

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111120\
 Data File : VD067597.D
 Acq On : 11 Nov 2020 12:51
 Operator : VA/SY
 Sample : L4702-02
 Misc : 5.42G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 M-5(10-20)

Quant Time: Nov 12 00:08:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110320S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 00:56:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	287700	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	463891	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	514209	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	268367	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	146290	58.15	ug/l	0.00
Spiked Amount			Recovery	=	116.30%	
35) Dibromofluoromethane	7.91	113	149447	53.47	ug/l	0.00
Spiked Amount			Recovery	=	106.94%	
50) Toluene-d8	10.34	98	558435	56.86	ug/l	0.00
Spiked Amount			Recovery	=	113.72%	
62) 4-Bromofluorobenzene	12.64	95	242741	71.58	ug/l	0.00
Spiked Amount			Recovery	=	143.16%	

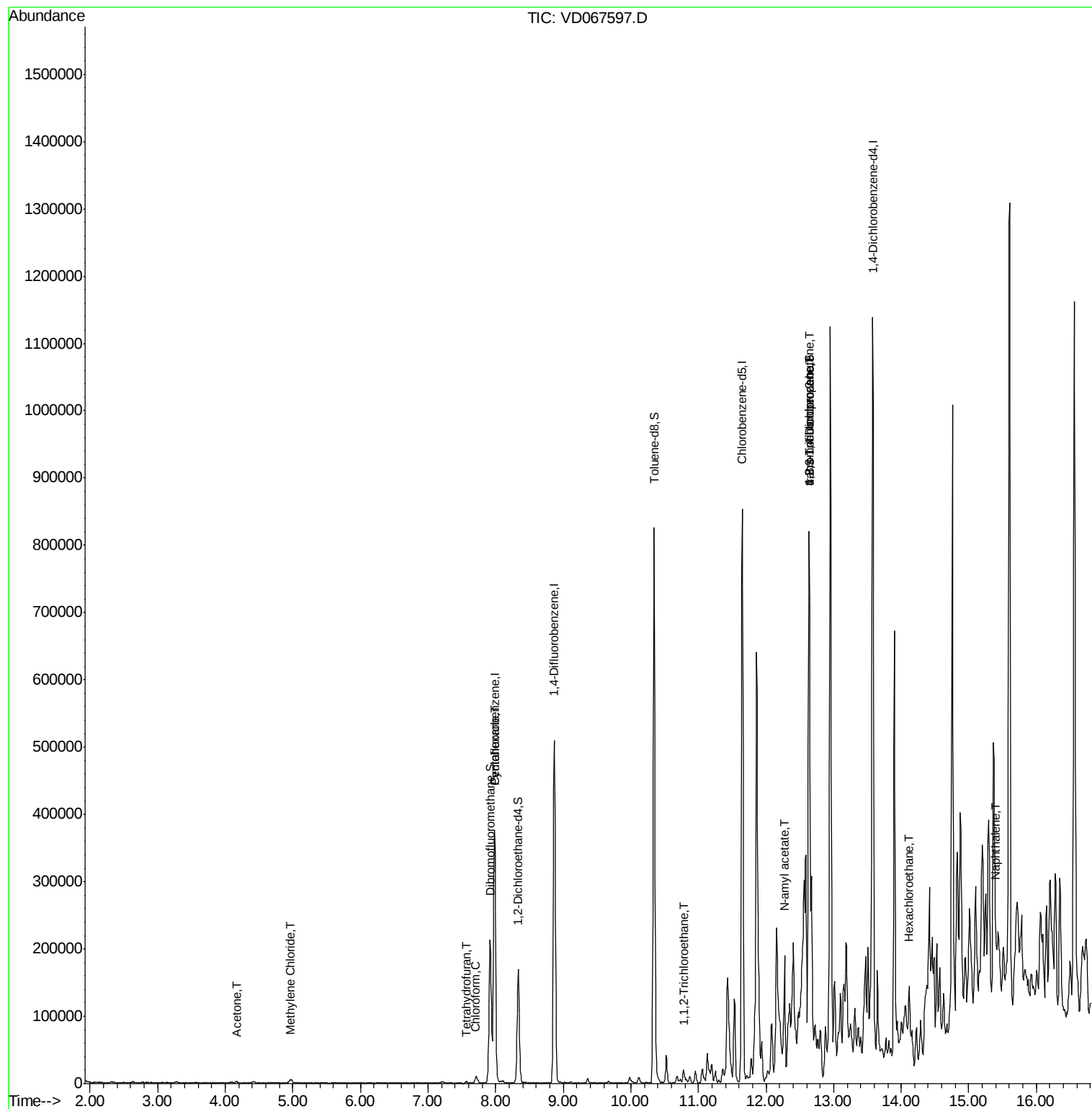
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.98	85	928	Below Cal		87
11) Tert butyl alcohol	5.24	59	67	Below Cal	#	79
16) Acetone	4.17	43	3607	9.582	ug/l	97
20) Methylene Chloride	4.97	84	4815	1.811	ug/l #	90
29) Tetrahydrofuran	7.57	42	1074	4.457	ug/l	94
30) Chloroform	7.71	83	7884	1.613	ug/l	92
31) Cyclohexane	7.99	56	6108	1.674	ug/l #	22
55) 1,1,2-Trichloroethane	10.78	97	7657	3.914	ug/l #	24
74) N-amyl acetate	12.27	43	28928	12.675	ug/l #	66
76) 1,2,3-Trichloropropane	12.64	75	128559	79.409	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	128559	161.222	ug/l #	10
90) Hexachloroethane	14.12	117	4661	1.512	ug/l #	13
95) Naphthalene	15.40	128	69551	9.440	ug/l #	88

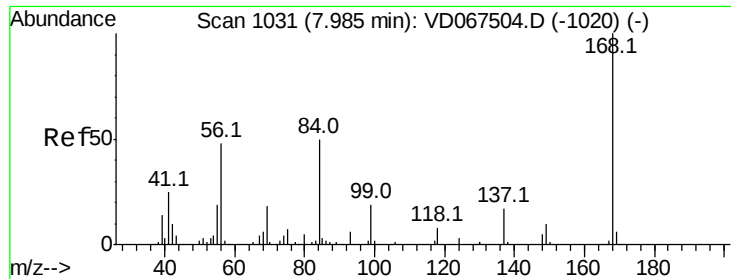
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067597.D

Acq: 11 Nov 2020 12:51

Instrument :

MSVOA_D

ClientSampleId :

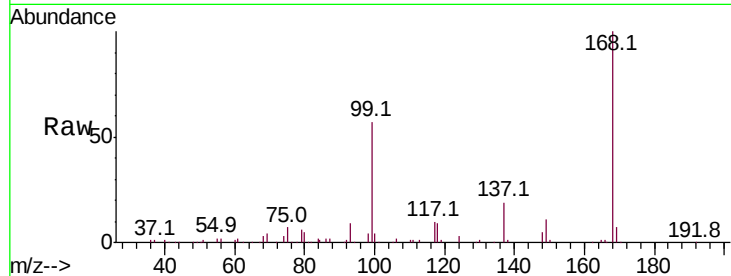
M-5(10-20)

Tot Ion:168 Resp: 287700

Ion Ratio Lower Upper

168 100

99 56.6 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

150000

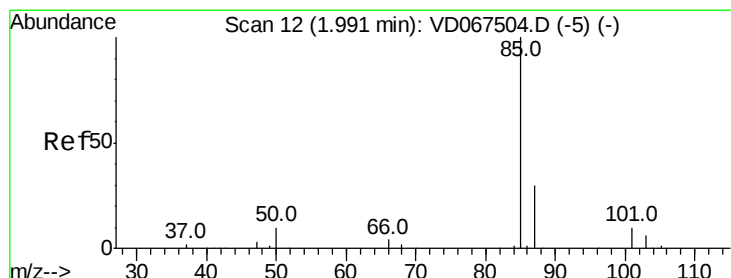
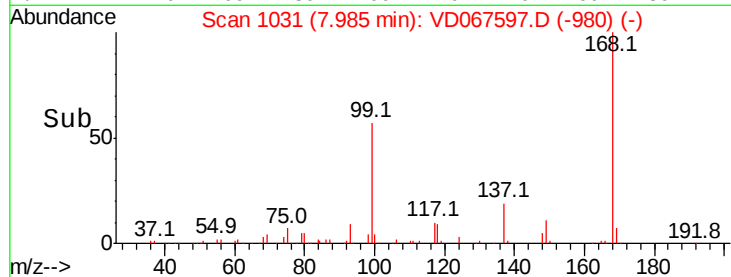
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.98 min Scan# 10

Delta R.T. -0.01 min

Lab File: VD067597.D

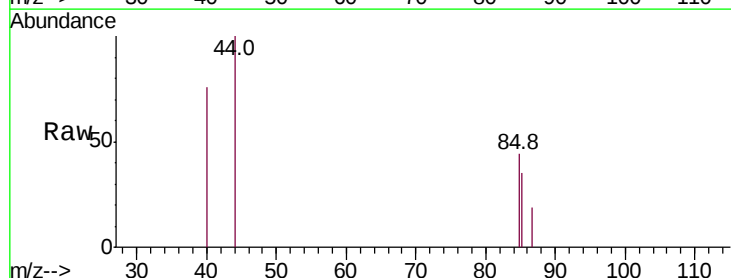
Acq: 11 Nov 2020 12:51

Tgt Ion: 85 Resp: 928

Ion Ratio Lower Upper

85 100

87 23.7 15.3 45.8



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.98

1000

800

600

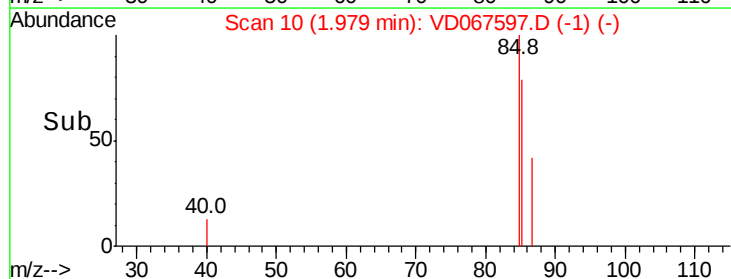
400

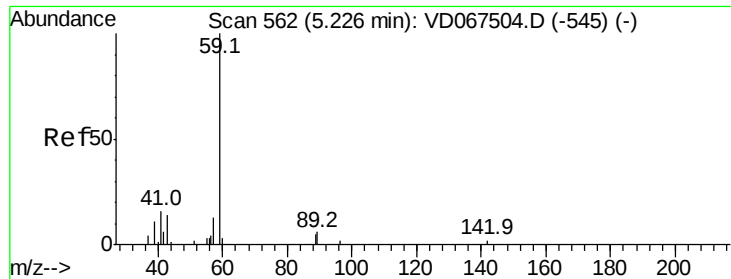
200

0

Time-->

1.94 1.96 1.98 2.00 2.02



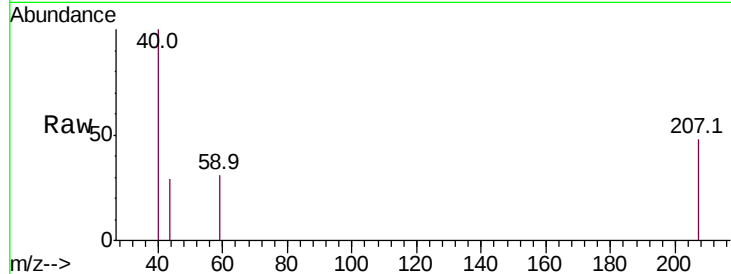


#11

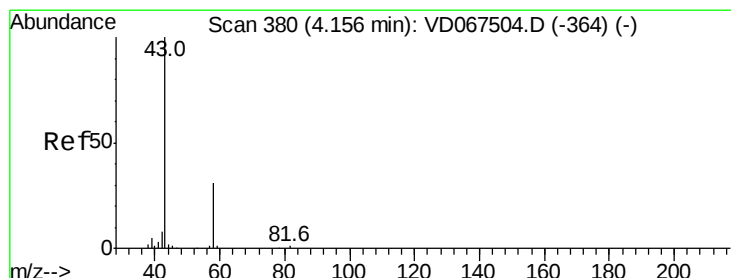
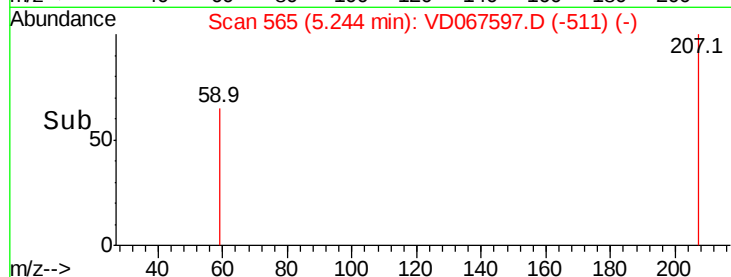
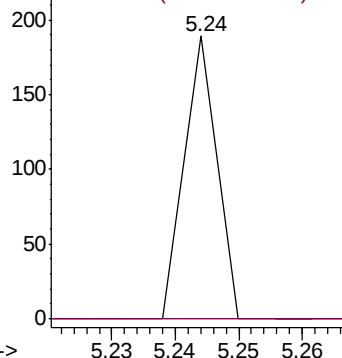
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.24 min Scan# 565
 Delta R.T. 0.02 min
 Lab File: VD067597.D
 Acq: 11 Nov 2020 12:51

Instrument :
 MSVOA_D
 ClientSampleId :
 M-5(10-20)

Tot Ion: 59 Resp: 67
 Ion Ratio Lower Upper
 59 100
 57 0.0 5.9 8.9#



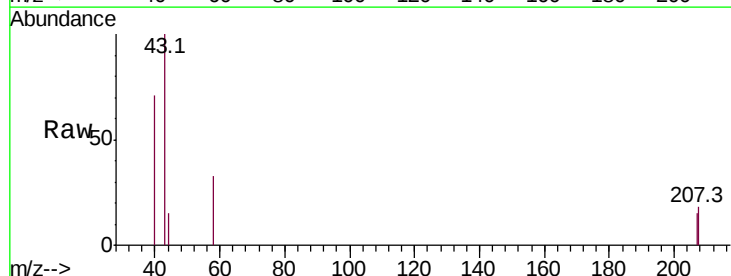
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



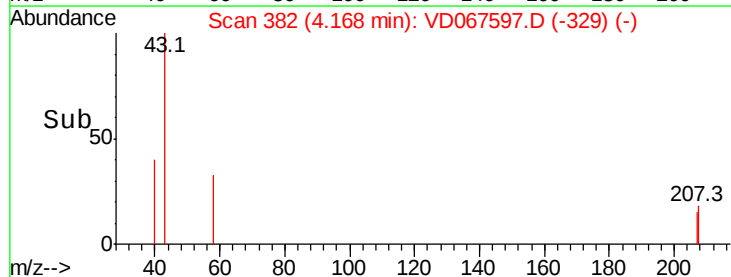
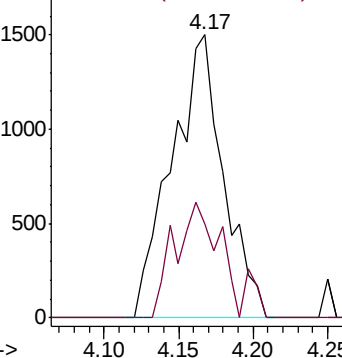
#16

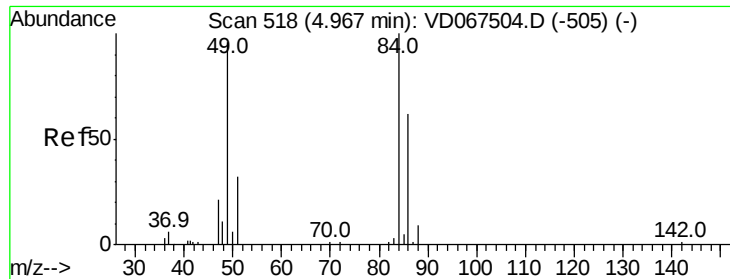
Acetone
 Concen: 9.582 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VD067597.D
 Acq: 11 Nov 2020 12:51

Tgt Ion: 43 Resp: 3607
 Ion Ratio Lower Upper
 43 100
 58 33.1 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC

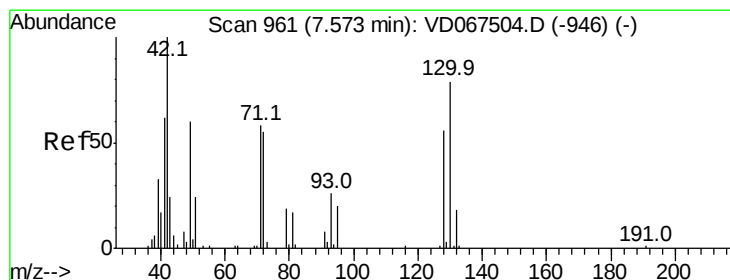
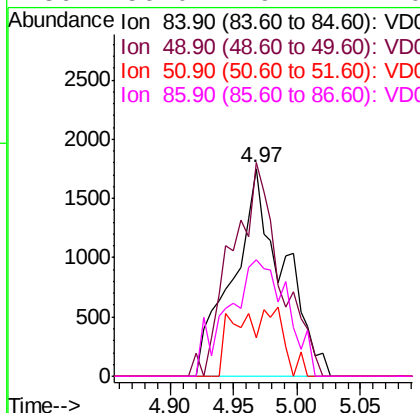
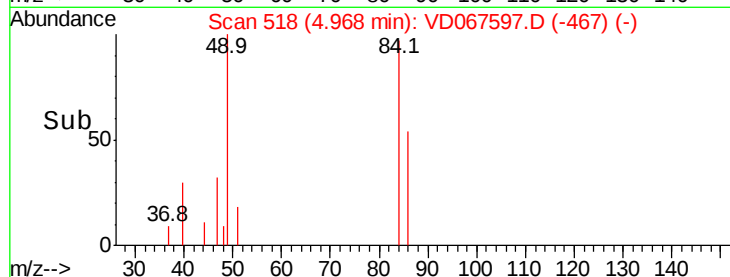
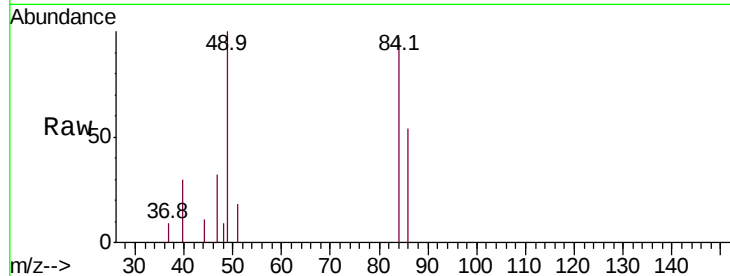




#20
Methvlene Chloride
Concen: 1.811 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD067597.D
Acq: 11 Nov 2020 12:51

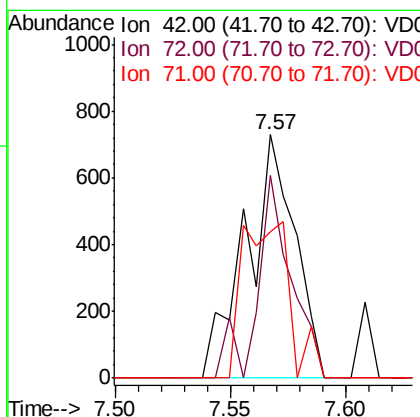
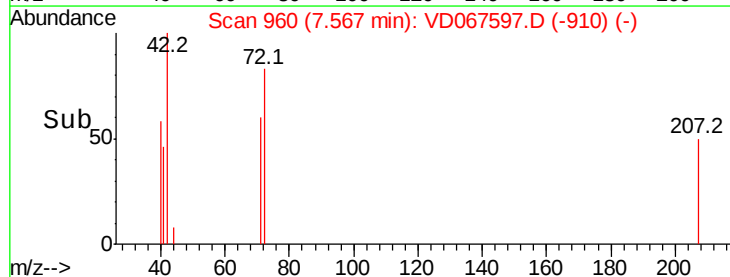
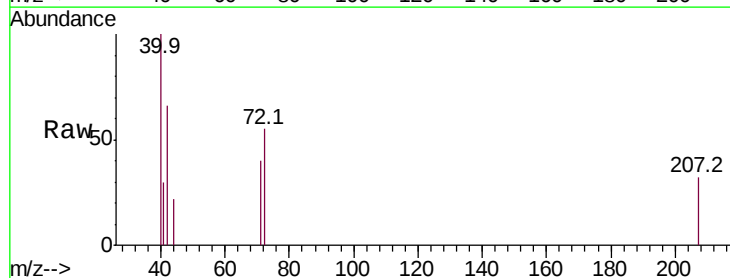
Instrument :
MSVOA_D
ClientSampleId :
M-5(10-20)

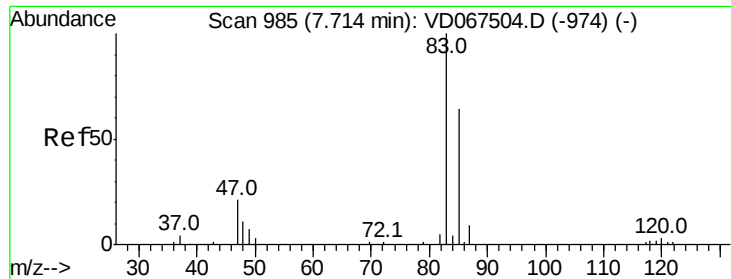
Tot Ion: 84 Resp: 4815
Ion Ratio Lower Upper
84 100
49 102.7 77.0 115.4
51 18.5 25.4 38.2#
86 56.0 49.4 74.0



#29
Tetrahydrofuran
Concen: 4.457 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD067597.D
Acq: 11 Nov 2020 12:51

Tgt Ion: 42 Resp: 1074
Ion Ratio Lower Upper
42 100
72 57.5 46.3 69.5
71 62.8 44.0 66.0

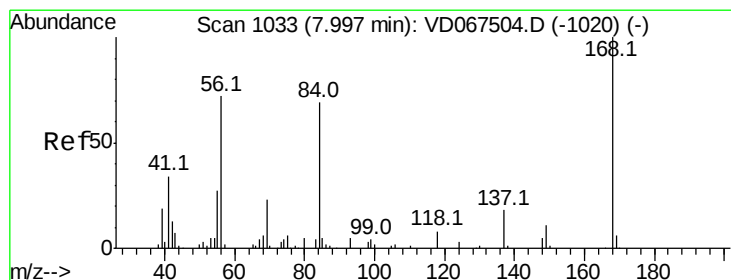
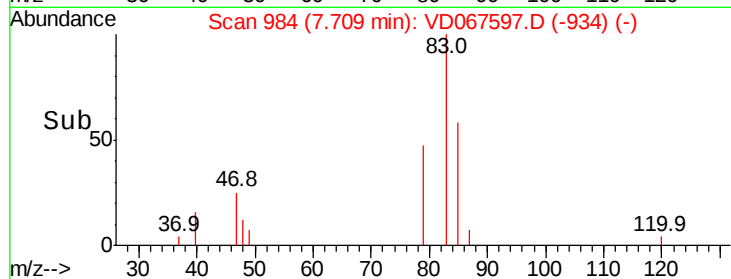
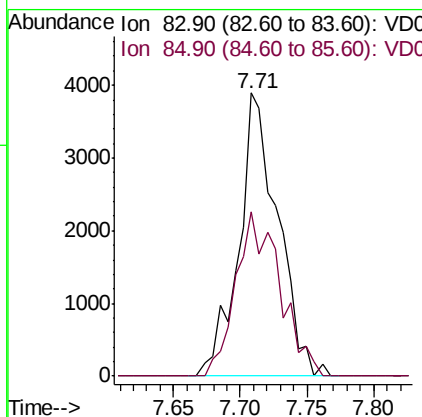
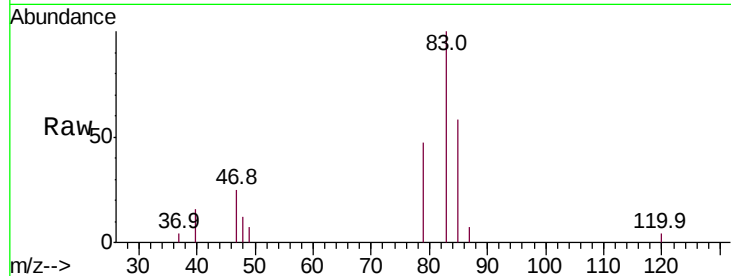




#30
Chloroform
Concen: 1.613 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD067597.D
Acq: 11 Nov 2020 12:51

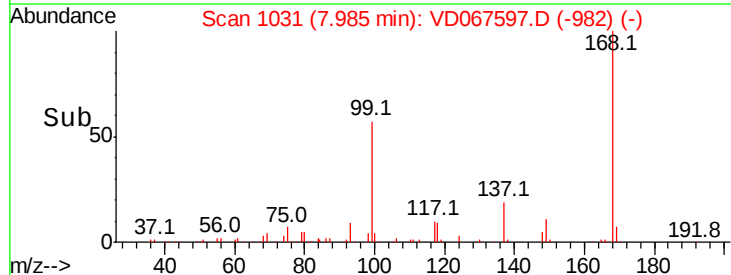
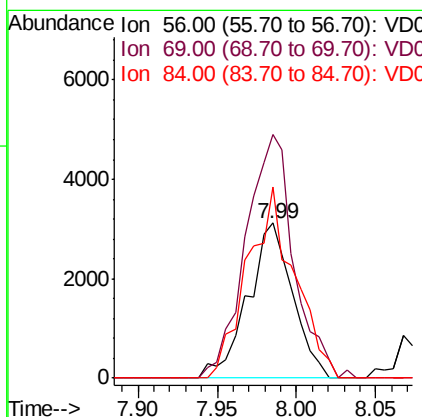
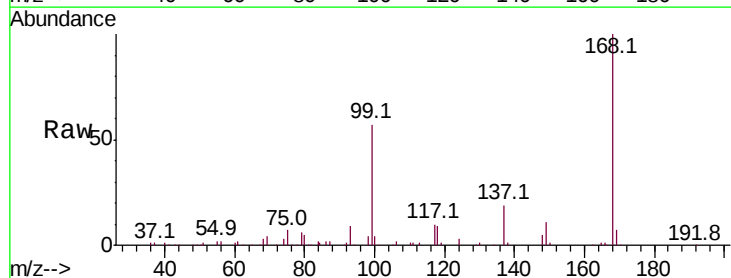
Instrument :
MSVOA_D
ClientSampleId :
M-5(10-20)

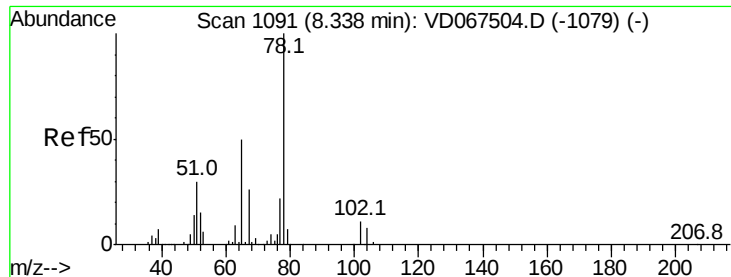
Tot Ion: 83 Resp: 7884
Ion Ratio Lower Upper
83 100
85 58.0 51.5 77.3



#31
Cyclohexane
Concen: 1.674 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VD067597.D
Acq: 11 Nov 2020 12:51

Tgt Ion: 56 Resp: 6108
Ion Ratio Lower Upper
56 100
69 157.1 25.9 38.9#
84 123.3 76.2 114.4#





#33

1,2-Dichloroethane-d4

Concen: 58.153 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD067597.D

Acq: 11 Nov 2020 12:51

Instrument :

MSVOA_D

ClientSampleId :

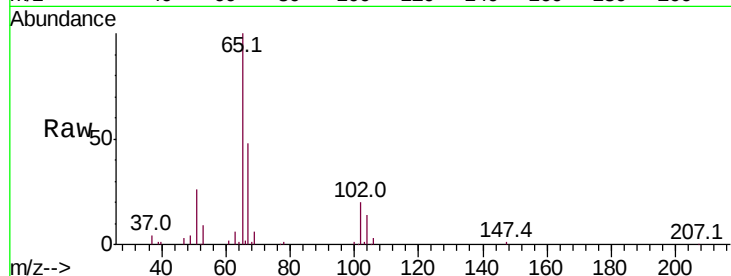
M-5(10-20)

Tot Ion: 65 Resp: 146290

Ion Ratio Lower Upper

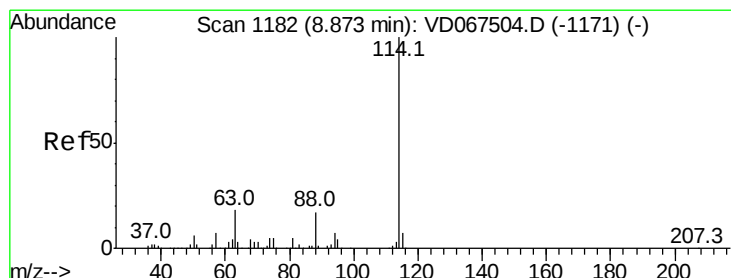
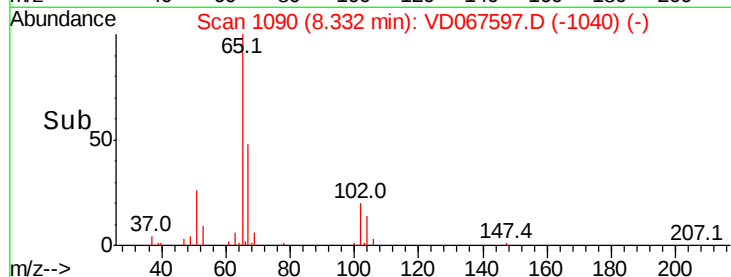
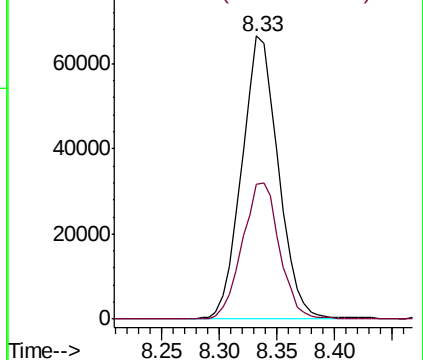
65 100

67 49.0 0.0 99.4



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. -0.01 min

Lab File: VD067597.D

Acq: 11 Nov 2020 12:51

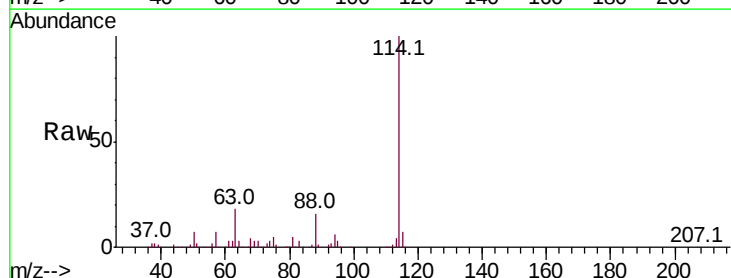
Tgt Ion:114 Resp: 463891

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.0

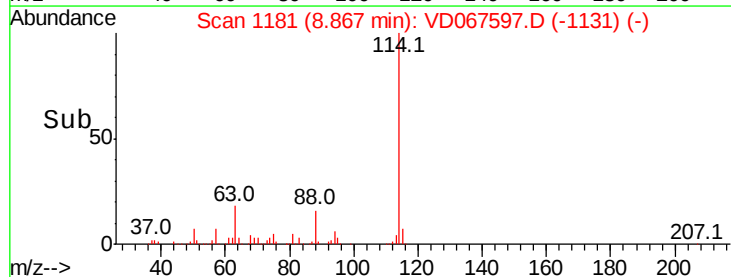
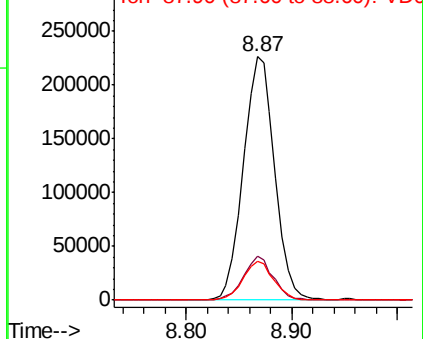
88 16.0 0.0 33.0

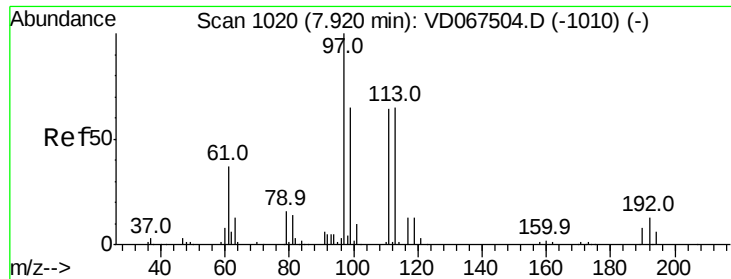


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

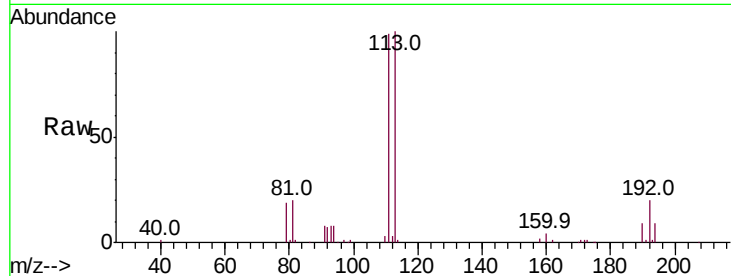




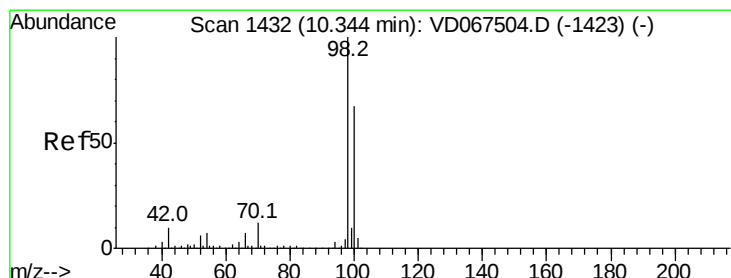
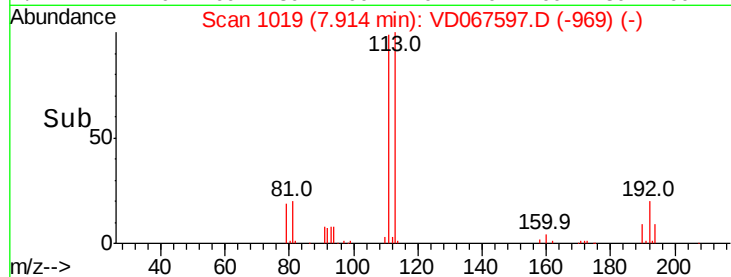
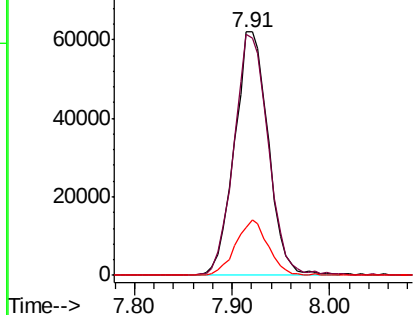
#35
 Dibromofluoromethane
 Concen: 53.471 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD067597.D
 Acq: 11 Nov 2020 12:51

Instrument :
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 M-5(10-20)

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.0	120.0
192	21.6	16.3	24.5

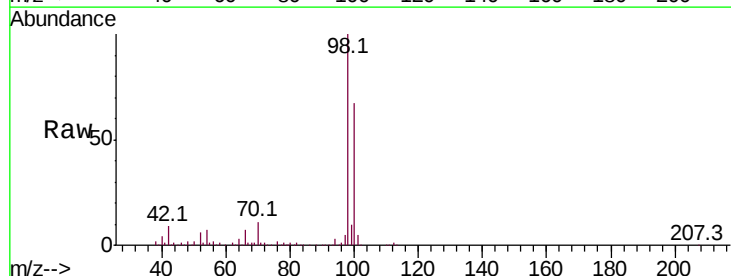


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

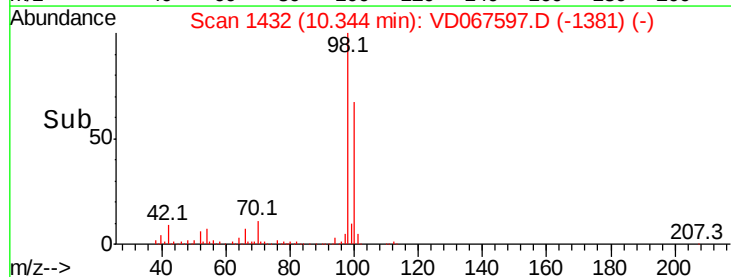
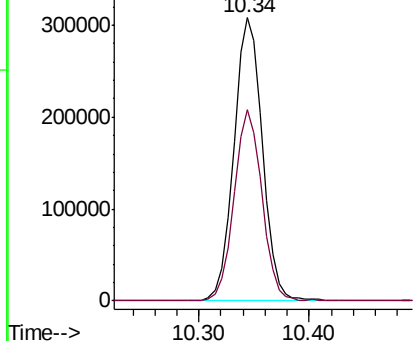


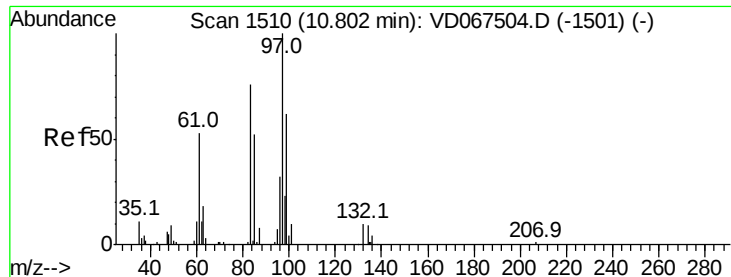
#50
 Toluene-d8
 Concen: 56.855 ug/l
 RT: 10.34 min Scan# 1432
 Delta R.T. 0.00 min
 Lab File: VD067597.D
 Acq: 11 Nov 2020 12:51

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.0	79.6



Abundance Ion 98.00 (97.70 to 98.70): VDC
 Ion 100.00 (99.70 to 100.70): VD

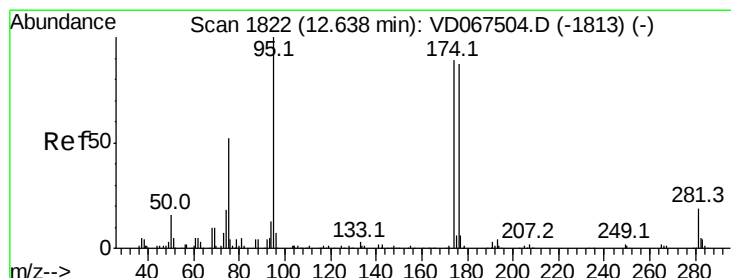
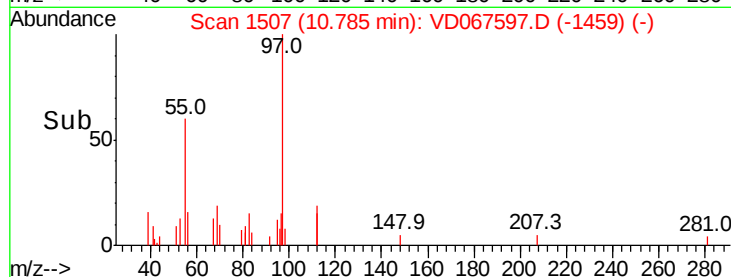
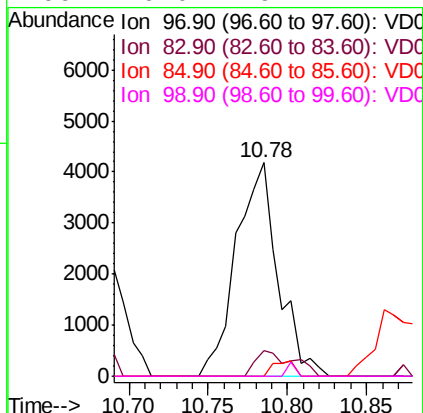
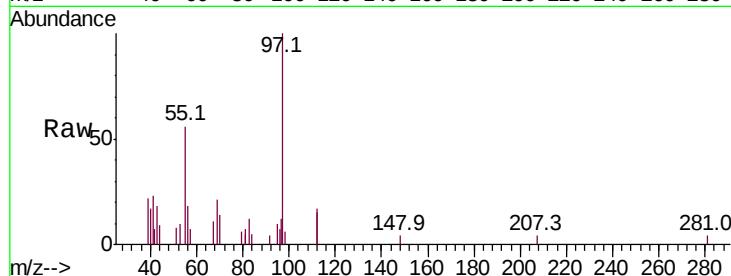




#55
 1,1,2-Trichloroethane
 Concen: 3.914 ug/l
 RT: 10.78 min Scan# 1507
 Delta R.T. -0.02 min
 Lab File: VD067597.D
 Acq: 11 Nov 2020 12:51

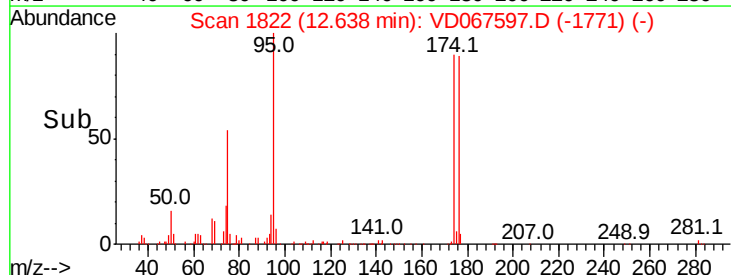
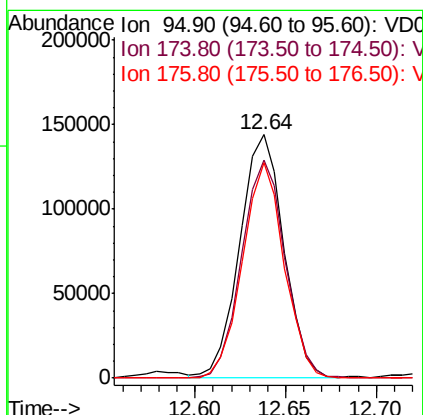
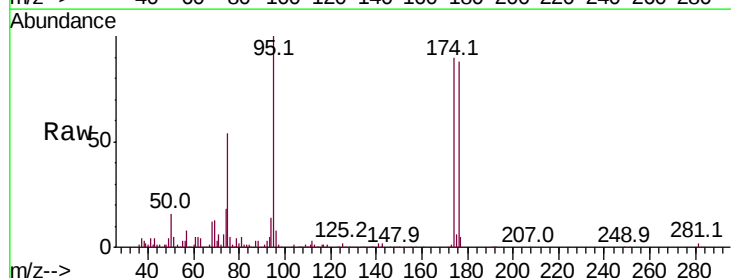
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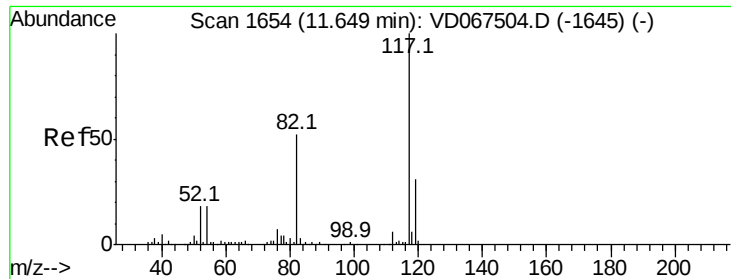
Tot Ion: 97 Resp: 7657
 Ion Ratio Lower Upper
 97 100
 83 12.1 61.0 91.6#
 85 0.0 41.5 62.3#
 99 0.0 49.4 74.2#



#62
 4-Bromofluorobenzene
 Concen: 71.583 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD067597.D
 Acq: 11 Nov 2020 12:51

Tgt Ion: 95 Resp: 242741
 Ion Ratio Lower Upper
 95 100
 174 88.6 0.0 177.8
 176 84.1 0.0 172.0

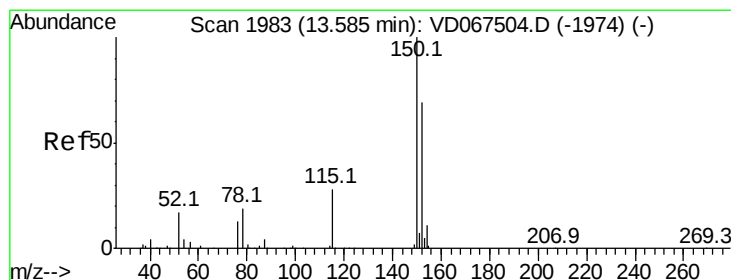
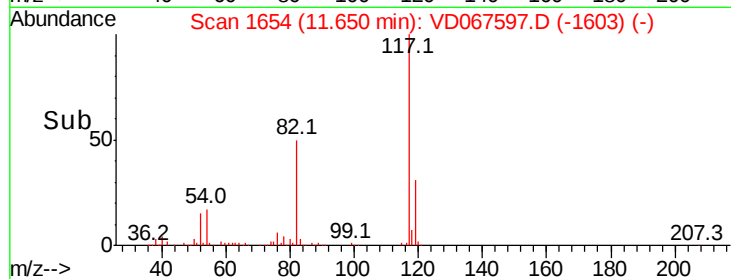
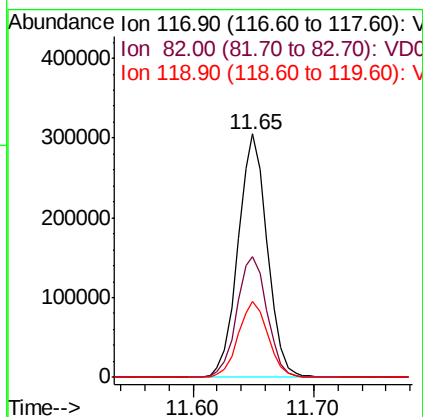
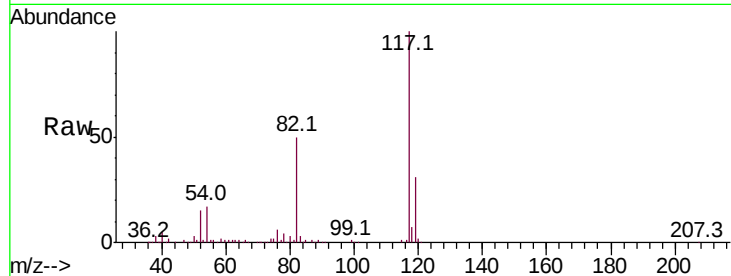




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067597.D
Acq: 11 Nov 2020 12:51

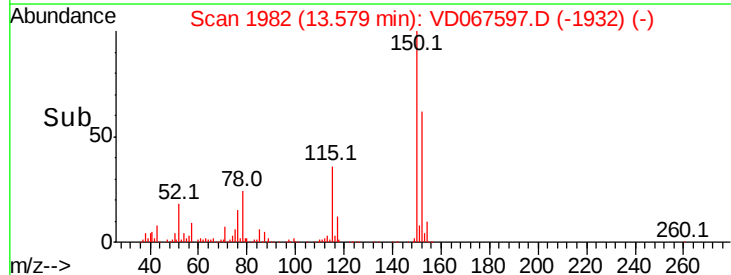
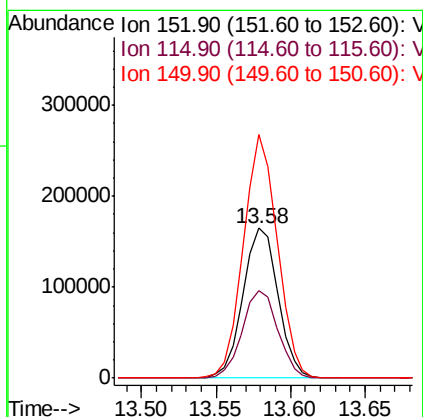
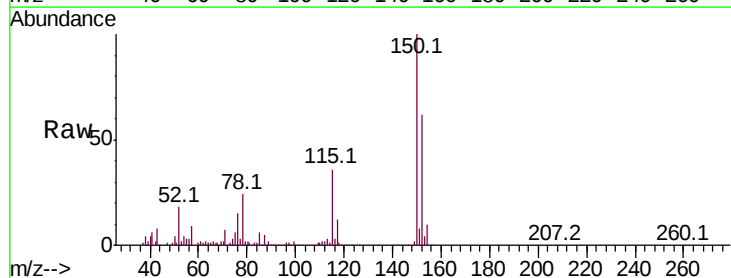
Instrument :
MSVOA_D
ClientSampleId :
M-5(10-20)

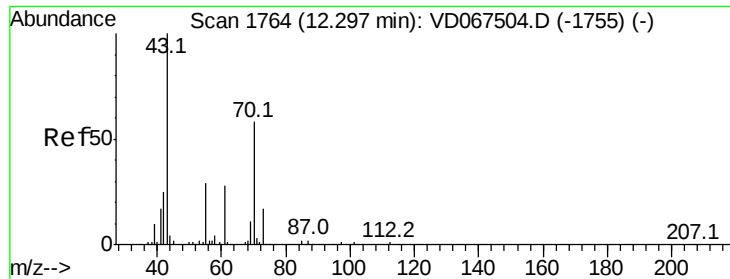
Tot Ion:117 Resp: 514209
Ion Ratio Lower Upper
117 100
82 49.7 41.6 62.4
119 31.4 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067597.D
Acq: 11 Nov 2020 12:51

Tgt Ion:152 Resp: 268367
Ion Ratio Lower Upper
152 100
115 59.3 29.3 88.0
150 157.0 0.0 338.2

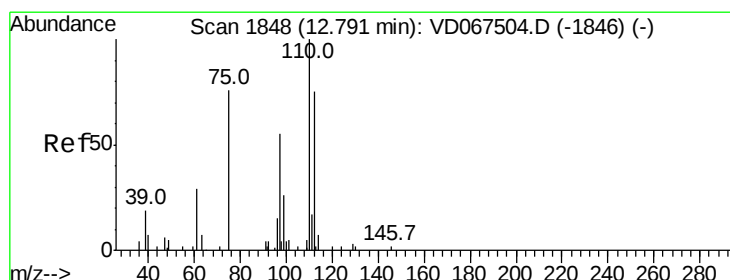
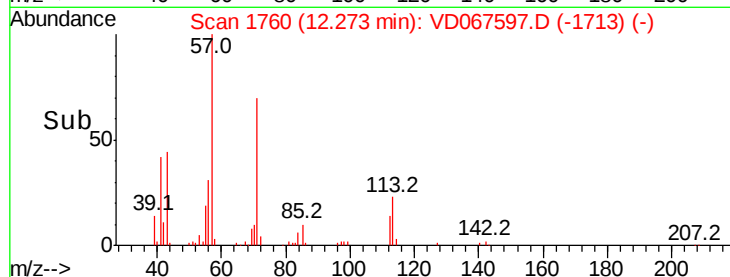
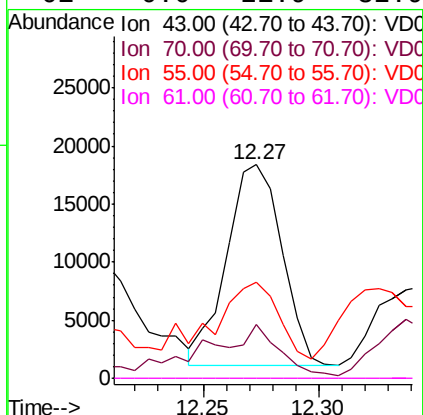
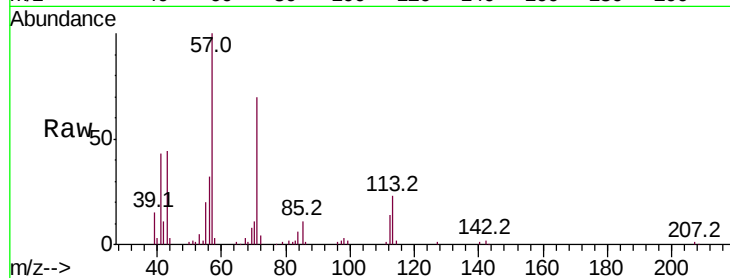




#74
N-amvl acetate
Concen: 12.675 ug/l
RT: 12.27 min Scan# 1760
Delta R.T. -0.02 min
Lab File: VD067597.D
Acq: 11 Nov 2020 12:51

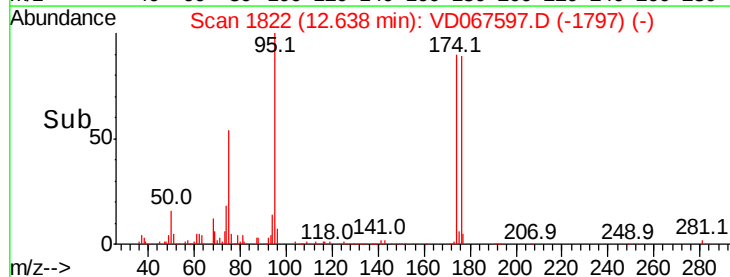
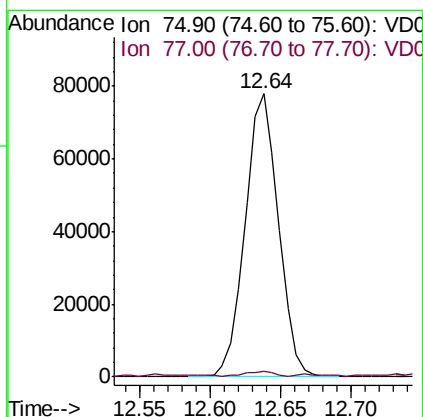
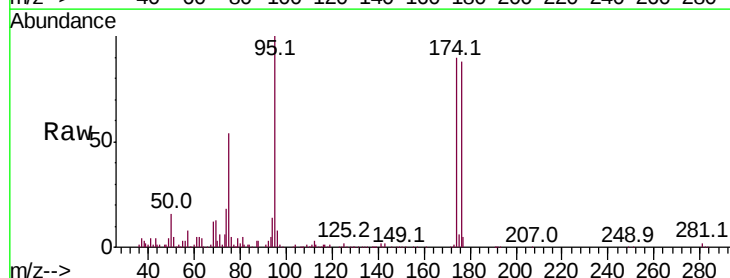
Instrument :
MSVOA_D
ClientSampleId :
M-5(10-20)

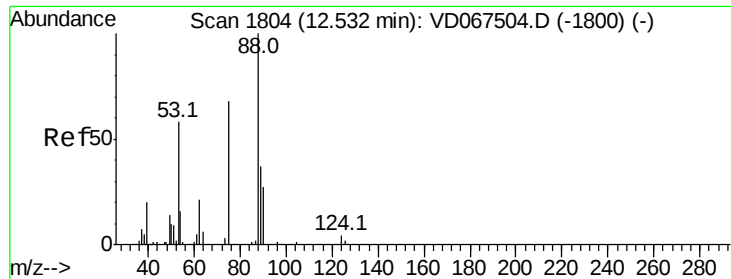
Tot Ion: 43 Resp: 28928
Ion Ratio Lower Upper
43 100
70 32.8 42.6 64.0#
55 44.1 23.7 35.5#
61 0.0 21.9 32.9#



#76
1,2,3-Trichloropropane
Concen: 79.409 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD067597.D
Acq: 11 Nov 2020 12:51

Tgt Ion: 75 Resp: 128559
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 161.222 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067597.D

Acq: 11 Nov 2020 12:51

Instrument :

MSVOA_D

ClientSampleId :

M-5(10-20)

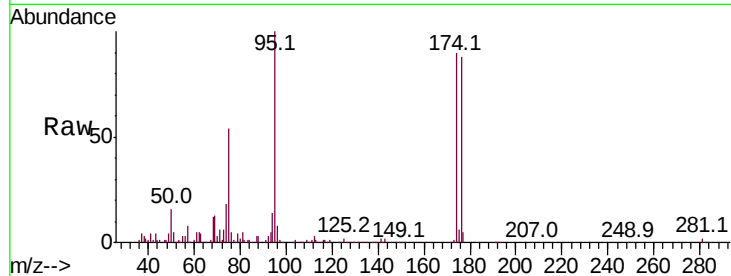
Tot Ion: 75 Resp: 128559

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

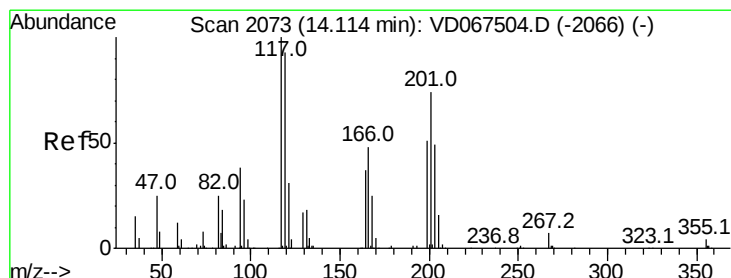
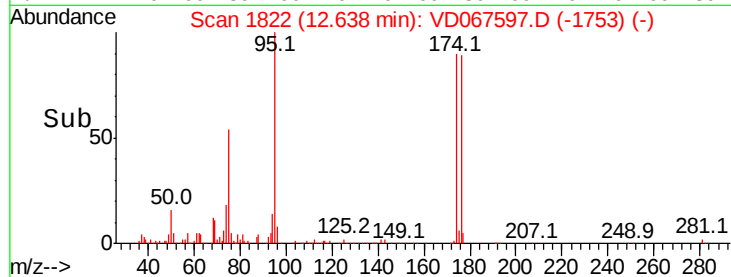
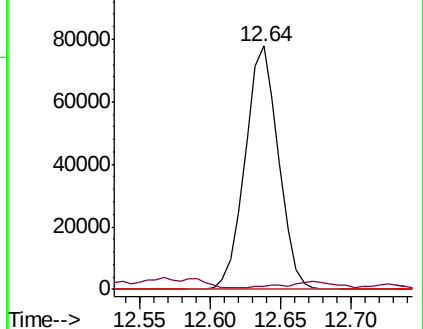
89 0.1 44.6 67.0#



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



#90

Hexachloroethane

Concen: 1.512 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. 0.01 min

Lab File: VD067597.D

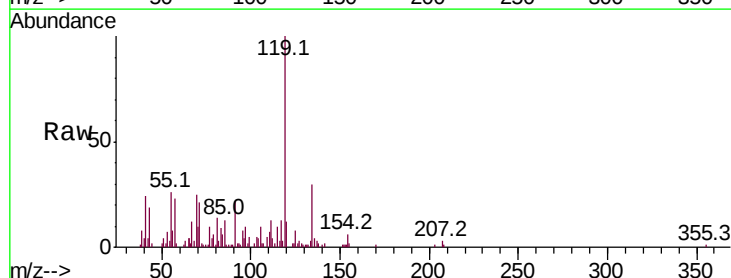
Acq: 11 Nov 2020 12:51

Tgt Ion: 117 Resp: 4661

Ion Ratio Lower Upper

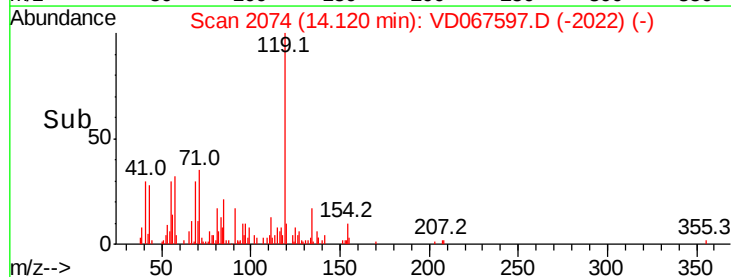
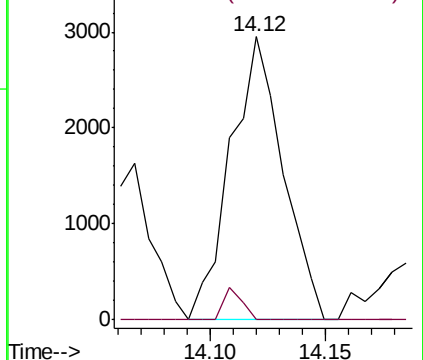
117 100

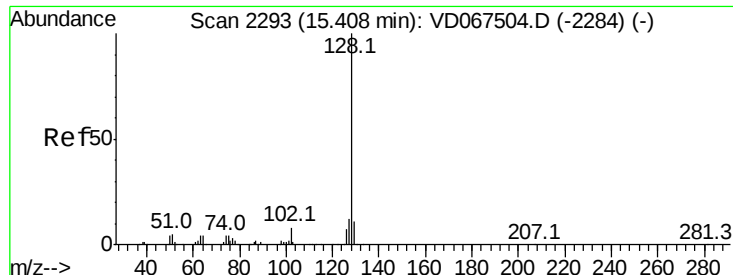
201 3.9 40.7 122.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

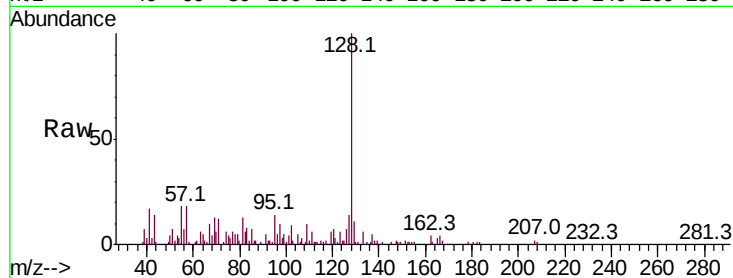




#95
Naphthalene
Concen: 9.440 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. -0.01 min
Lab File: VD067597.D
Acq: 11 Nov 2020 12:51

Instrument :
MSVOA_D
ClientSampleId :
M-5(10-20)

Tot Ion	Ratio	Lower	Upper
128	100		
127	20.8	10.2	15.4#
129	12.2	8.9	13.3



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

