

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111120\
 Data File : VD067603.D
 Acq On : 11 Nov 2020 15:36
 Operator : VA/SY
 Sample : L4702-02RE
 Misc : 6.19G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

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

Quant Time: Nov 12 00:09:57 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	7.98	168	341440	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	556225	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	596298	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	311201	50.00	ug/l	0.00

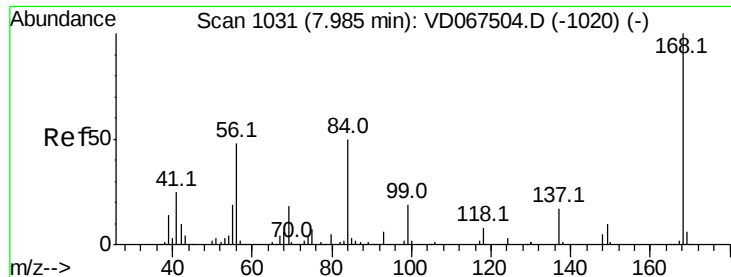
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	160477	53.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.50%	
35) Dibromofluoromethane	7.92	113	174427	52.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.10%	
50) Toluene-d8	10.34	98	659316	55.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.96%	
62) 4-Bromofluorobenzene	12.64	95	285271	70.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	140.32%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	2.00	85	347	Below Cal	#	44
16) Acetone	4.17	43	3145	7.039	ug/l #	78
20) Methylene Chloride	4.96	84	7718	2.446	ug/l #	81
29) Tetrahydrofuran	7.57	42	1342	4.693	ug/l #	67
30) Chloroform	7.72	83	8808	1.518	ug/l	90
31) Cyclohexane	7.99	56	5839	1.348	ug/l #	53
36) 1,1-Dichloropropene	7.98	75	23286	4.891	ug/l #	48
38) Carbon Tetrachloride	7.98	117	33900	5.480	ug/l #	16
51) 4-Methyl-2-Pentanone	10.12	43	6282	5.373	ug/l #	38
55) 1,1,2-Trichloroethane	10.78	97	16360	6.974	ug/l #	23
59) 2-Hexanone	10.96	43	10280	12.575	ug/l #	23
74) N-amyl acetate	12.27	43	59983	22.665	ug/l #	65
76) 1,2,3-Trichloropropane	12.64	75	143130	76.241	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	143130	154.789	ug/l #	11
90) Hexachloroethane	14.12	117	4800	1.343	ug/l #	9
95) Naphthalene	15.40	128	55682	6.517	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

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ClientSampleId :

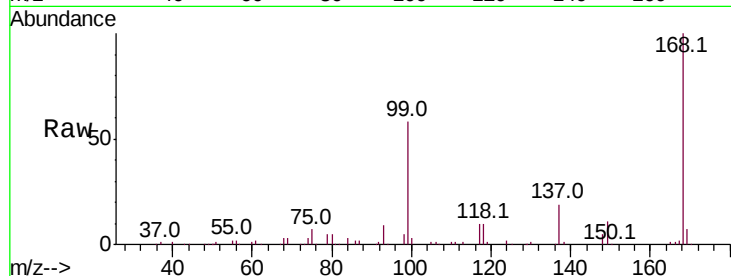
M-5(10-20)RE

Tot Ion:168 Resp: 341440

Ion Ratio Lower Upper

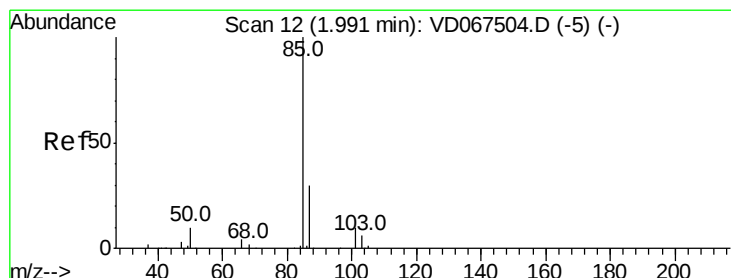
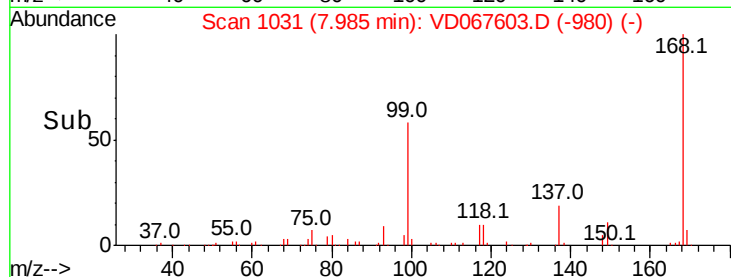
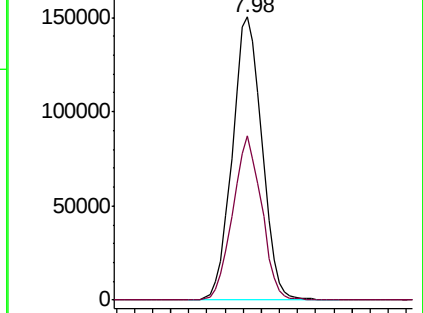
168 100

99 58.2 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 13

Delta R.T. 0.01 min

Lab File: VD067603.D

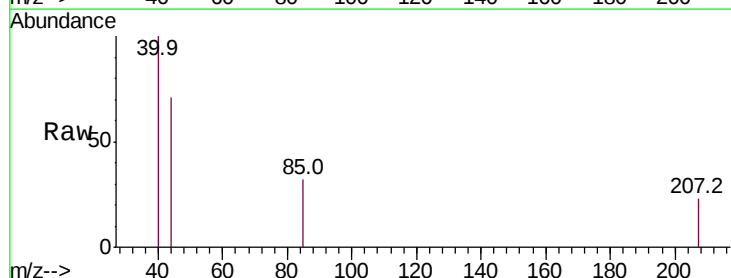
Acq: 11 Nov 2020 15:36

Tgt Ion: 85 Resp: 347

Ion Ratio Lower Upper

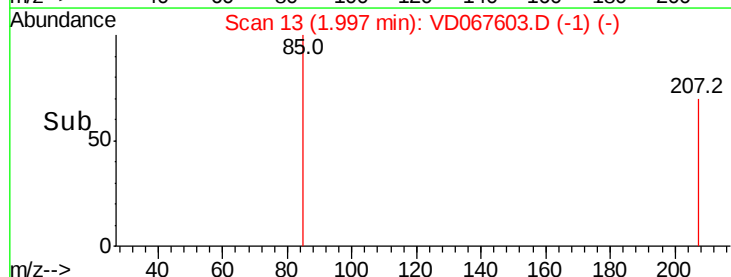
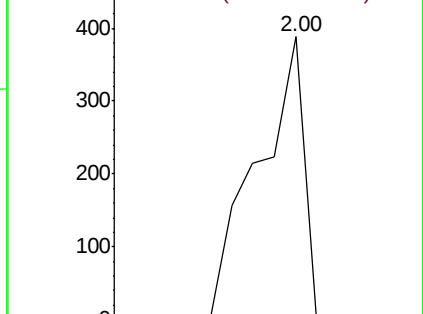
85 100

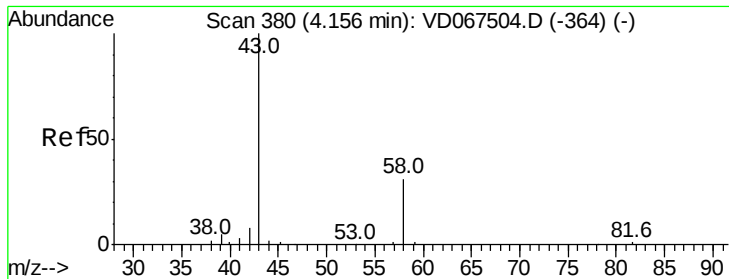
87 0.0 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#16

Acetone

Concen: 7.039 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD067603.D

Acq: 11 Nov 2020 15:36

Instrument :

MSVOA_D

ClientSampleId :

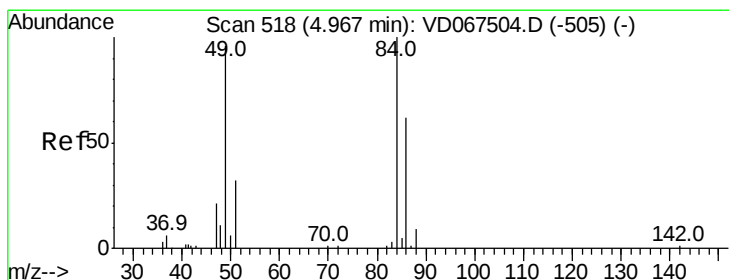
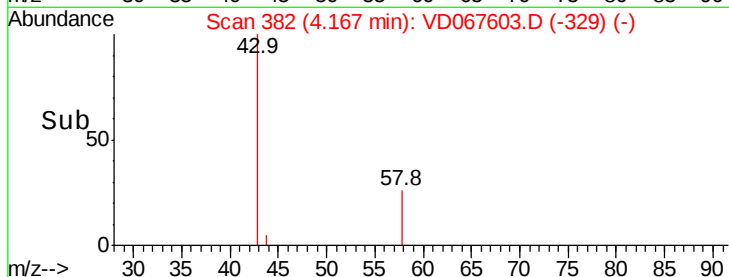
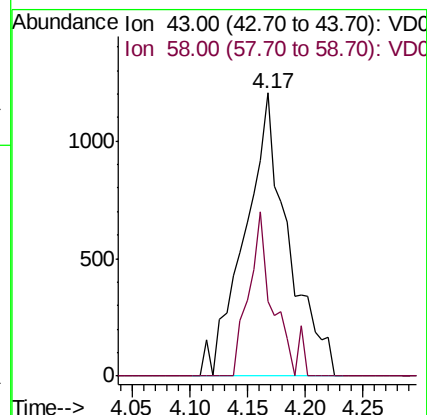
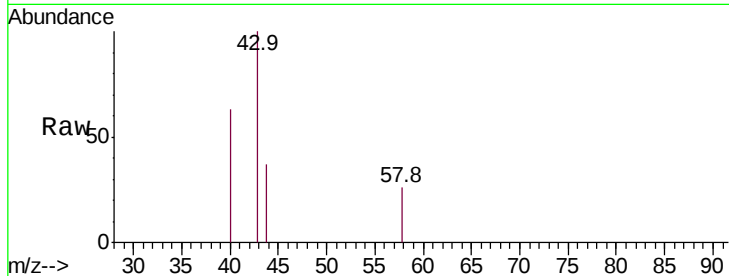
M-5(10-20)RE

Tot Ion: 43 Resp: 3145

Ion Ratio Lower Upper

43 100

58 19.2 25.2 37.8#



#20

Methylene Chloride

Concen: 2.446 ug/l

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD067603.D

Acq: 11 Nov 2020 15:36

Tgt Ion: 84 Resp: 7718

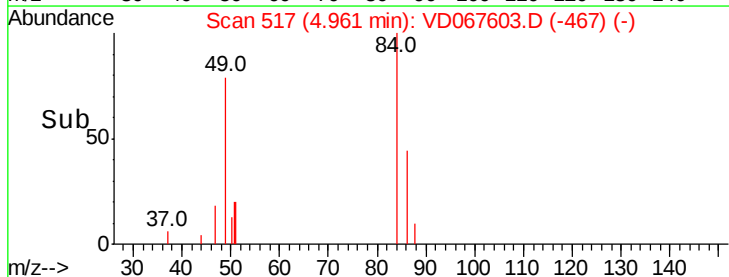
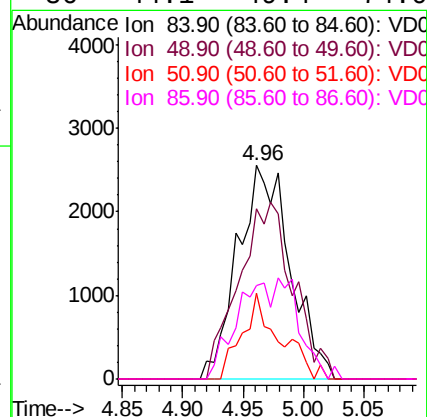
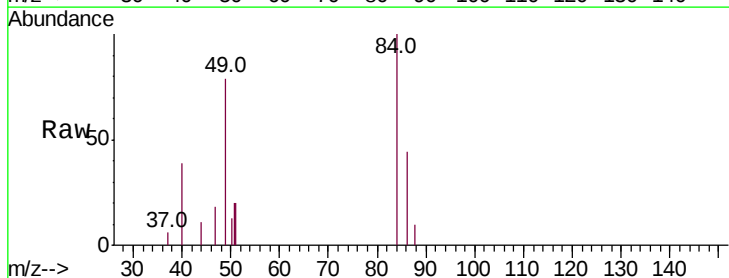
Ion Ratio Lower Upper

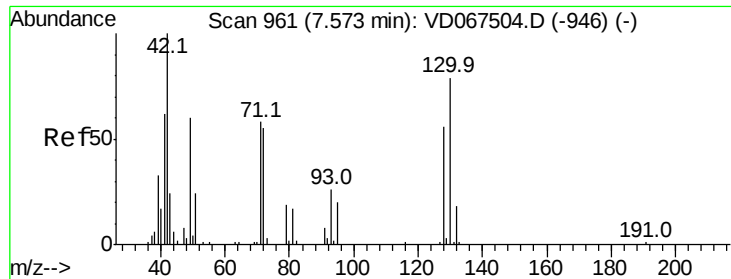
84 100

49 79.5 77.0 115.4

51 40.0 25.4 38.2#

86 44.1 49.4 74.0#

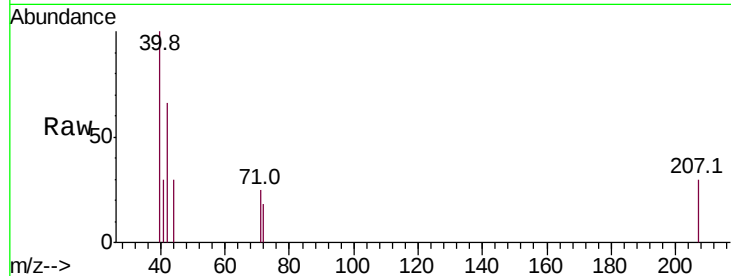




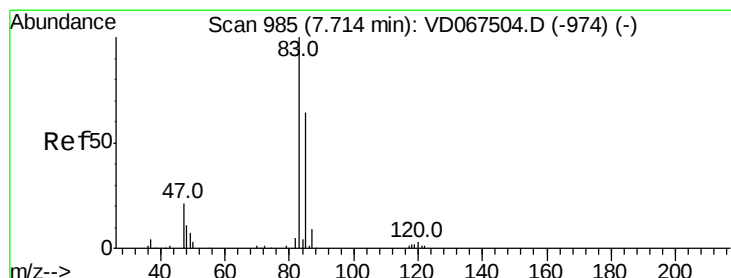
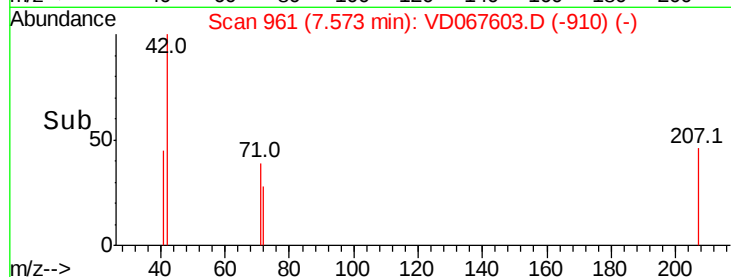
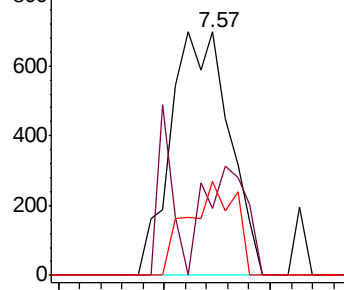
#29
Tetrahydrofuran
Concen: 4.693 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD067603.D
Acq: 11 Nov 2020 15:36

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

Tot Ion: 42 Resp: 1342
Ion Ratio Lower Upper
42 100
72 33.0 46.3 69.5#
71 31.1 44.0 66.0#

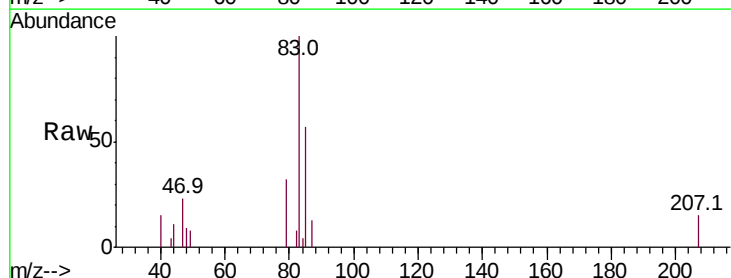


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

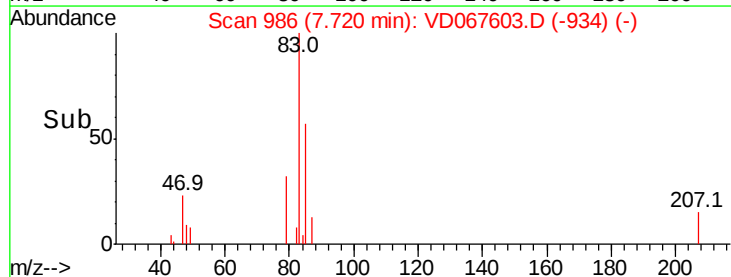
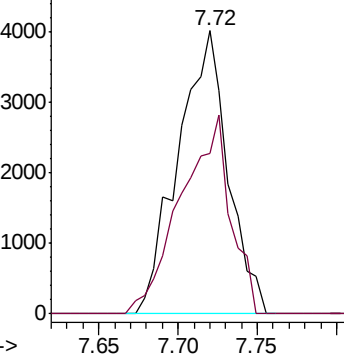


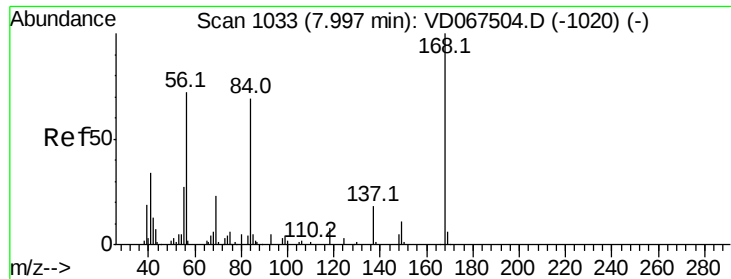
#30
Chloroform
Concen: 1.518 ug/l
RT: 7.72 min Scan# 986
Delta R.T. 0.01 min
Lab File: VD067603.D
Acq: 11 Nov 2020 15:36

Tgt Ion: 83 Resp: 8808
Ion Ratio Lower Upper
83 100
85 56.7 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC

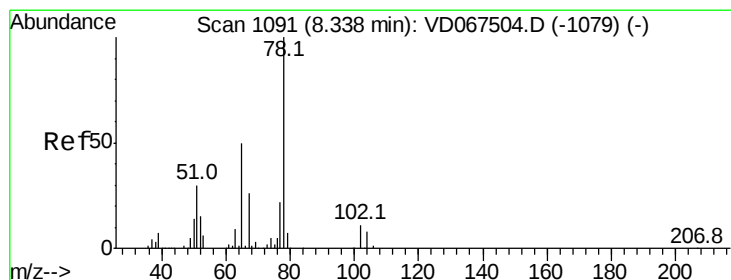
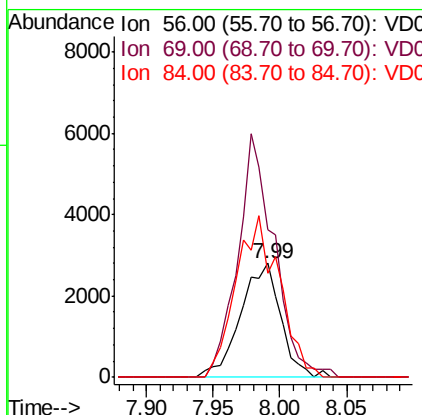
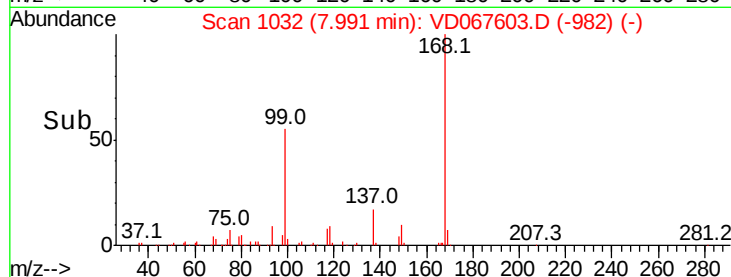
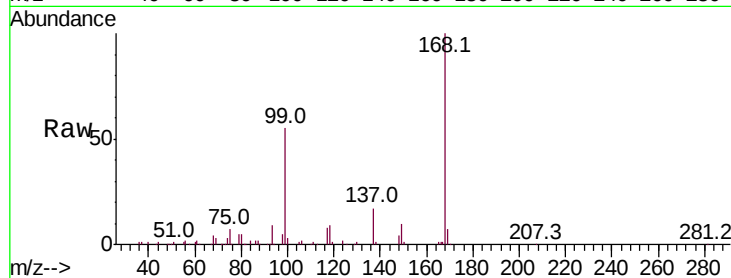




#31
Cyclohexane
Concen: 1.348 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. -0.01 min
Lab File: VD067603.D
Acq: 11 Nov 2020 15:36

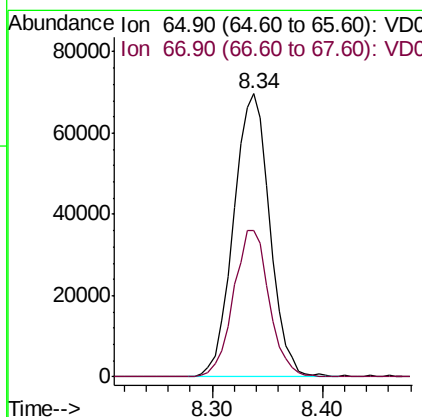
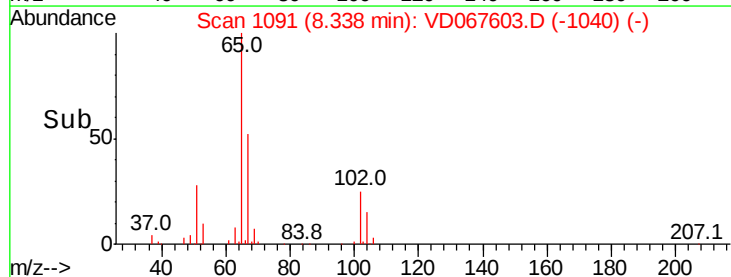
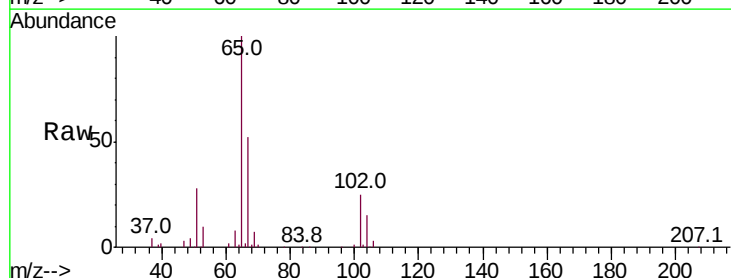
Instrument :
MSVOA_D
ClientSampleId :
M-5(10-20)RE

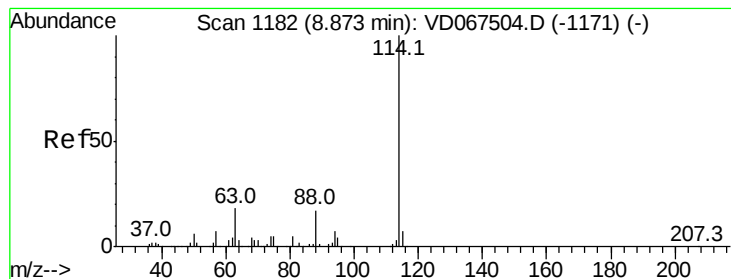
Tot Ion: 56 Resp: 5839
Ion Ratio Lower Upper
56 100
69 129.8 25.9 38.9#
84 91.6 76.2 114.4



#33
1,2-Dichloroethane-d4
Concen: 53.752 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD067603.D
Acq: 11 Nov 2020 15:36

Tgt Ion: 65 Resp: 160477
Ion Ratio Lower Upper
65 100
67 51.0 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.01 min

Lab File: VD067603.D

Acq: 11 Nov 2020 15:36

Instrument :

MSVOA_D

ClientSampleId :

M-5(10-20)RE

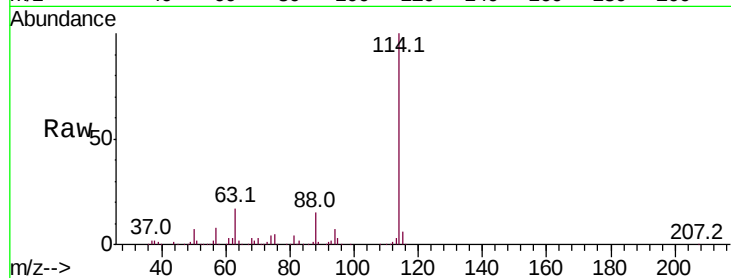
Tot Ion:114 Resp: 556225

Ion Ratio Lower Upper

114 100

63 16.9 0.0 35.0

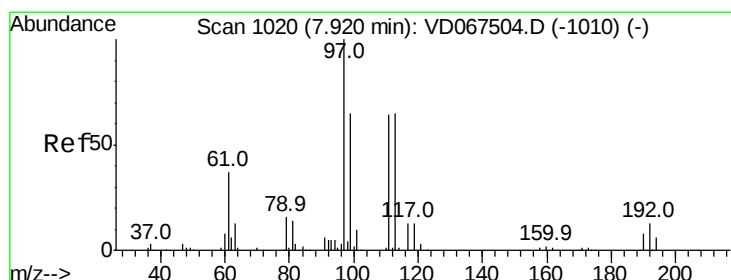
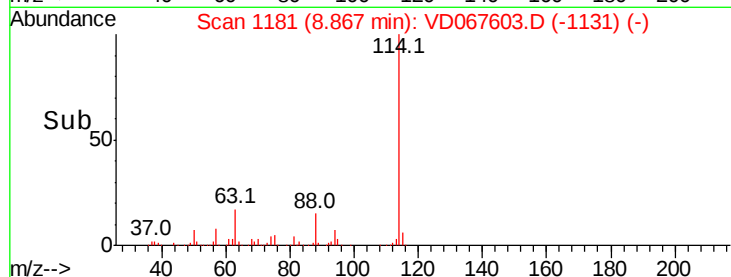
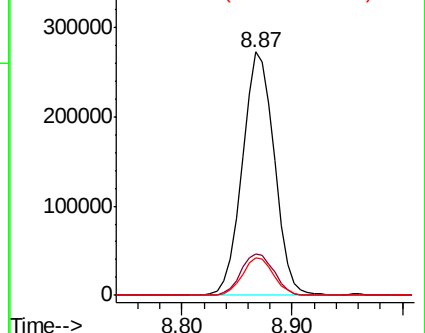
88 15.2 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 52.048 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD067603.D

Acq: 11 Nov 2020 15:36

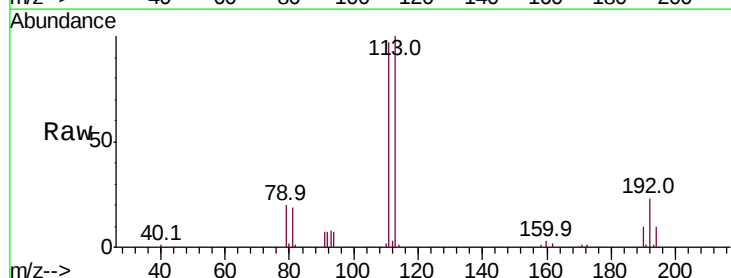
Tgt Ion:113 Resp: 174427

Ion Ratio Lower Upper

113 100

111 101.6 80.0 120.0

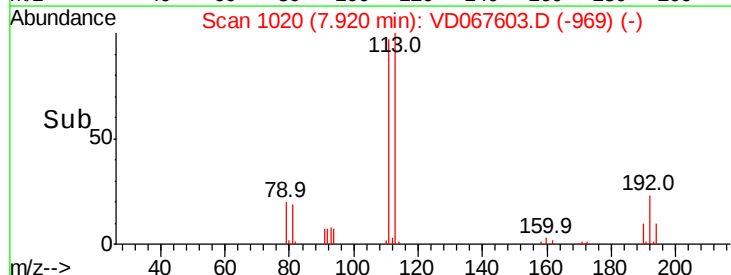
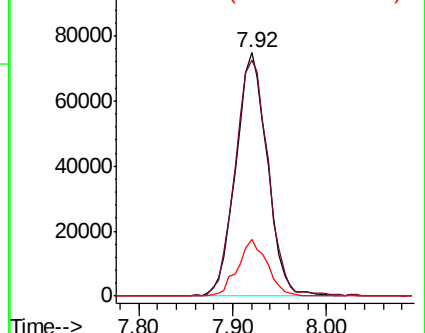
192 21.7 16.3 24.5

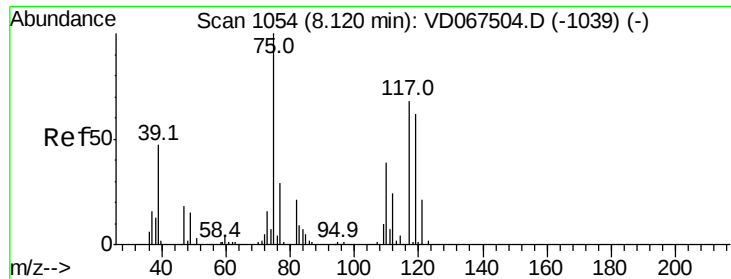


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.891 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067603.D

Acq: 11 Nov 2020 15:36

Instrument :

MSVOA_D

ClientSampleId :

M-5(10-20)RE

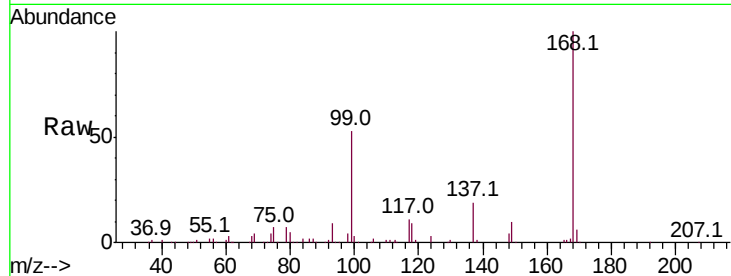
Tot Ion: 75 Resp: 23286

Ion Ratio Lower Upper

75 100

110 10.3 19.9 59.7#

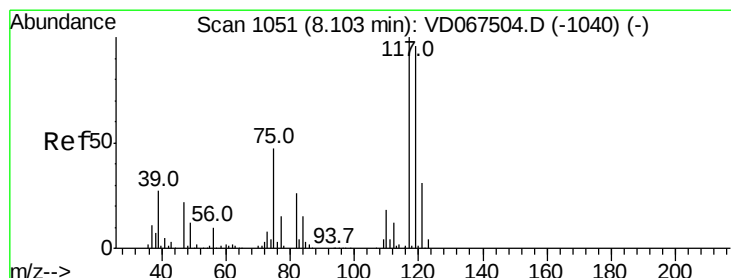
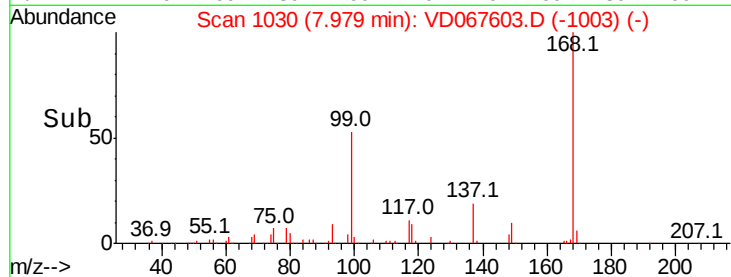
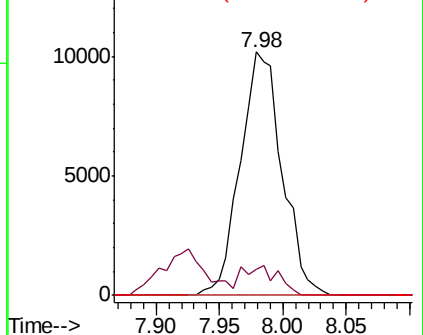
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



#38

Carbon Tetrachloride

Concen: 5.480 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067603.D

Acq: 11 Nov 2020 15:36

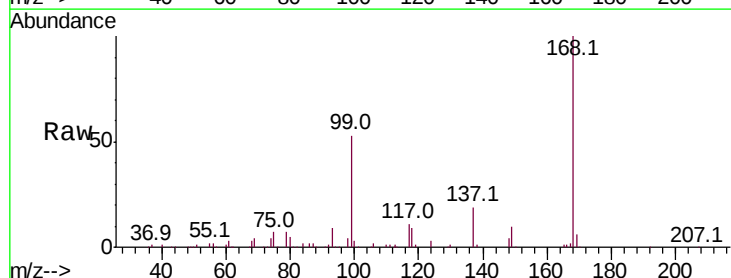
Tgt Ion: 117 Resp: 33900

Ion Ratio Lower Upper

117 100

119 5.7 76.9 115.3#

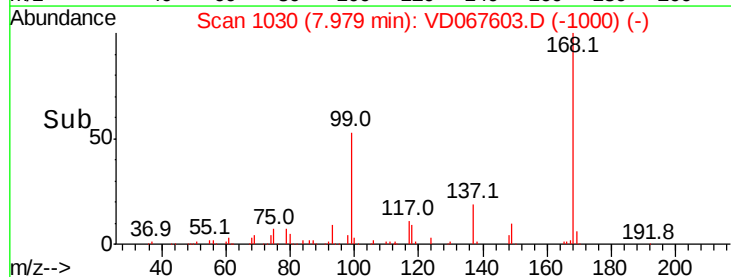
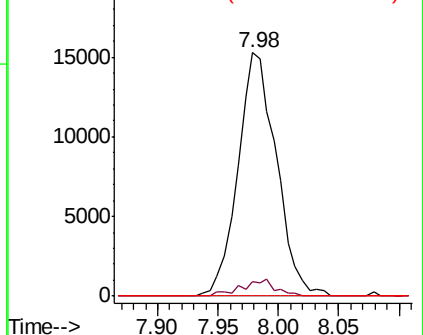
121 0.0 24.5 36.7#

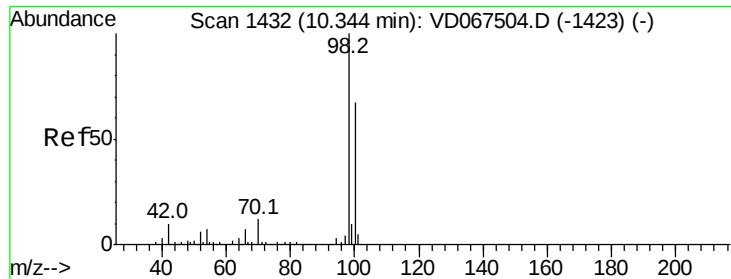


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

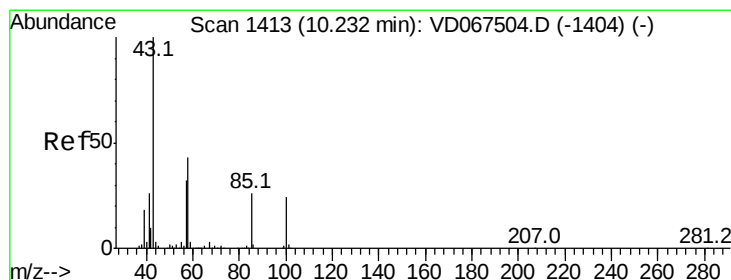
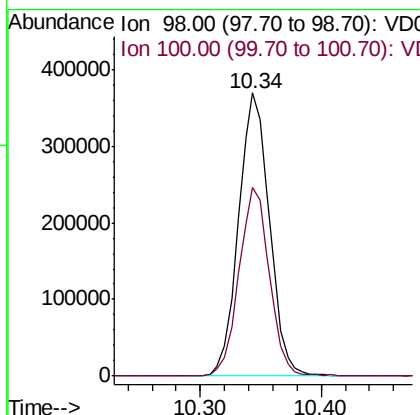
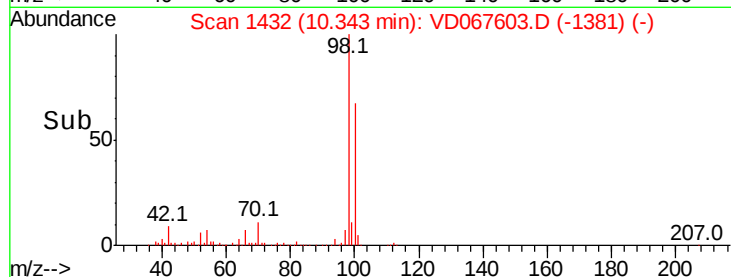
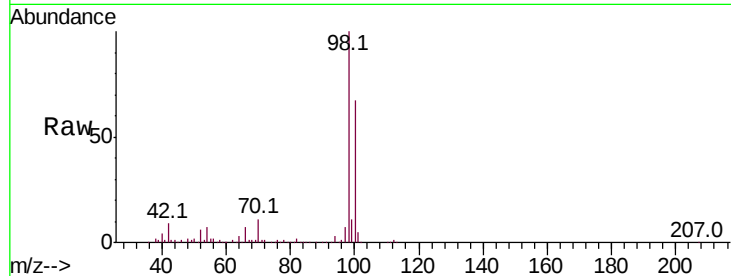




#50
Toluene-d8
Concen: 55.983 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD067603.D
Acq: 11 Nov 2020 15:36

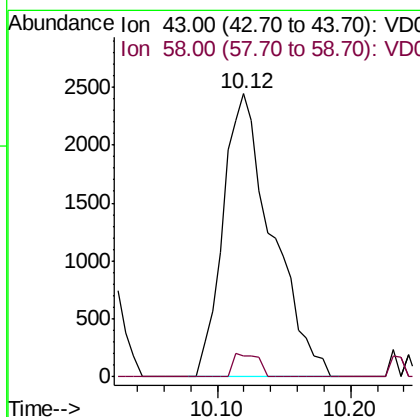
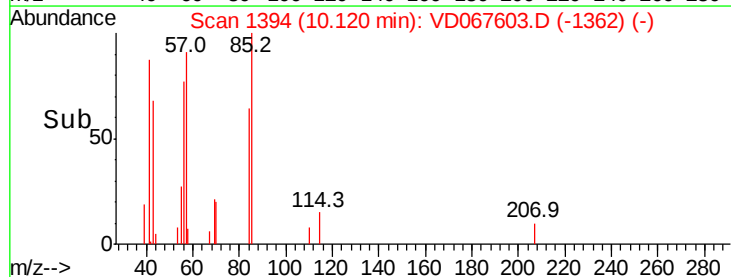
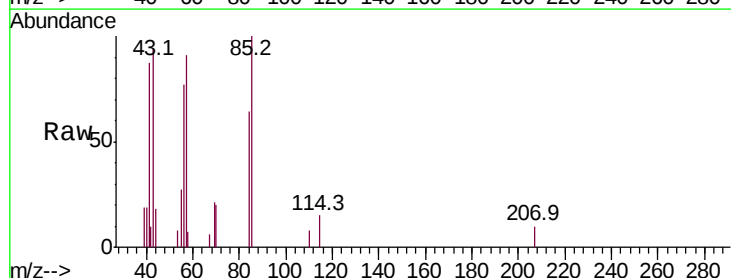
Instrument :
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M-5(10-20)RE

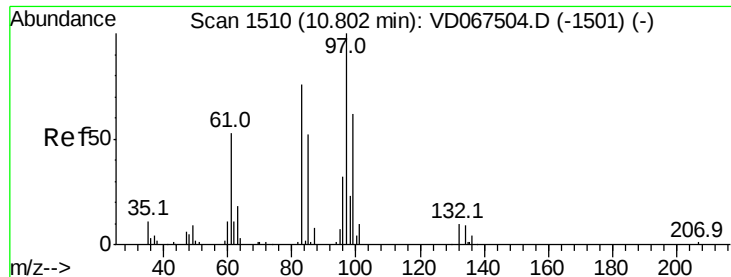
Tot Ion: 98 Resp: 659316
Ion Ratio Lower Upper
98 100
100 65.9 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 5.373 ug/l
RT: 10.12 min Scan# 1394
Delta R.T. -0.11 min
Lab File: VD067603.D
Acq: 11 Nov 2020 15:36

Tgt Ion: 43 Resp: 6282
Ion Ratio Lower Upper
43 100
58 4.1 35.6 53.4#

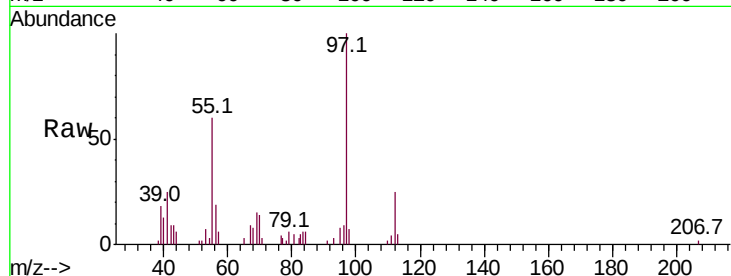




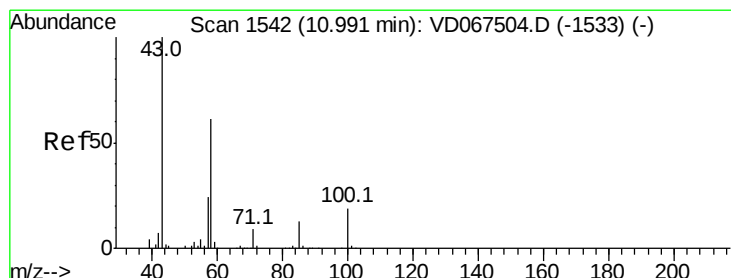
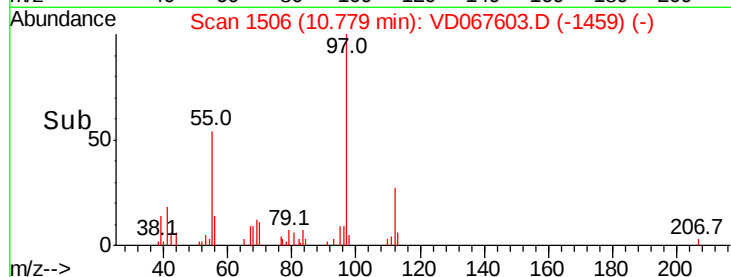
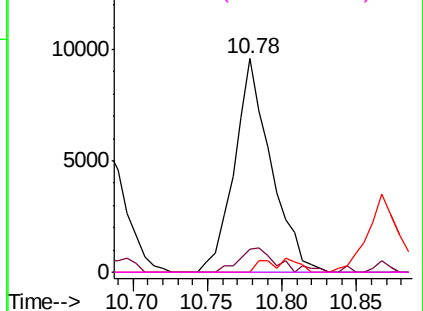
#55
 1,1,2-Trichloroethane
 Concen: 6.974 ug/l
 RT: 10.78 min Scan# 1506
 Delta R.T. -0.02 min
 Lab File: VD067603.D
 Acq: 11 Nov 2020 15:36

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

Tot Ion: 97 Resp: 16360
 Ion Ratio Lower Upper
 97 100
 83 10.9 61.0 91.6#
 85 0.0 41.5 62.3#
 99 0.0 49.4 74.2#

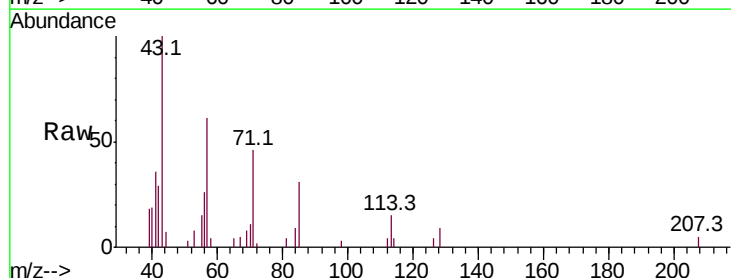


Abundance Ion 96.90 (96.60 to 97.60): VDC
 Ion 82.90 (82.60 to 83.60): VDC
 Ion 84.90 (84.60 to 85.60): VDC
 Ion 98.90 (98.60 to 99.60): VDC

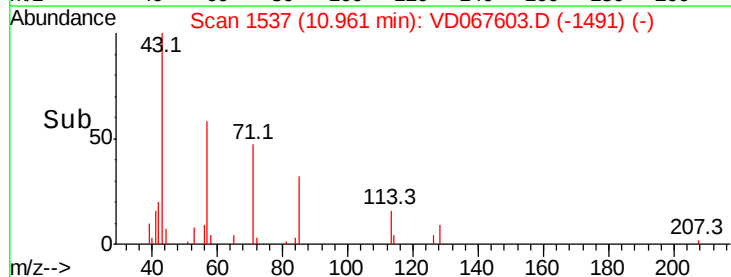
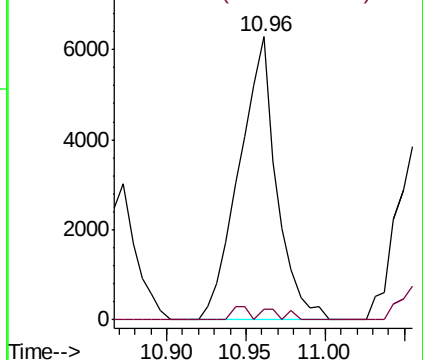


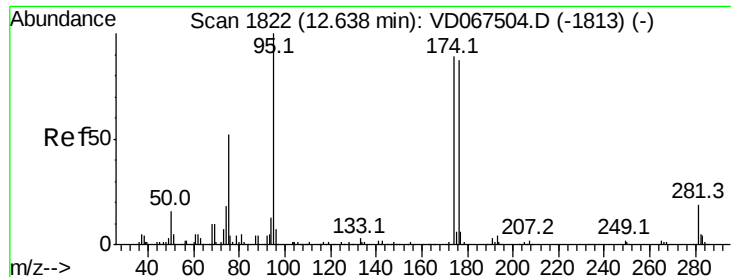
#59
 2-Hexanone
 Concen: 12.575 ug/l
 RT: 10.96 min Scan# 1537
 Delta R.T. -0.03 min
 Lab File: VD067603.D
 Acq: 11 Nov 2020 15:36

Tgt Ion: 43 Resp: 10280
 Ion Ratio Lower Upper
 43 100
 58 2.3 30.3 90.9#



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

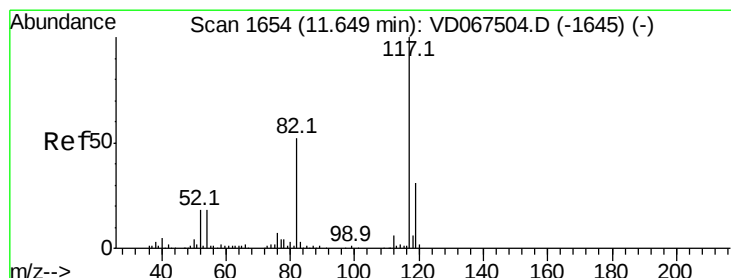
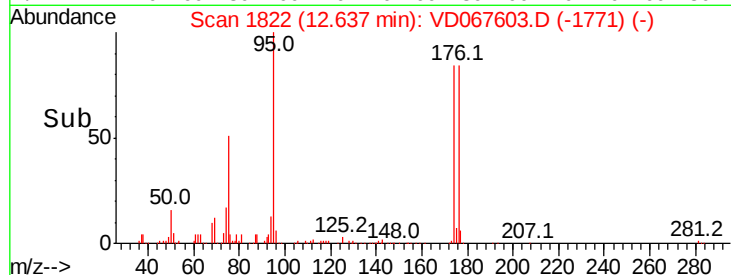
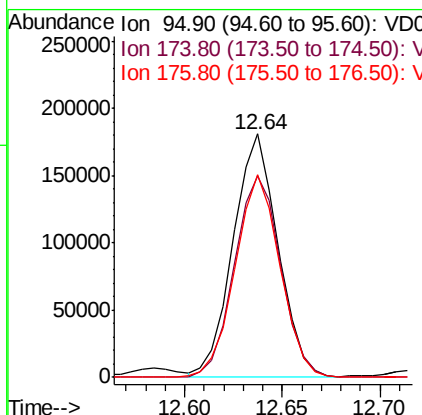
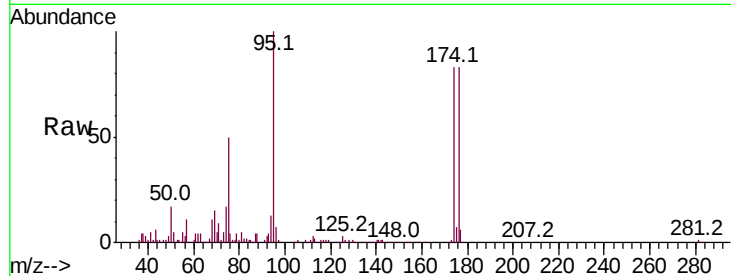




#62
4-Bromofluorobenzene
Concen: 70.160 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD067603.D
Acq: 11 Nov 2020 15:36

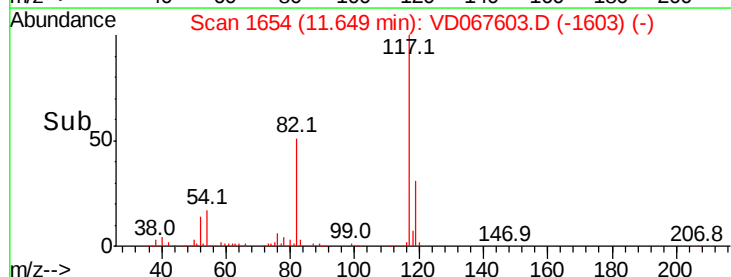
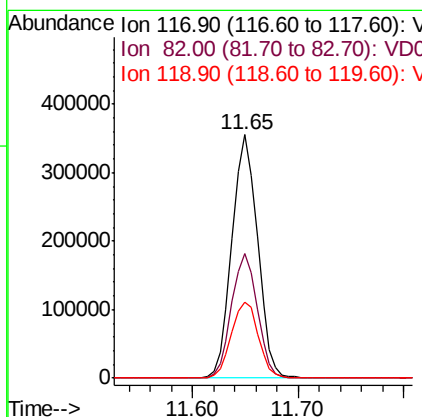
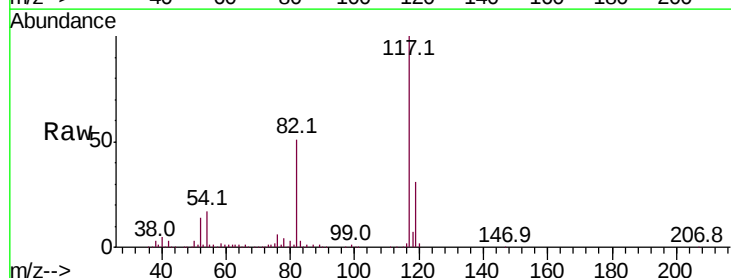
Instrument :
MSVOA_D
ClientSampleId :
M-5(10-20)RE

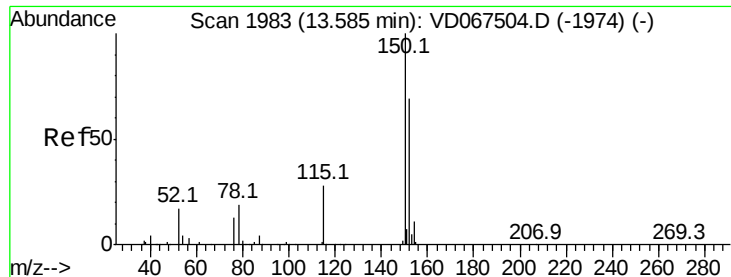
Tot Ion: 95 Resp: 285271
Ion Ratio Lower Upper
95 100
174 86.3 0.0 177.8
176 84.2 0.0 172.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD067603.D
Acq: 11 Nov 2020 15:36

Tgt Ion: 117 Resp: 596298
Ion Ratio Lower Upper
117 100
82 51.1 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: VD067603.D

Acq: 11 Nov 2020 15:36

Instrument :

MSVOA_D

ClientSampleId :

M-5(10-20)RE

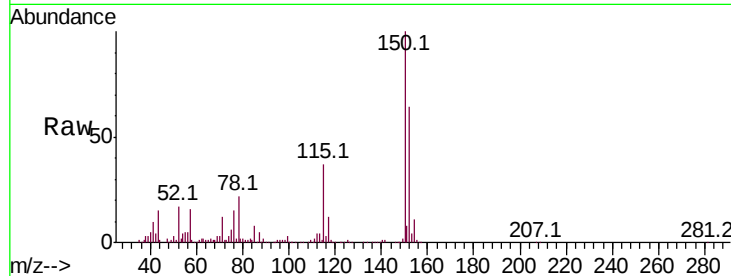
Tot Ion:152 Resp: 311201

Ion Ratio Lower Upper

152 100

115 59.0 29.3 88.0

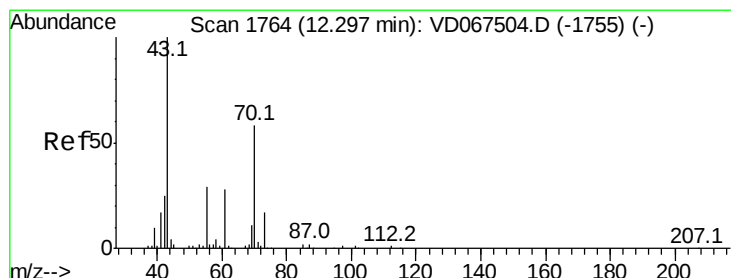
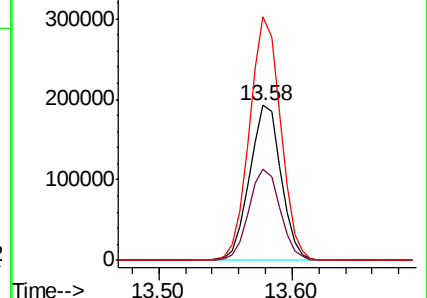
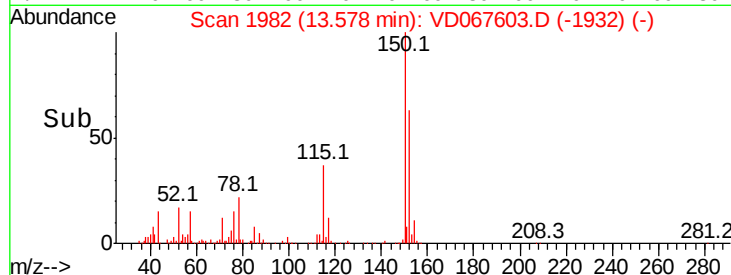
150 155.2 0.0 338.2



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



#74

N-ethyl acetate

Concen: 22.665 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD067603.D

Acq: 11 Nov 2020 15:36

Tgt Ion: 43 Resp: 59983

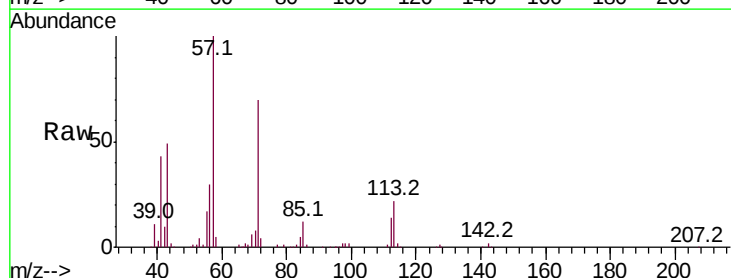
Ion Ratio Lower Upper

43 100

70 25.4 42.6 64.0#

55 34.9 23.7 35.5

61 0.0 21.9 32.9#

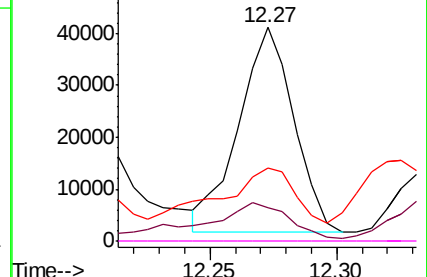
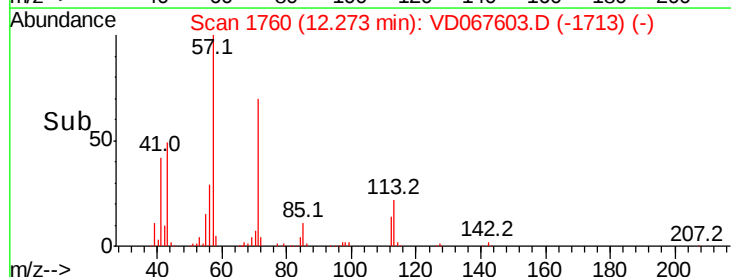


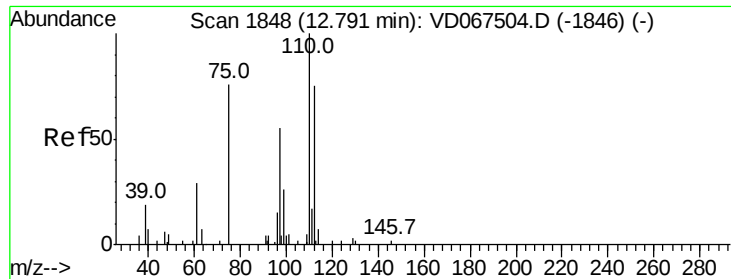
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 76.241 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067603.D

Acq: 11 Nov 2020 15:36

Instrument :

MSVOA_D

ClientSampleId :

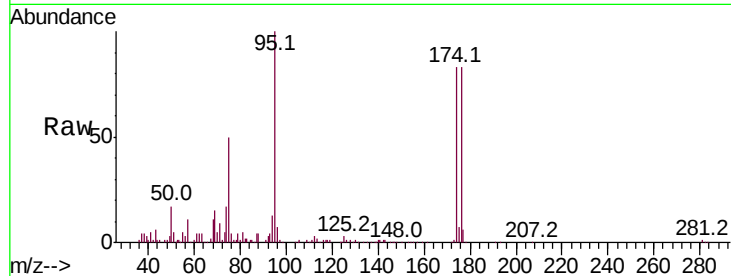
M-5(10-20)RE

Tot Ion: 75 Resp: 143130

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

100000

80000

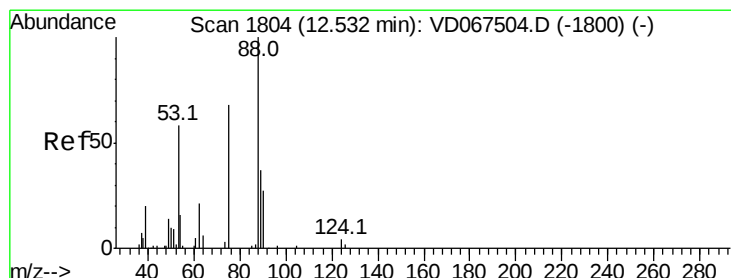
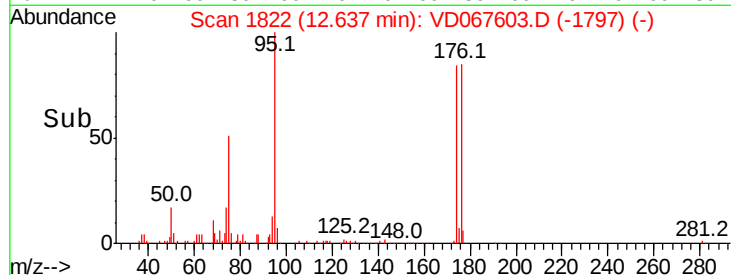
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 154.789 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067603.D

Acq: 11 Nov 2020 15:36

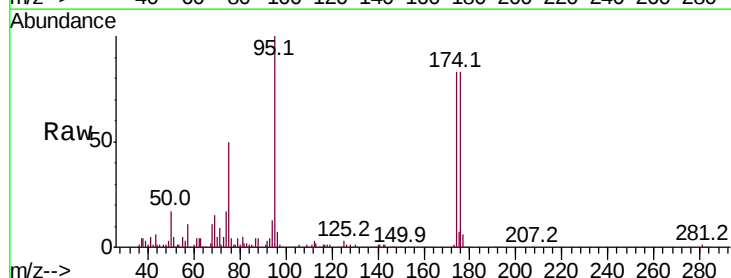
Tgt Ion: 75 Resp: 143130

Ion Ratio Lower Upper

75 100

53 1.1 75.9 113.9#

89 0.0 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

12.64

120000

100000

80000

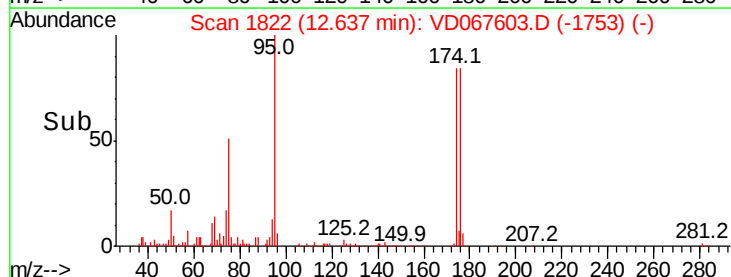
60000

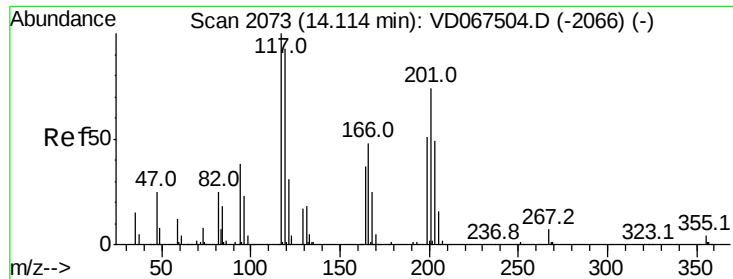
40000

20000

0

Time-->





#90

Hexachloroethane

Concen: 1.343 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. 0.01 min

Lab File: VD067603.D

Acq: 11 Nov 2020 15:36

Instrument :

MSVOA_D

ClientSampleId :

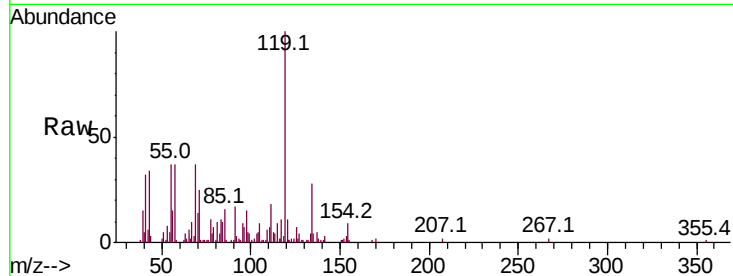
M-5(10-20)RE

Tot Ion:117 Resp: 4800

Ion Ratio Lower Upper

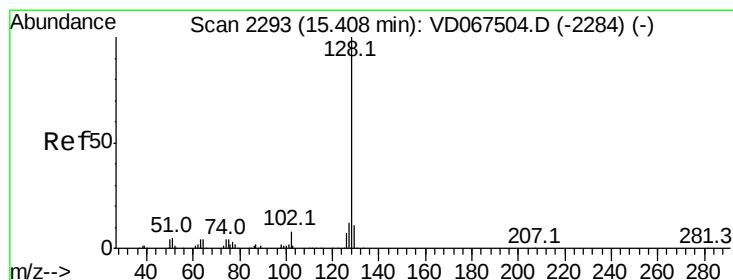
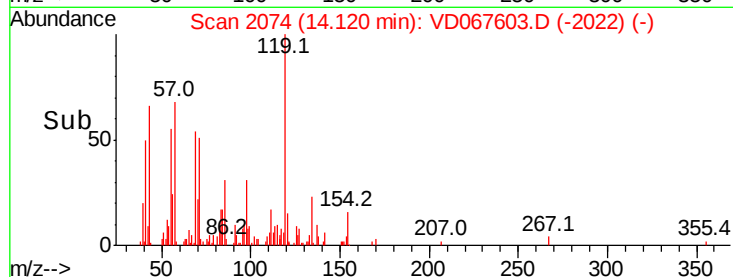
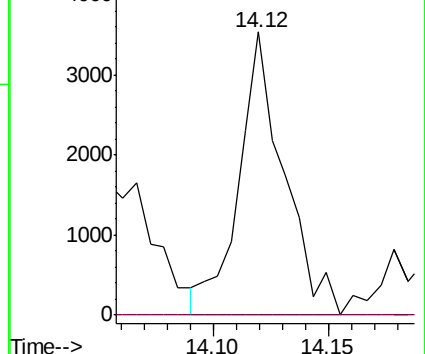
117 100

201 0.0 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: 6.517 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD067603.D

Acq: 11 Nov 2020 15:36

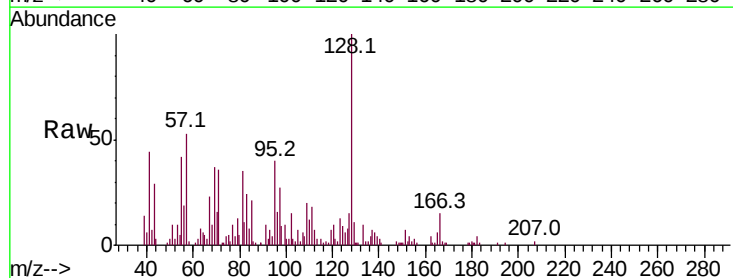
Tgt Ion:128 Resp: 55682

Ion Ratio Lower Upper

128 100

127 12.0 10.2 15.4

129 10.5 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

