

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102020\
 Data File : VD067323.D
 Acq On : 20 Oct 2020 14:50
 Operator : VA/SY
 Sample : L4436-05
 Misc : 10.73G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 34B

Quant Time: Oct 21 01:50:35 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	16840	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	26614	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	26406	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	12604	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	12432	73.69	ug/l	0.00
Spiked Amount			Recovery	=	147.38%	
35) Dibromofluoromethane	7.91	113	8809	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
50) Toluene-d8	10.34	98	29658	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
62) 4-Bromofluorobenzene	12.64	95	10263	46.05	ug/l	0.00
Spiked Amount			Recovery	=	92.10%	

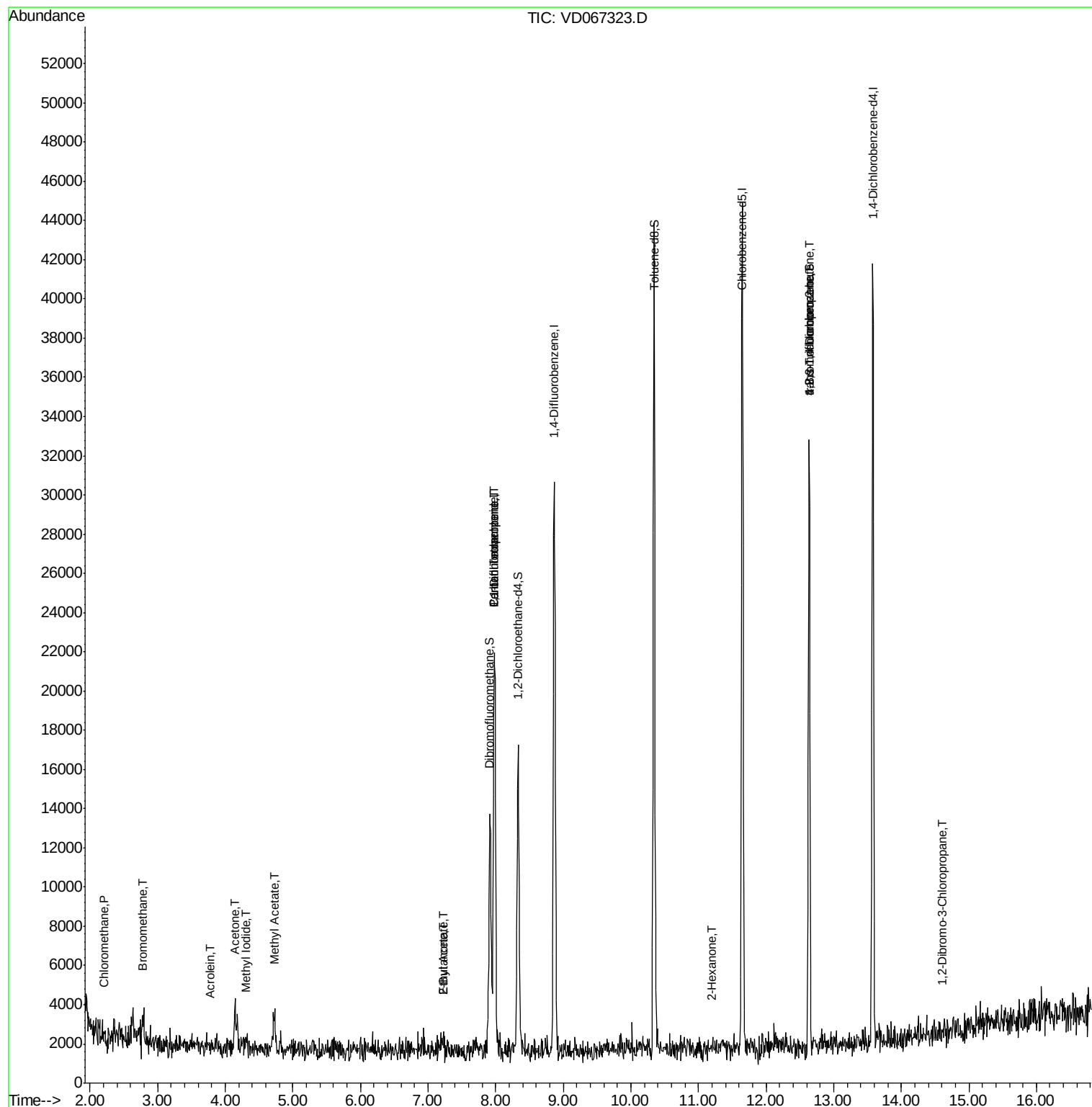
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	222	2.095	ug/l #	41
5) Bromomethane	2.79	94	731	7.014	ug/l #	80
10) Methyl Iodide	4.30	142	182	1.268	ug/l #	64
13) Acrolein	3.78	56	54	26.555	ug/l #	15
16) Acetone	4.14	43	3770	159.556	ug/l #	87
18) Methyl Acetate	4.73	43	3392	62.940	ug/l #	74
25) 2-Butanone	7.22	43	750	27.846	ug/l #	45
36) 1,1-Dichloropropene	7.98	75	1229	5.448	ug/l #	39
37) Ethyl Acetate	7.22	43	750	11.301	ug/l #	61
38) Carbon Tetrachloride	7.98	117	1400	4.856	ug/l #	13
59) 2-Hexanone	11.18	43	63	1.404	ug/l #	22
76) 1,2,3-Trichloropropane	12.64	75	4875	55.805	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	4875	126.549	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.61	75	62	2.784	ug/l #	1

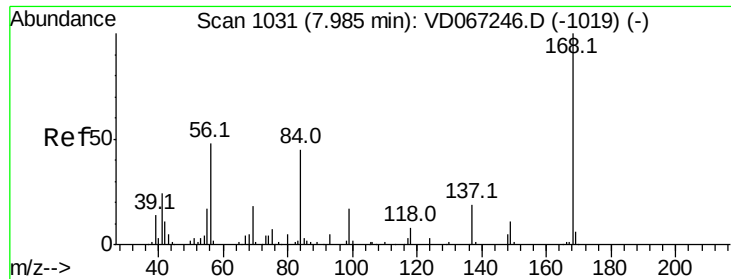
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067323.D

Acq: 20 Oct 2020 14:50

Instrument :

MSVOA_D

ClientSampled :

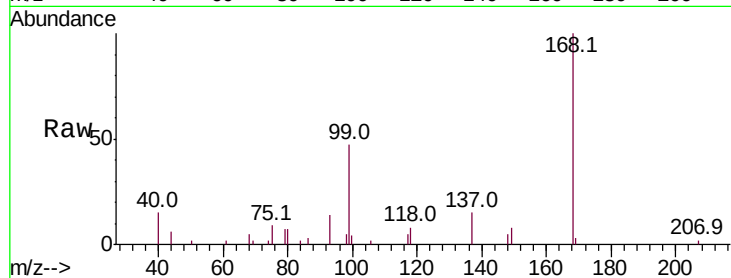
34B

Tot Ion:168 Resp: 16840

Ion Ratio Lower Upper

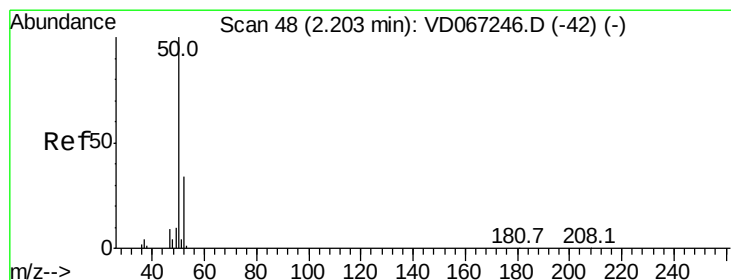
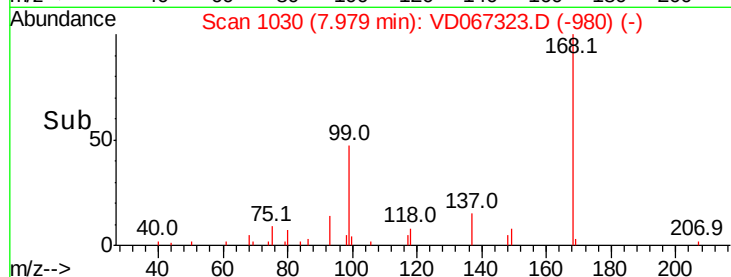
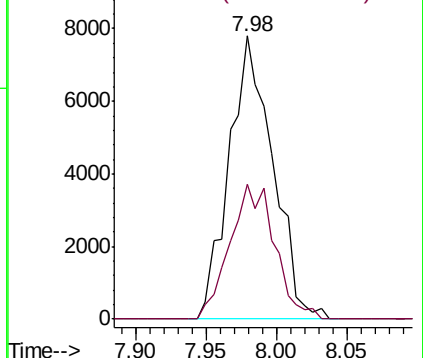
168 100

99 47.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 2.095 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.01 min

Lab File: VD067323.D

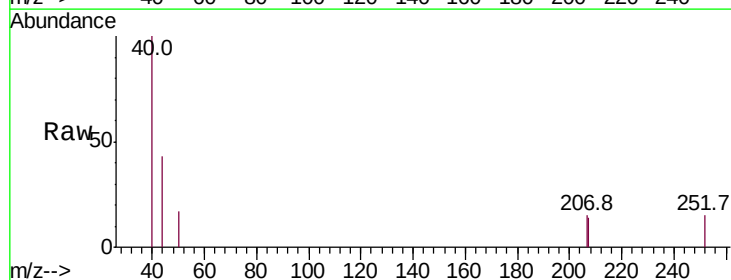
Acq: 20 Oct 2020 14:50

Tgt Ion: 50 Resp: 222

Ion Ratio Lower Upper

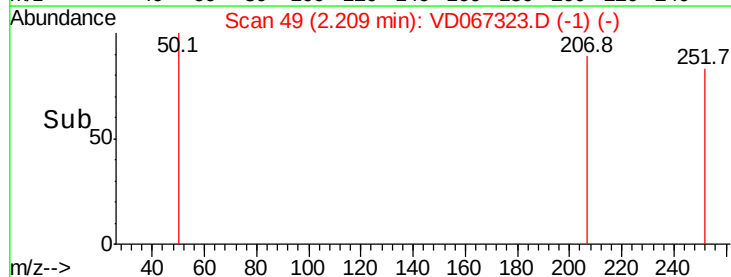
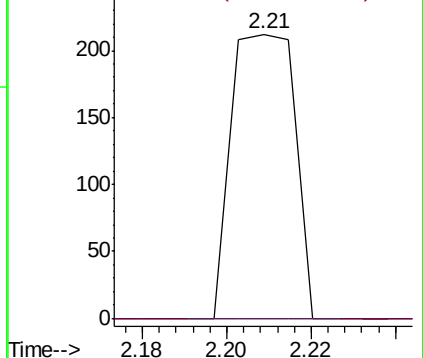
50 100

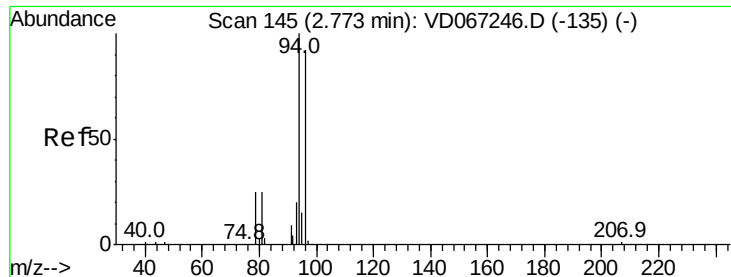
52 0.0 27.1 40.7#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 7.014 ug/l

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067323.D

Acq: 20 Oct 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

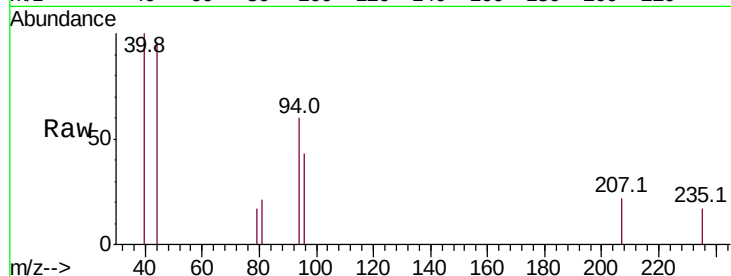
34B

Tot Ion: 94 Resp: 731

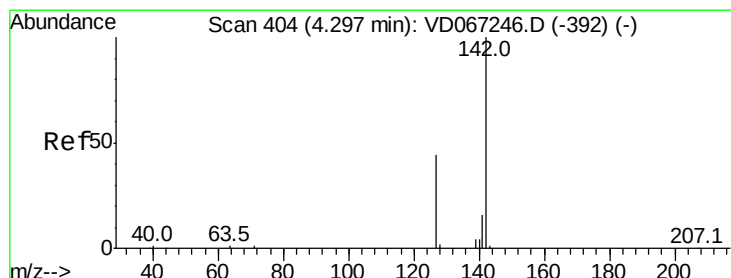
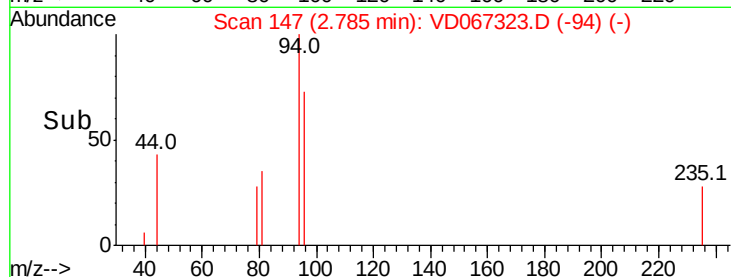
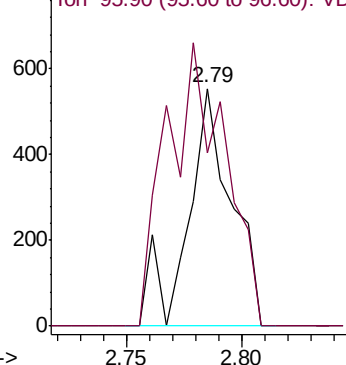
Ion Ratio Lower Upper

94 100

96 72.7 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC



#10

Methyl Iodide

Concen: 1.268 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD067323.D

Acq: 20 Oct 2020 14:50

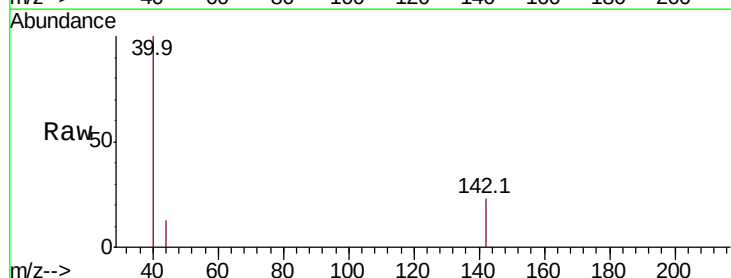
Tgt Ion: 142 Resp: 182

Ion Ratio Lower Upper

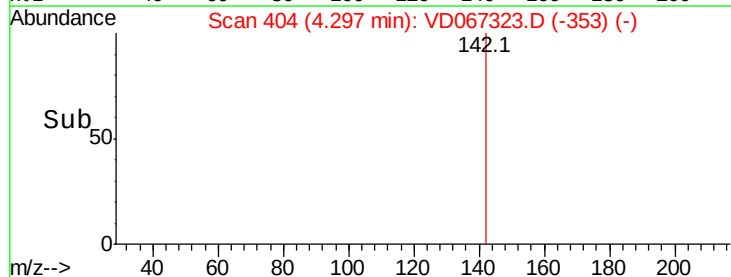
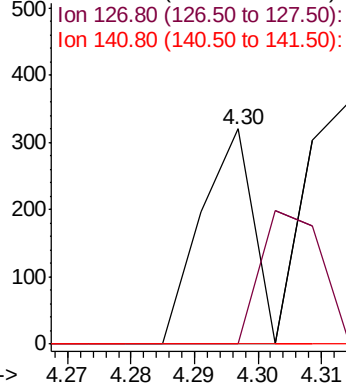
142 100

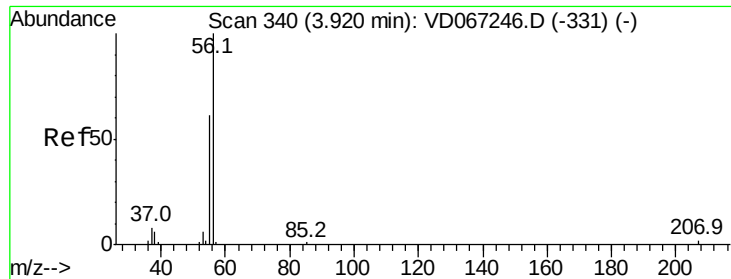
127 72.5 38.4 57.6#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V





#13

Acrolein

Concen: 26.555 ug/l

RT: 3.78 min Scan# 316

Delta R.T. -0.14 min

Lab File: VD067323.D

Acq: 20 Oct 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

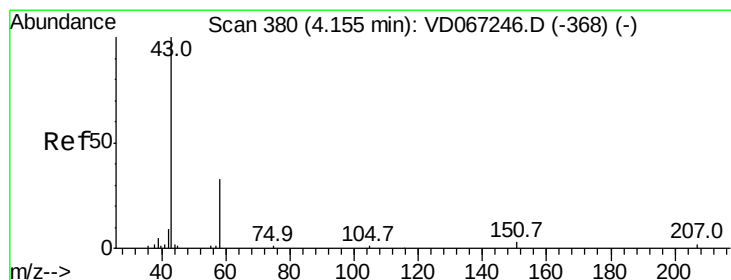
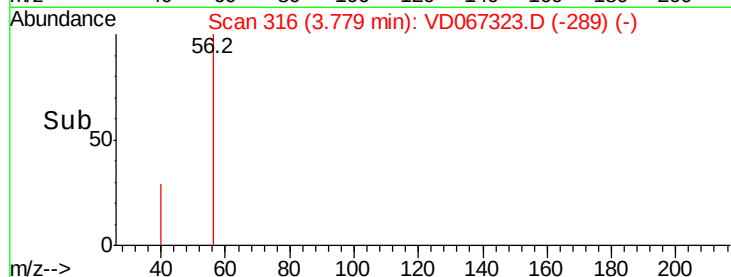
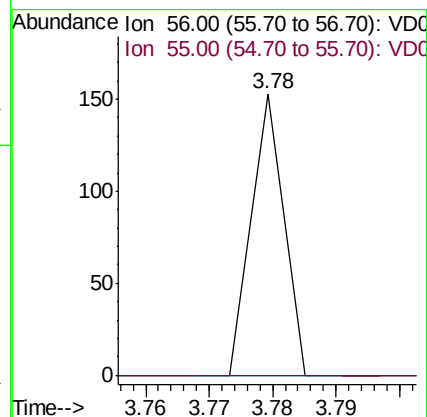
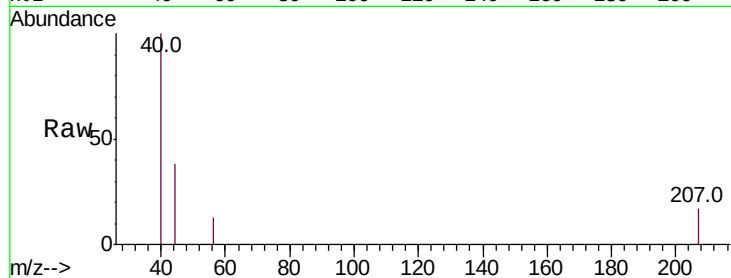
34B

Tot Ion: 56 Resp: 54

Ion Ratio Lower Upper

56 100

55 0.0 56.0 84.0#



#16

Acetone

Concen: 159.556 ug/l

RT: 4.14 min Scan# 378

Delta R.T. -0.01 min

Lab File: VD067323.D

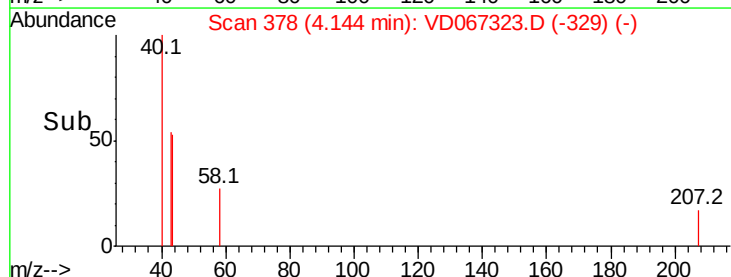
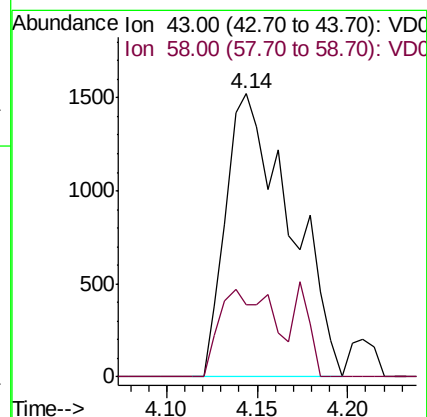
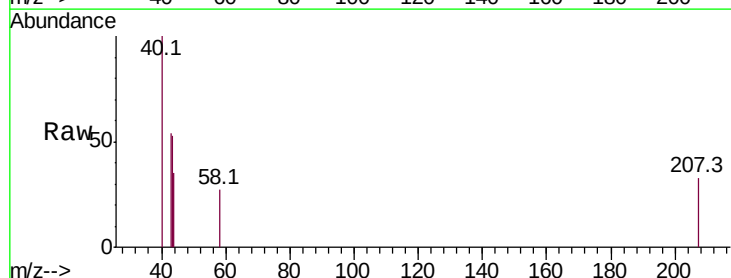
Acq: 20 Oct 2020 14:50

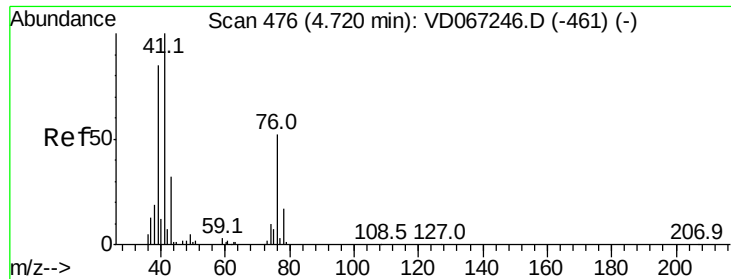
Tgt Ion: 43 Resp: 3770

Ion Ratio Lower Upper

43 100

58 25.5 26.1 39.1#

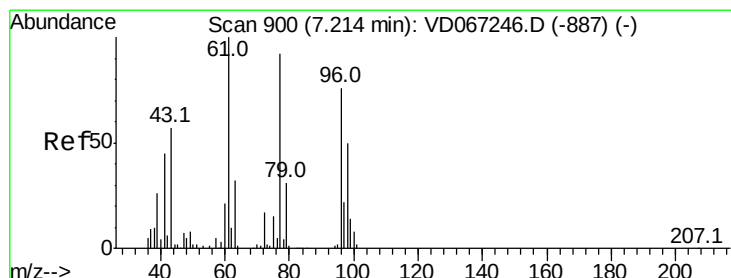
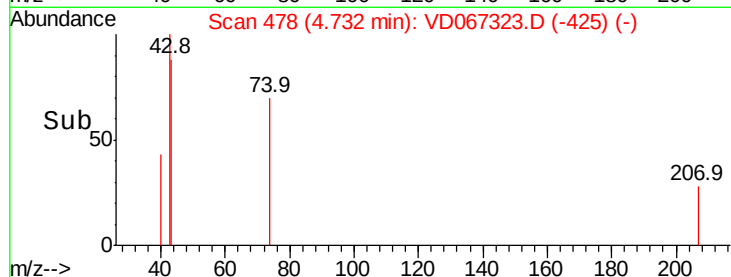
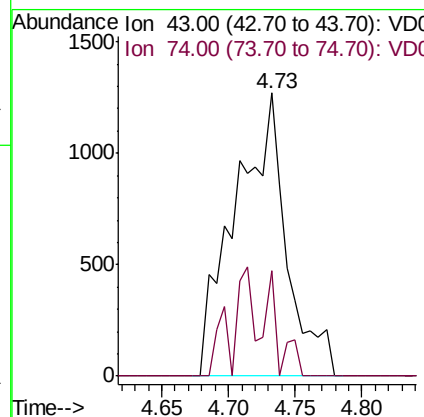
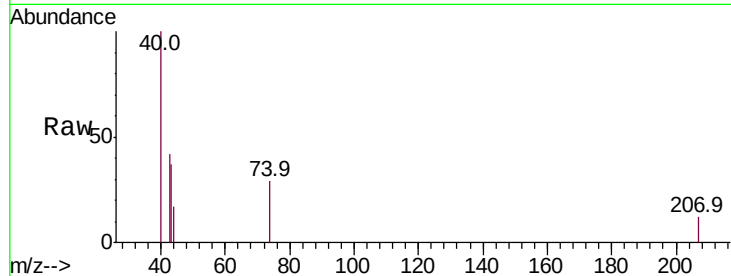




#18
Methyl Acetate
Concen: 62.940 ug/l
RT: 4.73 min Scan# 478
Delta R.T. 0.01 min
Lab File: VD067323.D
Acq: 20 Oct 2020 14:50

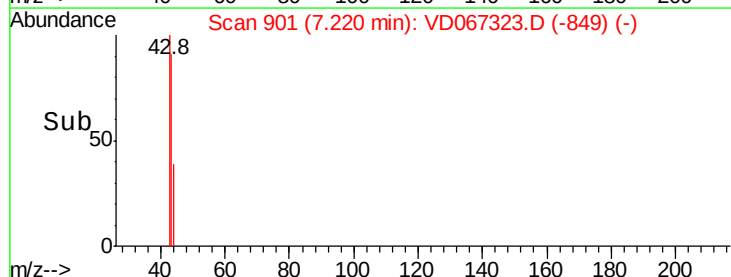
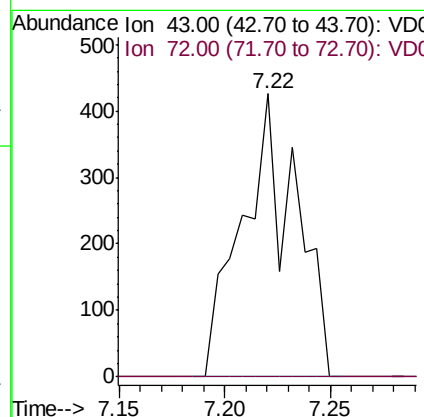
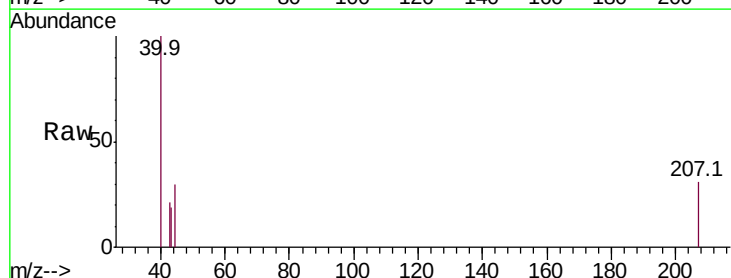
Instrument :
MSVOA_D
ClientSampled :
34B

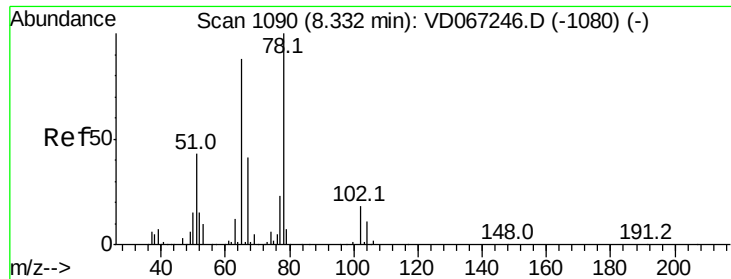
Tot Ion: 43 Resp: 3392
Ion Ratio Lower Upper
43 100
74 18.5 26.6 39.8#



#25
2-Butanone
Concen: 27.846 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.01 min
Lab File: VD067323.D
Acq: 20 Oct 2020 14:50

Tgt Ion: 43 Resp: 750
Ion Ratio Lower Upper
43 100
72 0.0 23.7 35.5#

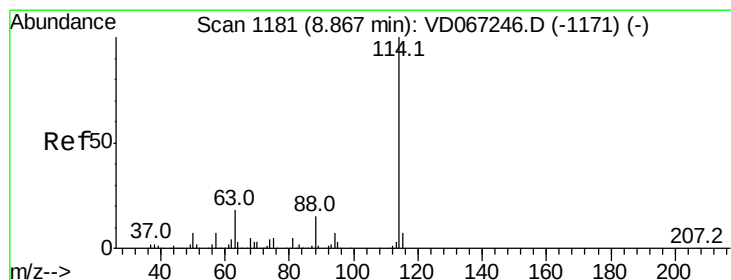
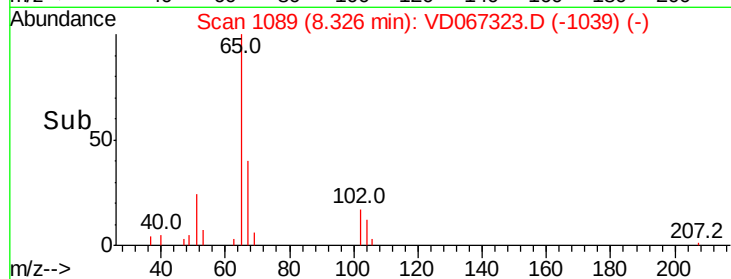
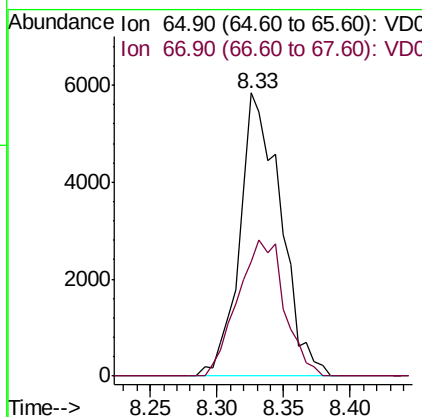
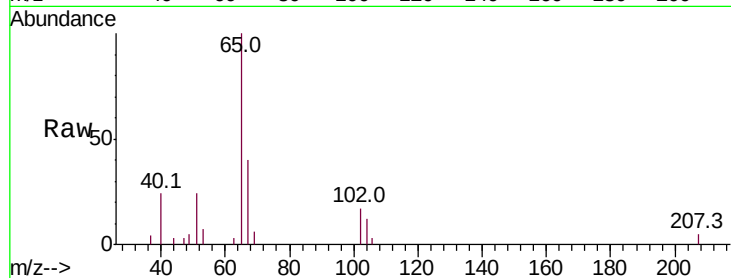




#33
 1,2-Dichloroethane-d4
 Concen: 73.688 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.01 min
 Lab File: VD067323.D
 Acq: 20 Oct 2020 14:50

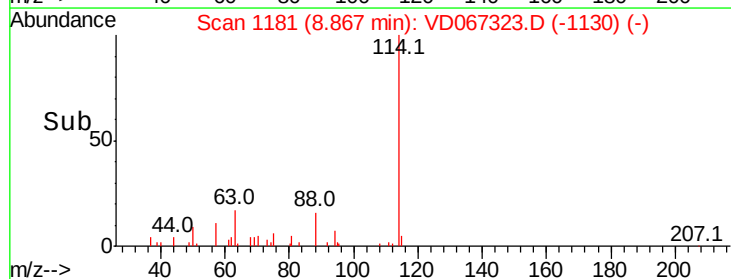
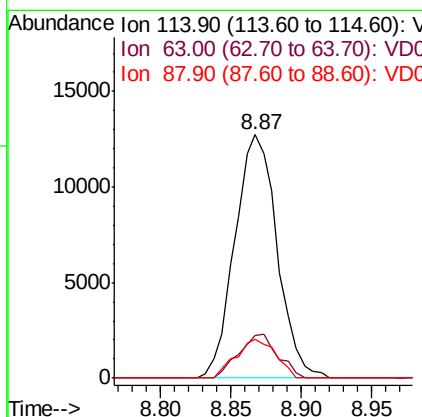
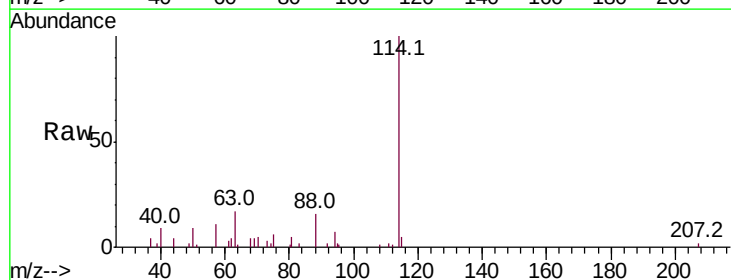
Instrument :
 MSVOA_D
 ClientSampleId :
 34B

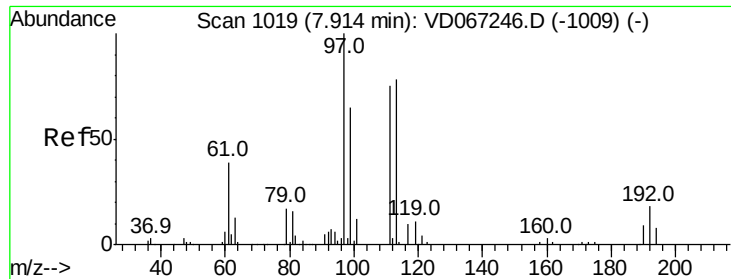
Tot Ion: 65 Resp: 12432
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD067323.D
 Acq: 20 Oct 2020 14:50

Tgt Ion: 114 Resp: 26614
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 35.0
 88 16.2 0.0 30.6

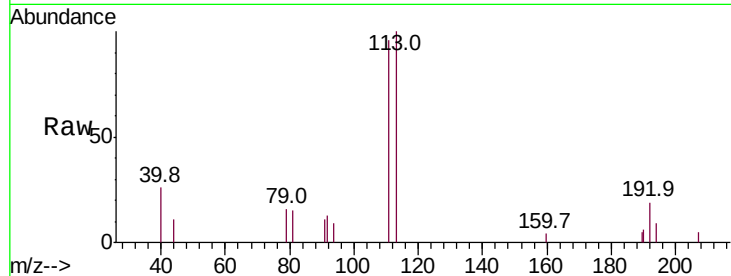




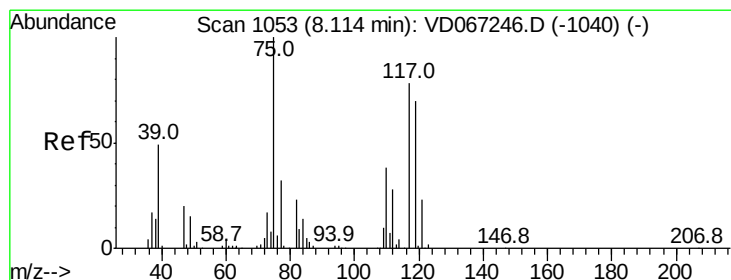
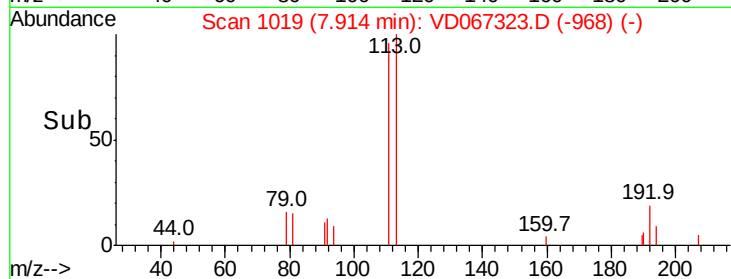
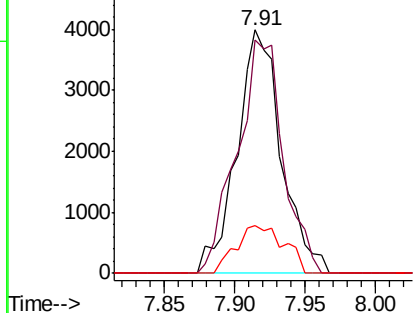
#35
 Dibromofluoromethane
 Concen: 49.736 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD067323.D
 Acq: 20 Oct 2020 14:50

Instrument :
 MSVOA_D
 ClientSampleId :
 34B

Tot Ion:113 Resp: 8809
 Ion Ratio Lower Upper
 113 100
 111 99.4 81.6 122.4
 192 21.3 17.0 25.4

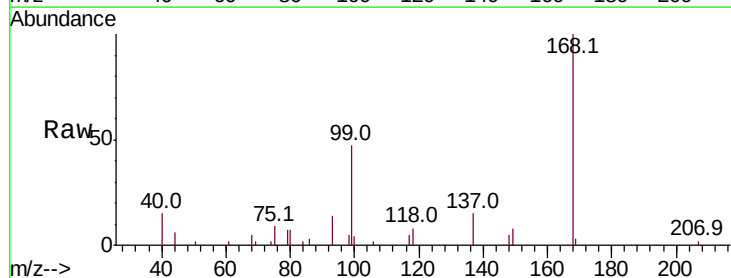


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

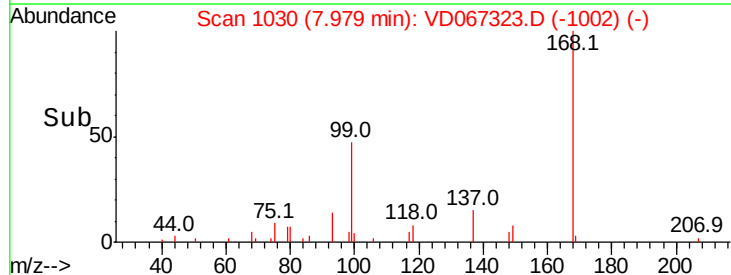
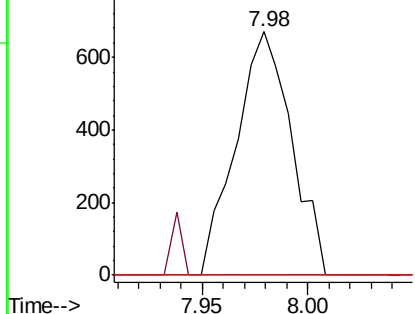


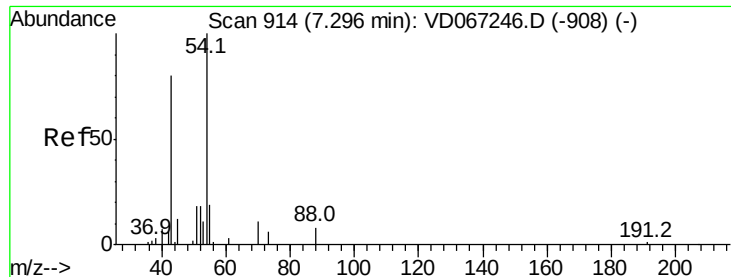
#36
 1,1-Dichloropropene
 Concen: 5.448 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD067323.D
 Acq: 20 Oct 2020 14:50

Tgt Ion: 75 Resp: 1229
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.6 58.7#
 77 0.0 24.6 37.0#



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

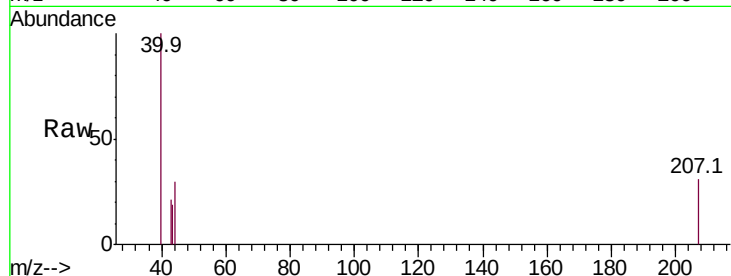




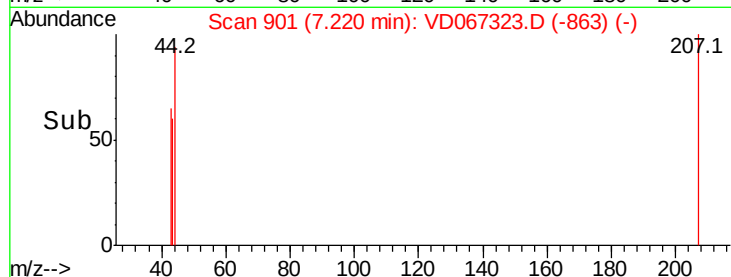
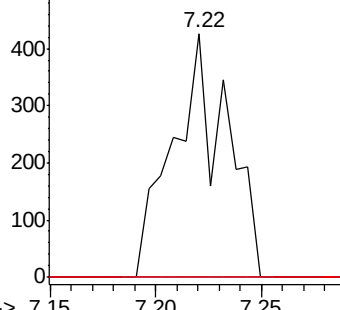
#37
Ethyl Acetate
Concen: 11.301 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.08 min
Lab File: VD067323.D
Acq: 20 Oct 2020 14:50

Instrument :
MSVOA_D
ClientSampled :
34B

Tot Ion: 43 Resp: 750
Ion Ratio Lower Upper
43 100
61 0.0 15.6 23.4#
70 0.0 10.4 15.6#

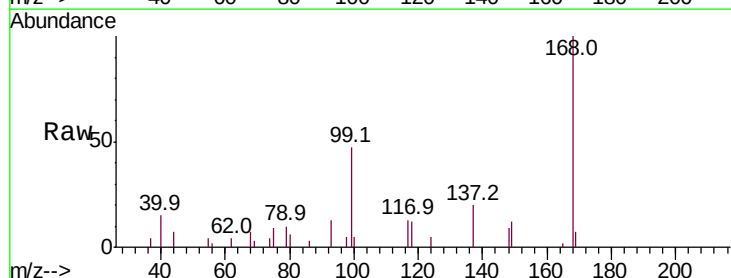
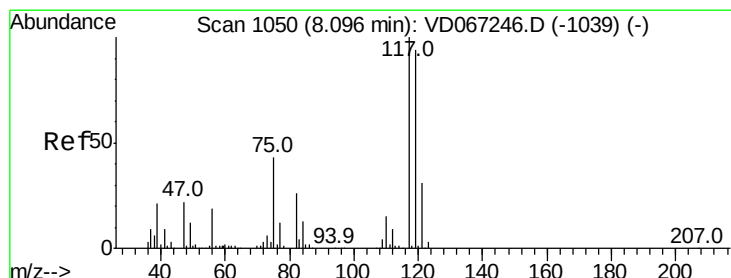


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

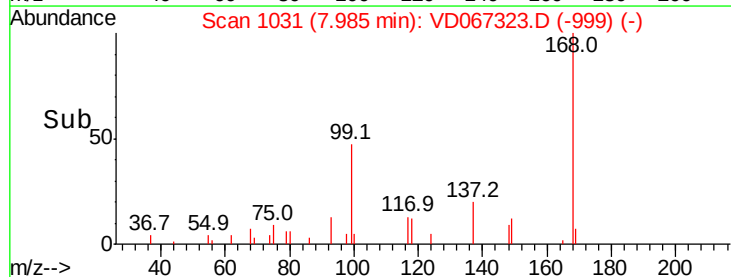
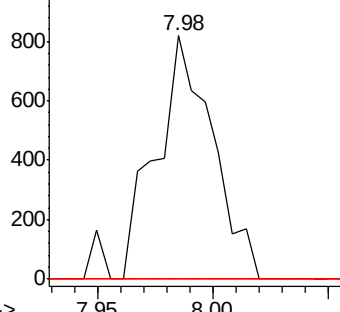


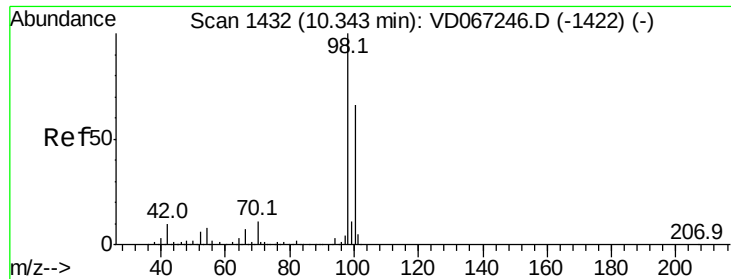
#38
Carbon Tetrachloride
Concen: 4.856 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD067323.D
Acq: 20 Oct 2020 14:50

Tgt Ion: 117 Resp: 1400
Ion Ratio Lower Upper
117 100
119 0.0 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: 46.271 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067323.D

Acq: 20 Oct 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

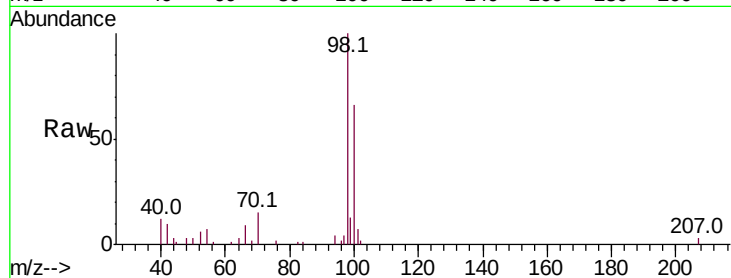
34B

Tot Ion: 98 Resp: 29658

Ion Ratio Lower Upper

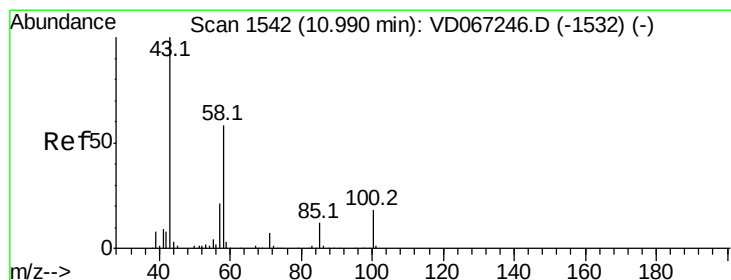
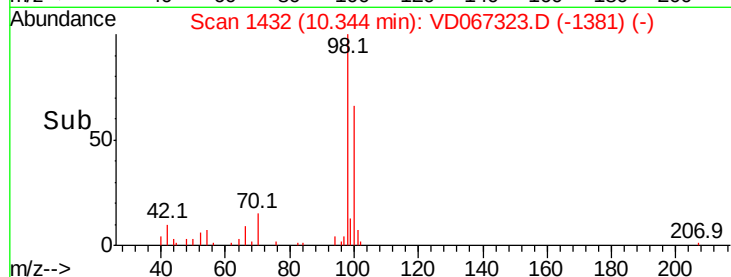
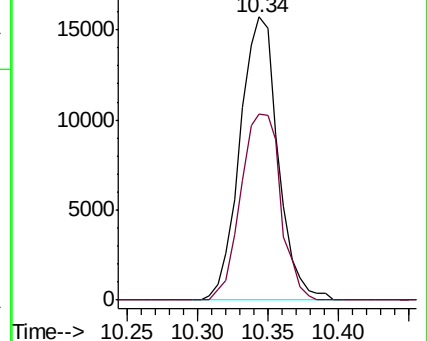
98 100

100 69.0 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#59

2-Hexanone

Concen: 1.404 ug/l

RT: 11.18 min Scan# 1575

Delta R.T. 0.19 min

Lab File: VD067323.D

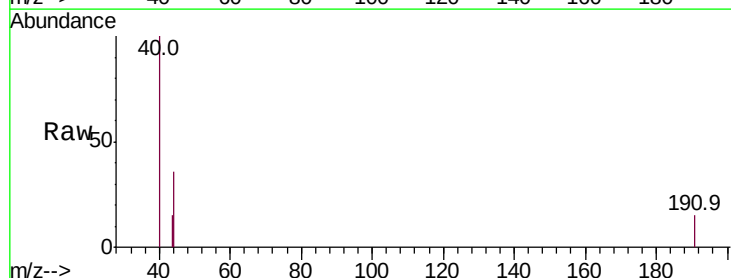
Acq: 20 Oct 2020 14:50

Tgt Ion: 43 Resp: 63

Ion Ratio Lower Upper

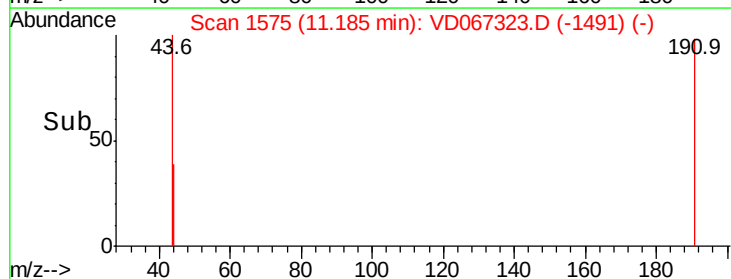
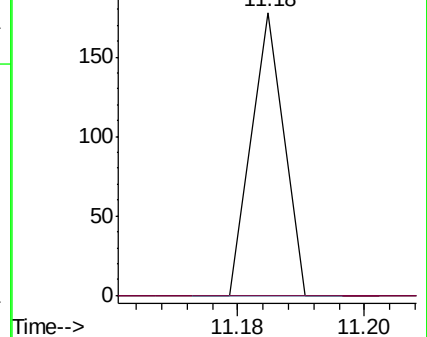
43 100

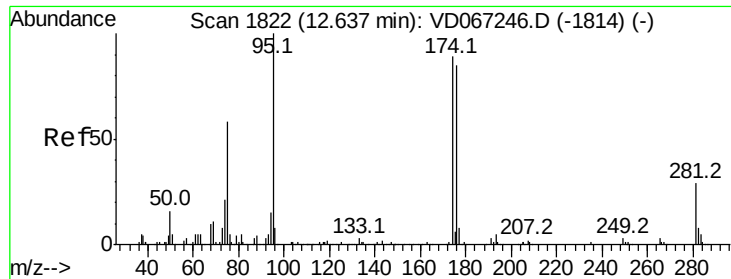
58 0.0 29.3 87.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 46.047 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067323.D

Acq: 20 Oct 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

34B

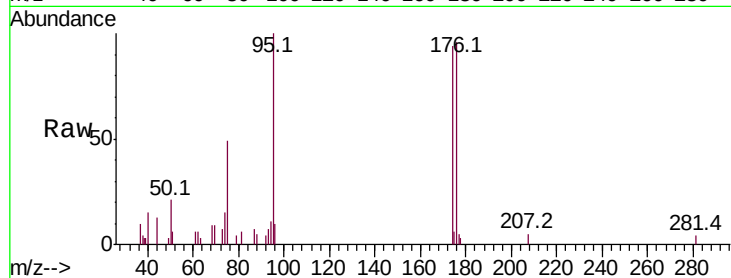
Tot Ion: 95 Resp: 10263

Ion Ratio Lower Upper

95 100

174 86.4 0.0 175.2

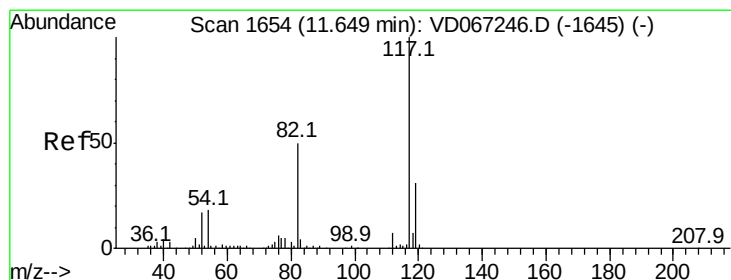
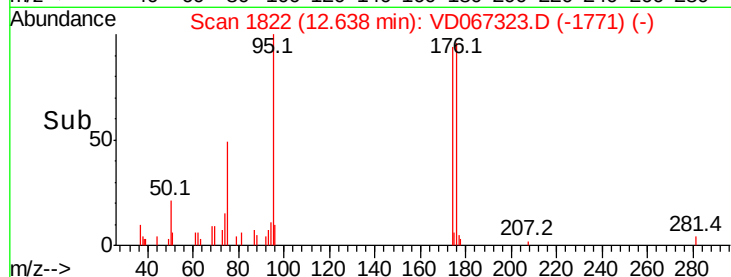
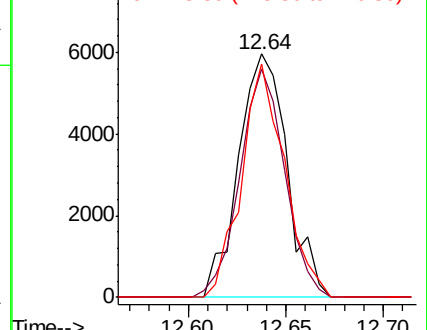
176 85.4 0.0 168.6



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: VD067323.D

Acq: 20 Oct 2020 14:50

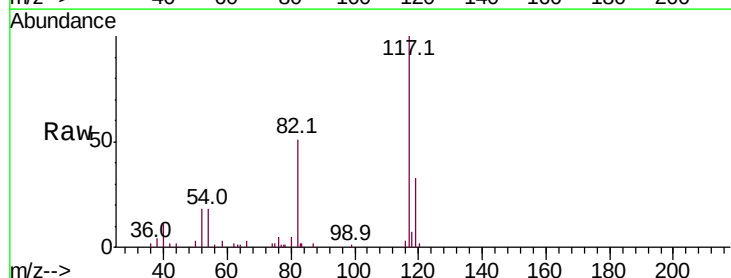
Tgt Ion: 117 Resp: 26406

Ion Ratio Lower Upper

117 100

82 50.6 39.9 59.9

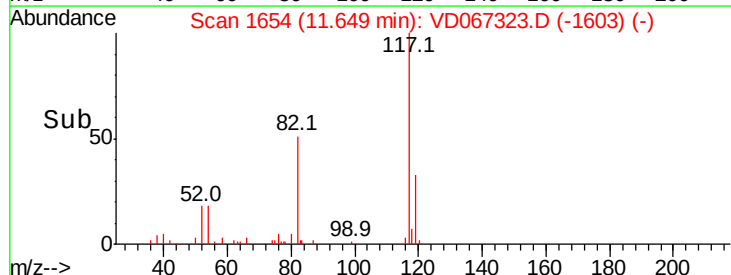
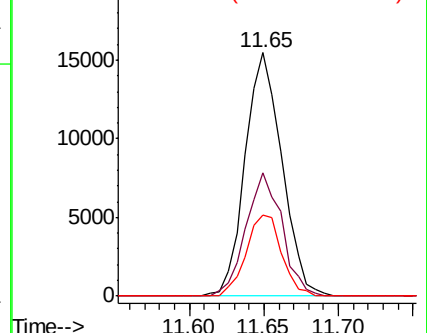
119 33.3 24.9 37.3

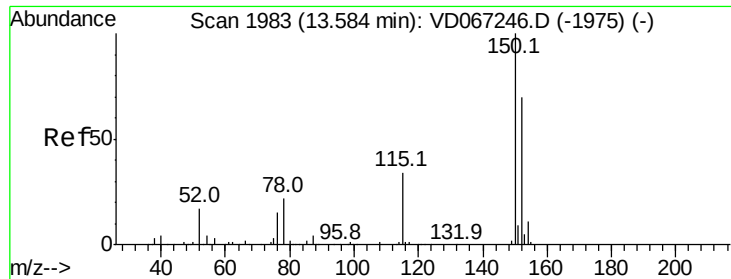


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



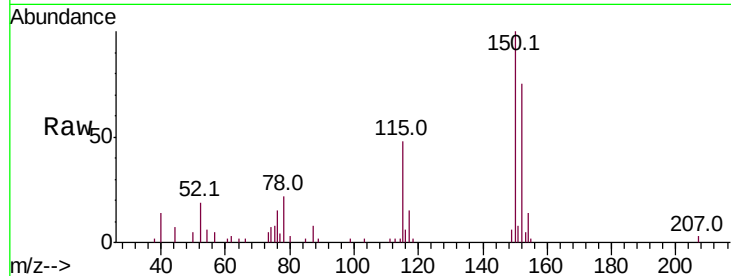


#72

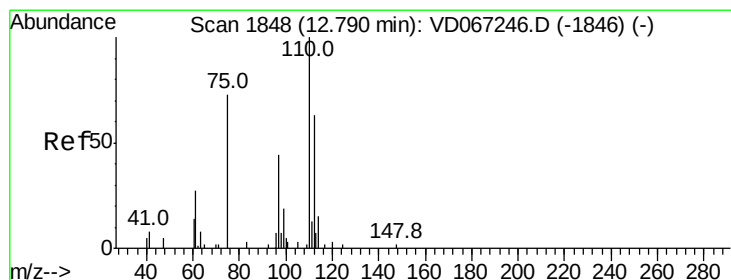
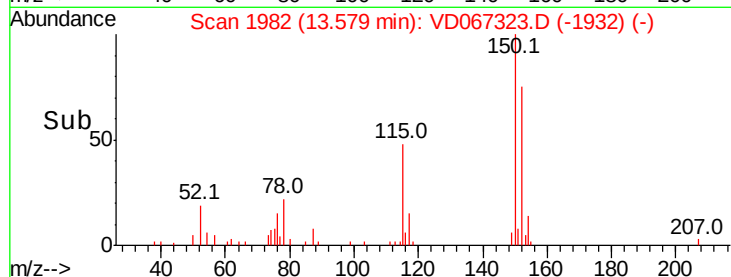
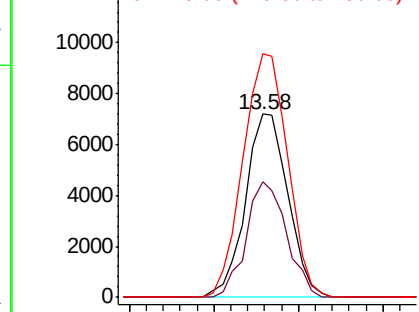
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067323.D
Acq: 20 Oct 2020 14:50

Instrument :
MSVOA_D
ClientSampleId :
34B

Tot Ion:152 Resp: 12604
Ion Ratio Lower Upper
152 100
115 59.6 29.3 87.9
150 139.3 0.0 339.0



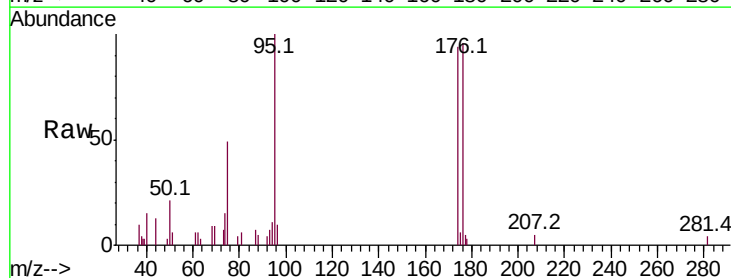
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



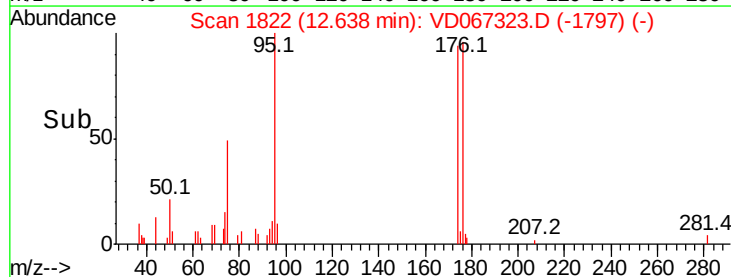
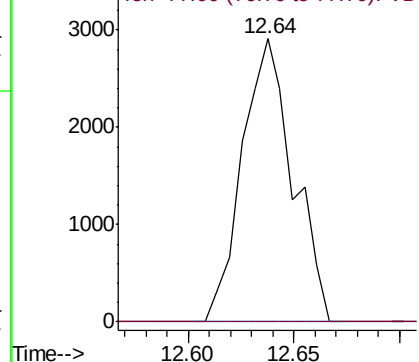
#76

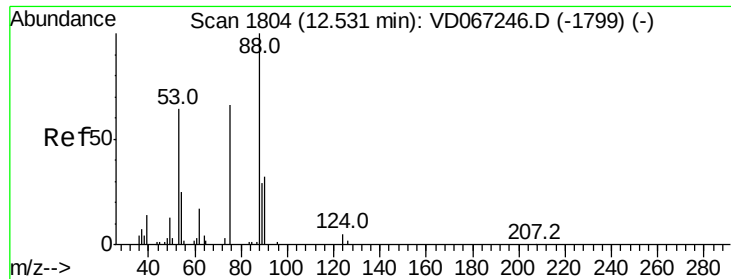
1,2,3-Trichloropropane
Concen: 55.805 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD067323.D
Acq: 20 Oct 2020 14:50

Tgt Ion: 75 Resp: 4875
Ion Ratio Lower Upper
75 100
77 0.0 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: 126.549 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067323.D

Acq: 20 Oct 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

34B

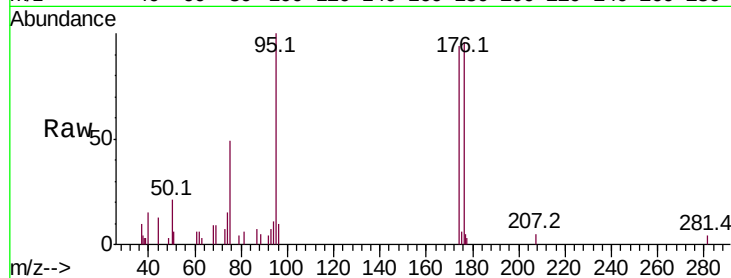
Tot Ion: 75 Resp: 4875

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

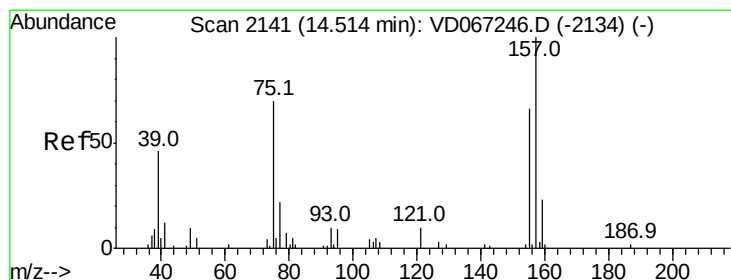
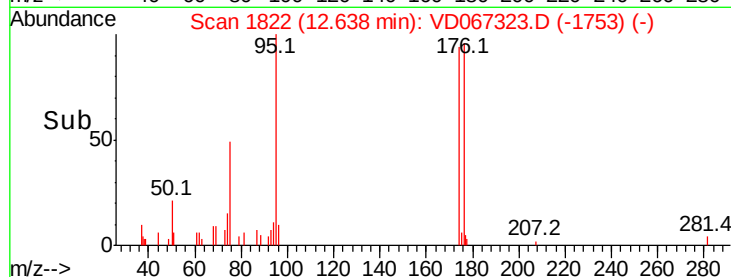
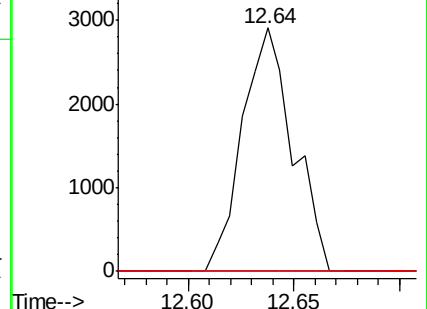
89 0.0 39.9 59.9#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.784 ug/l

RT: 14.61 min Scan# 2157

Delta R.T. 0.09 min

Lab File: VD067323.D

Acq: 20 Oct 2020 14:50

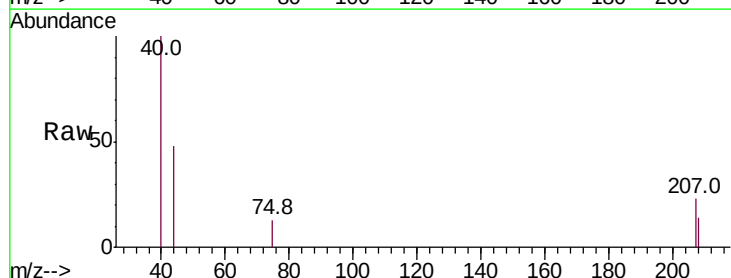
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

157 0.0 62.5 187.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

