

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040919\
 Data File : VD061690.D
 Acq On : 9 Apr 2019 22:20
 Operator : VA/AP
 Sample : K2316-07
 Misc : 5.10a/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 10 00:58:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.08	168	430819	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.25	114	712162	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.39	117	542596	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	144212	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.49	65	187262	57.34	ug/l	0.03
Spiked Amount	50.000		Recovery	=	114.68%	
35) Dibromofluoromethane	6.96	113	22734	4.61	ug/l	0.04
Spiked Amount	50.000		Recovery	=	9.22%	
50) Toluene-d8	10.44	98	650007	52.44	ug/l	0.03
Spiked Amount	50.000		Recovery	=	104.88%	
62) 4-Bromofluorobenzene	13.57	95	200117	44.97	ug/l	0.02
Spiked Amount	50.000		Recovery	=	89.94%	

Target Compounds

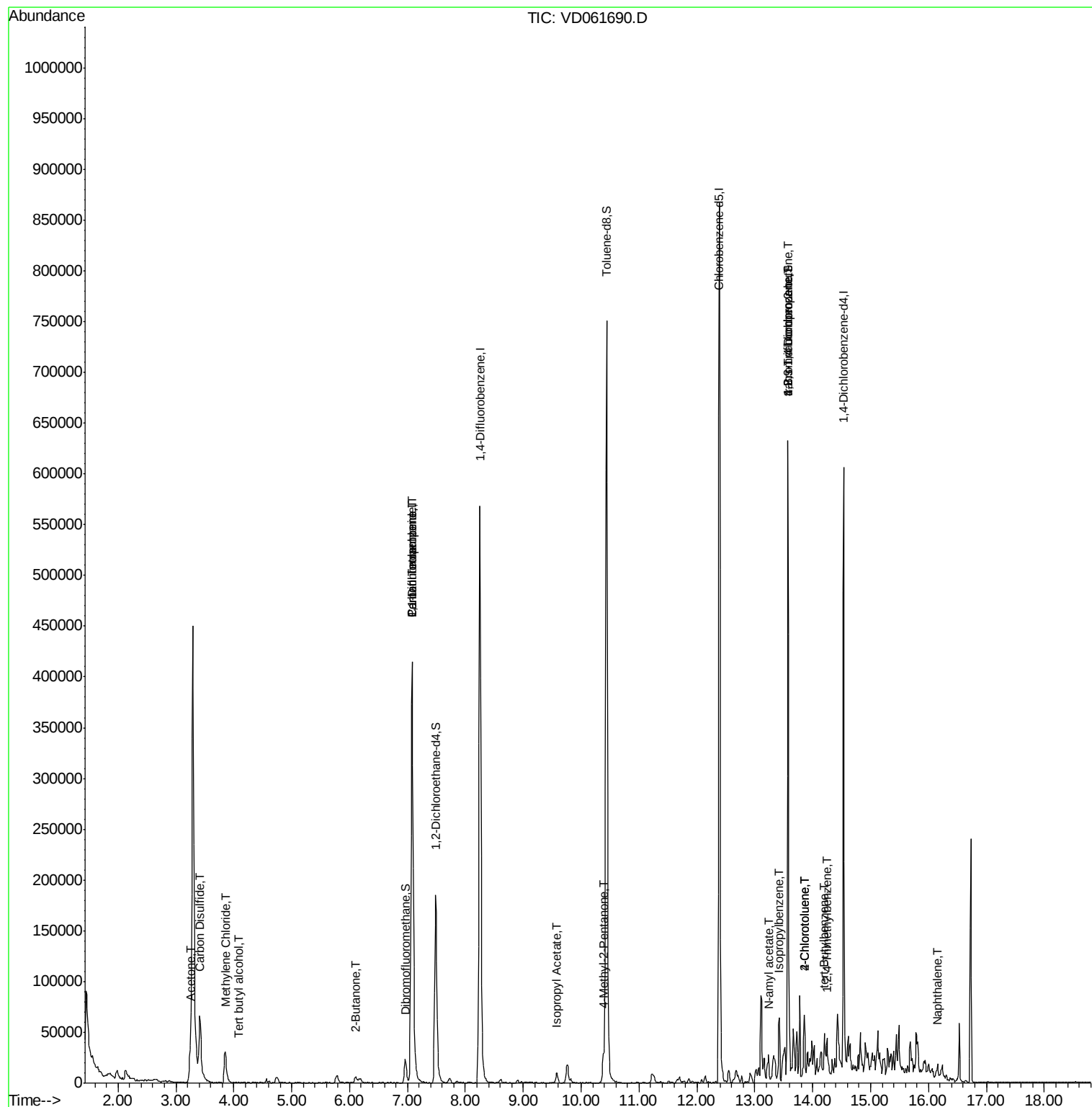
					Qvalue
11) Tert butyl alcohol	4.09	59	380	1.736	ug/l # 72
16) Acetone	3.24	43	67936	69.593	ug/l 100
17) Carbon Disulfide	3.41	76	110036	7.540	ug/l 98
20) Methylene Chloride	3.85	84	23372	4.219	ug/l 91
25) 2-Butanone	6.11	43	13489	11.986	ug/l 93
36) 1,1-Dichloropropene	7.07	75	30177	4.842	ug/l # 48
38) Carbon Tetrachloride	7.08	117	41792	5.721	ug/l # 16
43) Isopropyl Acetate	9.57	43	8631	2.343	ug/l # 43
51) 4-Methyl-2-Pentanone	10.38	43	5249	2.409	ug/l 98
73) Isopropylbenzene	13.42	105	39548	4.116	ug/l 94
74) N-amyl acetate	13.23	43	6525	2.499	ug/l # 64
76) 1,2,3-Trichloropropane	13.57	75	68132	34.726	ug/l # 46
79) 2-Chlorotoluene	13.85	91	25235	3.839	ug/l 95
81) trans-1,4-Dichloro-2-buten	13.57	75	70287	118.054	ug/l # 20
82) 4-Chlorotoluene	13.85	91	25235	3.504	ug/l 98
83) tert-Butylbenzene	14.20	119	13396	1.457	ug/l 97
84) 1,2,4-Trimethylbenzene	14.25	105	7980	1.037	ug/l 99
95) Naphthalene	16.14	128	5540	1.737	ug/l # 94

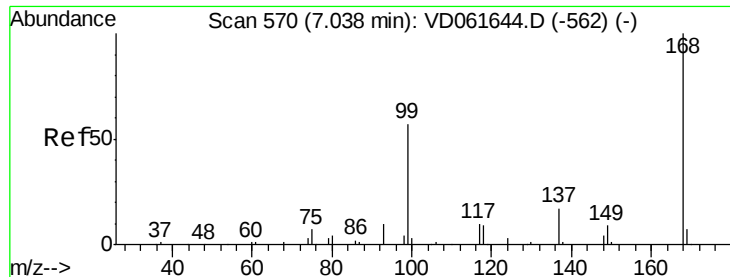
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040919\
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Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 575

Delta R.T. 0.04 min

Lab File: VD061690.D

Acq: 9 Apr 2019 22:20

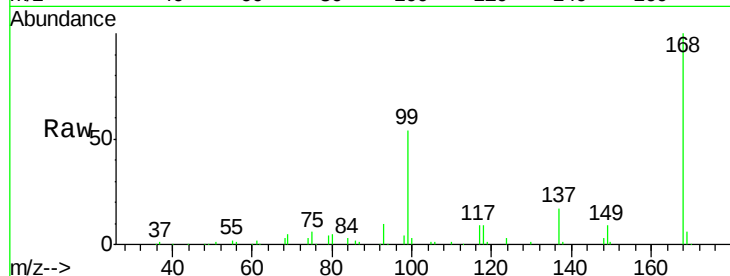
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 430819

Ion Ratio Lower Upper

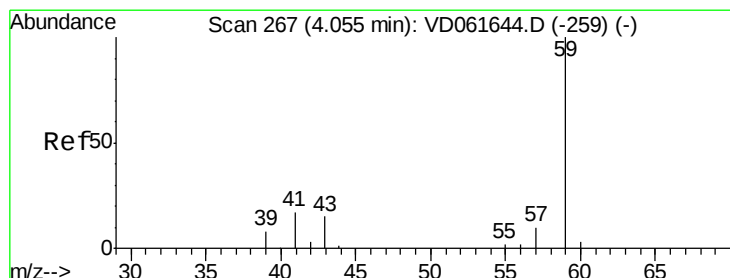
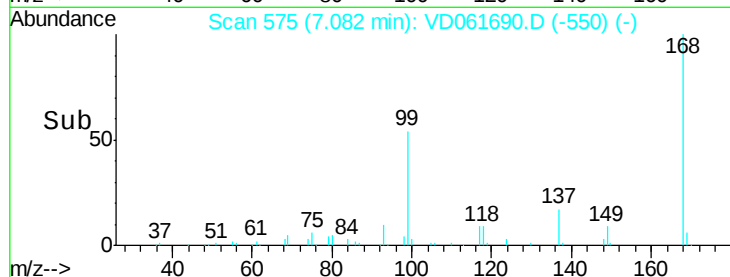
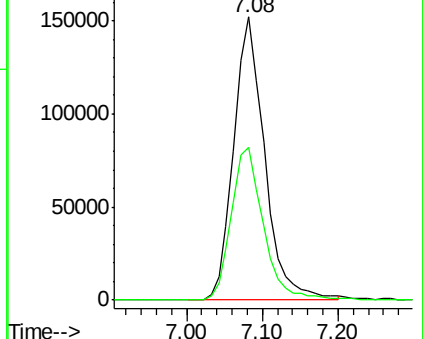
168 100

99 53.9 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.736 ug/l

RT: 4.09 min Scan# 271

Delta R.T. 0.03 min

Lab File: VD061690.D

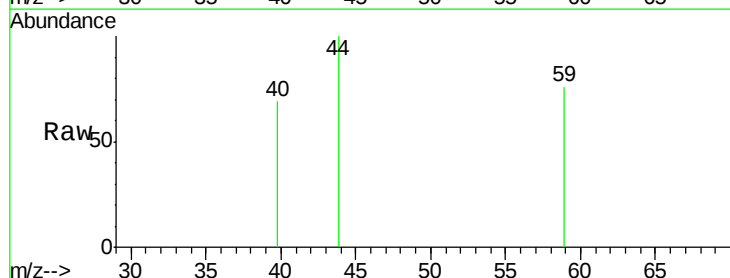
Acq: 9 Apr 2019 22:20

Tgt Ion: 59 Resp: 380

Ion Ratio Lower Upper

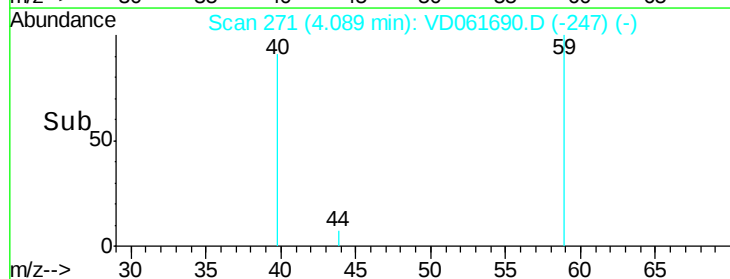
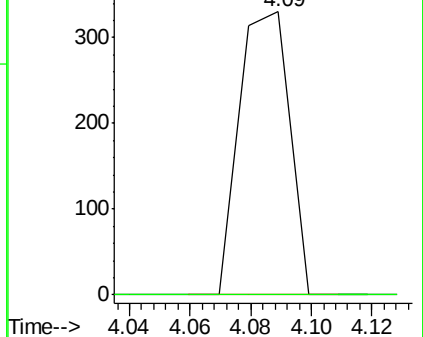
59 100

57 0.0 8.4 12.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

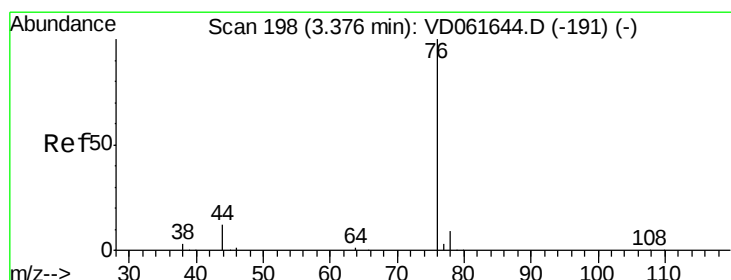
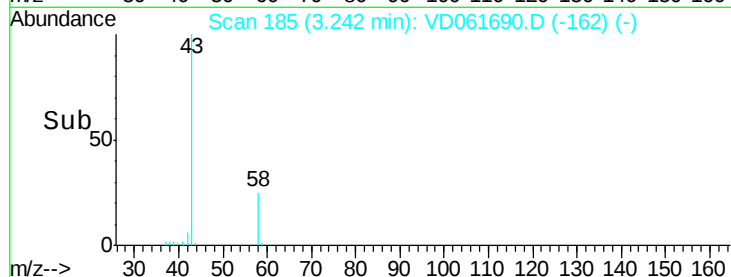
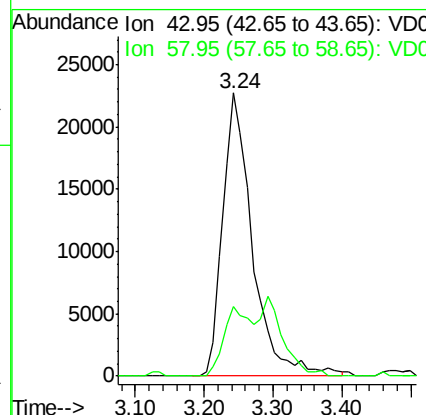
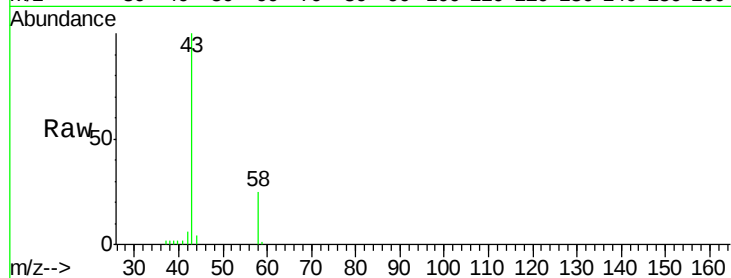




#16
Acetone
Concen: 69.593 ug/l
RT: 3.24 min Scan# 185
Delta R.T. 0.02 min
Lab File: VD061690.D
Acq: 9 Apr 2019 22:20

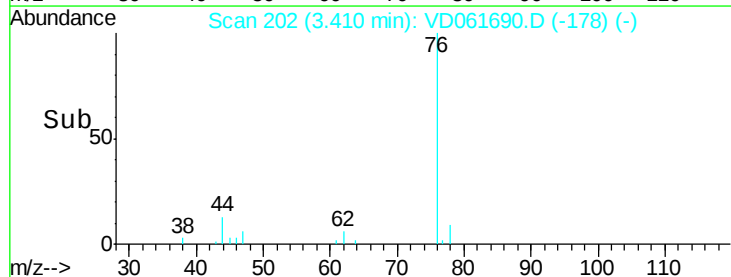
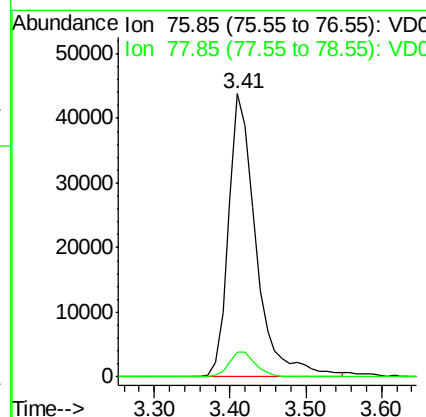
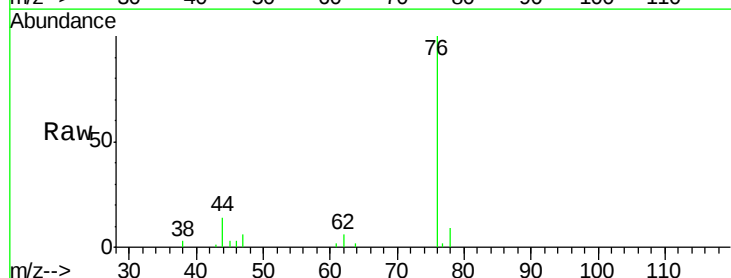
Instrument :
MSVOA_D
ClientSampled :

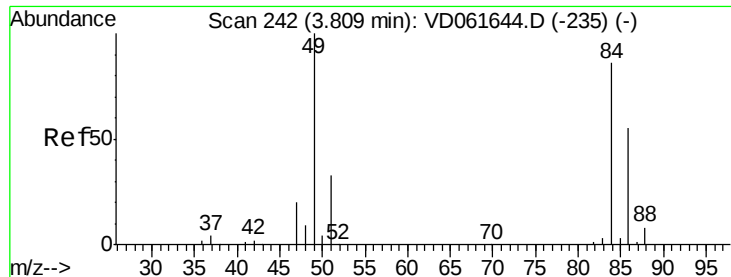
Tot Ion: 43 Resp: 67936
Ion Ratio Lower Upper
43 100
58 24.8 19.7 29.5



#17
Carbon Disulfide
Concen: 7.540 ug/l
RT: 3.41 min Scan# 202
Delta R.T. 0.03 min
Lab File: VD061690.D
Acq: 9 Apr 2019 22:20

Tgt Ion: 76 Resp: 110036
Ion Ratio Lower Upper
76 100
78 8.6 7.4 11.2

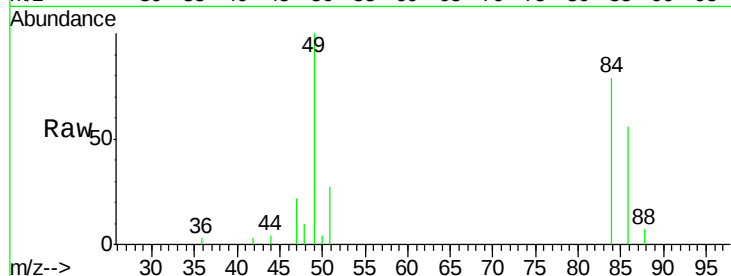




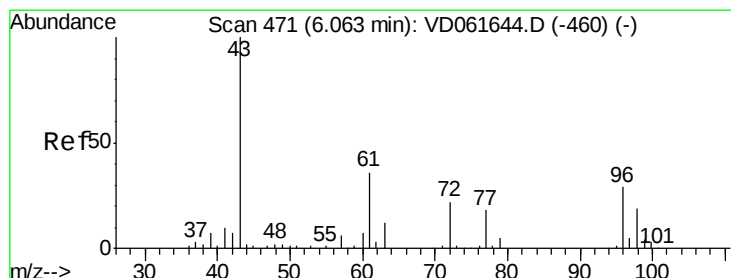
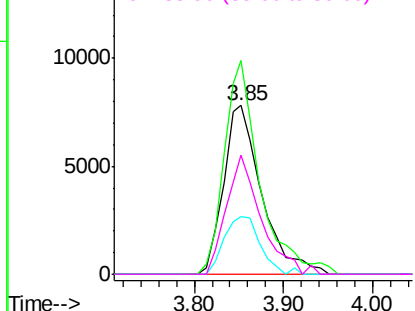
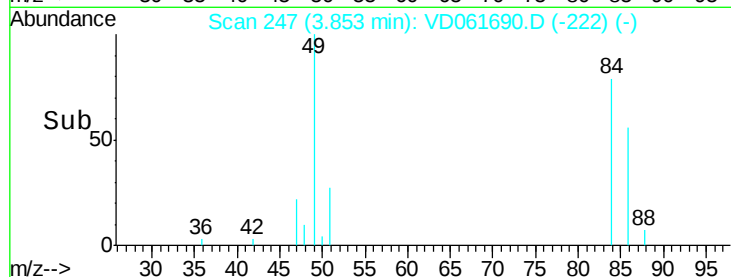
#20
Methvlene Chloride
Concen: 4.219 ug/l
RT: 3.85 min Scan# 247
Delta R.T. 0.04 min
Lab File: VD061690.D
Acq: 9 Apr 2019 22:20

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 84 Resp: 23372
Ion Ratio Lower Upper
84 100
49 126.4 93.0 139.4
51 34.0 30.4 45.6
86 70.7 51.0 76.4

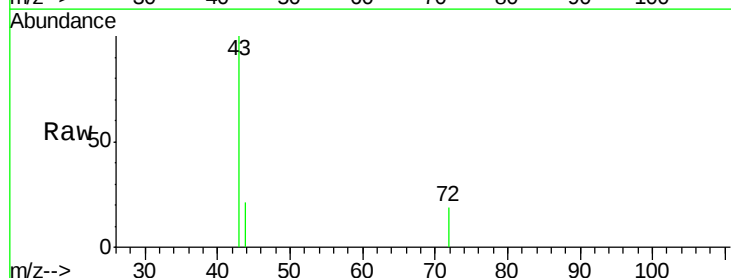


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

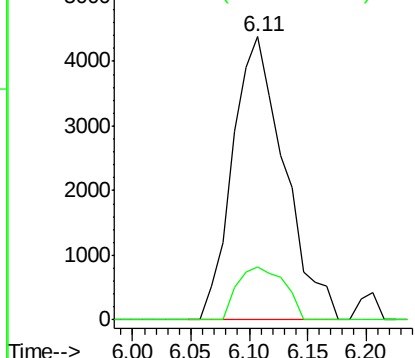
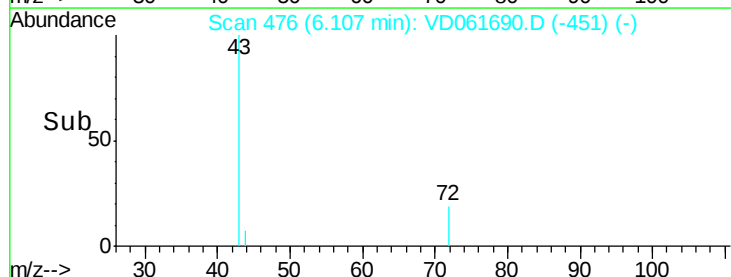


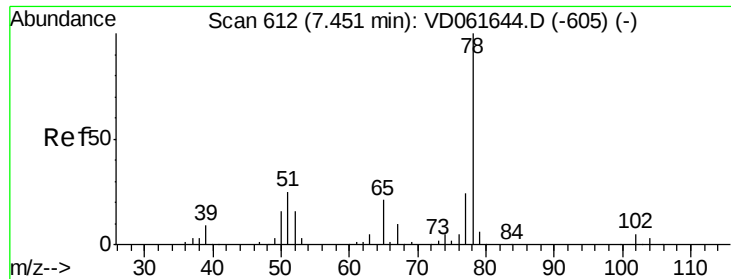
#25
2-Butanone
Concen: 11.986 ug/l
RT: 6.11 min Scan# 476
Delta R.T. 0.04 min
Lab File: VD061690.D
Acq: 9 Apr 2019 22:20

Tgt Ion: 43 Resp: 13489
Ion Ratio Lower Upper
43 100
72 18.5 17.4 26.2



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.49 min Scan# 616

Delta R.T. 0.03 min

Lab File: VD061690.D

Acq: 9 Apr 2019 22:20

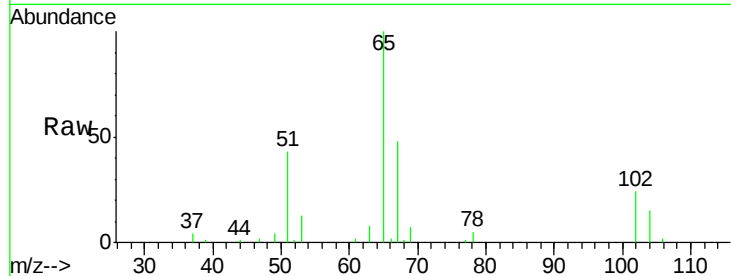
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 187262

Ion Ratio Lower Upper

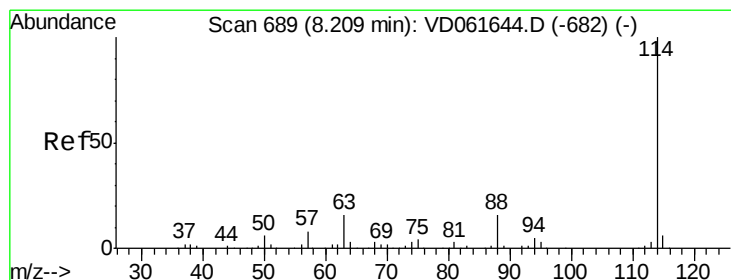
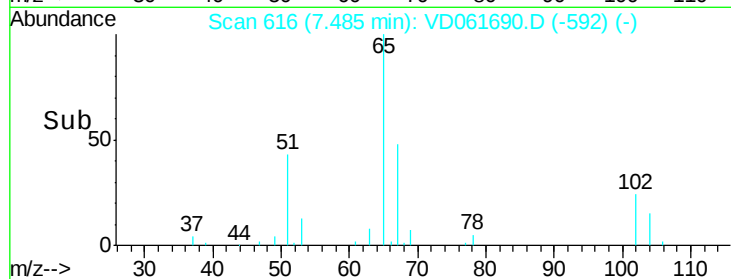
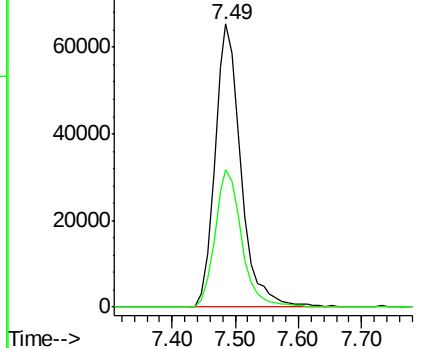
65 100

67 48.4 0.0 99.4



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: 8.25 min Scan# 694

Delta R.T. 0.04 min

Lab File: VD061690.D

Acq: 9 Apr 2019 22:20

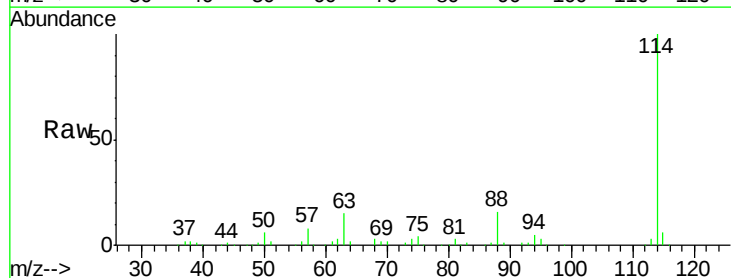
Tgt Ion: 114 Resp: 712162

Ion Ratio Lower Upper

114 100

63 14.9 0.0 31.2

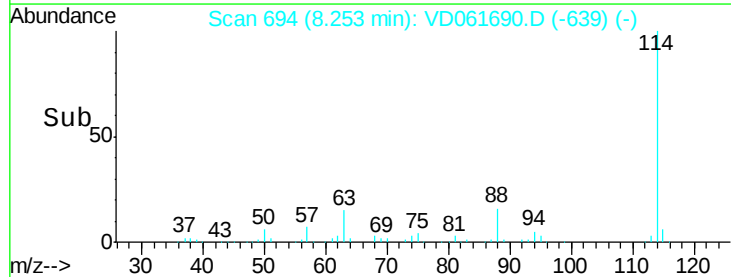
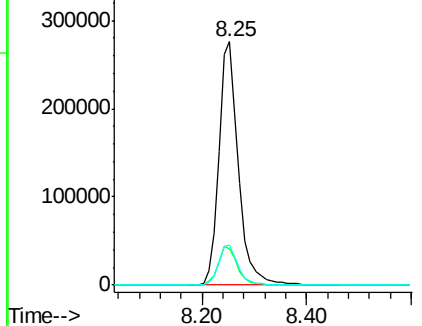
88 16.3 0.0 31.8

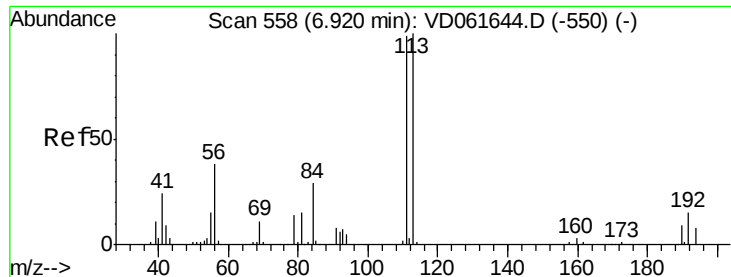


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

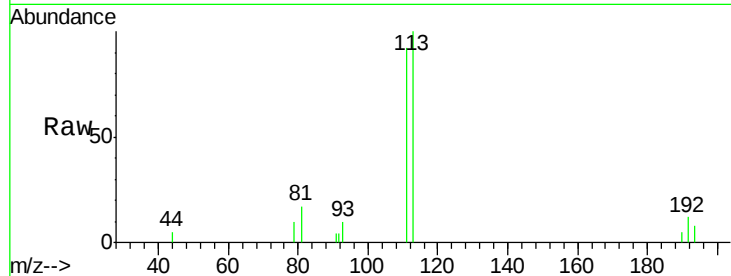




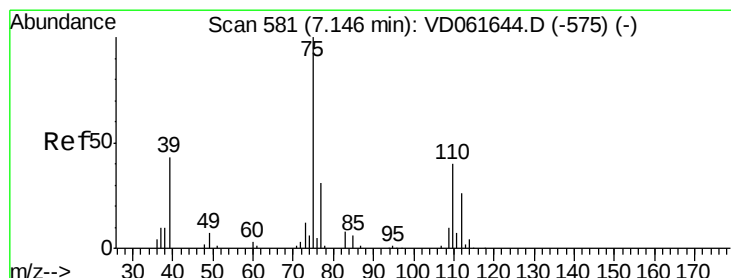
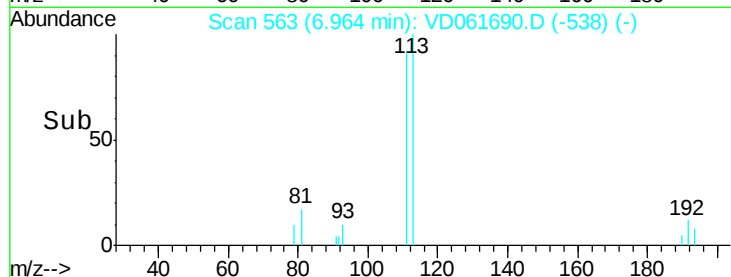
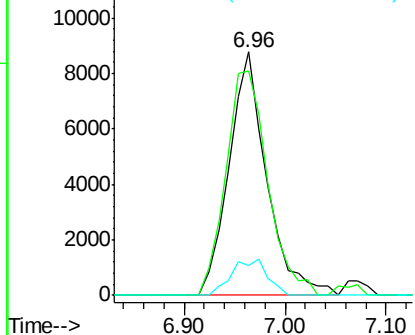
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.96 min Scan# 563
 Delta R.T. 0.04 min
 Lab File: VD061690.D
 Acq: 9 Apr 2019 22:20

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 22734
 Ion Ratio Lower Upper
 113 100
 111 92.1 79.3 118.9
 192 12.0 12.3 18.5#

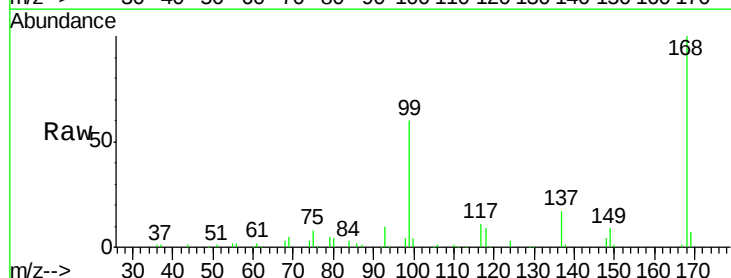


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

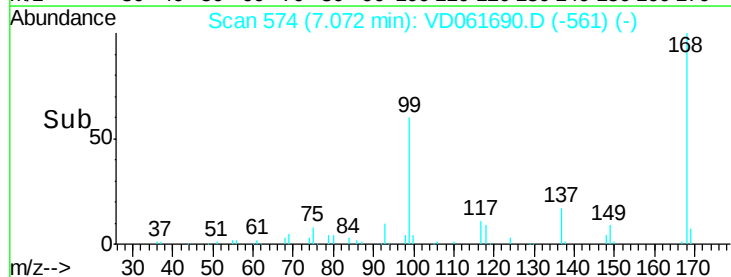
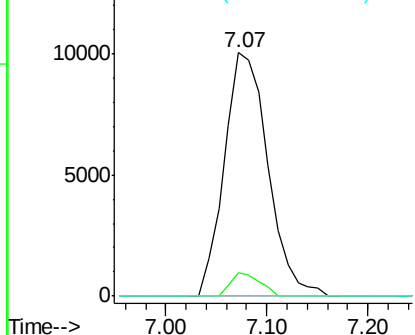


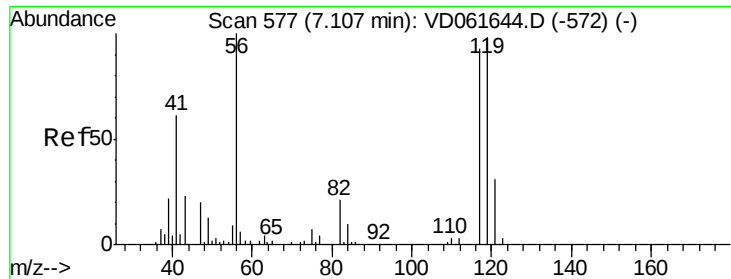
#36
 1,1-Dichloropropene
 Concen: 4.842 ug/l
 RT: 7.07 min Scan# 574
 Delta R.T. -0.07 min
 Lab File: VD061690.D
 Acq: 9 Apr 2019 22:20

Tgt Ion: 75 Resp: 30177
 Ion Ratio Lower Upper
 75 100
 110 9.4 19.7 59.0#
 77 0.0 24.8 37.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): VDC

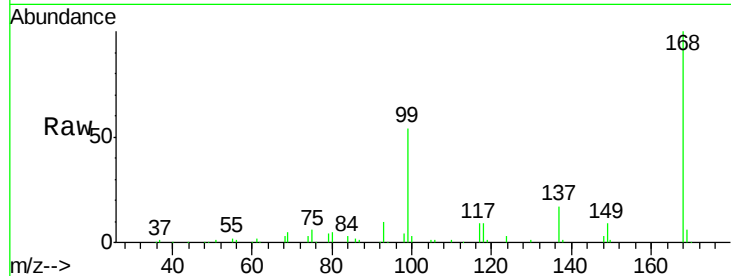




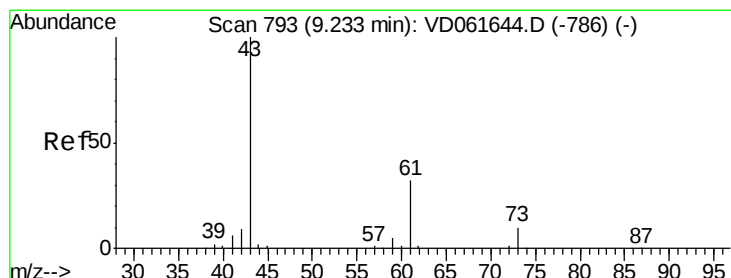
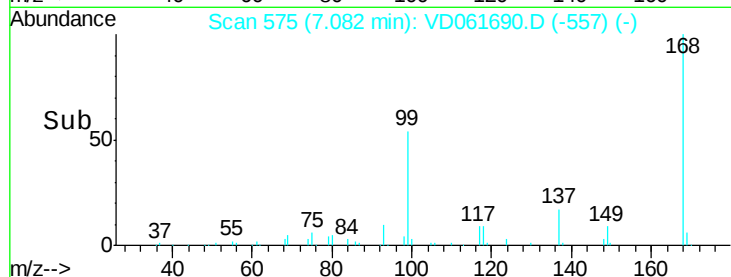
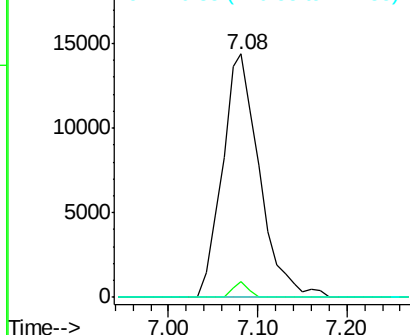
#38
Carbon Tetrachloride
Concen: 5.721 ug/l
RT: 7.08 min Scan# 575
Delta R.T. -0.02 min
Lab File: VD061690.D
Acq: 9 Apr 2019 22:20

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 41792
Ion Ratio Lower Upper
117 100
119 6.5 77.9 116.9#
121 0.0 24.7 37.1#

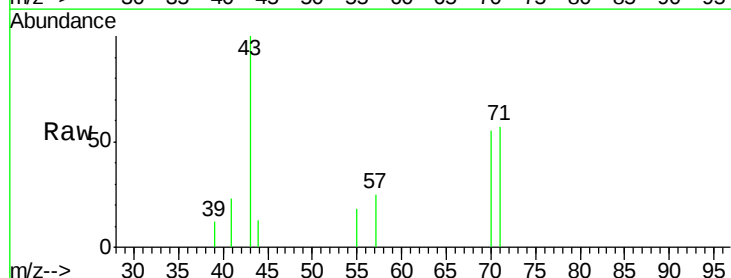


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

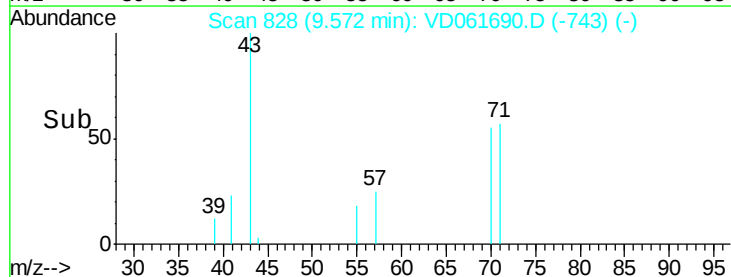
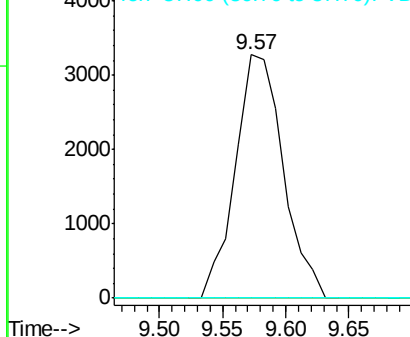


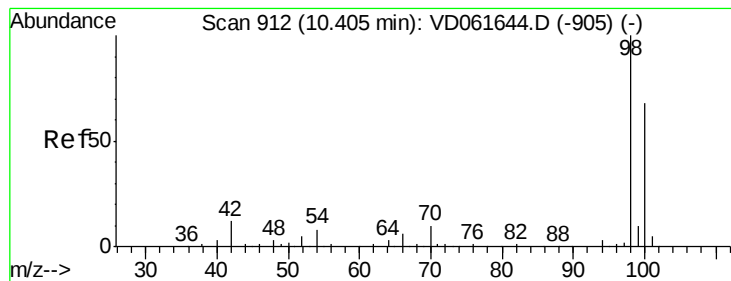
#43
Isopropyl Acetate
Concen: 2.343 ug/l
RT: 9.57 min Scan# 828
Delta R.T. 0.34 min
Lab File: VD061690.D
Acq: 9 Apr 2019 22:20

Tgt Ion: 43 Resp: 8631
Ion Ratio Lower Upper
43 100
61 0.0 25.9 38.9#
87 0.0 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.44 min Scan# 916

Delta R.T. 0.03 min

Lab File: VD061690.D

Acq: 9 Apr 2019 22:20

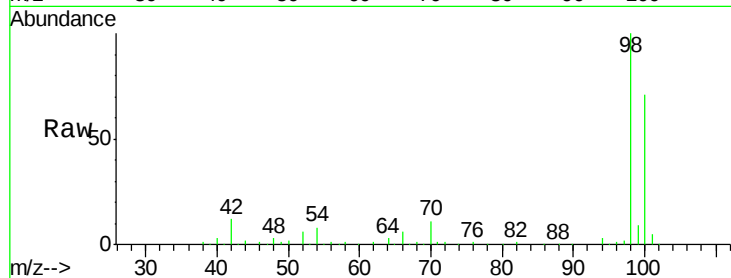
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 650007

Ion Ratio Lower Upper

98 100

100 70.8 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VD061690.D (-892) (-)

Ion 100.05 (99.75 to 100.75): VD061690.D (-892) (-)

10.44

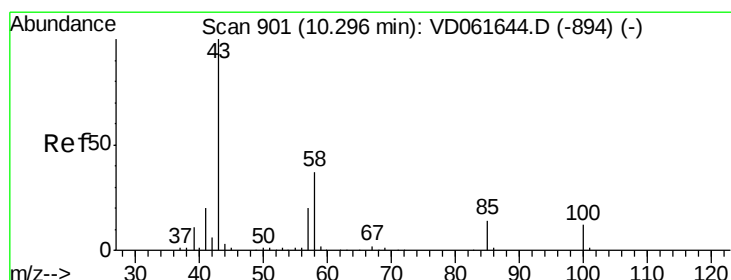
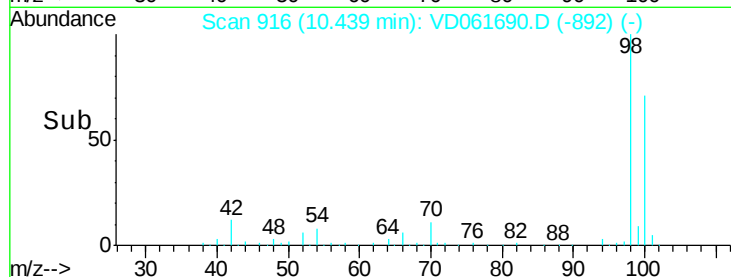
300000

200000

100000

0

Time--> 10.30 10.40 10.50 10.60



#51

4-Methyl-2-Pentanone

Concen: 2.409 ug/l

RT: 10.38 min Scan# 910

Delta R.T. 0.08 min

Lab File: VD061690.D

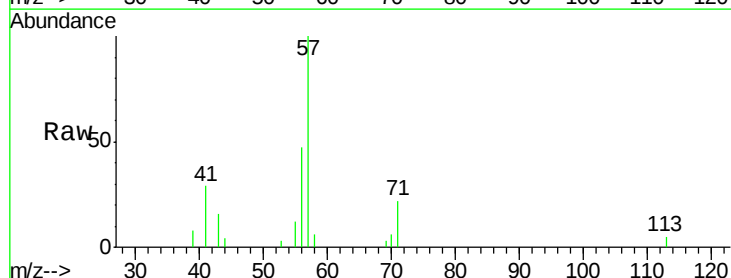
Acq: 9 Apr 2019 22:20

Tgt Ion: 43 Resp: 5249

Ion Ratio Lower Upper

43 100

58 36.2 29.8 44.8



Abundance Ion 42.95 (42.65 to 43.65): VD061690.D (-881) (-)

Ion 57.95 (57.65 to 58.65): VD061690.D (-881) (-)

10.38

2500

2000

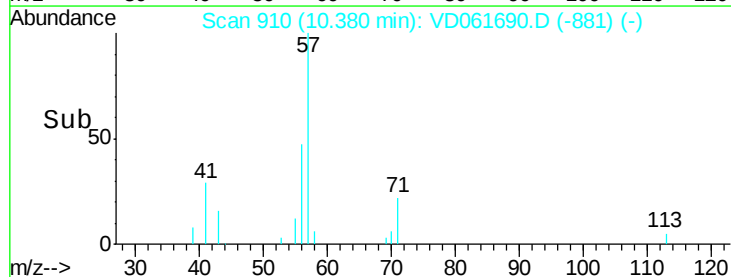
1500

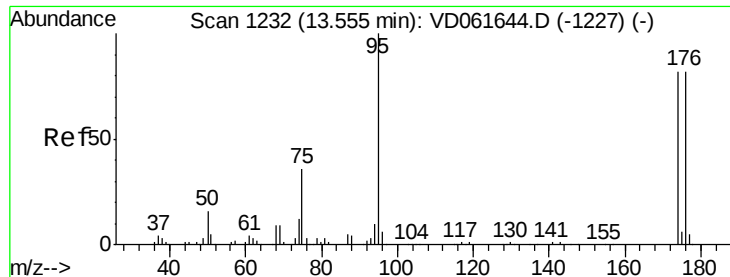
1000

500

0

Time--> 10.35 10.40

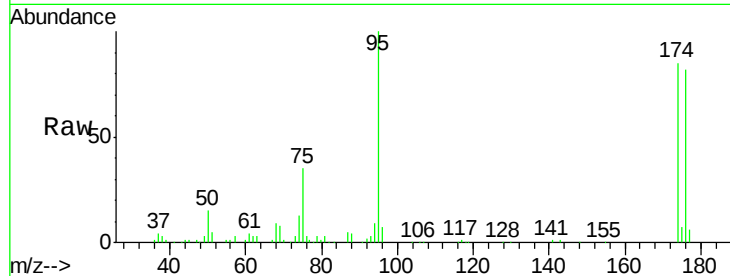




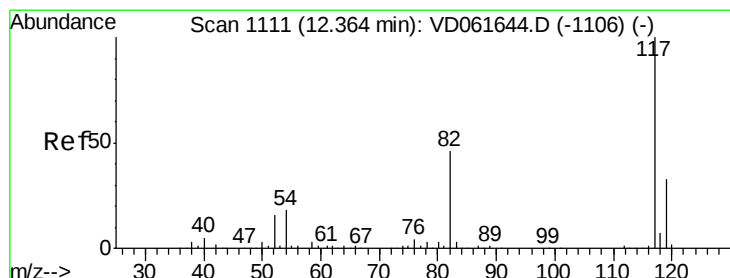
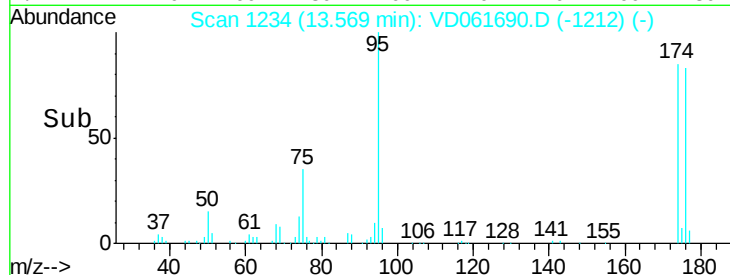
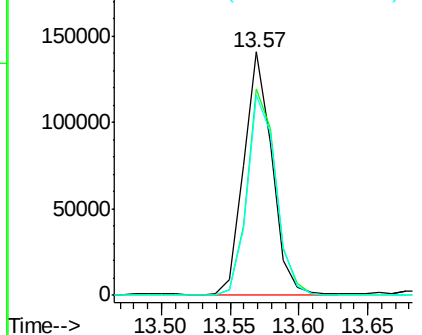
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.57 min Scan# 1234
Delta R.T. 0.02 min
Lab File: VD061690.D
Acq: 9 Apr 2019 22:20

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 200117
Ion Ratio Lower Upper
95 100
174 84.7 0.0 164.6
176 82.4 0.0 165.0

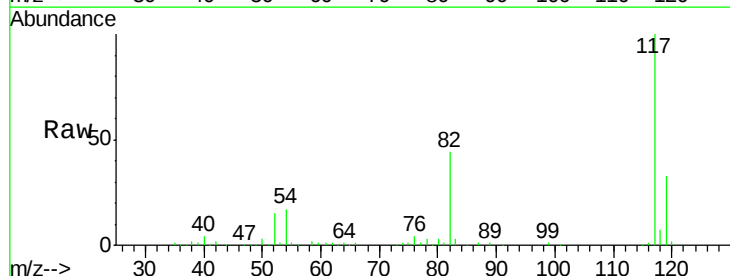


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

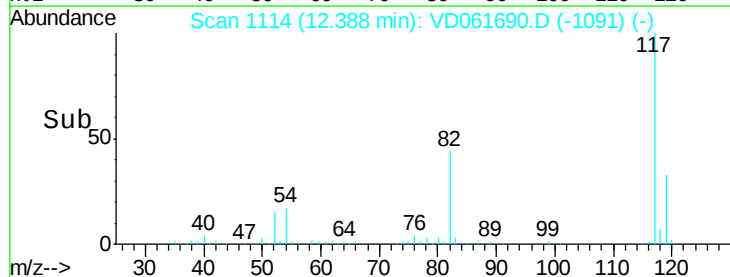
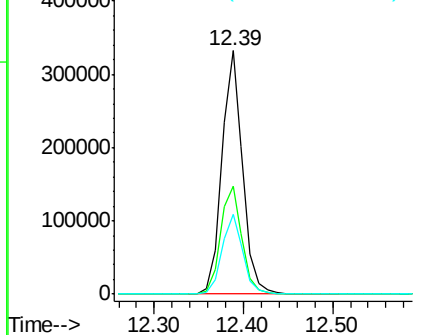


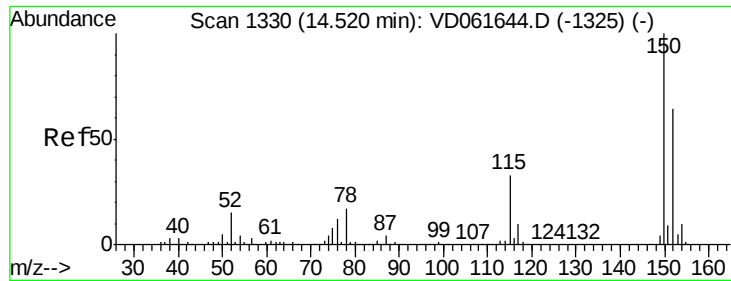
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.02 min
Lab File: VD061690.D
Acq: 9 Apr 2019 22:20

Tgt Ion: 117 Resp: 542596
Ion Ratio Lower Upper
117 100
82 44.1 36.8 55.2
119 32.7 26.1 39.1



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# 1332

Delta R.T. 0.01 min

Lab File: VD061690.D

Acq: 9 Apr 2019 22:20

Instrument :

MSVOA_D

ClientSampleId :

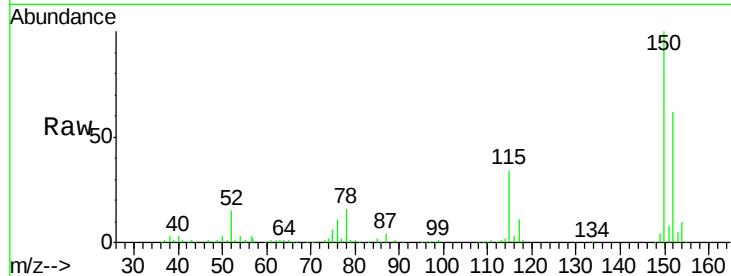
Tot Ion:152 Resp: 144212

Ion Ratio Lower Upper

152 100

115 55.0 26.4 79.2

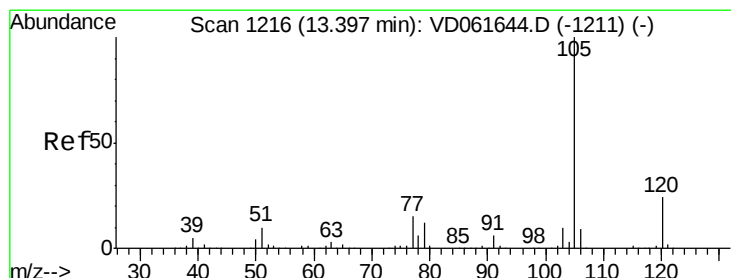
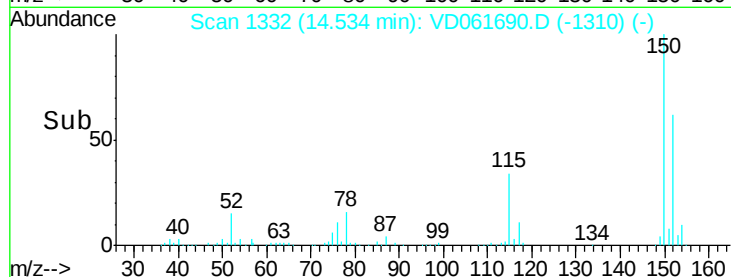
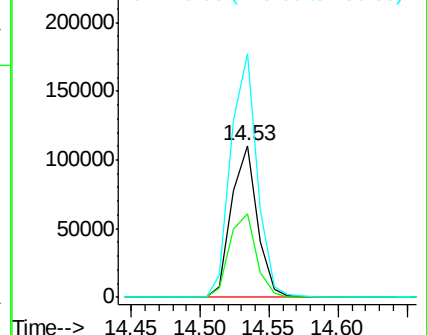
150 160.7 0.0 320.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 4.116 ug/l

RT: 13.42 min Scan# 1219

Delta R.T. 0.02 min

Lab File: VD061690.D

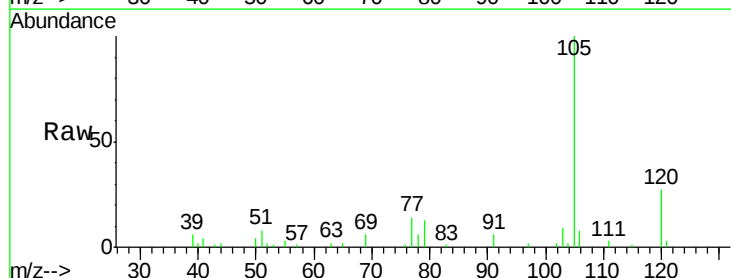
Acq: 9 Apr 2019 22:20

Tgt Ion:105 Resp: 39548

Ion Ratio Lower Upper

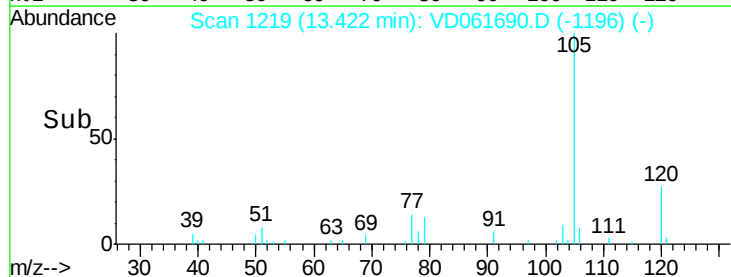
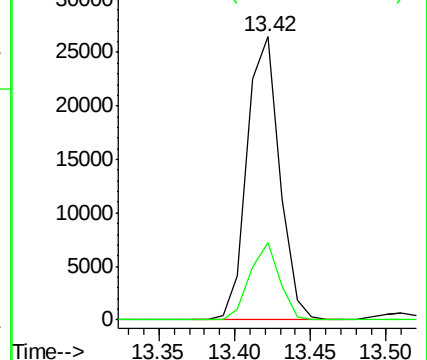
105 100

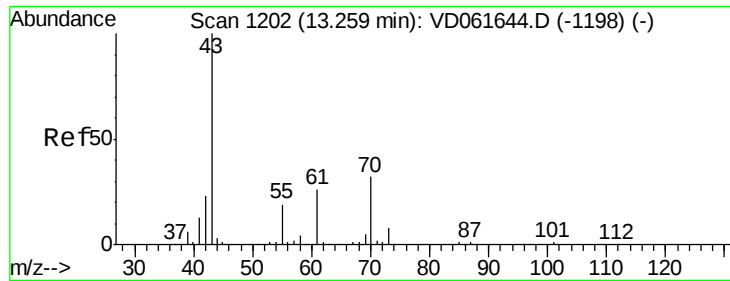
120 27.1 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-amyl acetate

Concen: 2.499 ug/l

RT: 13.23 min Scan# 1200

Delta R.T. -0.02 min

Lab File: VD061690.D

Acq: 9 Apr 2019 22:20

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 6525

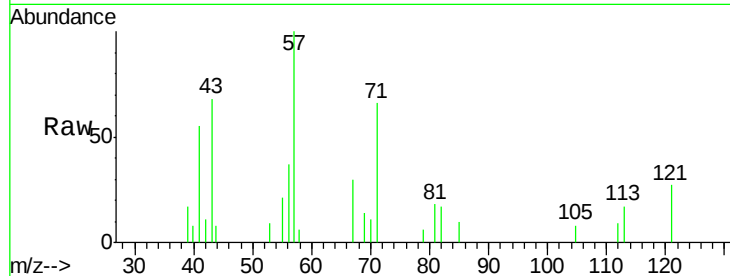
Ion Ratio Lower Upper

43 100

70 16.4 25.4 38.2#

55 31.1 15.0 22.4#

61 0.0 20.9 31.3#

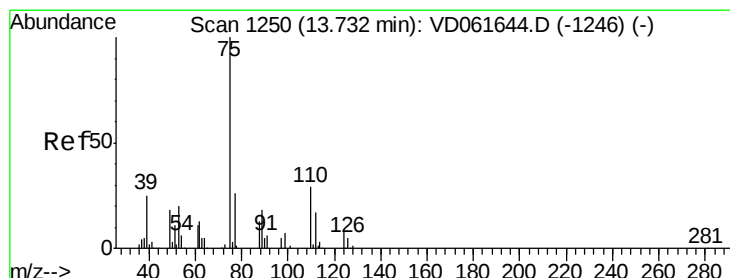
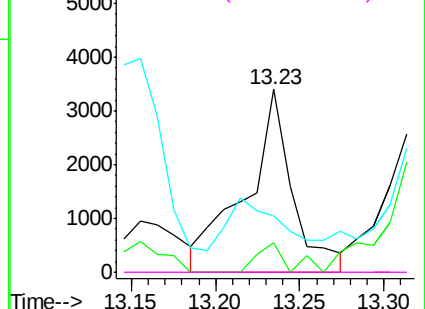
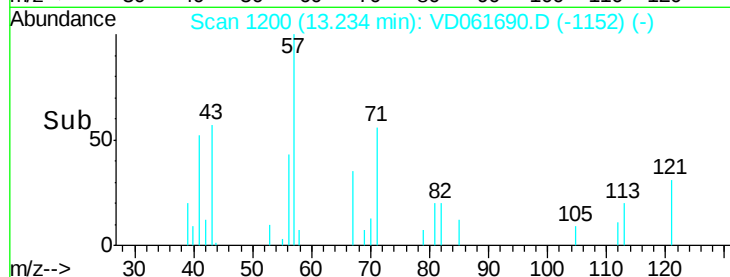


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#76

1,2,3-Trichloropropane

Concen: 34.726 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. -0.16 min

Lab File: VD061690.D

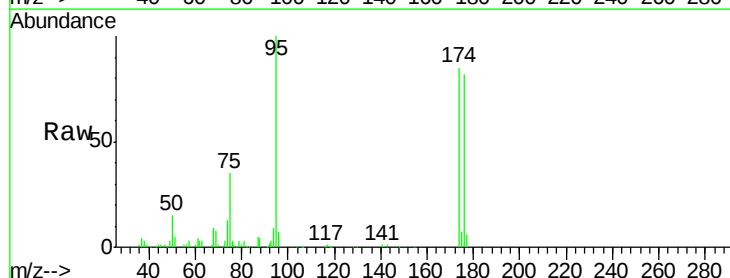
Acq: 9 Apr 2019 22:20

Tgt Ion: 75 Resp: 68132

Ion Ratio Lower Upper

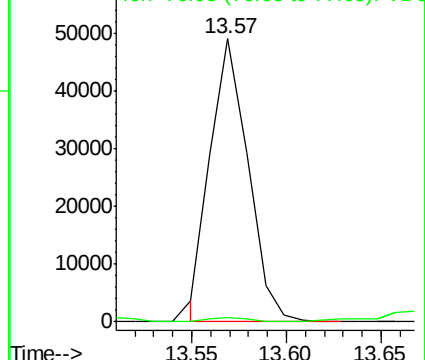
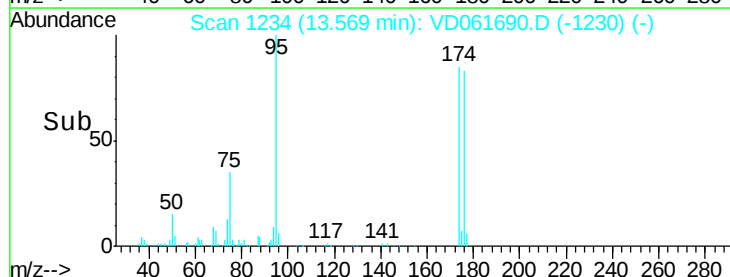
75 100

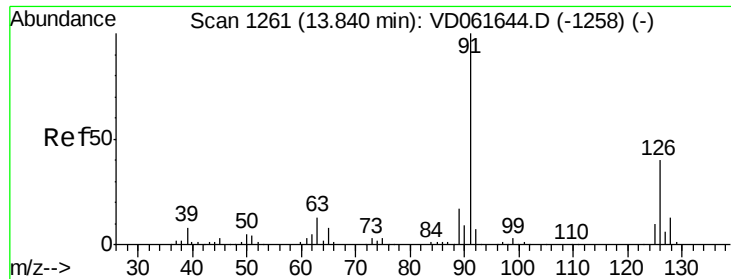
77 1.6 15.7 47.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#79

2-Chlorotoluene

Concen: 3.839 ug/l

RT: 13.85 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VD061690.D

Acq: 9 Apr 2019 22:20

Instrument :

MSVOA_D

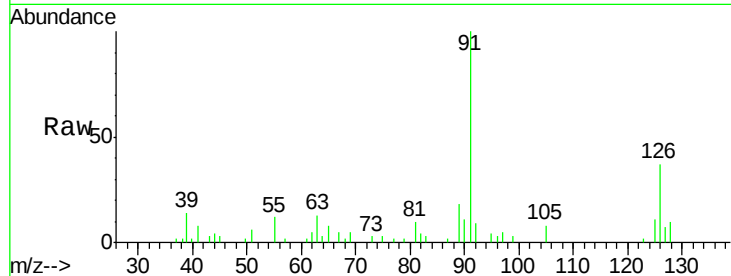
ClientSampleId :

Tot Ion: 91 Resp: 25235

Ion Ratio Lower Upper

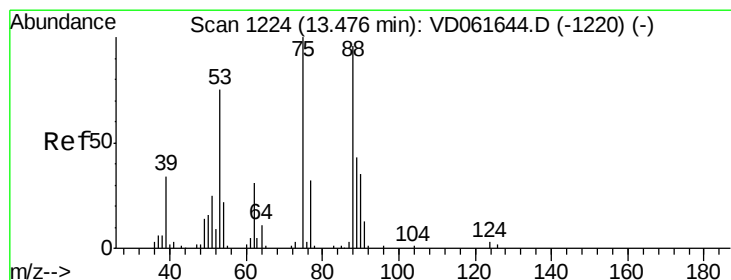
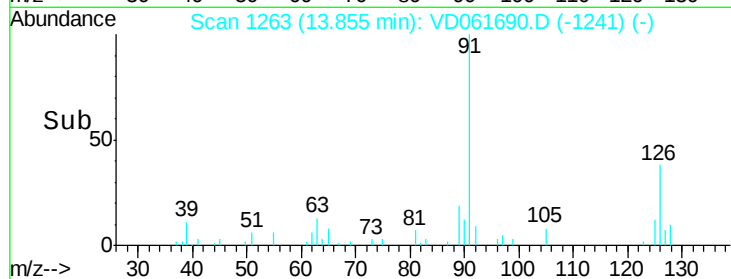
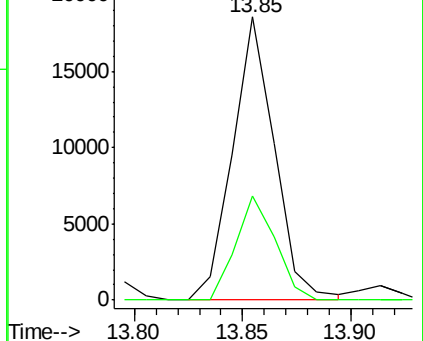
91 100

126 37.0 20.0 59.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 118.054 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.09 min

Lab File: VD061690.D

Acq: 9 Apr 2019 22:20

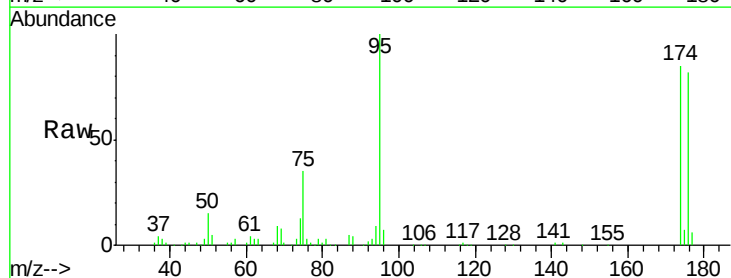
Tgt Ion: 75 Resp: 70287

Ion Ratio Lower Upper

75 100

53 0.0 60.2 90.2#

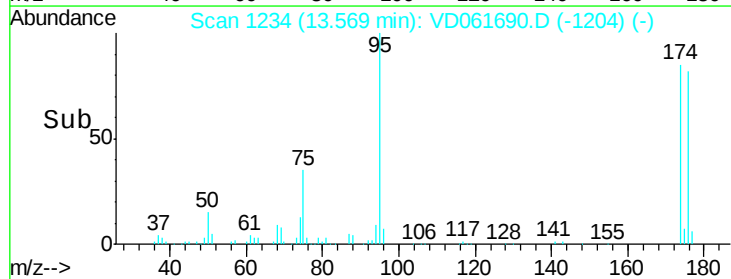
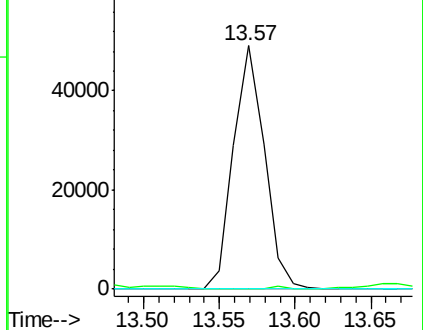
89 0.0 34.2 51.2#

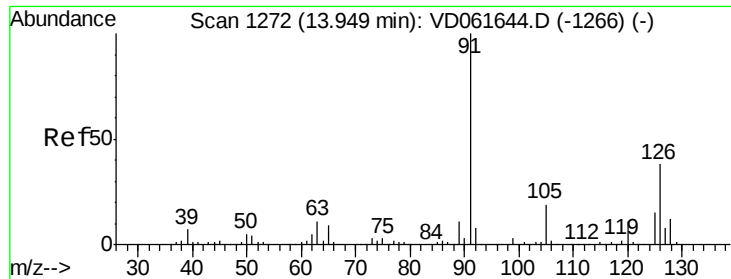


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

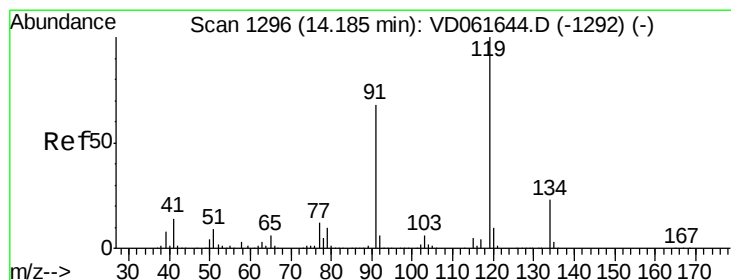
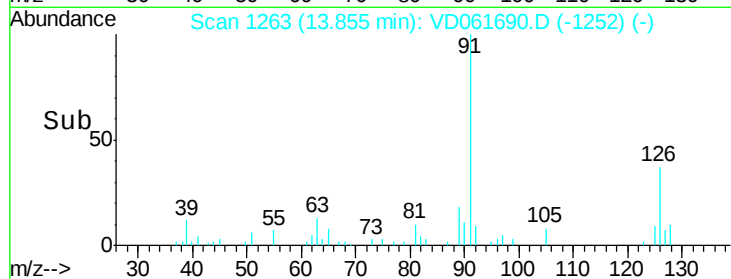
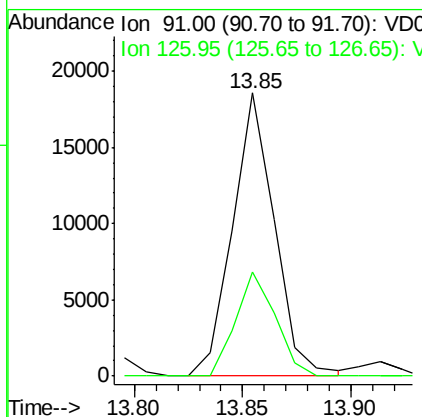
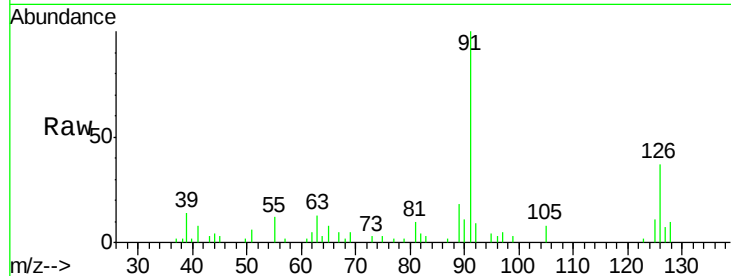




#82
4-Chlorotoluene
Concen: 3.504 ug/l
RT: 13.85 min Scan# 1263
Delta R.T. -0.09 min
Lab File: VD061690.D
Acq: 9 Apr 2019 22:20

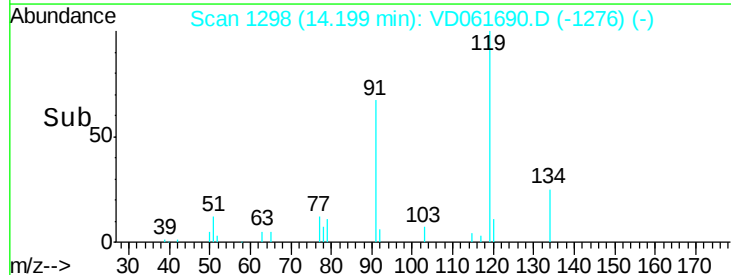
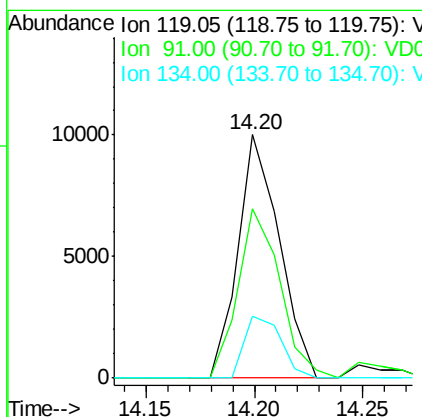
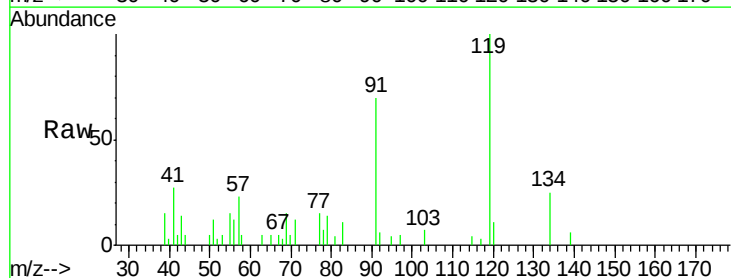
Instrument :
MSVOA_D
ClientSampleId :

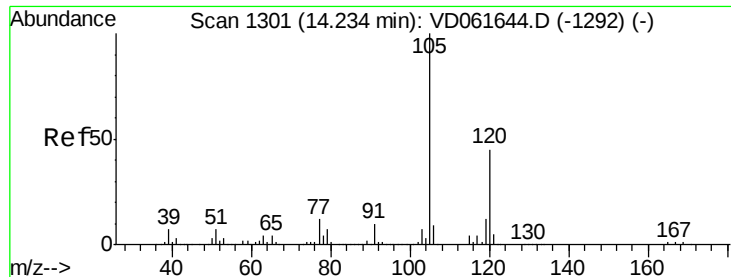
Tot Ion: 91 Resp: 25235
Ion Ratio Lower Upper
91 100
126 37.0 19.0 57.0



#83
tert-Butylbenzene
Concen: 1.457 ug/l
RT: 14.20 min Scan# 1298
Delta R.T. 0.01 min
Lab File: VD061690.D
Acq: 9 Apr 2019 22:20

Tgt Ion: 119 Resp: 13396
Ion Ratio Lower Upper
119 100
91 69.8 33.9 101.6
134 25.3 11.6 34.8

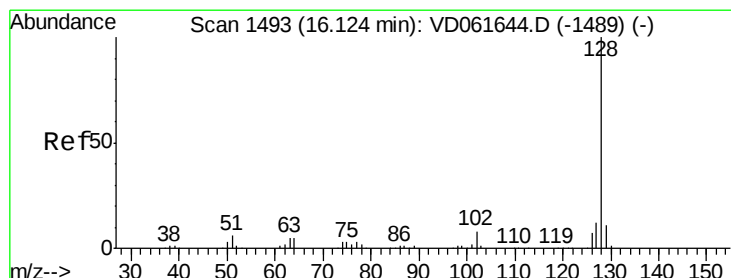
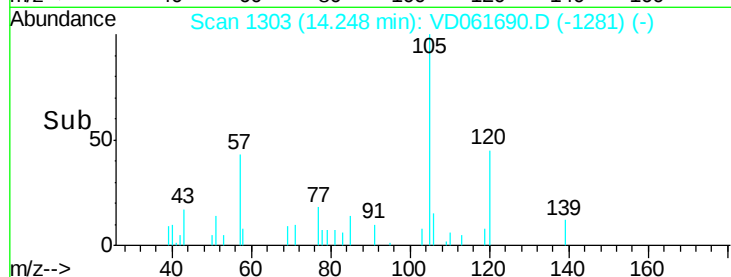
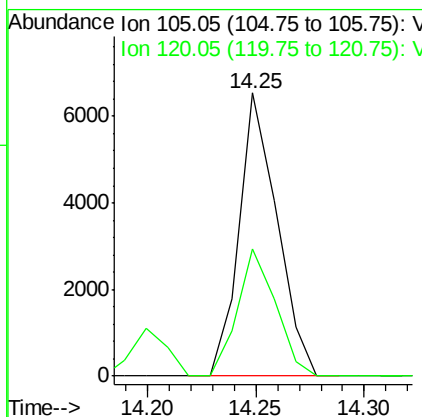
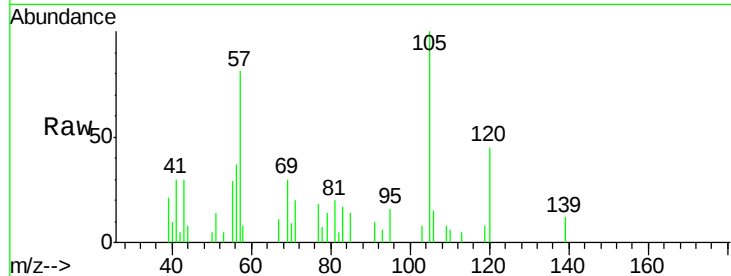




#84
 1,2,4-Trimethylbenzene
 Concen: 1.037 ug/l
 RT: 14.25 min Scan# 1303
 Delta R.T. 0.01 min
 Lab File: VD061690.D
 Acq: 9 Apr 2019 22:20

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:105 Resp: 7980
 Ion Ratio Lower Upper
 105 100
 120 44.8 22.6 67.8



#95
 Naphthalene
 Concen: 1.737 ug/l
 RT: 16.14 min Scan# 1495
 Delta R.T. 0.01 min
 Lab File: VD061690.D
 Acq: 9 Apr 2019 22:20

Tgt Ion:128 Resp: 5540
 Ion Ratio Lower Upper
 128 100
 127 13.9 9.4 14.2
 129 13.4 8.8 13.2#

