

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061818\
 Data File : VD058183.D
 Acq On : 18 Jun 2018 16:11
 Operator : VA/AP
 Sample : J3524-01RE
 Misc : 3.53q/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

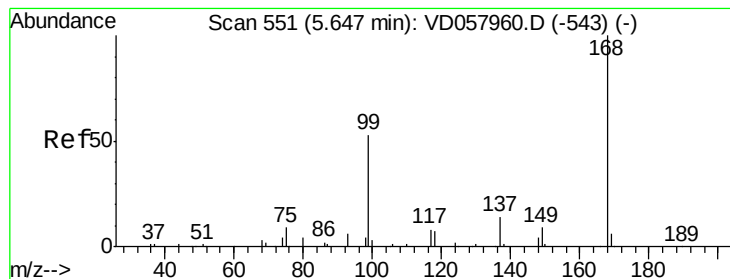
Quant Time: Jun 19 05:49:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	520169	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.68	114	694276	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.69	117	528738	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	228012	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	329814	63.42	ug/l	0.00
Spiked Amount						
			Recovery	=	126.84%	
35) Dibromofluoromethane	5.54	113	239331	44.55	ug/l	-0.02
Spiked Amount						
			Recovery	=	89.10%	
50) Toluene-d8	8.70	98	616430	48.27	ug/l	0.00
Spiked Amount						
			Recovery	=	96.54%	
62) 4-Bromofluorobenzene	11.93	95	241194	43.29	ug/l	0.00
Spiked Amount						
			Recovery	=	86.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.25	59	738	5.297	ug/l #	74
16) Acetone	2.60	43	98432	131.376	ug/l	99
20) Methylene Chloride	3.06	84	17277	1.890	ug/l	96
25) 2-Butanone	4.83	43	15154	8.900	ug/l #	91
29) Tetrahydrofuran	5.19	42	1783	1.998	ug/l #	87
31) Cyclohexane	5.63	56	12762	1.411	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	41612	5.440	ug/l #	48
37) Ethyl Acetate	4.83	43	15154	3.631	ug/l #	72
38) Carbon Tetrachloride	5.64	117	42512	5.639	ug/l #	16
41) Methacrylonitrile	5.19	41	2097	1.099	ug/l #	63
68) m/p-Xylenes	11.01	106	6426	1.019	ug/l	85
80) 1,3,5-Trimethylbenzene	12.31	105	12007	1.019	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.93	75	111175	131.050	ug/l #	6
82) 4-Chlorotoluene	12.32	91	2359	Below Cal	#	50
84) 1,2,4-Trimethylbenzene	12.62	105	28772	2.272	ug/l	94
89) n-Butylbenzene	13.19	91	4921	Below Cal	#	59
95) Naphthalene	14.52	128	189756	25.778	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

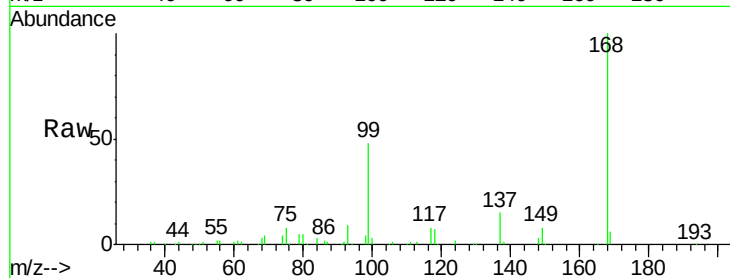
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 520169

Ion Ratio Lower Upper

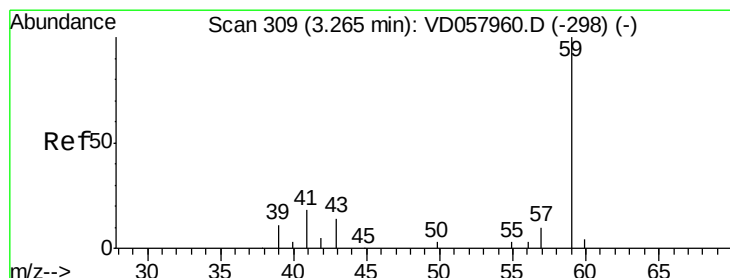
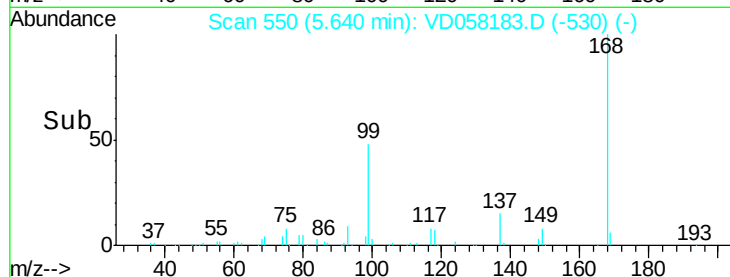
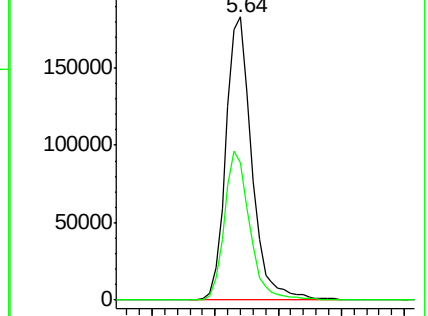
168 100

99 48.4 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: 5.297 ug/l

RT: 3.25 min Scan# 307

Delta R.T. -0.02 min

Lab File: VD058183.D

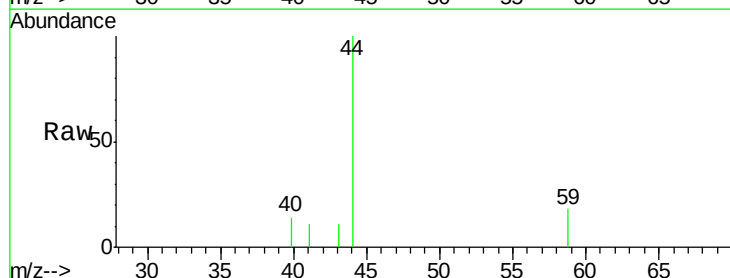
Acq: 18 Jun 2018 16:11

Tgt Ion: 59 Resp: 738

Ion Ratio Lower Upper

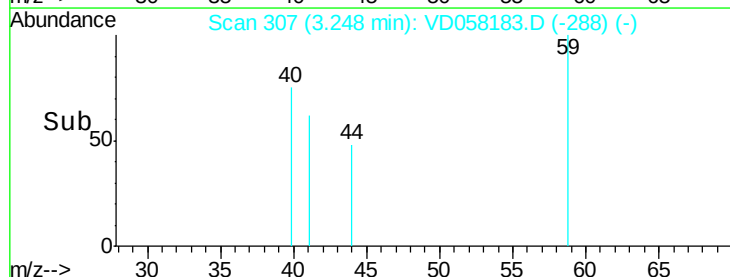
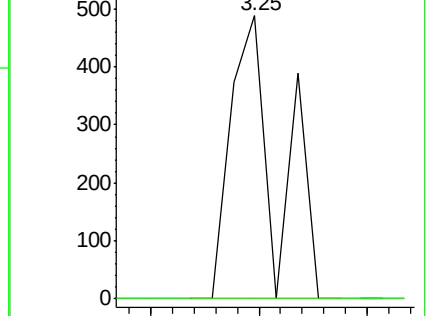
59 100

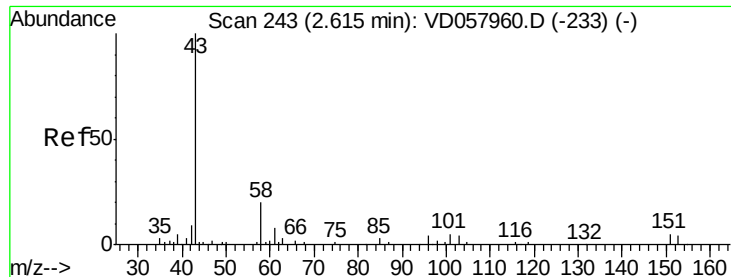
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

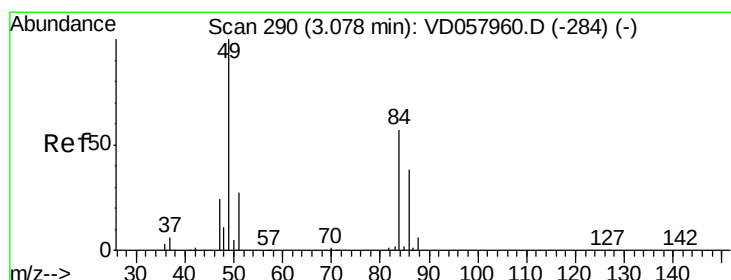
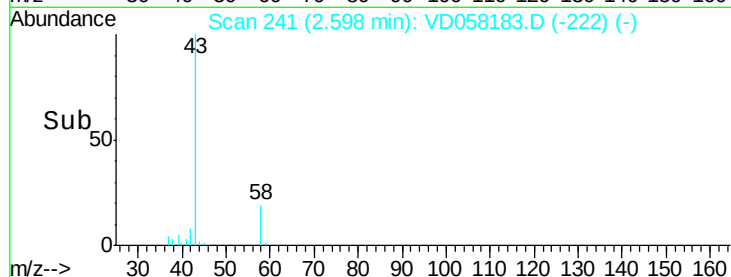
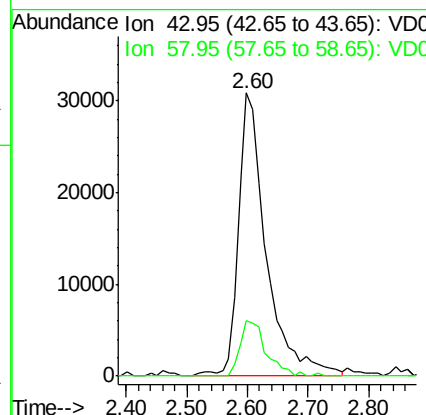
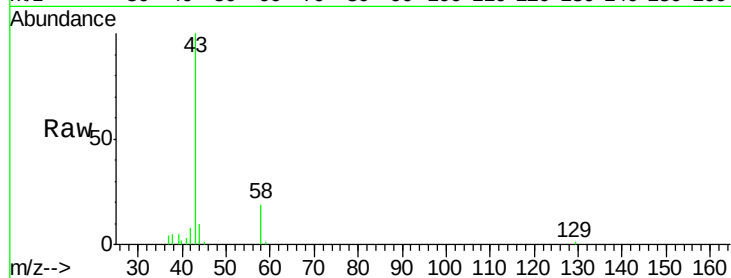




#16
Acetone
Concen: 131.376 ug/l
RT: 2.60 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD058183.D
Acq: 18 Jun 2018 16:11

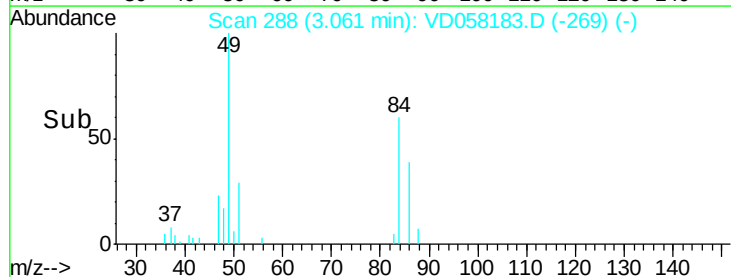
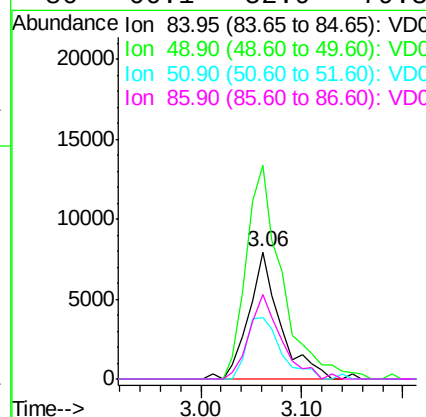
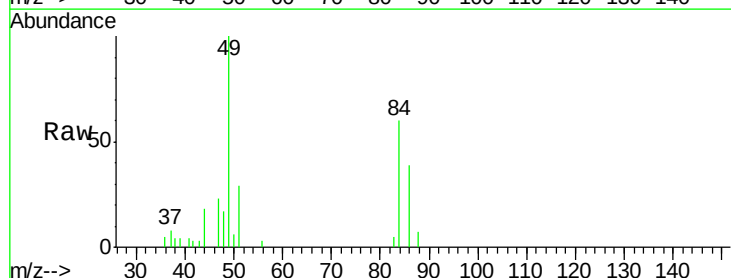
Instrument :
MSVOA_D
ClientSampleId :

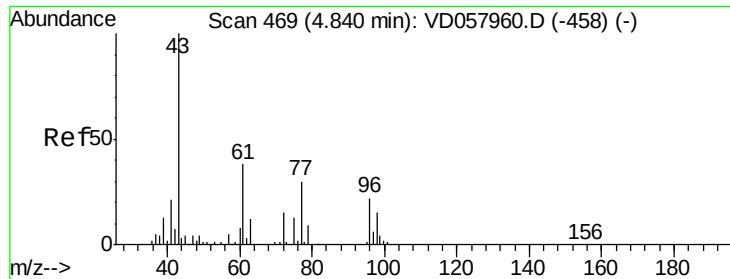
Tot Ion: 43 Resp: 98432
Ion Ratio Lower Upper
43 100
58 19.4 15.8 23.8



#20
Methylene Chloride
Concen: 1.890 ug/l
RT: 3.06 min Scan# 288
Delta R.T. -0.02 min
Lab File: VD058183.D
Acq: 18 Jun 2018 16:11

Tgt Ion: 84 Resp: 17277
Ion Ratio Lower Upper
84 100
49 167.7 141.4 212.0
51 48.2 38.3 57.5
86 66.1 52.9 79.3





#25

2-Butanone

Concen: 8.900 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

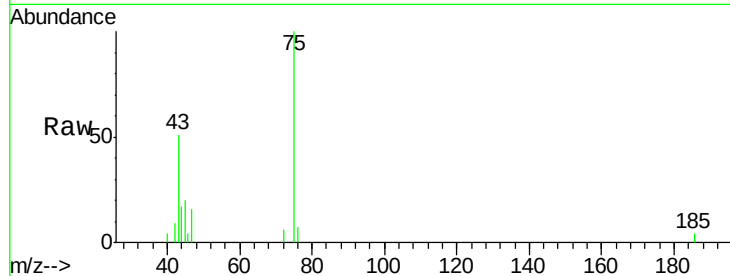
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 15154

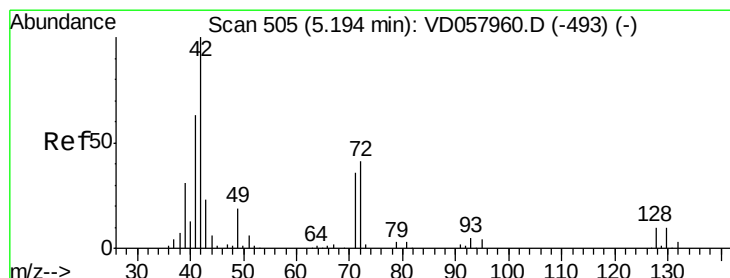
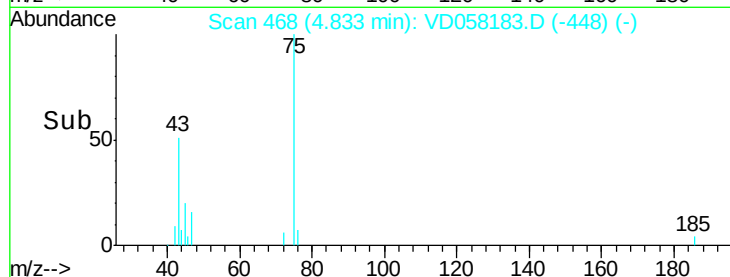
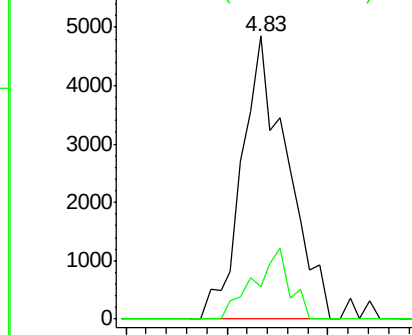
Ion Ratio Lower Upper

43 100

72 11.3 12.0 18.0#



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



#29

Tetrahydrofuran

Concen: 1.998 ug/l

RT: 5.19 min Scan# 504

Delta R.T. -0.01 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

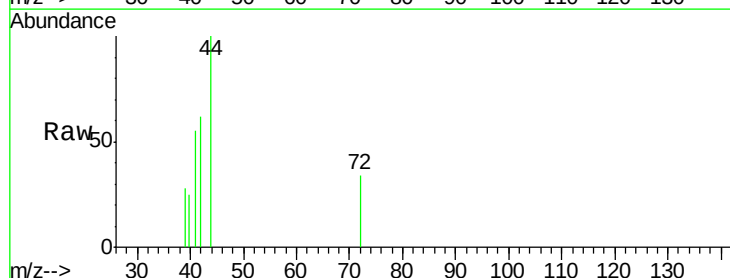
Tgt Ion: 42 Resp: 1783

Ion Ratio Lower Upper

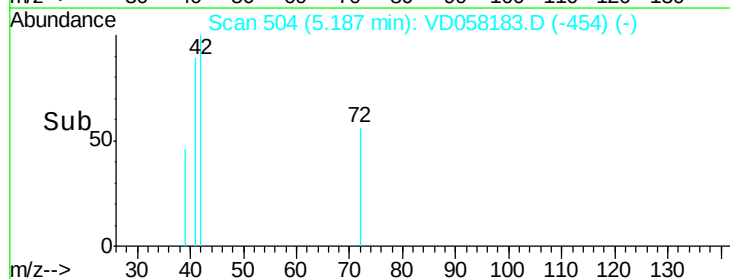
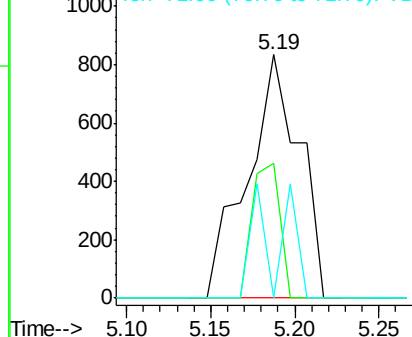
42 100

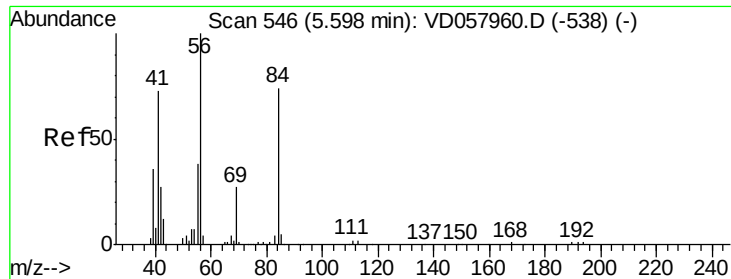
72 29.4 28.5 42.7

71 26.0 27.9 41.9#



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

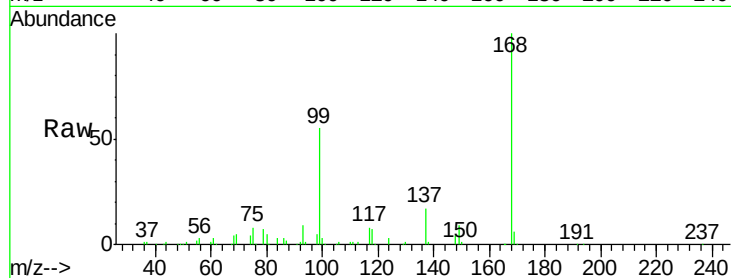




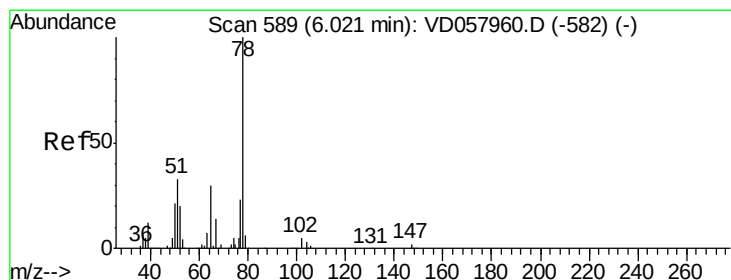
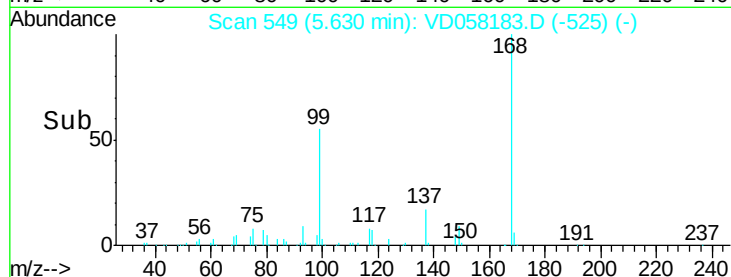
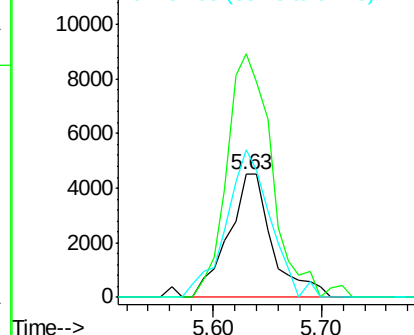
#31
Cyclohexane
Concen: 1.411 ug/l
RT: 5.63 min Scan# 549
Delta R.T. 0.03 min
Lab File: VD058183.D
Acq: 18 Jun 2018 16:11

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 12762
Ion Ratio Lower Upper
56 100
69 197.5 21.5 32.3#
84 119.3 61.0 91.6#

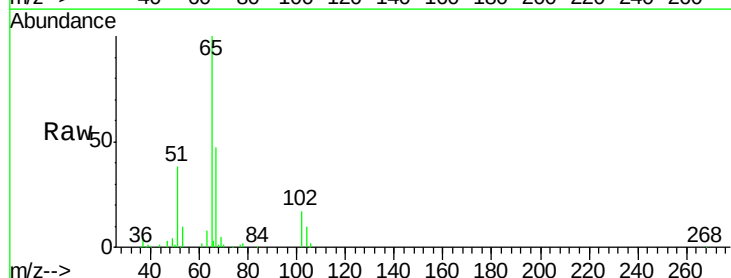


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

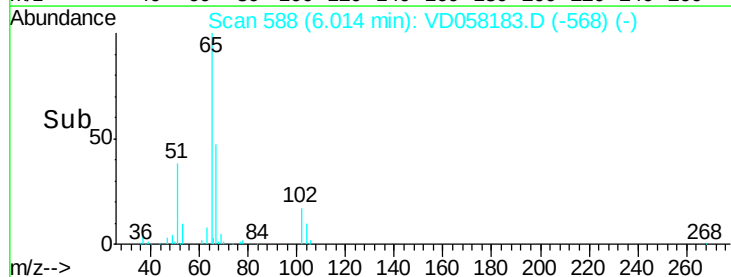
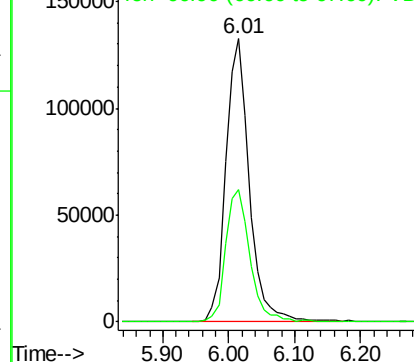


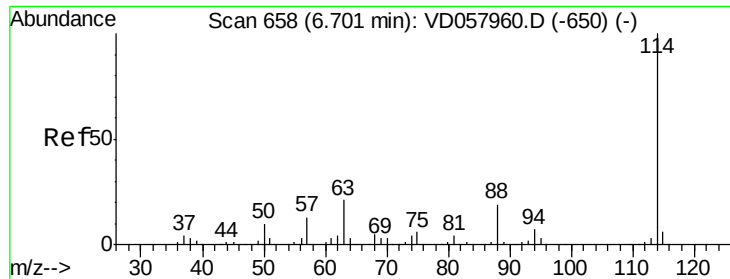
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.01 min Scan# 588
Delta R.T. -0.01 min
Lab File: VD058183.D
Acq: 18 Jun 2018 16:11

Tgt Ion: 65 Resp: 329814
Ion Ratio Lower Upper
65 100
67 46.6 0.0 94.0



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.68 min Scan# 656

Delta R.T. -0.02 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

Instrument :

MSVOA_D

ClientSampleId :

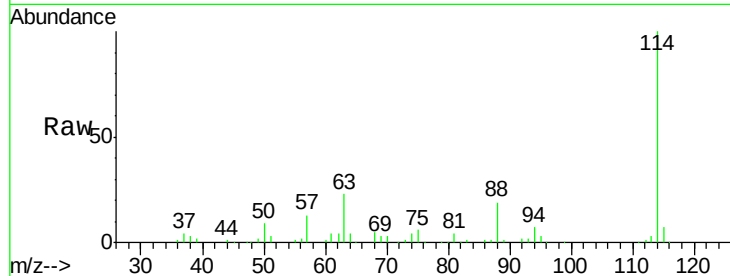
Tot Ion:114 Resp: 694276

Ion Ratio Lower Upper

114 100

63 23.4 0.0 42.8

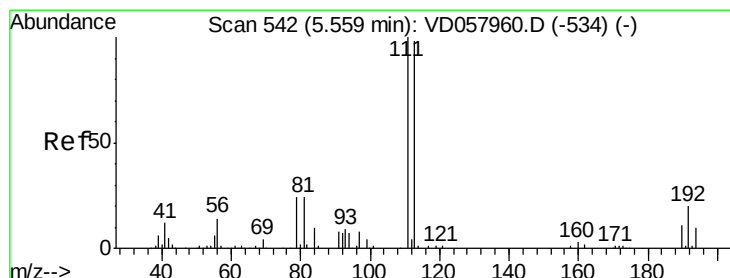
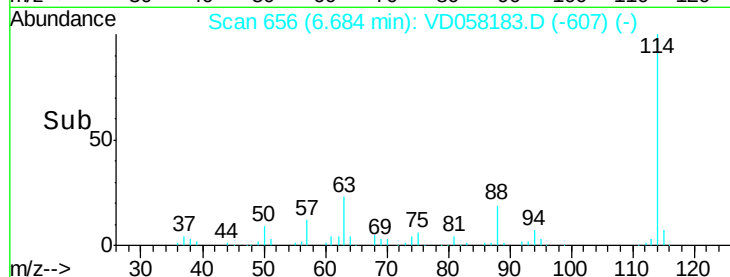
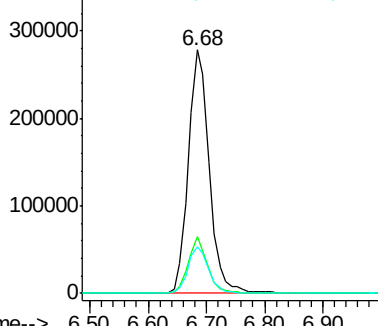
88 19.1 0.0 37.8



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: 5.54 min Scan# 540

Delta R.T. -0.02 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

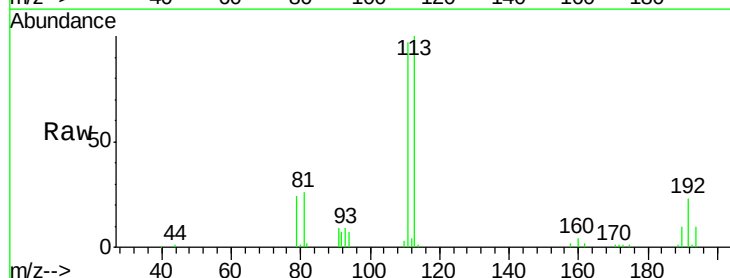
Tgt Ion:113 Resp: 239331

Ion Ratio Lower Upper

113 100

111 96.8 81.5 122.3

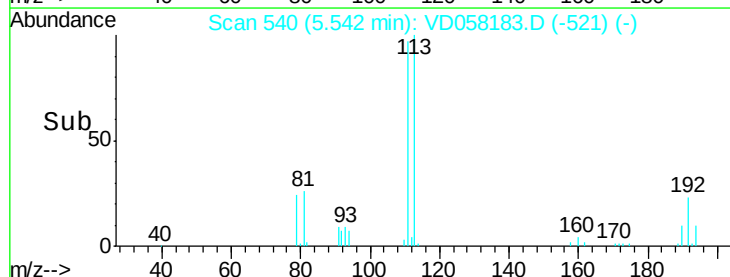
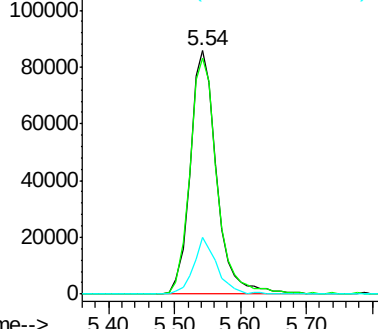
192 23.3 16.4 24.6

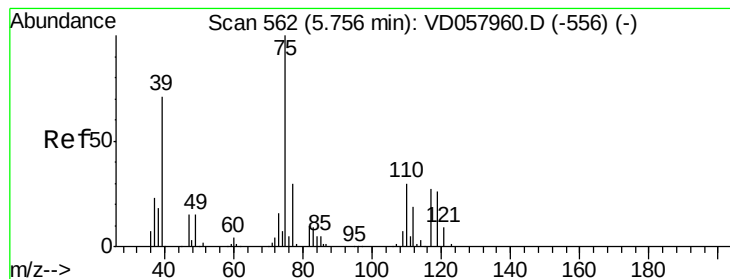


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.440 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.12 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

Instrument :

MSVOA_D

ClientSampleId :

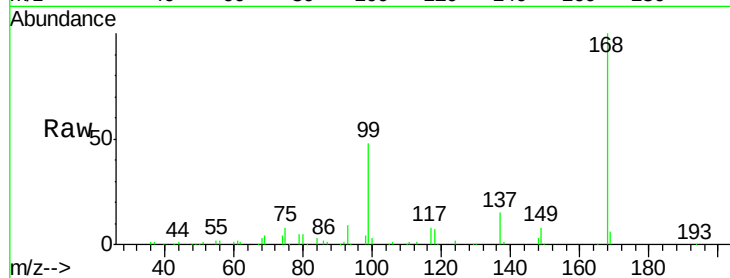
Tot Ion: 75 Resp: 41612

Ion Ratio Lower Upper

75 100

110 3.7 14.8 44.3#

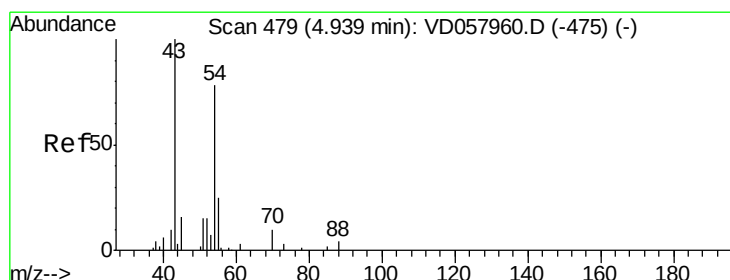
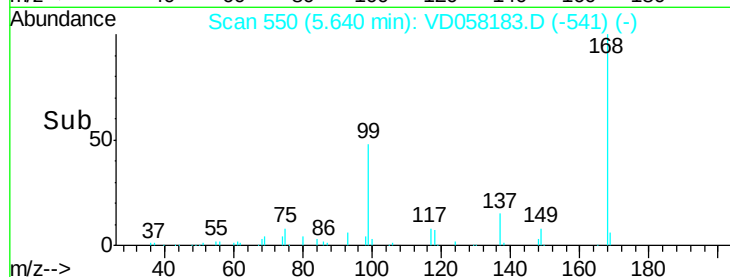
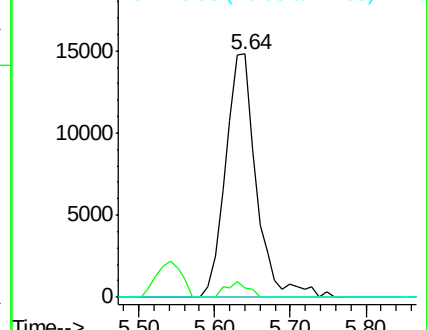
77 0.0 23.9 35.9#



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: 3.631 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.11 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

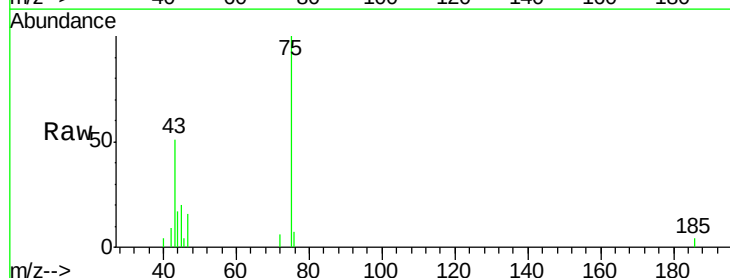
Tgt Ion: 43 Resp: 15154

Ion Ratio Lower Upper

43 100

61 0.0 9.9 14.9#

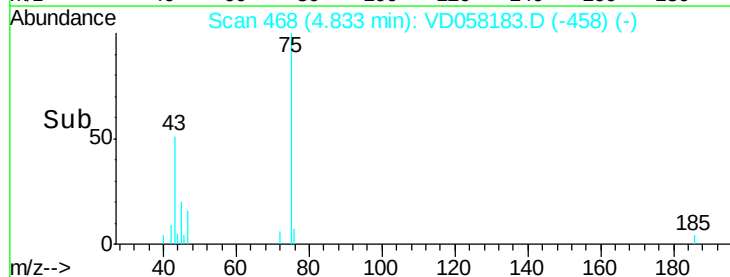
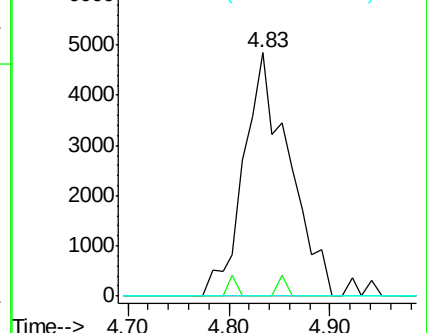
70 0.0 5.7 8.5#

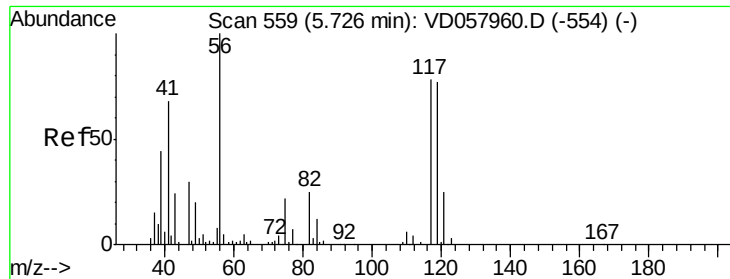


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.639 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

Instrument :

MSVOA_D

ClientSampleId :

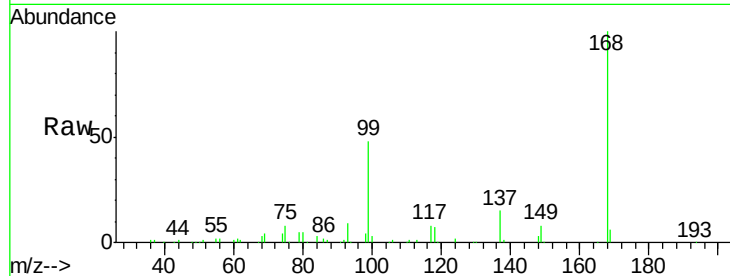
Tot Ion:117 Resp: 42512

Ion Ratio Lower Upper

117 100

119 5.1 76.1 114.1#

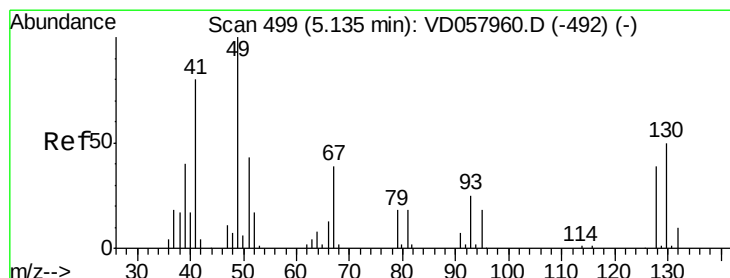
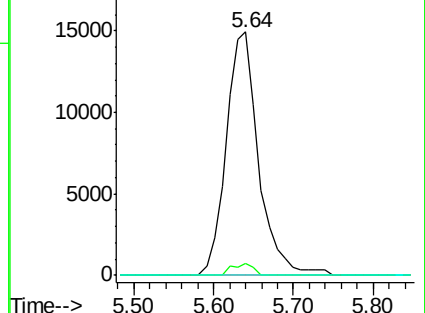
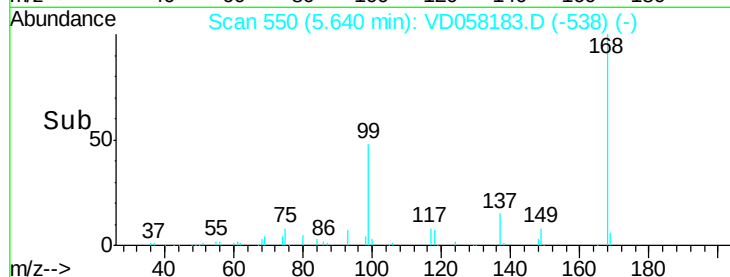
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 1.099 ug/l

RT: 5.19 min Scan# 504

Delta R.T. 0.05 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

Tgt Ion: 41 Resp: 2097

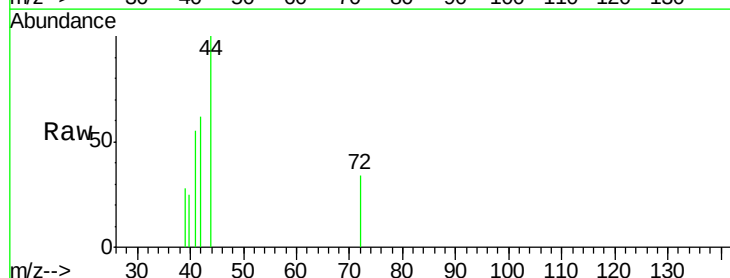
Ion Ratio Lower Upper

41 100

39 51.7 40.7 61.1

67 0.0 38.8 58.2#

52 0.0 17.3 25.9#

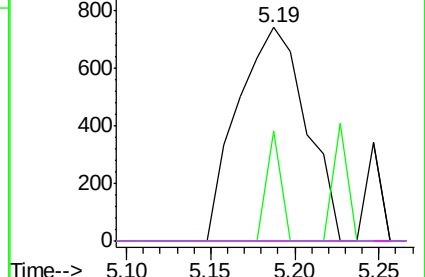
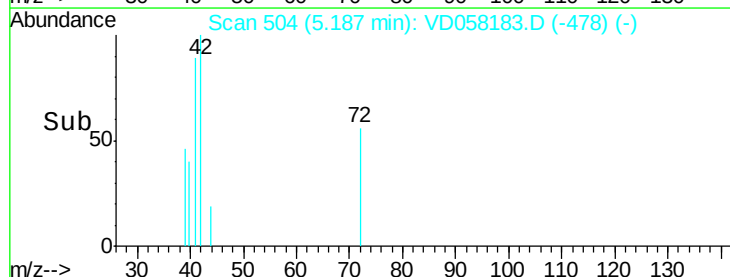


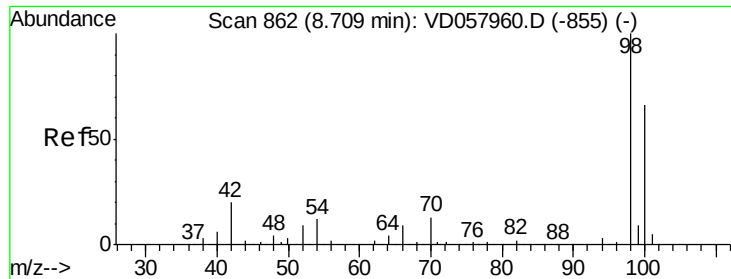
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

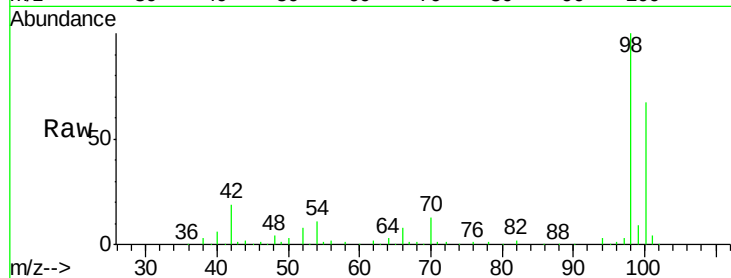
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 616430

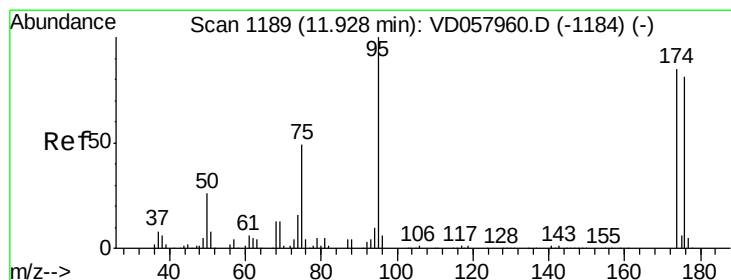
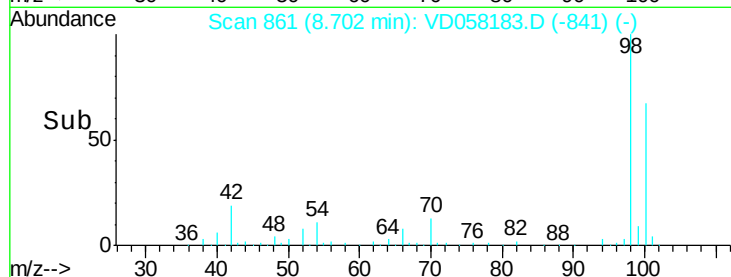
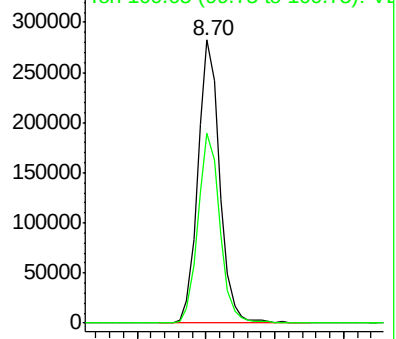
Ion Ratio Lower Upper

98 100

100 67.2 53.4 80.0



Abundance Ion 98.05 (97.75 to 98.75): VD057960.D (-855) (-)



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

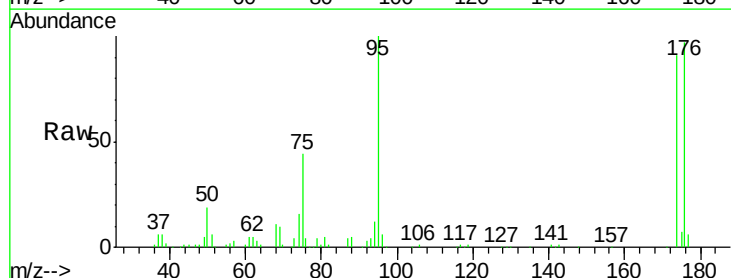
Tgt Ion: 95 Resp: 241194

Ion Ratio Lower Upper

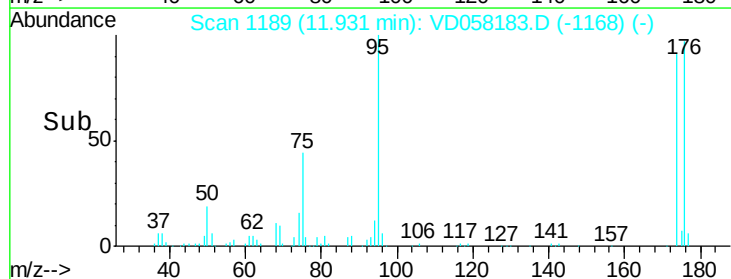
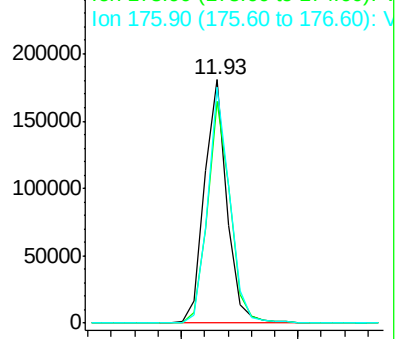
95 100

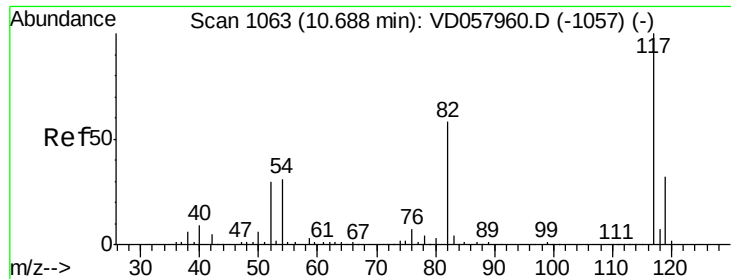
174 91.1 0.0 169.4

176 96.7 0.0 162.6



Abundance Ion 95.00 (94.70 to 95.70): VD057960.D (-1184) (-)

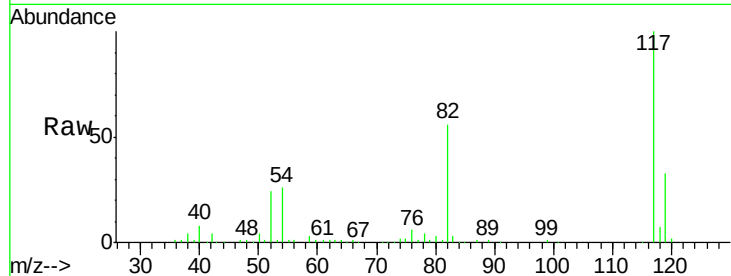




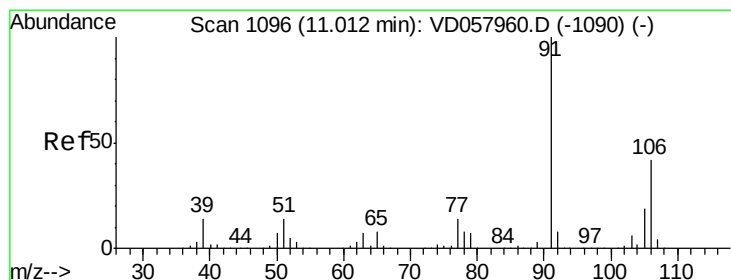
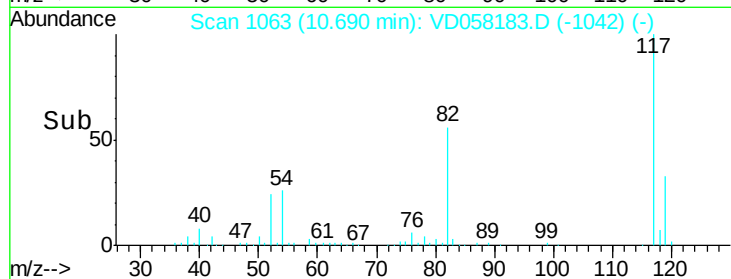
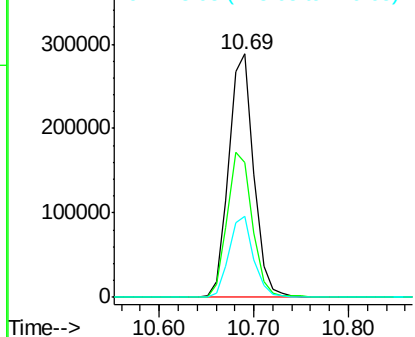
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VD058183.D
Acq: 18 Jun 2018 16:11

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 528738
Ion Ratio Lower Upper
117 100
82 55.6 46.8 70.2
119 33.3 25.8 38.6

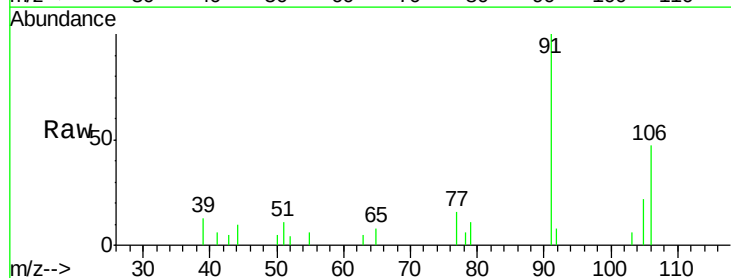


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

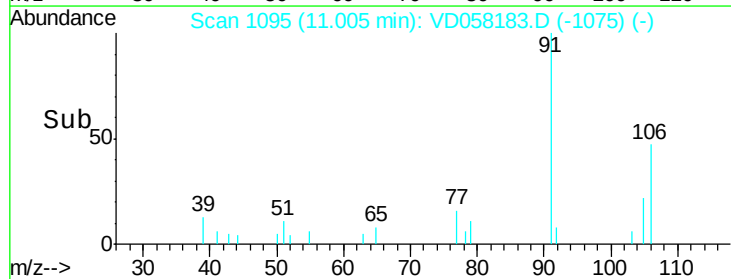
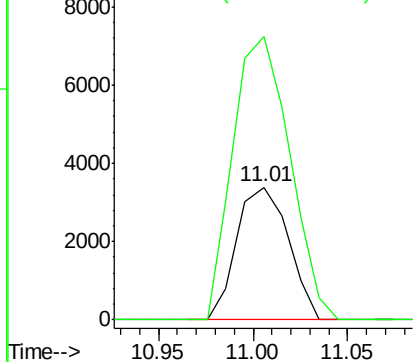


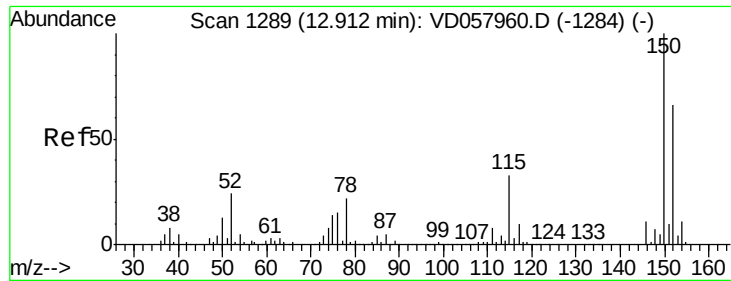
#68
m/p-Xylenes
Concen: 1.019 ug/l
RT: 11.01 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VD058183.D
Acq: 18 Jun 2018 16:11

Tgt Ion:106 Resp: 6426
Ion Ratio Lower Upper
106 100
91 213.1 190.4 285.6



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.91 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

Instrument :

MSVOA_D

ClientSampleId :

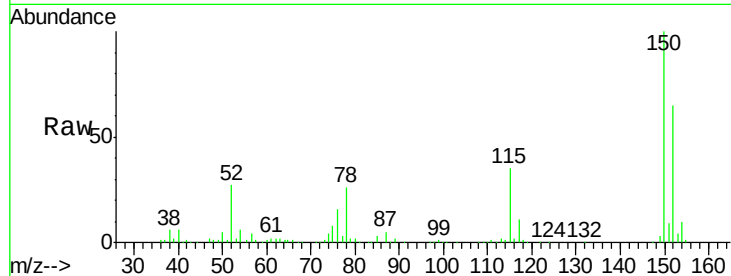
Tot Ion:152 Resp: 228012

Ion Ratio Lower Upper

152 100

115 54.9 25.6 76.6

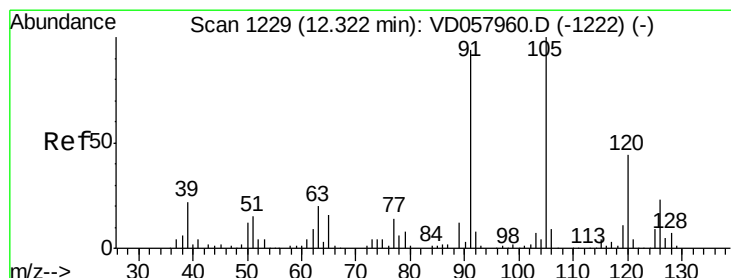
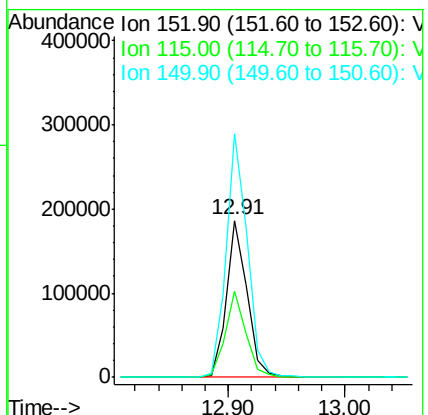
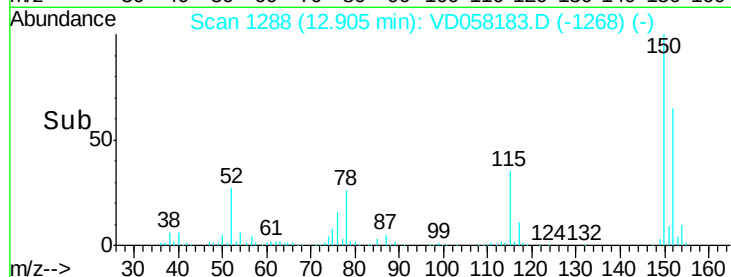
150 154.9 0.0 306.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#80

1,3,5-Trimethylbenzene

Concen: 1.019 ug/l

RT: 12.31 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VD058183.D

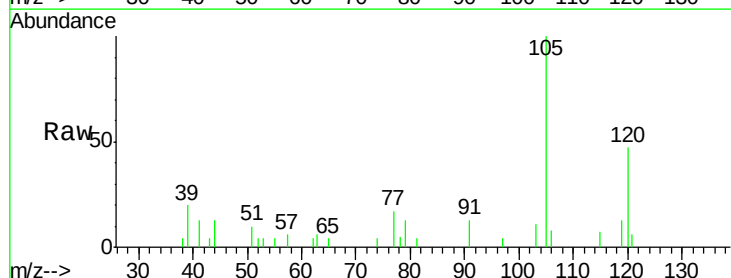
Acq: 18 Jun 2018 16:11

Tgt Ion:105 Resp: 12007

Ion Ratio Lower Upper

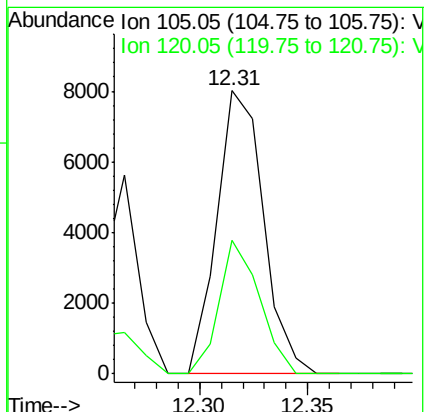
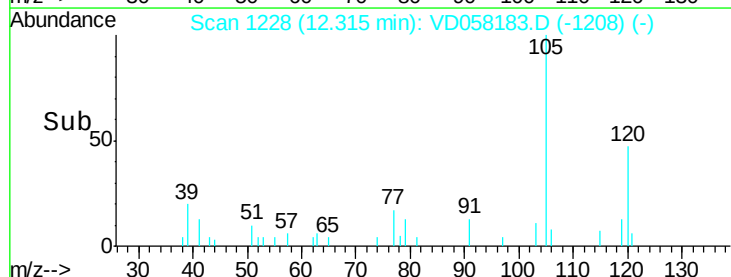
105 100

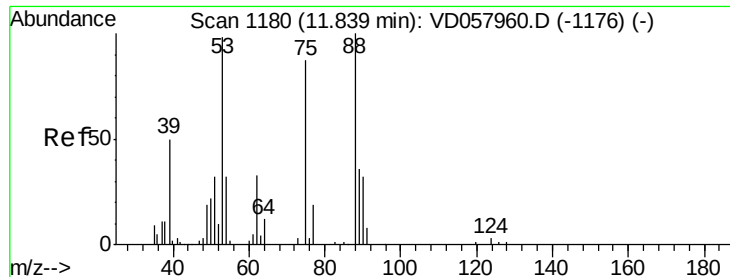
120 47.3 22.0 66.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

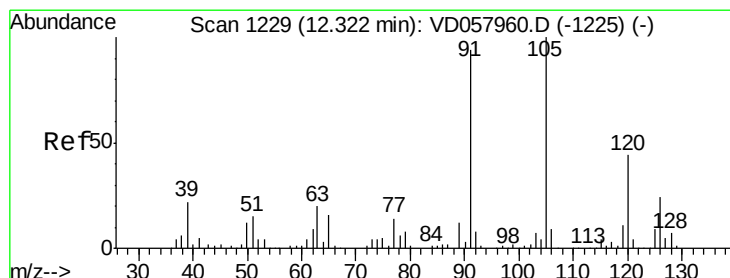
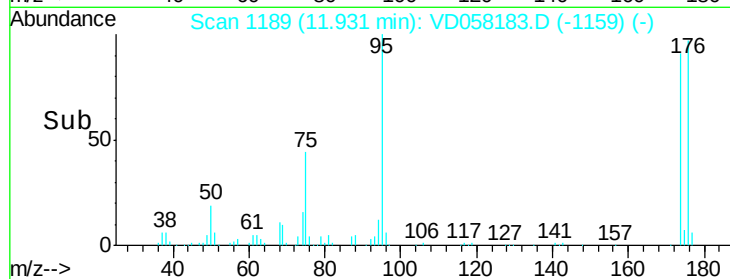
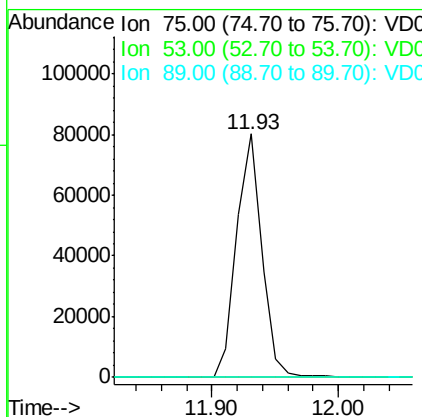
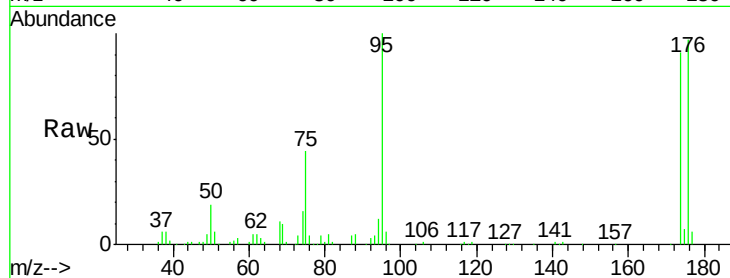




#81
trans-1,4-Dichloro-2-butene
Concen: 131.050 ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.09 min
Lab File: VD058183.D
Acq: 18 Jun 2018 16:11

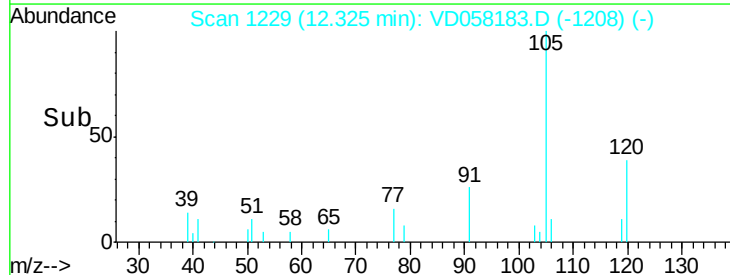
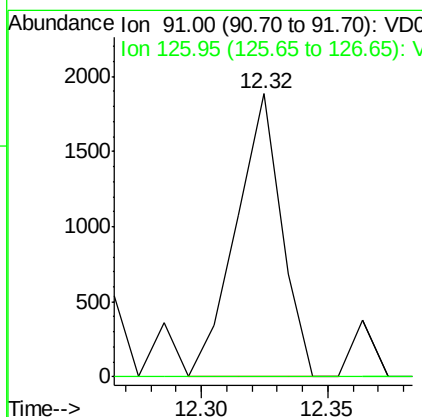
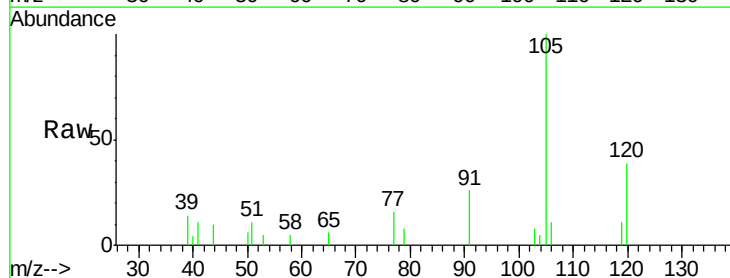
Instrument :
MSVOA_D
ClientSampleId :

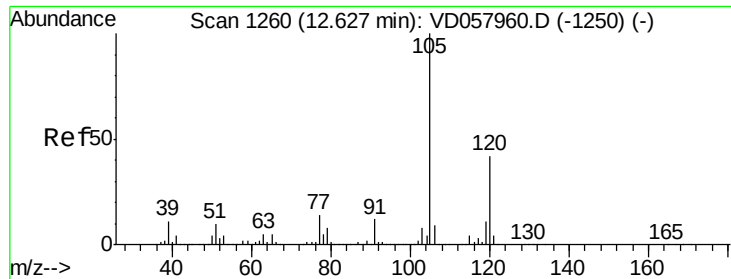
Tot Ion: 75 Resp: 111175
Ion Ratio Lower Upper
75 100
53 0.0 89.3 133.9#
89 0.0 33.3 49.9#



#82
4-Chlorotoluene
Concen: Below Cal
RT: 12.32 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VD058183.D
Acq: 18 Jun 2018 16:11

Tgt Ion: 91 Resp: 2359
Ion Ratio Lower Upper
91 100
126 0.0 12.5 37.5#

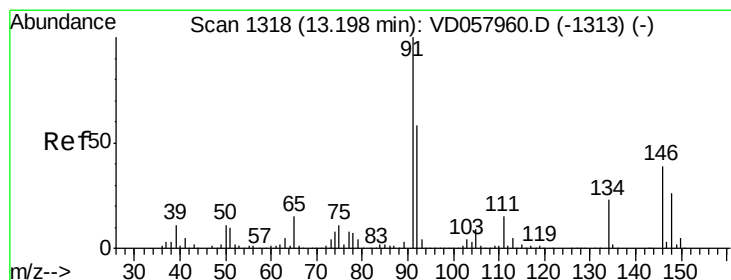
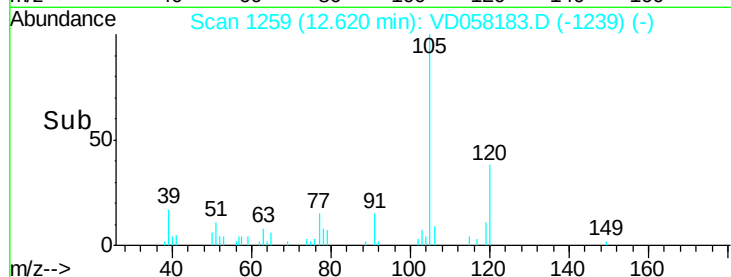
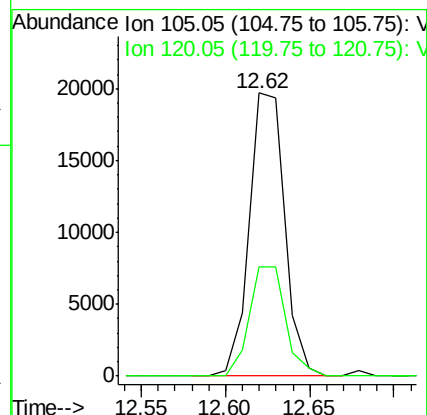
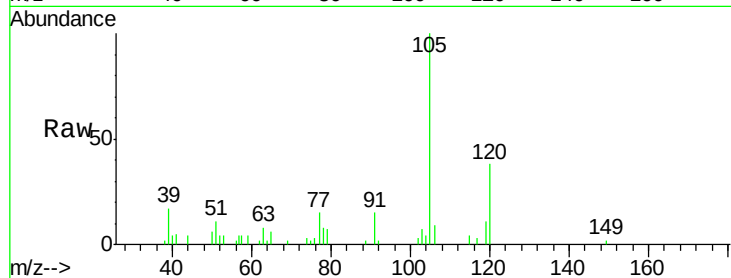




#84
 1,2,4-Trimethylbenzene
 Concen: 2.272 ug/l
 RT: 12.62 min Scan# 1259
 Delta R.T. -0.01 min
 Lab File: VD058183.D
 Acq: 18 Jun 2018 16:11

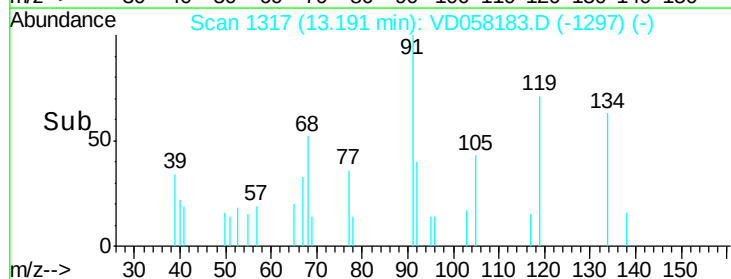
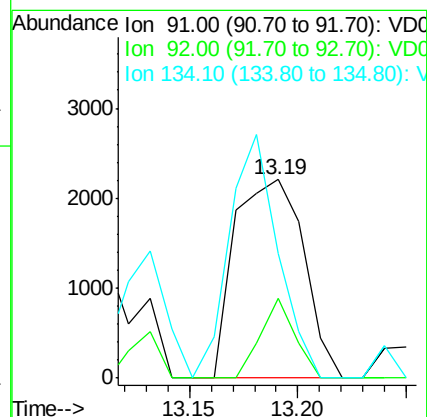
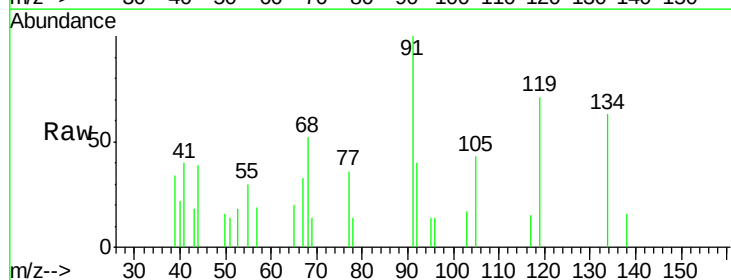
Instrument :
 MSVOA_D
 ClientSampled :

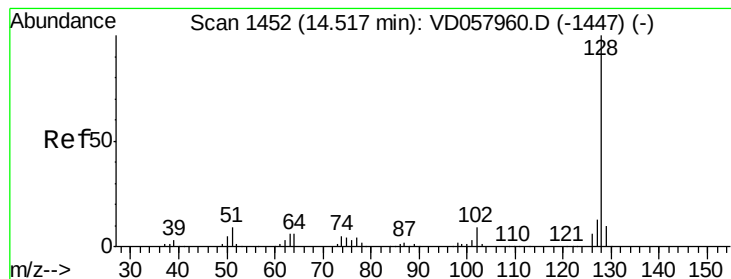
Tot Ion:105 Resp: 28772
 Ion Ratio Lower Upper
 105 100
 120 38.4 21.2 63.6



#89
 n-Butylbenzene
 Concen: Below Cal
 RT: 13.19 min Scan# 1317
 Delta R.T. -0.01 min
 Lab File: VD058183.D
 Acq: 18 Jun 2018 16:11

Tgt Ion: 91 Resp: 4921
 Ion Ratio Lower Upper
 91 100
 92 40.1 29.2 87.6
 134 62.6 11.3 33.9#





#95

Naphthalene

Concen: 25.778 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058183.D

Acq: 18 Jun 2018 16:11

Instrument :

MSVOA_D

ClientSampleId :

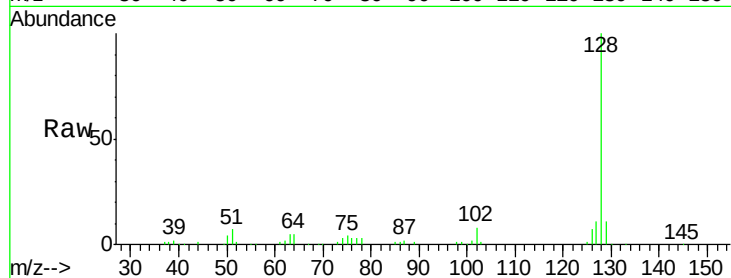
Tot Ion:128 Resp: 189756

Ion Ratio Lower Upper

128 100

127 11.5 10.2 15.2

129 11.0 8.2 12.2



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

