

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120420\
 Data File : VD067882.D
 Acq On : 04 Dec 2020 13:42
 Operator : VA/SY
 Sample : L4950-01RE
 Misc : 6.47G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PL-02-120420RE

Quant Time: Dec 04 23:49:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120120S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 02 08:05:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	8534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	10824	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	10328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	5307	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	5476	59.77	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	119.54%		
35) Dibromofluoromethane	7.91	113	2889	39.89	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	79.78%		
50) Toluene-d8	10.34	98	11444	43.89	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	87.78%		
62) 4-Bromofluorobenzene	12.63	95	3847	42.68	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	85.36%		

Target Compounds

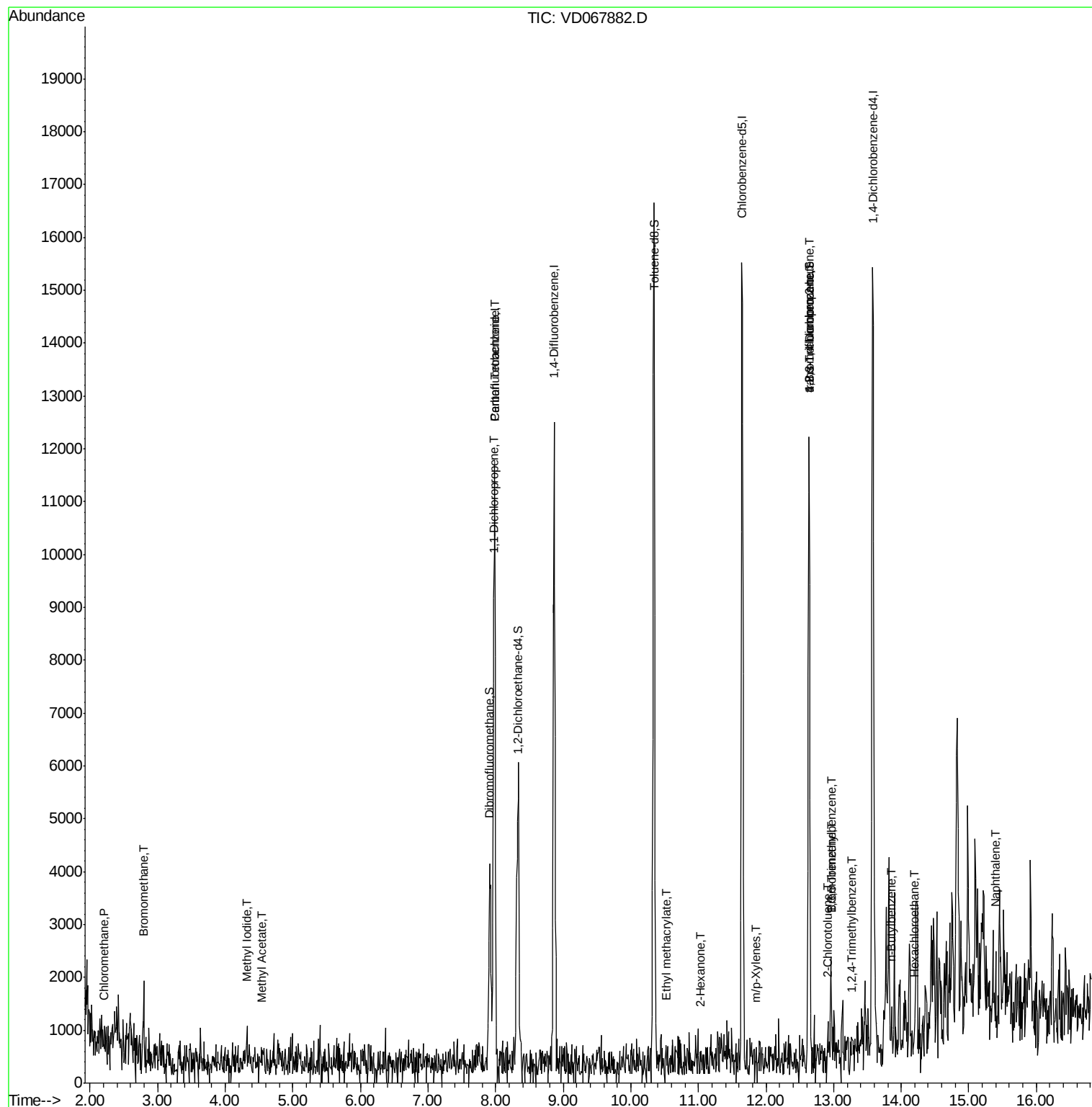
						Qvalue
3) Chloromethane	2.20	50	123	2.870	ug/l #	40
5) Bromomethane	2.80	94	629	13.053	ug/l	97
10) Methyl Iodide	4.32	142	584	7.315	ug/l #	33
18) Methyl Acetate	4.54	43	71	2.652	ug/l #	41
20) Methylene Chloride	4.97	84	59	Below Cal	#	62
36) 1,1-Dichloropropene	7.97	75	635	6.777	ug/l #	39
38) Carbon Tetrachloride	7.98	117	695	4.902	ug/l #	10
56) Ethyl methacrylate	10.53	69	54	1.060	ug/l #	30
59) 2-Hexanone	11.03	43	53	3.197	ug/l #	21
68) m/p-Xylenes	11.86	106	162	1.132	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	1914	49.525	ug/l #	1
77) Bromobenzene	12.96	156	150	1.653	ug/l #	56
79) 2-Chlorotoluene	12.91	91	245	1.030	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.97	105	1009	3.193	ug/l	80
81) trans-1,4-Dichloro-2-buten	12.64	75	1914	118.468	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.27	105	409	1.302	ug/l #	55
89) n-Butylbenzene	13.86	91	385	1.318	ug/l #	43
90) Hexachloroethane	14.19	117	209	3.218	ug/l #	6
95) Naphthalene	15.40	128	194	1.123	ug/l #	26

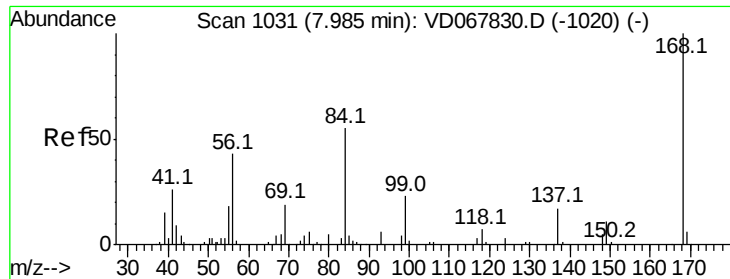
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067882.D

Acq: 04 Dec 2020 13:42

Instrument :

MSVOA_D

ClientSampleId :

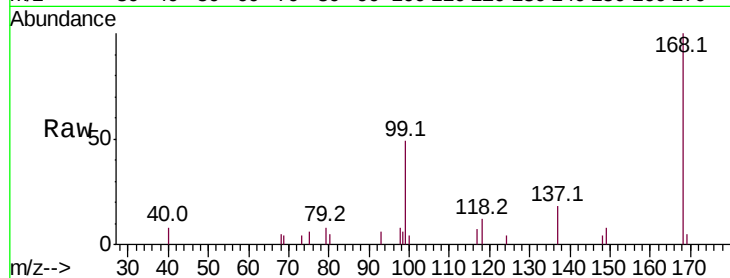
PL-02-120420RE

Tot Ion:168 Resp: 8534

Ion Ratio Lower Upper

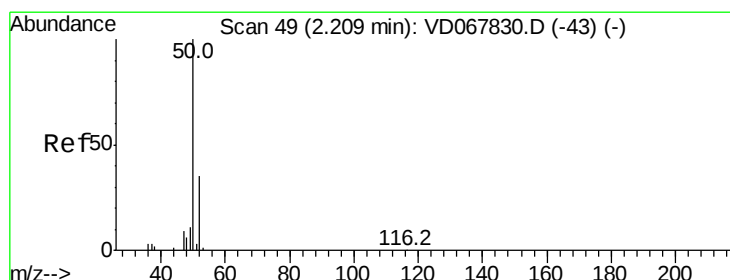
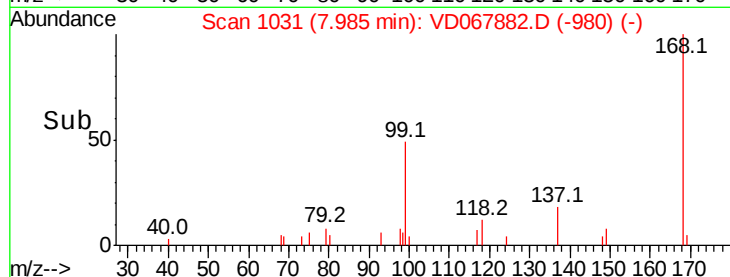
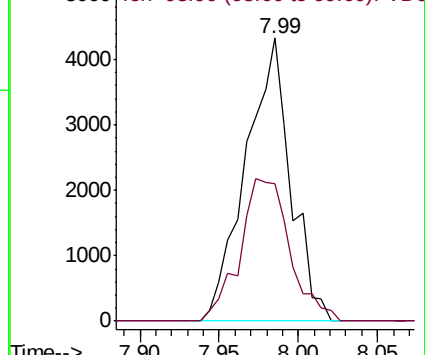
168 100

99 48.6 47.1 70.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 2.870 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD067882.D

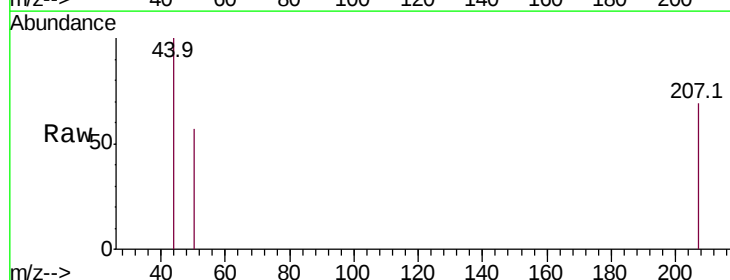
Acq: 04 Dec 2020 13:42

Tgt Ion: 50 Resp: 123

Ion Ratio Lower Upper

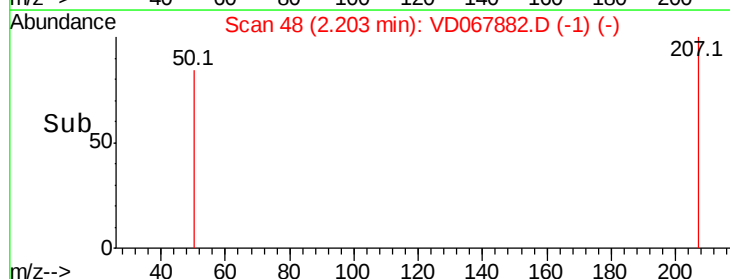
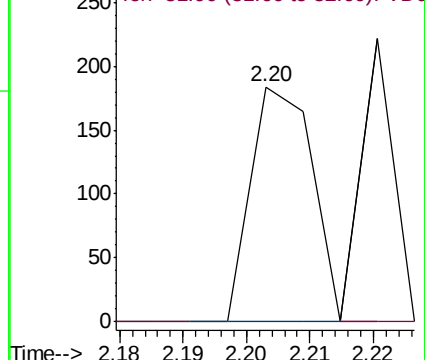
50 100

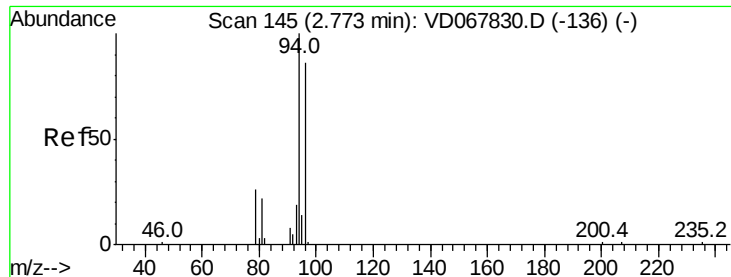
52 0.0 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 13.053 ug/l

RT: 2.80 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD067882.D

Acq: 04 Dec 2020 13:42

Instrument :

MSVOA_D

ClientSampleId :

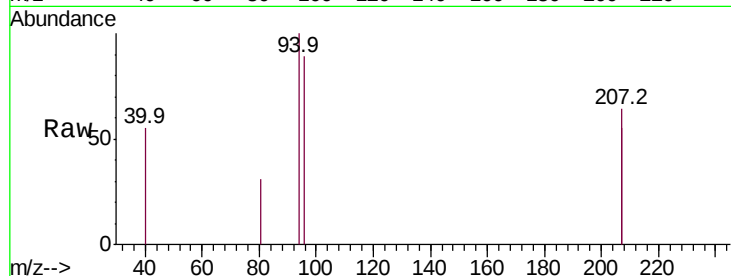
PL-02-120420RE

Tot Ion: 94 Resp: 629

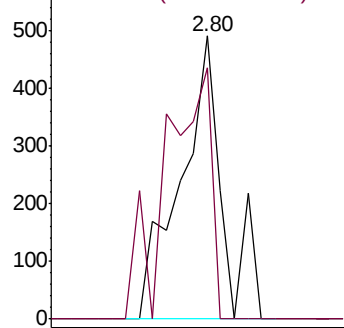
Ion Ratio Lower Upper

94 100

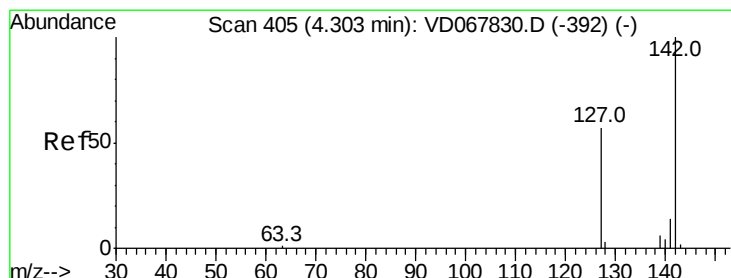
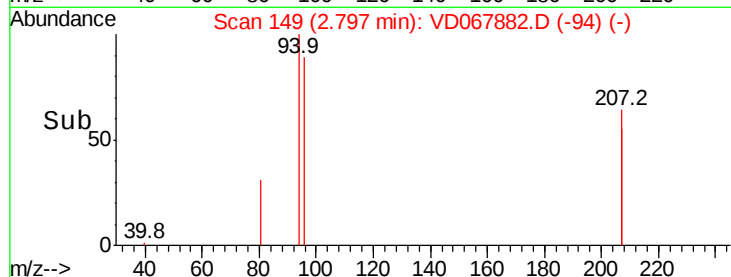
96 88.8 68.7 103.1



Abundance Ion 93.90 (93.60 to 94.60): VDC



Time-->



#10

Methyl Iodide

Concen: 7.315 ug/l

RT: 4.32 min Scan# 408

Delta R.T. 0.02 min

Lab File: VD067882.D

Acq: 04 Dec 2020 13:42

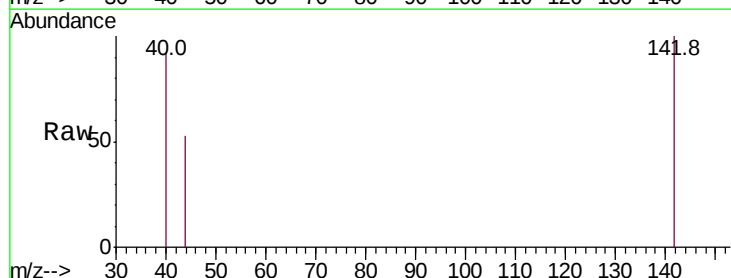
Tgt Ion: 142 Resp: 584

Ion Ratio Lower Upper

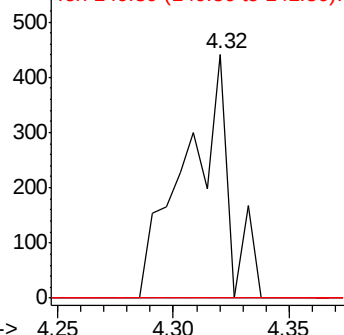
142 100

127 0.0 43.9 65.9#

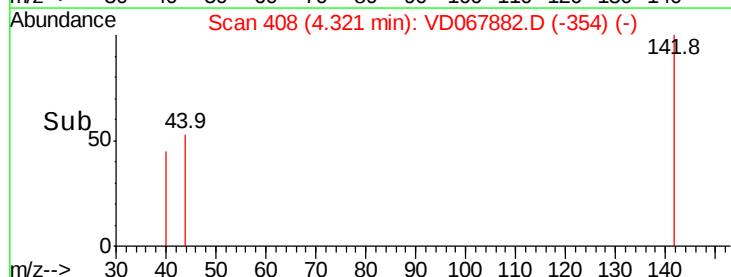
141 0.0 12.2 18.2#

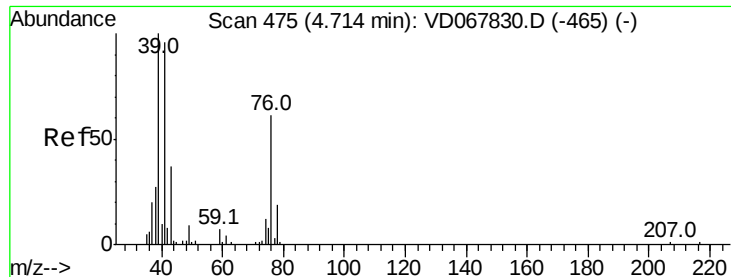


Abundance Ion 141.80 (141.50 to 142.50): V



Time-->

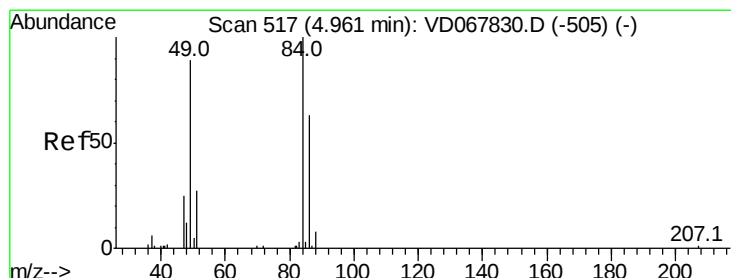
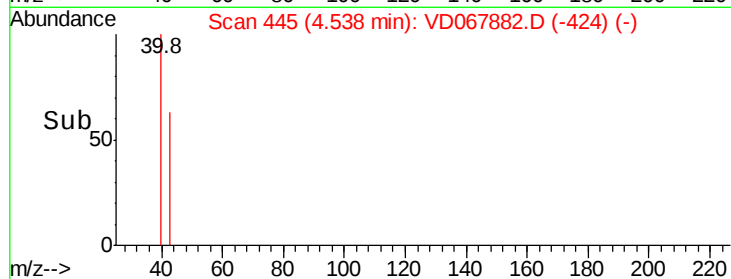
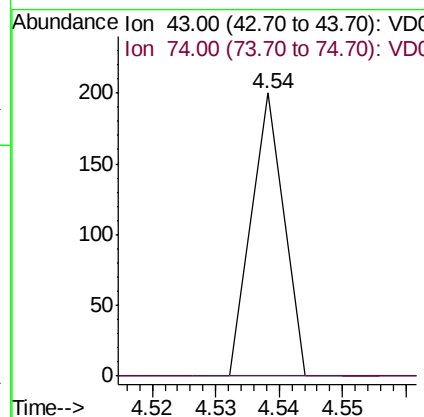
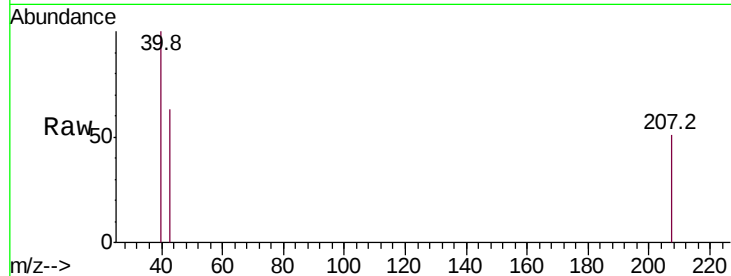




#18
Methvl Acetate
Concen: 2.652 ug/l
RT: 4.54 min Scan# 445
Delta R.T. -0.18 min
Lab File: VD067882.D
Acq: 04 Dec 2020 13:42

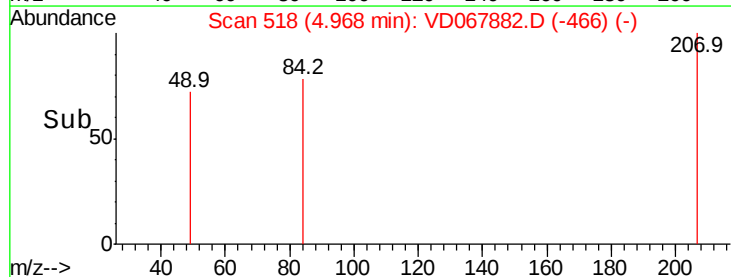
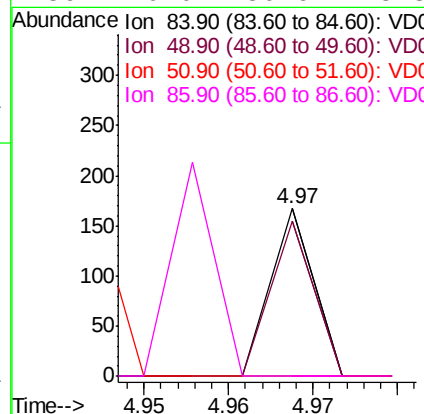
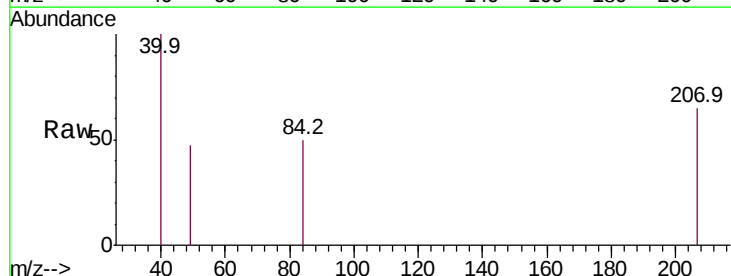
Instrument :
MSVOA_D
ClientSampleId :
PL-02-120420RE

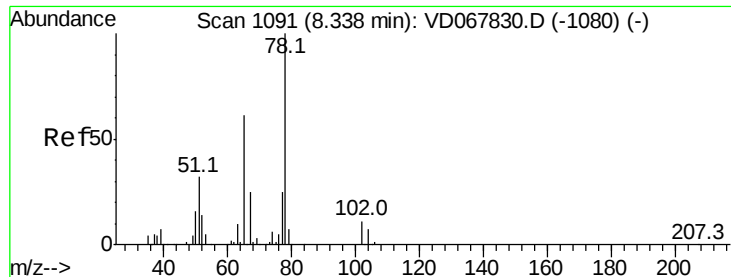
Tot Ion: 43 Resp: 71
Ion Ratio Lower Upper
43 100
74 0.0 27.0 40.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD067882.D
Acq: 04 Dec 2020 13:42

Tgt Ion: 84 Resp: 59
Ion Ratio Lower Upper
84 100
49 92.8 71.4 107.0
51 0.0 21.8 32.8#
86 0.0 50.6 75.8#





#33

1,2-Dichloroethane-d4

Concen: 59.771 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD067882.D

Acq: 04 Dec 2020 13:42

Instrument :

MSVOA_D

ClientSampleId :

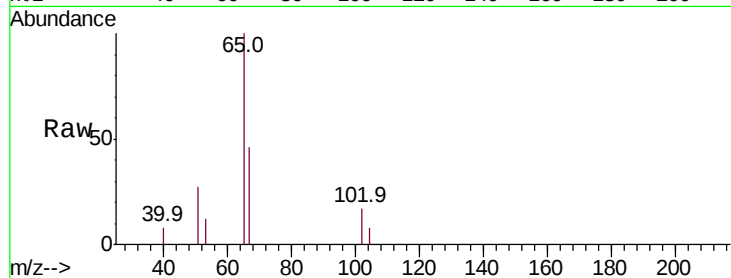
PL-02-120420RE

Tot Ion: 65 Resp: 5476

Ion Ratio Lower Upper

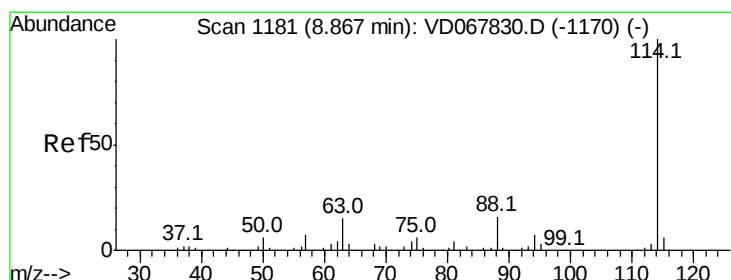
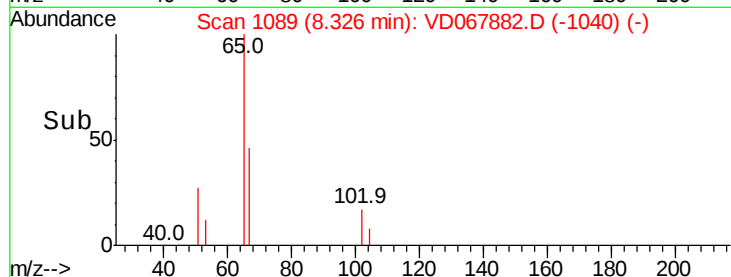
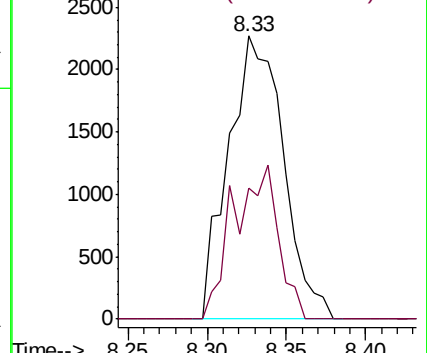
65 100

67 44.1 0.0 92.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067882.D

Acq: 04 Dec 2020 13:42

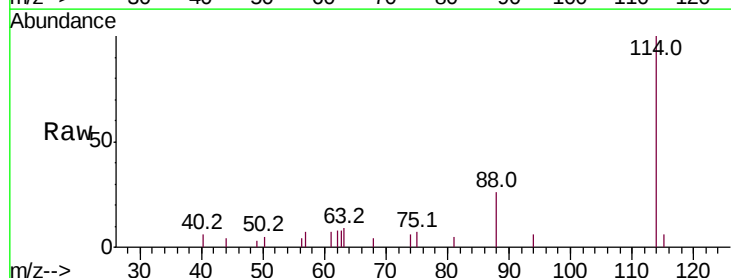
Tgt Ion: 114 Resp: 10824

Ion Ratio Lower Upper

114 100

63 16.5 0.0 30.8

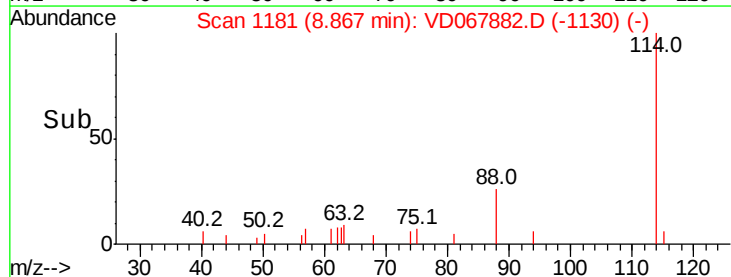
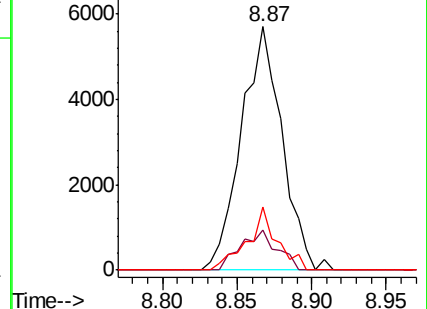
88 25.8 0.0 31.8

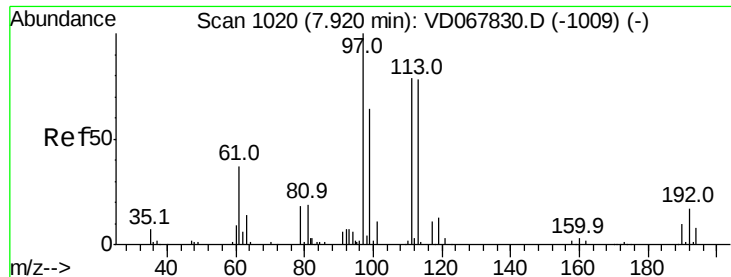


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

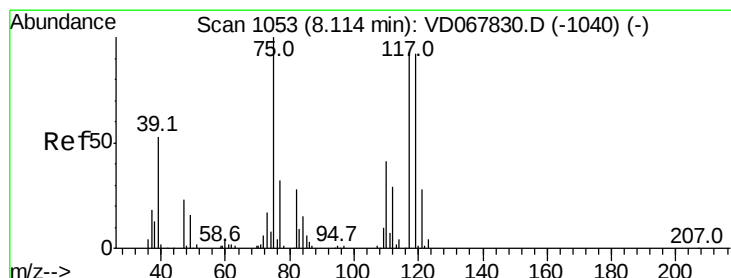
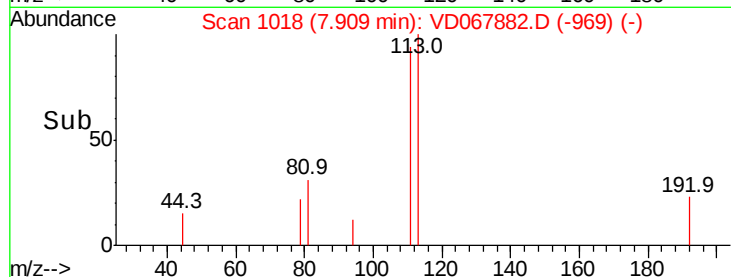
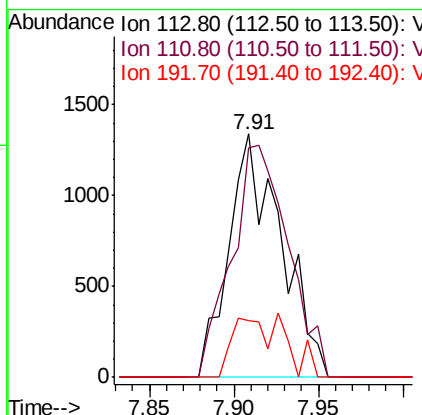
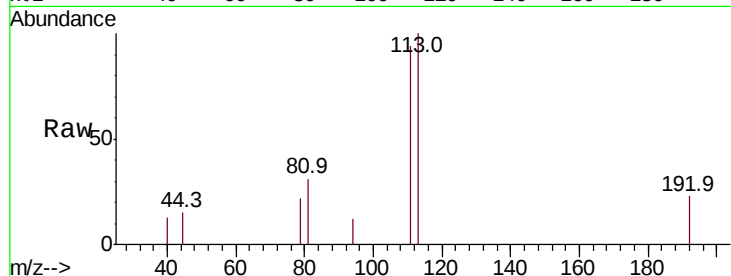




#35
 Dibromofluoromethane
 Concen: 39.888 ug/l
 RT: 7.91 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: VD067882.D
 Acq: 04 Dec 2020 13:42

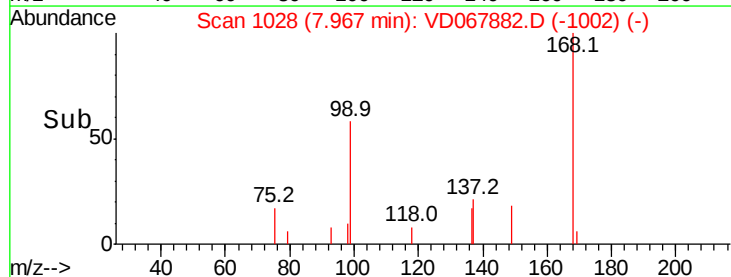
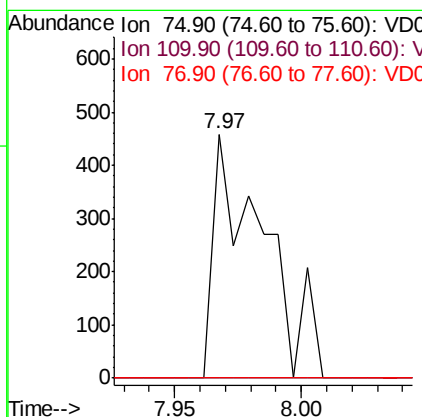
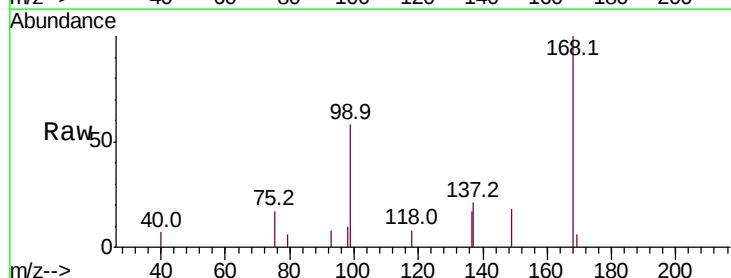
Instrument :
 MSVOA_D
 ClientSampleId :
 PL-02-120420RE

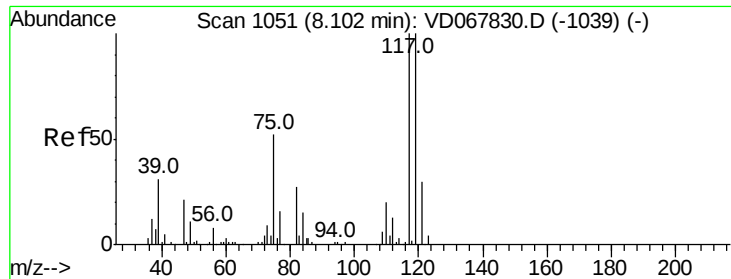
Tot Ion:113 Resp: 2889
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.2 121.8
 192 24.8 16.8 25.2



#36
 1,1-Dichloropropene
 Concen: 6.777 ug/l
 RT: 7.97 min Scan# 1028
 Delta R.T. -0.15 min
 Lab File: VD067882.D
 Acq: 04 Dec 2020 13:42

Tgt Ion: 75 Resp: 635
 Ion Ratio Lower Upper
 75 100
 110 0.0 20.3 61.0#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 4.902 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067882.D

Acq: 04 Dec 2020 13:42

Instrument :

MSVOA_D

ClientSampleId :

PL-02-120420RE

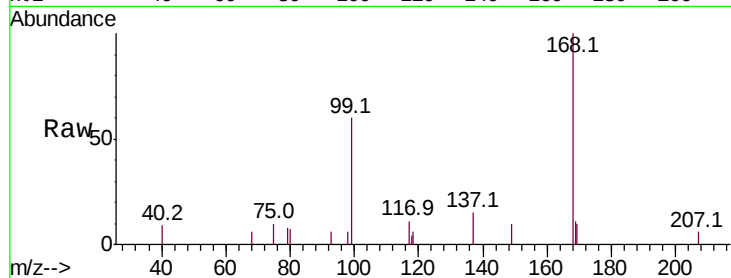
Tot Ion:117 Resp: 695

Ion Ratio Lower Upper

117 100

119 0.0 79.7 119.5#

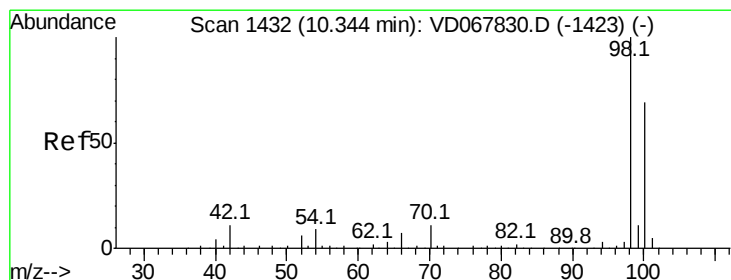
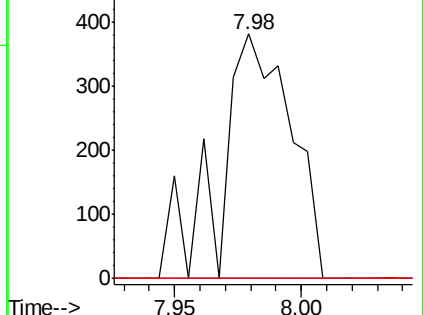
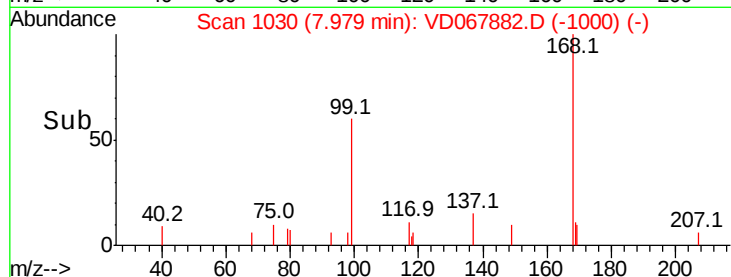
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 43.892 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD067882.D

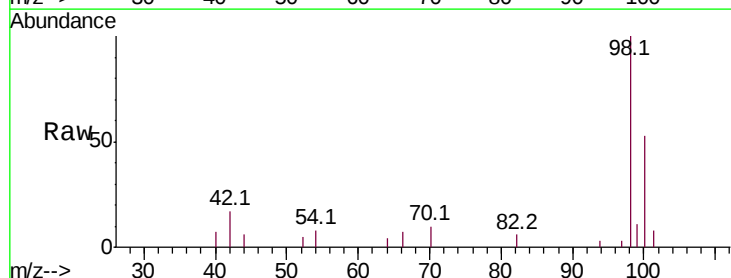
Acq: 04 Dec 2020 13:42

Tgt Ion: 98 Resp: 11444

Ion Ratio Lower Upper

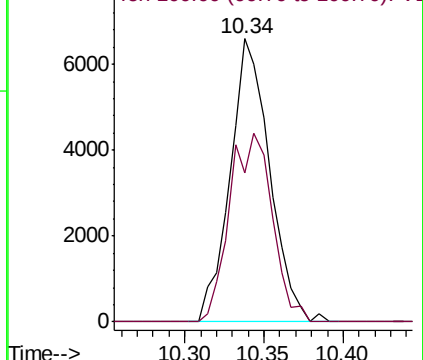
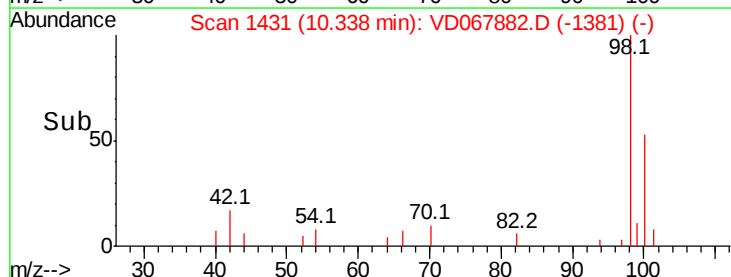
98 100

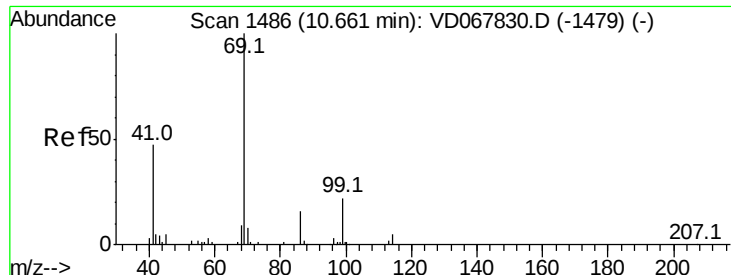
100 71.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

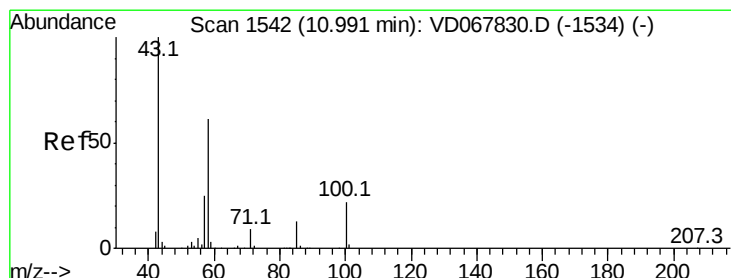
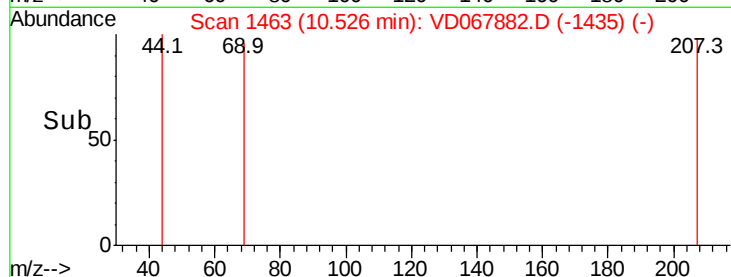
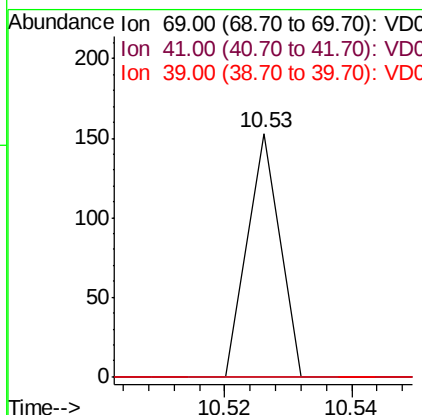
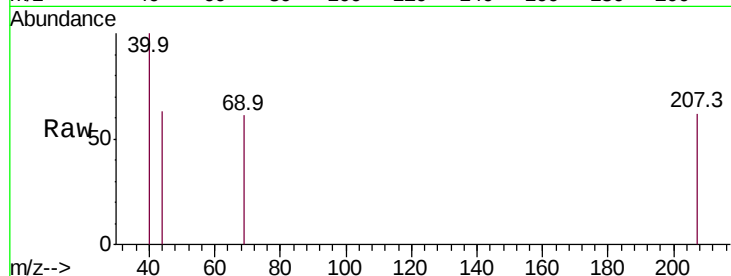




#56
Ethyl methacrylate
Concen: 1.060 ug/l
RT: 10.53 min Scan# 1463
Delta R.T. -0.14 min
Lab File: VD067882.D
Acq: 04 Dec 2020 13:42

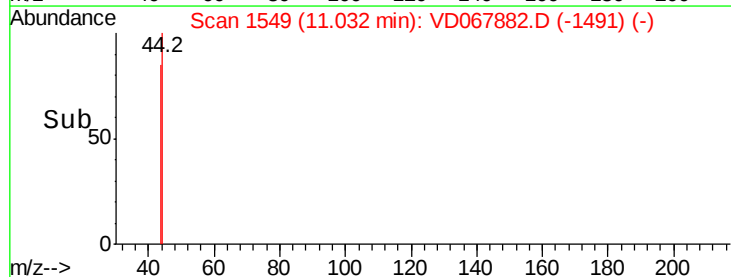
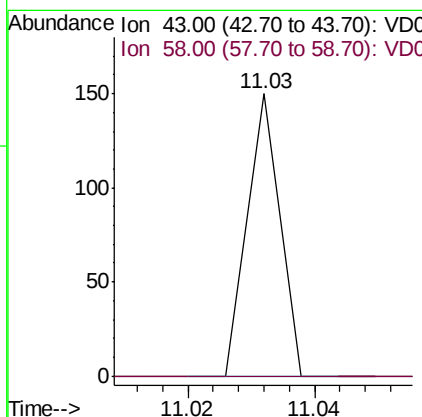
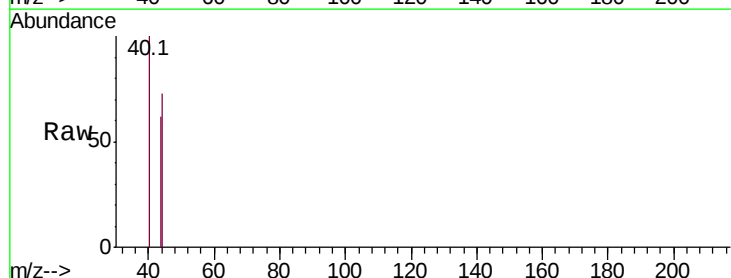
Instrument :
MSVOA_D
ClientSampleId :
PL-02-120420RE

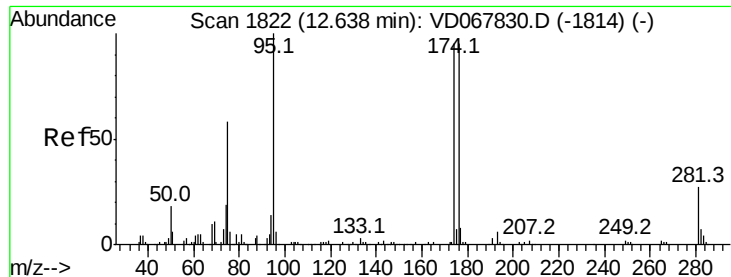
Tot Ion: 69 Resp: 54
Ion Ratio Lower Upper
69 100
41 0.0 42.8 64.2#
39 0.0 30.5 45.7#



#59
2-Hexanone
Concen: 3.197 ug/l
RT: 11.03 min Scan# 1549
Delta R.T. 0.04 min
Lab File: VD067882.D
Acq: 04 Dec 2020 13:42

Tgt Ion: 43 Resp: 53
Ion Ratio Lower Upper
43 100
58 0.0 29.9 89.7#





#62

4-Bromofluorobenzene

Concen: 42.678 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD067882.D

Acq: 04 Dec 2020 13:42

Instrument :

MSVOA_D

ClientSampleId :

PL-02-120420RE

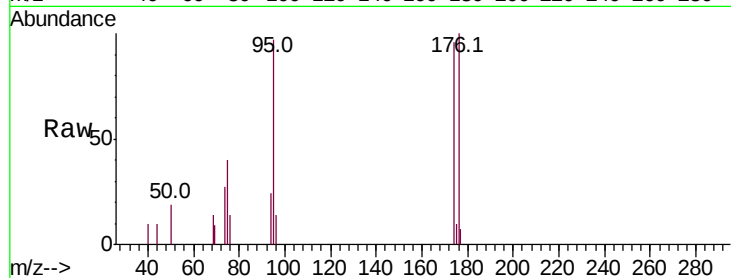
Tot Ion: 95 Resp: 3847

Ion Ratio Lower Upper

95 100

174 110.5 0.0 186.0

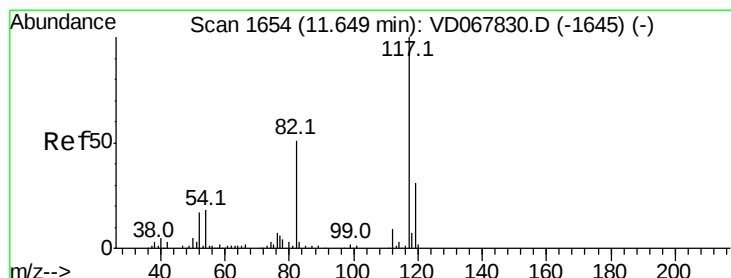
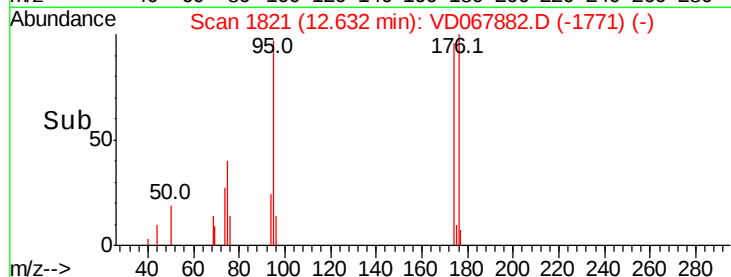
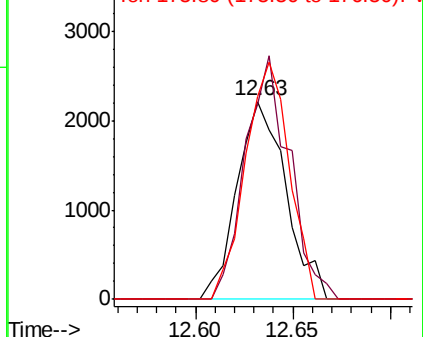
176 107.5 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD067882.D

Acq: 04 Dec 2020 13:42

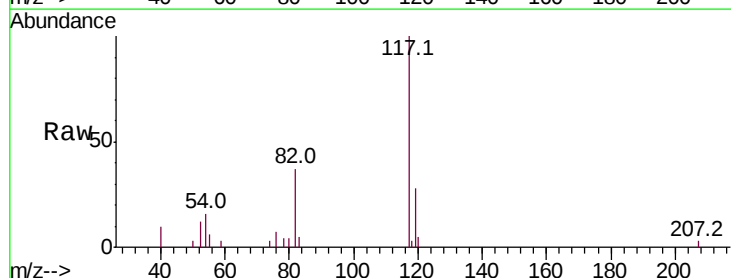
Tgt Ion: 117 Resp: 10328

Ion Ratio Lower Upper

117 100

82 37.1 40.6 60.8#

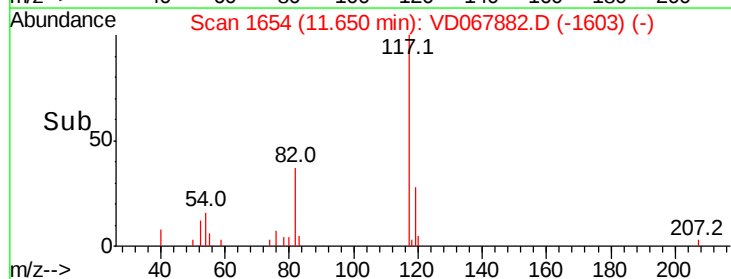
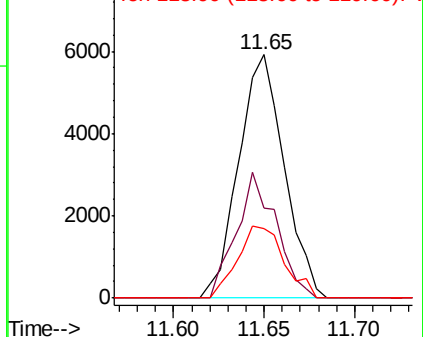
119 28.5 25.1 37.7

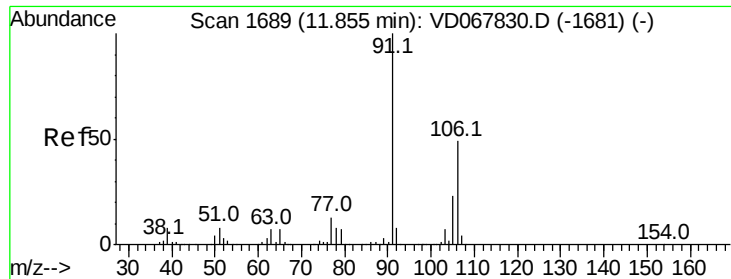


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

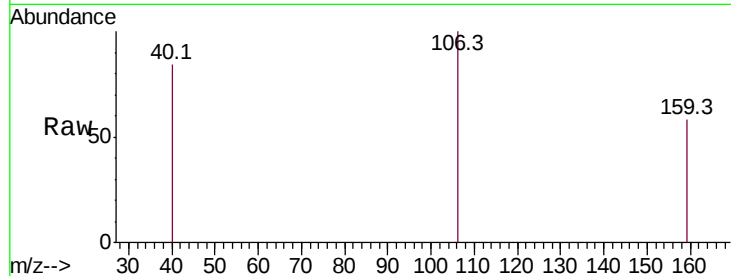




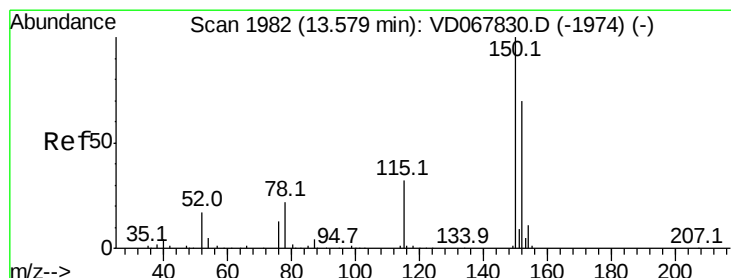
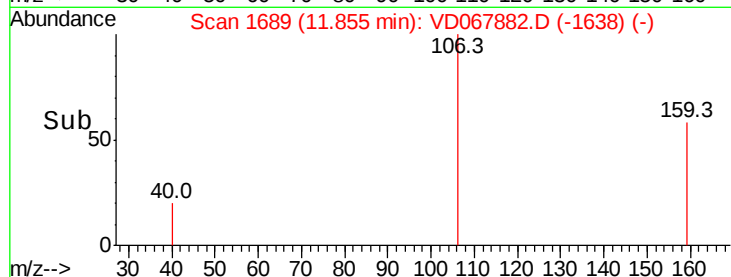
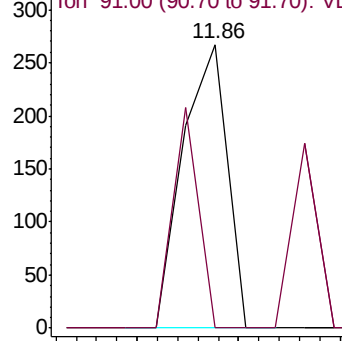
#68
m/p-Xvlenes
Concen: 1.132 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD067882.D
Acq: 04 Dec 2020 13:42

Instrument :
MSVOA_D
ClientSampleId :
PL-02-120420RE

Tot Ion:106 Resp: 162
Ion Ratio Lower Upper
106 100
91 45.1 162.8 244.2#

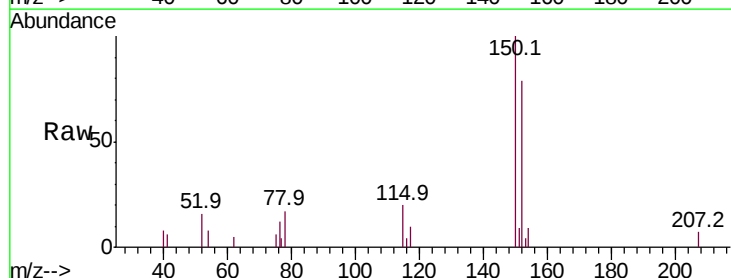


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

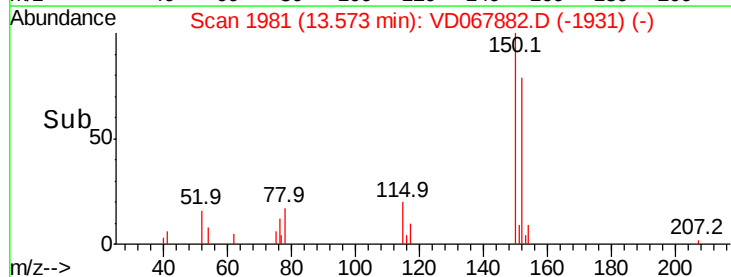
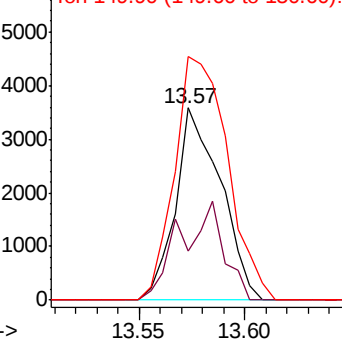


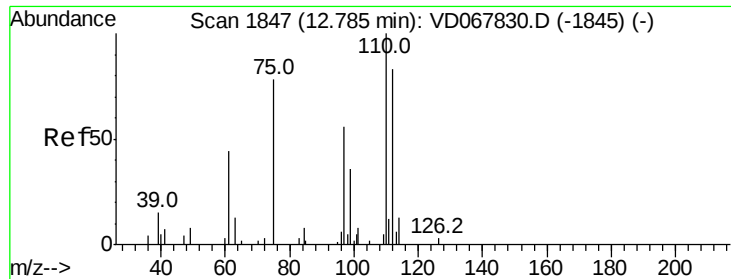
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1981
Delta R.T. -0.01 min
Lab File: VD067882.D
Acq: 04 Dec 2020 13:42

Tgt Ion:152 Resp: 5307
Ion Ratio Lower Upper
152 100
115 49.8 29.1 87.4
150 148.7 0.0 339.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

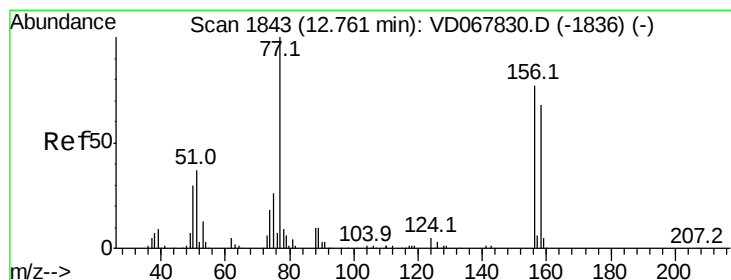
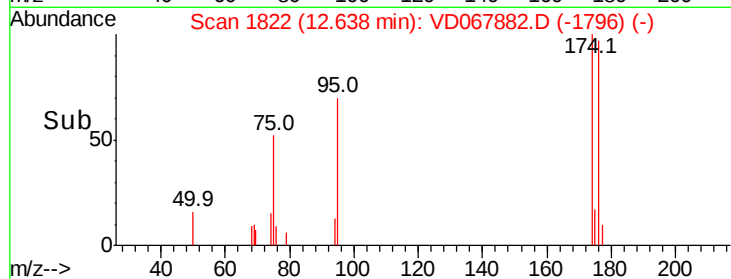
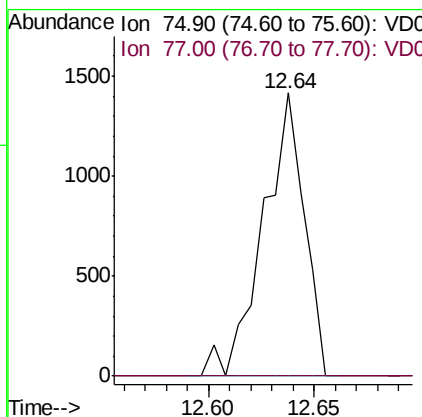
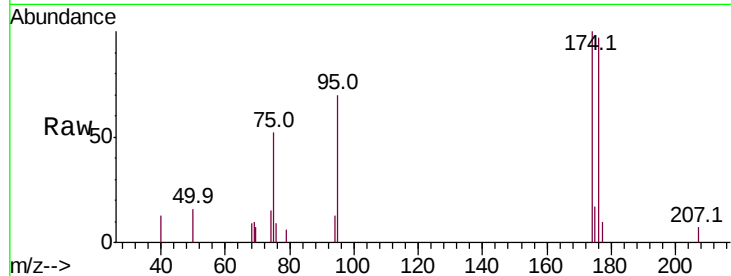




#76
 1,2,3-Trichloropropane
 Concen: 49.525 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD067882.D
 Acq: 04 Dec 2020 13:42

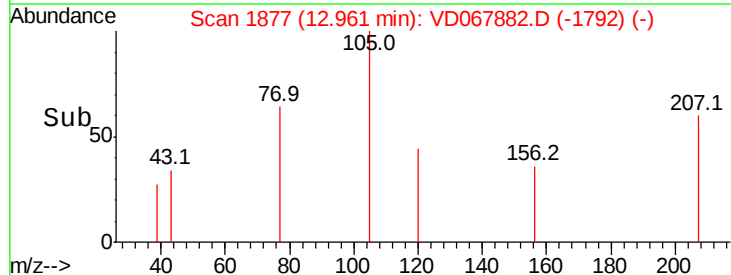
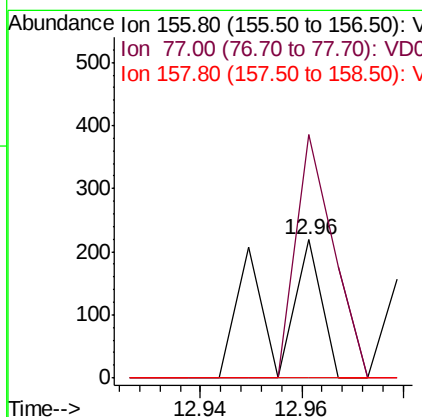
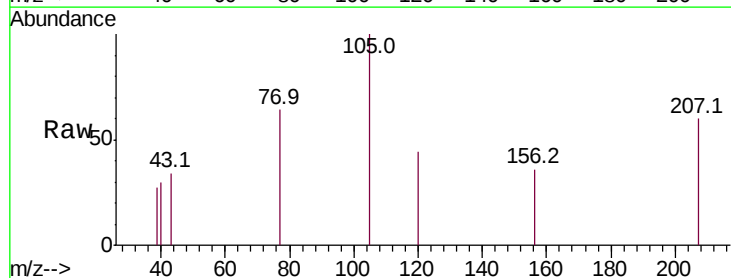
Instrument :
 MSVOA_D
 ClientSampleId :
 PL-02-120420RE

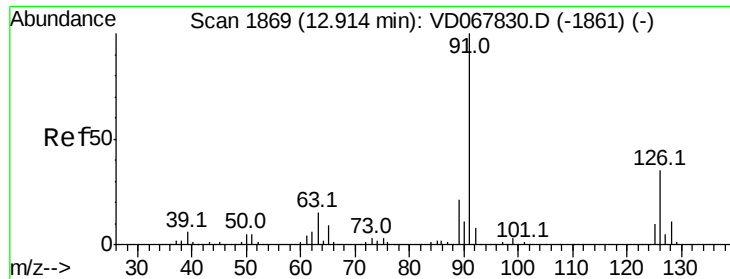
Tot Ion: 75 Resp: 1914
 Ion Ratio Lower Upper
 75 100
 77 0.0 175.9 527.7#



#77
 Bromobenzene
 Concen: 1.653 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. 0.20 min
 Lab File: VD067882.D
 Acq: 04 Dec 2020 13:42

Tgt Ion: 156 Resp: 150
 Ion Ratio Lower Upper
 156 100
 77 132.0 71.5 214.5
 158 0.0 47.1 141.4#

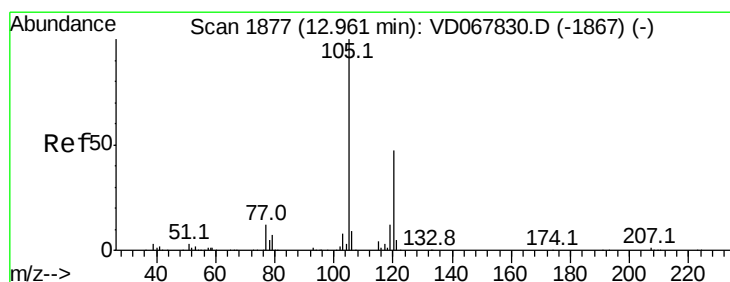
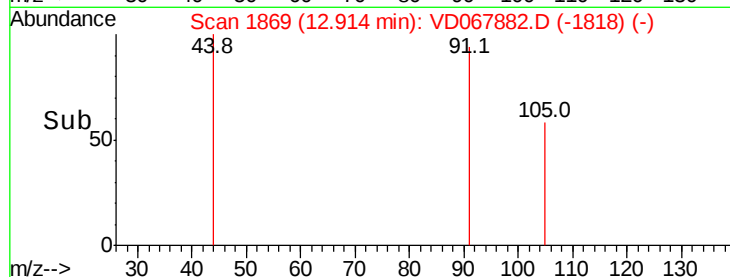
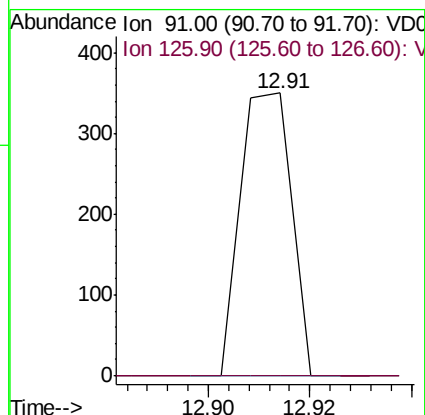
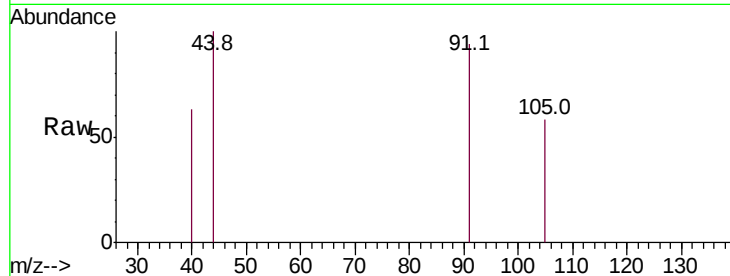




#79
2-Chlorotoluene
Concen: 1.030 ug/l
RT: 12.91 min Scan# 1869
Delta R.T. 0.00 min
Lab File: VD067882.D
Acq: 04 Dec 2020 13:42

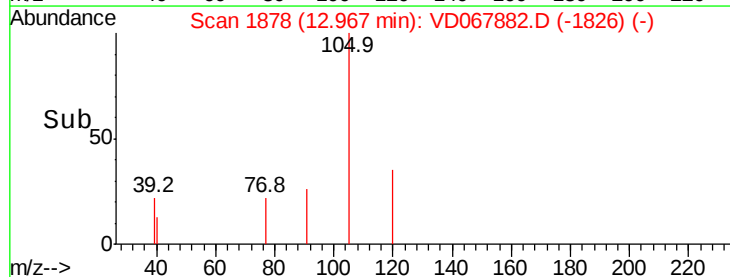
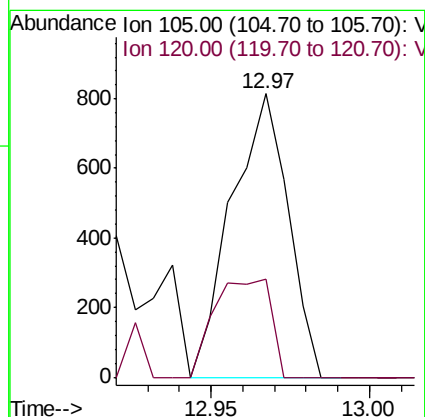
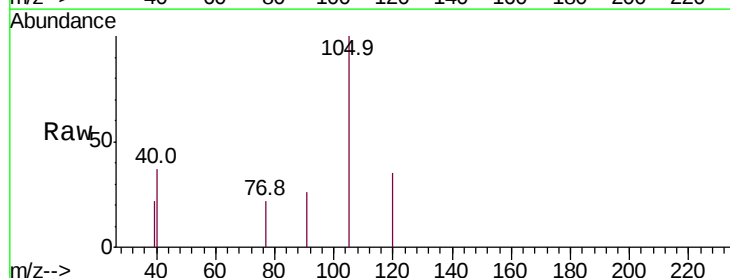
Instrument :
MSVOA_D
ClientSampleId :
PL-02-120420RE

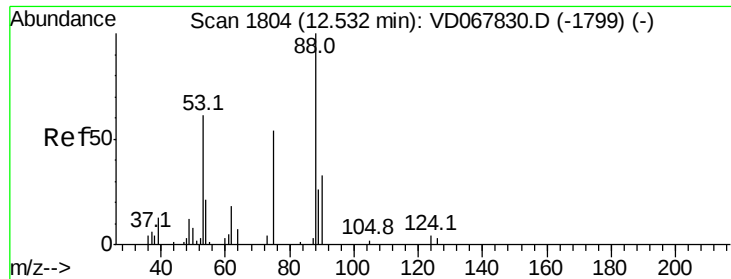
Tot Ion: 91 Resp: 245
Ion Ratio Lower Upper
91 100
126 0.0 17.9 53.7#



#80
1,3,5-Trimethylbenzene
Concen: 3.193 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. 0.01 min
Lab File: VD067882.D
Acq: 04 Dec 2020 13:42

Tgt Ion: 105 Resp: 1009
Ion Ratio Lower Upper
105 100
120 34.7 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 118.468 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067882.D

Acq: 04 Dec 2020 13:42

Instrument :

MSVOA_D

ClientSampleId :

PL-02-120420RE

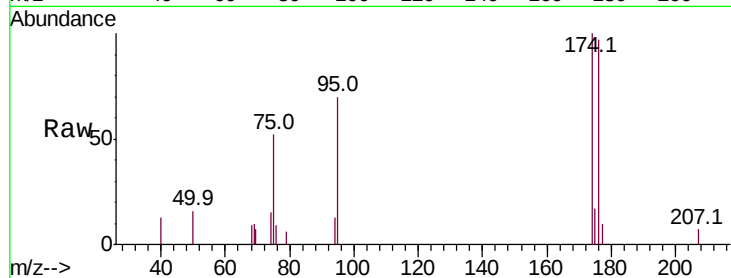
Tot Ion: 75 Resp: 1914

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

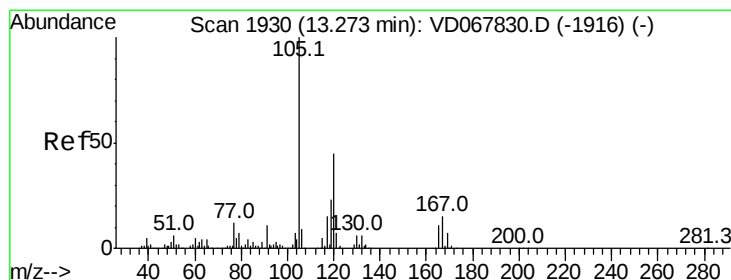
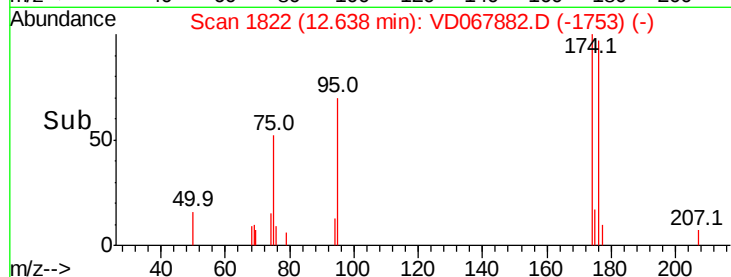
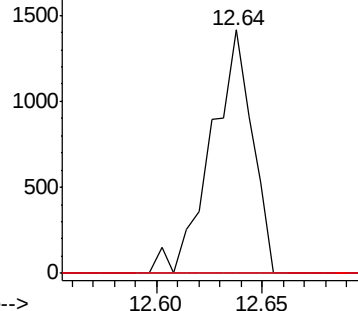
89 0.0 41.0 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#84

1,2,4-Trimethylbenzene

Concen: 1.302 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD067882.D

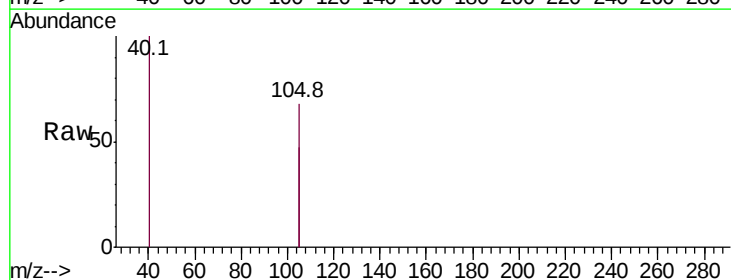
Acq: 04 Dec 2020 13:42

Tgt Ion: 105 Resp: 409

Ion Ratio Lower Upper

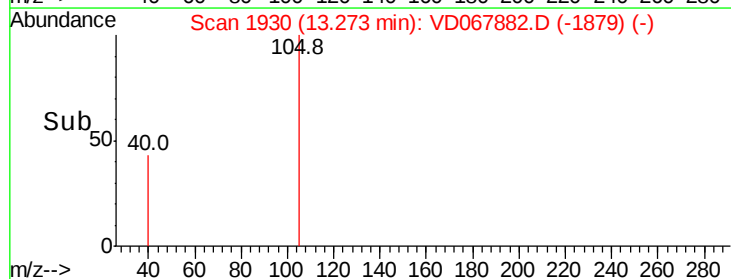
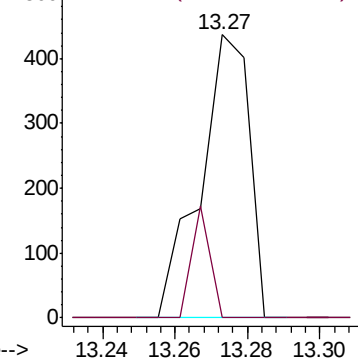
105 100

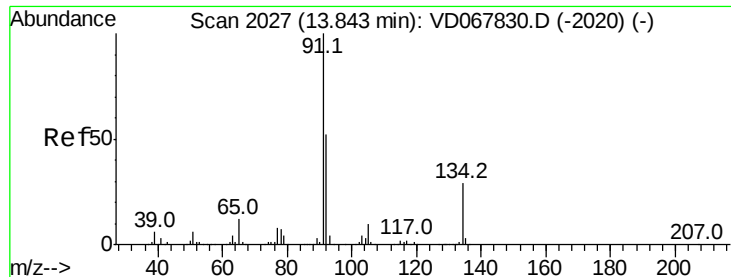
120 14.9 22.1 66.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#89

n-Butylbenzene

Concen: 1.318 ug/l

RT: 13.86 min Scan# 2029

Delta R.T. 0.01 min

Lab File: VD067882.D

Acq: 04 Dec 2020 13:42

Instrument :

MSVOA_D

ClientSampleId :

PL-02-120420RE

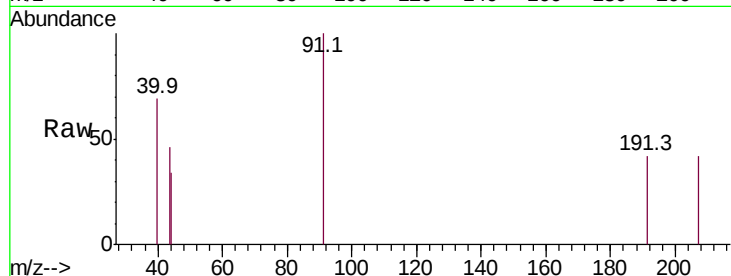
Tot Ion: 91 Resp: 385

Ion Ratio Lower Upper

91 100

92 0.0 26.3 78.8#

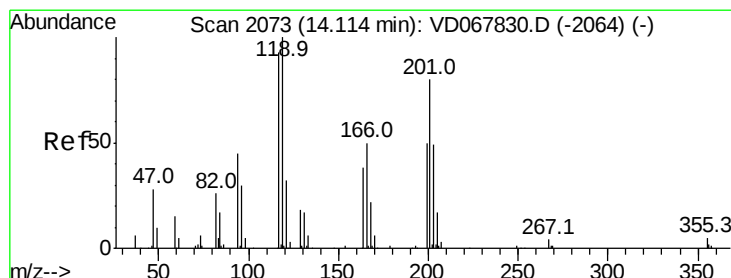
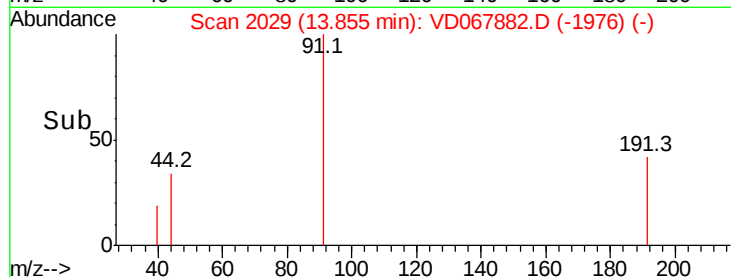
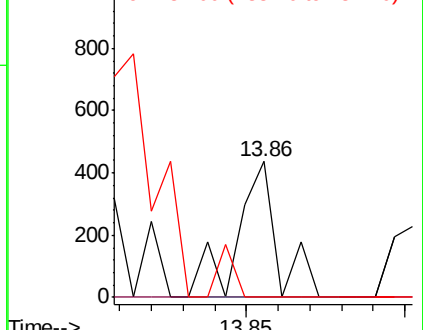
134 15.8 14.8 44.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 3.218 ug/l

RT: 14.19 min Scan# 2086

Delta R.T. 0.08 min

Lab File: VD067882.D

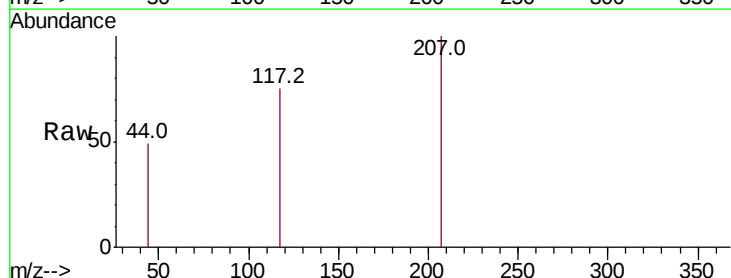
Acq: 04 Dec 2020 13:42

Tgt Ion: 117 Resp: 209

Ion Ratio Lower Upper

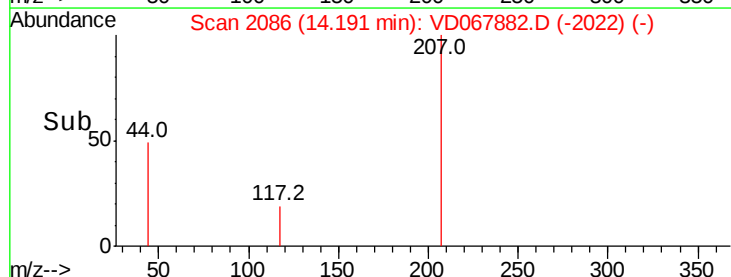
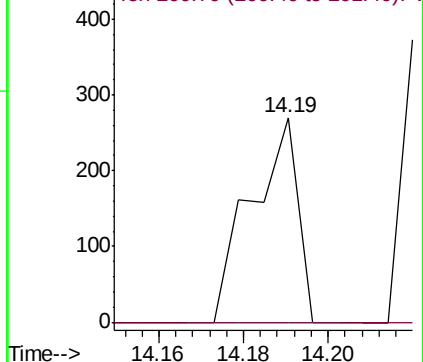
117 100

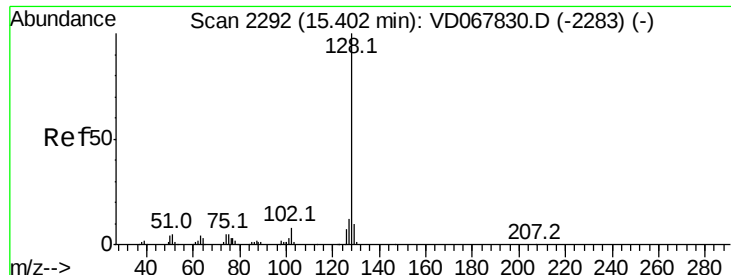
201 0.0 43.9 131.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95

Naphthalene

Concen: 1.123 ug/l

RT: 15.40 min Scan# 2291

Delta R.T. -0.01 min

Lab File: VD067882.D

Acq: 04 Dec 2020 13:42

Instrument :

MSVOA_D

ClientSampleId :

PL-02-120420RE

Tot Ion:128 Resp: 194

Ion Ratio Lower Upper

128 100

127 57.7 10.6 15.8#

129 0.0 9.0 13.6#

