

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101619\
 Data File : VD063988.D
 Acq On : 16 Oct 2019 15:35
 Operator : VA/SY
 Sample : K5152-06RE
 Misc : 7.87G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SU-01-101519RE

Quant Time: Oct 16 18:08:59 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	118580	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	233569	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	245416	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	119140	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	83080	71.96	ug/l	0.00
Spiked Amount			Recovery	=	143.92%	
35) Dibromofluoromethane	7.92	113	74725	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	
50) Toluene-d8	10.34	98	313948	54.19	ug/l	0.00
Spiked Amount			Recovery	=	108.38%	
62) 4-Bromofluorobenzene	12.64	95	99856	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	

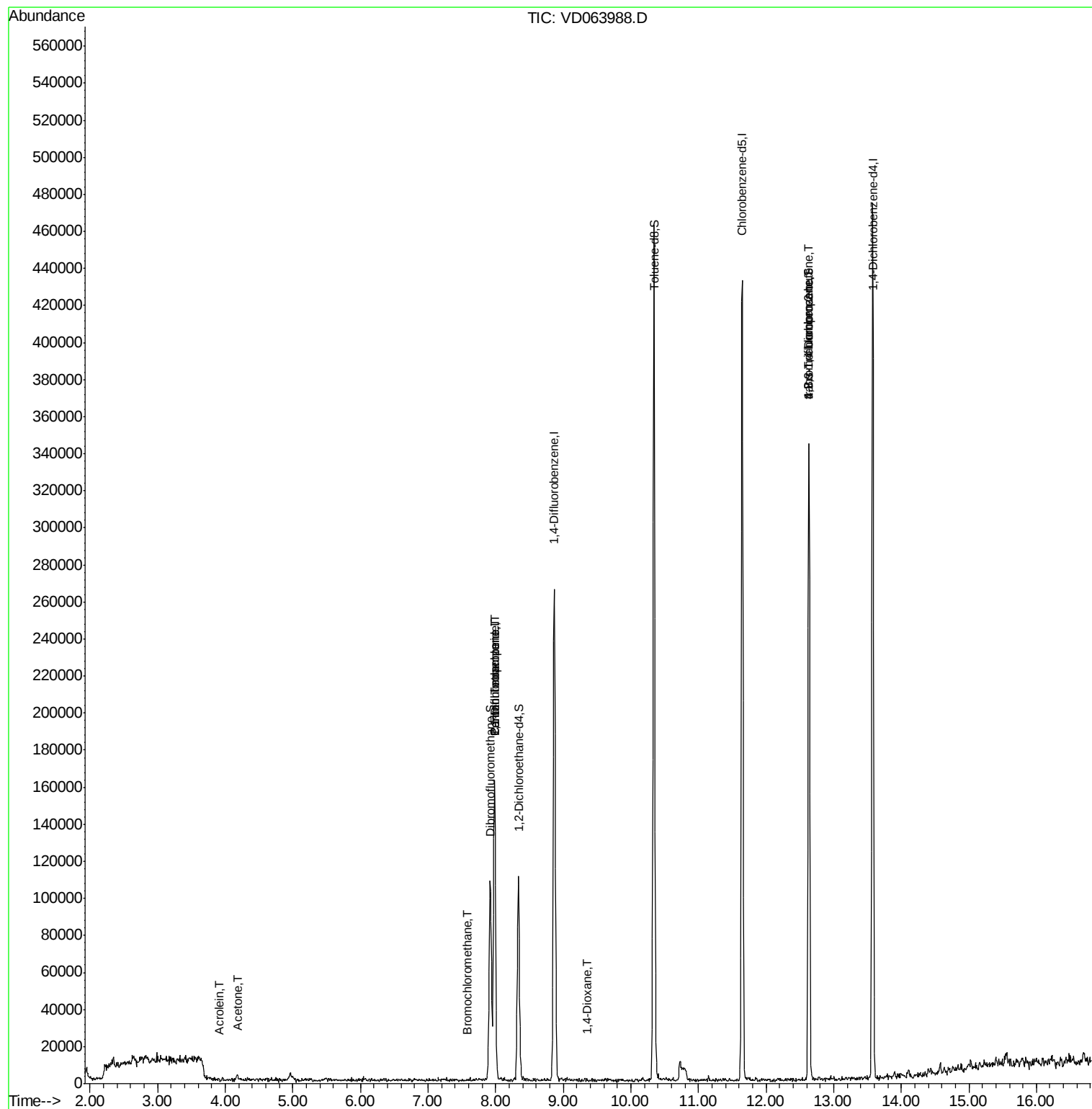
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	269	Below Cal	#	1
11) Tert butyl alcohol	5.27	59	67	Below Cal	#	1
13) Acrolein	3.91	56	110	1.067	ug/l #	17
16) Acetone	4.17	43	4023	13.385	ug/l	98
20) Methylene Chloride	4.96	84	1703	Below Cal	#	69
28) Bromochloromethane	7.58	49	66	1.945	ug/l #	10
31) Cyclohexane	7.98	56	3420	Below Cal	#	52
36) 1,1-Dichloropropene	7.98	75	10047	4.705	ug/l #	51
37) Ethyl Acetate	7.33	43	94	Below Cal	#	15
38) Carbon Tetrachloride	7.98	117	11268	5.221	ug/l #	20
49) 1,4-Dioxane	9.35	88	70	6.011	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	53379	66.894	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	53379	118.375	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.59	75	130	Below Cal	#	1

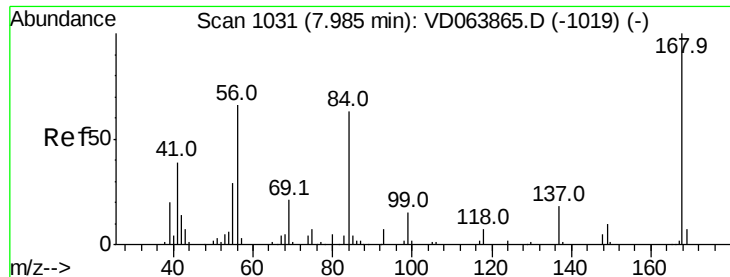
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD063988.D

Acq: 16 Oct 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

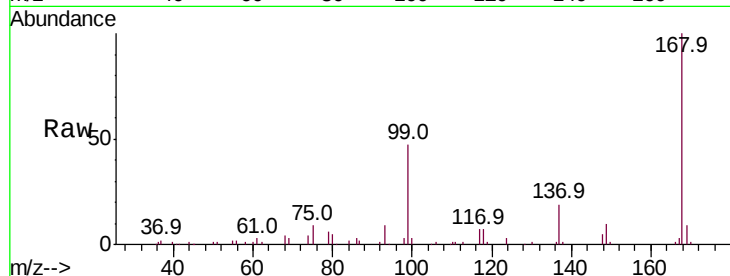
SU-01-101519RE

Tot Ion:168 Resp: 118580

Ion Ratio Lower Upper

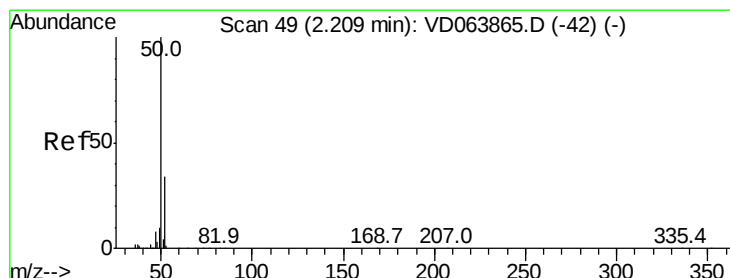
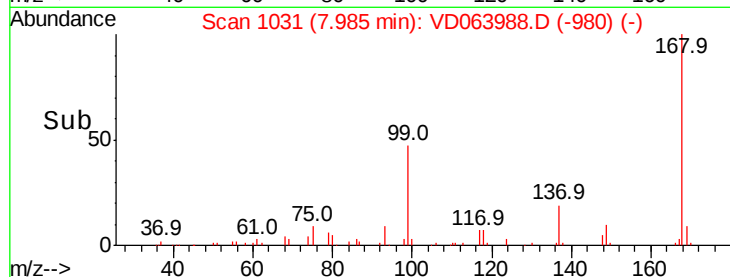
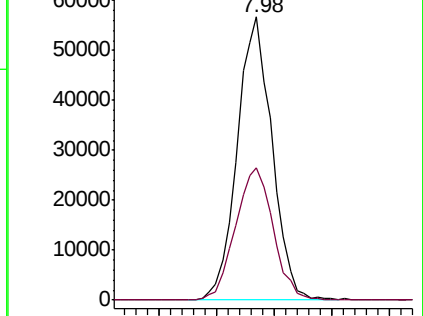
168 100

99 46.8 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: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD063988.D

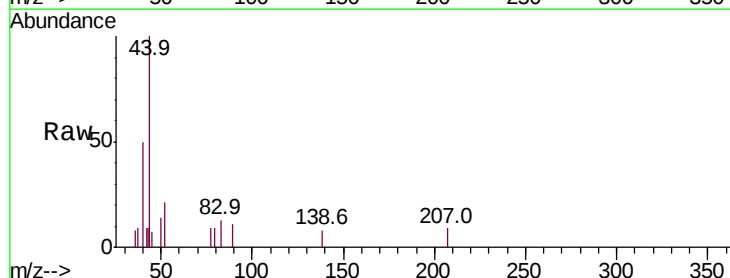
Acq: 16 Oct 2019 15:35

Tgt Ion: 50 Resp: 269

Ion Ratio Lower Upper

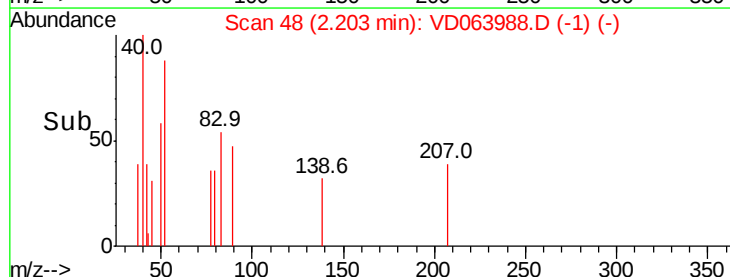
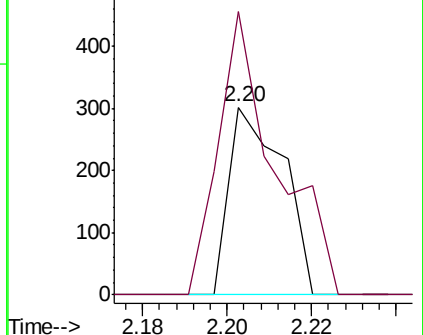
50 100

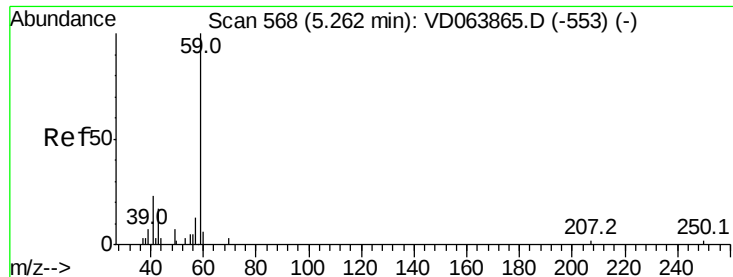
52 151.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



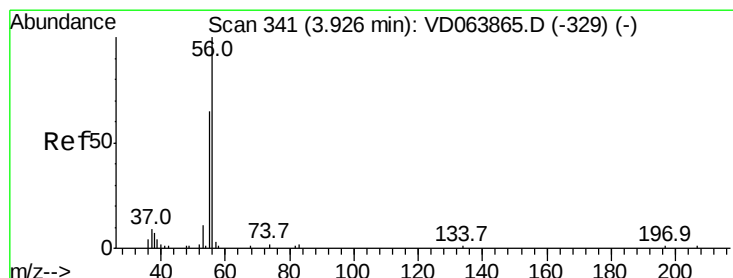
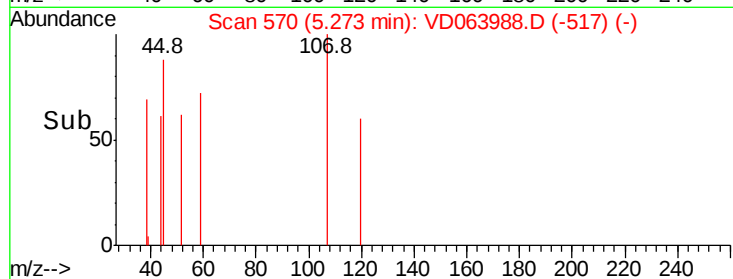
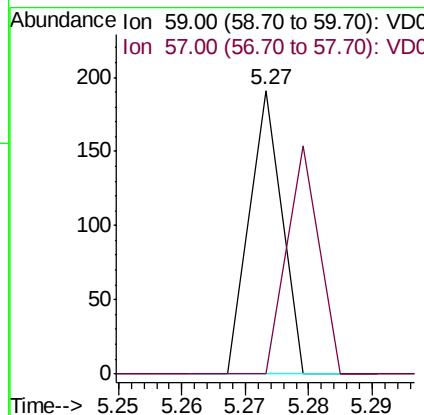
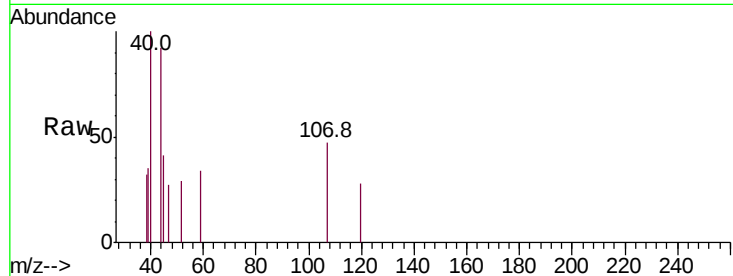


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.27 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VD063988.D
 Acq: 16 Oct 2019 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 SU-01-101519RE

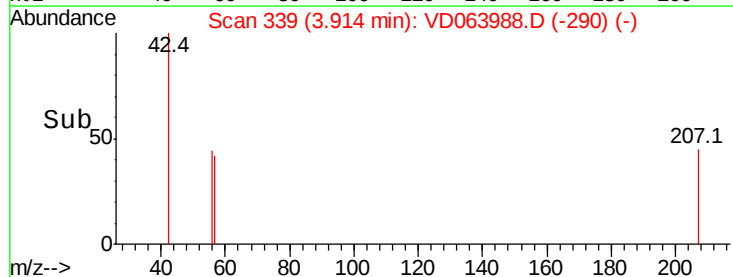
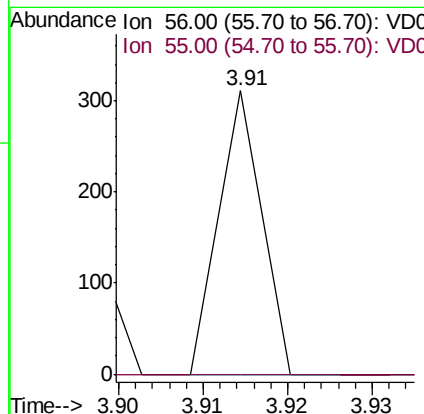
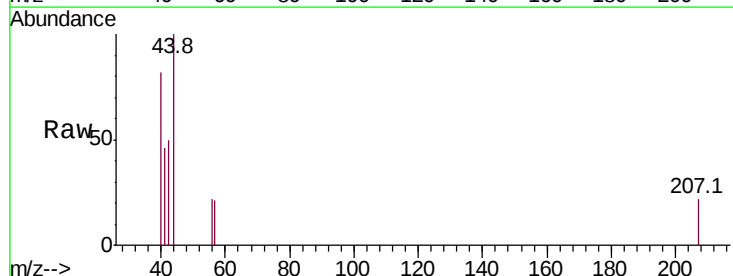
Tot Ion: 59 Resp: 67
 Ion Ratio Lower Upper
 59 100
 57 80.6 8.8 13.2#

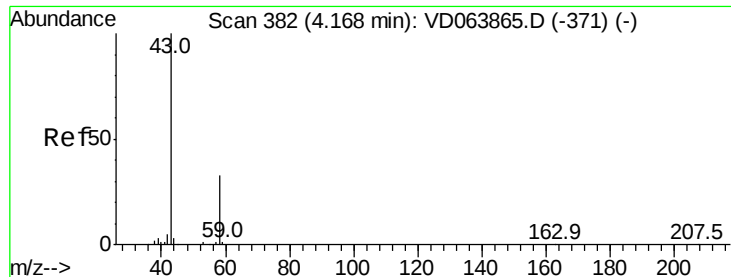


#13

Acrolein
 Concen: 1.067 ug/l
 RT: 3.91 min Scan# 339
 Delta R.T. -0.01 min
 Lab File: VD063988.D
 Acq: 16 Oct 2019 15:35

Tgt Ion: 56 Resp: 110
 Ion Ratio Lower Upper
 56 100
 55 0.0 53.0 79.6#





#16

Acetone

Concen: 13.385 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD063988.D

Acq: 16 Oct 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

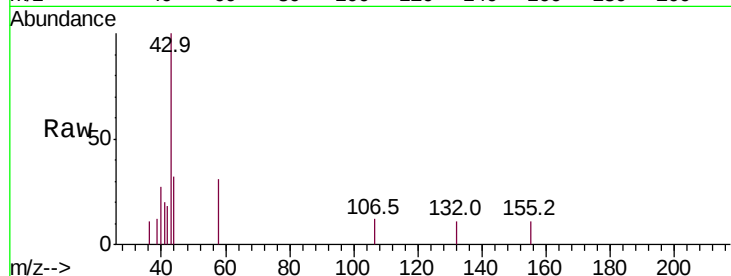
SU-01-101519RE

Tot Ion: 43 Resp: 4023

Ion Ratio Lower Upper

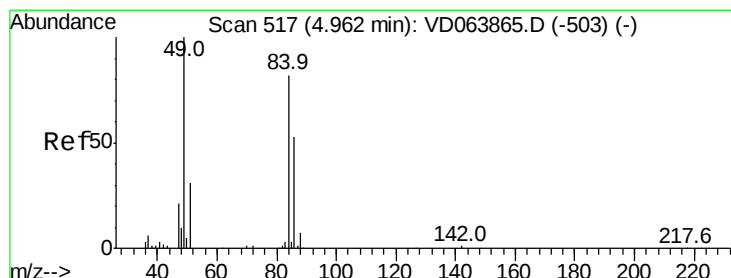
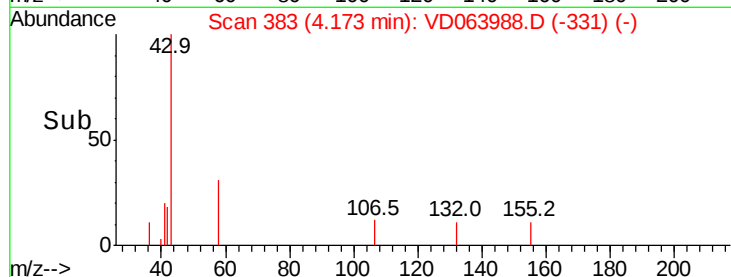
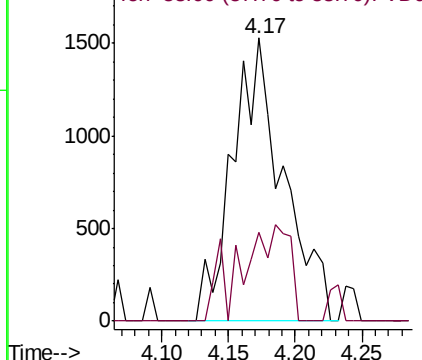
43 100

58 31.4 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD063988.D

Acq: 16 Oct 2019 15:35

Tgt Ion: 84 Resp: 1703

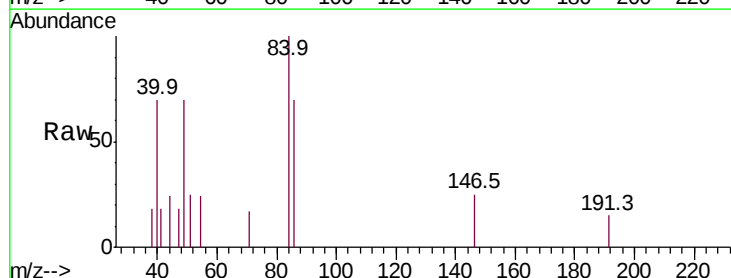
Ion Ratio Lower Upper

84 100

49 70.3 97.3 145.9#

51 25.0 30.1 45.1#

86 69.9 51.4 77.2

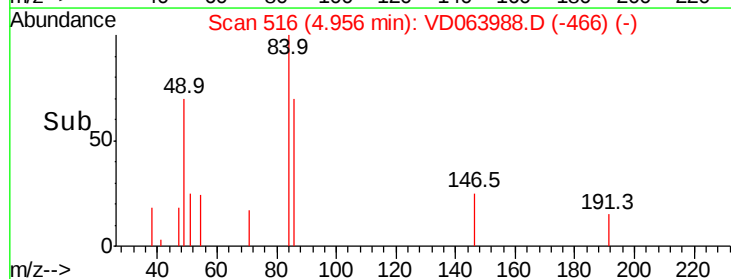
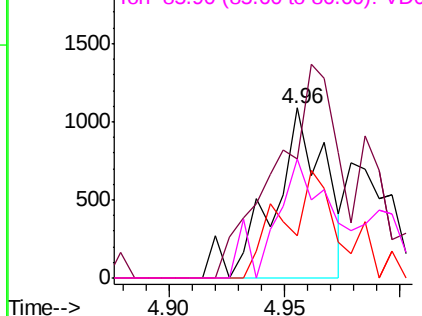


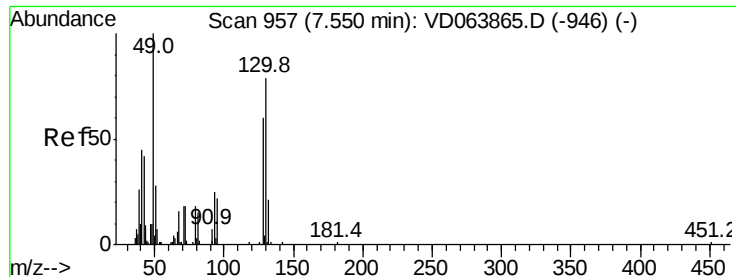
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#28

Bromochloromethane

Concen: 1.945 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.03 min

Lab File: VD063988.D

Acq: 16 Oct 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

SU-01-101519RE

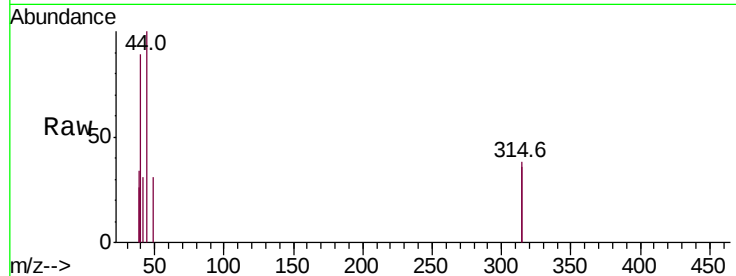
Tot Ion: 49 Resp: 66

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

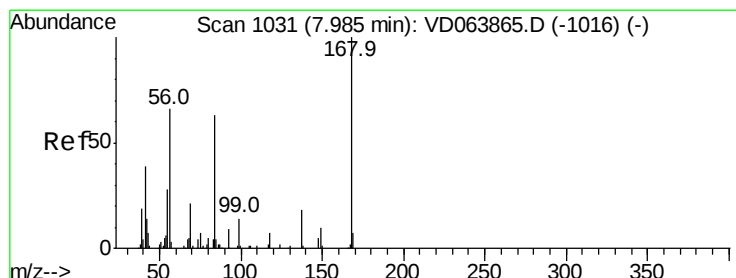
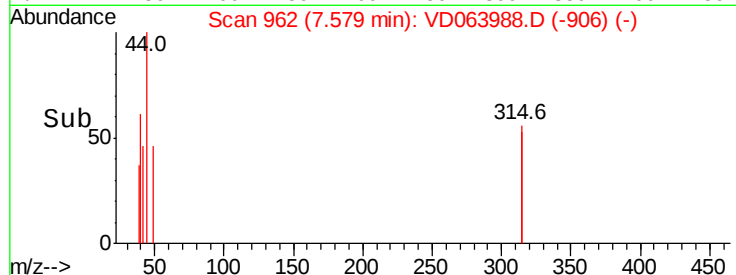
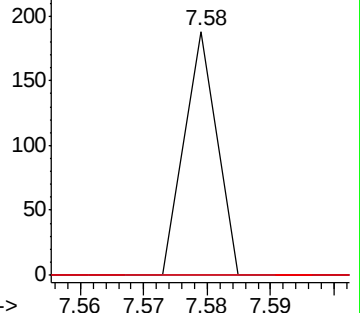
130 0.0 66.8 100.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD063988.D

Acq: 16 Oct 2019 15:35

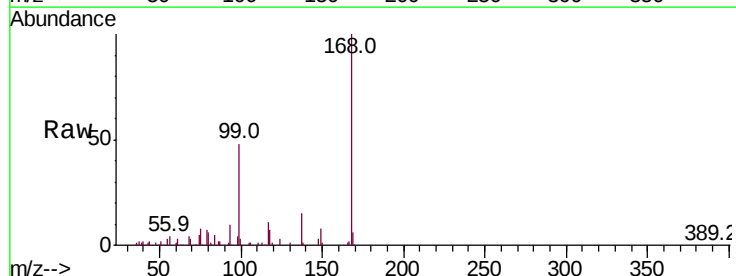
Tgt Ion: 56 Resp: 3420

Ion Ratio Lower Upper

56 100

69 73.7 25.0 37.4#

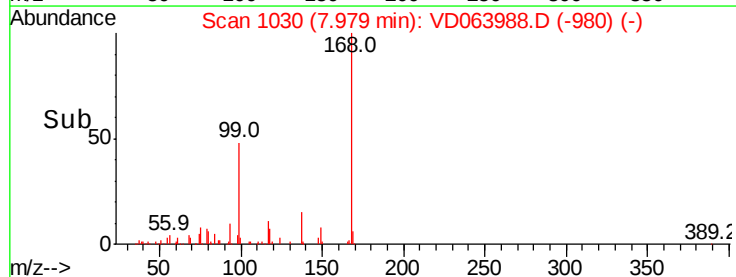
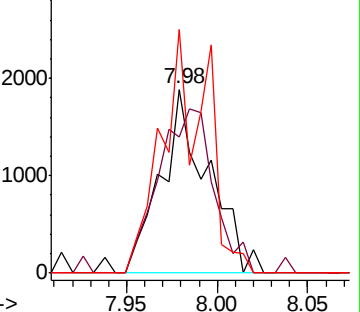
84 132.3 76.3 114.5#

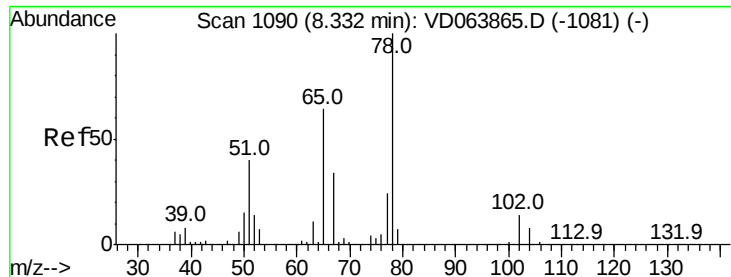


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

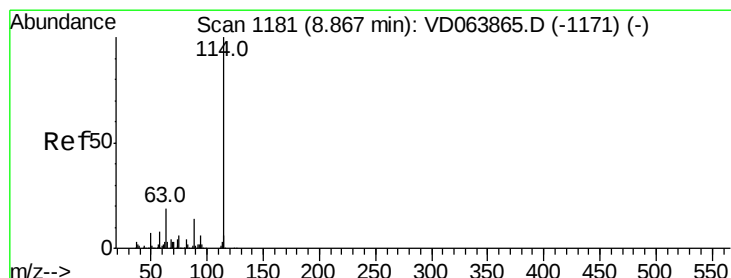
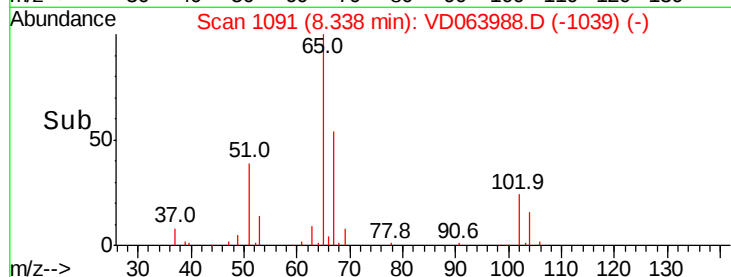
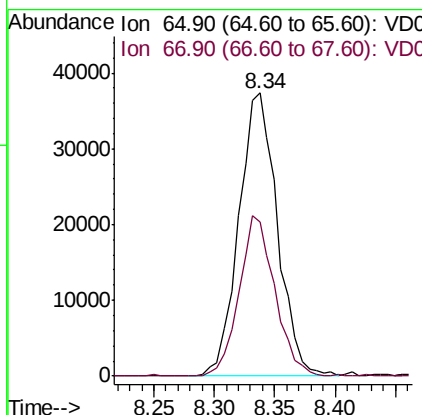
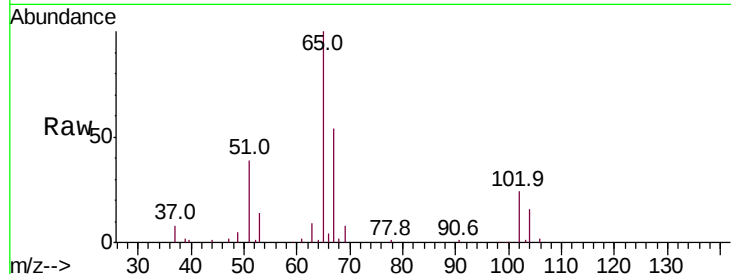




#33
 1,2-Dichloroethane-d4
 Concen: 71.964 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD063988.D
 Acq: 16 Oct 2019 15:35

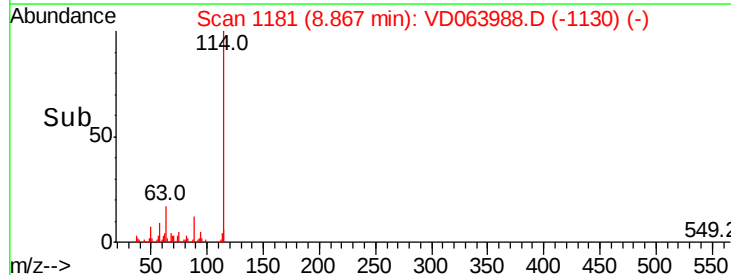
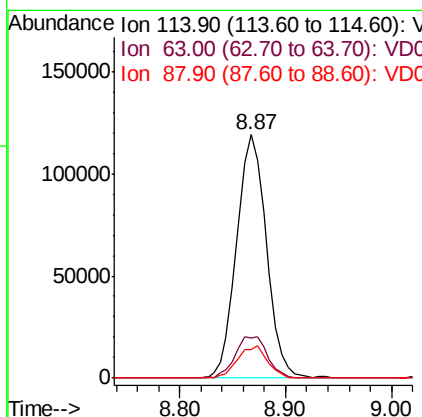
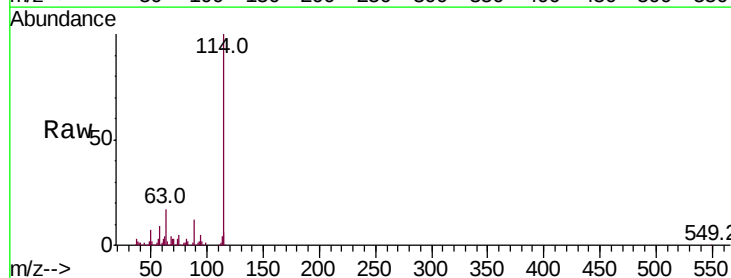
Instrument :
 MSVOA_D
 ClientSampleId :
 SU-01-101519RE

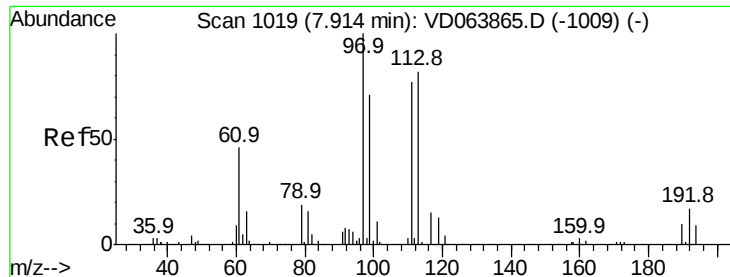
Tot Ion: 65 Resp: 83080
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD063988.D
 Acq: 16 Oct 2019 15:35

Tgt Ion: 114 Resp: 233569
 Ion Ratio Lower Upper
 114 100
 63 16.7 0.0 38.4
 88 11.9 0.0 27.4

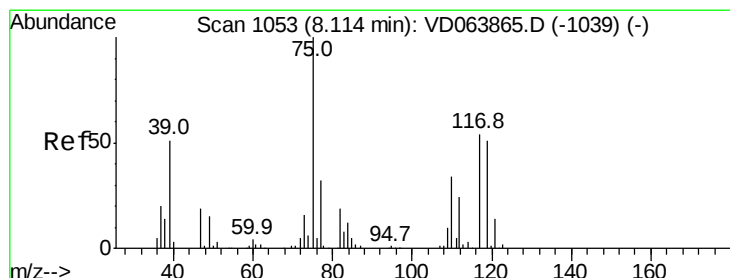
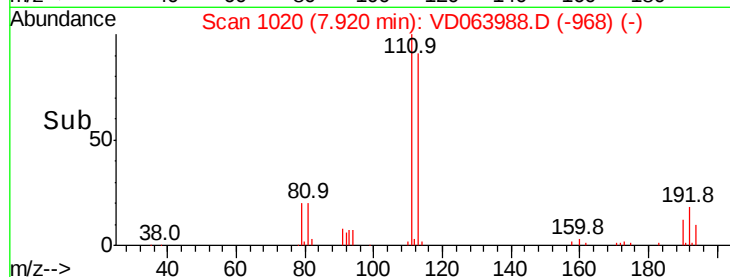
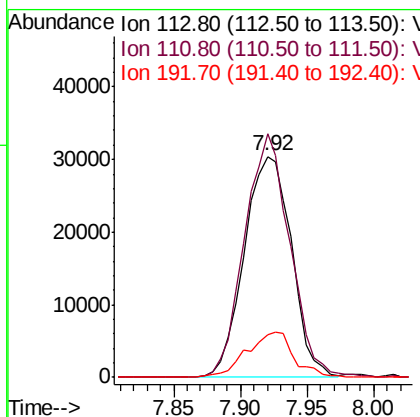
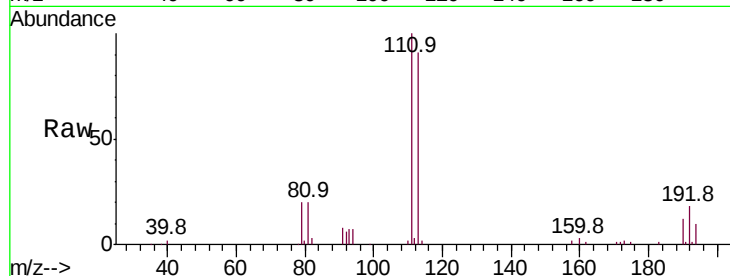




#35
 Dibromofluoromethane
 Concen: 52.350 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD063988.D
 Acq: 16 Oct 2019 15:35

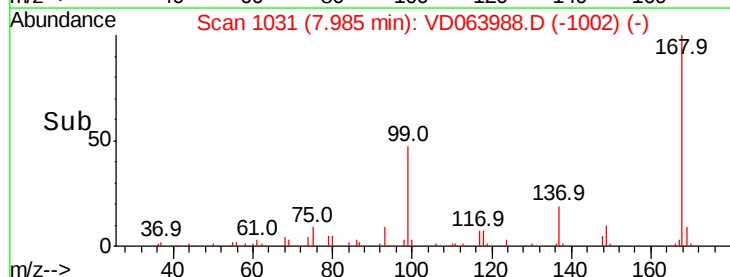
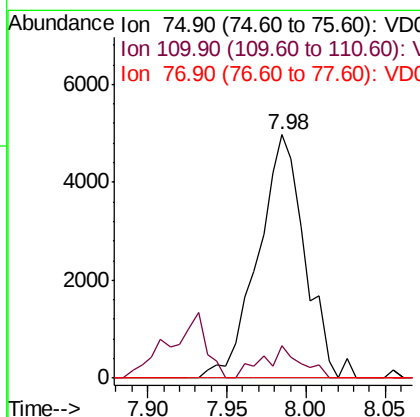
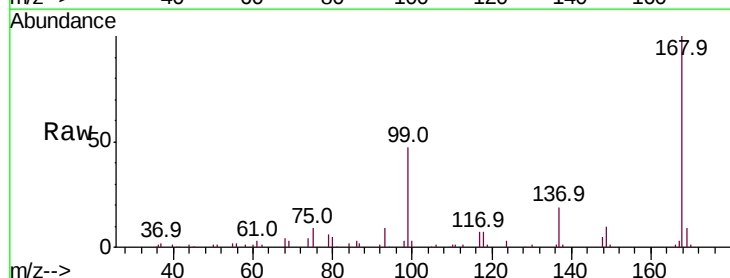
Instrument :
 MSVOA_D
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 SU-01-101519RE

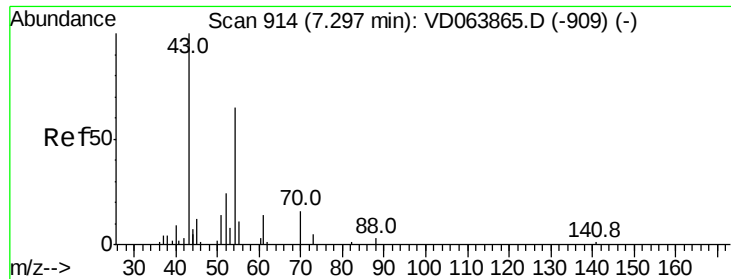
Tot Ion:113 Resp: 74725
 Ion Ratio Lower Upper
 113 100
 111 105.7 82.6 123.8
 192 20.3 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.705 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD063988.D
 Acq: 16 Oct 2019 15:35

Tgt Ion: 75 Resp: 10047
 Ion Ratio Lower Upper
 75 100
 110 10.9 17.4 52.3#
 77 0.0 25.4 38.0#





#37

Ethyl Acetate

Concen: Below Cal

RT: 7.33 min Scan# 919

Delta R.T. 0.03 min

Lab File: VD063988.D

Acq: 16 Oct 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

SU-01-101519RE

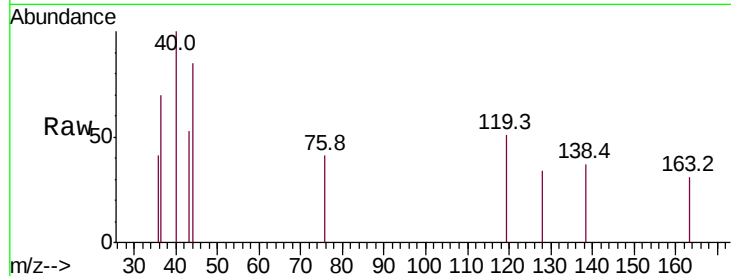
Tot Ion: 43 Resp: 94

Ion Ratio Lower Upper

43 100

61 66.0 11.5 17.3#

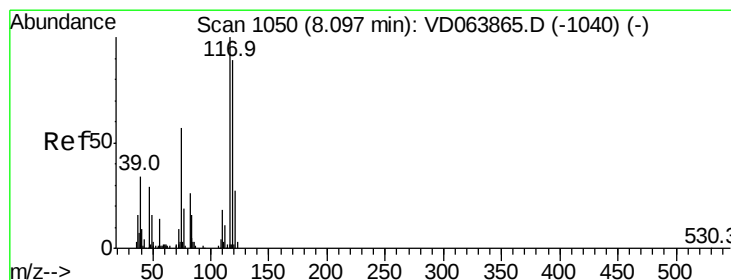
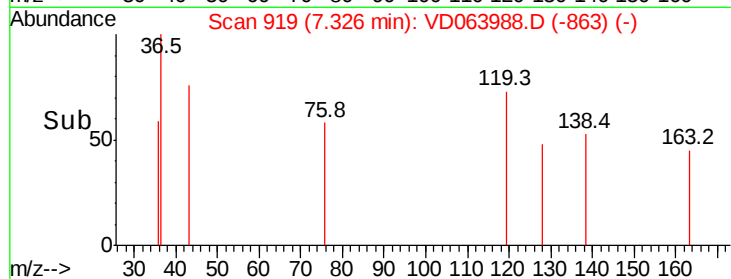
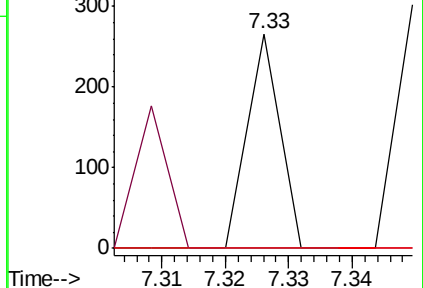
70 0.0 8.2 12.4#



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: 5.221 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD063988.D

Acq: 16 Oct 2019 15:35

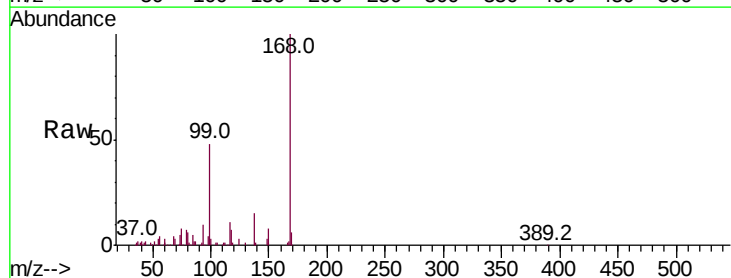
Tgt Ion: 117 Resp: 11268

Ion Ratio Lower Upper

117 100

119 6.5 70.8 106.2#

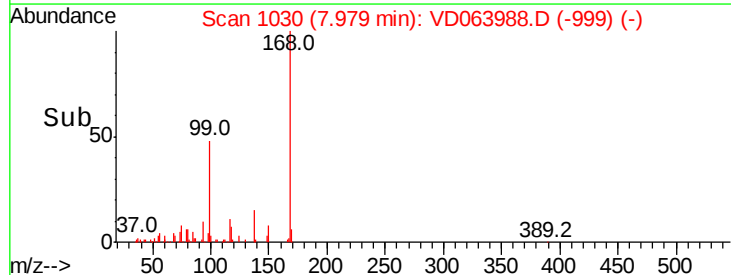
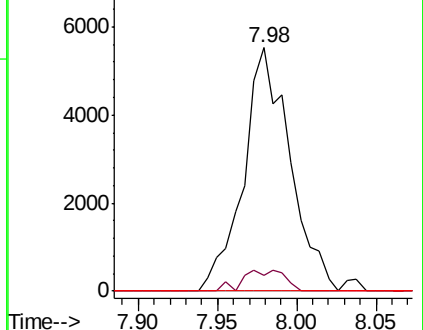
121 0.0 21.4 32.0#

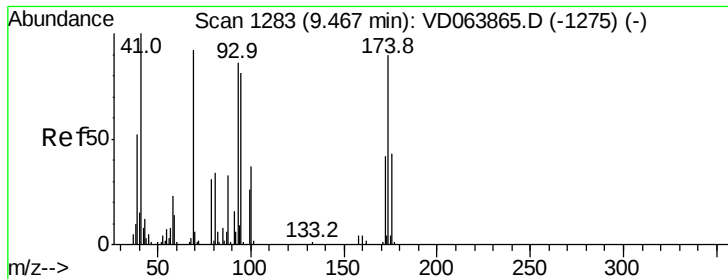


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

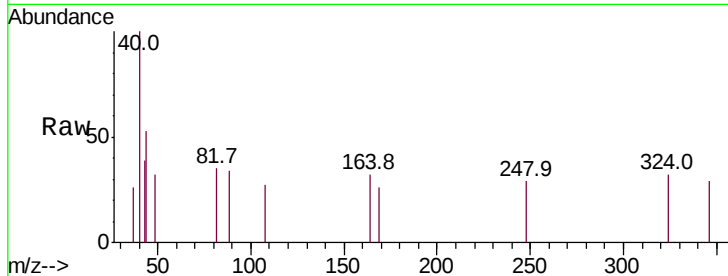




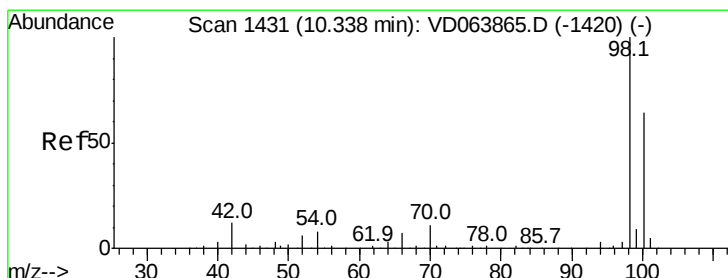
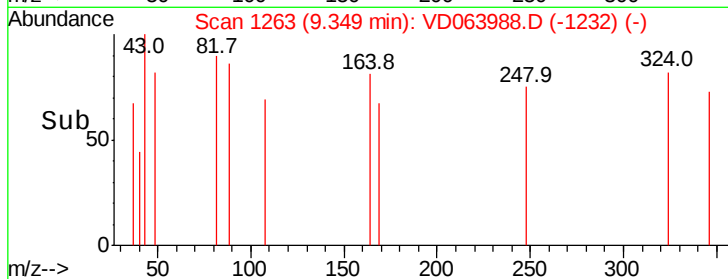
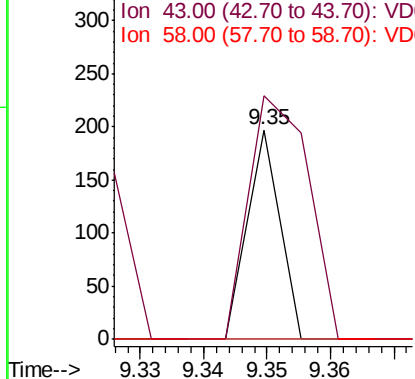
#49
 1,4-Dioxane
 Concen: 6.011 ug/l
 RT: 9.35 min Scan# 1263
 Delta R.T. -0.12 min
 Lab File: VD063988.D
 Acq: 16 Oct 2019 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 SU-01-101519RE

Tot Ion: 88 Resp: 70
 Ion Ratio Lower Upper
 88 100
 43 214.3 27.6 41.4#
 58 0.0 54.1 81.1#

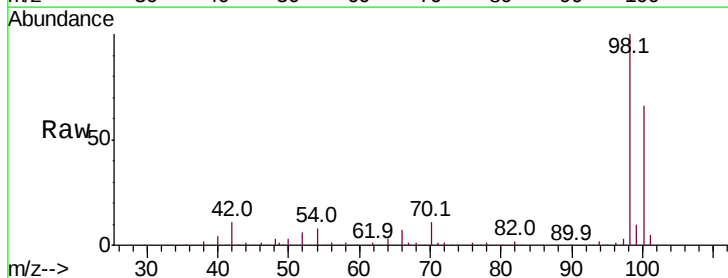


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC

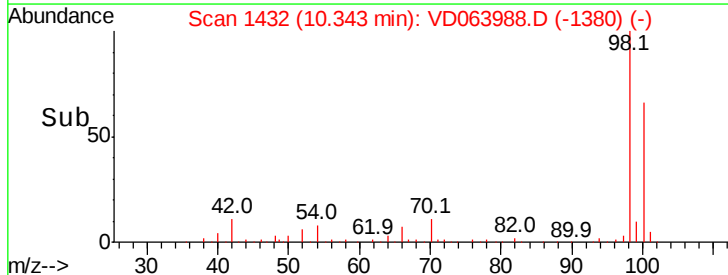
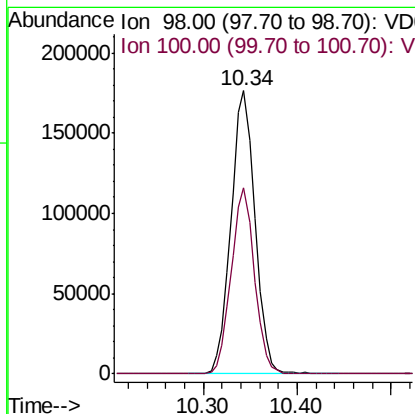


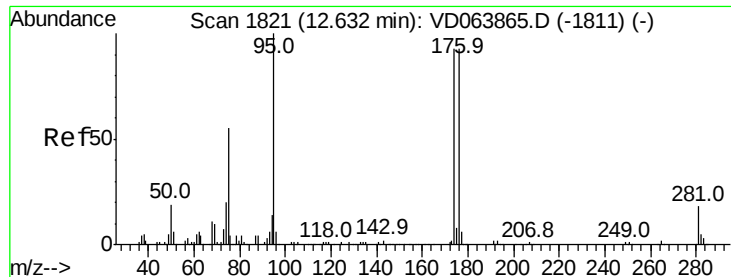
#50
 Toluene-d8
 Concen: 54.188 ug/l
 RT: 10.34 min Scan# 1432
 Delta R.T. 0.01 min
 Lab File: VD063988.D
 Acq: 16 Oct 2019 15:35

Tgt Ion: 98 Resp: 313948
 Ion Ratio Lower Upper
 98 100
 100 63.4 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC
 Ion 100.00 (99.70 to 100.70): VDC





#62

4-Bromofluorobenzene

Concen: 49.598 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD063988.D

Acq: 16 Oct 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

SU-01-101519RE

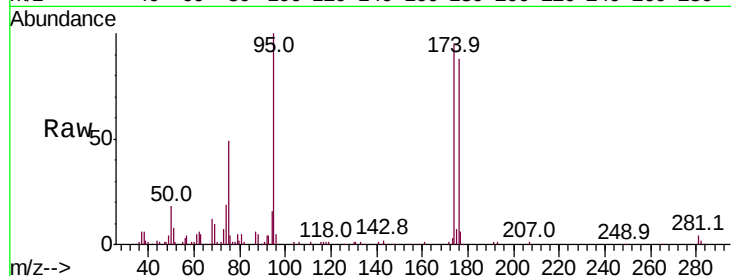
Tot Ion: 95 Resp: 99856

Ion Ratio Lower Upper

95 100

174 94.8 0.0 186.4

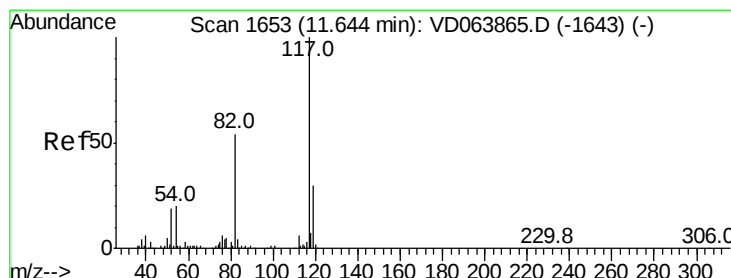
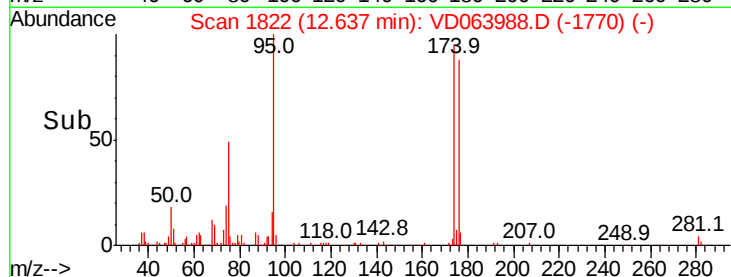
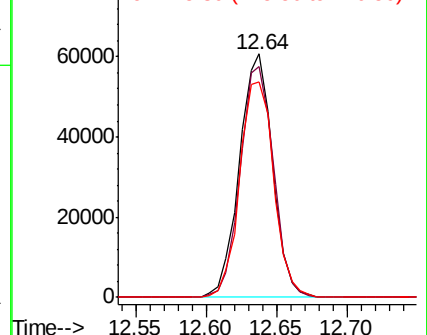
176 90.6 0.0 184.2



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. 0.01 min

Lab File: VD063988.D

Acq: 16 Oct 2019 15:35

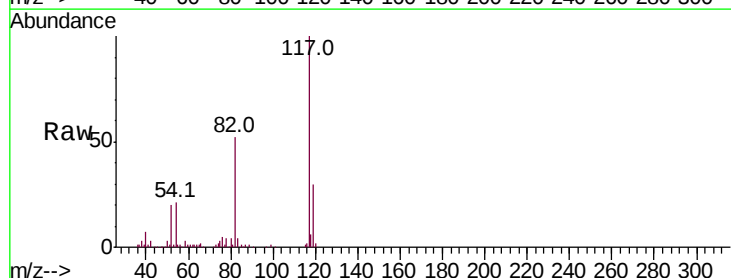
Tgt Ion: 117 Resp: 245416

Ion Ratio Lower Upper

117 100

82 52.3 42.8 64.2

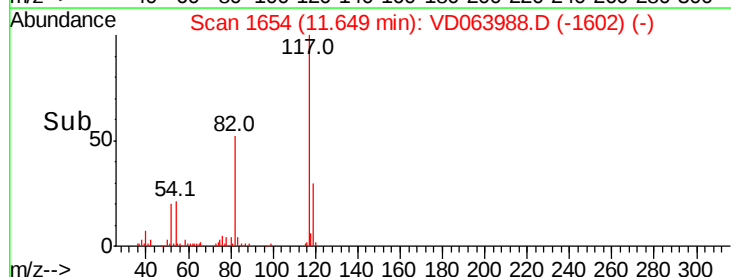
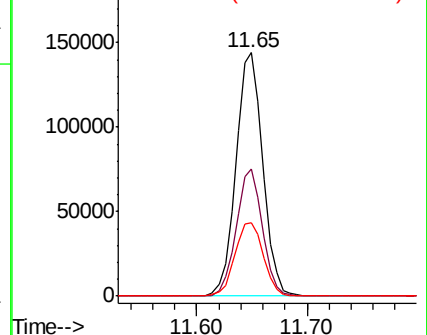
119 30.1 24.4 36.6

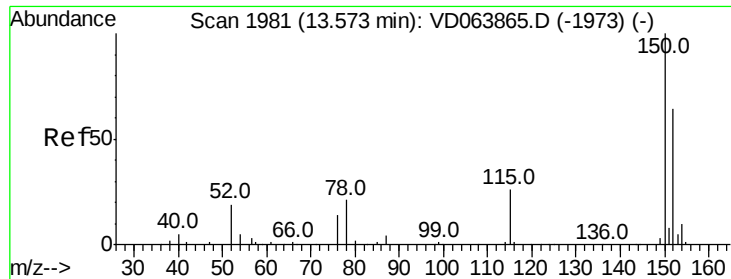


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD063988.D

Acq: 16 Oct 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

SU-01-101519RE

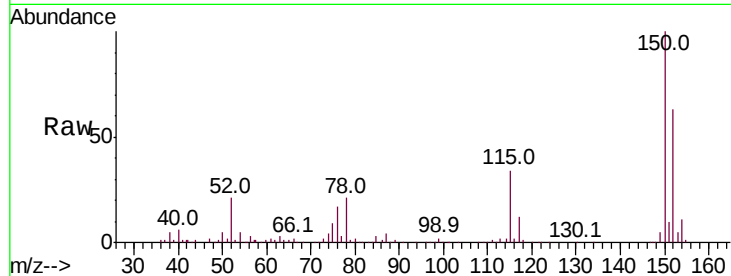
Tot Ion:152 Resp: 119140

Ion Ratio Lower Upper

152 100

115 54.8 25.9 77.7

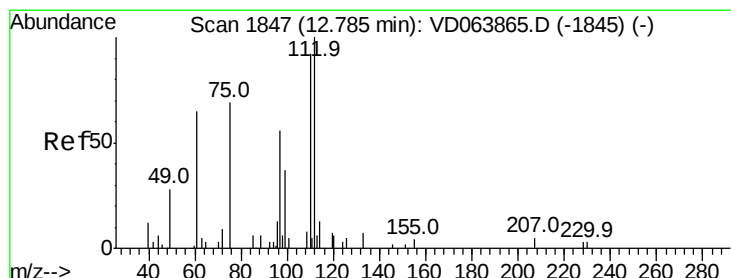
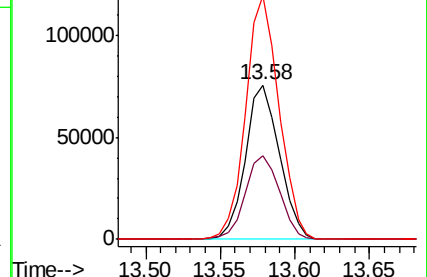
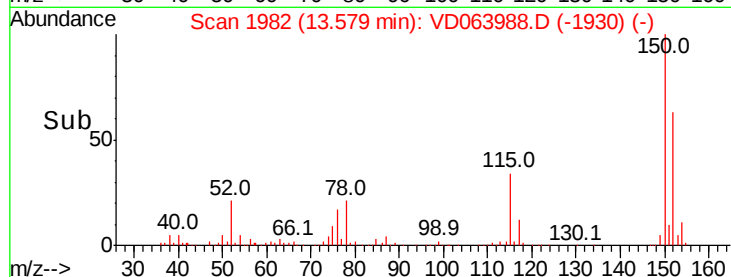
150 154.4 0.0 344.2



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



#76

1,2,3-Trichloropropane

Concen: 66.894 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063988.D

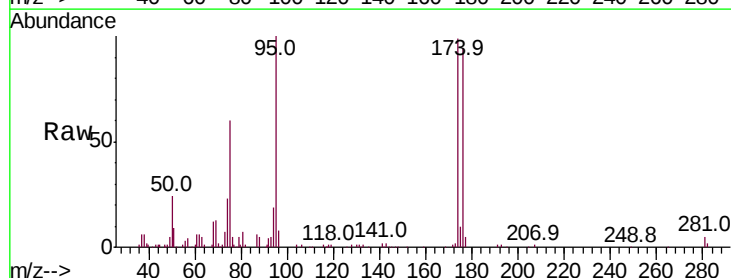
Acq: 16 Oct 2019 15:35

Tgt Ion: 75 Resp: 53379

Ion Ratio Lower Upper

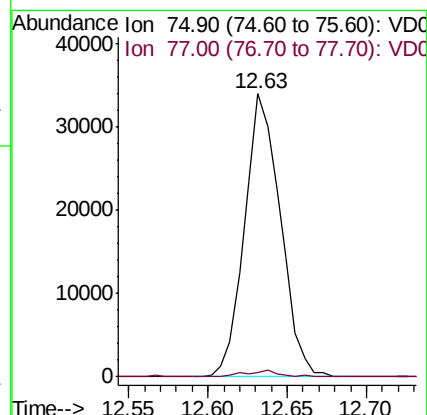
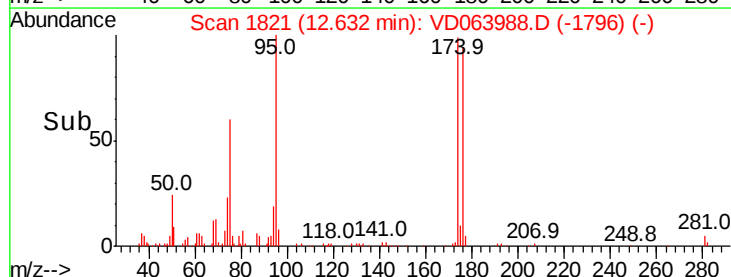
75 100

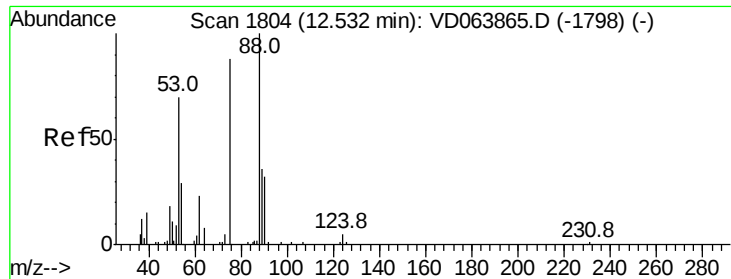
77 2.2 0.0 0.0#



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: 118.375 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063988.D

Acq: 16 Oct 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

SU-01-101519RE

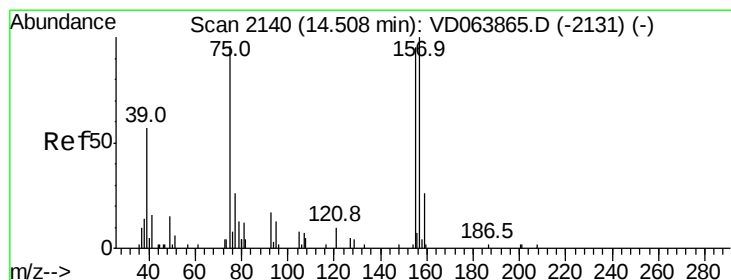
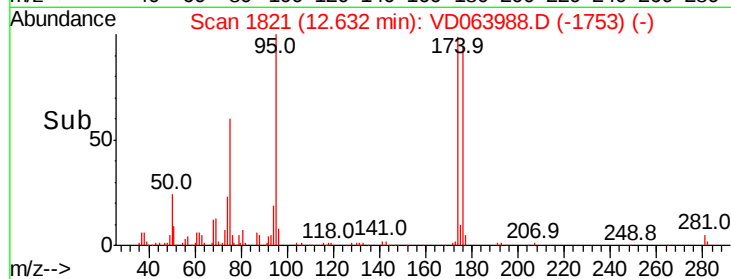
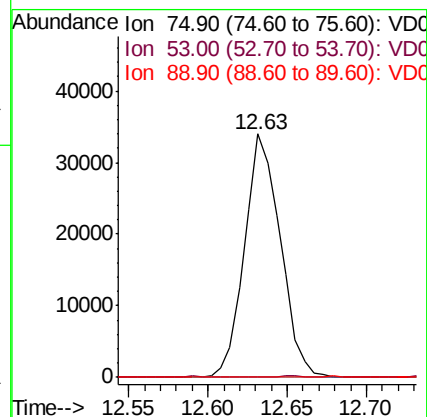
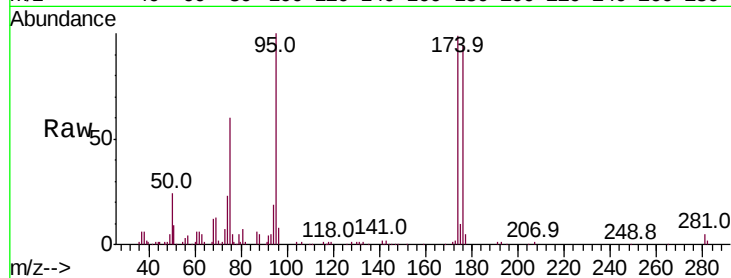
Tot Ion: 75 Resp: 53379

Ion Ratio Lower Upper

75 100

53 0.3 75.0 112.6#

89 0.0 38.2 57.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.59 min Scan# 2154

Delta R.T. 0.08 min

Lab File: VD063988.D

Acq: 16 Oct 2019 15:35

Tgt Ion: 75 Resp: 130

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#

