

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071719\
 Data File : VD063130.D
 Acq On : 17 Jul 2019 14:39
 Operator : VA/AP
 Sample : K3826-03
 Misc : 5.14g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 18 06:56:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	611293	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	845772	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	665146	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	323748	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	336507	44.19	ug/l	0.00
Spiked Amount			Recovery	=	88.38%	
35) Dibromofluoromethane	6.93	113	372131	44.17	ug/l	0.01
Spiked Amount			Recovery	=	88.34%	
50) Toluene-d8	10.41	98	743216	41.07	ug/l	0.01
Spiked Amount			Recovery	=	82.14%	
62) 4-Bromofluorobenzene	13.55	95	295275	35.27	ug/l	0.00
Spiked Amount			Recovery	=	70.54%	

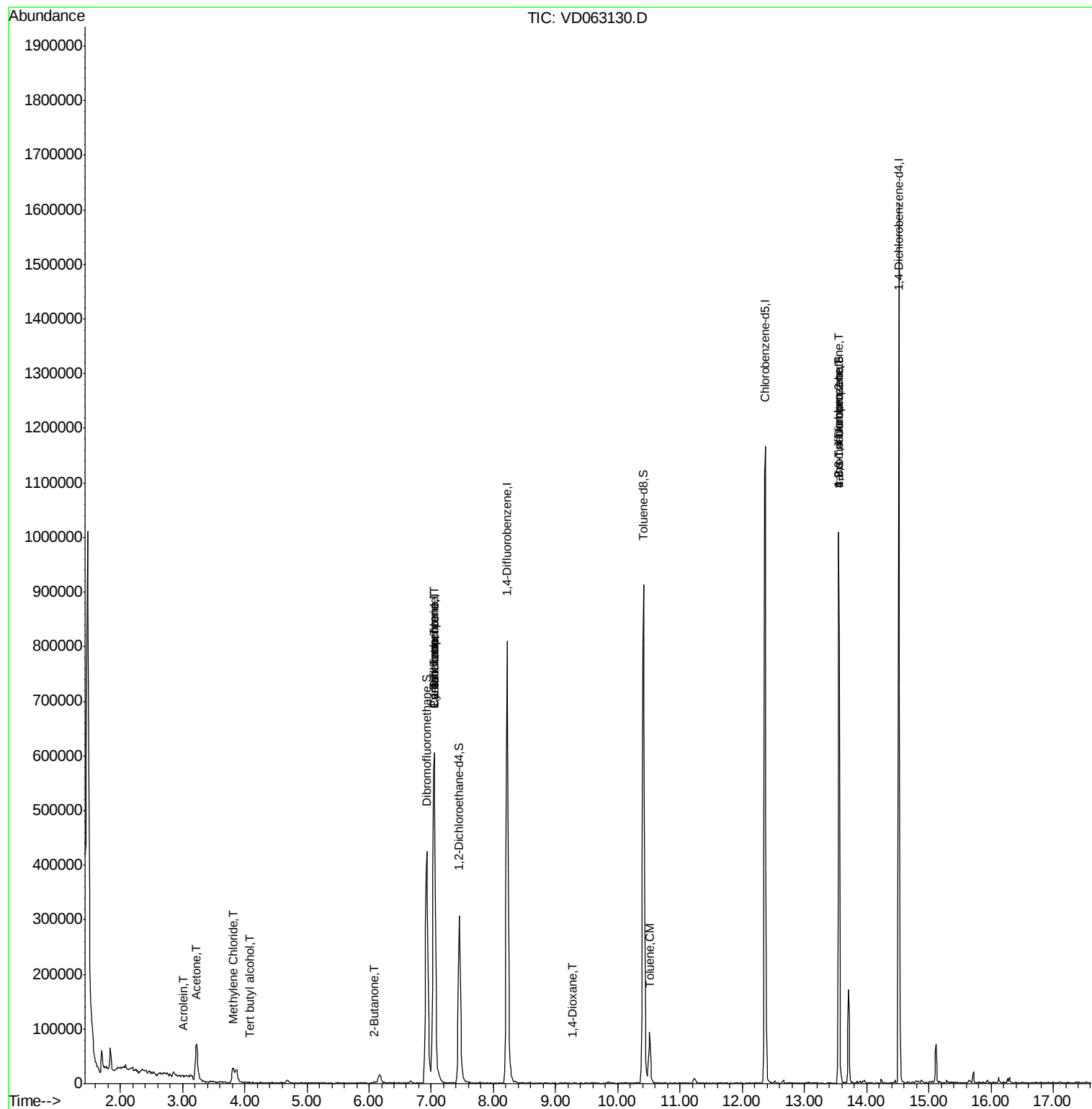
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.55	85	781	Below Cal	#	43
3) Chloromethane	1.73	50	672	Below Cal	#	48
5) Bromomethane	2.17	94	1813	Below Cal	#	30
11) Tert butyl alcohol	4.07	59	828	1.884	ug/l #	77
13) Acrolein	3.01	56	230	1.734	ug/l #	39
16) Acetone	3.22	43	142345	77.395	ug/l	99
18) Methyl Acetate	3.62	43	1075	Below Cal	#	63
20) Methylene Chloride	3.81	84	18273	2.630	ug/l #	80
25) 2-Butanone	6.08	43	3600	2.050	ug/l #	61
31) Cyclohexane	7.05	56	11913	1.643	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	45071	4.738	ug/l #	53
38) Carbon Tetrachloride	7.04	117	59009	4.083	ug/l #	13
49) 1,4-Dioxane	9.27	88	180	5.447	ug/l #	27
52) Toluene	10.51	92	43234	3.250	ug/l	90
76) 1,2,3-Trichloropropane	13.55	75	106948	21.475	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	133874	102.080	ug/l #	1

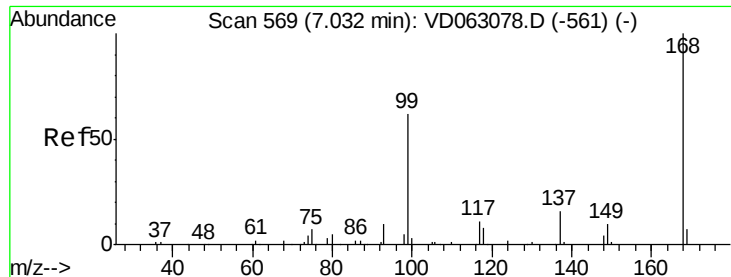
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063130.D

Acq: 17 Jul 2019 14:39

Instrument :

MSVOA_D

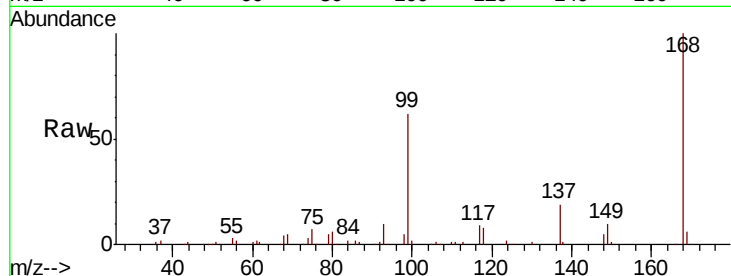
ClientSampleId :

Tot Ion:168 Resp: 611293

Ion Ratio Lower Upper

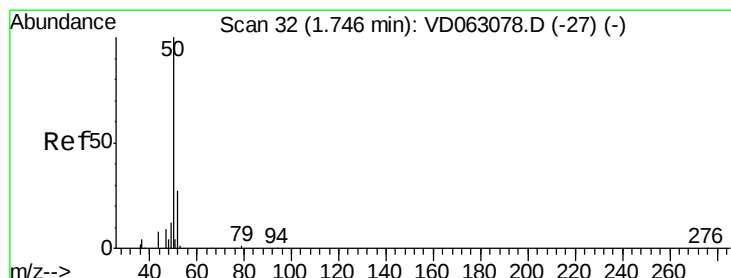
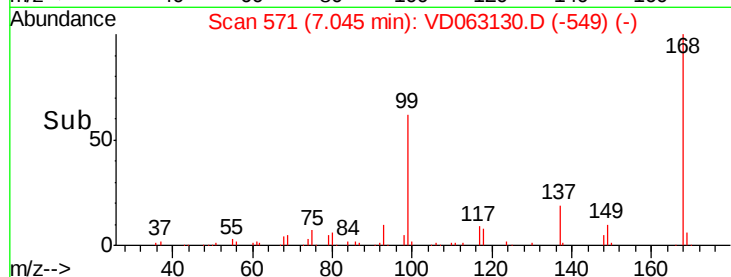
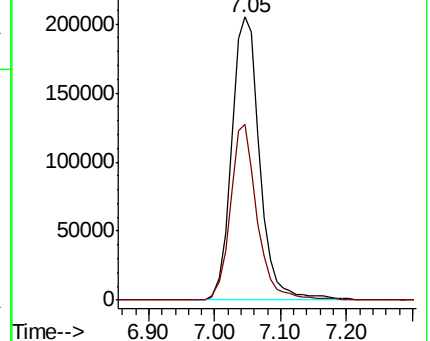
168 100

99 62.2 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.73 min Scan# 31

Delta R.T. -0.02 min

Lab File: VD063130.D

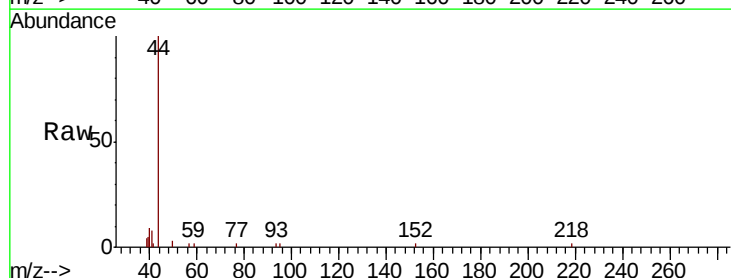
Acq: 17 Jul 2019 14:39

Tgt Ion: 50 Resp: 672

Ion Ratio Lower Upper

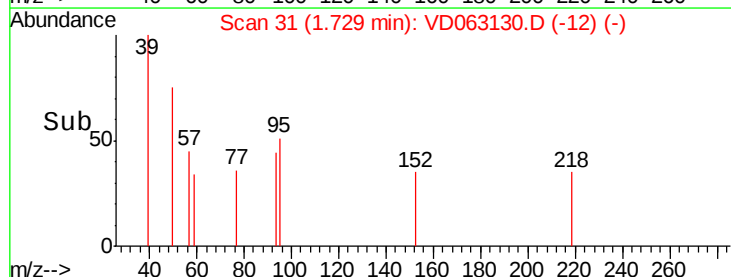
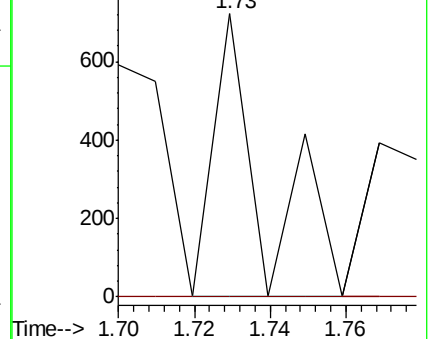
50 100

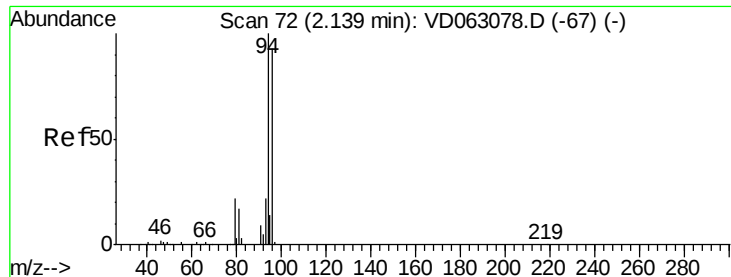
52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.17 min Scan# 76

Delta R.T. 0.03 min

Lab File: VD063130.D

Acq: 17 Jul 2019 14:39

Instrument :

MSVOA_D

ClientSampleId :

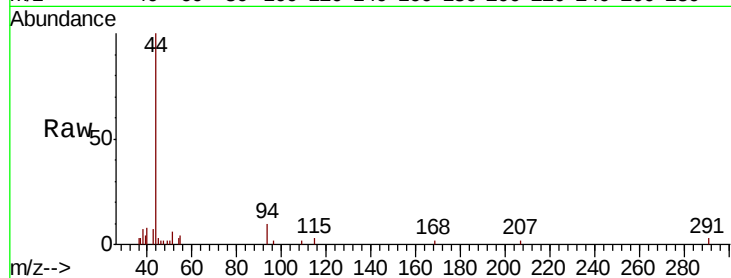
Tot Ion: 94 Resp: 1813

Ion Ratio Lower Upper

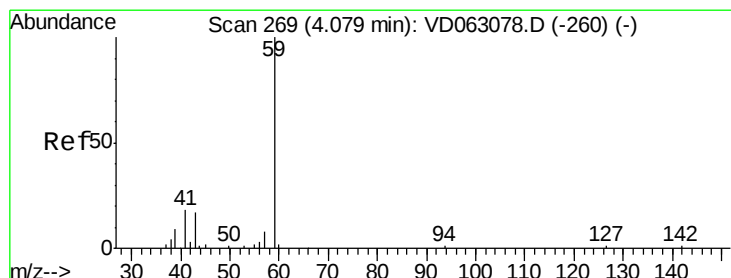
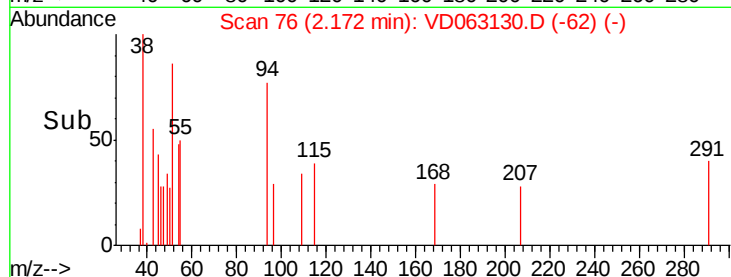
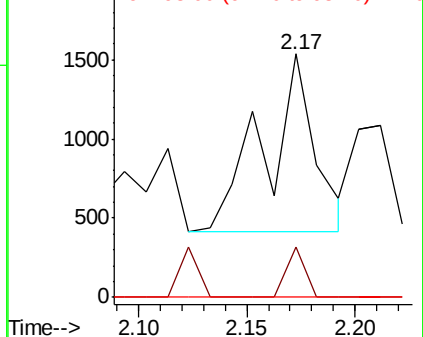
94 100

96 20.8 74.2 111.2#

93 0.0 17.8 26.6#



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#11

Tert butyl alcohol

Concen: 1.884 ug/l

RT: 4.07 min Scan# 269

Delta R.T. -0.01 min

Lab File: VD063130.D

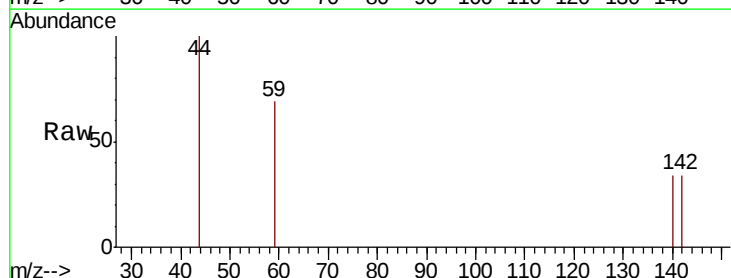
Acq: 17 Jul 2019 14:39

Tgt Ion: 59 Resp: 828

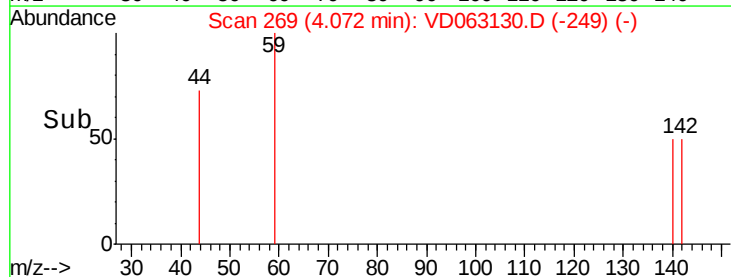
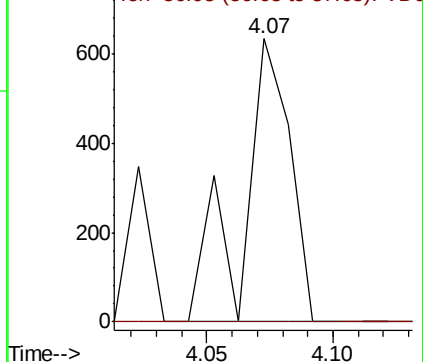
Ion Ratio Lower Upper

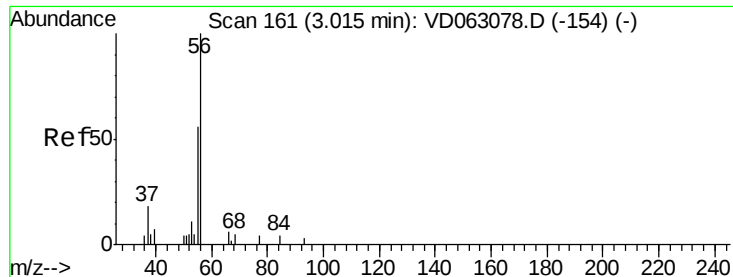
59 100

57 0.0 6.4 9.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.734 ug/l

RT: 3.01 min Scan# 161

Delta R.T. -0.01 min

Lab File: VD063130.D

Acq: 17 Jul 2019 14:39

Instrument :

MSVOA_D

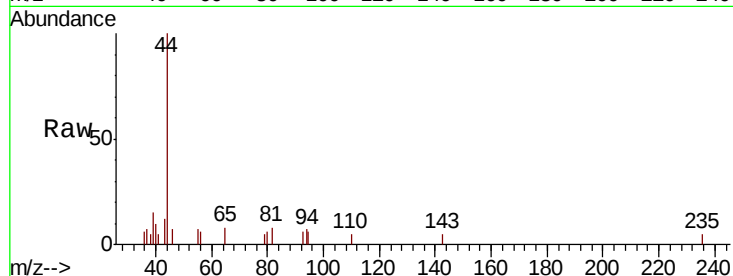
ClientSampleId :

Tot Ion: 56 Resp: 230

Ion Ratio Lower Upper

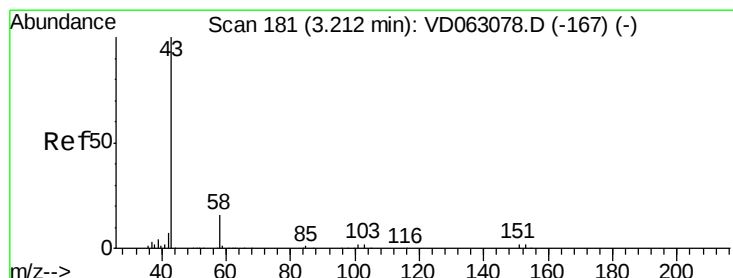
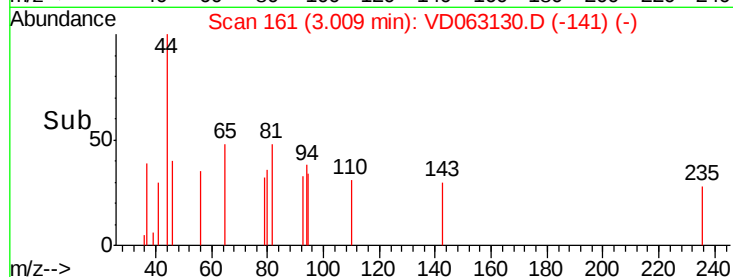
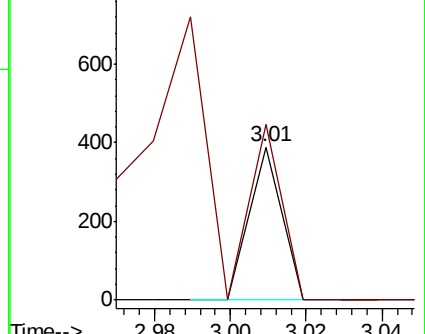
56 100

55 114.9 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 77.395 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063130.D

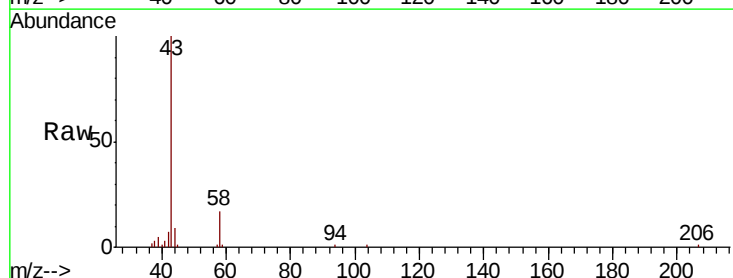
Acq: 17 Jul 2019 14:39

Tgt Ion: 43 Resp: 142345

Ion Ratio Lower Upper

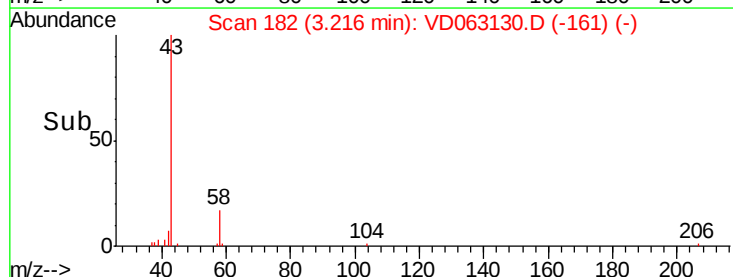
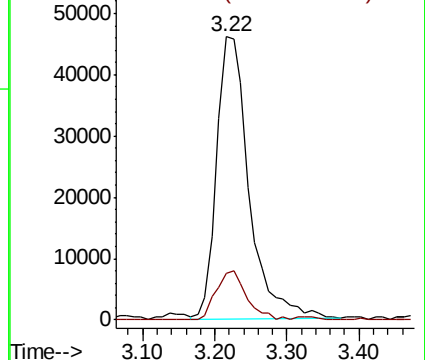
43 100

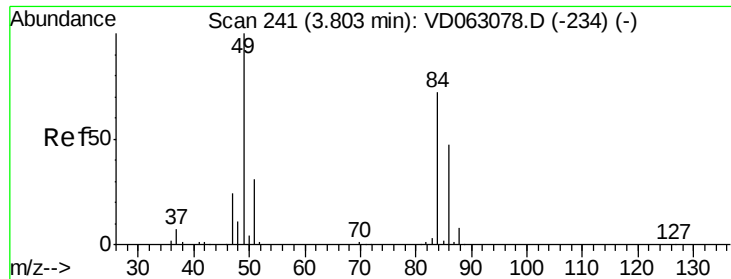
58 16.6 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

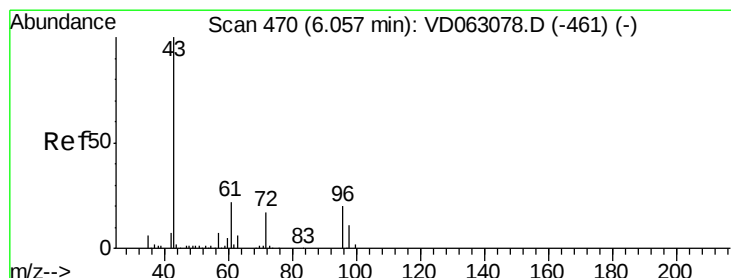
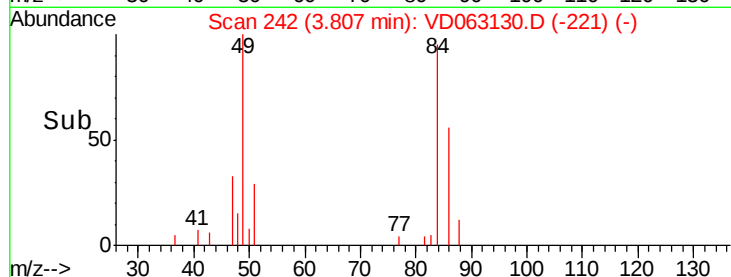
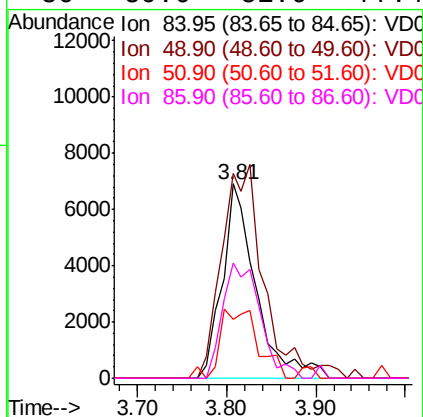
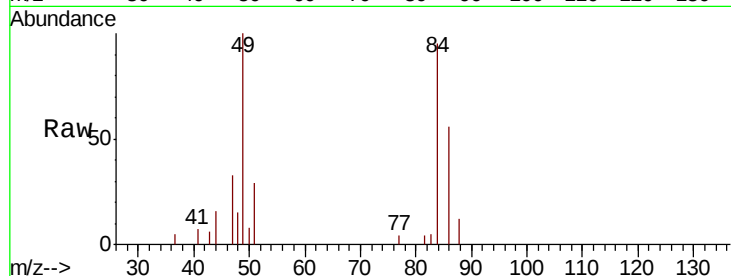




#20
Methylene Chloride
Concen: 2.630 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD063130.D
Acq: 17 Jul 2019 14:39

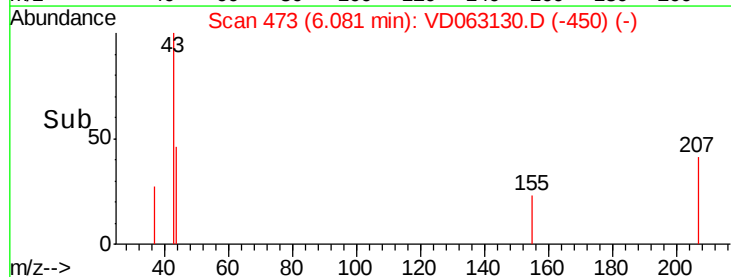
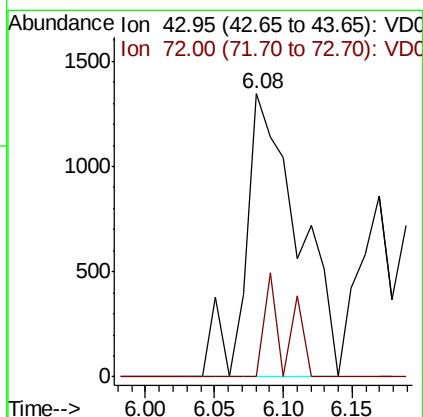
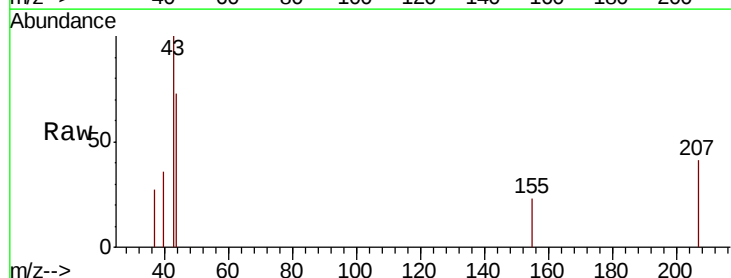
Instrument :
MSVOA_D
ClientSampleId :

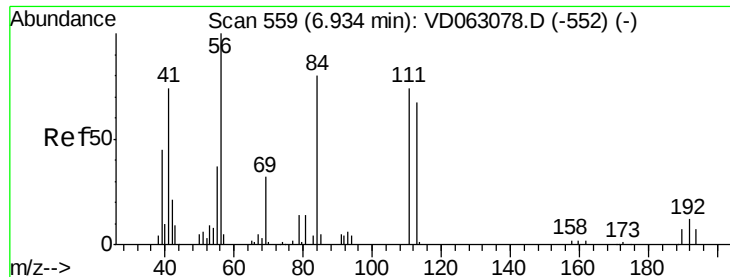
Tot Ion: 84 Resp: 18273
Ion Ratio Lower Upper
84 100
49 105.5 110.5 165.7#
51 30.6 34.6 51.8#
86 59.6 51.6 77.4



#25
2-Butanone
Concen: 2.050 ug/l
RT: 6.08 min Scan# 473
Delta R.T. 0.02 min
Lab File: VD063130.D
Acq: 17 Jul 2019 14:39

Tgt Ion: 43 Resp: 3600
Ion Ratio Lower Upper
43 100
72 0.0 13.4 20.0#

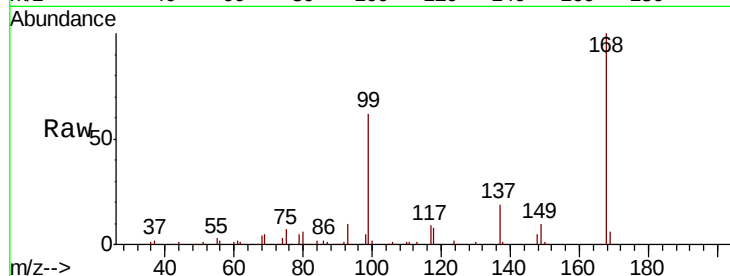




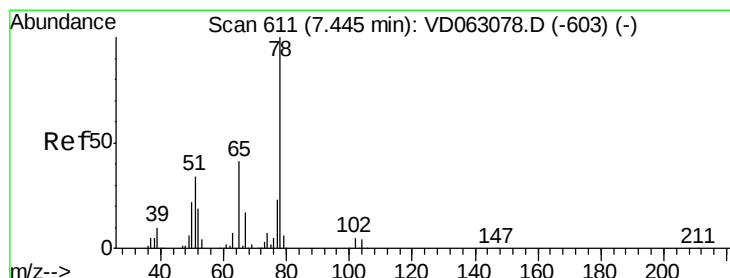
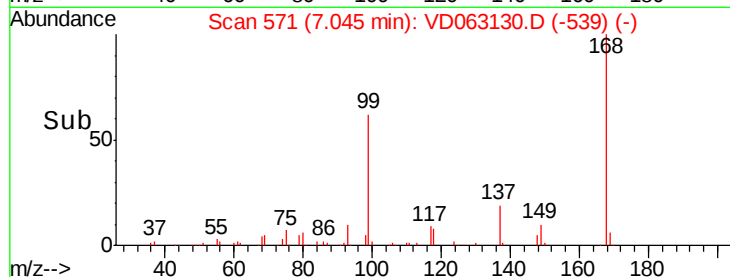
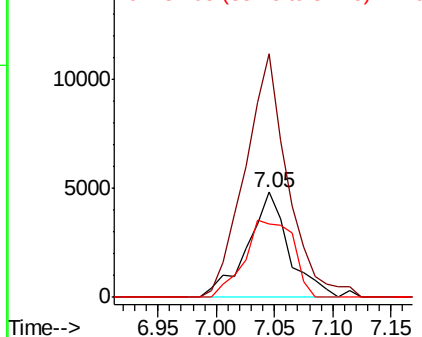
#31
Cyclohexane
Concen: 1.643 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.11 min
Lab File: VD063130.D
Acq: 17 Jul 2019 14:39

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 56 Resp: 11913
Ion Ratio Lower Upper
56 100
69 231.2 25.3 37.9#
84 69.8 64.2 96.4

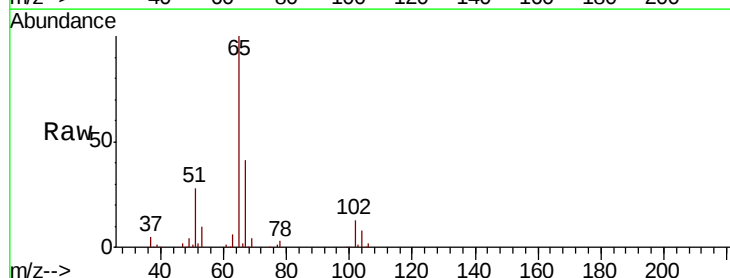


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

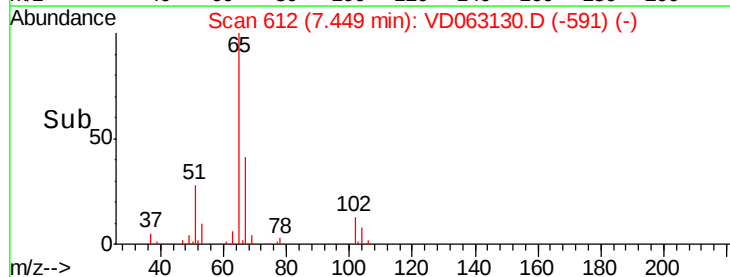
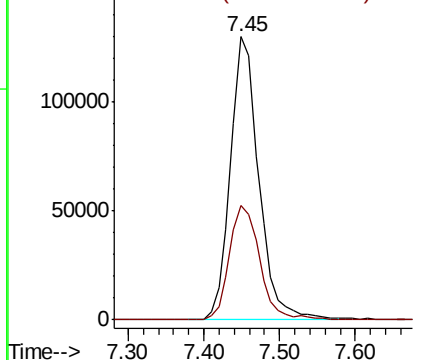


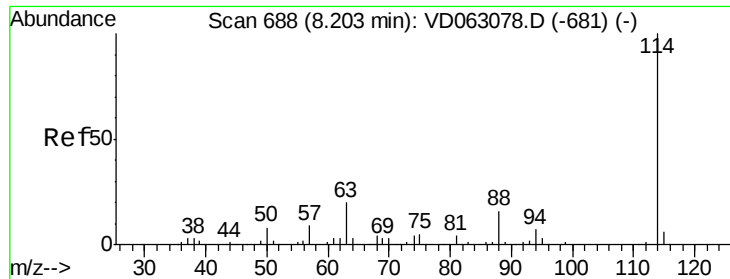
#33
1,2-Dichloroethane-d4
Concen: 44.191 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.00 min
Lab File: VD063130.D
Acq: 17 Jul 2019 14:39

Tgt Ion: 65 Resp: 336507
Ion Ratio Lower Upper
65 100
67 40.5 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

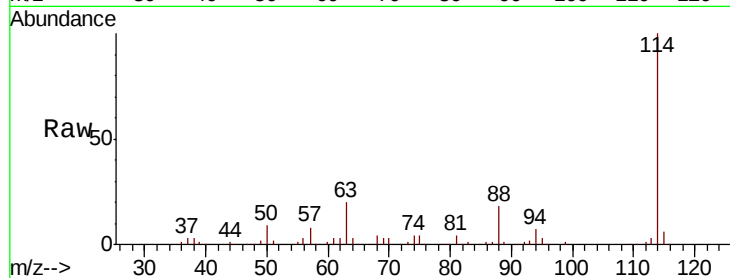




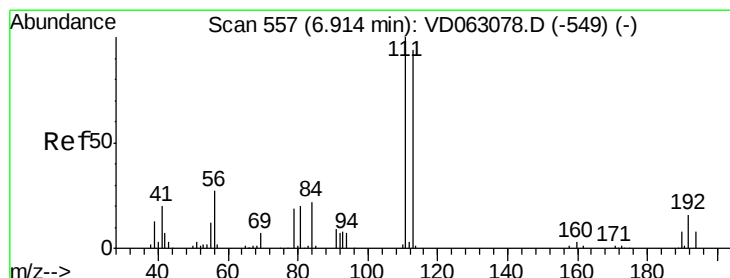
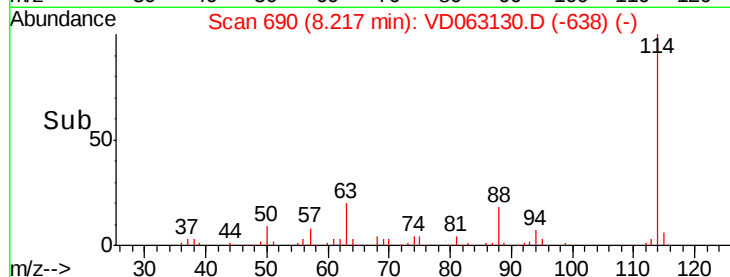
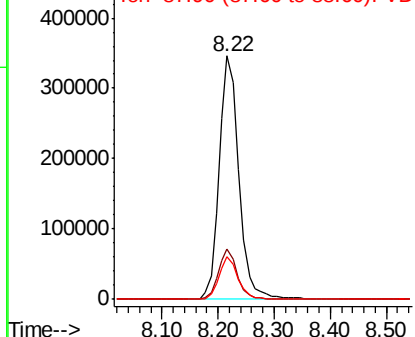
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.22 min Scan# 690
Delta R.T. 0.01 min
Lab File: VD063130.D
Acq: 17 Jul 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:114 Resp: 845772
Ion Ratio Lower Upper
114 100
63 20.4 0.0 40.6
88 17.5 0.0 32.6

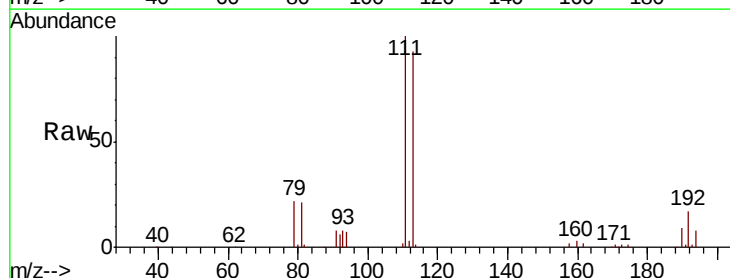


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): V
Ion 87.90 (87.60 to 88.60): V

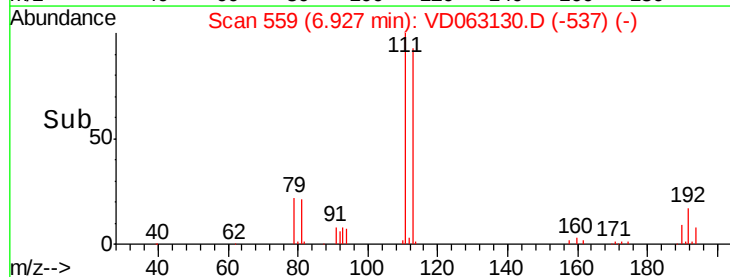
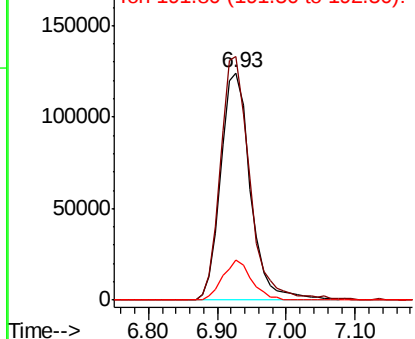


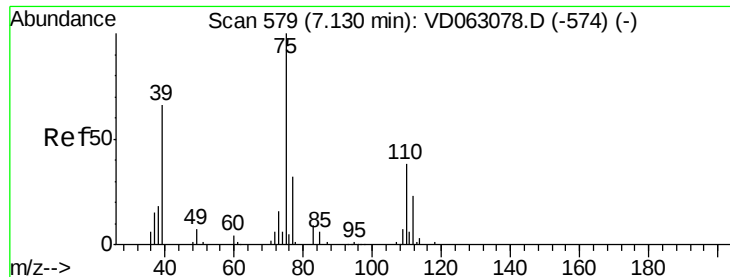
#35
Dibromofluoromethane
Concen: 44.175 ug/l
RT: 6.93 min Scan# 559
Delta R.T. 0.01 min
Lab File: VD063130.D
Acq: 17 Jul 2019 14:39

Tgt Ion:113 Resp: 372131
Ion Ratio Lower Upper
113 100
111 107.2 84.8 127.2
192 17.7 13.4 20.0



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: 4.738 ug/l

RT: 7.04 min Scan# 570

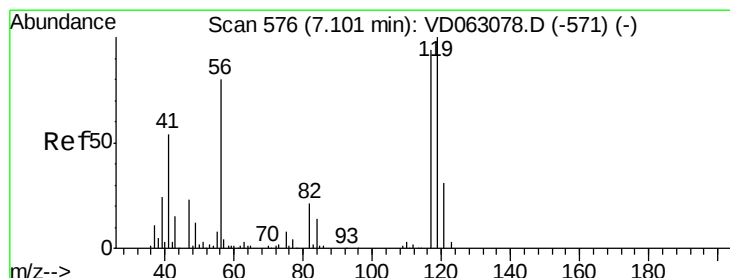
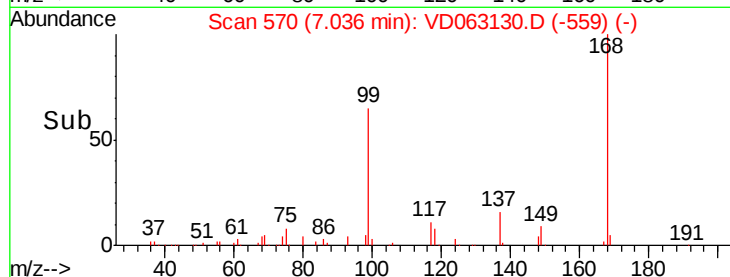
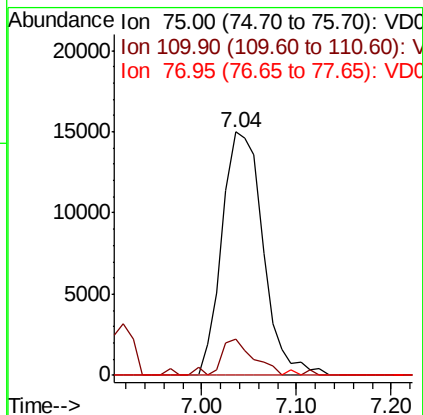
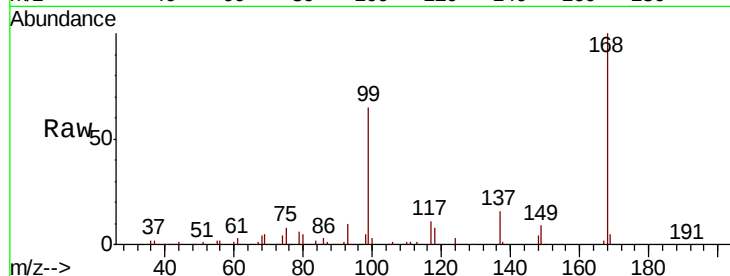
Delta R.T. -0.09 min

Lab File: VD063130.D

Acq: 17 Jul 2019 14:39

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 75 Resp: 45071
Ion Ratio Lower Upper
75 100
110 14.7 18.9 56.5#
77 0.0 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 4.083 ug/l

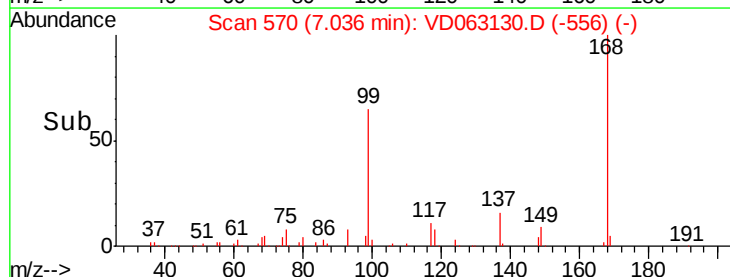
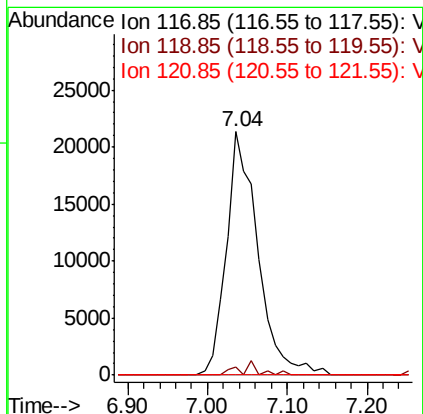
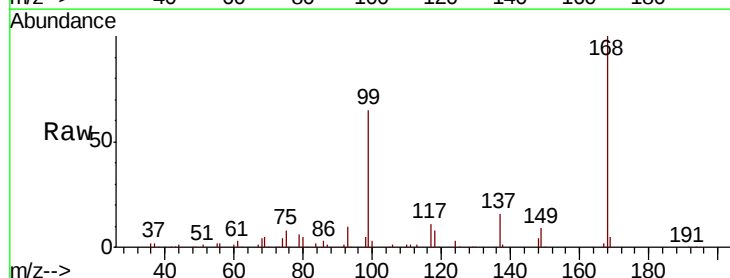
RT: 7.04 min Scan# 570

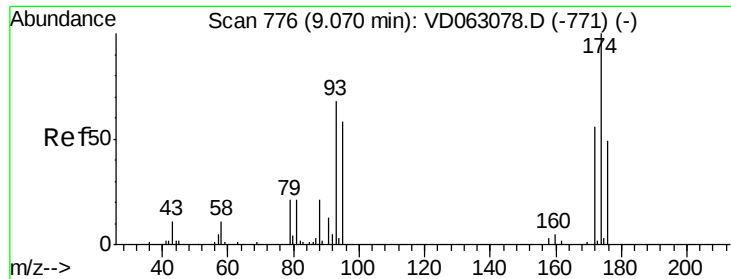
Delta R.T. -0.07 min

Lab File: VD063130.D

Acq: 17 Jul 2019 14:39

Tgt Ion: 117 Resp: 59009
Ion Ratio Lower Upper
117 100
119 3.1 80.0 120.0#
121 0.0 25.0 37.4#

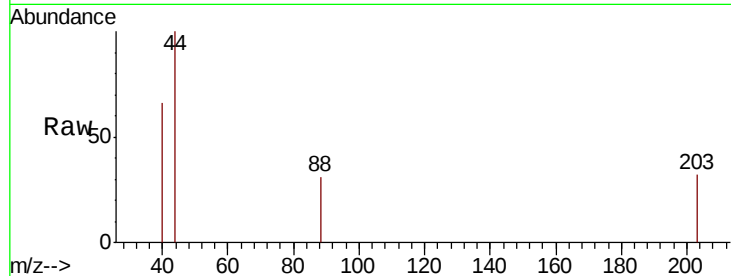




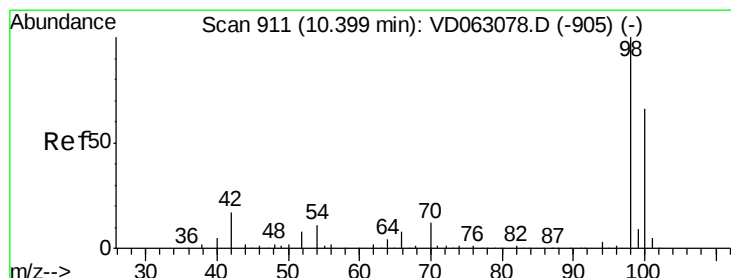
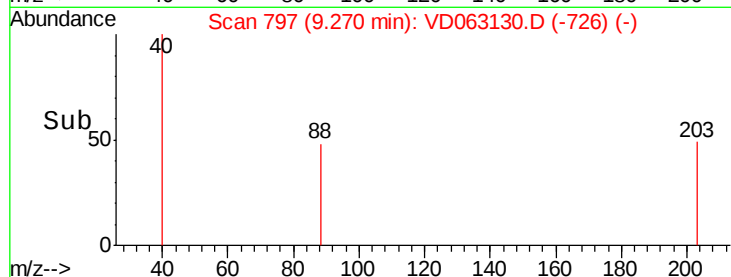
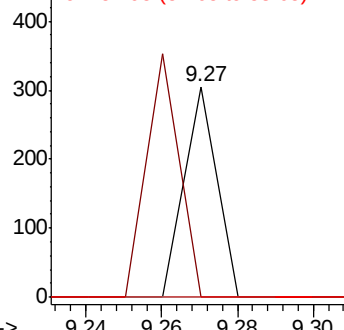
#49
1,4-Dioxane
Concen: 5.447 ug/l
RT: 9.27 min Scan# 797
Delta R.T. 0.20 min
Lab File: VD063130.D
Acq: 17 Jul 2019 14:39

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 88 Resp: 180
Ion Ratio Lower Upper
88 100
43 0.0 40.2 60.4#
58 0.0 41.6 62.4#

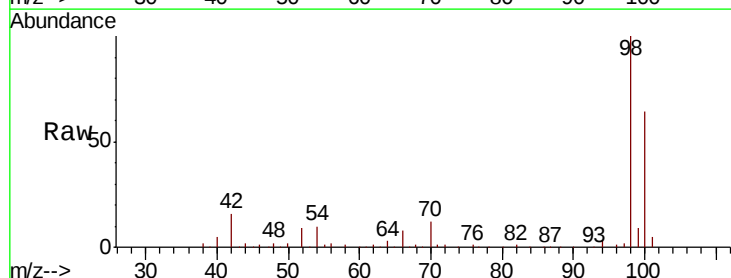


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

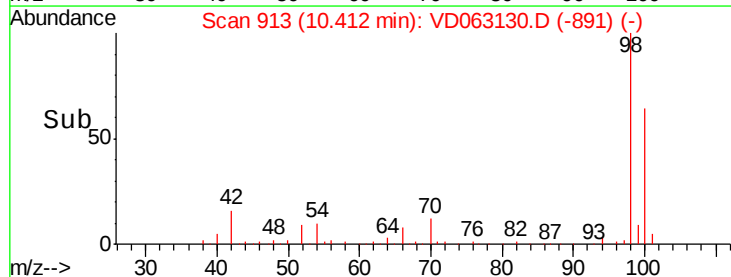
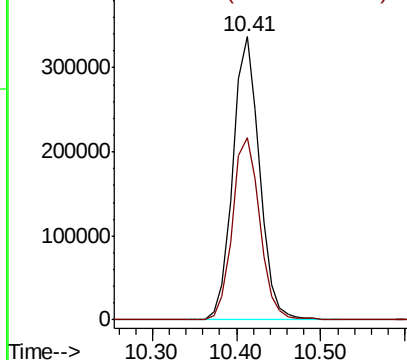


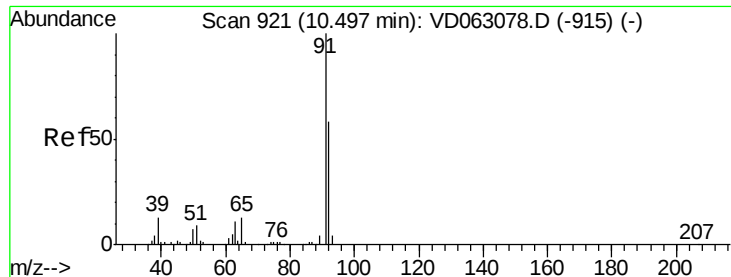
#50
Toluene-d8
Concen: 41.073 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063130.D
Acq: 17 Jul 2019 14:39

Tgt Ion: 98 Resp: 743216
Ion Ratio Lower Upper
98 100
100 64.4 53.5 80.3



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





#52

Toluene

Concen: 3.250 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.01 min

Lab File: VD063130.D

Acq: 17 Jul 2019 14:39

Instrument :

MSVOA_D

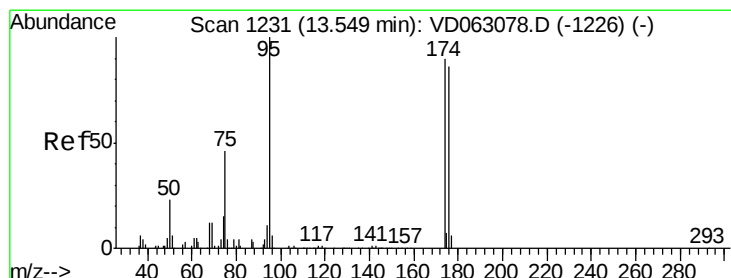
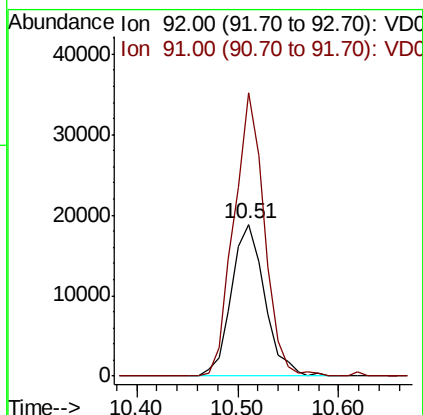
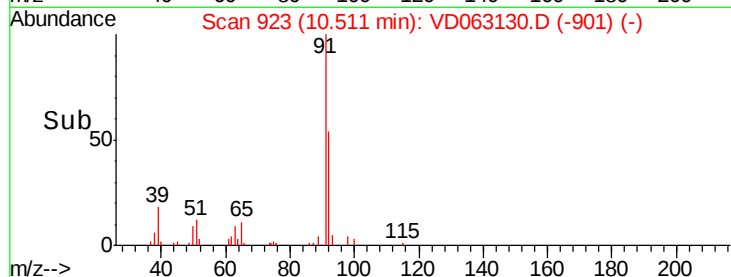
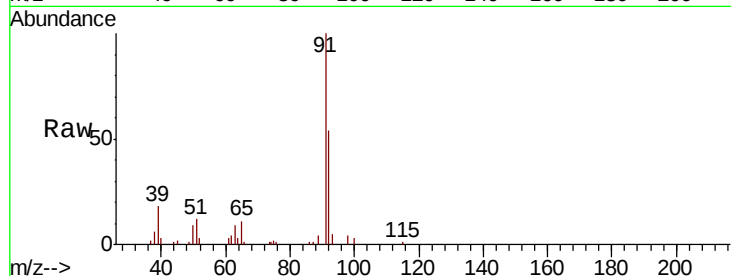
ClientSampleId :

Tot Ion: 92 Resp: 43234

Ion Ratio Lower Upper

92 100

91 186.1 137.9 206.9



#62

4-Bromofluorobenzene

Concen: 35.272 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063130.D

Acq: 17 Jul 2019 14:39

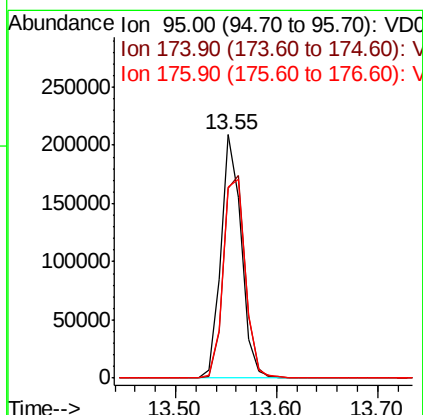
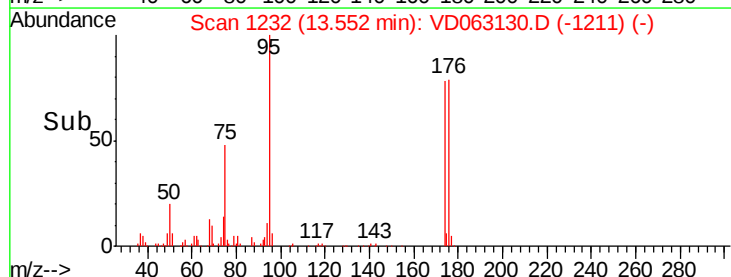
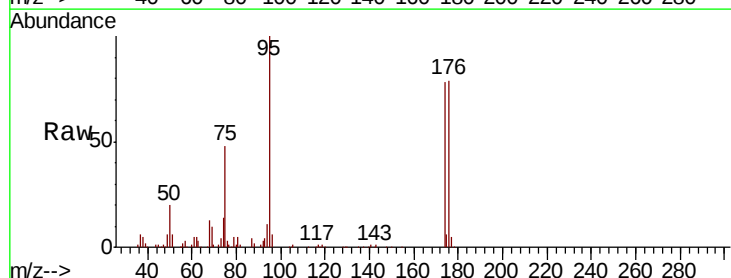
Tgt Ion: 95 Resp: 295275

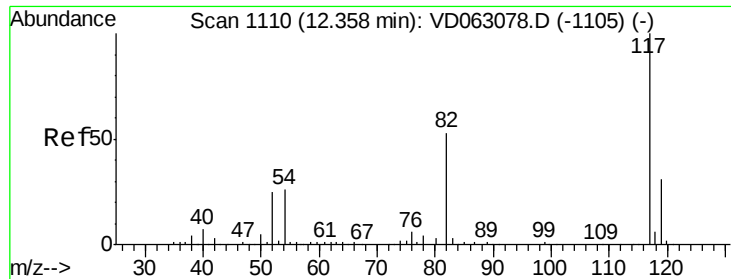
Ion Ratio Lower Upper

95 100

174 78.0 0.0 180.6

176 78.6 0.0 172.2

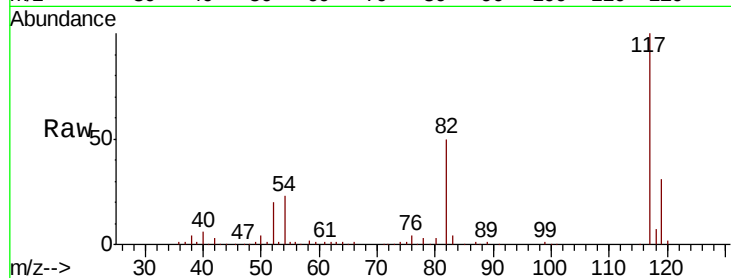




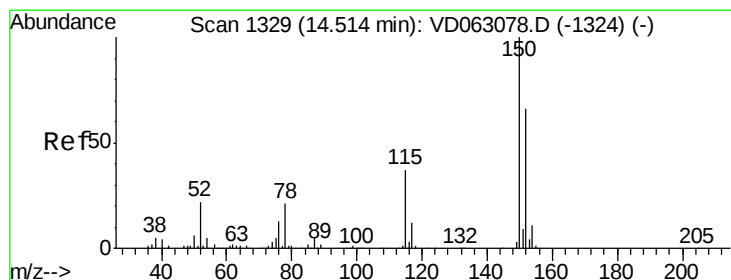
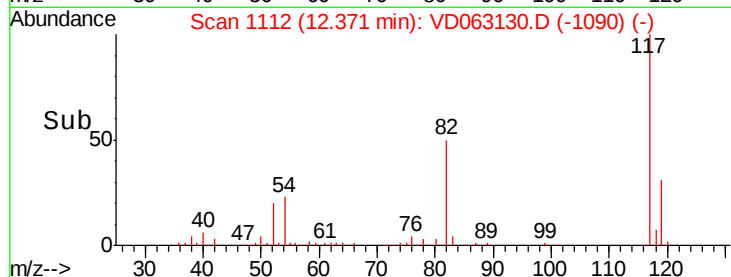
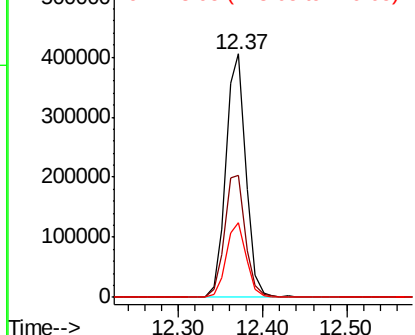
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063130.D
Acq: 17 Jul 2019 14:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 665146
Ion Ratio Lower Upper
117 100
82 50.2 42.3 63.5
119 30.7 25.2 37.8

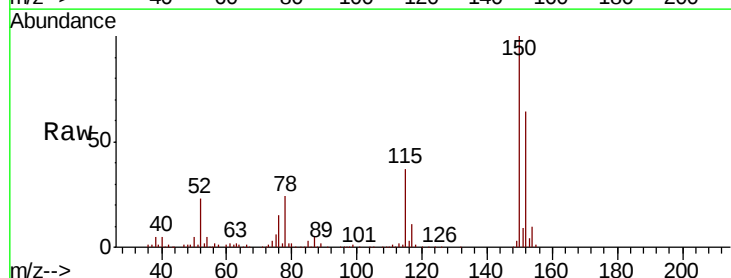


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

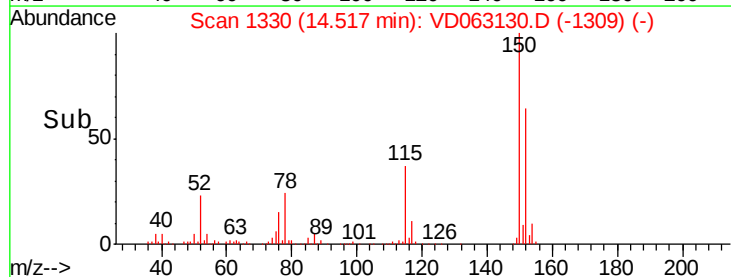
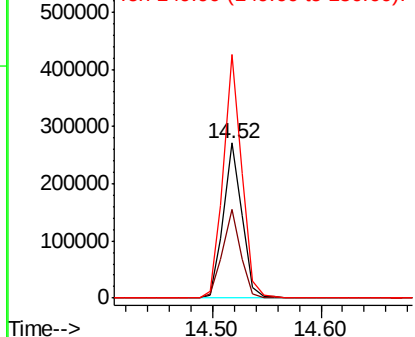


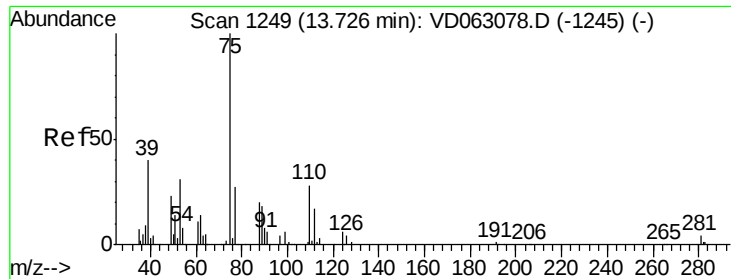
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063130.D
Acq: 17 Jul 2019 14:39

Tgt Ion:152 Resp: 323748
Ion Ratio Lower Upper
152 100
115 57.7 28.9 86.8
150 157.3 0.0 313.8



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





#76

1,2,3-Trichloropropane

Concen: 21.475 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063130.D

Acq: 17 Jul 2019 14:39

Instrument :

MSVOA_D

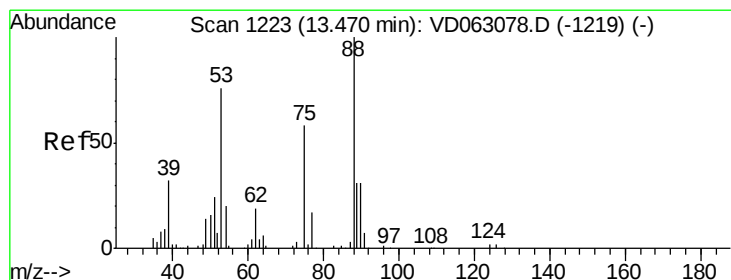
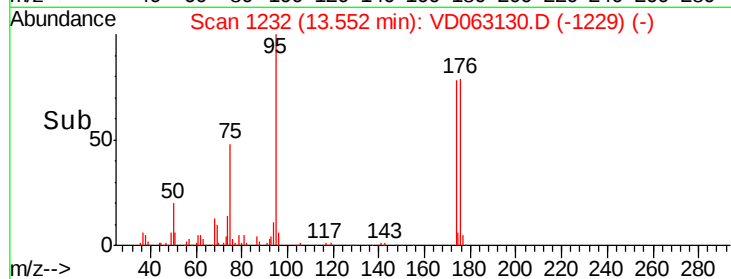
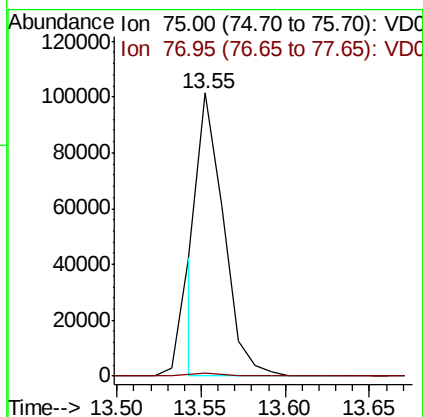
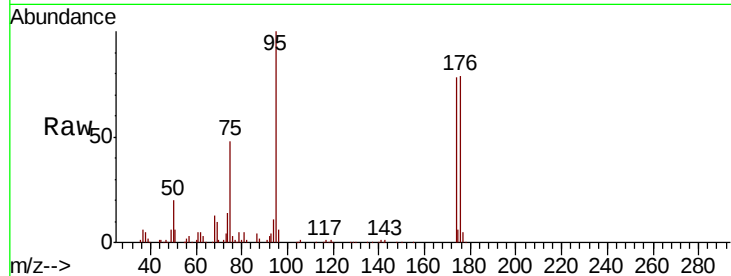
ClientSampleId :

Tot Ion: 75 Resp: 106948

Ion Ratio Lower Upper

75 100

77 1.3 16.3 48.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 102.080 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063130.D

Acq: 17 Jul 2019 14:39

Tgt Ion: 75 Resp: 133874

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

