

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102020\
 Data File : VD067325.D
 Acq On : 20 Oct 2020 15:45
 Operator : VA/SY
 Sample : L4436-03
 Misc : 9.98G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 33B

Quant Time: Oct 21 01:50:49 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

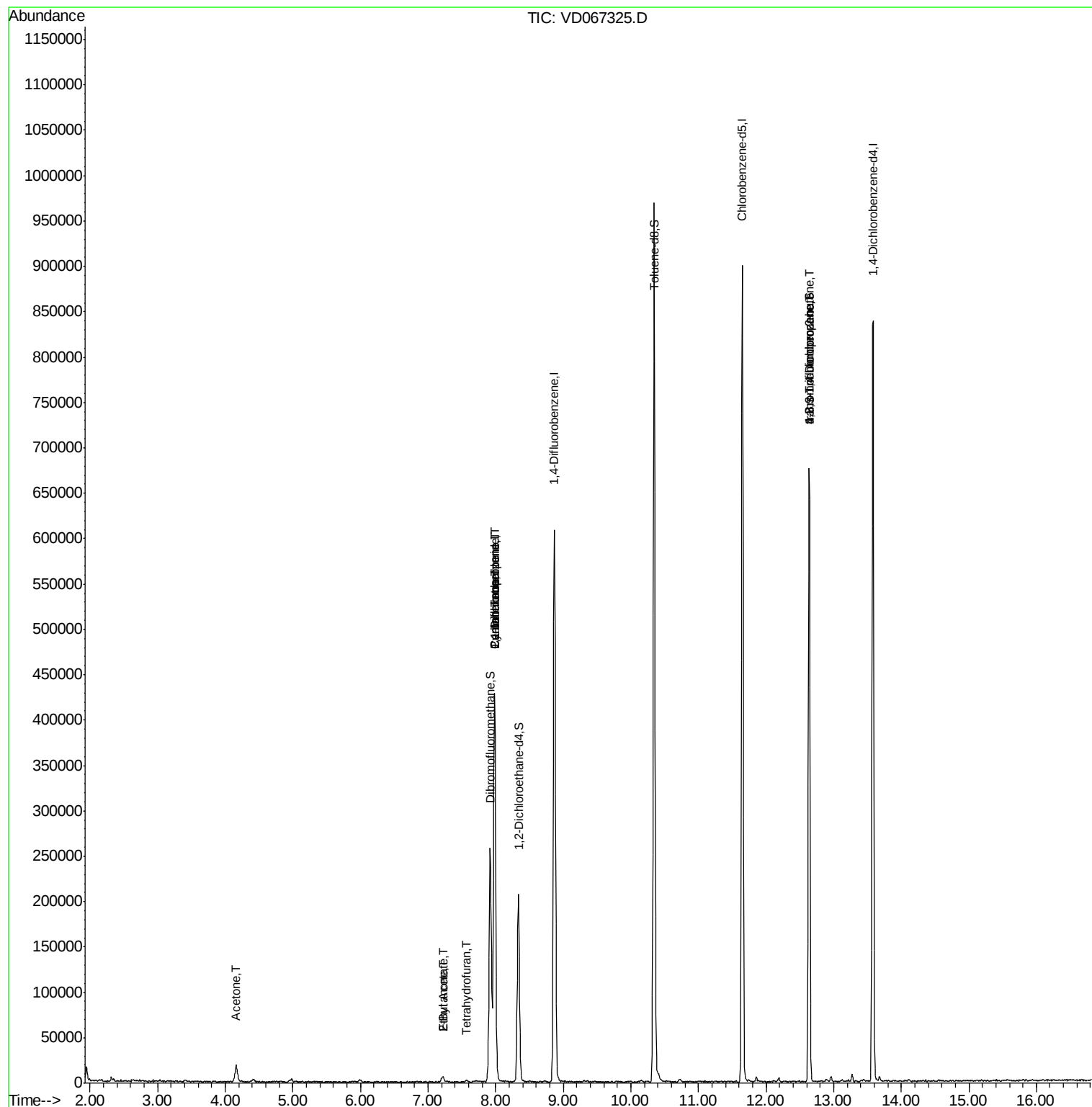
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	326793	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	559264	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	530479	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	244022	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	178491	54.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.04%	
35) Dibromofluoromethane	7.92	113	181399	48.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.48%	
50) Toluene-d8	10.34	98	652338	48.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.86%	
62) 4-Bromofluorobenzene	12.64	95	222321	47.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.94%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	139	Below Cal	#	44
5) Bromomethane	2.78	94	155	Below Cal	#	77
11) Tert butyl alcohol	5.23	59	70	Below Cal	#	81
16) Acetone	4.16	43	29690	64.752	ug/l	98
20) Methylene Chloride	4.97	84	1608	Below Cal	#	92
25) 2-Butanone	7.22	43	9222	17.644	ug/l	95
29) Tetrahydrofuran	7.56	42	1076	3.703	ug/l #	78
31) Cyclohexane	7.99	56	6697	1.776	ug/l #	5
36) 1,1-Dichloropropene	7.98	75	23237	4.902	ug/l #	49
37) Ethyl Acetate	7.22	43	9222	6.613	ug/l #	61
38) Carbon Tetrachloride	7.99	117	33066	5.458	ug/l #	18
76) 1,2,3-Trichloropropane	12.64	75	114292	67.576	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	114292	153.243	ug/l #	10

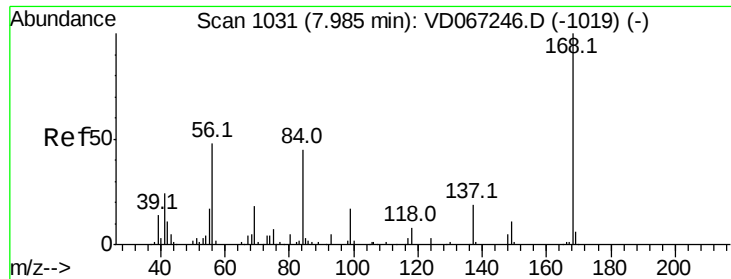
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102020\
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067325.D

Acq: 20 Oct 2020 15:45

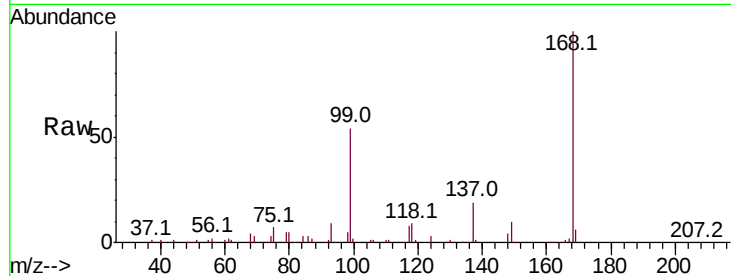
Instrument :
MSVOA_D
ClientSampleId :
33B

Tot Ion:168 Resp: 326793

Ion Ratio Lower Upper

168 100

99 54.3 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

100000

50000

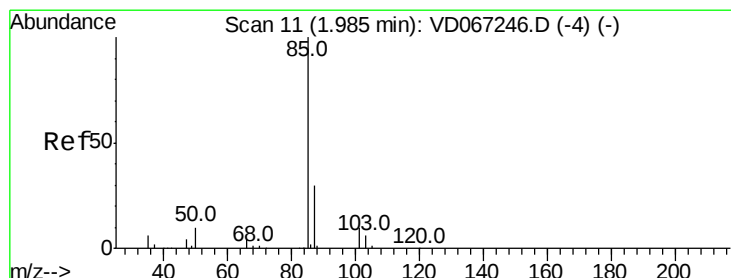
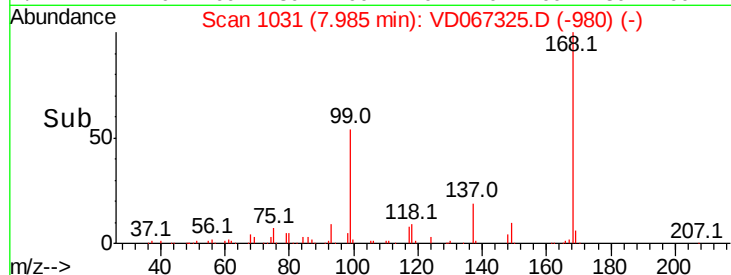
0

Time-->

7.90

8.00

8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067325.D

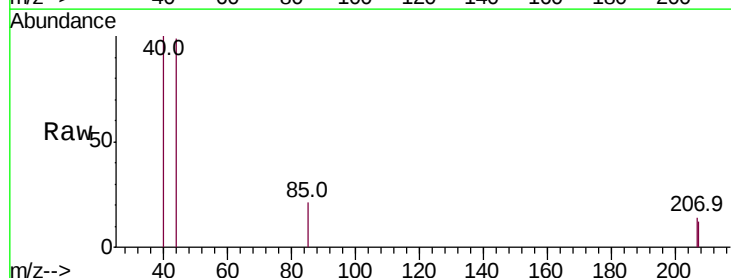
Acq: 20 Oct 2020 15:45

Tgt Ion: 85 Resp: 139

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

1.99

400

300

200

100

0

Time-->

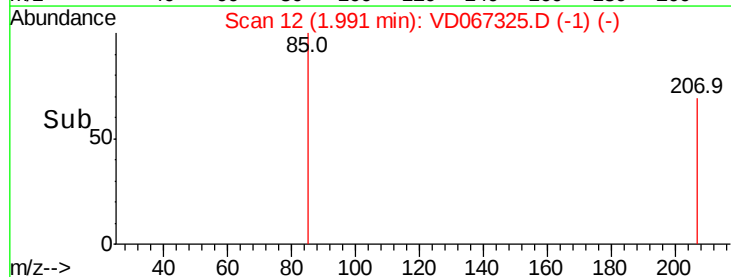
1.97

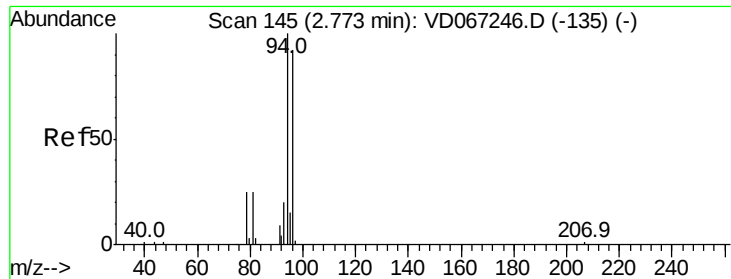
1.98

1.99

2.00

2.01





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067325.D

Acq: 20 Oct 2020 15:45

Instrument :

MSVOA_D

ClientSampleId :

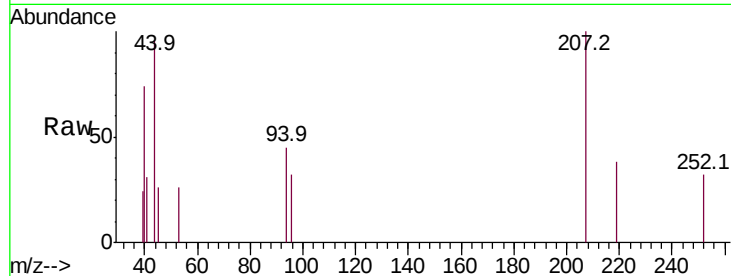
33B

Tot Ion: 94 Resp: 155

Ion Ratio Lower Upper

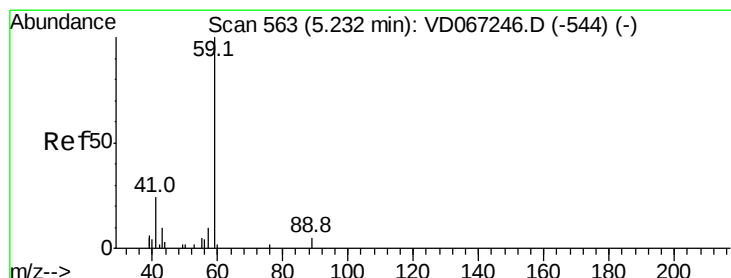
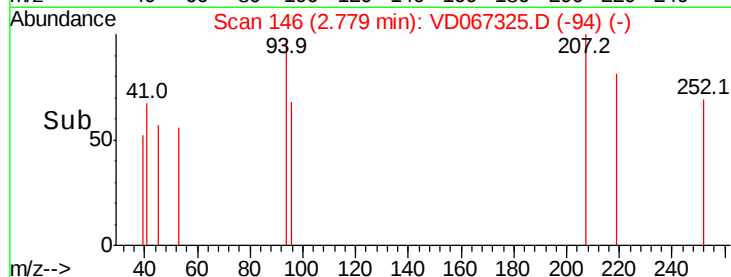
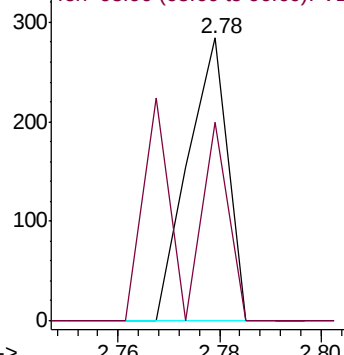
94 100

96 70.4 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 562

Delta R.T. -0.00 min

Lab File: VD067325.D

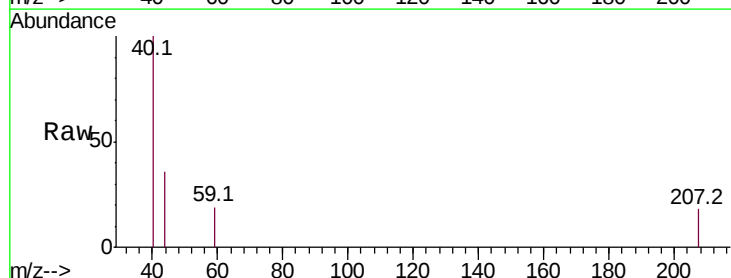
Acq: 20 Oct 2020 15:45

Tgt Ion: 59 Resp: 70

Ion Ratio Lower Upper

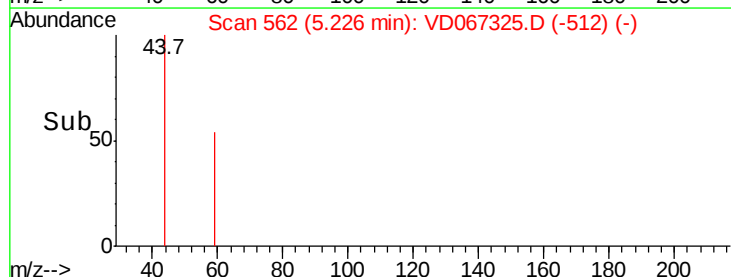
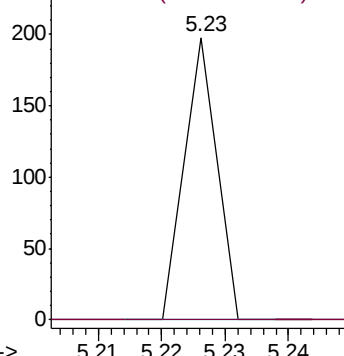
59 100

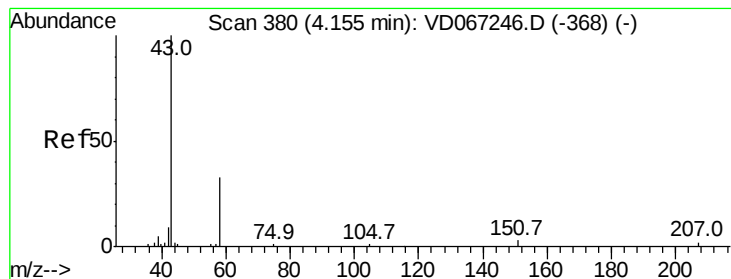
57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 64.752 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067325.D

Acq: 20 Oct 2020 15:45

Instrument :

MSVOA_D

ClientSampleId :

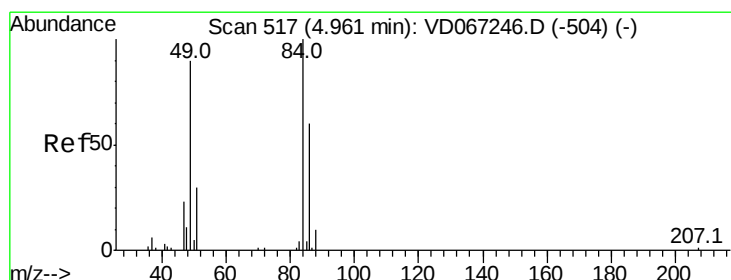
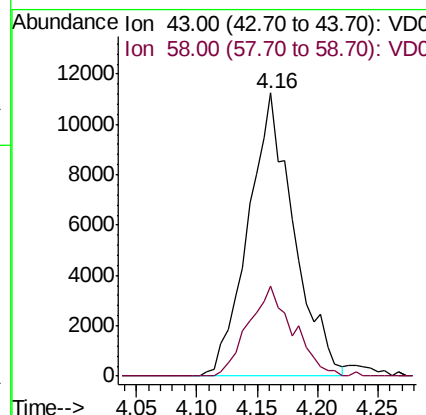
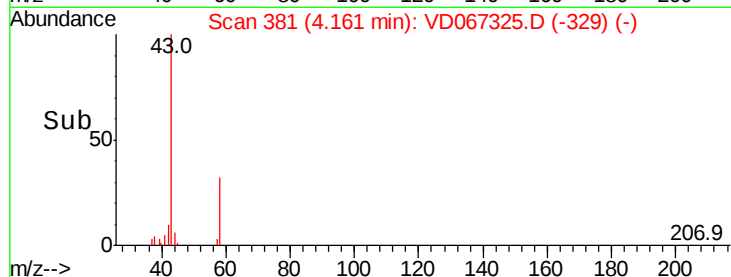
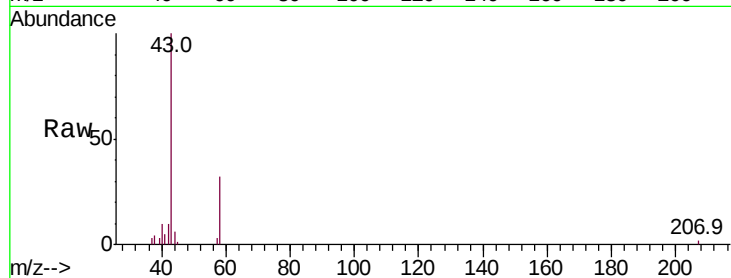
33B

Tot Ion: 43 Resp: 29690

Ion Ratio Lower Upper

43 100

58 31.7 26.1 39.1



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067325.D

Acq: 20 Oct 2020 15:45

Tgt Ion: 84 Resp: 1608

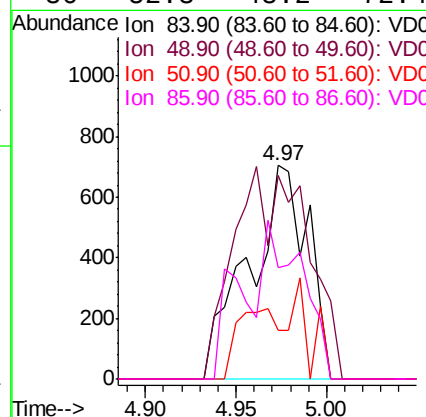
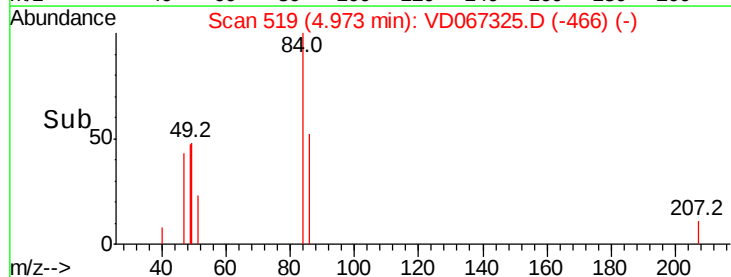
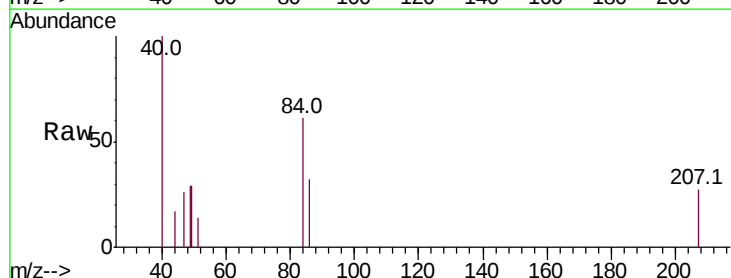
Ion Ratio Lower Upper

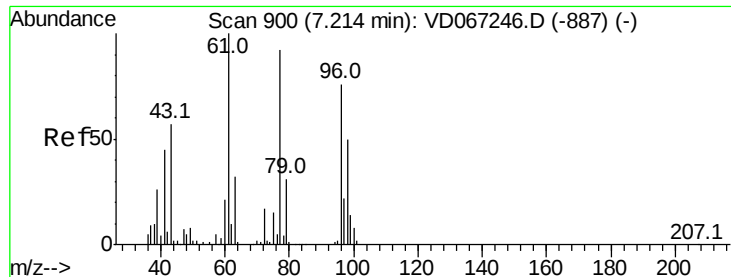
84 100

49 95.3 72.2 108.2

51 23.0 23.8 35.8#

86 52.3 48.2 72.4

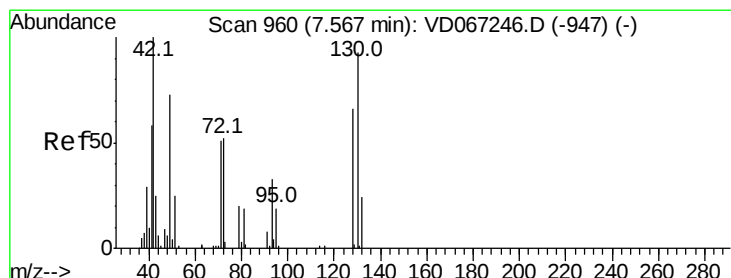
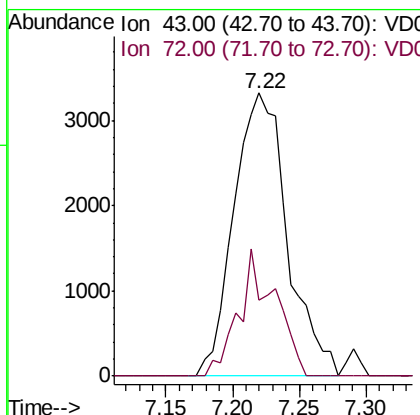
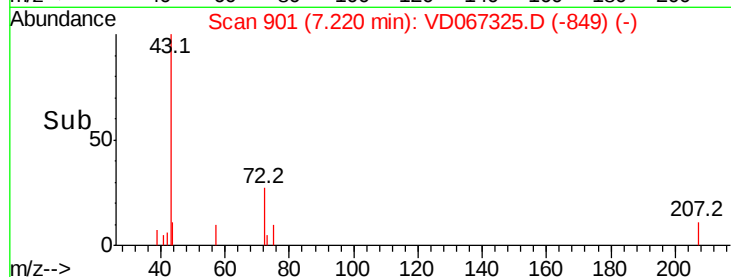
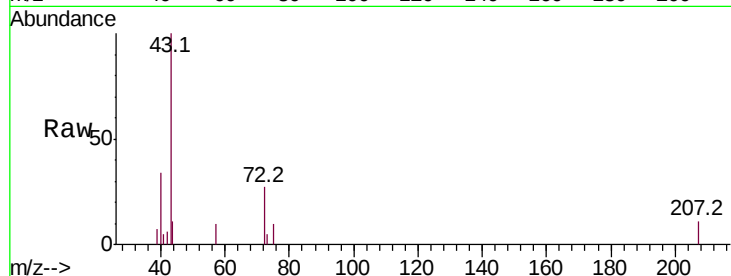




#25
2-Butanone
Concen: 17.644 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.01 min
Lab File: VD067325.D
Acq: 20 Oct 2020 15:45

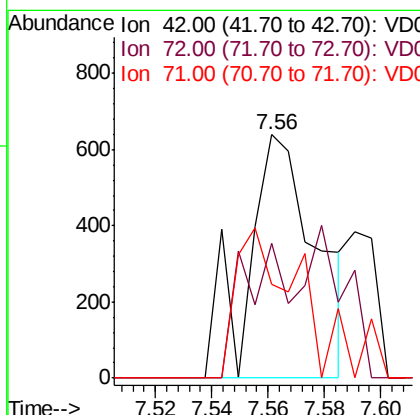
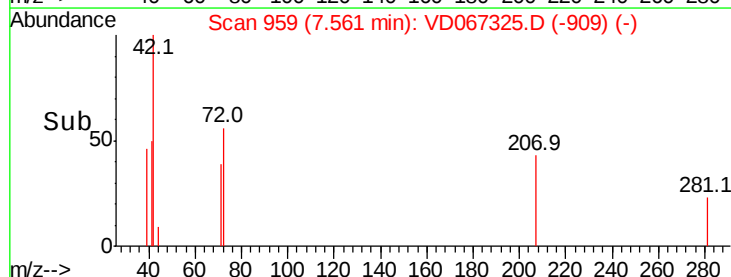
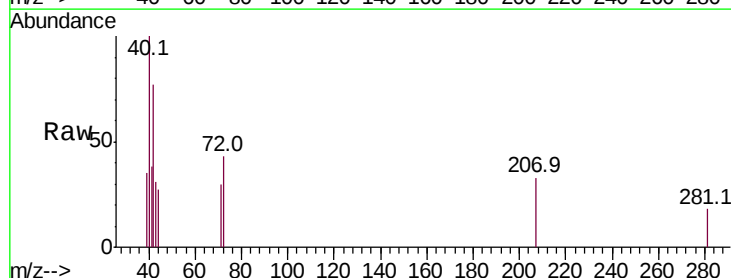
Instrument :
MSVOA_D
ClientSampleId :
33B

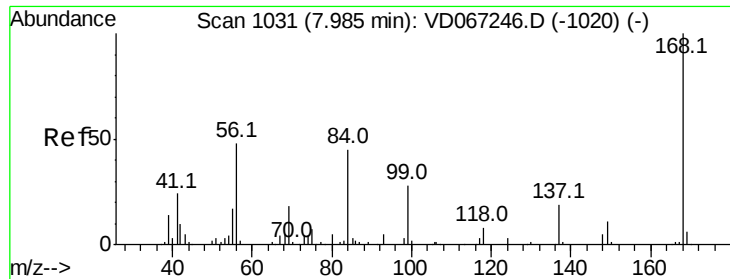
Tot Ion: 43 Resp: 9222
Ion Ratio Lower Upper
43 100
72 27.0 23.7 35.5



#29
Tetrahydrofuran
Concen: 3.703 ug/l
RT: 7.56 min Scan# 959
Delta R.T. -0.01 min
Lab File: VD067325.D
Acq: 20 Oct 2020 15:45

Tgt Ion: 42 Resp: 1076
Ion Ratio Lower Upper
42 100
72 35.3 43.2 64.8#
71 61.0 39.4 59.0#

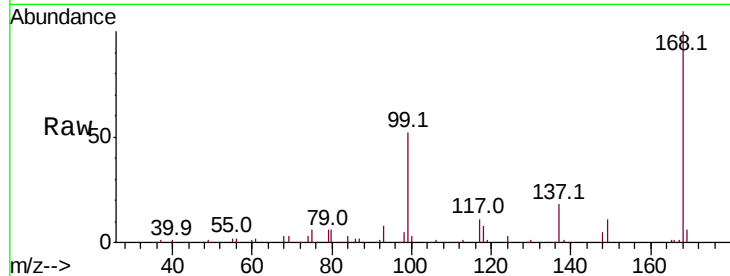




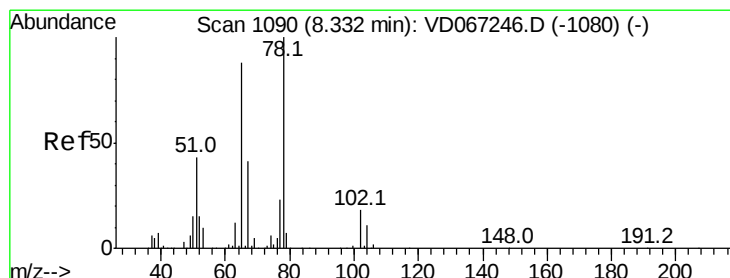
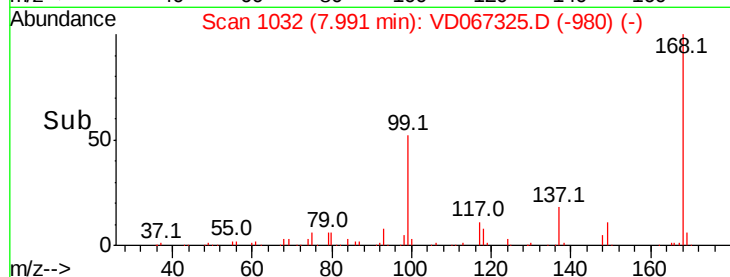
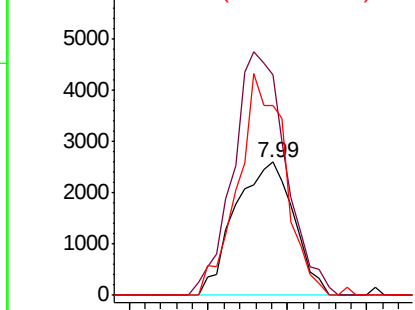
#31
Cyclohexane
Concen: 1.776 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD067325.D
Acq: 20 Oct 2020 15:45

Instrument :
MSVOA_D
ClientSampleId :
33B

Tot Ion: 56 Resp: 6697
Ion Ratio Lower Upper
56 100
69 165.9 29.8 44.6#
84 142.8 76.6 114.8#

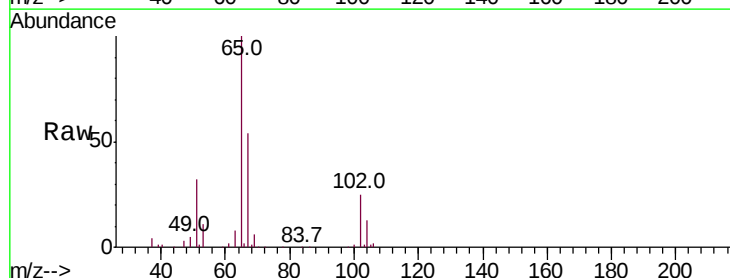


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

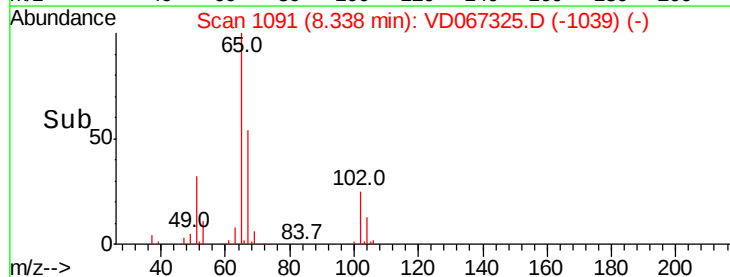
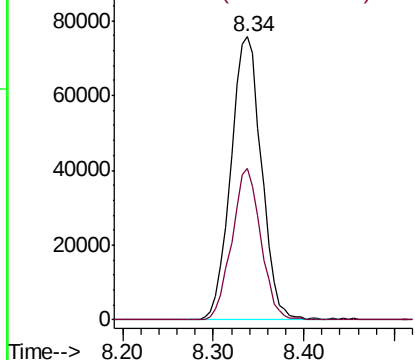


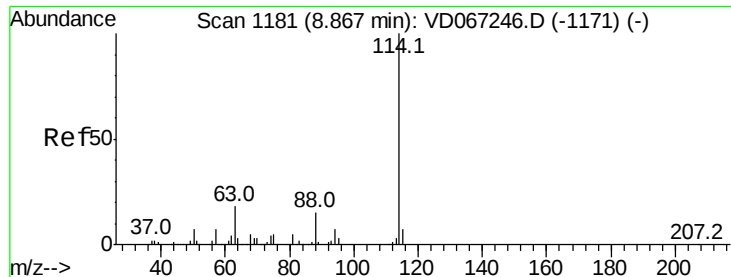
#33
1,2-Dichloroethane-d4
Concen: 54.518 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD067325.D
Acq: 20 Oct 2020 15:45

Tgt Ion: 65 Resp: 178491
Ion Ratio Lower Upper
65 100
67 50.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

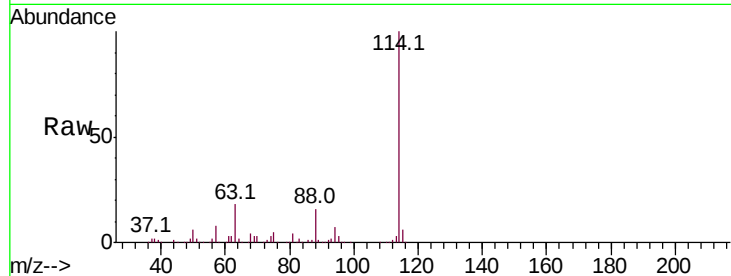




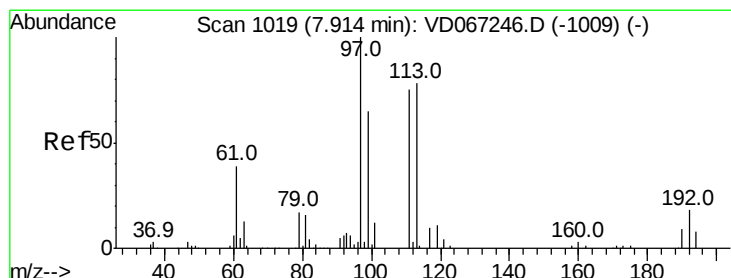
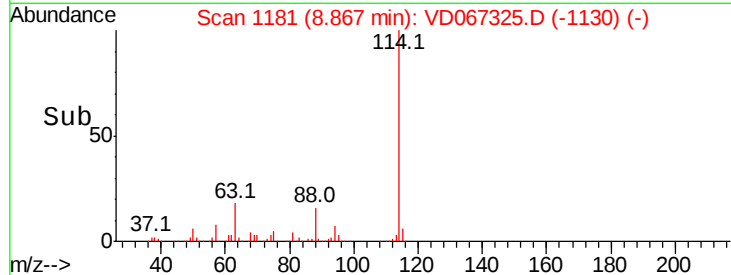
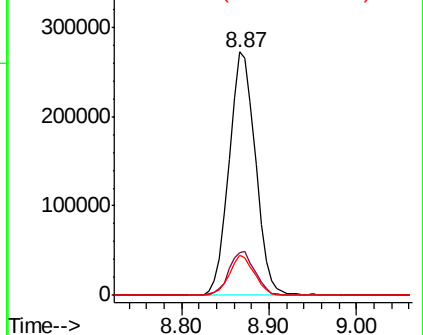
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD067325.D
Acq: 20 Oct 2020 15:45

Instrument :
MSVOA_D
ClientSampleId :
33B

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	35.0
88	16.2	0.0	30.6

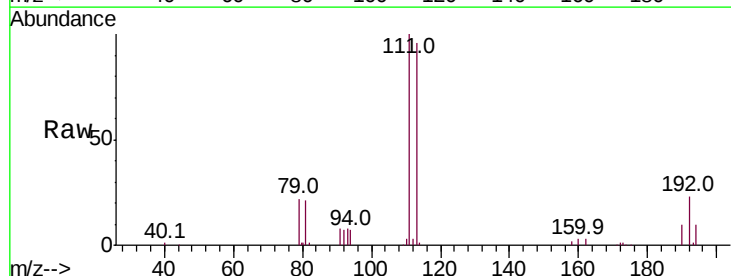


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

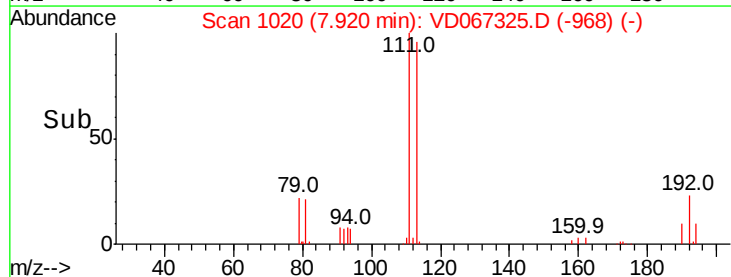
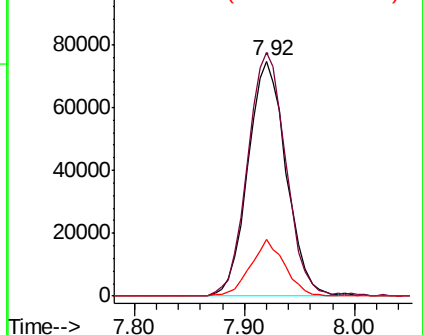


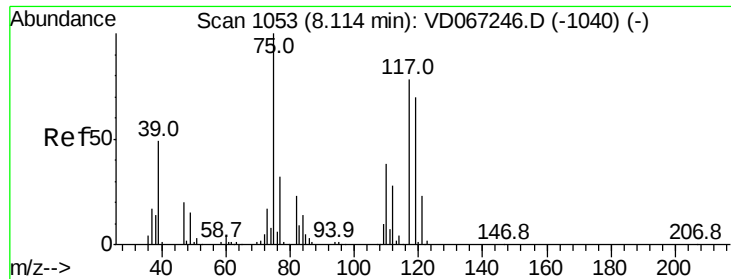
#35
Dibromofluoromethane
Concen: 48.738 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD067325.D
Acq: 20 Oct 2020 15:45

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.6	122.4
192	21.6	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: 4.902 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067325.D

Acq: 20 Oct 2020 15:45

Instrument :

MSVOA_D

ClientSampleId :

33B

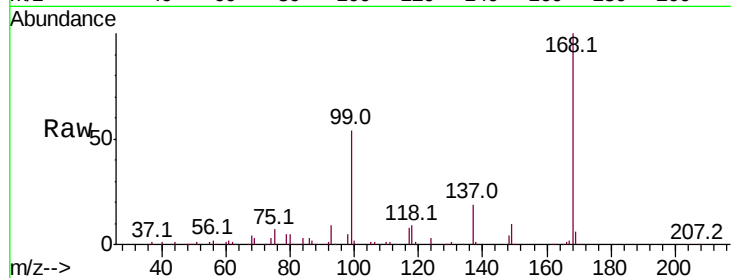
Tot Ion: 75 Resp: 23237

Ion Ratio Lower Upper

75 100

110 10.4 19.6 58.7#

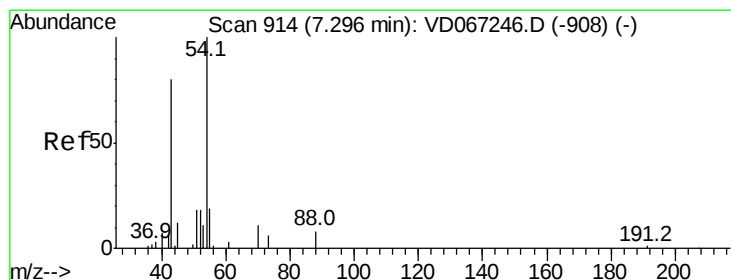
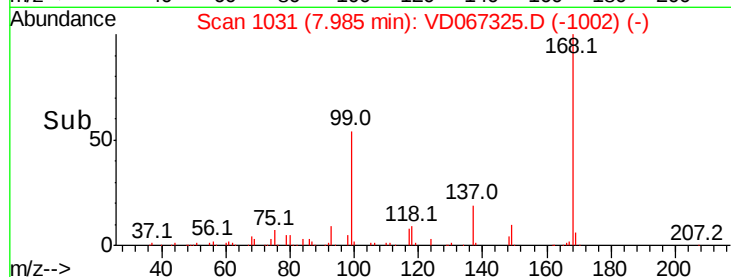
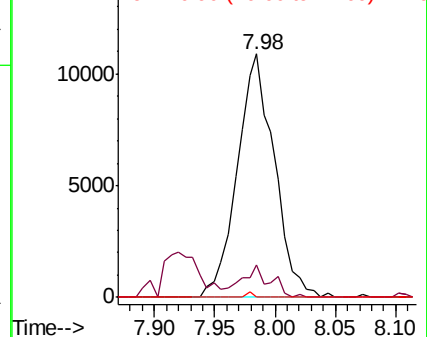
77 0.4 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 6.613 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.08 min

Lab File: VD067325.D

Acq: 20 Oct 2020 15:45

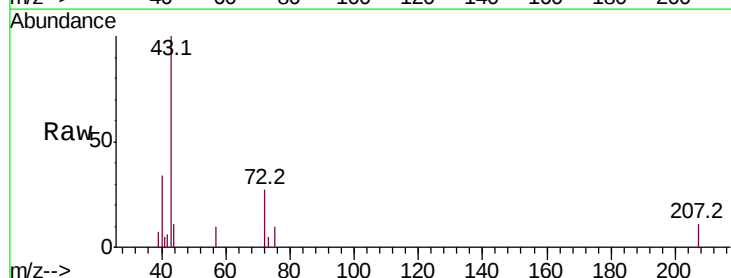
Tgt Ion: 43 Resp: 9222

Ion Ratio Lower Upper

43 100

61 0.0 15.6 23.4#

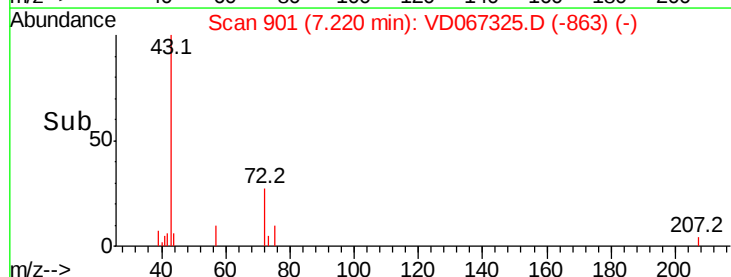
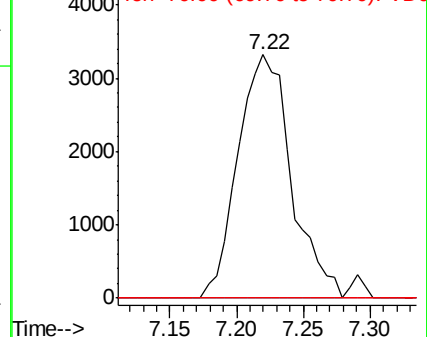
70 0.0 10.4 15.6#

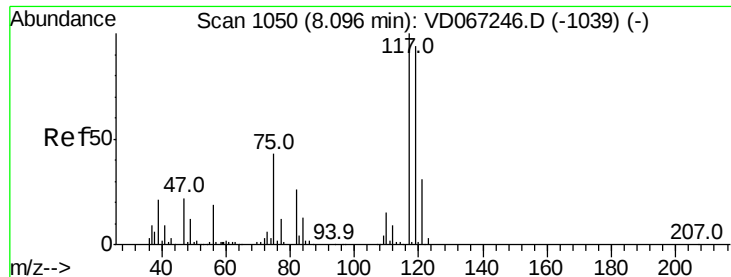


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.458 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD067325.D

Acq: 20 Oct 2020 15:45

Instrument :

MSVOA_D

ClientSampled :

33B

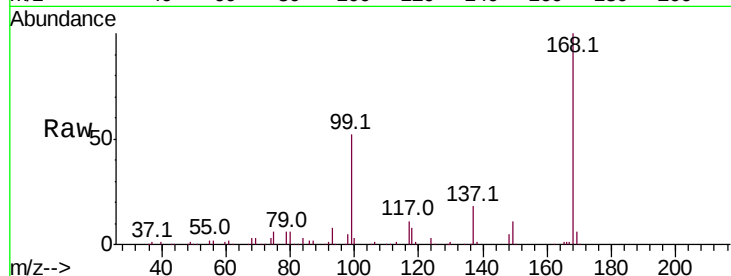
Tot Ion:117 Resp: 33066

Ion Ratio Lower Upper

117 100

119 6.2 75.0 112.4#

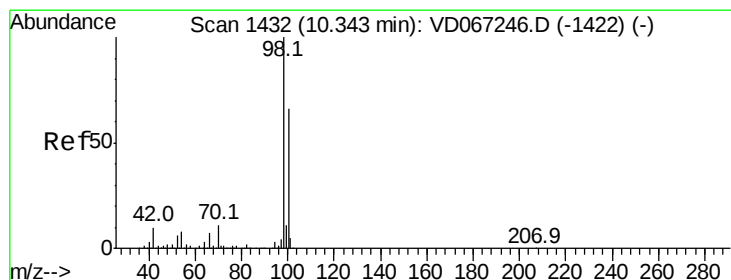
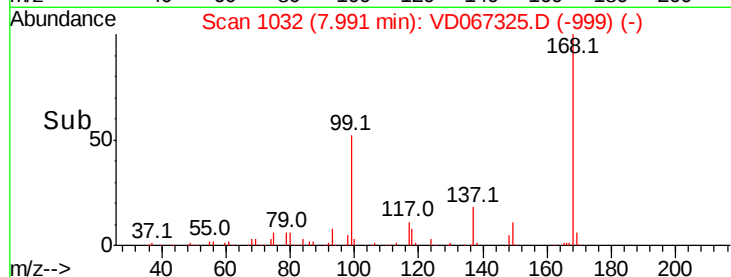
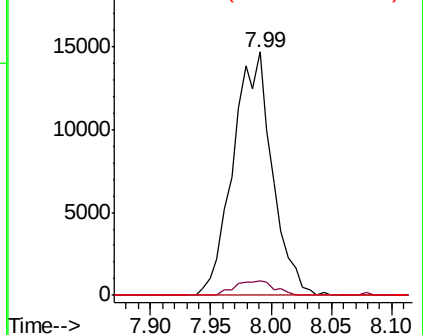
121 0.0 24.9 37.3#



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: 48.432 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067325.D

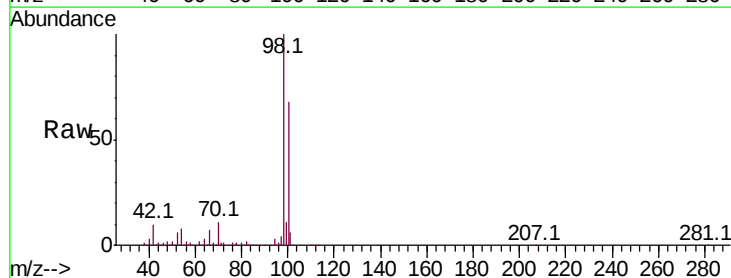
Acq: 20 Oct 2020 15:45

Tgt Ion: 98 Resp: 652338

Ion Ratio Lower Upper

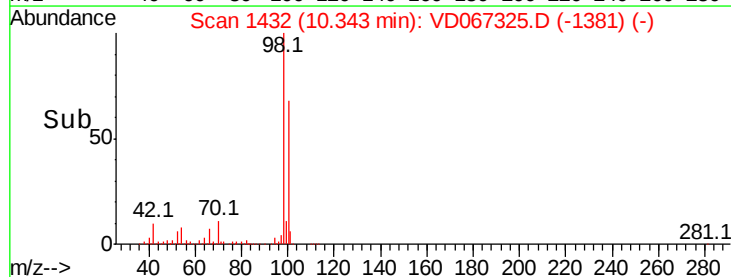
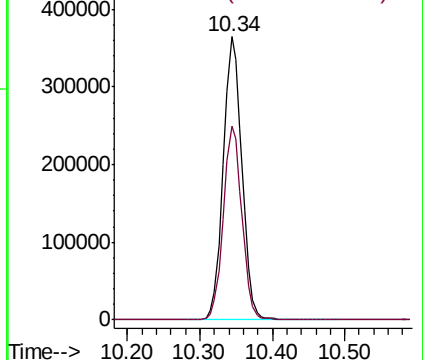
98 100

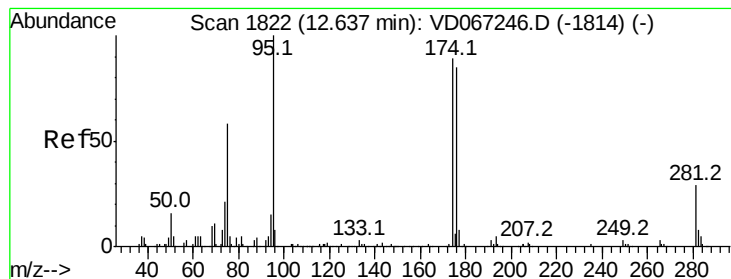
100 67.8 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 47.468 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067325.D

Acq: 20 Oct 2020 15:45

Instrument :

MSVOA_D

ClientSampleId :

33B

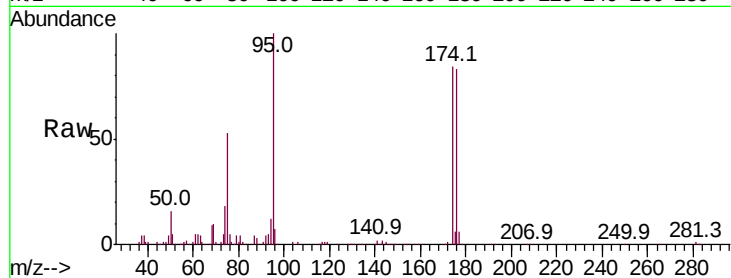
Tot Ion: 95 Resp: 222321

Ion Ratio Lower Upper

95 100

174 87.3 0.0 175.2

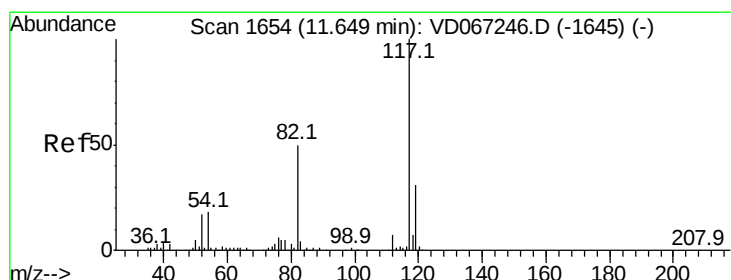
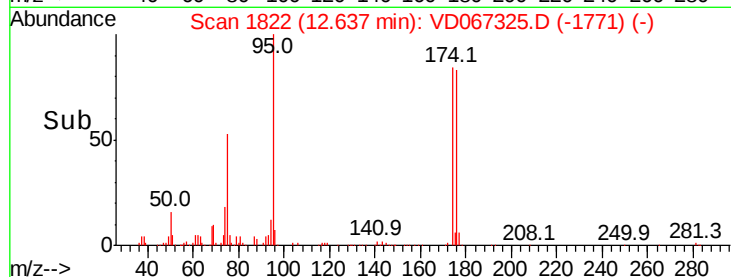
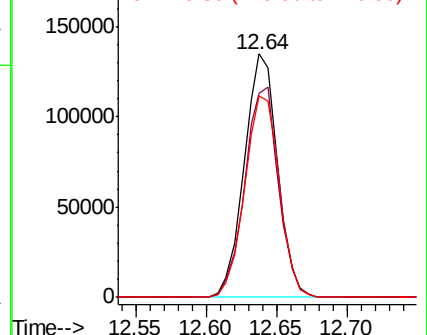
176 85.9 0.0 168.6



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: VD067325.D

Acq: 20 Oct 2020 15:45

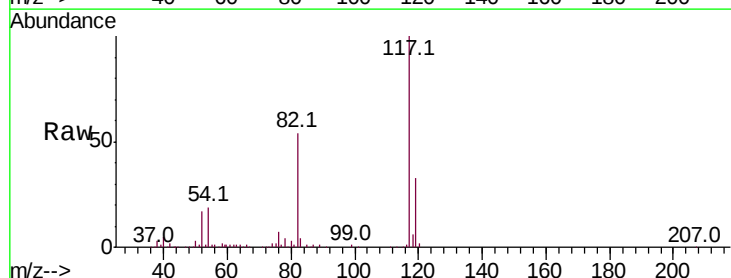
Tgt Ion: 117 Resp: 530479

Ion Ratio Lower Upper

117 100

82 54.3 39.9 59.9

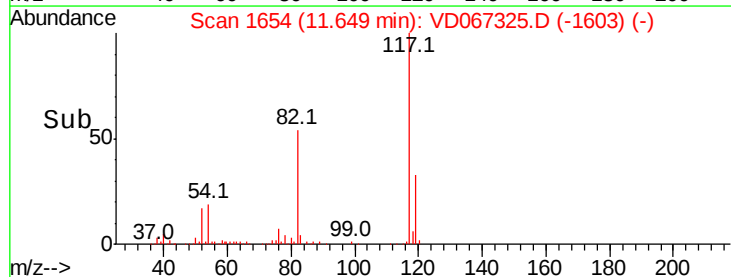
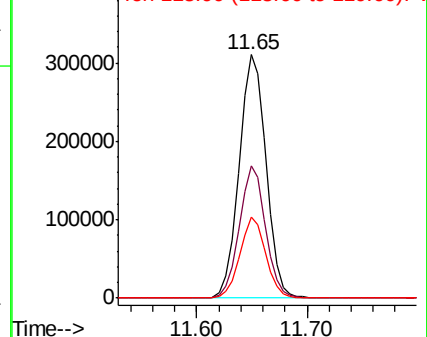
119 33.0 24.9 37.3

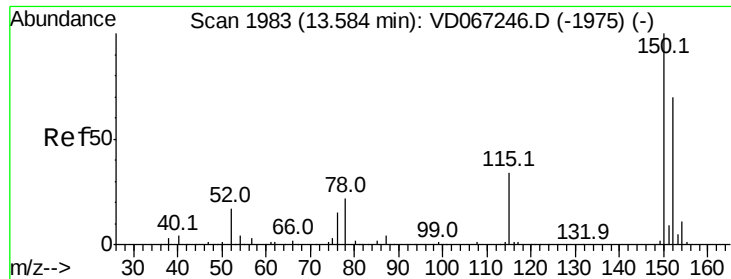


Abundance Ion 116.90 (116.60 to 117.60): V

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# 1983

Delta R.T. 0.00 min

Lab File: VD067325.D

Acq: 20 Oct 2020 15:45

Instrument :

MSVOA_D

ClientSampleId :

33B

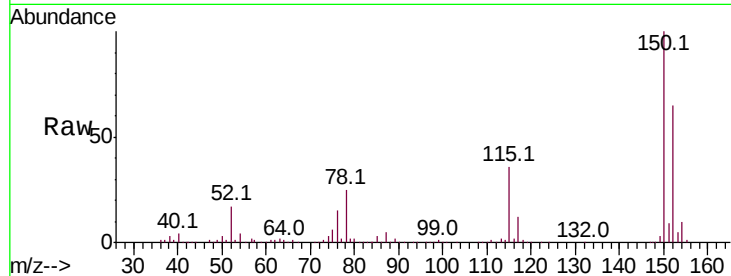
Tot Ion:152 Resp: 244022

Ion Ratio Lower Upper

152 100

115 57.5 29.3 87.9

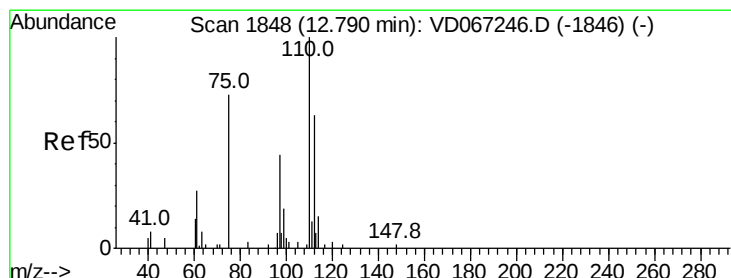
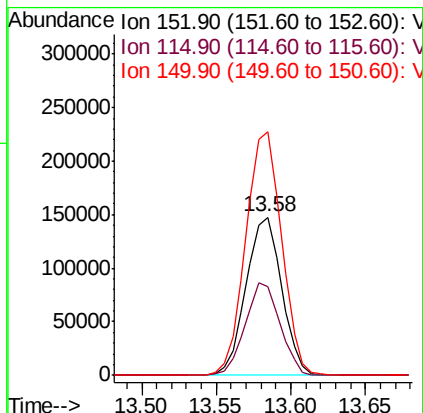
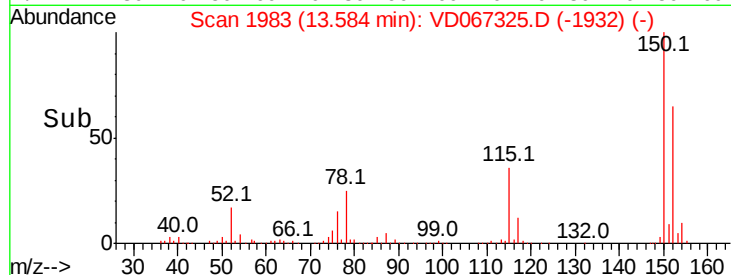
150 154.6 0.0 339.0



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: 67.576 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067325.D

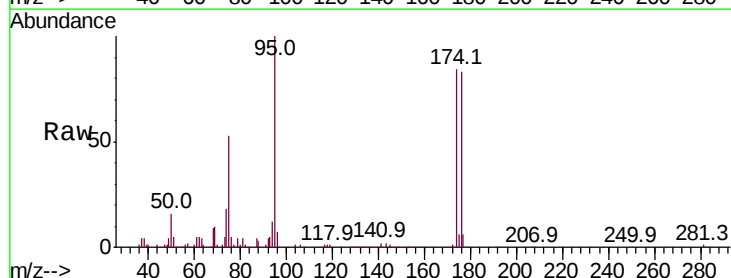
Acq: 20 Oct 2020 15:45

Tgt Ion: 75 Resp: 114292

Ion Ratio Lower Upper

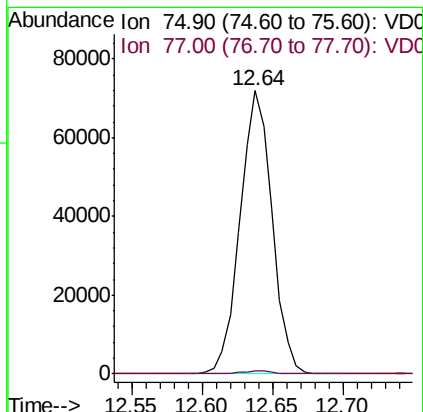
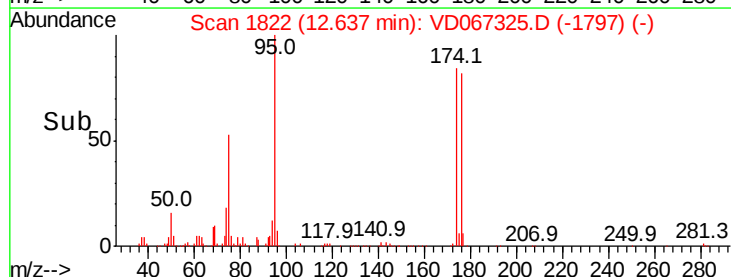
75 100

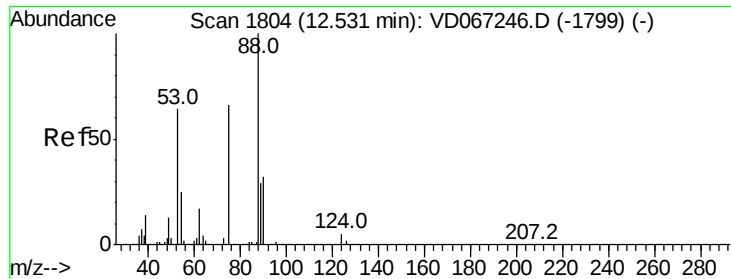
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 153.243 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067325.D

Acq: 20 Oct 2020 15:45

Instrument :

MSVOA_D

ClientSampleId :

33B

Tot Ion: 75 Resp: 114292

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 39.9 59.9#

