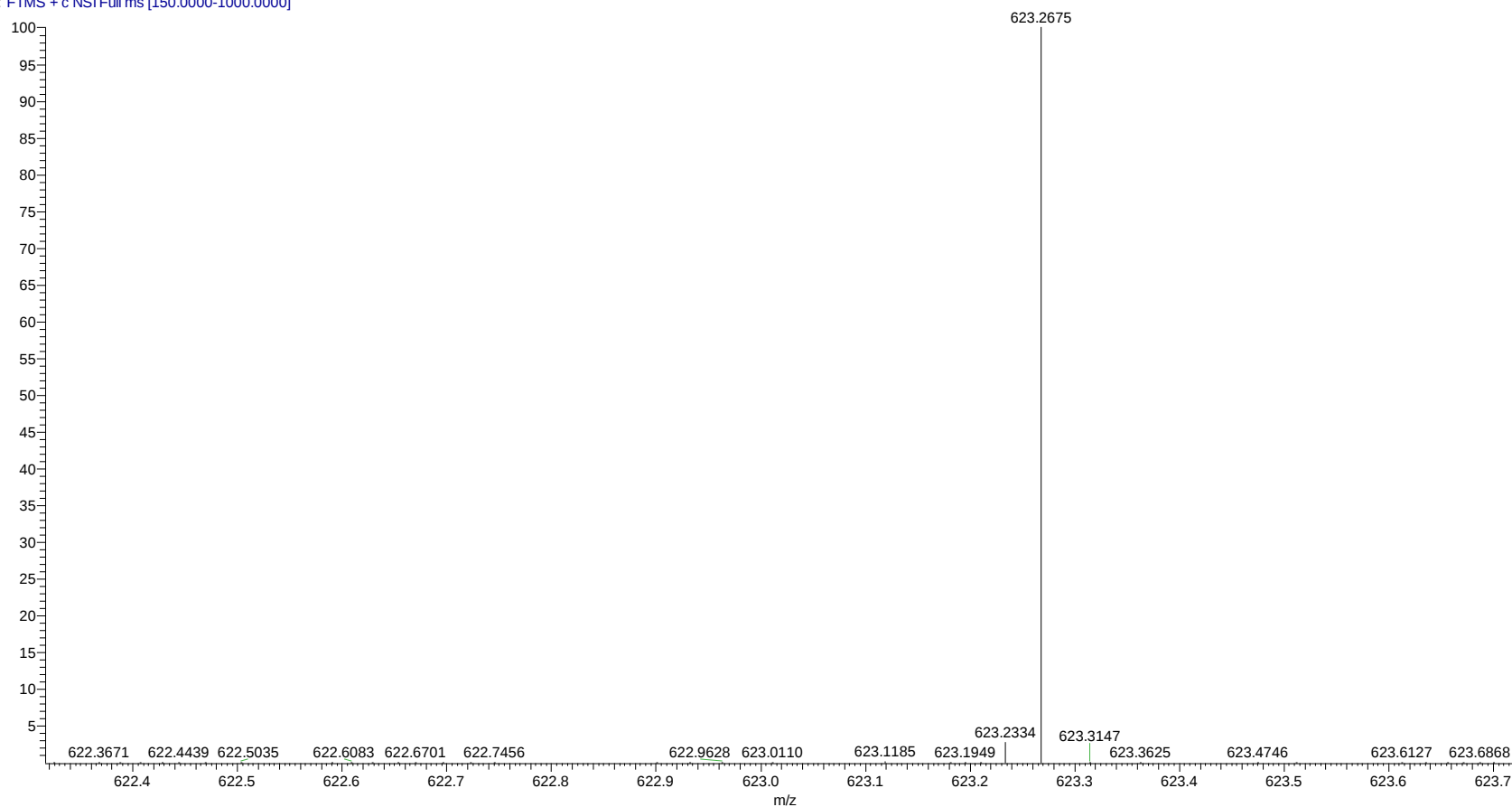
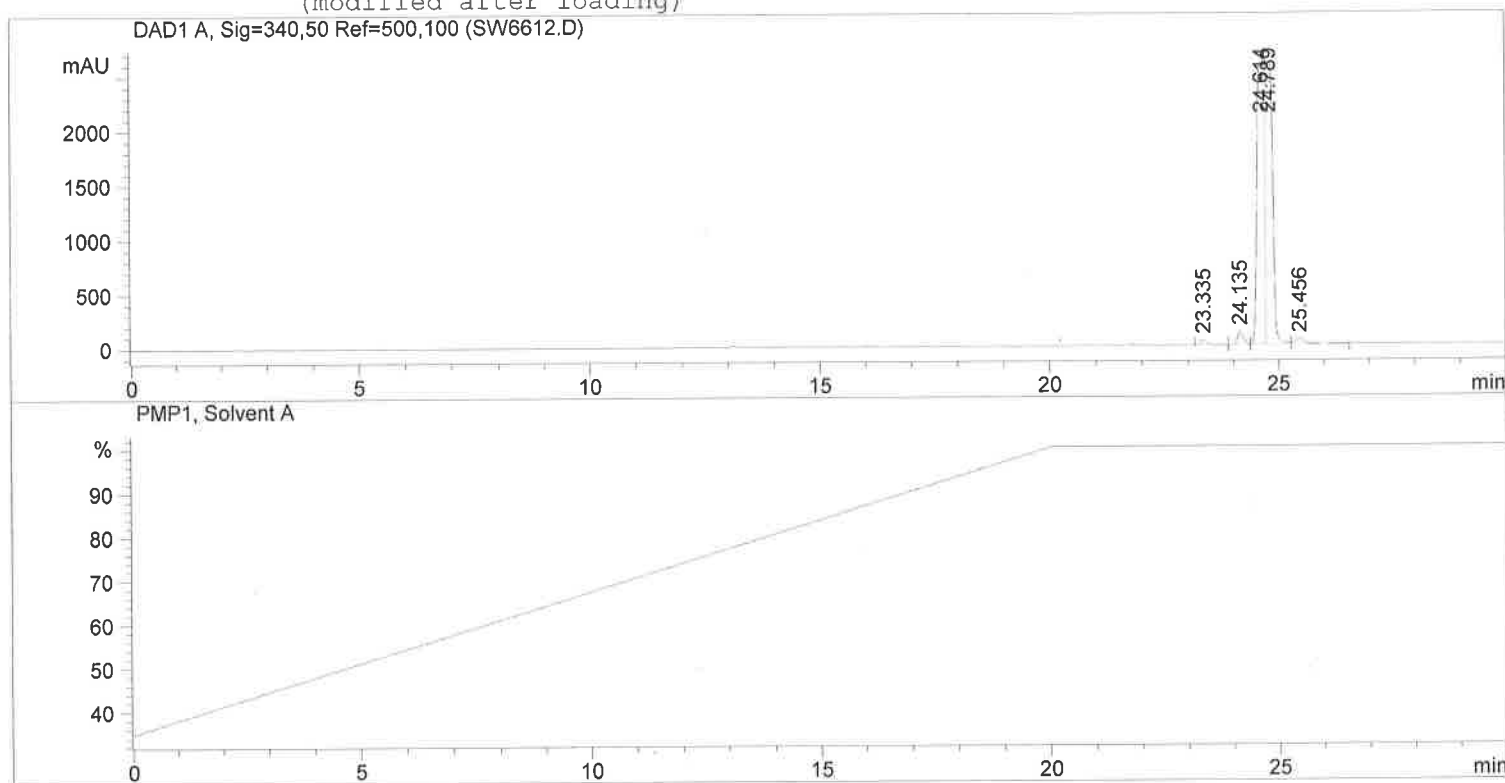


Figure S55: High resolution mass spectrum of **23**

=====
Injection Date : 5/3/2022 1:40:30 PM
Sample Name : SW-66-12 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/30/2022 3:37:52 PM
(modified after loading)



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

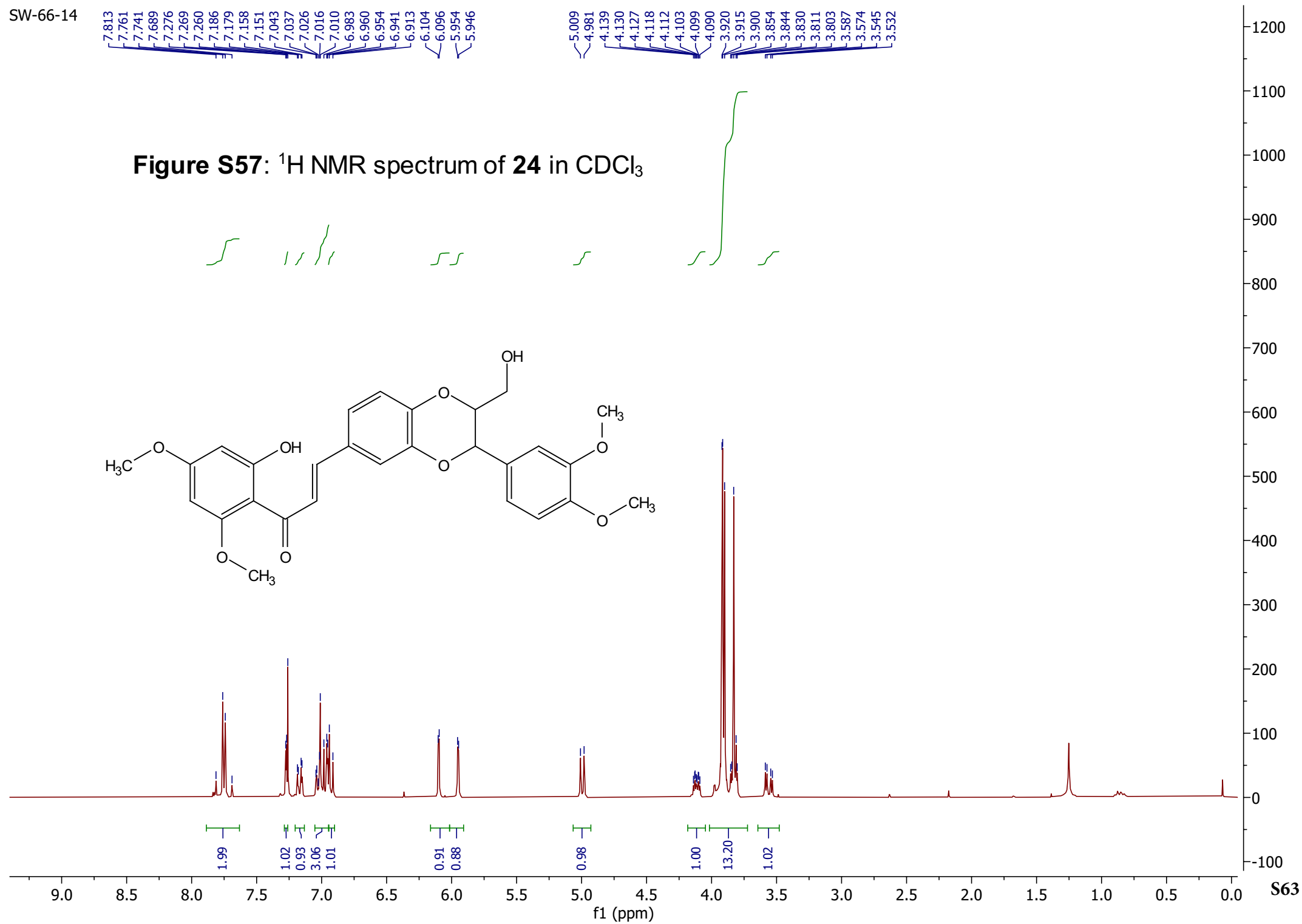
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	23.335	VP	0.1243	370.50369	46.81130	0.5992
2	24.135	VV	0.1358	1101.45093	123.75067	1.7812
3	24.614	VV	0.1830	3.09482e4	2597.71899	50.0486
4	24.789	VV	0.1606	2.86429e4	2598.86646	46.3206
5	25.456	VB	0.2137	773.15863	51.91675	1.2503

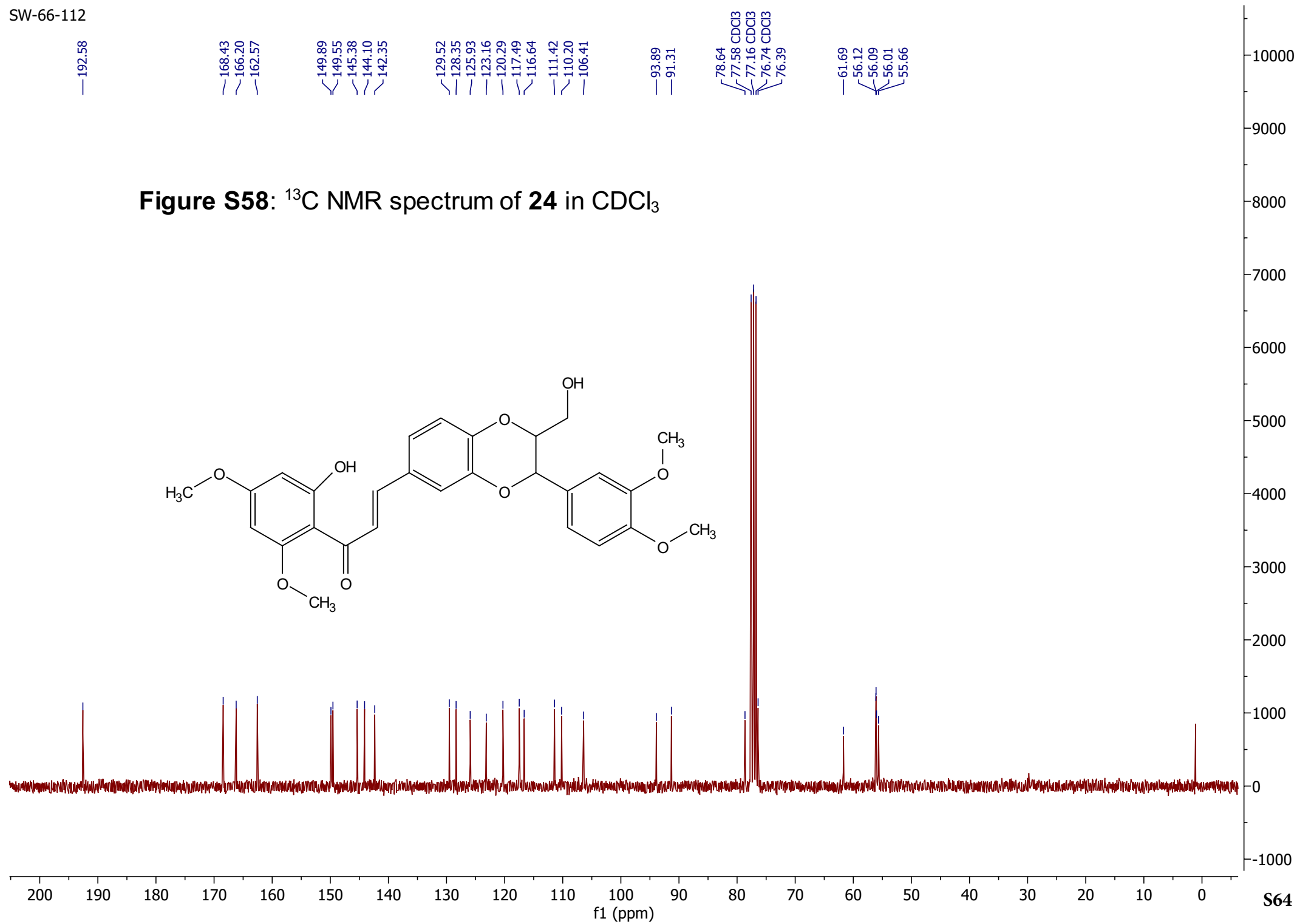
Totals : 6.18362e4 5419.06417

Results obtained with enhanced integrator!

*** End of Report ***

Figure S56: HPLC chromatogram of 23





SW-66-14 C₂₈H₂₈O₉ 508.1734 509.1812 **509.1806** -0.0006 -1.14

SW-66-14 #2314-2546 RT: 12.11-13.32 AV: 233 NL: 8.51E7
T: FTMS + c NSI Full ms [150.0000-1000.0000]

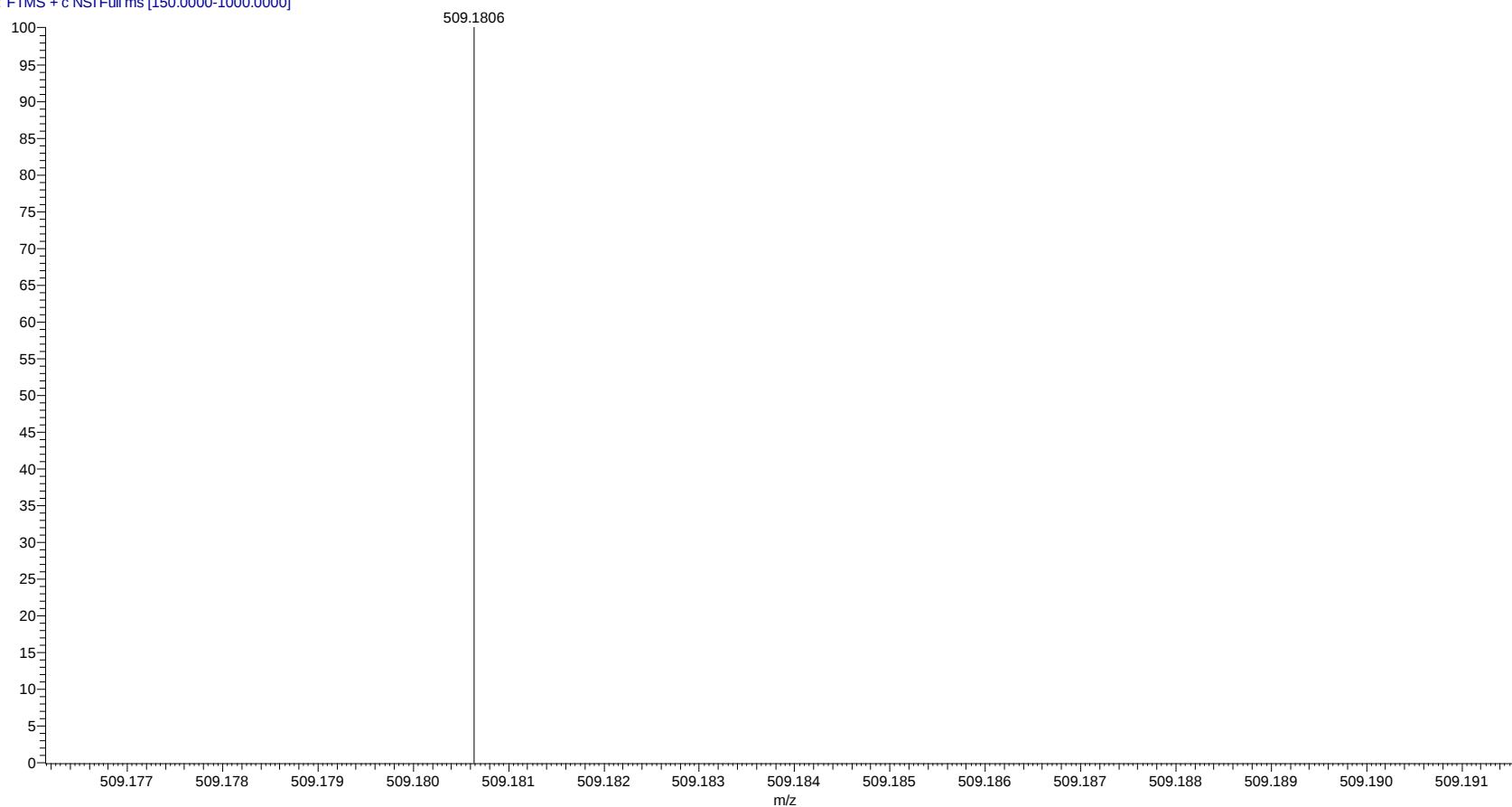
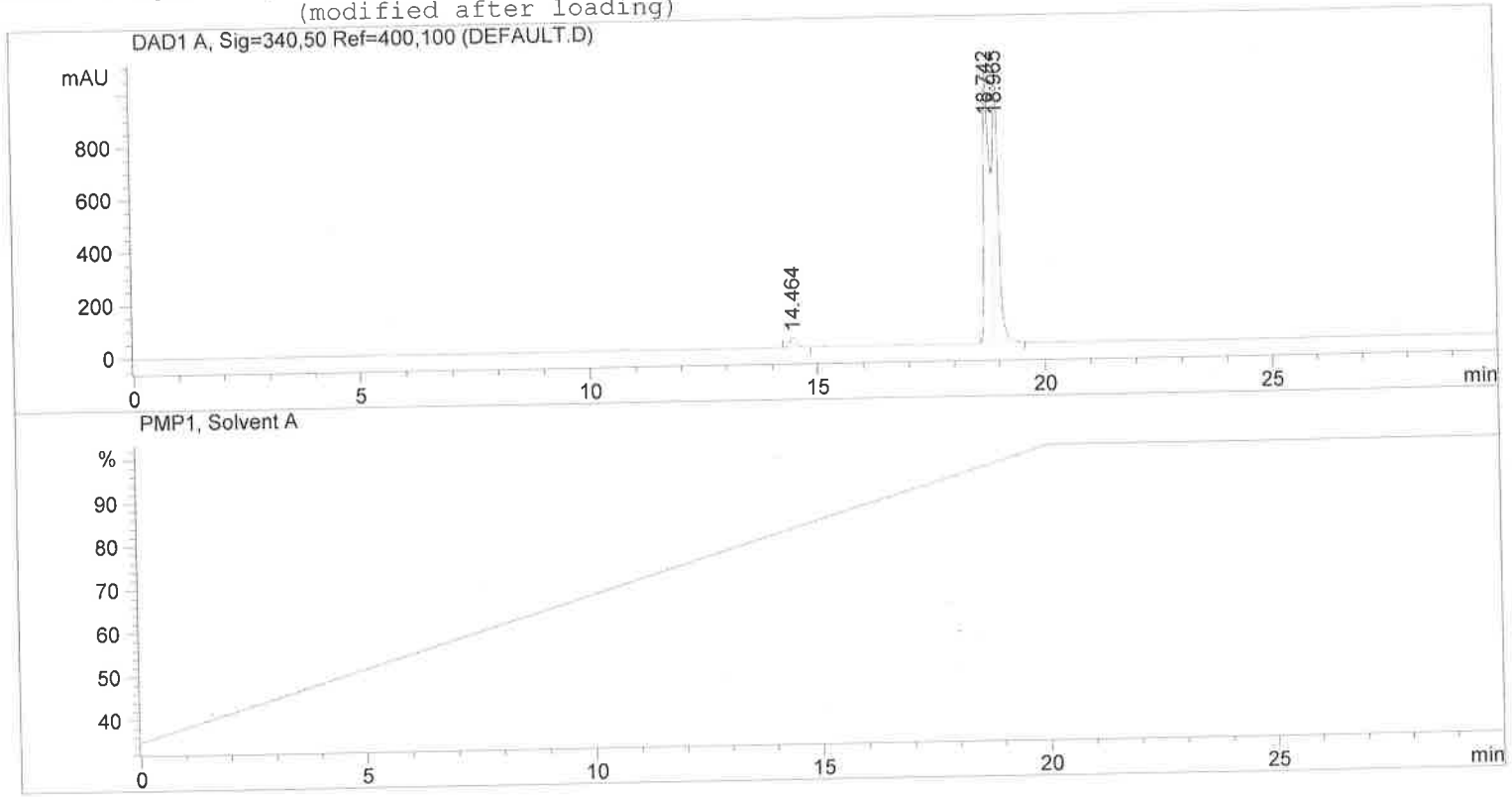


Figure S59: High resolution mass spectrum of **24**

=====
Injection Date : 4/25/2022 4:10:06 PM
Sample Name : SW-66-14 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/24/2022 3:10:54 PM
(modified after loading)



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

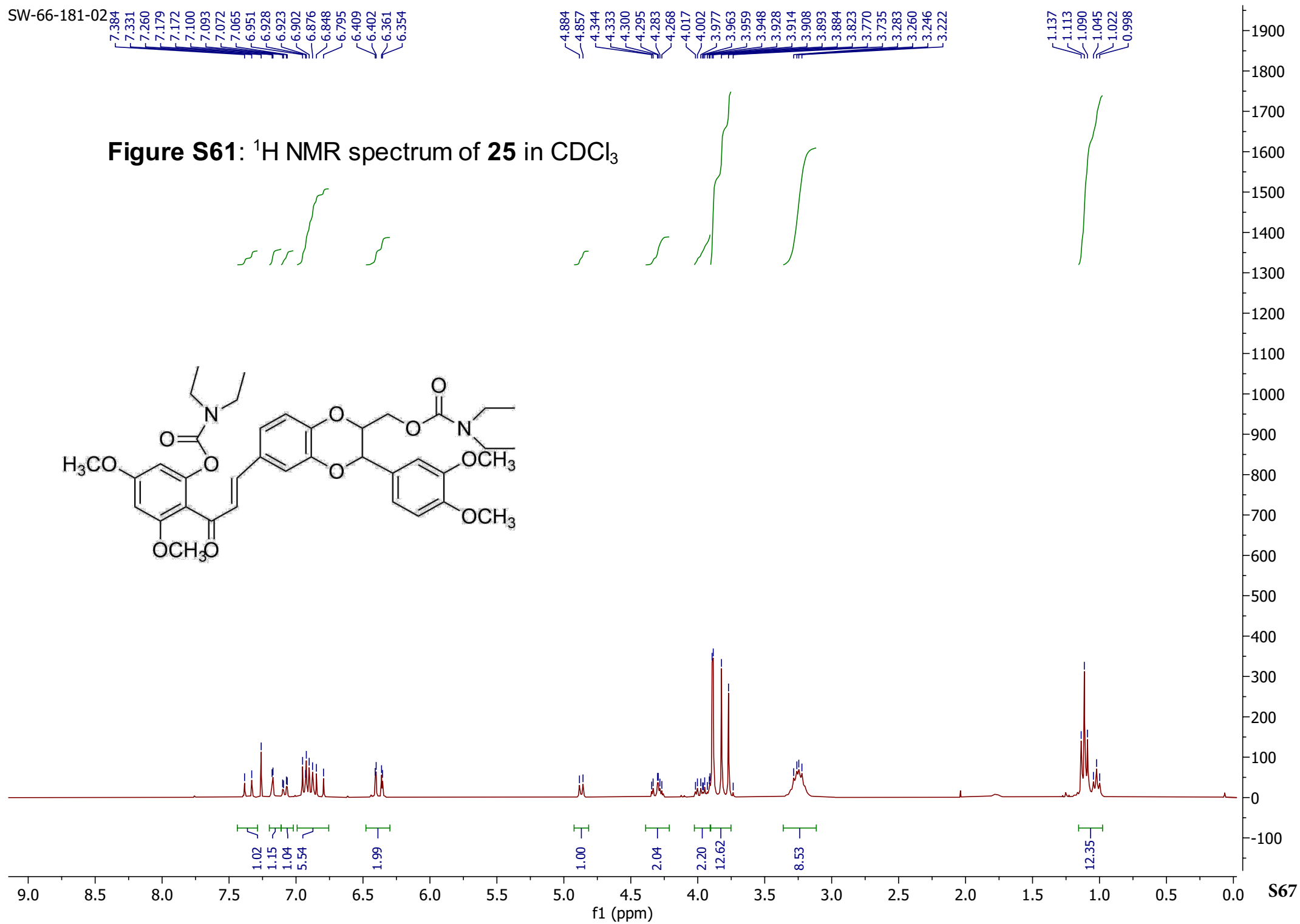
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.464	BV	0.1460	362.14001	37.04652	1.9489
2	18.742	BV	0.1224	9316.91309	1061.96533	50.1391
3	18.965	VB	0.1239	8903.08008	1040.01978	47.9120

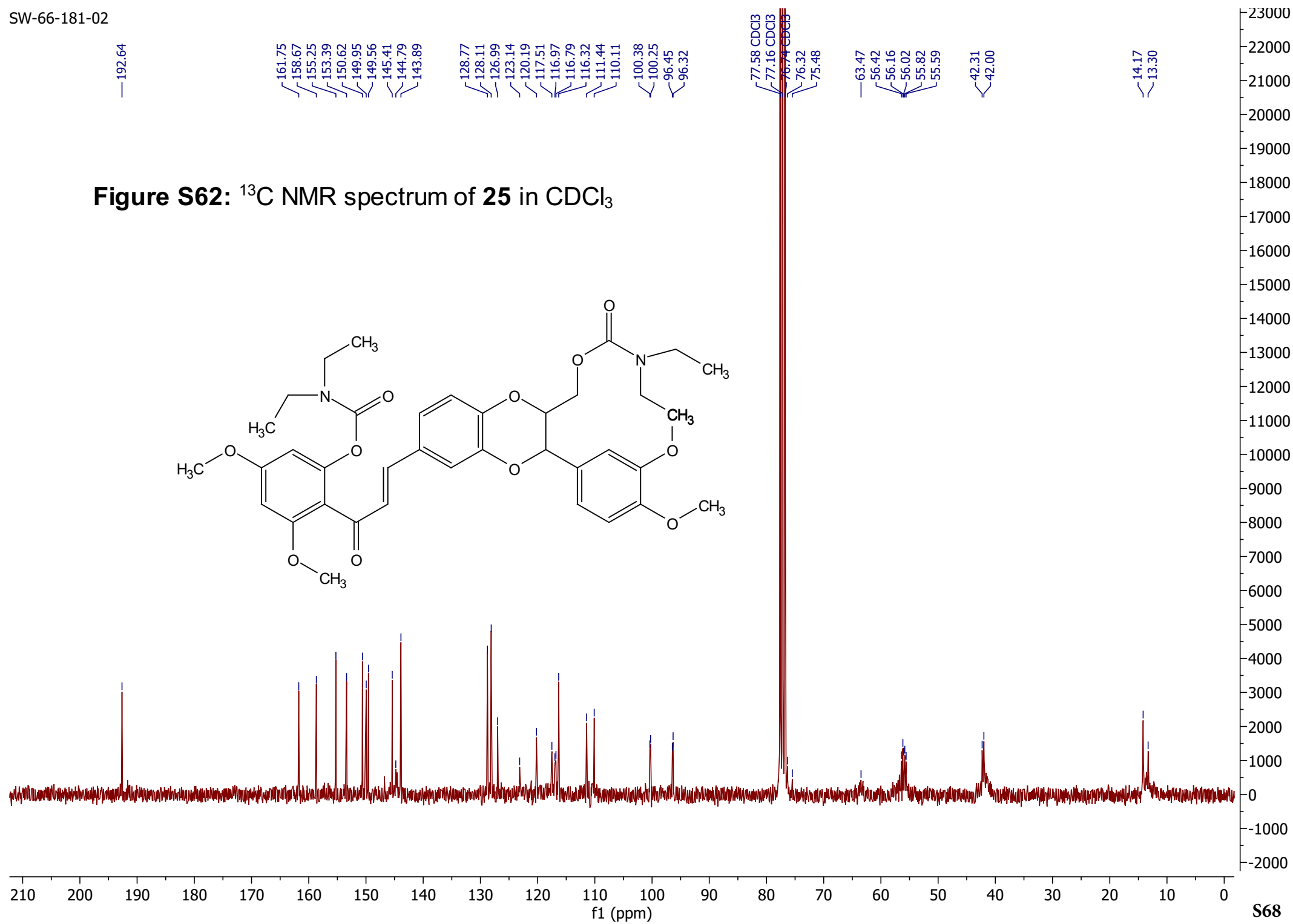
Totals : 1.85821e4 2139.03162

Results obtained with enhanced integrator!

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

Figure S60: HPLC chromatogram of 24

Figure S61: ^1H NMR spectrum of **25** in CDCl_3 



Sample Name	Mol Formula	MW	M+H	observed	delta	ppm
SW-66-181-02	C38H46N2O11	706.3102	707.3180	707.3179	-0.0001	-0.17

SW-66-181-02 #1692-1859 RT: 9.88-10.77 AV: 168 NL: 1.22E8
T: FTMS + c NSI Full lock ms [200.0000-1200.0000]

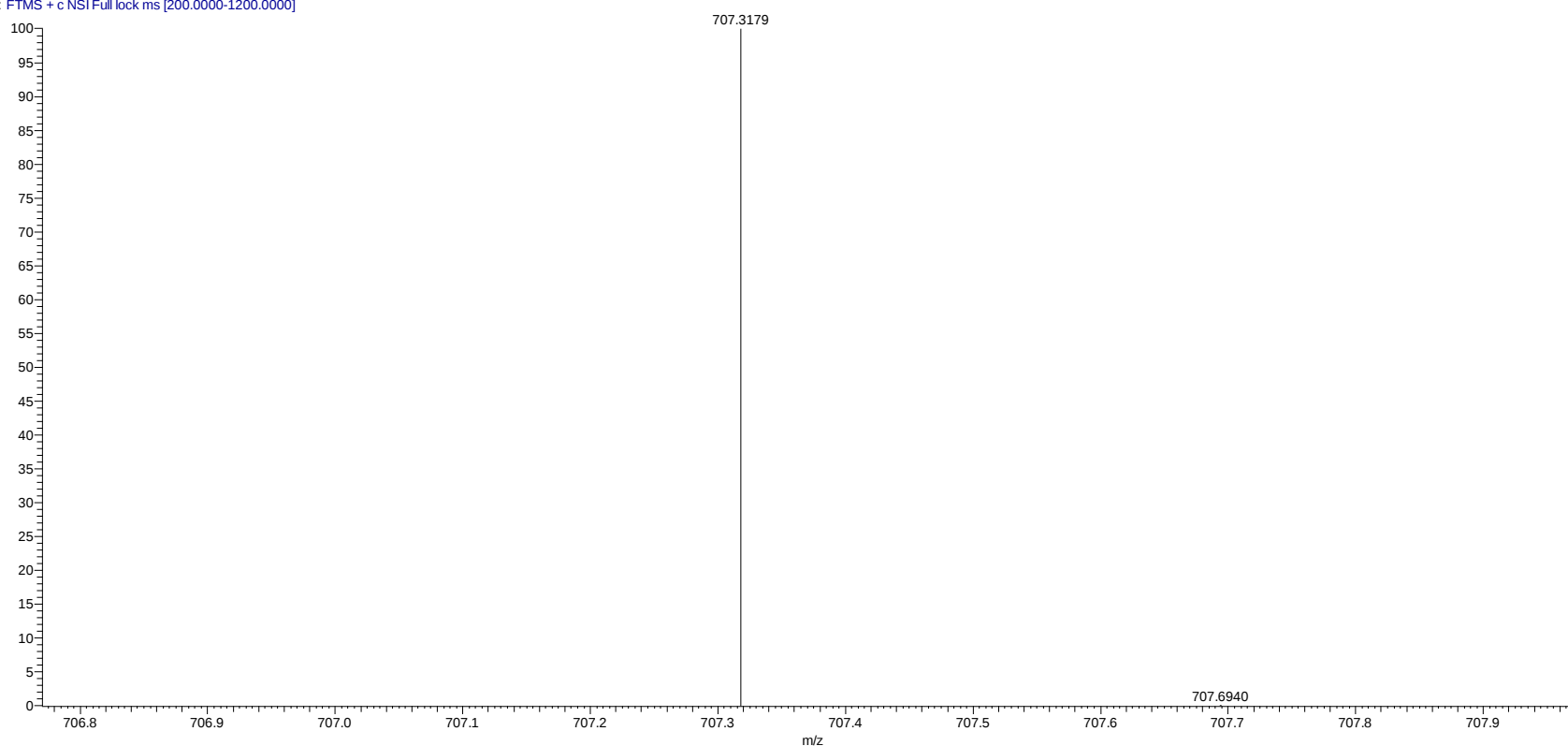
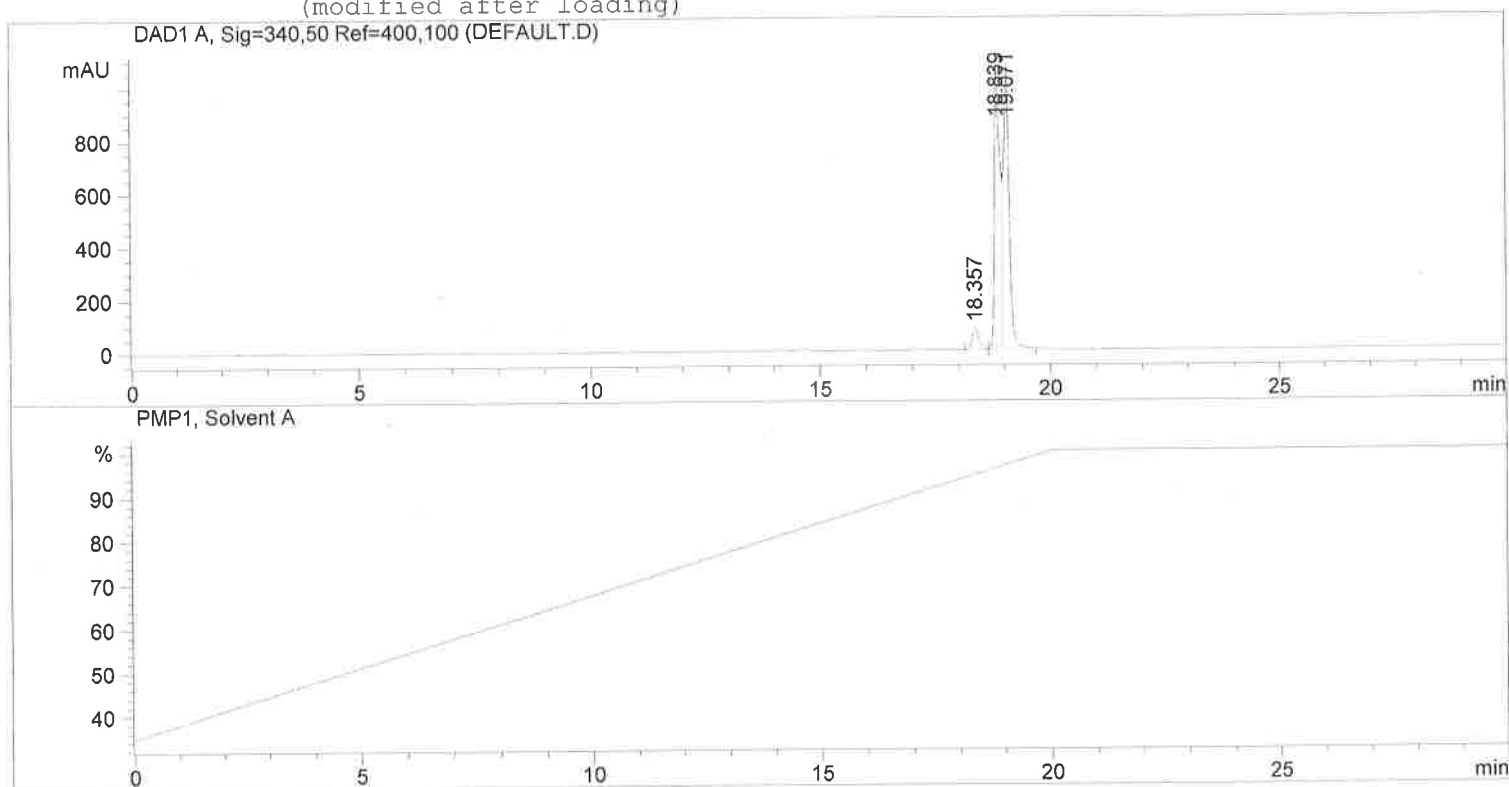


Figure S63: High resolution mass spectrum of **25**

=====
Injection Date : 4/24/2022 5:28:43 PM
Sample Name : SW-85-181-02 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/24/2022 3:10:54 PM
(modified after loading)



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

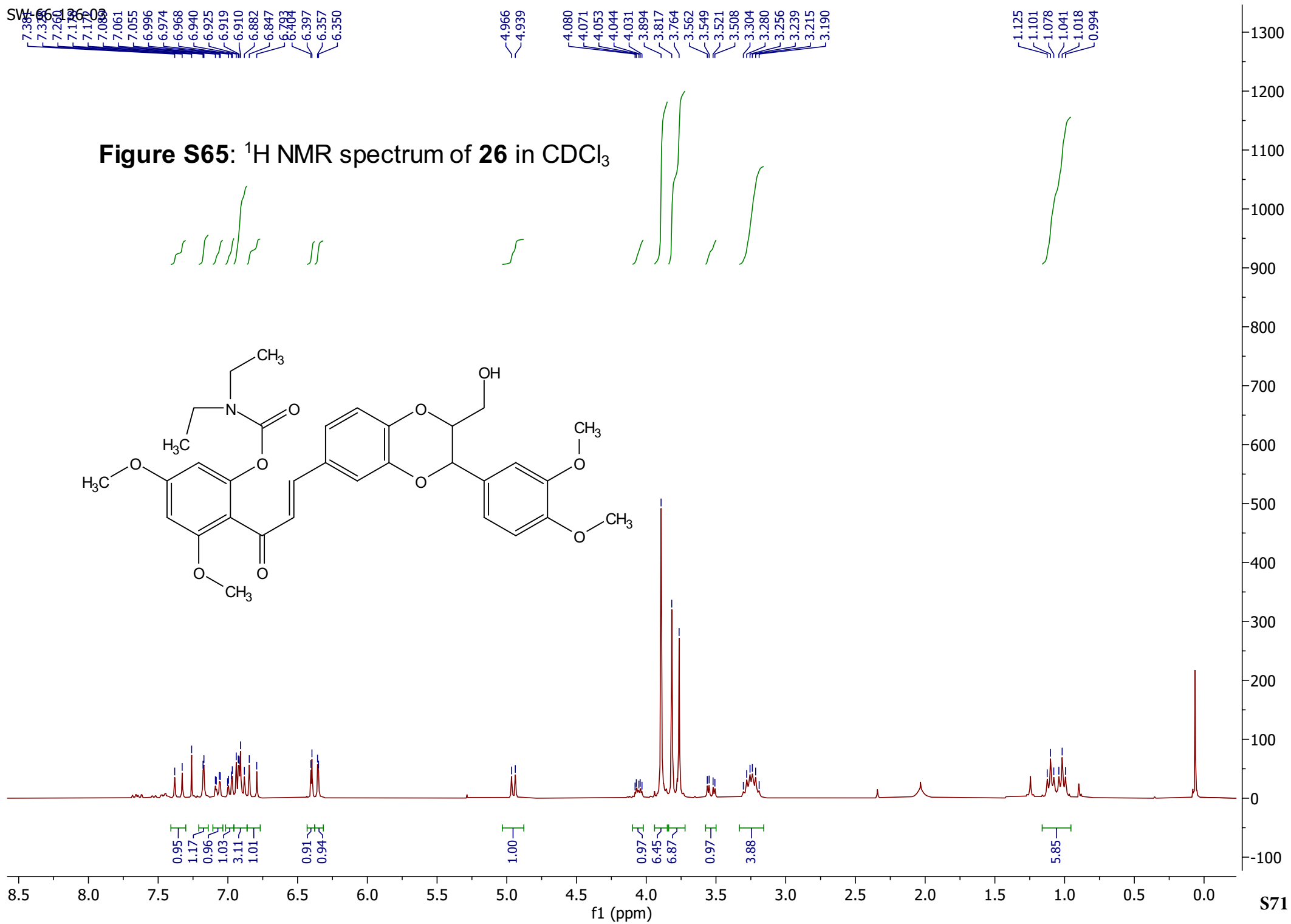
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	18.357	PP	0.1516	805.34631	82.72363	4.1372
2	18.839	VV	0.1201	9115.85254	1062.03345	46.8296
3	19.071	VB	0.1265	9544.79883	1065.28052	49.0332

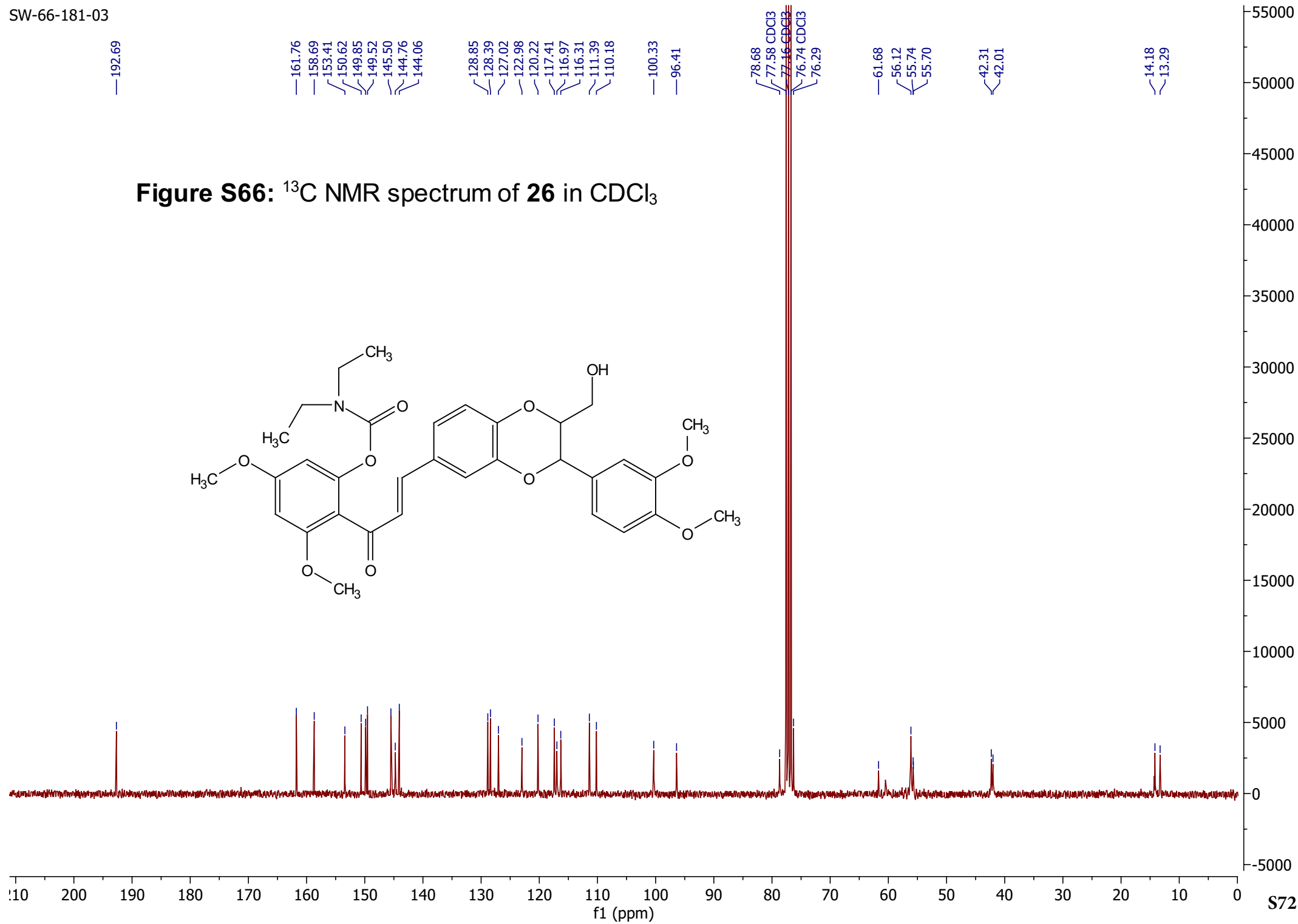
Totals : 1.94660e4 2210.03760

Results obtained with enhanced integrator!

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

Figure S64: HPLC chromatogram of 25





SW-66-136-03 C33H37NO10 607.2418 608.2496 **608.2493** -0.0003 -0.48

SW-136-03 #2183-2650 RT: 11.48-13.93 AV: 468 NL: 3.60E8
T: FTMS + c NSI Full ms [150.0000-1000.0000]

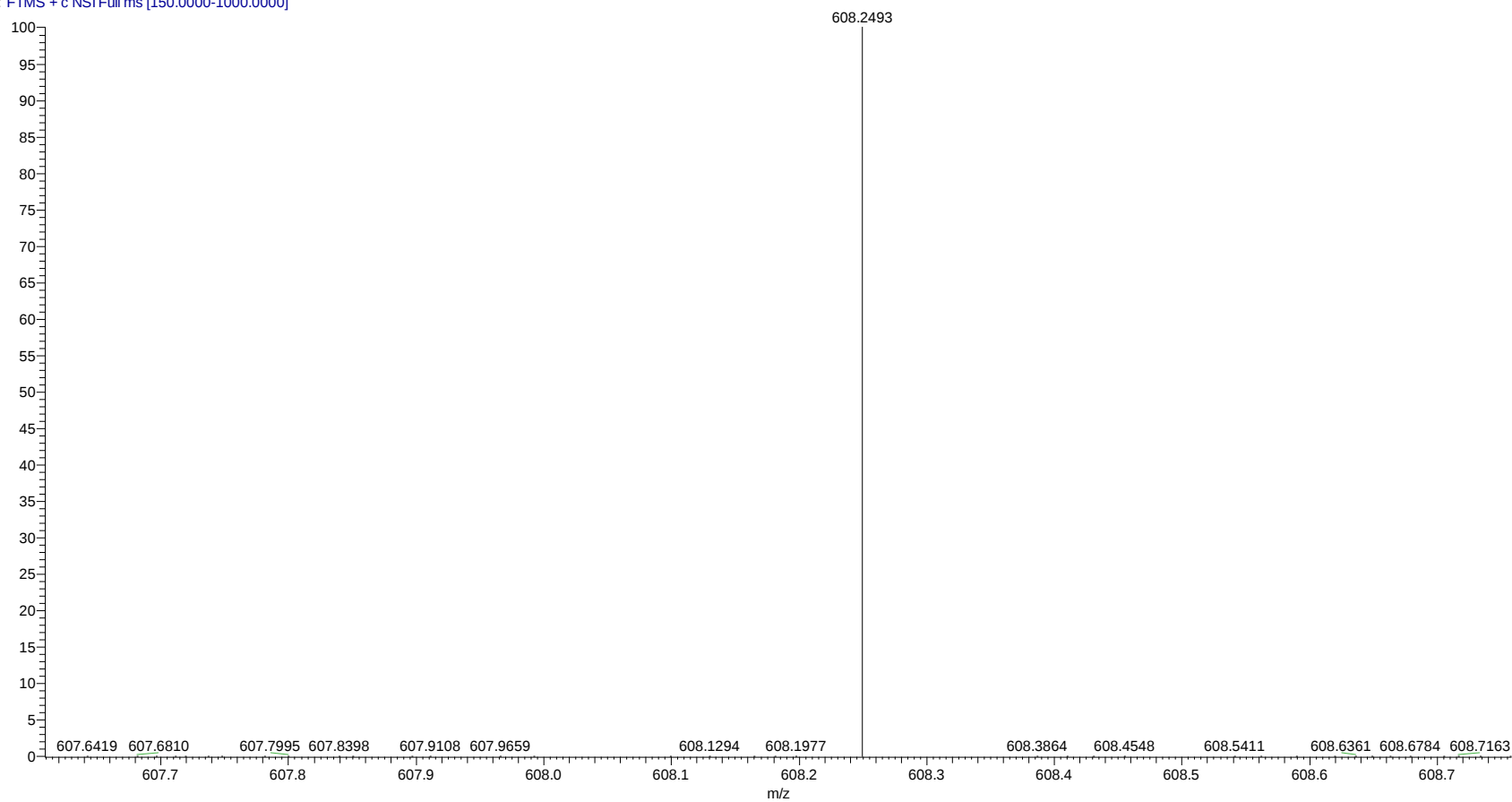
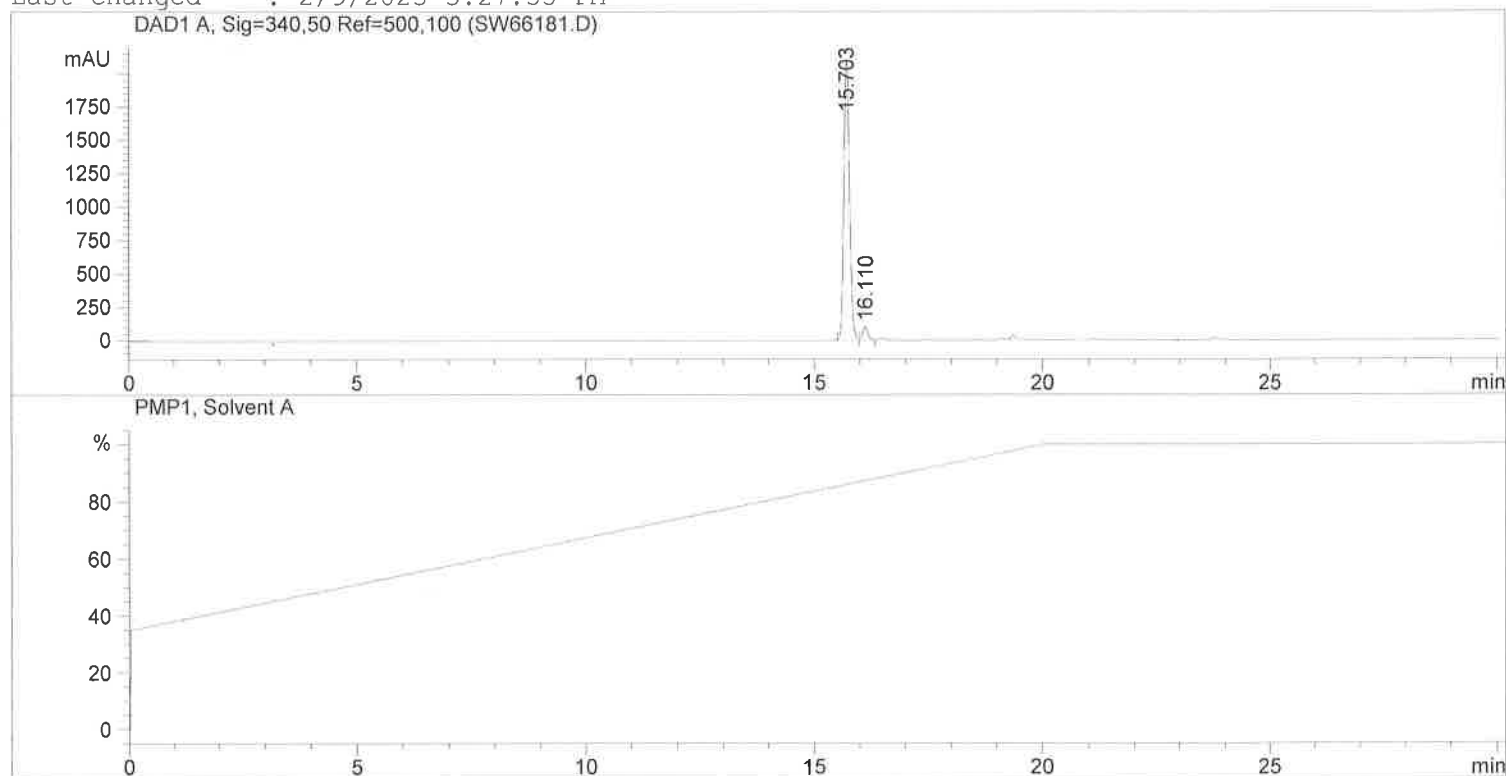


Figure S67: High resolution mass spectrum of **26**

Injection Date : 2/10/2023 1:47:32 PM
Sample Name : SW-66-181-03 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 2/9/2023 3:27:35 PM



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.703	BV	0.1364	1.82694e4	2081.19800	95.5565
2	16.110	VV	0.1265	849.54248	102.65541	4.4435

Totals : 1.91190e4 2183.85341

Results obtained with enhanced integrator!

*** End of Report ***

Figure S68: HPLC chromatogram of 26

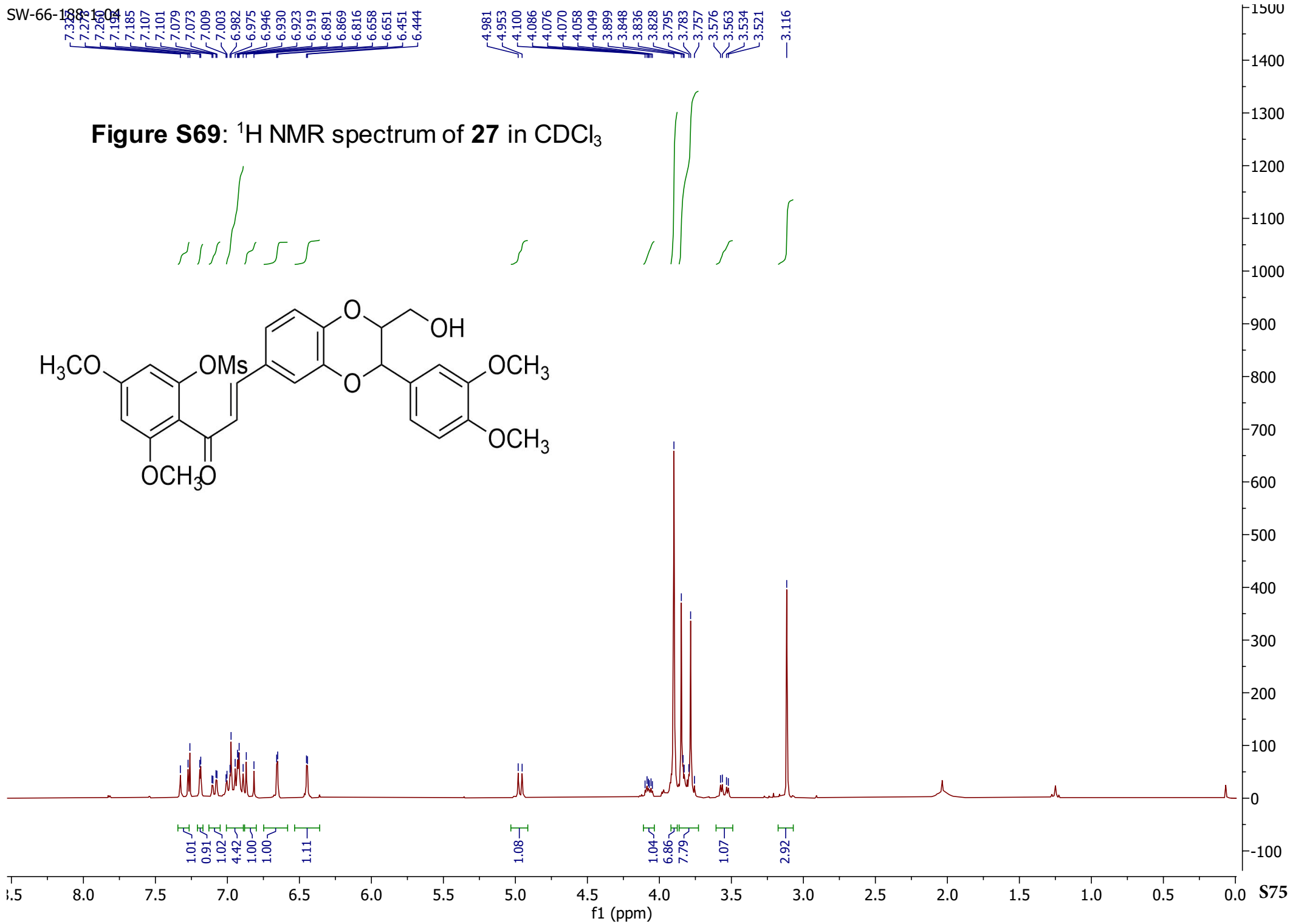
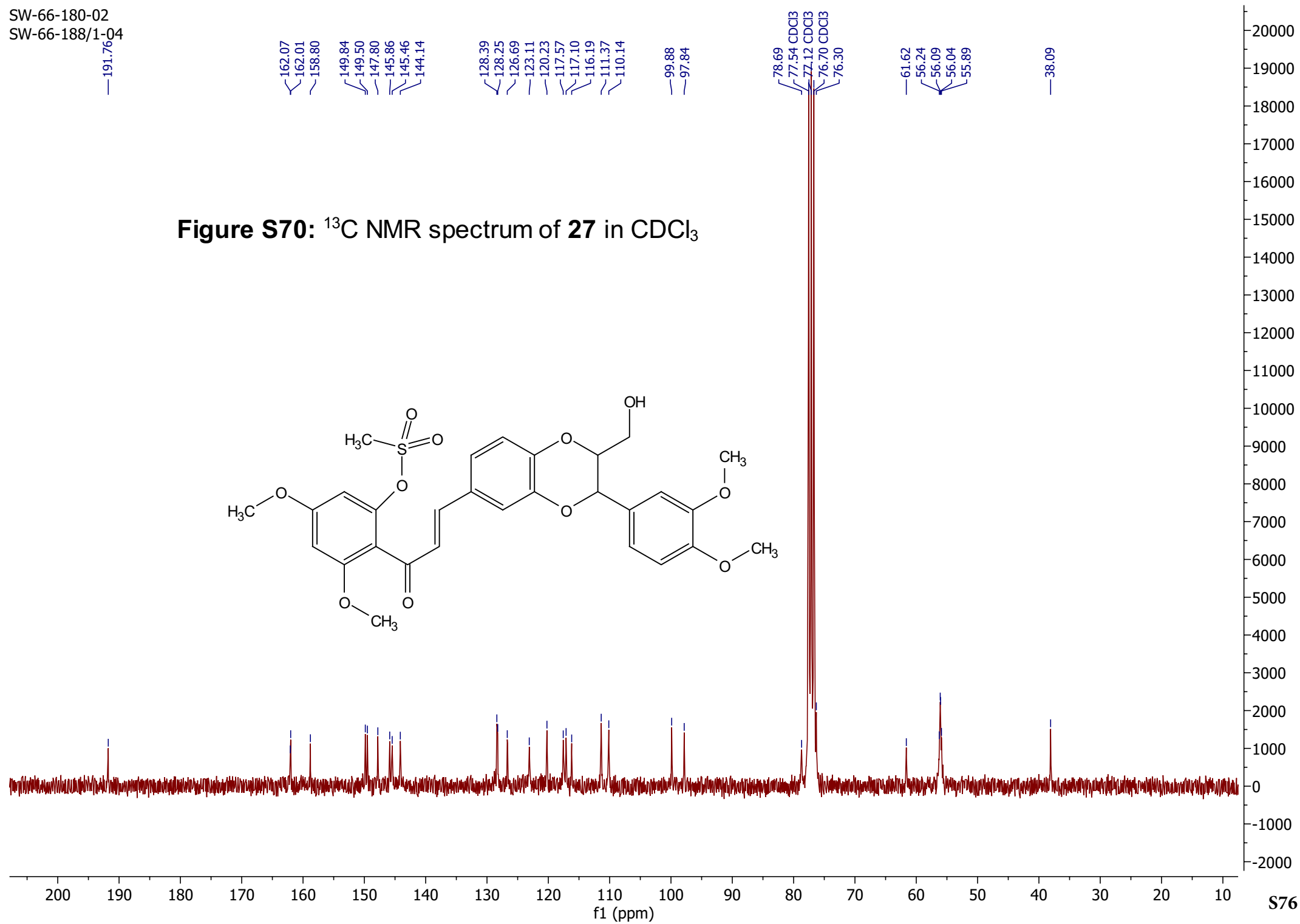


Figure S70: ^{13}C NMR spectrum of **27** in CDCl_3



Sample Name	Mol Formula	MW	M+H	observed	delta	ppm
SW-66-180-02	C ₂₉ H ₃₀ O ₁₁ S	586.1509	587.1587	587.1587	0.0000	0.00

SW-66-180-02 #1958-2001 RT: 10.72-10.94 AV: 44 NL: 6.97E7
T: FTMS + c NSI Full ms [300.0000-1000.0000]

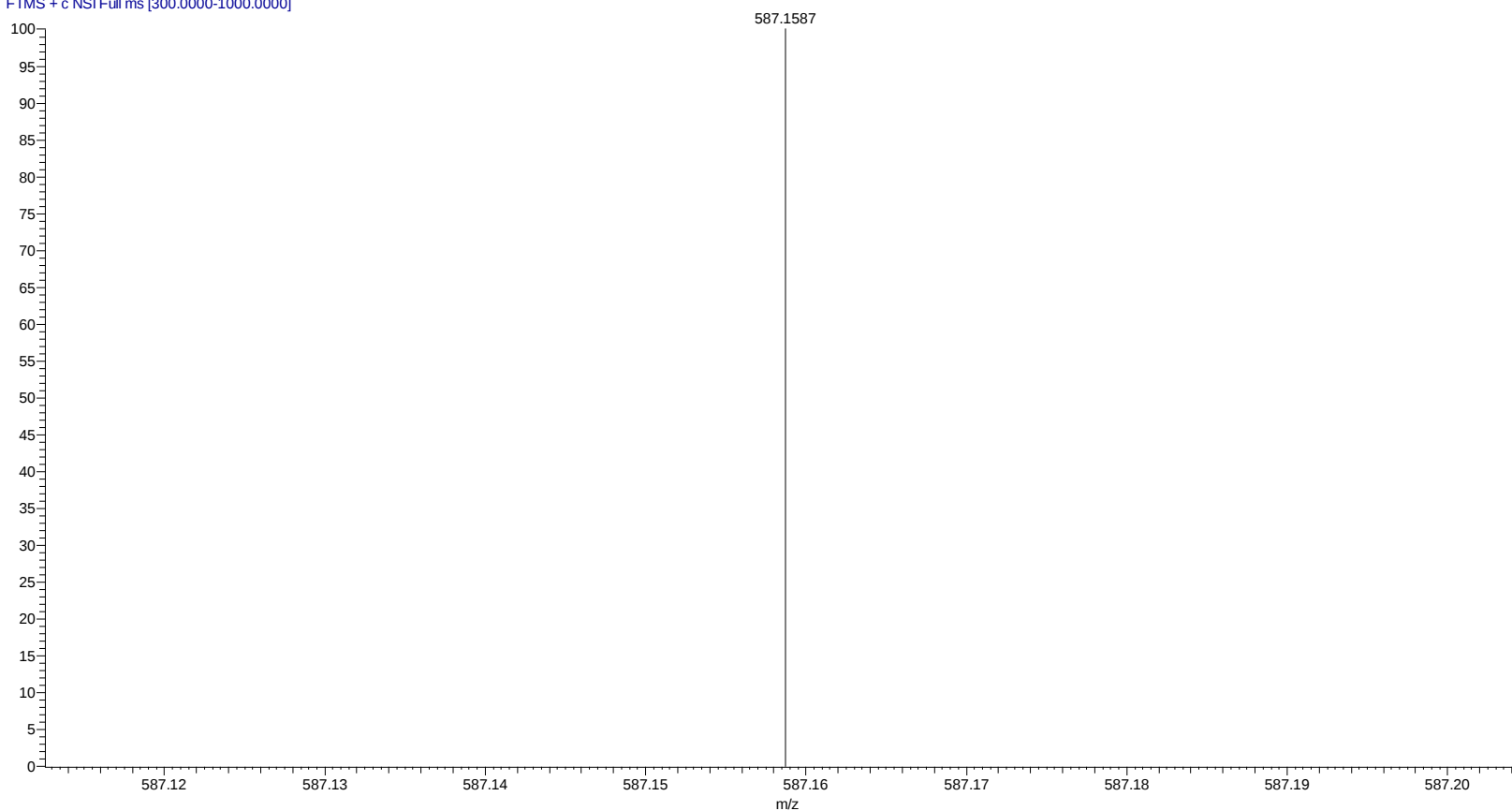
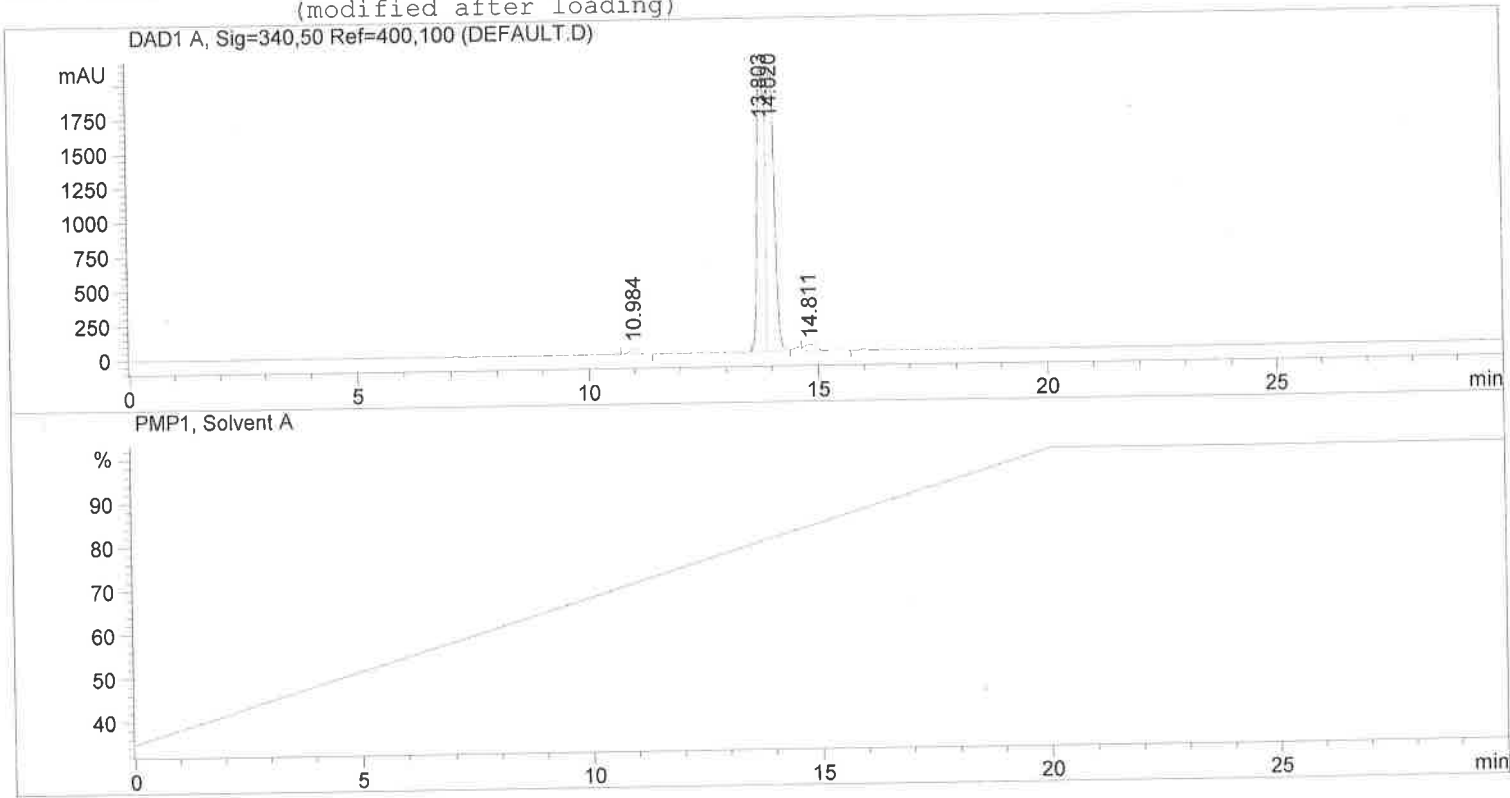


Figure S71: High resolution mass spectrum of **27**

Injection Date : 4/24/2022 1:16:42 PM
Sample Name : SW-85-180-02
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/22/2022 5:19:36 PM
(modified after loading)



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.984	BP	0.1720	521.16962	44.70438	1.0442
2	13.803	BV	0.1639	2.41247e4	2071.67554	48.3376
3	14.020	VV	0.1736	2.43214e4	2061.74927	48.7318
4	14.811	VV	0.2767	941.45032	51.63195	1.8863

Totals : 4.99087e4 4229.76114

Results obtained with enhanced integrator!

*** End of Report ***

Figure S72: HPLC chromatogram of 27

Figure S73: ^1H NMR spectrum of **28** in CDCl_3

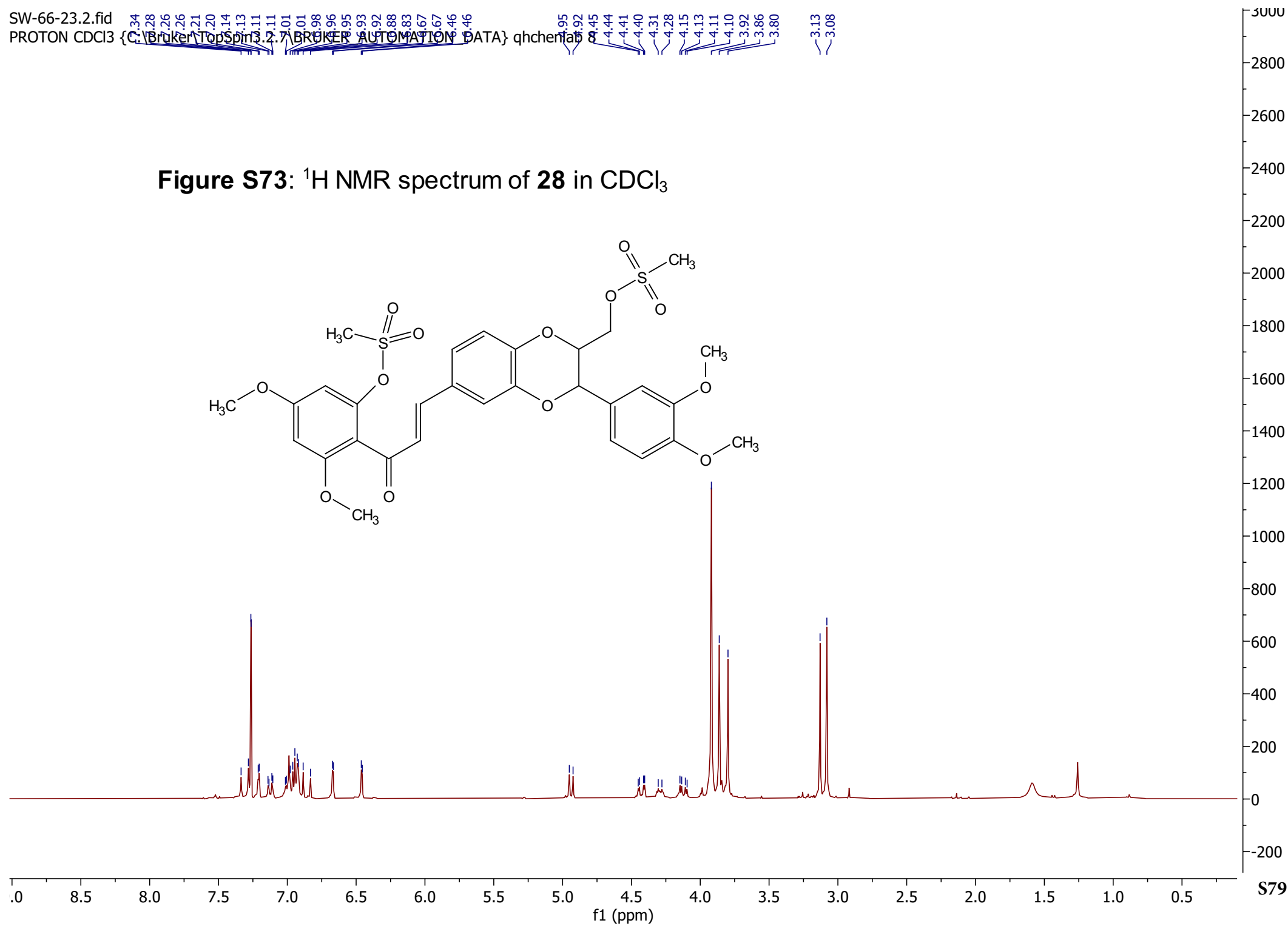
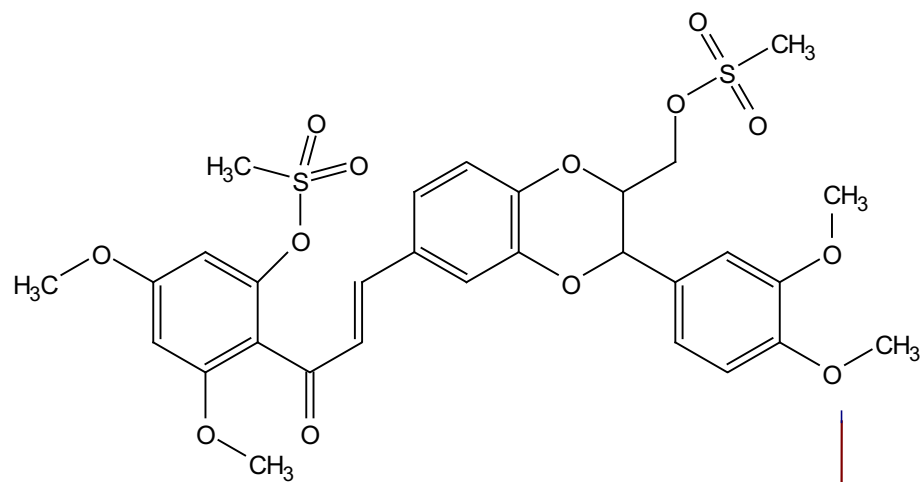
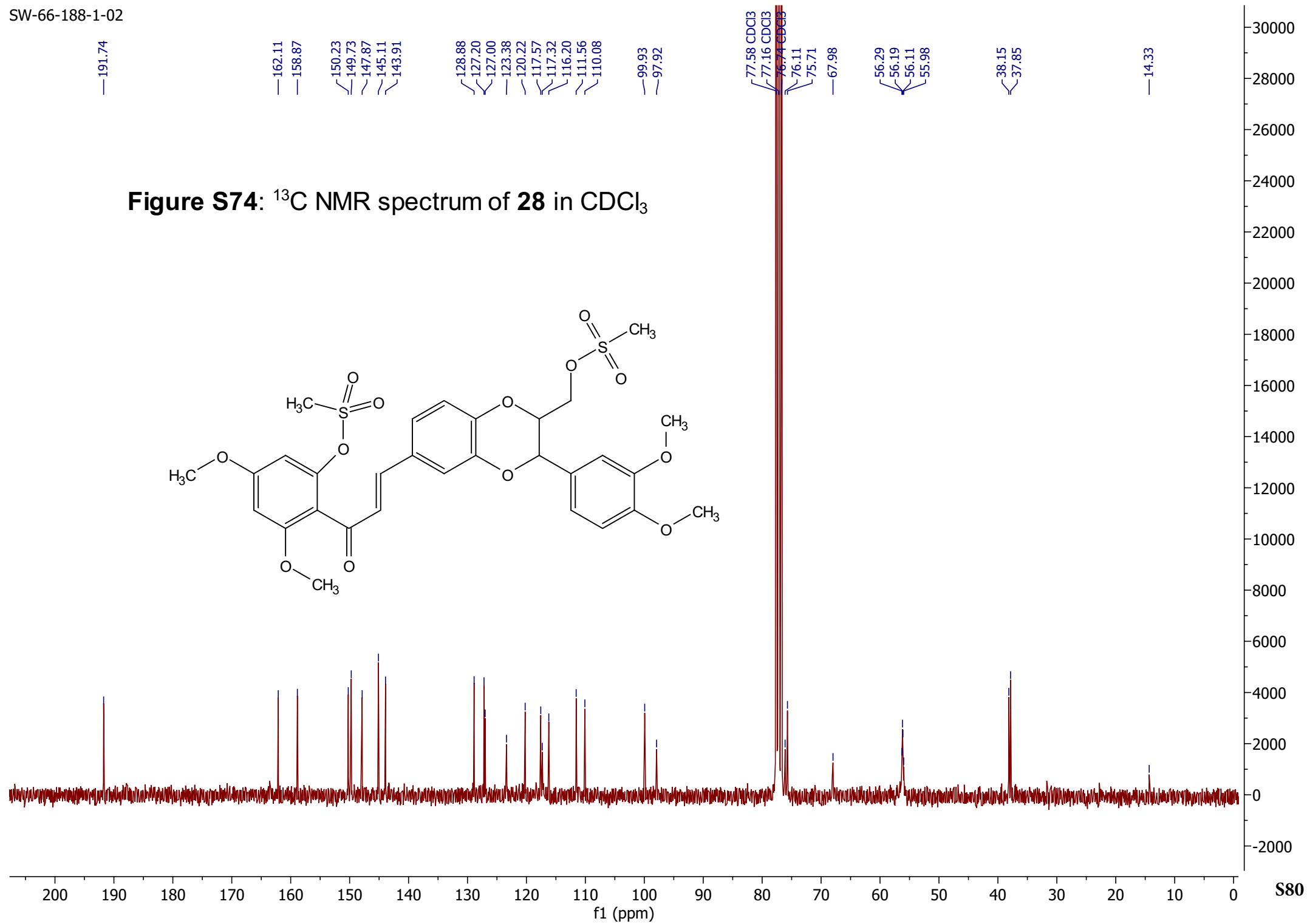
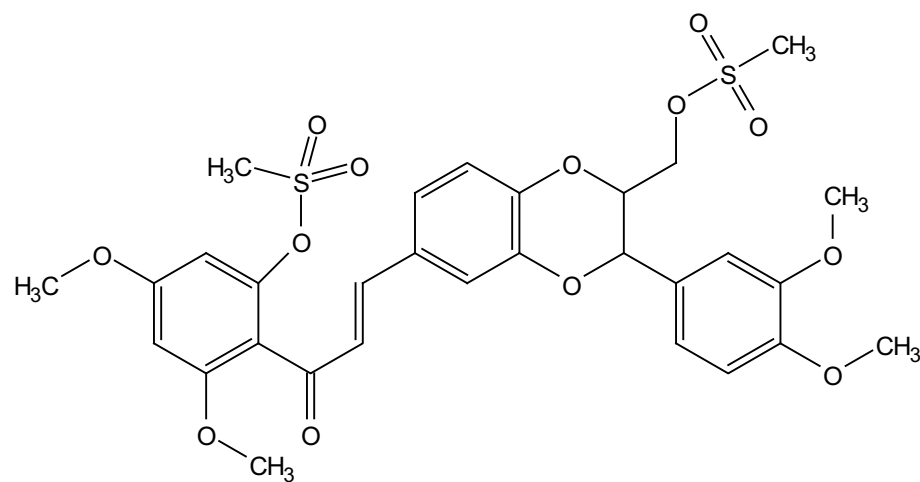


Figure S74: ^{13}C NMR spectrum of **28** in CDCl_3 

SW-66-135-02 C30H32O13S2 664.1285 665.1363 **665.1385** 0.0022 3.31

SW-66-135-02 #4953-4994 RT: 26.77-26.98 AV: 42 NL: 2.07E6
T: FTMS + c NSI Full ms [150.0000-1000.0000]

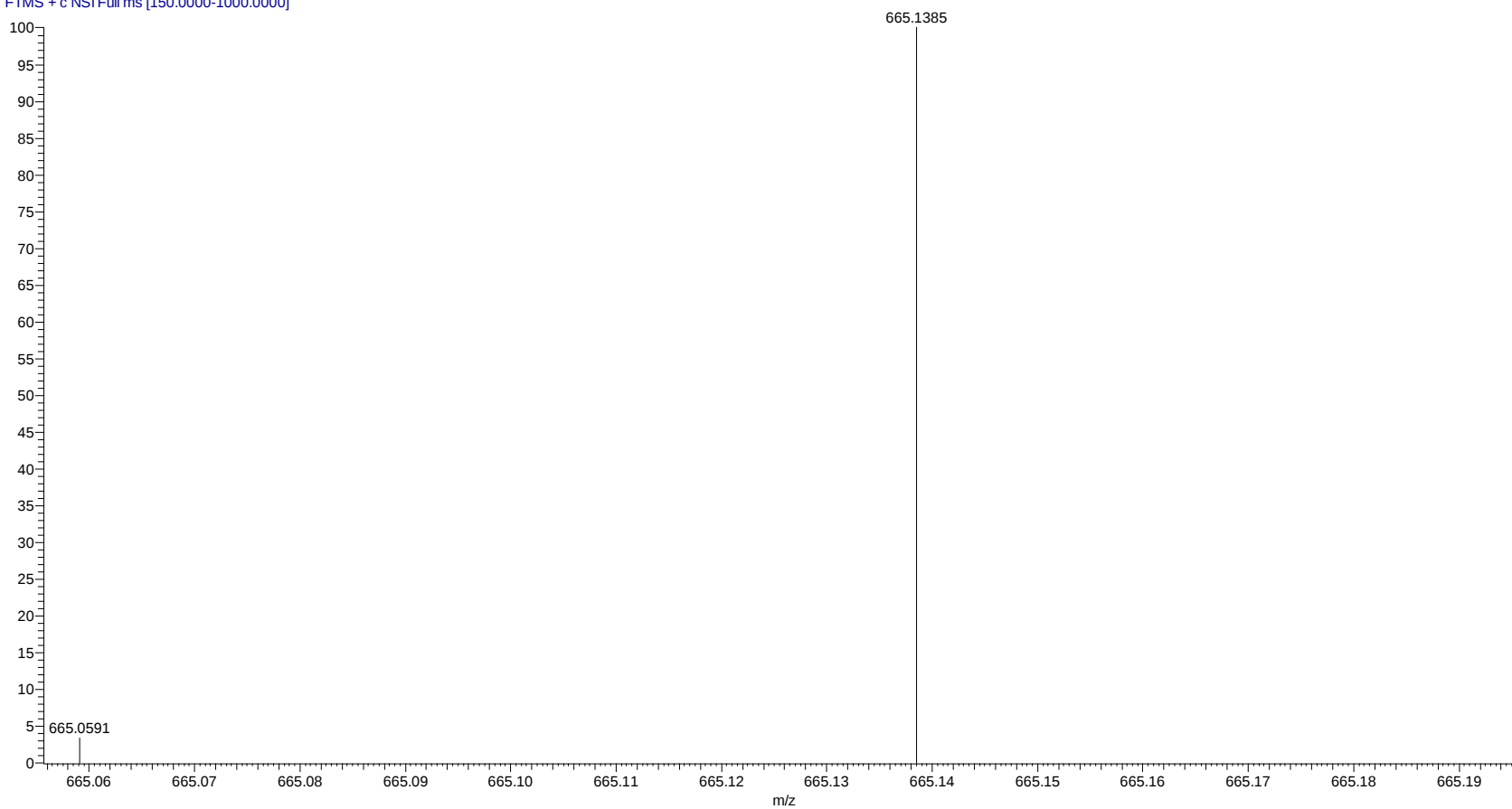
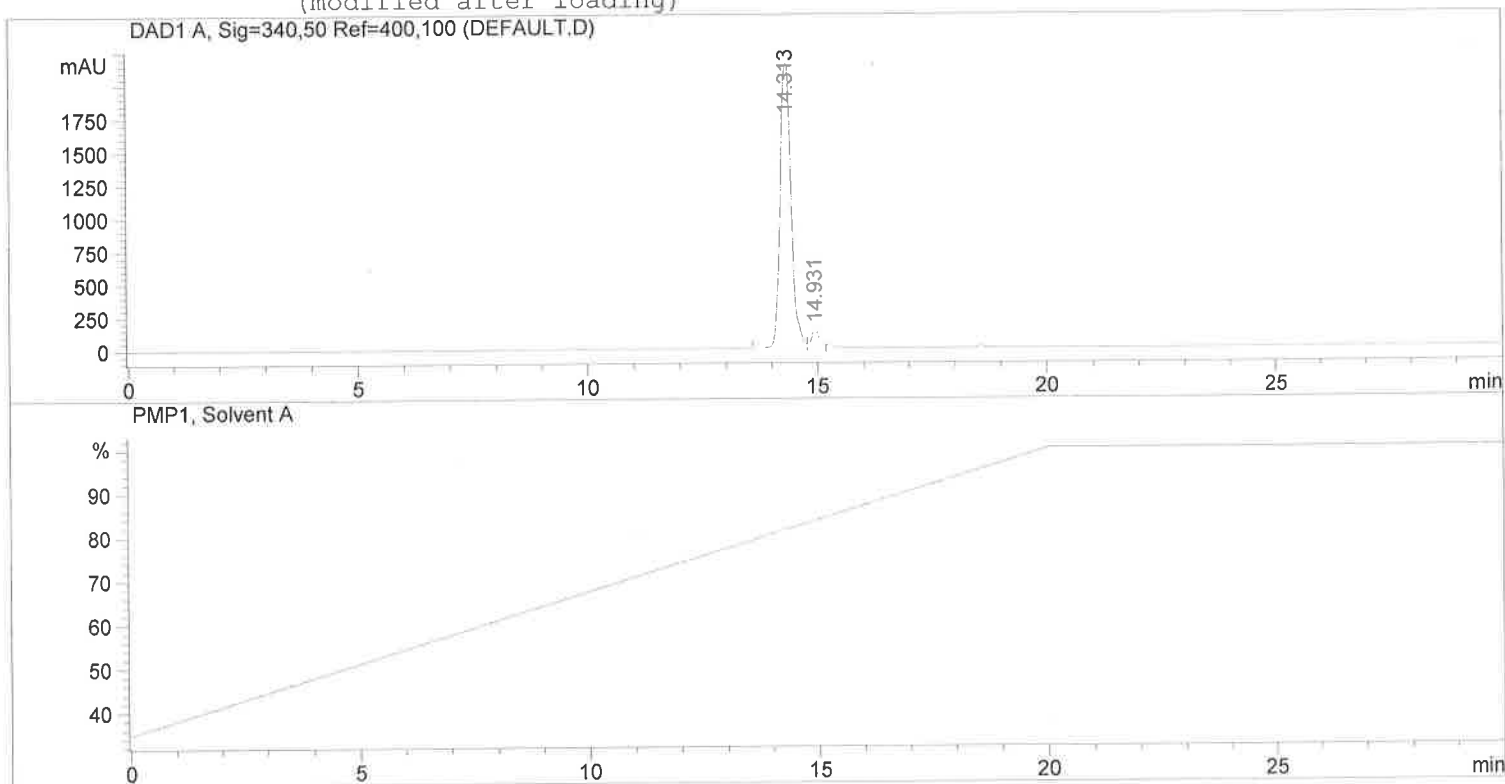


Figure S75: High resolution mass spectrum of **28**

Injection Date : 4/22/2022 11:25:52 AM
Sample Name : SW-66-180-01 Location : Vial 1
Acq. Operator :
Acq. Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/22/2022 10:36:46 AM
(modified after loading)
Analysis Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/22/2022 12:39:03 PM
(modified after loading)



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

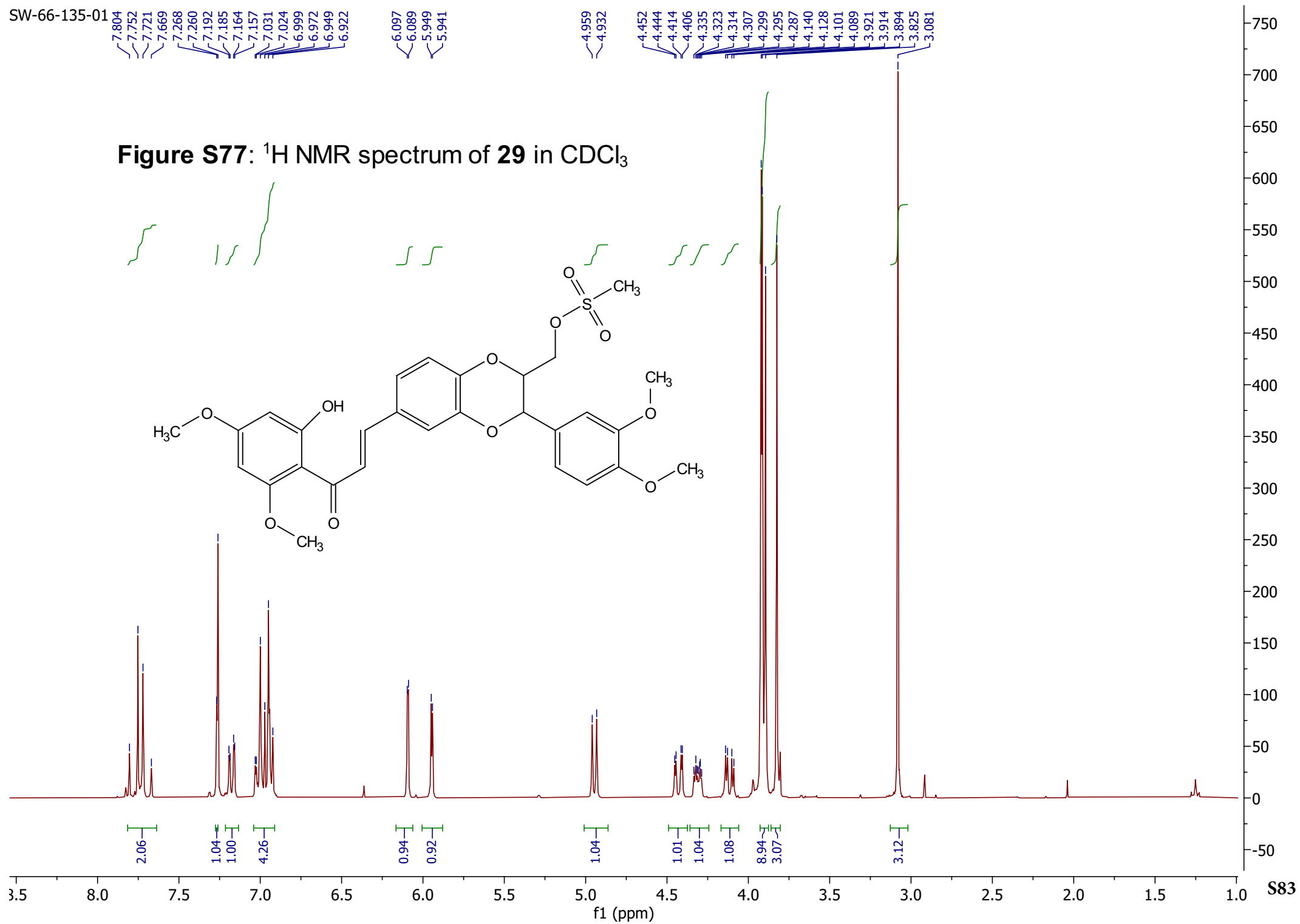
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.313	VV	0.2738	3.53433e4	2151.28345	95.4326
2	14.931	VV	0.1986	1691.51160	141.98376	4.5674

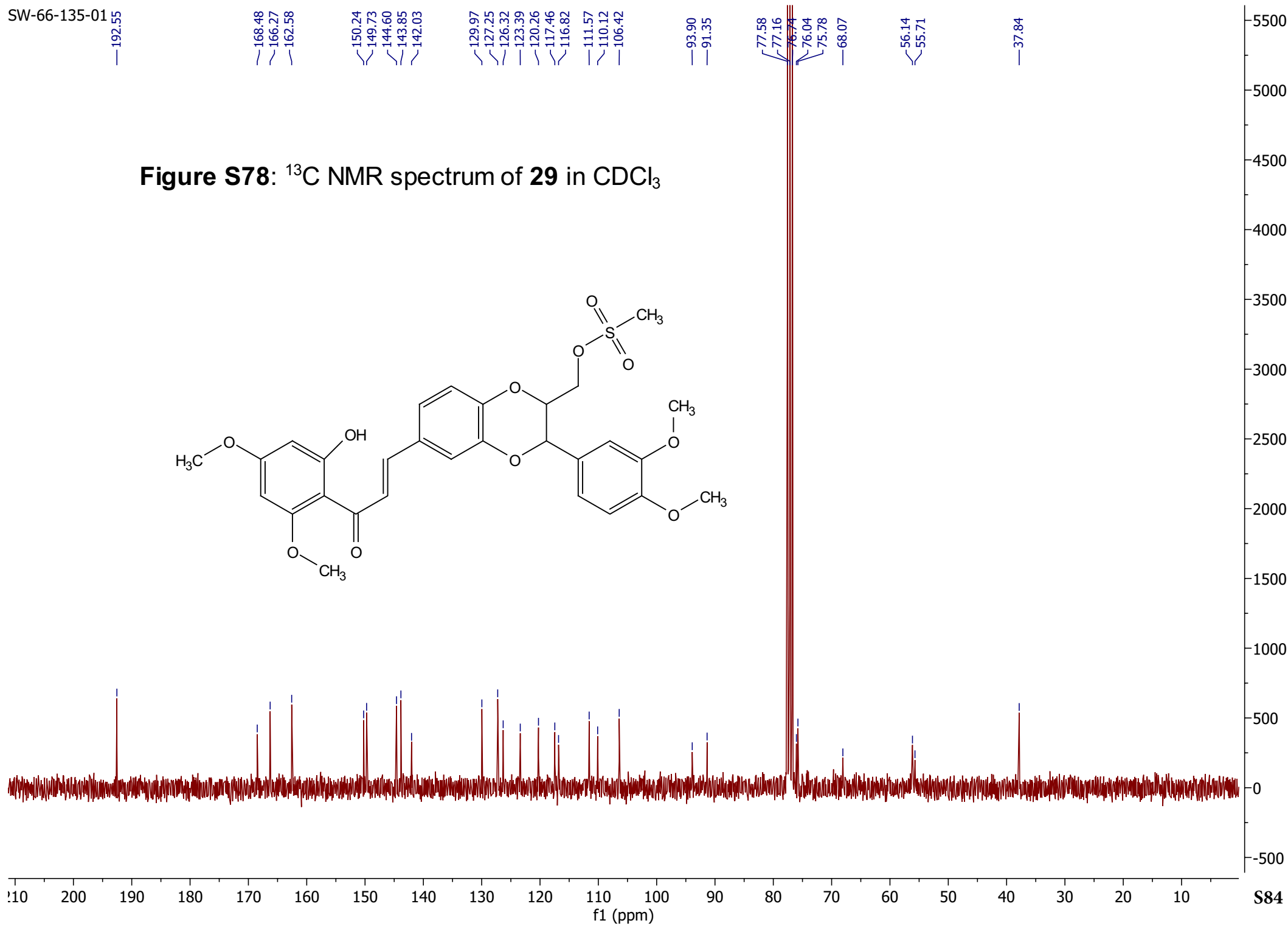
Totals : 3.70348e4 2293.26721

Results obtained with enhanced integrator!

*** End of Report ***

Figure S76: HPLC chromatogram of 28

Figure S77: ^1H NMR spectrum of **29** in CDCl_3 

COC1=CC=C(C(=O)C=C1C2=CC=C(C=C2)C3OC(COC4=CC=C(OC)C(OC)=C4)OC3C5=CC=CC=C5C6=CC=C(C=C6)S(=O)(=O)C)C=C1

SW-66-135-01 C29H30O11S 586.1509 587.1587 **587.1587** 0.0000 0.00

SW-66-135-01 #2115-2750 RT: 11.12-14.45 AV: 636 NL: 6.17E7
T: FTMS + c NSI Full ms [150.0000-1000.0000]

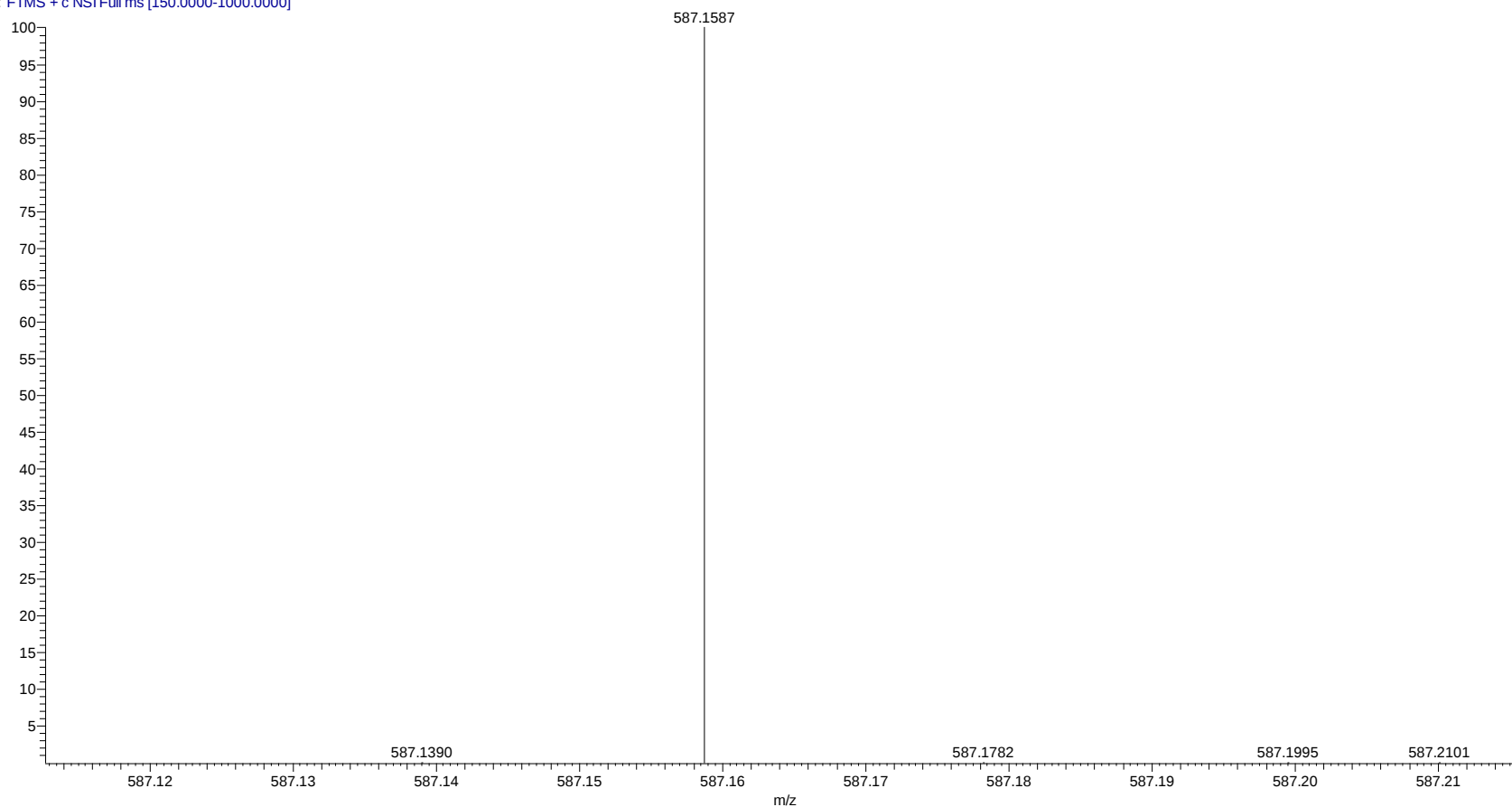
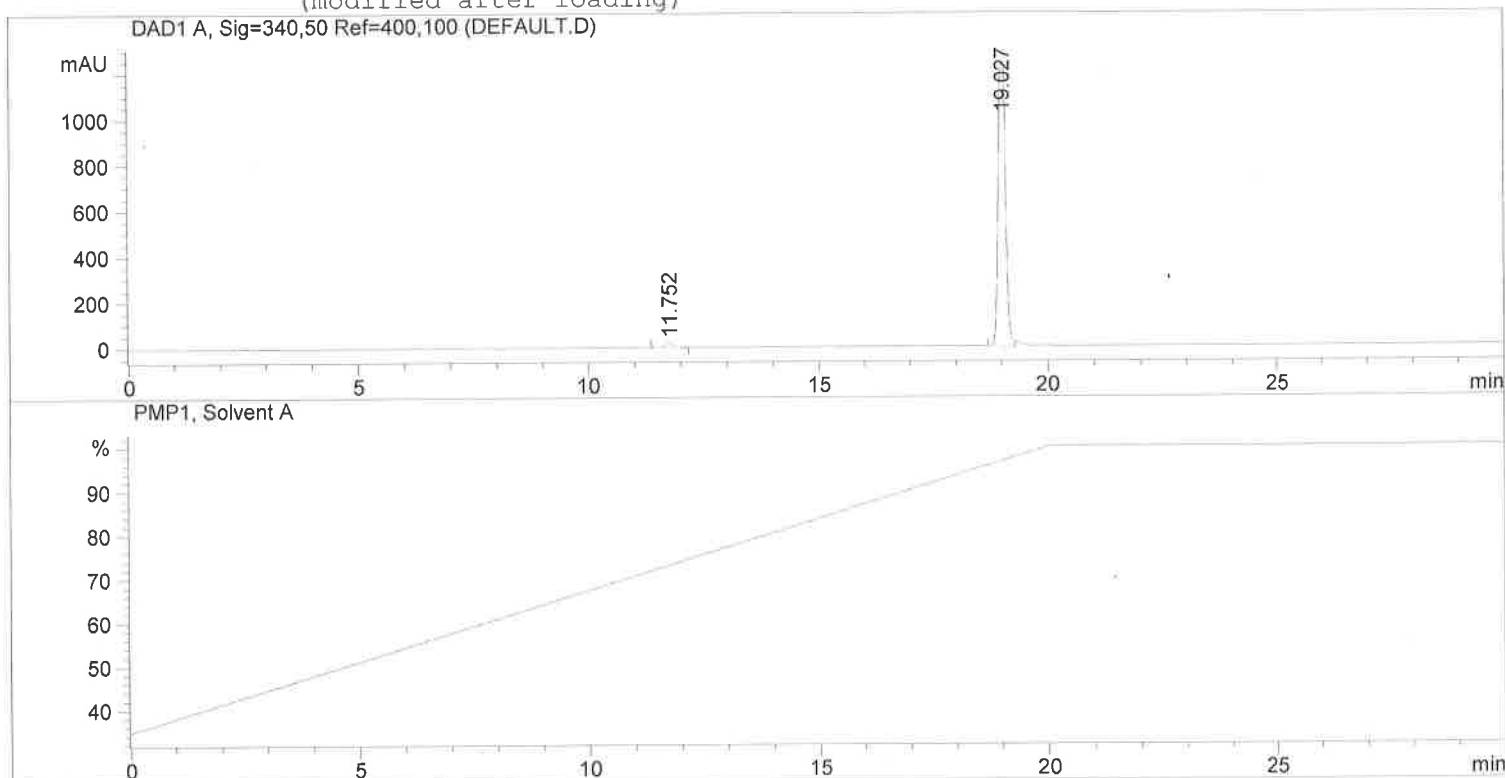


Figure S79: High resolution mass spectrum of **29**

=====

Injection Date : 4/21/2022 3:29:34 PM
Sample Name : SW-66-135-01 Location : Vial 1
Acq. Operator :
Acq. Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/21/2022 3:19:41 PM
(modified after loading)
Analysis Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/21/2022 4:08:06 PM
(modified after loading)



=====

Area Percent Report

=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.752	BB	0.1707	179.36371	17.51204	1.2375
2	19.027	VV	0.1917	1.43146e4	1244.38928	98.7625

Totals : 1.44940e4 1261.90132

Results obtained with enhanced integrator!

=====

*** End of Report ***

Figure S80: HPLC chromatogram of 29

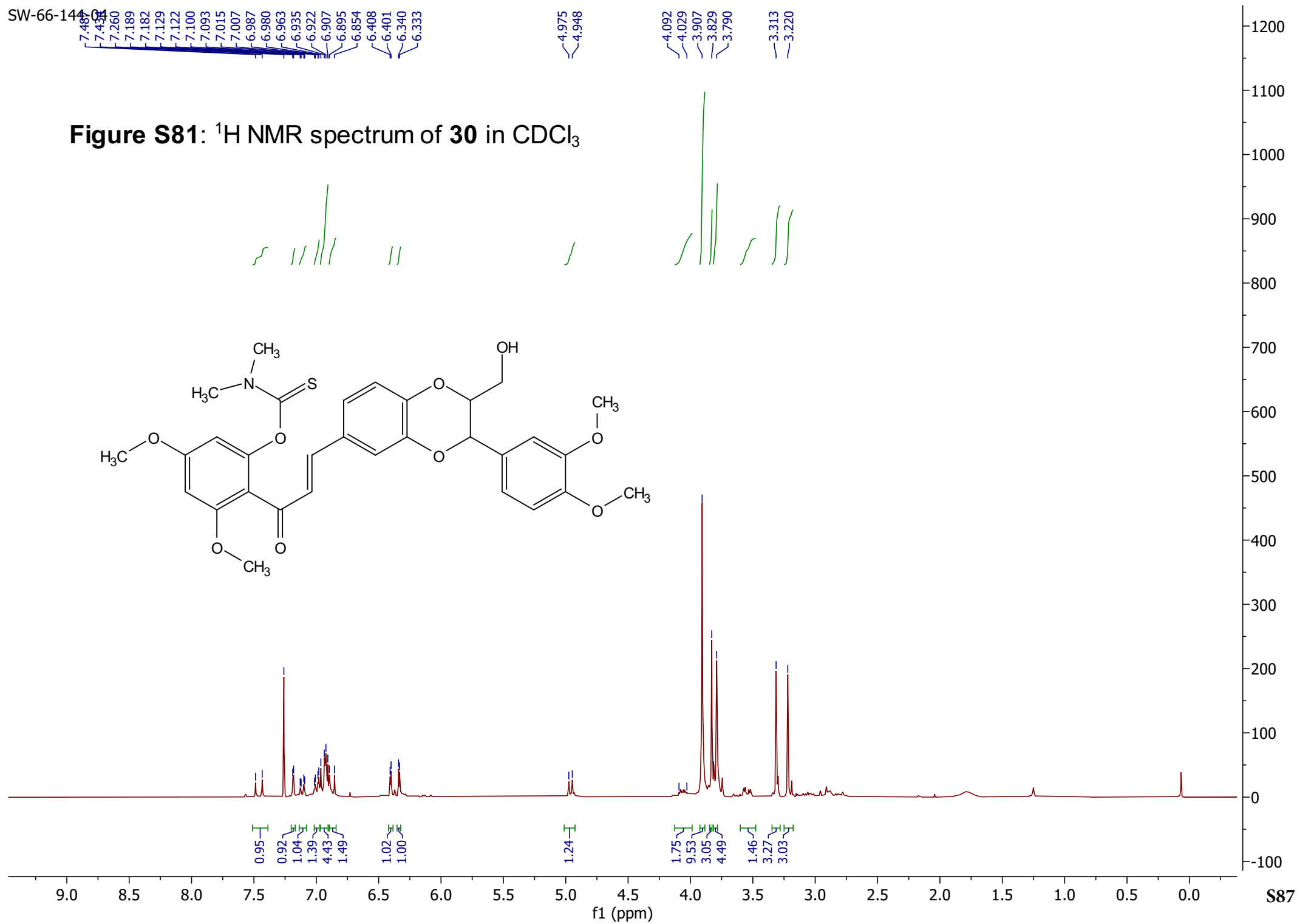
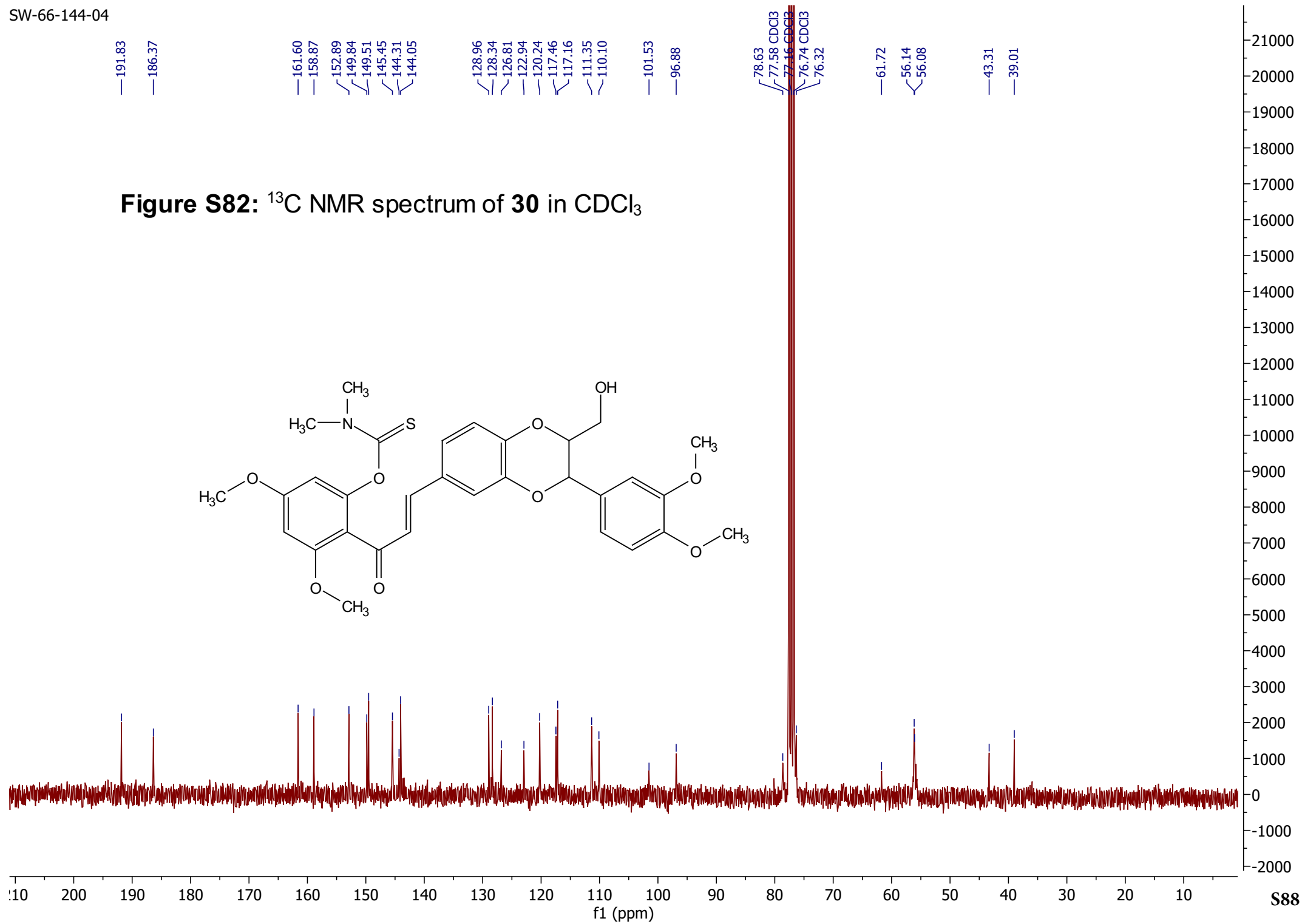
Figure S81: ^1H NMR spectrum of **30** in CDCl_3 

Figure S82: ^{13}C NMR spectrum of **30** in CDCl_3 

SW-66-15 C₃₁H₃₃NO₉S 595.1876 596.1954 **596.1950** -0.0004 -0.74

SW-66-15 #3100-3351 RT: 16.19-17.52 AV: 252 NL: 9.74E6
T: FTMS + c NSI Full ms [150.0000-1000.0000]

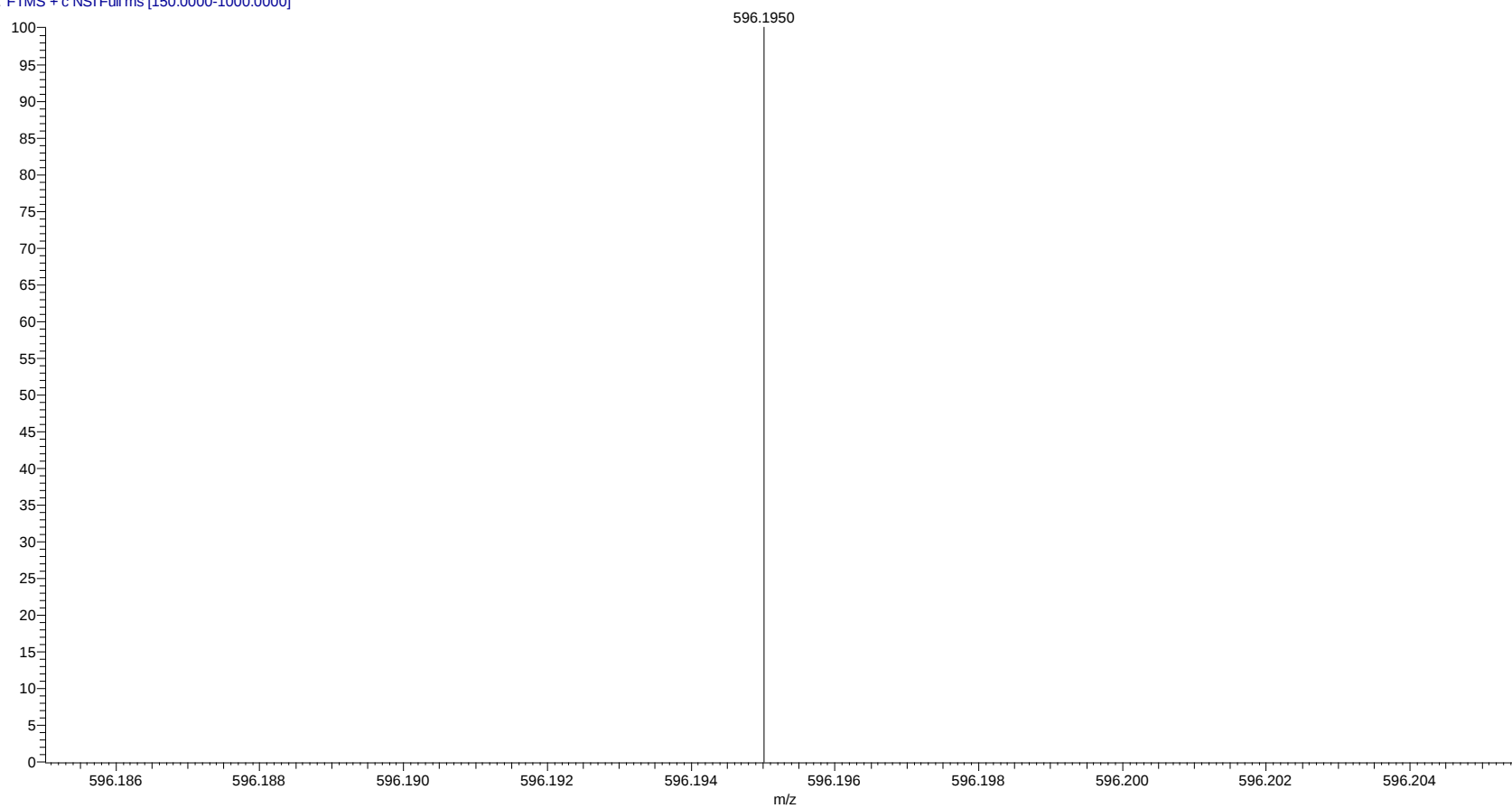
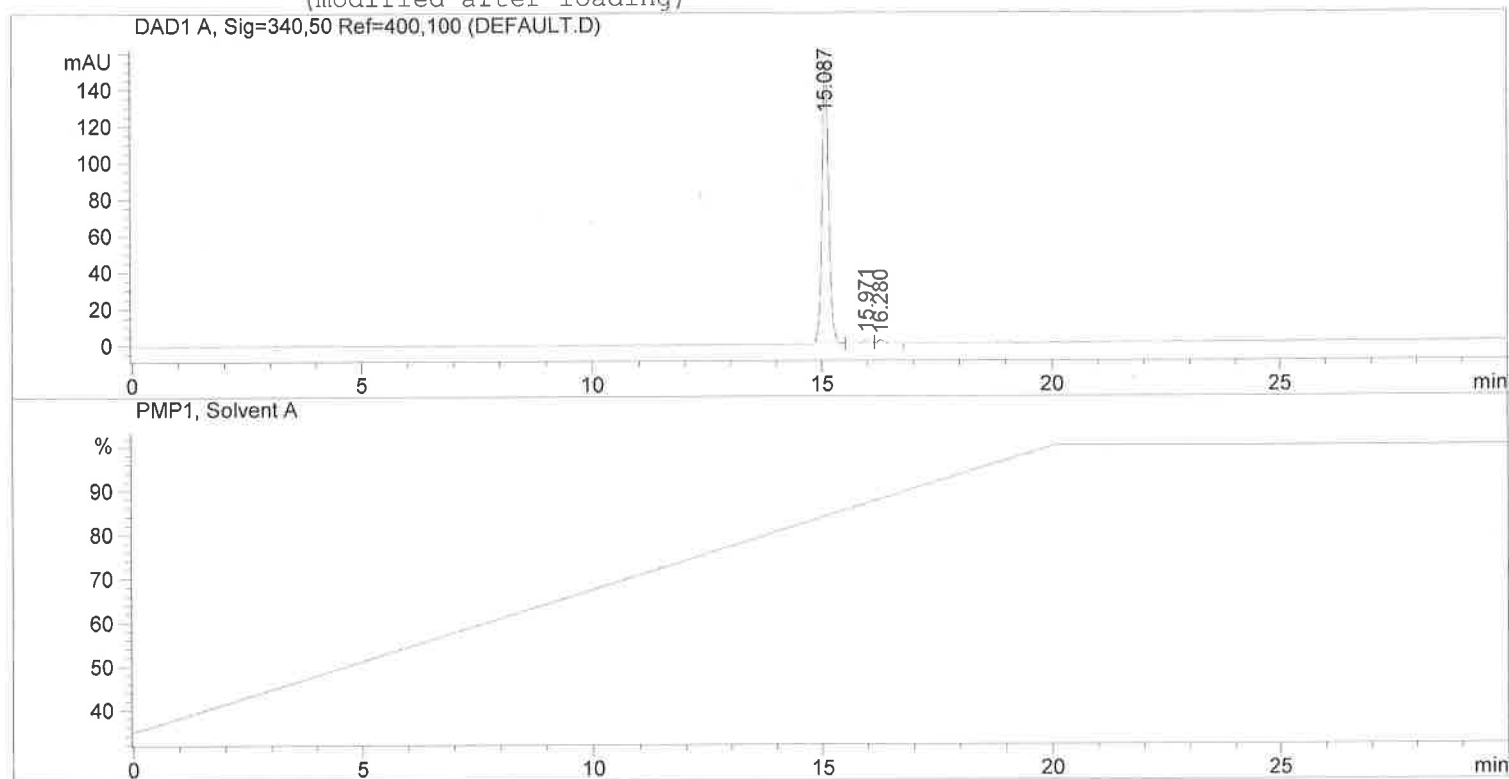


Figure S83: High resolution mass spectrum of **30**

Injection Date : 4/23/2022 1:08:04 PM
Sample Name : SW-66-144-04 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/22/2022 5:19:36 PM
(modified after loading)



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

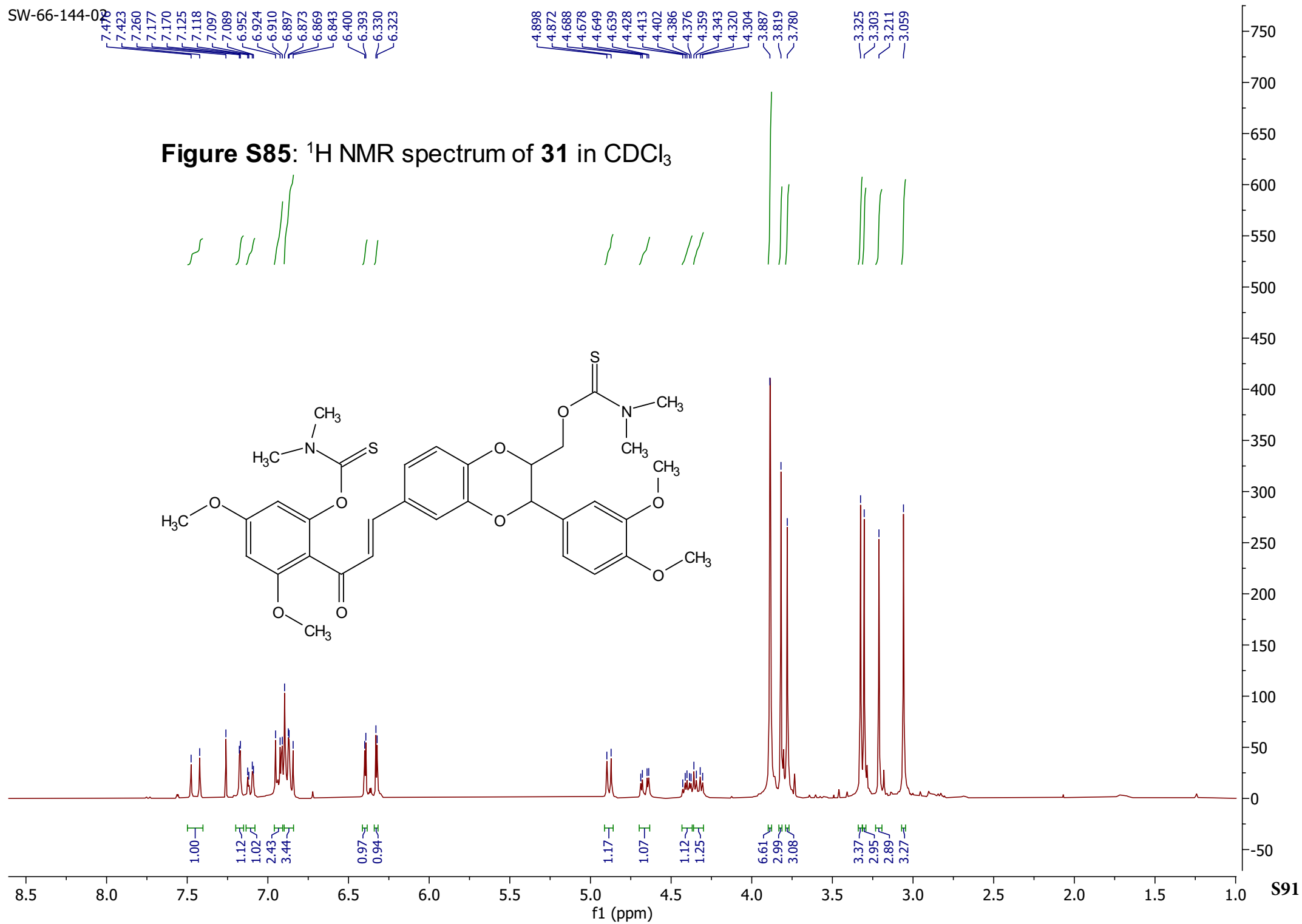
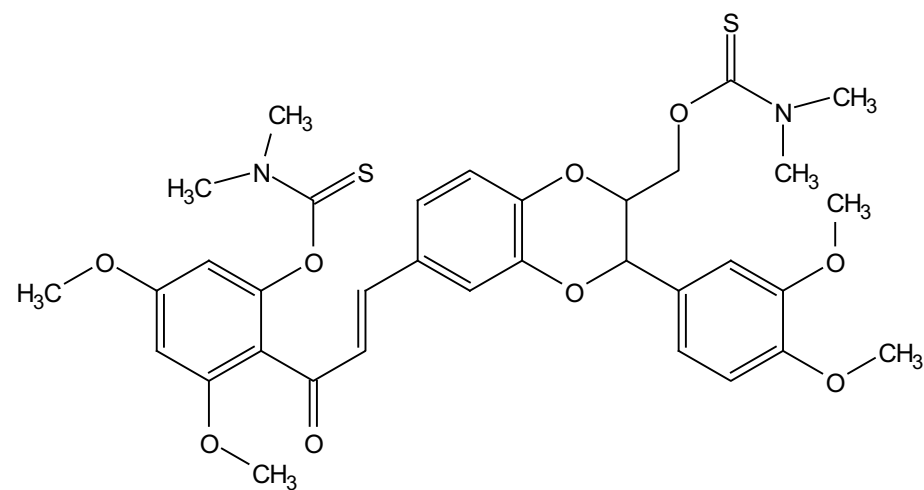
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.087	BV	0.1499	1531.83569	154.23935	96.8516
2	15.971	VV	0.1619	31.13817	2.84065	1.9687
3	16.280	VP	0.1552	18.65778	1.79653	1.1797

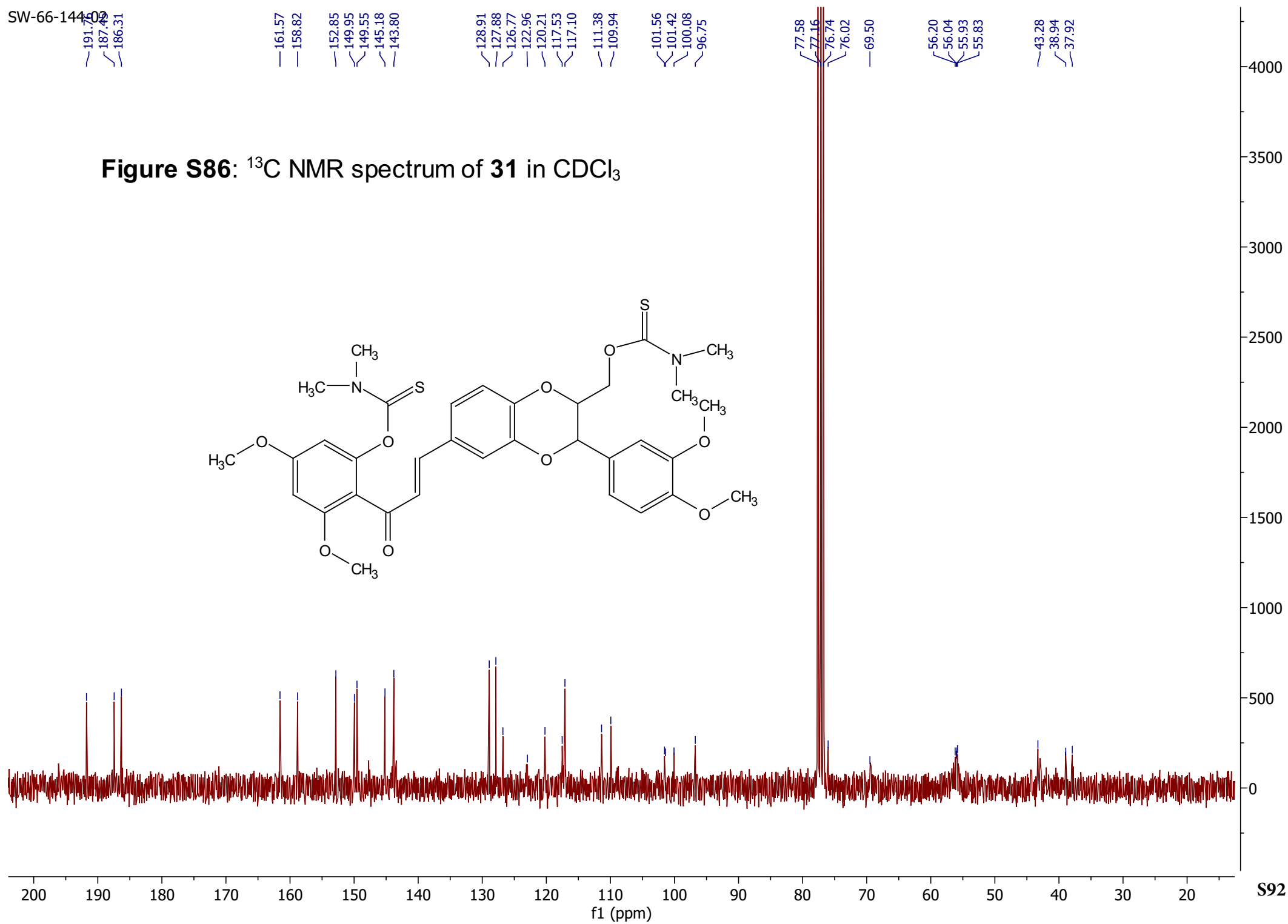
Totals : 1581.63164 158.87653

Results obtained with enhanced integrator!

*** End of Report ***

Figure S84: HPLC chromatogram of 30

Figure S85: ^1H NMR spectrum of **31** in CDCl_3 



SW-66-144-02 C34H38N2O9S2 682.2019 683.2097 **683.2118** 0.0021 3.04

SW-66-144-02 #4868-5055 RT: 26.32-27.31 AV: 188 NL: 5.04E7
T: FTMS + c NSI Full ms [150.0000-1000.0000]

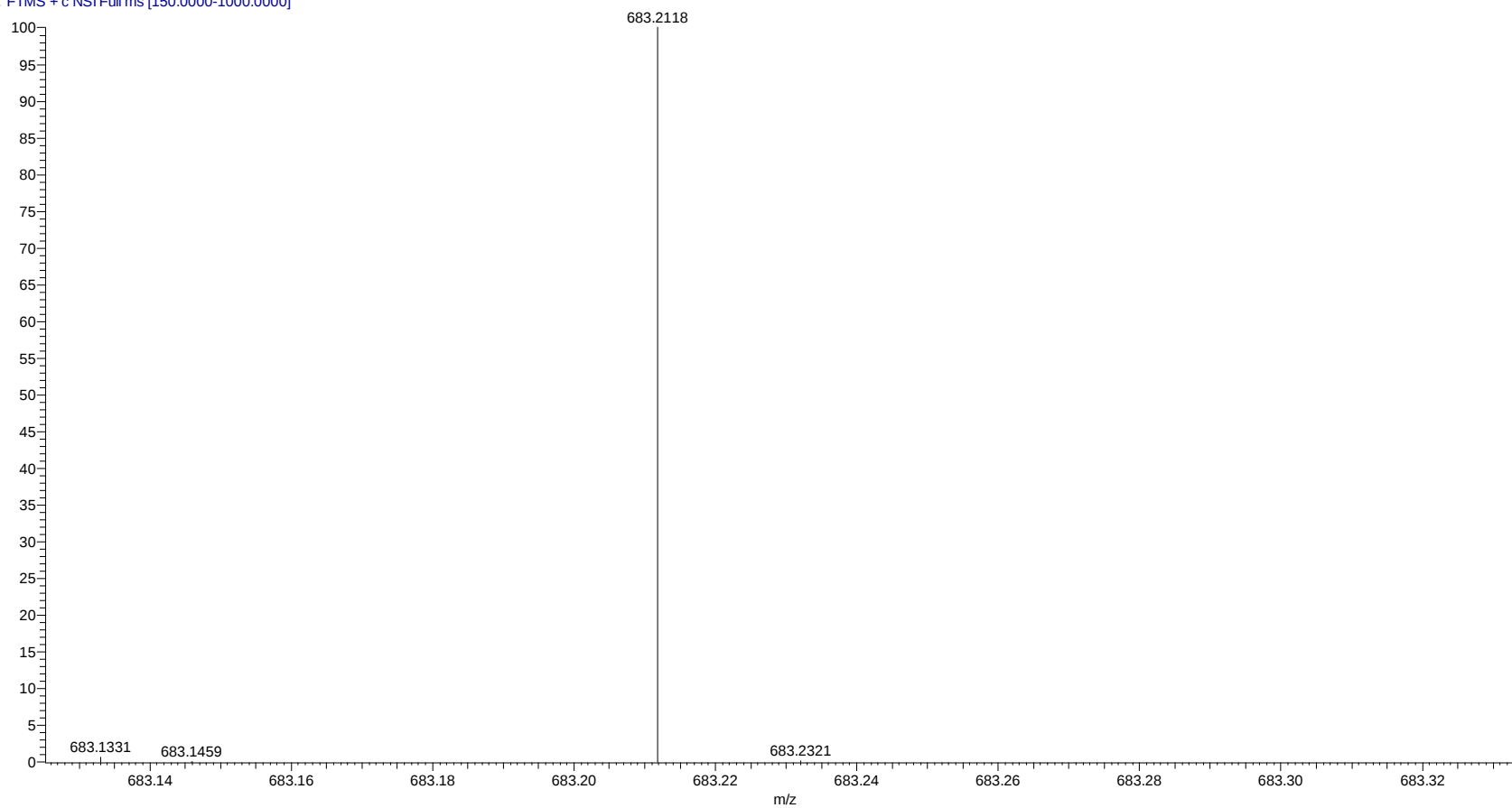
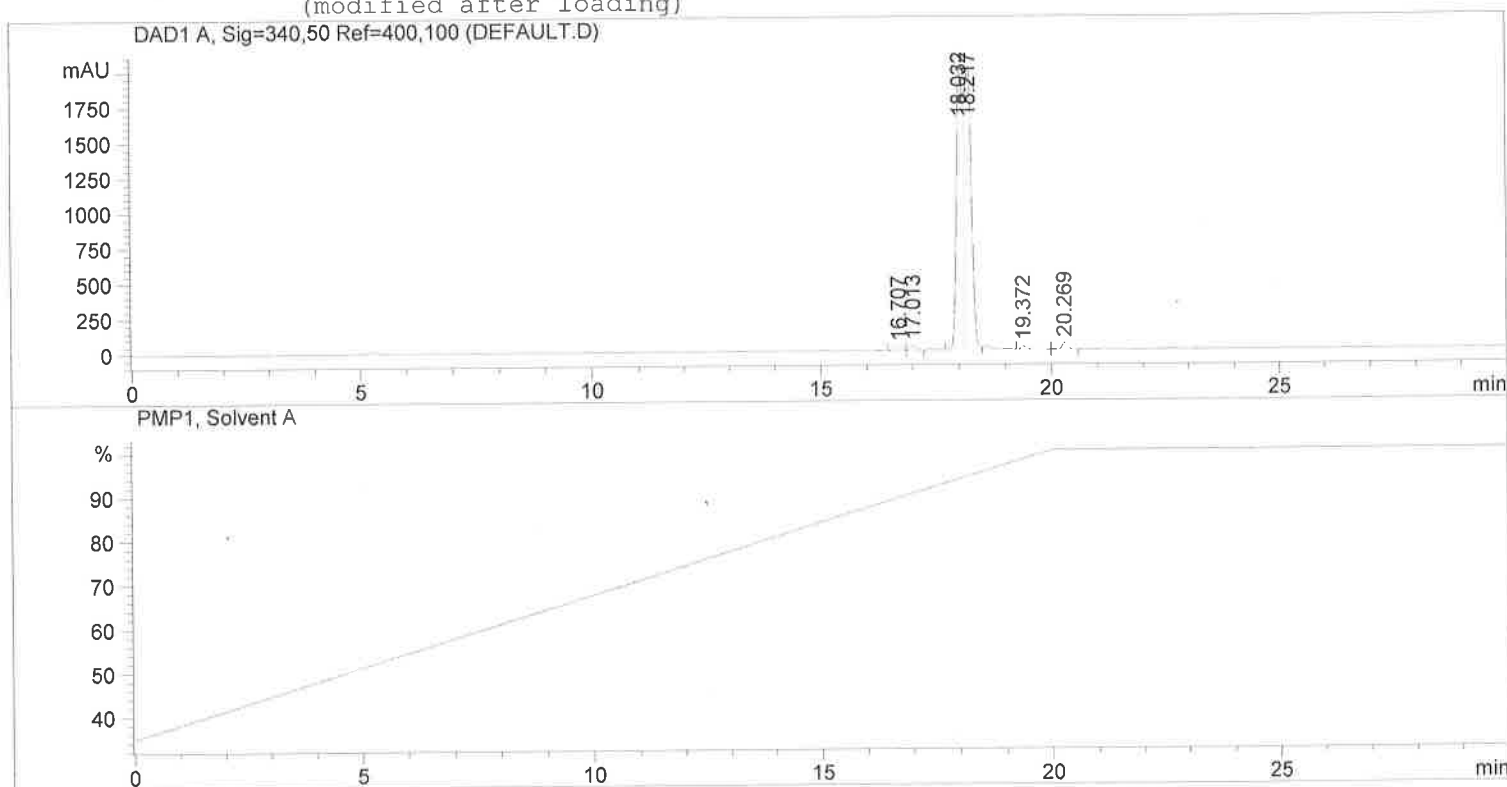


Figure S87: High resolution mass spectrum of **31**

```

=====
Injection Date   : 4/22/2022 5:19:42 PM
Sample Name     : SW-66-144-02
Acq. Operator   :
Method          : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed    : 4/22/2022 5:19:36 PM
                  (modified after loading)
Location        : Vial 1
=====

```



```

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

```

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000

```

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.707	VV	0.1476	230.93034	24.14036	0.5562
2	17.013	VV	0.1470	310.72815	32.66385	0.7484
3	18.032	VV	0.1382	1.95639e4	1999.27563	47.1223
4	18.217	VV	0.1490	2.08223e4	2008.36292	50.1535
5	19.372	VV	0.1367	222.91071	23.91627	0.5369
6	20.269	VB	0.1201	366.44476	46.39542	0.8826

Totals : 4.15173e4 4134.75445

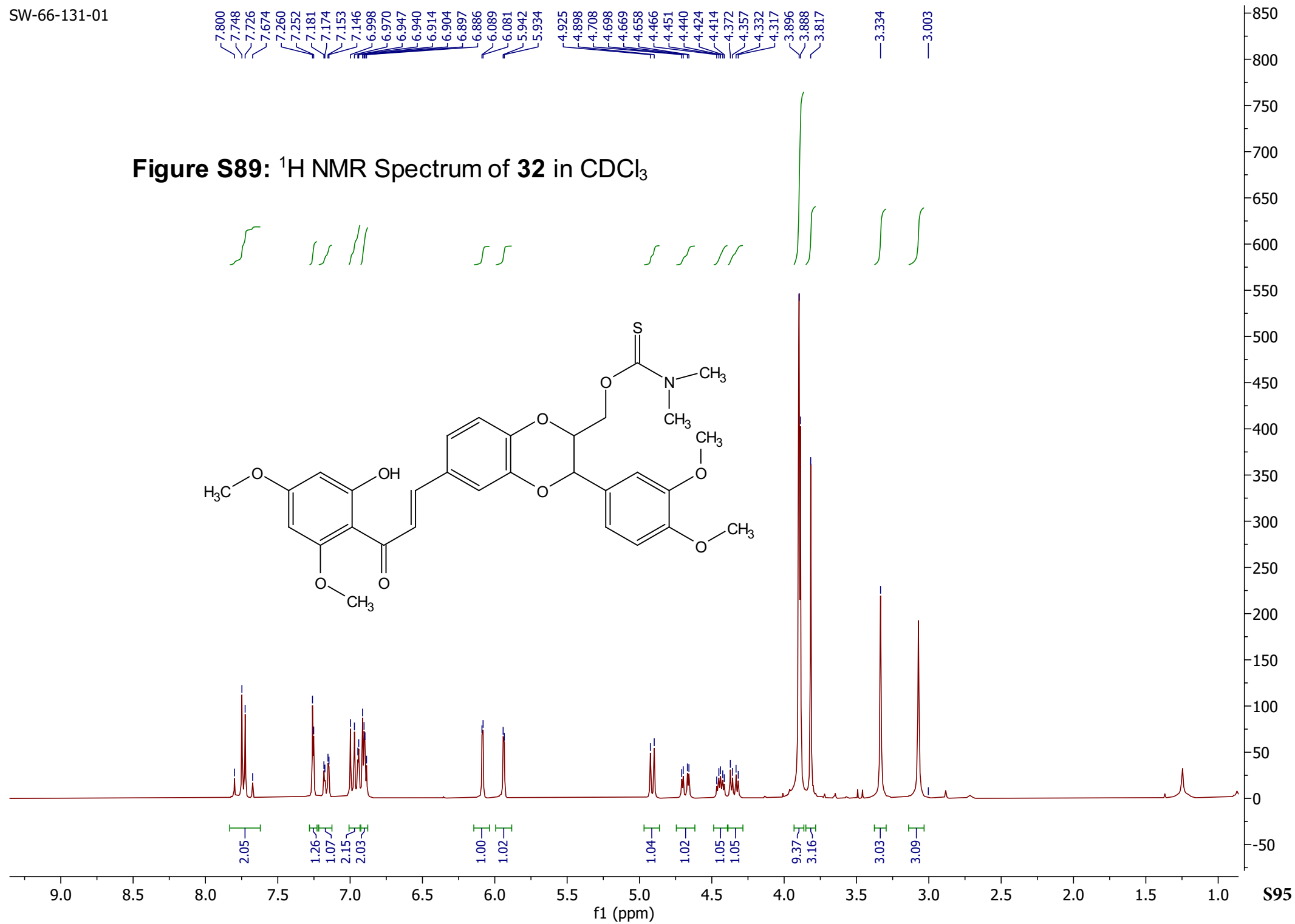
Results obtained with enhanced integrator!

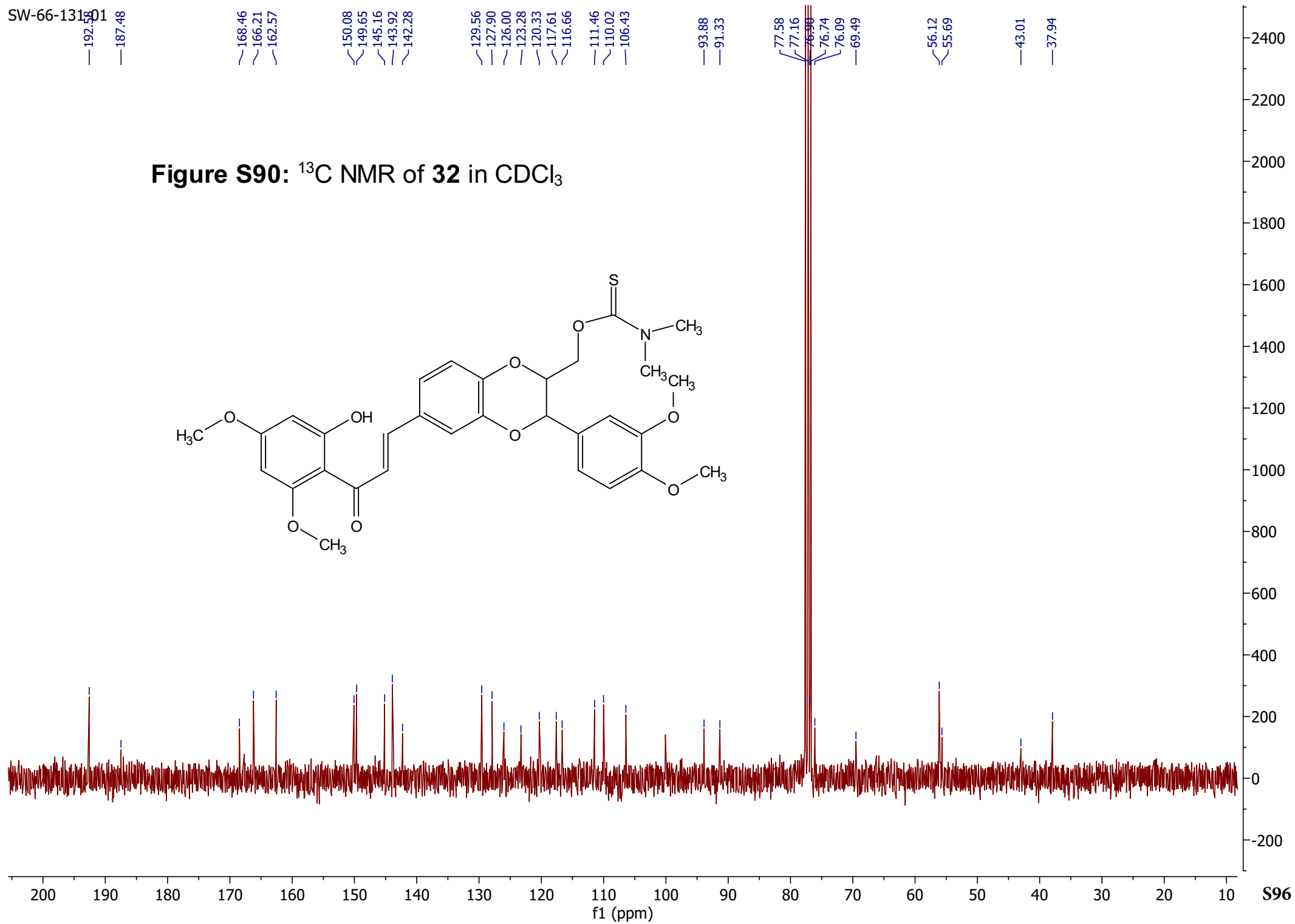
```

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

```

Figure S88: HPLC chromatogram of 31

Figure S89: ^1H NMR Spectrum of **32** in CDCl_3 



SW-66-131-01 C₃₁H₃₃NO₉S 595.1876 596.1954 **596.1953** -0.0001 -0.23

SW-66-131-01 #2292-2681 RT: 12.06-14.09 AV: 390 NL: 4.34E7
T: FTMS + c NSI Full ms [150.0000-1000.0000]

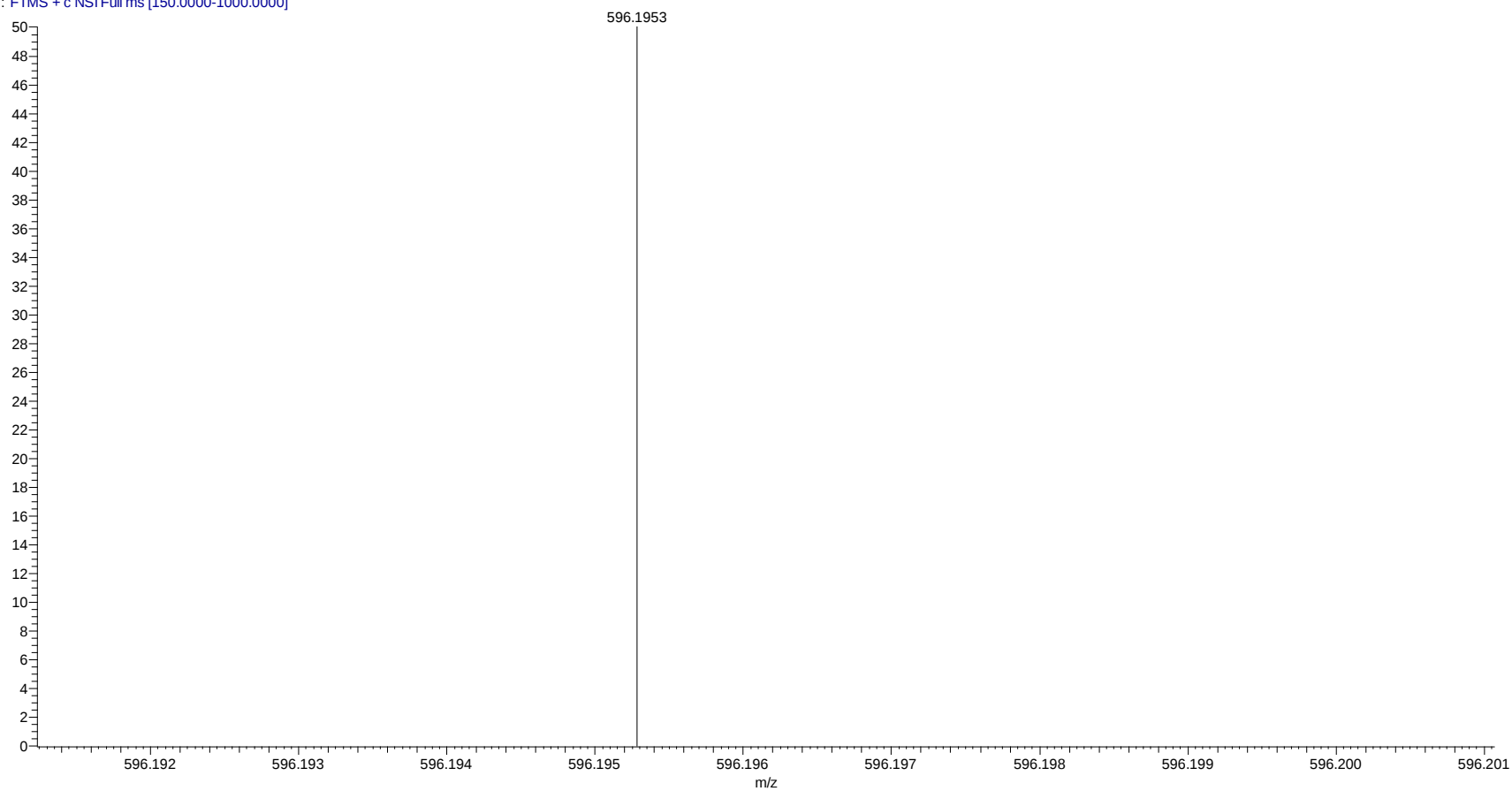
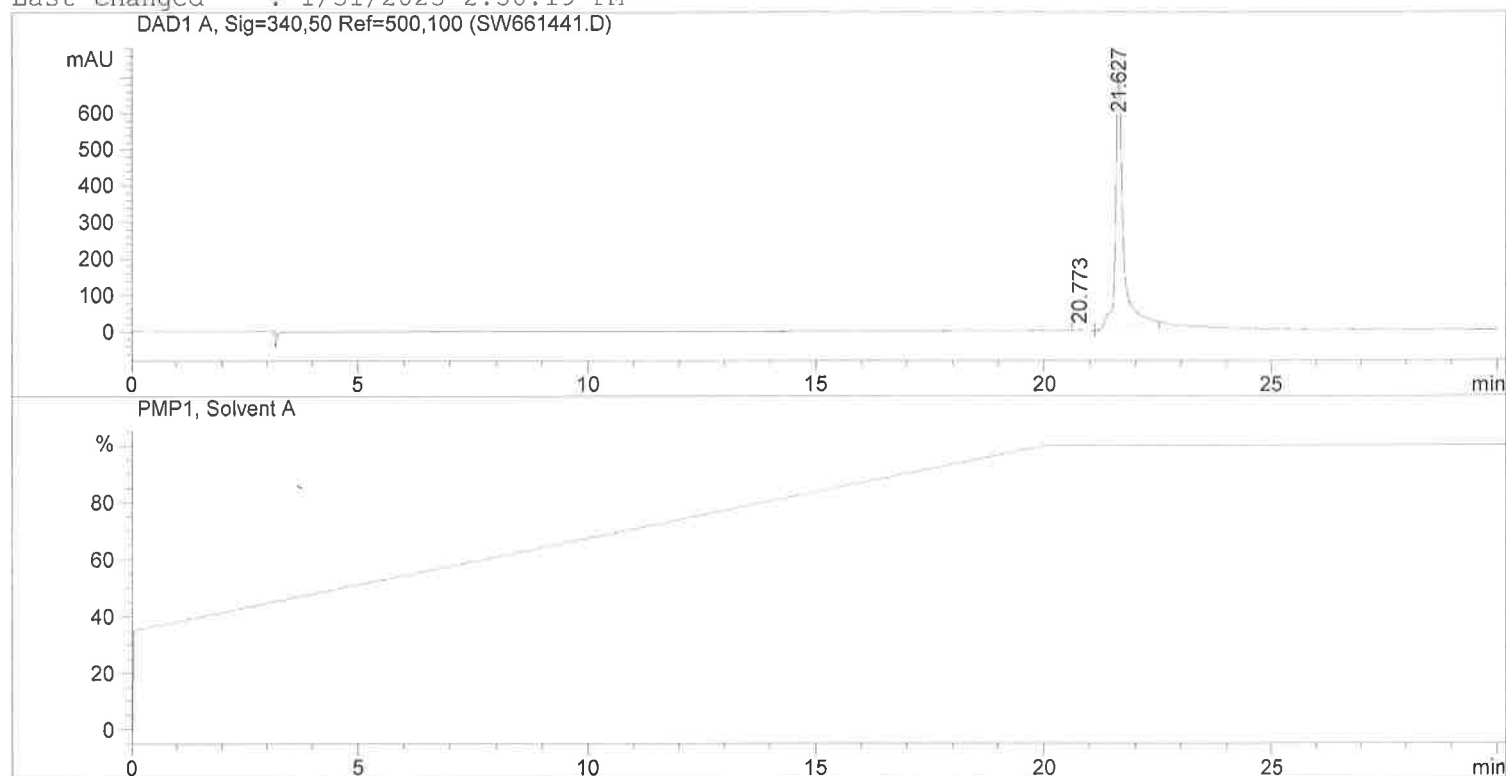


Figure S91: High resolution mass spectrum of **32**

Injection Date : 2/6/2023 12:29:49 PM
Sample Name : SW-66-144-01
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 1/31/2023 2:50:19 PM

Location : Vial 1



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	20.773	PP	0.1418	22.42879	2.29979	0.2767
2	21.627	VB	0.1575	8082.39355	727.97003	99.7233

Totals : 8104.82235 730.26982

Results obtained with enhanced integrator!

*** End of Report ***

Figure S92: HPLC chromatogram of 32

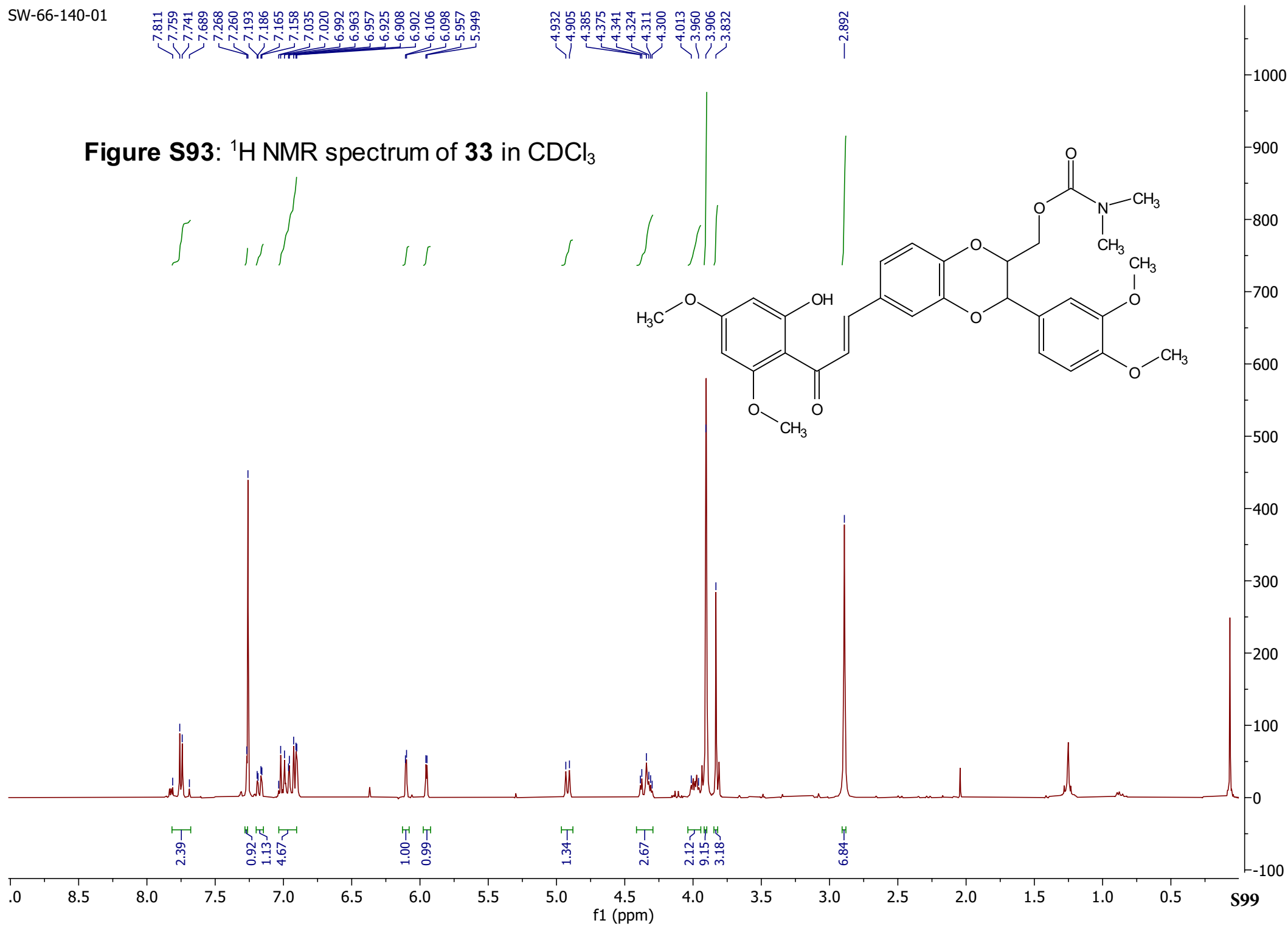
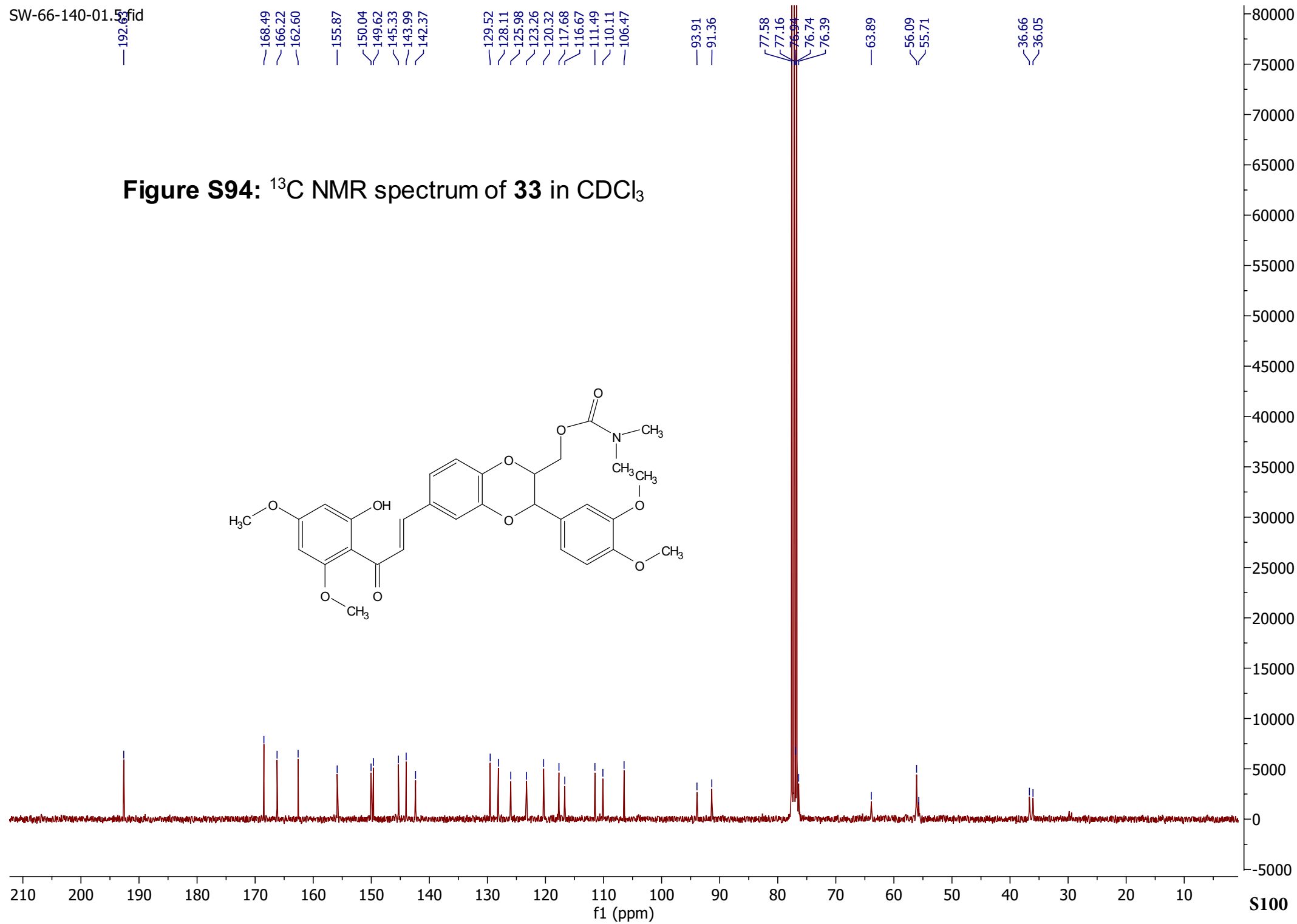


Figure S94: ^{13}C NMR spectrum of **33** in CDCl_3 

SW-66-110 C₃₄H₄₂O₉Si 622.2599 623.2677 **623.2675** -0.0002 -0.26

SW-66-110 #2118-2737 RT: 11.14-14.38 AV: 620 NL: 2.85E8
T: FTMS + c NSI Full ms [150.0000-1000.0000]

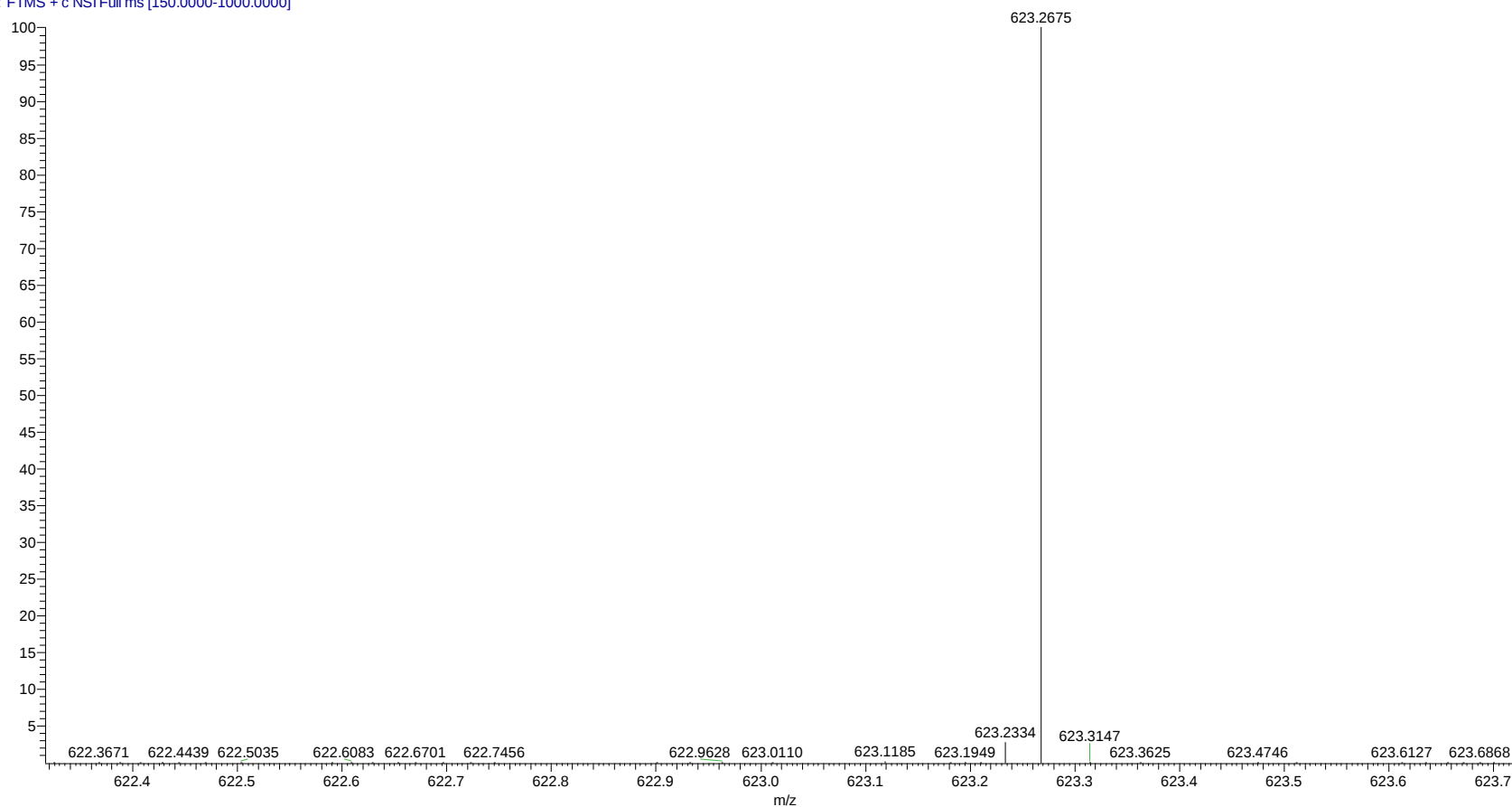
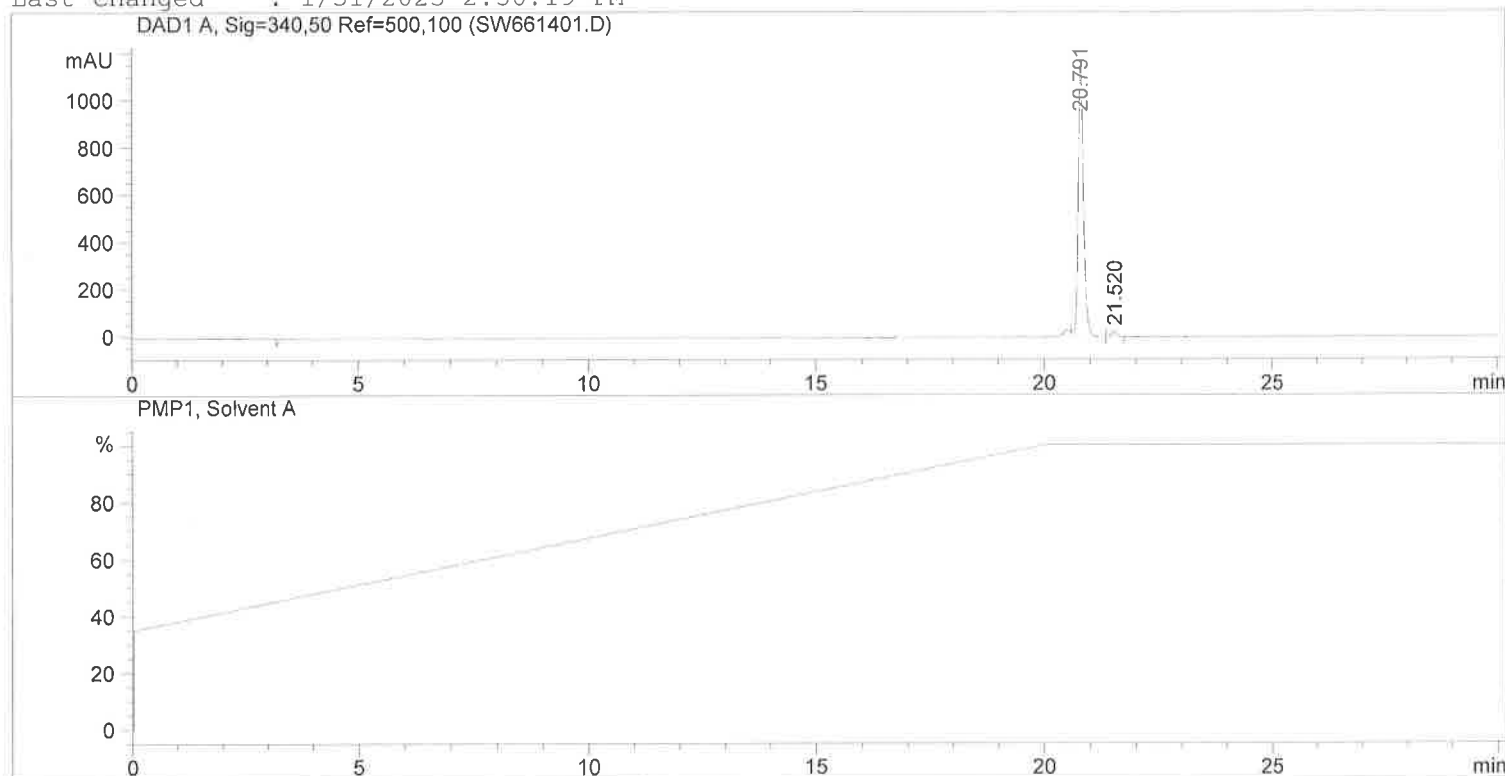


Figure S55: High resolution mass spectrum of **23**

Injection Date : 2/6/2023 11:14:57 AM
Sample Name : SW-66-140-01
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 1/31/2023 2:50:19 PM

Location : Vial 1



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	20.791	VV	0.1214	9306.10449	1162.17249	97.7461
2	21.520	VV	0.1277	214.58498	25.10204	2.2539

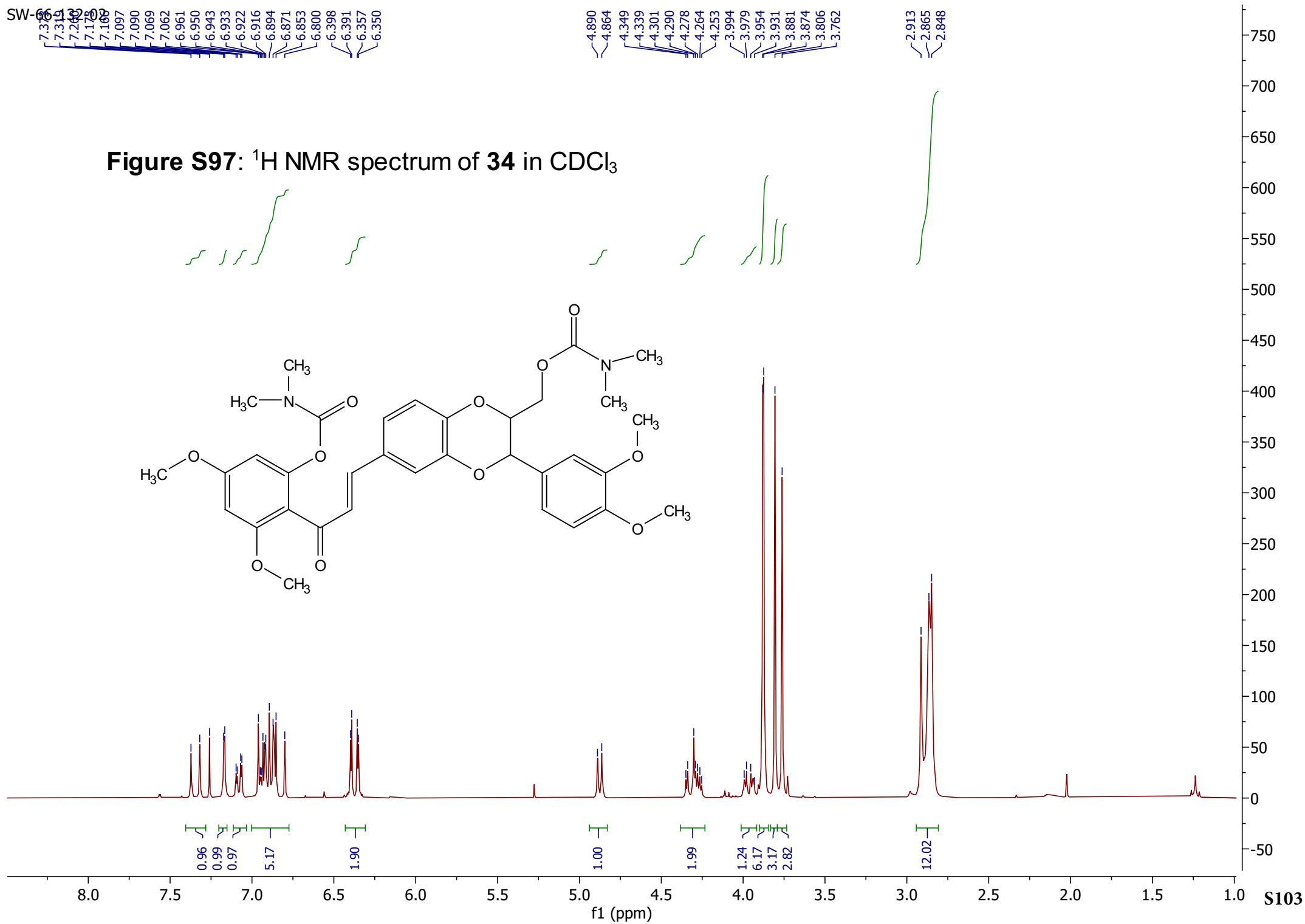
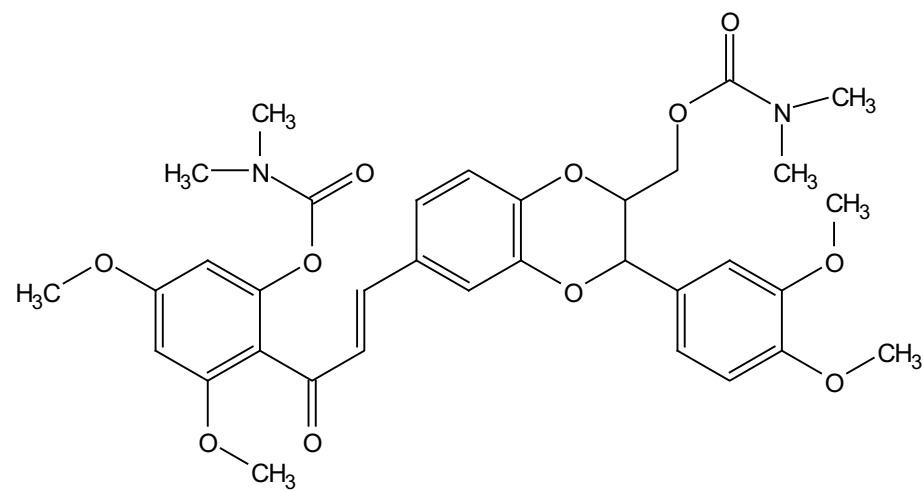
Totals : 9520.68947 1187.27452

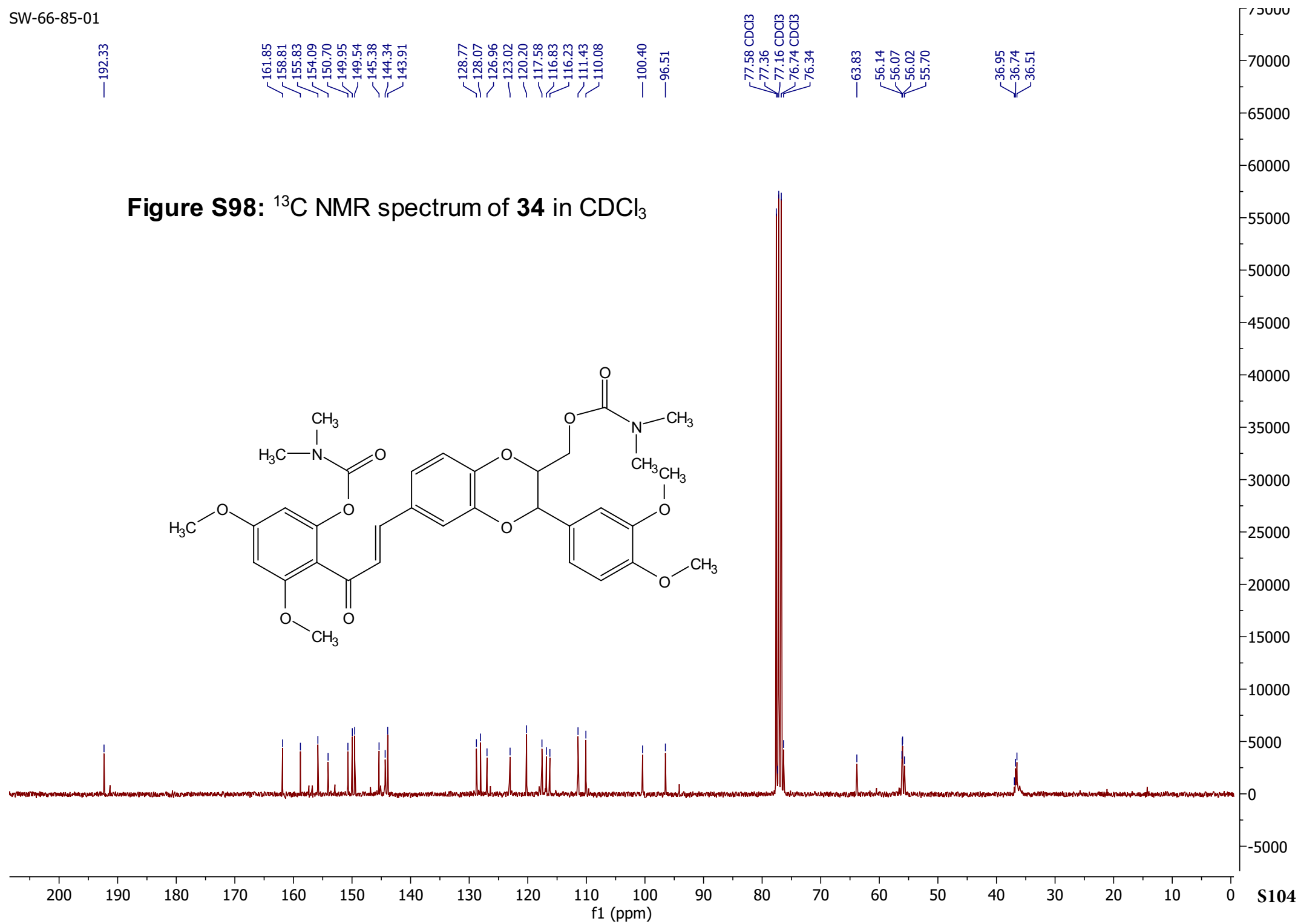
Results obtained with enhanced integrator!

*** End of Report ***

Figure S96: HPLC chromatogram of 33

S102

Figure S97: ^1H NMR spectrum of **34** in CDCl_3 



SW-66-132-02 C34H38N2O11 650.2476 651.2554 **651.2551** -0.0003 -0.49

SW-66-132-02 #2122-3923 RT: 11.16-20.64 AV: 1802 NL: 4.30E7
T: FTMS + c NSI Full ms [150.0000-1000.0000]

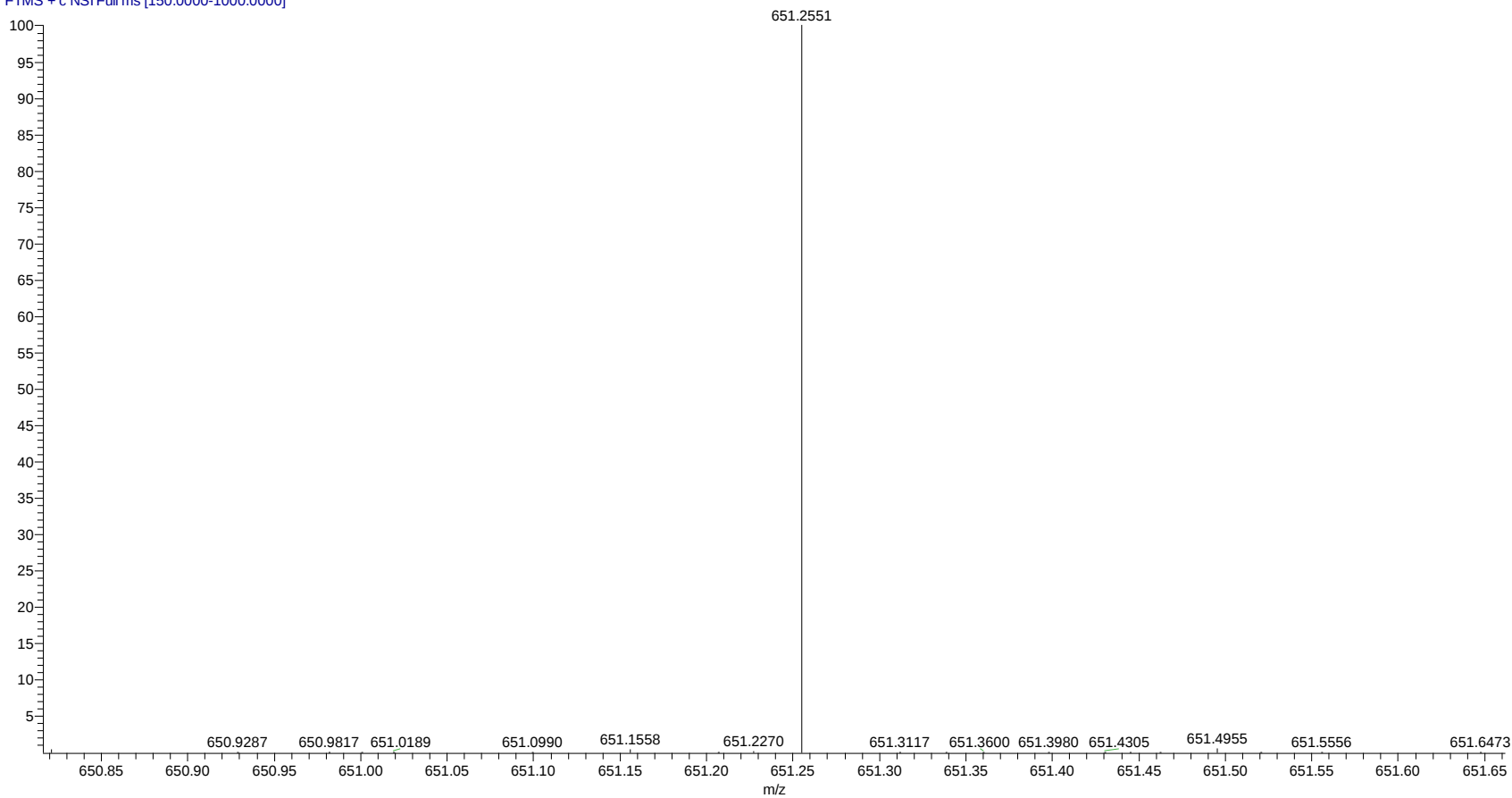
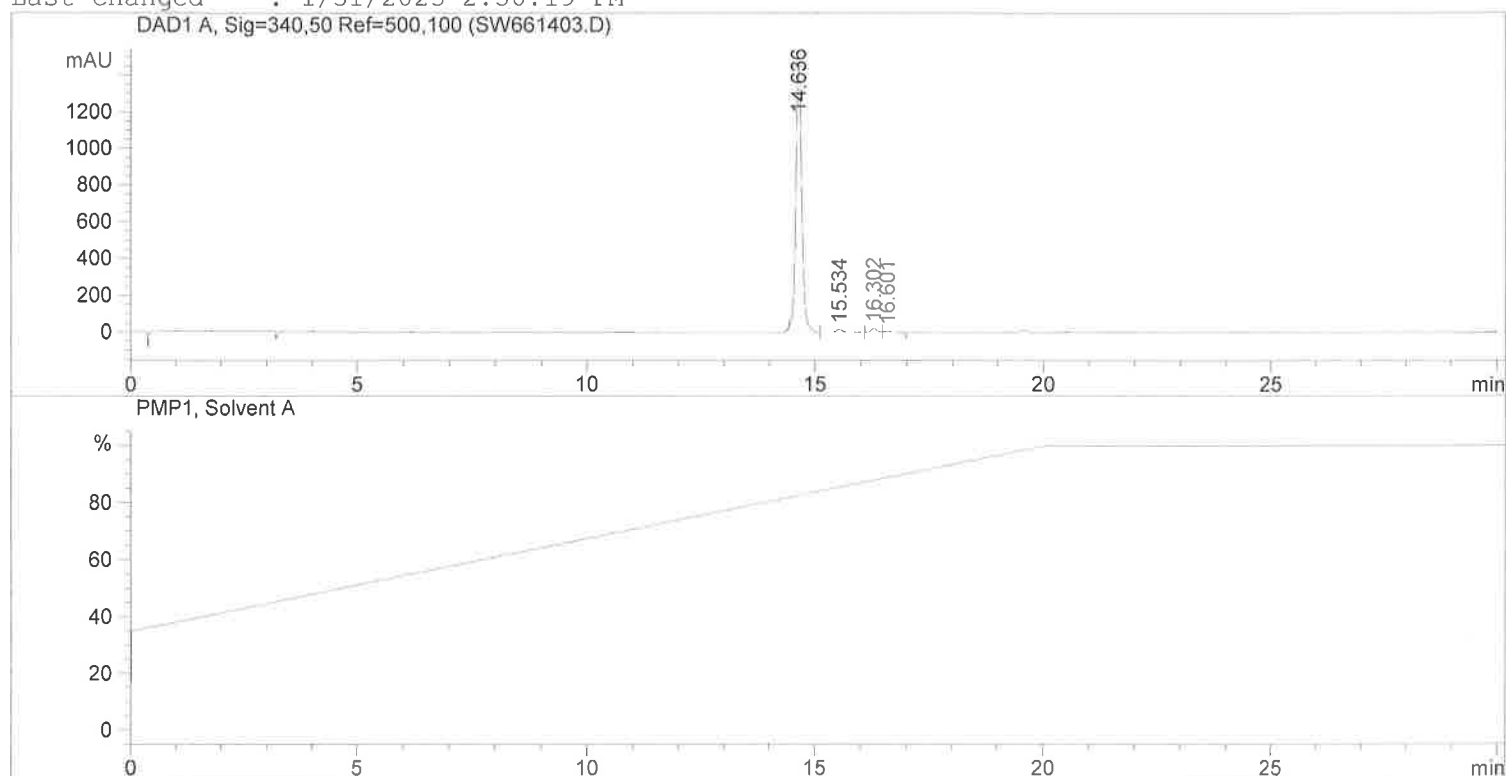


Figure S99: High resolution mass spectrum of **34**

Injection Date : 2/6/2023 1:47:08 PM
Sample Name : SW-66-140-03 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 1/31/2023 2:50:19 PM



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.636	BV	0.1380	1.32796e4	1462.15613	96.9989
2	15.534	VP	0.1466	165.07674	16.81067	1.2058
3	16.302	VV	0.1337	181.16257	20.77712	1.3233
4	16.601	VP	0.1455	64.62059	6.64403	0.4720

Totals : 1.36904e4 1506.38795

Results obtained with enhanced integrator!

*** End of Report ***

Figure S100: HPLC chromatogram of 34

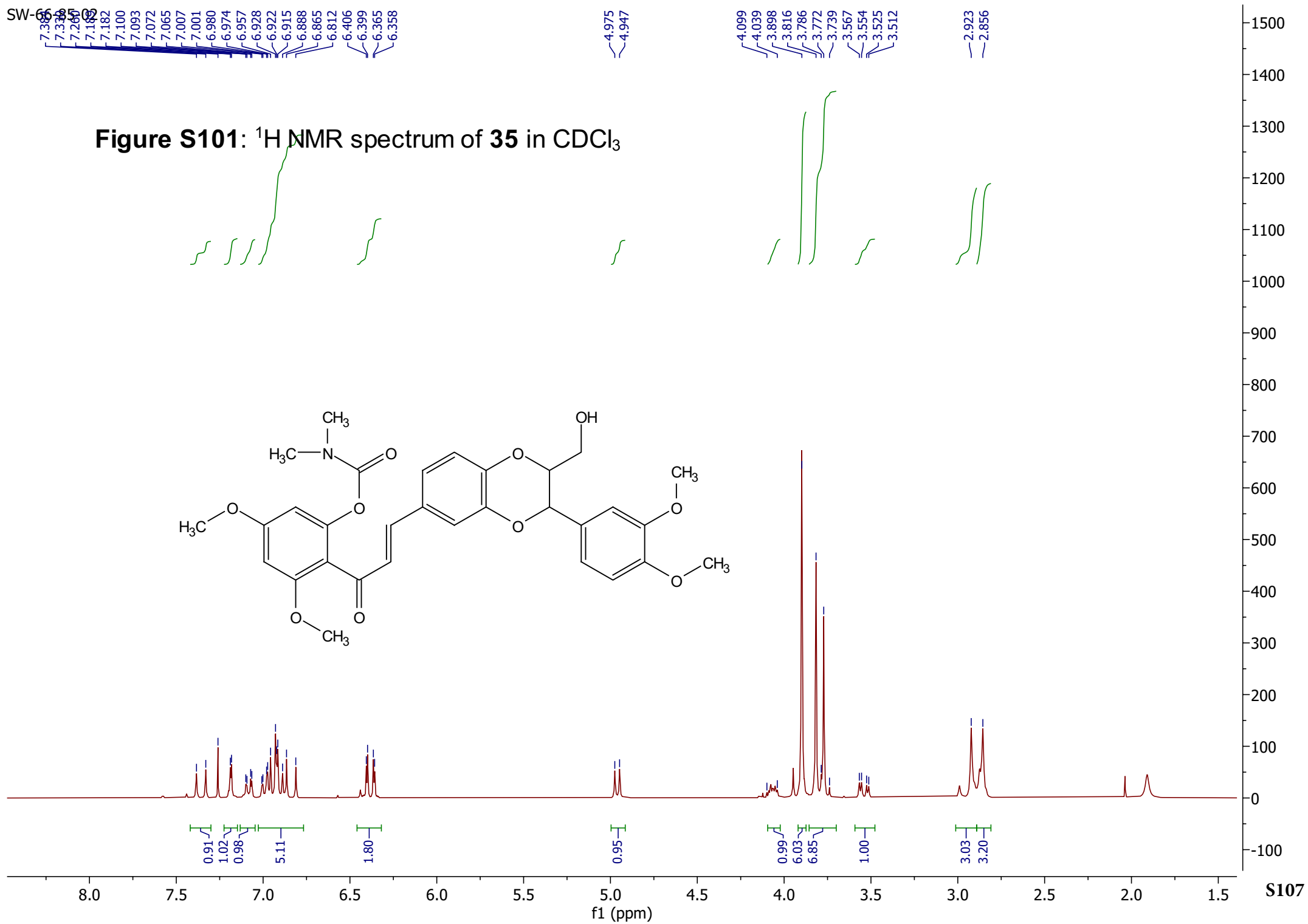
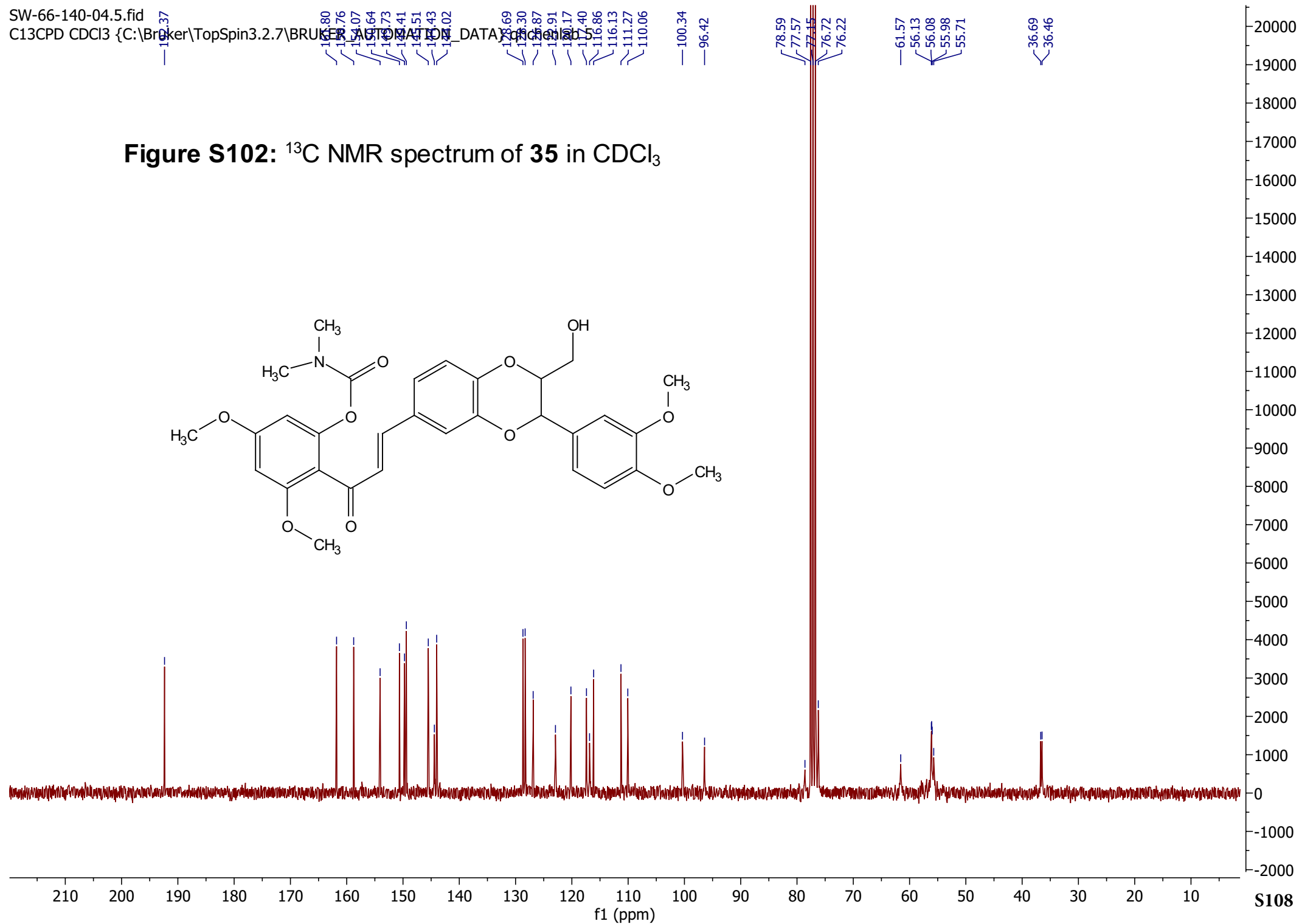
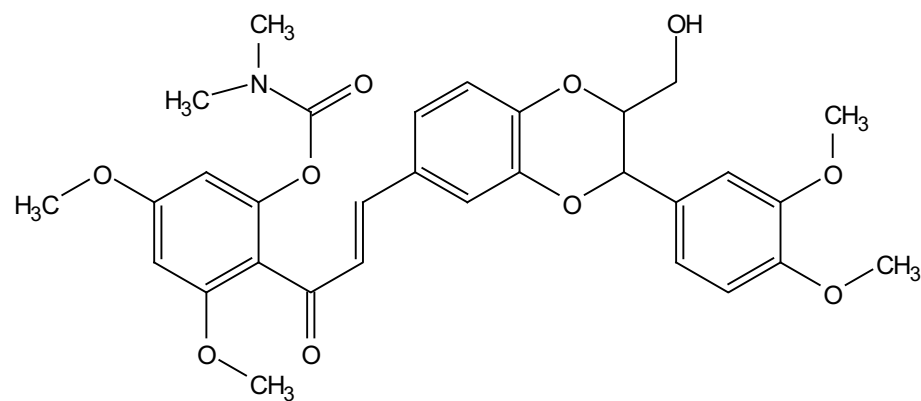


Figure S102: ^{13}C NMR spectrum of **35** in CDCl_3 

SW-66-140-04 C₃₁H₃₃NO₁₀ 579.2105 580.2183 **580.2180** -0.0003 -0.50

SW-66-140-04 #2227-2486 RT: 11.71-13.07 AV: 260 NL: 4.41E8
T: FTMS + c NSI Full ms [150.0000-1000.0000]

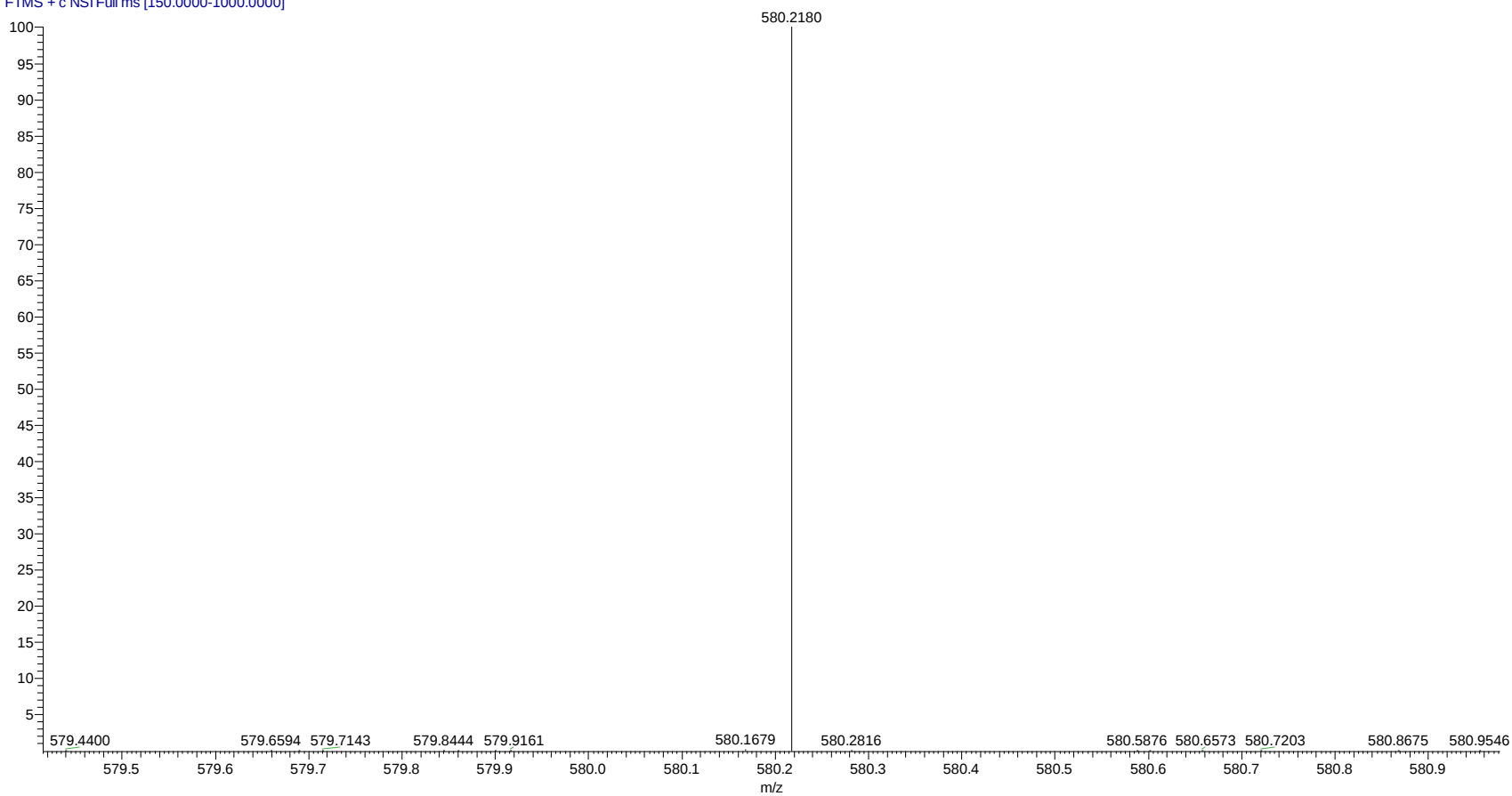
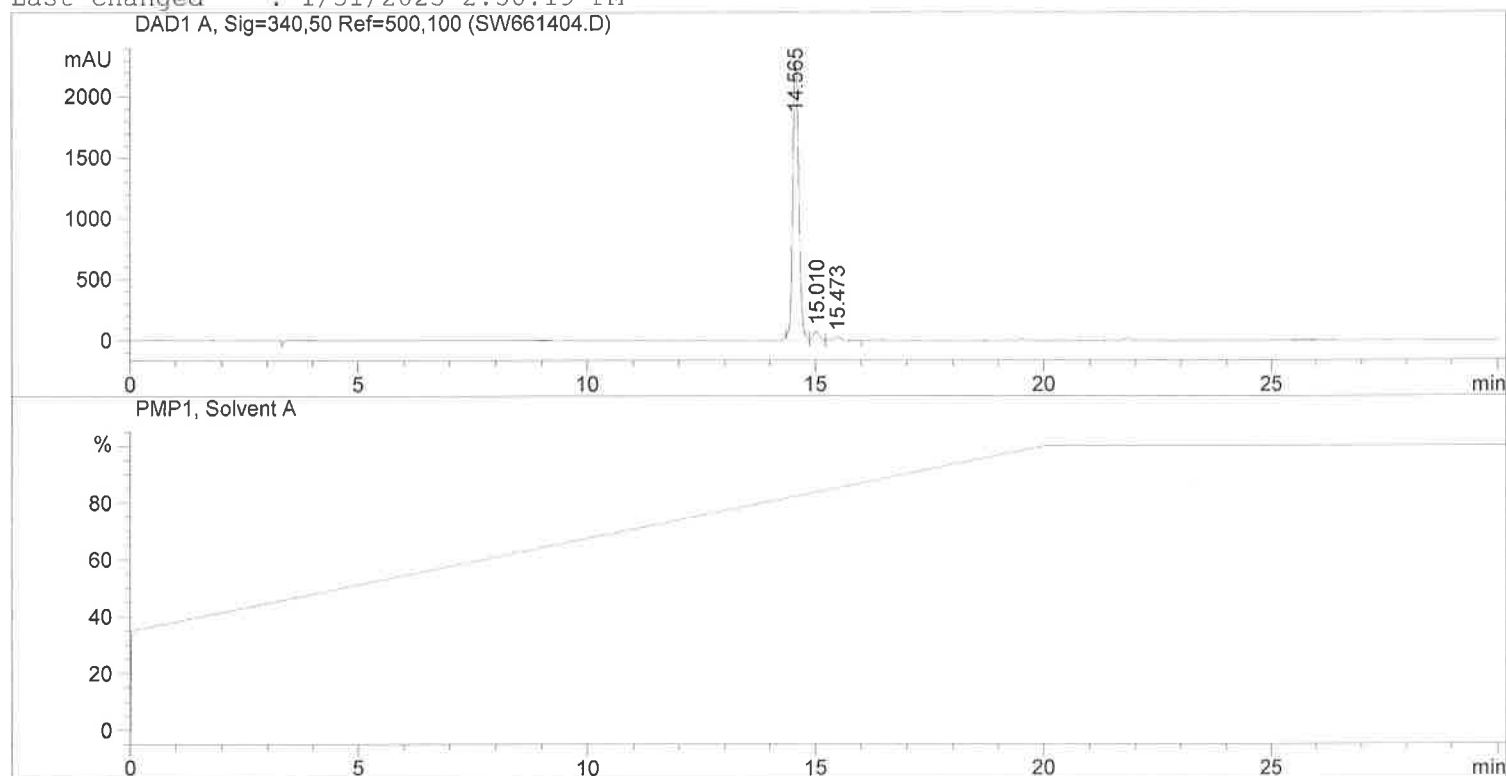


Figure S103: High resolution mass spectrum of **35**

Injection Date : 2/6/2023 3:19:26 PM
Sample Name : SW-66-140-04 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 1/31/2023 2:50:19 PM



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.565	BV	0.1440	2.09682e4	2264.71973	95.4822
2	15.010	VV	0.1339	667.68225	76.45083	3.0404
3	15.473	VP	0.1675	324.44379	27.94491	1.4774

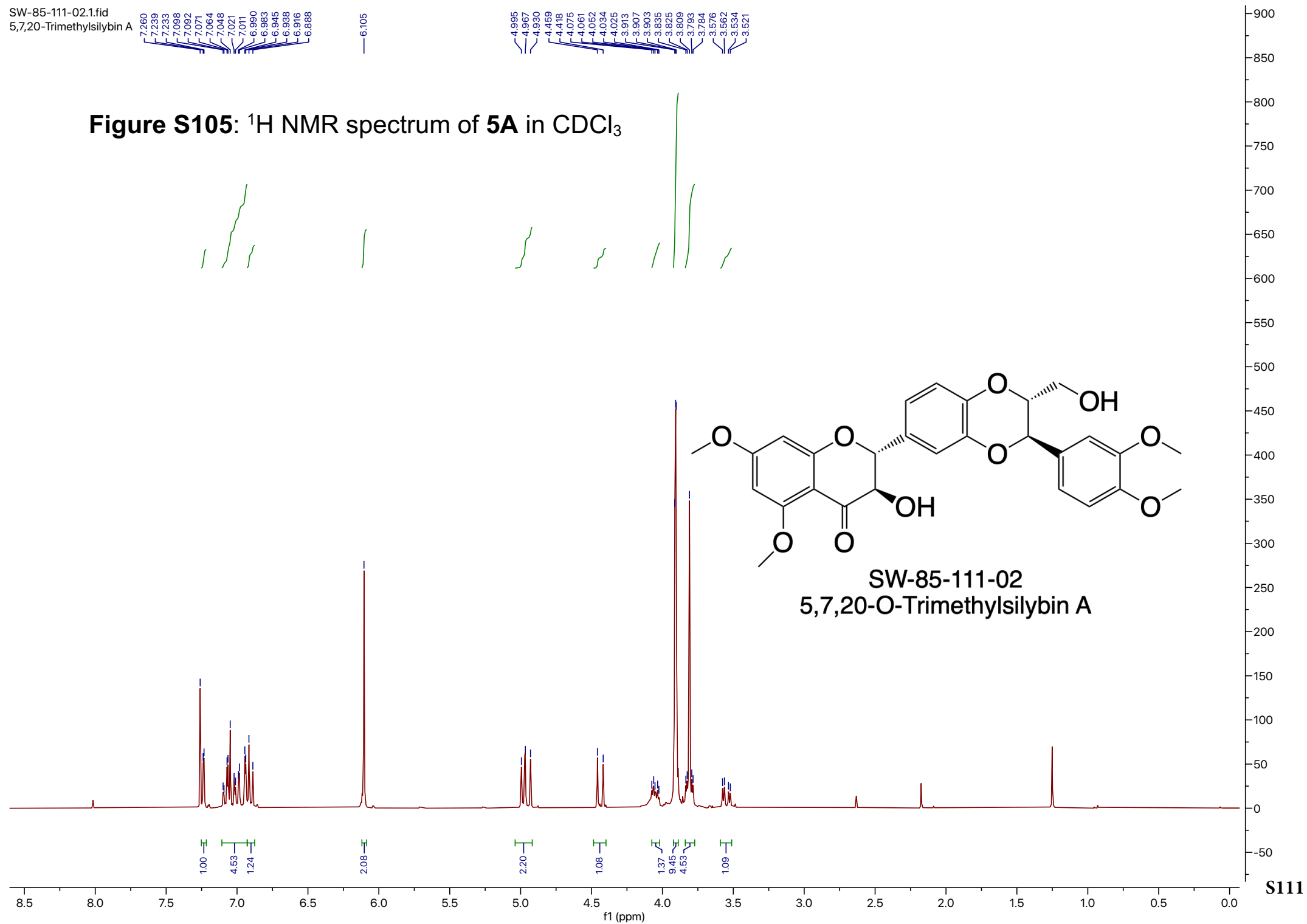
Totals : 2.19603e4 2369.11546

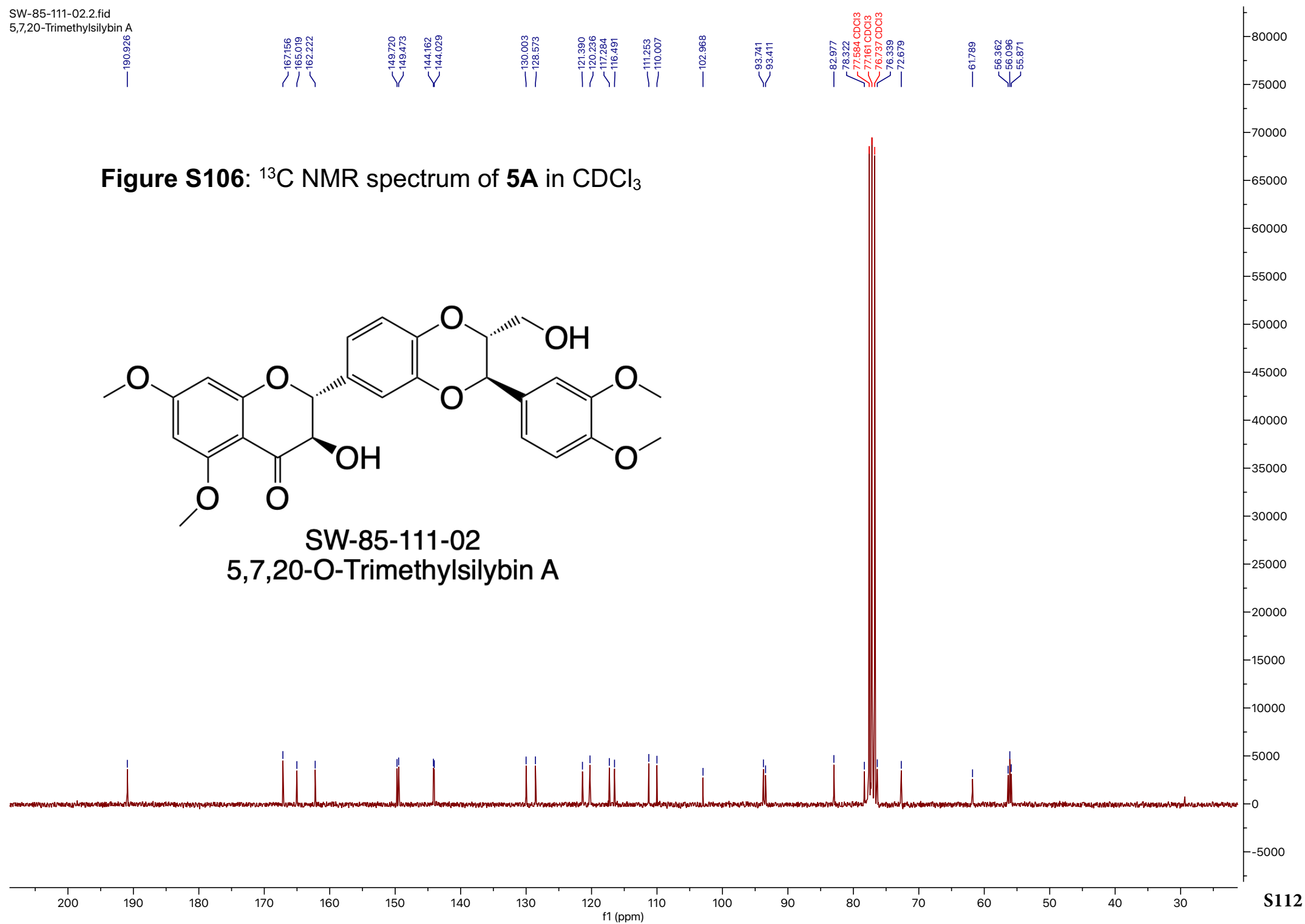
Results obtained with enhanced integrator!

*** End of Report ***

Figure S104: HPLC chromatogram of 35

S110





Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-111-02	C ₂₈ H ₂₈ O ₁₀	524.1683	525.1761	525.1761	0.0000	0.00

SW-85-111-02 #1669-1758 RT: 9.75-10.23 AV: 90 NL: 9.61E7
T: FTMS + c NSI Full lock ms [200.0000-1200.0000]

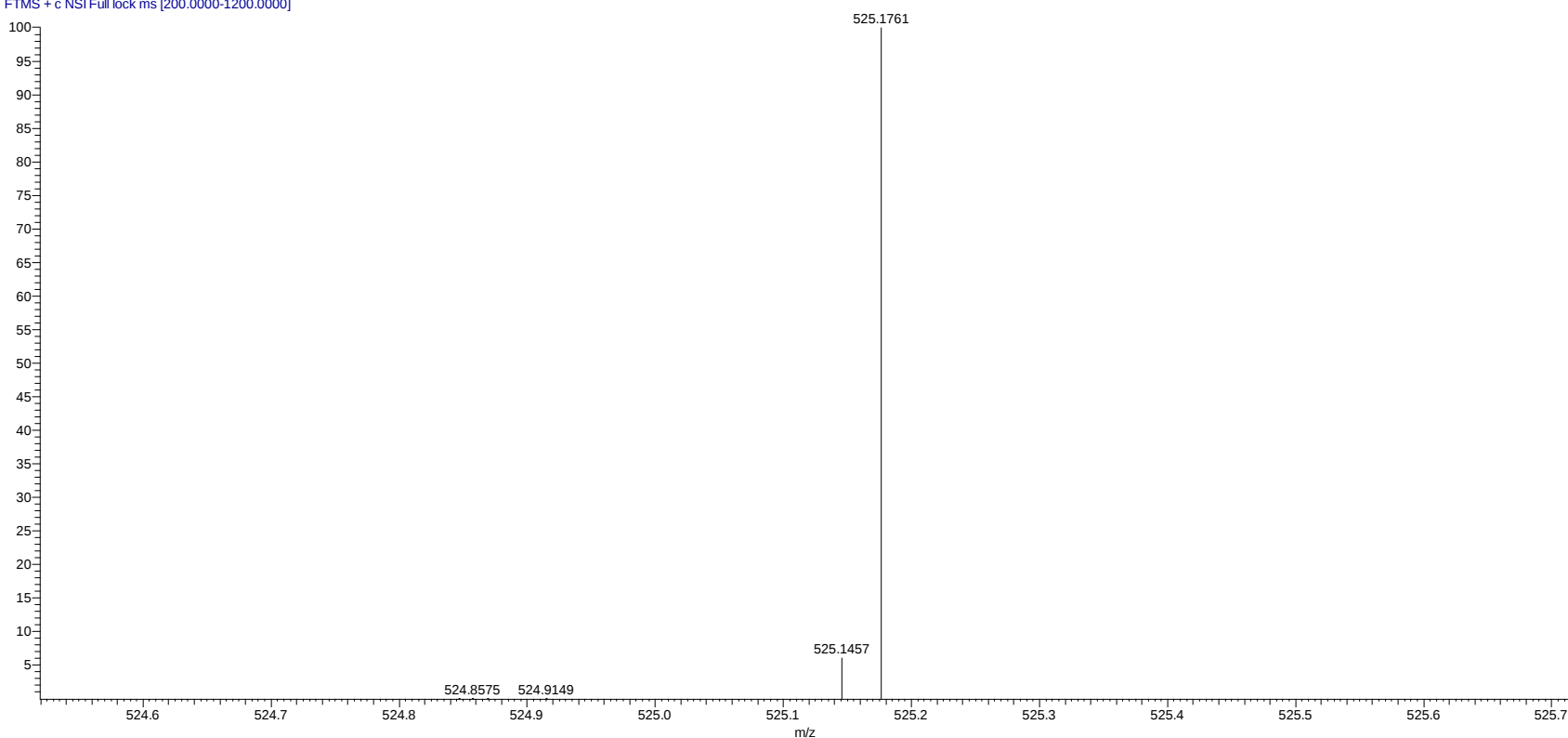
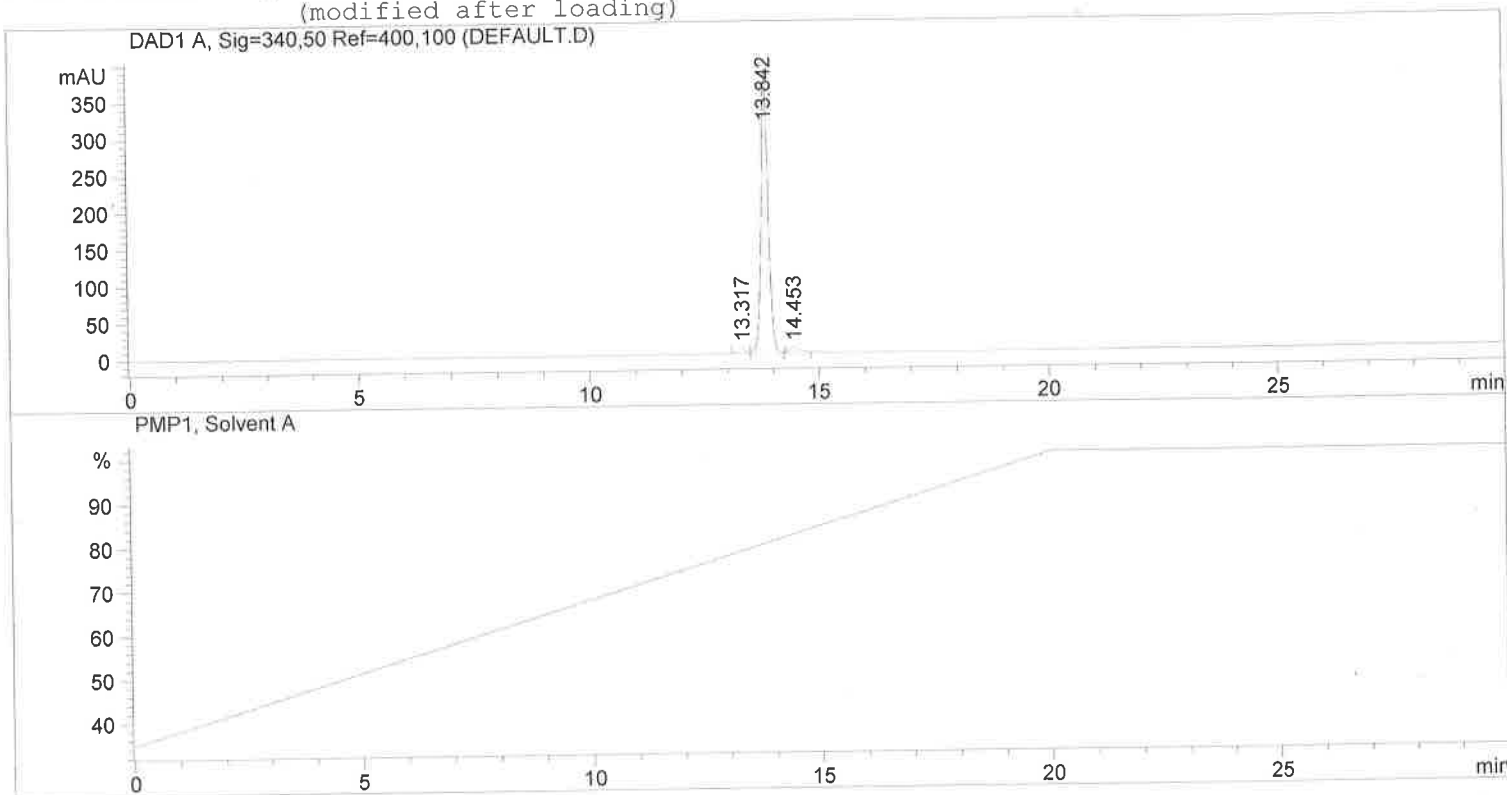


Figure S107: High resolution mass spectrum of **5A**

=====
Injection Date : 4/20/2022 1:56:26 PM
Sample Name : SW-85-126
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/19/2022 12:01:10 PM
(modified after loading)
Location : Vial 1



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.317	BV	0.1537	85.29691	8.31321	1.9459
2	13.842	VB	0.1607	4179.83057	384.95459	95.3551
3	14.453	BB	0.2026	118.30874	8.18441	2.6990

Totals : 4383.43621 401.45221

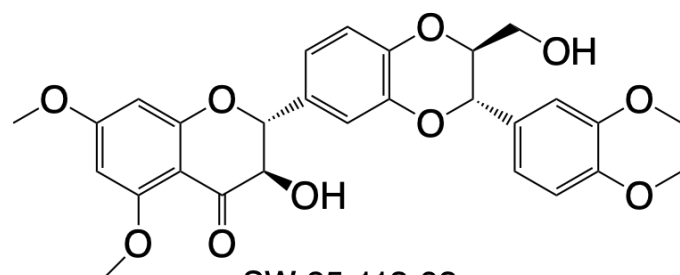
Results obtained with enhanced integrator!

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

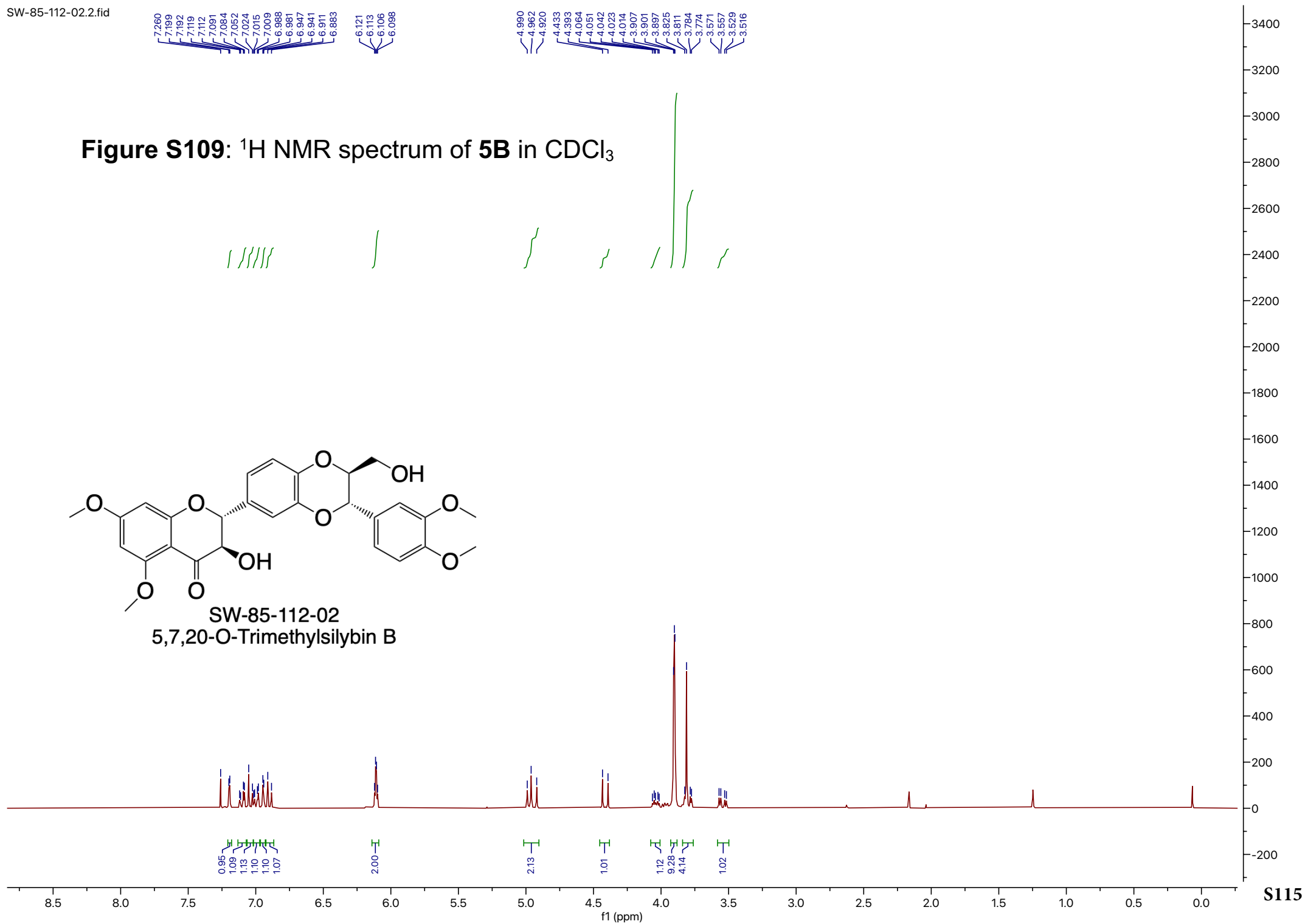
Figure S108: HPLC chromatogram of 5A

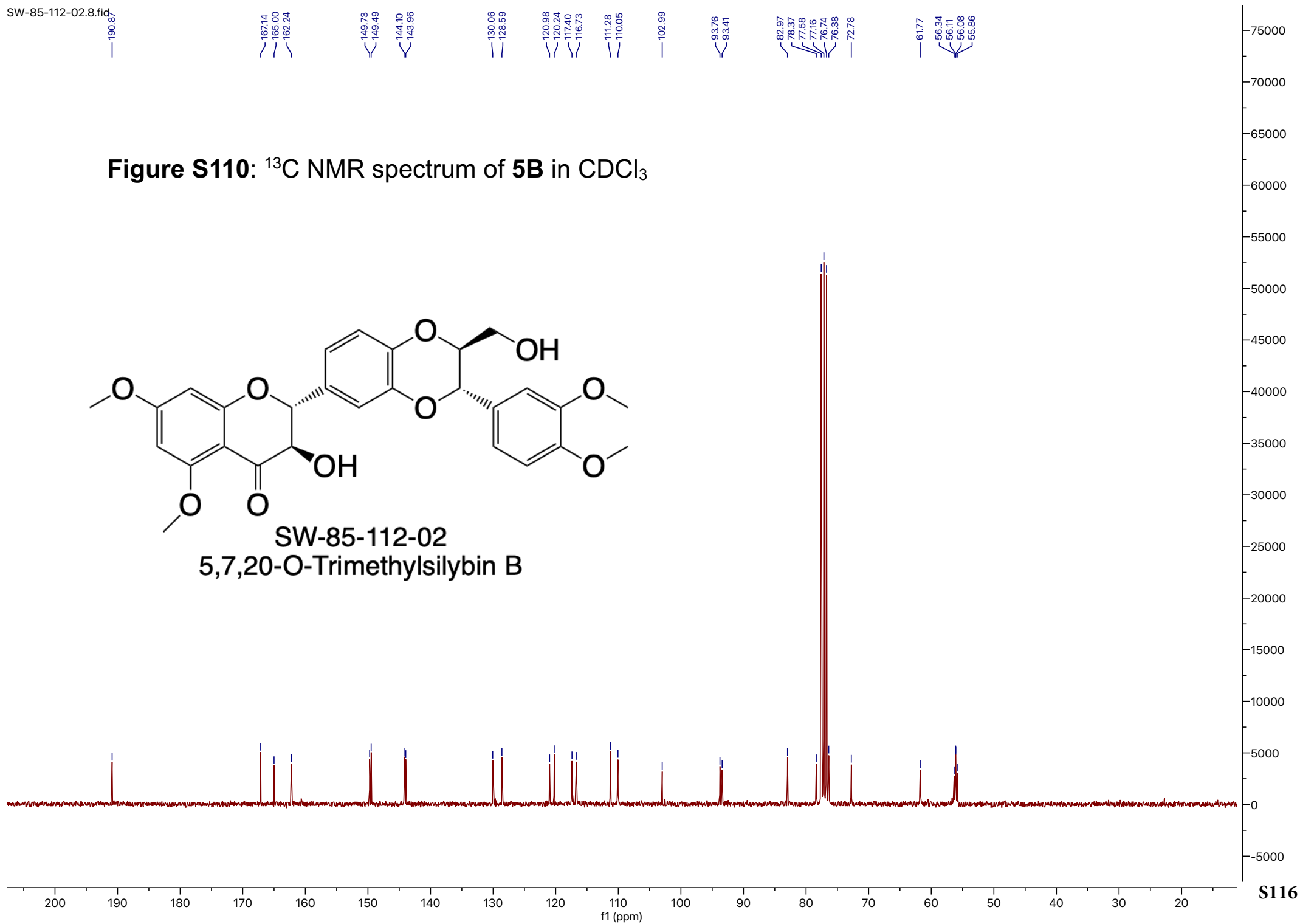
7.260 7.199 7.192 7.119 7.112 7.091 7.084 7.052 7.024 7.015 7.009 6.988 6.981 6.947 6.911 6.883 6.121 6.113 6.106 6.098 4.990 4.962 4.920 4.433 4.393 4.064 4.051 4.042 4.023 4.014 3.907 3.901 3.897 3.825 3.811 3.784 3.774 3.571 3.557 3.529 3.516

Figure S109: ^1H NMR spectrum of **5B** in CDCl_3



SW-85-112-02
5,7,20-O-Trimethylsilybin B





Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-112-02	C ₂₈ H ₂₈ O ₁₀	524.1683	525.1761	525.1763	0.0002	0.38

sw-85-112-02 #1741-1804 RT: 9.54-9.88 AV: 64 NL: 1.74E8
T: FTMS + c NSI Full lock ms [200.0000-1200.0000]

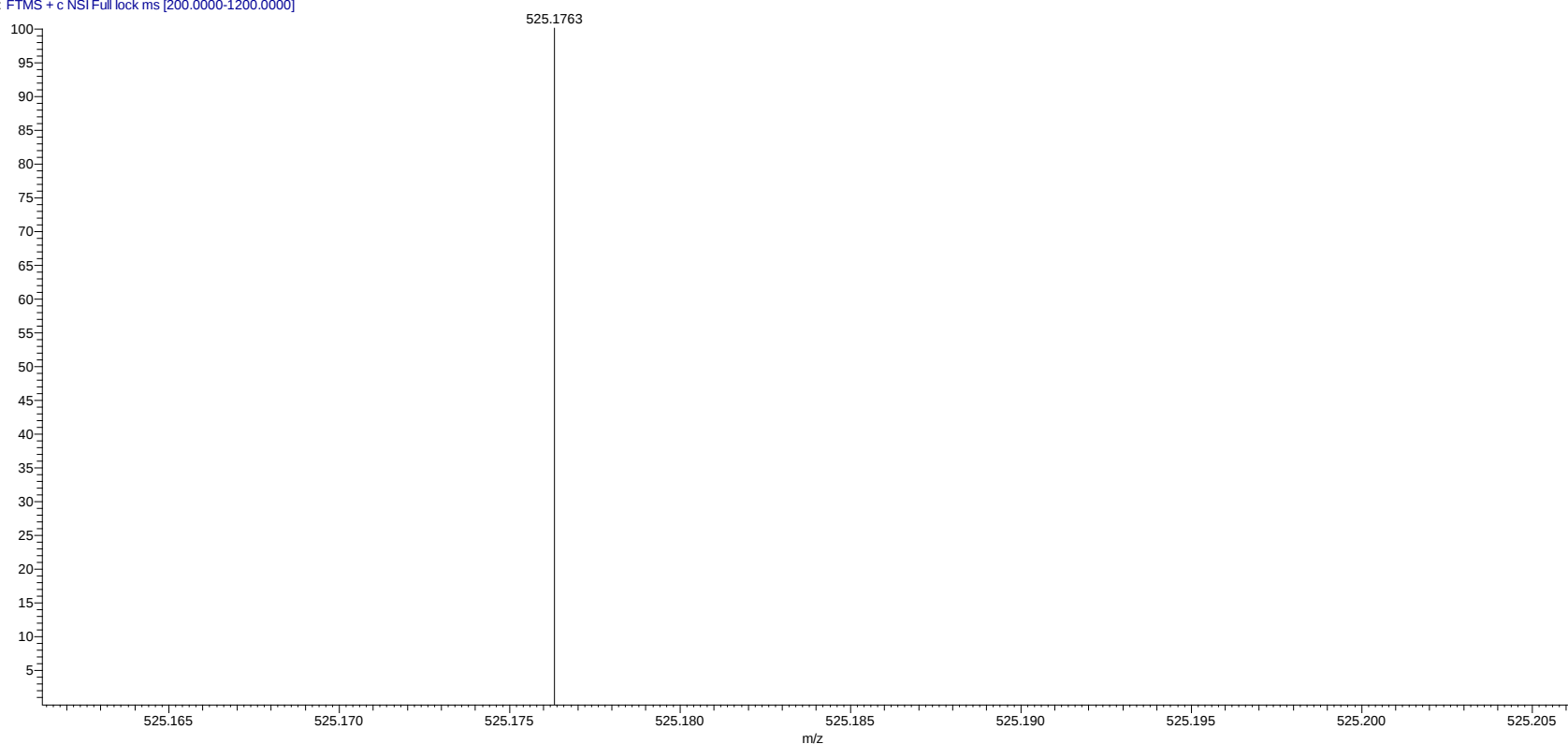
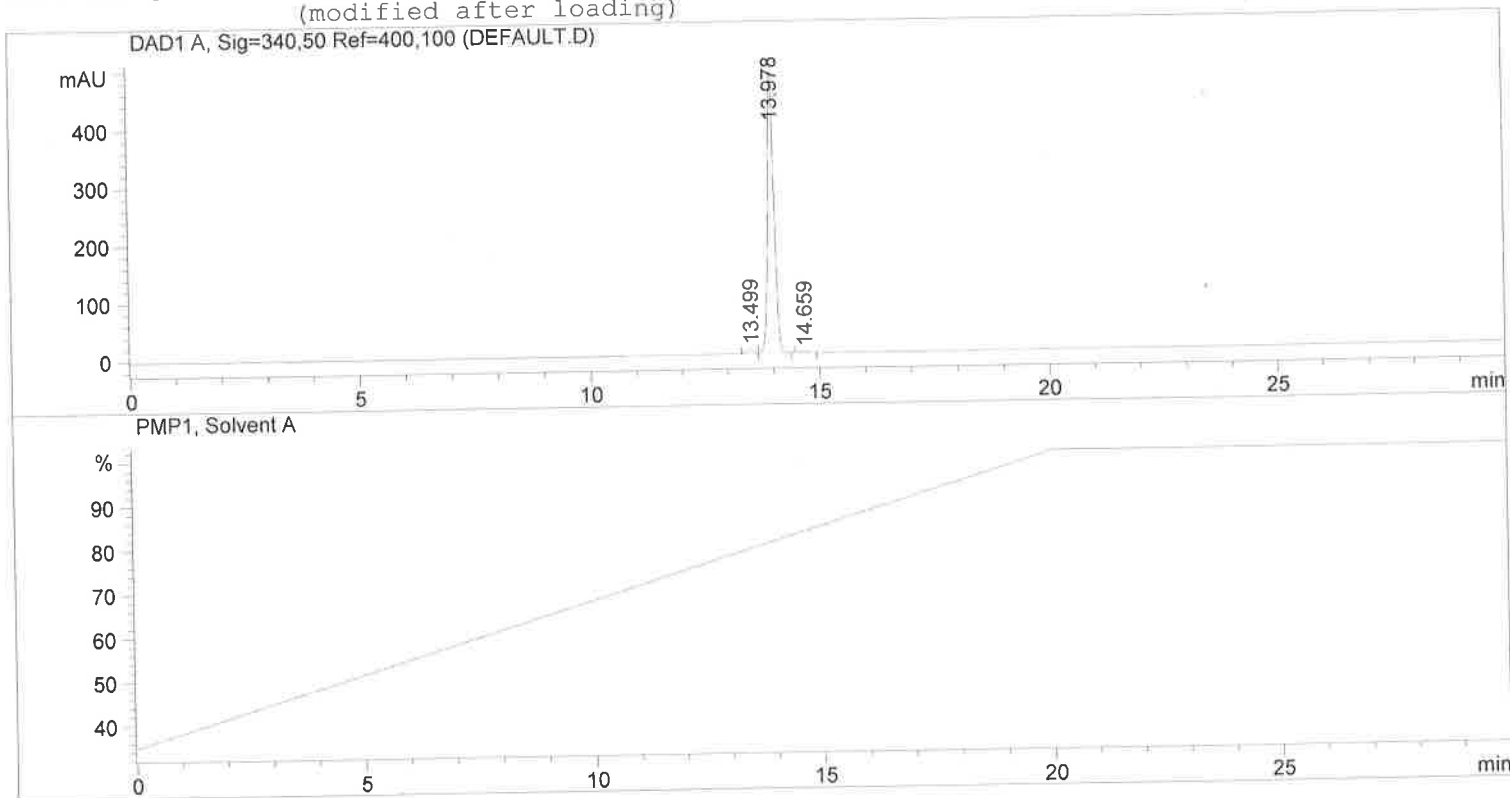


Figure S111: High resolution mass spectrum of **5B**

Injection Date : 4/20/2022 1:09:49 PM
Sample Name : SW-85-112-02 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/19/2022 12:01:10 PM
(modified after loading)



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

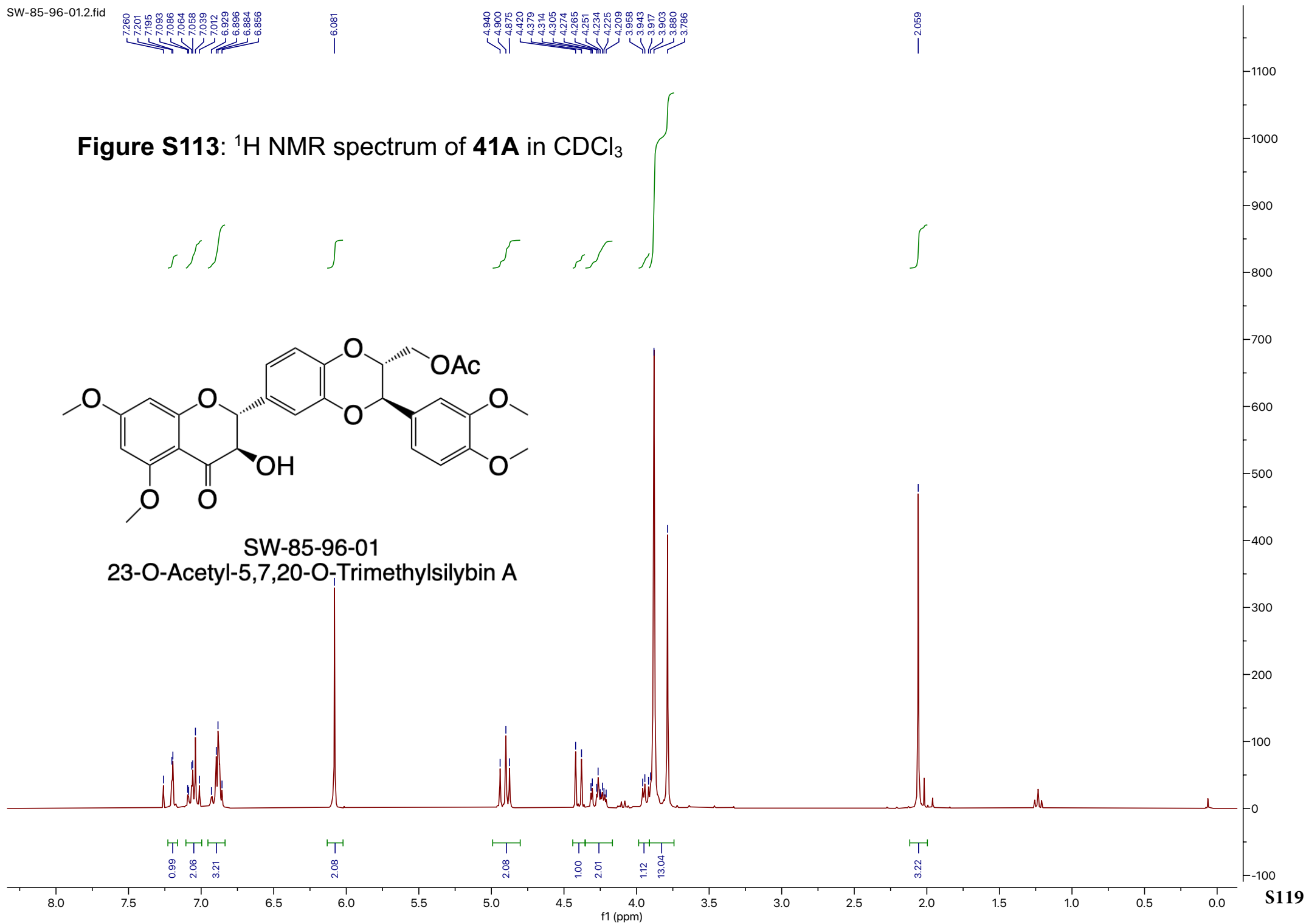
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.499	BV	0.1390	74.58830	8.13352	1.5132
2	13.978	VB	0.1488	4824.36230	490.18085	97.8718
3	14.659	BB	0.1732	30.31663	2.65632	0.6150

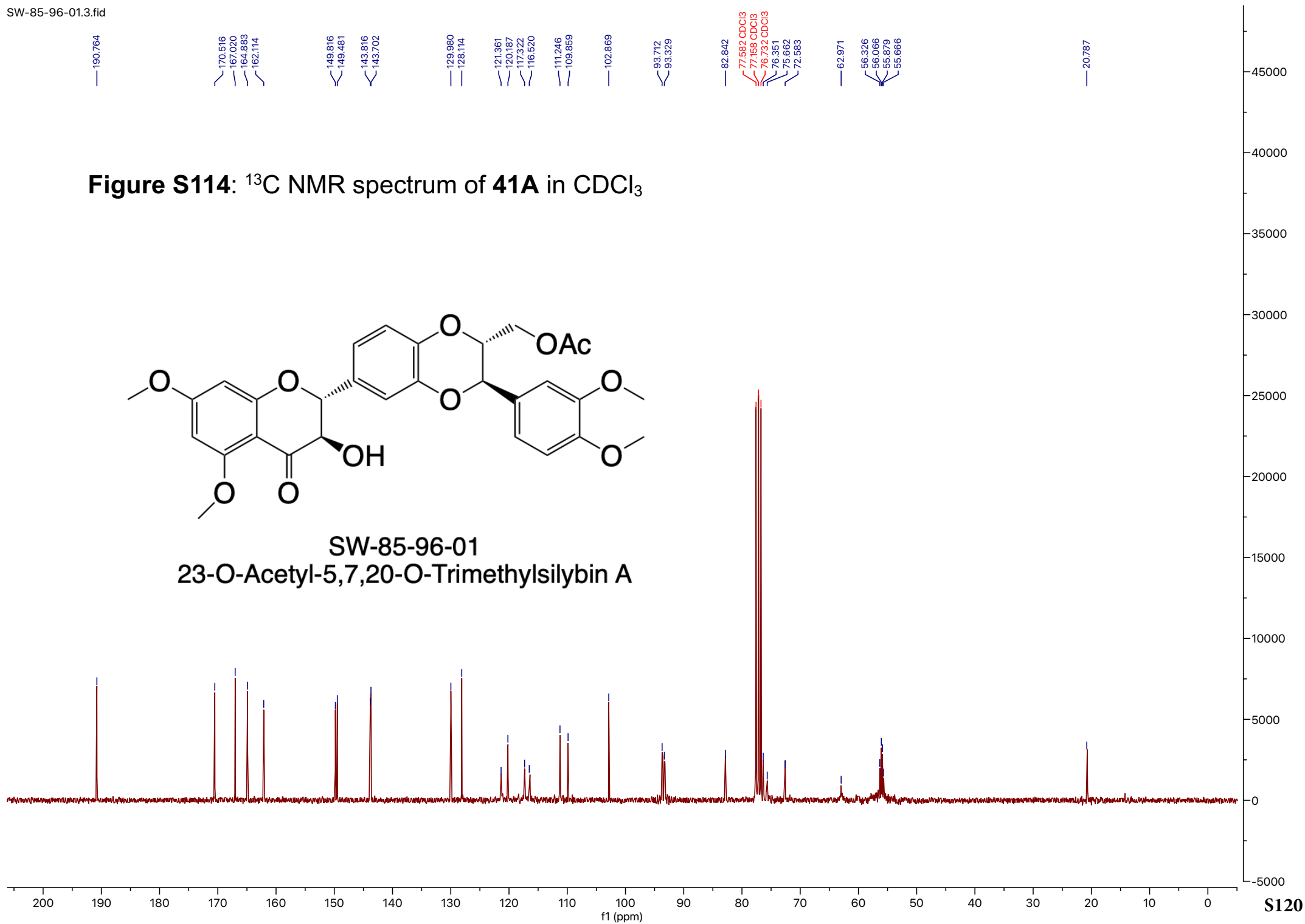
Totals : 4929.26724 500.97069

Results obtained with enhanced integrator!

*** End of Report ***

Figures S112: HPLC chromatogram of 5B





Sample Name	Mol Formula	MW	M+H	observed	delta	ppm
SW-85-96-01	C30H30O11	566.1789	567.1867	567.1869	0.0002	0.41

SW-85-96-01 #1847-1927 RT: 10.70-11.13 AV: 81 NL: 8.69E7
T: FTMS + c NSI Full ms [200.0000-1200.0000]

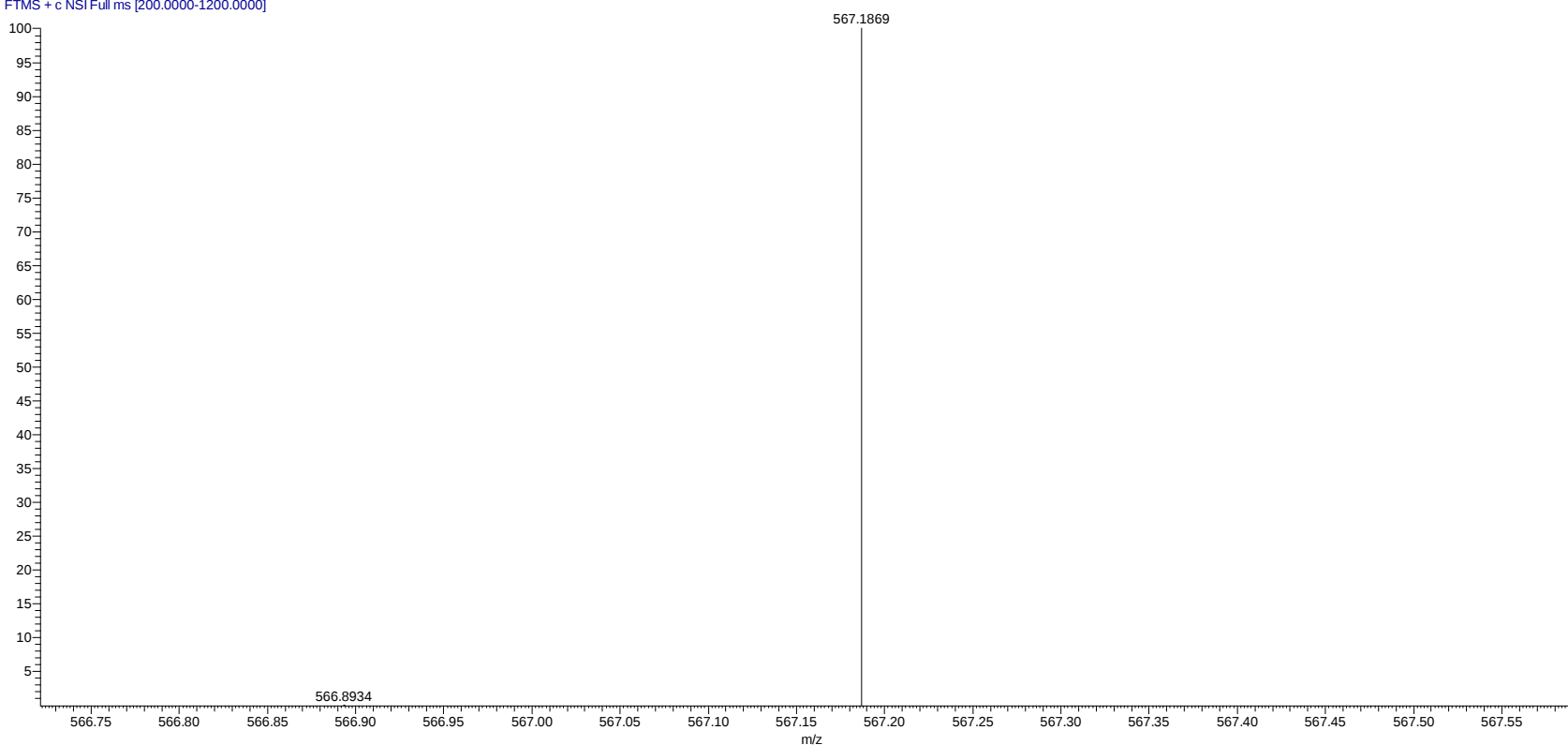
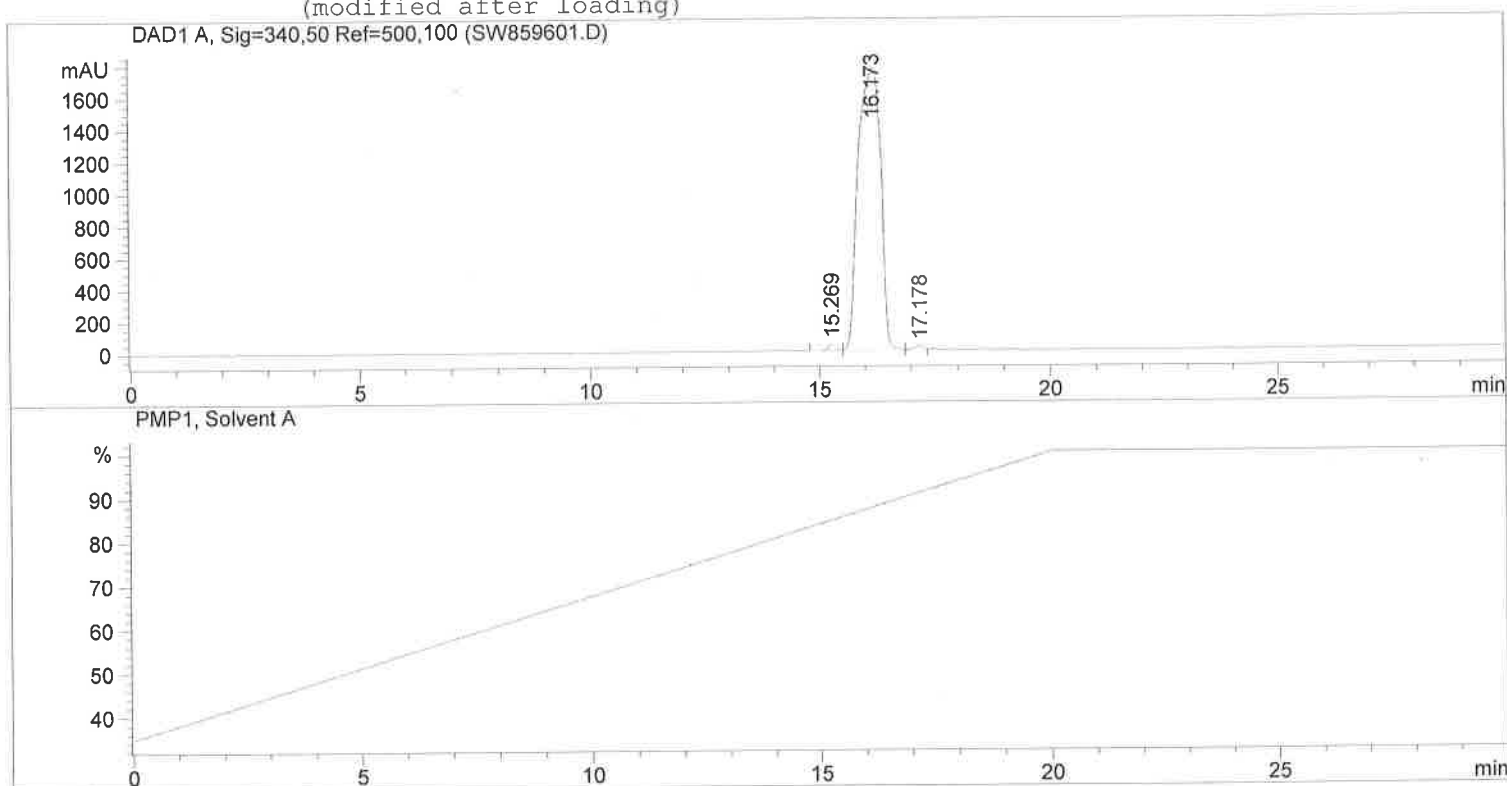


Figure S115: High resolution mass spectrum of **41A**

=====
Injection Date : 5/1/2022 2:04:23 PM
Sample Name : SW-85-96-01 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/30/2022 3:37:52 PM
(modified after loading)



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

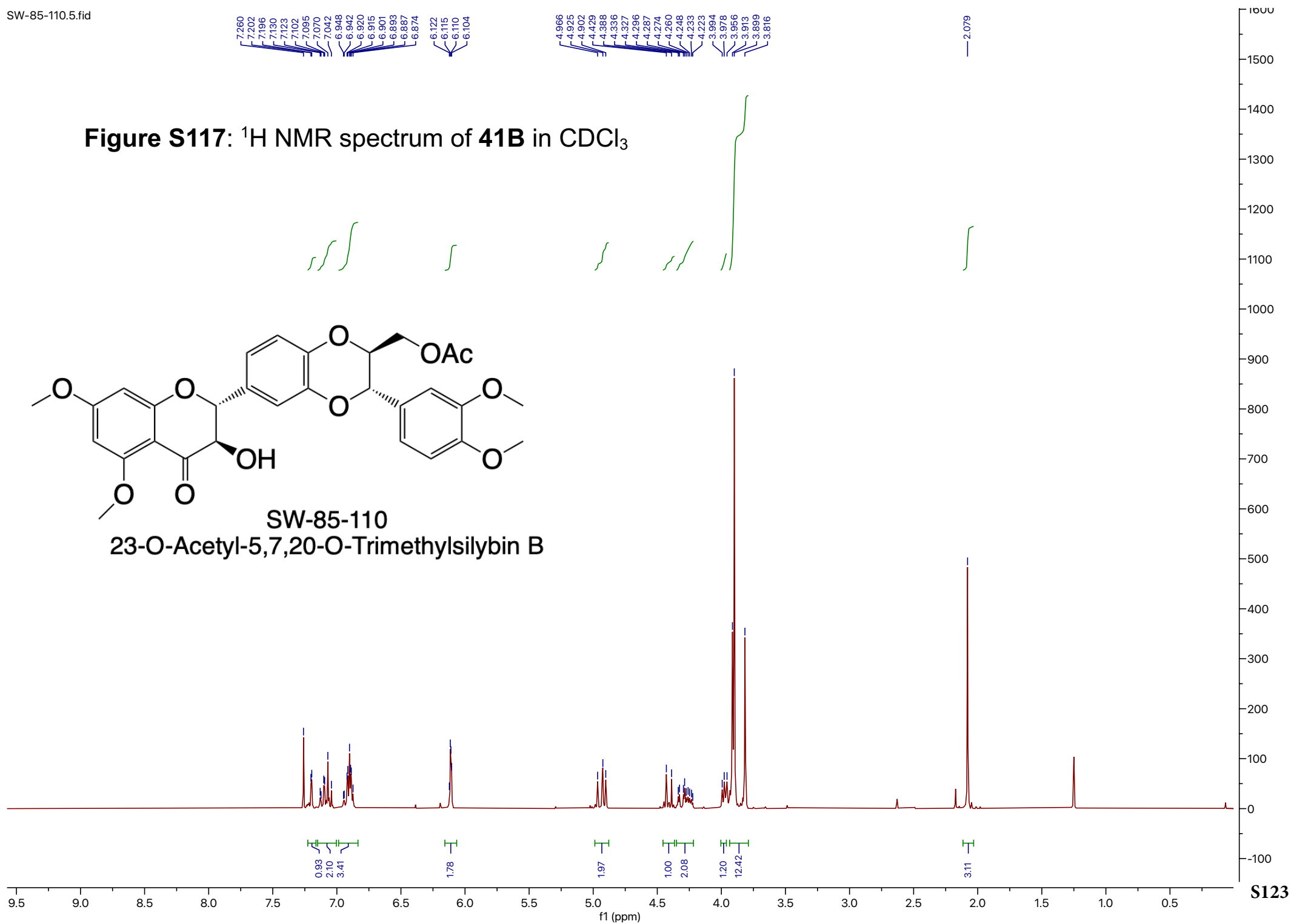
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.269	PV	0.1803	491.90530	40.90677	0.8050
2	16.173	VV	0.5799	6.01970e4	1773.94360	98.5084
3	17.178	VV	0.2139	419.57355	28.81751	0.6866

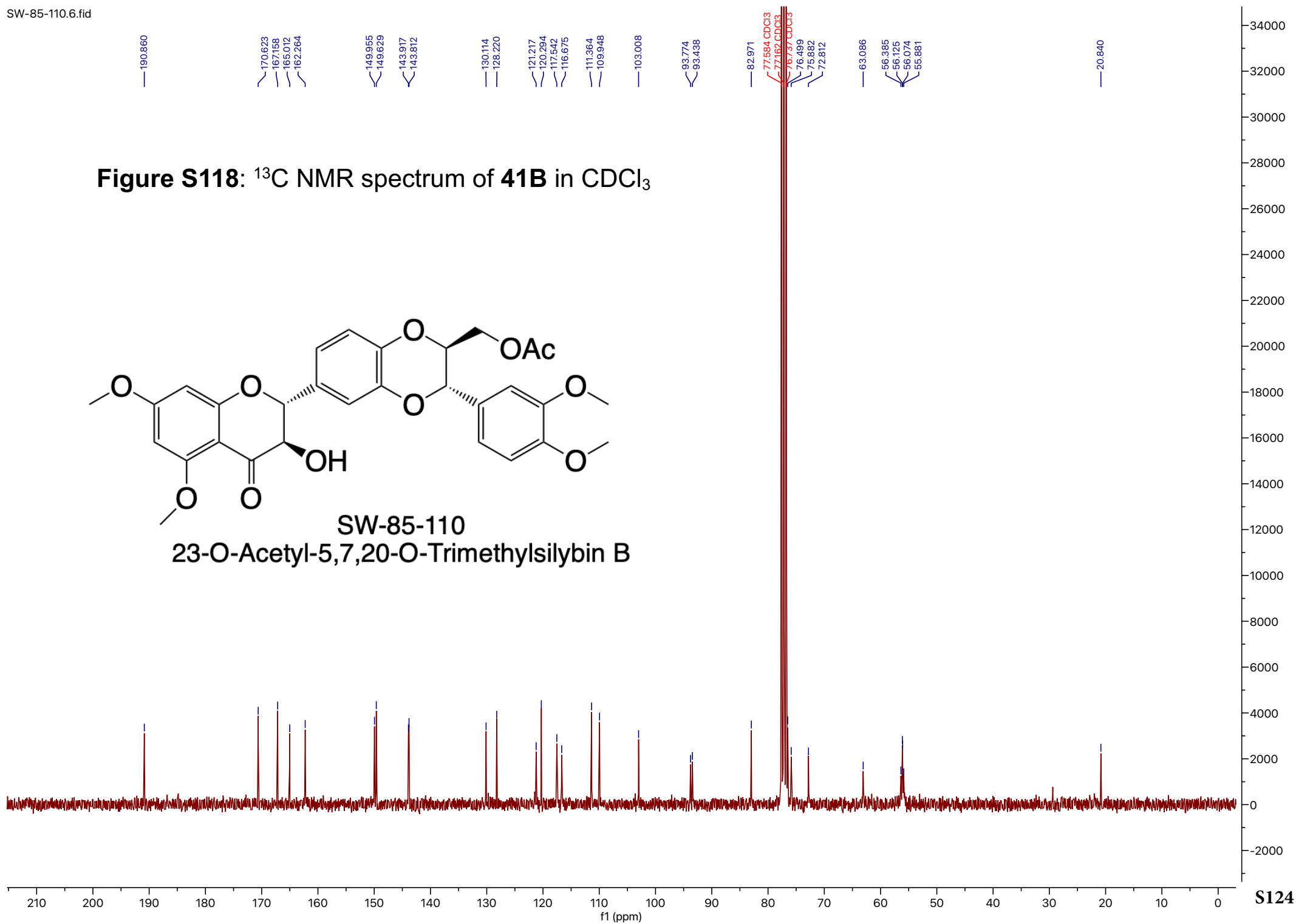
Totals : 6.11085e4 1843.66789

Results obtained with enhanced integrator!

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

Figure S116: HPLC chromatogram of 41A





Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-110	C30H30O11	566.1789	567.1867	567.1871	0.0004	0.76

SW-85-110 #1613-1682 RT: 9.57-9.93 AV: 70 NL: 2.47E8
T: FTMS + c NSI Full lock ms [200.0000-1200.0000]

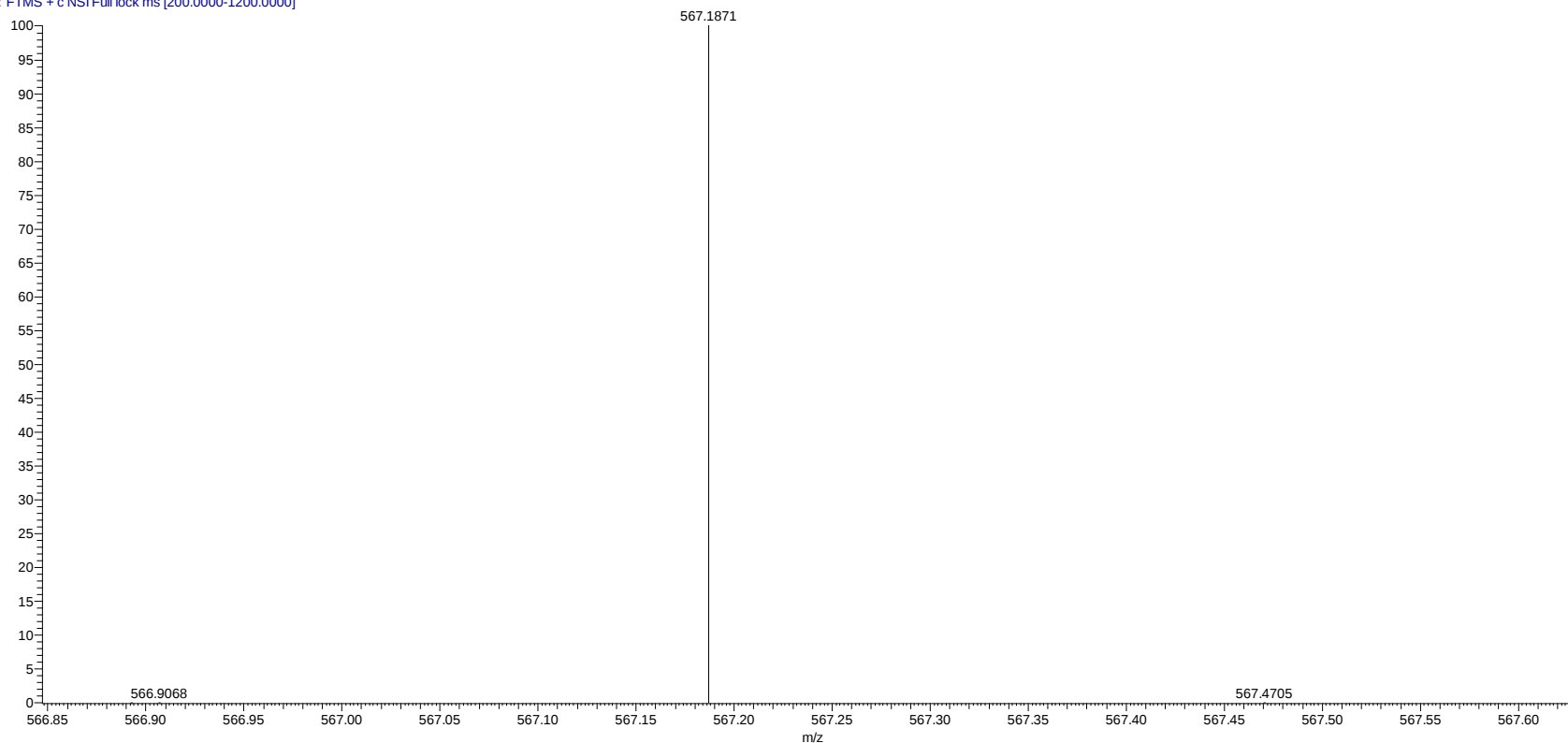
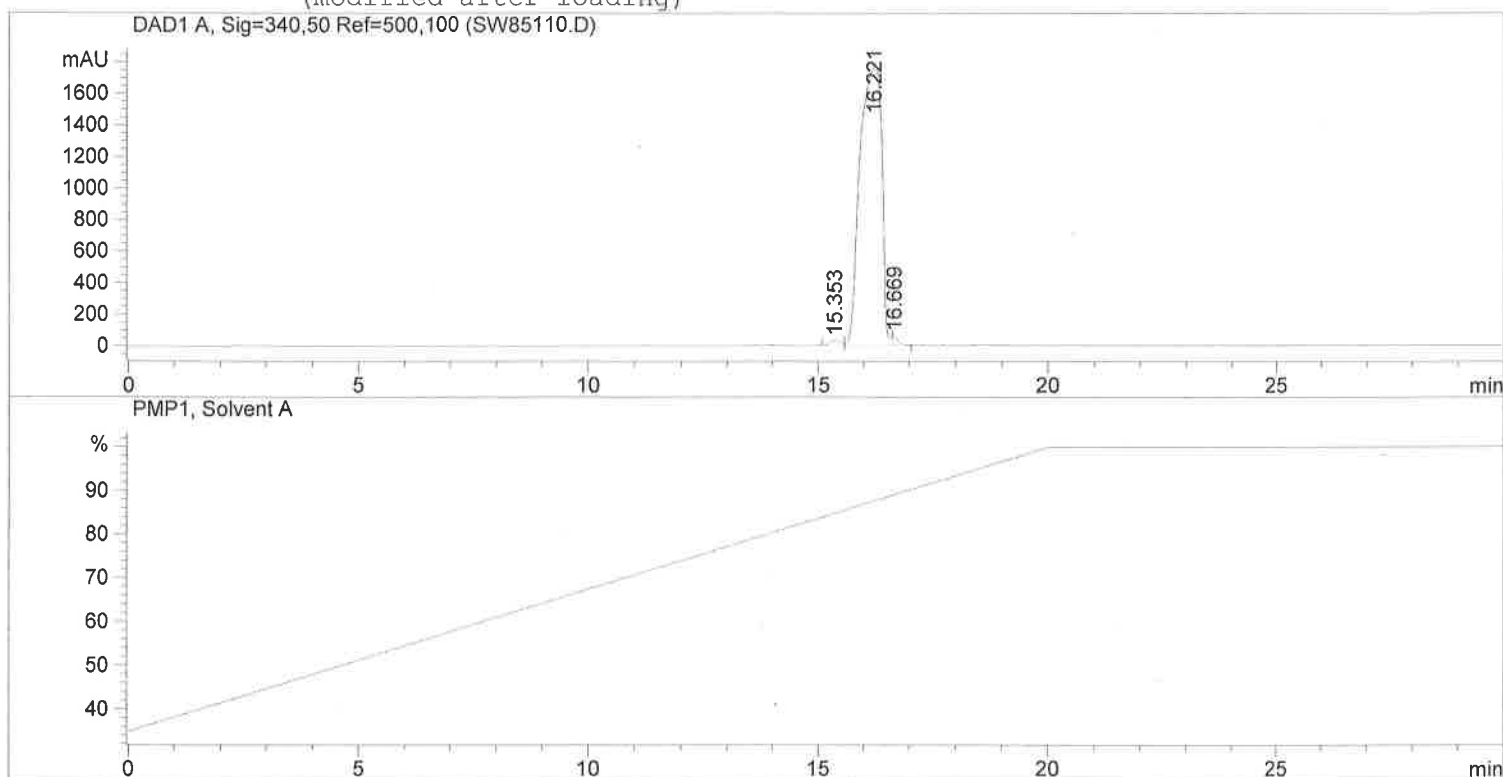


Figure S119: High resolution mass spectrum of **41B**

=====

Injection Date : 5/1/2022 2:57:07 PM
Sample Name : SW-85-110 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/30/2022 3:37:52 PM
(modified after loading)



=====

Area Percent Report

=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.353	VV	0.2655	538.65302	31.18570	0.9020
2	16.221	VV	0.5660	5.86821e4	1792.36096	98.2707
3	16.669	VV	0.1432	494.01041	51.81585	0.8273

Totals : 5.97147e4 1875.36251

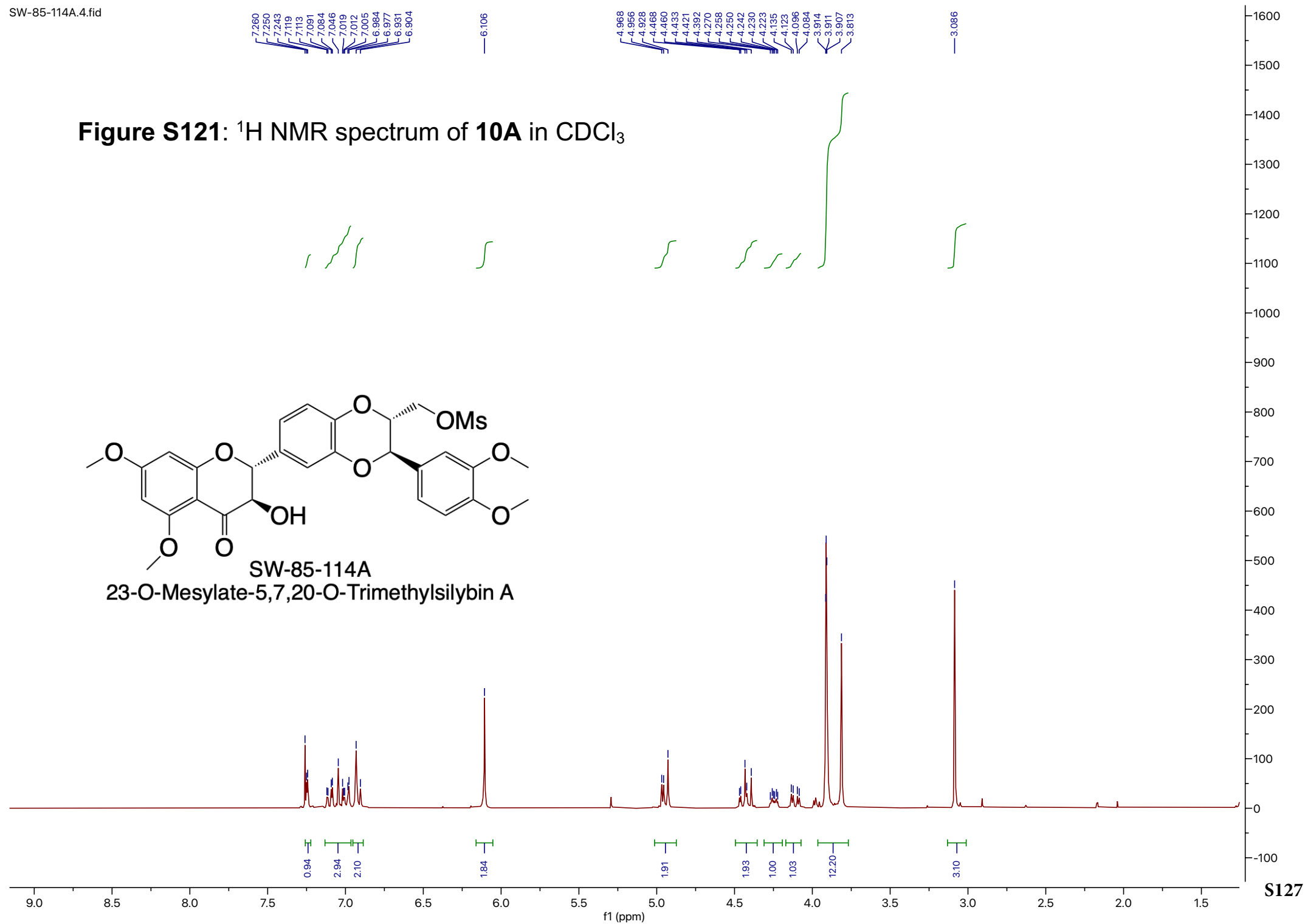
Results obtained with enhanced integrator!

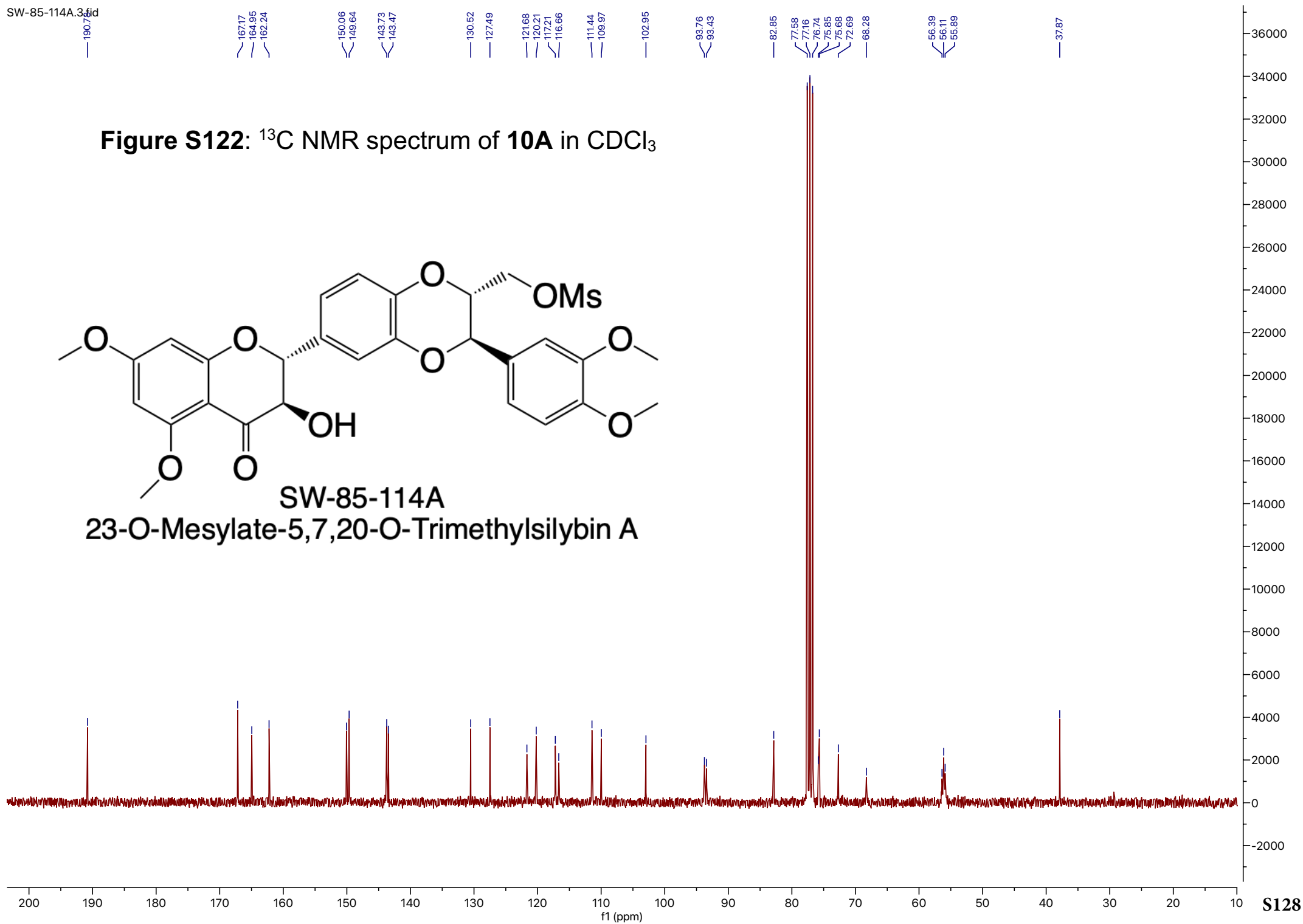
=====

*** End of Report ***

Figure S120: HPLC chromatogram of 41B

S126





Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-114A	C ₂₉ H ₃₀ O ₁₂ S	602.1459	603.1537	603.1534	-0.0003	-0.43

SW-85-114A #2259-2320 RT: 12.08-12.40 AV: 62 NL: 9.95E7
T: FTMS + c NSI Full ms [120.0000-750.0000]

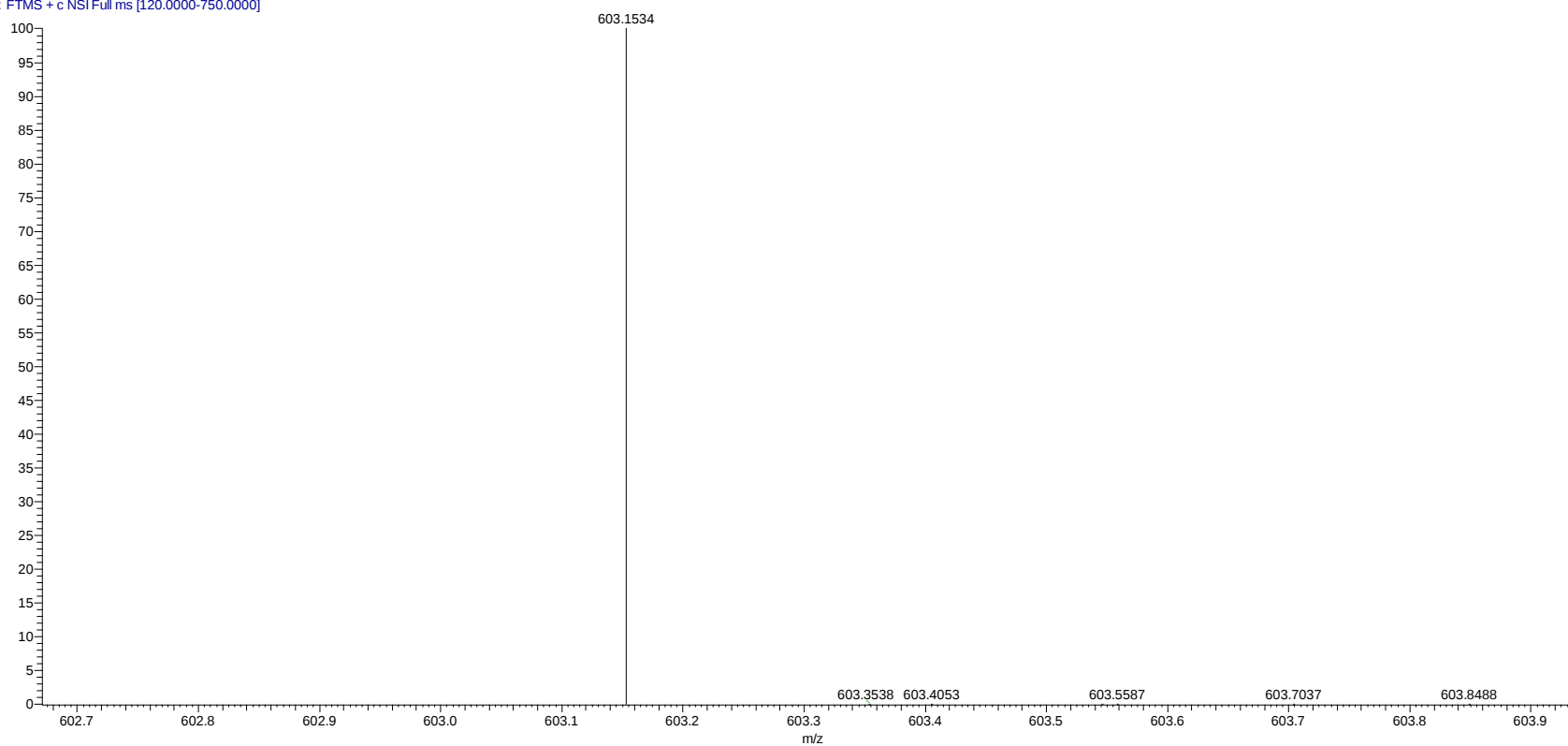
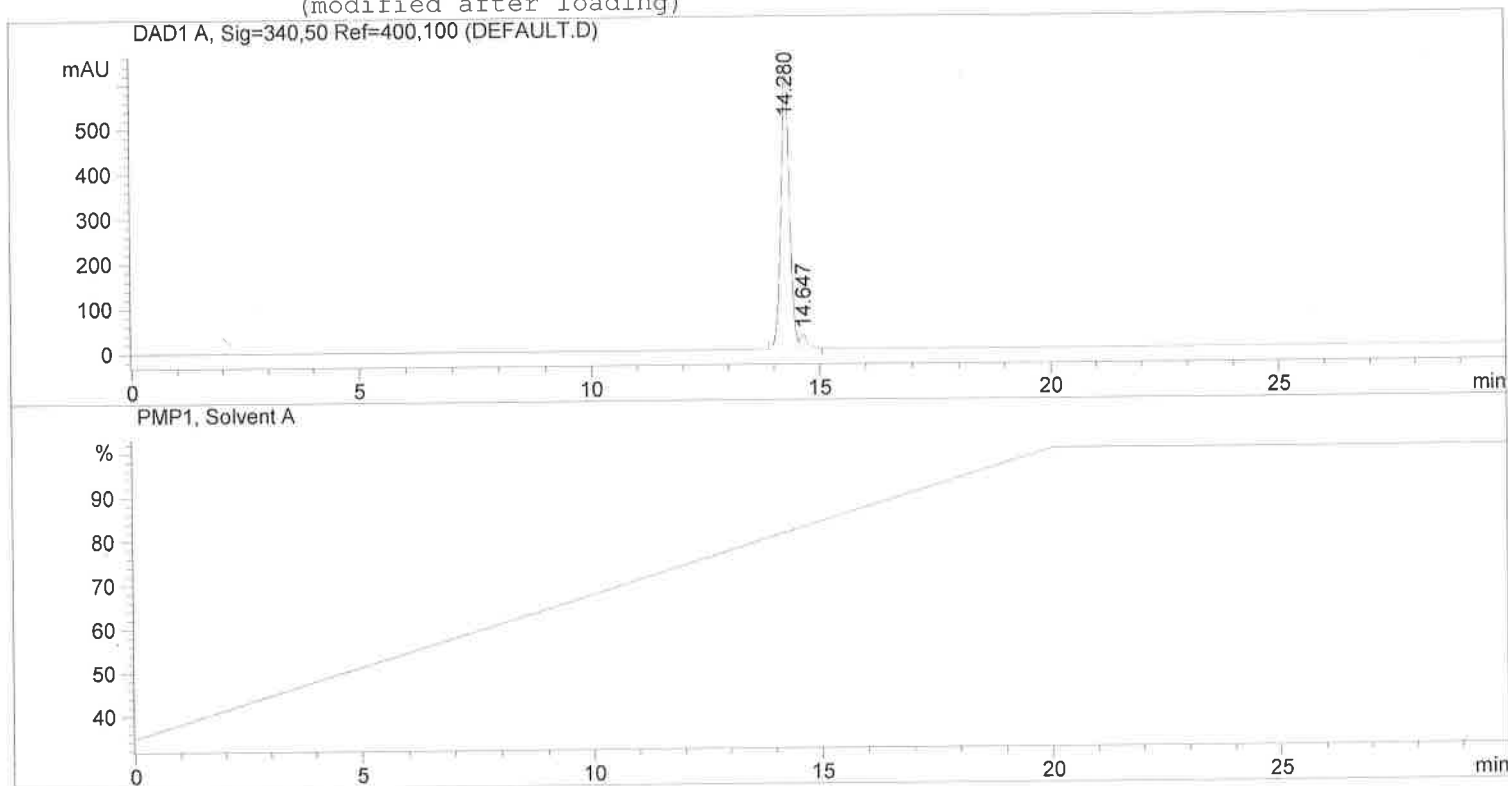


Figure S123: High resolution mass spectrum of **10A**

=====
Injection Date : 4/20/2022 5:04:17 PM
Sample Name : SW-85-114A Location : Vial 1
Acq. Operator :
Acq. Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/20/2022 5:00:25 PM
(modified after loading)
Analysis Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/20/2022 5:42:54 PM
(modified after loading)
=====



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.280	VV	0.2142	8131.07080	632.57202	95.2458
2	14.647	VV	0.2041	405.85938	33.14649	4.7542

Totals : 8536.93018 665.71851

Results obtained with enhanced integrator!

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

Figure S124: HPLC chromatogram of 10A

S130

7.260
7.219
7.212
7.151
7.144
7.123
7.116
7.061
7.033
7.017
7.010
6.990
6.982
6.940
6.933
6.906

6.119

4.970
4.960
4.930
4.473
4.465
4.434
4.427
4.422
4.381
4.266
4.258
4.254
4.246
4.239
4.231
4.227
4.219
4.136
4.123
4.097
4.085
3.918
3.915
3.910
3.822

3.091

Figure S125: ^1H NMR spectrum of **10B** in CDCl_3

1.00
1.11
1.10
1.16
2.21

1.90

2.19

2.16

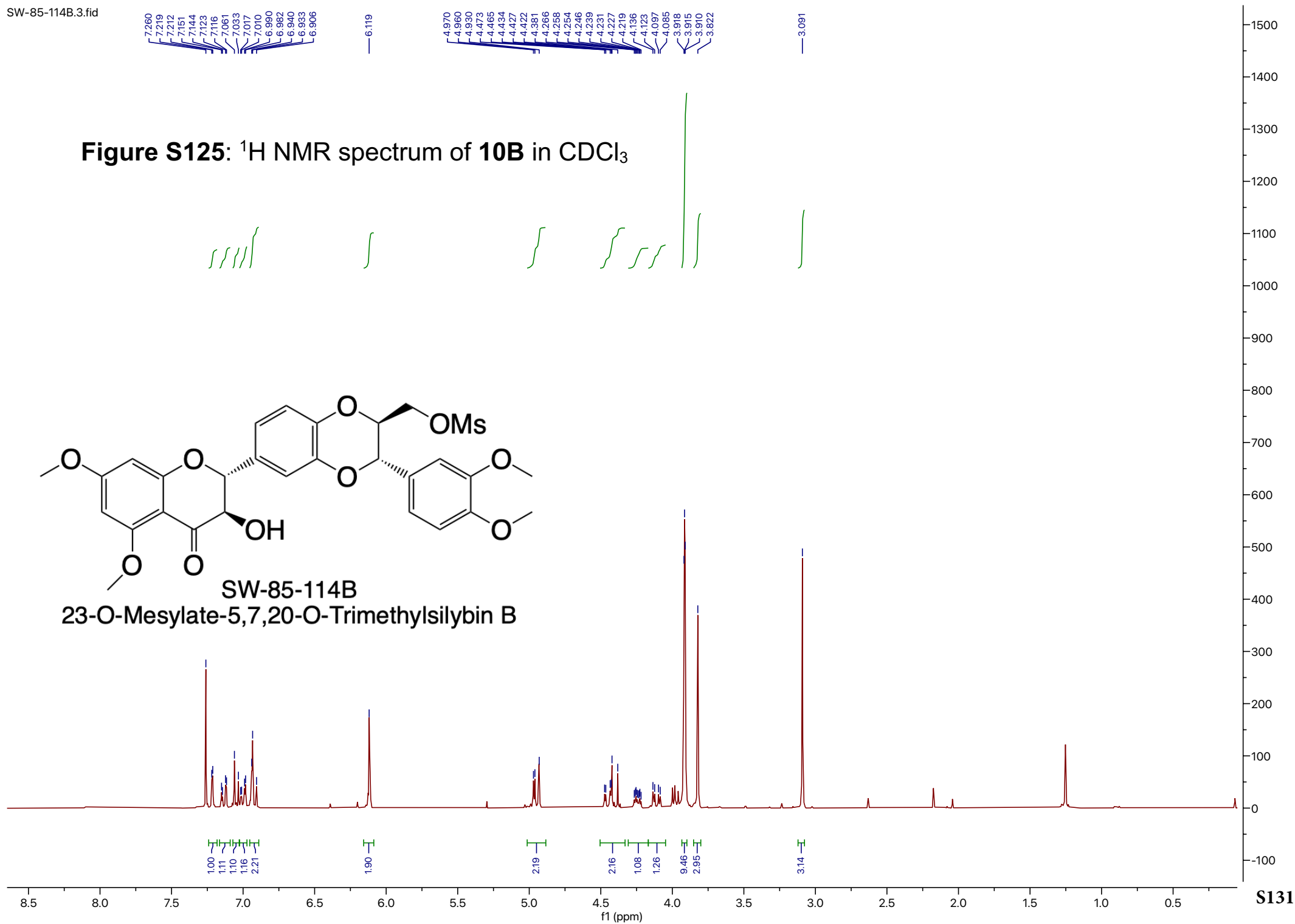
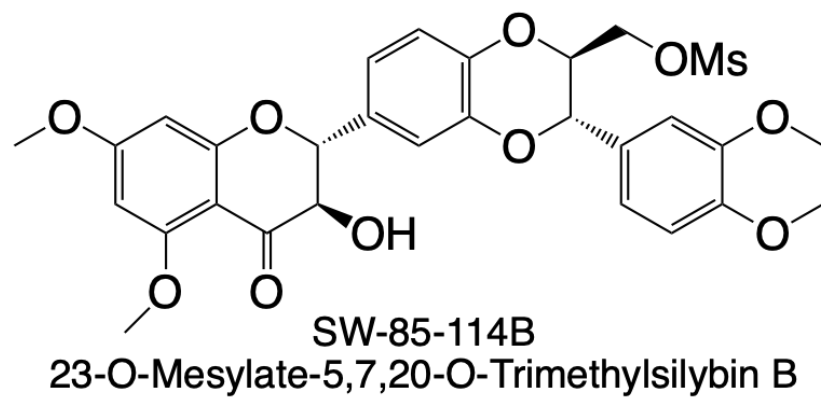
1.08

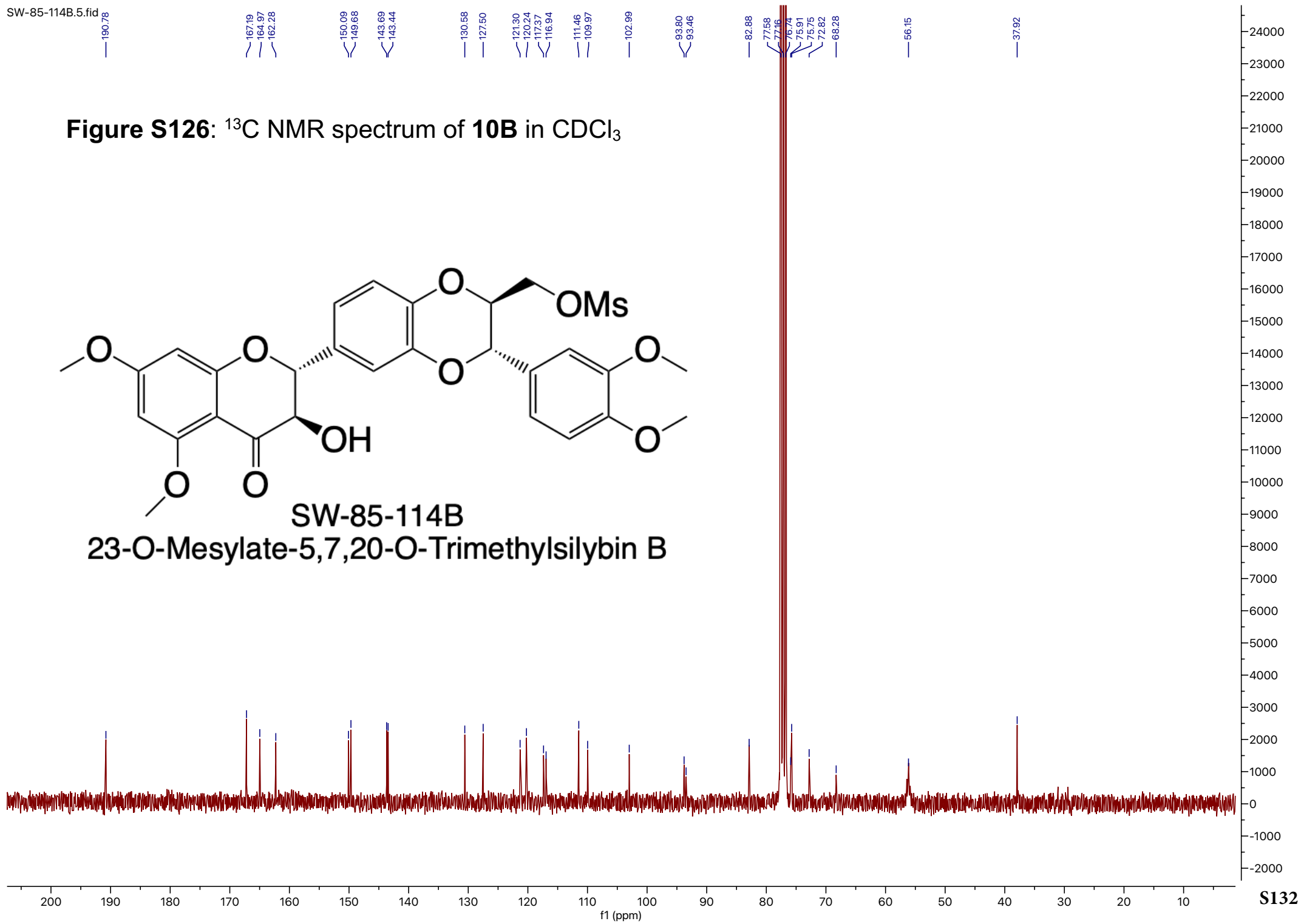
1.26

9.46

2.95

3.14





Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-114B	C ₂₉ H ₃₀ O ₁₂ S	602.1459	603.1537	603.1537	0.0000	0.00

SW-85-114B #1392-3952 RT: 7.69-21.80 AV: 2561 NL: 1.12E7
T: FTMS + c NSI Full ms [120.0000-750.0000]

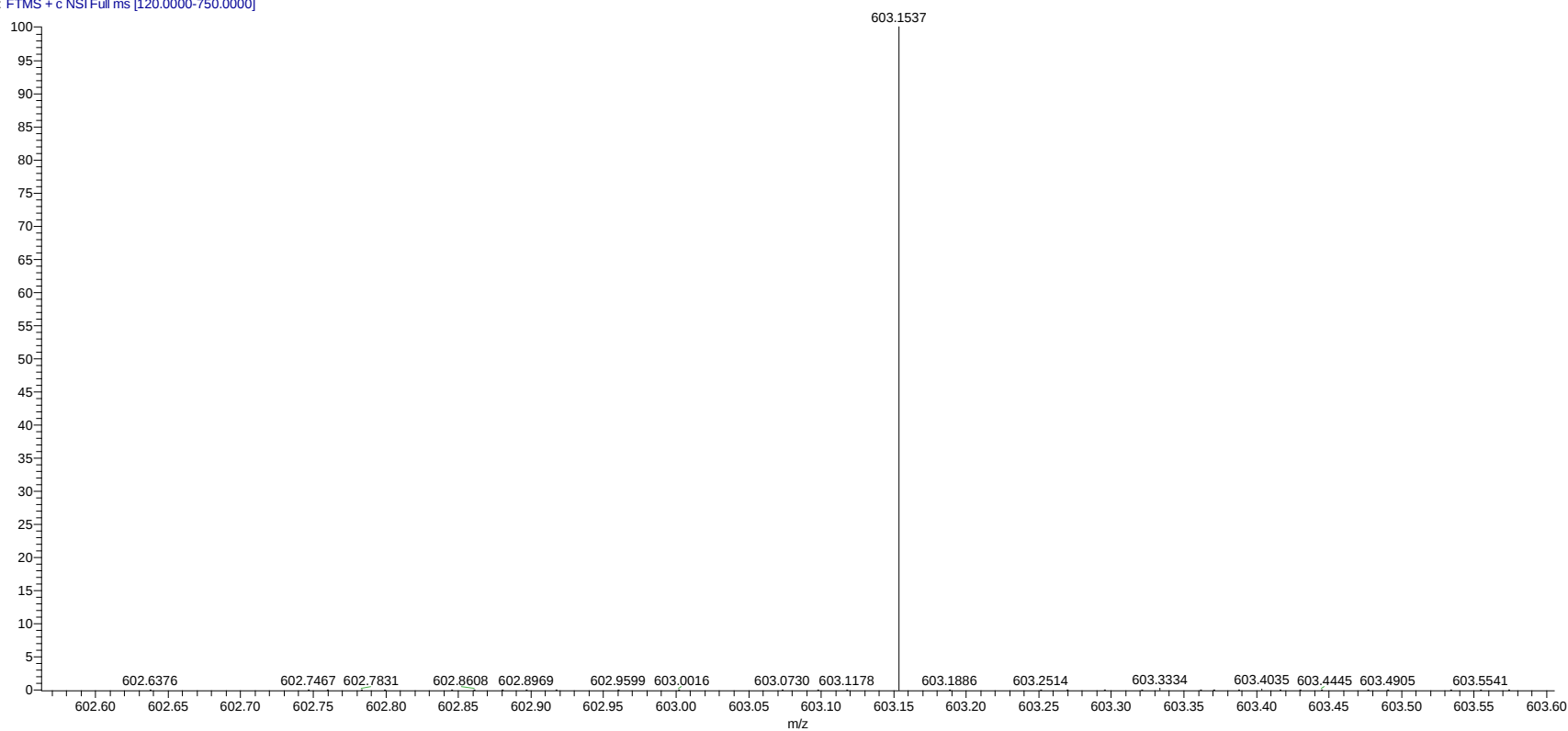
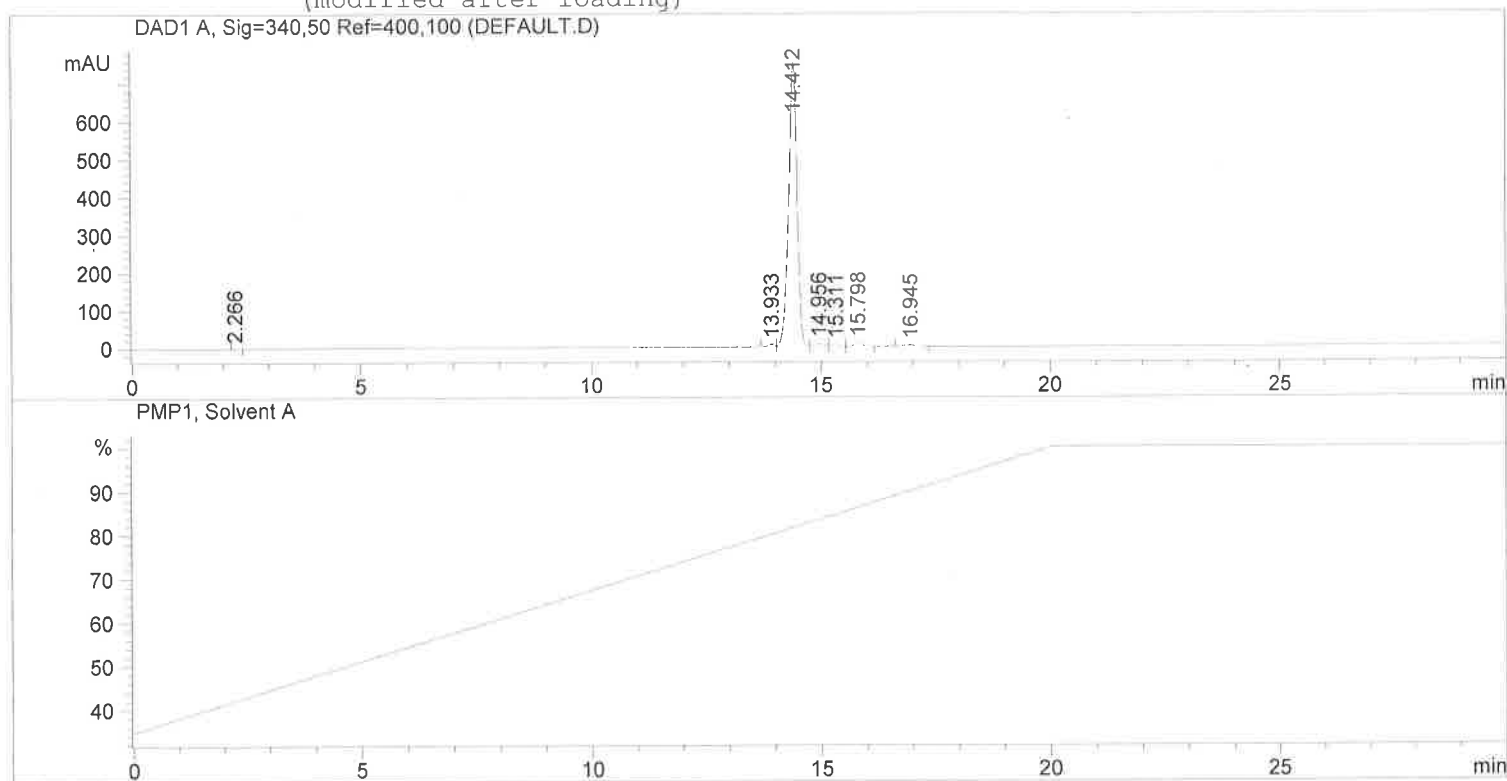


Figure S127: High resolution mass spectrum of **10B**

Injection Date : 4/19/2022 1:48:14 PM
Sample Name : SW-85-114B Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/19/2022 12:01:10 PM
(modified after loading)



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.266	PB	0.1160	12.26225	1.45977	0.1233
2	13.933	BV	0.1487	72.28875	7.22981	0.7268
3	14.412	VV	0.1853	9503.08984	752.57904	95.5456
4	14.956	VV	0.1775	120.82584	9.55987	1.2148
5	15.311	VV	0.1562	69.23528	6.60800	0.6961
6	15.798	VB	0.1742	113.87707	9.90321	1.1449
7	16.945	PP	0.2162	54.55200	3.38083	0.5485

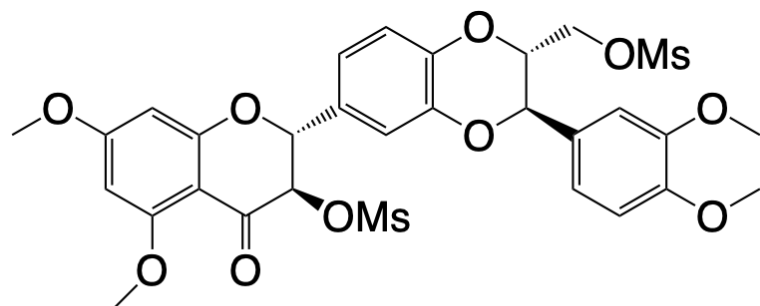
Totals : 9946.13103 790.72053

Results obtained with enhanced integrator!

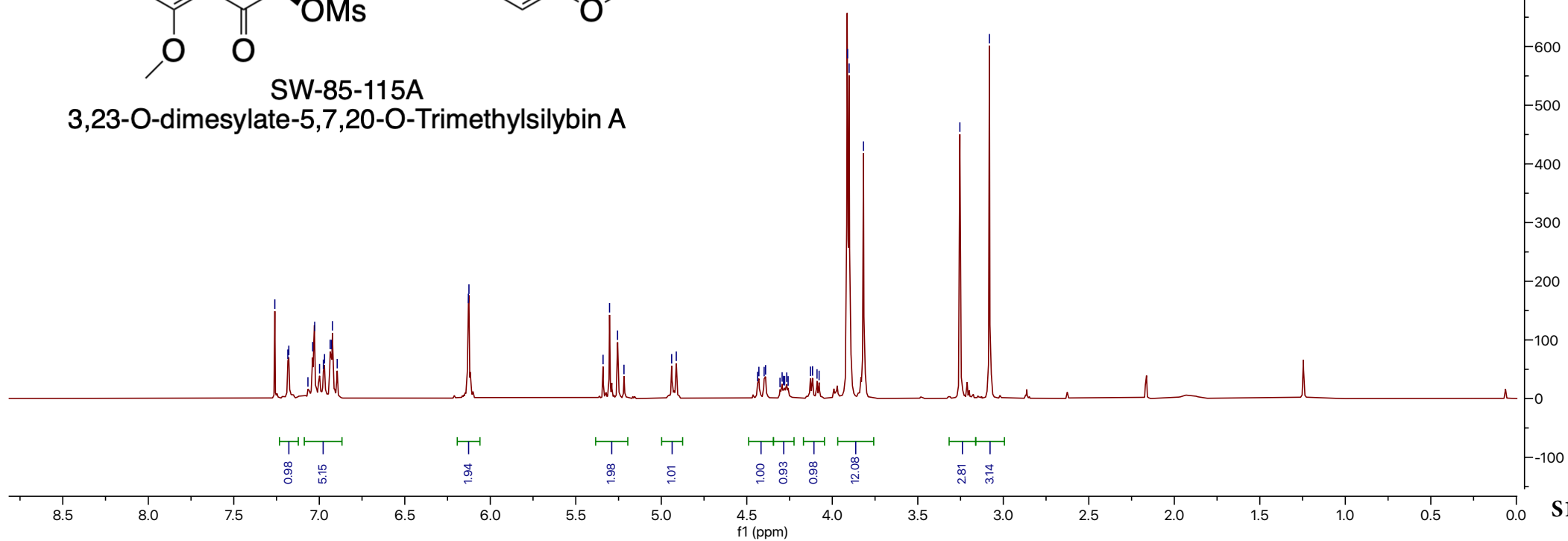
*** End of Report ***

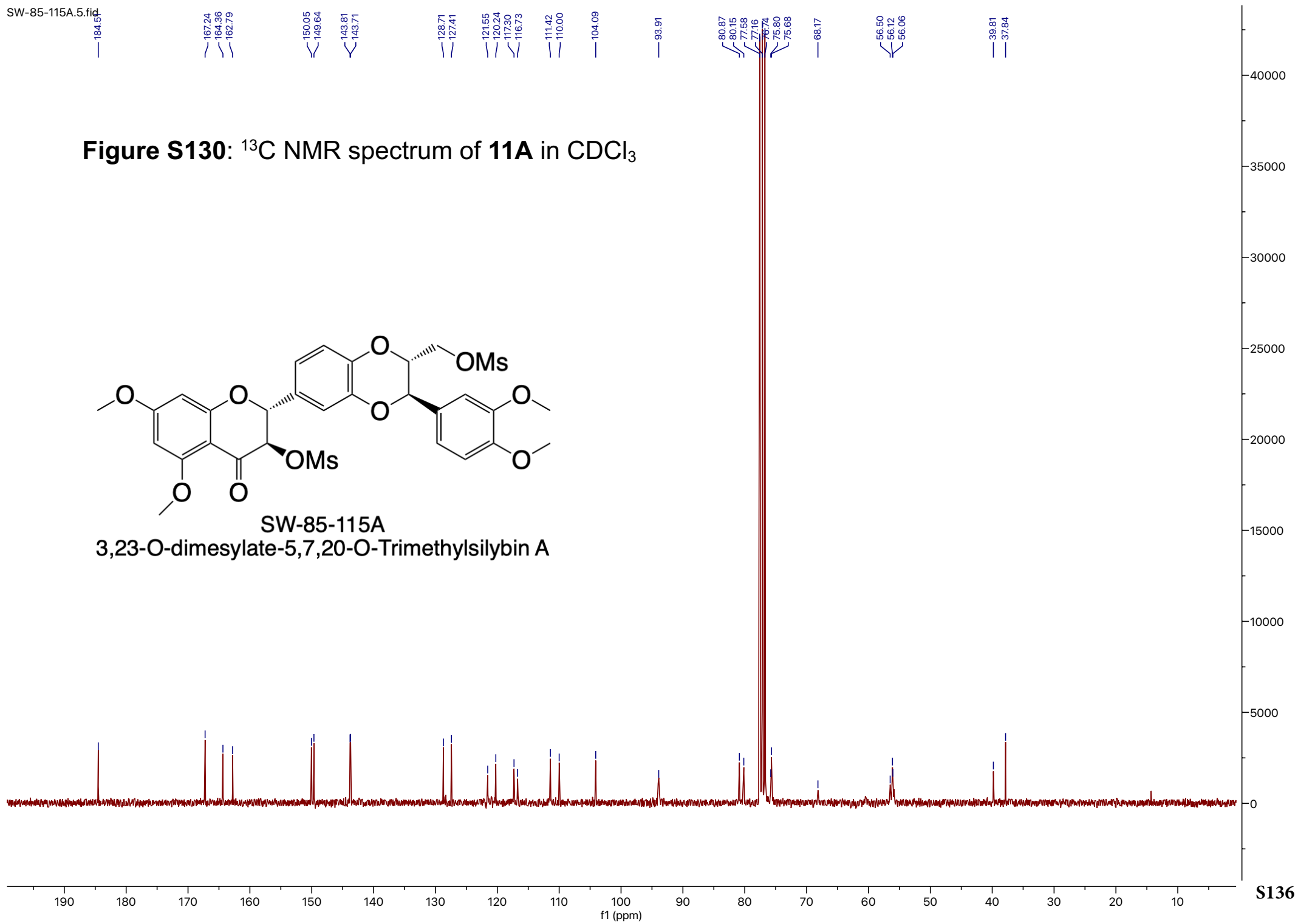
Figure S128: HPLC chromatogram of 10B

S134



SW-85-115A
3,23-O-dimesylate-5,7,20-O-Trimethylsilybin A





Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-115A	C30H32O14S2	680.1234	681.1312	681.1306	-0.0006	-0.91

SW-85-115A #2248-2574 RT: 12.02-13.76 AV: 327 NL: 2.02E6
T: FTMS + c NSI Full ms [120.0000-750.0000]

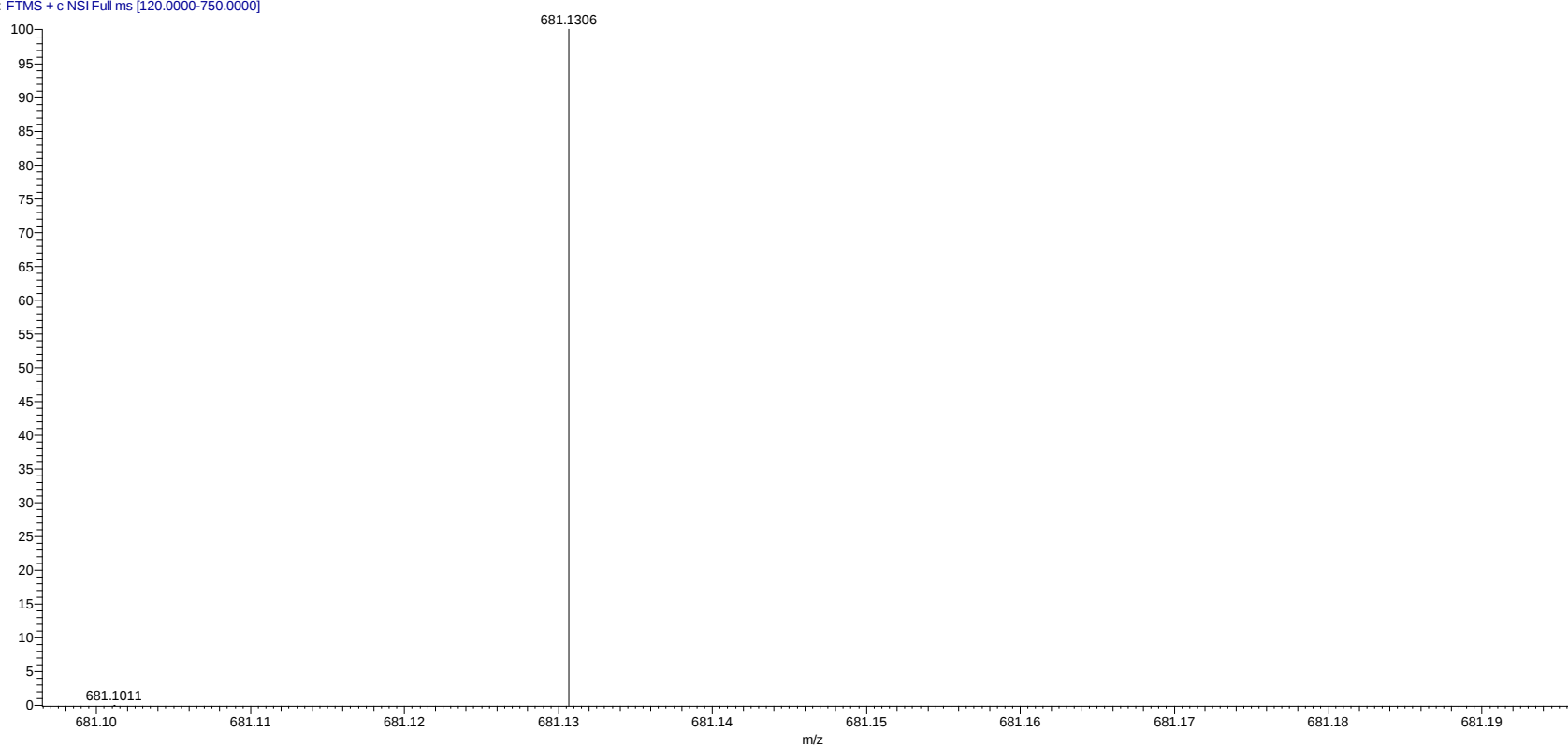
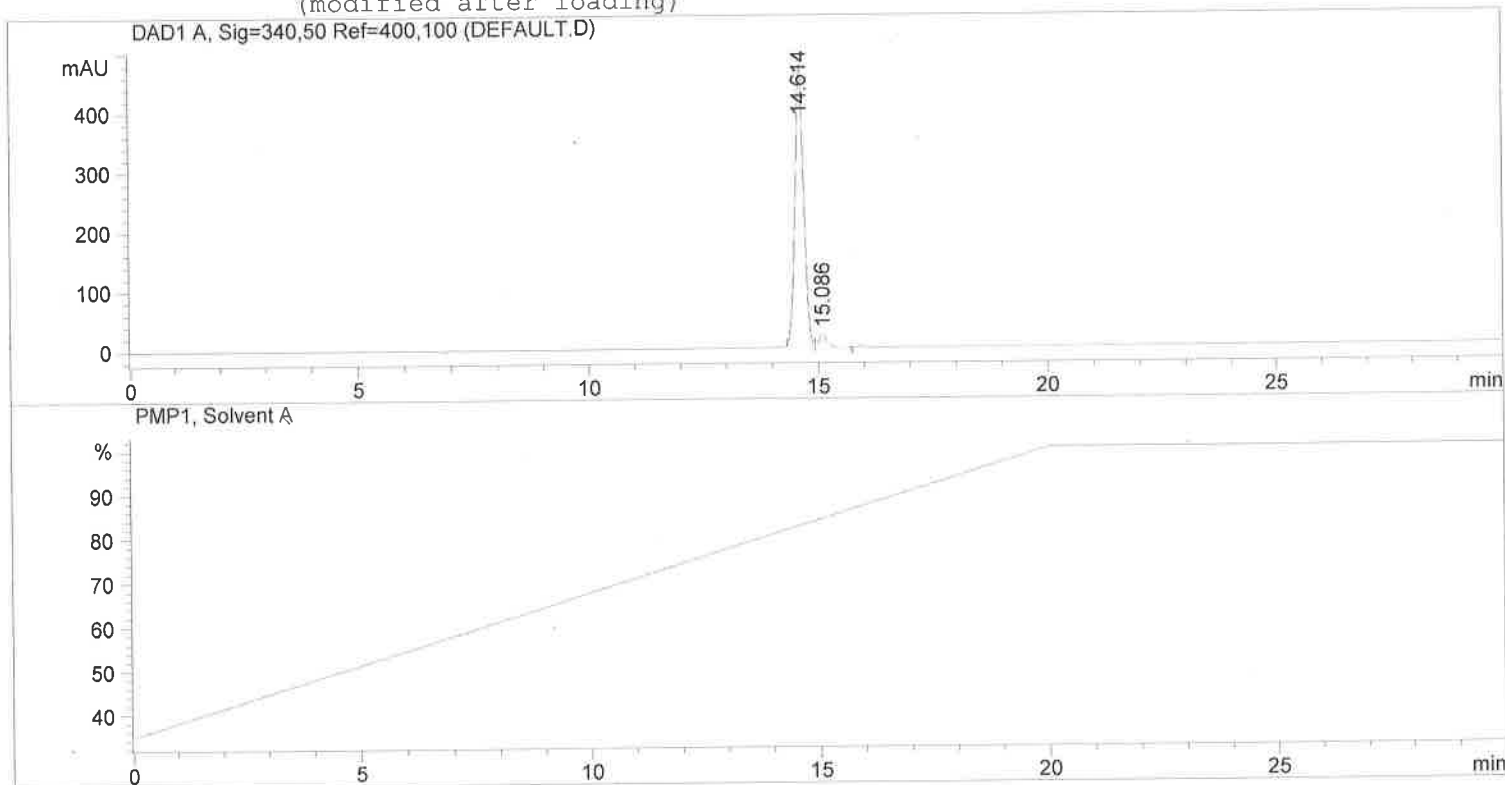


Figure S131: High resolution mass spectrum of **11A**

=====

Injection Date : 4/23/2022 4:42:53 PM
Sample Name : SW-85-115A Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/22/2022 5:19:36 PM
(modified after loading)



=====

Area Percent Report

=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.614	BV	0.1877	6104.35303	475.69272	95.9774
2	15.086	VP	0.1632	255.84680	23.11047	4.0226

Totals : 6360.19983 498.80318

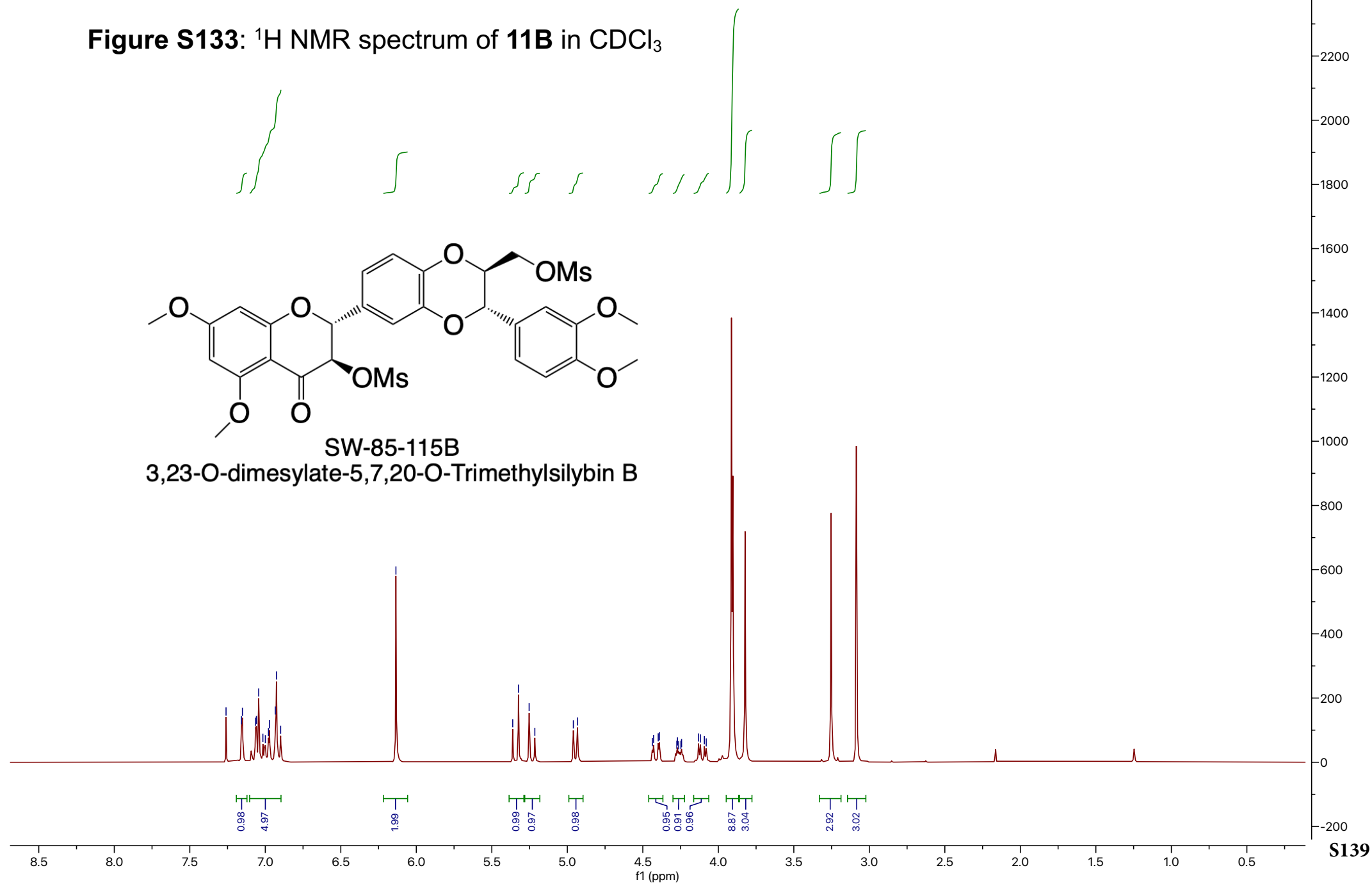
Results obtained with enhanced integrator!

=====

*** End of Report ***

Figure S132: HPLC chromatogram of 11A

S138



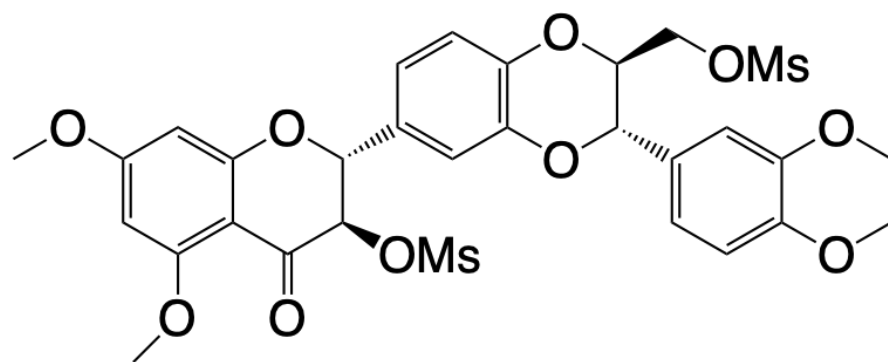
184.48

167.21
164.31
162.78150.04
149.61143.74
143.69128.62
127.42121.29
120.21
117.47
117.04111.43
110.02

104.10

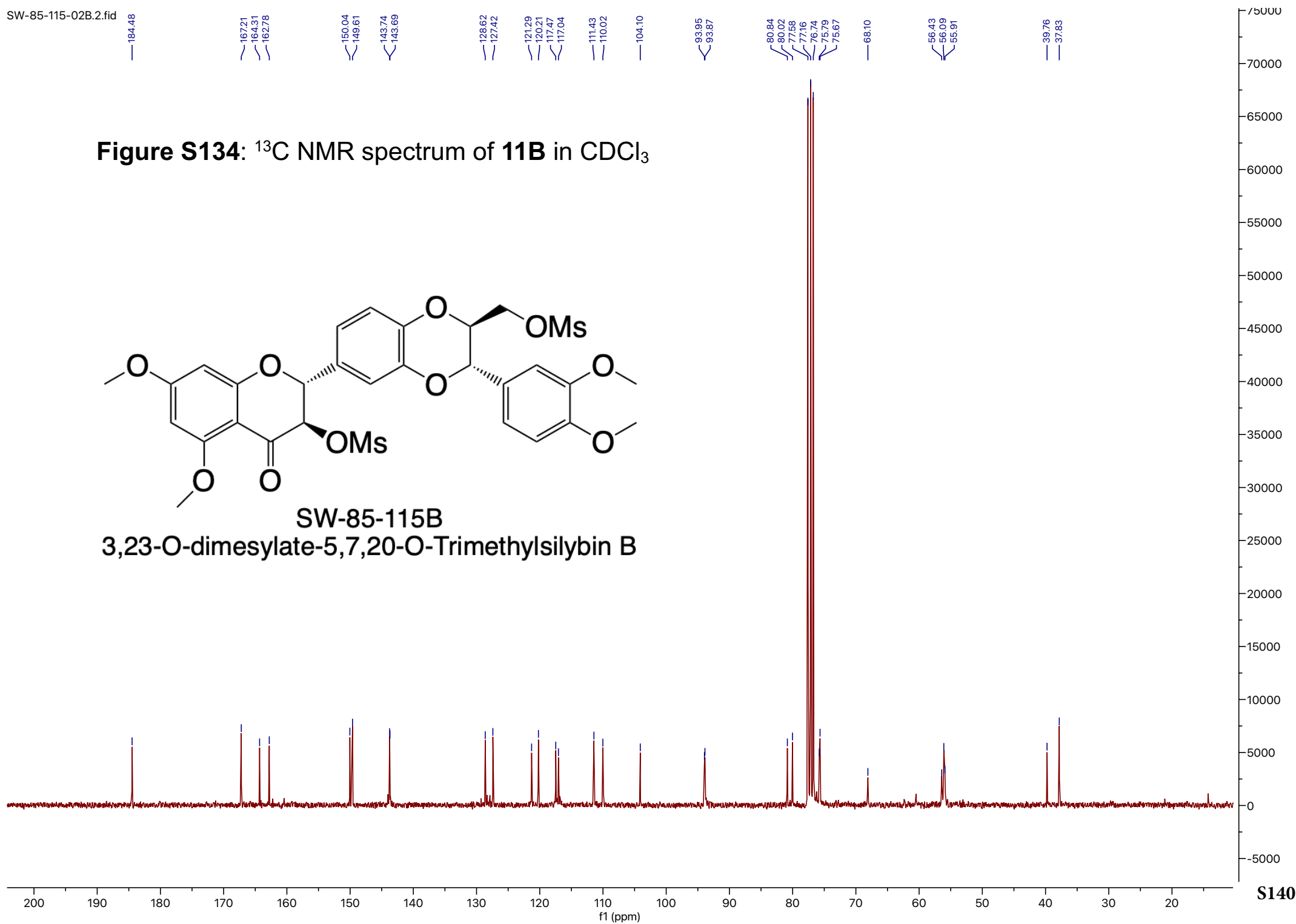
93.95
93.8780.84
80.02
77.58
77.16
76.74
75.79
75.67

68.10

56.43
56.09
55.9139.76
37.83**Figure S134:** ^{13}C NMR spectrum of **11B** in CDCl_3 

SW-85-115B

3,23-O-dimesylate-5,7,20-O-Trimethylsilybin B



Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-115B	C30H32O14S2	680.1234	681.1312	681.1310	-0.0002	-0.32

SW-85-115B #1521-3665 RT: 8.41-19.95 AV: 2145 NL: 2.16E6
T: FTMS + c NSI Full ms [120.0000-750.0000]

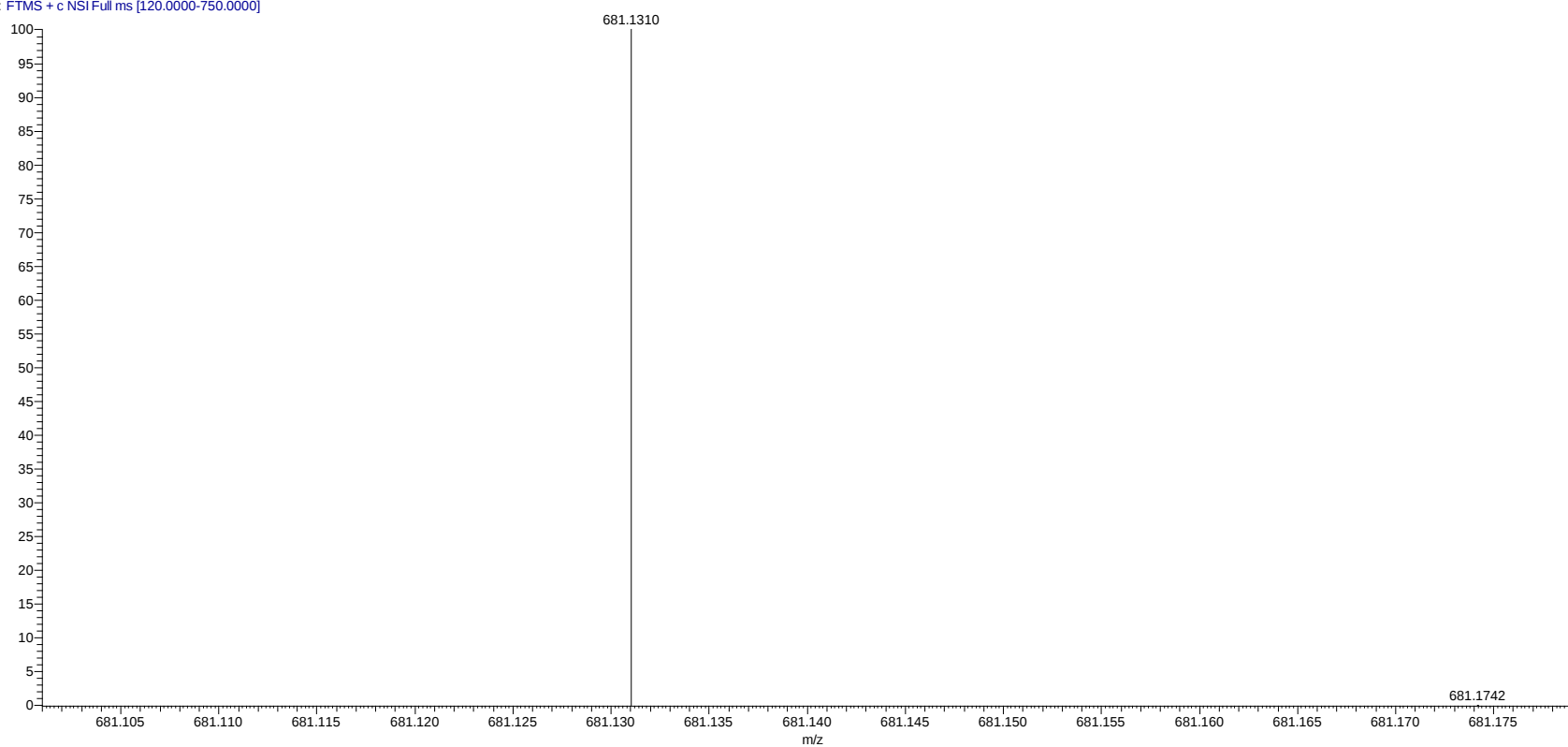
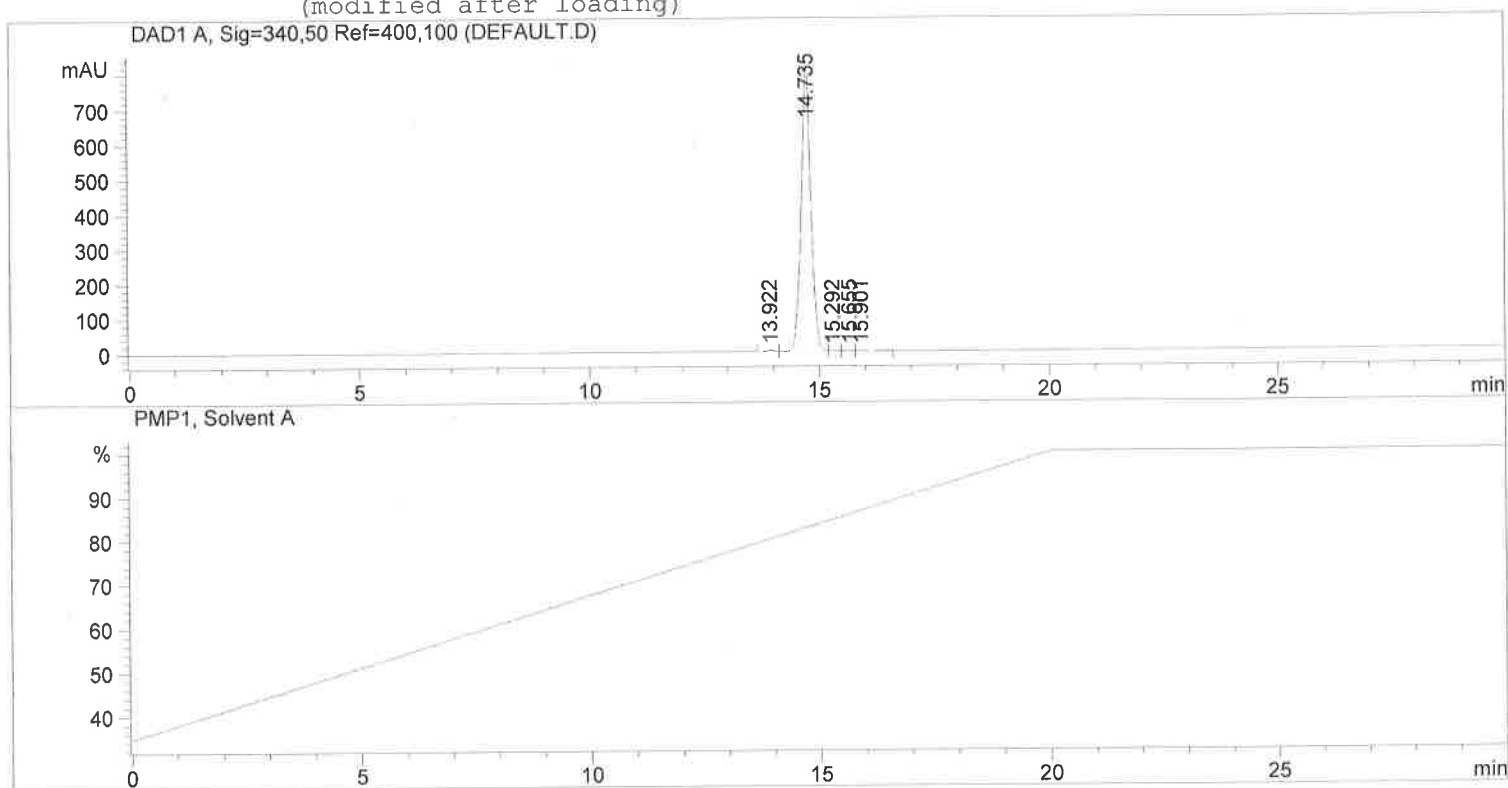


Figure S135: High resolution mass spectrum of **11B**

=====

Injection Date : 4/23/2022 5:28:28 PM
Sample Name : SW-85-115B Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/22/2022 5:19:36 PM
(modified after loading)



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

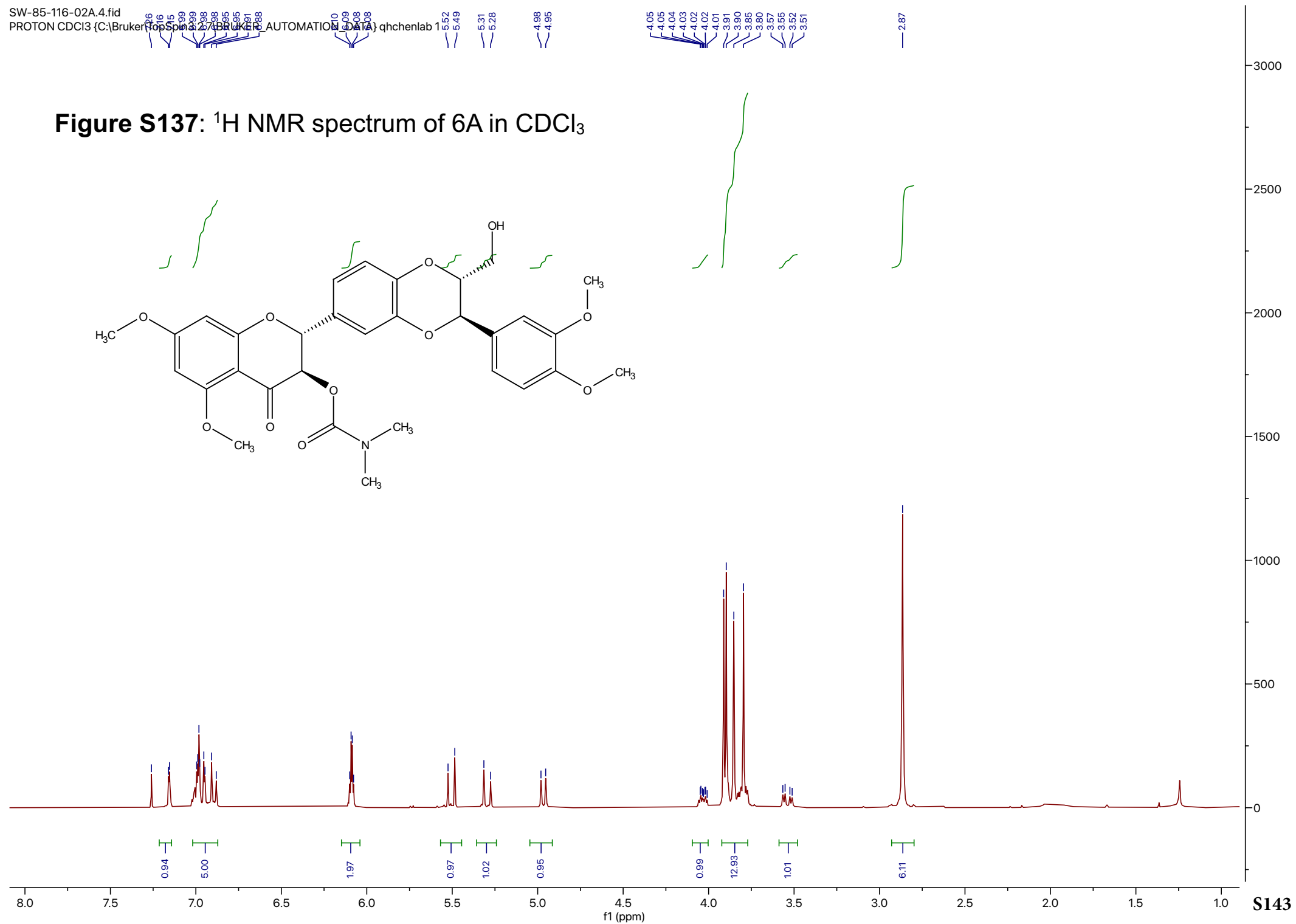
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.922	BV	0.1707	47.03403	4.01530	0.3891
2	14.735	VV	0.2151	1.19343e4	813.72095	98.7236
3	15.292	VV	0.1652	36.68073	3.21229	0.3034
4	15.655	VV	0.1810	34.45500	2.85137	0.2850
5	15.901	VP	0.1856	36.12410	2.81770	0.2988

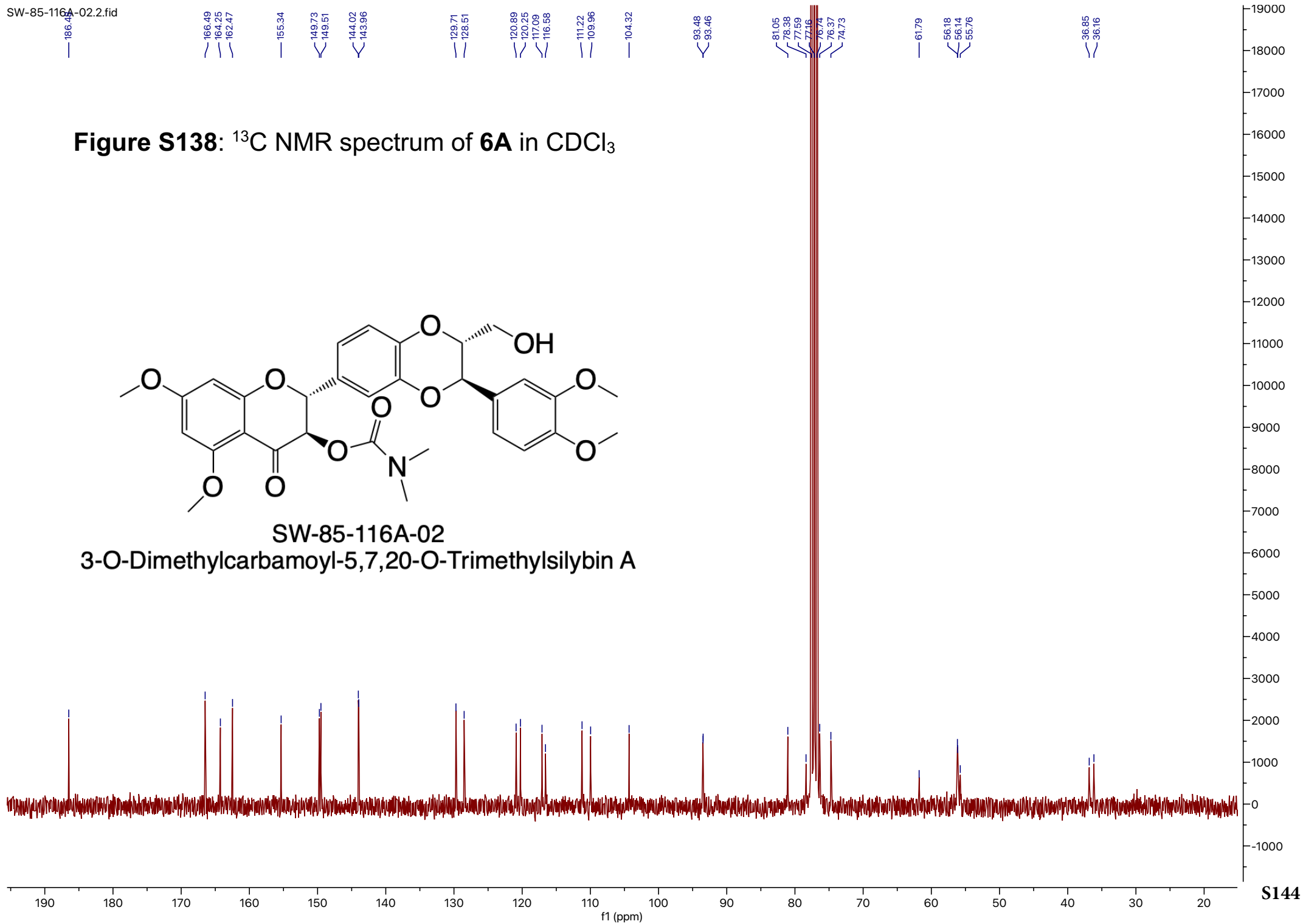
Totals : 1.20886e4 826.61761

Results obtained with enhanced integrator!

*** End of Report ***

Figure S136: HPLC chromatogram of 11B





Sample Name	Mol Formula	MW	M+H	observed	delta	ppm
SW-85-116A-02	C31H33NO11	595.2054	596.2132	596.2129	-0.0003	-0.52

SW-85-116A-02 #2228-2277 RT: 11.91-12.17 AV: 50 NL: 2.41E8
T: FTMS + c NSI Full ms [120.0000-750.0000]

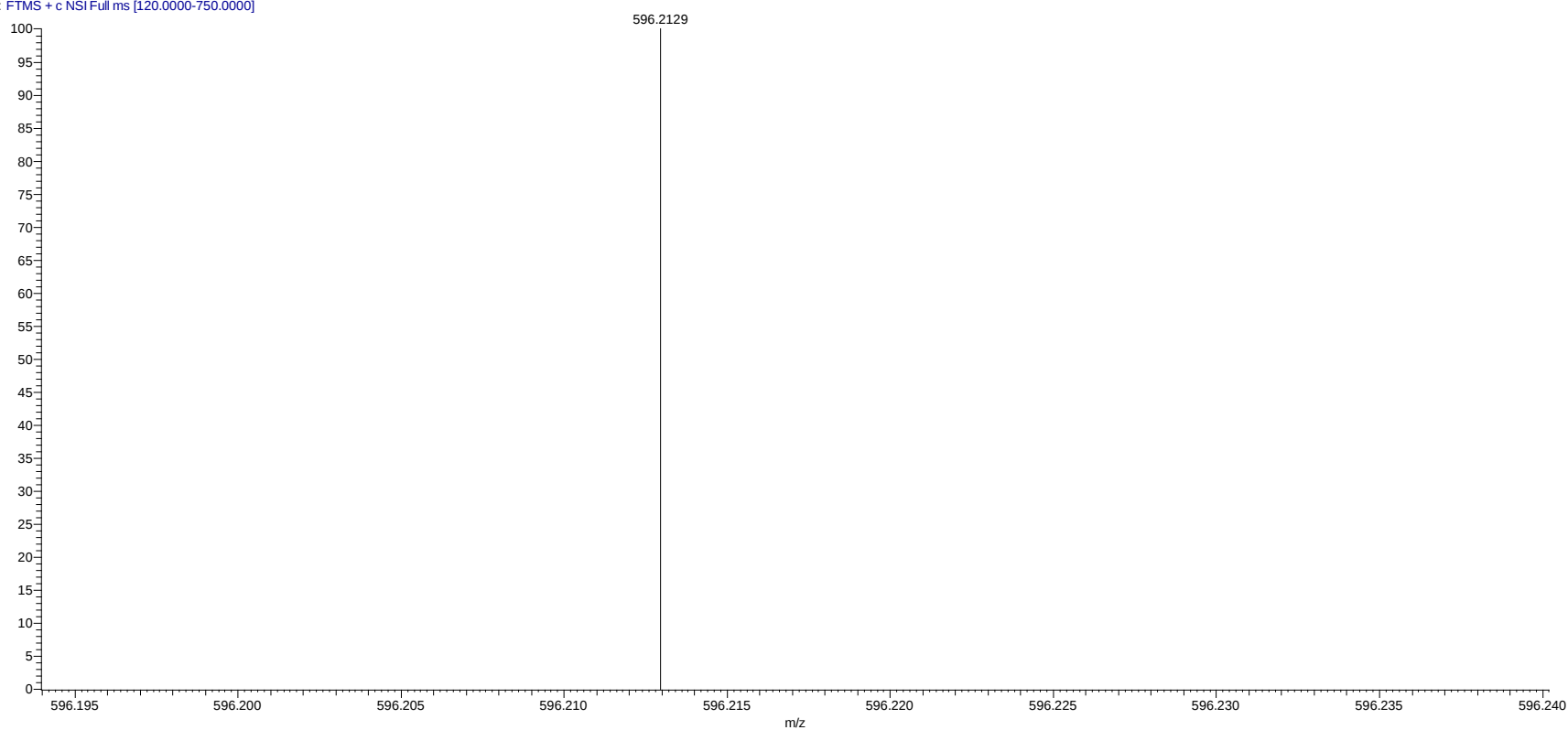
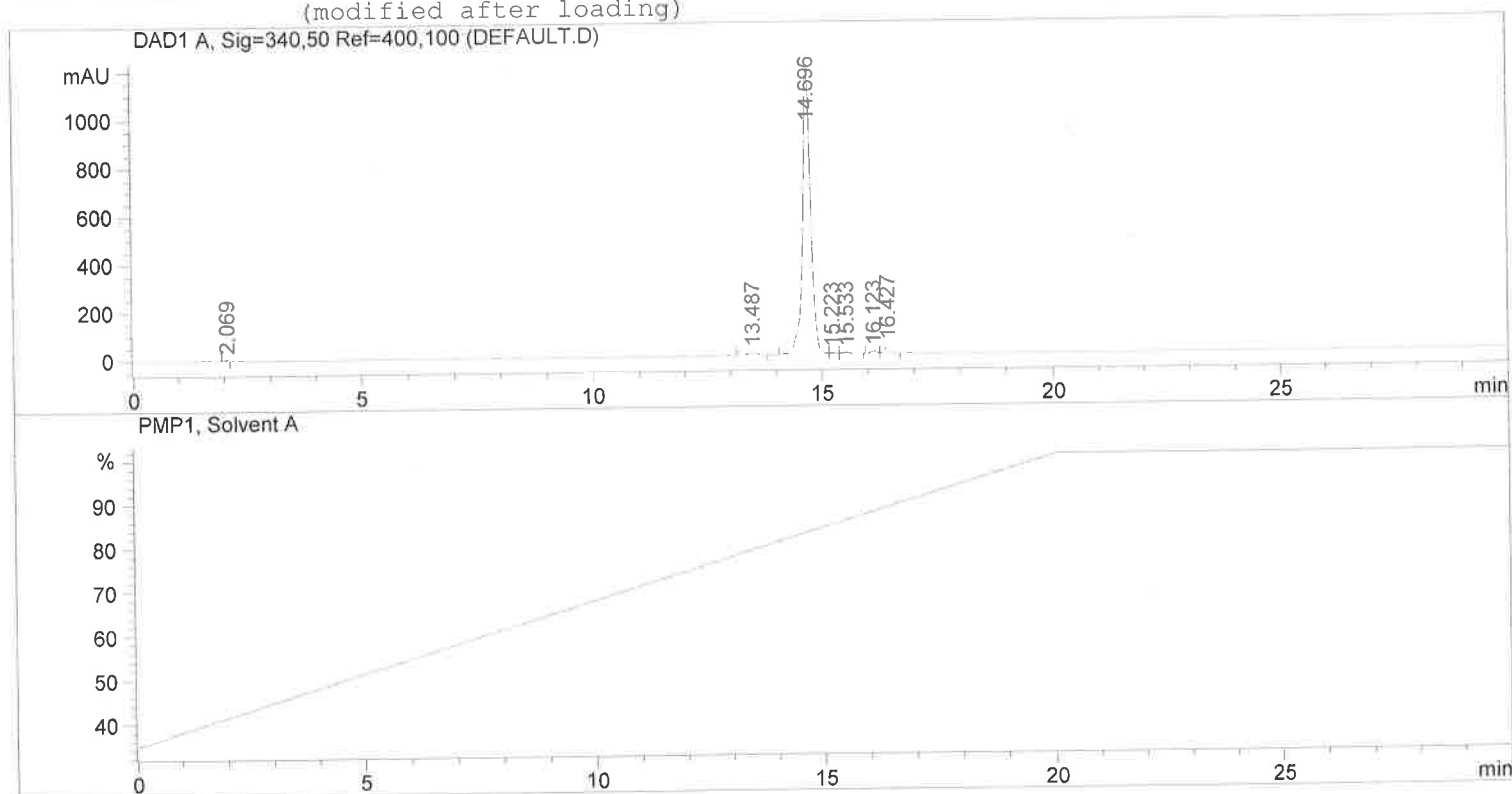


Figure S139: High resolution mass spectrum of **6A**

=====
Injection Date : 4/18/2022 3:52:21 PM
Sample Name : SW-85-116A-02 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/18/2022 3:51:49 PM
(modified after loading)
=====



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.069	BP	0.0887	45.51932	7.11014	0.2993
2	13.487	BB	0.1824	119.77469	9.67877	0.7875
3	14.696	BB	0.1824	1.45948e4	1179.54858	95.9623
4	15.223	BV	0.1444	29.75826	2.98306	0.1957
5	15.533	VP	0.1661	54.19590	4.78533	0.3563
6	16.123	BV	0.1288	77.73266	9.17496	0.5111
7	16.427	VB	0.1378	287.10831	31.65473	1.8878

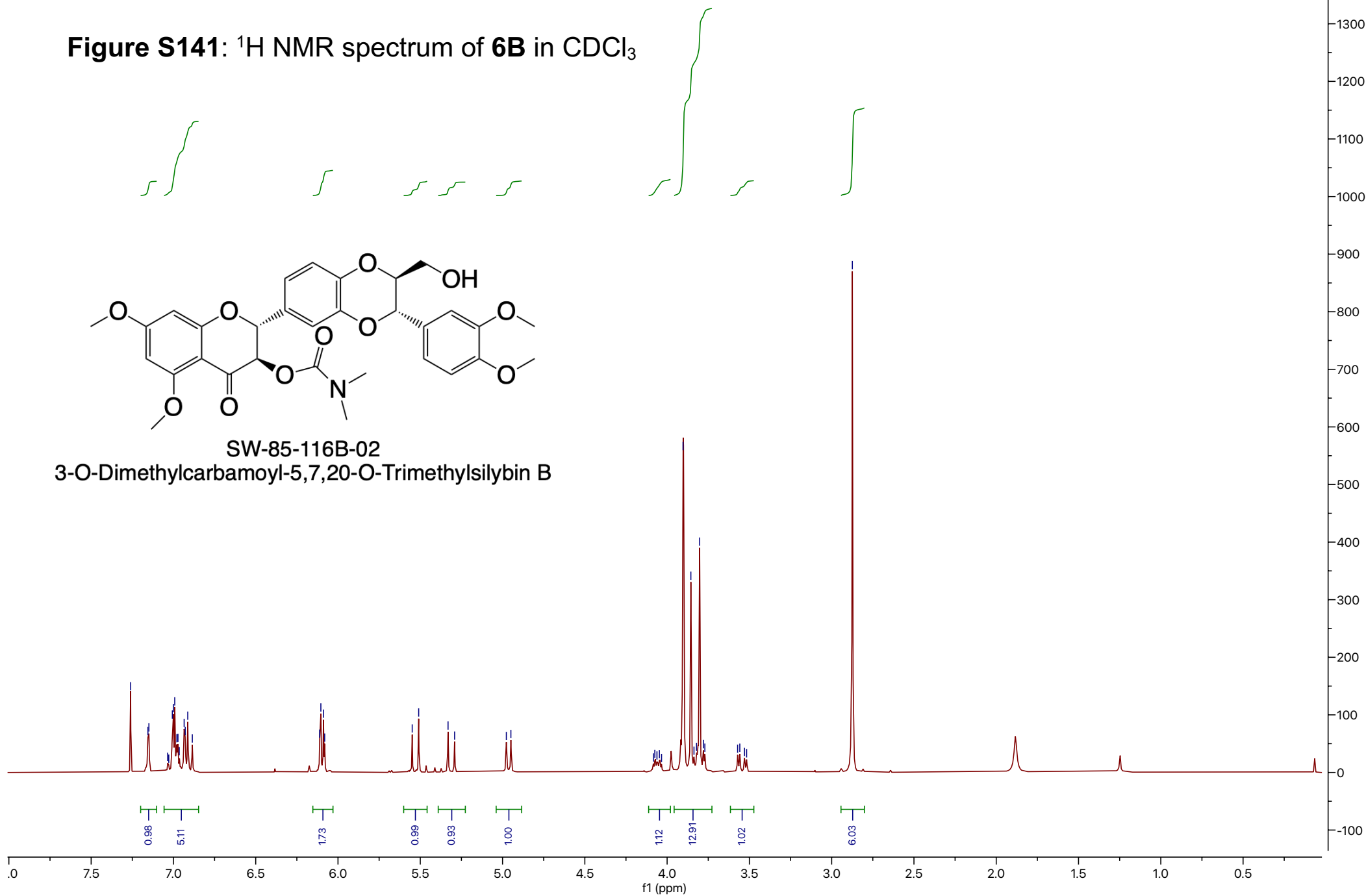
Totals : 1.52089e4 1244.93559

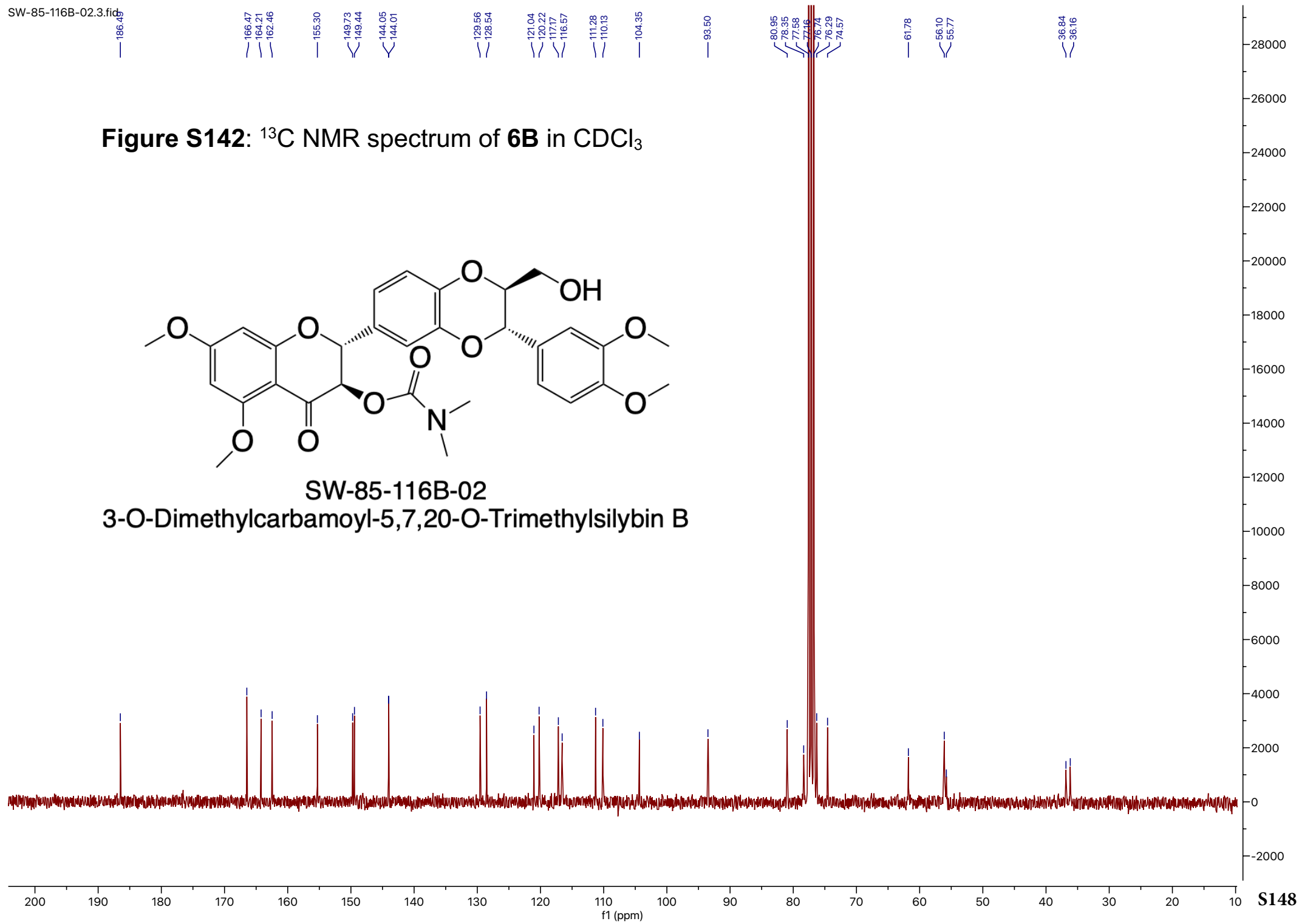
Results obtained with enhanced integrator!

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

Figure S140: HPLC chromatogram of 6A

S146

Figure S141: ^1H NMR spectrum of **6B** in CDCl_3 



Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-116B-02	C31H33NO11	595.2054	596.2132	596.2133	0.0001	0.15

SW-85-116B-02 #2108-2201 RT: 11.49-11.99 AV: 94 NL: 2.27E8
T: FTMS + c NSI Full ms [120.0000-750.0000]

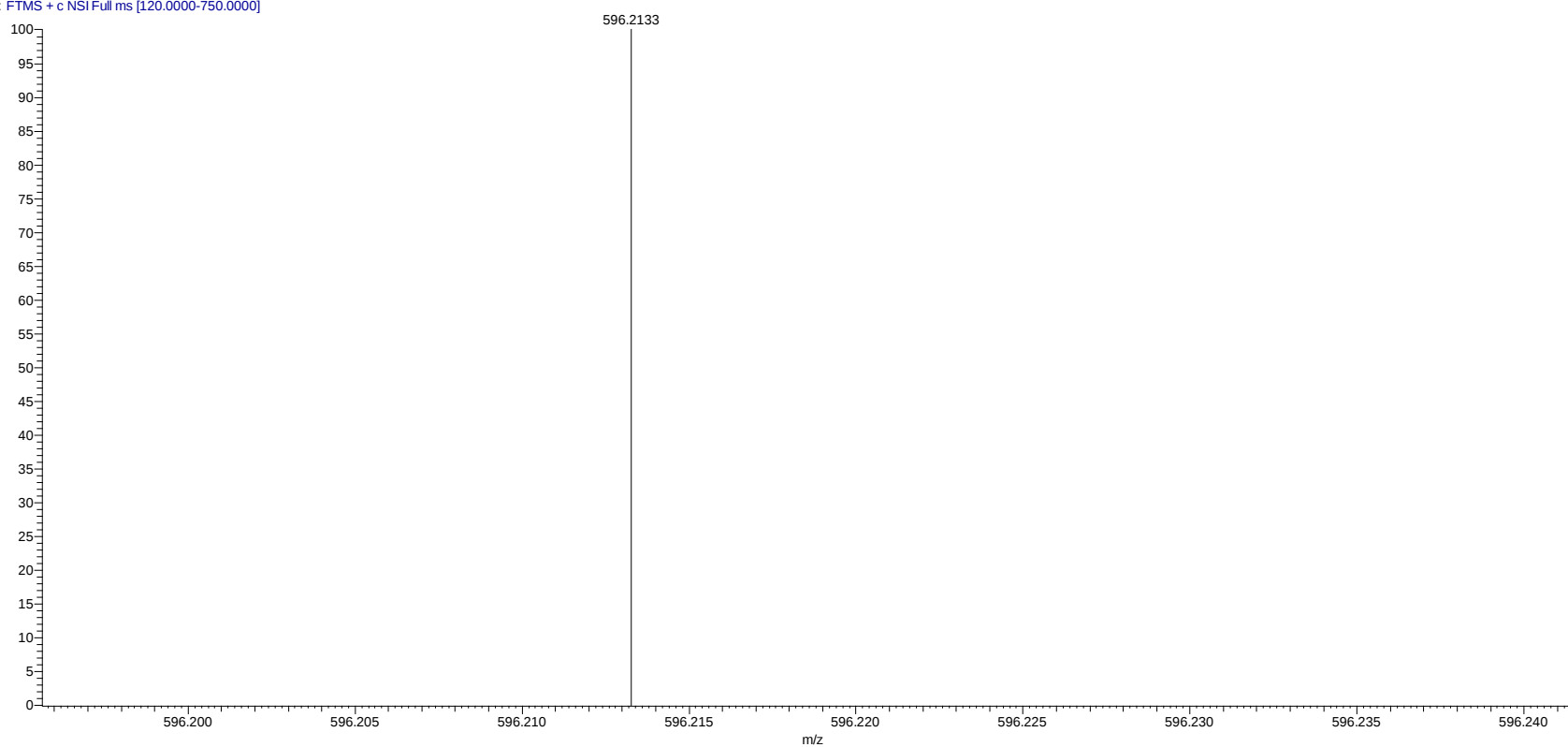
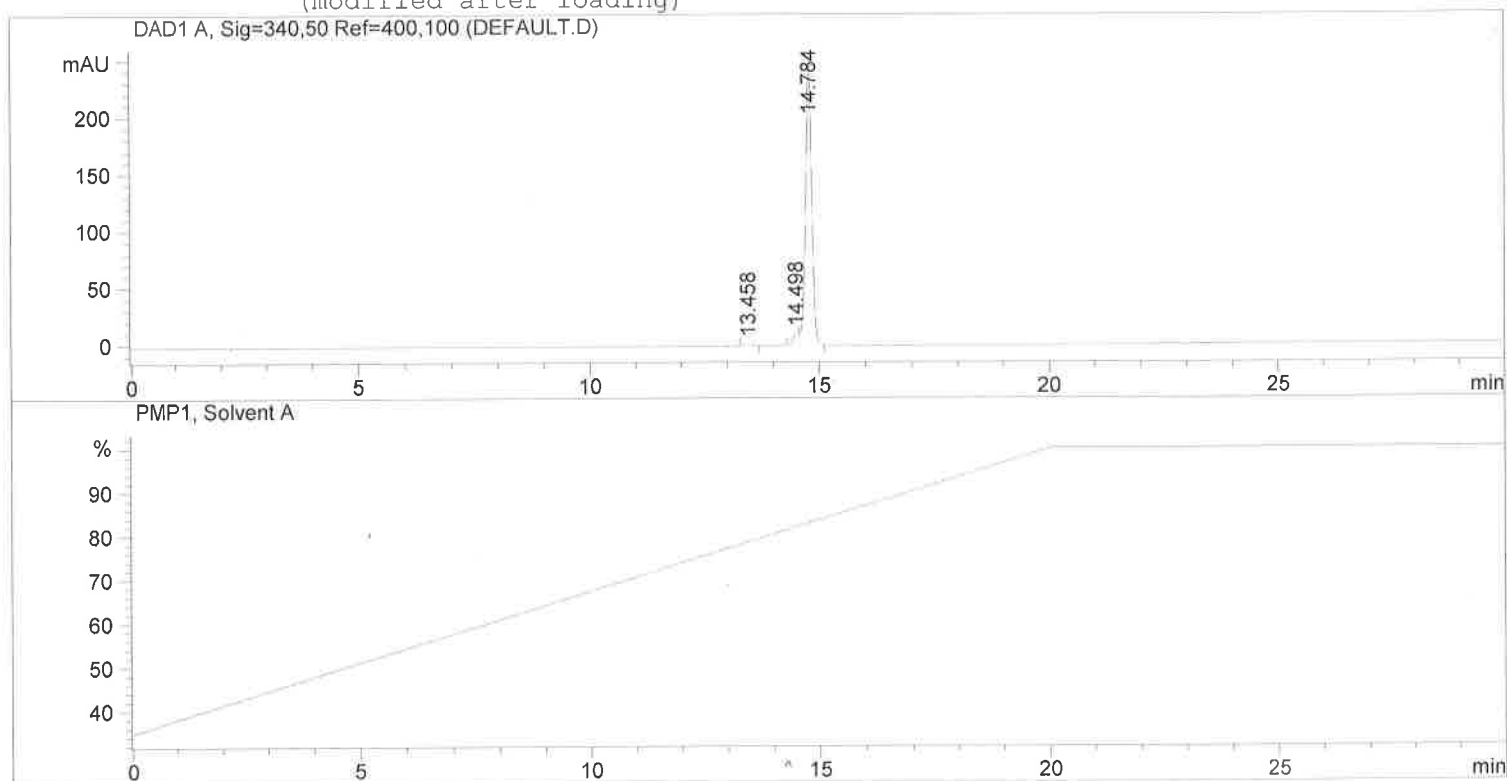


Figure S143: High resolution mass spectrum of **6B**

Injection Date : 4/19/2022 4:52:04 PM
Sample Name : SW-85-116B-02 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/19/2022 12:01:10 PM
(modified after loading)



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.458	BB	0.1464	25.09278	2.55986	1.0332
2	14.498	BV	0.1194	91.06142	11.37198	3.7495
3	14.784	VB	0.1411	2312.44775	247.18042	95.2172

Totals : 2428.60195 261.11226

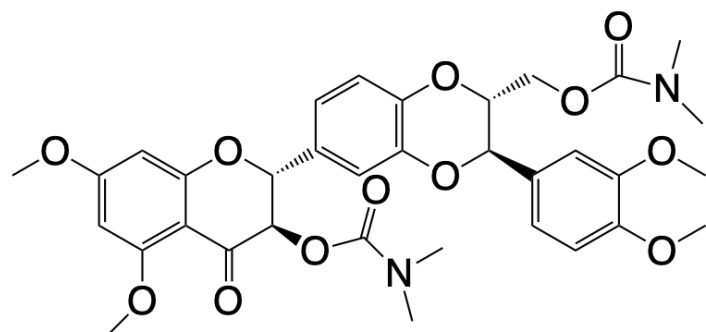
Results obtained with enhanced integrator!

*** End of Report ***

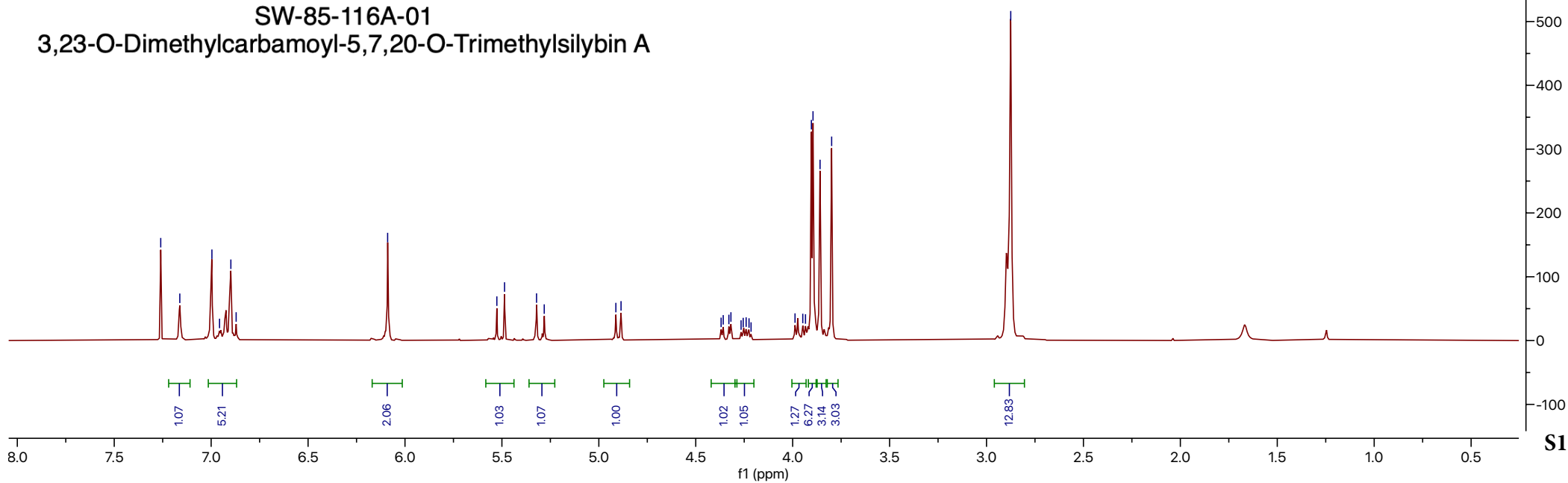
Figure S144: HPLC chromatogram of 6B

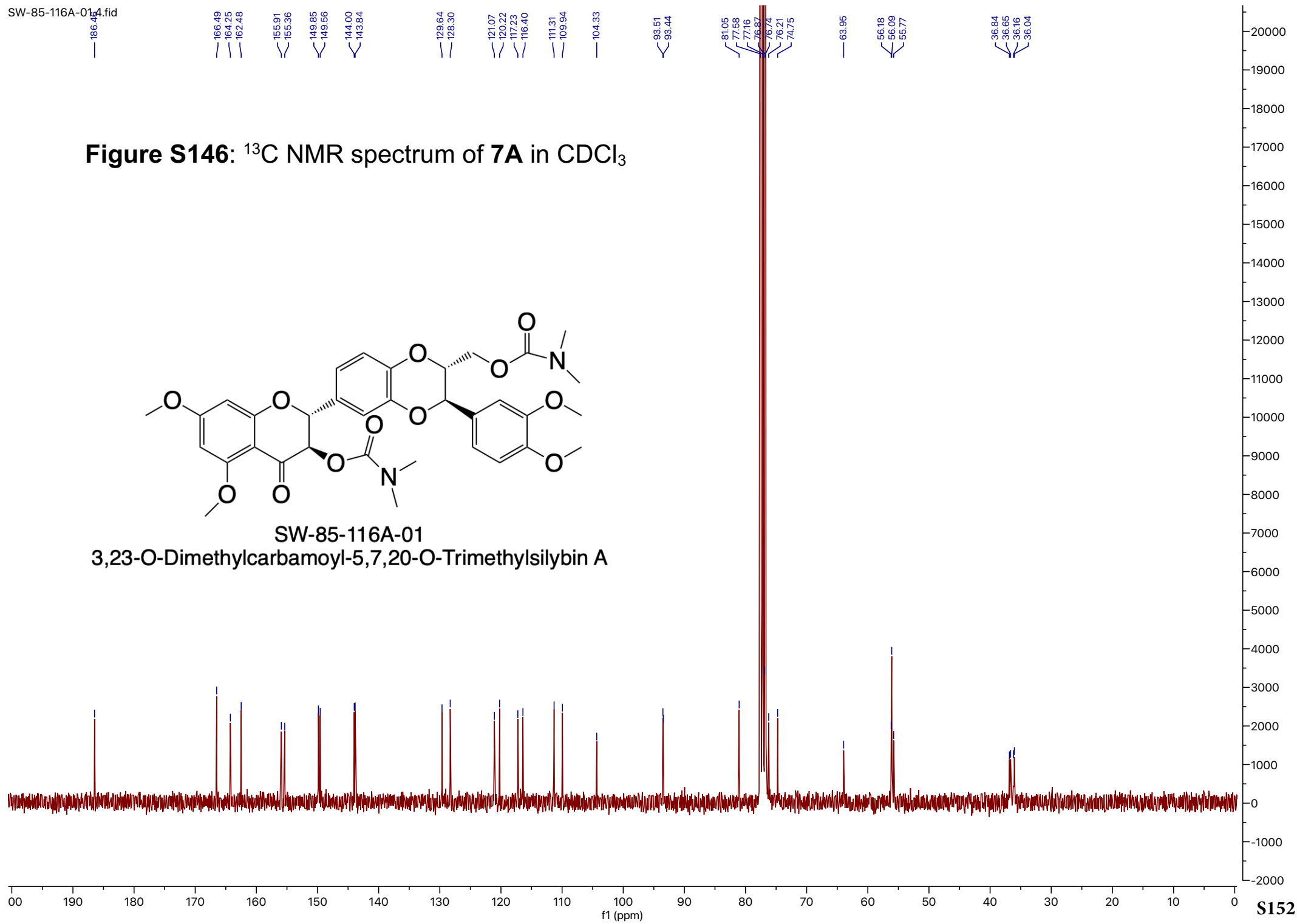
S150

7.260 7.162 6.996 6.957 6.898 6.871
6.090
5.526 5.486 5.321 5.282
4.912 4.885
4.369 4.358 4.329 4.319 4.266 4.255 4.240 4.225 4.215 3.988 3.948 3.934 3.903 3.895 3.859 3.799
2.875

Figure S145: ^1H NMR spectrum of **7A** in CDCl_3 

SW-85-116A-01
3,23-O-Dimethylcarbamoyl-5,7,20-O-Trimethylsilybin A





Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-116A-01	C ₃₄ H ₃₈ N ₂ O ₁₂	666.2425	667.2503	667.2499	-0.0004	-0.66

SW-85-116A-01 #2353-2580 RT: 12.57-13.79 AV: 228 NL: 2.36E8
T: FTMS + c NSI Full ms [120.0000-750.0000]

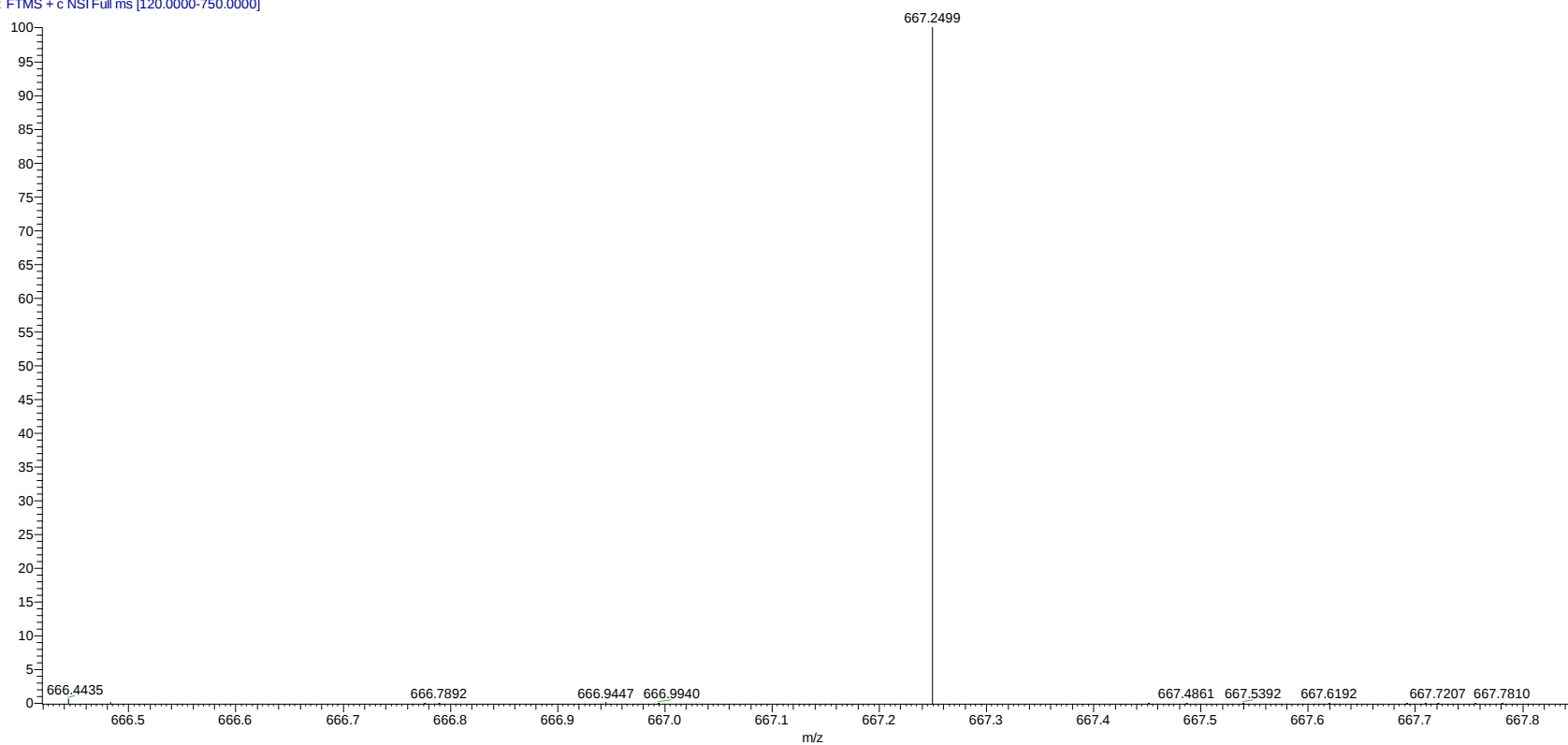
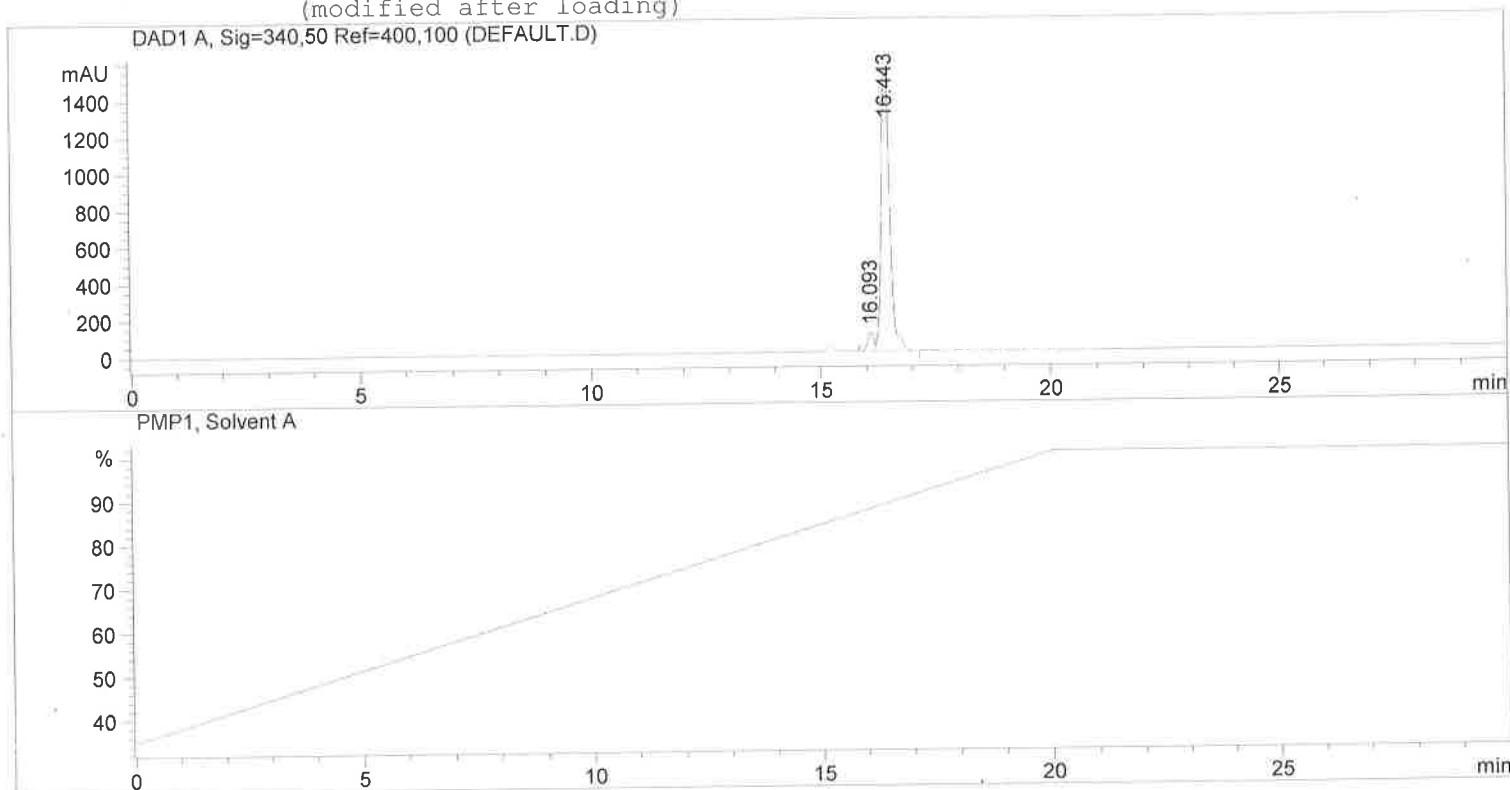


Figure S147: High resolution mass spectrum of **7A**

=====
Injection Date : 4/20/2022 4:23:32 PM
Sample Name : SW-85-116A-01 Location : Vial 1
Acq. Operator :
Acq. Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/20/2022 3:39:29 PM
Analysis Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/20/2022 5:00:25 PM
(modified after loading)



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.093	VV	0.1436	952.72302	110.56577	4.5209
2	16.443	VV	0.2165	2.01212e4	1548.75269	95.4791

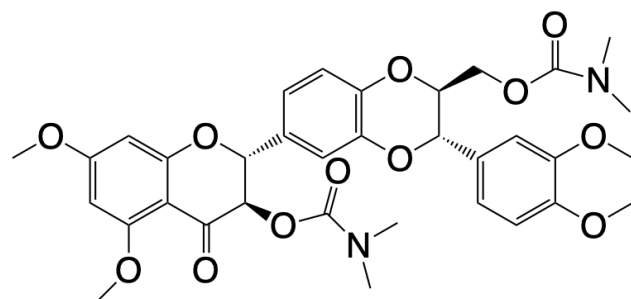
Totals : 2.10739e4 1659.31846

Results obtained with enhanced integrator!

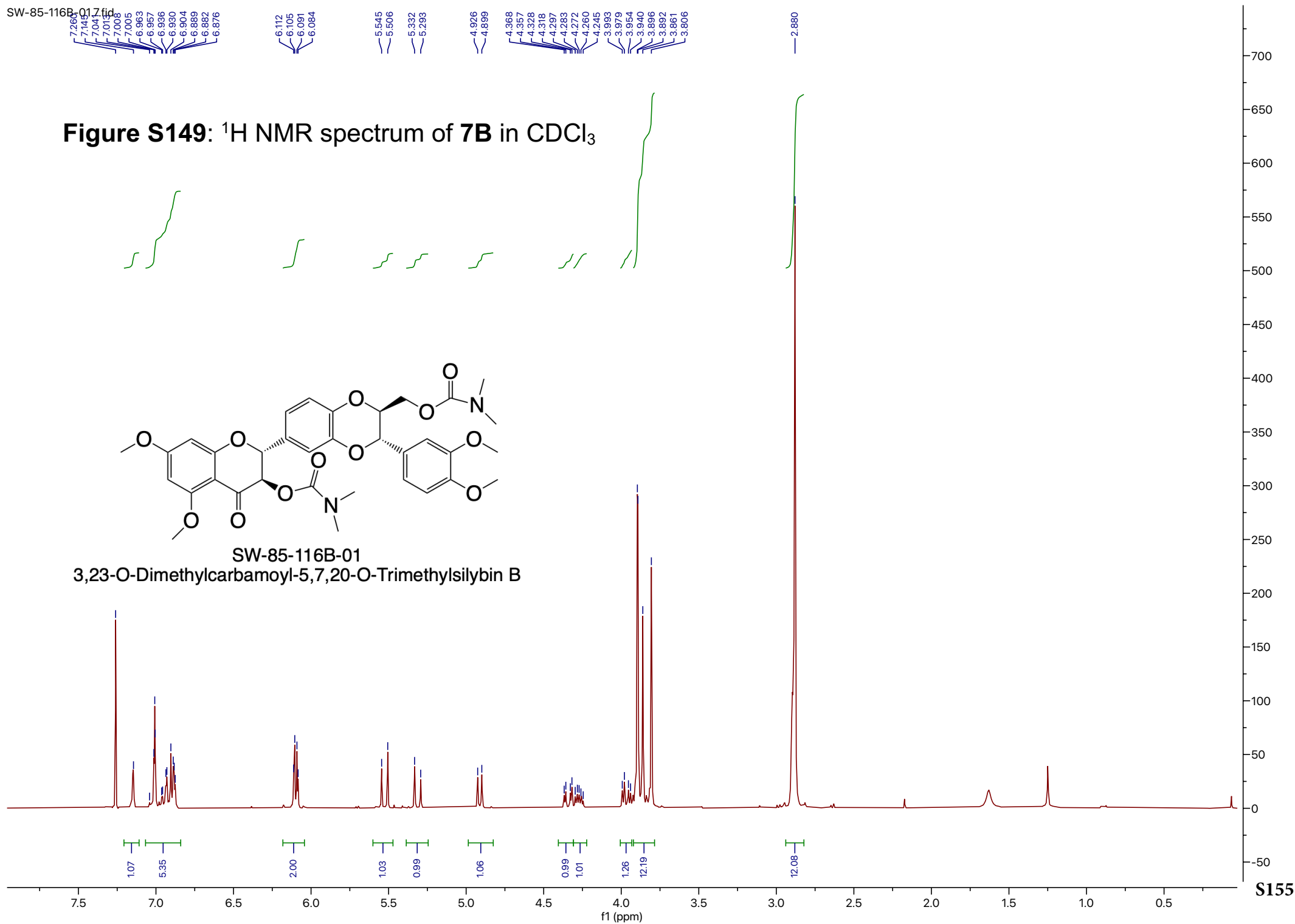
=====
*** End of Report ***

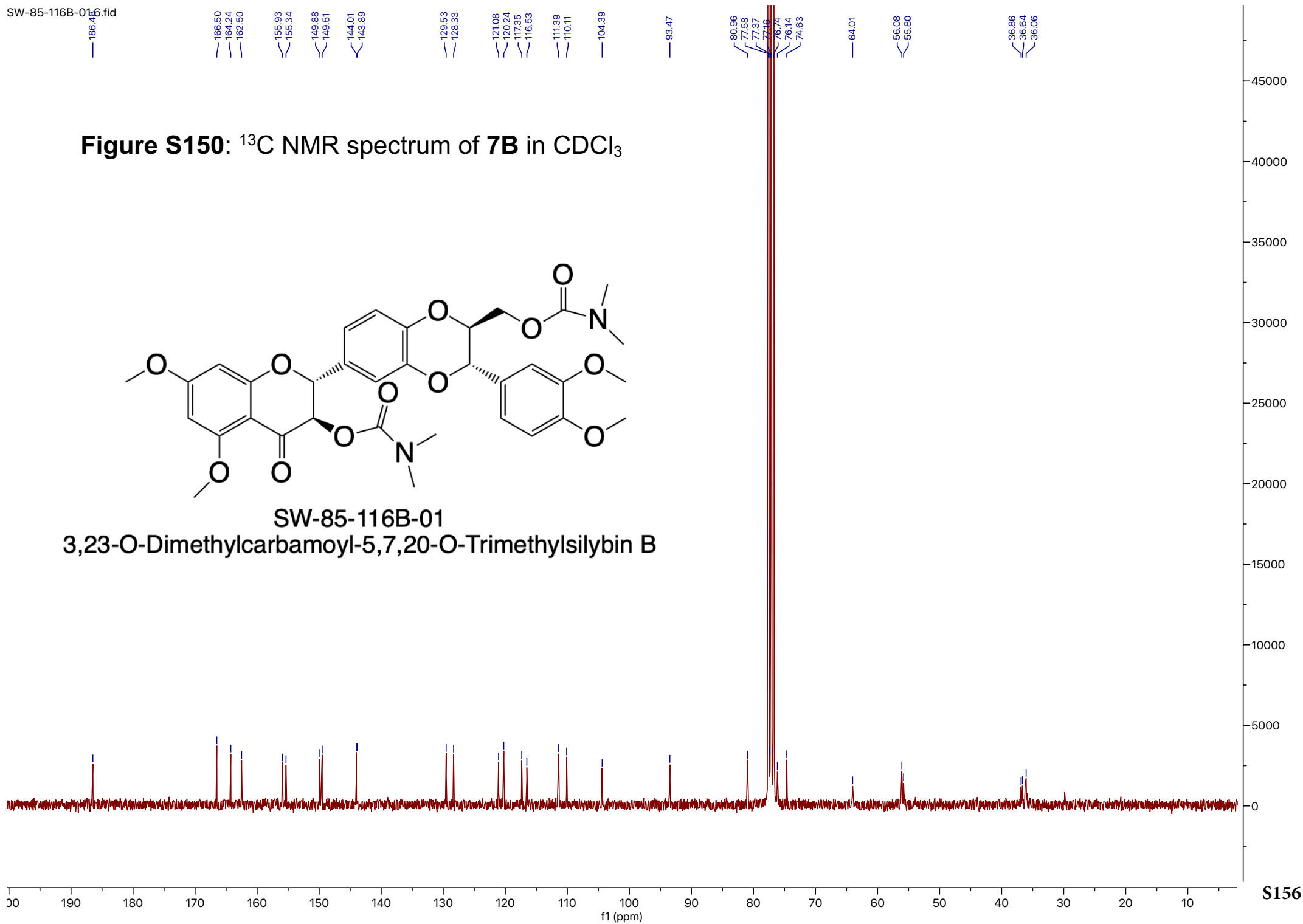
Figure S148: HPLC chromatogram of 7A

S154

Figure S149: ^1H NMR spectrum of **7B** in CDCl_3 

SW-85-116B-01
3,23-O-Dimethylcarbamoyl-5,7,20-O-Trimethylsilybin B





Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-116B-01	C ₃₄ H ₃₈ N ₂ O ₁₂	666.2425	667.2503	667.2501	-0.0002	-0.36

SW-85-116B-01 #1375-4463 RT: 7.60-25.63 AV: 3089 NL: 3.61E7
T: FTMS + c NSI Full ms [120.0000-750.0000]

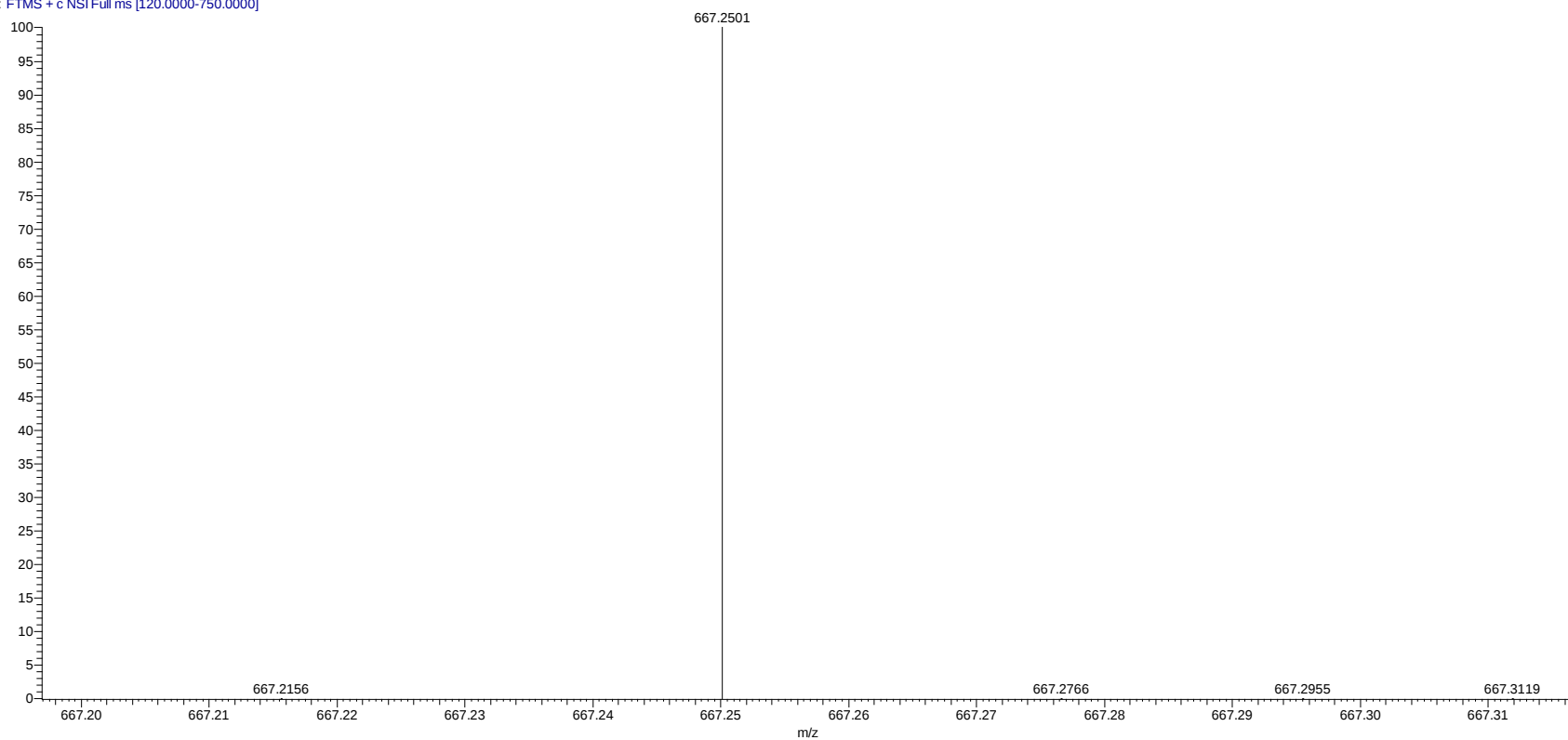
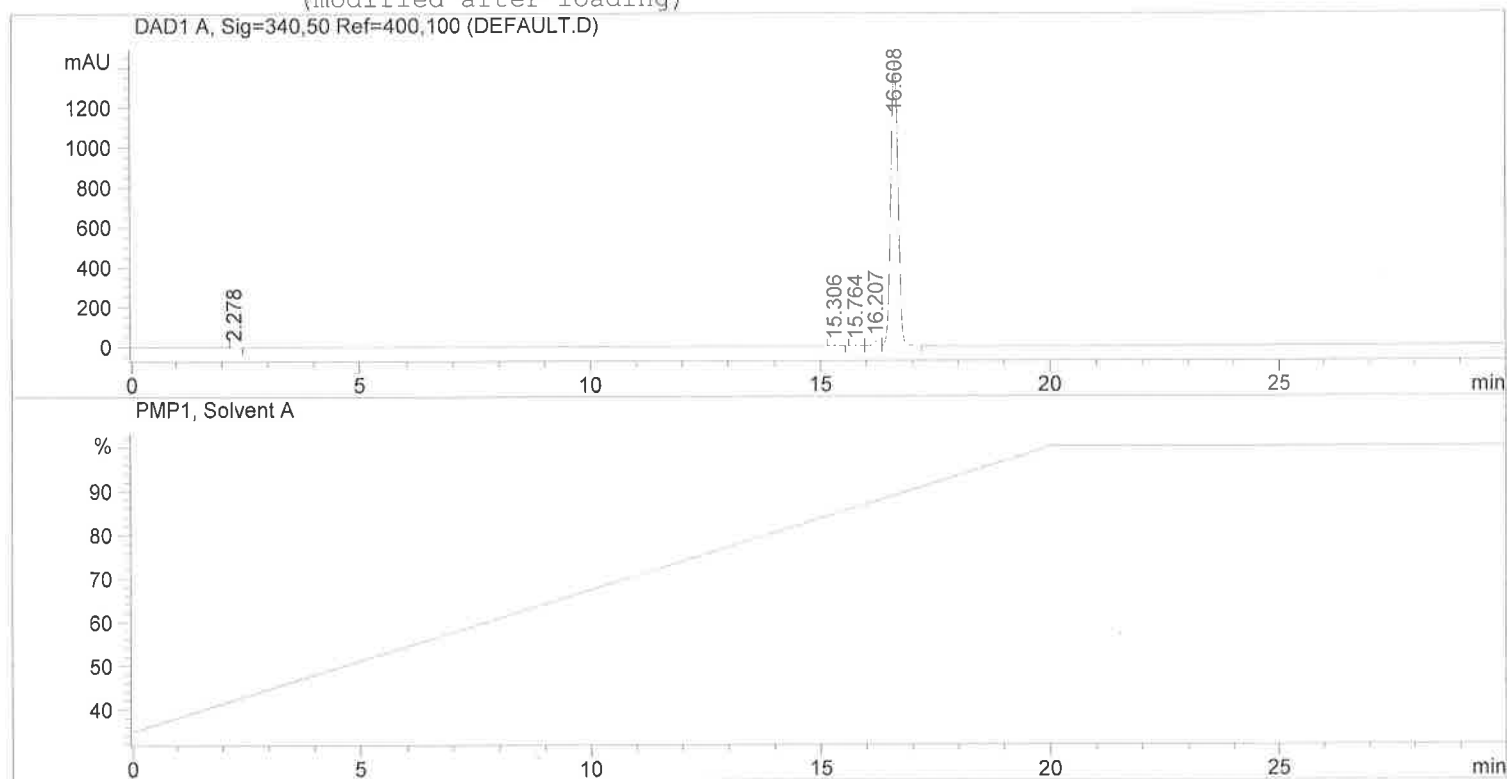


Figure S151: High resolution mass spectrum of **7B**

```

=====
Injection Date   : 4/17/2022 2:04:16 PM
Sample Name     : SW-85-116B-01           Location : Vial 1
Acq. Operator   :
Method          : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed    : 4/16/2022 9:32:45 AM
                  (modified after loading)
=====

```



```

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

```

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000

```

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.278	PB	0.1081	8.38715	1.19145	0.0538
2	15.306	BB	0.1342	19.13877	2.18386	0.1227
3	15.764	BP	0.1302	17.89757	2.08451	0.1148
4	16.207	VV	0.1309	195.76437	23.08830	1.2556
5	16.608	VB	0.1700	1.53507e4	1421.47668	98.4531

Totals : 1.55919e4 1450.02481

Results obtained with enhanced integrator!

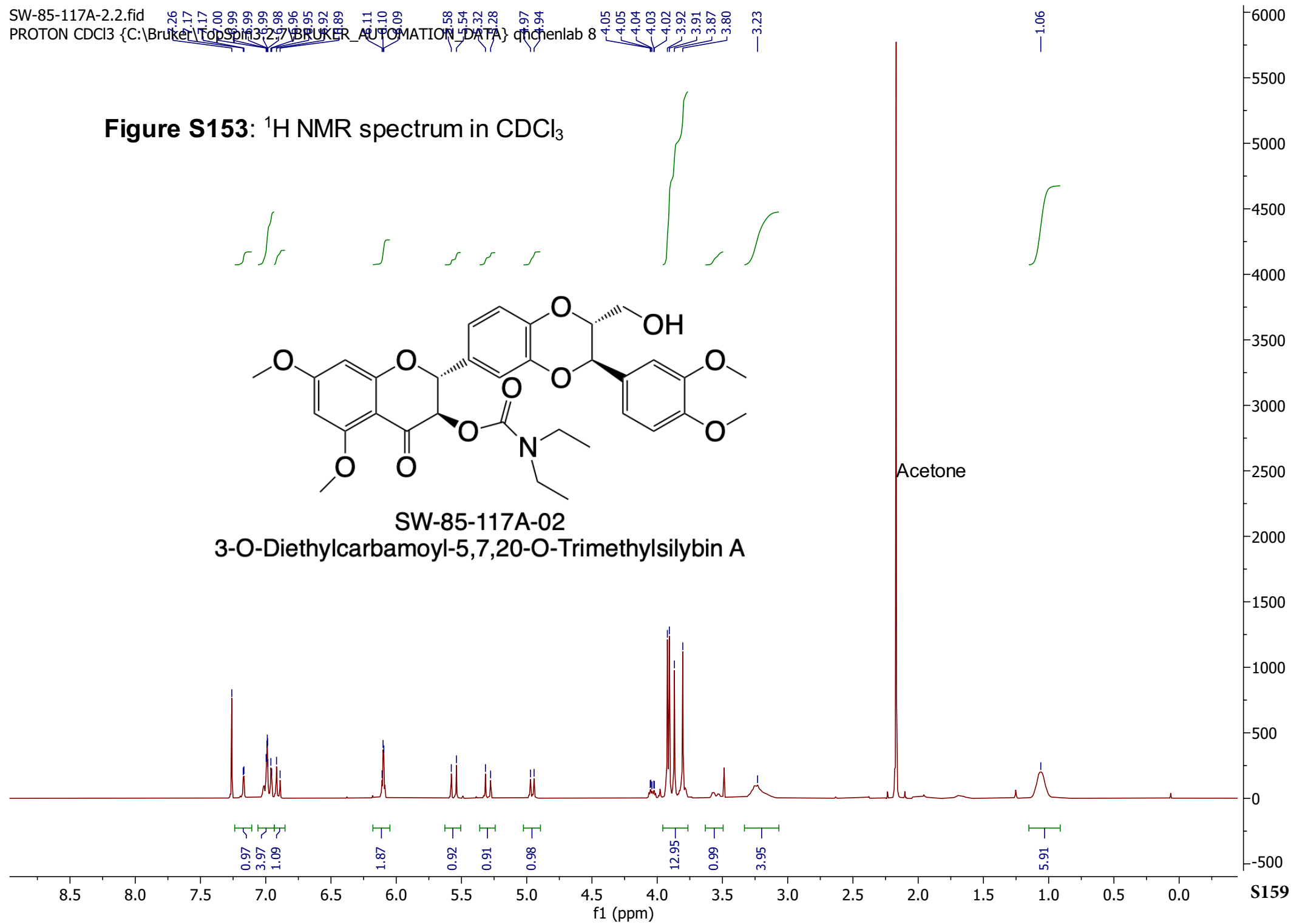
```

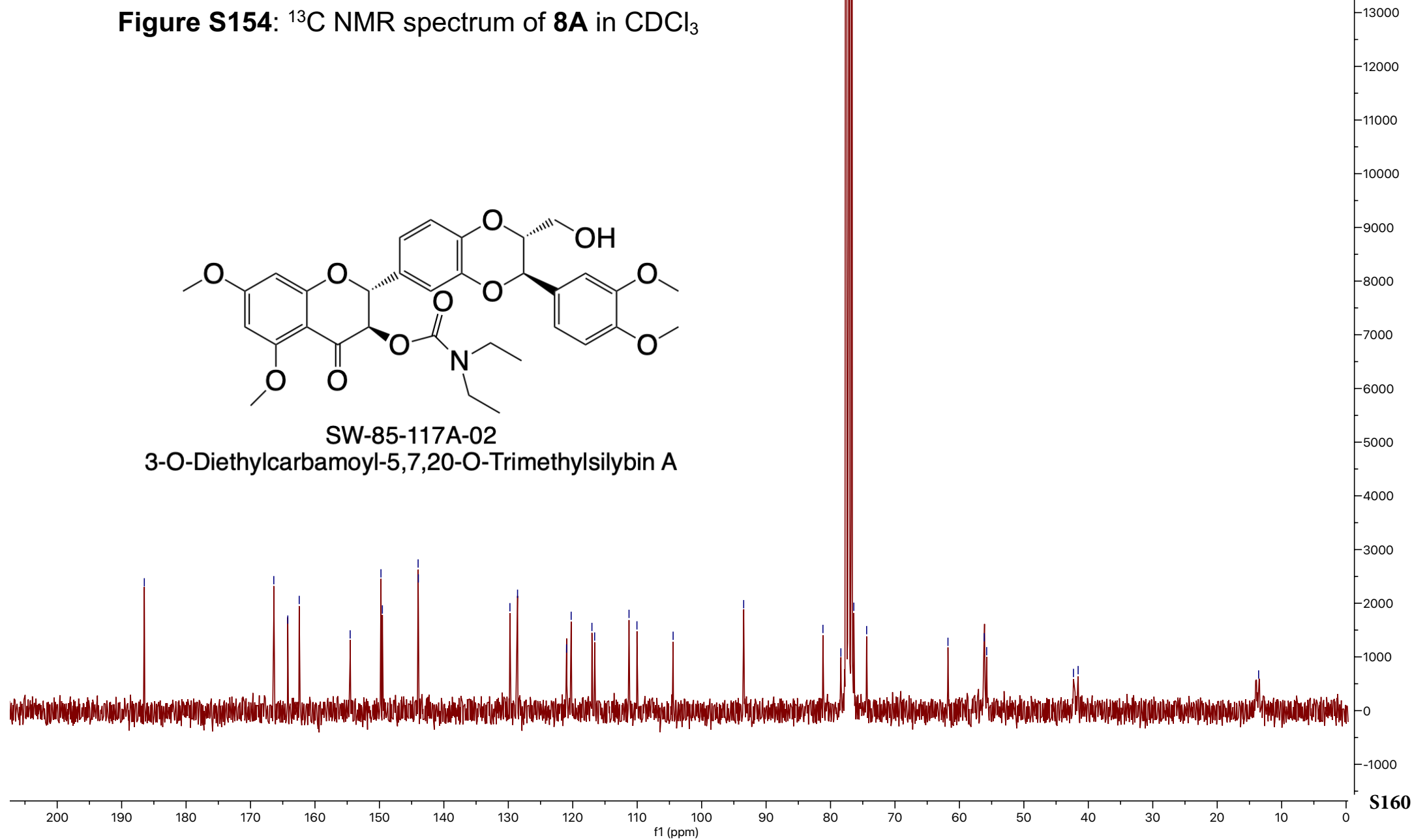
=====
*** End of Report ***
=====

```

Figure S152: HPLC chromatogram of 7B

Figure S153: ^1H NMR spectrum in CDCl_3





Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-117A-02	C33H37NO11	623.2367	624.2445	624.2440	-0.0005	-0.82

SW-85-117A-02 #2288-2355 RT: 12.23-12.58 AV: 68 NL: 3.38E8
T: FTMS + c NSI Full ms [120.0000-750.0000]

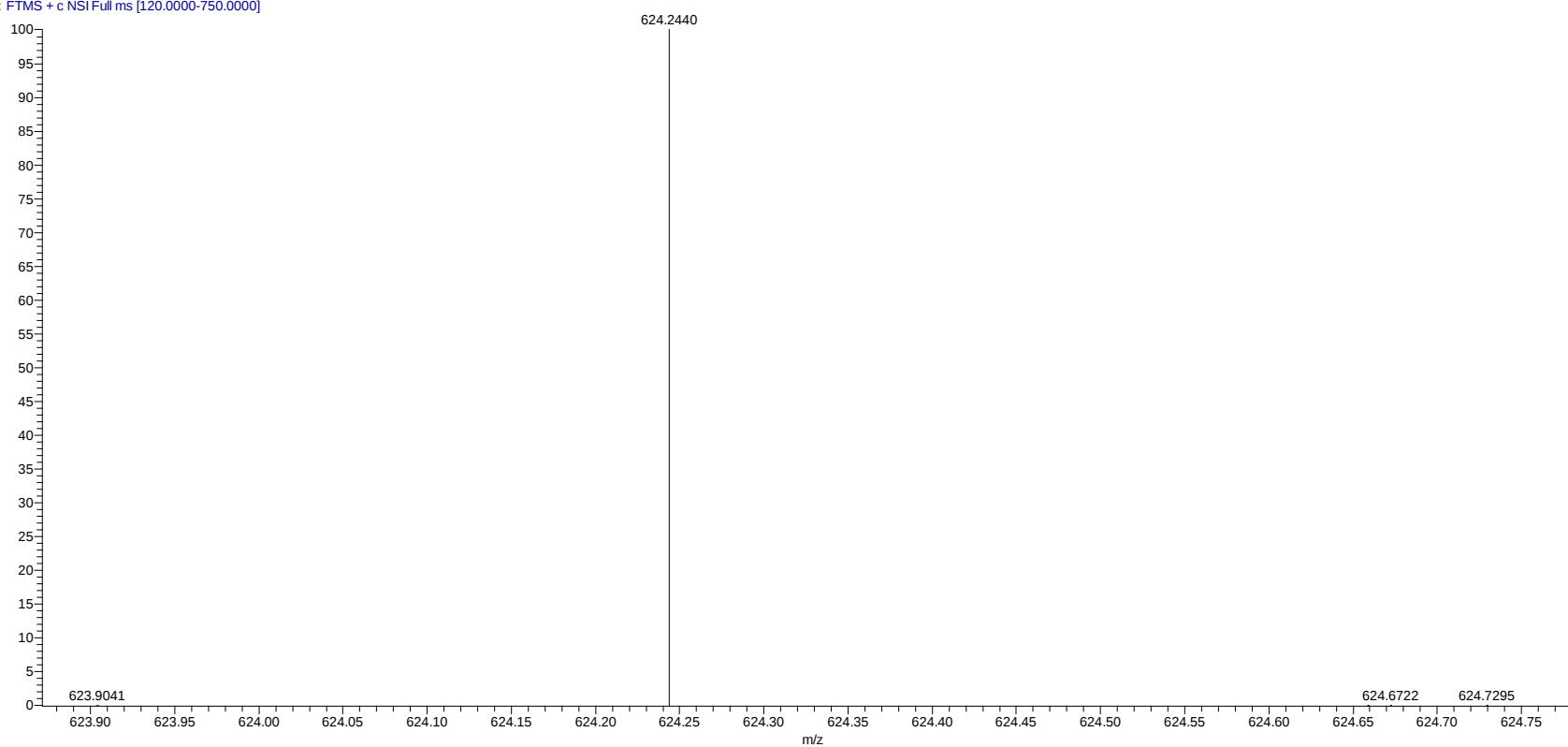
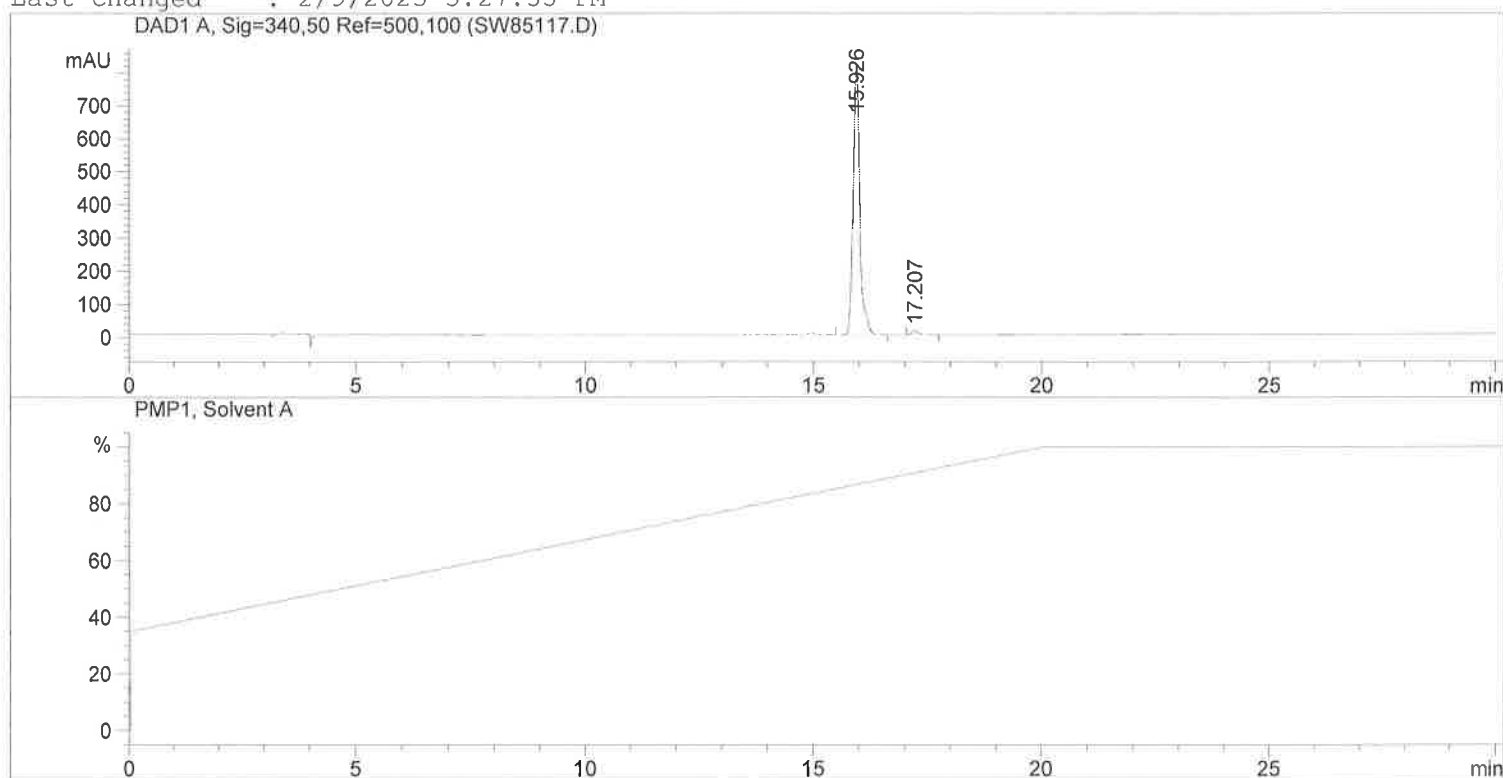


Figure S155: High resolution mass spectrum of **8A**

=====
Injection Date : 2/19/2023 12:58:40 PM
Sample Name : SW-85-117A-02
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 2/9/2023 3:27:35 PM

Location : Vial 1



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=500,100

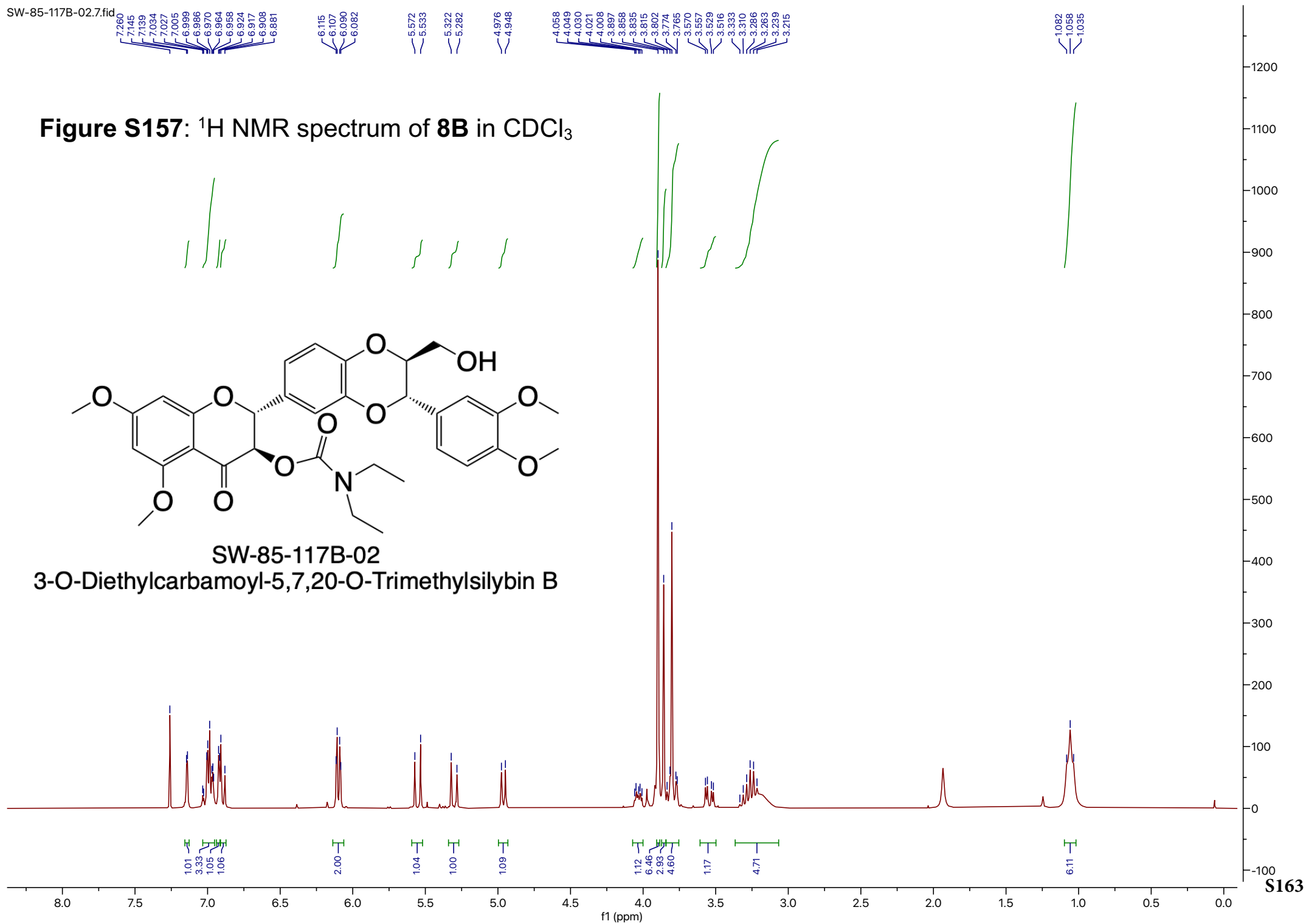
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.926	VP	0.1535	8262.76660	820.12885	98.5428
2	17.207	PP	0.1377	122.18180	12.98965	1.4572

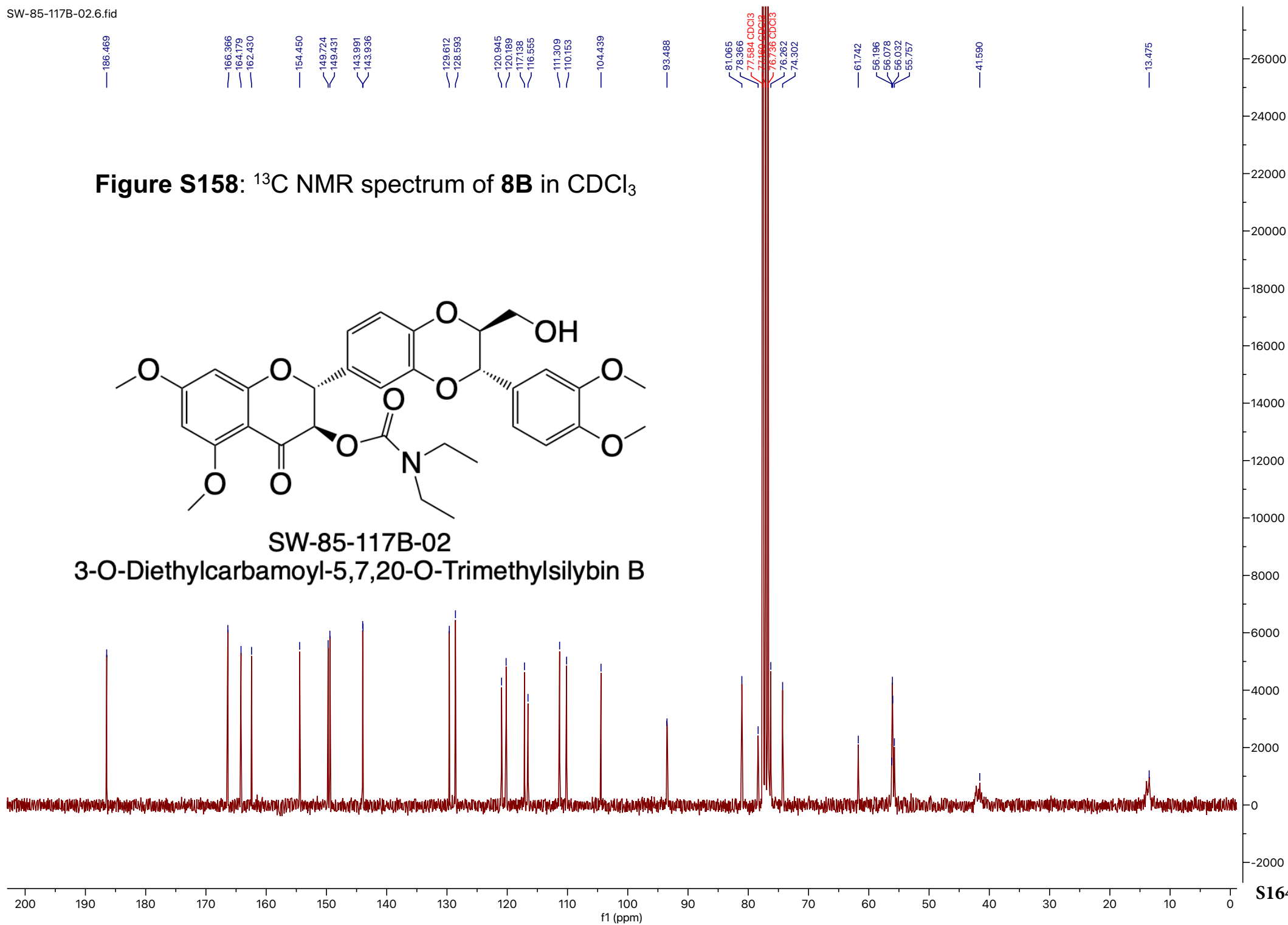
Totals : 8384.94840 833.11850

Results obtained with enhanced integrator!

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

Figure S156: HPLC chromatogram of 8A**S162**

Figure S157: ^1H NMR spectrum of **8B** in CDCl_3 



Sample Name	Mol Formula	MW	M+H	observed	delta	ppm
SW-85-117B-02	C33H37NO11	623.2367	624.2445	624.2441	-0.0004	-0.66

SW-85-117B-02 #1361-4306 RT: 7.52-24.43 AV: 2946 NL: 9.66E6
T: FTMS + c NSI Full ms [120.0000-750.0000]

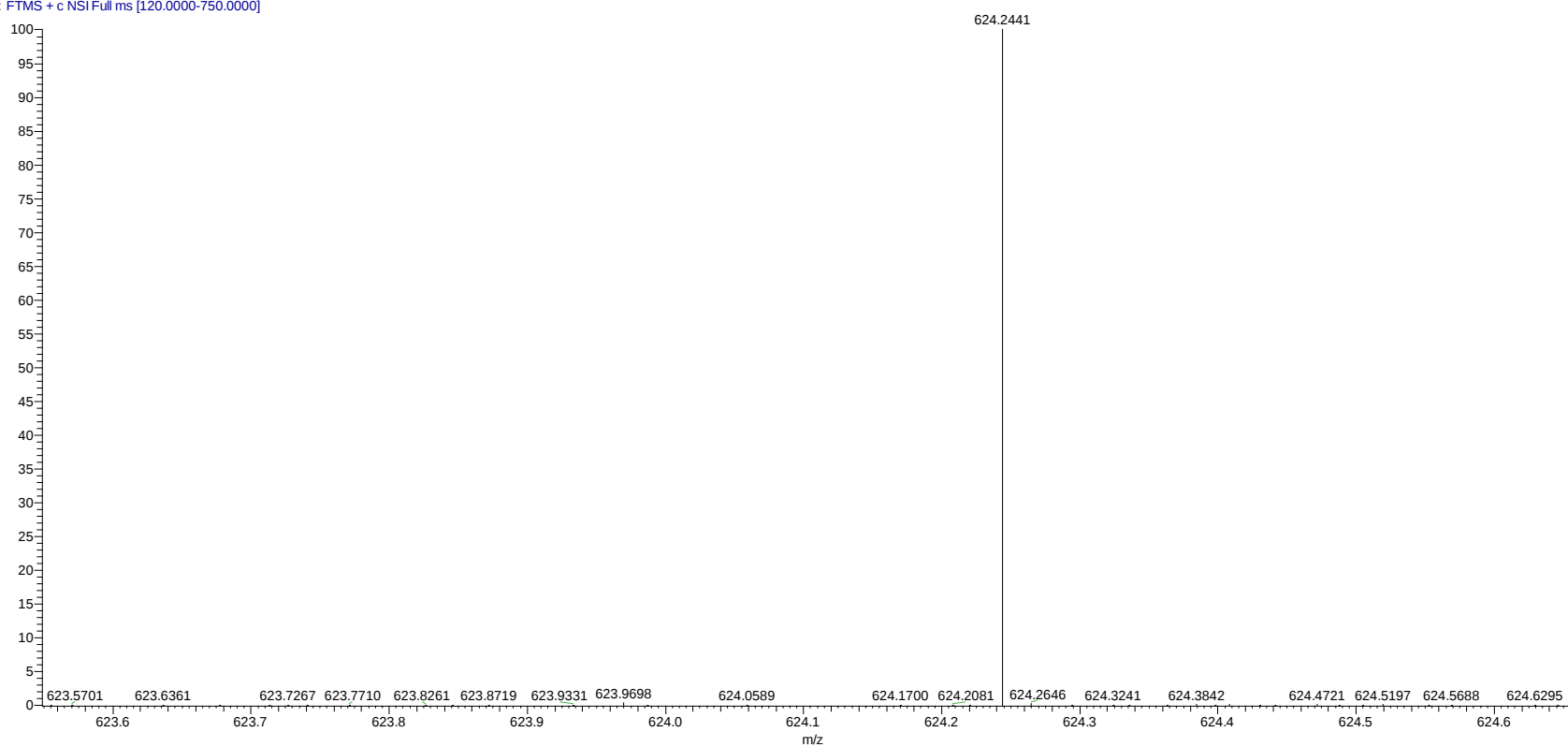
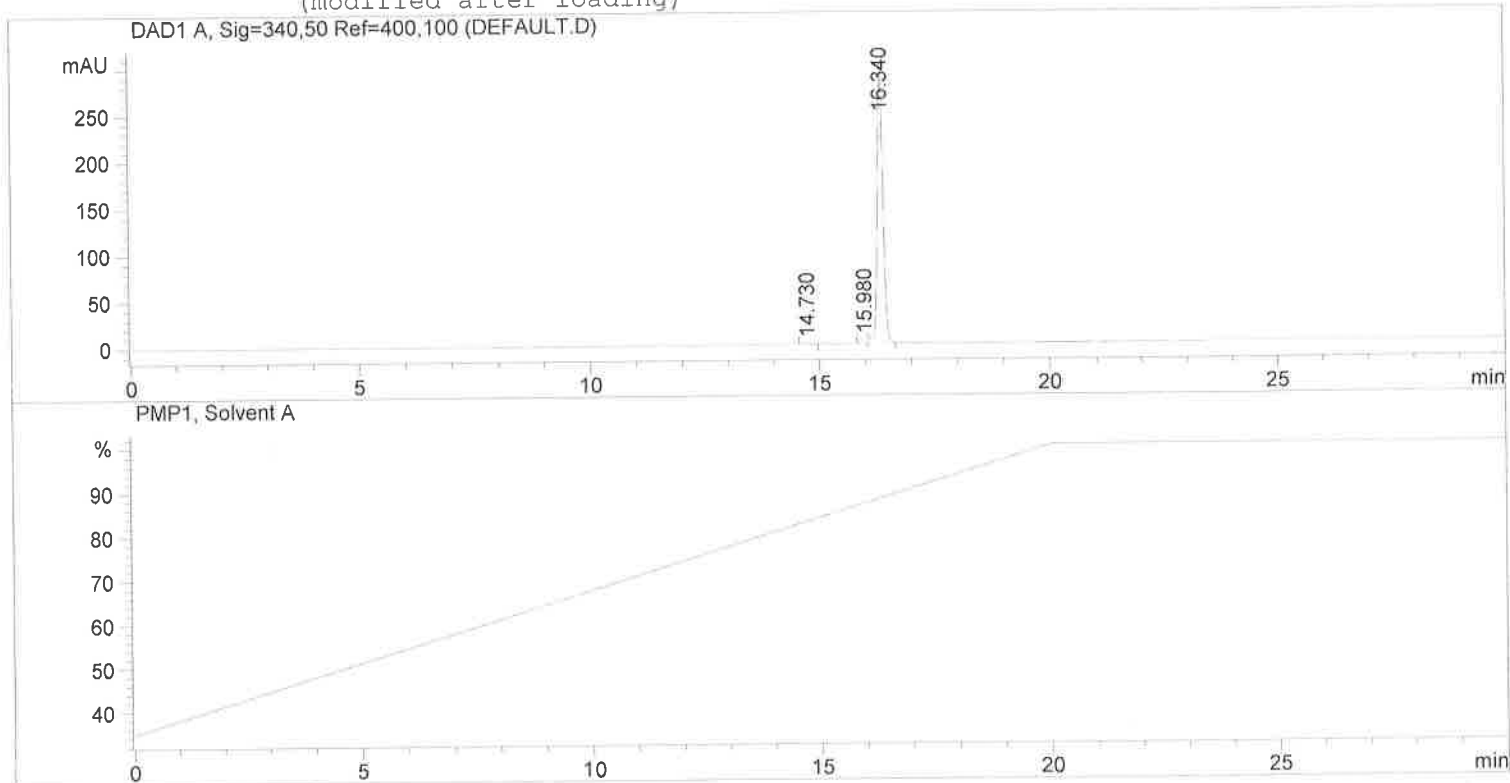


Figure S159: High resolution mass spectrum of **8B**

Injection Date : 4/17/2022 10:57:16 AM
Sample Name : SW-85-117B-02 Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/16/2022 9:32:45 AM
(modified after loading)



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

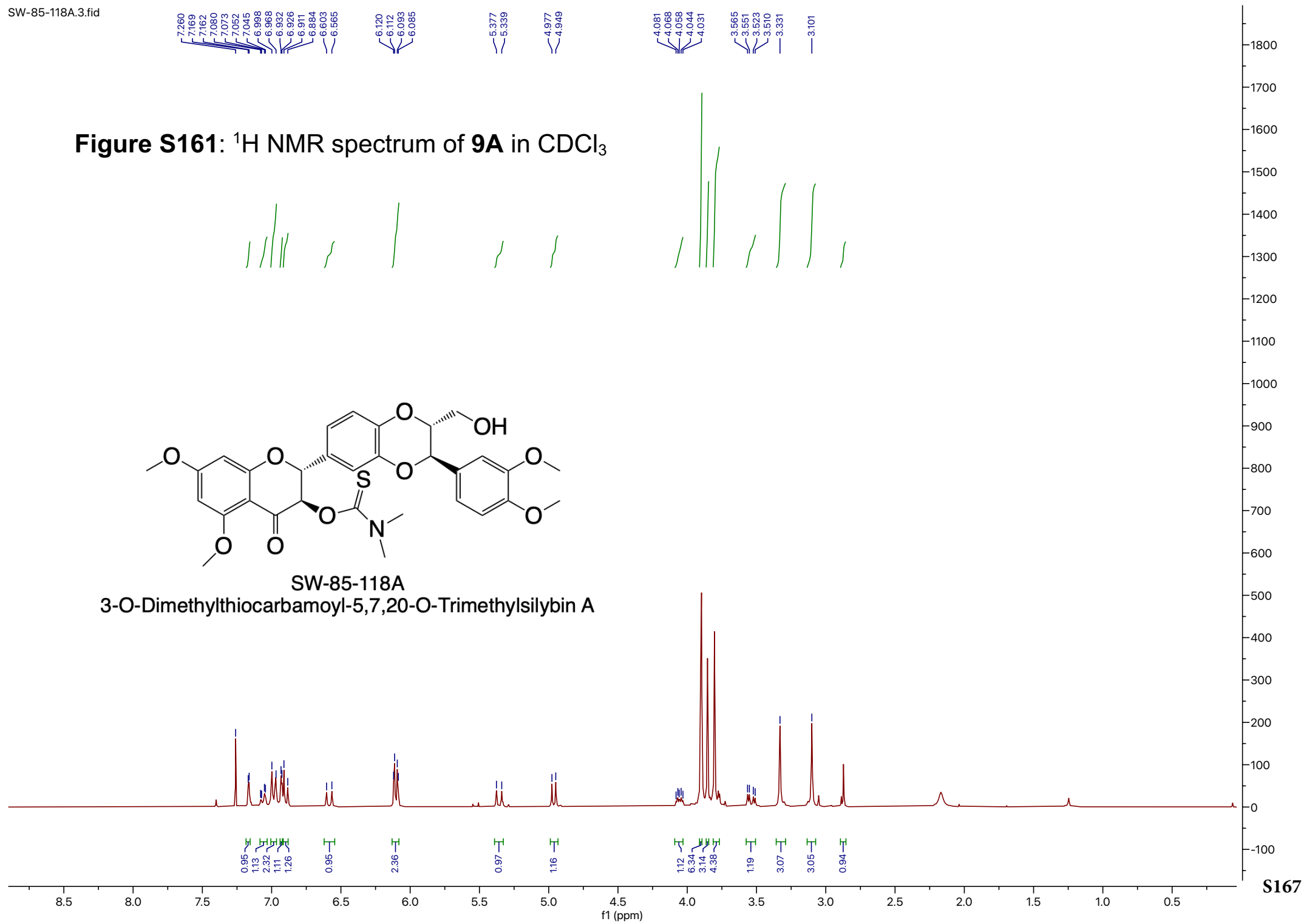
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.730	BP	0.1469	11.30698	1.18976	0.4261
2	15.980	BV	0.1140	37.02183	4.90998	1.3952
3	16.340	VB	0.1320	2605.26831	303.84845	98.1787

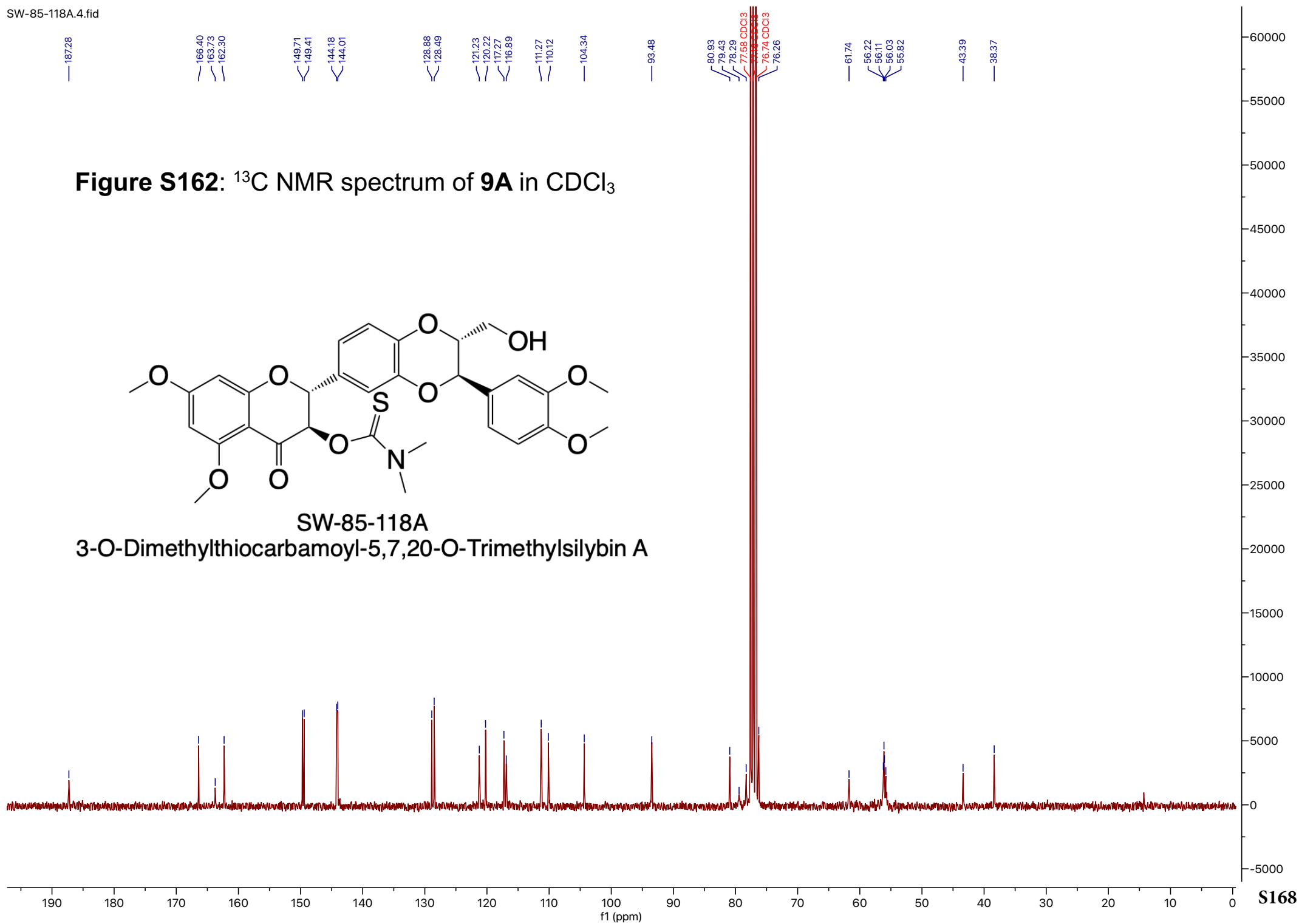
Totals : 2653.59712 309.94818

Results obtained with enhanced integrator!

*** End of Report ***

Figure S160: HPLC chromatogram of 8B





Sample Name	Mol Formula	MW	M+H	observed	delta	ppm
SW-85-118A	C31H33NO10S	611.1826	612.1904	612.1902	-0.0002	-0.26

SW-85-118A #2271-2393 RT: 12.14-12.81 AV: 123 NL: 4.46E7
T: FTMS + c NSI Full ms [120.0000-750.0000]

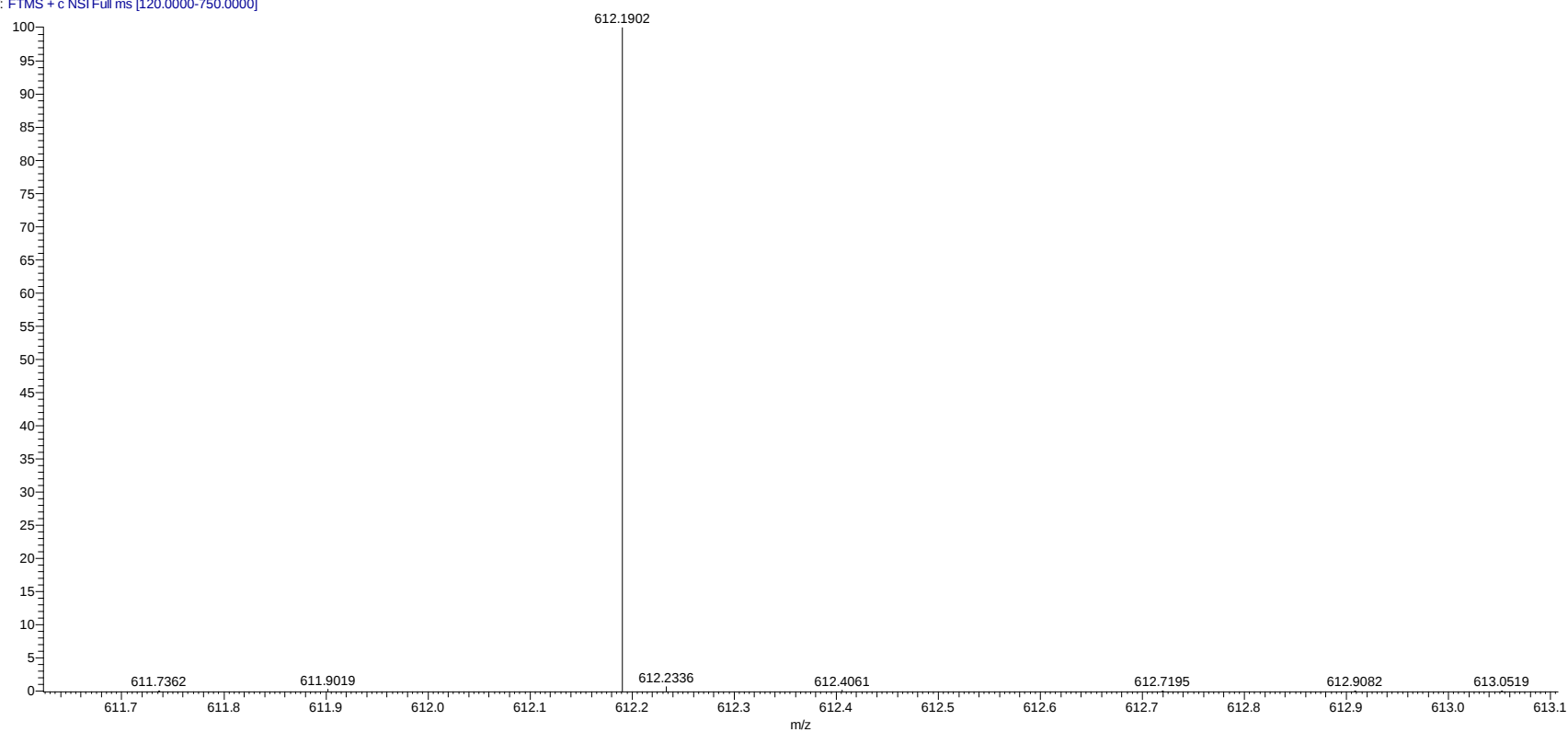
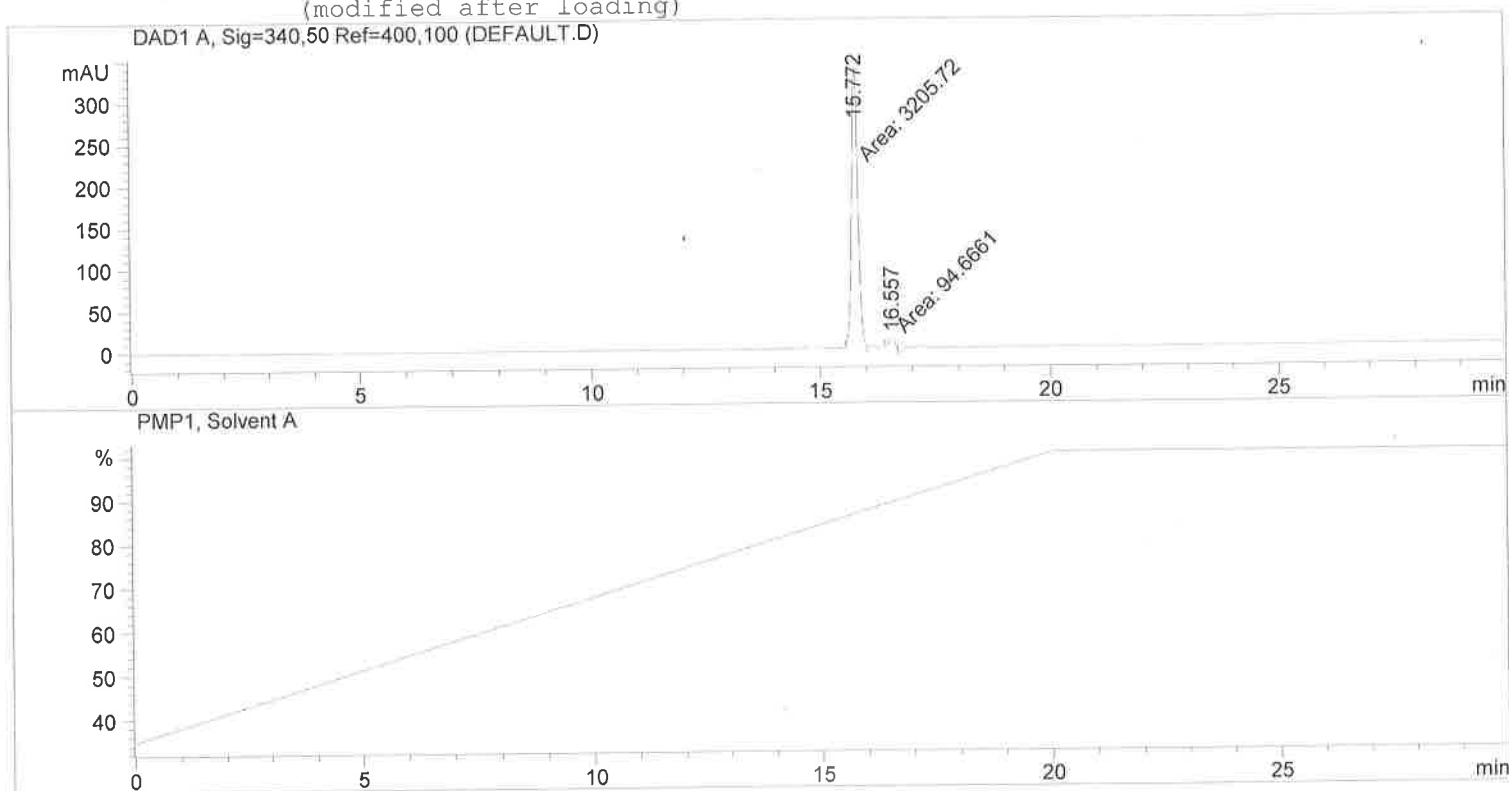


Figure S163: High resolution mass spectrum of **9A**

Injection Date : 4/20/2022 11:22:58 AM
Sample Name : SW-85-118A Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/19/2022 12:01:10 PM
(modified after loading)



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

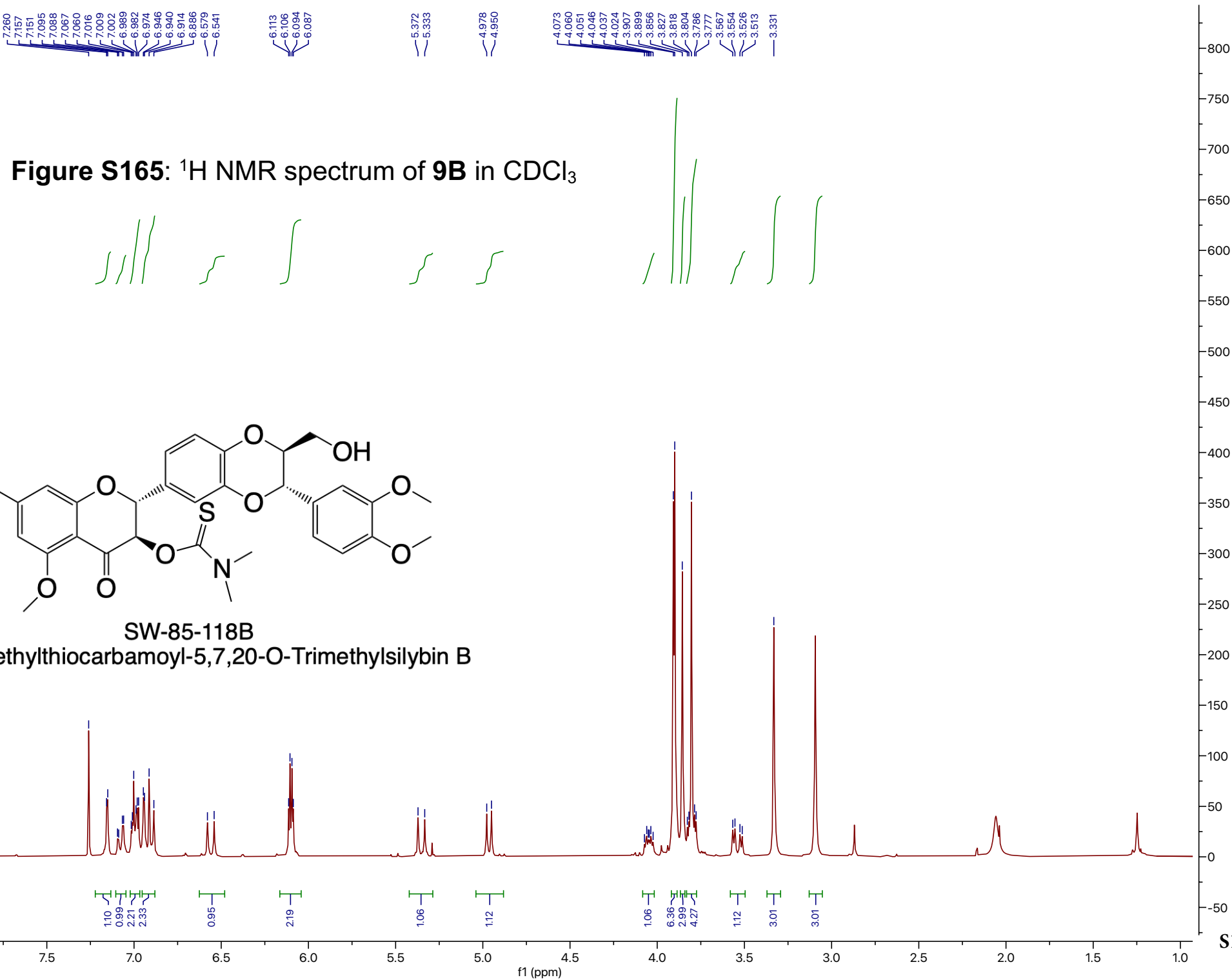
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.772	MM	0.1593	3205.72046	335.43436	97.1317
2	16.557	MM	0.1436	94.66611	10.98537	2.8683

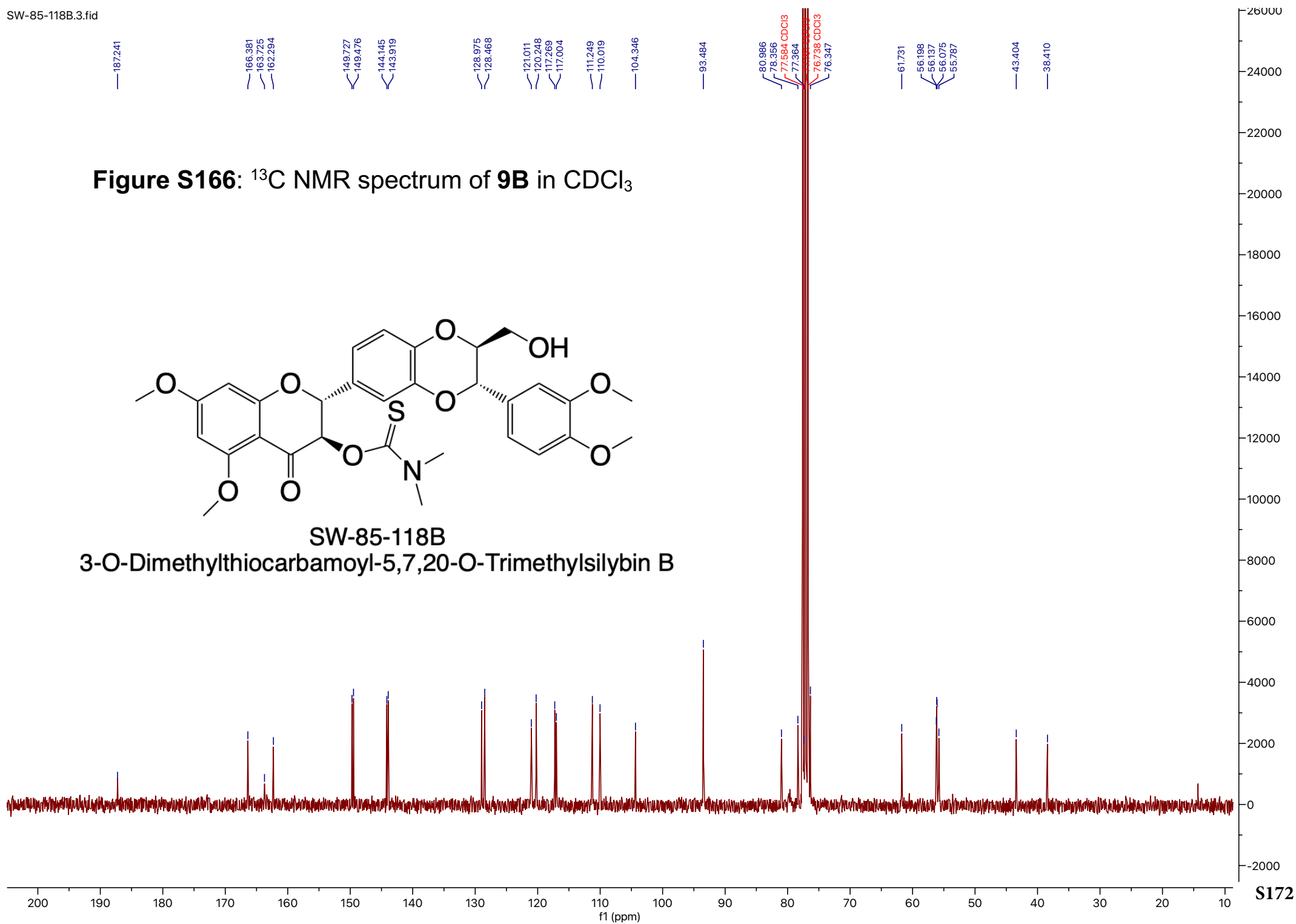
Totals : 3300.38657 346.41973

Results obtained with enhanced integrator!

*** End of Report ***

Figure S164: HPLC chromatogram of 9A





Sample Name	Mol Fomula	MW	M+H	observed	delta	ppm
SW-85-118B	C31H33NO10S	611.1826	612.1904	612.1904	0.0000	0.00

SW-85-118B #1481-3988 RT: 8.19-22.07 AV: 2508 NL: 8.42E6
T: FTMS + c NSI Full ms [120.0000-750.0000]

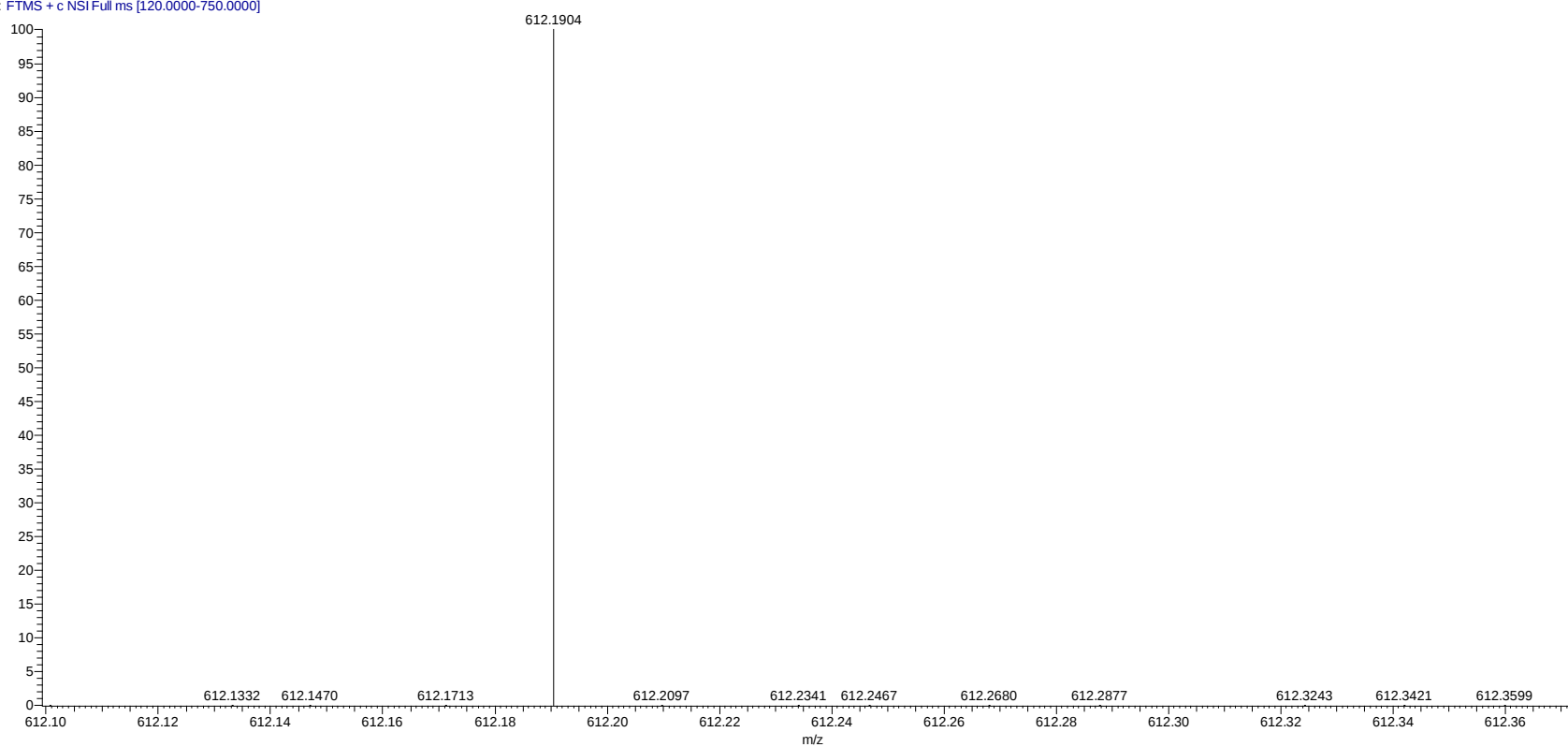
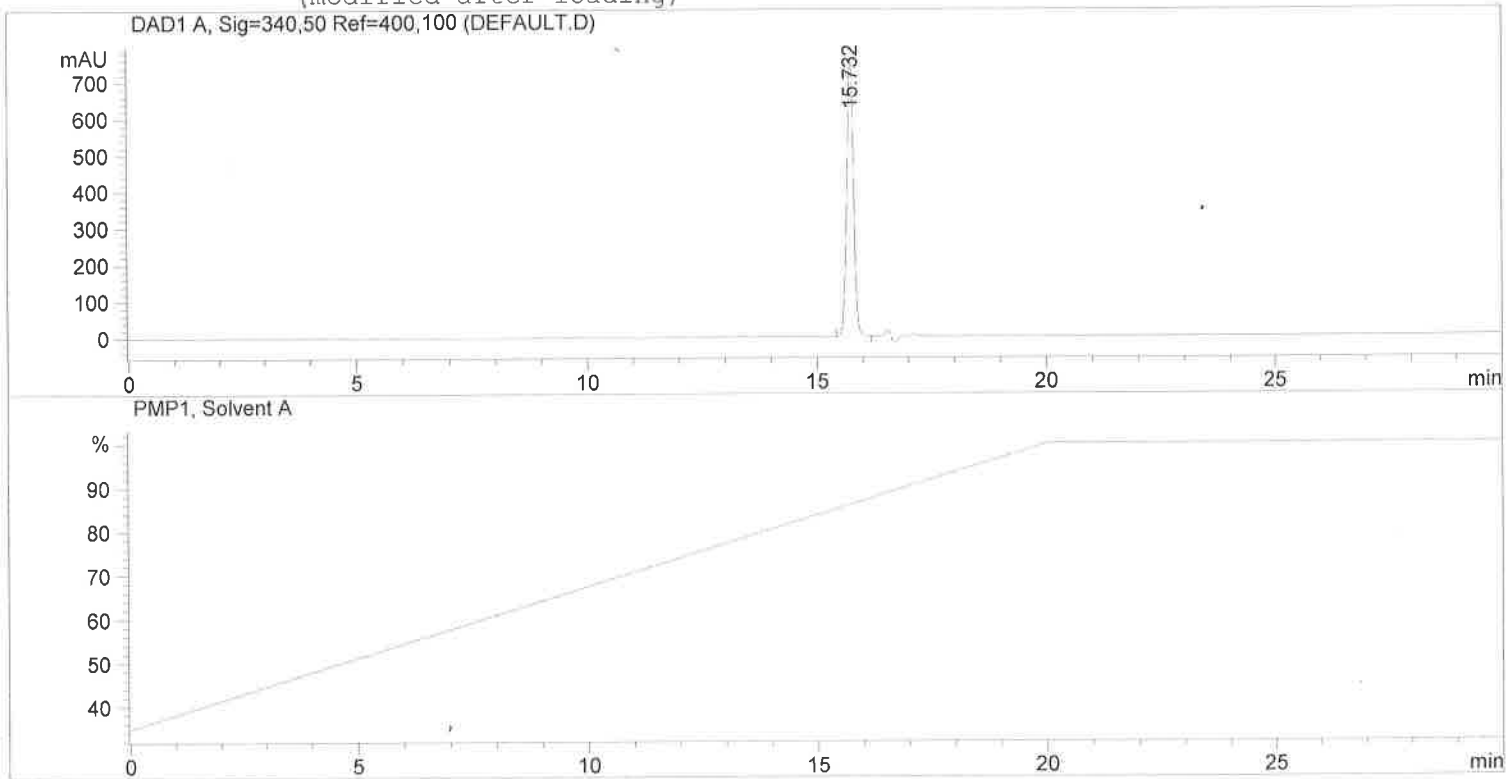


Figure S167: High resolution mass spectrum of **9B**

=====
Injection Date : 4/19/2022 3:34:01 PM
Sample Name : SW-85-118B Location : Vial 1
Acq. Operator :
Method : C:\HPCHEM\1\METHODS\JNP2015.M
Last changed : 4/19/2022 12:01:10 PM
(modified after loading)
=====



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

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: DAD1 A, Sig=340,50 Ref=400,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.732	BB	0.1616	8117.97949	766.30164	100.0000

Totals : 8117.97949 766.30164

Results obtained with enhanced integrator!

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

Figure S168: HPLC Chromatogram of 9B

Figure S169: COSY spectrum of **5** in CDCl₃

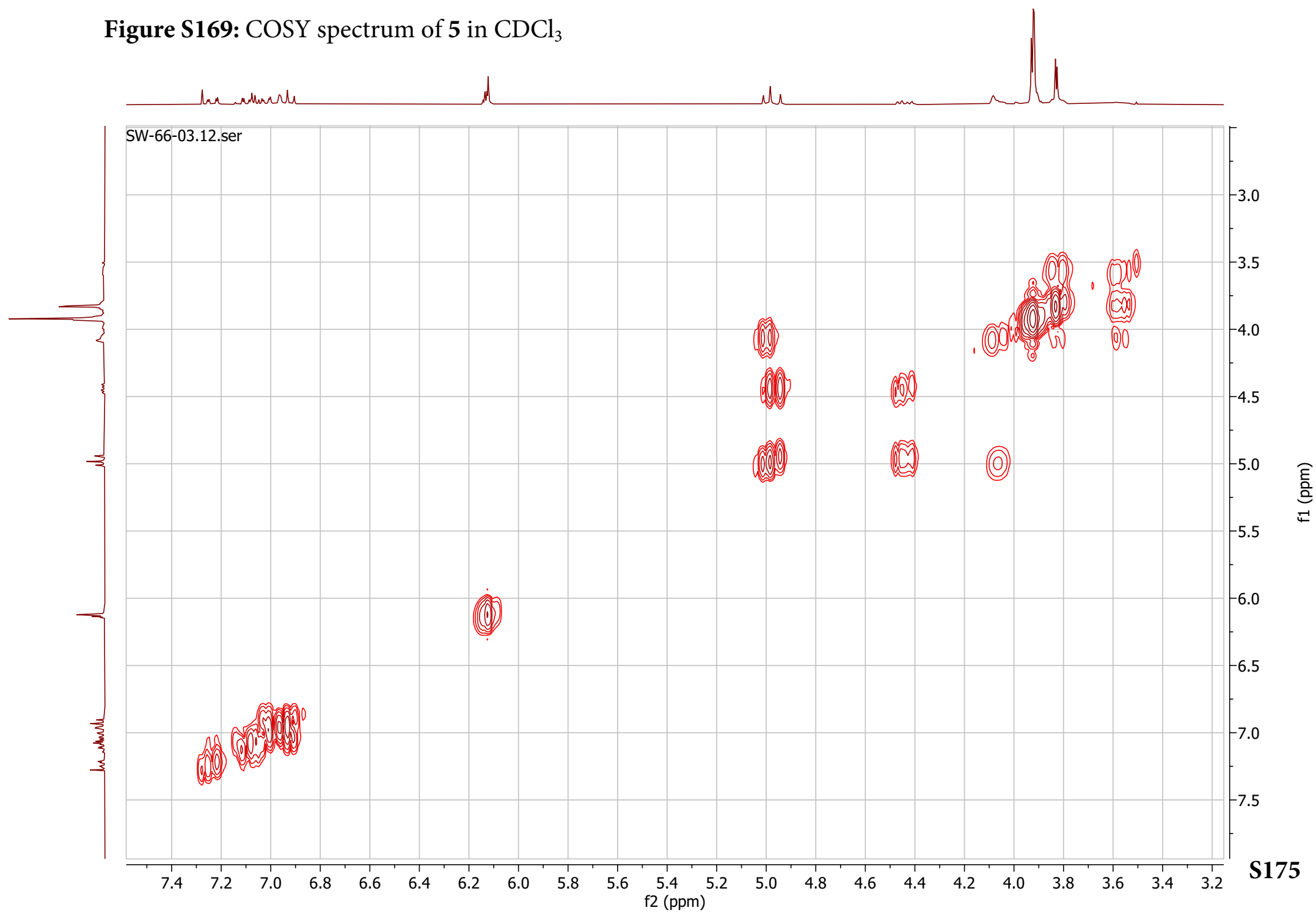


Figure S170: HMQC spectrum of **5** in CDCl₃

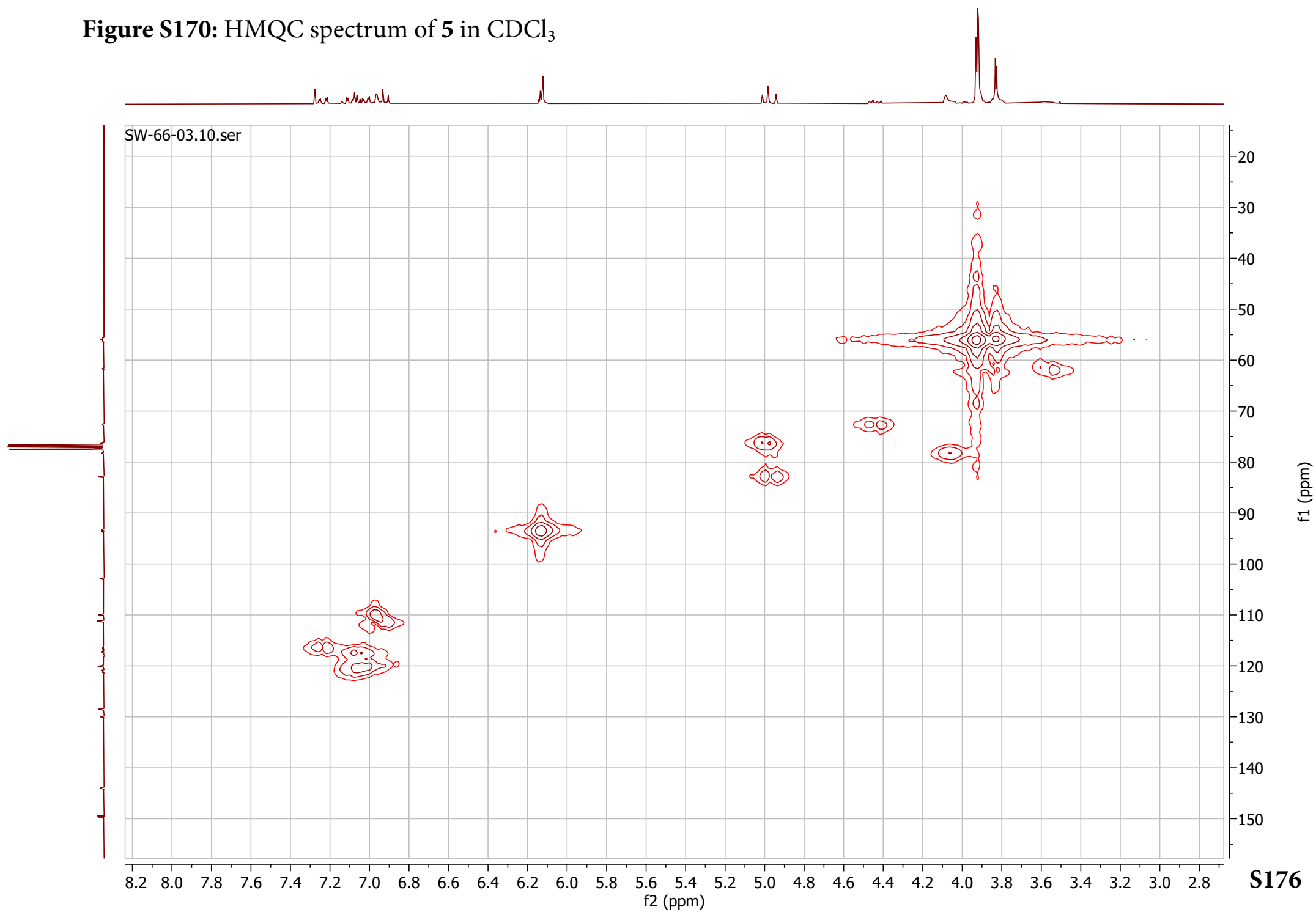


Figure S171: HMBC spectrum of **5** in CDCl₃

