

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080519\
 Data File : VD063385.D
 Acq On : 5 Aug 2019 17:16
 Operator : VA/AP
 Sample : K4130-08RE
 Misc : 5.60g/5ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-F2-(30)RE

Quant Time: Aug 06 07:51:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	119235	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	199281	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	197605	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	106452	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	114826	86.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	173.58%	
35) Dibromofluoromethane	6.93	113	93979	55.24	ug/l	0.02
Spiked Amount 50.000			Recovery	=	110.48%	
50) Toluene-d8	10.41	98	162565	42.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.38%	
62) 4-Bromofluorobenzene	13.55	95	90683	52.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.52%	

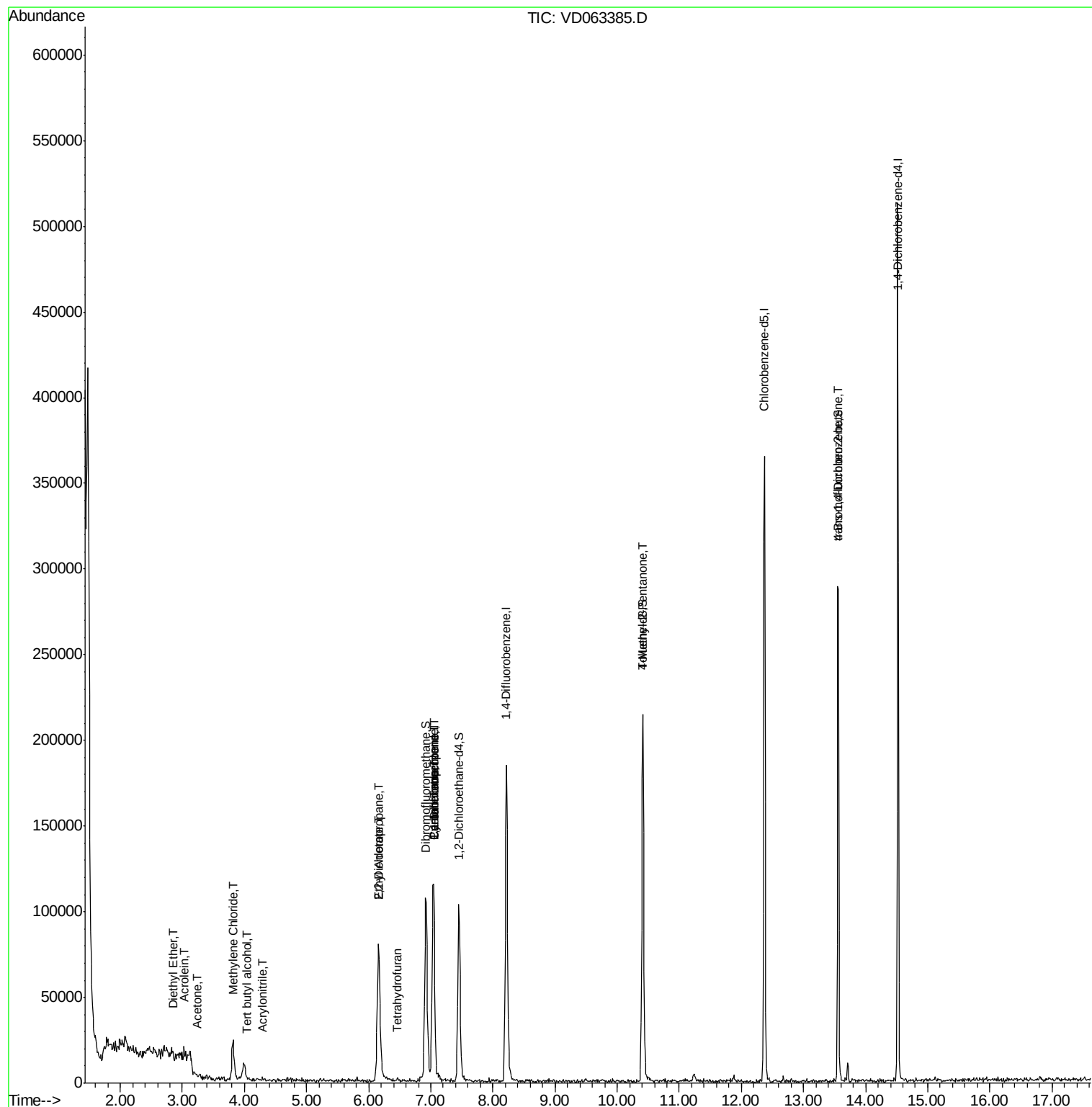
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.86	74	748	2.350	ug/l	87
11) Tert butyl alcohol	4.05	59	1202	20.702	ug/l #	69
13) Acrolein	3.02	56	196	3.508	ug/l #	15
15) Acrylonitrile	4.30	53	187	1.242	ug/l #	14
16) Acetone	3.24	43	3146	12.204	ug/l #	62
20) Methylene Chloride	3.82	84	14260	13.686	ug/l #	93
26) 2,2-Dichloropropane	6.15	77	5191	2.679	ug/l #	56
29) Tetrahydrofuran	6.47	42	293	2.392	ug/l #	33
31) Cyclohexane	7.04	56	2278	1.933	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	9002	4.950	ug/l #	44
37) Ethyl Acetate	6.16	43	5099	6.241	ug/l #	1
38) Carbon Tetrachloride	7.05	117	11948	4.364	ug/l #	11
51) 4-Methyl-2-Pentanone	10.41	43	1292	1.820	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	44353	124.921	ug/l #	3

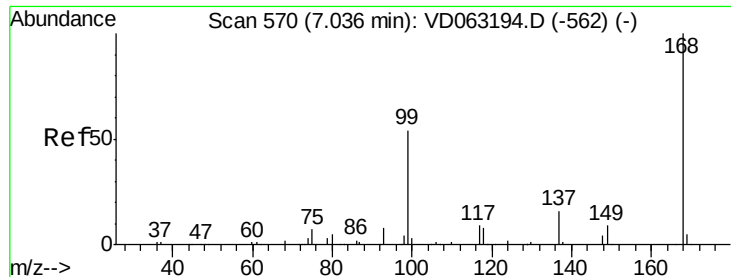
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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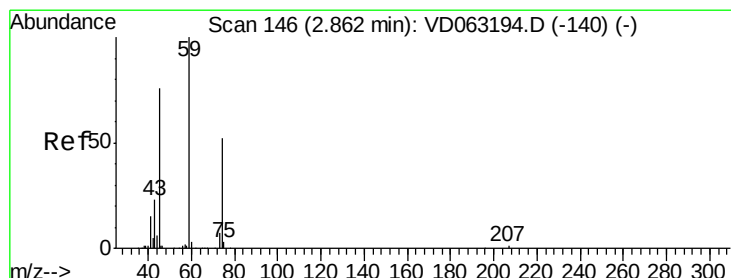
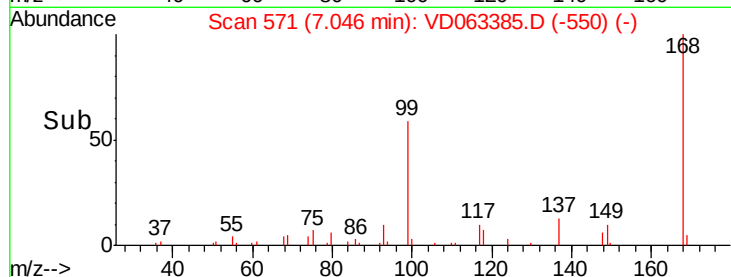
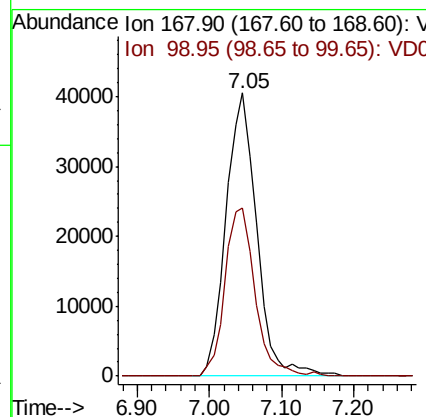
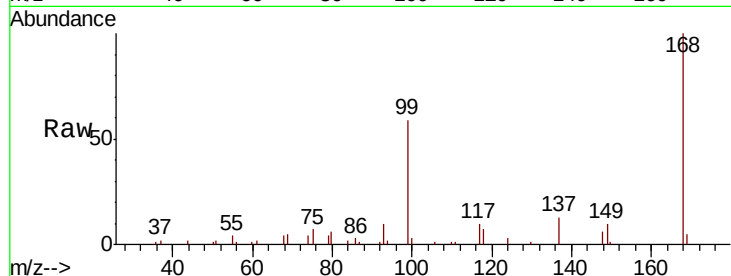




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.01 min
Lab File: VD063385.D
Acq: 5 Aug 2019 17:16

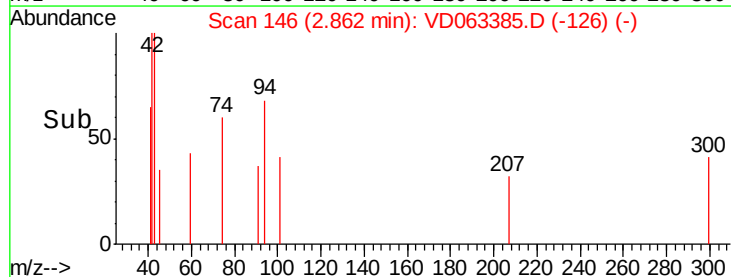
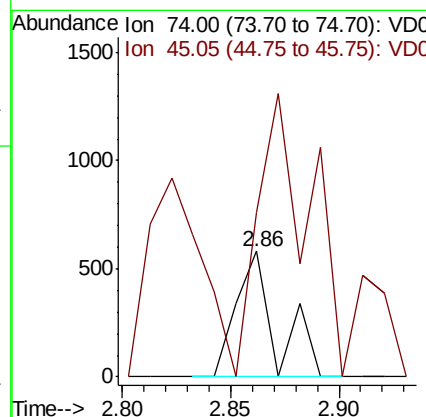
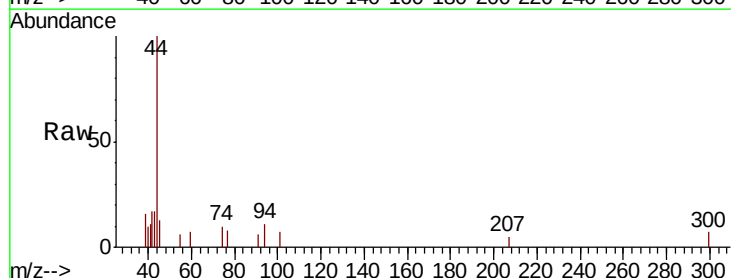
Instrument :
MSVOA_D
ClientSampleId :
1S-F2-(30)RE

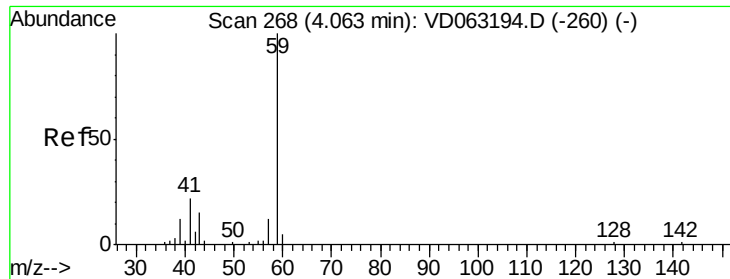
Tgt Ion:168 Resp: 119235
Ion Ratio Lower Upper
168 100
99 59.3 43.7 65.5



#8
Diethyl Ether
Concen: 2.350 ug/l
RT: 2.86 min Scan# 146
Delta R.T. -0.00 min
Lab File: VD063385.D
Acq: 5 Aug 2019 17:16

Tgt Ion: 74 Resp: 748
Ion Ratio Lower Upper
74 100
45 130.9 73.6 220.8

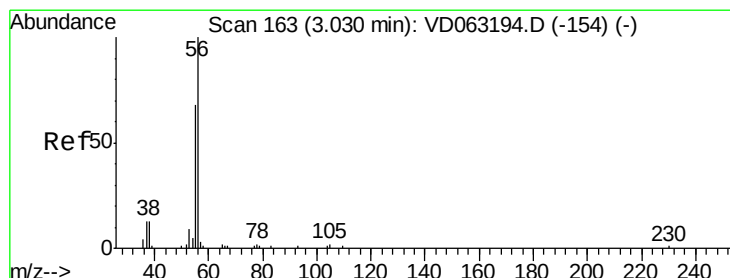
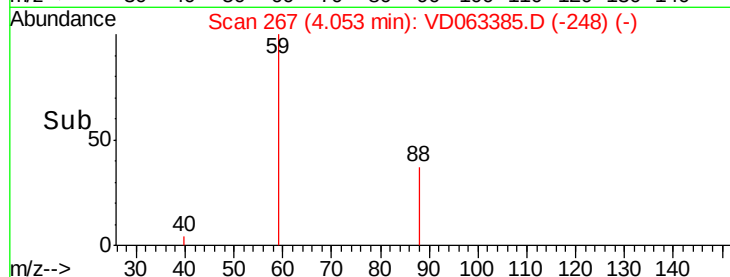
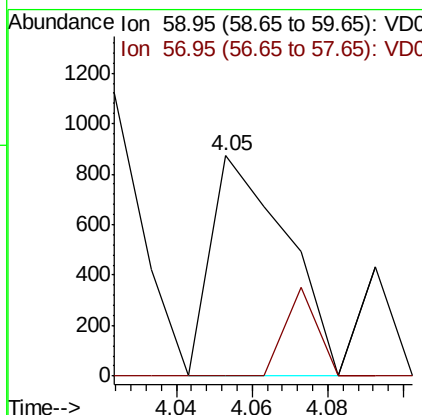
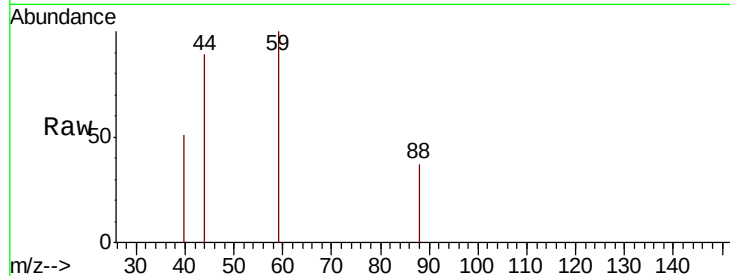




#11
Tert butyl alcohol
Concen: 20.702 ug/l
RT: 4.05 min Scan# 267
Delta R.T. -0.01 min
Lab File: VD063385.D
Acq: 5 Aug 2019 17:16

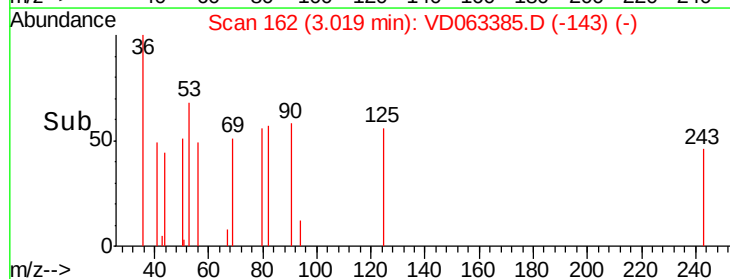
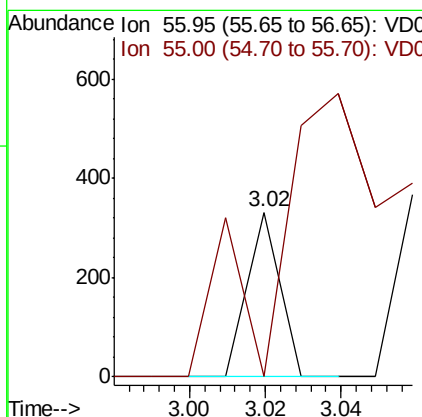
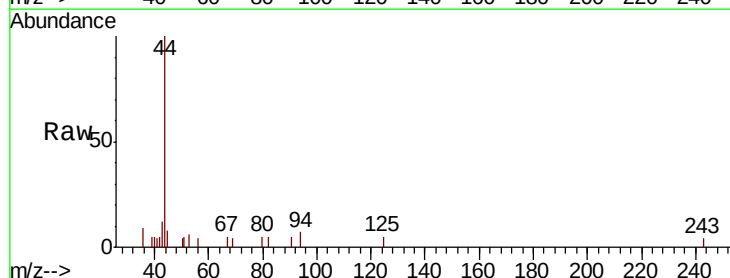
Instrument :
MSVOA_D
ClientSampleId :
1S-F2-(30)RE

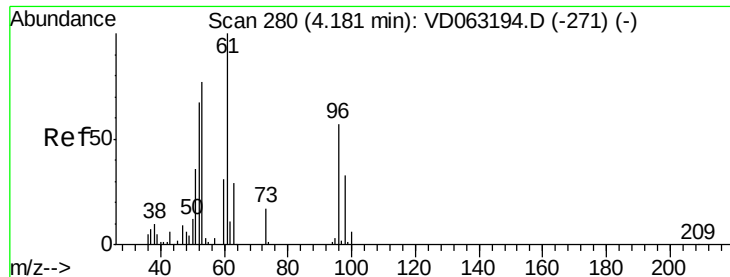
Tgt Ion: 59 Resp: 1202
Ion Ratio Lower Upper
59 100
57 0.0 9.6 14.4#



#13
Acrolein
Concen: 3.508 ug/l
RT: 3.02 min Scan# 162
Delta R.T. -0.01 min
Lab File: VD063385.D
Acq: 5 Aug 2019 17:16

Tgt Ion: 56 Resp: 196
Ion Ratio Lower Upper
56 100
55 0.0 55.3 82.9#





#15

Acrylonitrile

Concen: 1.242 ug/l

RT: 4.30 min Scan# 292

Delta R.T. 0.12 min

Lab File: VD063385.D

Acq: 5 Aug 2019 17:16

Instrument :

MSVOA_D

ClientSampleId :

1S-F2-(30)RE

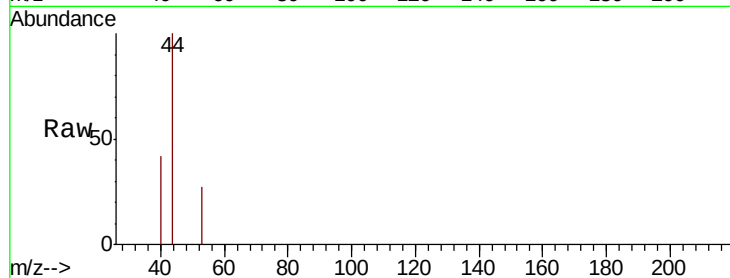
Tgt Ion: 53 Resp: 187

Ion Ratio Lower Upper

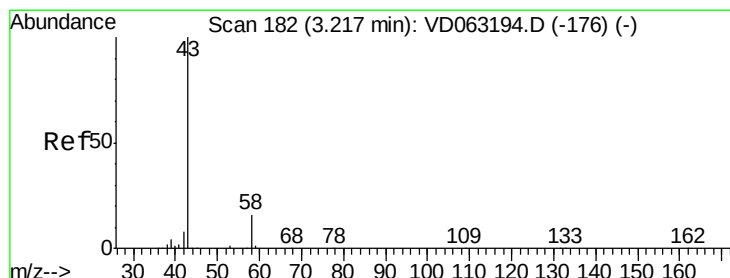
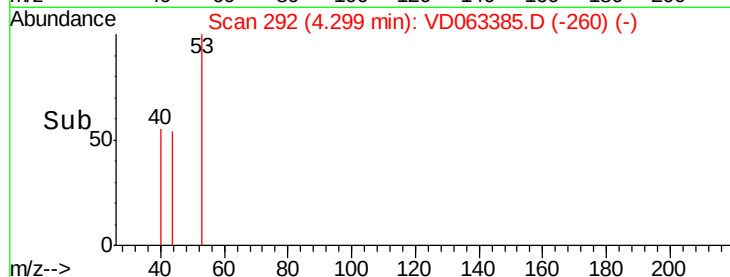
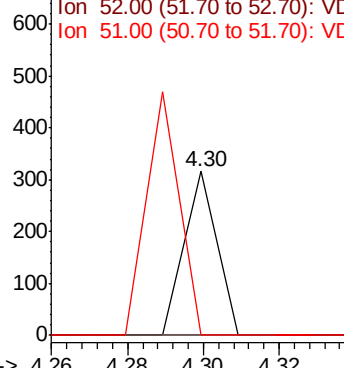
53 100

52 0.0 69.7 104.5#

51 0.0 37.4 56.0#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 12.204 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD063385.D

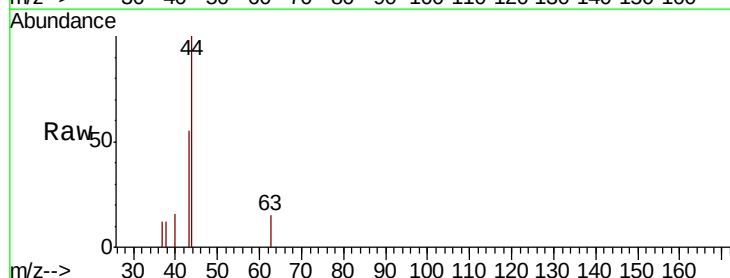
Acq: 5 Aug 2019 17:16

Tgt Ion: 43 Resp: 3146

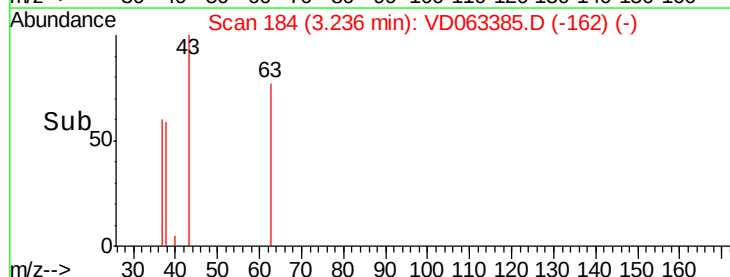
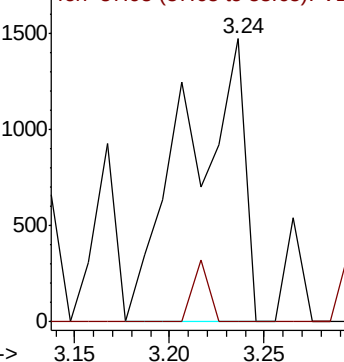
Ion Ratio Lower Upper

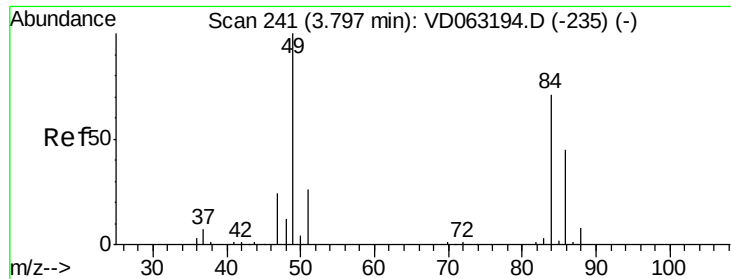
43 100

58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

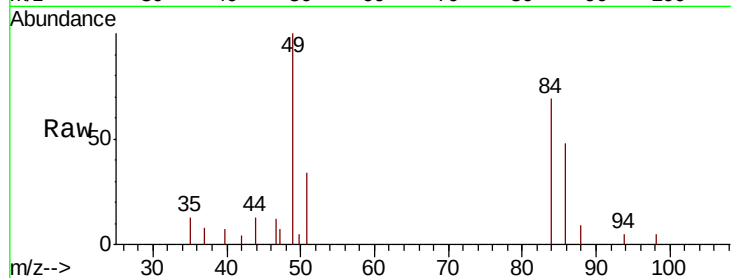




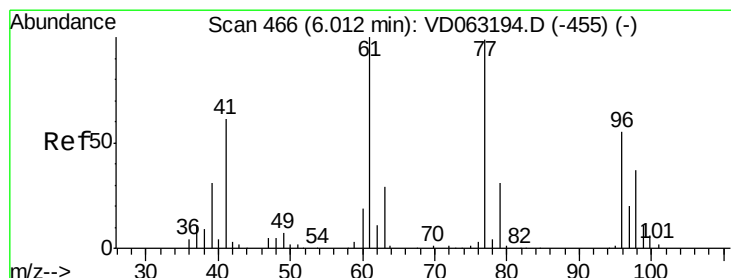
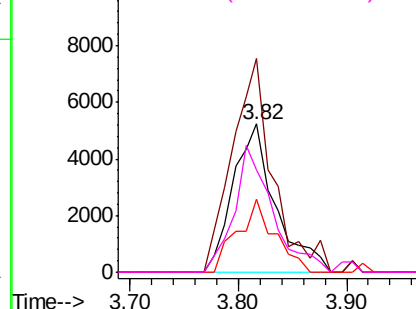
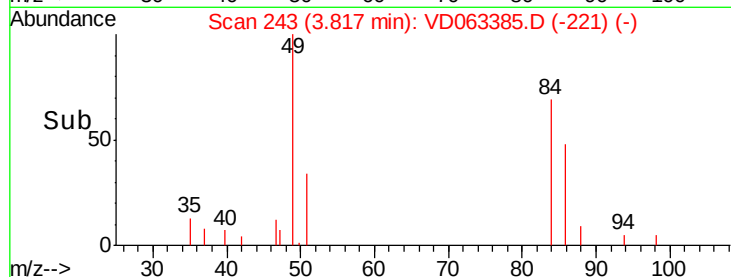
#20
Methylene Chloride
Concen: 13.686 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD063385.D
Acq: 5 Aug 2019 17:16

Instrument :
MSVOA_D
ClientSampleId :
1S-F2-(30)RE

Tgt Ion: 84 Resp: 14260
Ion Ratio Lower Upper
84 100
49 144.1 112.5 168.7
51 48.9 29.6 44.4#
86 68.7 50.4 75.6

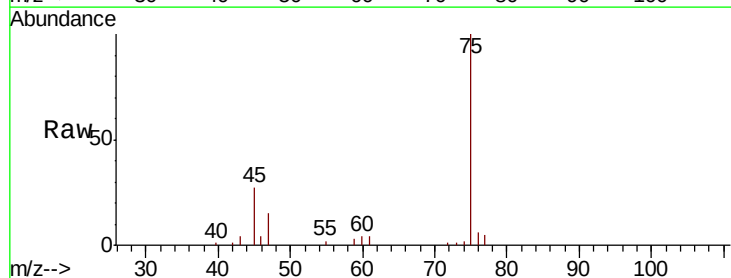


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

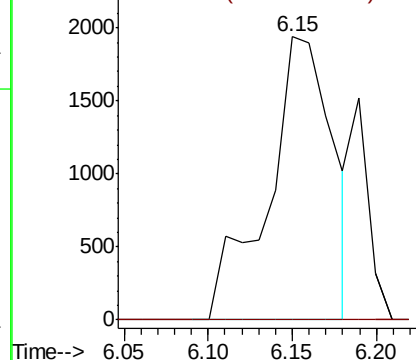
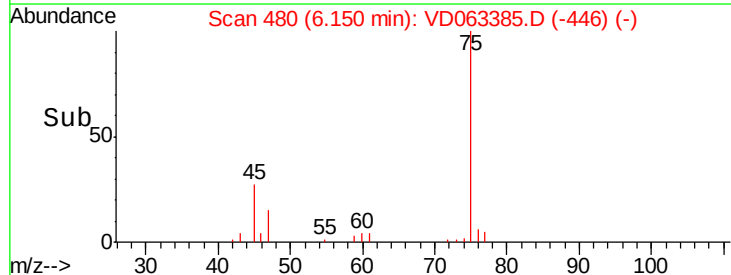


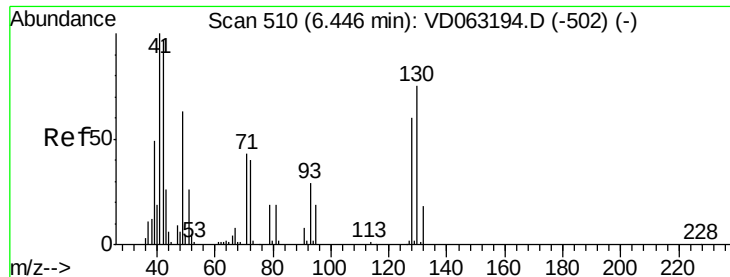
#26
2,2-Dichloropropane
Concen: 2.679 ug/l
RT: 6.15 min Scan# 480
Delta R.T. 0.14 min
Lab File: VD063385.D
Acq: 5 Aug 2019 17:16

Tgt Ion: 77 Resp: 5191
Ion Ratio Lower Upper
77 100
97 0.0 10.2 30.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC
Ion 96.85 (96.55 to 97.55): VDC





#29

Tetrahydrofuran

Concen: 2.392 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063385.D

Acq: 5 Aug 2019 17:16

Instrument :

MSVOA_D

ClientSampleId :

1S-F2-(30)RE

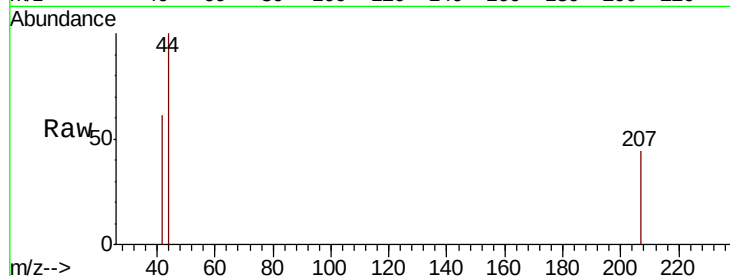
Tgt Ion: 42 Resp: 293

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.2#

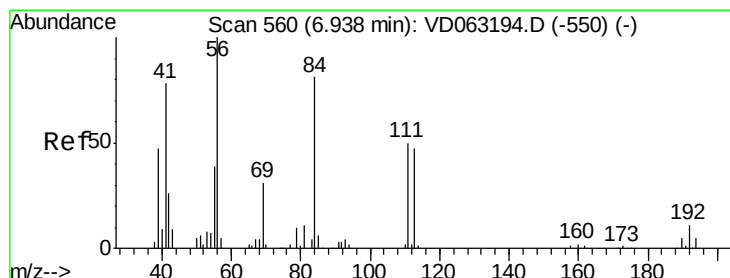
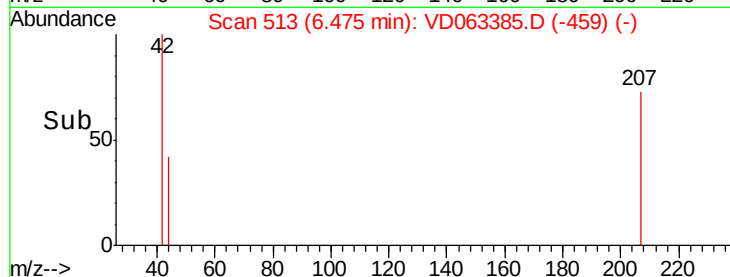
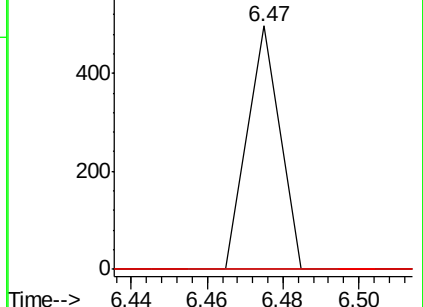
71 0.0 35.7 53.5#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.933 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063385.D

Acq: 5 Aug 2019 17:16

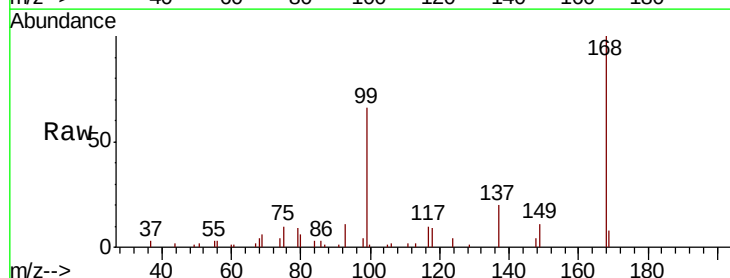
Tgt Ion: 56 Resp: 2278

Ion Ratio Lower Upper

56 100

69 227.7 24.5 36.7#

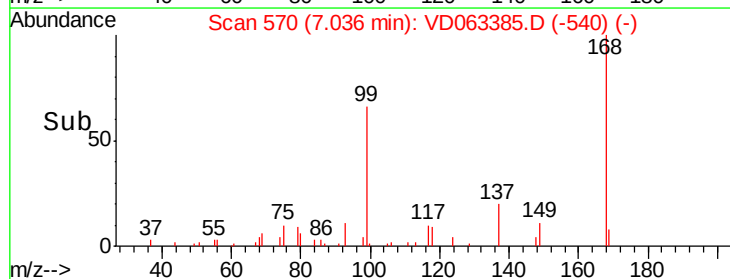
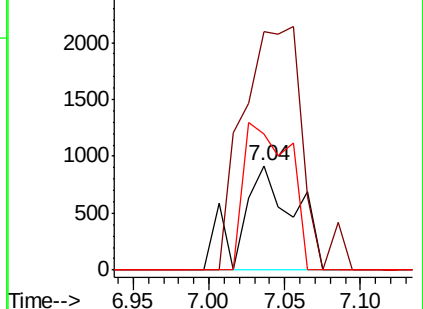
84 130.4 64.9 97.3#

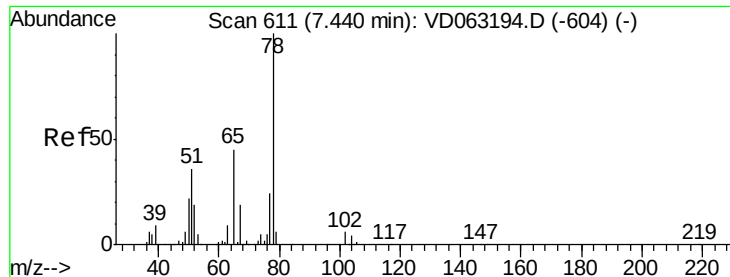


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

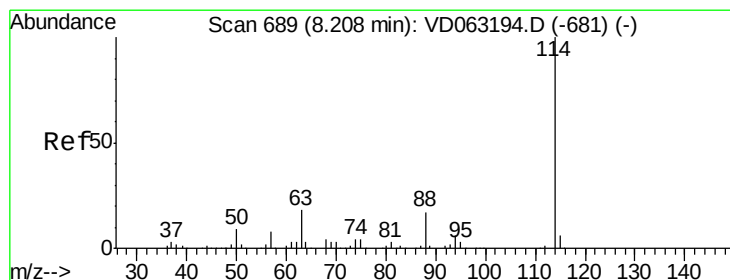
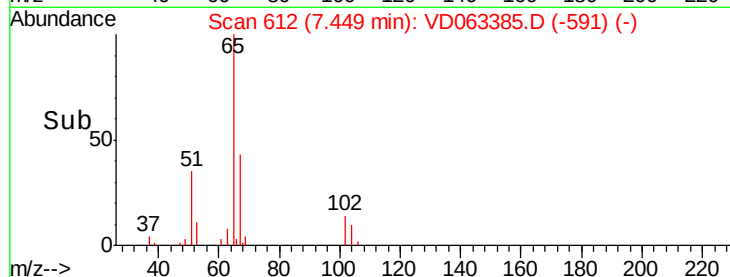
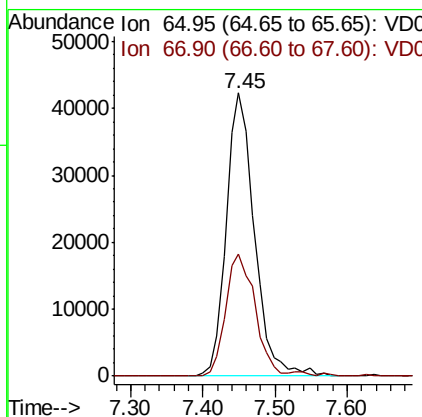
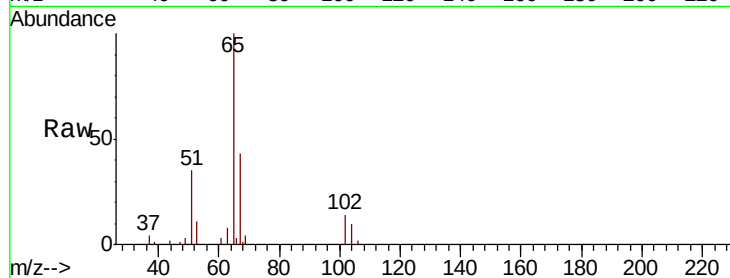




#33
 1,2-Dichloroethane-d4
 Concen: 86.790 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VD063385.D
 Acq: 5 Aug 2019 17:16

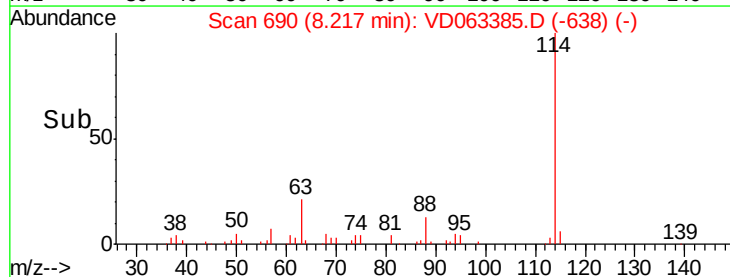
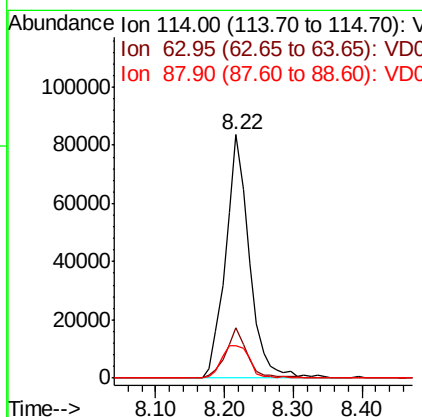
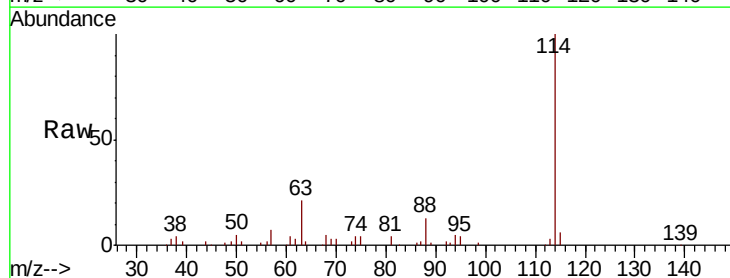
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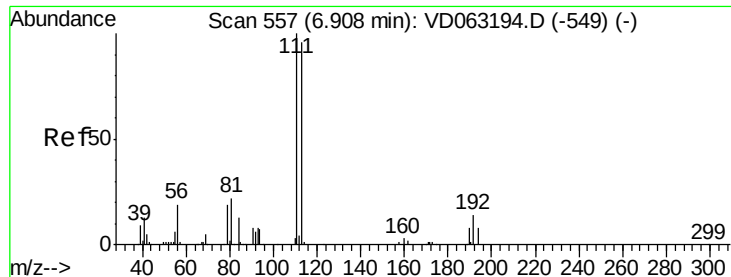
Tgt Ion: 65 Resp: 114826
 Ion Ratio Lower Upper
 65 100
 67 43.2 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063385.D
 Acq: 5 Aug 2019 17:16

Tgt Ion: 114 Resp: 199281
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 35.2
 88 13.4 0.0 34.6





#35

Dibromofluoromethane

Concen: 55.235 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.02 min

Lab File: VD063385.D

Acq: 5 Aug 2019 17:16

Instrument :

MSVOA_D

ClientSampleId :

1S-F2-(30)RE

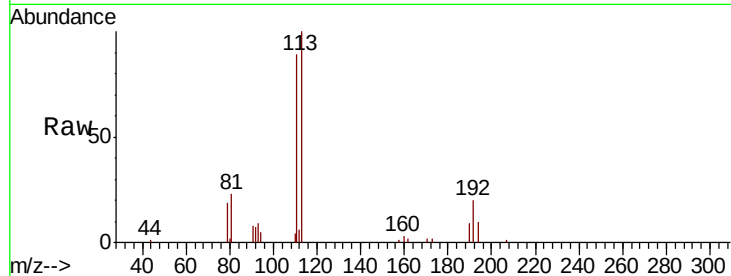
Tgt Ion:113 Resp: 93979

Ion Ratio Lower Upper

113 100

111 89.1 83.2 124.8

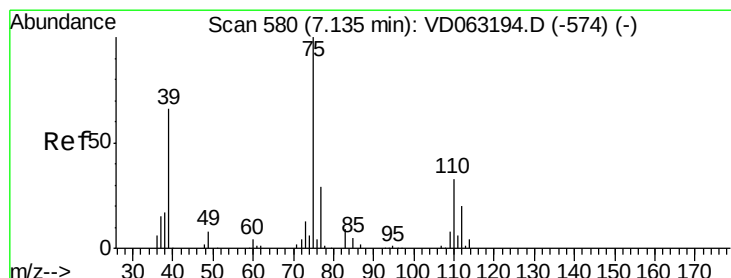
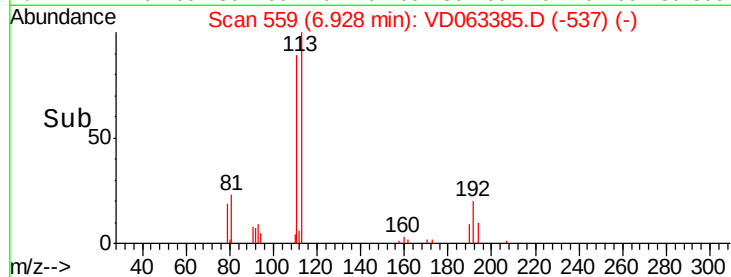
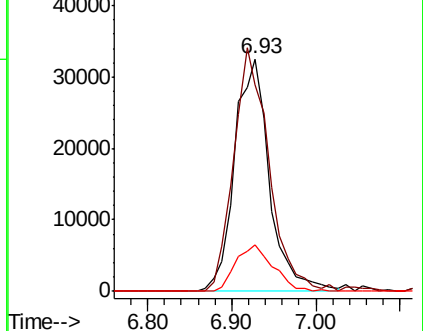
192 19.9 11.8 17.8#



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 4.950 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD063385.D

Acq: 5 Aug 2019 17:16

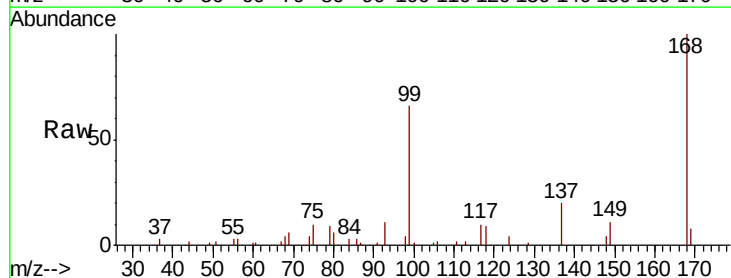
Tgt Ion: 75 Resp: 9002

Ion Ratio Lower Upper

75 100

110 0.0 16.1 48.2#

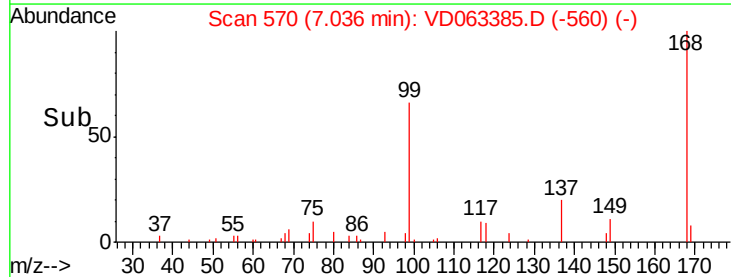
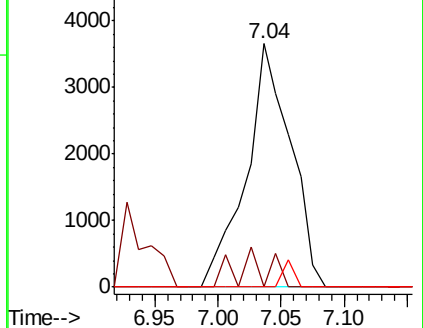
77 0.0 22.7 34.1#

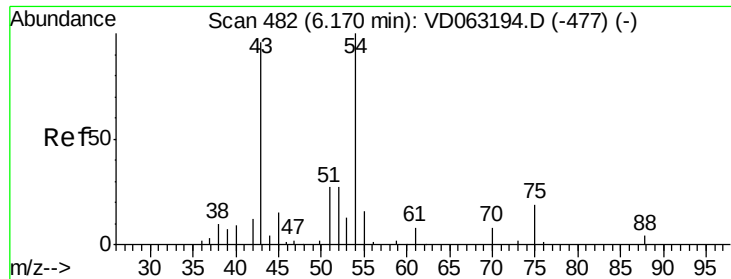


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

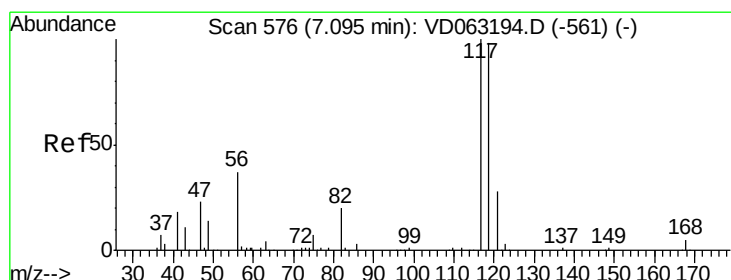
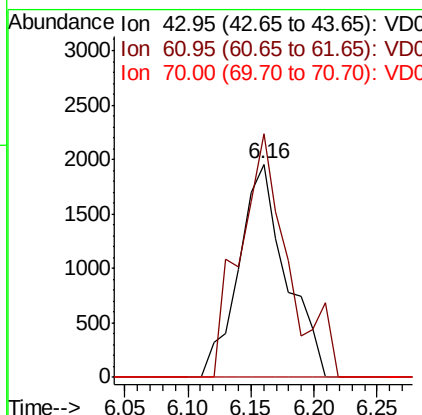
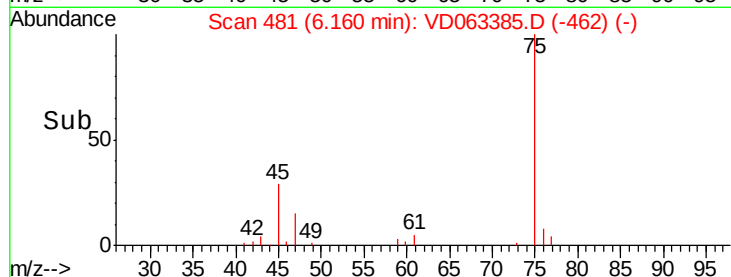
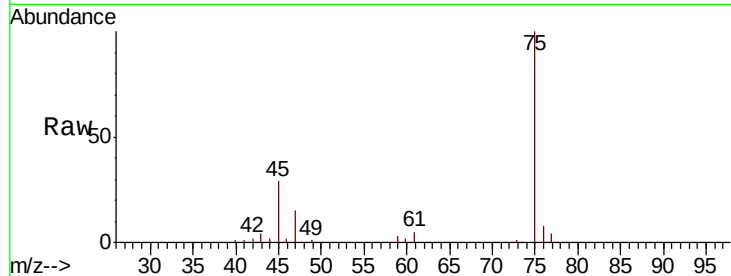




#37
Ethyl Acetate
Concen: 6.241 ug/l
RT: 6.16 min Scan# 481
Delta R.T. -0.01 min
Lab File: VD063385.D
Acq: 5 Aug 2019 17:16

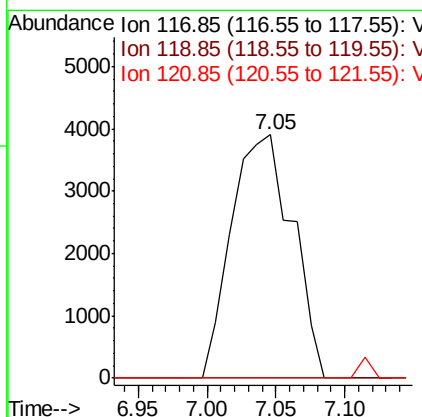
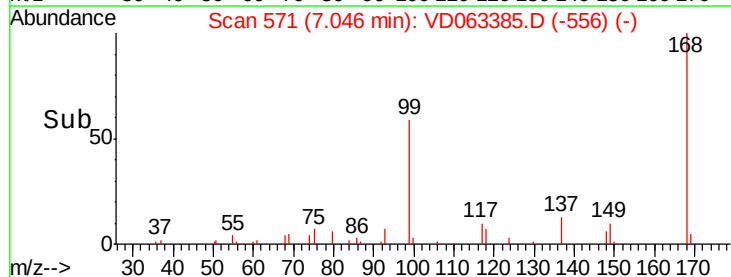
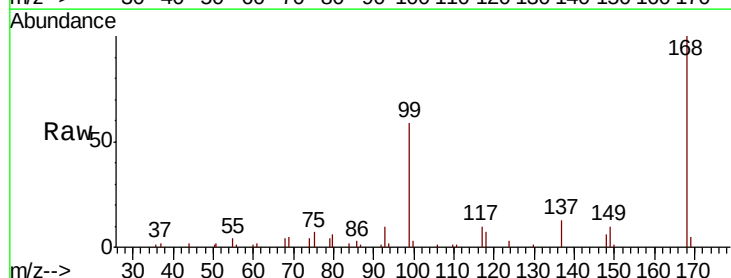
Instrument :
MSVOA_D
ClientSampleId :
1S-F2-(30)RE

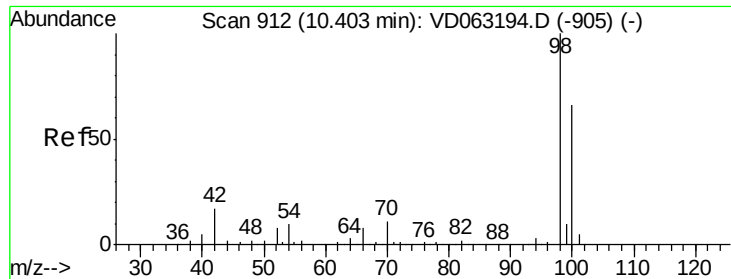
Tgt Ion: 43 Resp: 5099
Ion Ratio Lower Upper
43 100
61 114.3 11.3 16.9#
70 0.0 5.1 7.7#



#38
Carbon Tetrachloride
Concen: 4.364 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.05 min
Lab File: VD063385.D
Acq: 5 Aug 2019 17:16

Tgt Ion: 117 Resp: 11948
Ion Ratio Lower Upper
117 100
119 0.0 78.2 117.2#
121 0.0 22.1 33.1#

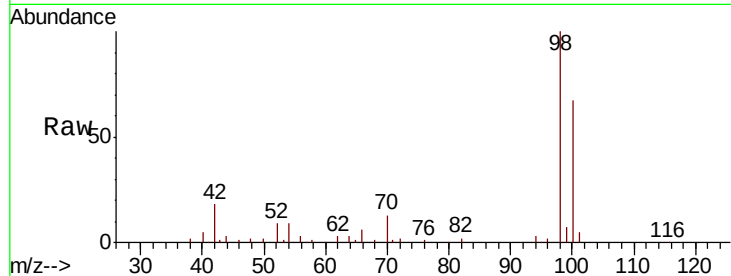




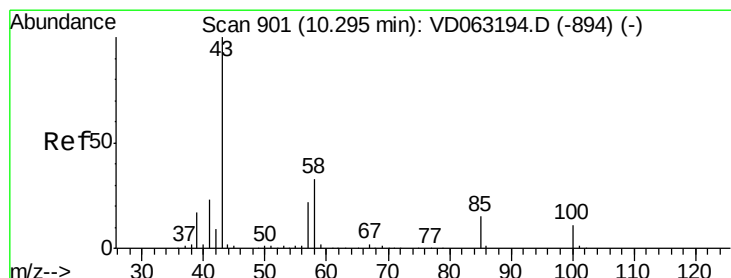
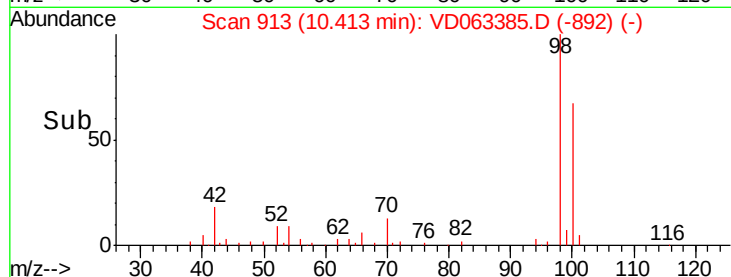
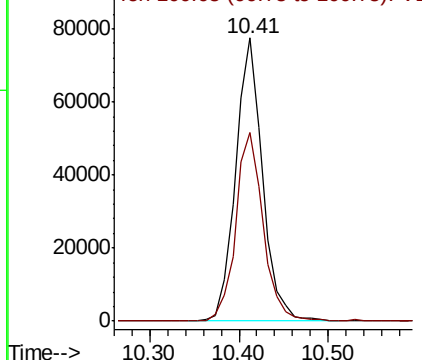
#50
Toluene-d8
Concen: 42.693 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063385.D
Acq: 5 Aug 2019 17:16

Instrument :
MSVOA_D
ClientSampleId :
1S-F2-(30)RE

Tgt Ion: 98 Resp: 162565
Ion Ratio Lower Upper
98 100
100 66.6 53.2 79.8

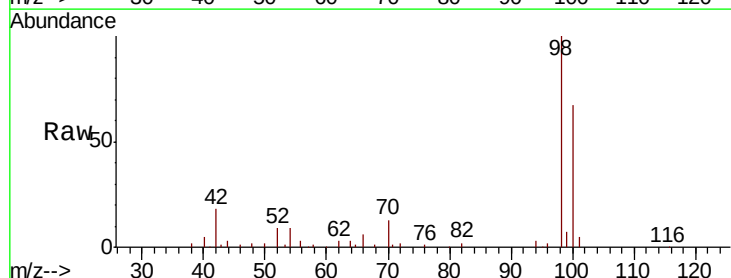


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

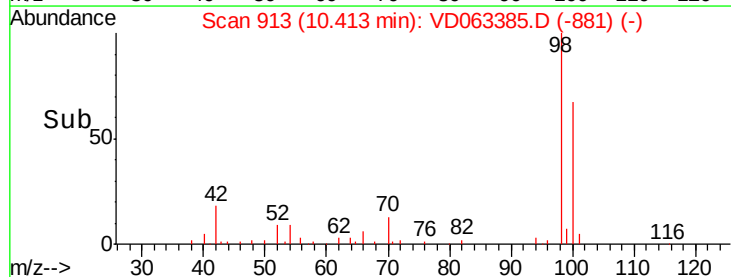
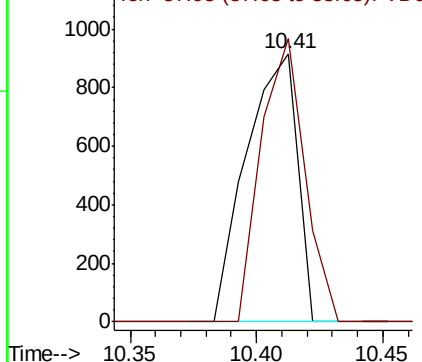


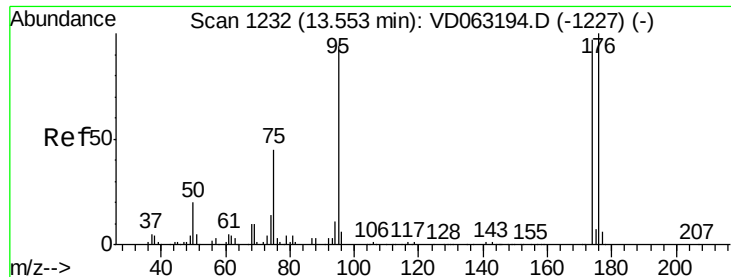
#51
4-Methyl-2-Pentanone
Concen: 1.820 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.12 min
Lab File: VD063385.D
Acq: 5 Aug 2019 17:16

Tgt Ion: 43 Resp: 1292
Ion Ratio Lower Upper
43 100
58 105.5 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 52.261 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063385.D

Acq: 5 Aug 2019 17:16

Instrument :

MSVOA_D

ClientSampleId :

1S-F2-(30)RE

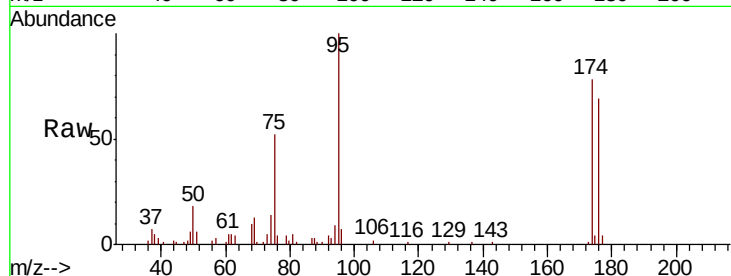
Tgt Ion: 95 Resp: 90683

Ion Ratio Lower Upper

95 100

174 78.1 0.0 205.4

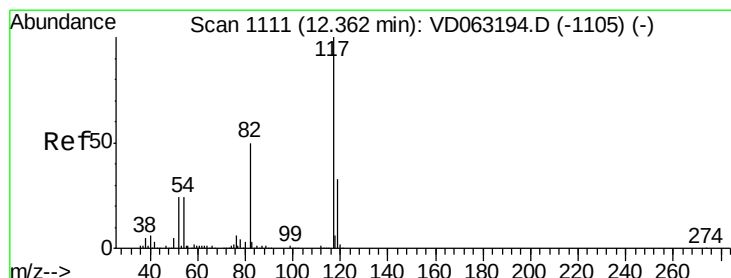
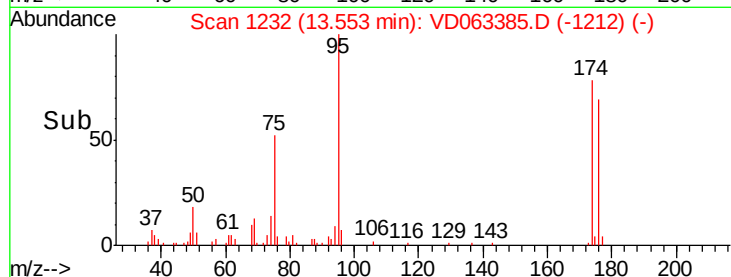
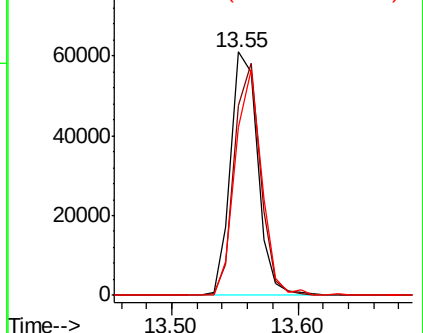
176 68.9 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD063385.D

Acq: 5 Aug 2019 17:16

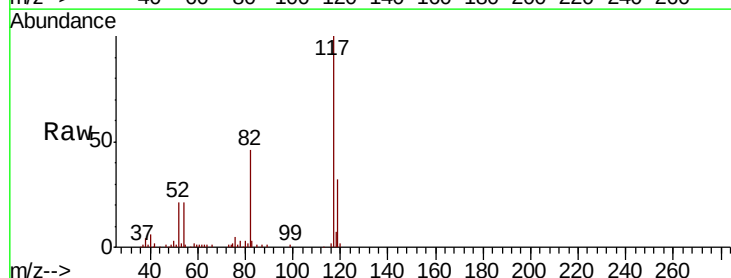
Tgt Ion: 117 Resp: 197605

Ion Ratio Lower Upper

117 100

82 46.4 40.1 60.1

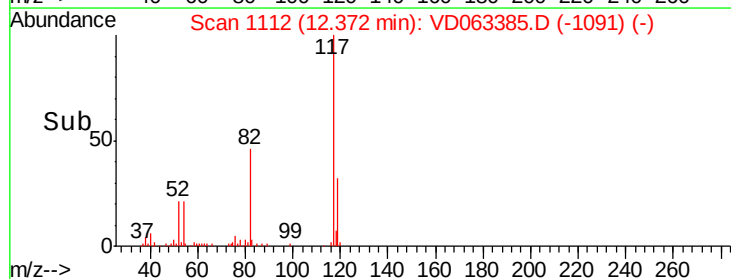
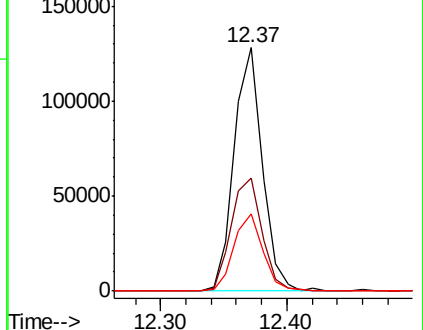
119 31.5 26.5 39.7

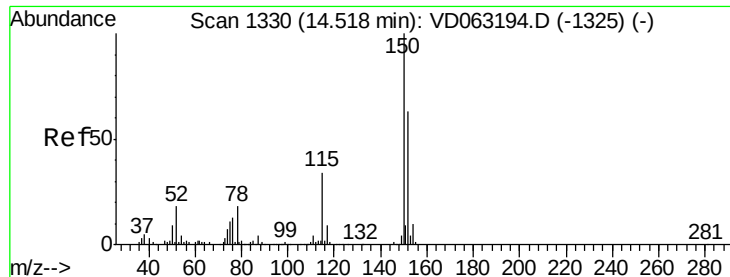


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD063385.D

Acq: 5 Aug 2019 17:16

Instrument :

MSVOA_D

ClientSampleId :

1S-F2-(30)RE

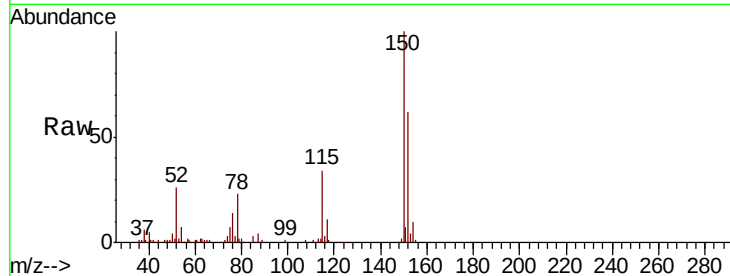
Tgt Ion:152 Resp: 106452

Ion Ratio Lower Upper

152 100

115 54.7 27.5 82.4

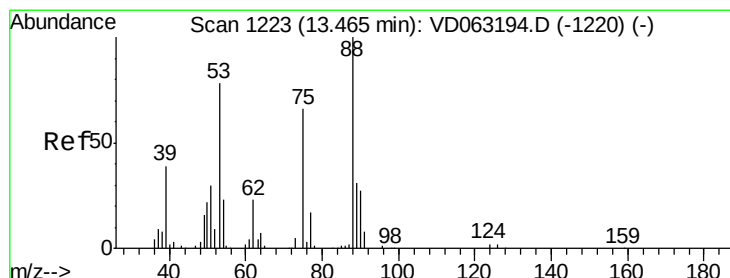
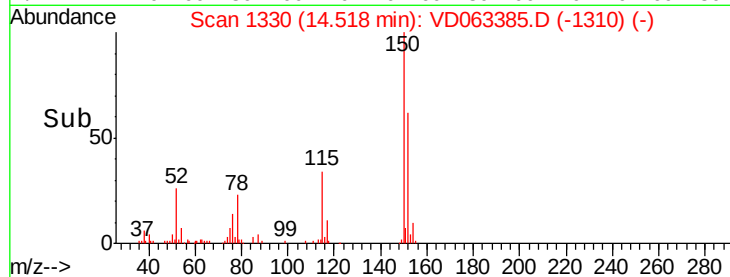
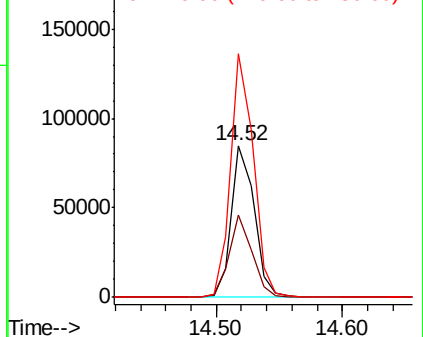
150 160.5 0.0 320.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 124.921 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063385.D

Acq: 5 Aug 2019 17:16

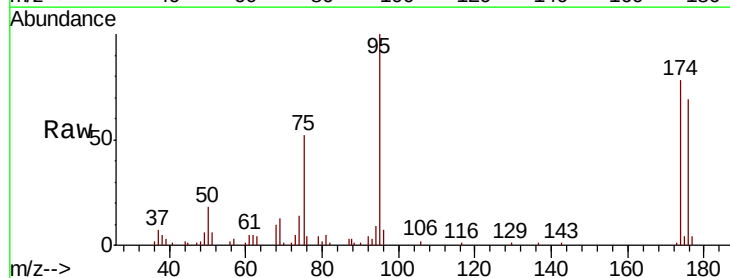
Tgt Ion: 75 Resp: 44353

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

89 0.0 37.4 56.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

