

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062750.D
 Acq On : 18 Jun 2019 15:31
 Operator : VA/AP
 Sample : K3419-04
 Misc : 3.88g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:25:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	888657	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1192053	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	955162	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	464665	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	438480	34.19	ug/l	0.00
Spiked Amount			Recovery	=	68.38%	
35) Dibromofluoromethane	6.93	113	488207	38.83	ug/l	0.00
Spiked Amount			Recovery	=	77.66%	
50) Toluene-d8	10.41	98	1025715	38.78	ug/l	0.00
Spiked Amount			Recovery	=	77.56%	
62) 4-Bromofluorobenzene	13.55	95	450873	36.54	ug/l	0.00
Spiked Amount			Recovery	=	73.08%	

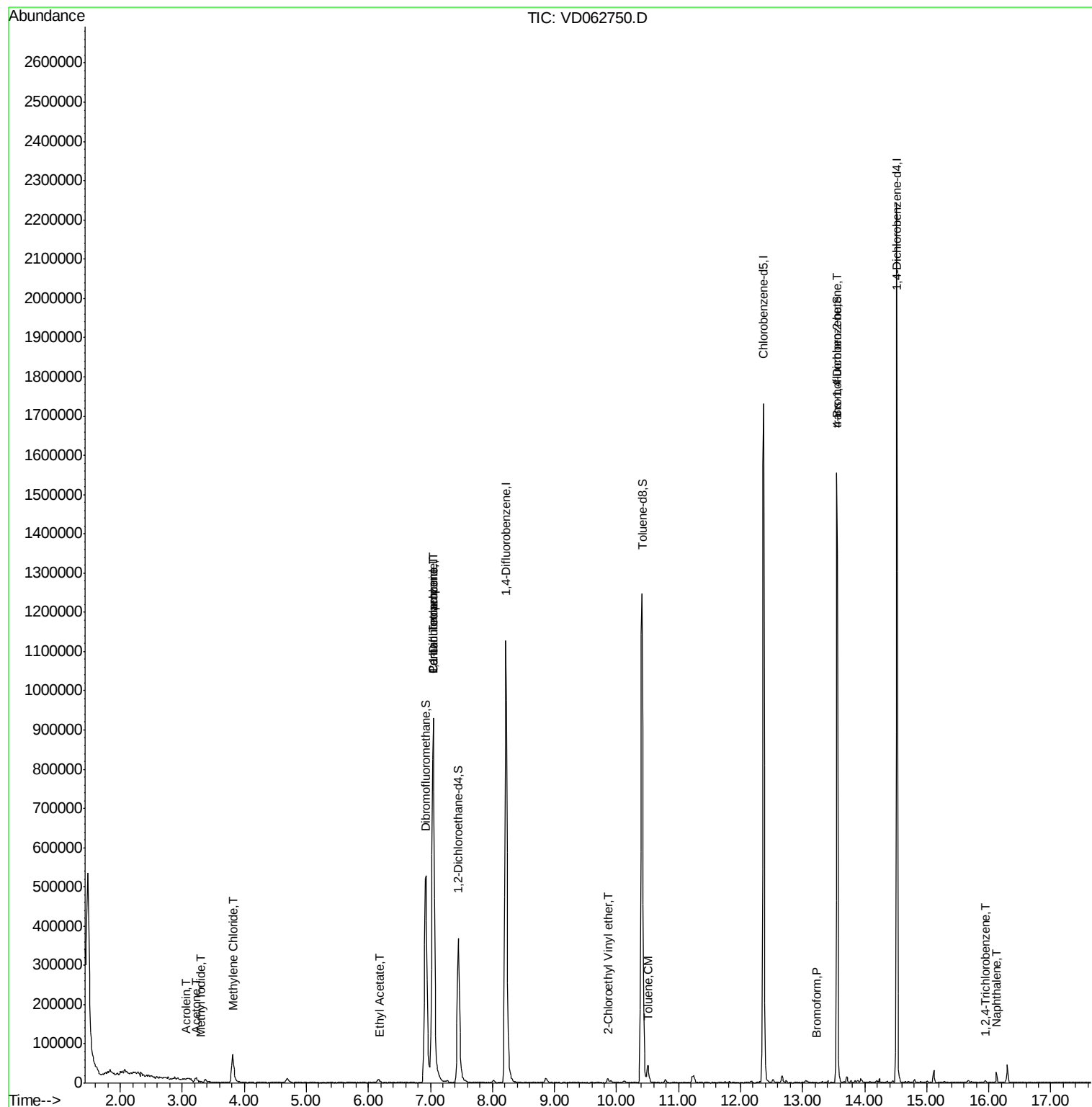
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	815	Below Cal	#	42
10) Methyl Iodide	3.30	142	250	4.023	ug/l #	78
13) Acrolein	3.08	56	240	1.415	ug/l #	12
16) Acetone	3.23	43	20870	8.888	ug/l #	88
20) Methylene Chloride	3.81	84	41581	4.283	ug/l #	84
36) 1,1-Dichloropropene	7.04	75	70634	5.177	ug/l #	52
37) Ethyl Acetate	6.19	43	292	1.250	ug/l #	74
38) Carbon Tetrachloride	7.04	117	90054	4.176	ug/l #	18
52) Toluene	10.51	92	19288	1.077	ug/l	83
58) 2-Chloroethyl Vinyl ether	9.86	63	3634	1.107	ug/l #	1
71) Bromoform	13.23	173	201	2.856	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.55	75	210421	107.742	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.93	180	847	3.634	ug/l #	34
95) Naphthalene	16.12	128	15841	4.324	ug/l #	87

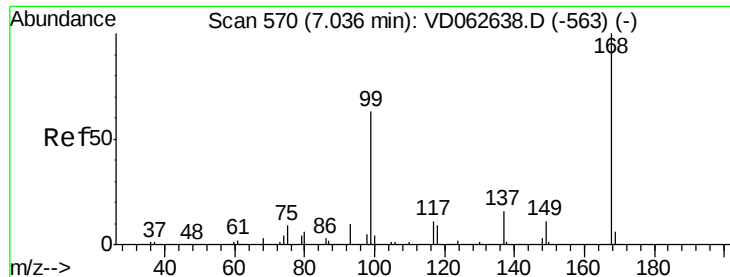
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061819\
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Quant Time: Jun 19 05:25:32 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
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QLast Update : Sat Jun 08 00:02:21 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062750.D

Acq: 18 Jun 2019 15:31

Instrument :

MSVOA_D

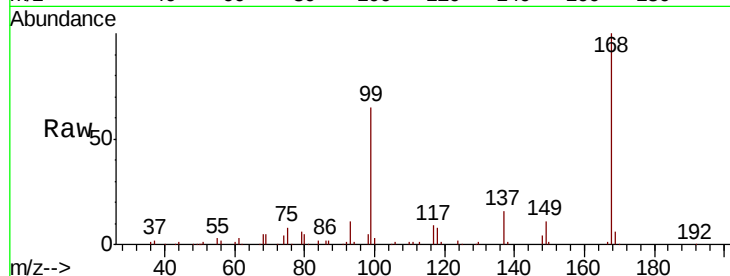
ClientSampleId :

Tot Ion:168 Resp: 888657

Ion Ratio Lower Upper

168 100

99 65.4 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

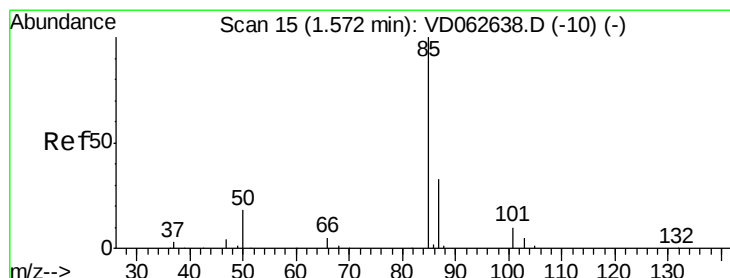
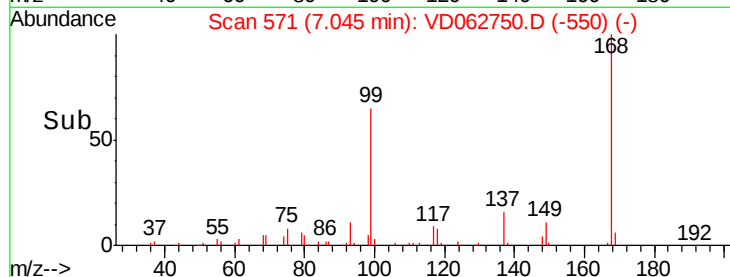
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD062750.D

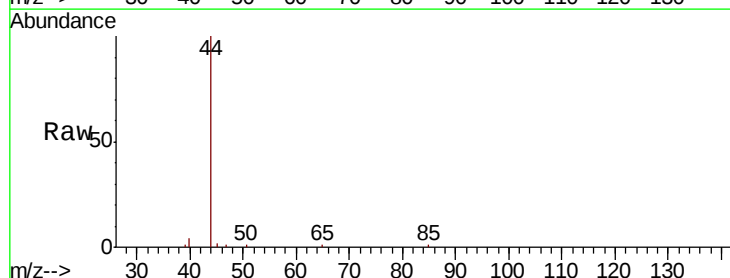
Acq: 18 Jun 2019 15:31

Tgt Ion: 85 Resp: 815

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

800

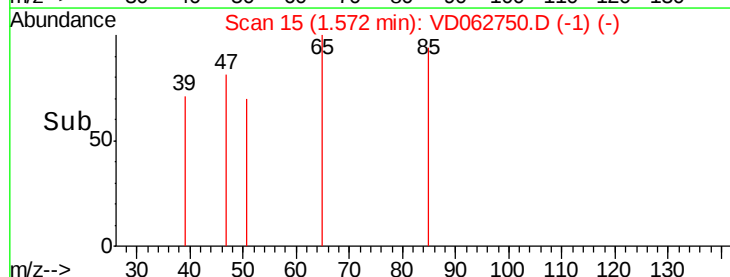
600

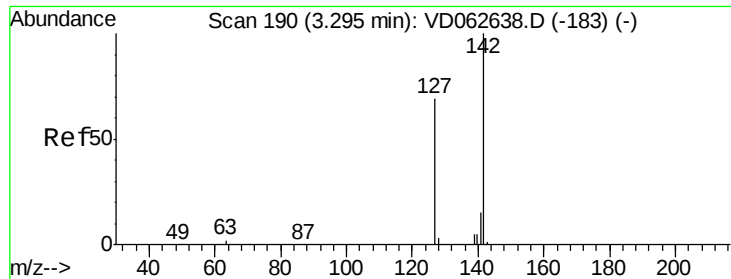
400

200

0

Time-->





#10

Methyl Iodide

Concen: 4.023 ug/l

RT: 3.30 min Scan# 191

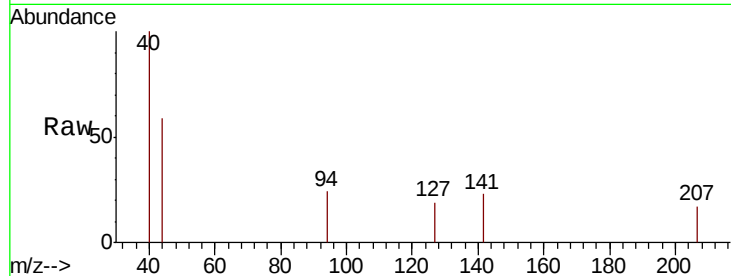
Delta R.T. 0.01 min

Lab File: VD062750.D

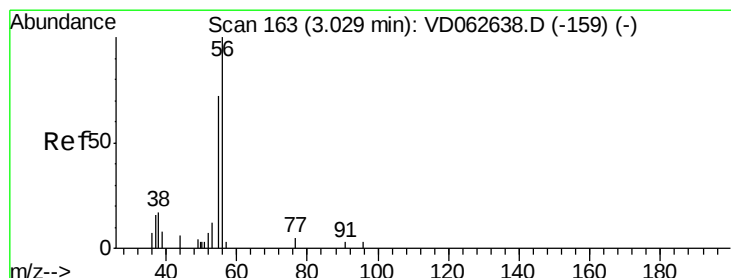
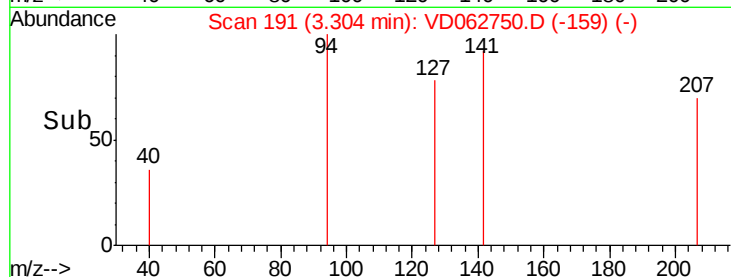
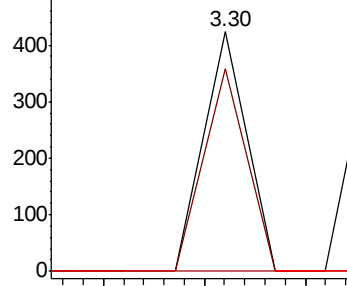
Acq: 18 Jun 2019 15:31

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:142 Resp: 250
Ion Ratio Lower Upper
142 100
127 84.7 55.2 82.8#
141 0.0 12.1 18.1#



Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V



#13

Acrolein

Concen: 1.415 ug/l

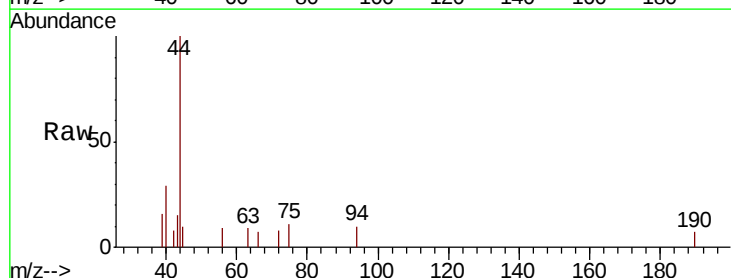
RT: 3.08 min Scan# 168

Delta R.T. 0.05 min

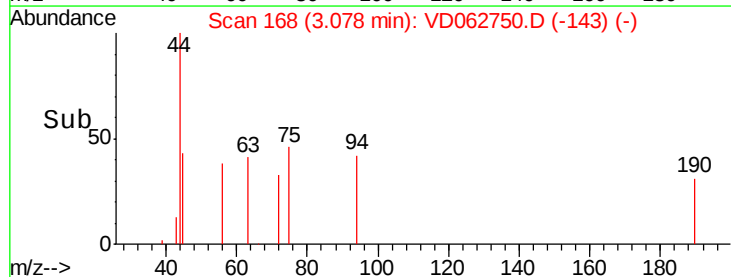
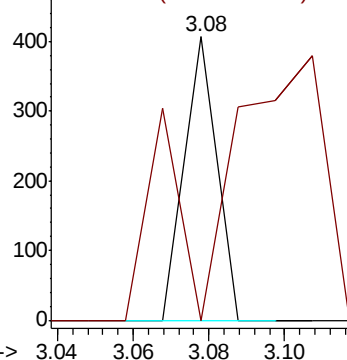
Lab File: VD062750.D

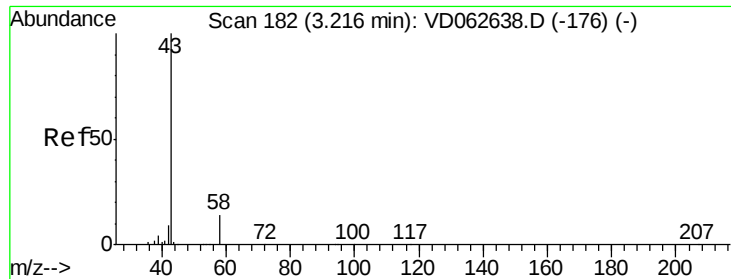
Acq: 18 Jun 2019 15:31

Tgt Ion: 56 Resp: 240
Ion Ratio Lower Upper
56 100
55 0.0 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 8.888 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062750.D

Acq: 18 Jun 2019 15:31

Instrument :

MSVOA_D

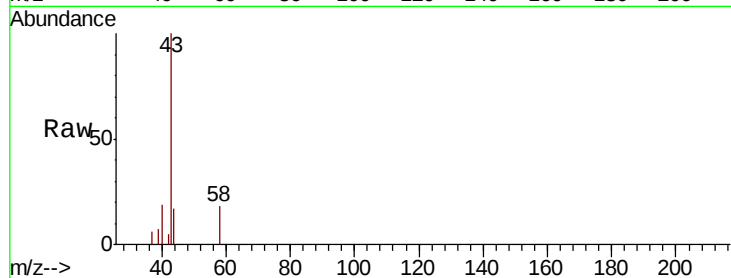
ClientSampleId :

Tot Ion: 43 Resp: 20870

Ion Ratio Lower Upper

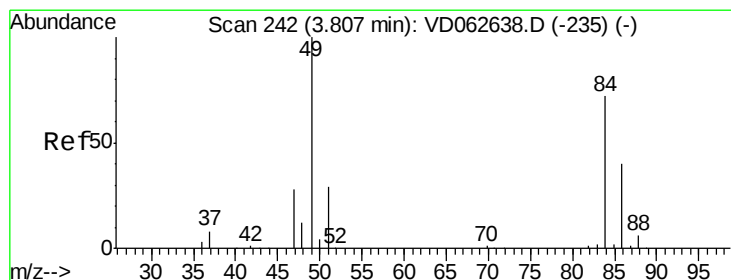
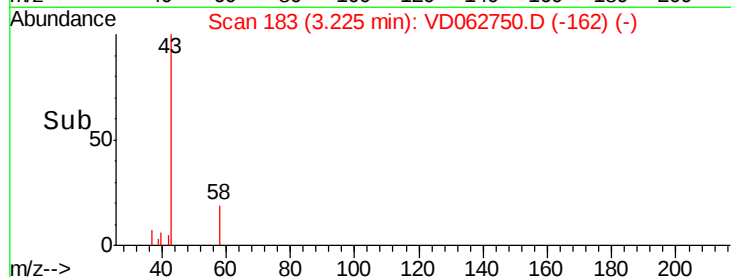
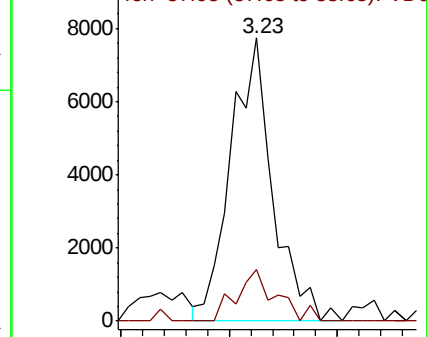
43 100

58 18.2 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 4.283 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD062750.D

Acq: 18 Jun 2019 15:31

Tgt Ion: 84 Resp: 41581

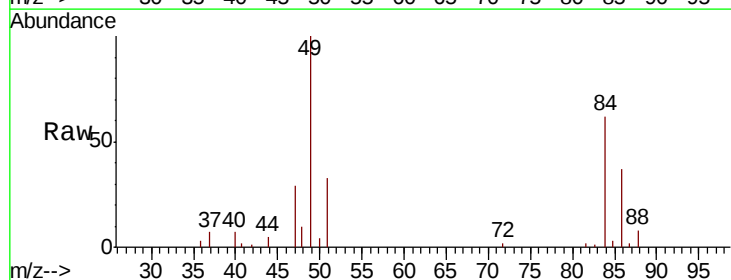
Ion Ratio Lower Upper

84 100

49 161.1 111.2 166.8

51 53.5 31.9 47.9#

86 60.3 44.7 67.1

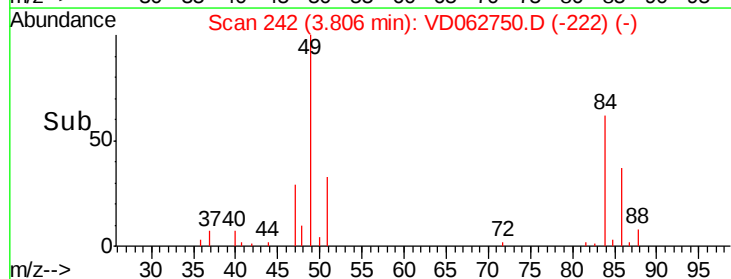
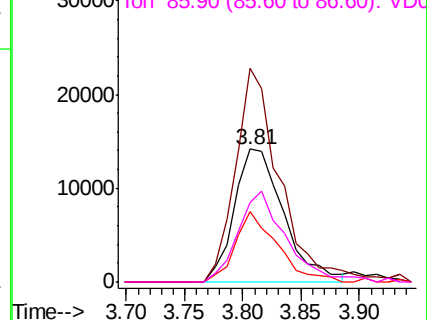


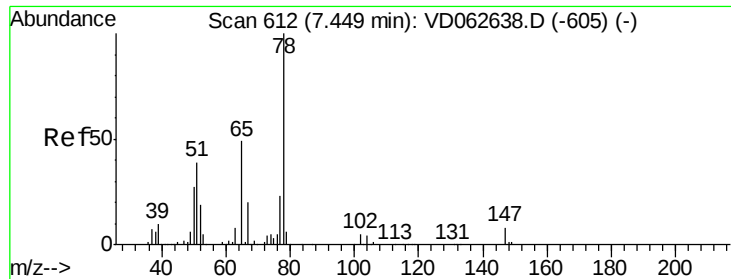
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

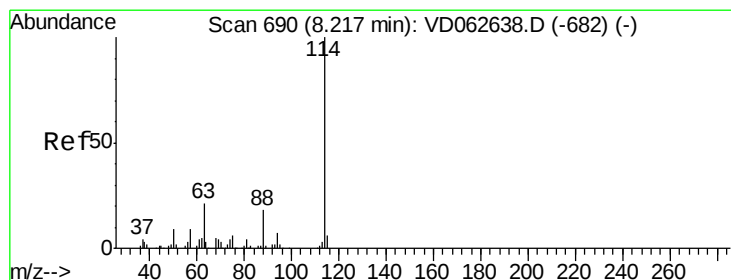
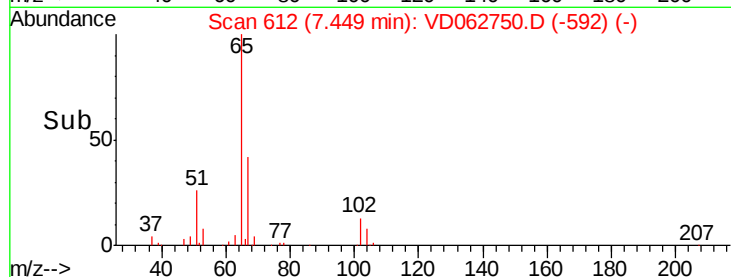
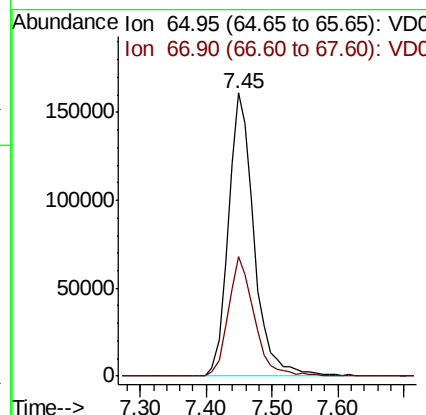
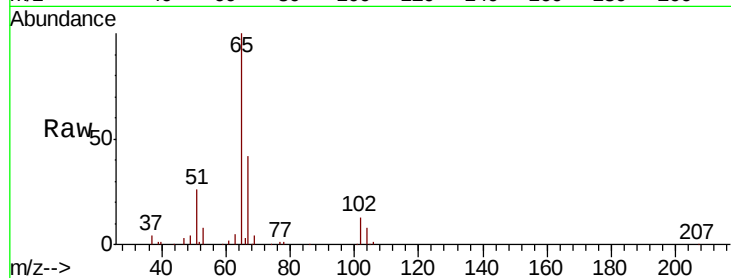




#33
 1,2-Dichloroethane-d4
 Concen: 34.194 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VD062750.D
 Acq: 18 Jun 2019 15:31

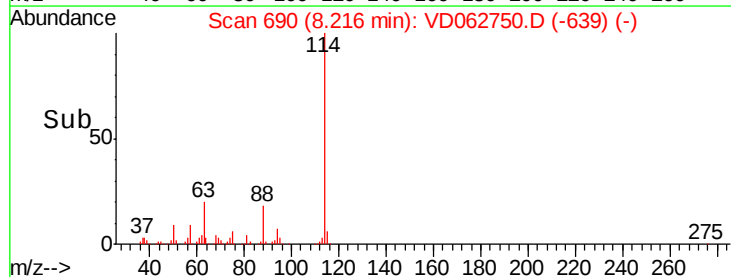
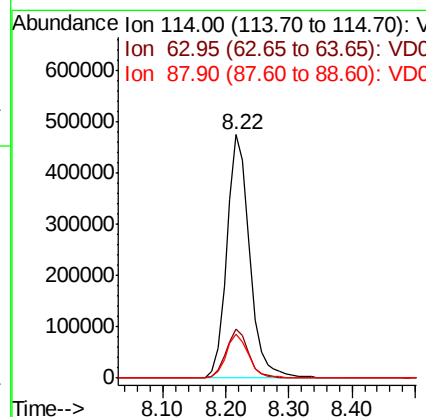
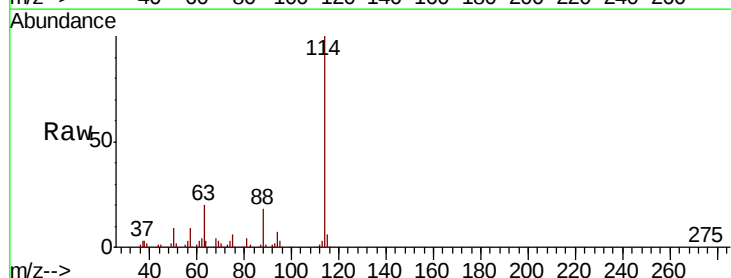
Instrument :
 MSVOA_D
 ClientSampleId :

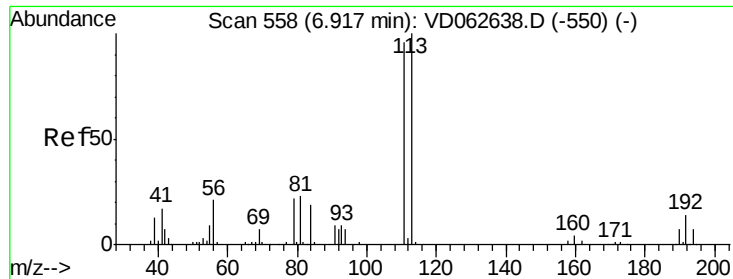
Tot Ion: 65 Resp: 438480
 Ion Ratio Lower Upper
 65 100
 67 42.4 0.0 81.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VD062750.D
 Acq: 18 Jun 2019 15:31

Tgt Ion:114 Resp: 1192053
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 42.4
 88 17.8 0.0 36.8





#35

Dibromofluoromethane

Concen: 38.834 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062750.D

Acq: 18 Jun 2019 15:31

Instrument :

MSVOA_D

ClientSampleId :

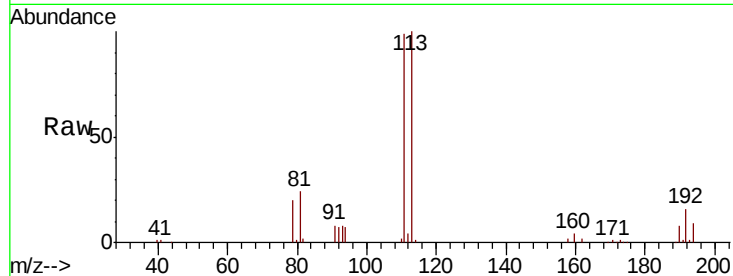
Tot Ion:113 Resp: 488207

Ion Ratio Lower Upper

113 100

111 99.5 76.4 114.6

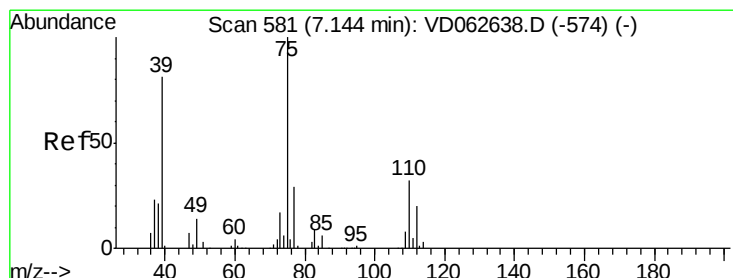
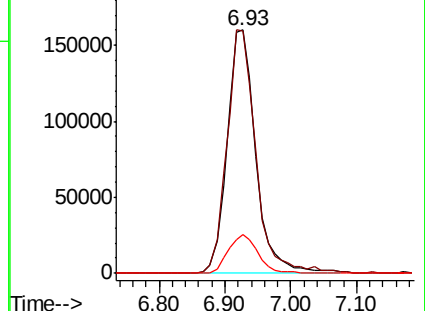
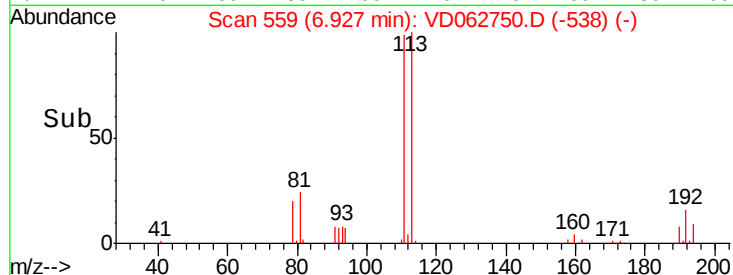
192 16.0 11.4 17.0



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: 5.177 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062750.D

Acq: 18 Jun 2019 15:31

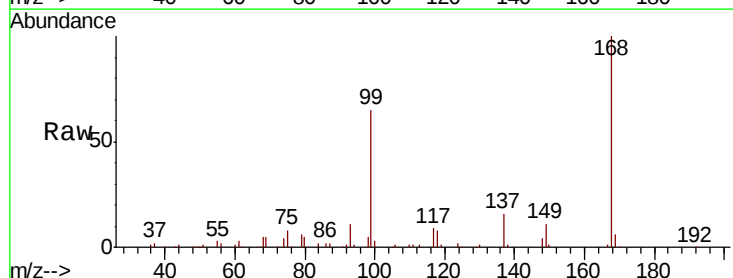
Tgt Ion: 75 Resp: 70634

Ion Ratio Lower Upper

75 100

110 8.1 15.9 47.7#

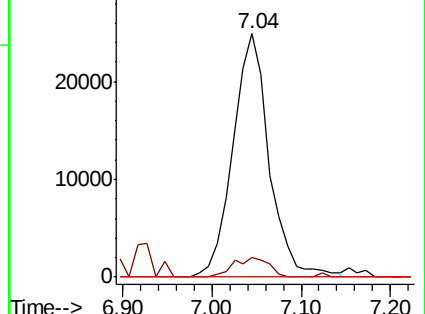
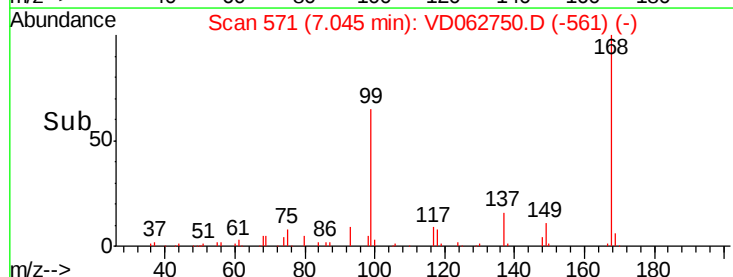
77 0.0 23.3 34.9#

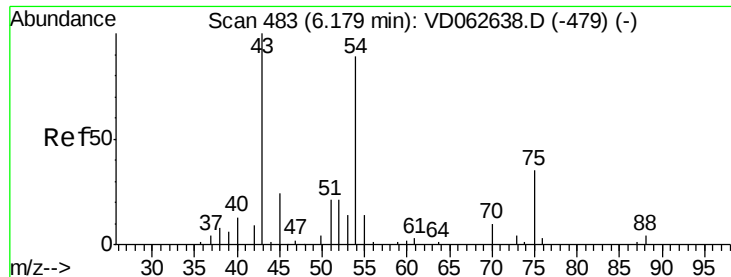


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

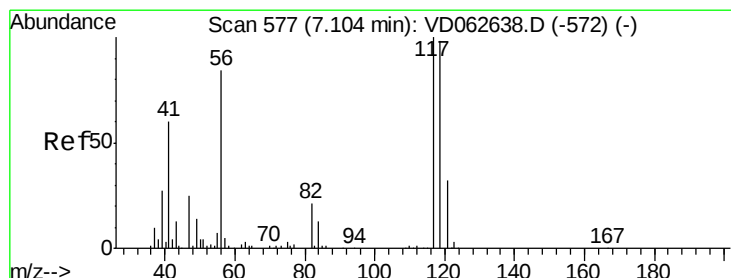
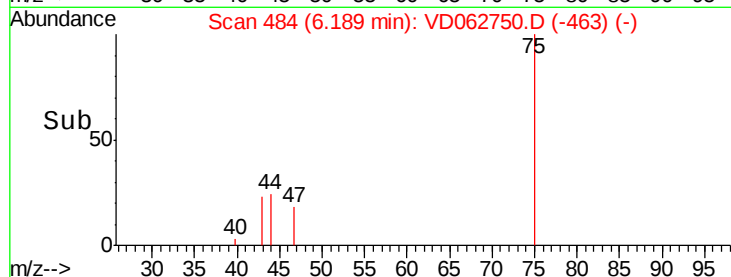
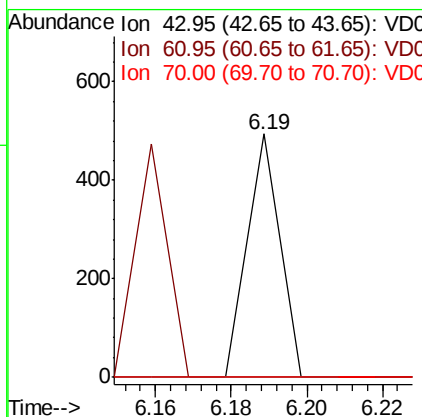
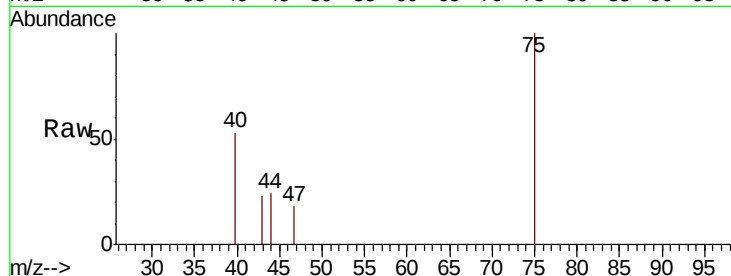




#37
Ethyl Acetate
Concen: 1.250 ug/l
RT: 6.19 min Scan# 484
Delta R.T. 0.01 min
Lab File: VD062750.D
Acq: 18 Jun 2019 15:31

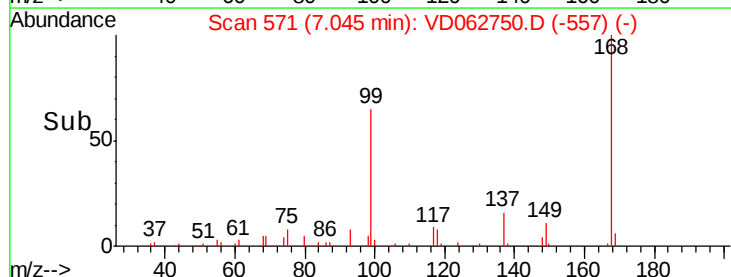
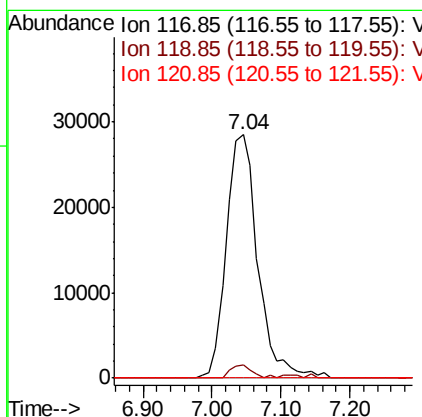
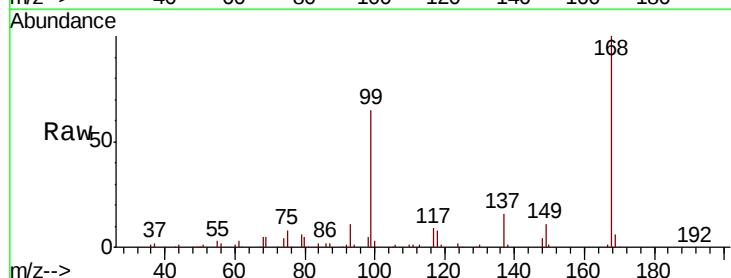
Instrument :
MSVOA_D
ClientSampleId :

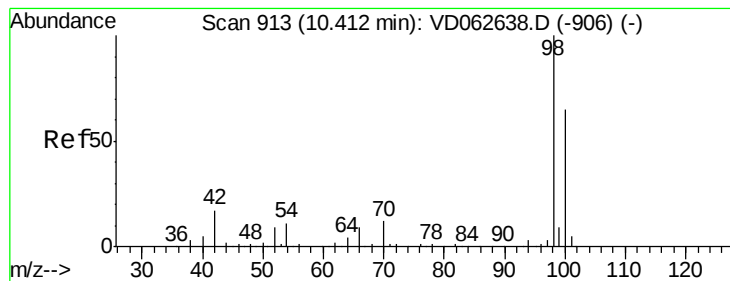
Tot Ion: 43 Resp: 292
Ion Ratio Lower Upper
43 100
61 0.0 8.7 13.1#
70 0.0 6.5 9.7#



#38
Carbon Tetrachloride
Concen: 4.176 ug/l
RT: 7.04 min Scan# 571
Delta R.T. -0.06 min
Lab File: VD062750.D
Acq: 18 Jun 2019 15:31

Tgt Ion: 117 Resp: 90054
Ion Ratio Lower Upper
117 100
119 5.6 73.5 110.3#
121 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 38.784 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD062750.D

Acq: 18 Jun 2019 15:31

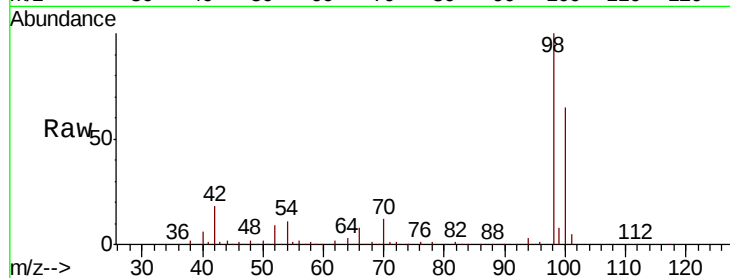
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 1025715

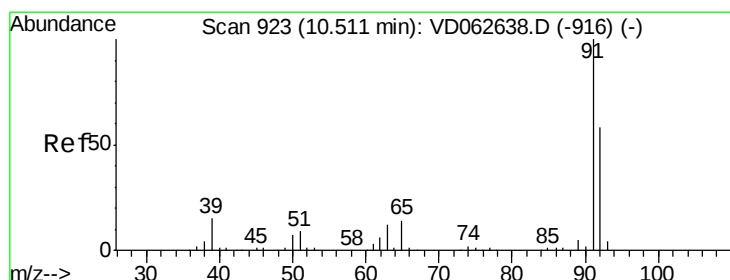
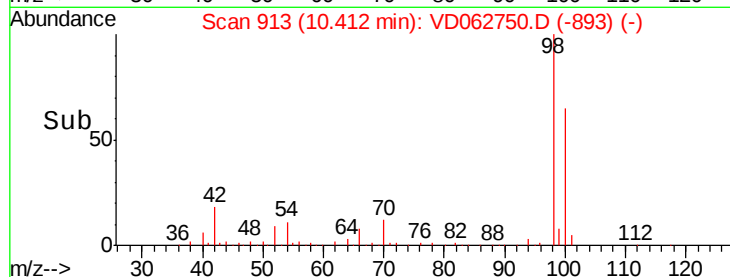
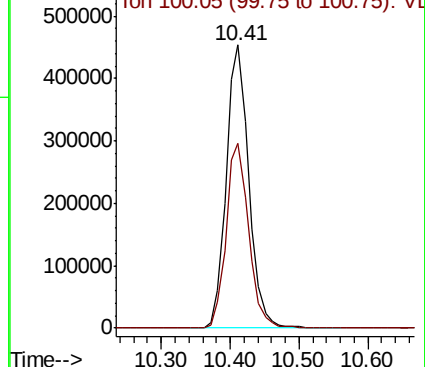
Ion Ratio Lower Upper

98 100

100 65.4 52.1 78.1



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



#52

Toluene

Concen: 1.077 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD062750.D

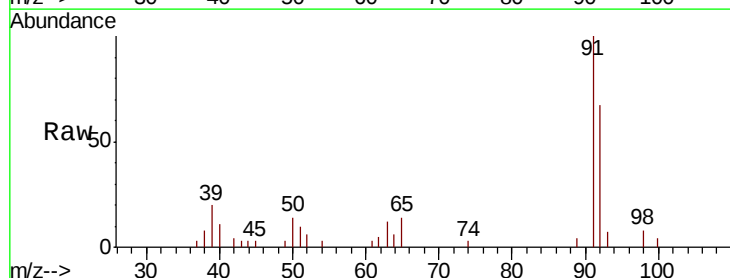
Acq: 18 Jun 2019 15:31

Tgt Ion: 92 Resp: 19288

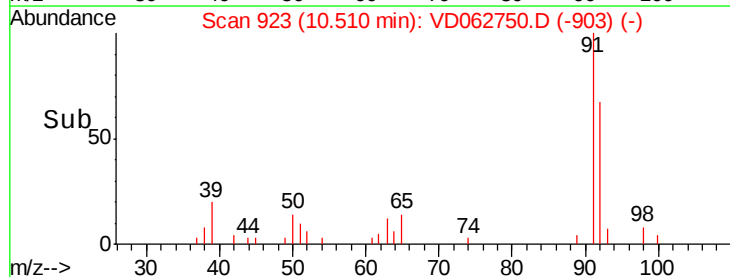
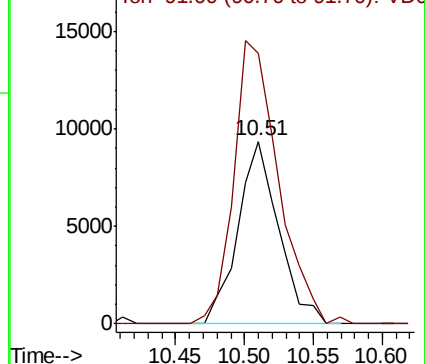
Ion Ratio Lower Upper

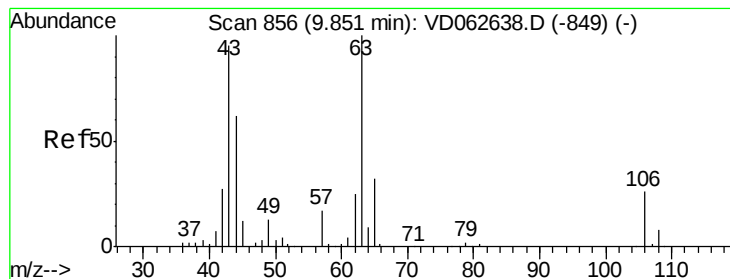
92 100

91 148.4 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC





#58

2-Chloroethyl Vinyl ether

Concen: 1.107 ug/l

RT: 9.86 min Scan# 857

Delta R.T. 0.01 min

Lab File: VD062750.D

Acq: 18 Jun 2019 15:31

Instrument :

MSVOA_D

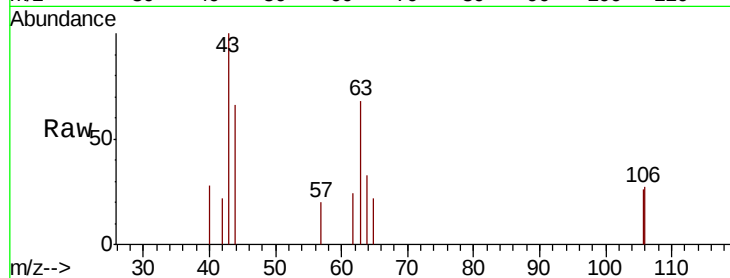
ClientSampleId :

Tot Ion: 63 Resp: 3634

Ion Ratio Lower Upper

63 100

106 77.1 20.5 30.7#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

2000

1500

1000

500

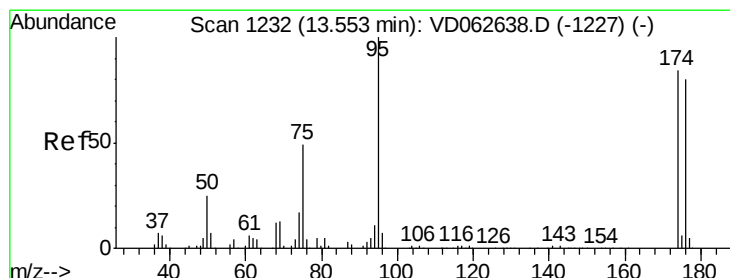
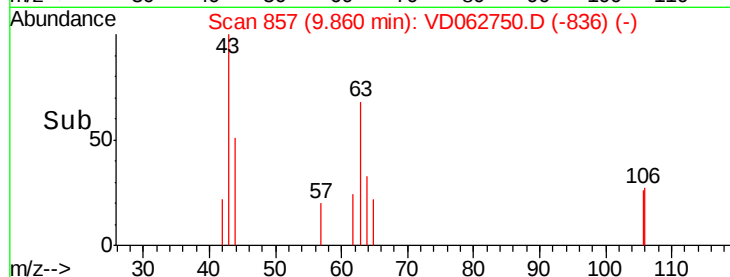
0

9.80

9.85

9.90

Time-->



#62

4-Bromofluorobenzene

Concen: 36.543 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062750.D

Acq: 18 Jun 2019 15:31

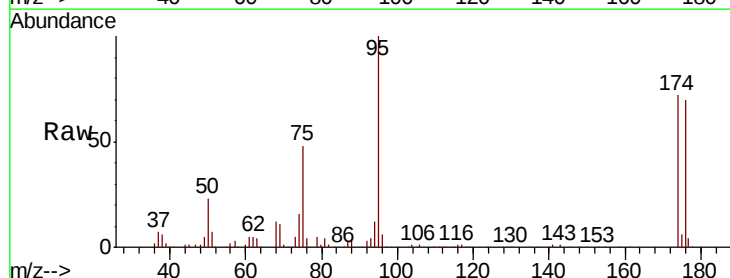
Tgt Ion: 95 Resp: 450873

Ion Ratio Lower Upper

95 100

174 71.8 0.0 167.0

176 70.3 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

400000

300000

200000

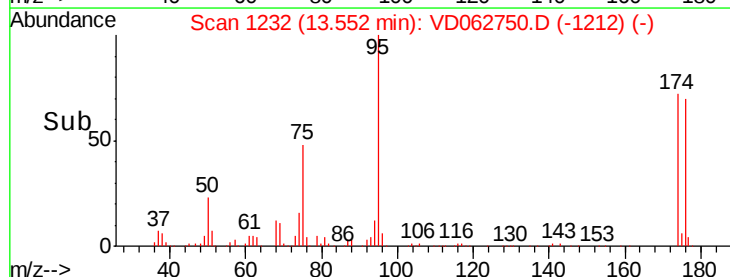
100000

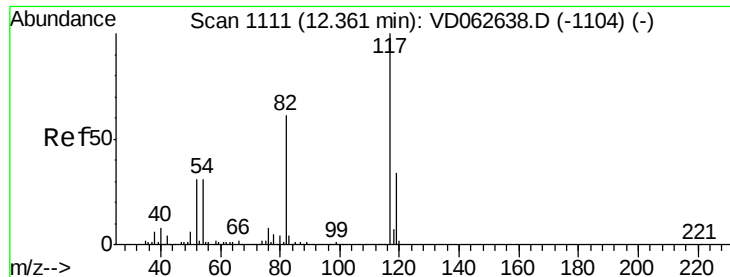
0

13.50

13.60

Time-->

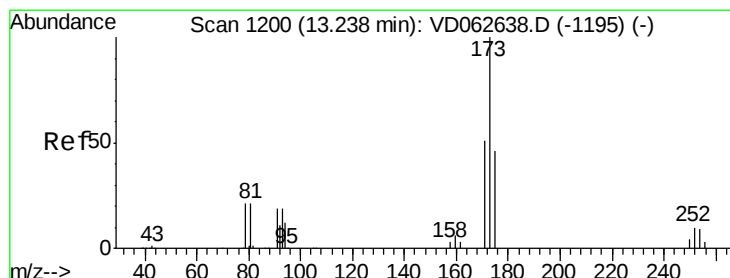
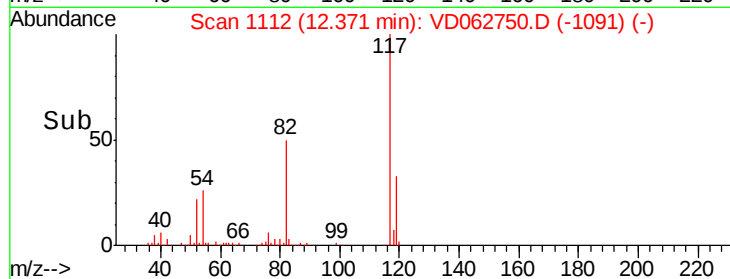
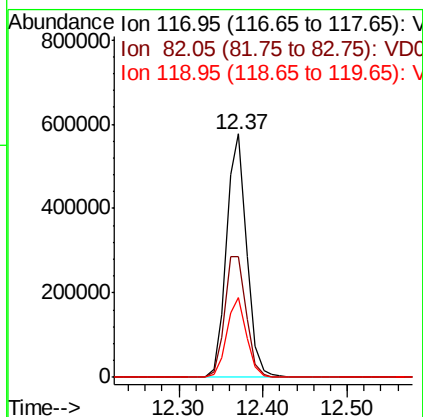
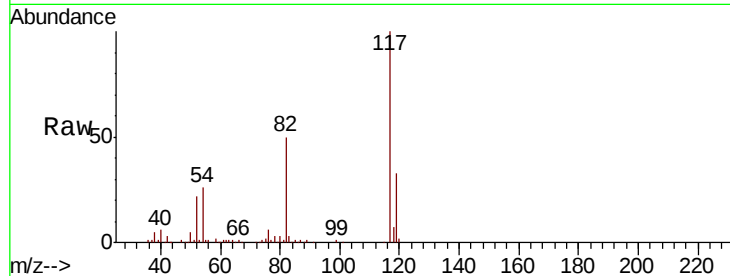




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062750.D
Acq: 18 Jun 2019 15:31

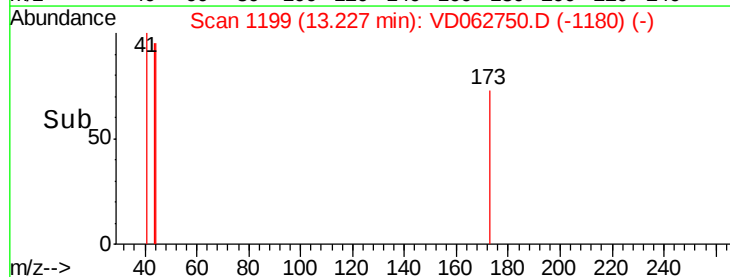
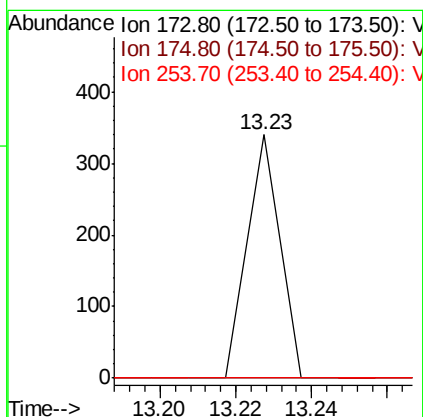
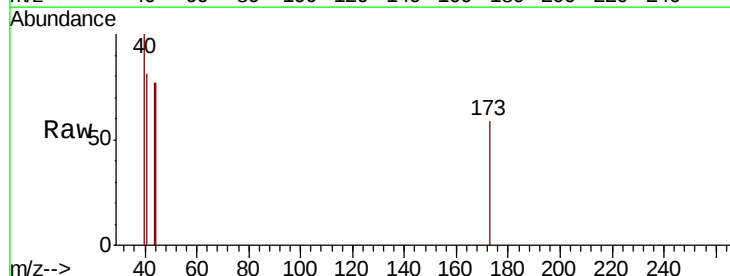
Instrument :
MSVOA_D
ClientSampled :

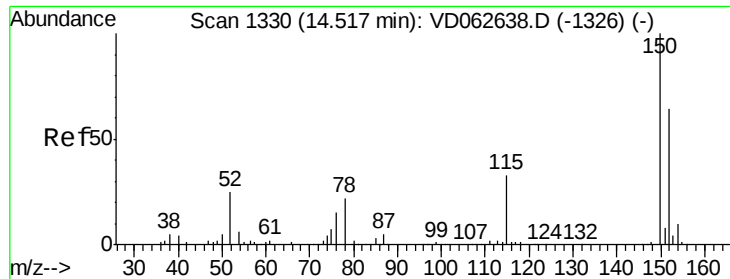
Tot Ion:117 Resp: 955162
Ion Ratio Lower Upper
117 100
82 49.8 48.7 73.1
119 32.7 27.0 40.6



#71
Bromoform
Concen: 2.856 ug/l
RT: 13.23 min Scan# 1199
Delta R.T. -0.01 min
Lab File: VD062750.D
Acq: 18 Jun 2019 15:31

Tgt Ion:173 Resp: 201
Ion Ratio Lower Upper
173 100
175 0.0 22.9 68.7#
254 0.0 7.0 10.4#



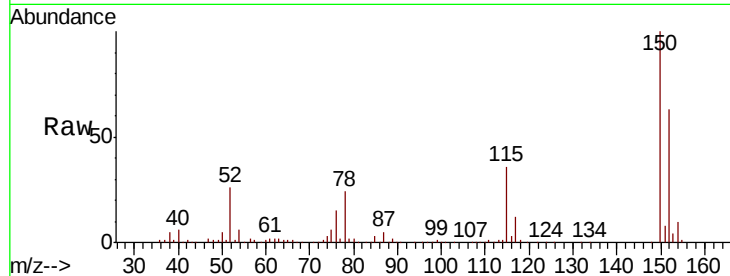


#72

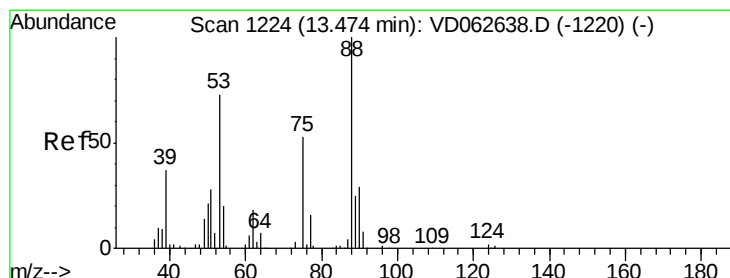
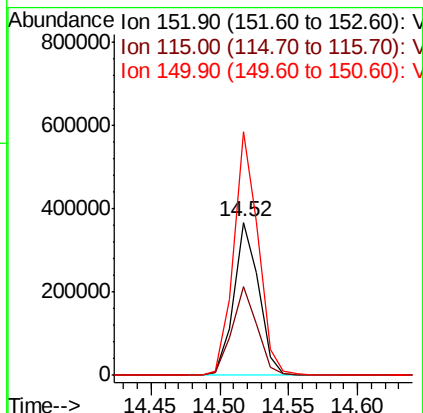
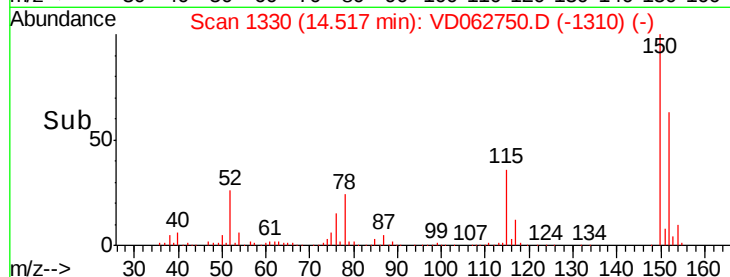
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD062750.D
Acq: 18 Jun 2019 15:31

Instrument :
MSVOA_D
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.0	30.1	90.5
150	159.2	0.0	314.0



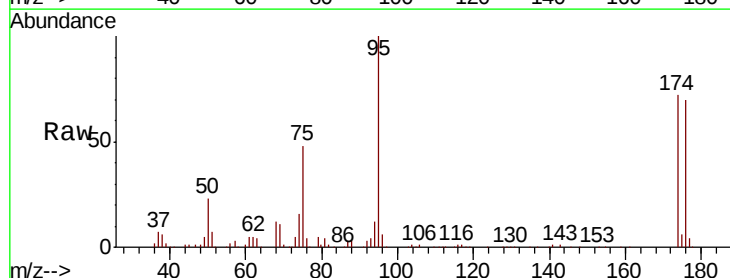
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



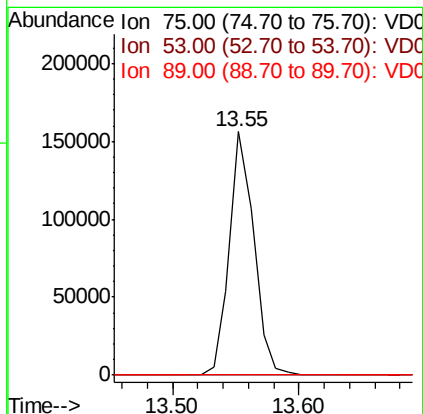
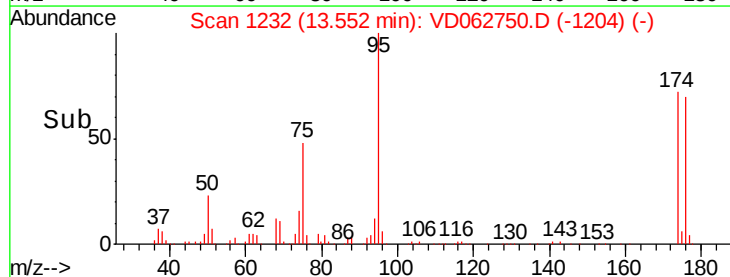
#81

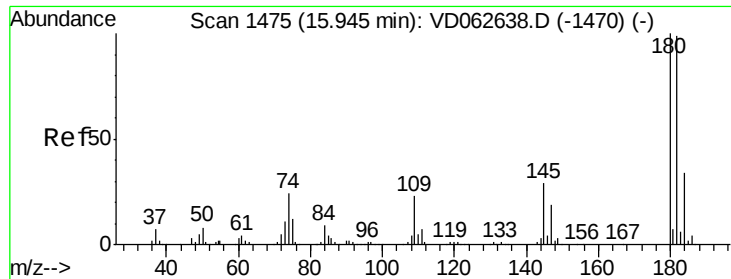
trans-1,4-Dichloro-2-butene
Concen: 107.742 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.08 min
Lab File: VD062750.D
Acq: 18 Jun 2019 15:31

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	109.4	164.2#
89	0.0	37.0	55.6#



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

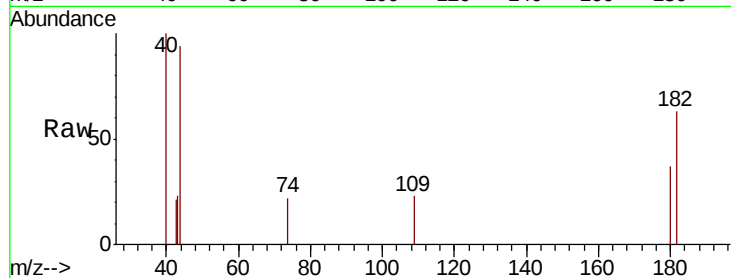




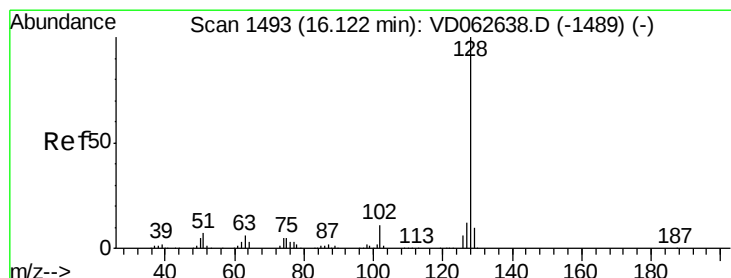
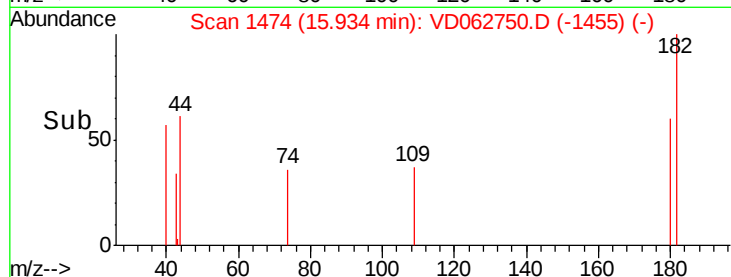
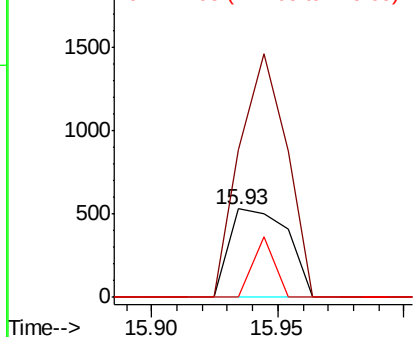
#93
 1,2,4-Trichlorobenzene
 Concen: 3.634 ug/l
 RT: 15.93 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD062750.D
 Acq: 18 Jun 2019 15:31

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 847
 Ion Ratio Lower Upper
 180 100
 182 167.5 49.4 148.2#
 145 0.0 14.5 43.6#

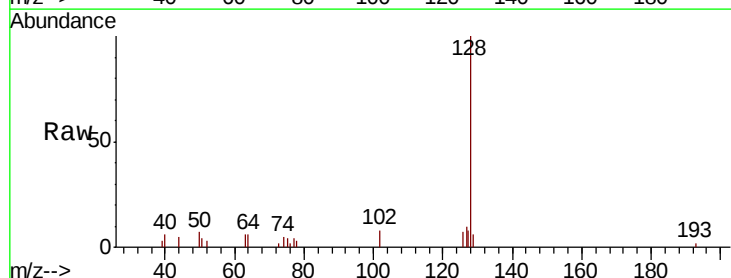


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 4.324 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062750.D
 Acq: 18 Jun 2019 15:31

Tgt Ion:128 Resp: 15841
 Ion Ratio Lower Upper
 128 100
 127 17.9 9.7 14.5#
 129 5.9 8.1 12.1#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

