

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061319\
 Data File : VD062699.D
 Acq On : 13 Jun 2019 17:49
 Operator : VA/AP
 Sample : K3361-03
 Misc : 5.23g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 14 06:48:04 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	7.05	168	626278	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.24	114	908207	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.38	117	658204	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	260581	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.47	65	301300	33.34	ug/l	0.02
Spiked Amount	50.000		Recovery	=	66.68%	
35) Dibromofluoromethane	6.95	113	296140	30.92	ug/l	0.03
Spiked Amount	50.000		Recovery	=	61.84%	
50) Toluene-d8	10.42	98	523896	26.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	52.00%	
62) 4-Bromofluorobenzene	13.56	95	211008	22.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	44.90%	

Target Compounds

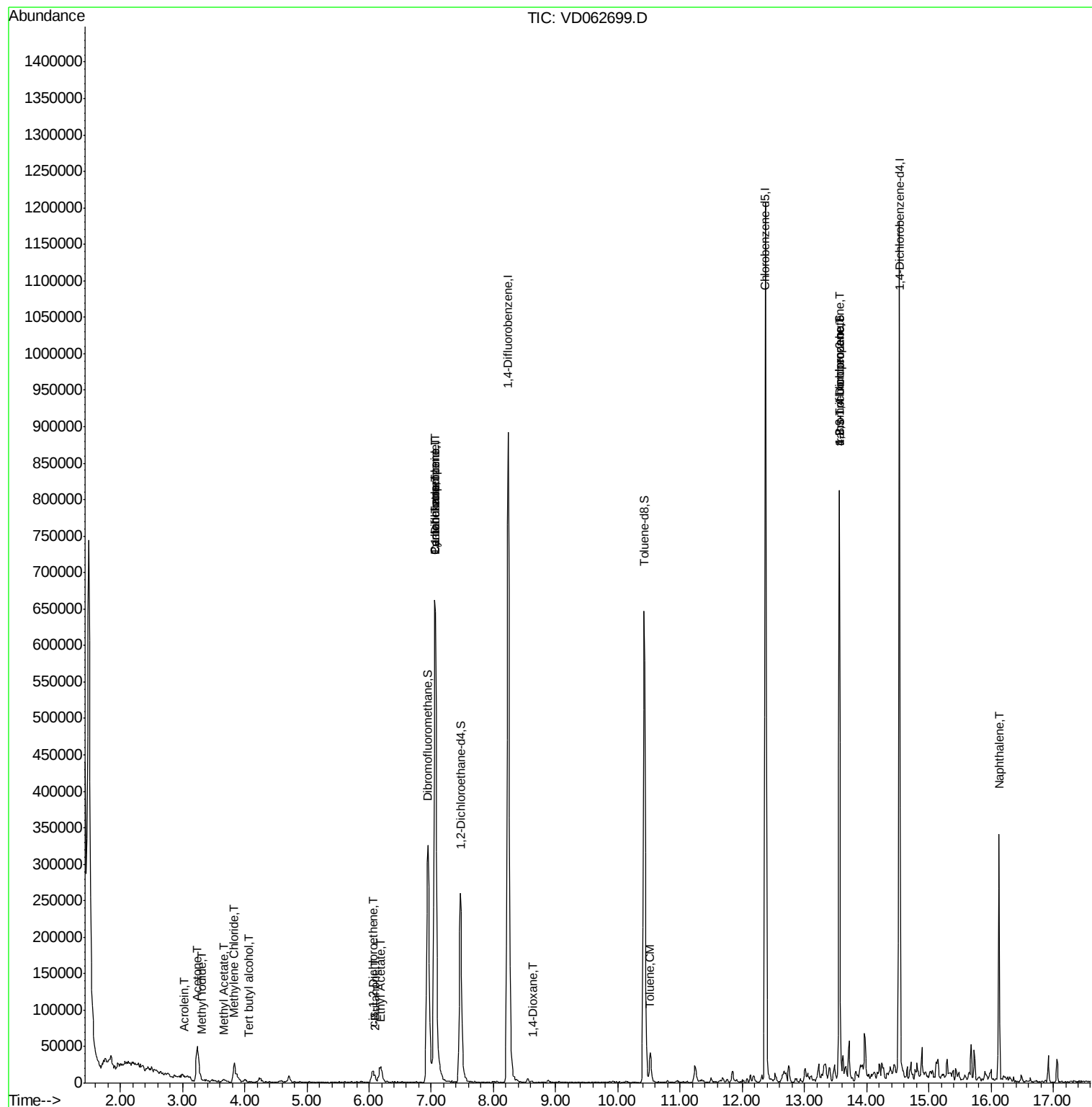
						Qvalue
2) Dichlorodifluoromethane	1.58	85	256	Below Cal	#	42
10) Methyl Iodide	3.31	142	229	4.028	ug/l #	24
11) Tert butyl alcohol	4.08	59	578	1.556	ug/l #	61
13) Acrolein	3.03	56	237	1.983	ug/l #	12
16) Acetone	3.24	43	110973	67.059	ug/l	98
18) Methyl Acetate	3.67	43	7592	2.792	ug/l #	64
20) Methylene Chloride	3.84	84	14296	1.861	ug/l #	93
25) 2-Butanone	6.09	43	12022	7.447	ug/l	93
27) cis-1,2-Dichloroethene	6.06	96	10569	1.606	ug/l	69
31) Cyclohexane	7.05	56	16532	2.318	ug/l #	15
36) 1,1-Dichloropropene	7.05	75	55012	5.292	ug/l #	50
37) Ethyl Acetate	6.19	43	2035	1.649	ug/l #	74
38) Carbon Tetrachloride	7.05	117	66897	4.072	ug/l #	17
49) 1,4-Dioxane	8.64	88	188	52.319	ug/l #	21
52) Toluene	10.53	92	17188	1.260	ug/l	78
76) 1,2,3-Trichloropropane	13.56	75	70908	20.069	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.56	75	100673	92.491	ug/l #	1
95) Naphthalene	16.13	128	203764	23.513	ug/l	96

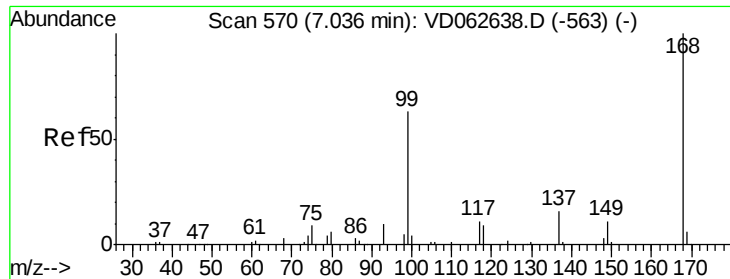
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061319\
Data File : VD062699.D
Acq On : 13 Jun 2019 17:49
Operator : VA/AP
Sample : K3361-03
Misc : 5.23g/5ml/MSVOA D/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Jun 14 06:48:04 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: 7.05 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

Instrument :

MSVOA_D

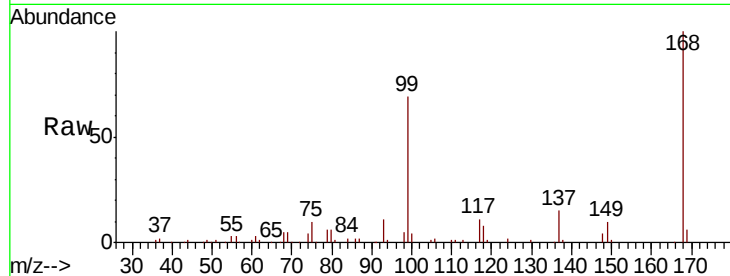
ClientSampleId :

Tot Ion:168 Resp: 626278

Ion Ratio Lower Upper

168 100

99 68.9 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

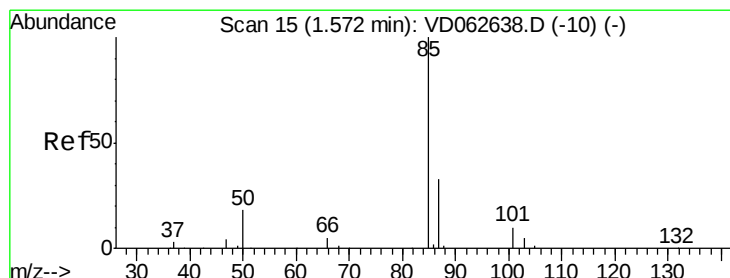
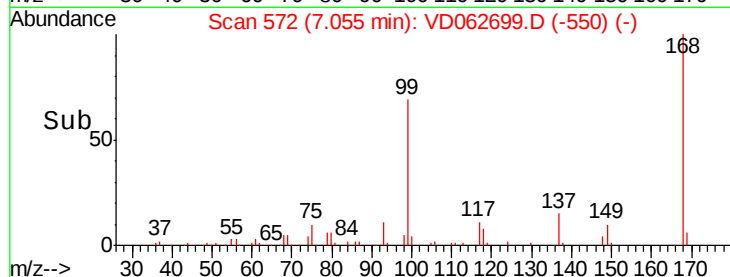
150000

100000

50000

0

Time--> 6.90 7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062699.D

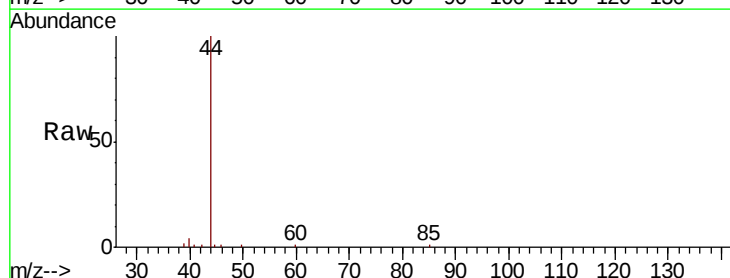
Acq: 13 Jun 2019 17:49

Tgt Ion: 85 Resp: 256

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

500

400

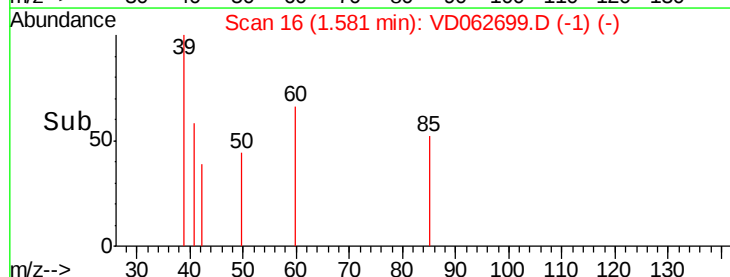
300

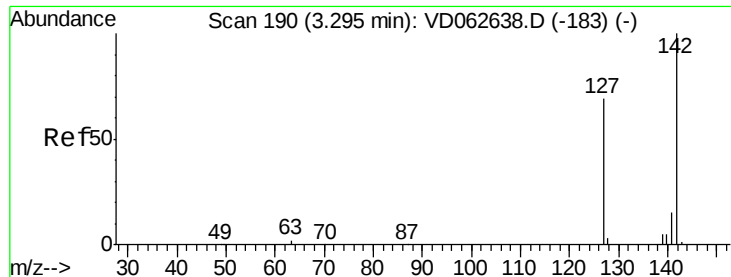
200

100

0

Time--> 1.56 1.58 1.60

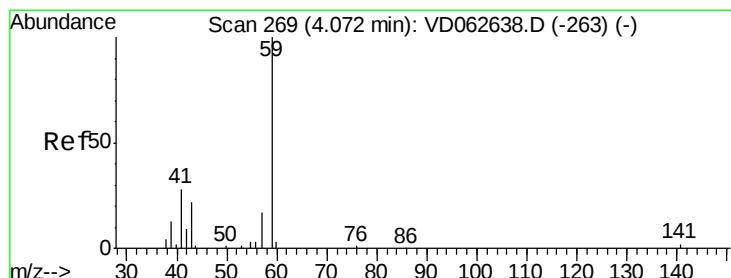
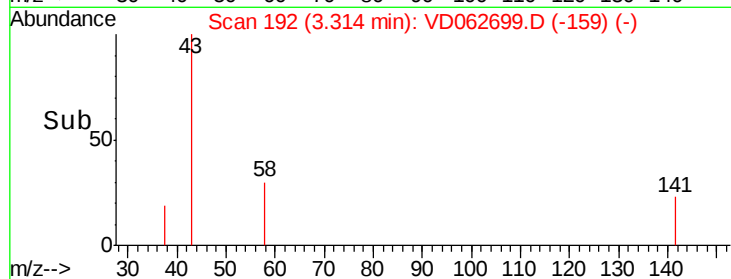
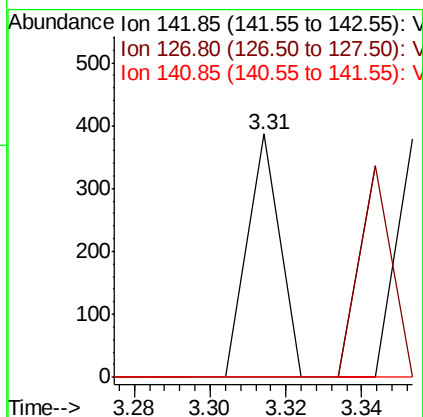
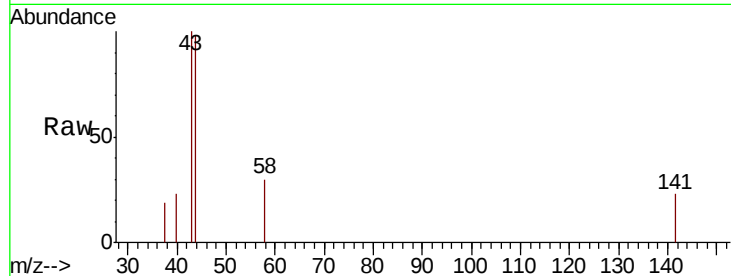




#10
Methyl Iodide
Concen: 4.028 ug/l
RT: 3.31 min Scan# 192
Delta R.T. 0.02 min
Lab File: VD062699.D
Acq: 13 Jun 2019 17:49

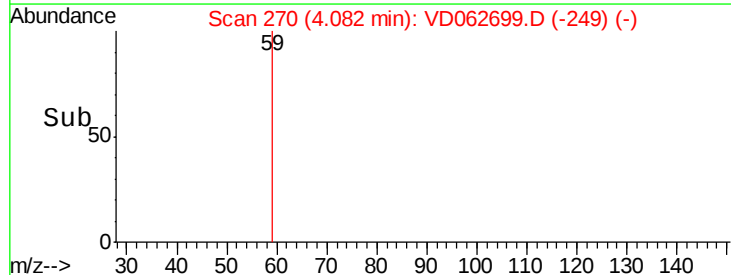
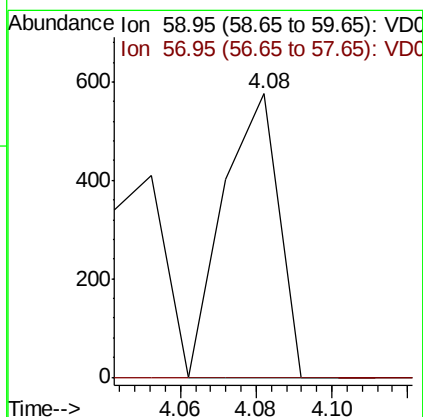
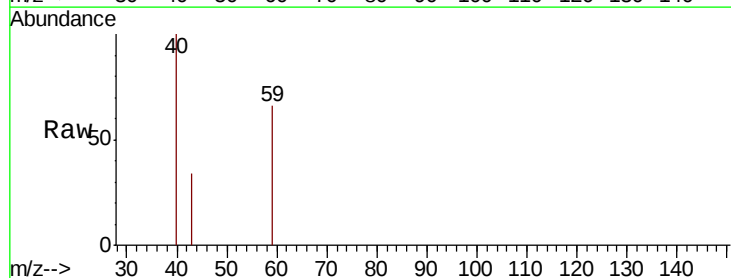
Instrument :
MSVOA_D
ClientSampled :

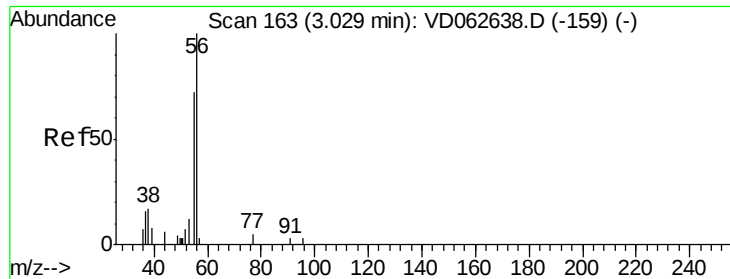
Tot Ion:142 Resp: 229
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 1.556 ug/l
RT: 4.08 min Scan# 270
Delta R.T. 0.01 min
Lab File: VD062699.D
Acq: 13 Jun 2019 17:49

Tgt Ion: 59 Resp: 578
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#





#13

Acrolein

Concen: 1.983 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.00 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

Instrument :

MSVOA_D

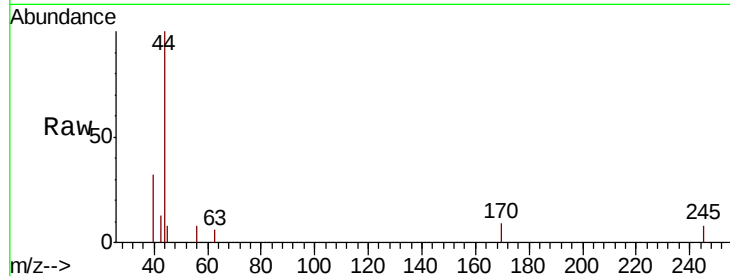
ClientSampled :

Tot Ion: 56 Resp: 237

Ion Ratio Lower Upper

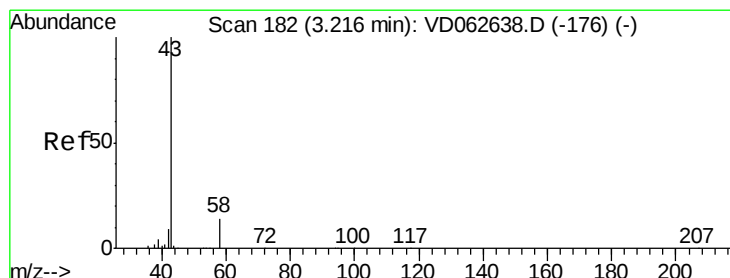
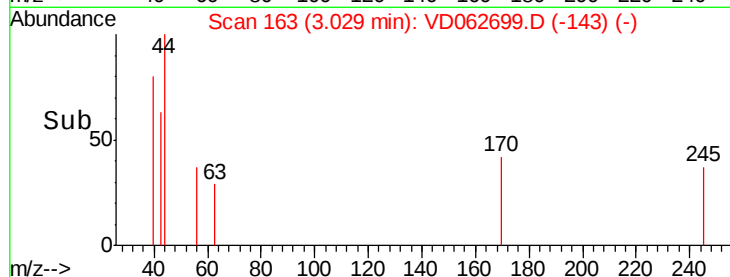
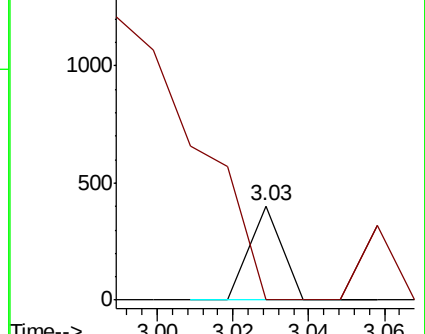
56 100

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: 67.059 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD062699.D

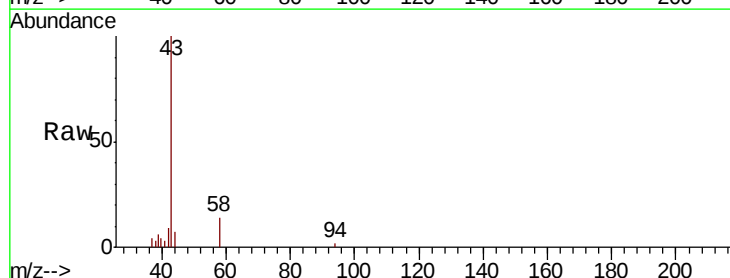
Acq: 13 Jun 2019 17:49

Tgt Ion: 43 Resp: 110973

Ion Ratio Lower Upper

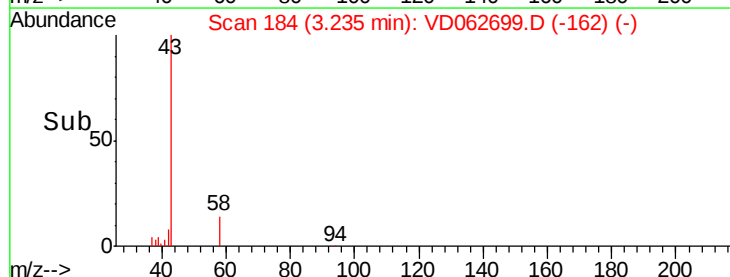
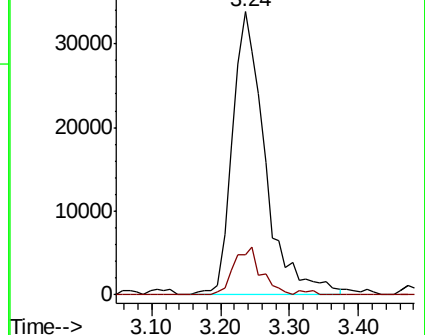
43 100

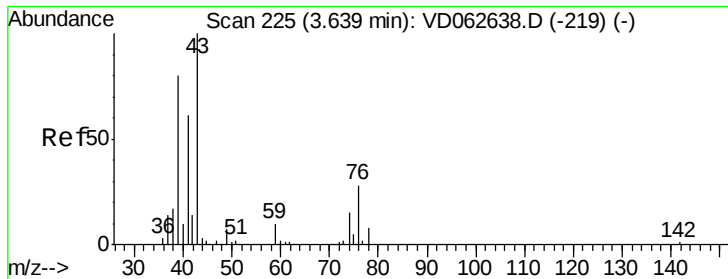
58 14.3 10.8 16.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

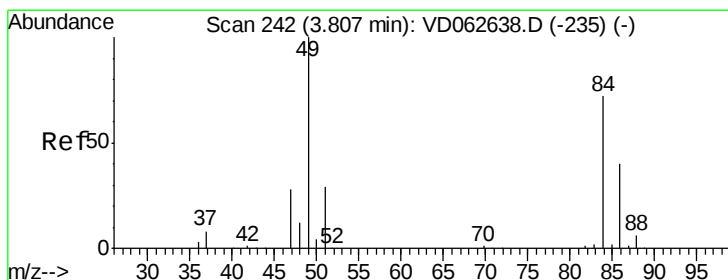
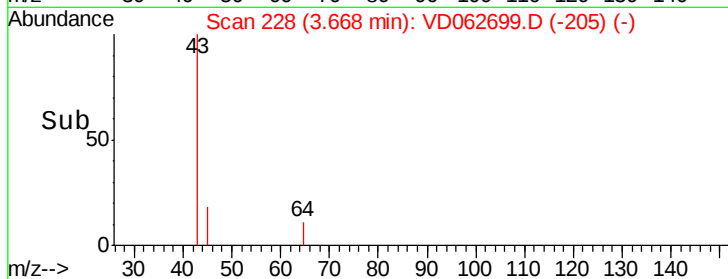
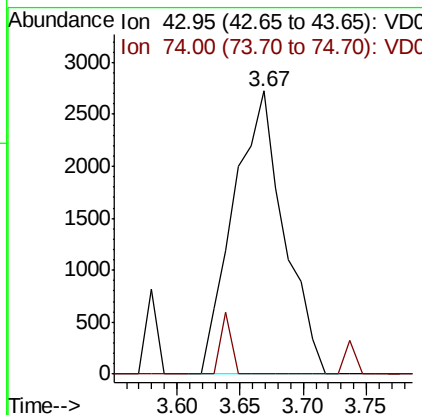
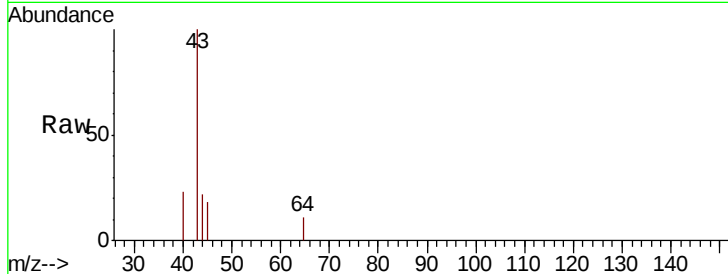




#18
Methyl Acetate
Concen: 2.792 ug/l
RT: 3.67 min Scan# 228
Delta R.T. 0.03 min
Lab File: VD062699.D
Acq: 13 Jun 2019 17:49

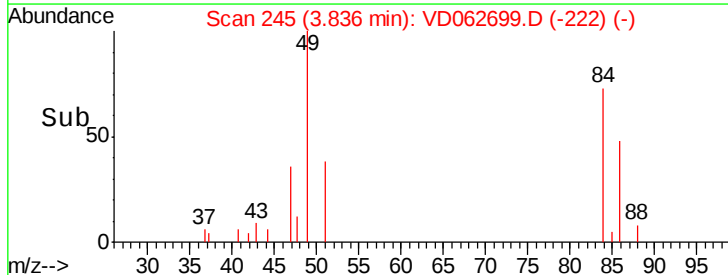
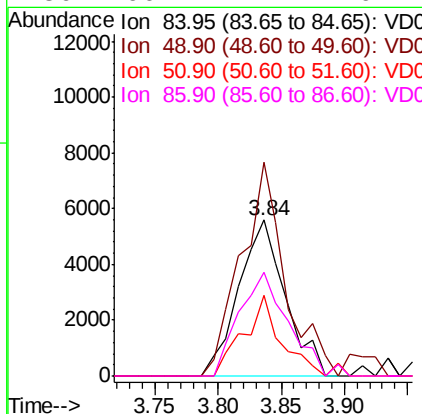
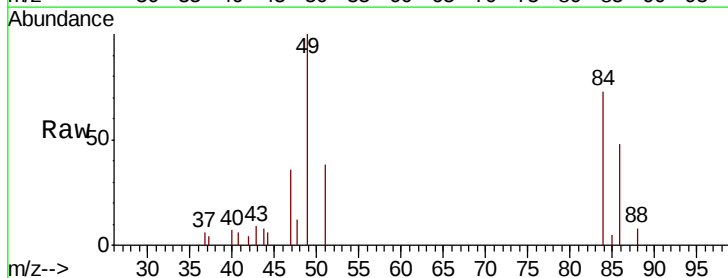
Instrument :
MSVOA_D
ClientSampleId :

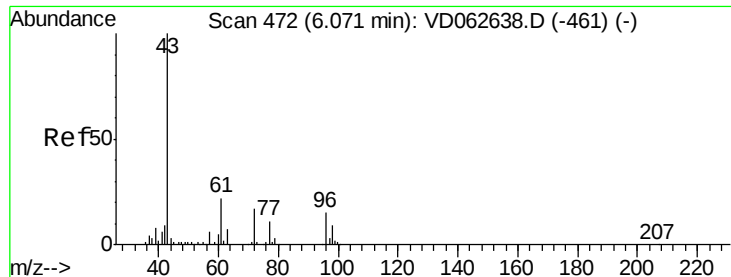
Tot Ion: 43 Resp: 7592
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: 1.861 ug/l
RT: 3.84 min Scan# 245
Delta R.T. 0.03 min
Lab File: VD062699.D
Acq: 13 Jun 2019 17:49

Tgt Ion: 84 Resp: 14296
Ion Ratio Lower Upper
84 100
49 137.2 111.2 166.8
51 51.5 31.9 47.9#
86 66.2 44.7 67.1





#25

2-Butanone

Concen: 7.447 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.02 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

Instrument :

MSVOA_D

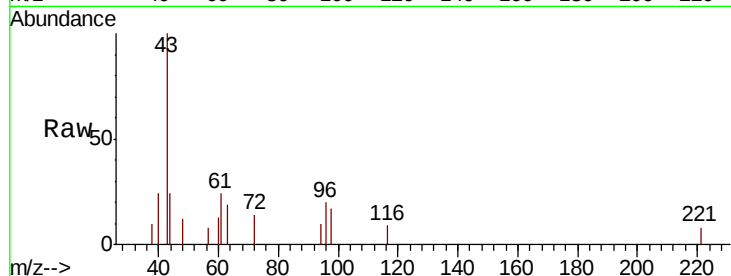
ClientSampleId :

Tot Ion: 43 Resp: 12022

Ion Ratio Lower Upper

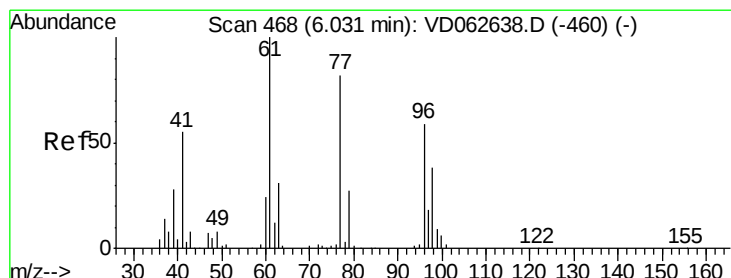
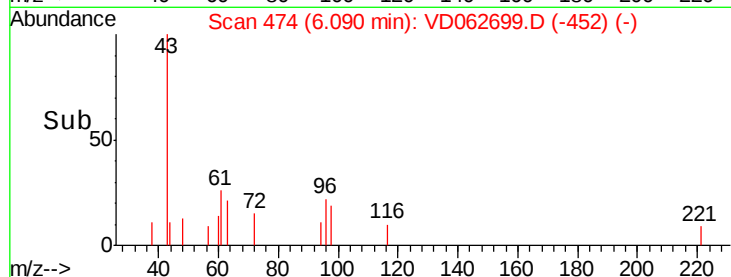
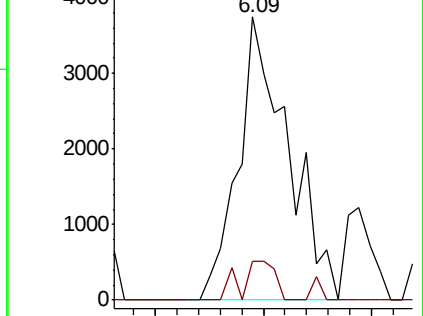
43 100

72 13.8 13.5 20.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#27

cis-1,2-Dichloroethene

Concen: 1.606 ug/l

RT: 6.06 min Scan# 471

Delta R.T. 0.03 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

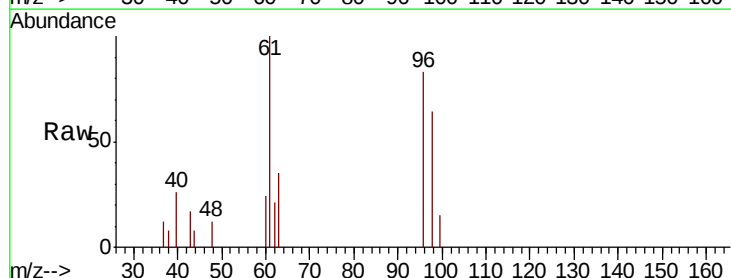
Tgt Ion: 96 Resp: 10569

Ion Ratio Lower Upper

96 100

61 120.5 0.0 340.0

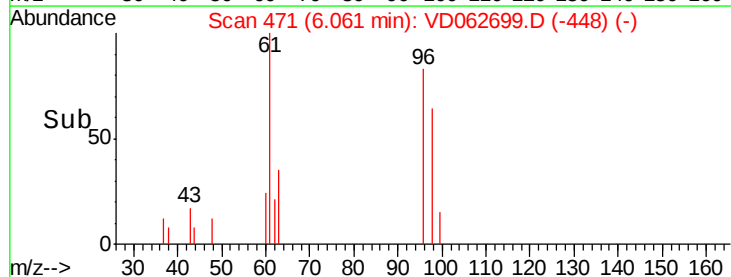
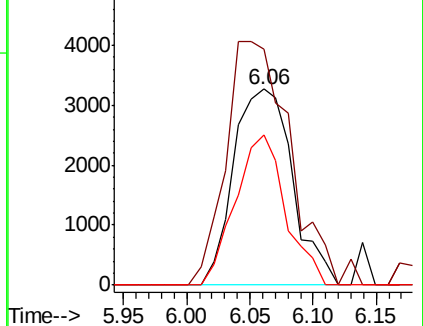
98 76.9 0.0 127.6

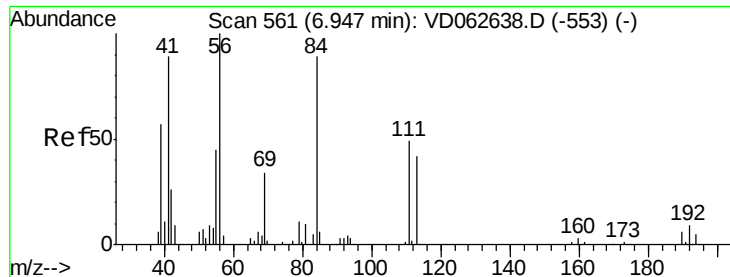


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

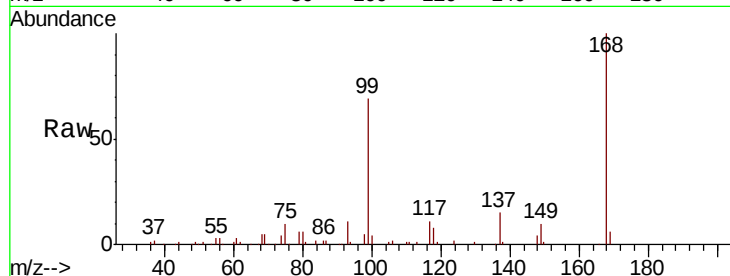




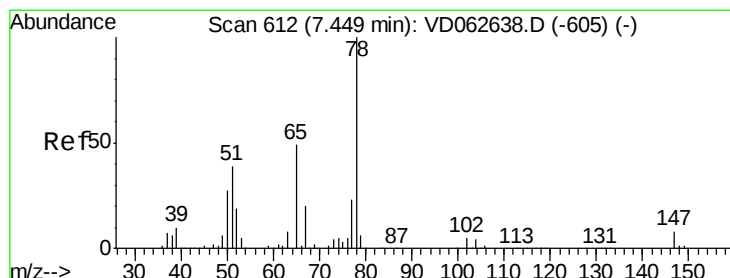
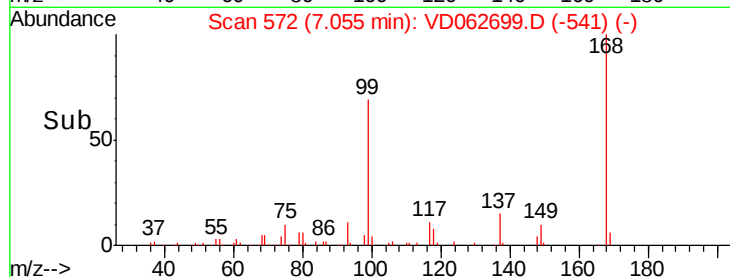
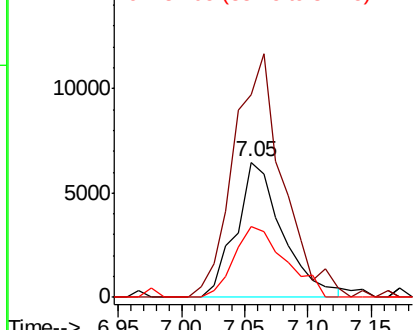
#31
Cyclohexane
Concen: 2.318 ug/l
RT: 7.05 min Scan# 572
Delta R.T. 0.11 min
Lab File: VD062699.D
Acq: 13 Jun 2019 17:49

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 16532
Ion Ratio Lower Upper
56 100
69 150.1 26.8 40.2#
84 52.6 73.9 110.9#

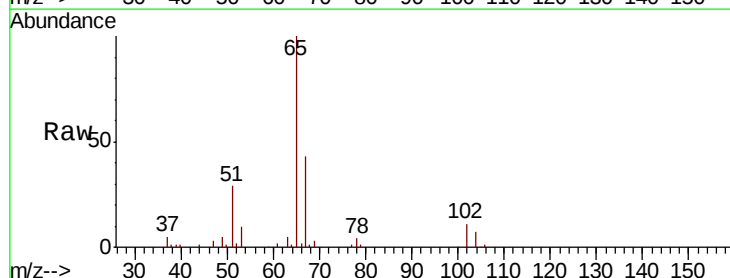


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

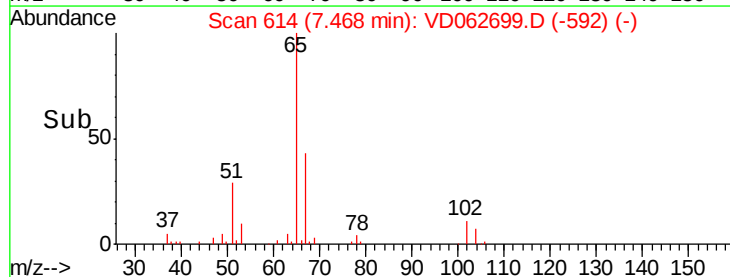
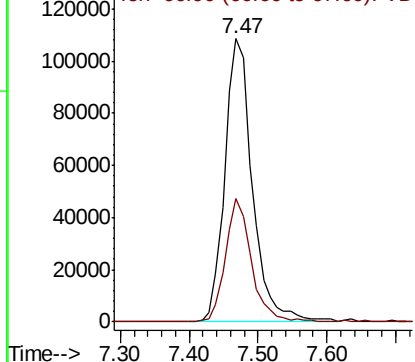


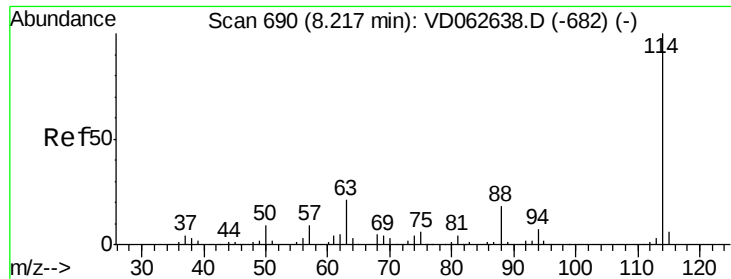
#33
1,2-Dichloroethane-d4
Concen: 33.340 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.02 min
Lab File: VD062699.D
Acq: 13 Jun 2019 17:49

Tgt Ion: 65 Resp: 301300
Ion Ratio Lower Upper
65 100
67 43.4 0.0 81.8



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

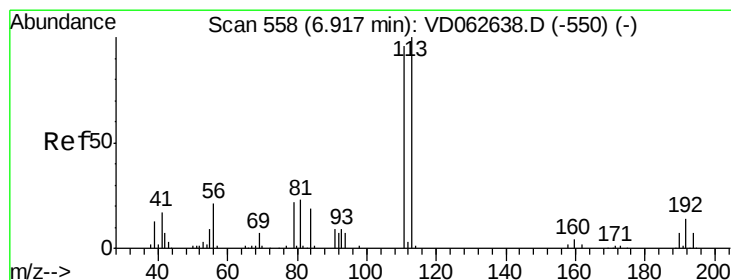
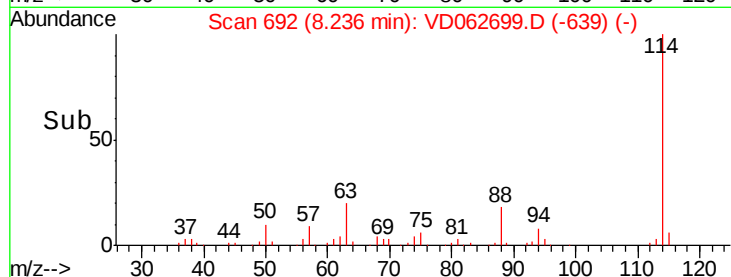
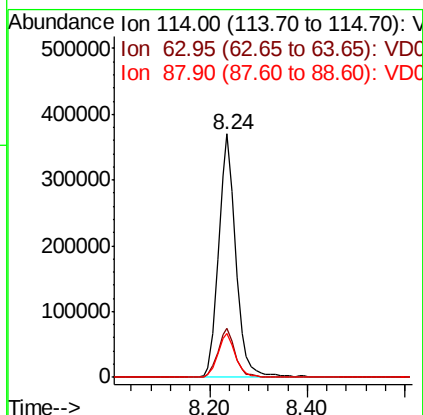
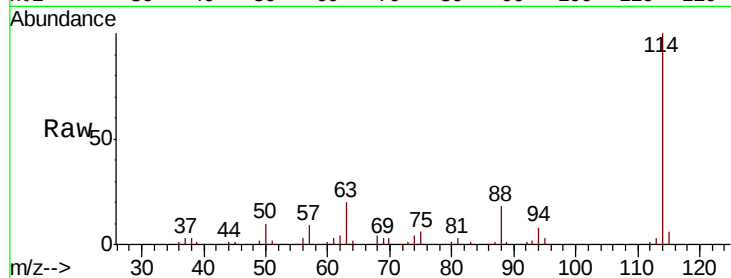




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.02 min
 Lab File: VD062699.D
 Acq: 13 Jun 2019 17:49

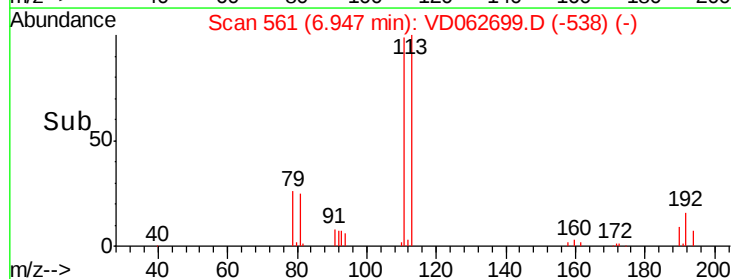
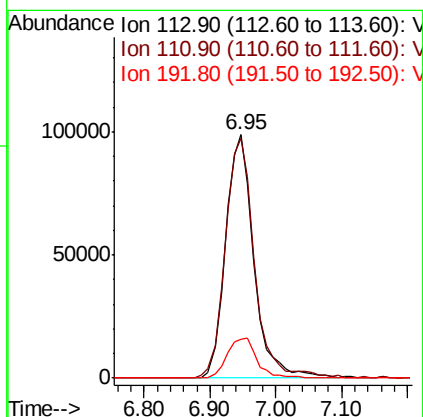
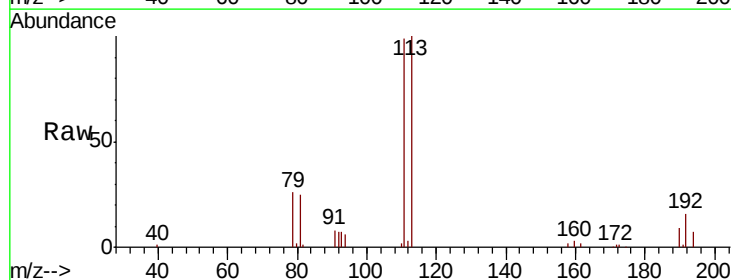
Instrument :
 MSVOA_D
 ClientSampleId :

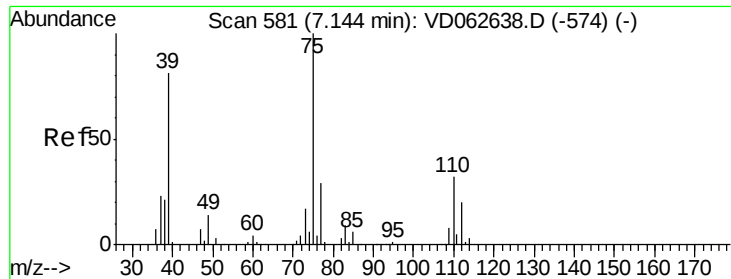
Tot Ion:114 Resp: 908207
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 42.4
 88 17.9 0.0 36.8



#35
 Dibromofluoromethane
 Concen: 30.918 ug/l
 RT: 6.95 min Scan# 561
 Delta R.T. 0.03 min
 Lab File: VD062699.D
 Acq: 13 Jun 2019 17:49

Tgt Ion:113 Resp: 296140
 Ion Ratio Lower Upper
 113 100
 111 98.7 76.4 114.6
 192 15.9 11.4 17.0





#36

1,1-Dichloropropene

Concen: 5.292 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.09 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

Instrument :

MSVOA_D

ClientSampleId :

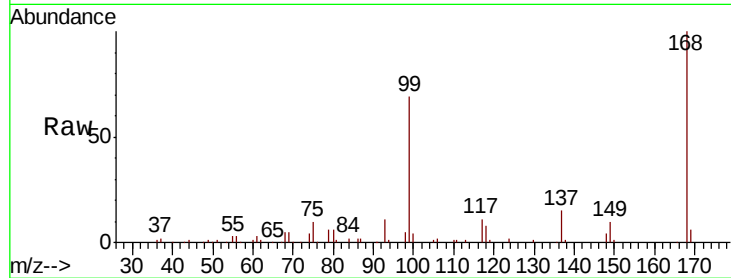
Tot Ion: 75 Resp: 55012

Ion Ratio Lower Upper

75 100

110 5.9 15.9 47.7#

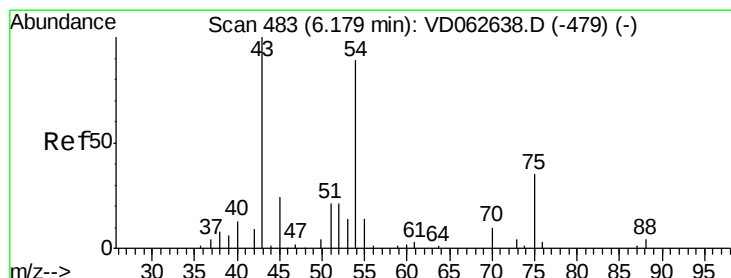
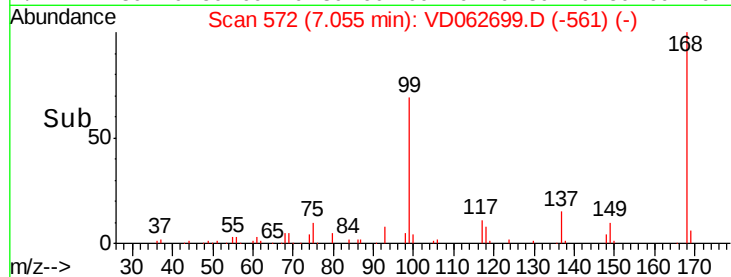
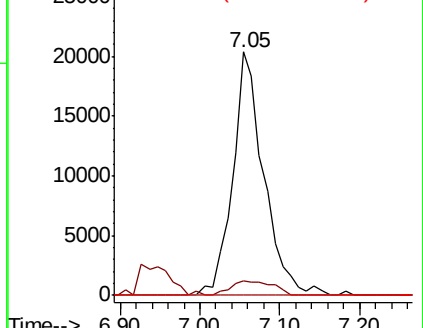
77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.649 ug/l

RT: 6.19 min Scan# 484

Delta R.T. 0.01 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

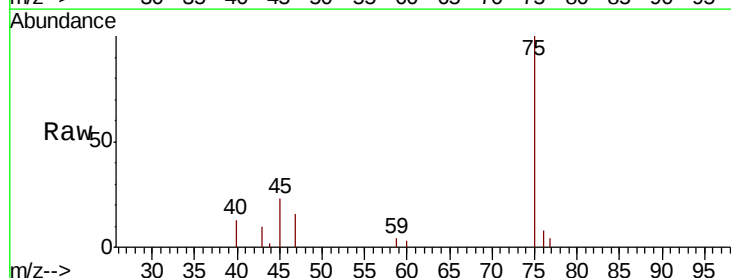
Tgt Ion: 43 Resp: 2035

Ion Ratio Lower Upper

43 100

61 0.0 8.7 13.1#

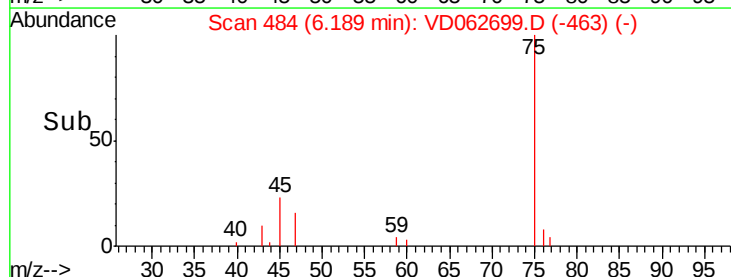
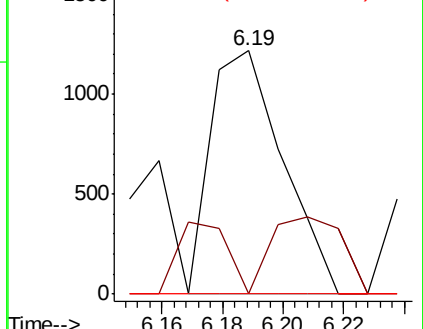
70 0.0 6.5 9.7#

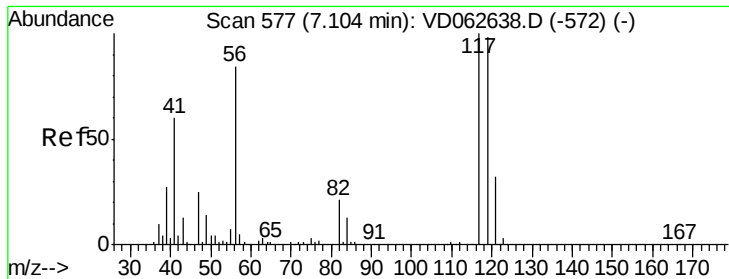


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

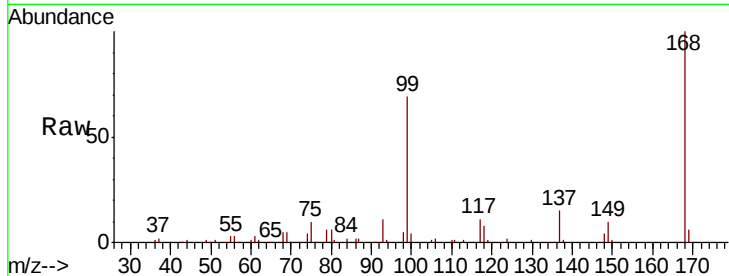




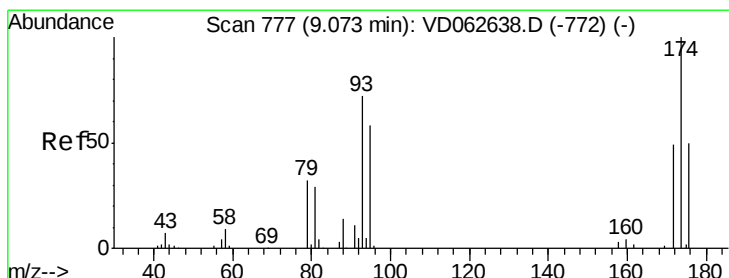
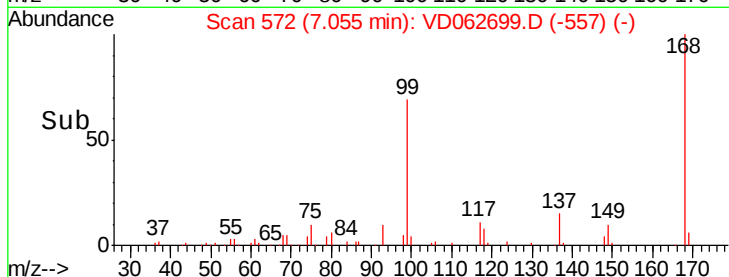
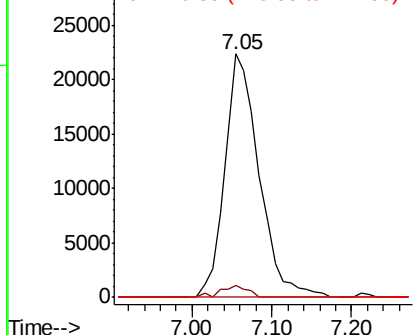
#38
Carbon Tetrachloride
Concen: 4.072 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.05 min
Lab File: VD062699.D
Acq: 13 Jun 2019 17:49

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 66897
Ion Ratio Lower Upper
117 100
119 4.8 73.5 110.3#
121 0.0 24.2 36.4#

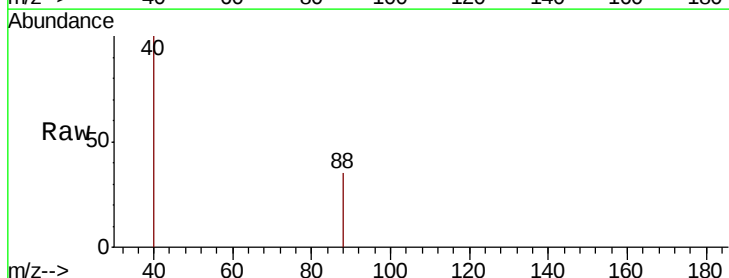


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

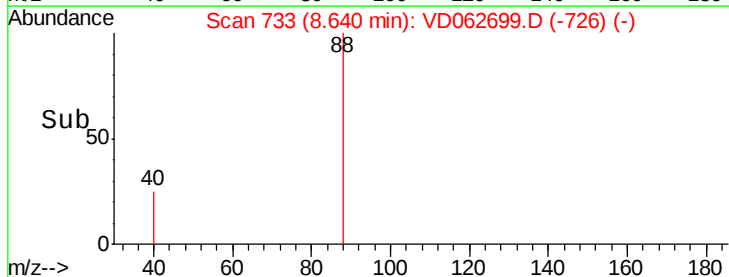
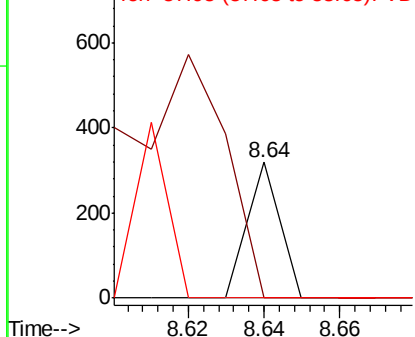


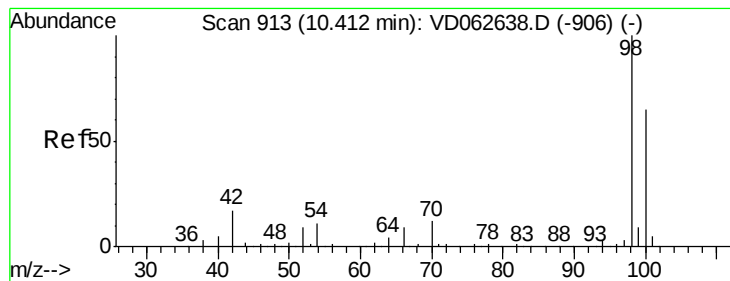
#49
1,4-Dioxane
Concen: 52.319 ug/l
RT: 8.64 min Scan# 733
Delta R.T. -0.43 min
Lab File: VD062699.D
Acq: 13 Jun 2019 17:49

Tgt Ion: 88 Resp: 188
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): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 26.001 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.01 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

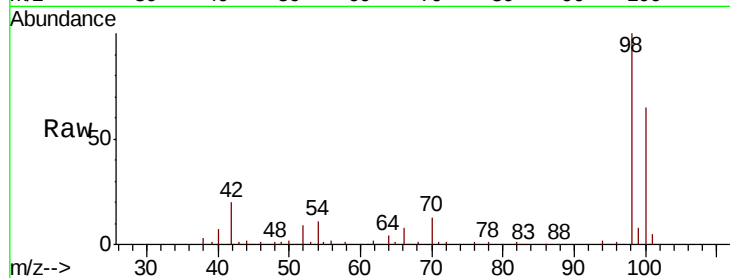
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 523896

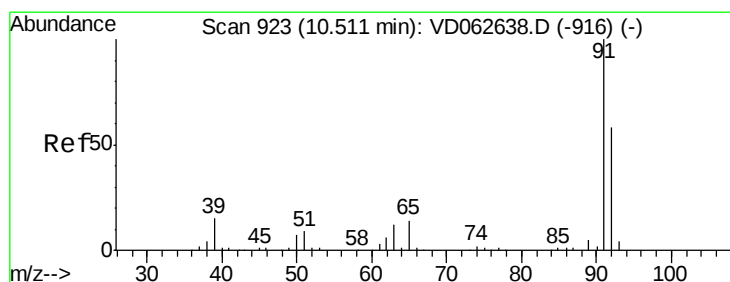
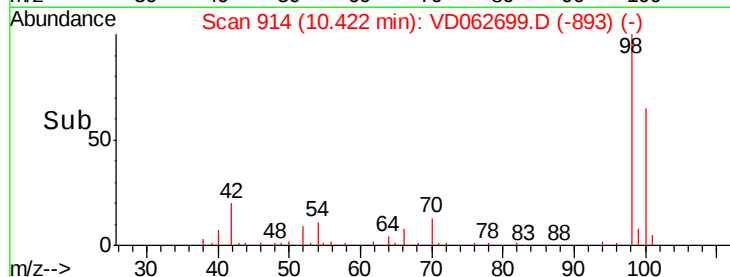
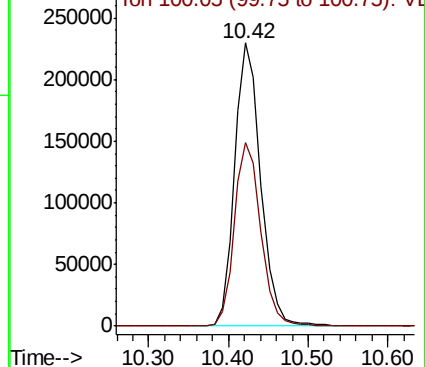
Ion Ratio Lower Upper

98 100

100 65.0 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: 1.260 ug/l

RT: 10.53 min Scan# 925

Delta R.T. 0.02 min

Lab File: VD062699.D

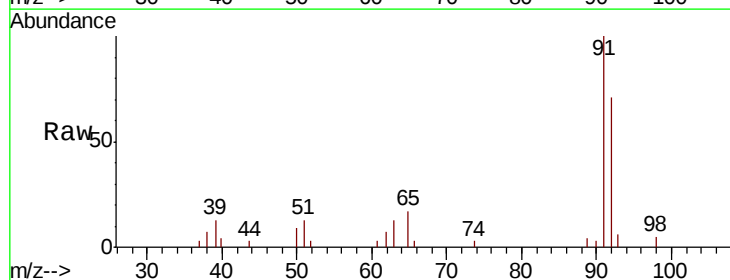
Acq: 13 Jun 2019 17:49

Tgt Ion: 92 Resp: 17188

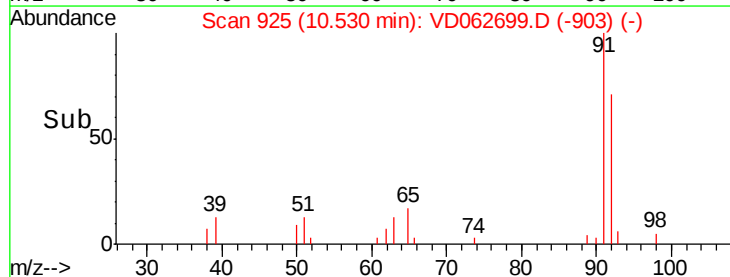
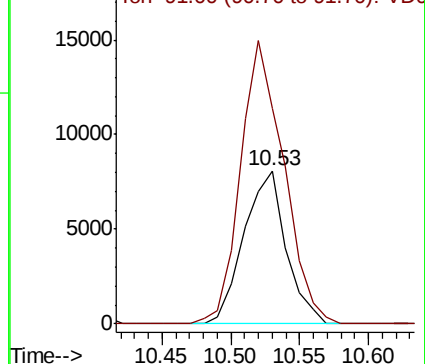
Ion Ratio Lower Upper

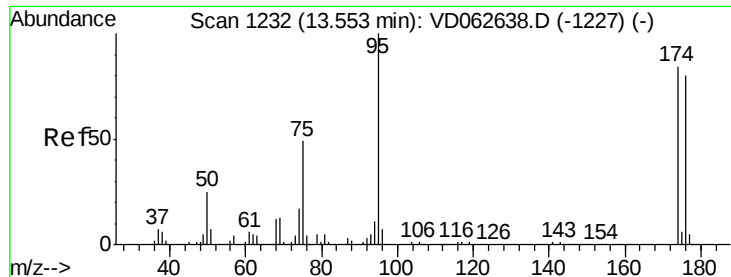
92 100

91 141.0 137.0 205.6



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





#62

4-Bromofluorobenzene

Concen: 22.447 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

Instrument :

MSVOA_D

ClientSampleId :

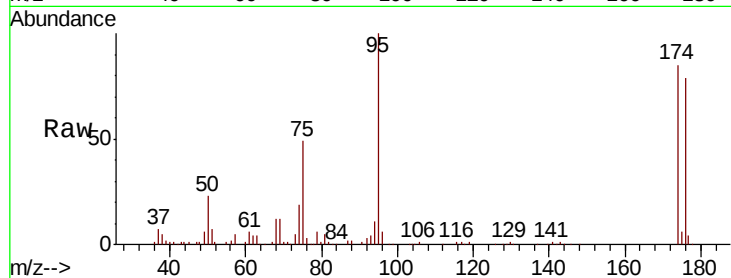
Tot Ion: 95 Resp: 211008

Ion Ratio Lower Upper

95 100

174 85.5 0.0 167.0

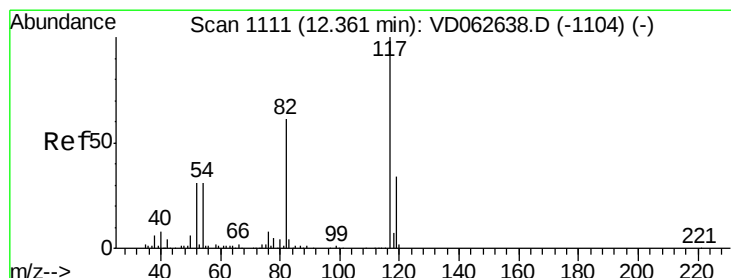
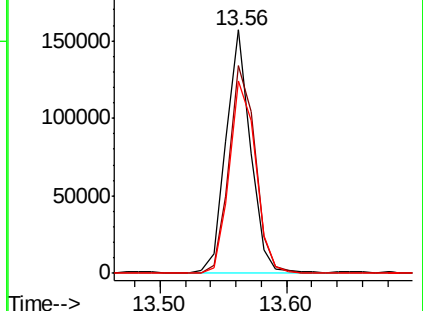
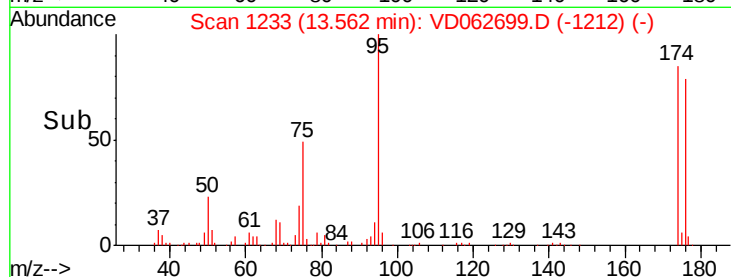
176 78.8 0.0 159.2



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: 12.38 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

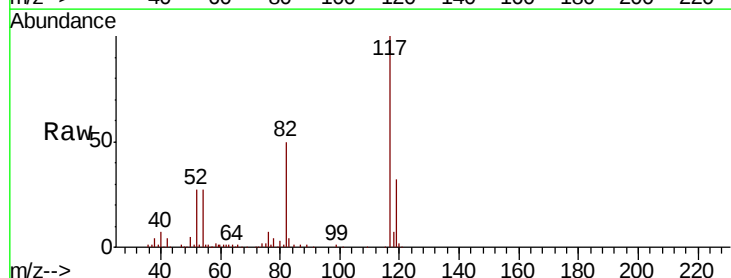
Tgt Ion: 117 Resp: 658204

Ion Ratio Lower Upper

117 100

82 50.4 48.7 73.1

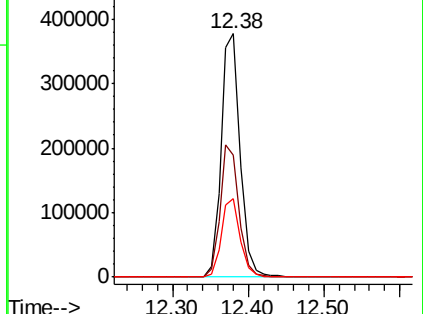
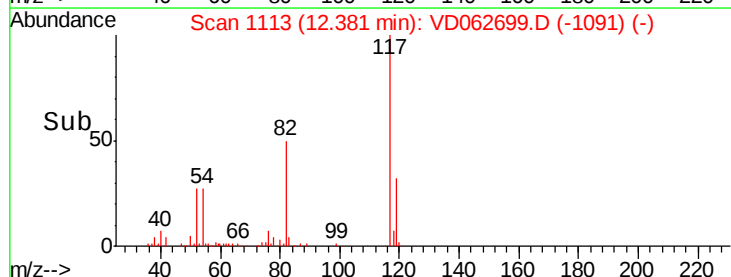
119 32.4 27.0 40.6

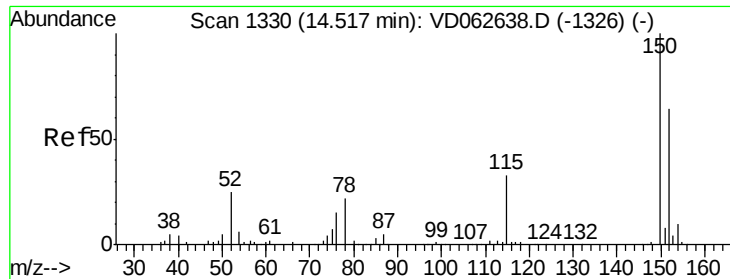


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

Instrument :

MSVOA_D

ClientSampleId :

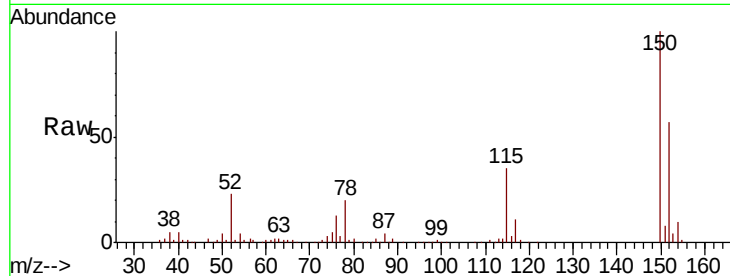
Tot Ion:152 Resp: 260581

Ion Ratio Lower Upper

152 100

115 61.6 30.1 90.5

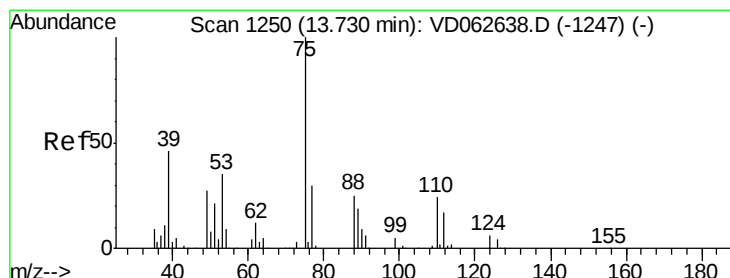
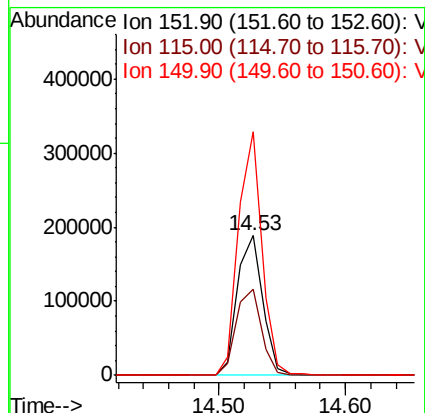
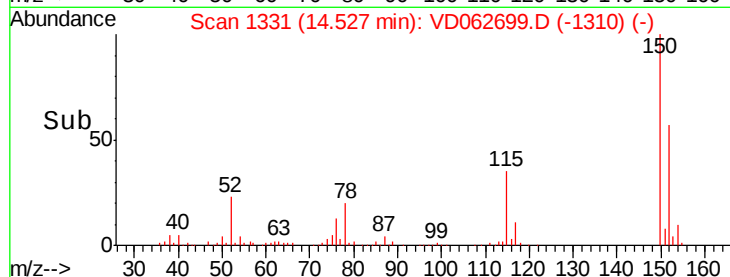
150 174.4 0.0 314.0



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



#76

1,2,3-Trichloropropane

Concen: 20.069 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD062699.D

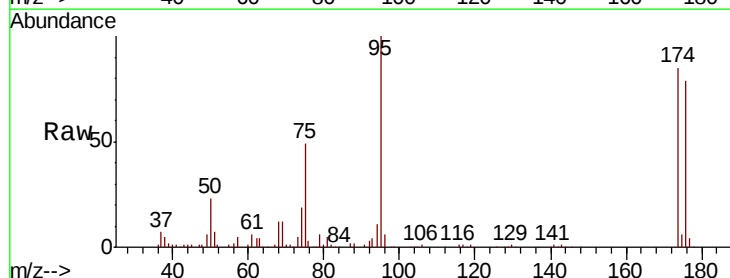
Acq: 13 Jun 2019 17:49

Tgt Ion: 75 Resp: 70908

Ion Ratio Lower Upper

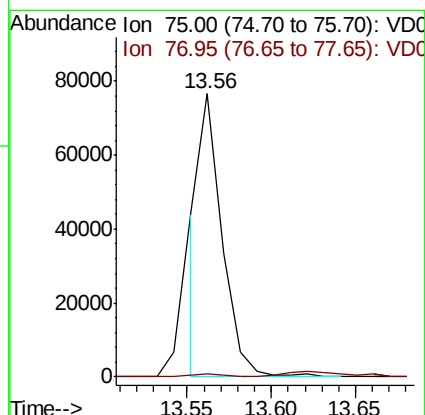
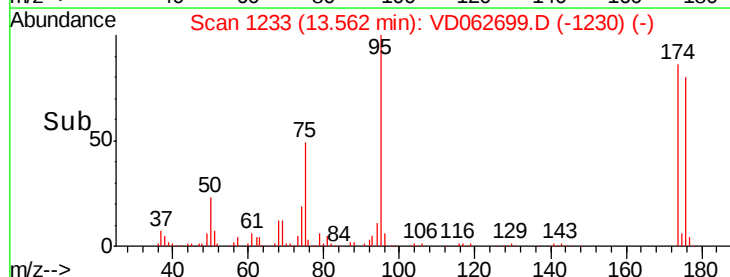
75 100

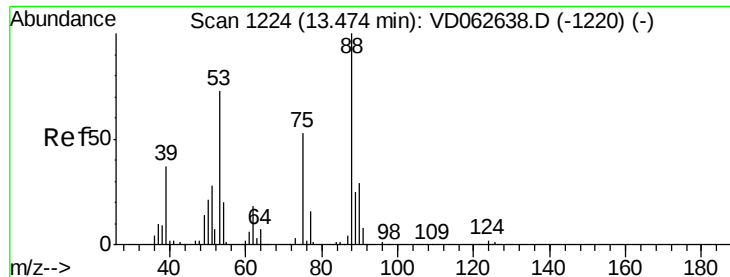
77 1.0 16.2 48.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 92.491 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

Instrument :

MSVOA_D

ClientSampled :

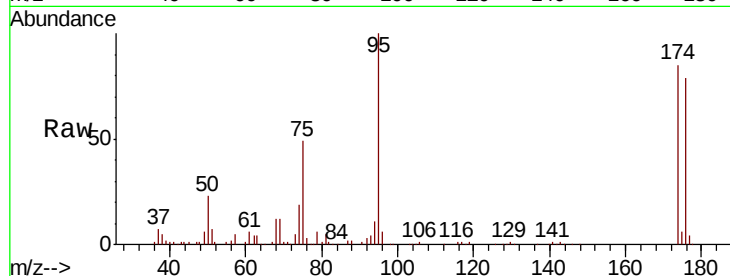
Tot Ion: 75 Resp: 100673

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

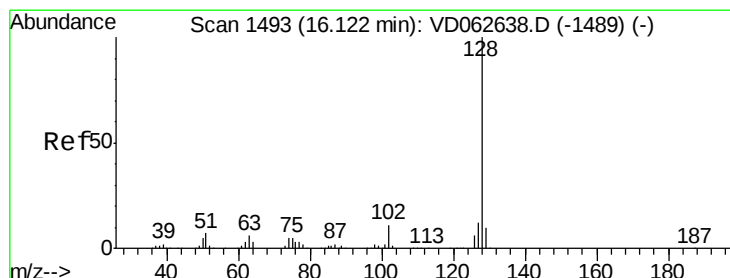
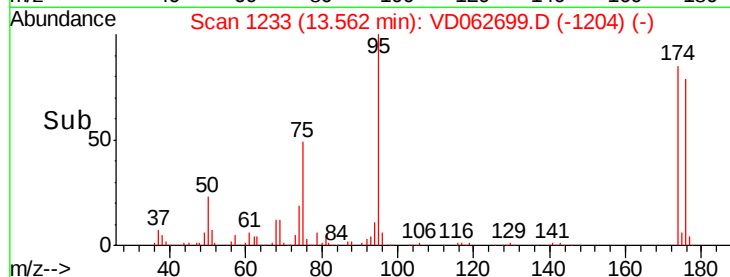
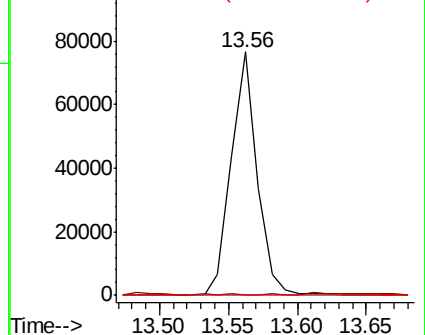
89 0.0 37.0 55.6#



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



#95

Naphthalene

Concen: 23.513 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD062699.D

Acq: 13 Jun 2019 17:49

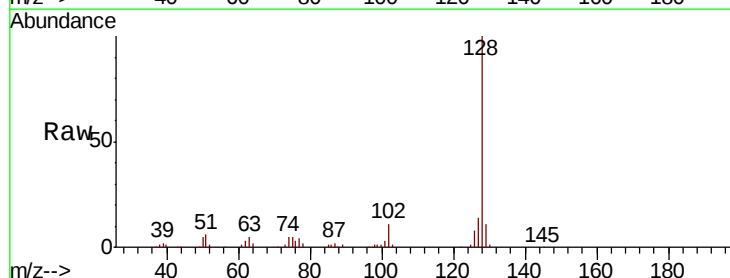
Tgt Ion:128 Resp: 203764

Ion Ratio Lower Upper

128 100

127 14.3 9.7 14.5

129 11.0 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

