

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101119\
 Data File : VD063942.D
 Acq On : 11 Oct 2019 17:36
 Operator : VA/SY
 Sample : K5325-08
 Misc : 7.07G/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 12 01:38:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	132604	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	241347	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	233454	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	108343	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	77758	60.23	ug/l	0.00
Spiked Amount			Recovery	=	120.46%	
35) Dibromofluoromethane	7.91	113	74788	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
50) Toluene-d8	10.34	98	309509	51.70	ug/l	0.00
Spiked Amount			Recovery	=	103.40%	
62) 4-Bromofluorobenzene	12.63	95	92030	44.24	ug/l	0.00
Spiked Amount			Recovery	=	88.48%	

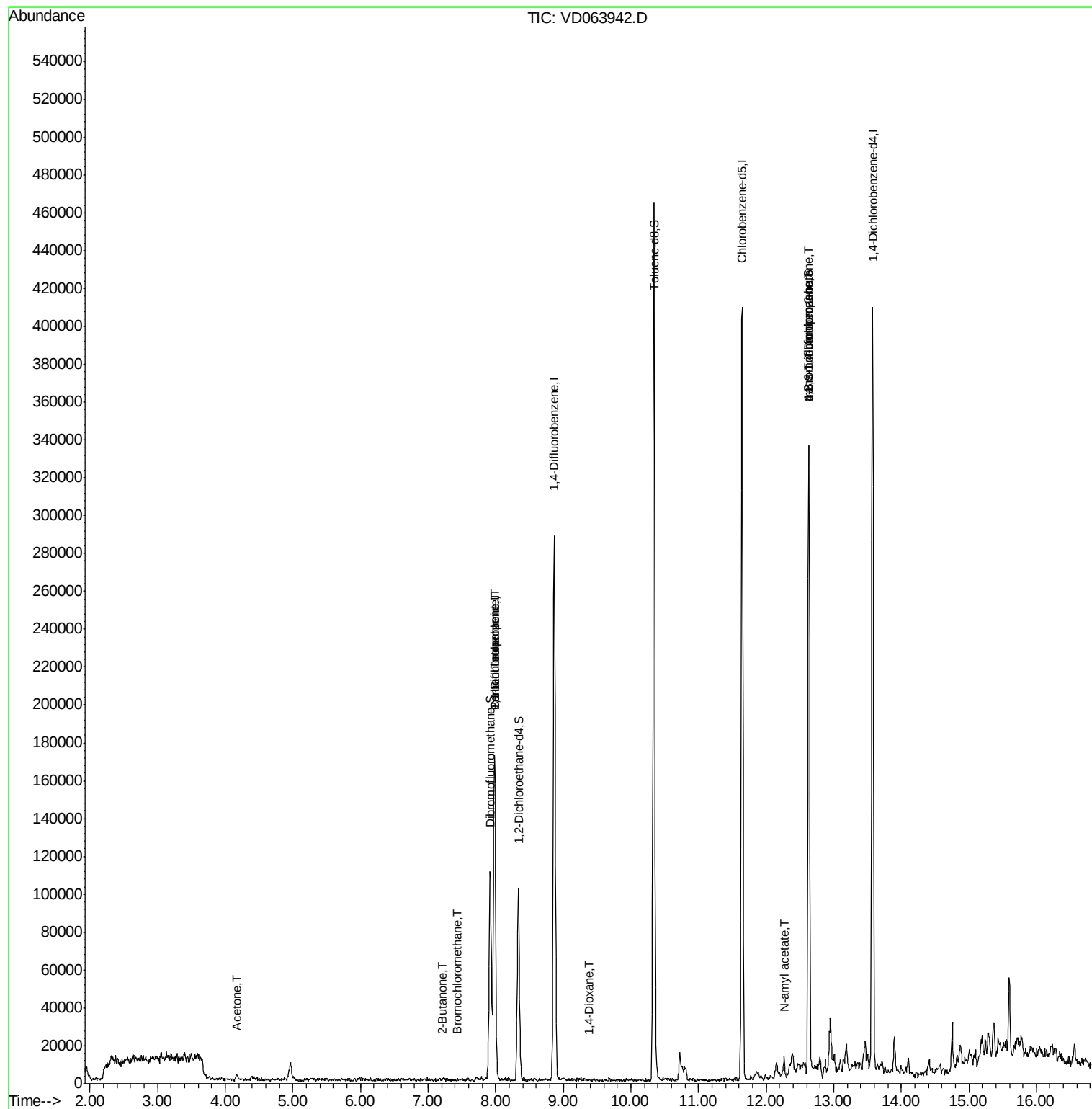
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	686	Below Cal	#	40
11) Tert butyl alcohol	5.27	59	66	Below Cal	#	71
16) Acetone	4.17	43	3174	9.443	ug/l #	74
25) 2-Butanone	7.22	43	627	1.574	ug/l #	51
28) Bromochloromethane	7.44	49	54	1.923	ug/l #	10
31) Cyclohexane	7.97	56	3519	Below Cal	#	50
36) 1,1-Dichloropropene	7.98	75	10041	4.550	ug/l #	53
37) Ethyl Acetate	7.29	43	280	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	12507	5.609	ug/l #	20
49) 1,4-Dioxane	9.38	88	58	4.820	ug/l #	24
74) N-amyl acetate	12.27	43	2324	1.482	ug/l #	71
76) 1,2,3-Trichloropropane	12.63	75	50538	69.645	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	50538	123.244	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.59	75	68	Below Cal	#	1

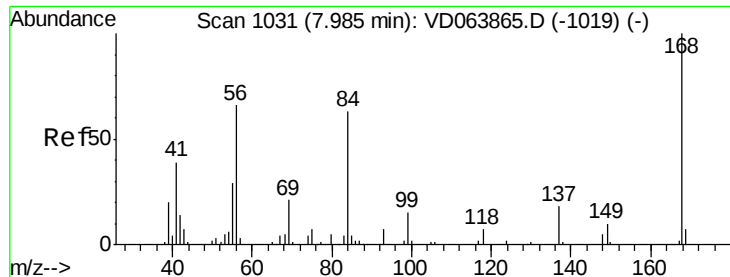
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063942.D

Acq: 11 Oct 2019 17:36

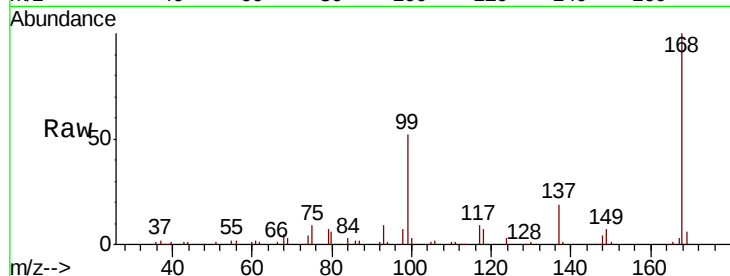
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 132604

Ion Ratio Lower Upper

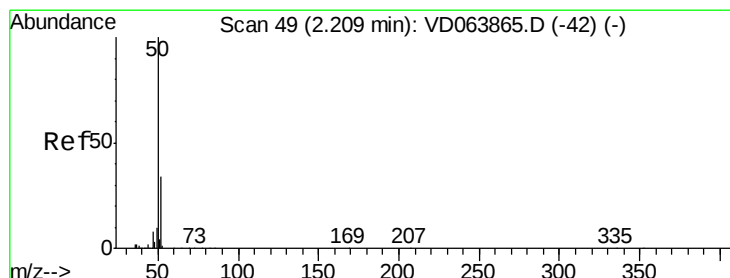
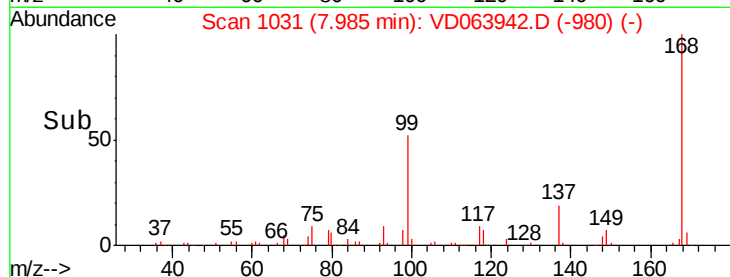
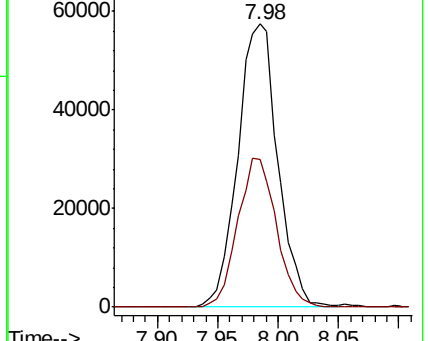
168 100

99 52.1 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063942.D

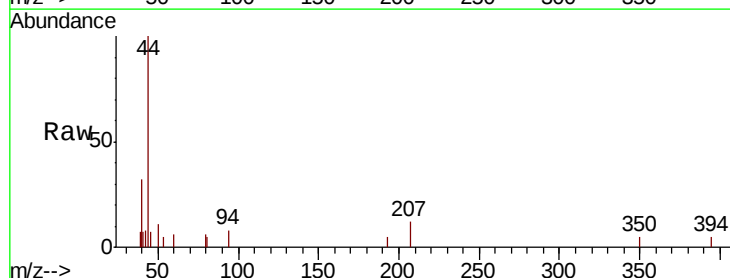
Acq: 11 Oct 2019 17:36

Tgt Ion: 50 Resp: 686

Ion Ratio Lower Upper

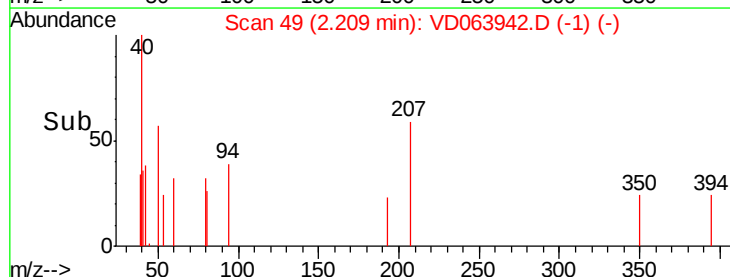
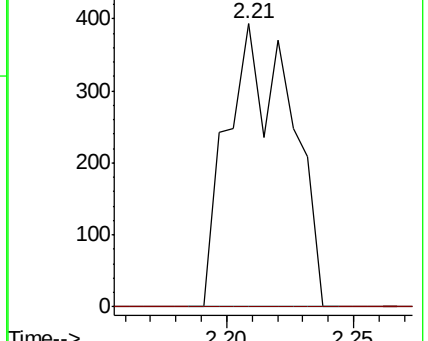
50 100

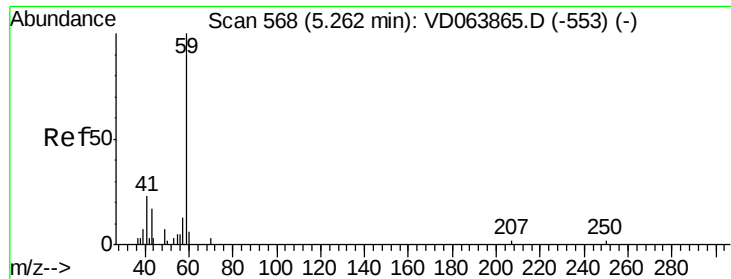
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



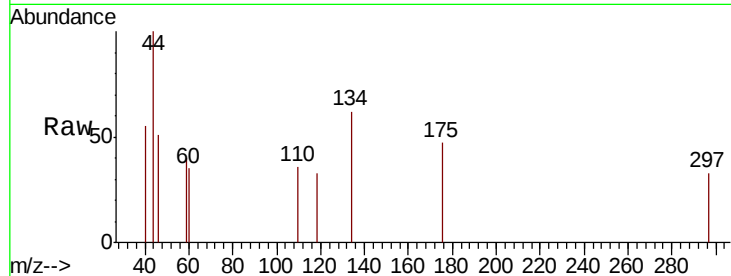


#11

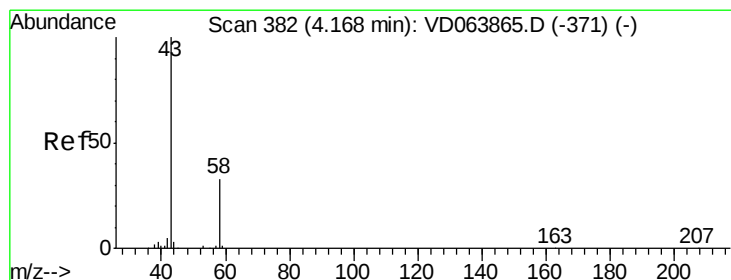
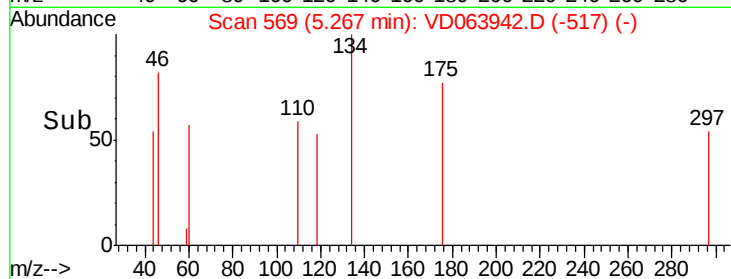
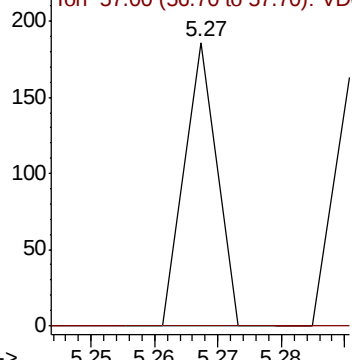
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.27 min Scan# 569
 Delta R.T. 0.01 min
 Lab File: VD063942.D
 Acq: 11 Oct 2019 17:36

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 59 Resp: 66
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#



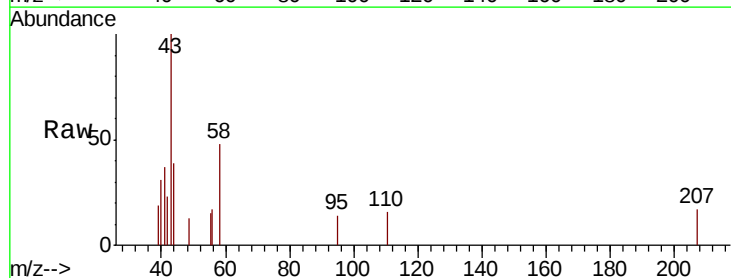
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



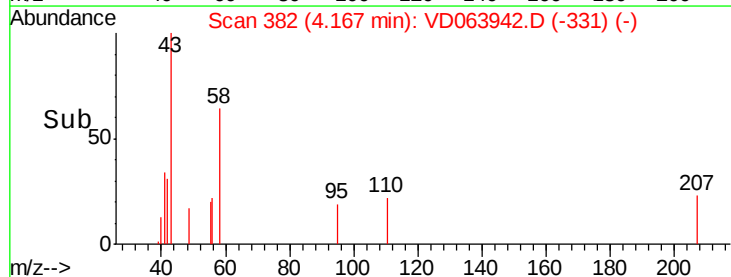
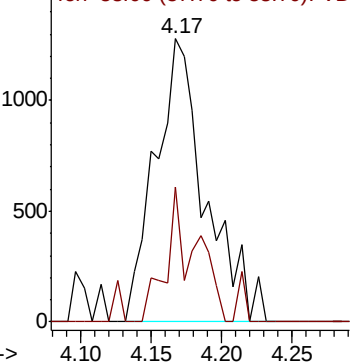
#16

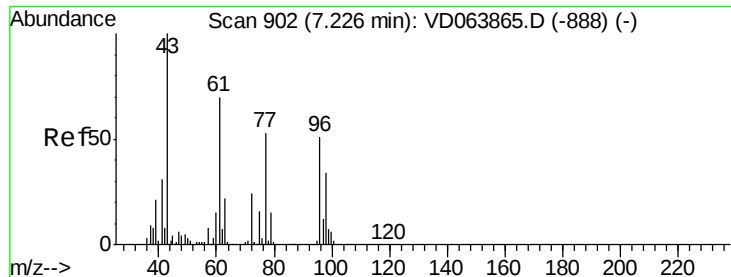
Acetone
 Concen: 9.443 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. -0.00 min
 Lab File: VD063942.D
 Acq: 11 Oct 2019 17:36

Tgt Ion: 43 Resp: 3174
 Ion Ratio Lower Upper
 43 100
 58 47.7 26.2 39.4#



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





#25

2-Butanone

Concen: 1.574 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD063942.D

Acq: 11 Oct 2019 17:36

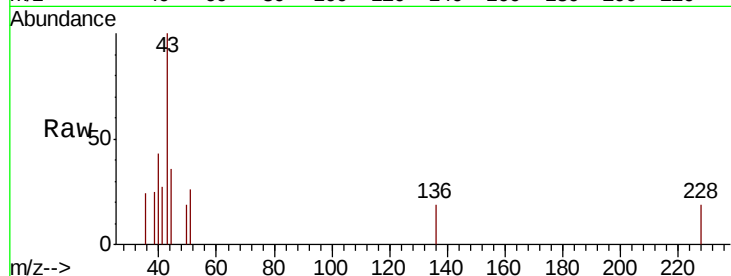
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 627

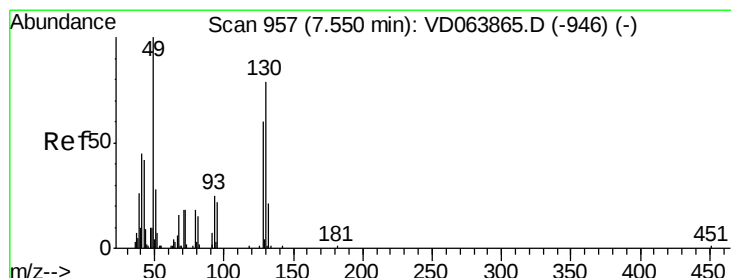
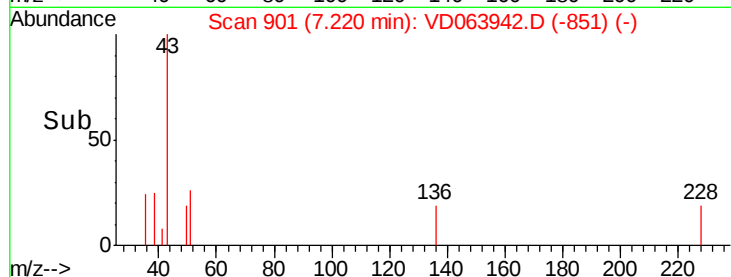
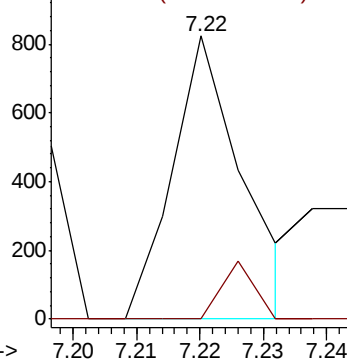
Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC



#28

Bromochloromethane

Concen: 1.923 ug/l

RT: 7.44 min Scan# 938

Delta R.T. -0.11 min

Lab File: VD063942.D

Acq: 11 Oct 2019 17:36

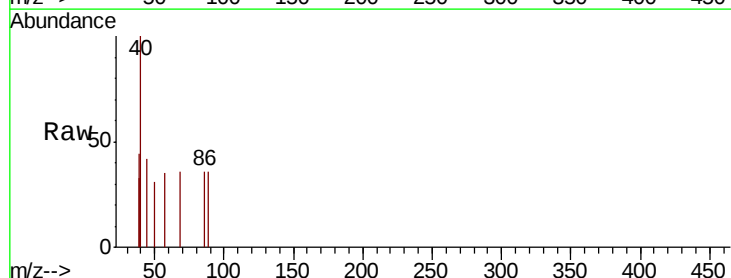
Tgt Ion: 49 Resp: 54

Ion Ratio Lower Upper

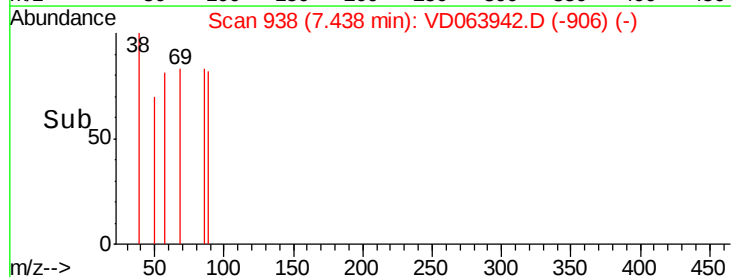
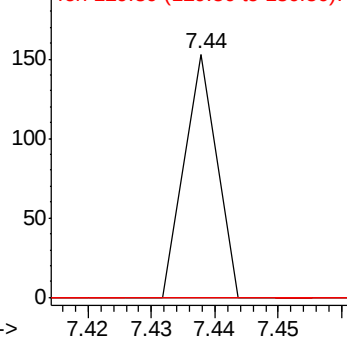
49 100

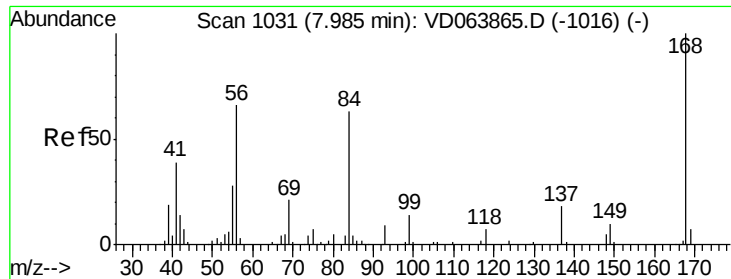
129 0.0 0.0 5.6

130 0.0 66.8 100.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

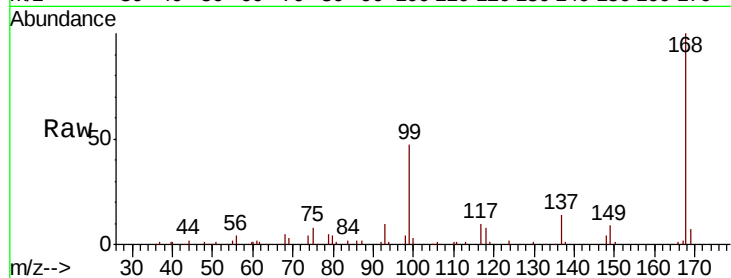




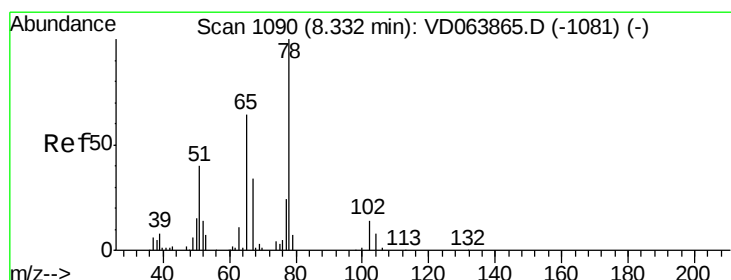
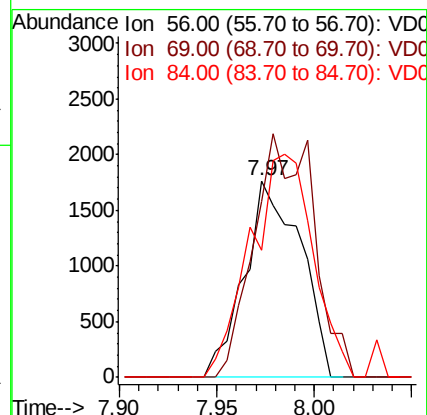
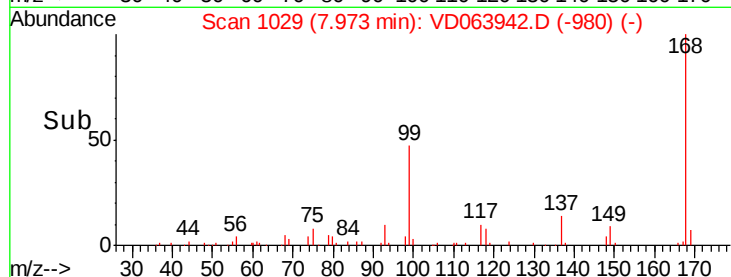
#31
Cyclohexane
Concen: Below Cal
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD063942.D
Acq: 11 Oct 2019 17:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 3519
Ion Ratio Lower Upper
56 100
69 89.6 25.0 37.4#
84 64.9 76.3 114.5#

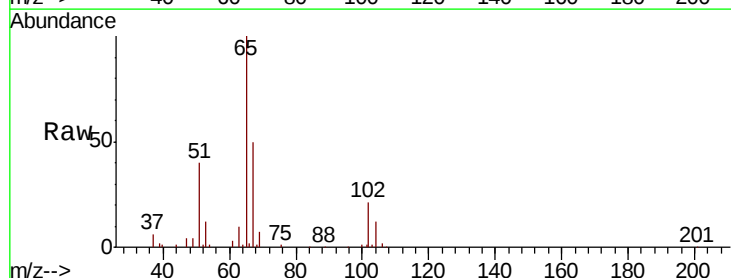


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

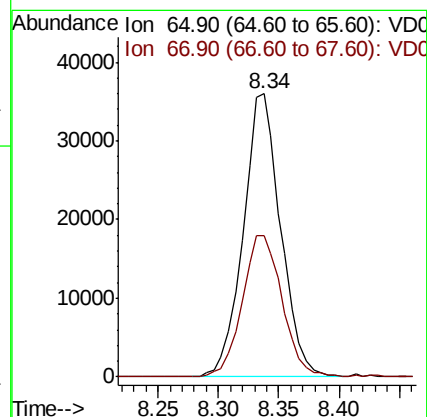
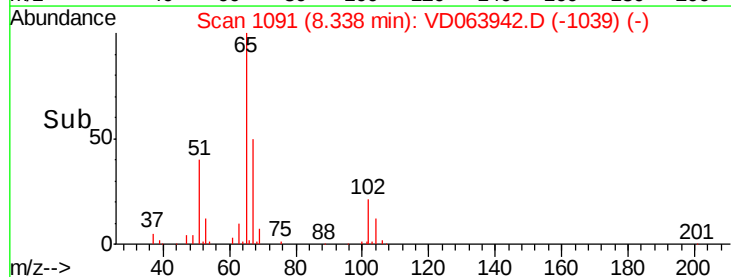


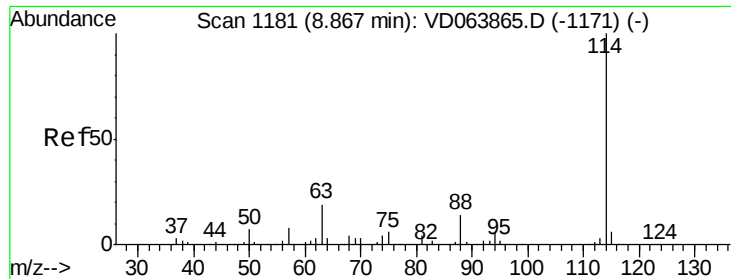
#33
1,2-Dichloroethane-d4
Concen: 60.231 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD063942.D
Acq: 11 Oct 2019 17:36

Tgt Ion: 65 Resp: 77758
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.4



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

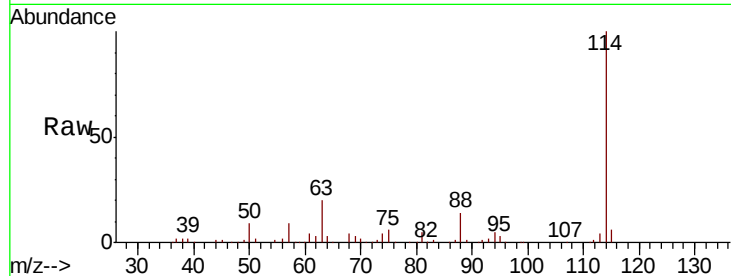




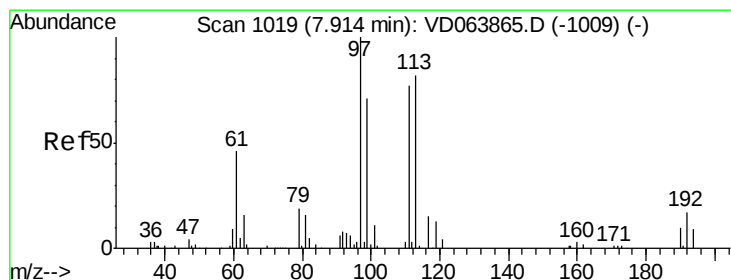
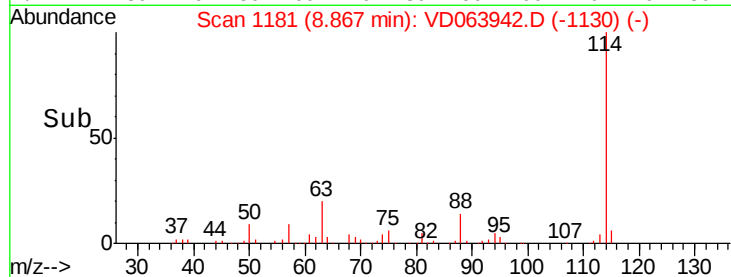
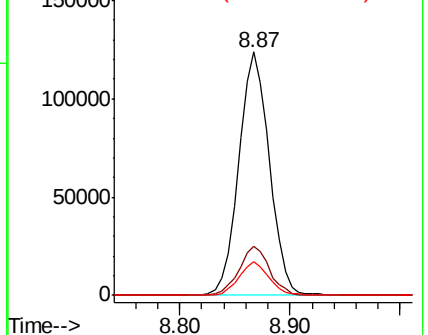
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD063942.D
Acq: 11 Oct 2019 17:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:114 Resp: 241347
Ion Ratio Lower Upper
114 100
63 19.9 0.0 38.4
88 13.8 0.0 27.4

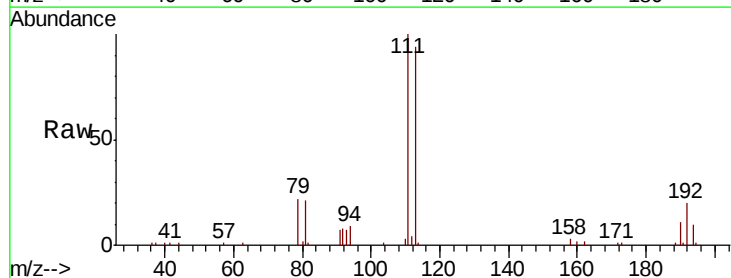


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

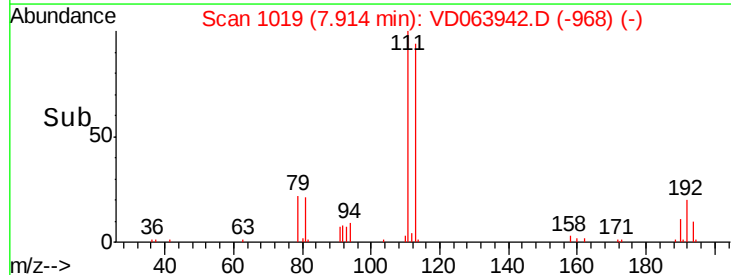
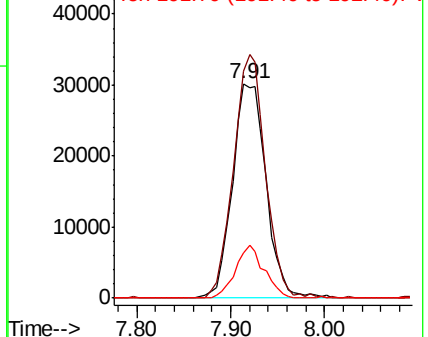


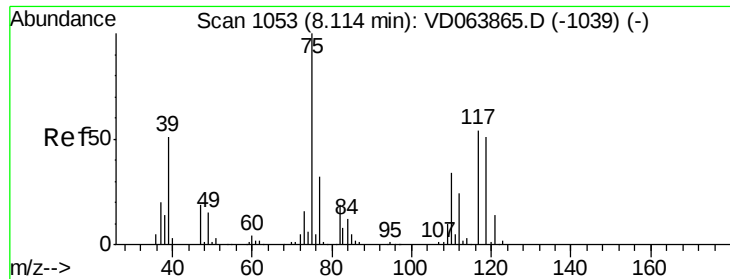
#35
Dibromofluoromethane
Concen: 50.706 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VD063942.D
Acq: 11 Oct 2019 17:36

Tgt Ion:113 Resp: 74788
Ion Ratio Lower Upper
113 100
111 107.8 82.6 123.8
192 21.0 17.1 25.7



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

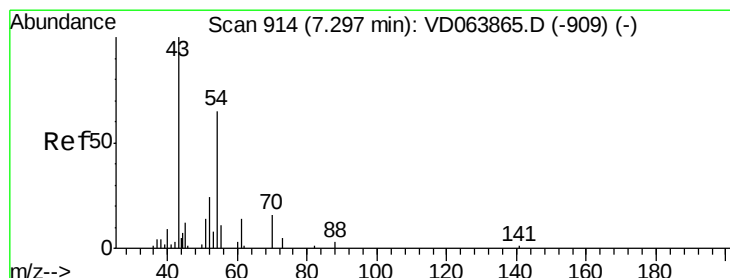
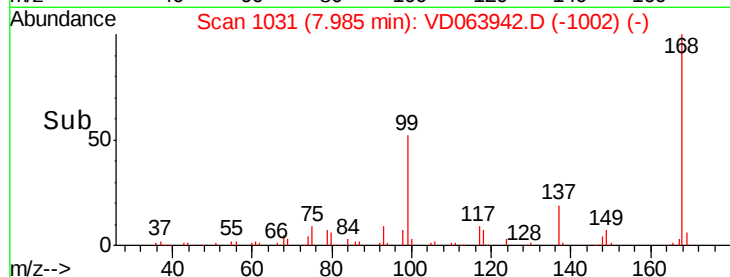
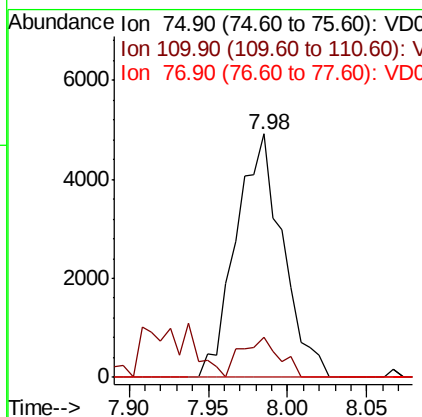
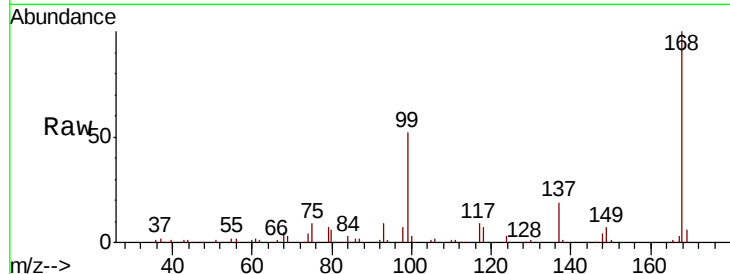




#36
 1,1-Dichloropropene
 Concen: 4.550 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD063942.D
 Acq: 11 Oct 2019 17:36

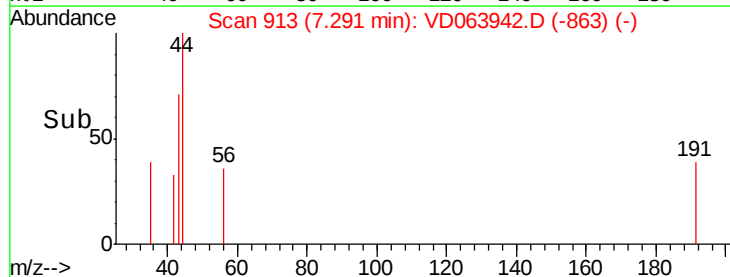
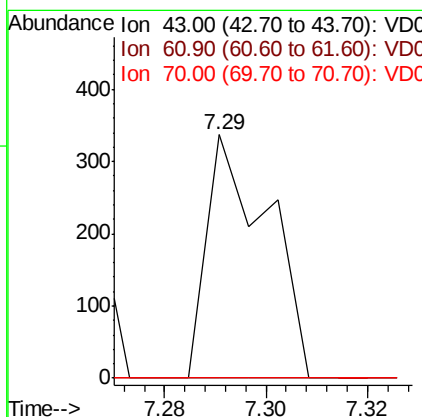
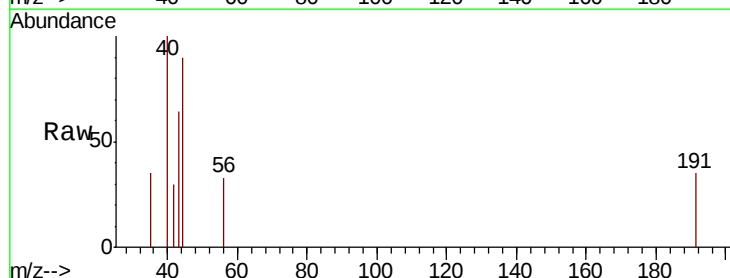
Instrument :
 MSVOA_D
 ClientSampleId :

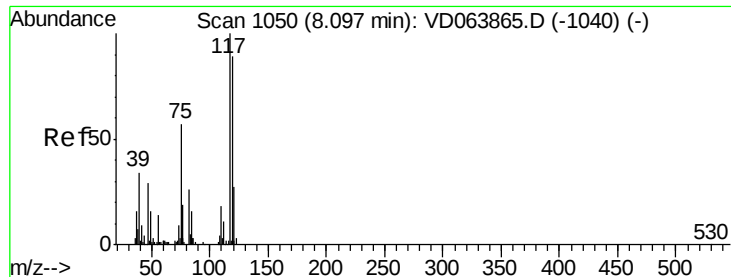
Tot Ion: 75 Resp: 10041
 Ion Ratio Lower Upper
 75 100
 110 13.4 17.4 52.3#
 77 0.0 25.4 38.0#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.29 min Scan# 913
 Delta R.T. -0.01 min
 Lab File: VD063942.D
 Acq: 11 Oct 2019 17:36

Tgt Ion: 43 Resp: 280
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 0.0 8.2 12.4#





#38

Carbon Tetrachloride

Concen: 5.609 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD063942.D

Acq: 11 Oct 2019 17:36

Instrument :

MSVOA_D

ClientSampleId :

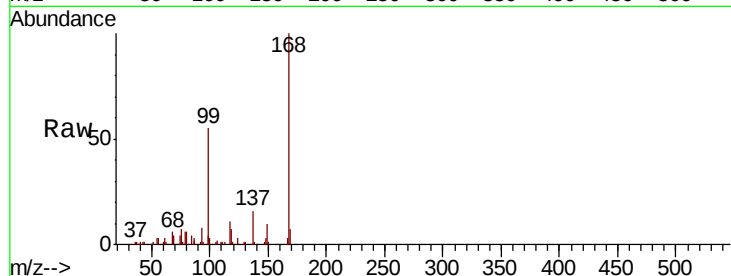
Tot Ion:117 Resp: 12507

Ion Ratio Lower Upper

117 100

119 5.8 70.8 106.2#

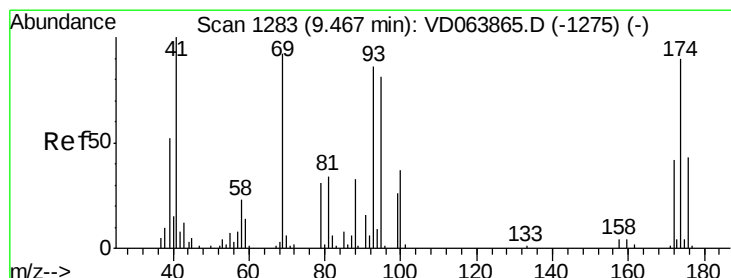
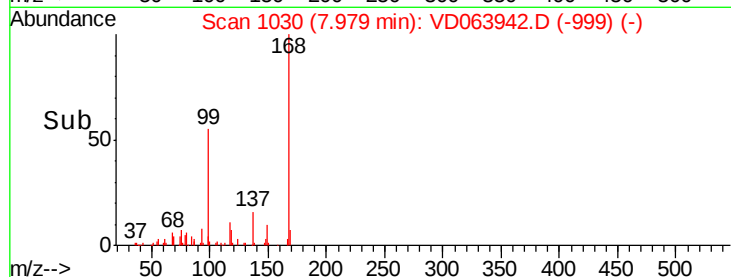
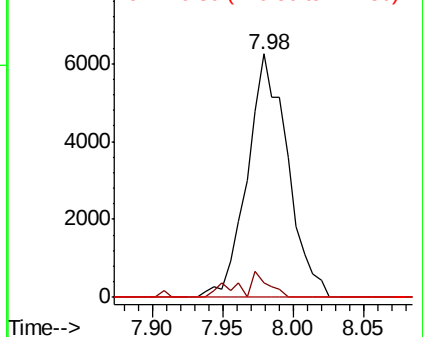
121 0.0 21.4 32.0#



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



#49

1,4-Dioxane

Concen: 4.820 ug/l

RT: 9.38 min Scan# 1269

Delta R.T. -0.08 min

Lab File: VD063942.D

Acq: 11 Oct 2019 17:36

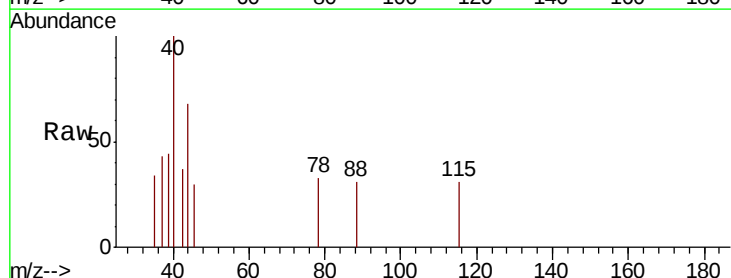
Tgt Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 0.0 27.6 41.4#

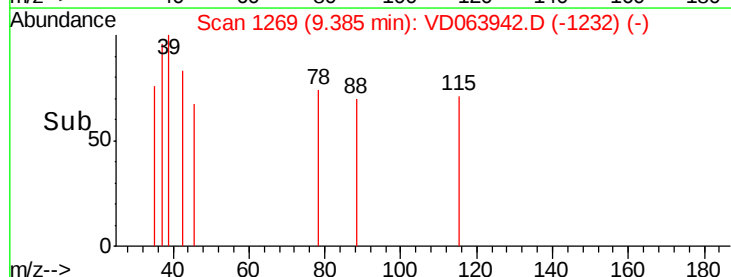
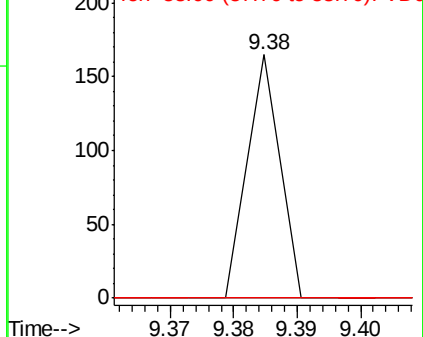
58 0.0 54.1 81.1#

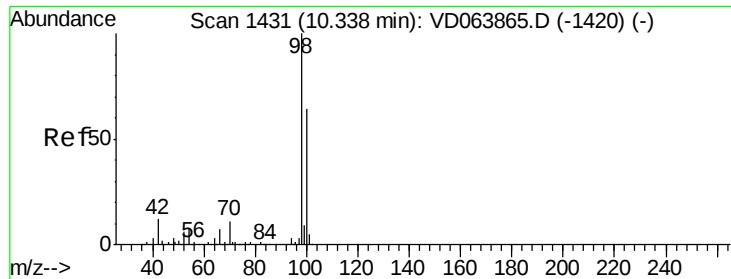


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#50

Toluene-d8

Concen: 51.701 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD063942.D

Acq: 11 Oct 2019 17:36

Instrument :

MSVOA_D

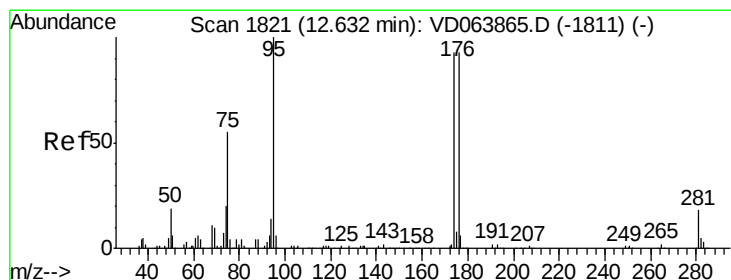
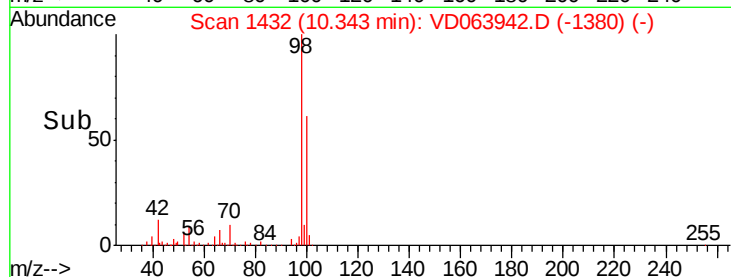
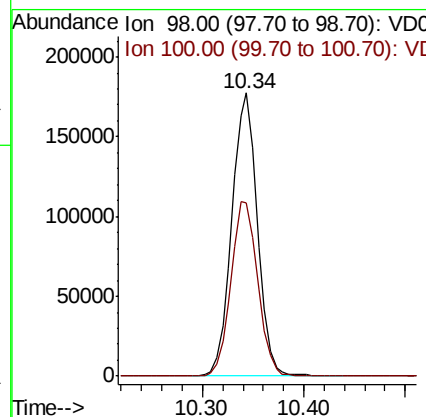
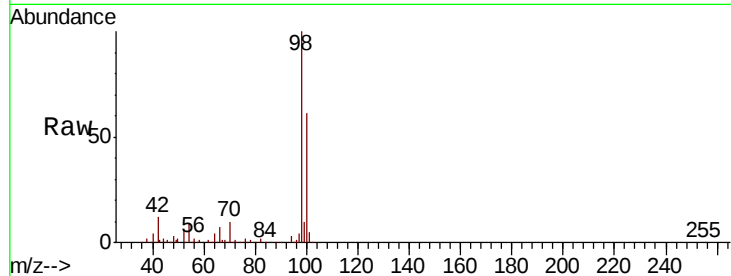
ClientSampleId :

Tot Ion: 98 Resp: 309509

Ion Ratio Lower Upper

98 100

100 64.8 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 44.238 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD063942.D

Acq: 11 Oct 2019 17:36

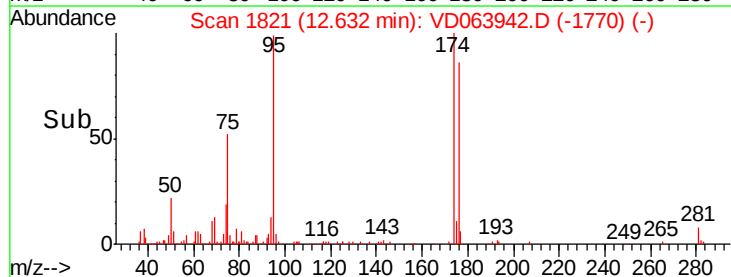
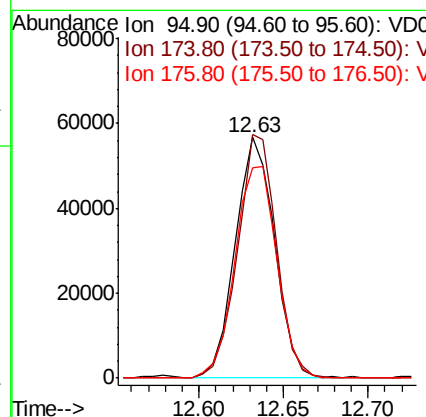
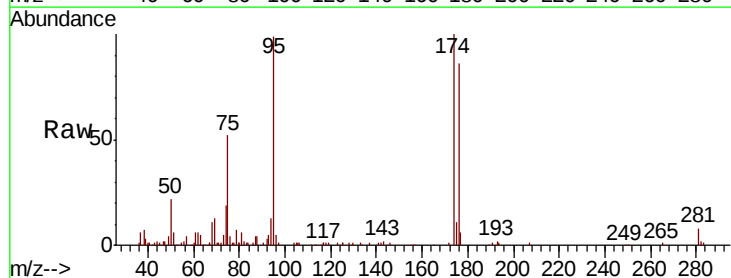
Tgt Ion: 95 Resp: 92030

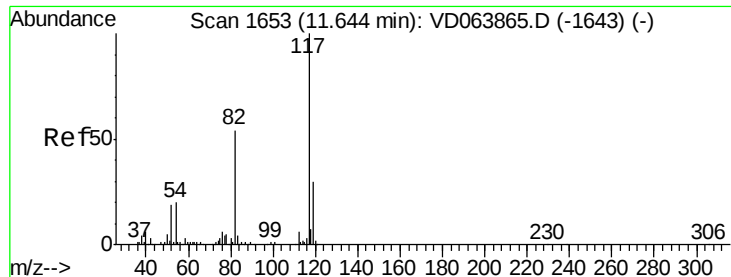
Ion Ratio Lower Upper

95 100

174 99.8 0.0 186.4

176 93.9 0.0 184.2

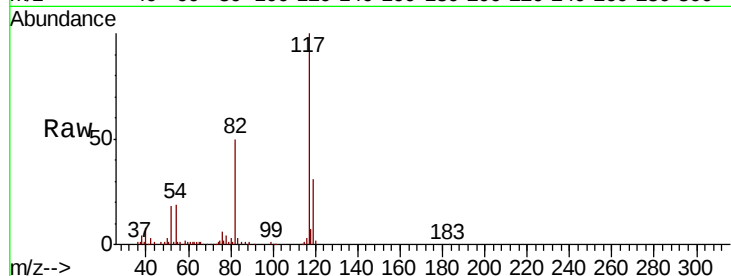




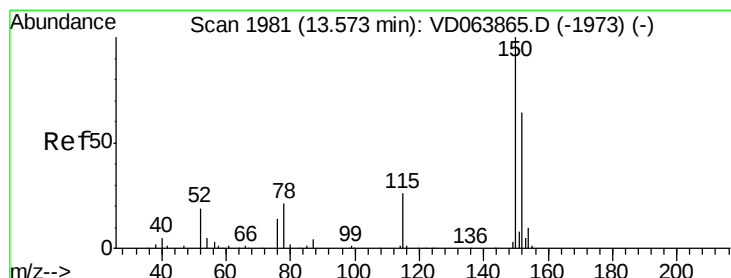
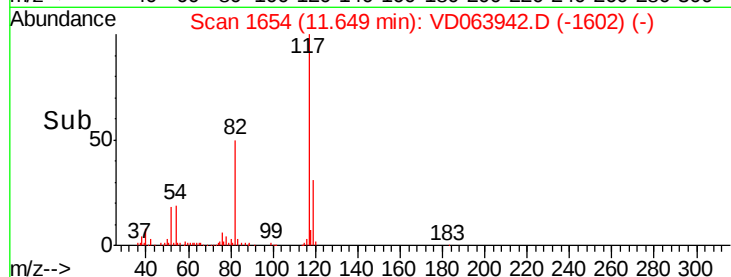
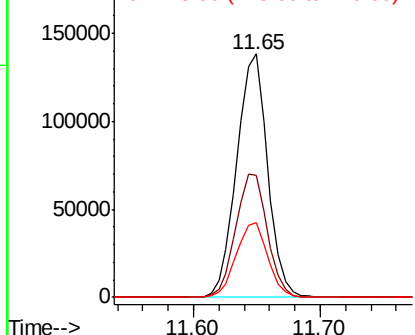
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD063942.D
Acq: 11 Oct 2019 17:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.4	42.8	64.2
119	30.6	24.4	36.6

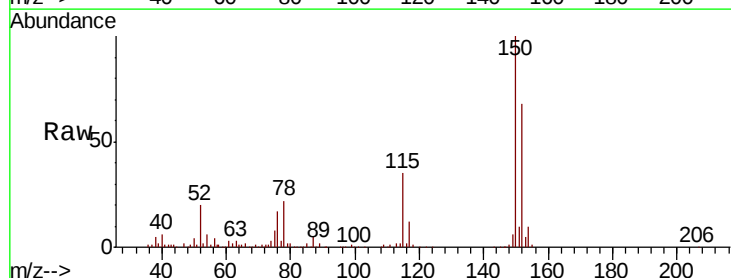


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

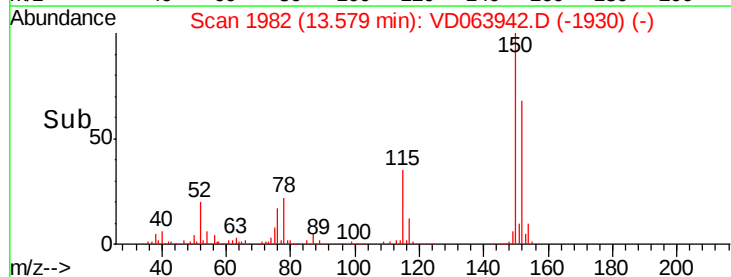
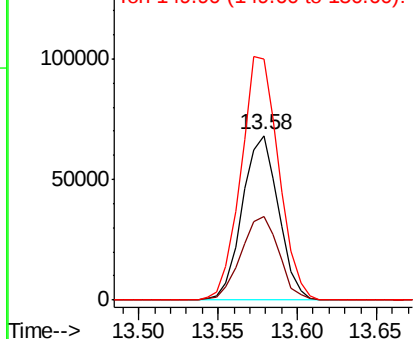


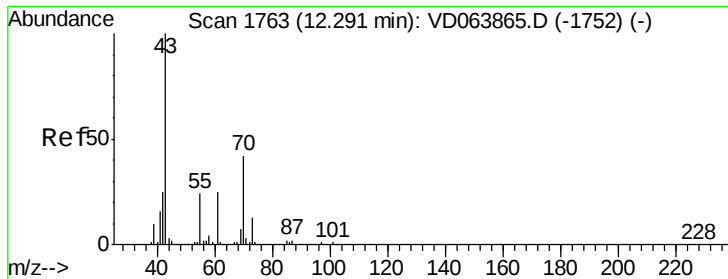
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063942.D
Acq: 11 Oct 2019 17:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.5	25.9	77.7
150	154.0	0.0	344.2



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-amvl acetate

Concen: 1.482 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.02 min

Lab File: VD063942.D

Acq: 11 Oct 2019 17:36

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 2324

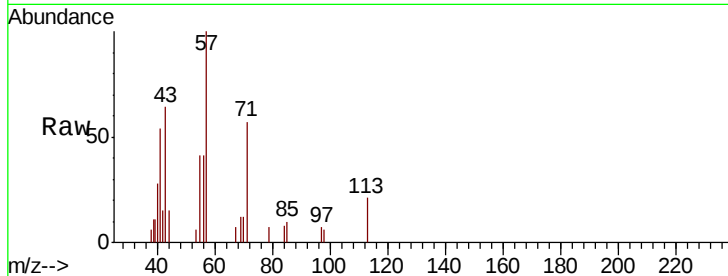
Ion Ratio Lower Upper

43 100

70 27.2 35.8 53.6#

55 18.8 19.4 29.0#

61 0.0 20.4 30.6#

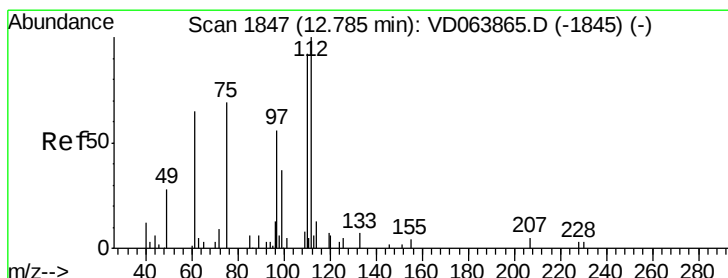
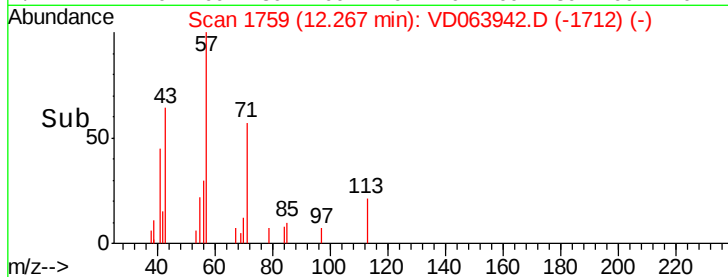
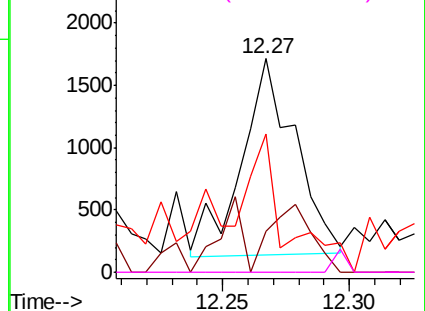


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 69.645 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063942.D

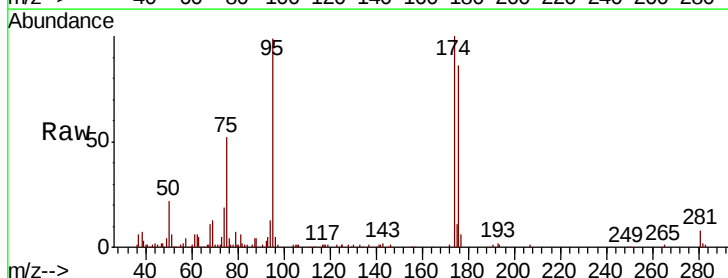
Acq: 11 Oct 2019 17:36

Tgt Ion: 75 Resp: 50538

Ion Ratio Lower Upper

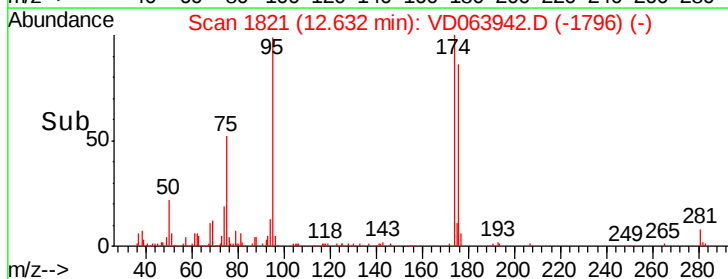
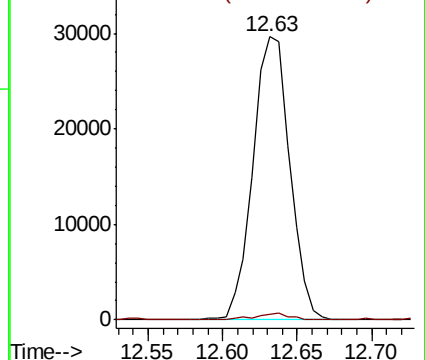
75 100

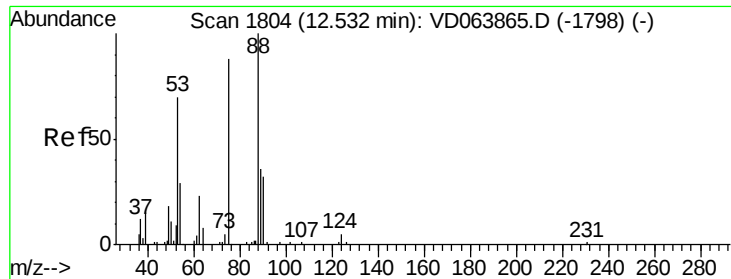
77 2.3 0.0 0.0#



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: 123.244 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063942.D

Acq: 11 Oct 2019 17:36

Instrument :

MSVOA_D

ClientSampleId :

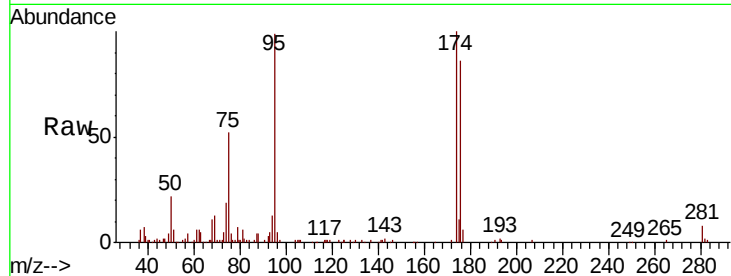
Tot Ion: 75 Resp: 50538

Ion Ratio Lower Upper

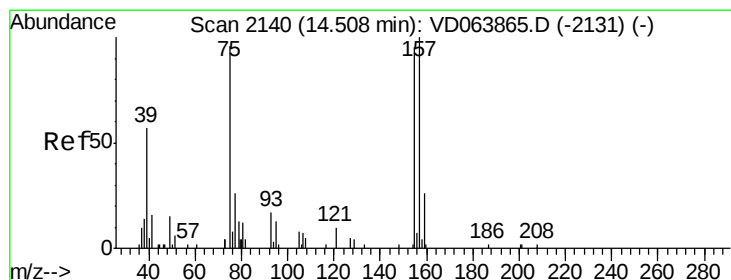
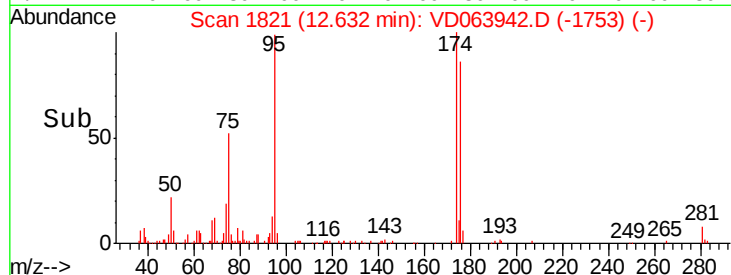
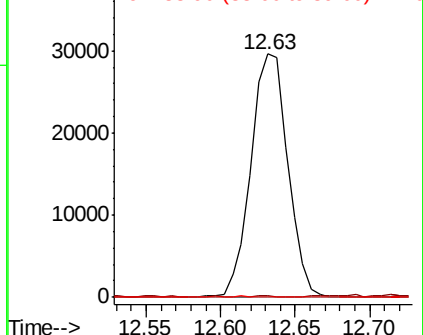
75 100

53 0.3 75.0 112.6#

89 0.2 38.2 57.4#



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: Below Cal

RT: 14.59 min Scan# 2154

Delta R.T. 0.08 min

Lab File: VD063942.D

Acq: 11 Oct 2019 17:36

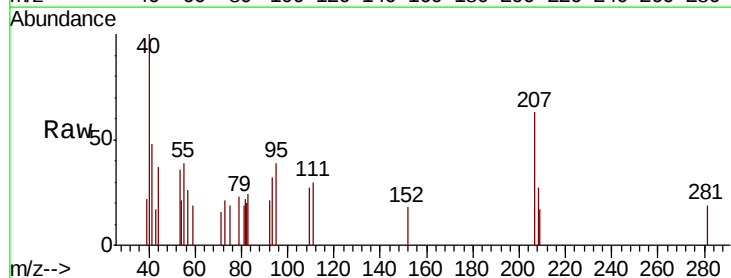
Tgt Ion: 75 Resp: 68

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#



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

