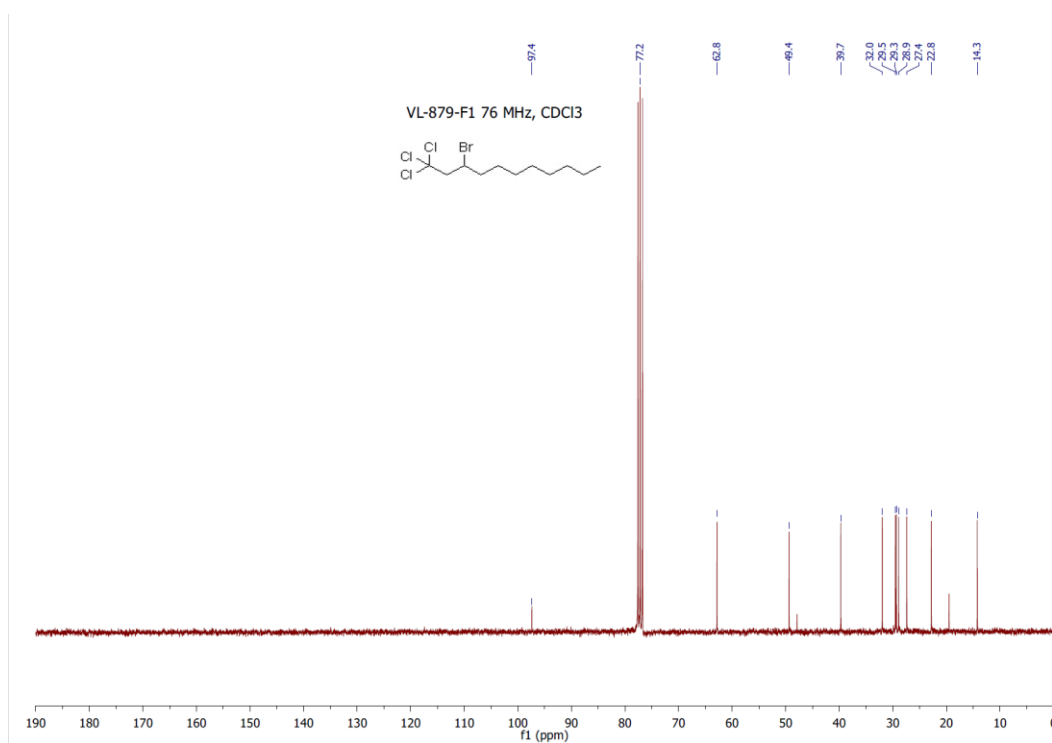
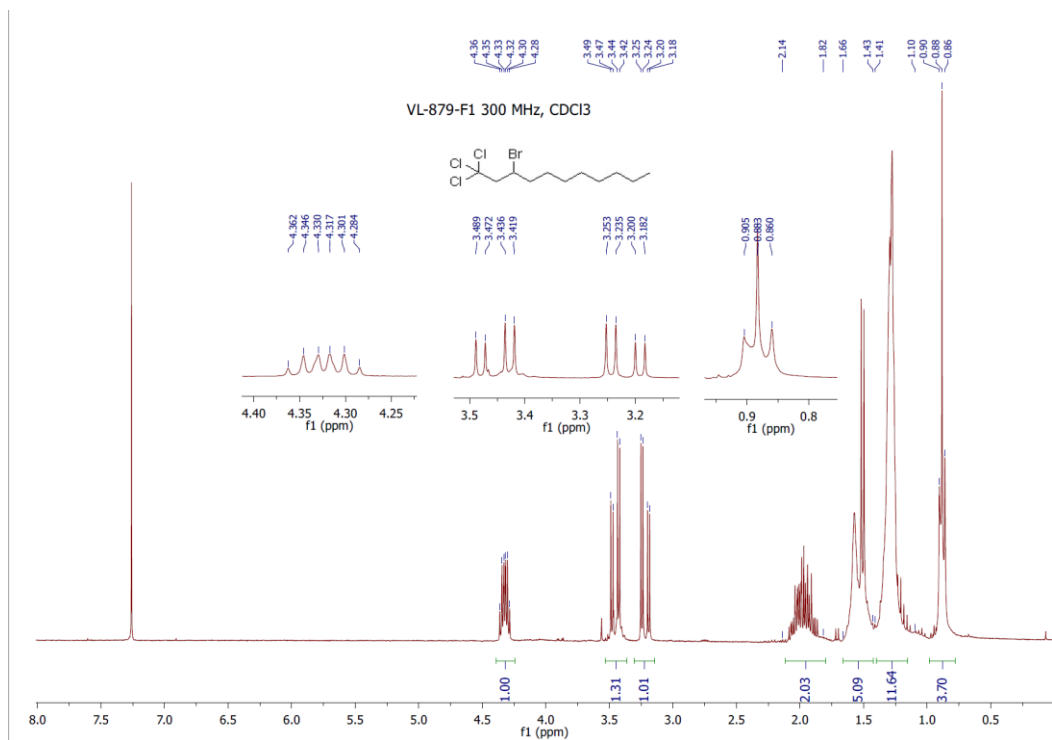
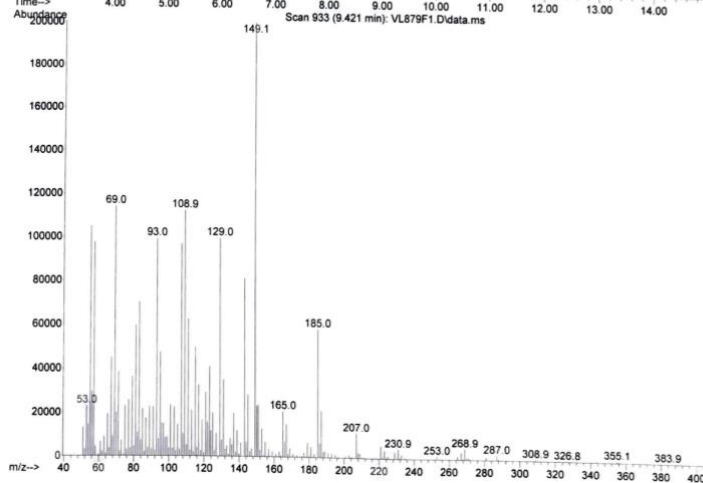
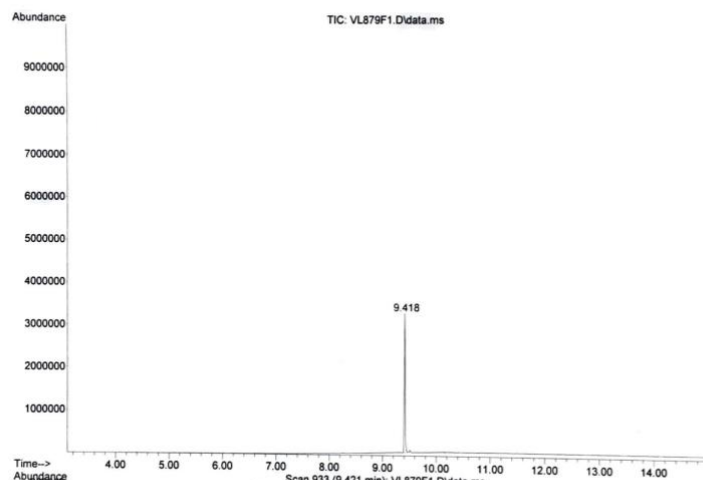


Chemical Formula:  $C_{11}H_{20}BrCl_3$

Molecular Weight: 338,54



File : D:\DataMS\2017\08-2017\25082017\VL879F1.D  
 Operator : VL  
 Acquired : 25 Aug 2017 14:36 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name : VL879F1  
 Misc Info :  
 Vial Number: 12



# Area Percent Report

Data Path : D:\DataMS\2017\08-2017\25082017\  
 Data File : VL879F1.D  
 Acq On : 25 Aug 2017 14:36  
 Operator : VL  
 Sample : VL879F1  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

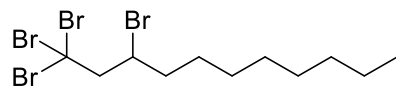
Method : C:\msdchem\1\methods\MSWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL879F1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.415	928	932	940	M	3263206	37874422	100.00%	98.492%
2	9.511	945	946	949	M2	53772	579768	1.53%	1.508%

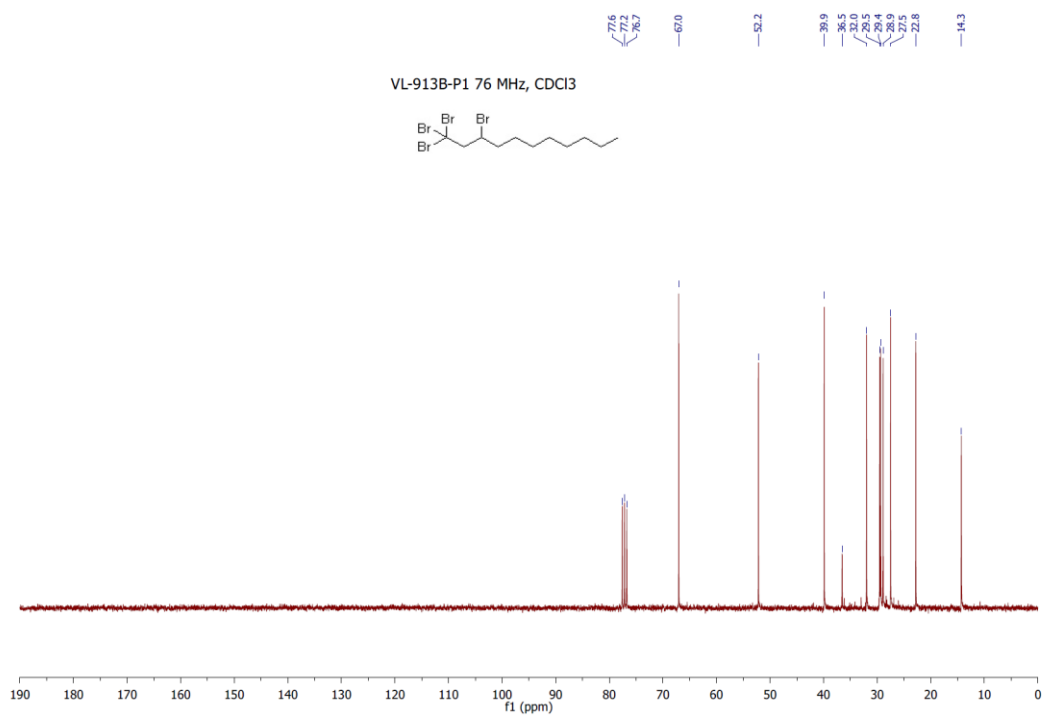
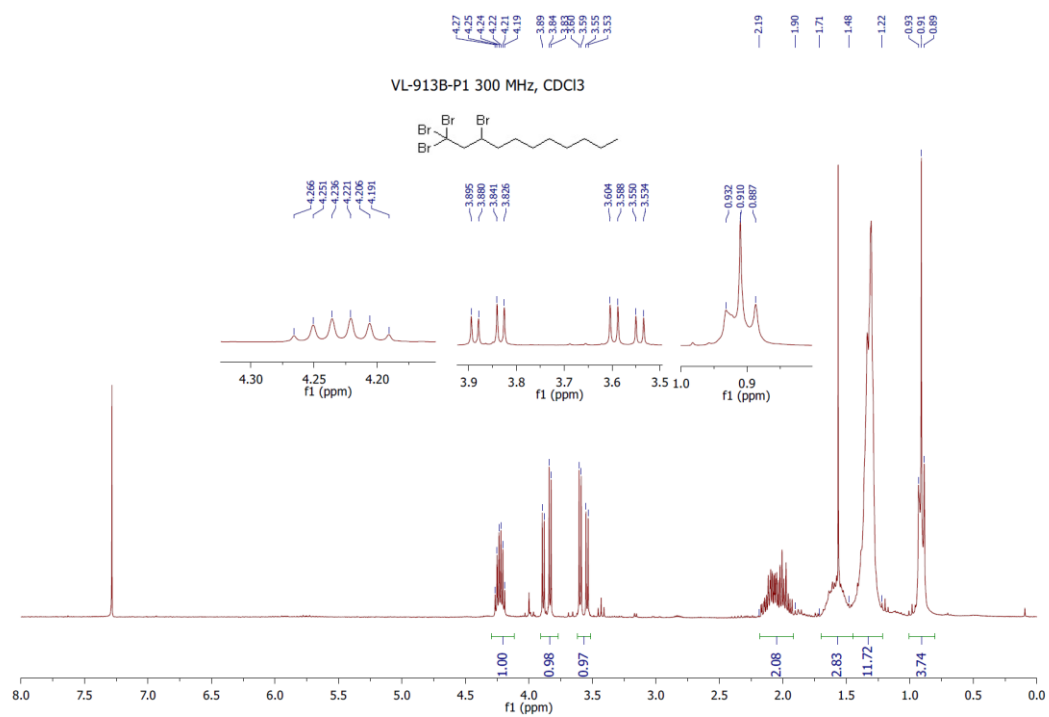
Sum of corrected areas: 38454190

hexadecenal.M Mon Oct 12 17:23:26 2020



Chemical Formula:  $C_{11}H_{20}Br_4$

Molecular Weight: 471,90



File :D:\DataMS\2017\07-2017\20-07-2017\VL913B-P1-L.D  
 Operator : VL  
 Acquired : 21 Jul 2017 4:26 using AcqMethod PDTLOURD.M  
 Instrument : 7890 5975  
 Sample Name: VL913B-P1  
 Misc Info :  
 Vial Number: 25

# Area Percent Report

Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
 Data File : VL913B-P1-L.D  
 Acq On : 21 Jul 2017 4:26  
 Operator : VL  
 Sample : VL913B-P1  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

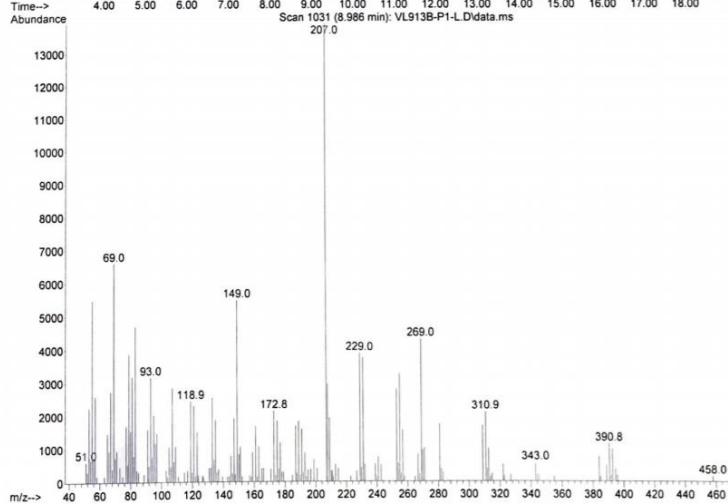
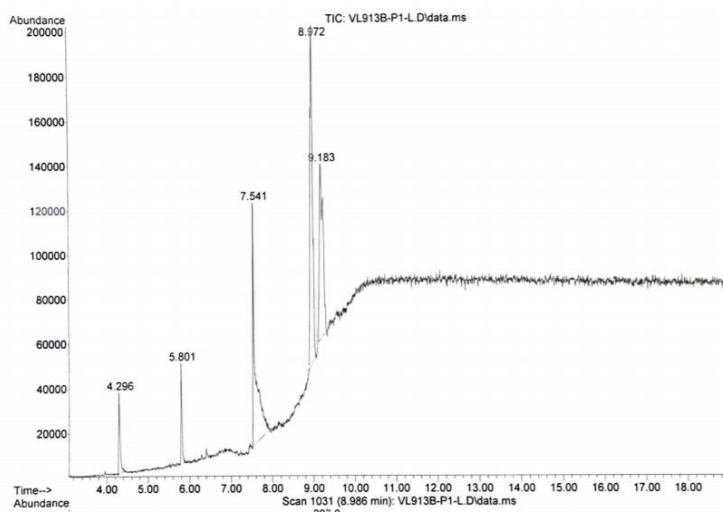
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL913B-P1-L.D\data.ms

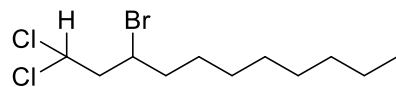
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.296	206	211	233	M	37285	814321	12.88%	4.664%
2	5.801	467	474	497	M	45706	788388	12.47%	4.516%
3	7.541	771	778	850	M3	114109	4721303	74.69%	27.042%
4	8.972	1014	1028	1042	M4	153591	6320921	100.00%	36.203%
5	9.183	1051	1065	1102	M8	79145	4814505	76.17%	27.575%

Sum of corrected areas: 17459439

hexadecenal.M Mon Oct 12 17:19:55 2020

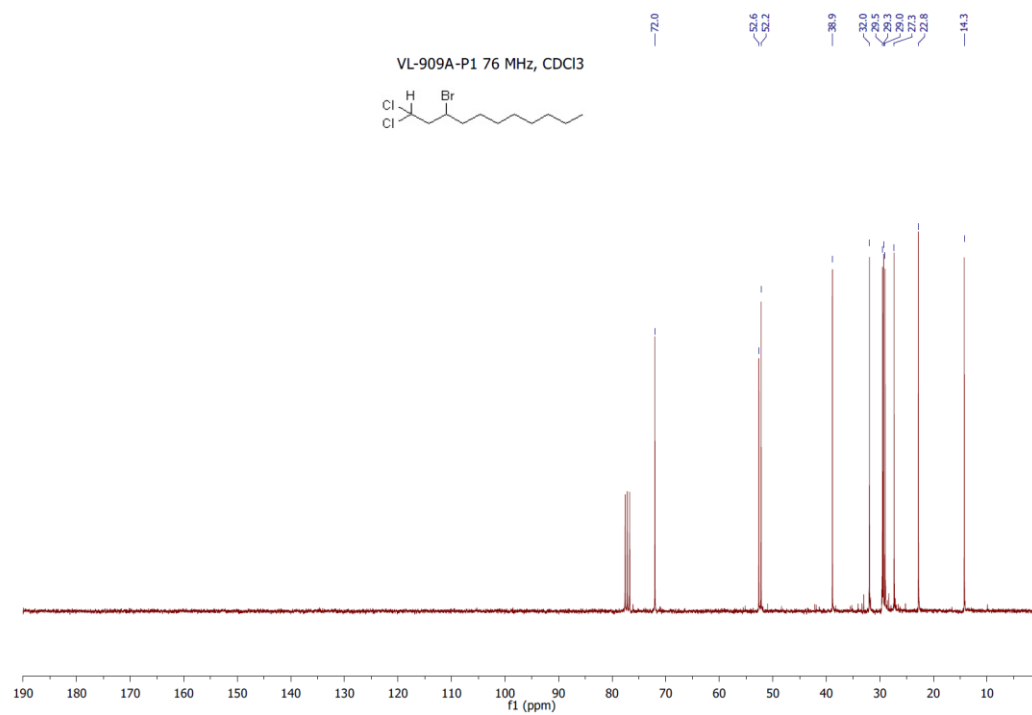
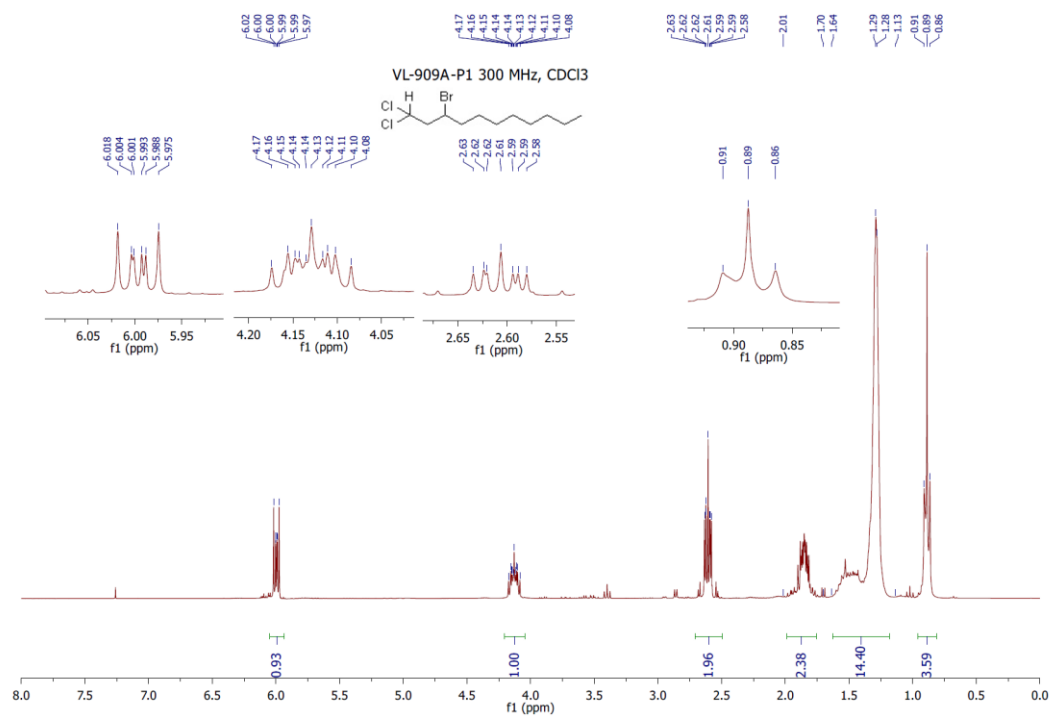






Chemical Formula: C<sub>11</sub>H<sub>21</sub>BrCl<sub>2</sub>

Molecular Weight: 304,09



File :D:\DataMS\2017\07-2017\20-07-2017\VL909A-P1.D  
 Operator : VL  
 Acquired : 20 Jul 2017 17:49 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL909A-P1  
 Misc Info :  
 Vial Number: 11

# Area Percent Report

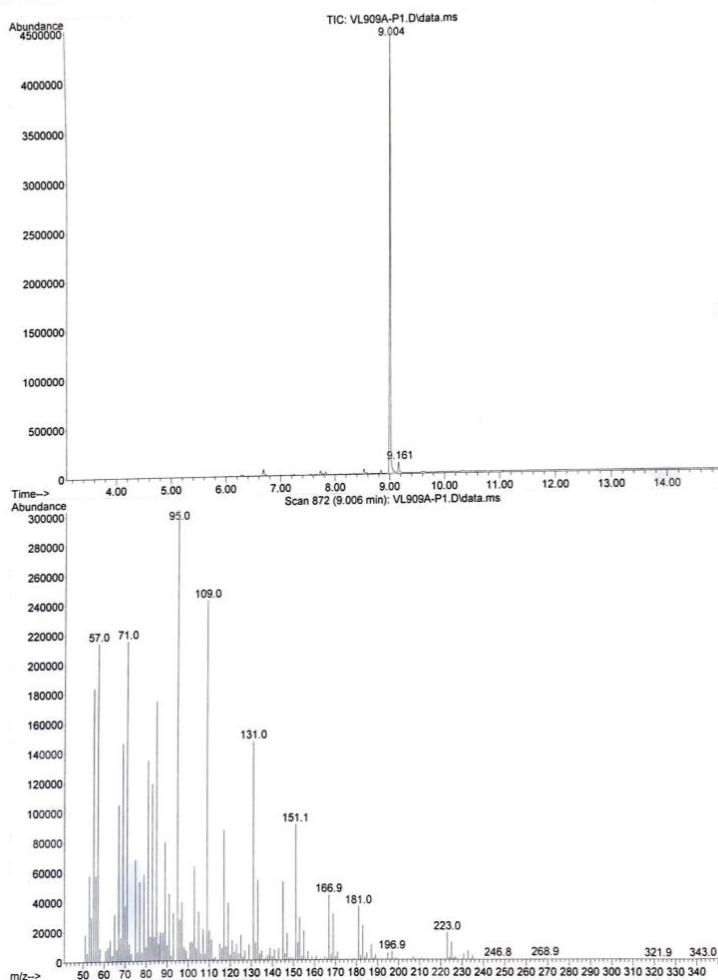
Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
 Data File : VL909A-P1.D  
 Acq On : 20 Jul 2017 17:49  
 Operator : VL  
 Sample : VL909A-P1  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1  
 Integration Parameters: autoint1.e  
 Integrator: ChemStation  
 Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL909A-P1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.004	863	872	890	BB	4408175	53399979	100.00%	97.415%
2	9.161	891	895	901	M	109359	1416754	2.65%	2.585%

Sum of corrected areas: 54816733

hexadecenal.M Tue Oct 13 11:11:27 2020

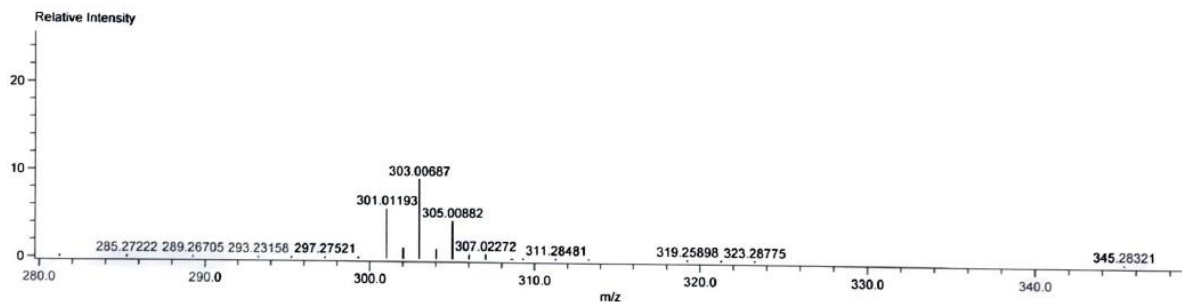


Data: CL-210720-VL909AP frais 3  
 Sample Name:  
 Description:  
 Ionization Mode: CI+  
 History Determine m/z[Peak Detect[Centroid,30,Area],Smooth[21]],Correct Base[],Average[MS[1]] 9.84..9.85)

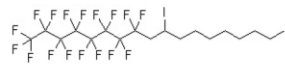
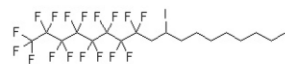
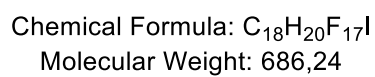
Acquired:12:00:00 AM  
 Operator:AccuTof  
 Mass Calibration data CAL-291118-CAL-EI-class4  
 Created:7/21/2020 5:47:57 PM  
 Created by:AccuTof

Charge number: 1  
 Element: <sup>12</sup>C: 0 .. 50, <sup>1</sup>H: 0 .. 100, <sup>10</sup>B: 0 .. 0, <sup>79</sup>Br: 1 .. 1, <sup>35</sup>Cl: 2 .. 2, <sup>16</sup>O: 0 .. 0  
 Tolerance: 50.00(ppm)

Unsaturation Number:-1000.0 .. 2000.0 (Fraction Both)



Mass	Intensity	Calc. Mass	Mass Difference (ppm)	Possible Formula	Unsaturation Number
301.01193	22574.81	301.01254	-2.03	<sup>12</sup> C <sub>11</sub> <sup>1</sup> H <sub>26</sub> <sup>79</sup> Br <sub>1</sub> <sup>35</sup> Cl <sub>2</sub>	0.5





File : D:\DataMS\2017\07-2017\20-07-2017\VL909D-P1.D  
 Operator : VL  
 Acquired : 20 Jul 2017 22:42 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL909D-P1  
 Misc Info :  
 Vial Number: 27

Area Percent Report

Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
 Data File : VL909D-P1.D  
 Acq On : 20 Jul 2017 22:42  
 Operator : VL  
 Sample : VL909D-P1  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

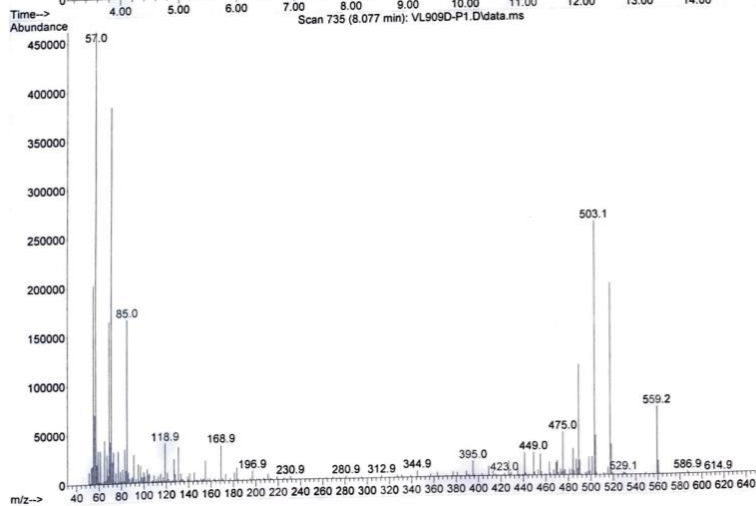
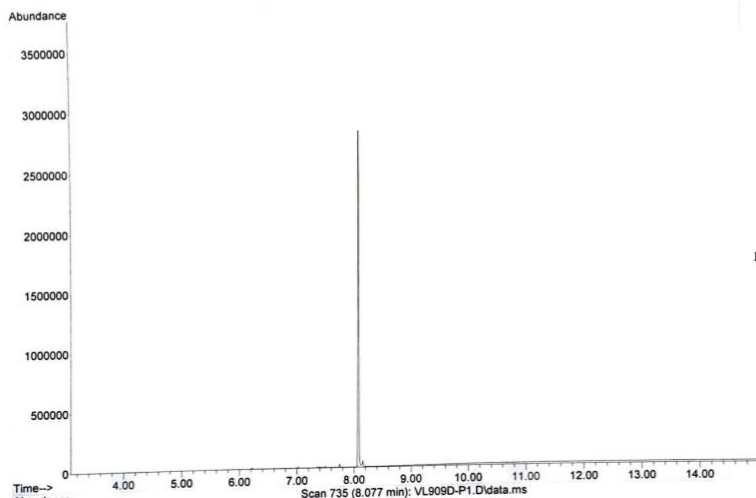
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

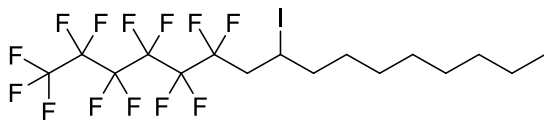
Signal : TIC: VL909D-P1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.074	731	735	743	M	3927605	39640188	100.00%	100.000%

Sum of corrected areas: 39640188

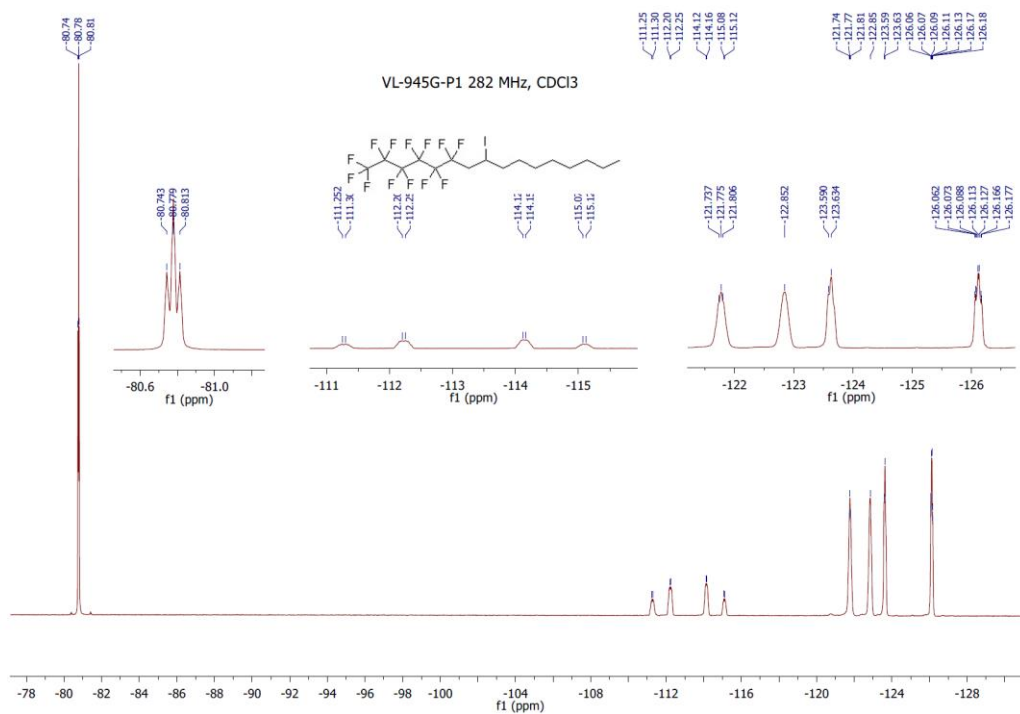
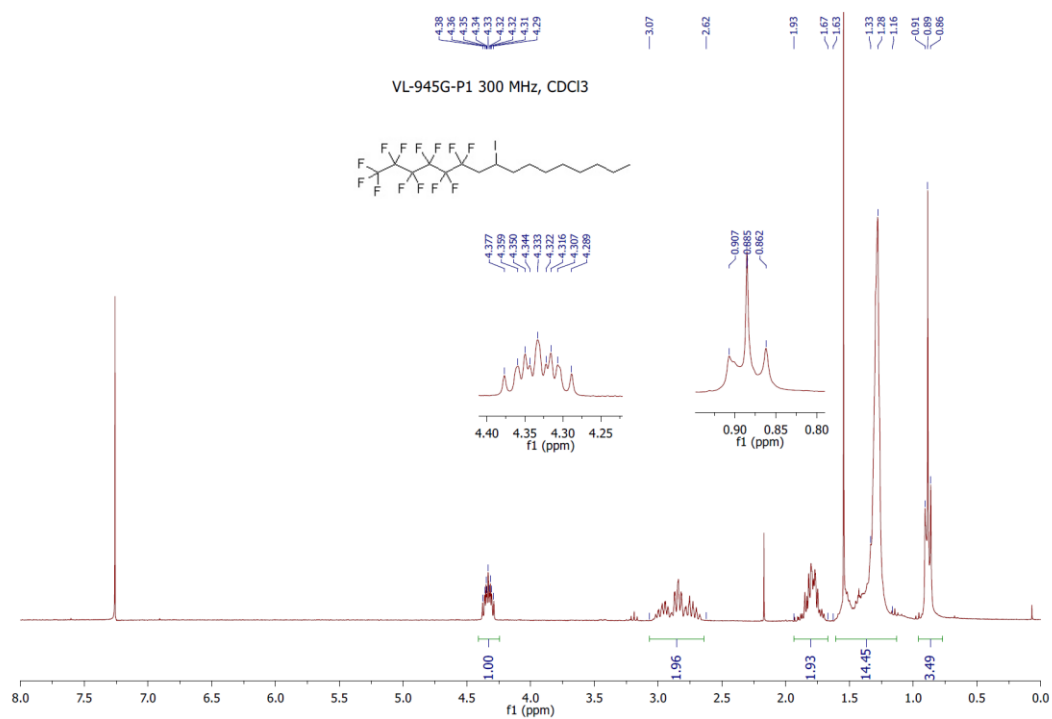
hexadecenal.M Tue Oct 13 11:12:36 2020

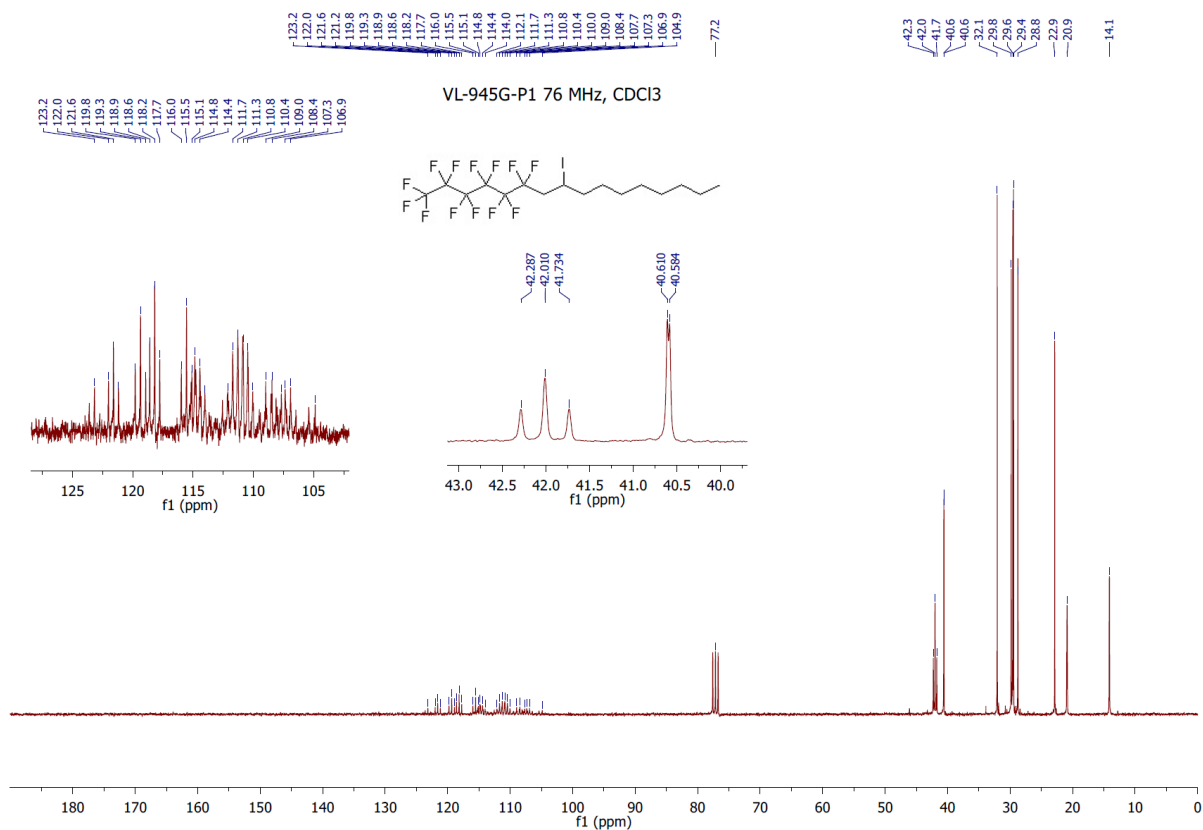




Chemical Formula:  $C_{16}H_{20}F_{13}I$

Molecular Weight: 586,22





File :D:\DataMS\2017\08-2017\25082017\VL945GP1-2.D  
 Operator : VL  
 Acquired : 25 Aug 2017 14:17 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL945GP1  
 Misc Info :  
 Vial Number: 11

Area Percent Report

Data Path : D:\DataMS\2017\08-2017\25082017\  
 Data File : VL945GP1-2.D  
 Acq On : 25 Aug 2017 14:17  
 Operator : VL  
 Sample : VL945GP1  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

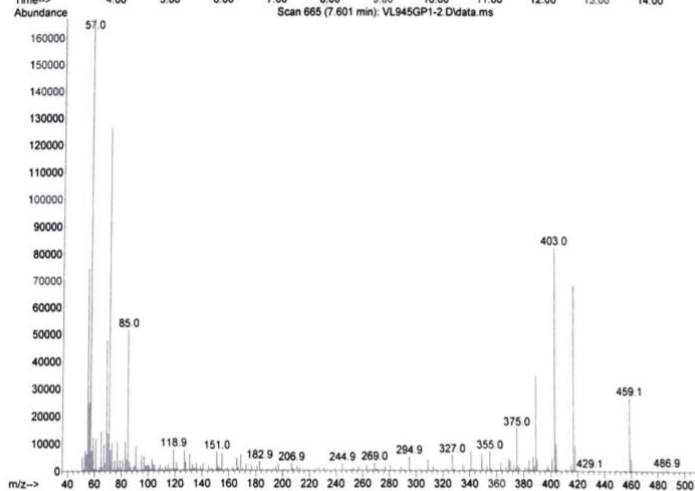
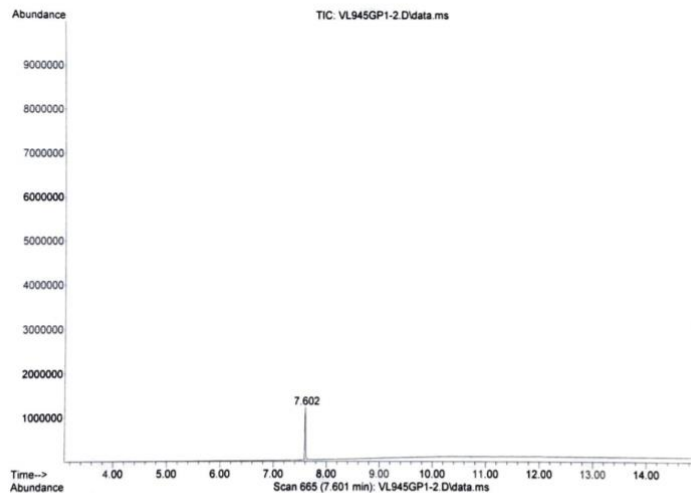
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL945GP1-2.D\data.ms

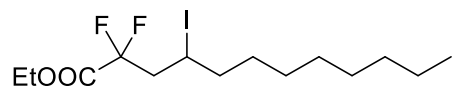
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.599	661	665	674	M2	1240777	12816362	100.00%	100.000%

Sum of corrected areas: 12816362

hexadecenal.M Mon Oct 12 17:04:16 2020

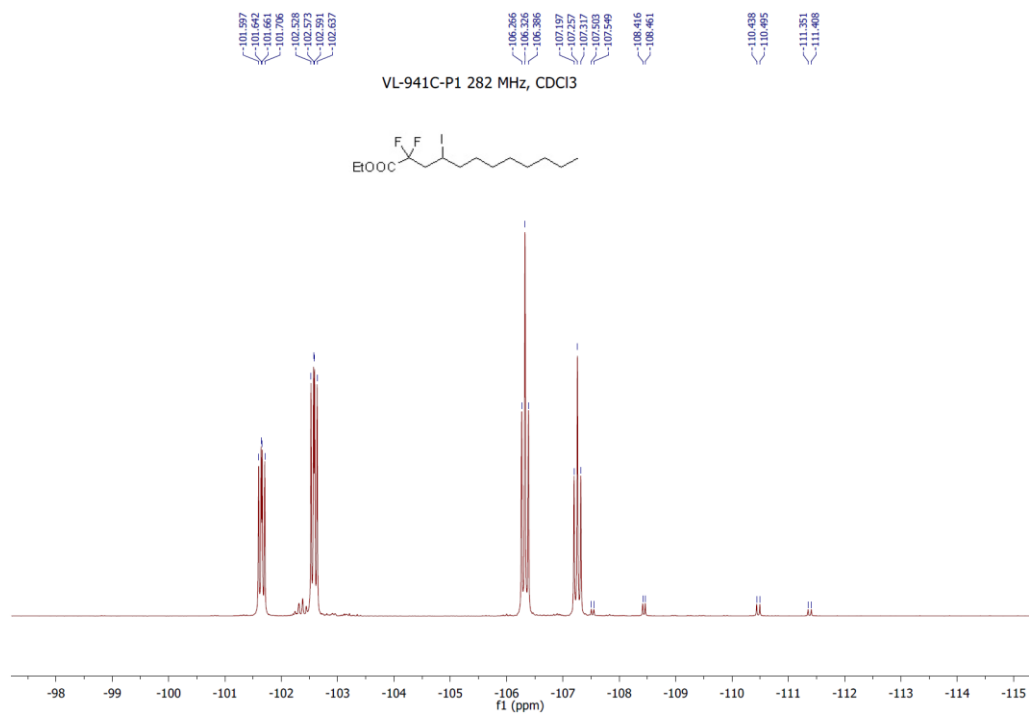
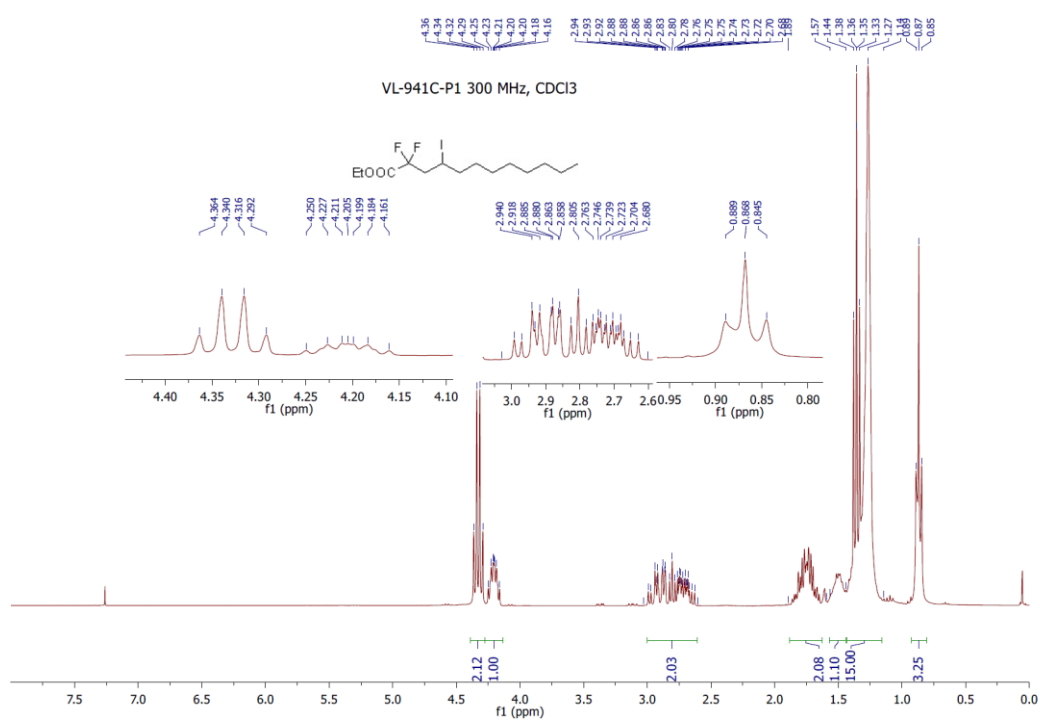


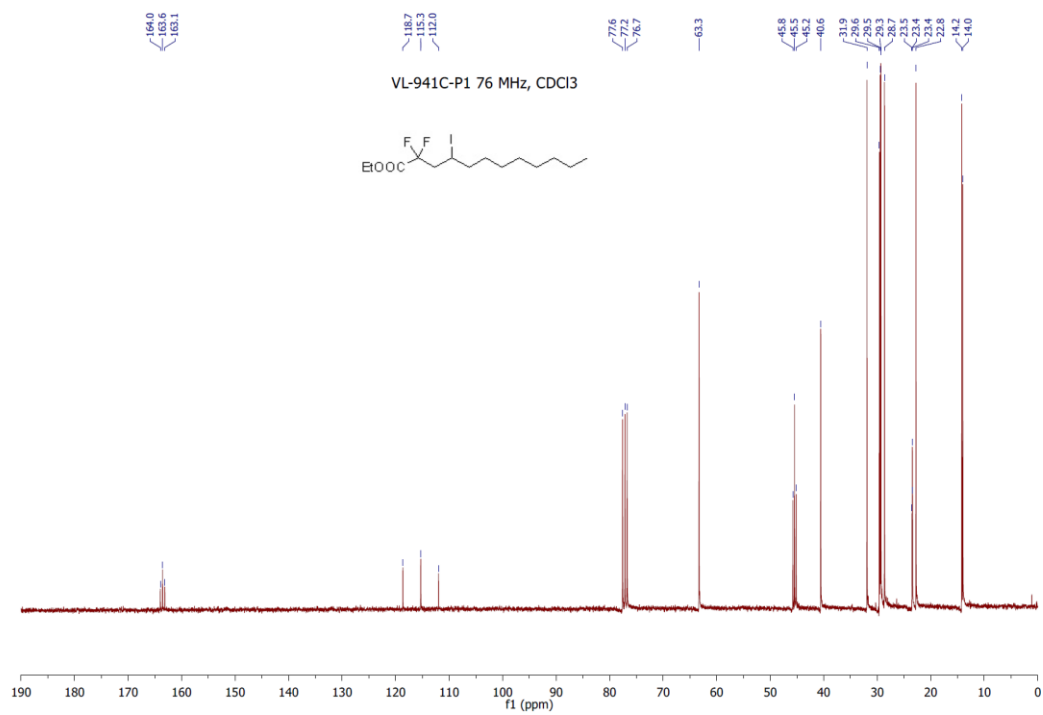




Chemical Formula: C<sub>14</sub>H<sub>25</sub>F<sub>2</sub>IO<sub>2</sub>

Molecular Weight: 390,25





File :D:\DataMS\2017\07-2017\20-07-2017\VL941CP-1.D  
 Operator : VL  
 Acquired : 20 Jul 2017 20:52 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL941CP-1  
 Misc Info :  
 Vial Number: 21

# Area Percent Report

Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
 Data File : VL941CP-1.D  
 Acq On : 20 Jul 2017 20:52  
 Operator : VL  
 Sample : VL941CP-1  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

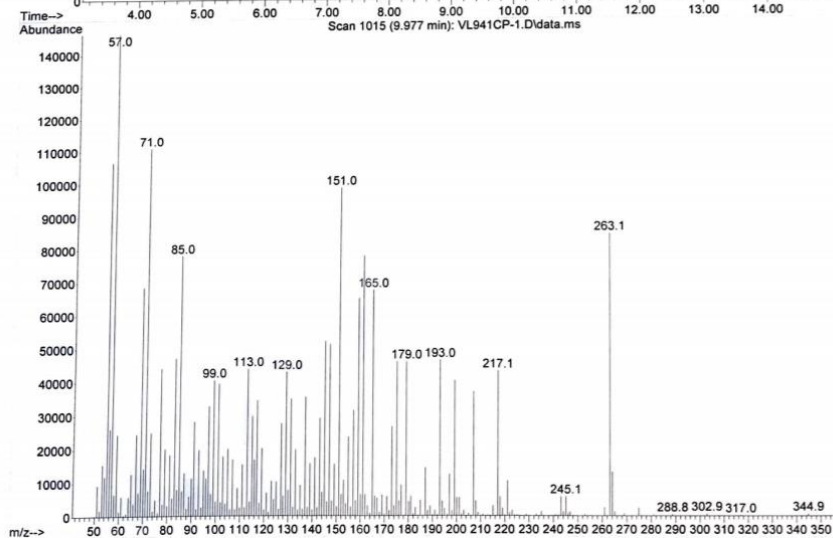
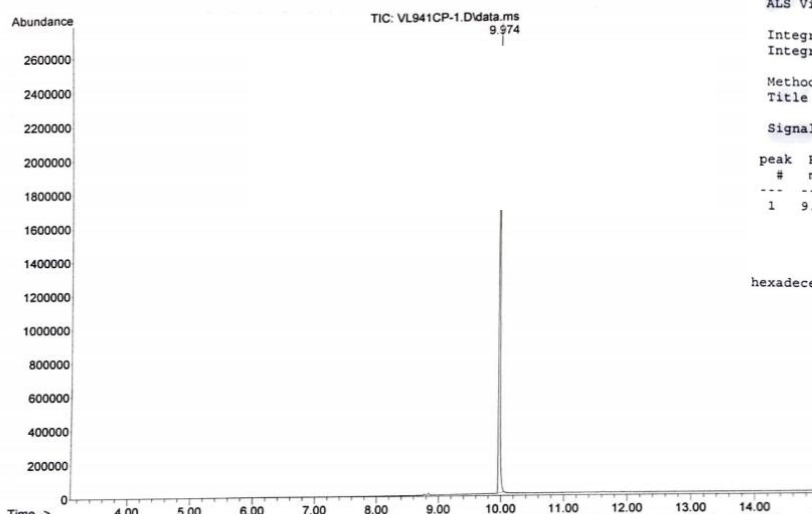
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

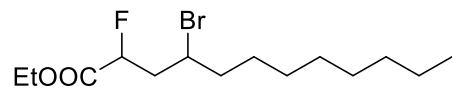
Signal : TIC: VL941CP-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.974	1010	1015	1028	M	2894124	39411859	100.00%	100.000%

Sum of corrected areas: 39411859

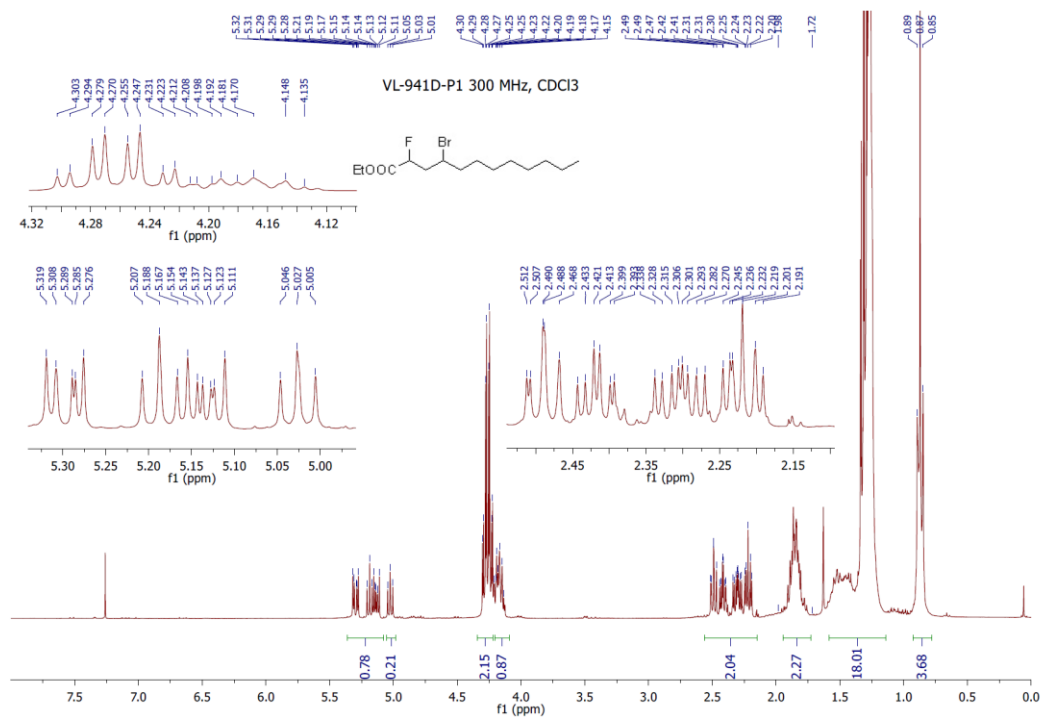
hexadecenal.M Mon Oct 12 17:21:16 2020

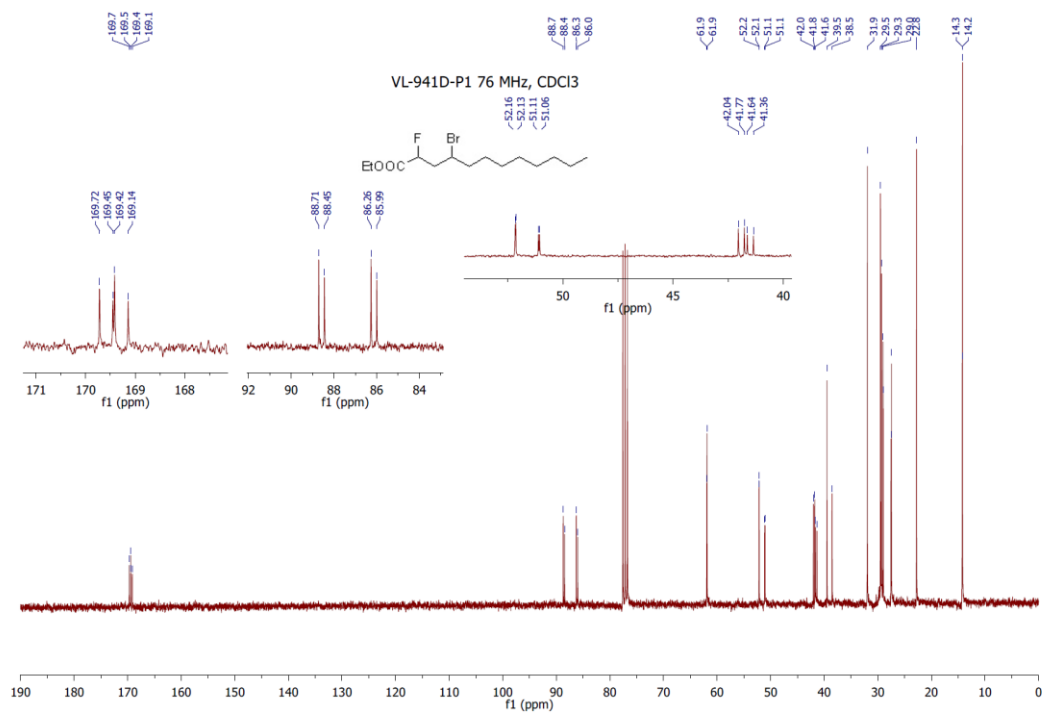
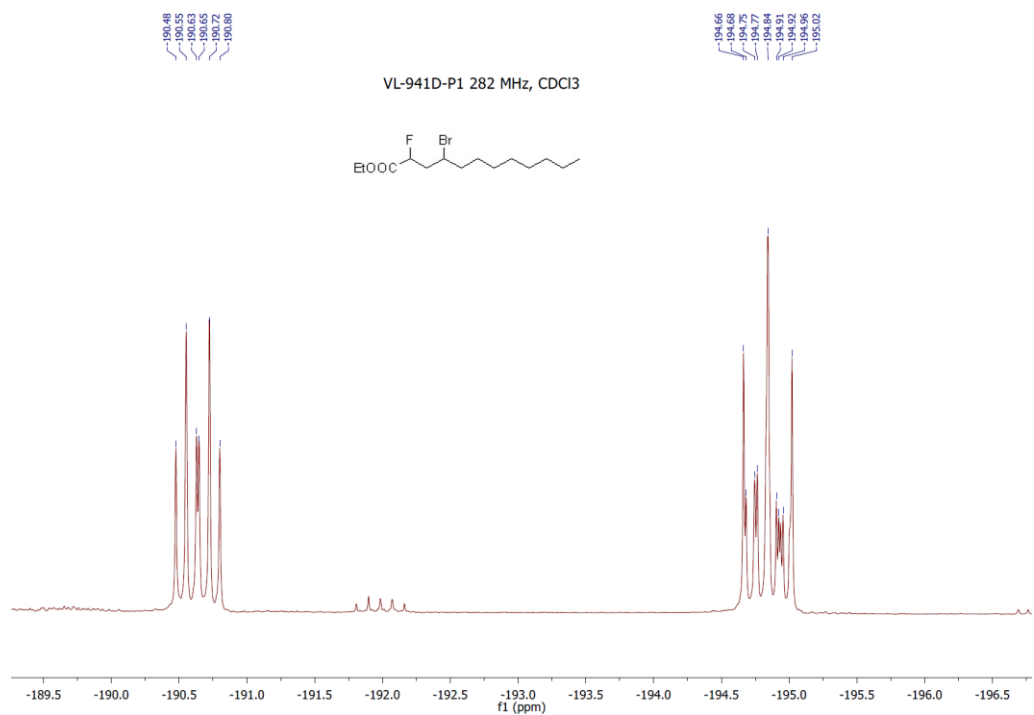




Chemical Formula:  $C_{14}H_{26}BrFO_2$

Molecular Weight: 325,26





File :D:\DataMS\2017\07-2017\20-07-2017\VL941D-P1.D  
 Operator : VL  
 Acquired : 20 Jul 2017 19:57 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name : VL941D-P1  
 Misc Info :  
 Vial Number: 18

# Area Percent Report

Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
 Data File : VL941D-P1.D  
 Acq On : 20 Jul 2017 19:57  
 Operator : VL  
 Sample : VL941D-P1  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M

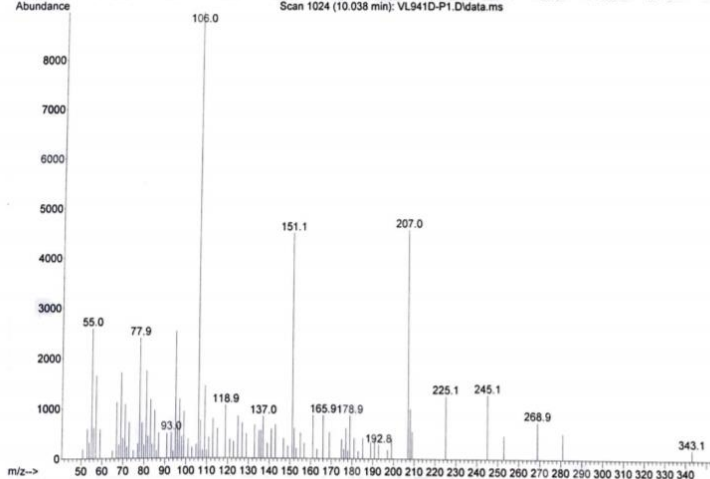
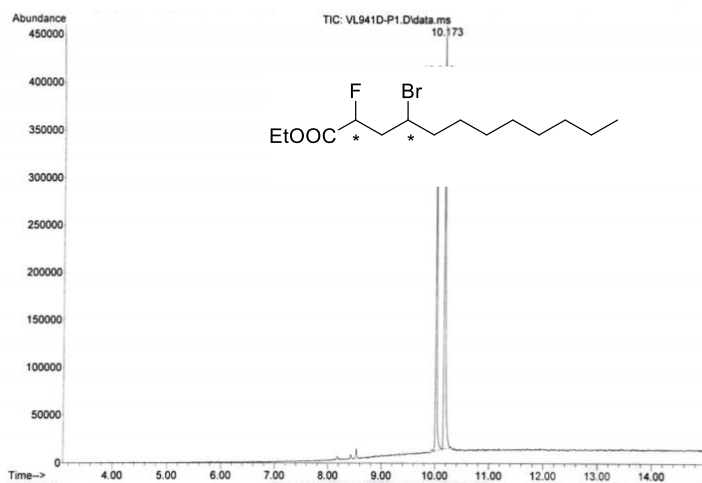
Title :

Signal : TIC: VL941D-P1.D\data.ms

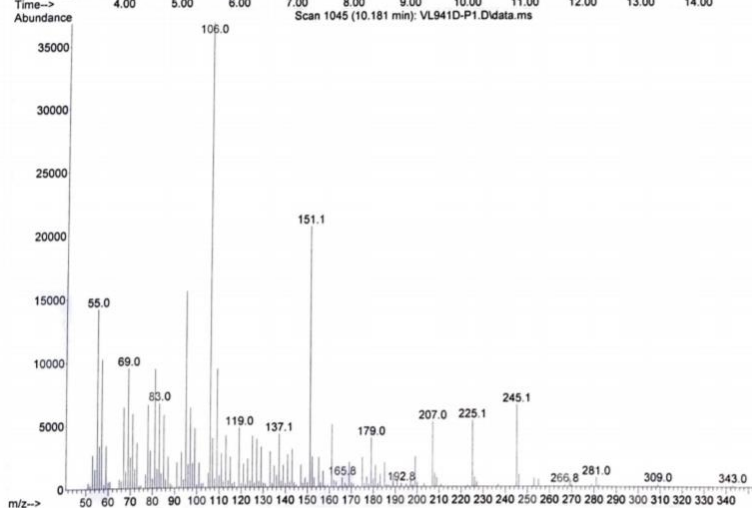
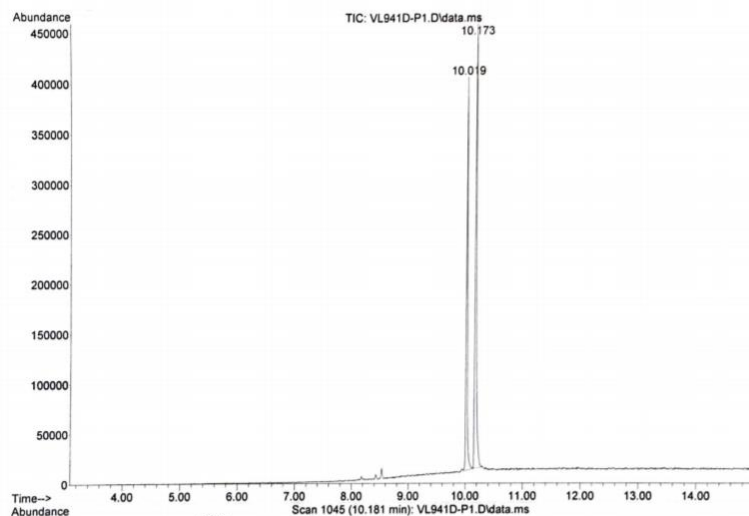
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	10.019	1013	1021	1029	M	394684	5392494	68.82%	40.766%
2	10.173	1036	1044	1061	M	446647	7835502	100.00%	59.234%

Sum of corrected areas: 13227996

hexadecenal.M Mon Oct 12 20:01:36 2020

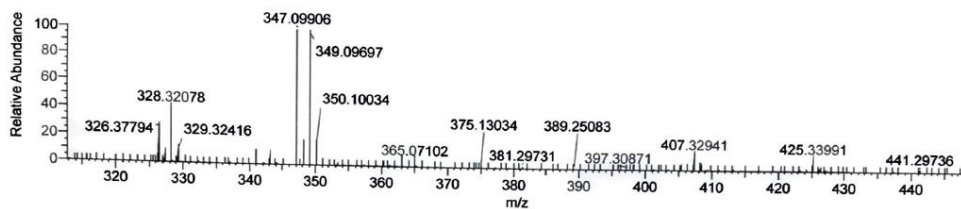


File :D:\DataMS\2017\07-2017\20-07-2017\VL941D-P1.D  
 Operator : VL  
 Acquired : 20 Jul 2017 19:57 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL941D-P1  
 Misc Info :  
 Vial Number: 18

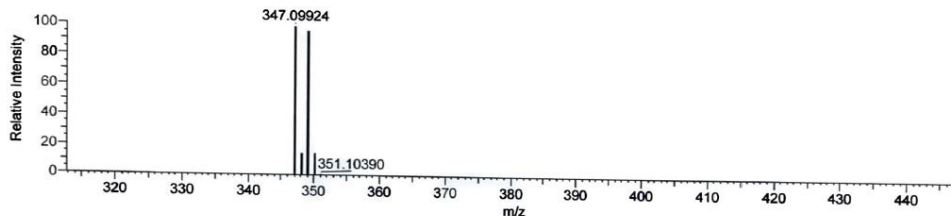


D:\2020\03-Mars\QEXACTIVE-020320-VL945CP.raw

3/2/2020 5:31:28 PM

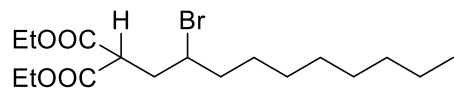


NL: 2.04E8  
 QEXACTIVE-020320-VL945CP #63-70 RT:  
 1.4-1.54 AV, 4 SB, 13 0.60-0.84, 1.96-2.30  
 NL: 2.04E8  
 T: FTMS + p ESI Full ms  
 [95.0000-1425.0000]



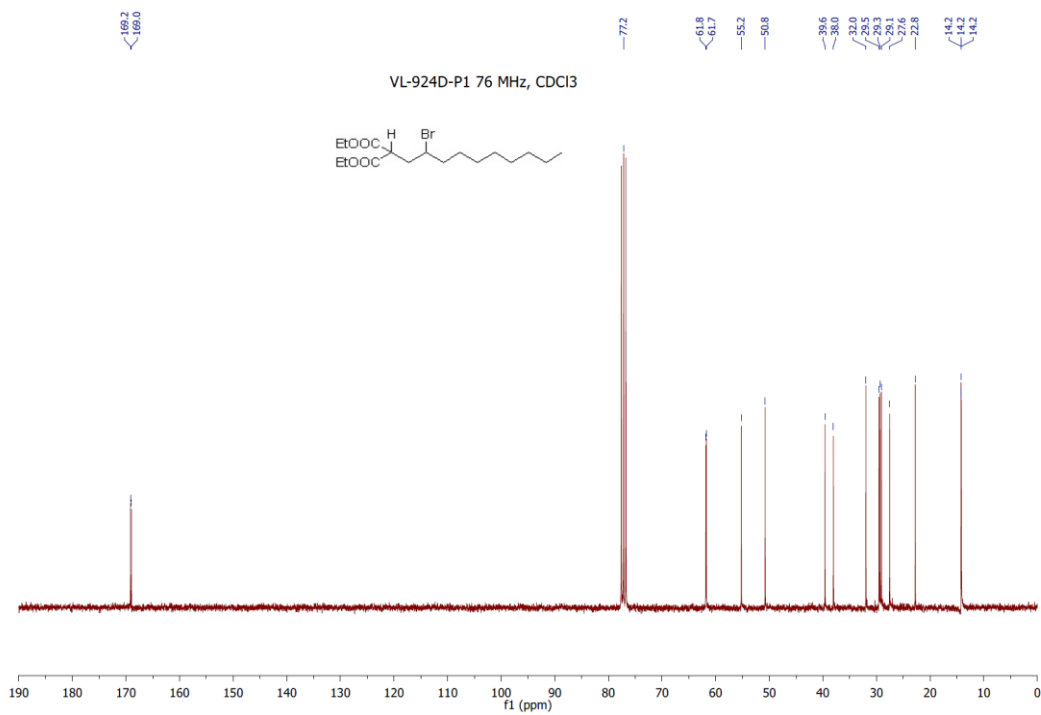
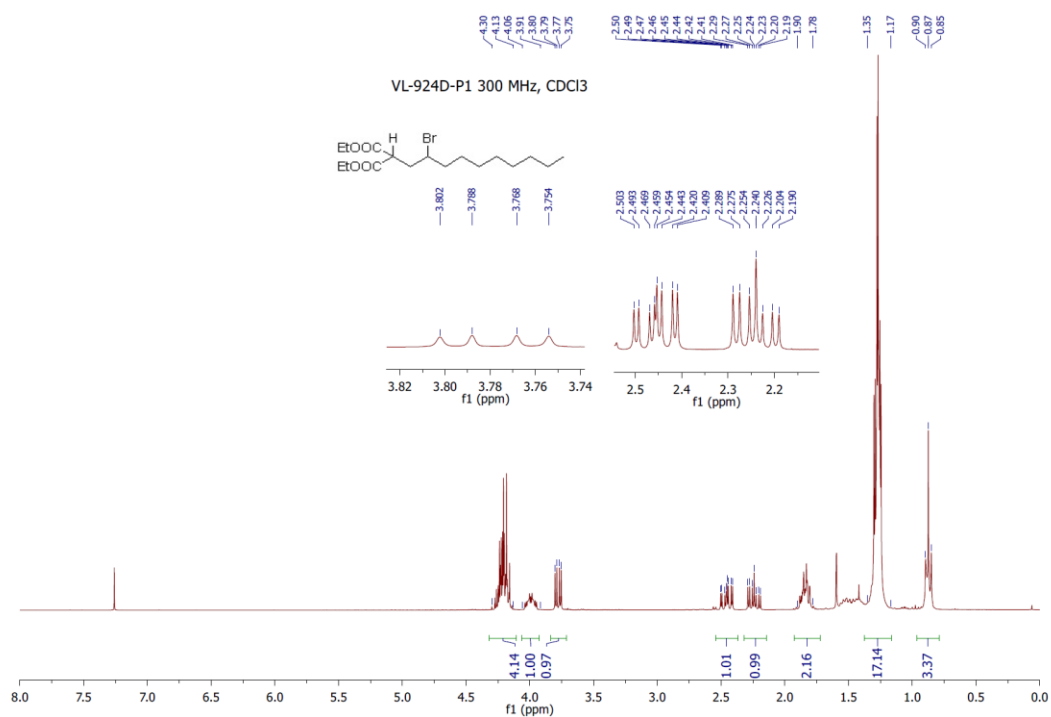
NL: 4.33E5  
 C14H26O2Br1F1Na1 Chrg 1 R: 217767  
 Res. Pwr. @FWHM

Peak Mass	Display Formula	Delta [ppm]	Theo. mass	# Matched Iso.	MSMS Matched Fragments (Collection)
347.09906	$C_{14}H_{26}O_2^{79}Br^{23}Na$	-0.53	347.09924	6	



Chemical Formula:  $C_{17}H_{31}BrO_4$

Molecular Weight: 379,34





File :D:\DataMS\2017\07-2017\20-07-2017\VL924D-P1.D  
 Operator : VL  
 Acquired : 20 Jul 2017 21:29 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL924D-P1  
 Misc Info :  
 Vial Number: 23

# Area Percent Report

Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
 Data File : VL924D-P1.D  
 Acq On : 20 Jul 2017 21:29  
 Operator : VL  
 Sample : VL924D-P1  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

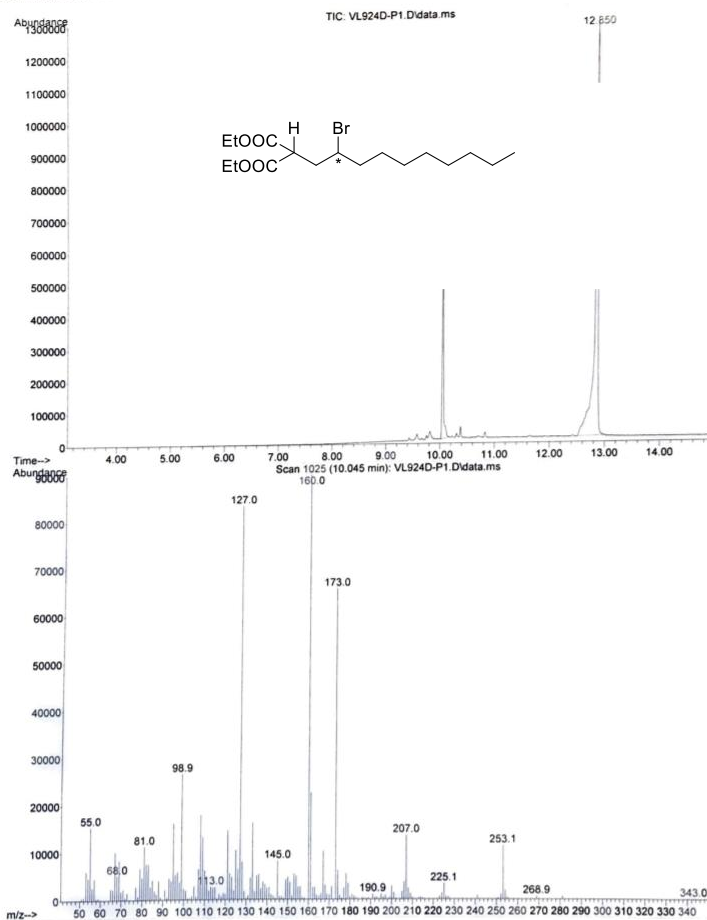
Method : C:\msdchem\1\methods\MSWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL924D-P1.D\data.ms

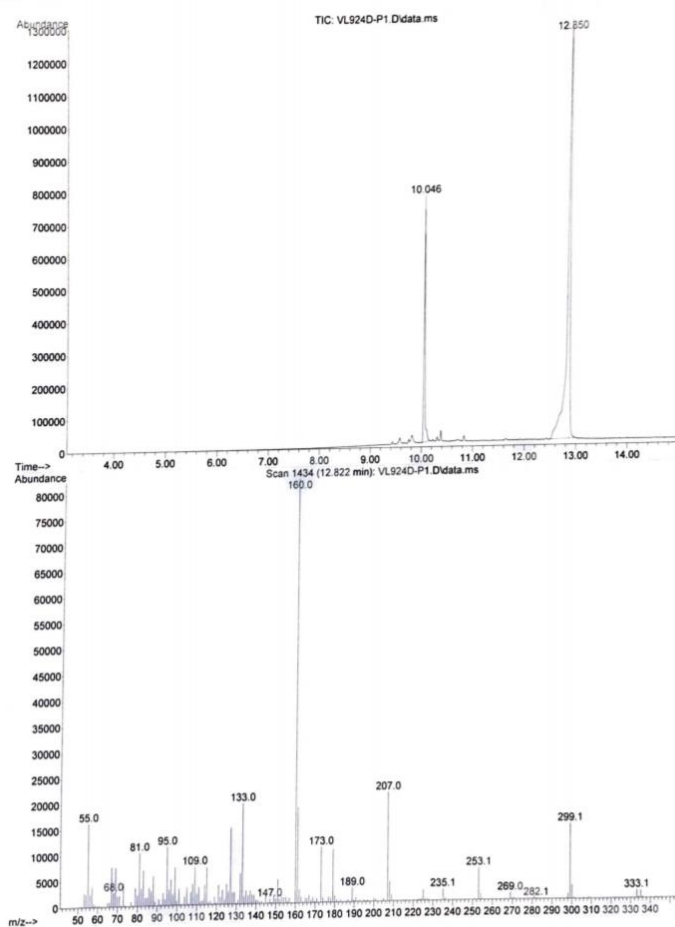
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	10.046	1020	1025	1043	M	767628	11464620	24.18%	19.471%
2	12.850	1387	1438	1459	M	1286094	47417206	100.00%	80.529%

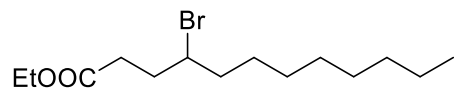
Sum of corrected areas: 58881826

hexadecenal.M Tue Oct 13 10:59:45 2020



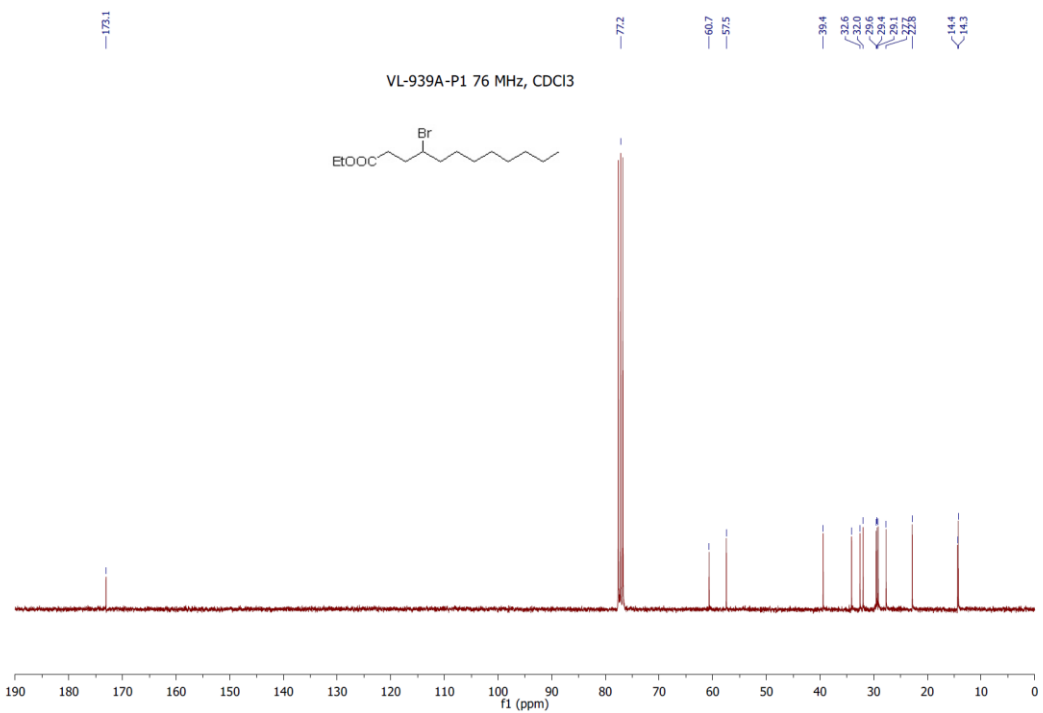
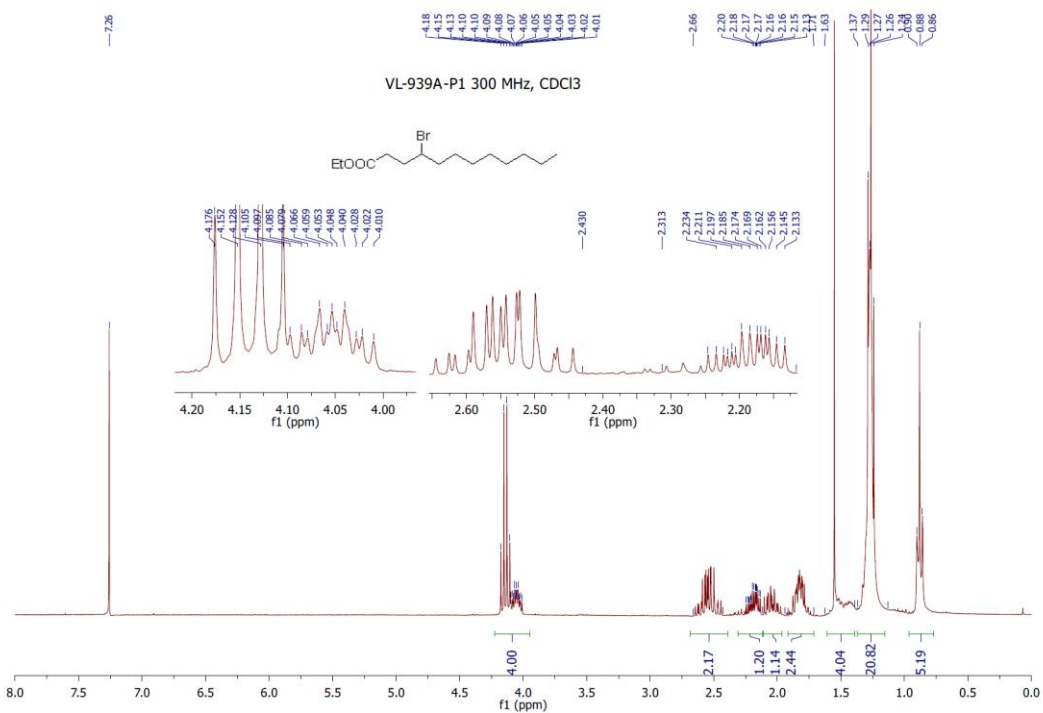
File :D:\DataMS\2017\07-2017\20-07-2017\VL924D-P1.D  
Operator : VL  
Acquired : 20 Jul 2017 21:29 using AcqMethod NORMAL.M  
Instrument : 7890 5975  
Sample Name: VL924D-P1  
Misc Info :  
Vial Number: 23





Chemical Formula: C<sub>14</sub>H<sub>27</sub>BrO<sub>2</sub>

Molecular Weight: 307,27



File :D:\DataMS\2017\08-2017\25082017\VL939AP.D  
 Operator : VL  
 Acquired : 25 Aug 2017 16:26 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL939AP  
 Misc Info :  
 Vial Number: 18

# Area Percent Report

Data Path : D:\DataMS\2017\08-2017\25082017\  
 Data File : VL939AP.D  
 Acq On : 25 Aug 2017 16:26  
 Operator : VL  
 Sample : VL939AP  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

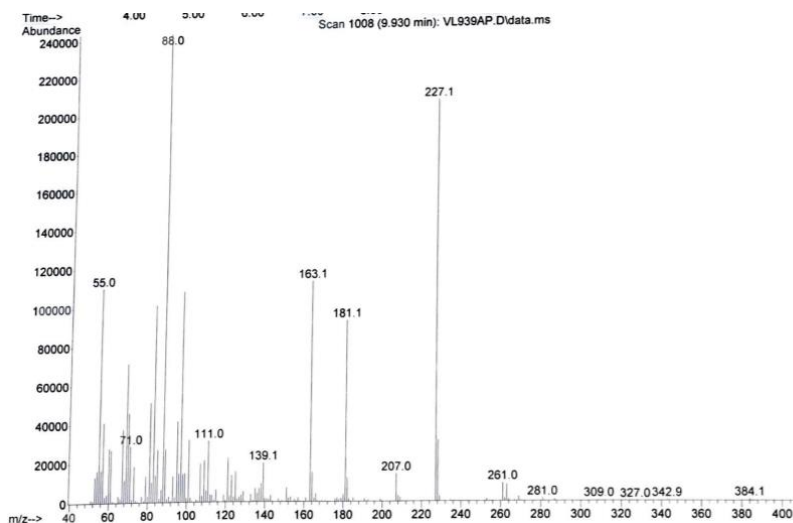
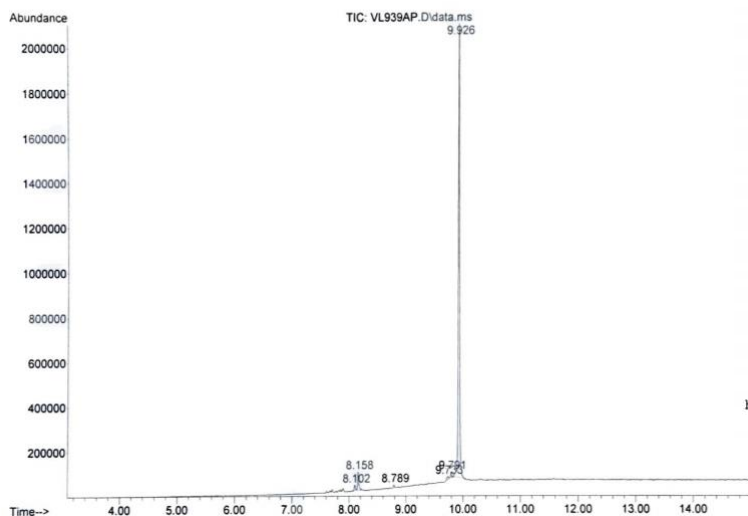
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

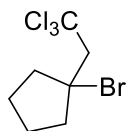
Signal : TIC: VL939AP.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.102	735	739	743	M4	22813	303467	0.98%	0.920%
2	8.158	744	747	757	M	81954	1204845	3.91%	3.651%
3	8.789	838	840	844	M3	13514	142818	0.46%	0.433%
4	9.733	973	979	983	M2	11988	256709	0.83%	0.778%
5	9.791	983	988	990	M	25607	245963	0.80%	0.745%
6	9.926	993	1007	1021	M	2126644	30848201	100.00%	93.474%

Sum of corrected areas: 33002004

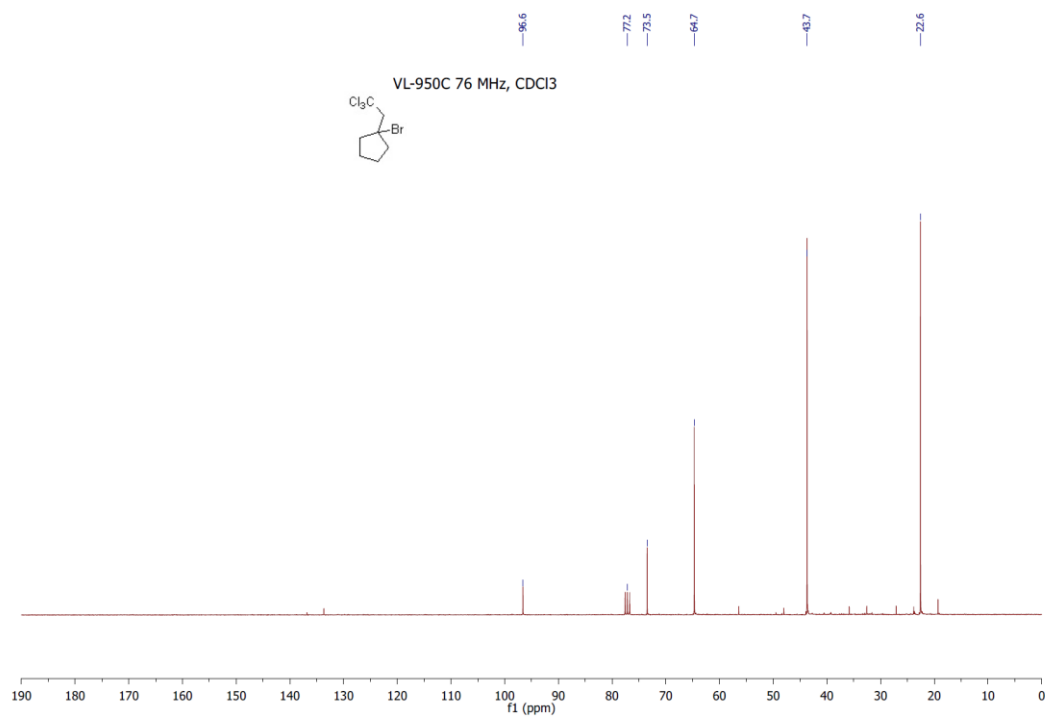
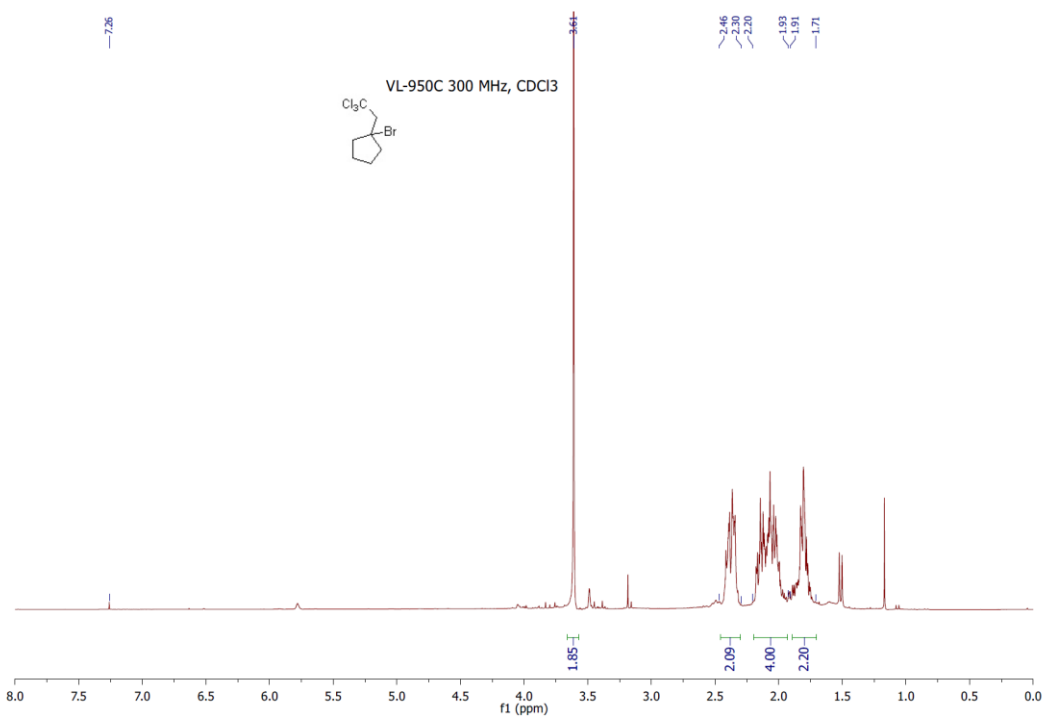
hexadecenal.M Mon Oct 12 17:01:22 2020





Chemical Formula: C<sub>7</sub>H<sub>10</sub>BrCl<sub>3</sub>

Molecular Weight: 280,4110



File :D:\DataMS\2017\07-2017\20-07-2017\VL950C.D  
 Operator : VL  
 Acquired : 20 Jul 2017 19:02 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL950C  
 Misc Info :  
 Vial Number: 15

# Area Percent Report

Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
 Data File : VL950C.D  
 Acq On : 20 Jul 2017 19:02  
 Operator : VL  
 Sample : VL950C  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

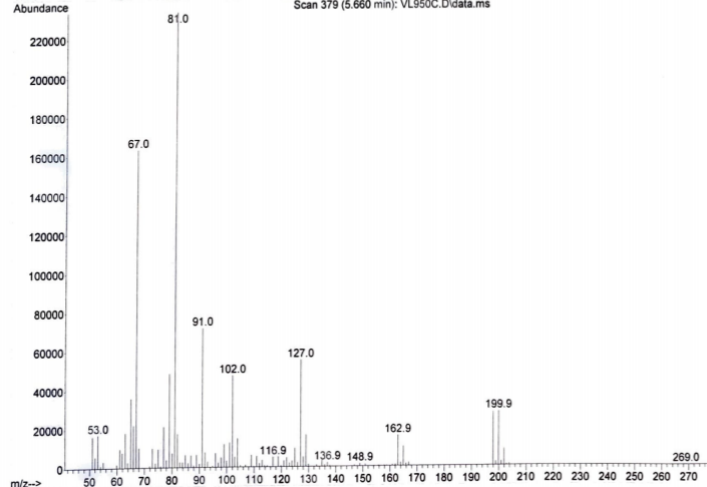
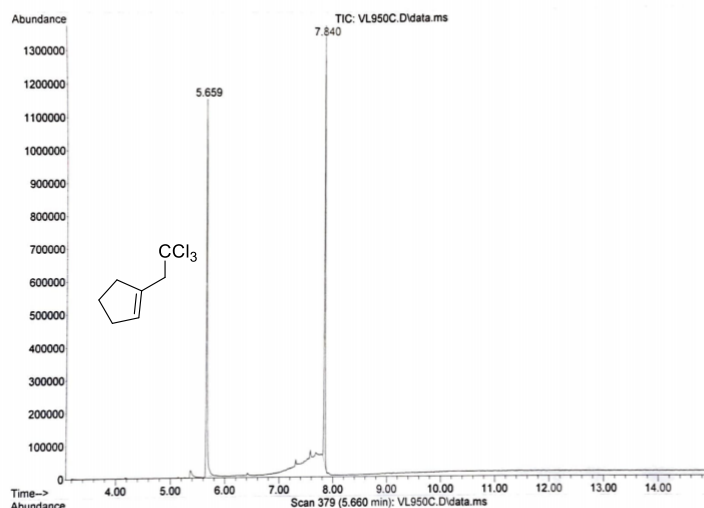
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL950C.D\data.ms

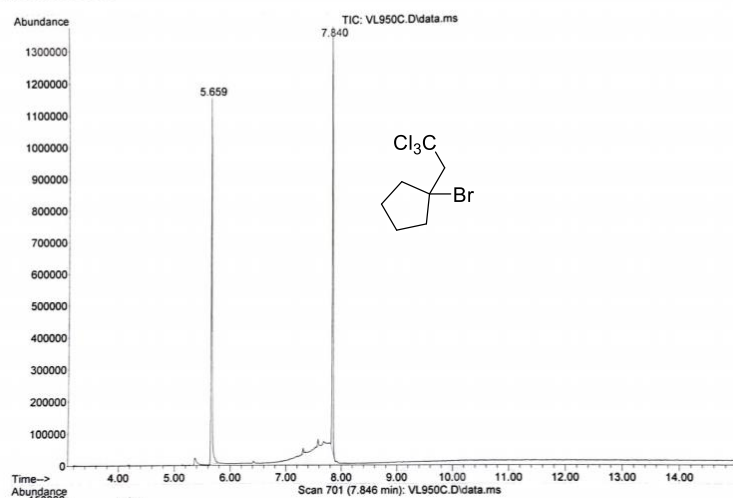
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.659	374	379	400	M	1163213	14710638	100.00%	50.845%
2	7.840	695	700	707	M	1332377	14221945	96.68%	49.155%

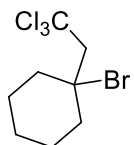
Sum of corrected areas: 28932583

hexadecenal.M Tue Oct 13 11:15:26 2020



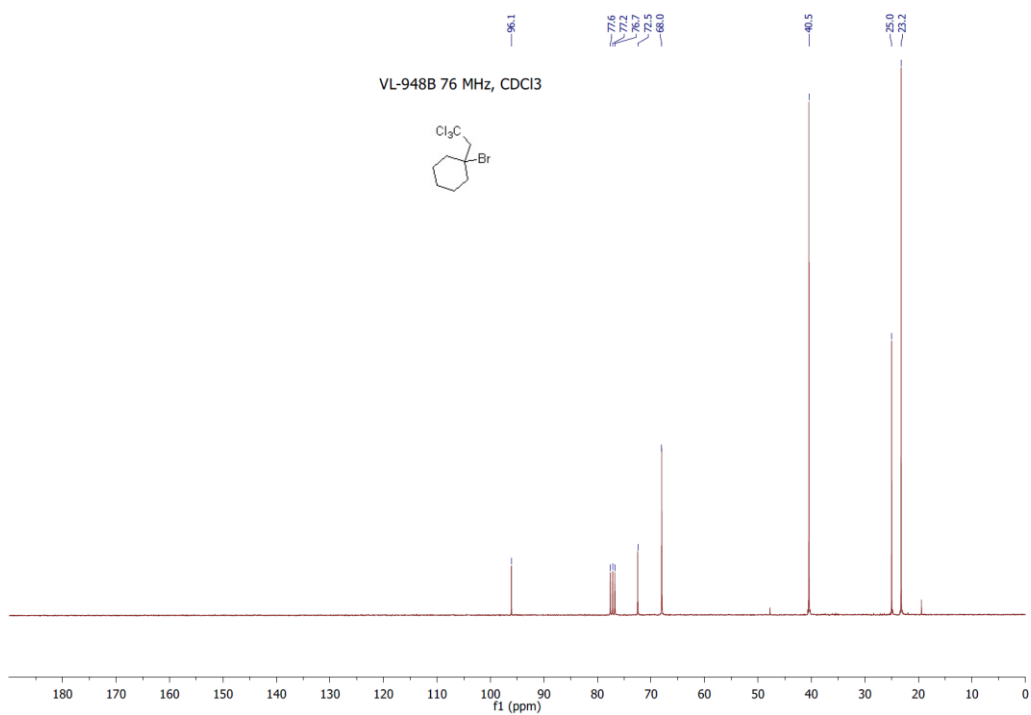
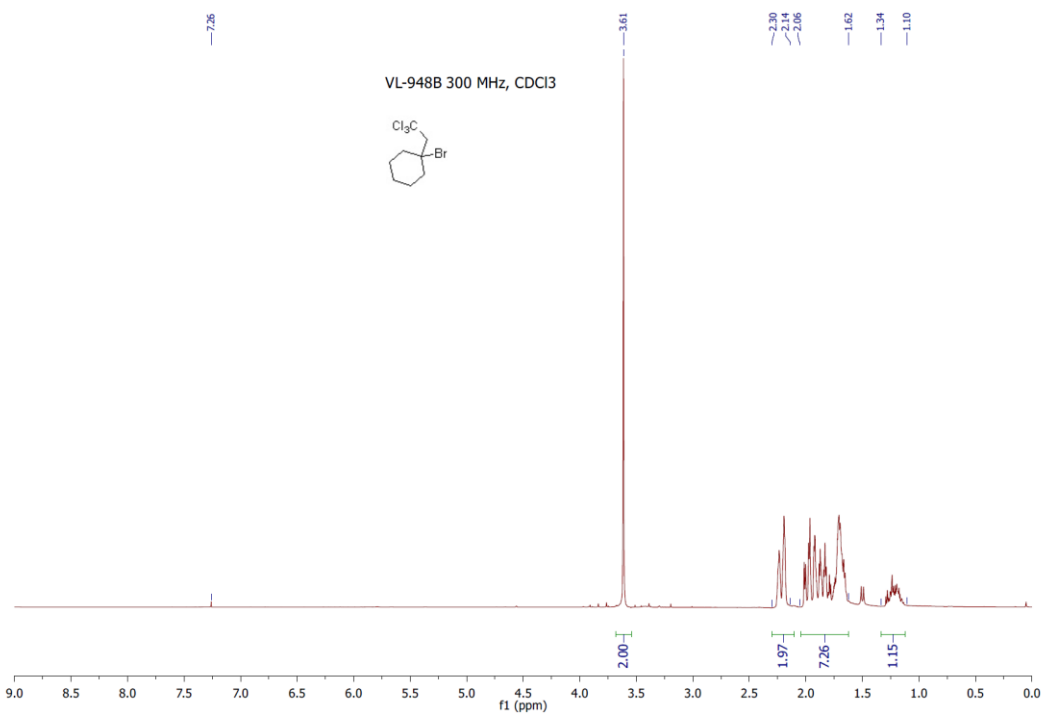
File :D:\DataMS\2017\07-2017\20-07-2017\VL950C.D  
Operator : VL  
Acquired : 20 Jul 2017 19:02 using AcqMethod NORMAL.M  
Instrument : 7890 5975  
Sample Name: VL950C  
Misc Info :  
Vial Number: 15





Chemical Formula:  $C_8H_{12}BrCl_3$

Molecular Weight: 294,44





File :D:\DataMS\2017\07-2017\20-07-2017\VL948B.D  
 Operator : VL  
 Acquired : 20 Jul 2017 18:44 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL948B  
 Misc Info :  
 Vial Number: 14

Area Percent Report

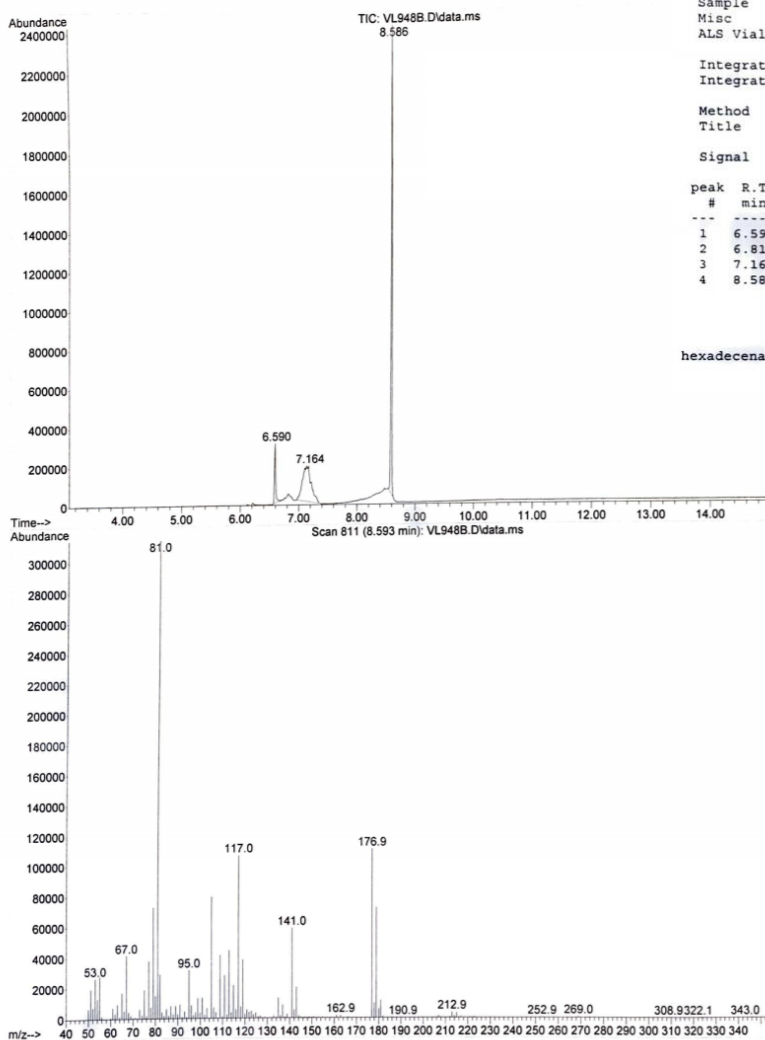
Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
 Data File : VL948B.D  
 Acq On : 20 Jul 2017 18:44  
 Operator : VL  
 Sample : VL948B  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1  
 Integration Parameters: autoint1.e  
 Integrator: ChemStation  
 Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL948B.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.590	512	516	530	M	307576	4332772	16.97%	8.592%
2	6.819	539	550	569	M3	30517	1527652	5.98%	3.029%
3	7.164	570	601	632	M2	187456	19039938	74.58%	37.755%
4	8.586	805	810	818	M	2384472	25530281	100.00%	50.625%

Sum of corrected areas: 50430643

hexadecenal.M Mon Oct 12 17:11:34 2020

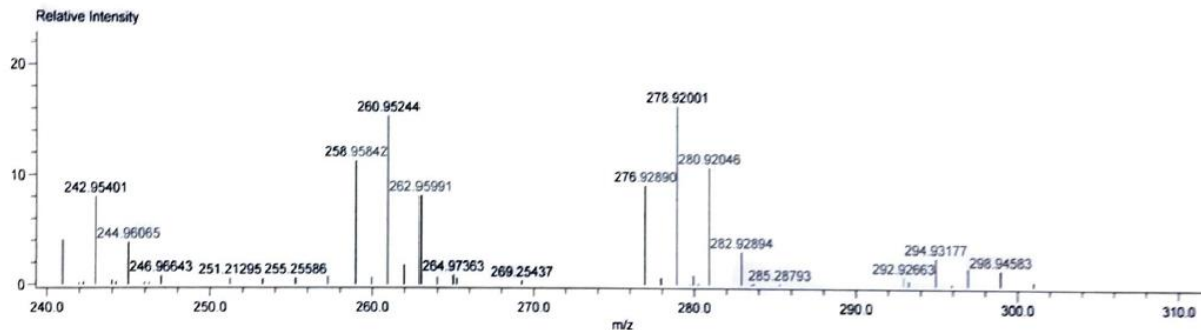


Data CI-200720-VL948B  
 Sample Name:  
 Description:  
 Ionization Mode CI+  
 History Determine m/z[Peak Detect[Centroid,30,Area],Smooth[25]],Correct Base[],Average[MS[1] 9.58.9.59]

Acquired 7/20/2020 10:30:15 AM  
 Operator AccuTof  
 Mass Calibration data CAL-291118-CAL-EI-class4  
 Created 7/20/2020 3:24:36 PM  
 Created by AccuTof

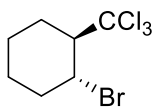
Charge number: 1  
 Element: <sup>12</sup>C: 0 ... 50, <sup>1</sup>H: 0 ... 100, <sup>79</sup>Br: 1 ... 1, <sup>35</sup>Cl: 3 ... 3, <sup>19</sup>F: 0 ... 0, <sup>14</sup>N: 0 ... 0, <sup>16</sup>O: 0 ... 2

Unsaturation Number -1000.0 ... 2000.0 (Fraction Both)



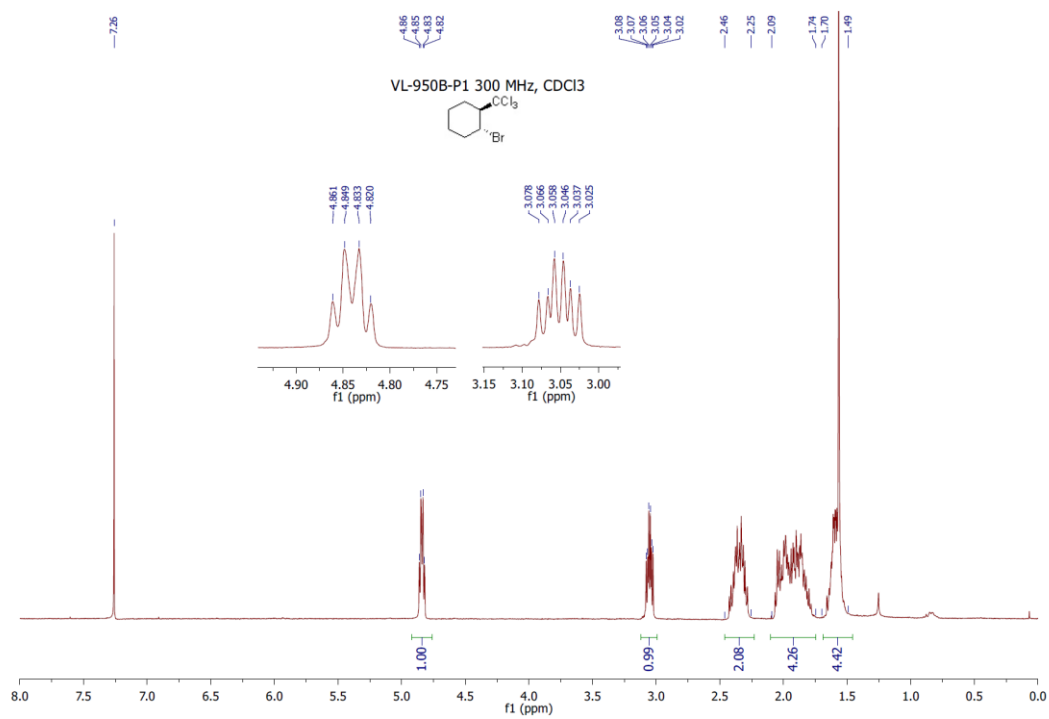
Mass	Intensity	Calc. Mass	Mass Difference (ppm)	Possible Formula	Unsaturation Number
292.92663	570.67	292.92662	0.02	<sup>12</sup> C <sub>8</sub> <sup>1</sup> H <sub>13</sub> <sup>79</sup> Br <sup>35</sup> Cl <sub>3</sub>	0.5

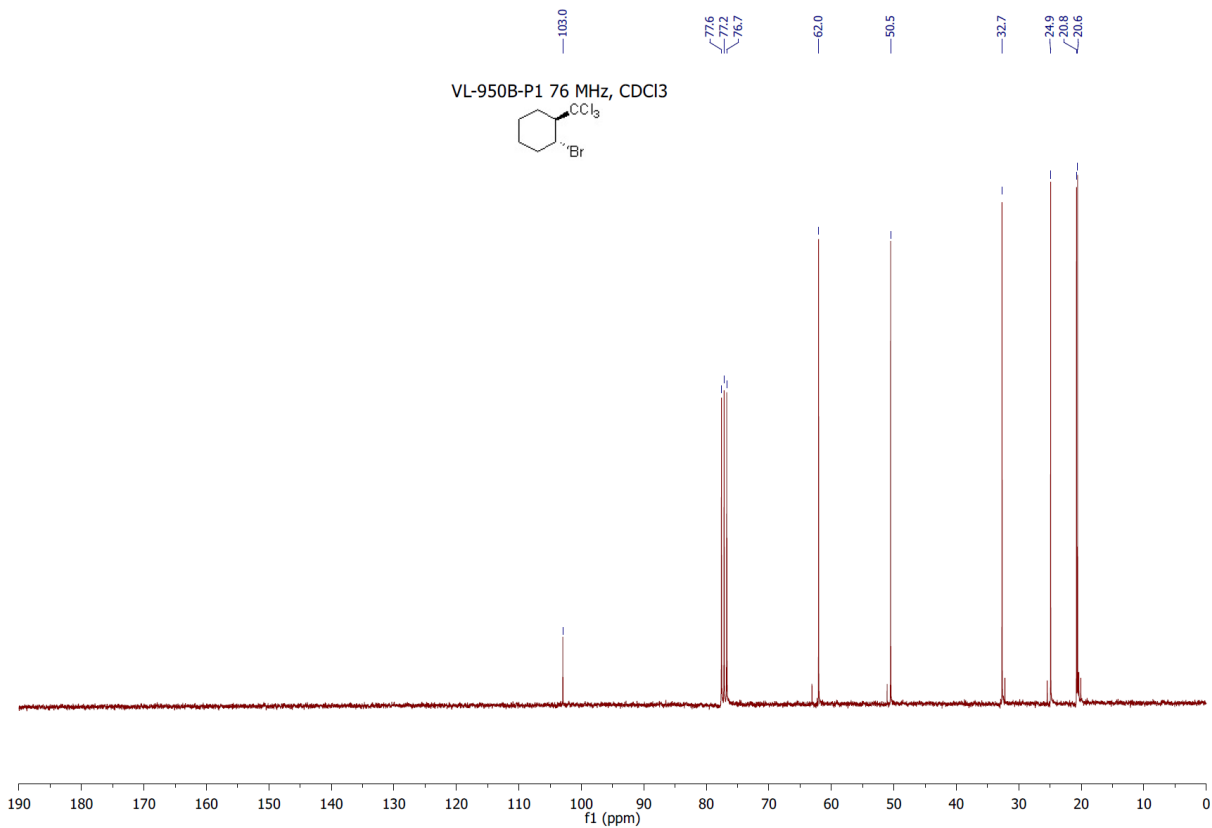
CCl<sub>3</sub>



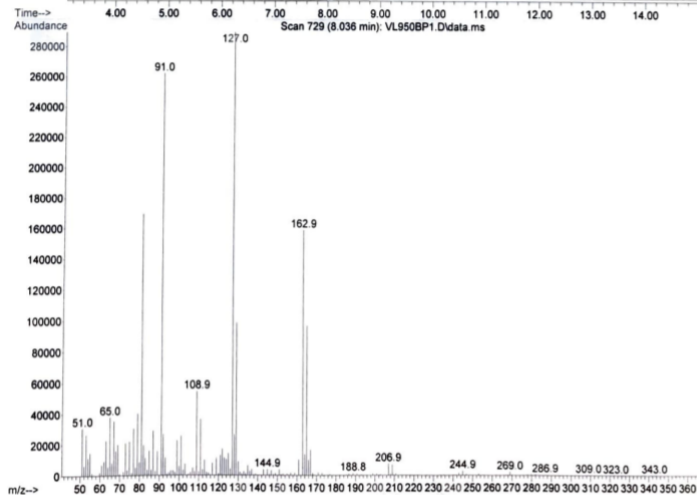
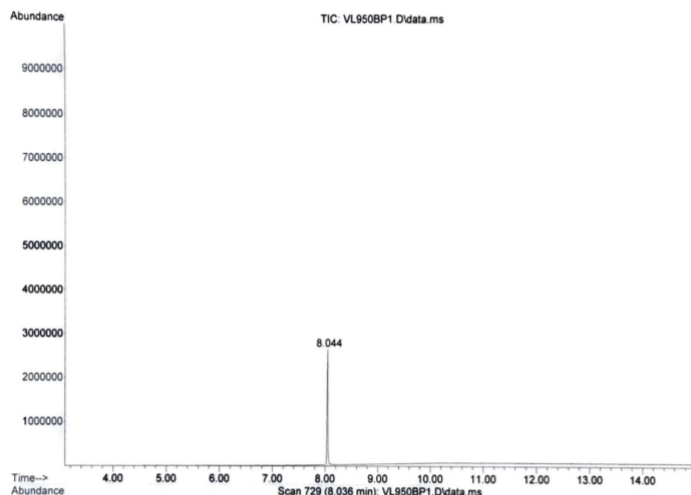
Chemical Formula:  $C_7H_{10}BrCl_3$

Molecular Weight: 280,41





File :D:\DataMS\2017\08-2017\25082017\VL950BP1.D  
 Operator : VL  
 Acquired : 25 Aug 2017 15:12 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL950BP1  
 Misc Info :  
 Vial Number: 14



# Area Percent Report

Data Path : D:\DataMS\2017\08-2017\25082017\  
 Data File : VL950BP1.D  
 Acq On : 25 Aug 2017 15:12  
 Operator : VL  
 Sample : VL950BP1  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

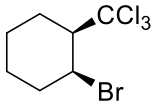
Method : C:\msdchem\1\methods\DEWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL950BP1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.281	613	618	624	M5	8014	140883	0.45%	0.450%
2	8.041	725	730	756	M	2663143	31144299	100.00%	99.550%

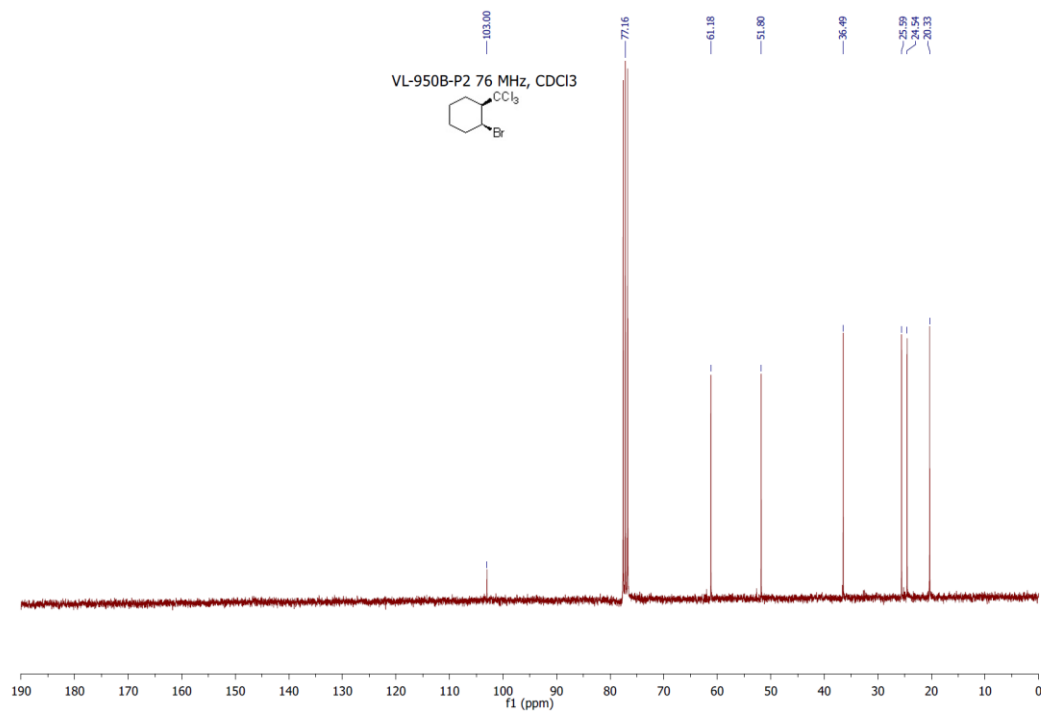
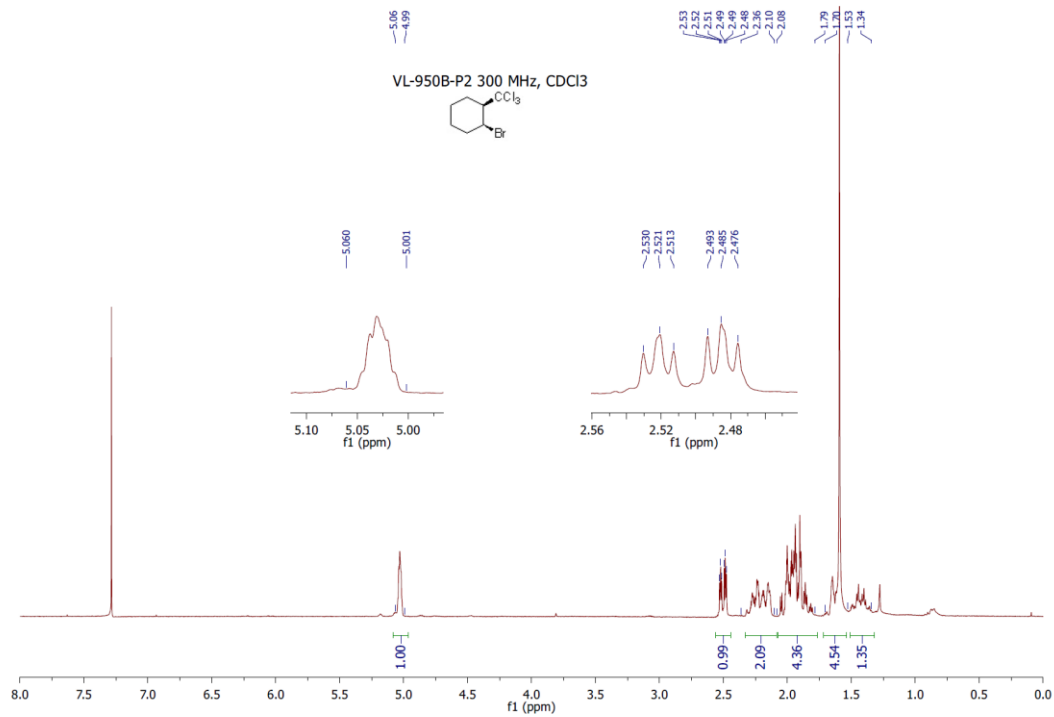
Sum of corrected areas: 31285183

hexadecenal.M Mon Oct 12 17:00:19 2020



Chemical Formula:  $C_7H_{10}BrCl_3$

Molecular Weight: 280,41



File :D:\DataMS\2017\08-2017\25082017\VL950BP2.D  
 Operator : VL  
 Acquired : 25 Aug 2017 14:54 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL950BP2  
 Misc Info :  
 Vial Number: 13

# Area Percent Report

Data Path : D:\DataMS\2017\08-2017\25082017\  
 Data File : VL950BP2.D  
 Acq On : 25 Aug 2017 14:54  
 Operator : VL  
 Sample : VL950BP2  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

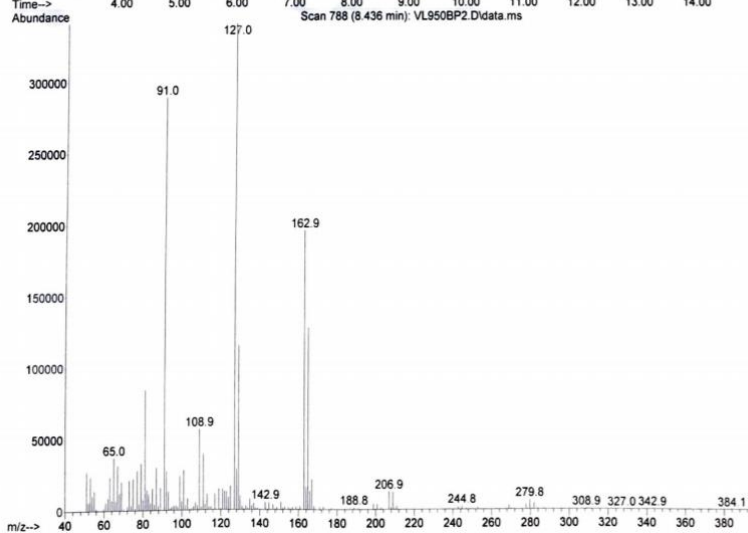
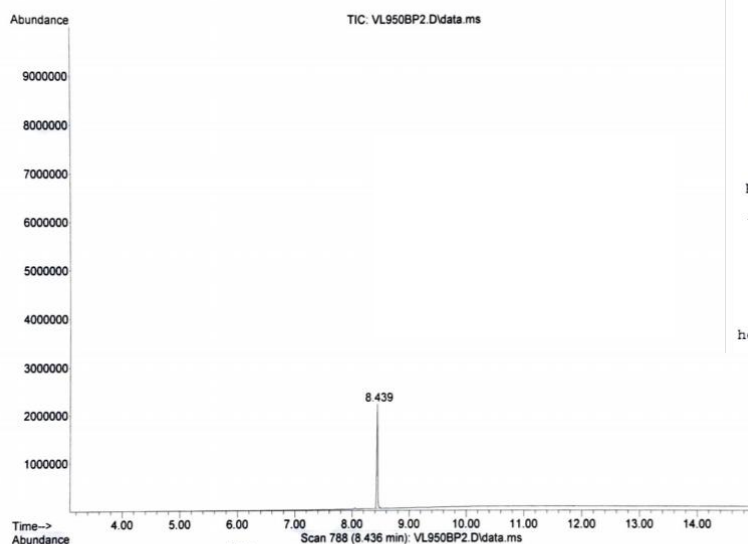
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

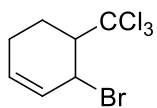
Signal : TIC: VL950BP2.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.049	728	731	735	M	31593	389598	1.55%	1.522%
2	8.436	784	788	802	M	2184454	25204725	100.00%	98.478%

Sum of corrected areas: 25594323

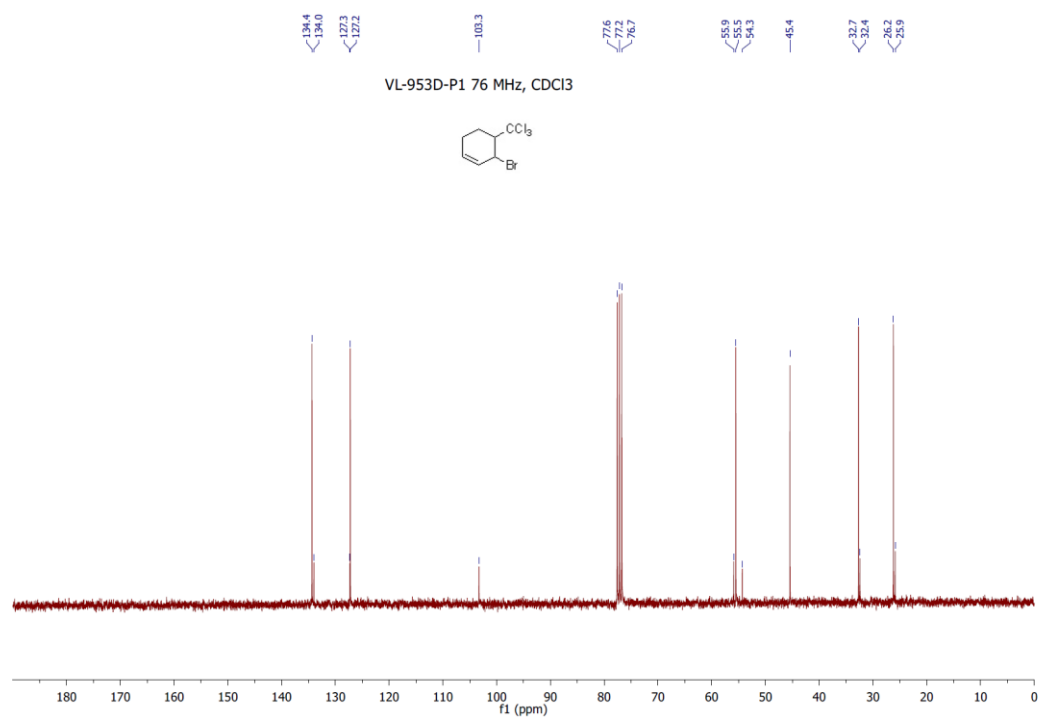
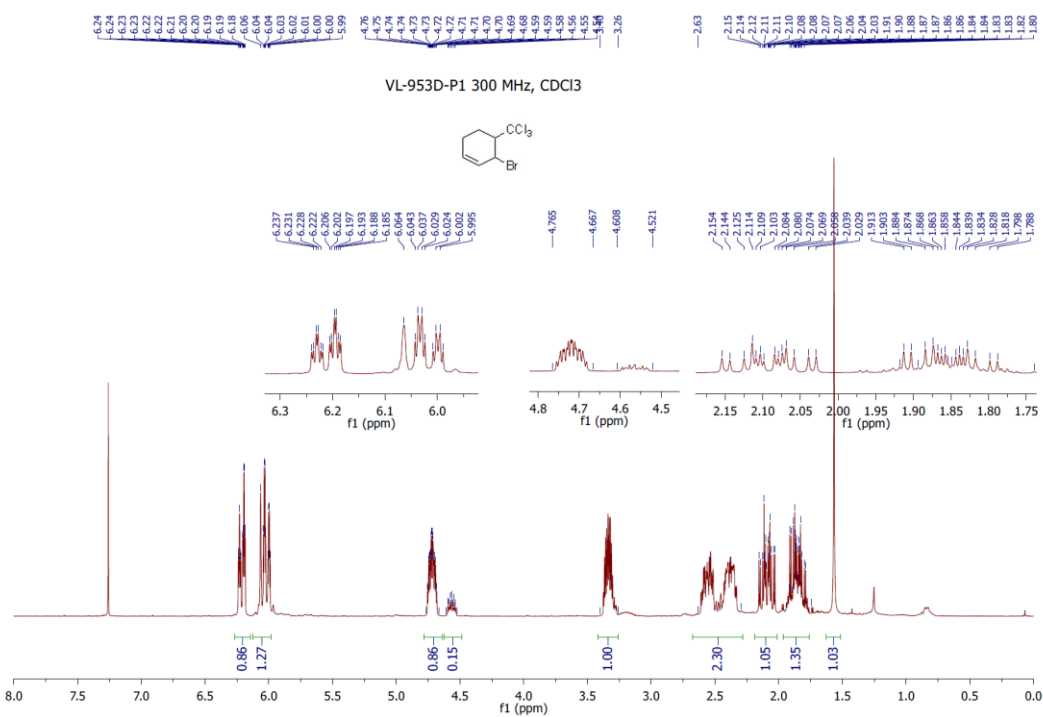
hexadecenal.M Mon Oct 12 16:59:44 2020





Chemical Formula:  $C_7H_8BrCl_3$

Molecular Weight: 278,40



File :D:\DataMS\2017\08-2017\25082017\VL953DP1.D  
 Operator : VL  
 Acquired : 25 Aug 2017 17:21 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL953DP1  
 Misc Info :  
 Vial Number: 21

Area Percent Report

Data Path : D:\DataMS\2017\08-2017\25082017\  
 Data File : VL953DP1.D  
 Acq On : 25 Aug 2017 17:21  
 Operator : VL  
 Sample : VL953DP1  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

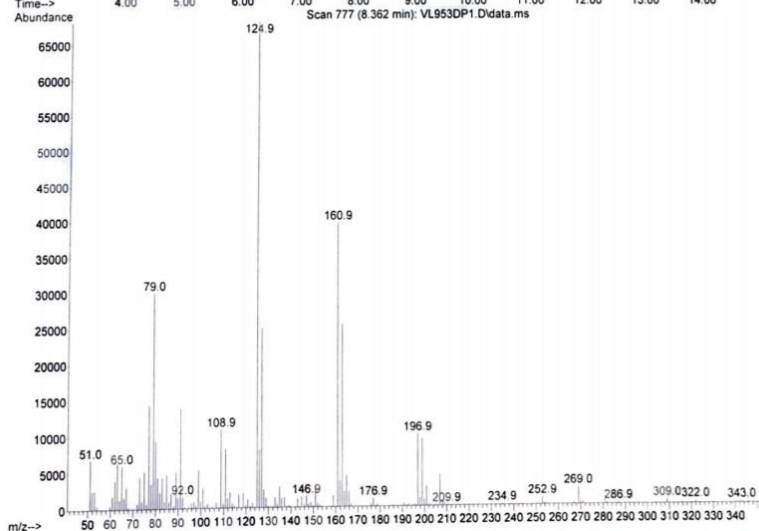
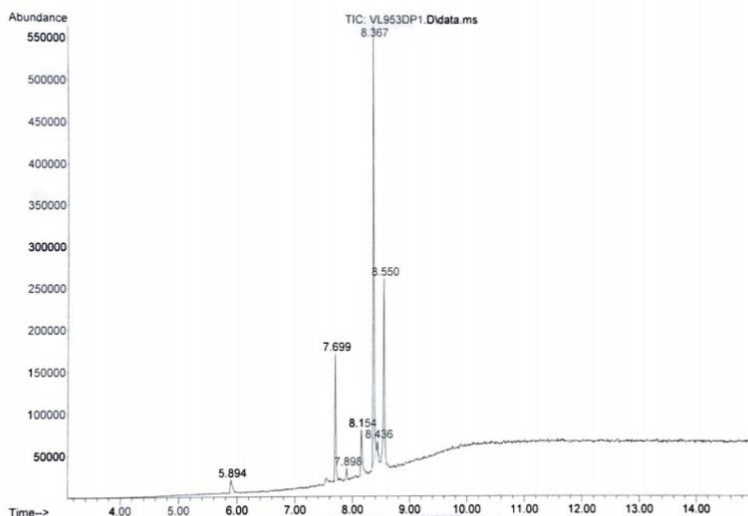
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL953DP1.D\data.ms

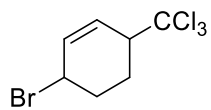
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.894	410	414	430	M	15620	392649	6.29%	2.955%
2	7.699	676	679	688	M	158023	1954009	31.32%	14.707%
3	7.898	705	709	714	M2	12979	148611	2.38%	1.119%
4	8.154	742	746	760	M2	56103	1084410	17.38%	8.162%
5	8.367	773	778	785	M	527437	6238759	100.00%	46.955%
6	8.436	786	788	794	M4	13710	125477	2.01%	0.944%
7	8.550	796	805	816	M	227107	3342657	53.58%	25.158%

Sum of corrected areas: 13286572

hexadecenal.M Mon Oct 12 16:58:07 2020

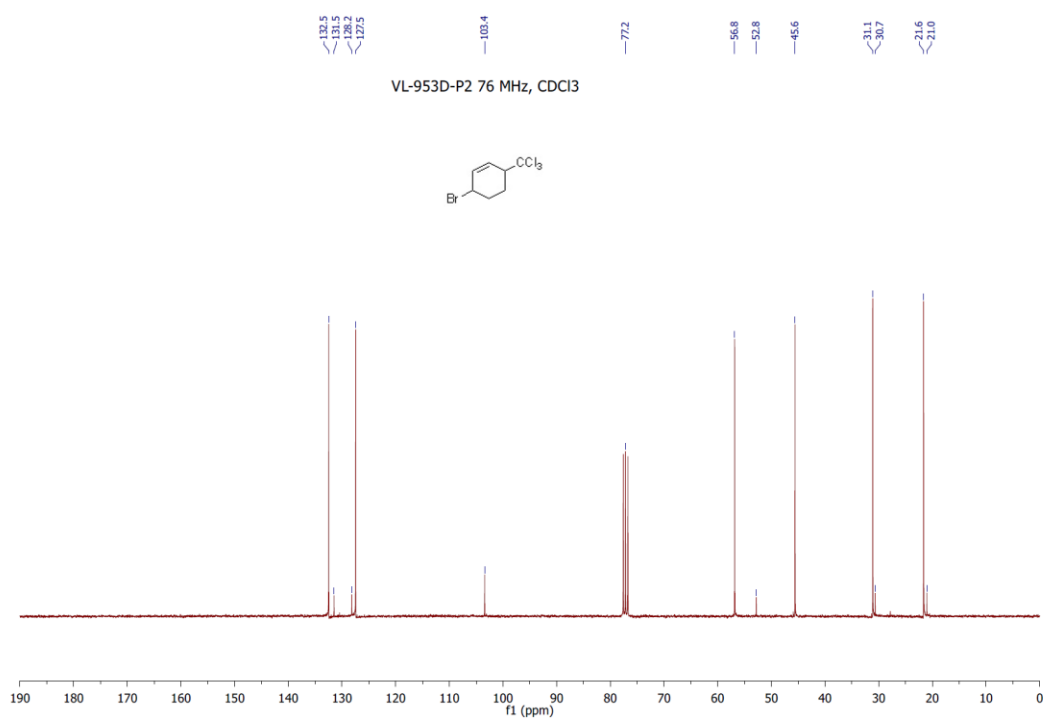
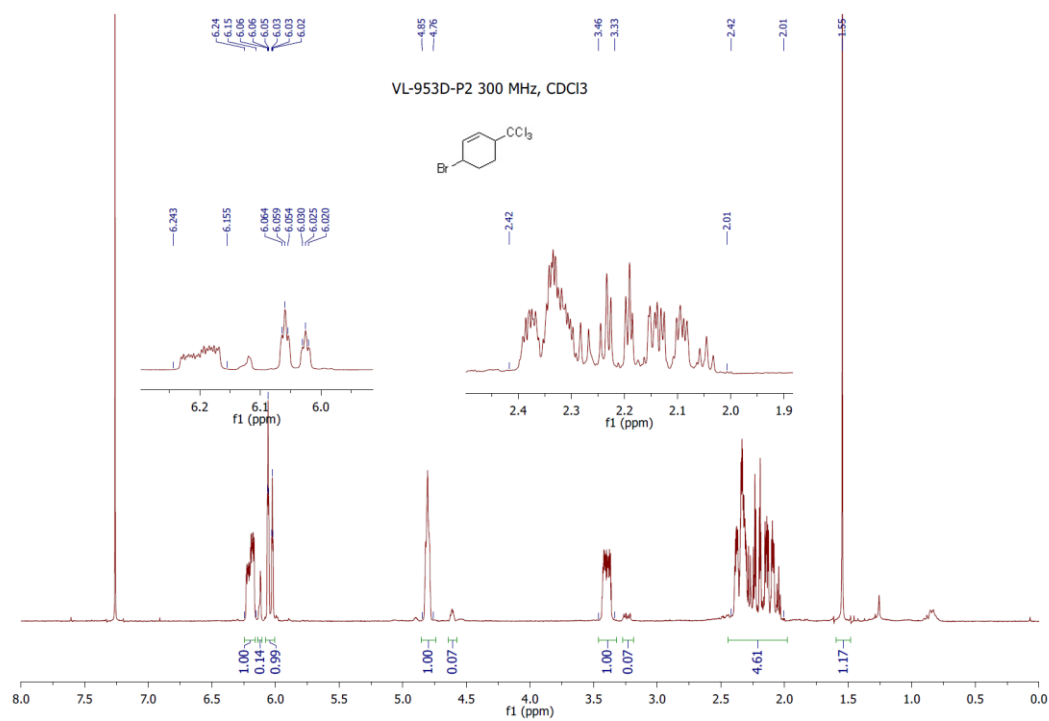




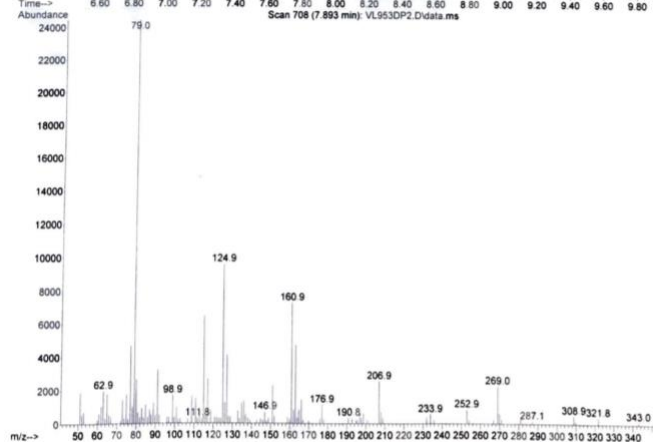
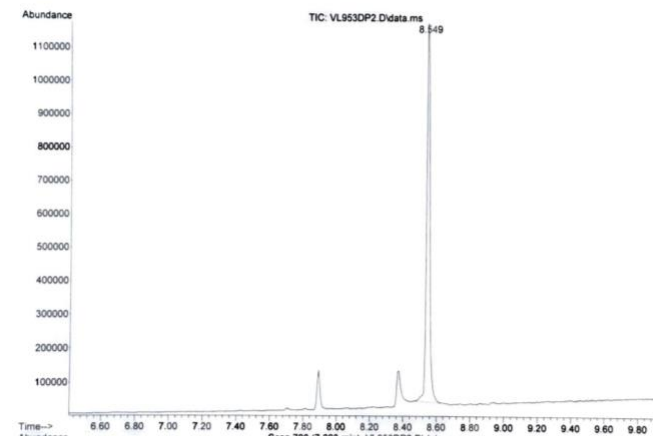


Chemical Formula:  $C_7H_8BrCl_3$

Molecular Weight: 278,40



File : D:\DataMS\2017\08-2017\25082017\VL953DP2.D  
 Operator : VL  
 Acquired : 25 Aug 2017 17:03 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name : VL953DP2  
 Misc Info :  
 Vial Number : 20



# Area Percent Report

Data Path : D:\DataMS\2017\08-2017\25082017\  
 Data File : VL953DP2.D  
 Acq On : 25 Aug 2017 17:03  
 Operator : VL  
 Sample : VL953DP2  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

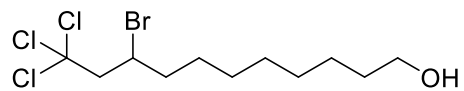
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL953DP2.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.893	704	708	713	M	116687	1389076	9.16%	7.553%
2	8.373	775	779	791	M	105268	1838245	12.12%	9.995%
3	8.546	800	804	815	M	1262993	15163731	100.00%	82.452%

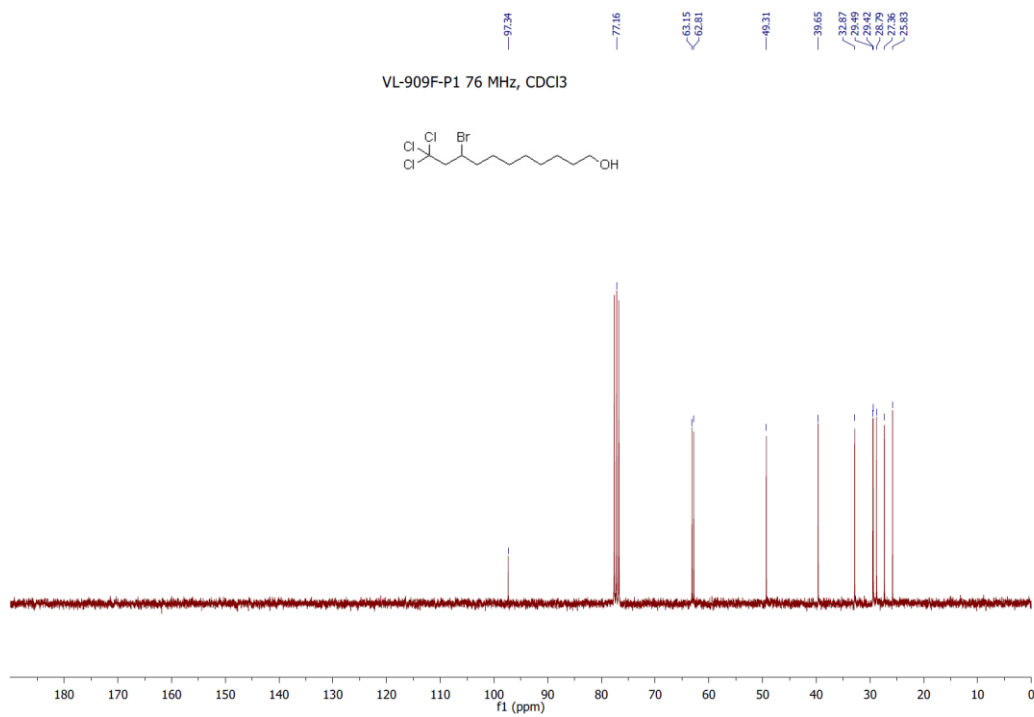
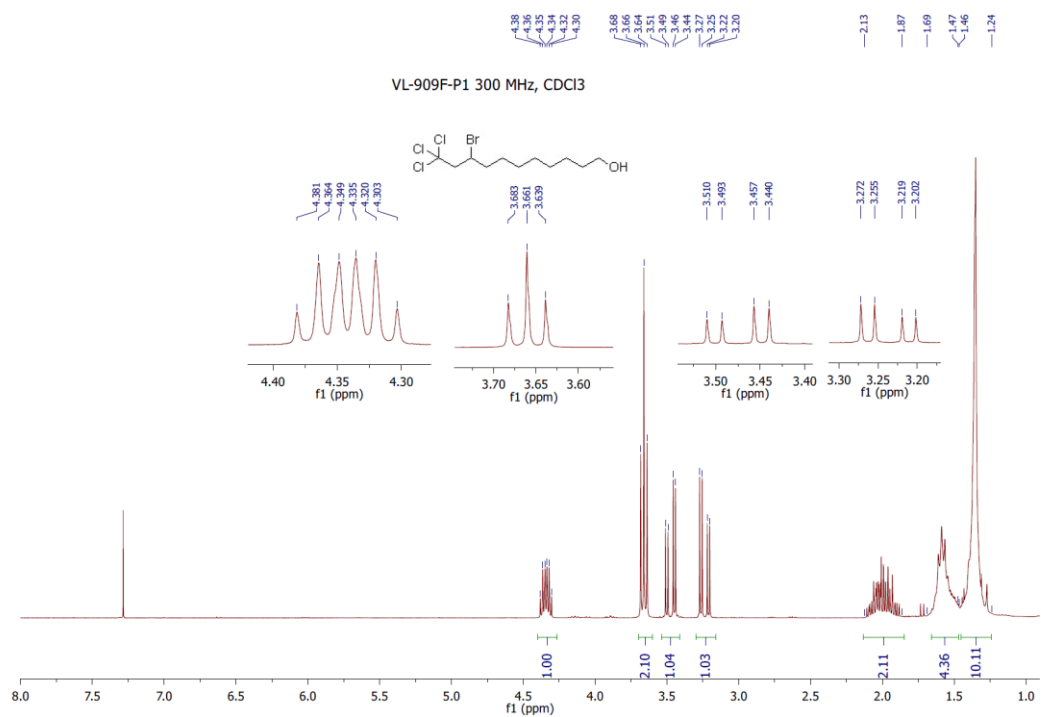
Sum of corrected areas: 18391053

hexadecenal.M Mon Oct 12 16:57:09 2020

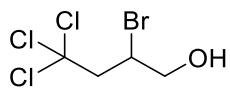


Chemical Formula: C<sub>11</sub>H<sub>20</sub>BrCl<sub>3</sub>O

Molecular Weight: 354,53

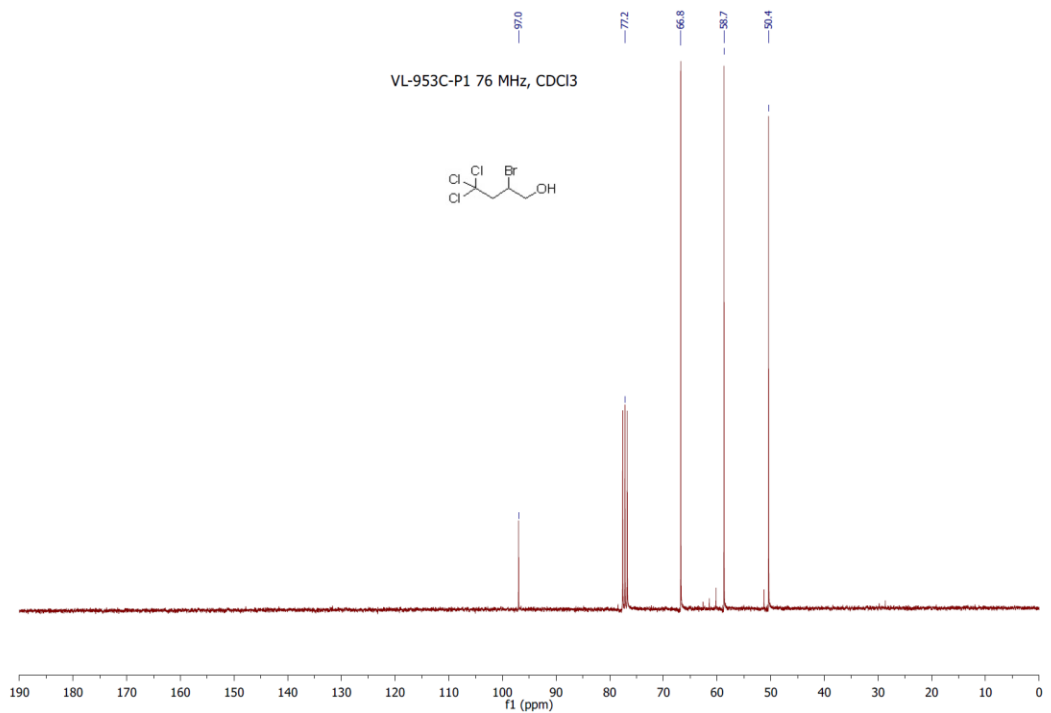
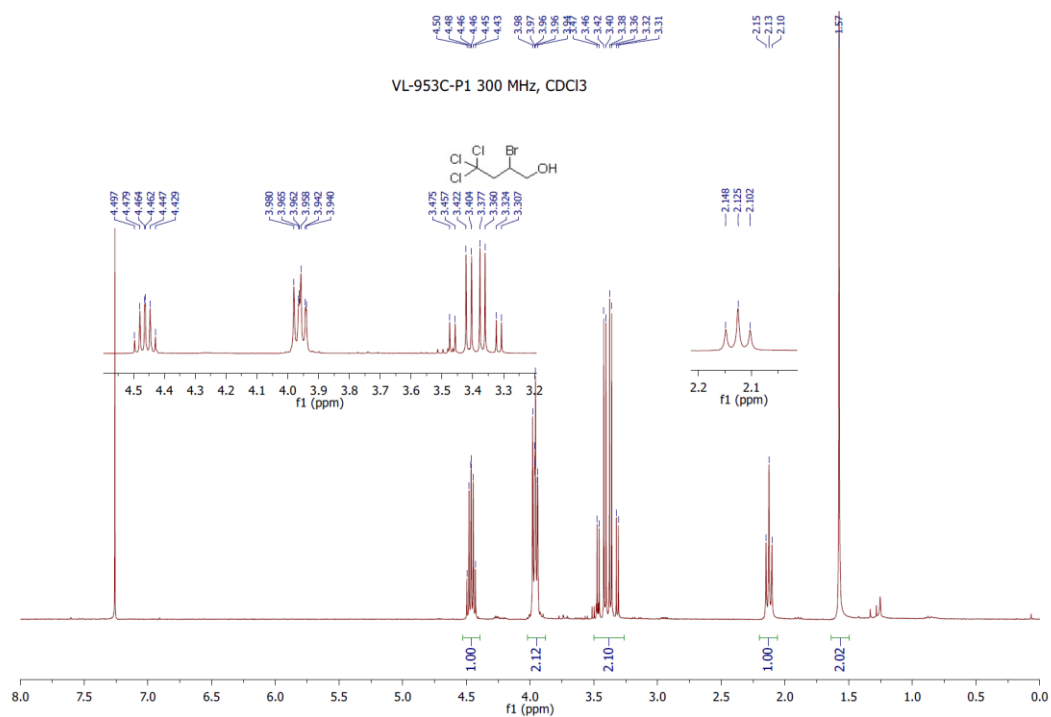


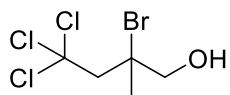
HRMS



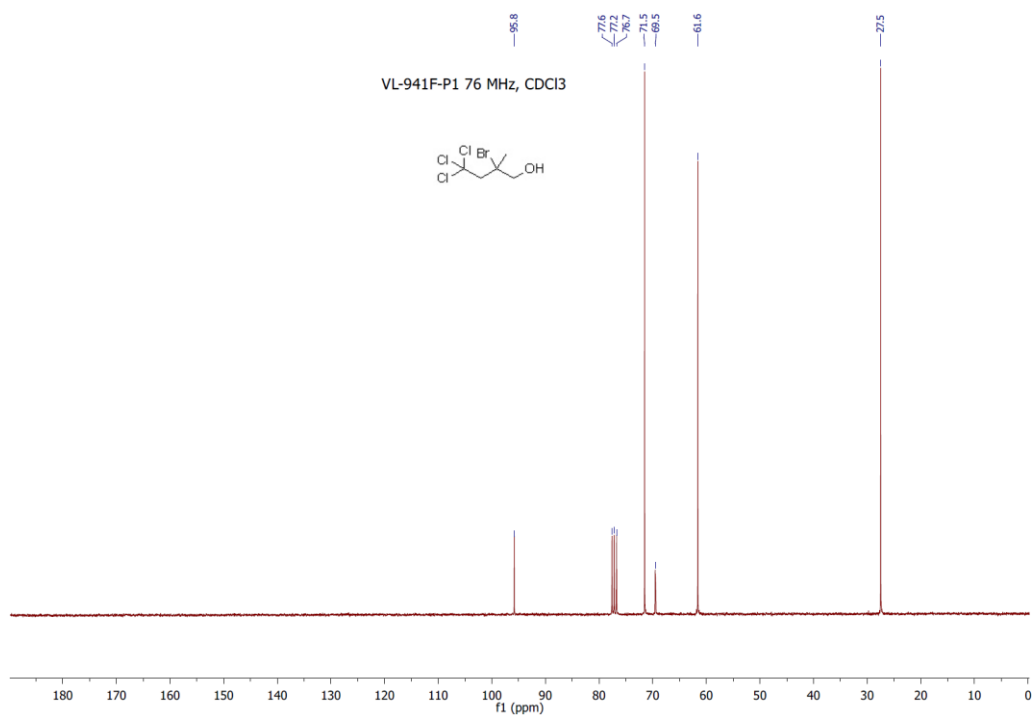
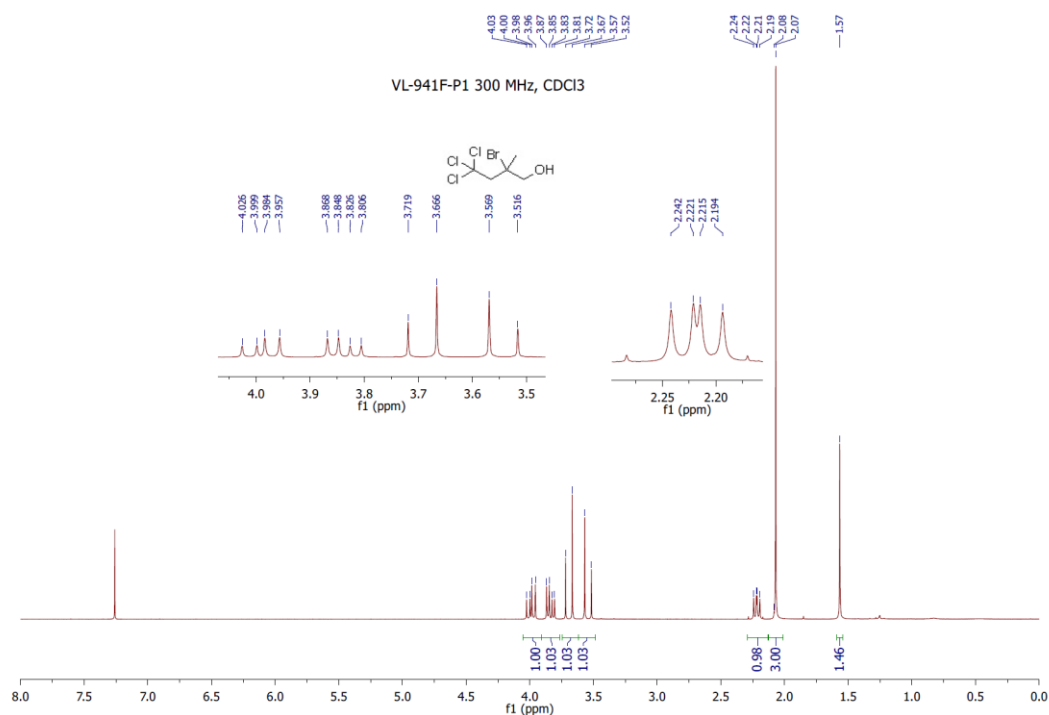
Chemical Formula: C<sub>4</sub>H<sub>6</sub>BrCl<sub>3</sub>O

Molecular Weight: 256,35

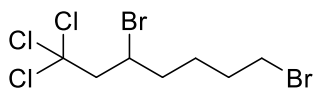




Chemical Formula: C<sub>5</sub>H<sub>8</sub>BrCl<sub>3</sub>O  
Molecular Weight: 270,37

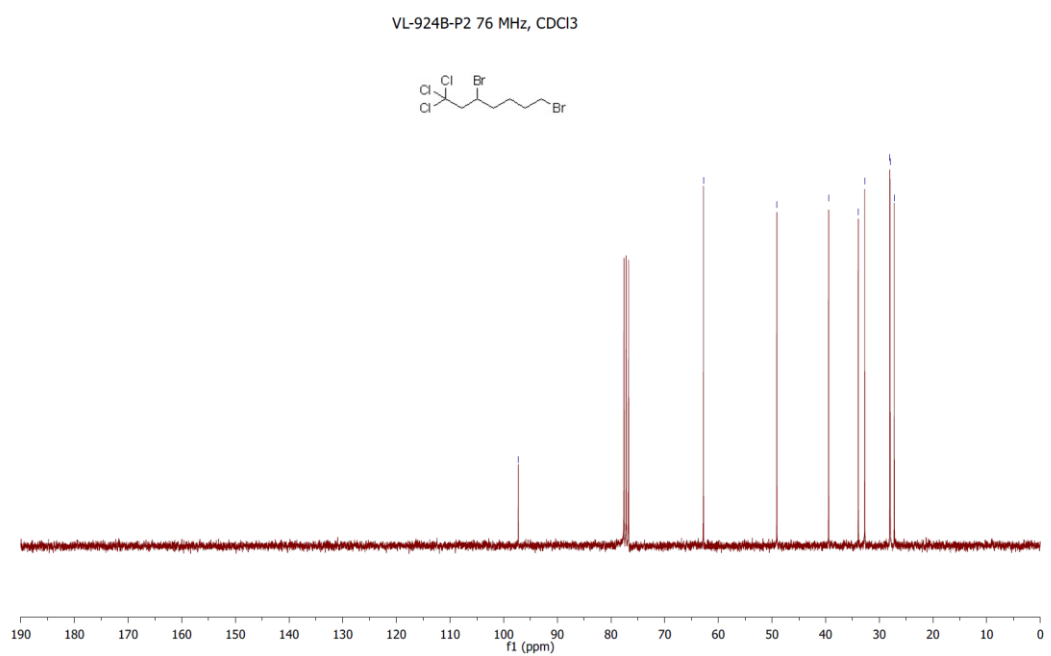
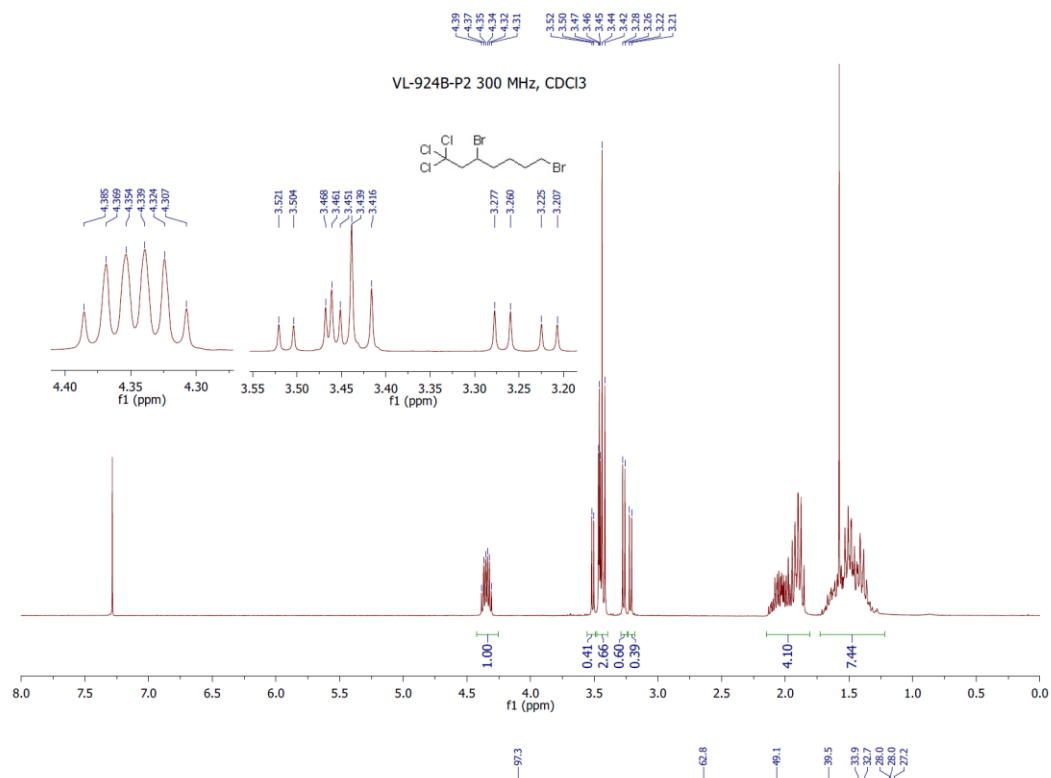


HRMS



Chemical Formula:  $C_7H_{11}Br_2Cl_3$

Molecular Weight: 361,32



## Area Percent Report

File :D:\DataMS\2017\08-2017\25082017\VL924BP2.D  
Operator : VL  
Acquired : 25 Aug 2017 17:39 using AcqMethod NORMAL.M  
Instrument : 7890 5975  
Sample Name : VL924BP2  
Misc Info :  
Vial Number: 22

Data Path : D:\DataMS\2017\08-2017\25082017\  
Data File : VL924BP2.D  
Acq On : 25 Aug 2017 17:39  
Operator : VL  
Sample : VL924BP2  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: autoint1.e  
Integrator: ChemStation

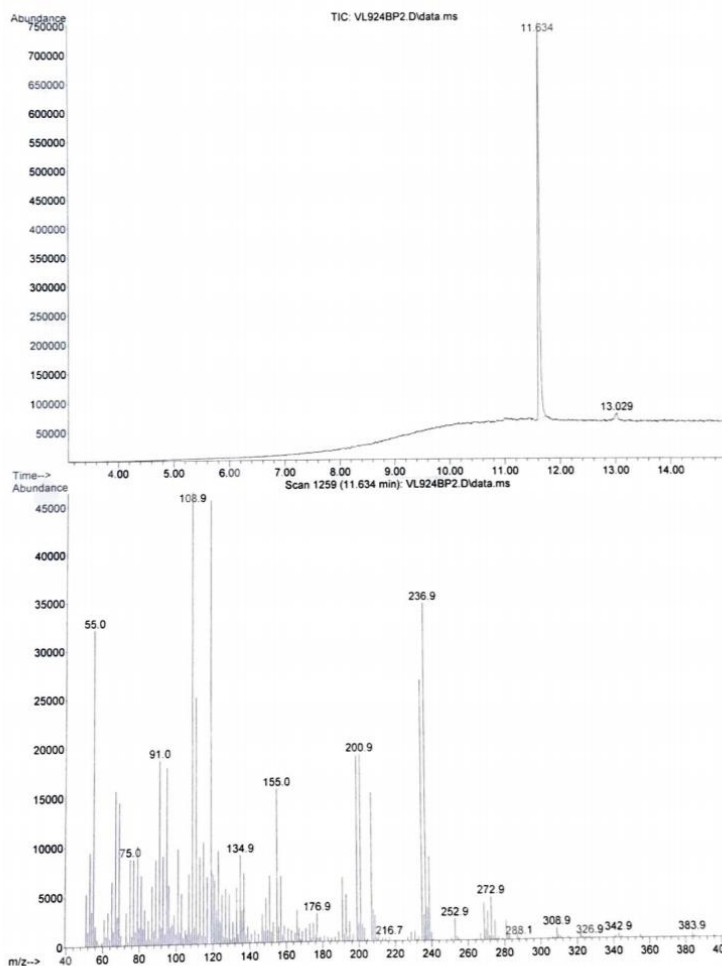
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
Title :

Signal : TIC: VL924BP2.D\data.ms

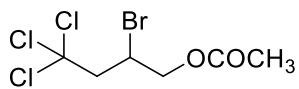
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	11.634	1252	1259	1279	M	685219	14476579	100.00%	97.743%
2	13.029	1453	1465	1469	M	11846	334290	2.31%	2.257%

Sum of corrected areas: 14810869

hexadecenal.M Mon Oct 12 16:54:26 2020

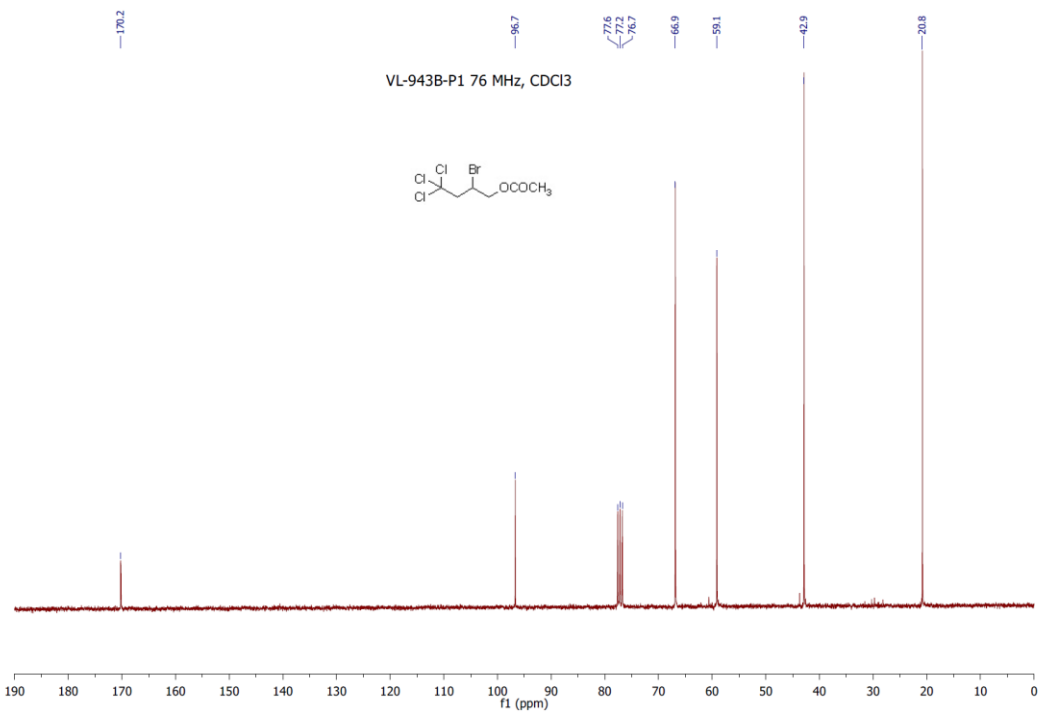
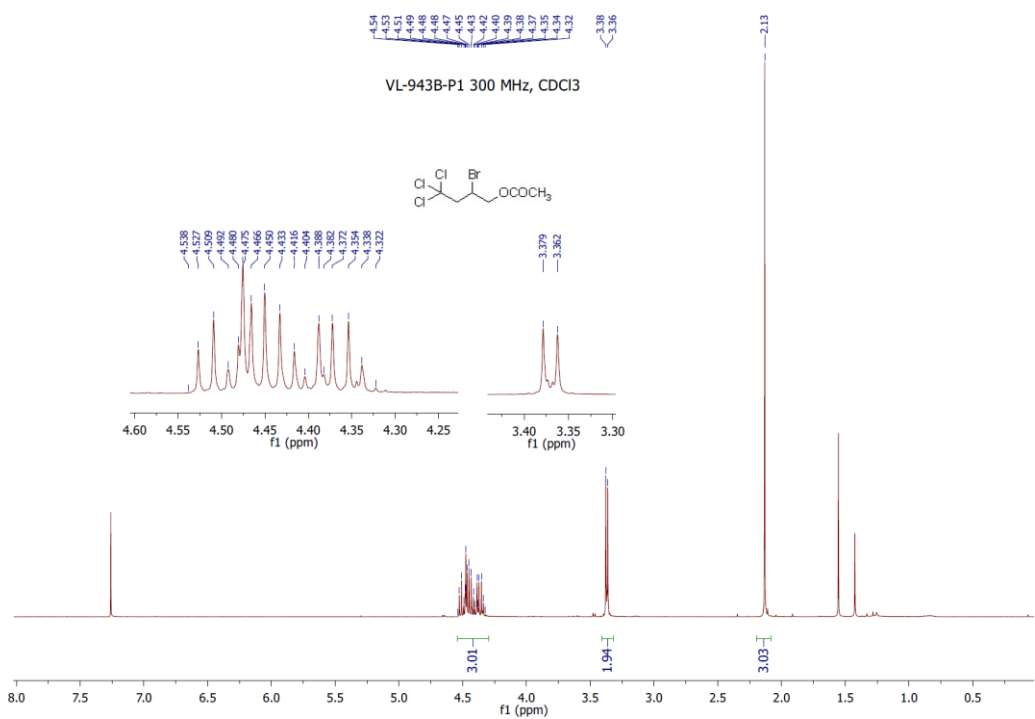


HRMS



Chemical Formula:  $C_6H_8BrCl_3O_2$

Molecular Weight: 298,38





File :D:\DataMS\2017\07-2017\20-07-2017\VL943B-P1.D  
 Operator : VL  
 Acquired : 20 Jul 2017 19:39 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL943B-P1  
 Misc Info :  
 Vial Number: 17

Area Percent Report

Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
 Data File : VL943B-P1.D  
 Acq On : 20 Jul 2017 19:39  
 Operator : VL  
 Sample : VL943B-P1  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

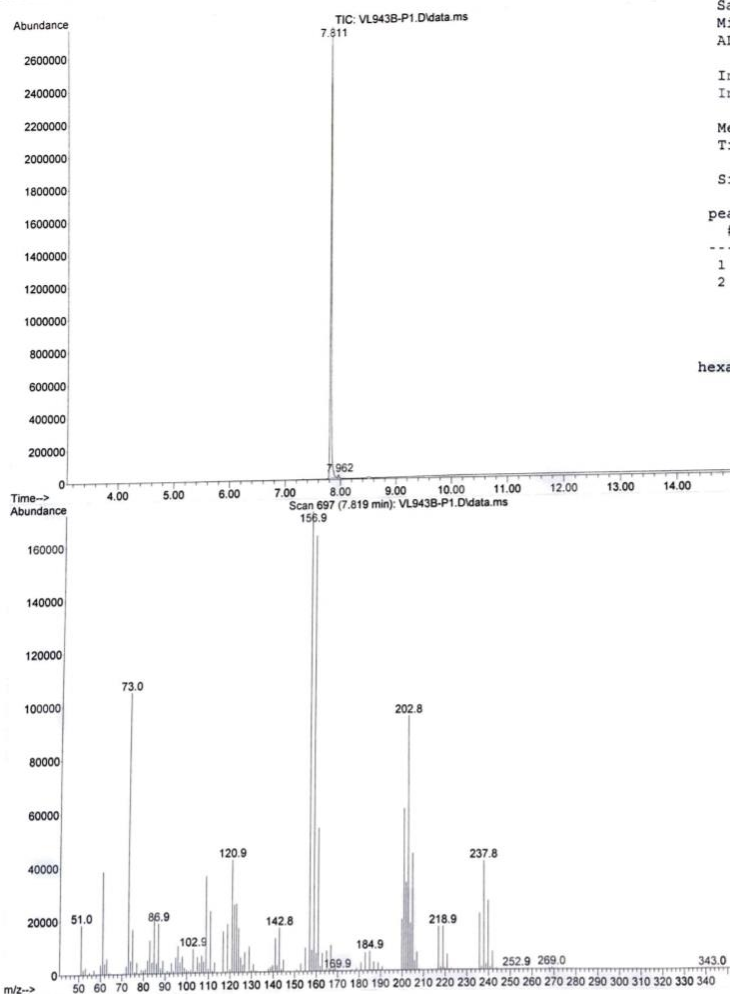
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

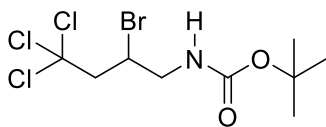
Signal : TIC: VL943B-P1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.811	691	696	711	M	2783608	34494690	100.00%	99.295%
2	7.962	715	718	721	M2	20191	244945	0.71%	0.705%

Sum of corrected areas: 34739635

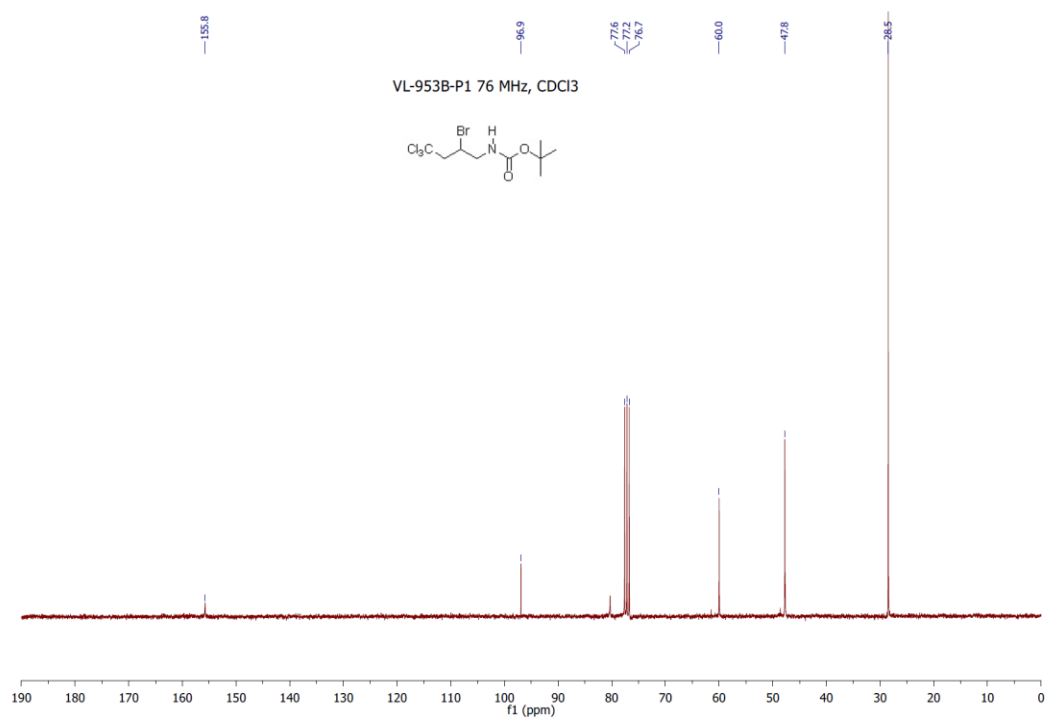
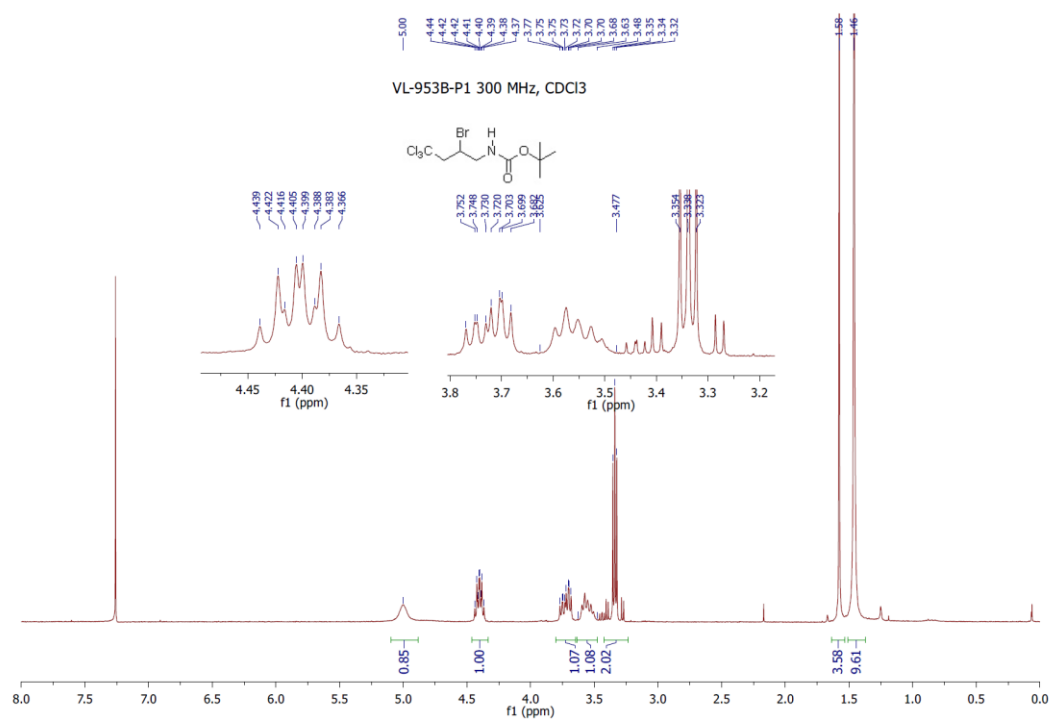
hexadecenal.M Mon Oct 12 17:09:49 2020





Chemical Formula:  $C_9H_{15}BrCl_3NO_2$

Molecular Weight: 355,48



File :D:\DataMS\2017\08-2017\25082017\VL953BP1.D  
 Operator : VL  
 Acquired : 25 Aug 2017 17:58 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL953BP1  
 Misc Info :  
 Vial Number: 23

# Area Percent Report

Data Path : D:\DataMS\2017\08-2017\25082017\  
 Data File : VL953BP1.D  
 Acq On : 25 Aug 2017 17:58  
 Operator : VL  
 Sample : VL953BP1  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

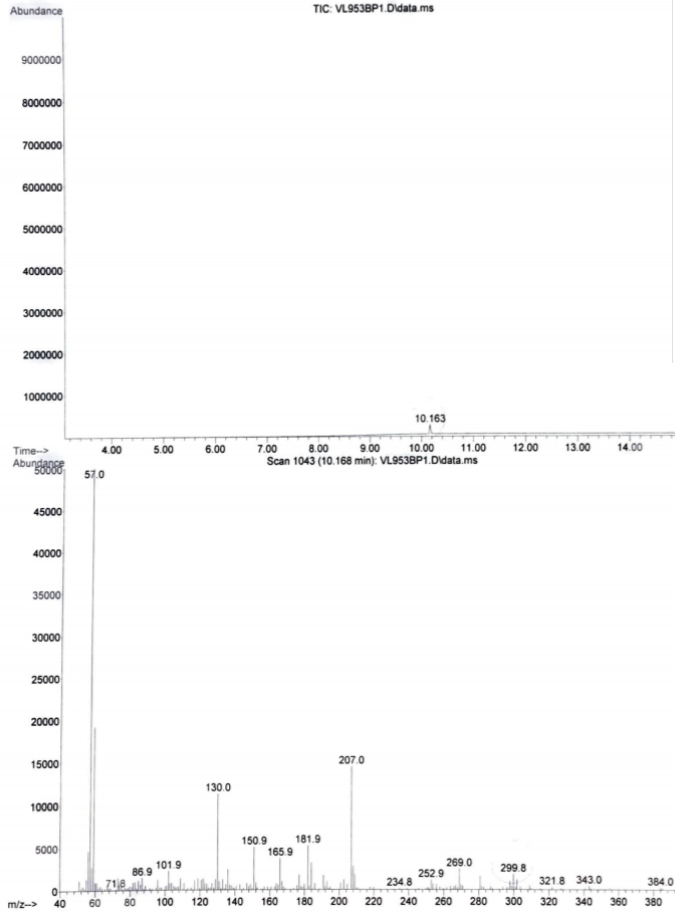
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL953BP1.D\data.ms

peak #	R.T.	first min	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	10.160	1036	1042	1055	M	223039	3692113	100.00%	100.000%

Sum of corrected areas: 3692113

hexadecenal.M Mon Oct 12 17:12:28 2020

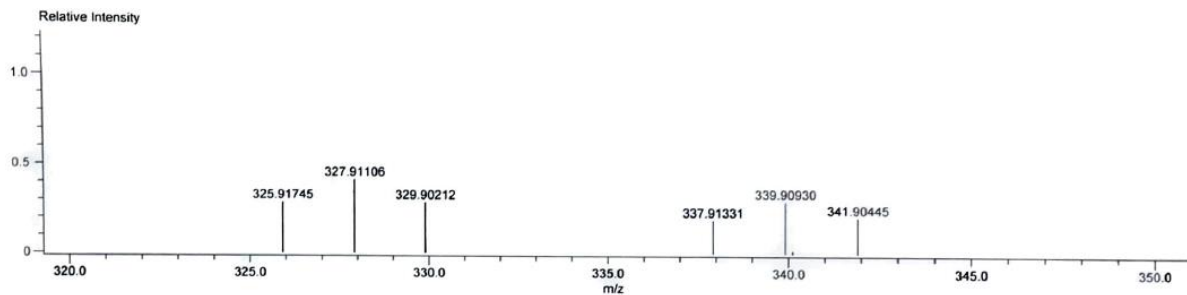


Data CI-240620-VL953BP  
 Sample Name:  
 Description:  
 Ionization Mode:CI+  
 History: Determine m/z[Peak Detect[Centroid,30,Area]].Correct Base[.Average(MS[1] 10.62..10.66)

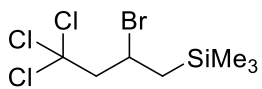
Acquired 6/24/2020 2:05:32 PM  
 Operator:AccuTof  
 Mass Calibration data:CAL-291118-CAL-EI-class4  
 Created 6/24/2020 5:43:27 PM  
 Created by:AccuTof

Charge number:1  
 Element:<sup>12</sup>C:0..50, <sup>1</sup>H:0..100, <sup>81</sup>Br:1..1, <sup>35</sup>Cl:3..3, <sup>14</sup>N:1..1, <sup>16</sup>O:0..2  
 Tolerance:50.00(ppm)

Unsaturation Number:-1000.0..2000.0 (Fraction:Both)

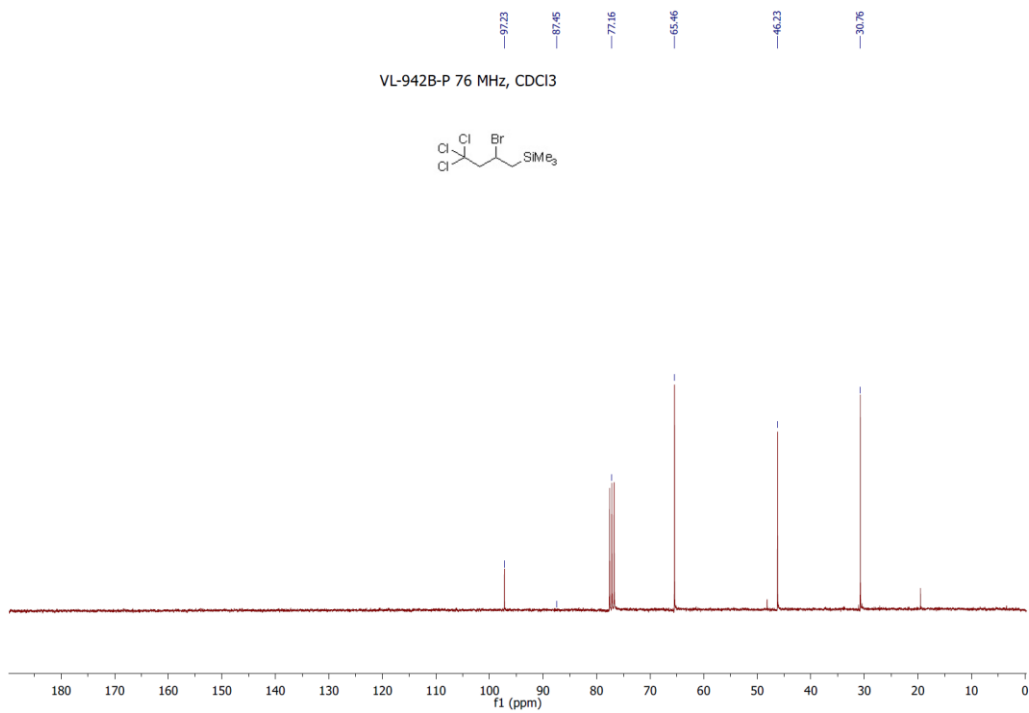
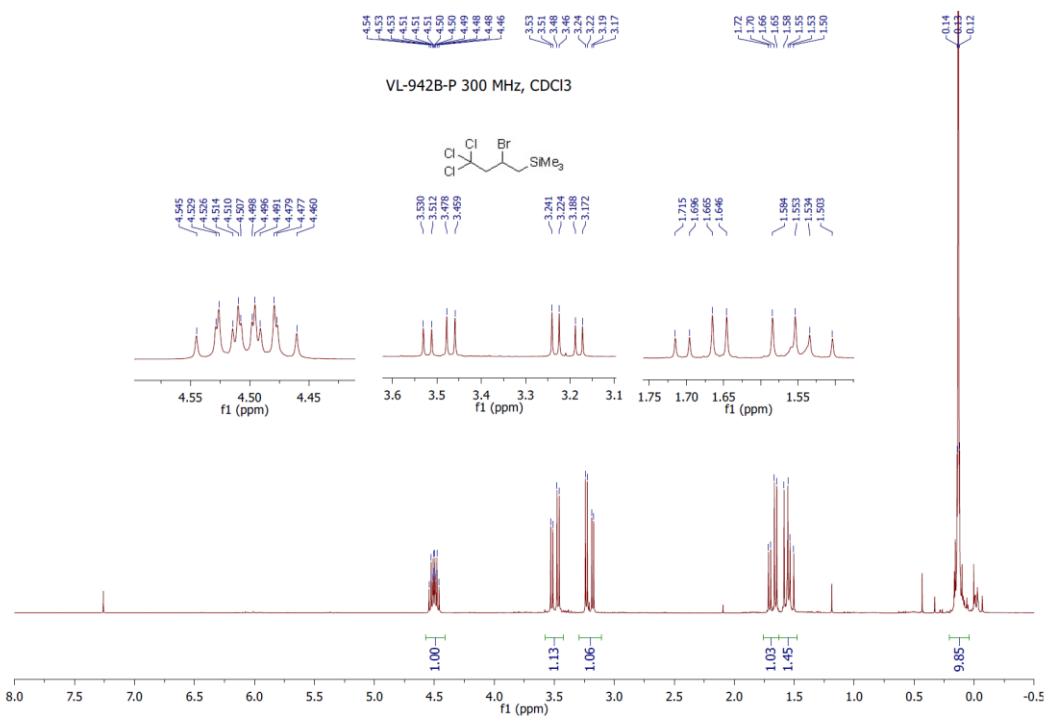


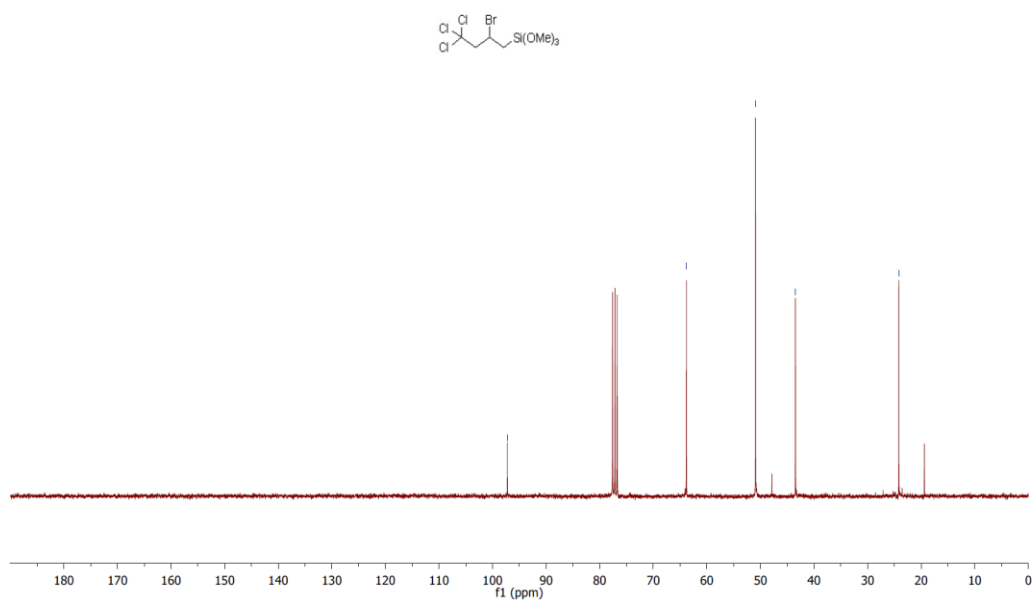
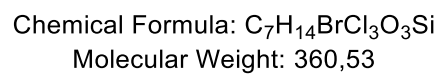
Mass	Intensity	Calc. Mass	Mass Difference (ppm)	Possible Formula	Unsaturation Number
339.90930	666.56	339.90965	-1.03	<sup>12</sup> C <sub>8</sub> <sup>1</sup> H <sub>12</sub> <sup>81</sup> Br <sub>1</sub> <sup>35</sup> Cl <sub>3</sub> <sup>14</sup> N <sub>1</sub> <sup>16</sup> O <sub>2</sub>	1.5



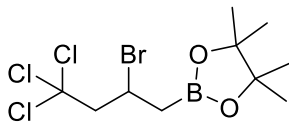
Chemical Formula: C<sub>7</sub>H<sub>14</sub>BrCl<sub>3</sub>Si

Molecular Weight: 312,53



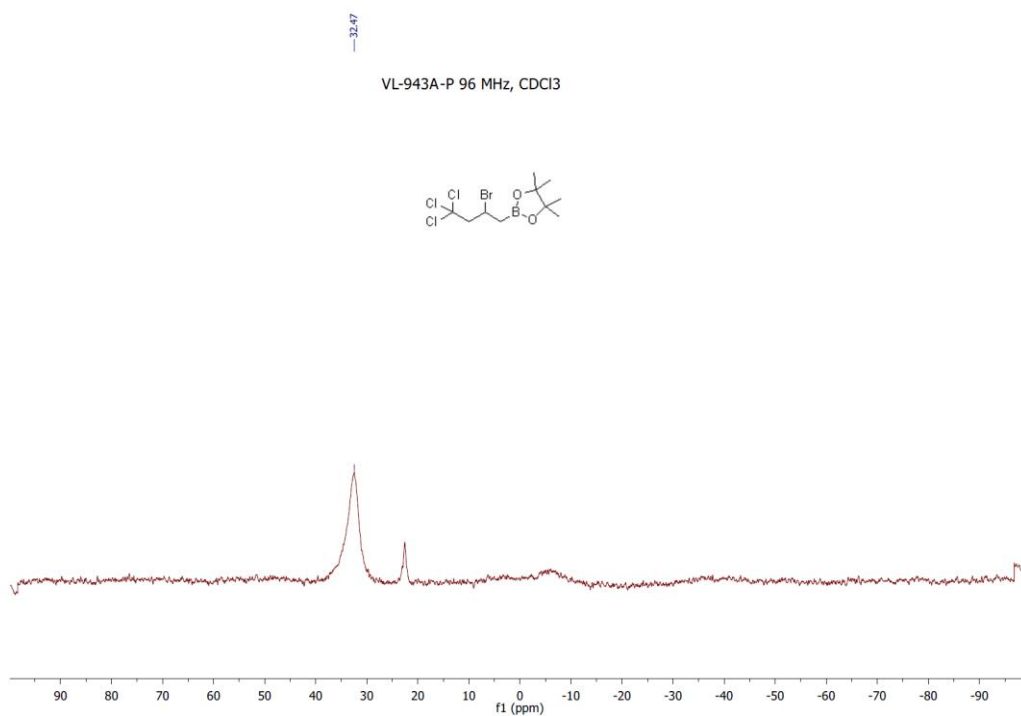
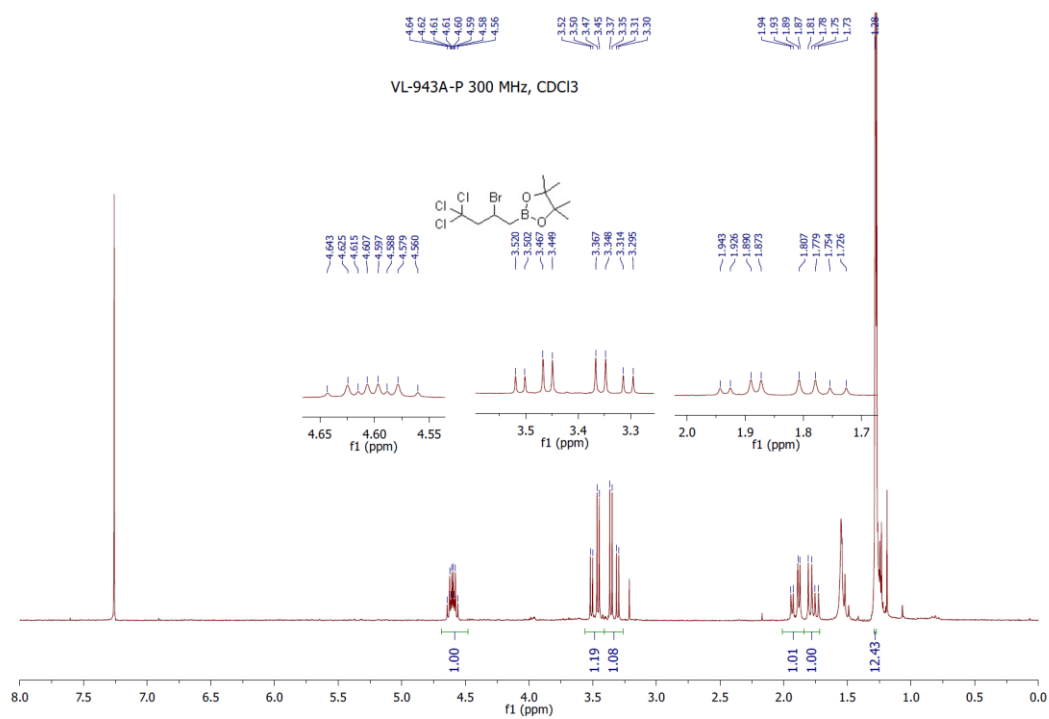


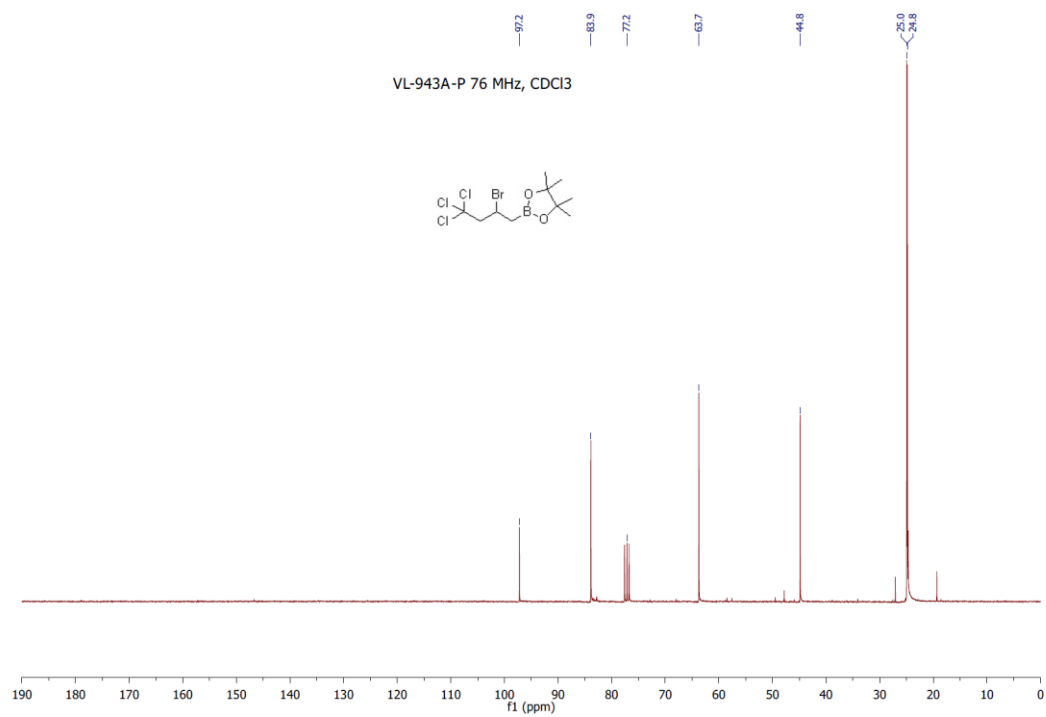
HRMS



Chemical Formula:  $C_{10}H_{17}BBBrCl_3O_2$

Molecular Weight: 366,31





File :D:\DataMS\2017\07-2017\20-07-2017\VL943A.D  
 Operator : VL  
 Acquired : 20 Jul 2017 21:10 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL943A  
 Misc Info :  
 Vial Number: 22

# Area Percent Report

Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
 Data File : VL943A.D  
 Acq On : 20 Jul 2017 21:10  
 Operator : VL  
 Sample : VL943A  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

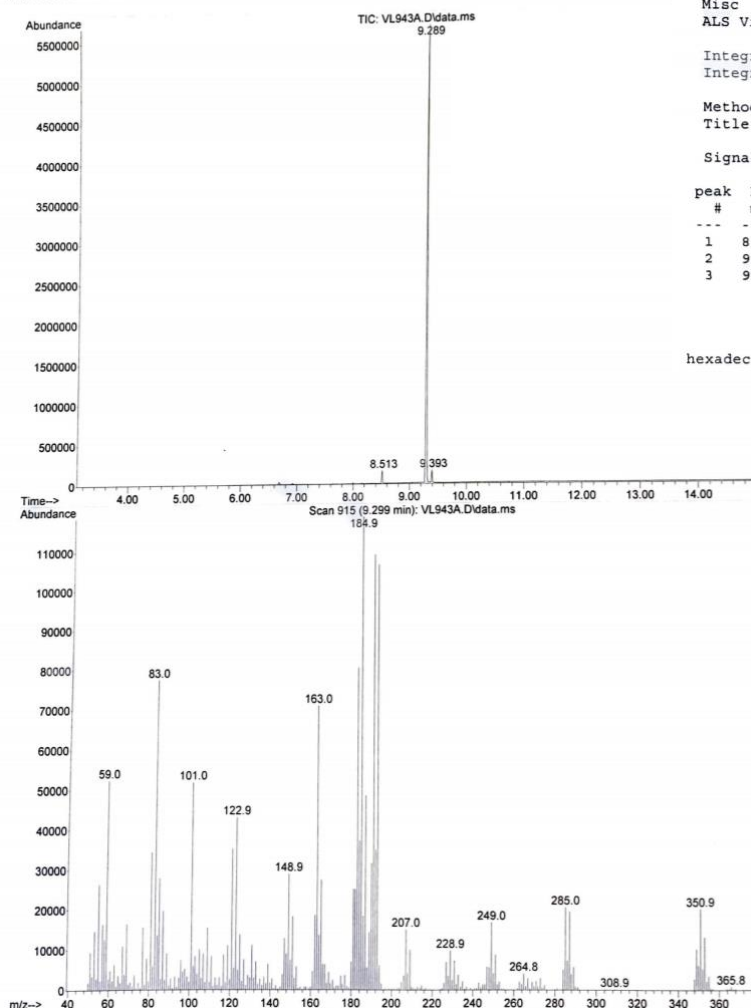
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL943A.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.513	797	799	803	M	160633	1457192	2.29%	2.183%
2	9.289	909	914	919	M	5985358	63679568	100.00%	95.387%
3	9.393	926	929	933	M	153844	1622065	2.55%	2.430%

Sum of corrected areas: 66758825

hexadecenal.M Mon Oct 12 17:13:09 2020



Data CI-210720-VL943A CONC

Sample Name:

Description:

Ionization Mode:CI+

History: Determine m/z[Peak Detect(Centroid,30,Area),Smooth(5)];Correct Base[];Average(MS[1] 10.08..10.09)

Charge number:1

Tolerance:50.00(ppm)

Element:<sup>12</sup>C:0..50, <sup>1</sup>H:0..100, <sup>10</sup>B:1..1, <sup>81</sup>Br:1..1, <sup>35</sup>Cl:3..3, <sup>14</sup>N:0..0, <sup>16</sup>O:2..2

Acquired:7/21/2020 11:08:39 AM

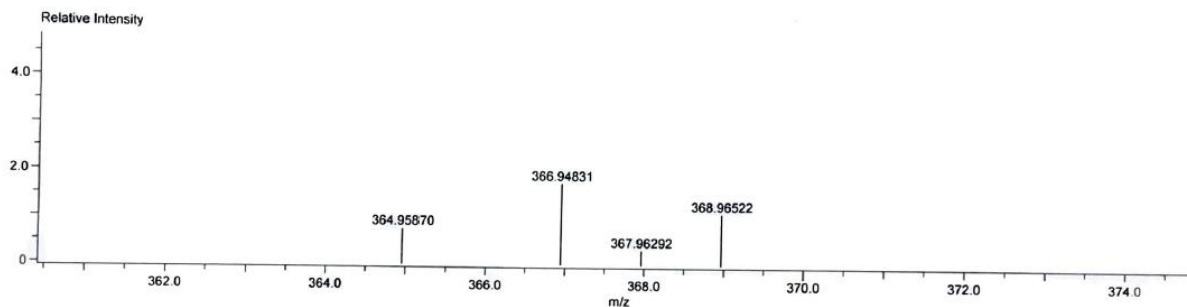
Operator:AccuTof

Mass Calibration data:CAL-291118-CAL-EI-class4

Created:7/21/2020 11:47:29 AM

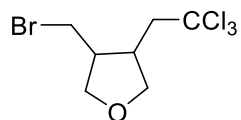
Created by:AccuTof

Unsaturation Number:-1000.0..2000.0 (Fraction:Both)



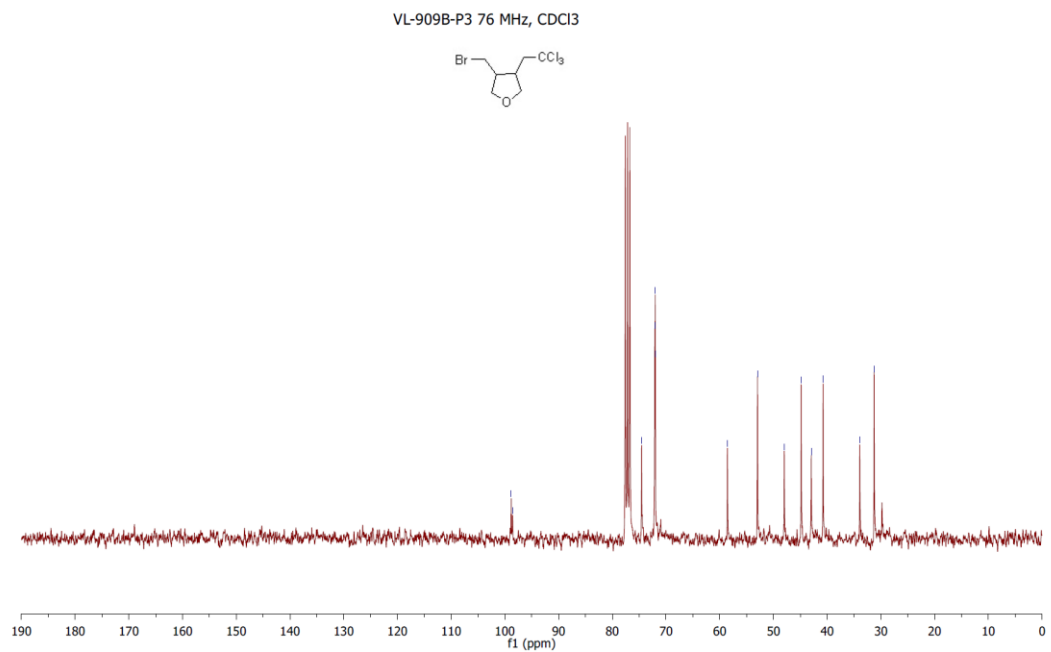
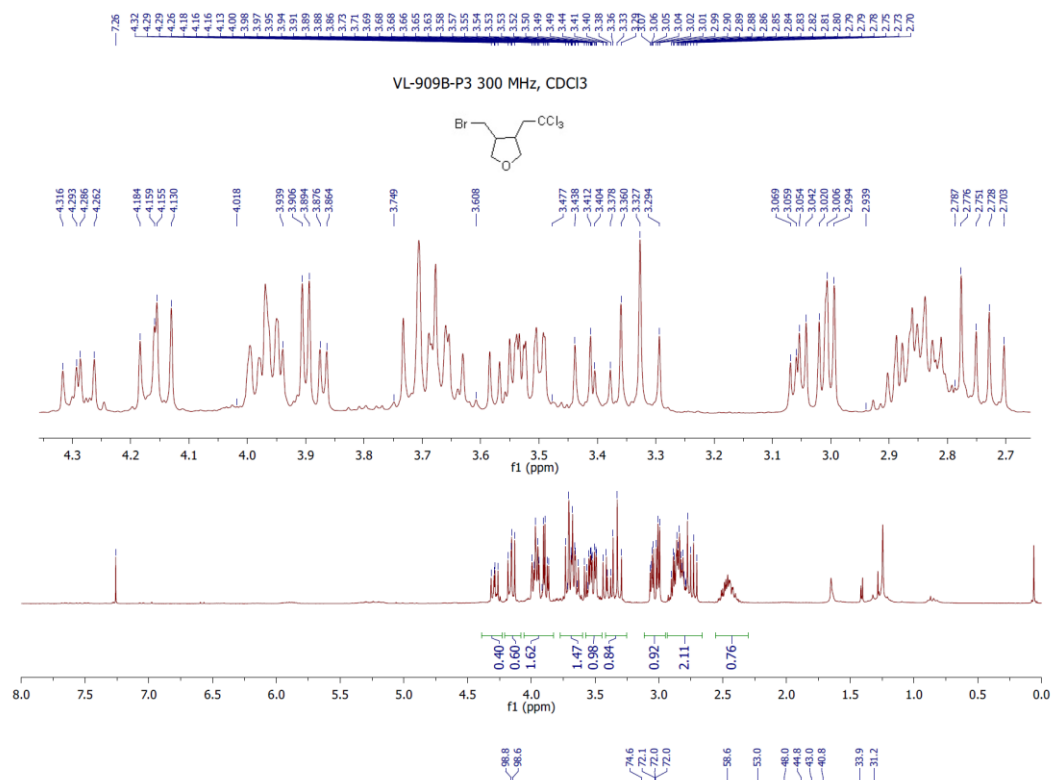
Mass	Intensity	Calc. Mass	Mass Difference (ppm)	Possible Formula	Unsaturation Number
364.95870	351.33	364.95864	0.15	<sup>12</sup> C <sub>10</sub> <sup>1</sup> H <sub>17</sub> <sup>10</sup> B <sub>1</sub> <sup>81</sup> Br <sub>1</sub> <sup>35</sup> Cl <sub>3</sub> <sup>16</sup> O <sub>2</sub>	1.0



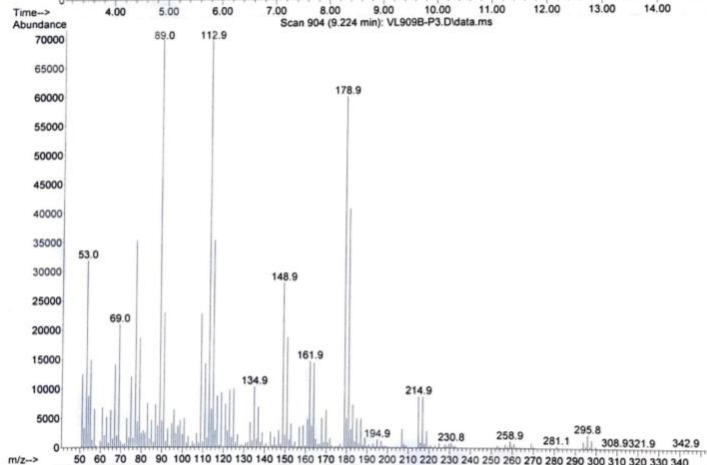
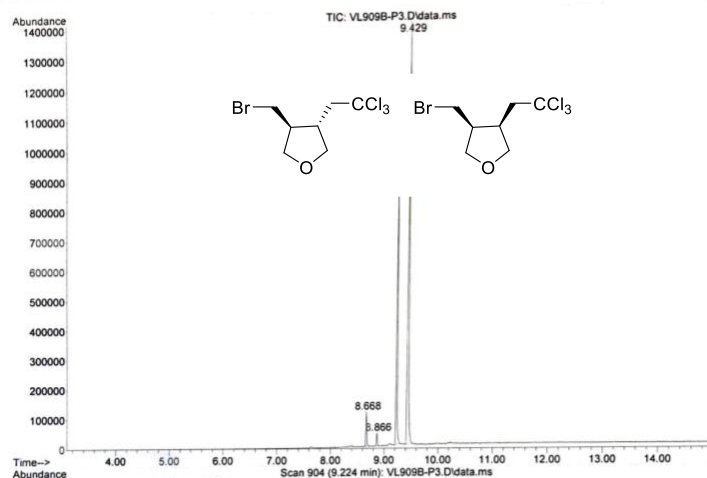


Chemical Formula: C<sub>7</sub>H<sub>10</sub>BrCl<sub>3</sub>O

Molecular Weight: 296,41



File :D:\DataMS\2017\07-2017\20-07-2017\VL909B-P3.D  
 Operator : VL  
 Acquired : 20 Jul 2017 22:24 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name: VL909B-P3  
 Misc Info :  
 Vial Number: 26



# Area Percent Report

Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
 Data File : VL909B-P3.D  
 Acq On : 20 Jul 2017 22:24  
 Operator : VL  
 Sample : VL909B-P3  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

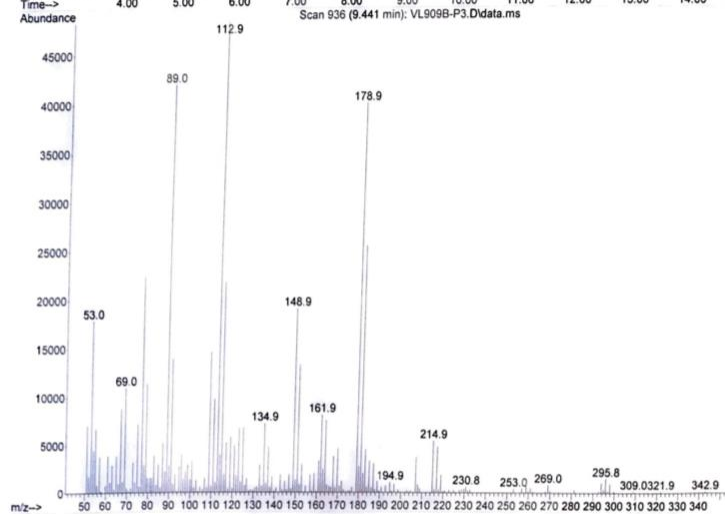
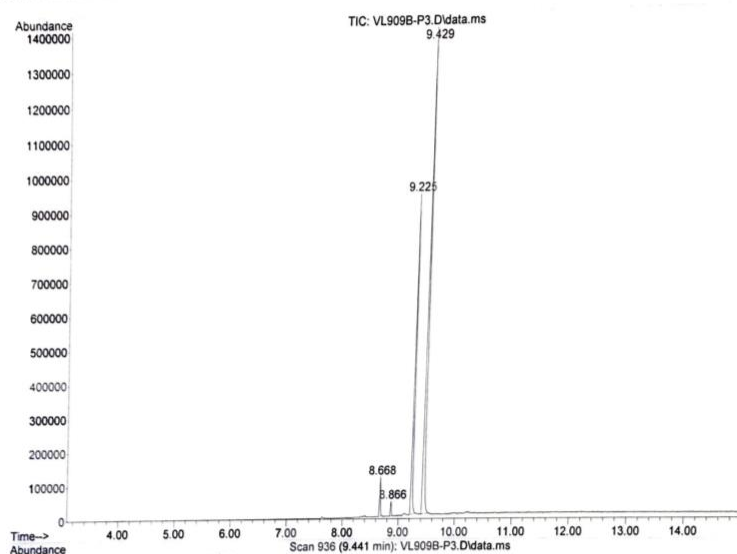
Signal : TIC: VL909B-P3.D\data.ms

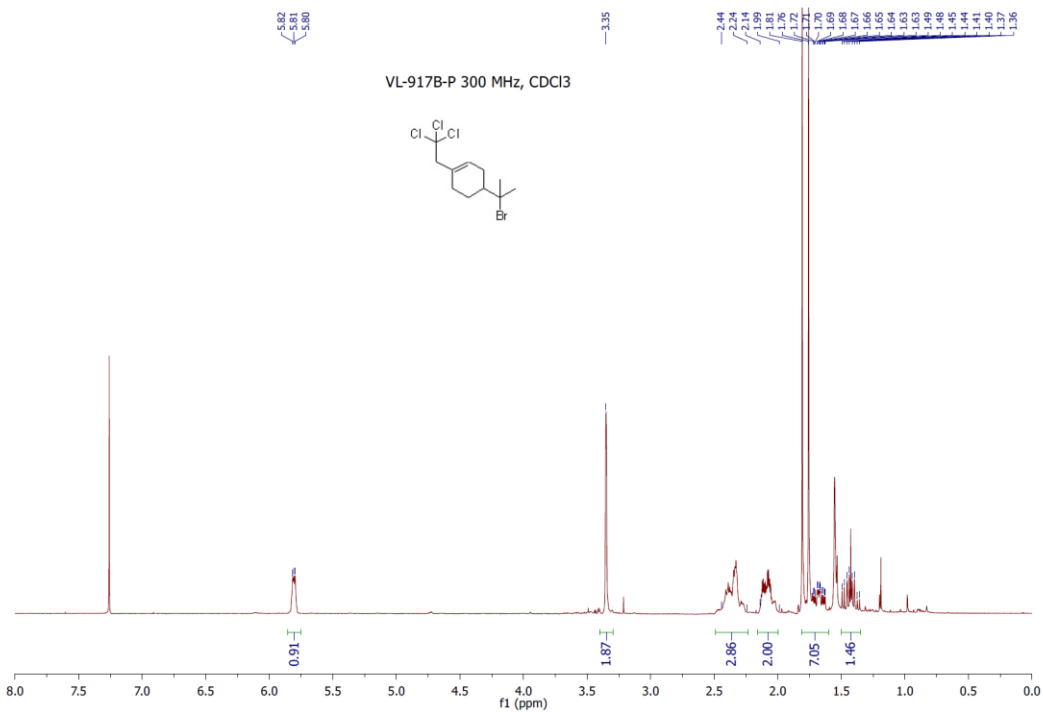
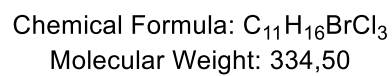
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.668	819	822	829	M	115902	1257455	6.28%	3.831%
2	8.866	848	851	855	M2	45511	500668	2.50%	1.525%
3	9.225	900	904	914	M	949932	11038741	55.13%	33.633%
4	9.429	930	934	949	M	1420660	20024082	100.00%	61.010%

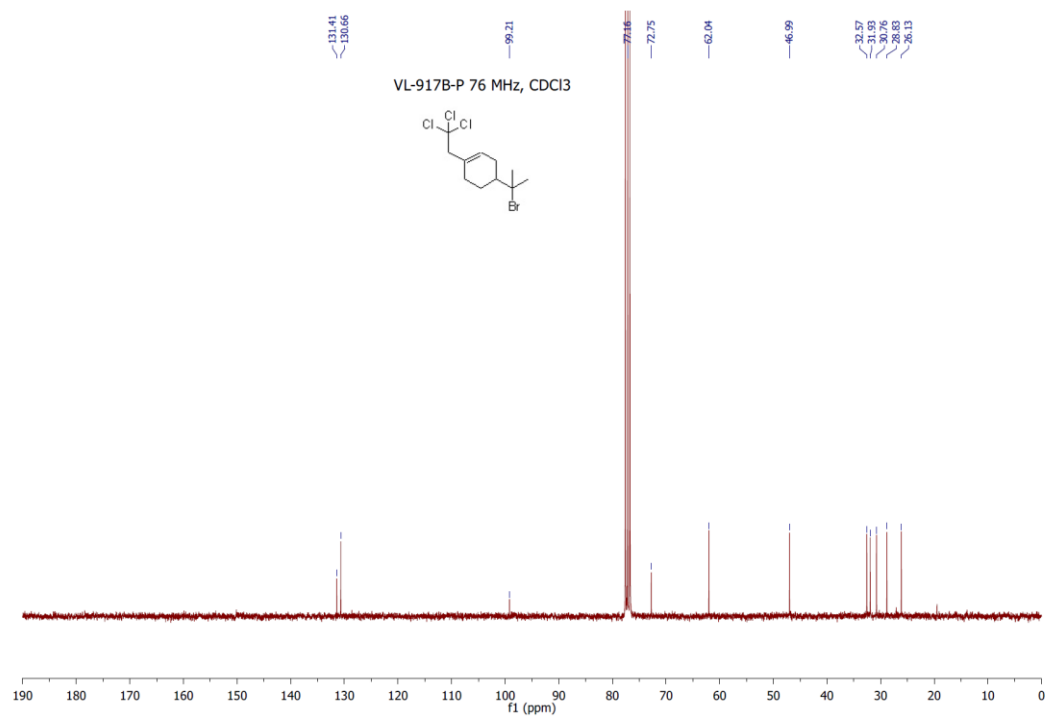
Sum of corrected areas: 32820946

hexadecenal.M Mon Oct 12 17:09:04 2020

File :D:\DataMS\2017\07-2017\20-07-2017\VL909B-P3.D  
Operator : VL  
Acquired : 20 Jul 2017 22:24 using AcqMethod NORMAL.M  
Instrument : 7890 5975  
Sample Name: VL909B-P3  
Misc Info :  
Vial Number: 26







## Area Percent Report

File :D:\DataMS\2017\07-2017\20-07-2017\VL917B-P.D  
Operator : VL  
Acquired : 20 Jul 2017 21:47 using AcqMethod NORMAL.M  
Instrument : 7890 5975  
Sample Name: VL917B-P  
Misc Info :  
Vial Number: 24

Data Path : D:\DataMS\2017\07-2017\20-07-2017\  
Data File : VL917B-P.D  
Acq On : 20 Jul 2017 21:47  
Operator : VL  
Sample : VL917B-P  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: autoint1.e  
Integrator: ChemStation

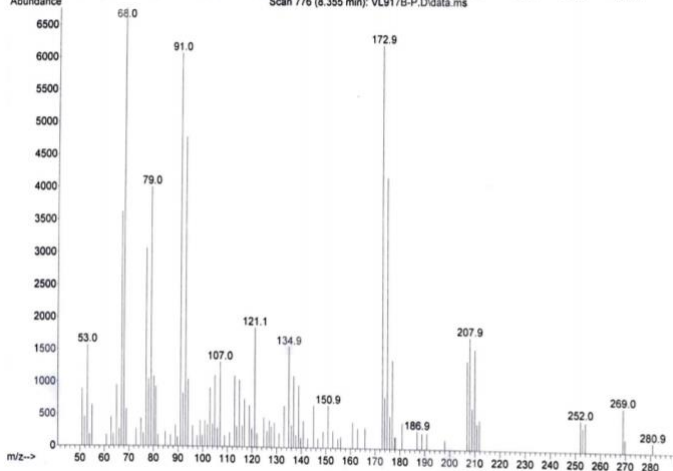
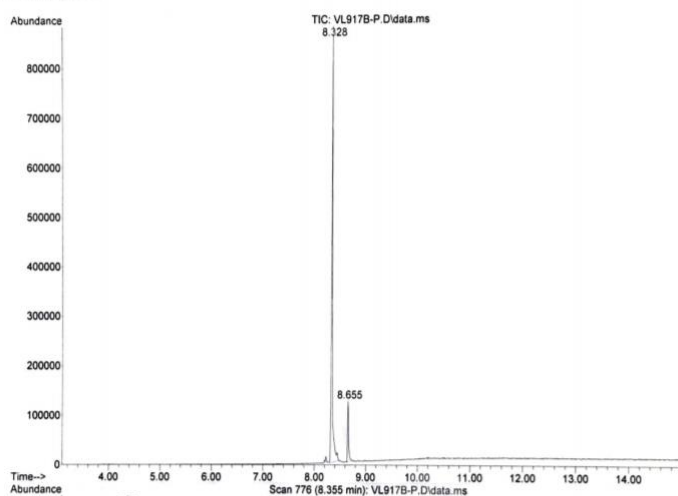
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
Title :

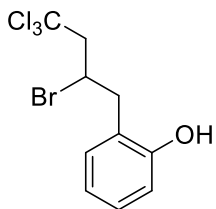
Signal : TIC: VL917B-P.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.328	767	772	795	M	876441	12589634	100.00%	87.307%
2	8.655	816	820	834	M	123438	1830285	14.54%	12.693%

Sum of corrected areas: 14419919

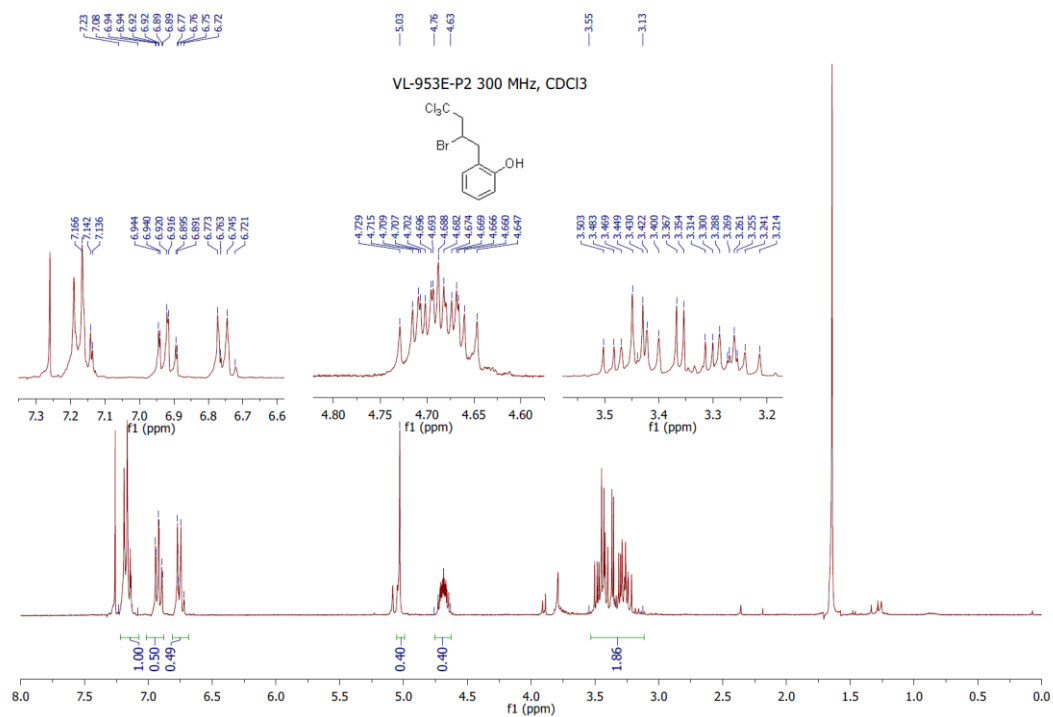
hexadecenal.M Mon Oct 12 17:07:37 2020

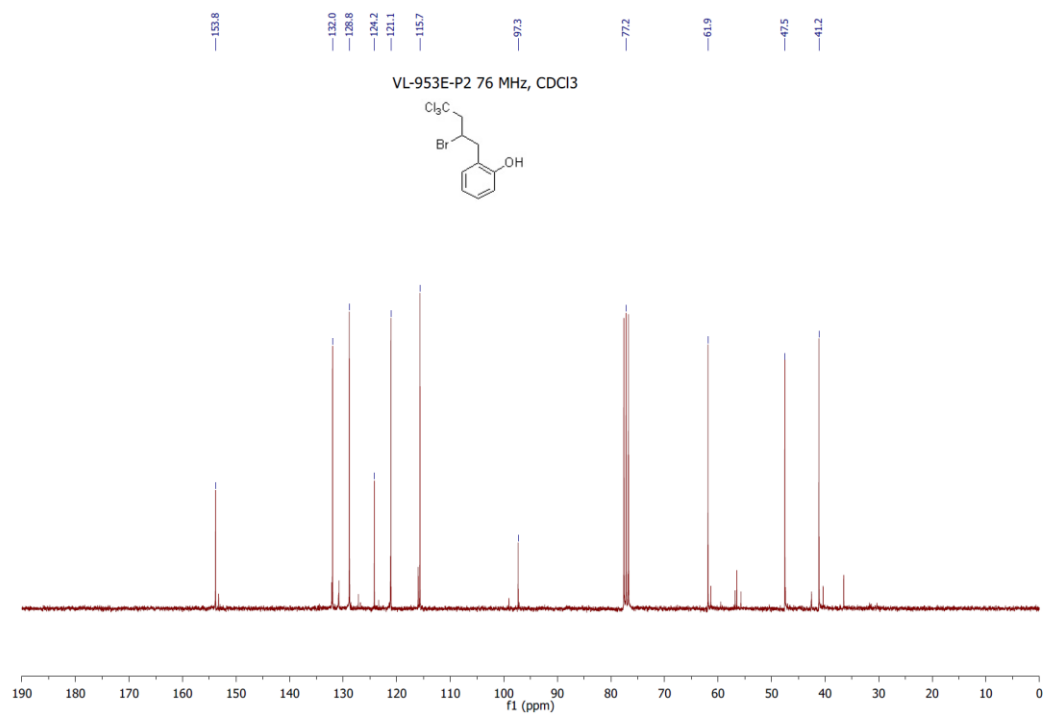




Chemical Formula:  $\text{C}_{10}\text{H}_{10}\text{BrCl}_3\text{O}$

Molecular Weight: 332,44







File :D:\DataMS\2017\08-2017\25082017\VL953EP2.D  
 Operator : VL  
 Acquired : 25 Aug 2017 15:49 using AcqMethod NORMAL.M  
 Instrument : 7890 5975  
 Sample Name : VL953EP2  
 Misc Info :  
 Vial Number : 16

# Area Percent Report

Data Path : D:\DataMS\2017\08-2017\25082017\  
 Data File : VL953EP2.D  
 Acq On : 25 Aug 2017 15:49  
 Operator : VL  
 Sample : VL953EP2  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: autoint1.e  
 Integrator: ChemStation

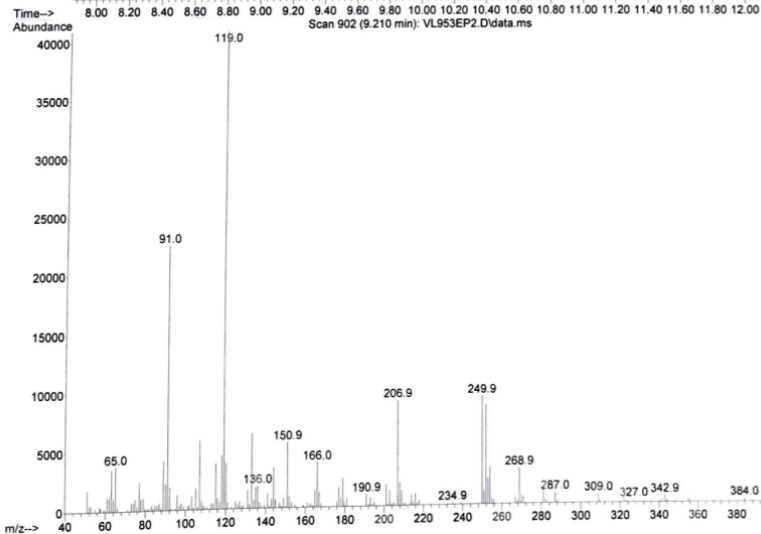
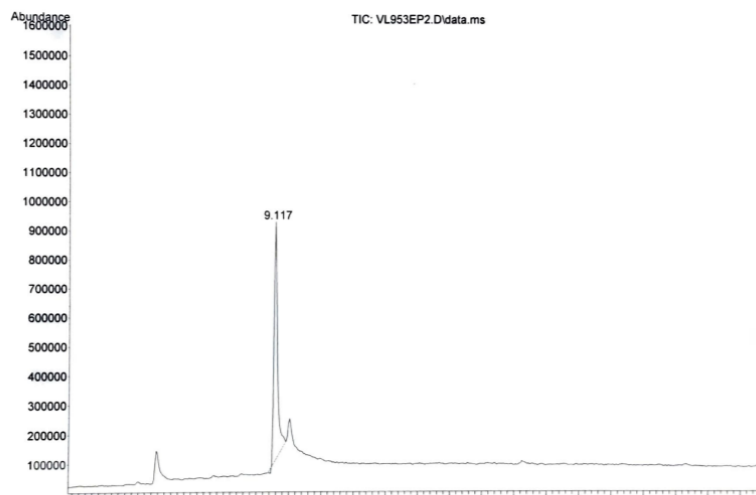
Method : C:\msdchem\1\methods\DBWAXconfig\hexadecenal.M  
 Title :

Signal : TIC: VL953EP2.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.391	777	781	794	M	112674	2140071	17.53%	13.776%
2	9.114	884	888	898	M	832556	12207185	100.00%	78.578%
3	9.203	898	901	911	M2	80908	1187935	9.73%	7.647%

Sum of corrected areas: 15535191

hexadecenal.M Mon Oct 12 17:22:37 2020

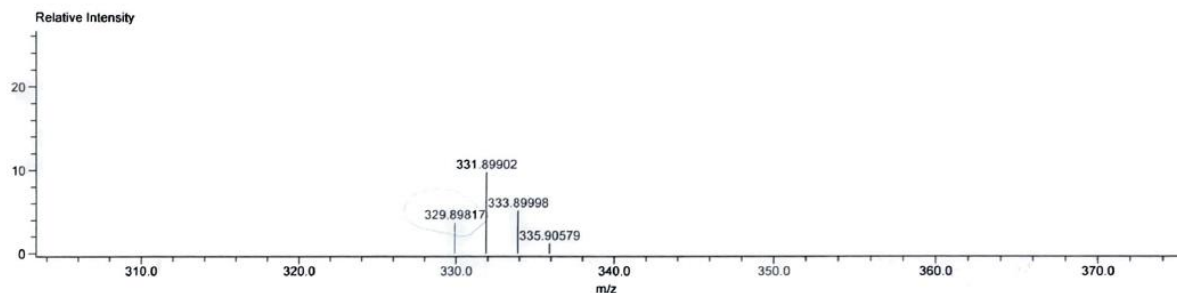


Data: EI-280220-VL953EP  
 Sample Name:  
 Description:  
 Ionization Mode: EI+  
 History: Determine m/z [Peak Detect [Centroid, 30, Area], Smooth [7]], Correct Base [], Average [MS [1] 12.37..12.47]

Charge number: 1  
 Element:  $^{12}\text{C}$ : 0.. 50,  $^1\text{H}$ : 0.. 100,  $^{79}\text{Br}$ : 1.. 1,  $^{35}\text{Cl}$ : 3.. 3,  $^{16}\text{O}$ : 0.. 1

Acquired: 2/28/2020 3:28:40 PM  
 Operator: AccuTof  
 Mass Calibration data: CAL-291118-CAL-EI-class4  
 Created: 2/28/2020 4:21:19 PM  
 Created by: AccuTof

Unsaturation Number: -1.5.. 20.0 (Fraction: Both)



Mass	Intensity	Calc. Mass	Mass Difference (ppm)	Possible Formula	Unsaturation Number
329.89817	816.08	329.89806	0.32	$^{12}\text{C}_{10}^1\text{H}_{10}^{79}\text{Br}_1^{35}\text{Cl}_3^{16}\text{O}_1$	4.0