

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102020\
 Data File : VD067332.D
 Acq On : 20 Oct 2020 18:57
 Operator : VA/SY
 Sample : L4475-01
 Misc : 7.62G/5.00ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 C-1-0.5-1.0

Quant Time: Oct 21 01:51:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	290024	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	495997	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	488586	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	238044	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	156279	53.79	ug/l	0.00
Spiked Amount			Recovery	=	107.58%	
35) Dibromofluoromethane	7.91	113	165429	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
50) Toluene-d8	10.34	98	591449	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
62) 4-Bromofluorobenzene	12.64	95	206580	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	

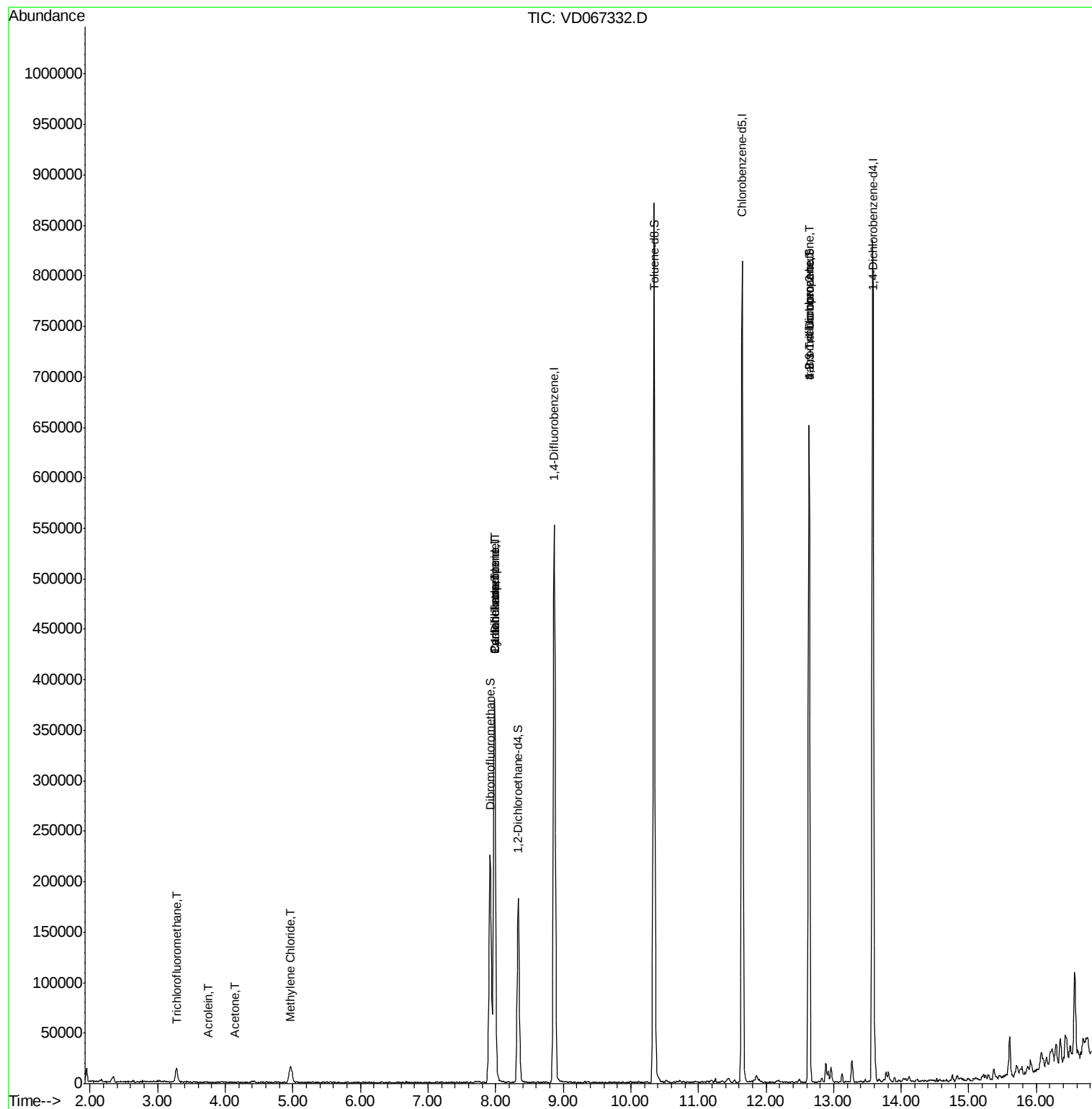
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	54	Below Cal	#	44
5) Bromomethane	2.77	94	120	Below Cal	#	54
7) Trichlorofluoromethane	3.28	101	14492	2.874	ug/l	93
11) Tert butyl alcohol	5.03	59	54	Below Cal	#	81
13) Acrolein	3.74	56	61	21.985	ug/l	# 15
16) Acetone	4.16	43	409	1.005	ug/l	# 42
20) Methylene Chloride	4.97	84	14320	1.104	ug/l	# 98
31) Cyclohexane	7.99	56	6428	1.921	ug/l	# 21
36) 1,1-Dichloropropene	7.99	75	19788	4.707	ug/l	# 51
38) Carbon Tetrachloride	7.99	117	29548	5.499	ug/l	# 16
76) 1,2,3-Trichloropropane	12.64	75	107314	65.044	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.64	75	107314	147.500	ug/l	# 10

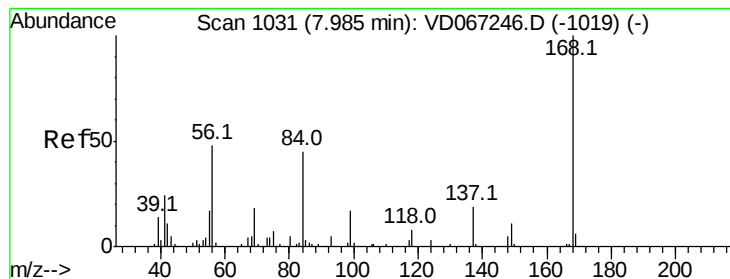
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067332.D

Acq: 20 Oct 2020 18:57

Instrument :

MSVOA_D

ClientSampleId :

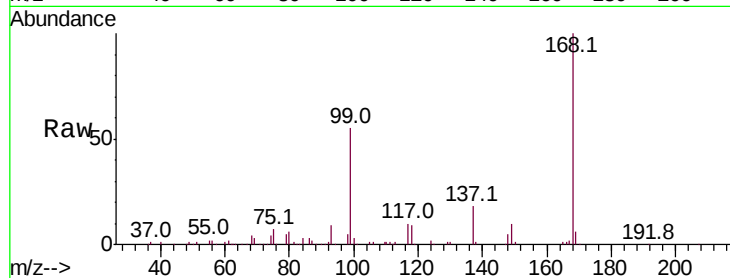
C-1-0.5-1.0

Tot Ion:168 Resp: 290024

Ion Ratio Lower Upper

168 100

99 54.9 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

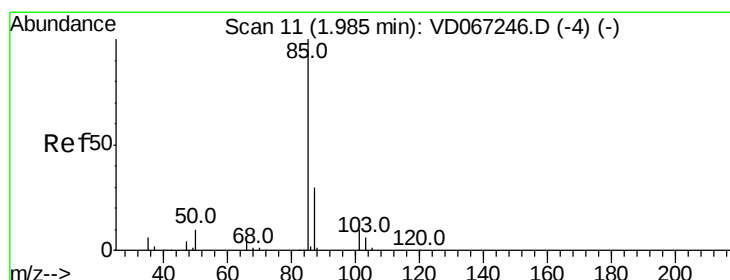
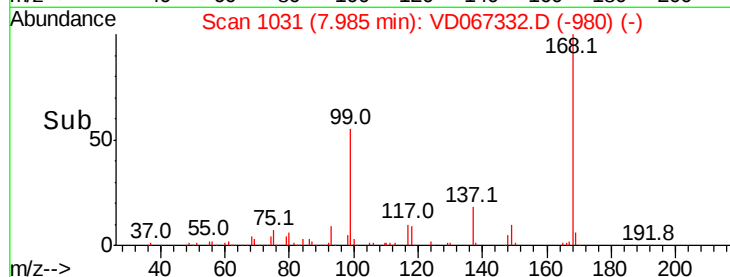
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 13

Delta R.T. 0.01 min

Lab File: VD067332.D

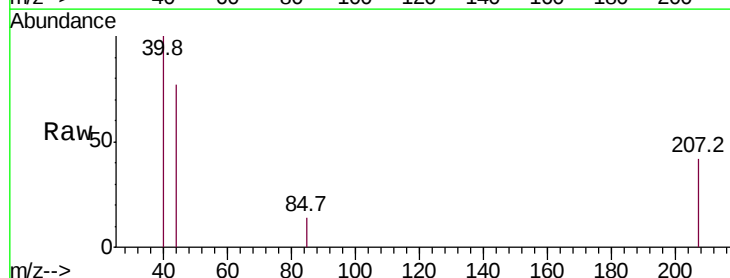
Acq: 20 Oct 2020 18:57

Tgt Ion: 85 Resp: 54

Ion Ratio Lower Upper

85 100

87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

2.00

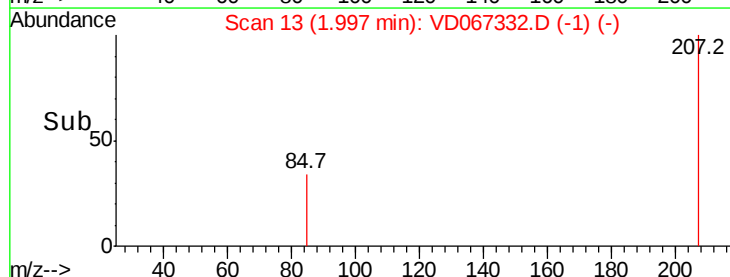
150

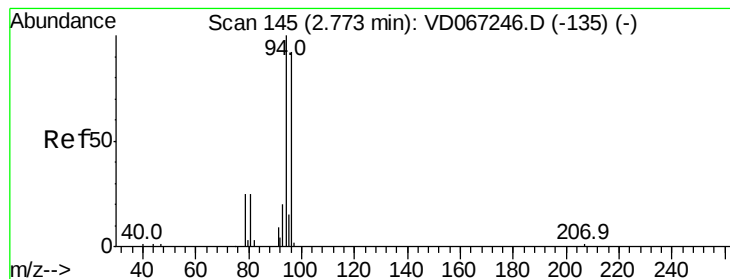
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067332.D

Acq: 20 Oct 2020 18:57

Instrument :

MSVOA_D

ClientSampleId :

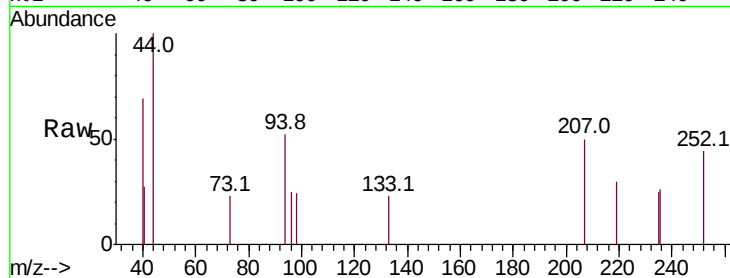
C-1-0.5-1.0

Tot Ion: 94 Resp: 120

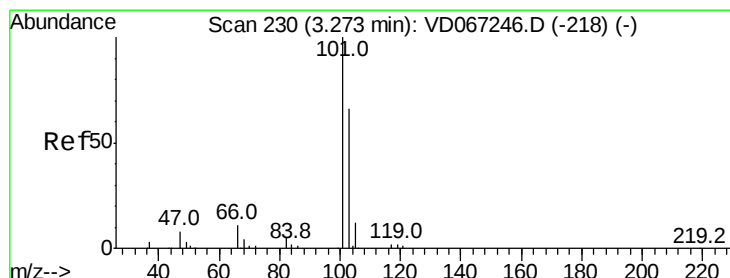
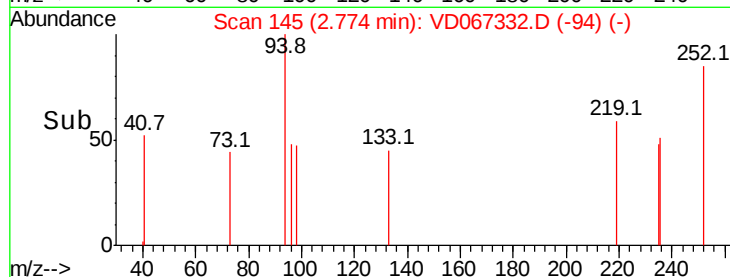
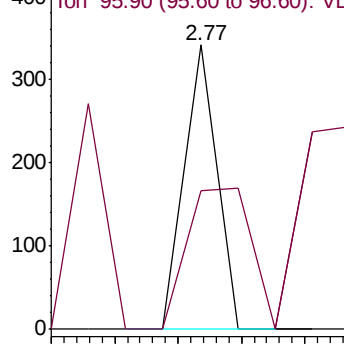
Ion Ratio Lower Upper

94 100

96 48.4 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC



#7

Trichlorofluoromethane

Concen: 2.874 ug/l

RT: 3.28 min Scan# 231

Delta R.T. 0.01 min

Lab File: VD067332.D

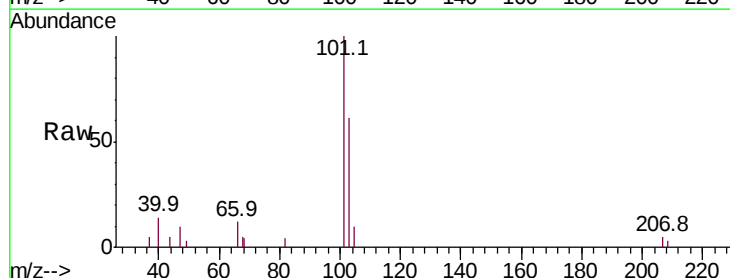
Acq: 20 Oct 2020 18:57

Tgt Ion:101 Resp: 14492

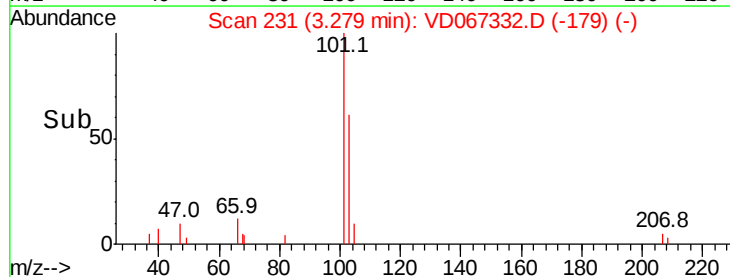
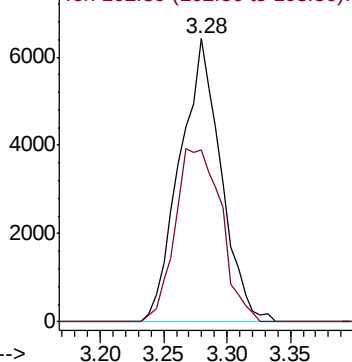
Ion Ratio Lower Upper

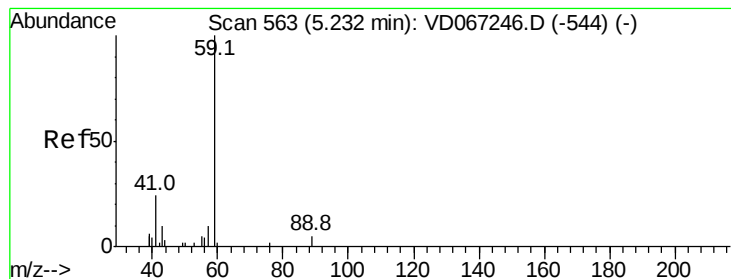
101 100

103 60.6 53.1 79.7



Abundance Ion 100.90 (100.60 to 101.60): V



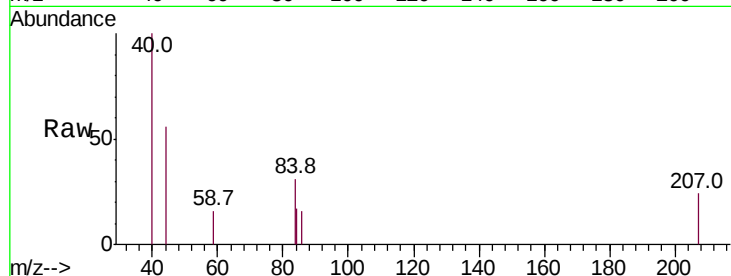


#11

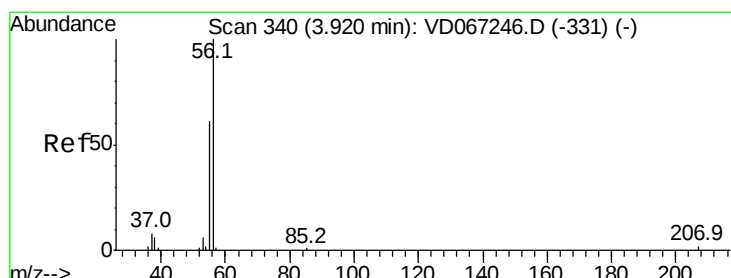
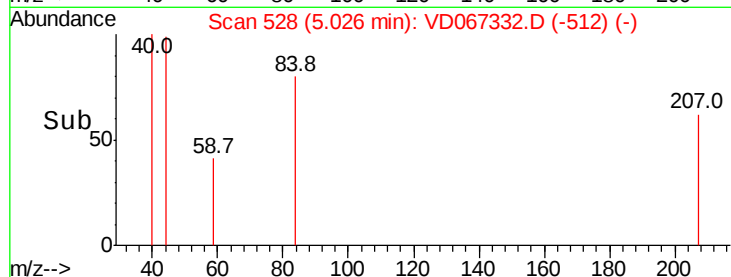
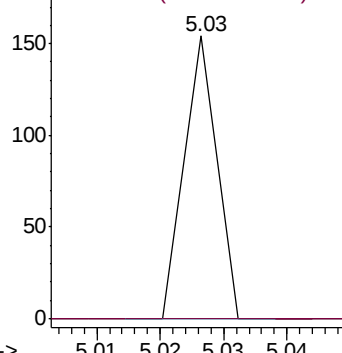
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.03 min Scan# 528
 Delta R.T. -0.20 min
 Lab File: VD067332.D
 Acq: 20 Oct 2020 18:57

Instrument :
 MSVOA_D
 ClientSampleId :
 C-1-0.5-1.0

Tot Ion: 59 Resp: 54
 Ion Ratio Lower Upper
 59 100
 57 0.0 5.1 7.7#



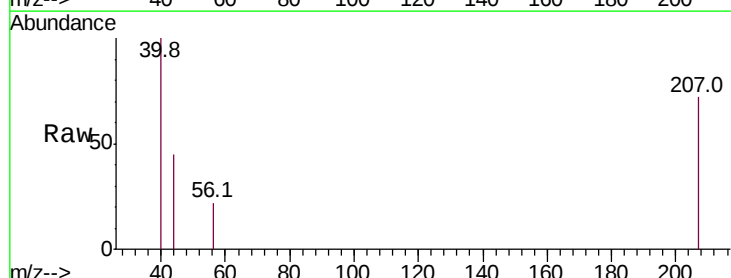
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



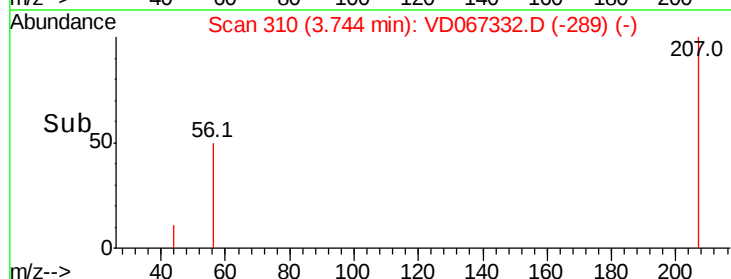
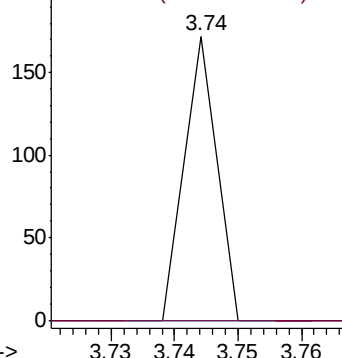
#13

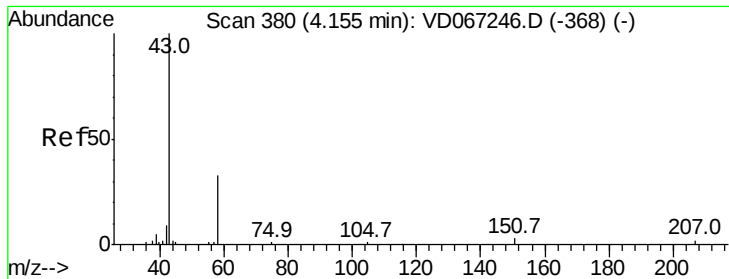
Acrolein
 Concen: 21.985 ug/l
 RT: 3.74 min Scan# 310
 Delta R.T. -0.18 min
 Lab File: VD067332.D
 Acq: 20 Oct 2020 18:57

Tgt Ion: 56 Resp: 61
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.0 84.0#



Abundance Ion 56.00 (55.70 to 56.70): VDC
 Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 1.005 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD067332.D

Acq: 20 Oct 2020 18:57

Instrument :

MSVOA_D

ClientSampleId :

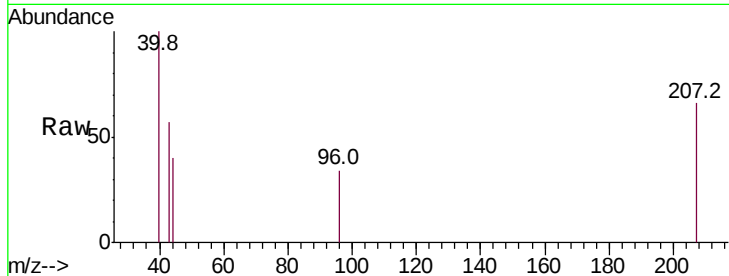
C-1-0.5-1.0

Tot Ion: 43 Resp: 409

Ion Ratio Lower Upper

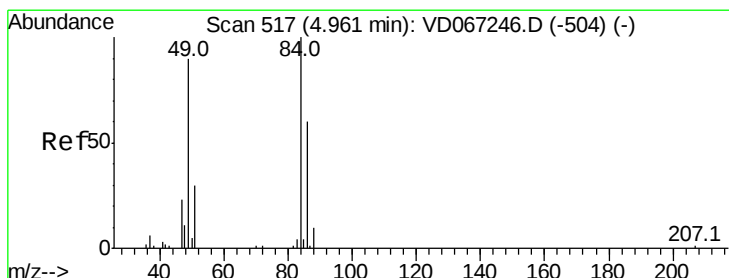
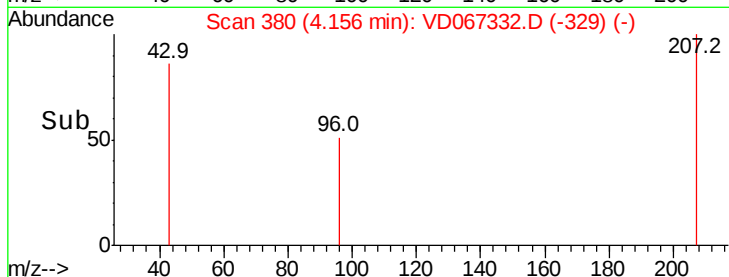
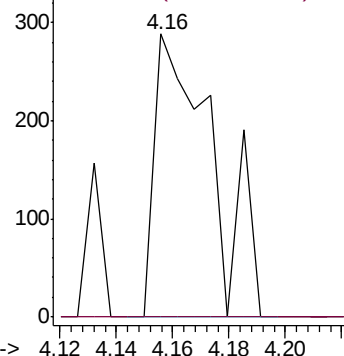
43 100

58 0.0 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 1.104 ug/l

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067332.D

Acq: 20 Oct 2020 18:57

Tgt Ion: 84 Resp: 14320

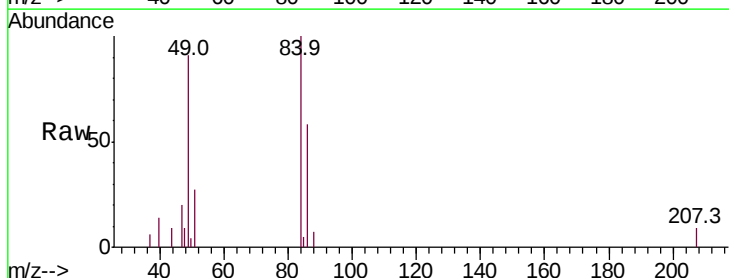
Ion Ratio Lower Upper

84 100

49 90.6 72.2 108.2

51 27.5 23.8 35.8

86 58.3 48.2 72.4

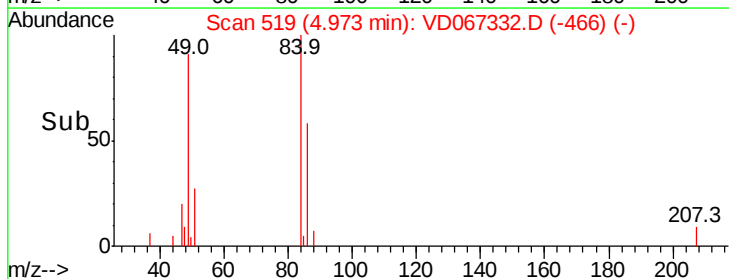
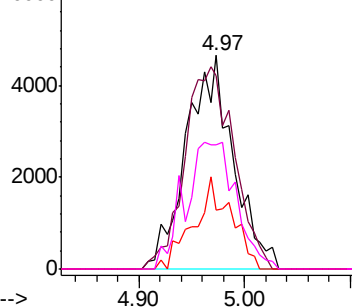


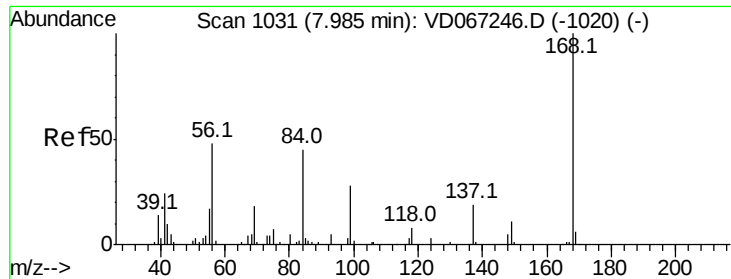
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

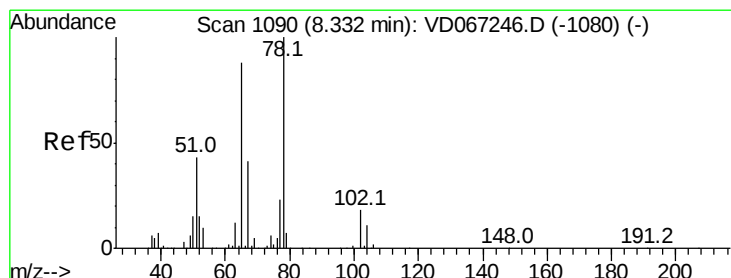
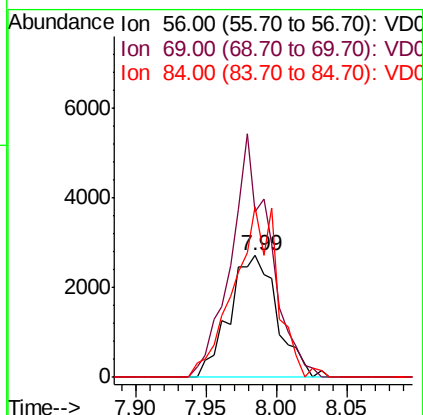
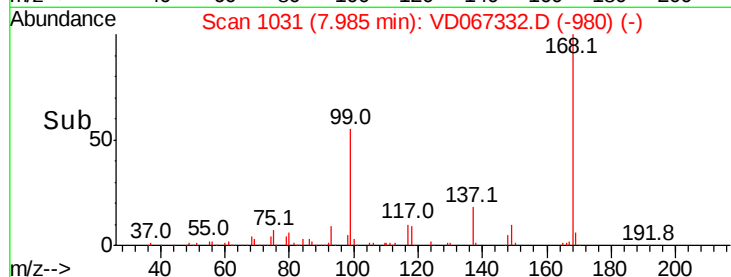
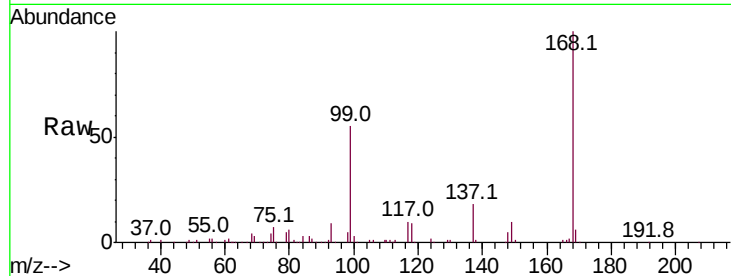




#31
Cyclohexane
Concen: 1.921 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD067332.D
Acq: 20 Oct 2020 18:57

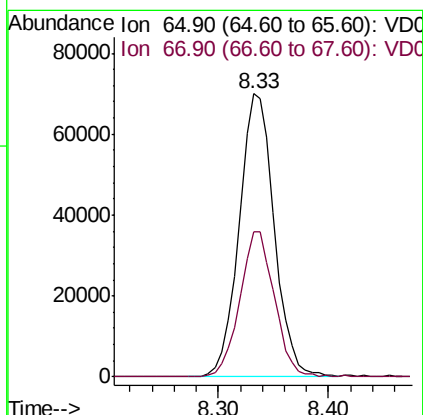
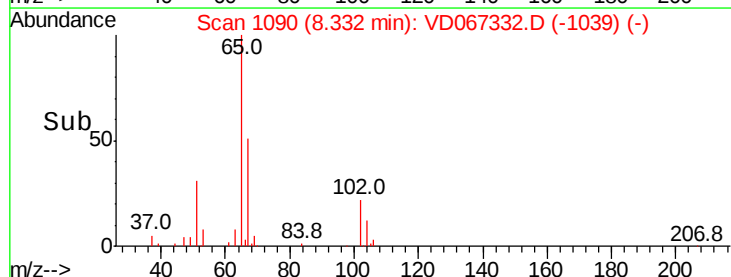
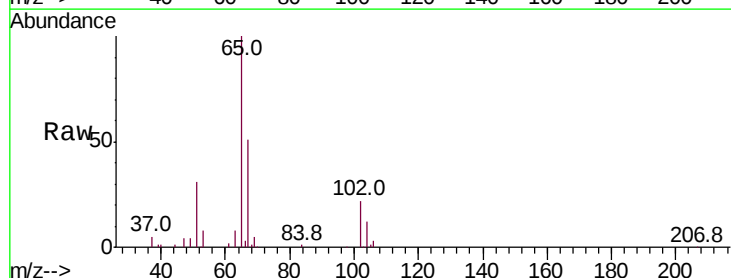
Instrument :
MSVOA_D
ClientSampled :
C-1-0.5-1.0

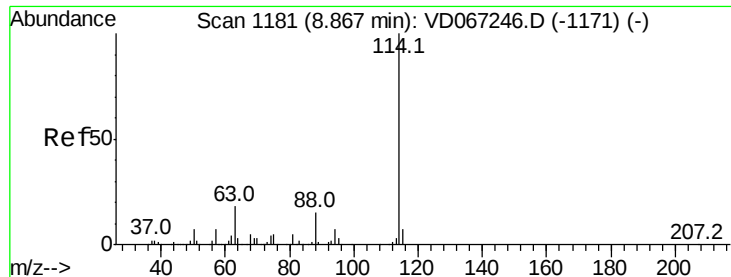
Tot Ion: 56 Resp: 6428
Ion Ratio Lower Upper
56 100
69 135.7 29.8 44.6#
84 140.1 76.6 114.8#



#33
1,2-Dichloroethane-d4
Concen: 53.785 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD067332.D
Acq: 20 Oct 2020 18:57

Tgt Ion: 65 Resp: 156279
Ion Ratio Lower Upper
65 100
67 50.9 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067332.D

Acq: 20 Oct 2020 18:57

Instrument :

MSVOA_D

ClientSampleId :

C-1-0.5-1.0

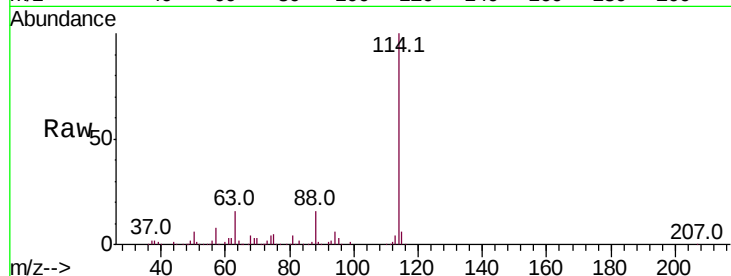
Tot Ion:114 Resp: 495997

Ion Ratio Lower Upper

114 100

63 16.4 0.0 35.0

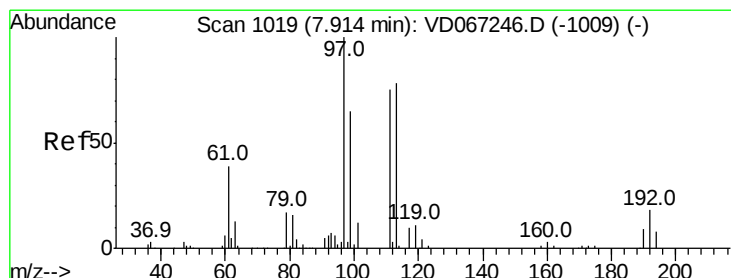
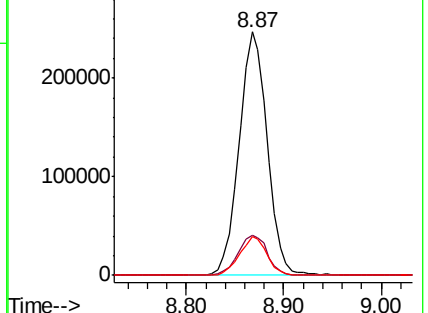
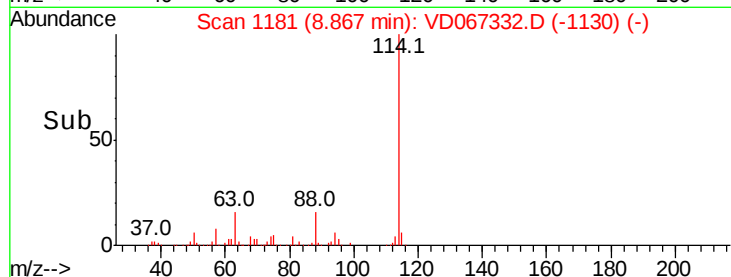
88 15.8 0.0 30.6



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: 50.117 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067332.D

Acq: 20 Oct 2020 18:57

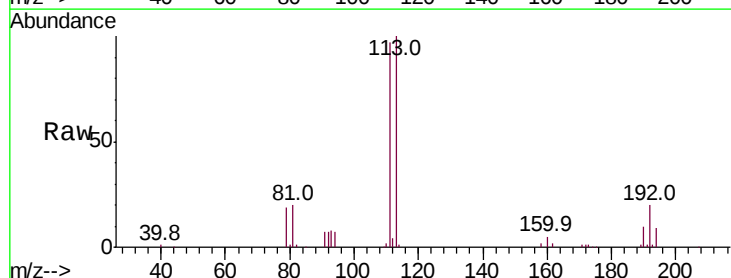
Tgt Ion:113 Resp: 165429

Ion Ratio Lower Upper

113 100

111 100.2 81.6 122.4

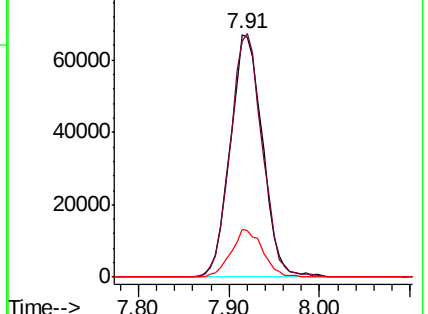
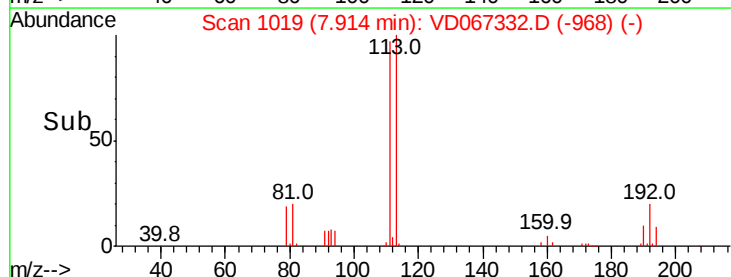
192 19.3 17.0 25.4

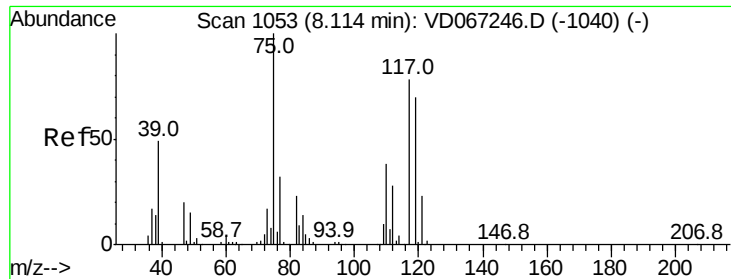


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

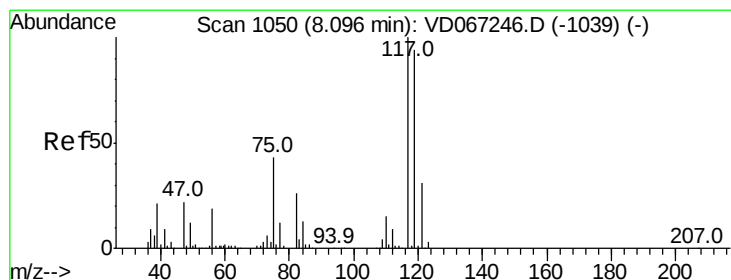
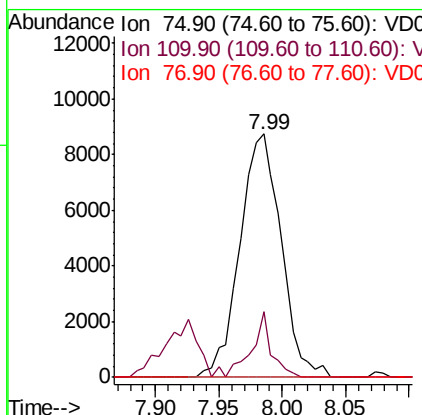
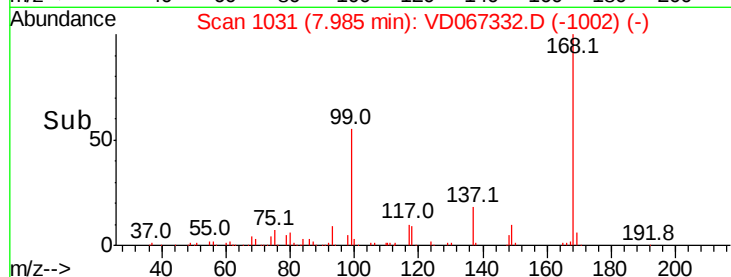
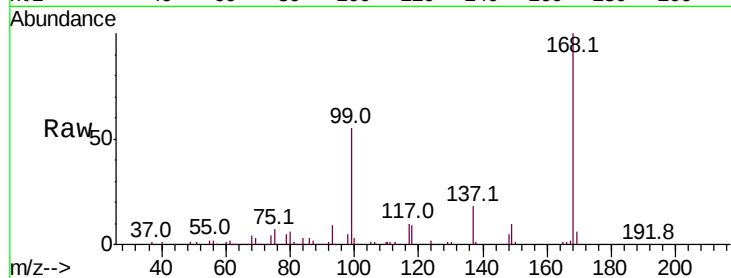




#36
 1,1-Dichloropropene
 Concen: 4.707 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD067332.D
 Acq: 20 Oct 2020 18:57

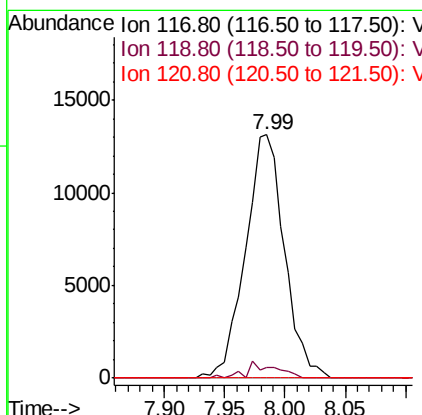
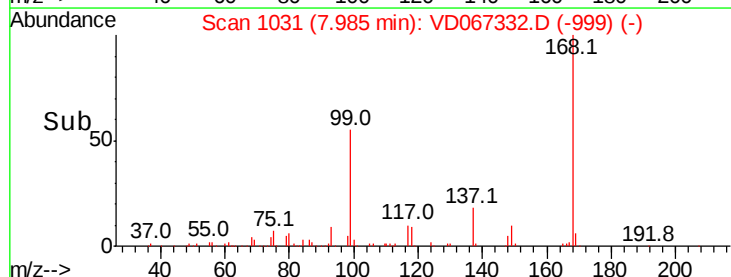
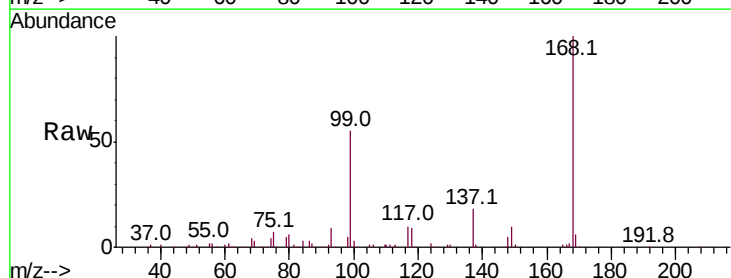
Instrument :
 MSVOA_D
 ClientSampleId :
 C-1-0.5-1.0

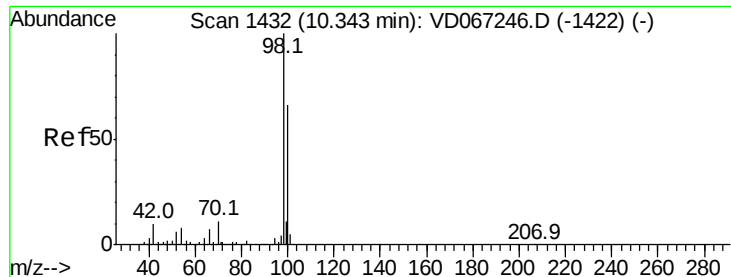
Tot Ion: 75 Resp: 19788
 Ion Ratio Lower Upper
 75 100
 110 13.0 19.6 58.7#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.499 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.11 min
 Lab File: VD067332.D
 Acq: 20 Oct 2020 18:57

Tgt Ion: 117 Resp: 29548
 Ion Ratio Lower Upper
 117 100
 119 4.5 75.0 112.4#
 121 0.0 24.9 37.3#





#50

Toluene-d8

Concen: 49.512 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067332.D

Acq: 20 Oct 2020 18:57

Instrument :

MSVOA_D

ClientSampleId :

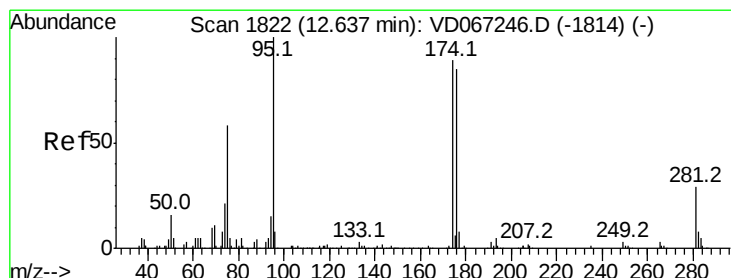
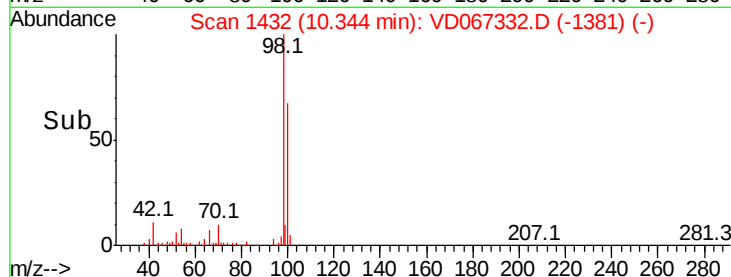
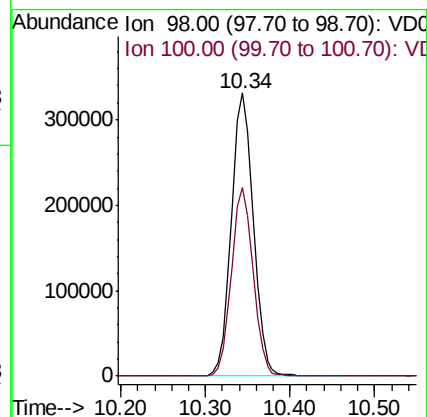
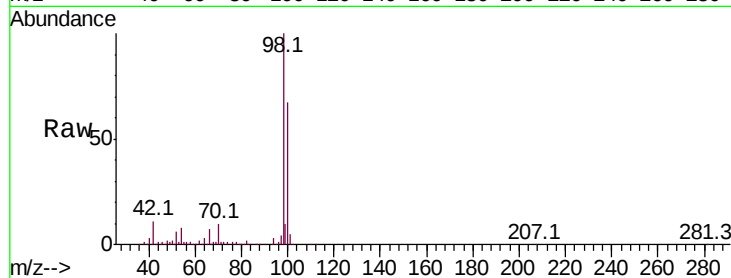
C-1-0.5-1.0

Tot Ion: 98 Resp: 591449

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 49.734 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067332.D

Acq: 20 Oct 2020 18:57

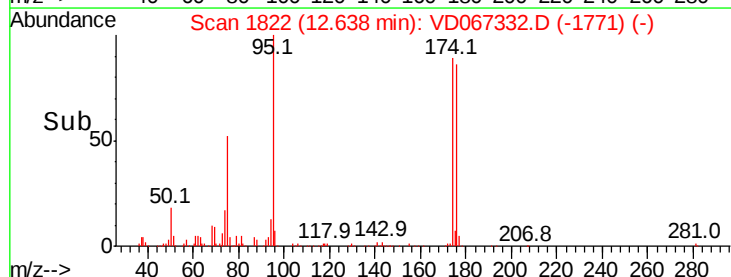
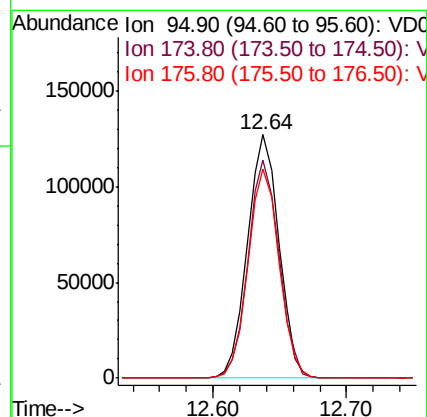
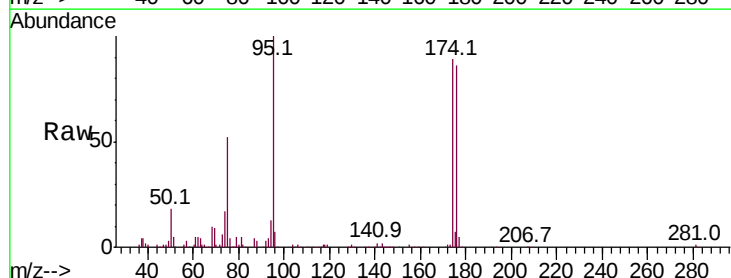
Tgt Ion: 95 Resp: 206580

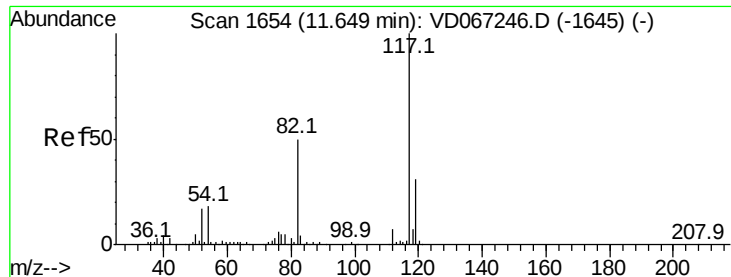
Ion Ratio Lower Upper

95 100

174 87.7 0.0 175.2

176 84.7 0.0 168.6

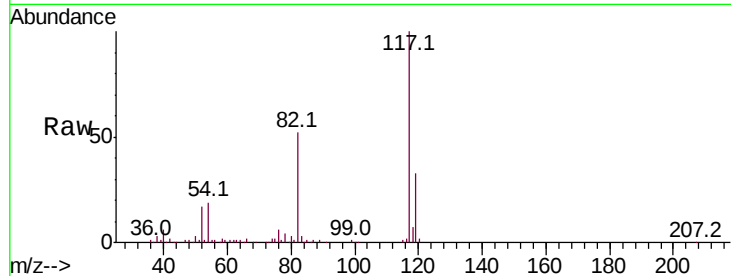




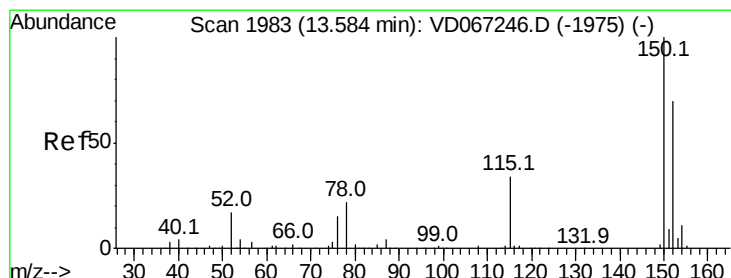
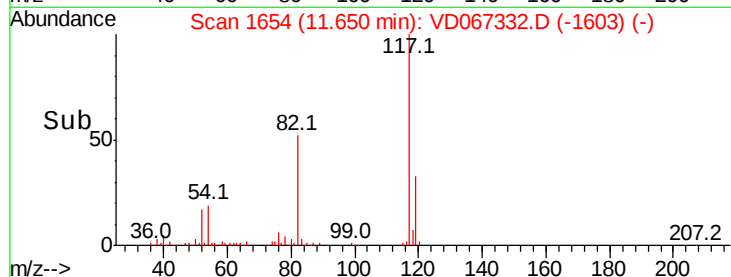
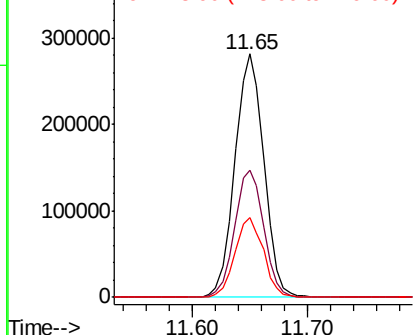
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067332.D
Acq: 20 Oct 2020 18:57

Instrument :
MSVOA_D
ClientSampleId :
C-1-0.5-1.0

Tot Ion:117 Resp: 488586
Ion Ratio Lower Upper
117 100
82 52.1 39.9 59.9
119 32.7 24.9 37.3

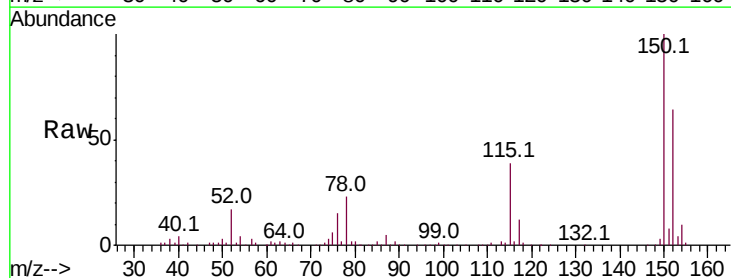


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

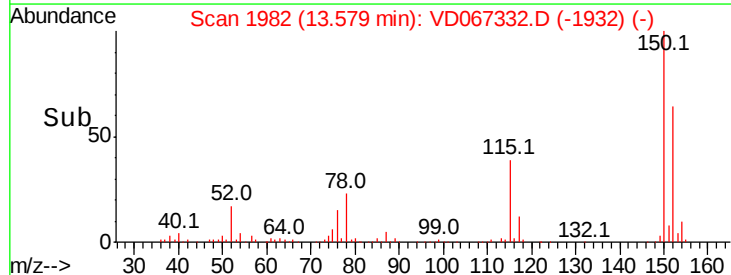
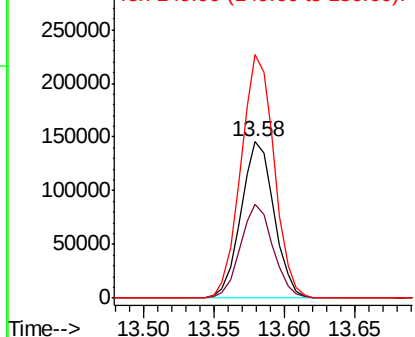


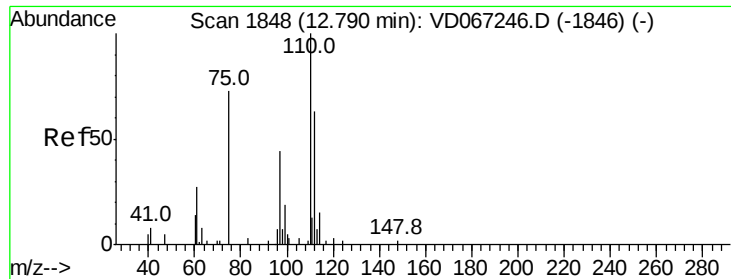
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067332.D
Acq: 20 Oct 2020 18:57

Tgt Ion:152 Resp: 238044
Ion Ratio Lower Upper
152 100
115 59.5 29.3 87.9
150 157.4 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: 65.044 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067332.D

Acq: 20 Oct 2020 18:57

Instrument :

MSVOA_D

ClientSampleId :

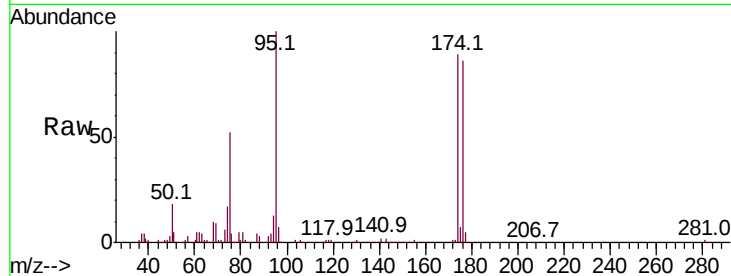
C-1-0.5-1.0

Tot Ion: 75 Resp: 107314

Ion Ratio Lower Upper

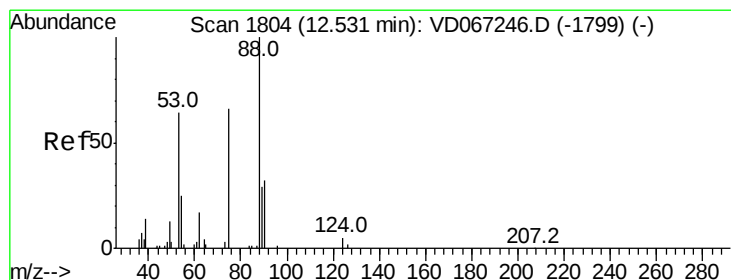
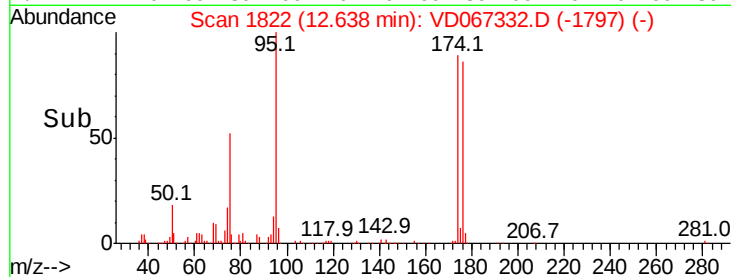
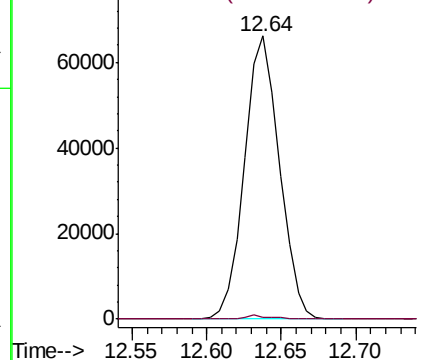
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 147.500 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067332.D

Acq: 20 Oct 2020 18:57

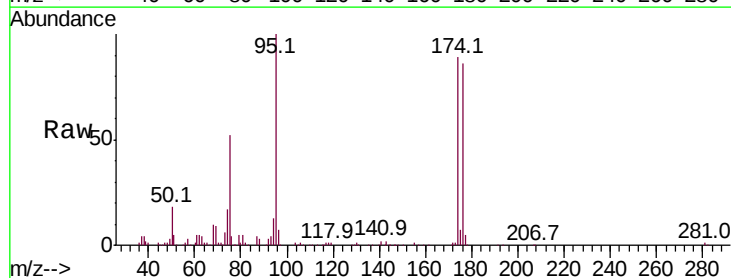
Tgt Ion: 75 Resp: 107314

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 39.9 59.9#



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

