

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD061019\
 Data File : VD062647.D
 Acq On : 10 Jun 2019 12:12
 Operator : VA/AP
 Sample : VD0610SBL01
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0610SBL01

Quant Time: Jun 11 03:54:10 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	792138	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1058411	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	841350	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	464428	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	612073	53.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.10%	
35) Dibromofluoromethane	6.91	113	587041	52.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.18%	
50) Toluene-d8	10.40	98	1235712	52.62	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	105.24%	
62) 4-Bromofluorobenzene	13.55	95	568417	51.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.78%	

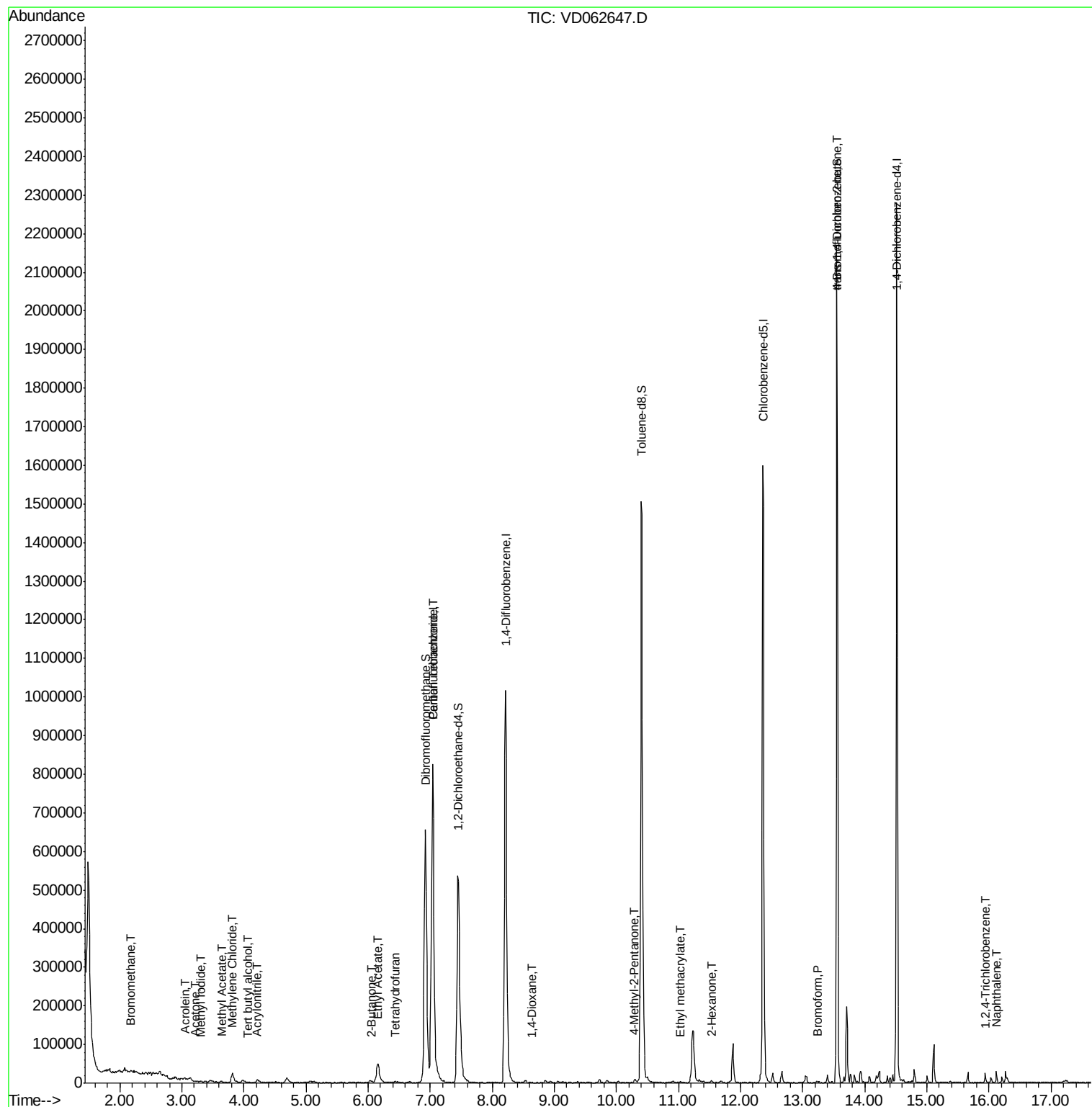
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	4262	Below Cal		80
5) Bromomethane	2.18	94	4898	1.201	ug/l #	51
10) Methyl Iodide	3.30	142	4060	4.272	ug/l #	83
11) Tert butyl alcohol	4.07	59	1878	3.997	ug/l #	61
13) Acrolein	3.05	56	409	2.706	ug/l #	61
15) Acrylonitrile	4.20	53	1475	1.381	ug/l #	76
16) Acetone	3.22	43	11895	5.683	ug/l #	66
18) Methyl Acetate	3.65	43	4126	1.199	ug/l #	64
20) Methylene Chloride	3.81	84	14457	1.399	ug/l	95
25) 2-Butanone	6.07	43	4584	2.245	ug/l #	61
29) Tetrahydrofuran	6.45	42	1619	1.761	ug/l #	68
37) Ethyl Acetate	6.15	43	6986	2.521	ug/l #	59
38) Carbon Tetrachloride	7.03	117	81515	4.257	ug/l #	18
49) 1,4-Dioxane	8.63	88	195	51.763	ug/l #	21
51) 4-Methyl-2-Pentanone	10.30	43	9166	2.049	ug/l #	82
56) Ethyl methacrylate	11.03	69	633	4.028	ug/l #	66
59) 2-Hexanone	11.53	43	5420	1.629	ug/l	79
71) Bromoform	13.23	173	1639	3.058	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.55	75	288999	146.594	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	5716	4.012	ug/l #	47
95) Naphthalene	16.12	128	14379	4.244	ug/l #	93

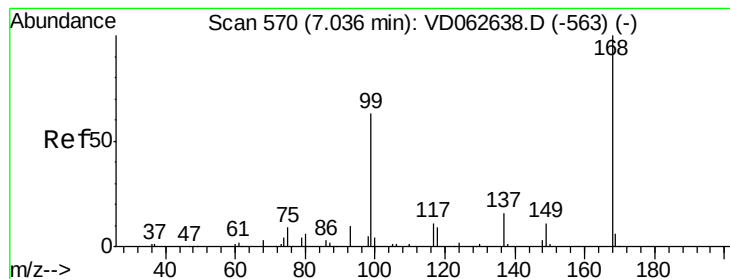
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD061019\
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Instrument :
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ClientSampleId :
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Quant Time: Jun 11 03:54:10 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.01 min

Lab File: VD062647.D

Acq: 10 Jun 2019 12:12

Instrument :

MSVOA_D

ClientSampleId :

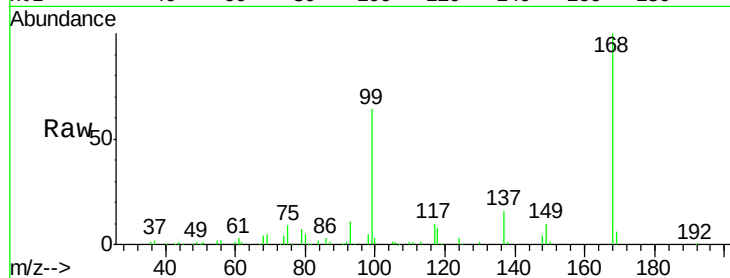
VD0610SBL01

Tgt Ion:168 Resp: 792138

Ion Ratio Lower Upper

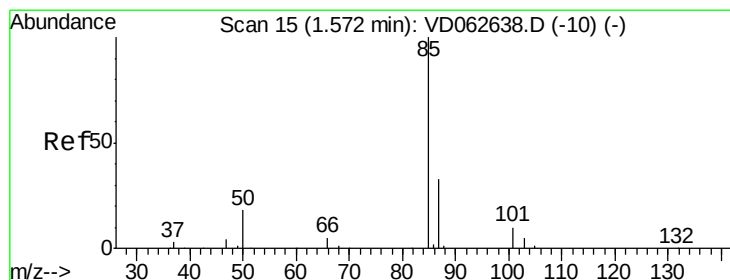
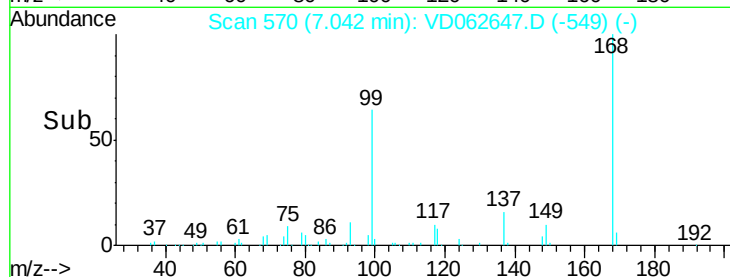
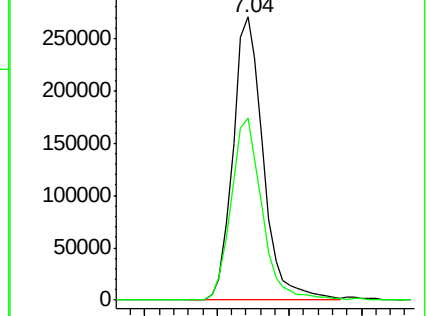
168 100

99 64.4 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 15

Delta R.T. 0.01 min

Lab File: VD062647.D

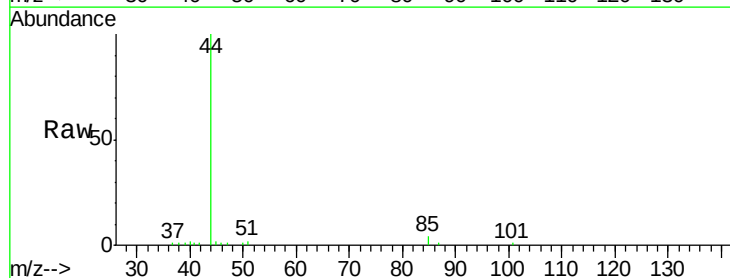
Acq: 10 Jun 2019 12:12

Tgt Ion: 85 Resp: 4262

Ion Ratio Lower Upper

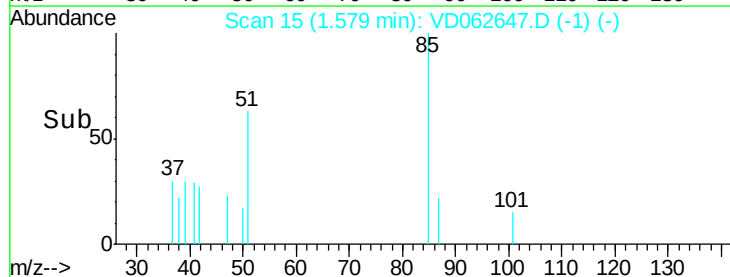
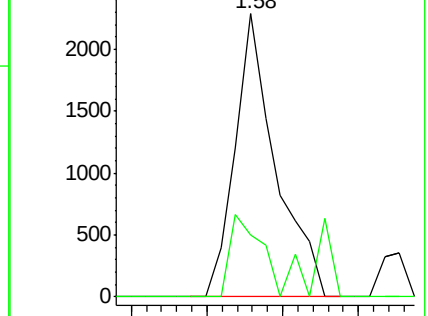
85 100

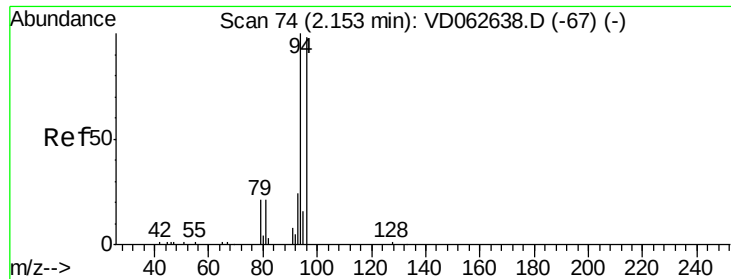
87 22.0 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: 1.201 ug/l

RT: 2.18 min Scan# 76

Delta R.T. 0.03 min

Lab File: VD062647.D

Acq: 10 Jun 2019 12:12

Instrument :

MSVOA_D

ClientSampleId :

VD0610SBL01

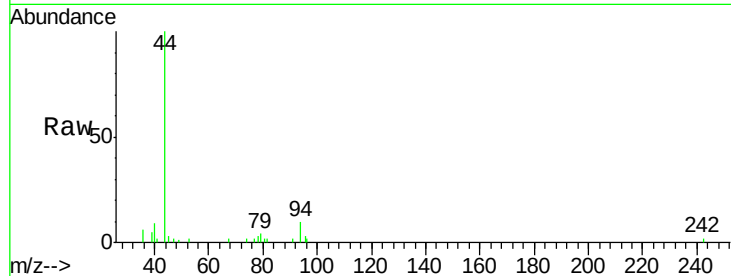
Tgt Ion: 94 Resp: 4898

Ion Ratio Lower Upper

94 100

96 49.1 78.1 117.1#

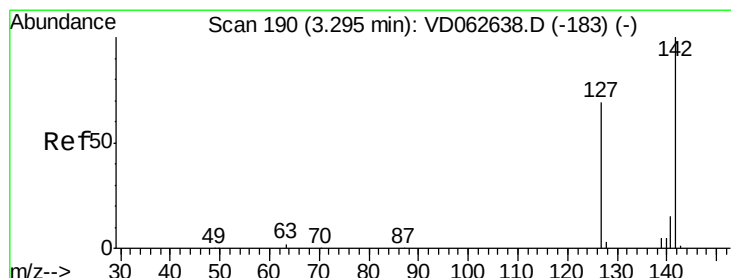
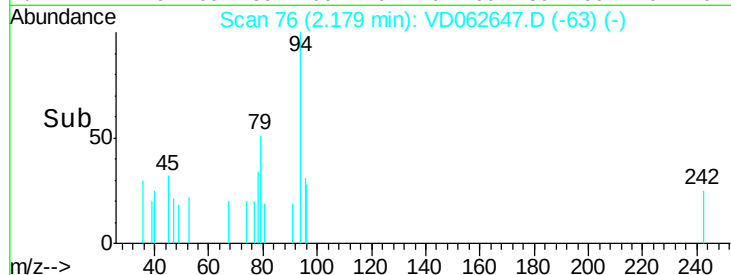
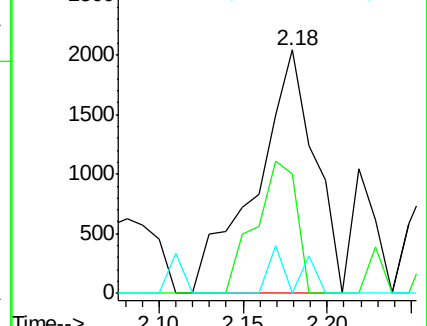
93 0.0 19.6 29.4#



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



#10

Methyl Iodide

Concen: 4.272 ug/l

RT: 3.30 min Scan# 190

Delta R.T. 0.01 min

Lab File: VD062647.D

Acq: 10 Jun 2019 12:12

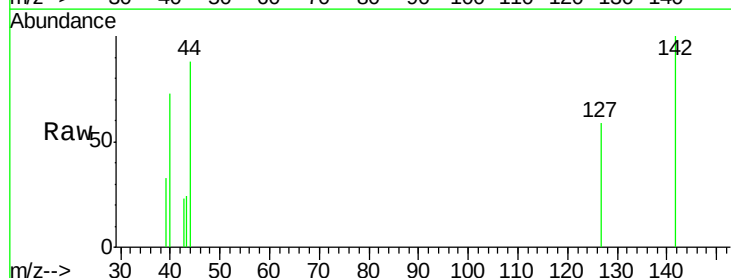
Tgt Ion: 142 Resp: 4060

Ion Ratio Lower Upper

142 100

127 58.8 55.2 82.8

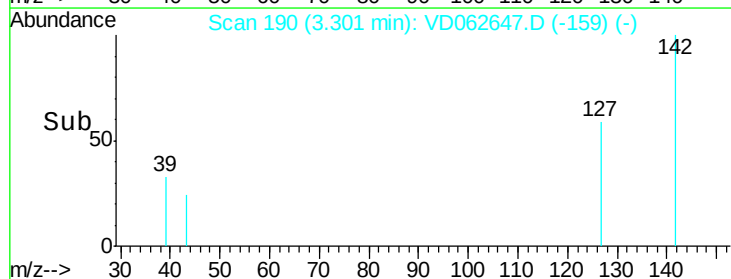
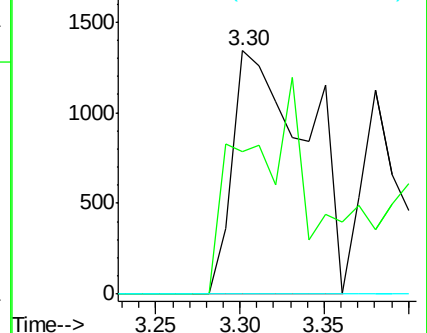
141 0.0 12.1 18.1#

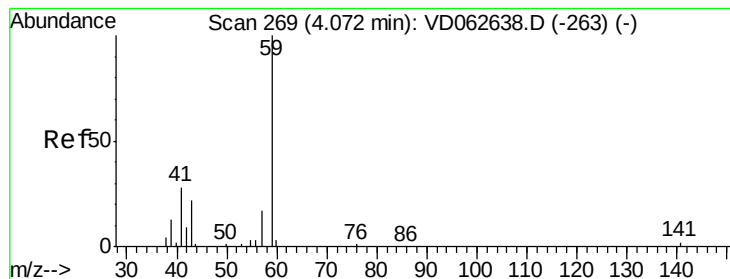


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



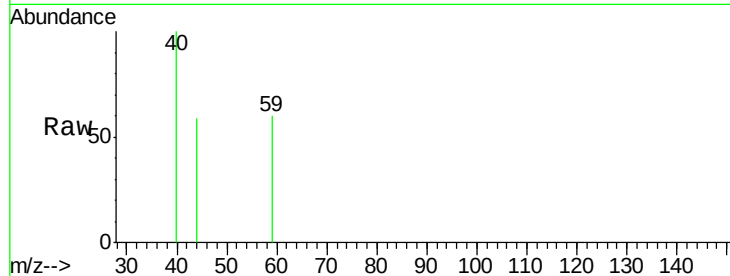


#11

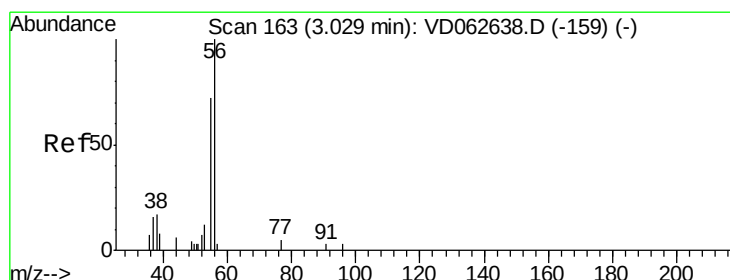
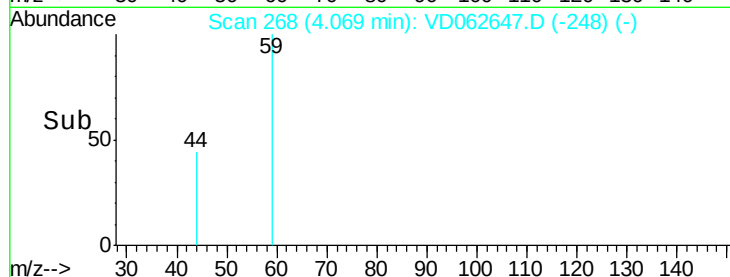
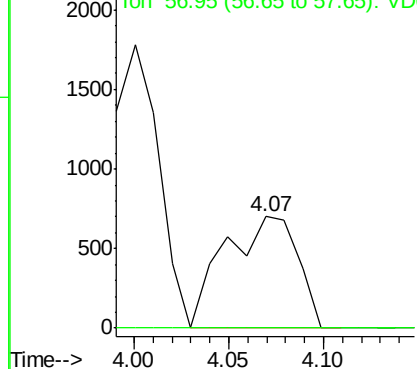
Tert butyl alcohol
 Concen: 3.997 ug/l
 RT: 4.07 min Scan# 268
 Delta R.T. -0.00 min
 Lab File: VD062647.D
 Acq: 10 Jun 2019 12:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0610SBL01

Tgt Ion: 59 Resp: 1878
 Ion Ratio Lower Upper
 59 100
 57 0.0 13.7 20.5#



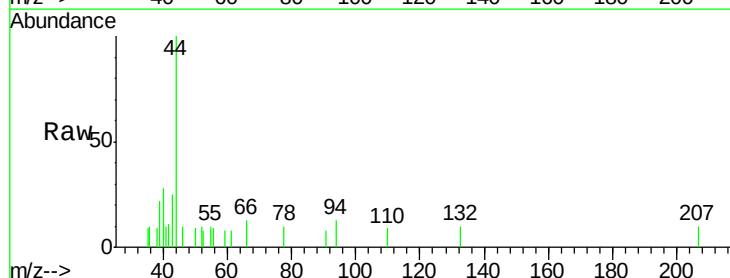
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



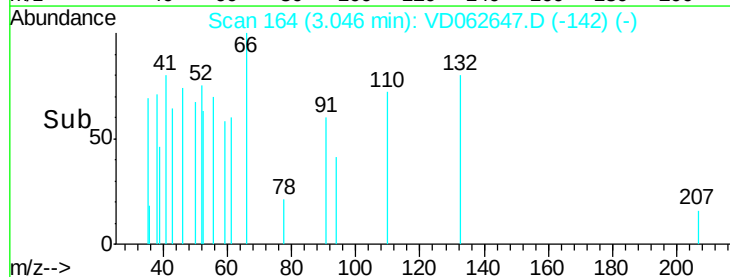
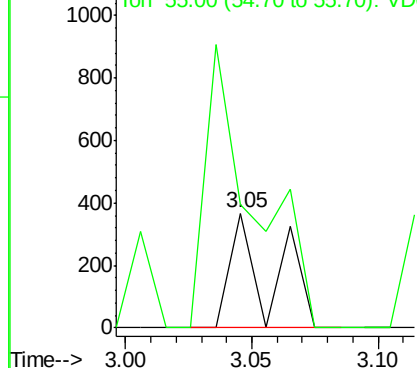
#13

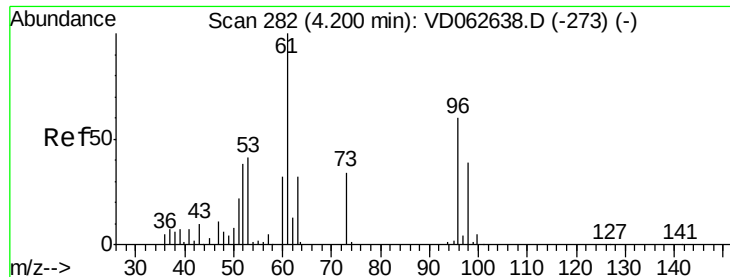
Acrolein
 Concen: 2.706 ug/l
 RT: 3.05 min Scan# 164
 Delta R.T. 0.02 min
 Lab File: VD062647.D
 Acq: 10 Jun 2019 12:12

Tgt Ion: 56 Resp: 409
 Ion Ratio Lower Upper
 56 100
 55 107.6 59.4 89.0#



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





#15

Acrylonitrile

Concen: 1.381 ug/l

RT: 4.20 min Scan# 281

Delta R.T. -0.00 min

Lab File: VD062647.D

Acq: 10 Jun 2019 12:12

Instrument :

MSVOA_D

ClientSampleId :

VD0610SBL01

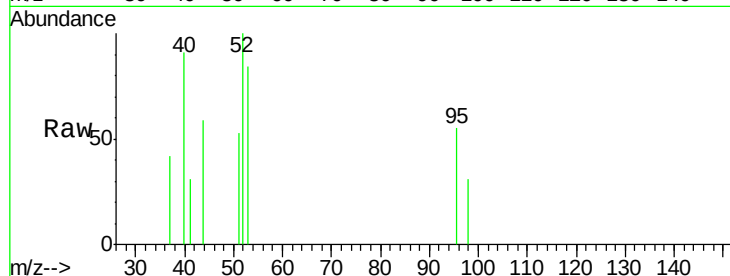
Tgt Ion: 53 Resp: 1475

Ion Ratio Lower Upper

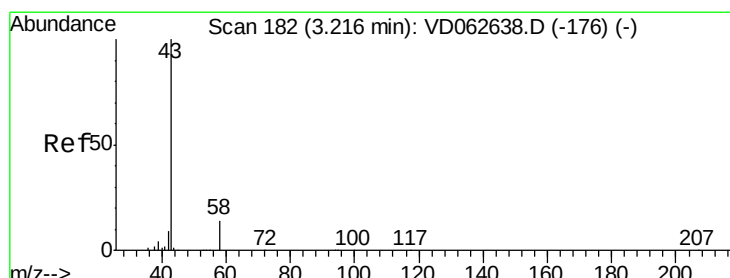
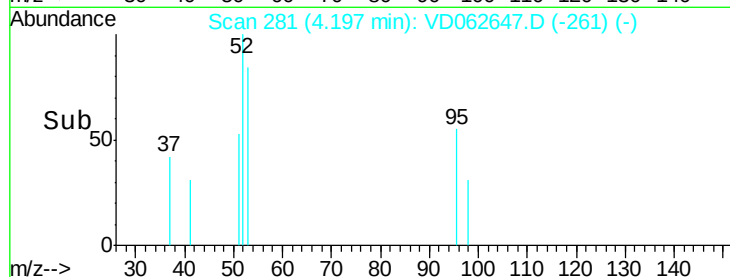
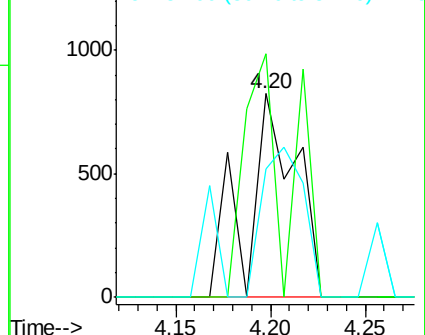
53 100

52 119.5 73.6 110.4#

51 62.8 42.0 63.0



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: 5.683 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.01 min

Lab File: VD062647.D

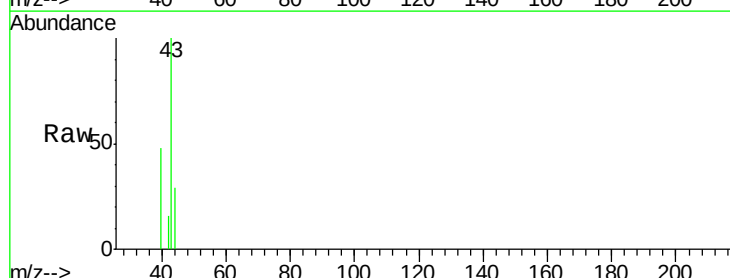
Acq: 10 Jun 2019 12:12

Tgt Ion: 43 Resp: 11895

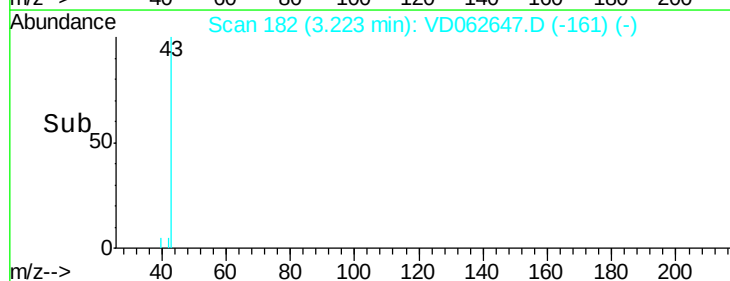
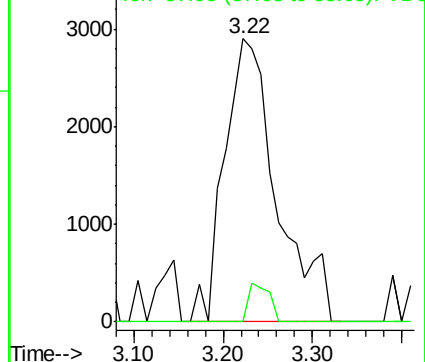
Ion Ratio Lower Upper

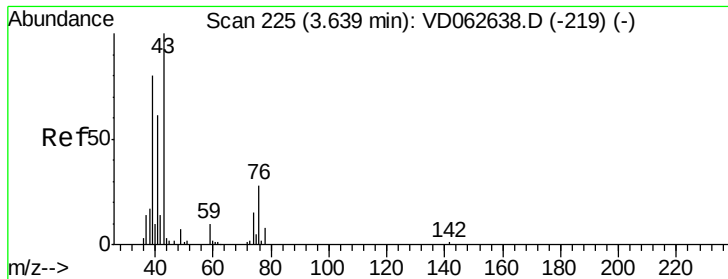
43 100

58 0.0 10.8 16.2#



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

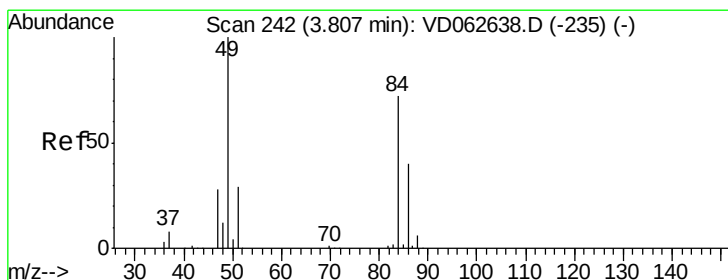
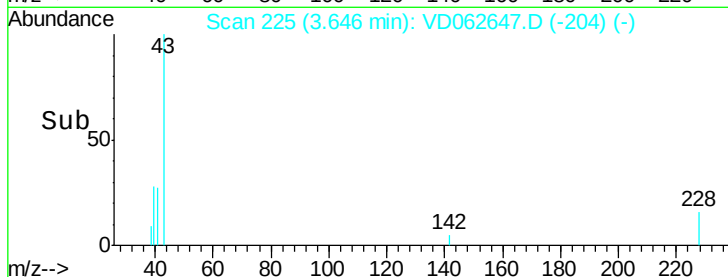
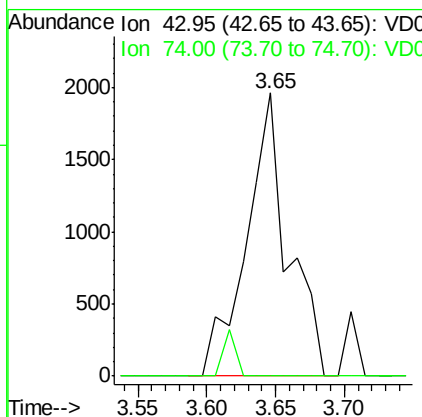
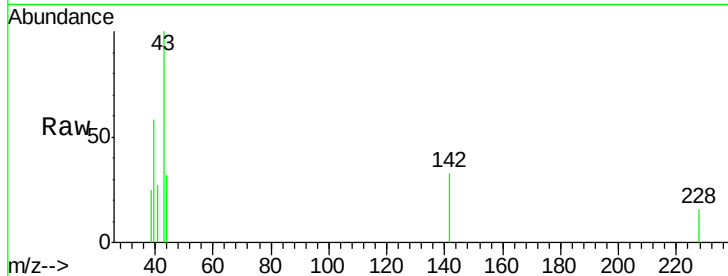




#18
Methyl Acetate
Concen: 1.199 ug/l
RT: 3.65 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD062647.D
Acq: 10 Jun 2019 12:12

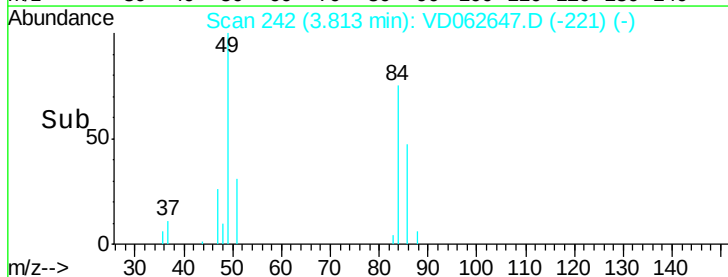
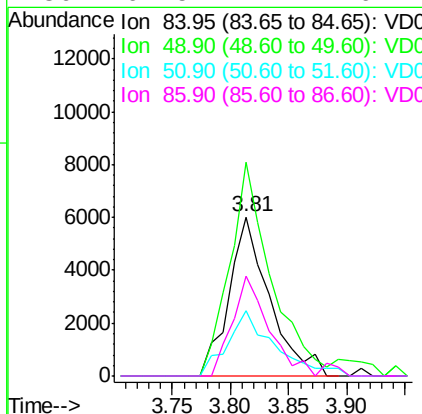
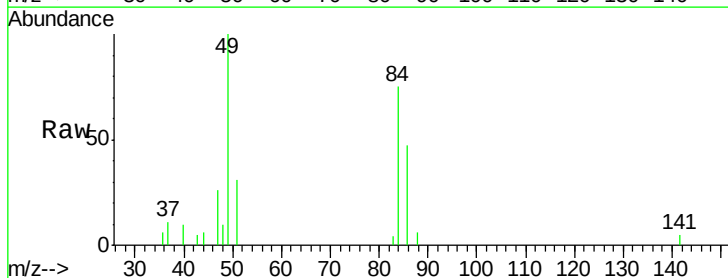
Instrument :
MSVOA_D
ClientSampleId :
VD0610SBL01

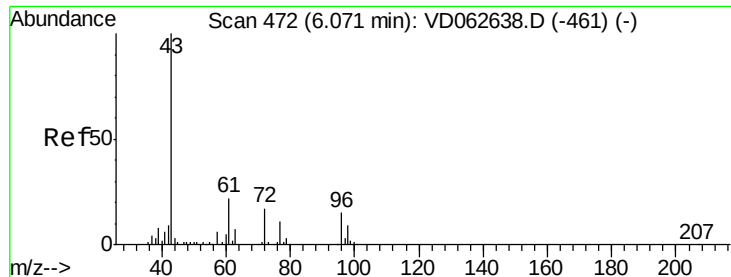
Tgt Ion: 43 Resp: 4126
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: 1.399 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD062647.D
Acq: 10 Jun 2019 12:12

Tgt Ion: 84 Resp: 14457
Ion Ratio Lower Upper
84 100
49 134.1 111.2 166.8
51 41.3 31.9 47.9
86 62.5 44.7 67.1





#25

2-Butanone

Concen: 2.245 ug/l

RT: 6.07 min Scan# 471

Delta R.T. -0.00 min

Lab File: VD062647.D

Acq: 10 Jun 2019 12:12

Instrument :

MSVOA_D

ClientSampleId :

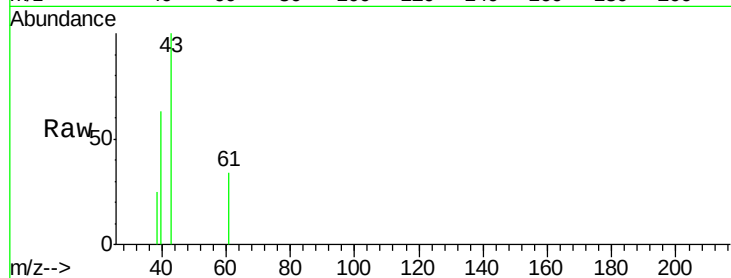
VD0610SBL01

Tgt Ion: 43 Resp: 4584

Ion Ratio Lower Upper

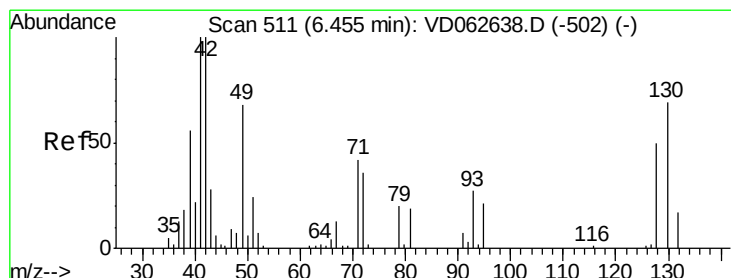
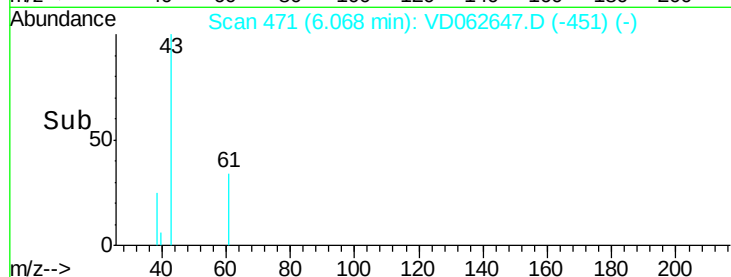
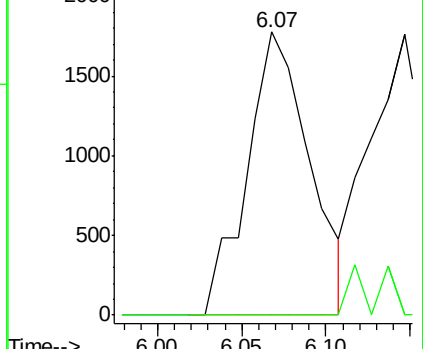
43 100

72 0.0 13.5 20.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.761 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.00 min

Lab File: VD062647.D

Acq: 10 Jun 2019 12:12

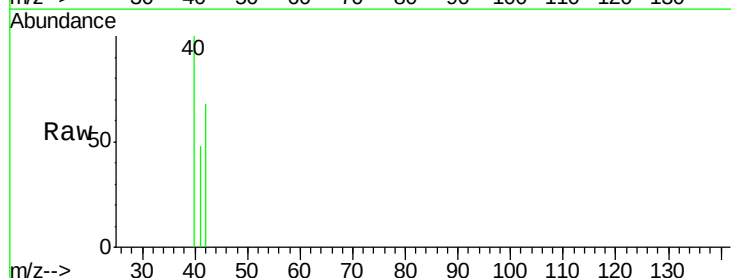
Tgt Ion: 42 Resp: 1619

Ion Ratio Lower Upper

42 100

72 15.4 33.8 50.6#

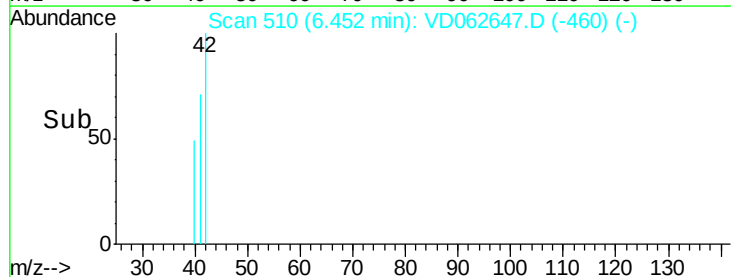
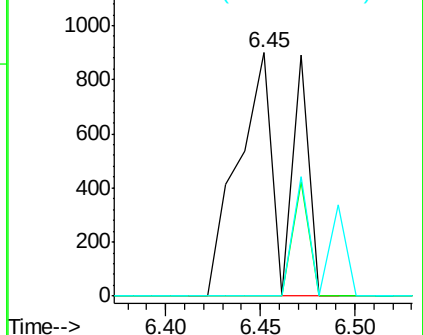
71 28.5 34.2 51.4#

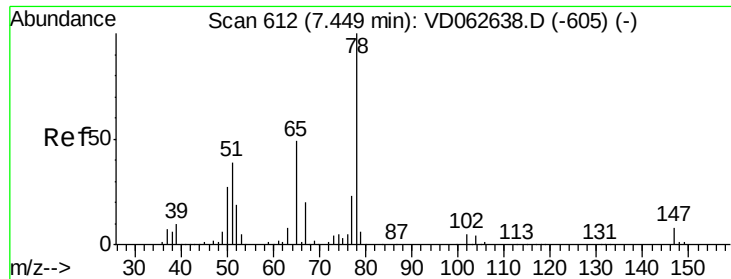


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

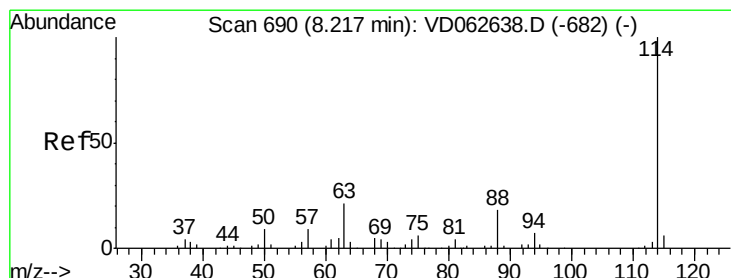
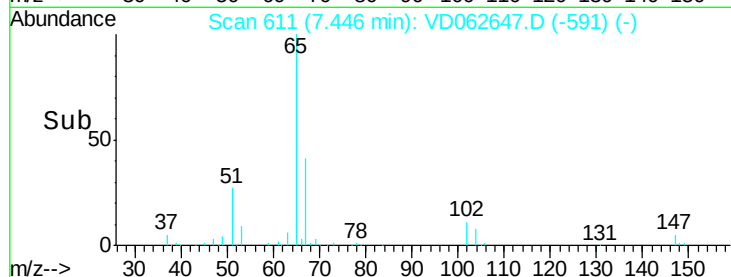
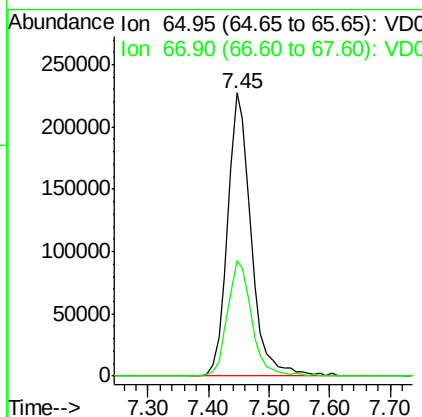
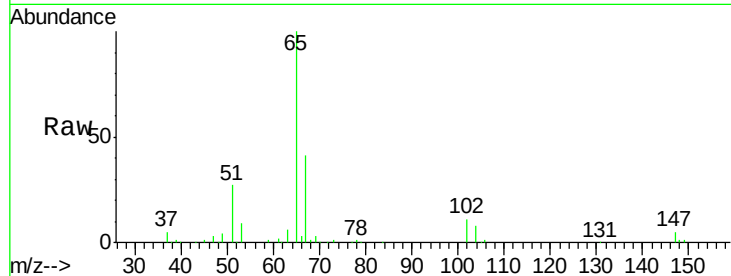




#33
 1,2-Dichloroethane-d4
 Concen: 53.547 ug/l
 RT: 7.45 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: VD062647.D
 Acq: 10 Jun 2019 12:12

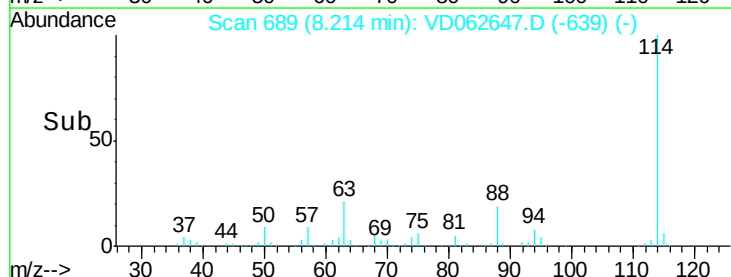
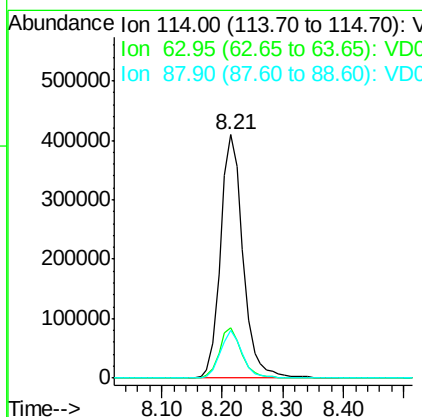
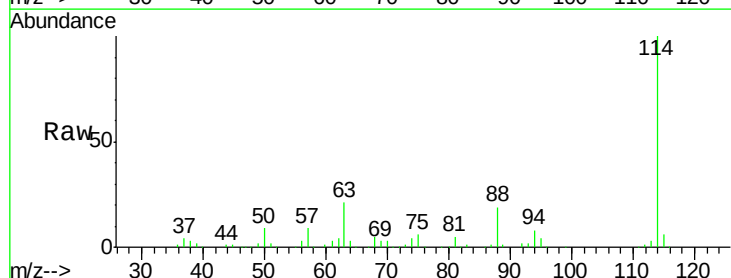
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0610SBL01

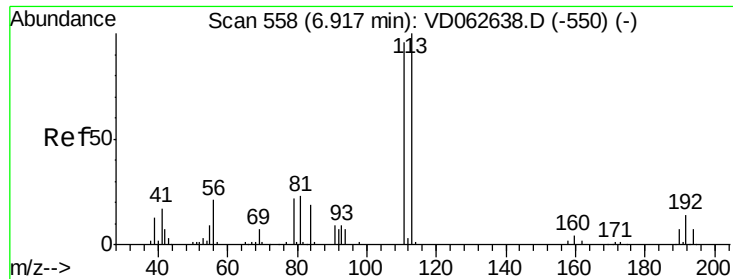
Tgt Ion: 65 Resp: 612073
 Ion Ratio Lower Upper
 65 100
 67 41.0 0.0 81.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VD062647.D
 Acq: 10 Jun 2019 12:12

Tgt Ion: 114 Resp: 1058411
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.4
 88 19.5 0.0 36.8

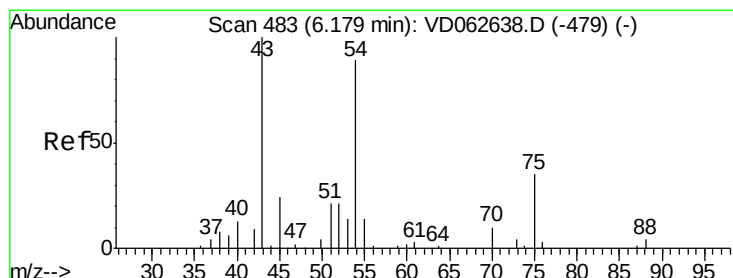
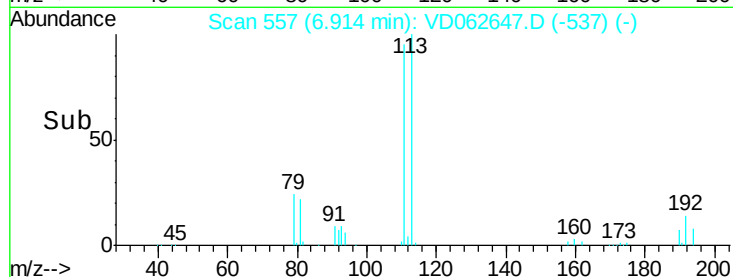
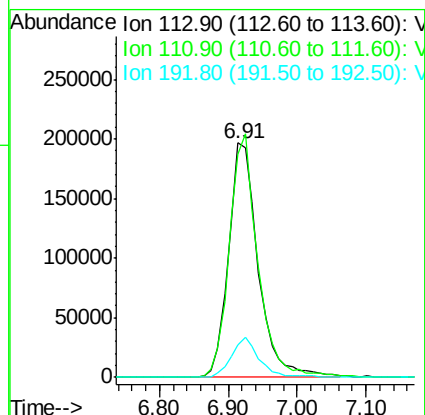
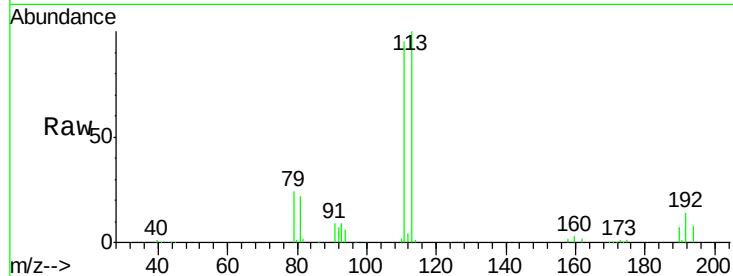




#35
 Dibromofluoromethane
 Concen: 52.591 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. -0.00 min
 Lab File: VD062647.D
 Acq: 10 Jun 2019 12:12

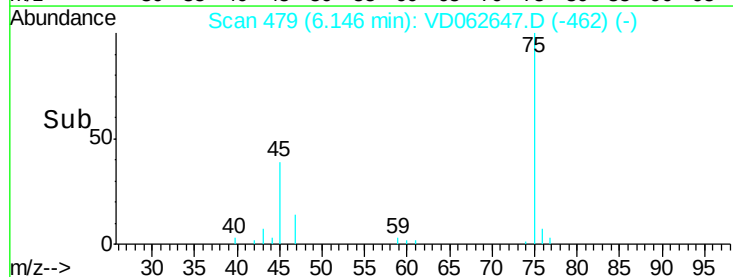
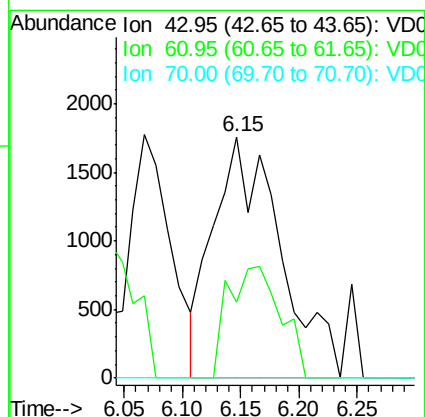
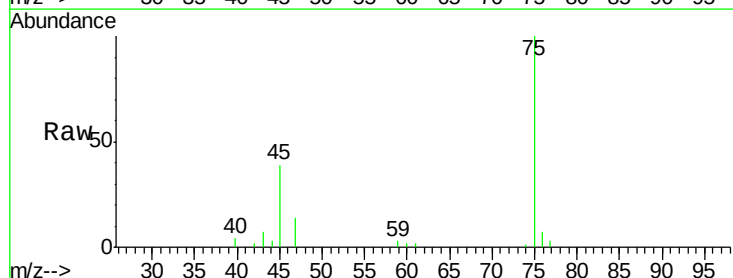
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0610SBL01

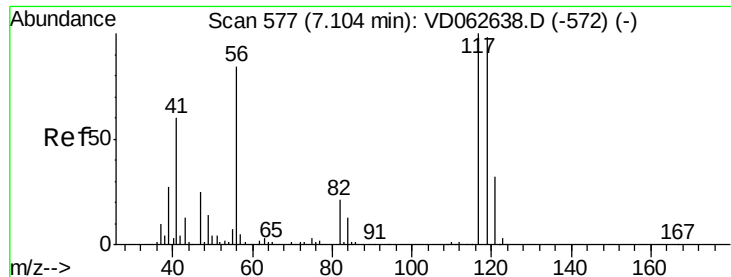
Tgt Ion: 113 Resp: 587041
 Ion Ratio Lower Upper
 113 100
 111 95.2 76.4 114.6
 192 13.8 11.4 17.0



#37
 Ethyl Acetate
 Concen: 2.521 ug/l
 RT: 6.15 min Scan# 479
 Delta R.T. -0.03 min
 Lab File: VD062647.D
 Acq: 10 Jun 2019 12:12

Tgt Ion: 43 Resp: 6986
 Ion Ratio Lower Upper
 43 100
 61 31.5 8.7 13.1#
 70 0.0 6.5 9.7#





#38

Carbon Tetrachloride

Concen: 4.257 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.07 min

Lab File: VD062647.D

Acq: 10 Jun 2019 12:12

Instrument :

MSVOA_D

ClientSampleId :

VD0610SBL01

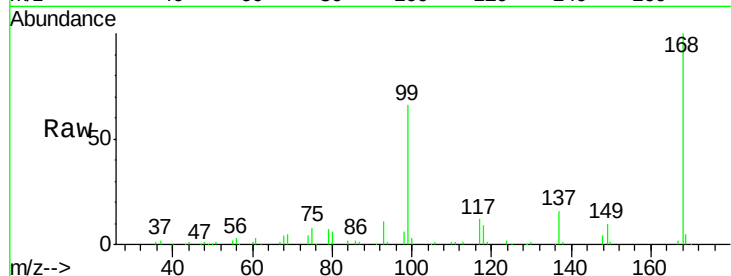
Tgt Ion:117 Resp: 81515

Ion Ratio Lower Upper

117 100

119 5.6 73.5 110.3#

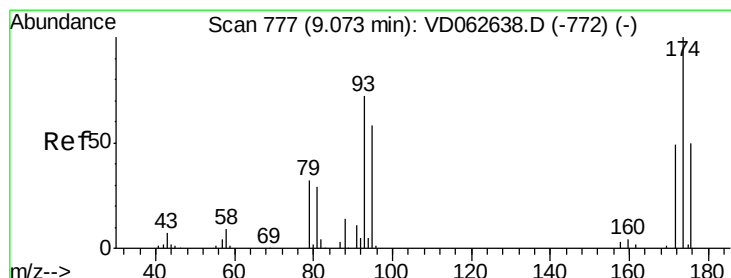
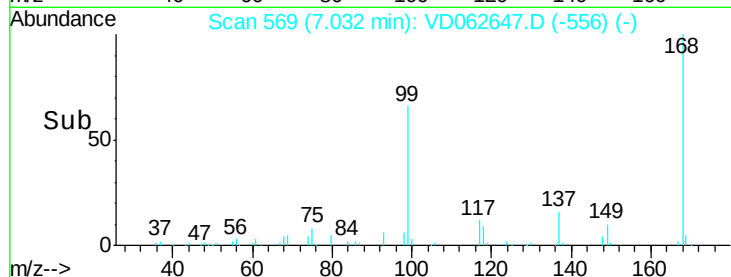
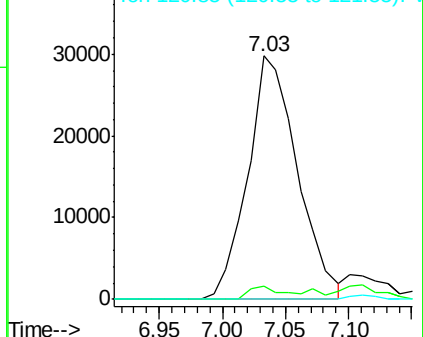
121 0.0 24.2 36.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#49

1,4-Dioxane

Concen: 51.763 ug/l

RT: 8.63 min Scan# 731

Delta R.T. -0.45 min

Lab File: VD062647.D

Acq: 10 Jun 2019 12:12

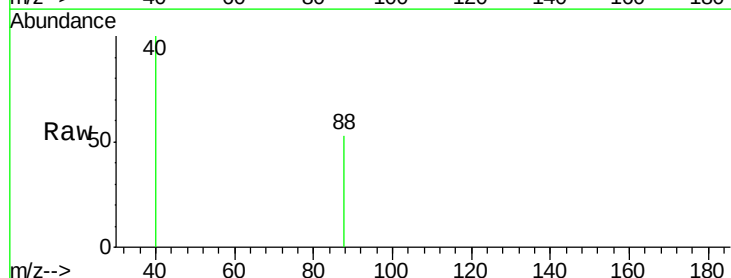
Tgt Ion: 88 Resp: 195

Ion Ratio Lower Upper

88 100

43 0.0 40.7 61.1#

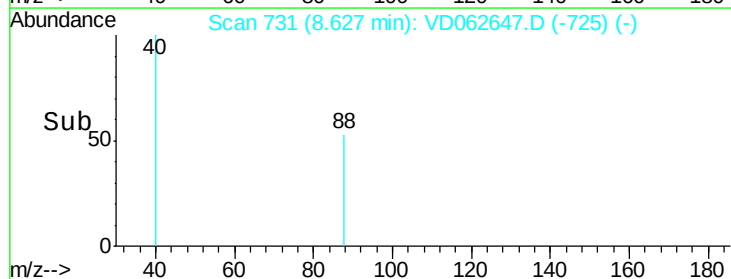
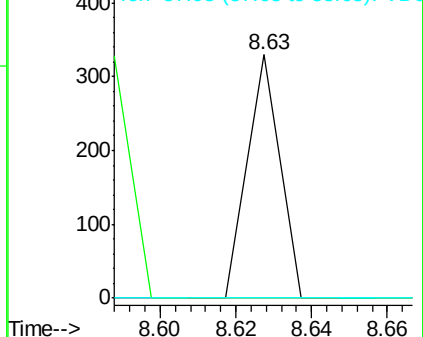
58 0.0 54.2 81.4#

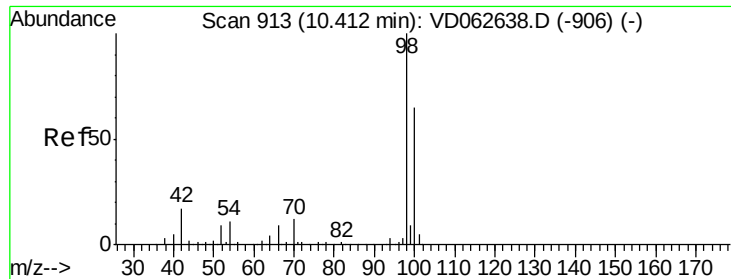


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.05 (42.75 to 43.75): V

Ion 57.95 (57.65 to 58.65): V

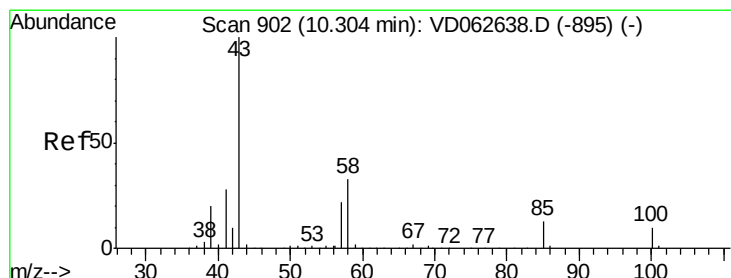
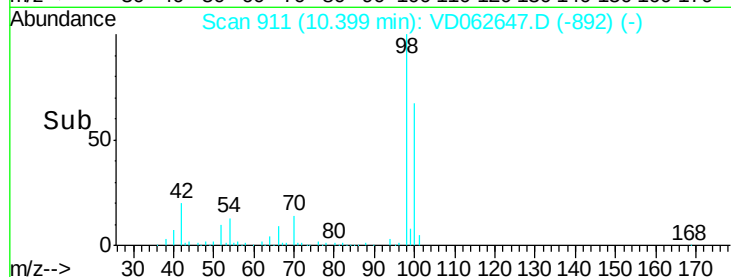
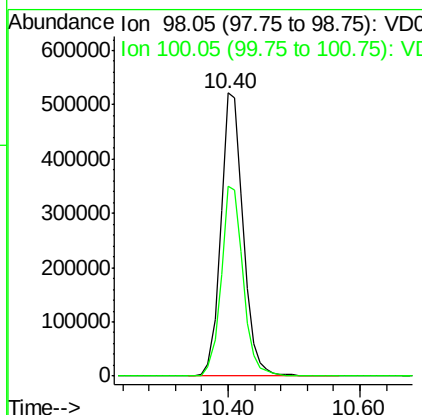
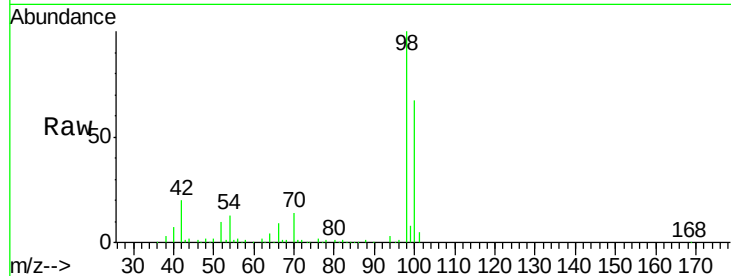




#50
Toluene-d8
Concen: 52.625 ug/l
RT: 10.40 min Scan# 911
Delta R.T. -0.01 min
Lab File: VD062647.D
Acq: 10 Jun 2019 12:12

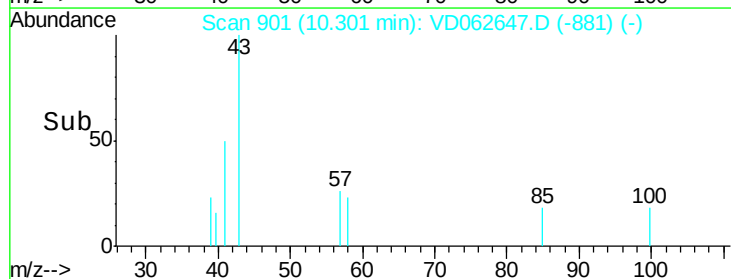
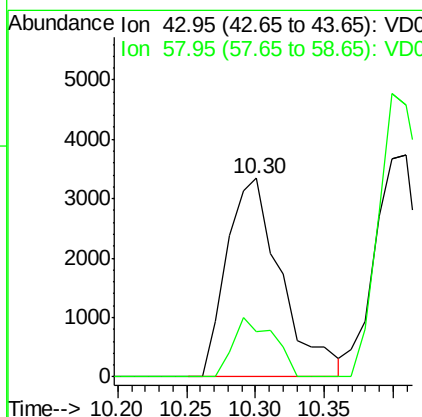
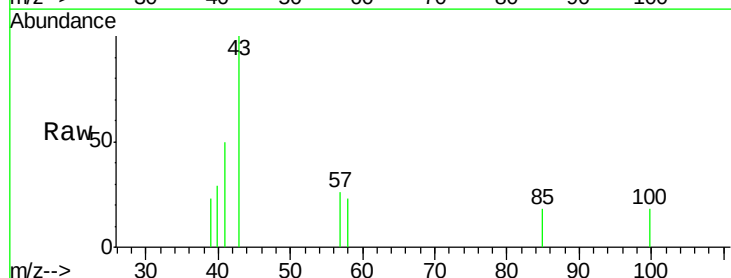
Instrument :
MSVOA_D
ClientSampleId :
VD0610SBL01

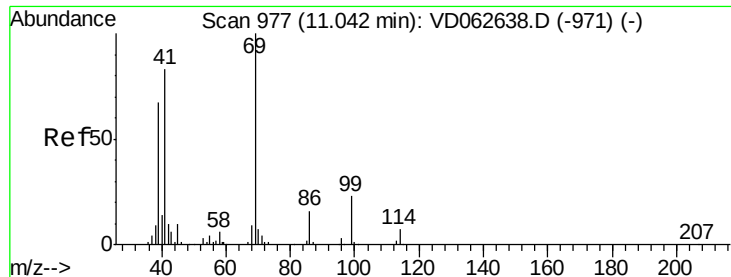
Tgt Ion: 98 Resp: 1235712
Ion Ratio Lower Upper
98 100
100 67.2 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 2.049 ug/l
RT: 10.30 min Scan# 901
Delta R.T. -0.00 min
Lab File: VD062647.D
Acq: 10 Jun 2019 12:12

Tgt Ion: 43 Resp: 9166
Ion Ratio Lower Upper
43 100
58 22.6 26.1 39.1#





#56

Ethyl methacrylate

Concen: 4.028 ug/l

RT: 11.03 min Scan# 975

Delta R.T. -0.01 min

Lab File: VD062647.D

Acq: 10 Jun 2019 12:12

Instrument :

MSVOA_D

ClientSampleId :

VD0610SBL01

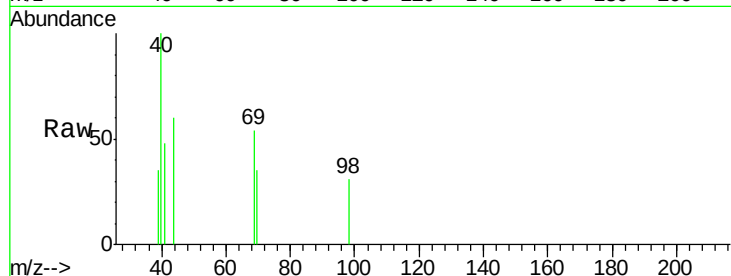
Tgt Ion: 69 Resp: 633

Ion Ratio Lower Upper

69 100

41 54.0 66.2 99.4#

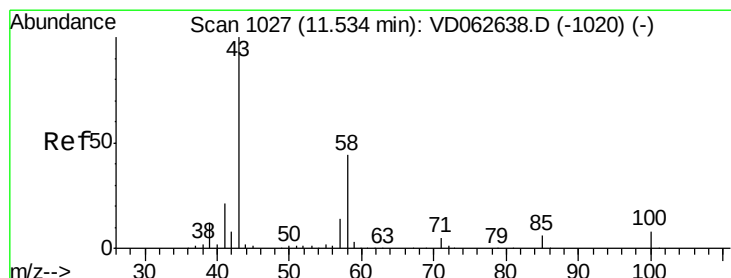
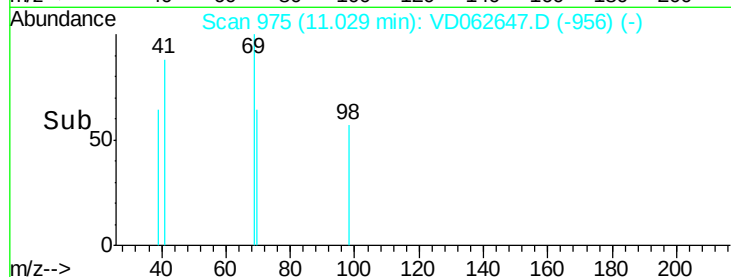
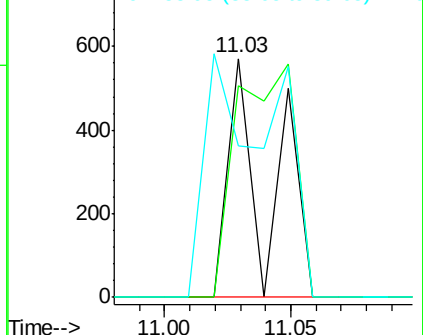
39 38.8 53.8 80.8#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC



#59

2-Hexanone

Concen: 1.629 ug/l

RT: 11.53 min Scan# 1026

Delta R.T. -0.00 min

Lab File: VD062647.D

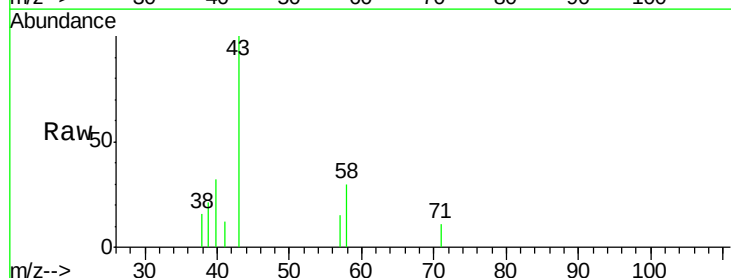
Acq: 10 Jun 2019 12:12

Tgt Ion: 43 Resp: 5420

Ion Ratio Lower Upper

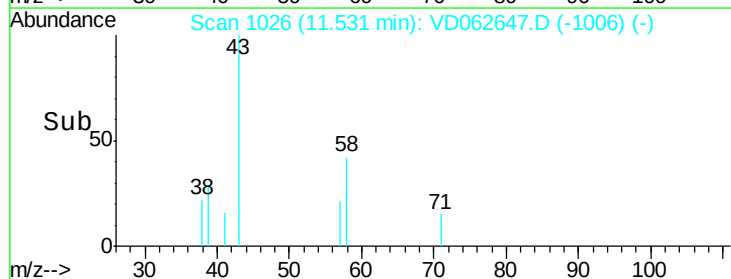
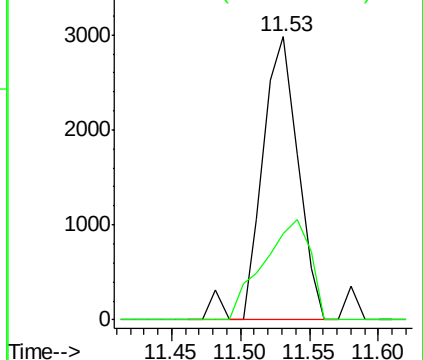
43 100

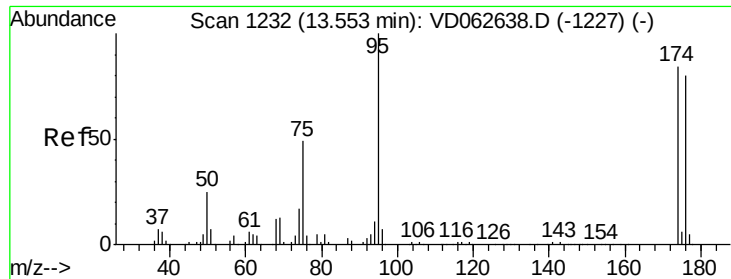
58 30.3 21.8 65.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 51.886 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD062647.D

Acq: 10 Jun 2019 12:12

Instrument :

MSVOA_D

ClientSampleId :

VD0610SBL01

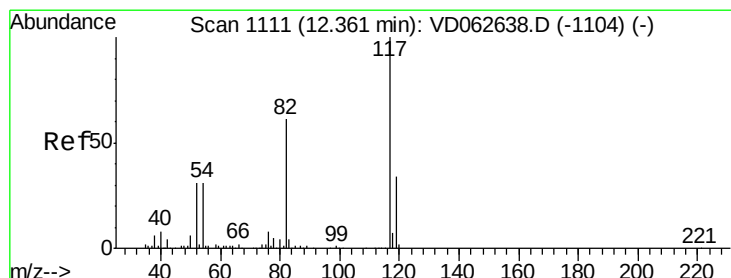
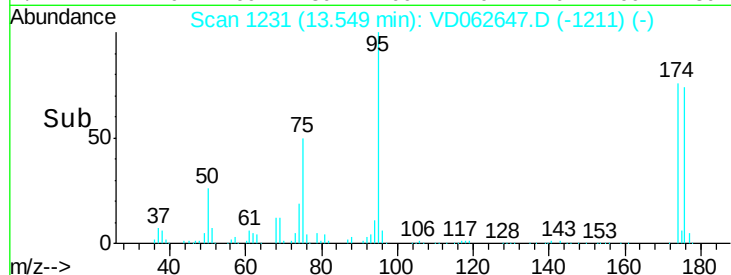
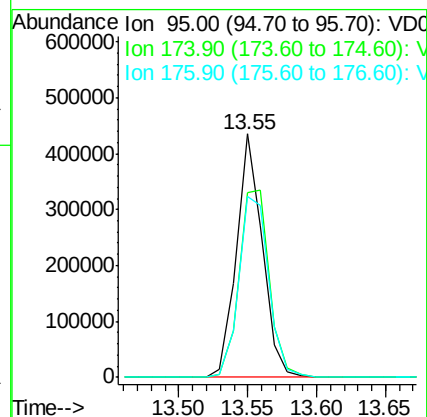
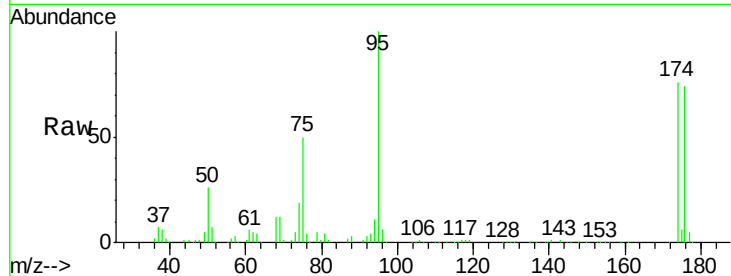
Tgt Ion: 95 Resp: 568417

Ion Ratio Lower Upper

95 100

174 75.7 0.0 167.0

176 74.4 0.0 159.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VD062647.D

Acq: 10 Jun 2019 12:12

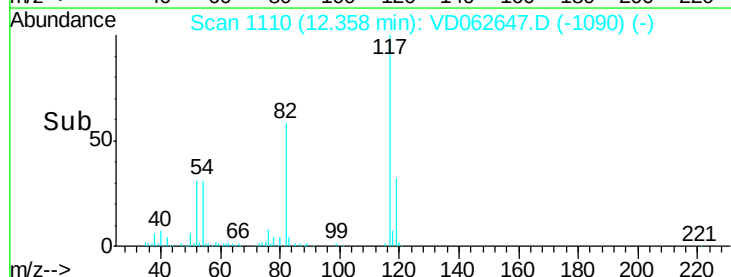
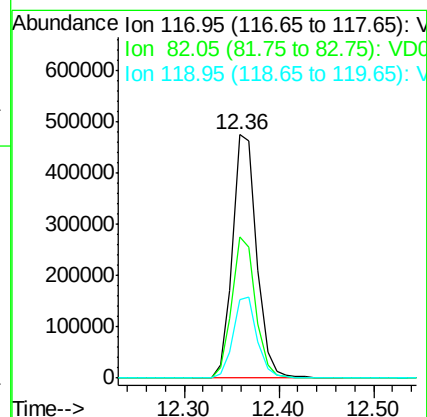
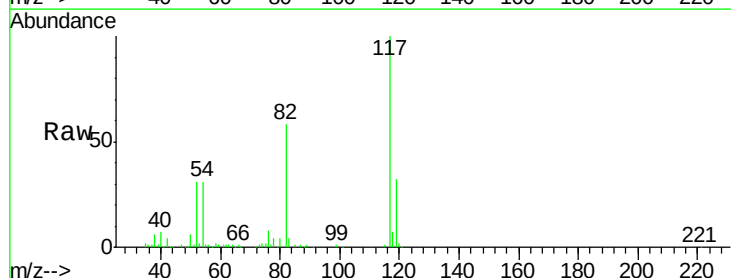
Tgt Ion: 117 Resp: 841350

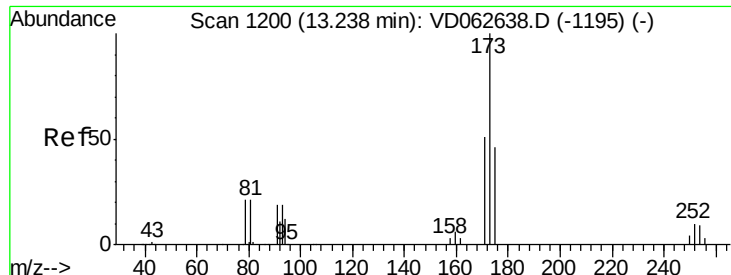
Ion Ratio Lower Upper

117 100

82 57.9 48.7 73.1

119 32.2 27.0 40.6

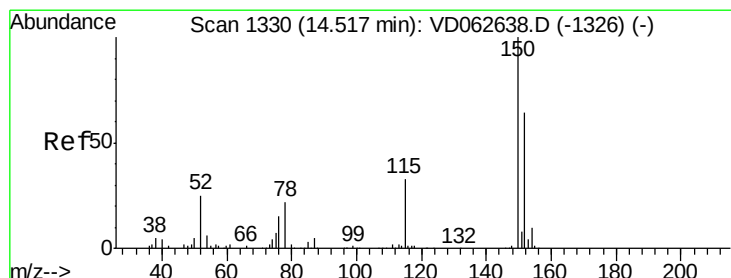
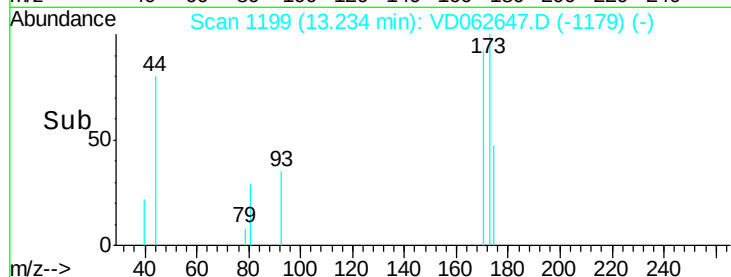
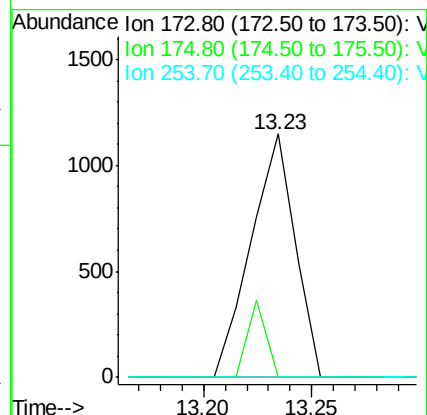
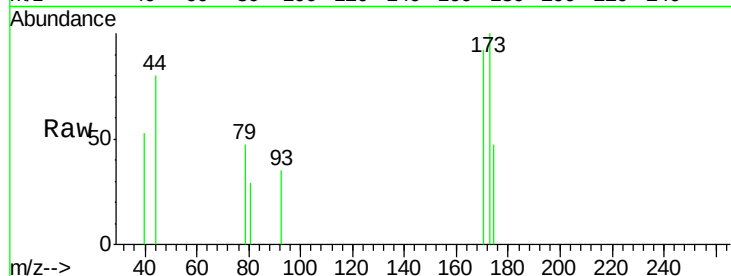




#71
Bromoform
Concen: 3.058 ug/l
RT: 13.23 min Scan# 1199
Delta R.T. -0.00 min
Lab File: VD062647.D
Acq: 10 Jun 2019 12:12

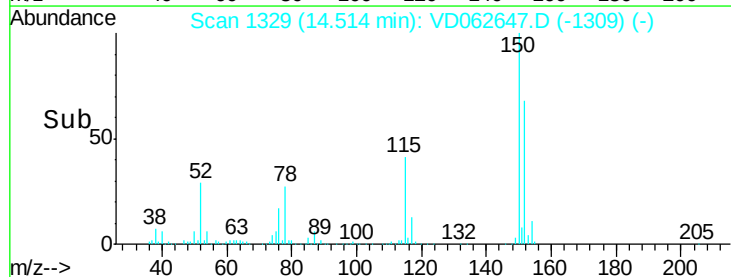
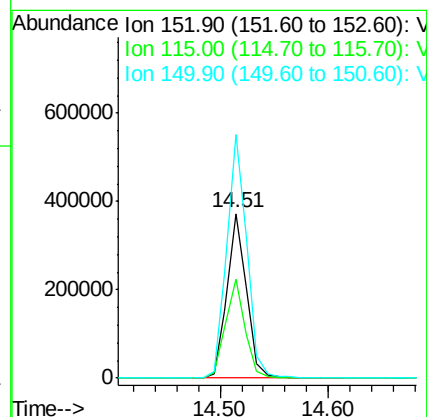
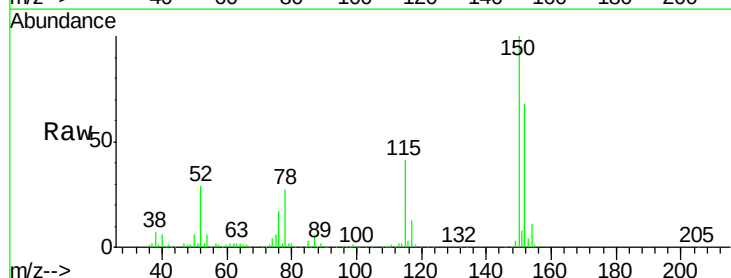
Instrument :
MSVOA_D
ClientSampleId :
VD0610SBL01

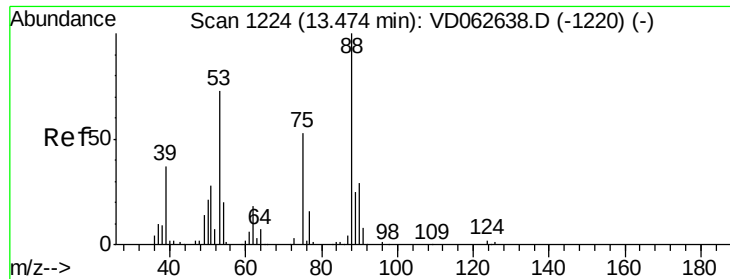
Tgt Ion:173 Resp: 1639
Ion Ratio Lower Upper
173 100
175 0.0 22.9 68.7#
254 0.0 7.0 10.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VD062647.D
Acq: 10 Jun 2019 12:12

Tgt Ion:152 Resp: 464428
Ion Ratio Lower Upper
152 100
115 60.1 30.1 90.5
150 147.8 0.0 314.0

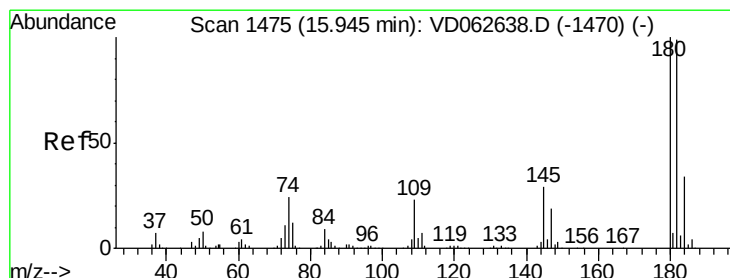
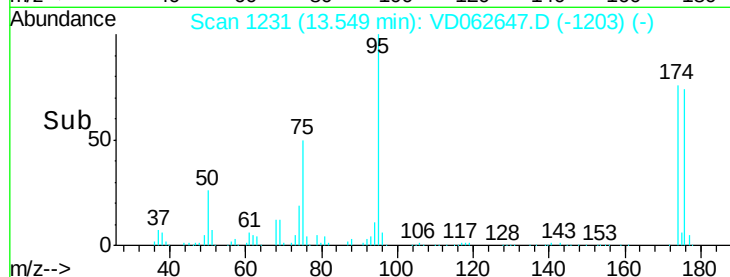
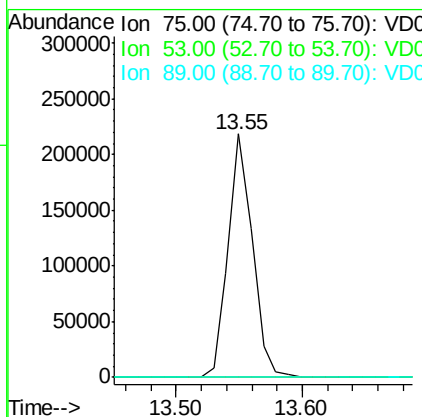
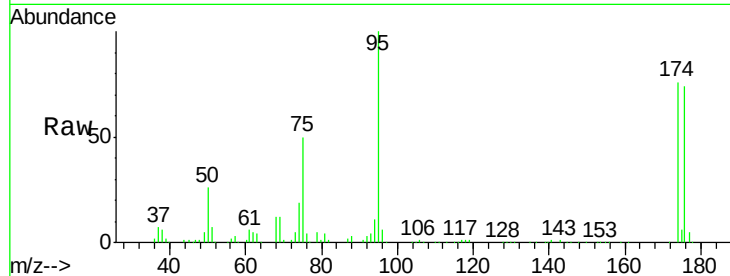




#81
trans-1,4-Dichloro-2-butene
Concen: 146.594 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. 0.08 min
Lab File: VD062647.D
Acq: 10 Jun 2019 12:12

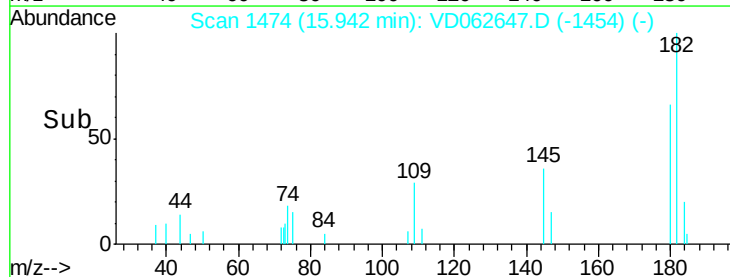
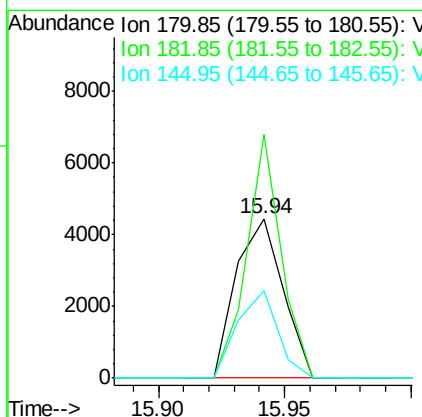
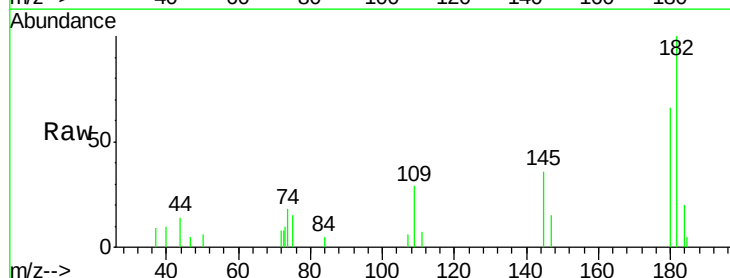
Instrument :
MSVOA_D
ClientSampleId :
VD0610SBL01

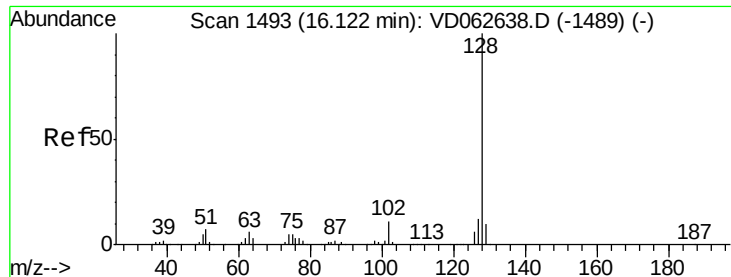
Tgt Ion: 75 Resp: 288999
Ion Ratio Lower Upper
75 100
53 0.0 109.4 164.2#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 4.012 ug/l
RT: 15.94 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VD062647.D
Acq: 10 Jun 2019 12:12

Tgt Ion: 180 Resp: 5716
Ion Ratio Lower Upper
180 100
182 152.6 49.4 148.2#
145 55.1 14.5 43.6#





#95
Naphthalene
Concen: 4.244 ug/l
RT: 16.12 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VD062647.D
Acq: 10 Jun 2019 12:12

Instrument :
MSVOA_D
ClientSampleId :
VD0610SBL01

Tgt Ion:128 Resp: 14379
Ion Ratio Lower Upper
128 100
127 16.5 9.7 14.5#
129 9.1 8.1 12.1

