

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD100518\
 Data File : VD060140.D
 Acq On : 5 Oct 2018 16:38
 Operator : VA/AP
 Sample : J5270-02
 Misc : 5.01g/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE-A

Quant Time: Oct 05 23:42:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	516418	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.43	114	544605	50.00	ug/l	0.01
63) Chlorobenzene-d5	11.28	117	167542	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.36	152	30324	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	156890	40.08	ug/l	0.01
Spiked Amount 50.000			Recovery	=	80.16%	
35) Dibromofluoromethane	6.31	113	224572	54.30	ug/l	0.01
Spiked Amount 50.000			Recovery	=	108.60%	
50) Toluene-d8	9.45	98	288842	24.49	ug/l	0.01
Spiked Amount 50.000			Recovery	=	48.98%	
62) 4-Bromofluorobenzene	12.42	95	35690	8.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	16.16%	

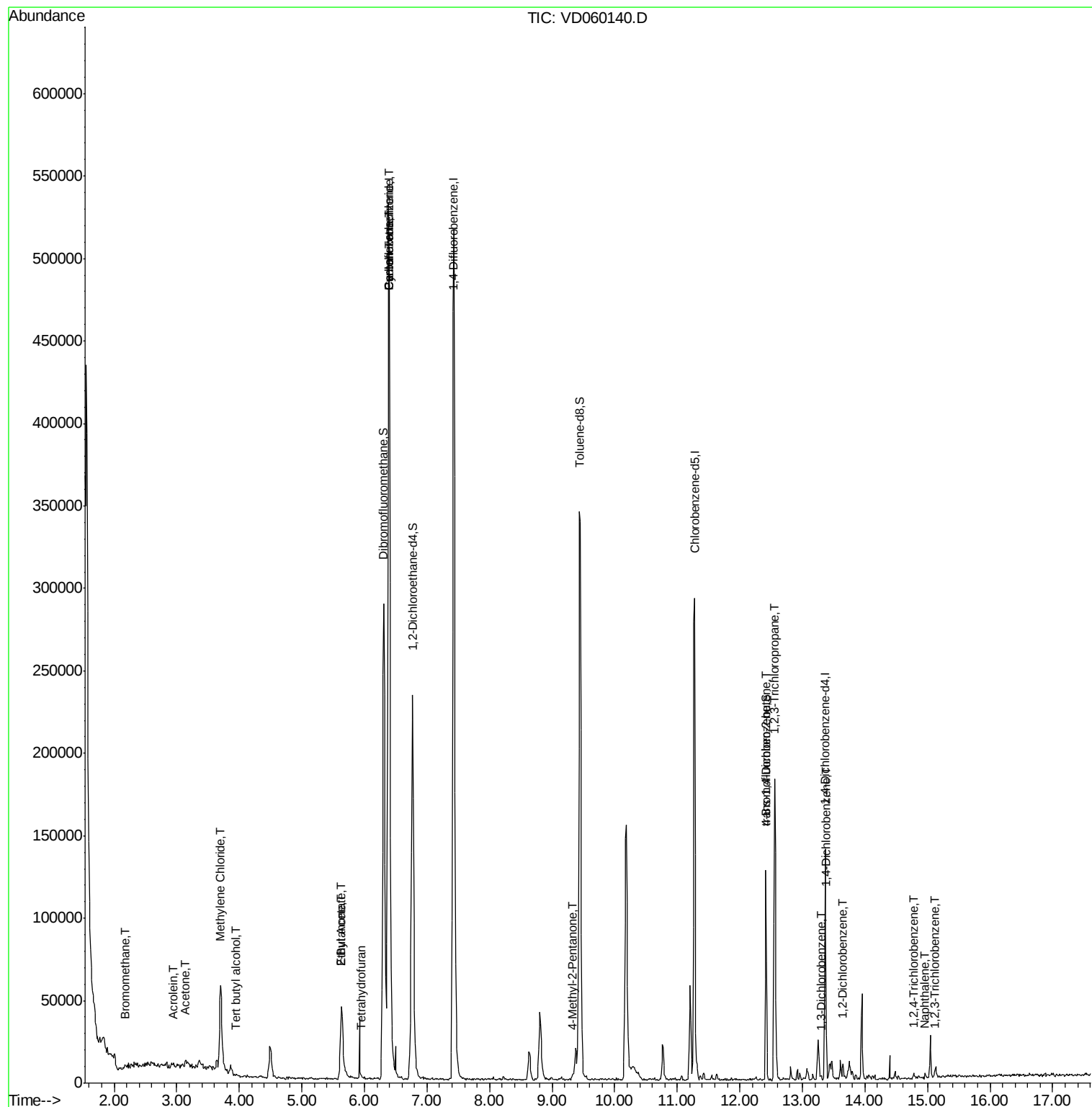
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	915	2.033	ug/l #	1
11) Tert butyl alcohol	3.95	59	485	1.728	ug/l #	74
13) Acrolein	2.93	56	185	1.069	ug/l #	14
16) Acetone	3.14	43	8976	12.637	ug/l #	87
20) Methylene Chloride	3.70	84	32009	1.559	ug/l	96
25) 2-Butanone	5.62	43	5498	3.098	ug/l #	59
29) Tetrahydrofuran	5.95	42	1731	1.679	ug/l #	51
31) Cyclohexane	6.39	56	10229	1.206	ug/l #	1
37) Ethyl Acetate	5.62	43	5498	1.592	ug/l #	65
38) Carbon Tetrachloride	6.39	117	38743	8.202	ug/l #	16
51) 4-Methyl-2-Pentanone	9.33	43	3943	1.376	ug/l	90
76) 1,2,3-Trichloropropane	12.56	75	1274	2.917	ug/l #	42
81) trans-1,4-Dichloro-2-buten	12.42	75	14035	114.377	ug/l #	13
87) 1,3-Dichlorobenzene	13.30	146	1023	1.010	ug/l #	71
88) 1,4-Dichlorobenzene	13.38	146	1550	1.524	ug/l #	75
91) 1,2-Dichlorobenzene	13.66	146	1045	1.227	ug/l #	57
93) 1,2,4-Trichlorobenzene	14.78	180	1351	1.869	ug/l #	77
95) Naphthalene	14.96	128	2849	2.659	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.10	180	897	1.426	ug/l #	77

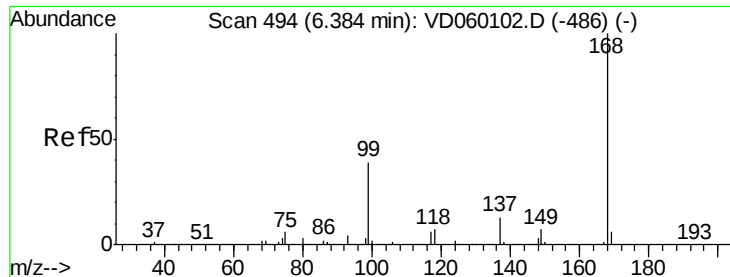
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 02 06:56:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 494

Delta R.T. 0.00 min

Lab File: VD060140.D

Acq: 5 Oct 2018 16:38

Instrument :

MSVOA_D

ClientSampleId :

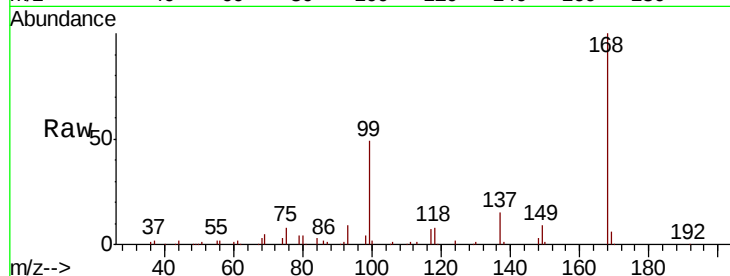
STOCK-PILE-A

Tgt Ion:168 Resp: 516418

Ion Ratio Lower Upper

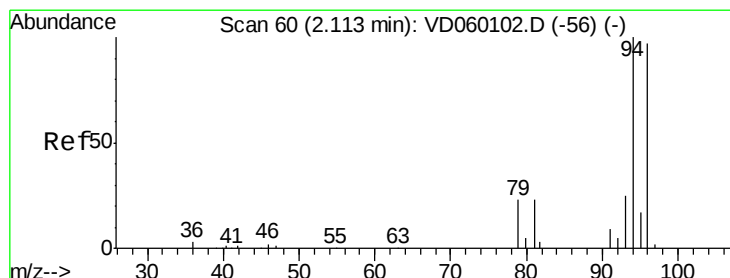
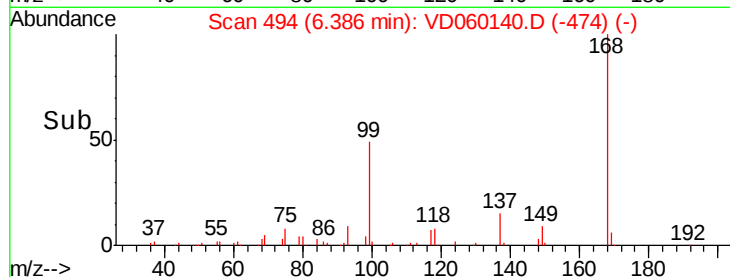
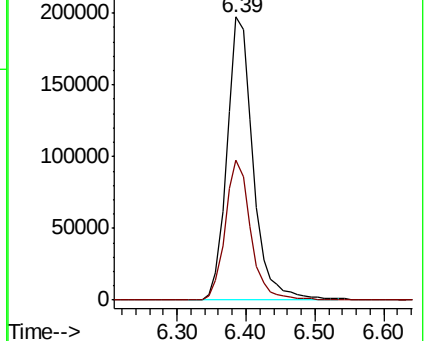
168 100

99 49.3 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 2.033 ug/l

RT: 2.17 min Scan# 66

Delta R.T. 0.06 min

Lab File: VD060140.D

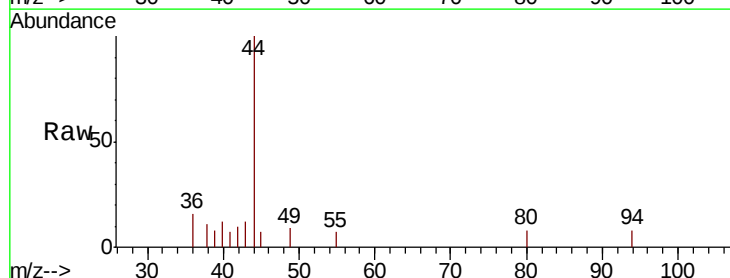
Acq: 5 Oct 2018 16:38

Tgt Ion: 94 Resp: 915

Ion Ratio Lower Upper

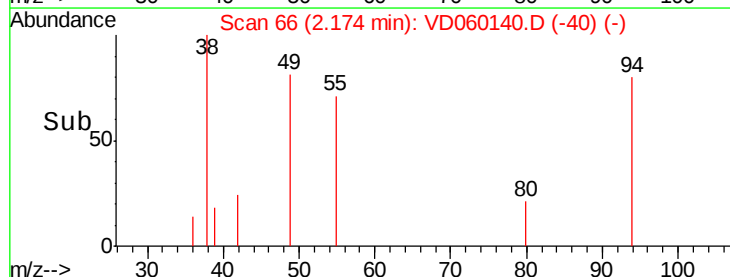
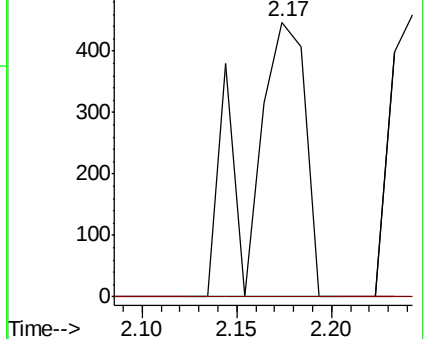
94 100

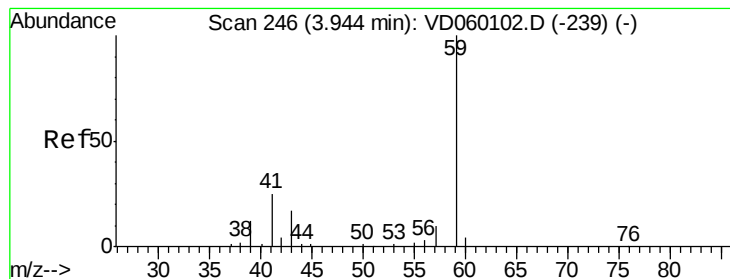
96 0.0 77.4 116.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#11

Tert butyl alcohol

Concen: 1.728 ug/l

RT: 3.95 min Scan# 246

Delta R.T. 0.00 min

Lab File: VD060140.D

Acq: 5 Oct 2018 16:38

Instrument :

MSVOA_D

ClientSampleId :

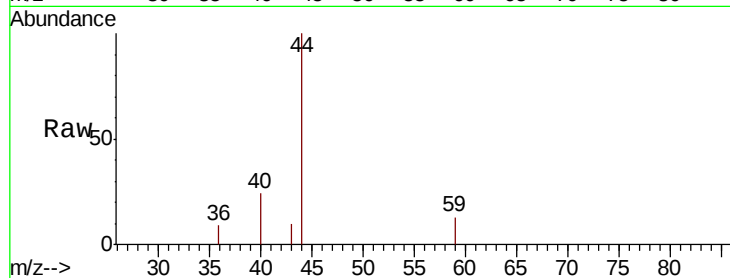
STOCK-PILE-A

Tgt Ion: 59 Resp: 485

Ion Ratio Lower Upper

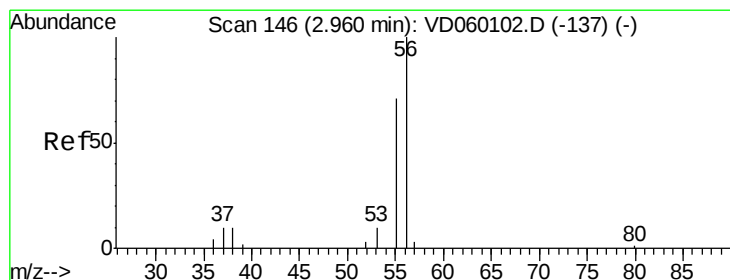
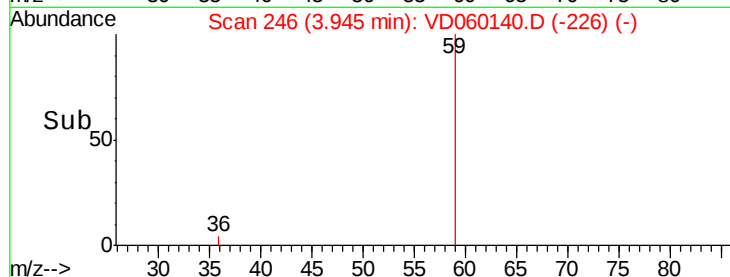
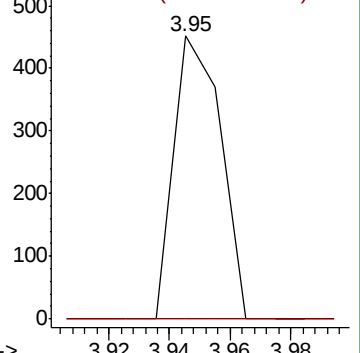
59 100

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



#13

Acrolein

Concen: 1.069 ug/l

RT: 2.93 min Scan# 143

Delta R.T. -0.03 min

Lab File: VD060140.D

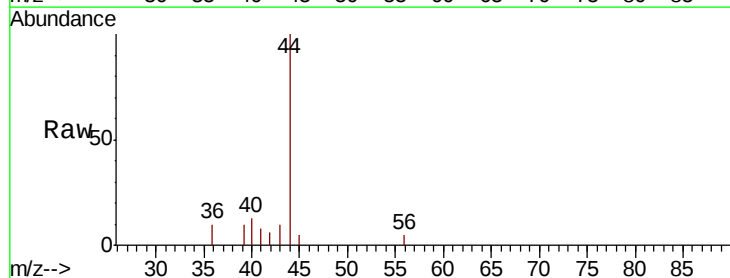
Acq: 5 Oct 2018 16:38

Tgt Ion: 56 Resp: 185

Ion Ratio Lower Upper

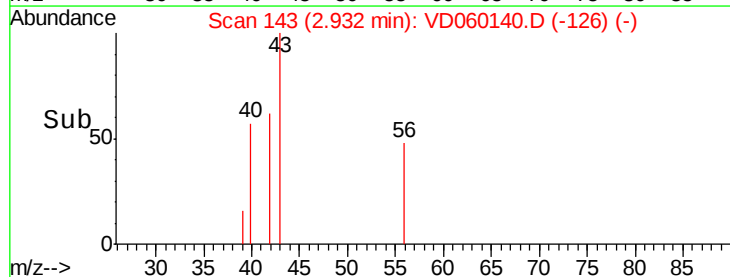
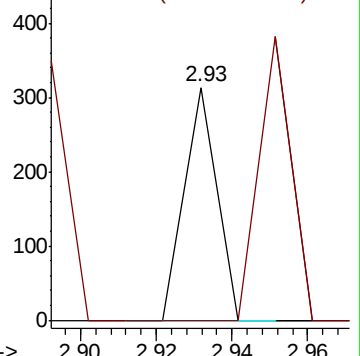
56 100

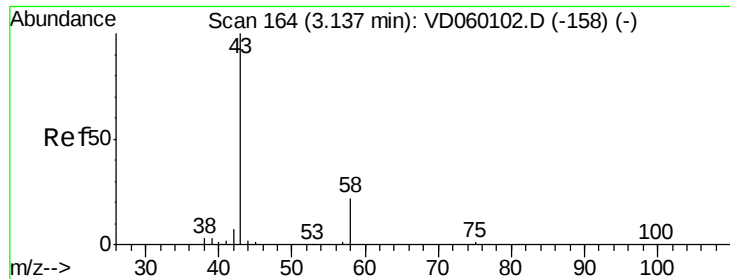
55 0.0 57.4 86.2#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

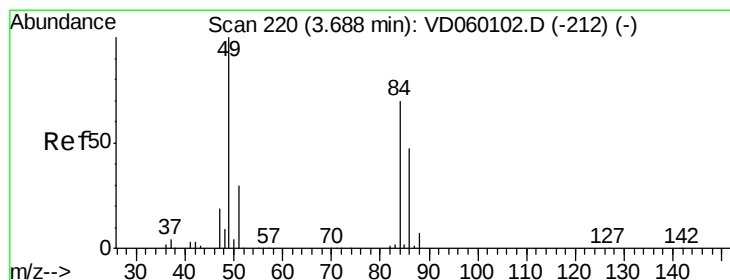
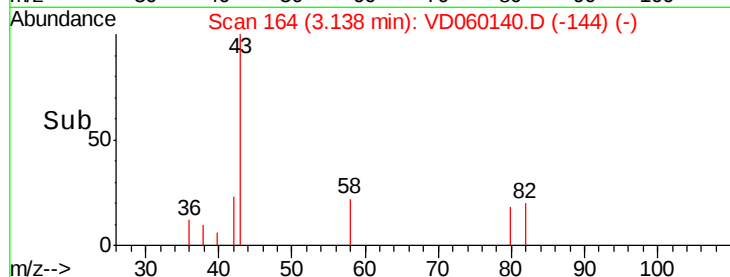
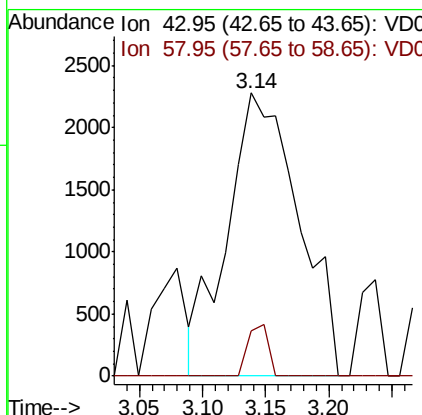
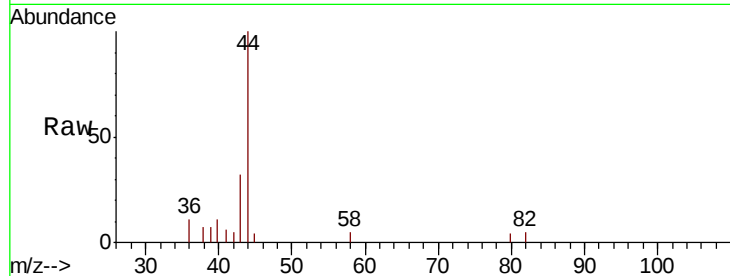




#16
Acetone
Concen: 12.637 ug/l
RT: 3.14 min Scan# 164
Delta R.T. 0.00 min
Lab File: VD060140.D
Acq: 5 Oct 2018 16:38

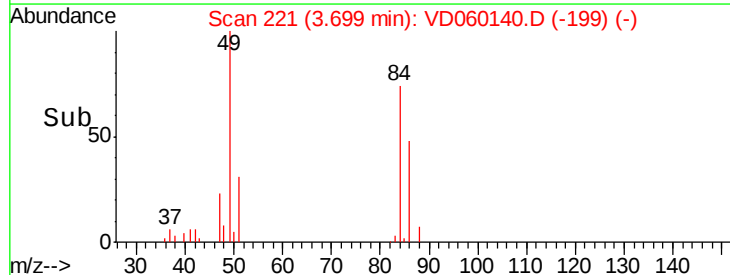
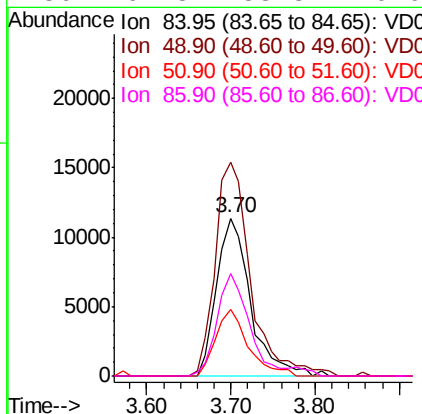
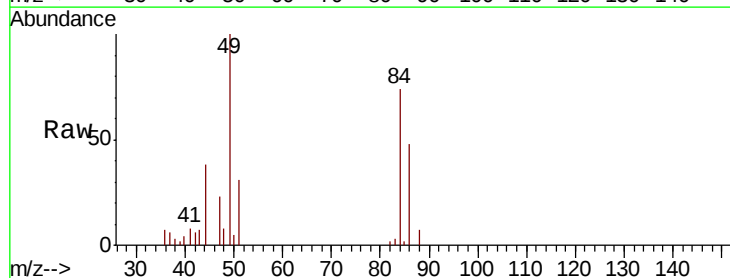
Instrument :
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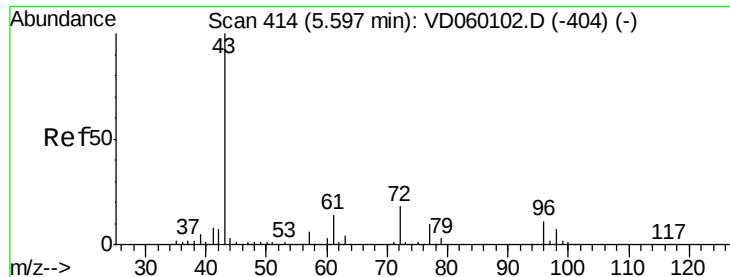
Tgt Ion: 43 Resp: 8976
Ion Ratio Lower Upper
43 100
58 16.1 17.7 26.5#



#20
Methylene Chloride
Concen: 1.559 ug/l
RT: 3.70 min Scan# 221
Delta R.T. 0.01 min
Lab File: VD060140.D
Acq: 5 Oct 2018 16:38

Tgt Ion: 84 Resp: 32009
Ion Ratio Lower Upper
84 100
49 135.2 114.6 172.0
51 42.2 33.8 50.8
86 64.8 53.3 79.9





#25

2-Butanone

Concen: 3.098 ug/l

RT: 5.62 min Scan# 416

Delta R.T. 0.02 min

Lab File: VD060140.D

Acq: 5 Oct 2018 16:38

Instrument :

MSVOA_D

ClientSampleId :

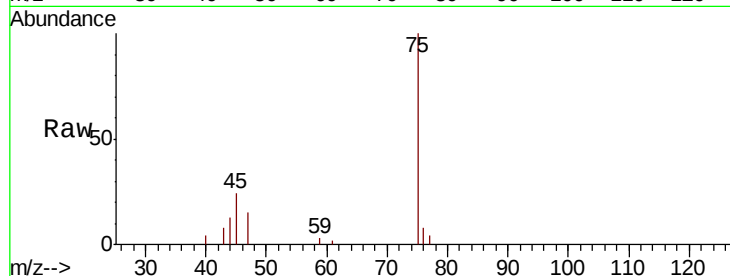
STOCK-PILE-A

Tgt Ion: 43 Resp: 5498

Ion Ratio Lower Upper

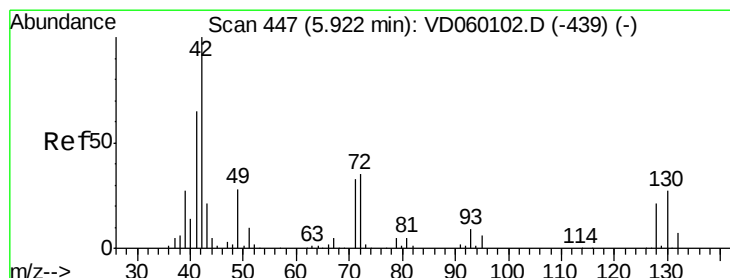
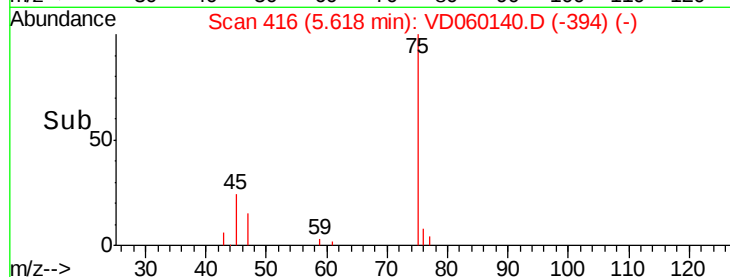
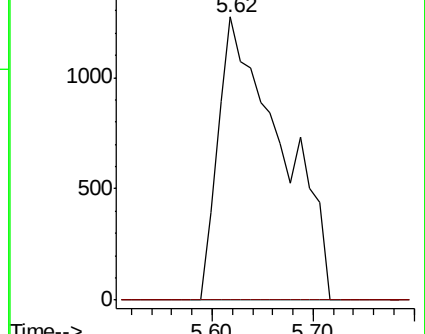
43 100

72 0.0 14.5 21.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.679 ug/l

RT: 5.95 min Scan# 450

Delta R.T. 0.03 min

Lab File: VD060140.D

Acq: 5 Oct 2018 16:38

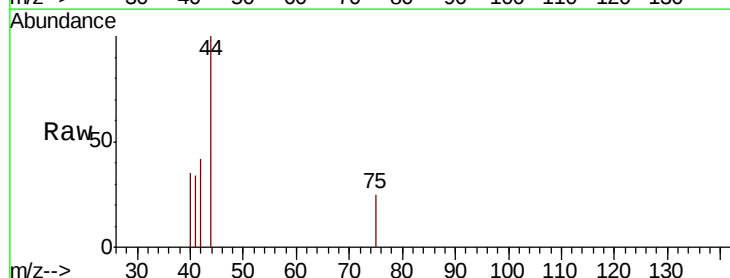
Tgt Ion: 42 Resp: 1731

Ion Ratio Lower Upper

42 100

72 11.3 26.9 40.3#

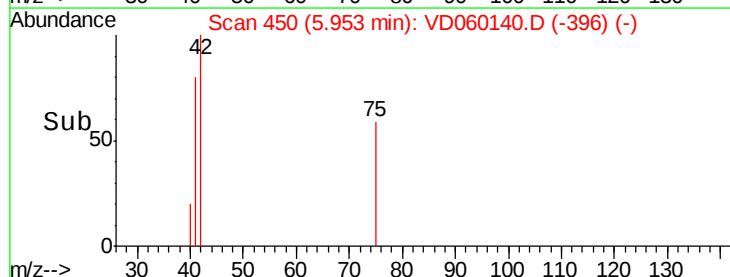
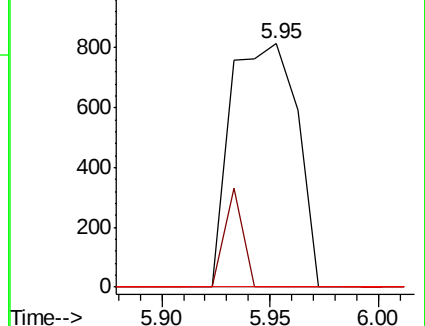
71 0.0 26.7 40.1#

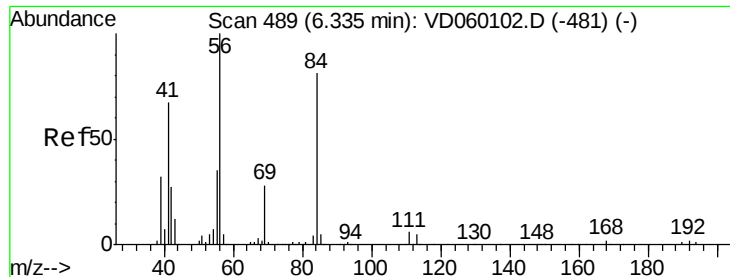


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

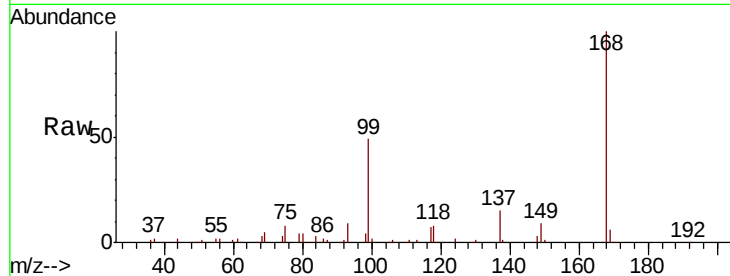




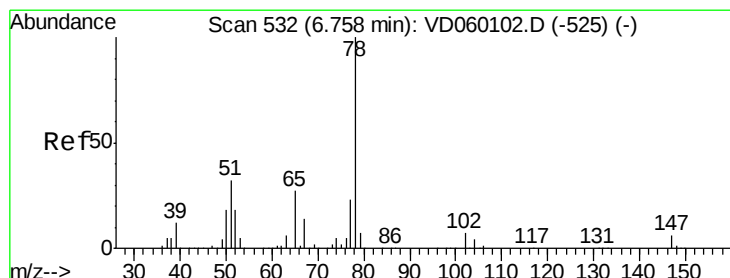
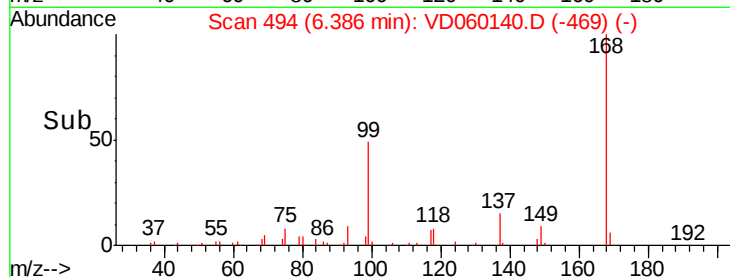
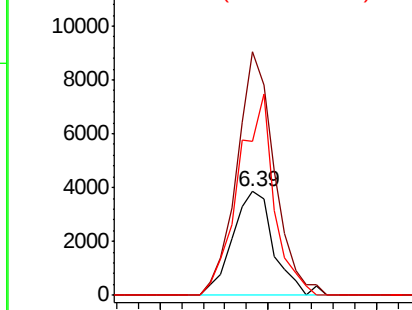
#31
Cyclohexane
Concen: 1.206 ug/l
RT: 6.39 min Scan# 494
Delta R.T. 0.05 min
Lab File: VD060140.D
Acq: 5 Oct 2018 16:38

Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE-A

Tgt Ion: 56 Resp: 10229
Ion Ratio Lower Upper
56 100
69 234.4 22.8 34.2#
84 148.8 64.9 97.3#

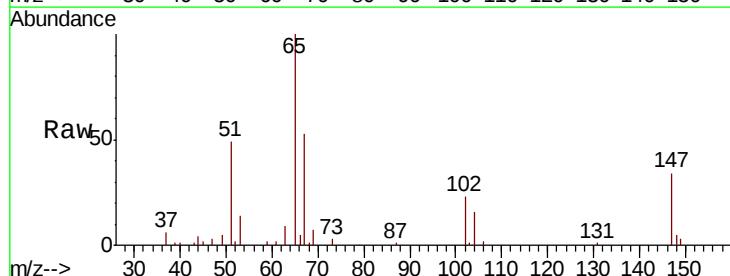


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

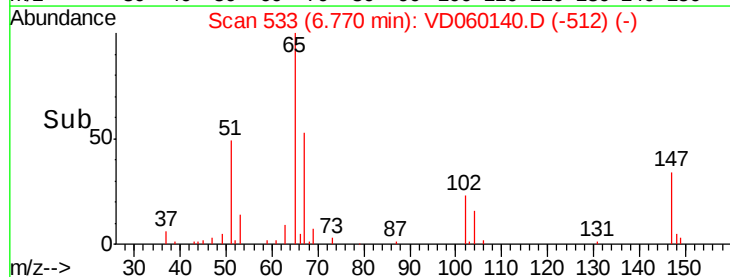
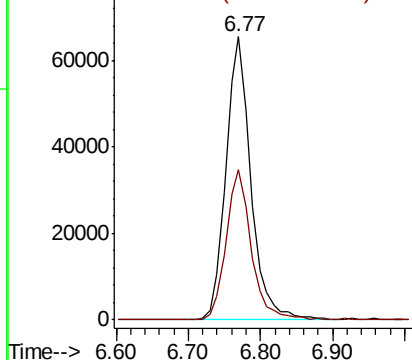


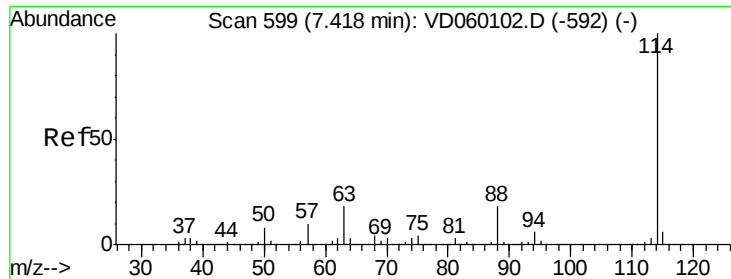
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.77 min Scan# 533
Delta R.T. 0.01 min
Lab File: VD060140.D
Acq: 5 Oct 2018 16:38

Tgt Ion: 65 Resp: 156890
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.2



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

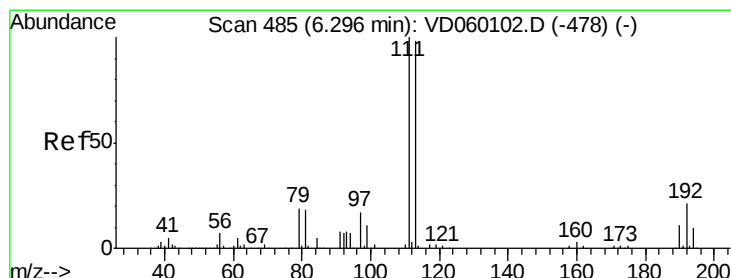
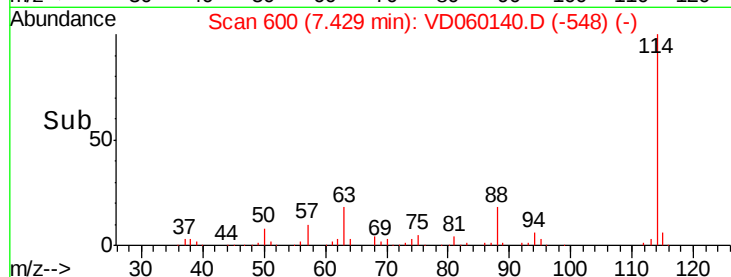
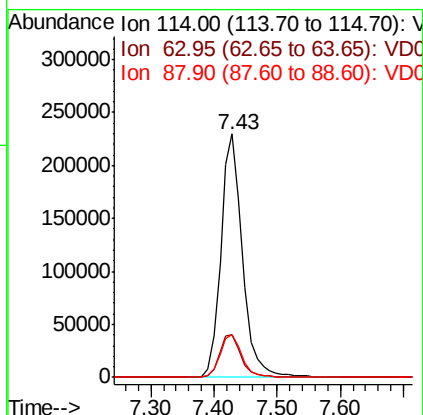
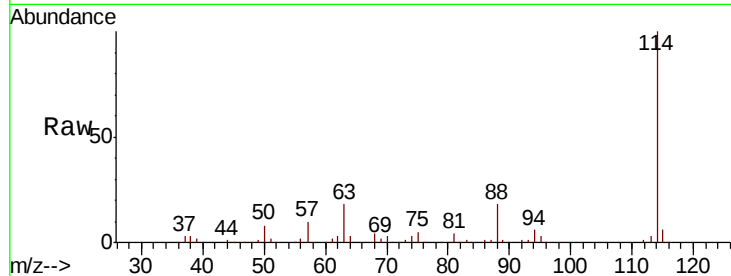




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.43 min Scan# 600
 Delta R.T. 0.01 min
 Lab File: VD060140.D
 Acq: 5 Oct 2018 16:38

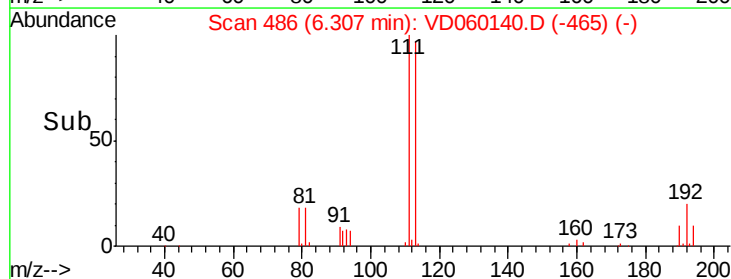
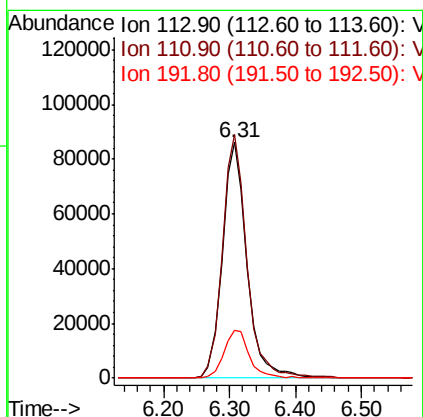
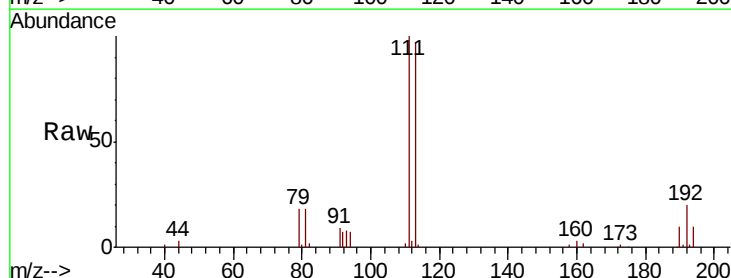
Instrument :
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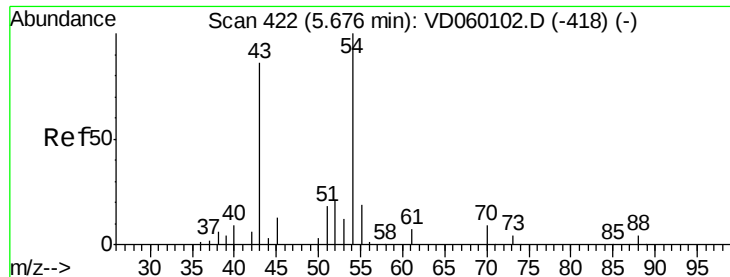
Tgt Ion:114 Resp: 544605
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 36.0
 88 17.6 0.0 36.2



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 486
 Delta R.T. 0.01 min
 Lab File: VD060140.D
 Acq: 5 Oct 2018 16:38

Tgt Ion:113 Resp: 224572
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.5 122.3
 192 20.5 17.4 26.0

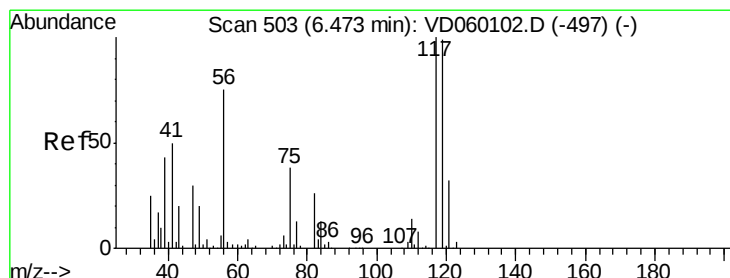
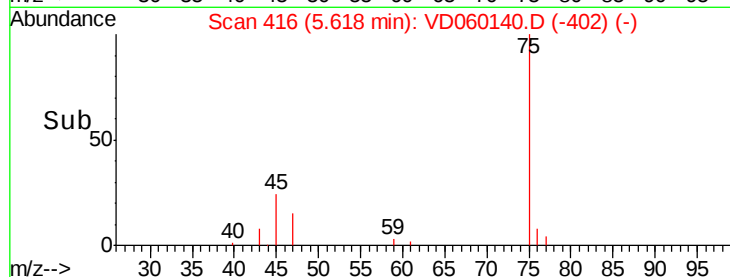
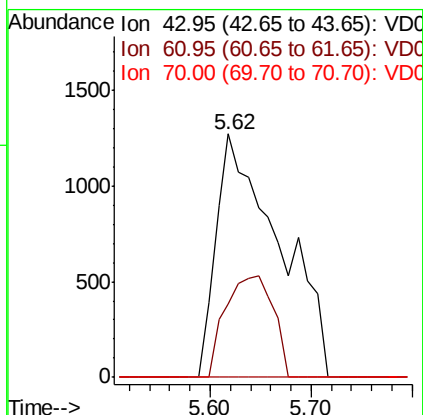
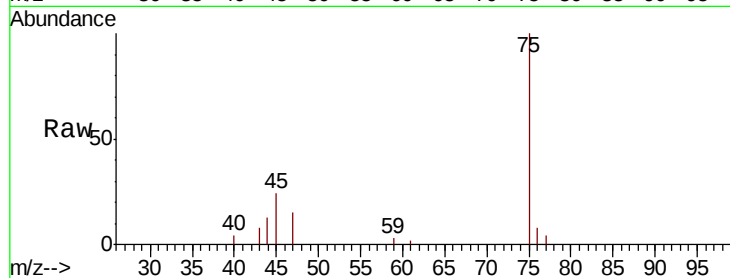




#37
Ethyl Acetate
Concen: 1.592 ug/l
RT: 5.62 min Scan# 416
Delta R.T. -0.06 min
Lab File: VD060140.D
Acq: 5 Oct 2018 16:38

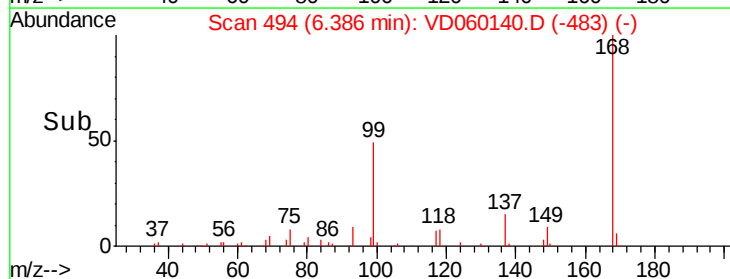
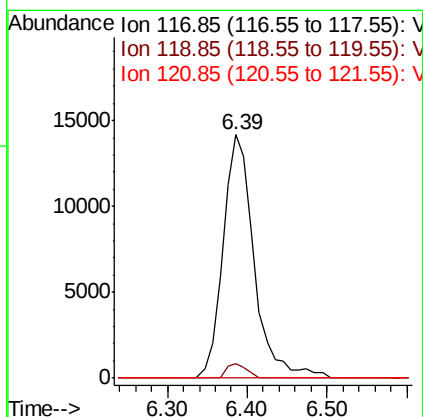
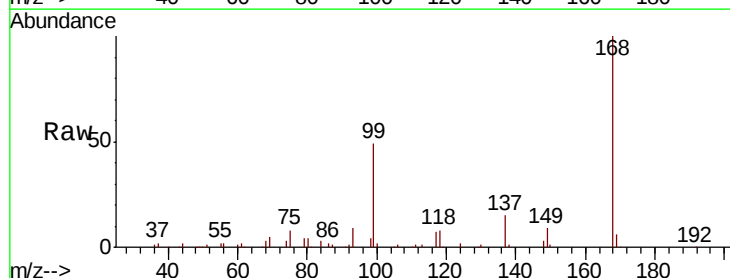
Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE-A

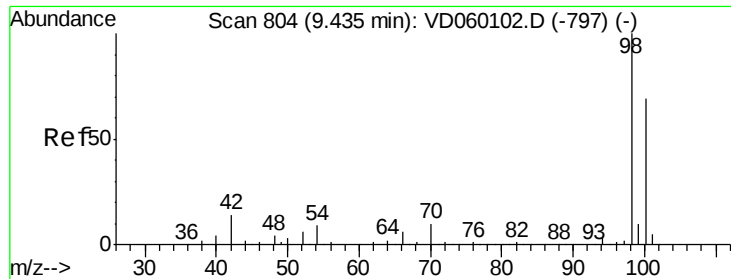
Tgt Ion: 43 Resp: 5498
Ion Ratio Lower Upper
43 100
61 30.1 10.5 15.7#
70 0.0 6.3 9.5#



#38
Carbon Tetrachloride
Concen: 8.202 ug/l
RT: 6.39 min Scan# 494
Delta R.T. -0.09 min
Lab File: VD060140.D
Acq: 5 Oct 2018 16:38

Tgt Ion: 117 Resp: 38743
Ion Ratio Lower Upper
117 100
119 6.1 77.8 116.6#
121 0.0 24.8 37.2#

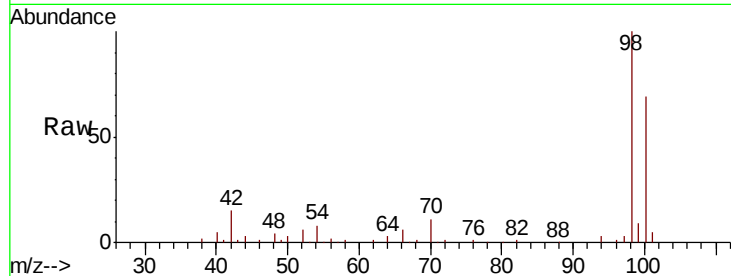




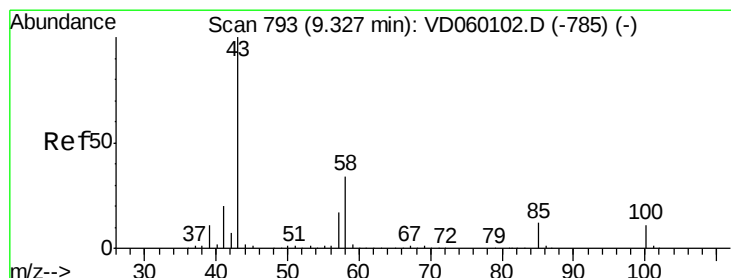
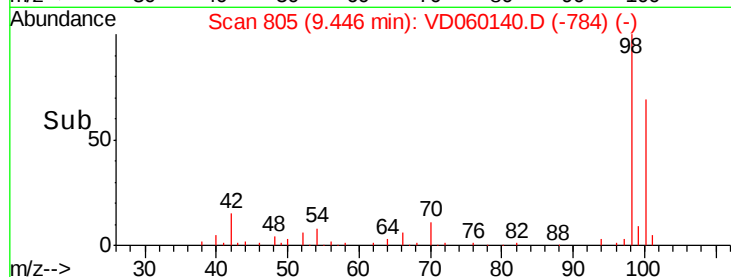
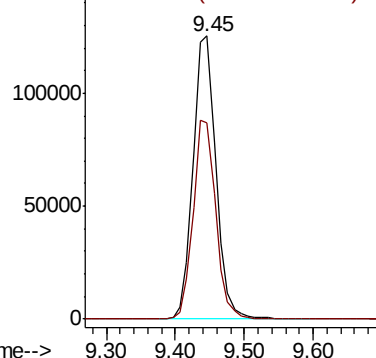
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 805
Delta R.T. 0.01 min
Lab File: VD060140.D
Acq: 5 Oct 2018 16:38

Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE-A

Tgt Ion: 98 Resp: 288842
Ion Ratio Lower Upper
98 100
100 69.3 55.4 83.0

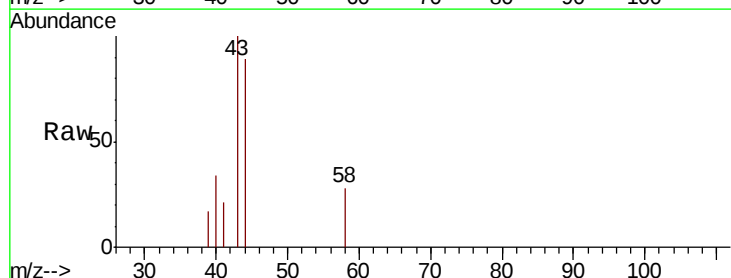


Abundance Ion 98.05 (97.75 to 98.75): VD060140.D (-797) (-)
Ion 100.05 (99.75 to 100.75): VD060140.D (-797) (-)

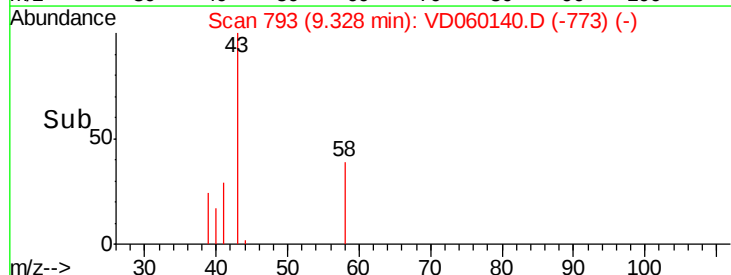
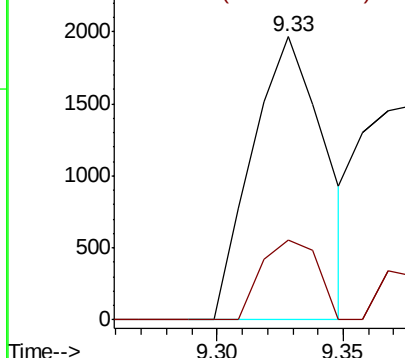


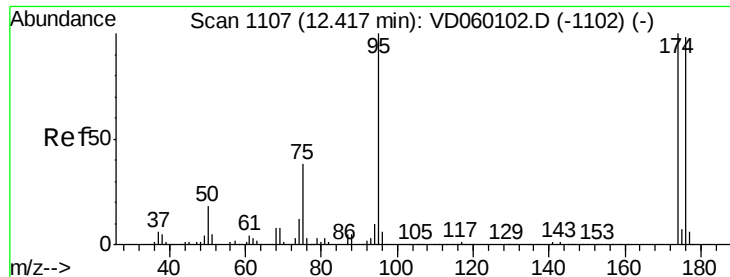
#51
4-Methyl-2-Pentanone
Concen: 1.376 ug/l
RT: 9.33 min Scan# 793
Delta R.T. 0.00 min
Lab File: VD060140.D
Acq: 5 Oct 2018 16:38

Tgt Ion: 43 Resp: 3943
Ion Ratio Lower Upper
43 100
58 28.2 27.2 40.8



Abundance Ion 42.95 (42.65 to 43.65): VD060140.D (-773) (-)
Ion 57.95 (57.65 to 58.65): VD060140.D (-773) (-)





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VD060140.D

Acq: 5 Oct 2018 16:38

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE-A

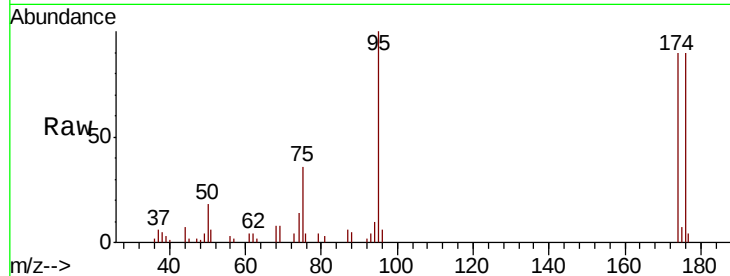
Tgt Ion: 95 Resp: 35690

Ion Ratio Lower Upper

95 100

174 90.2 0.0 200.2

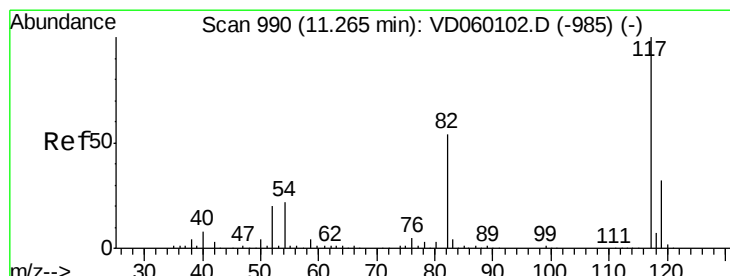
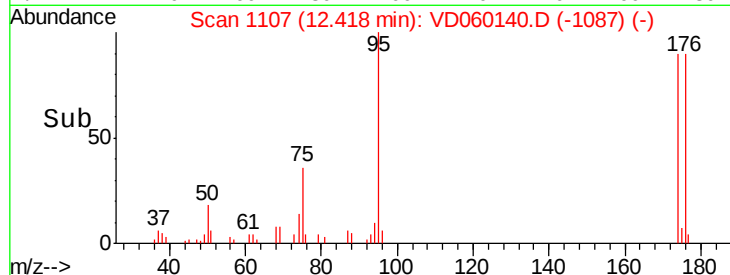
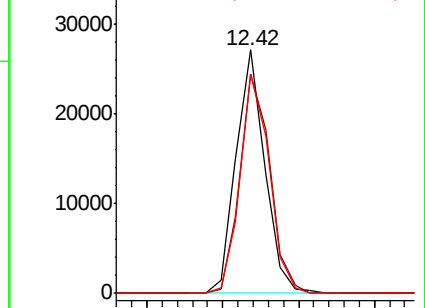
176 90.0 0.0 195.6



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: 11.28 min Scan# 991

Delta R.T. 0.01 min

Lab File: VD060140.D

Acq: 5 Oct 2018 16:38

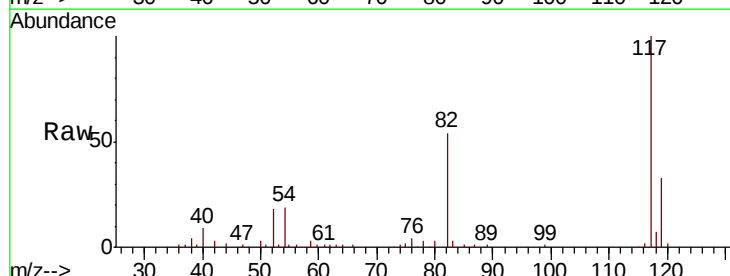
Tgt Ion: 117 Resp: 167542

Ion Ratio Lower Upper

117 100

82 54.2 43.4 65.2

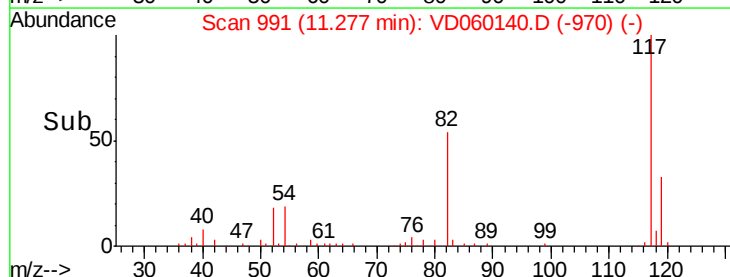
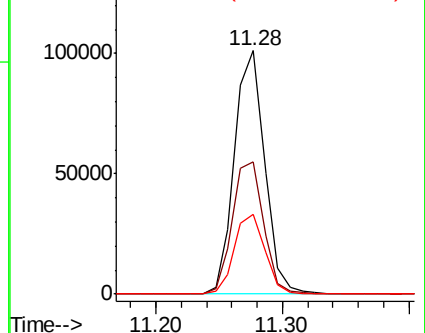
119 32.8 26.0 39.0

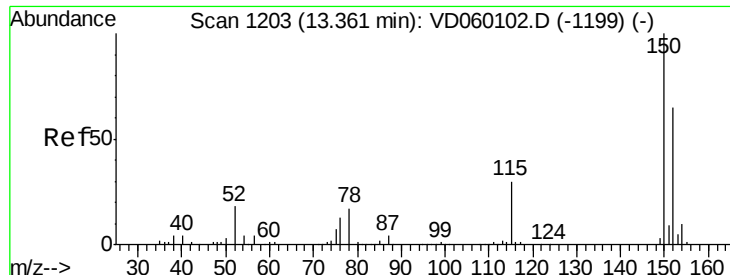


Abundance Ion 116.95 (116.65 to 117.65): V

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: 13.36 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD060140.D

Acq: 5 Oct 2018 16:38

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE-A

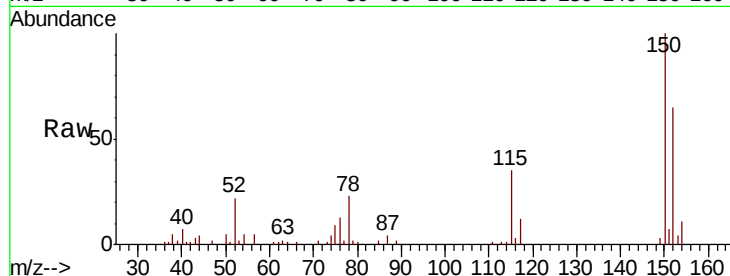
Tgt Ion:152 Resp: 30324

Ion Ratio Lower Upper

152 100

115 53.9 27.1 81.2

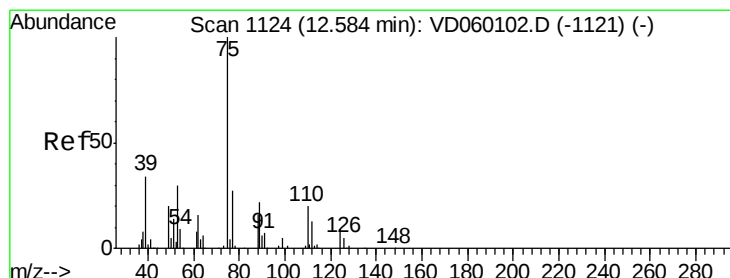
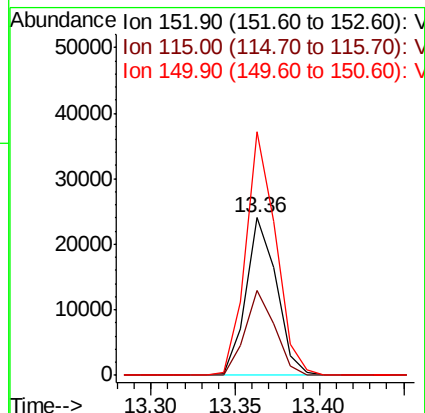
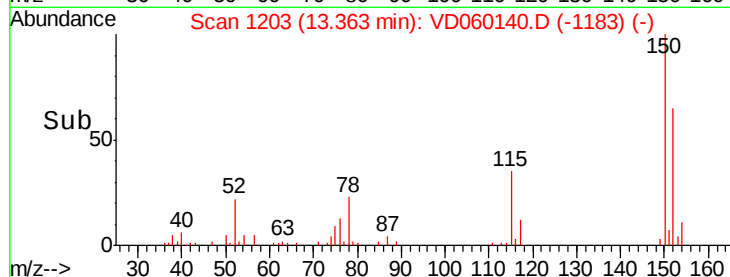
150 154.3 0.0 311.8



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



#76

1,2,3-Trichloropropane

Concen: 2.917 ug/l

RT: 12.56 min Scan# 1121

Delta R.T. -0.03 min

Lab File: VD060140.D

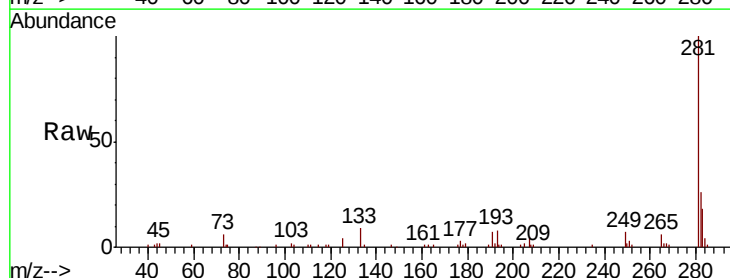
Acq: 5 Oct 2018 16:38

Tgt Ion: 75 Resp: 1274

Ion Ratio Lower Upper

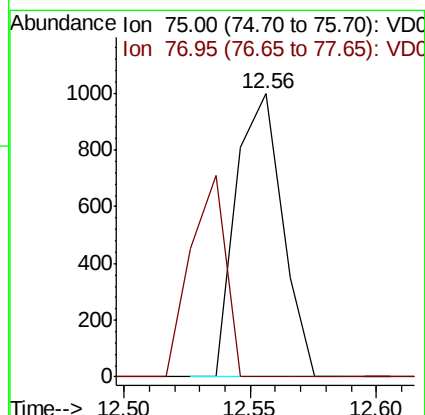
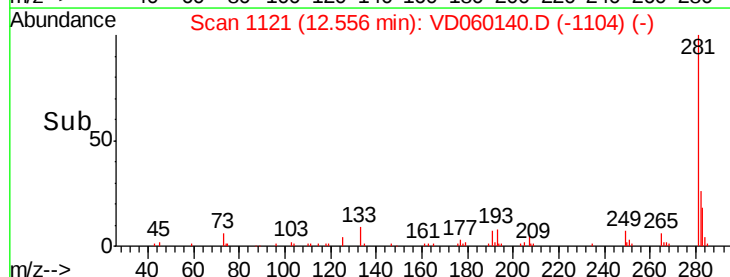
75 100

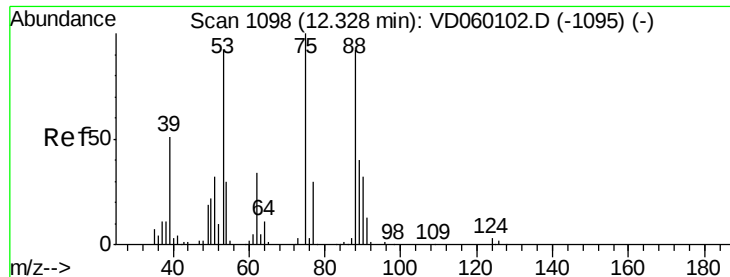
77 0.0 16.3 48.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

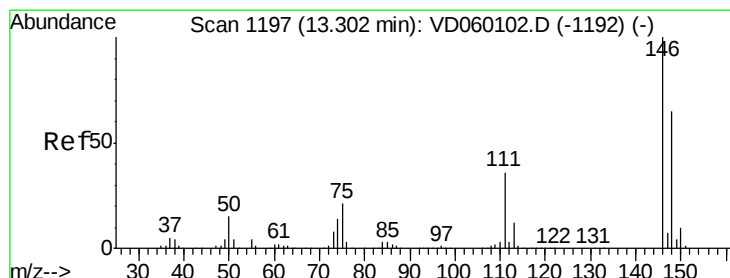
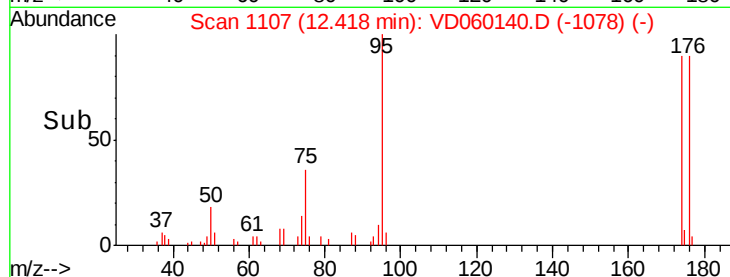
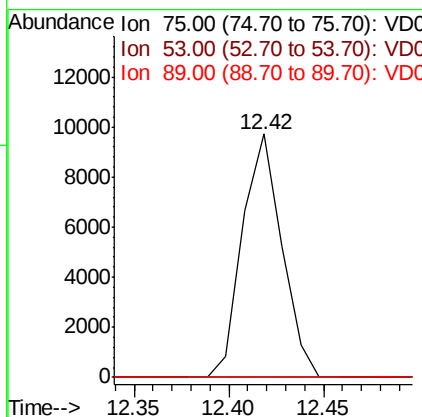
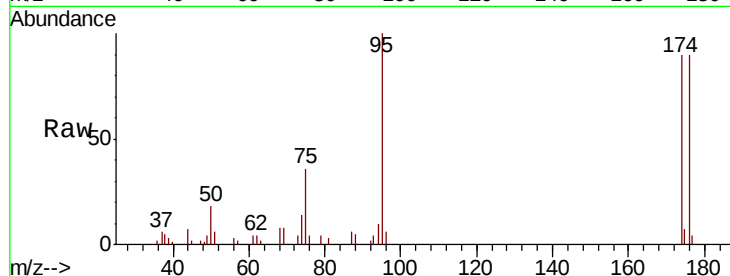




#81
trans-1,4-Dichloro-2-butene
Concen: 114.377 ug/l
RT: 12.42 min Scan# 1107
Delta R.T. 0.09 min
Lab File: VD060140.D
Acq: 5 Oct 2018 16:38

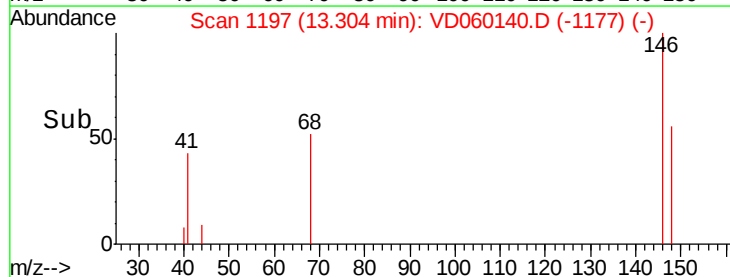
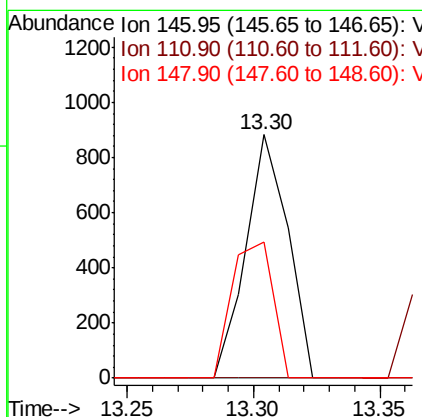
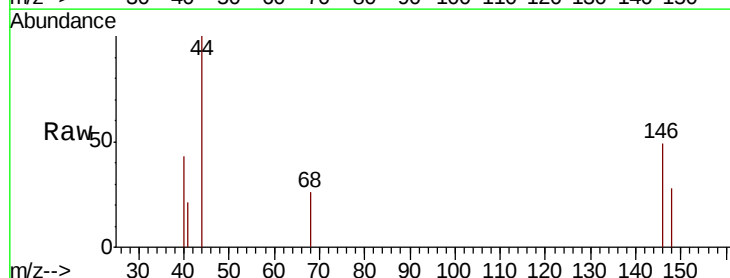
Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE-A

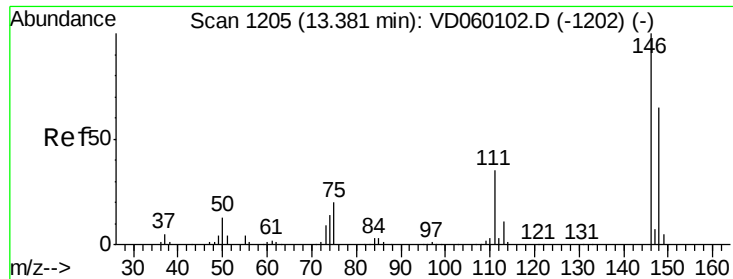
Tgt Ion: 75 Resp: 14035
Ion Ratio Lower Upper
75 100
53 0.0 73.0 109.6#
89 0.0 32.0 48.0#



#87
1,3-Dichlorobenzene
Concen: 1.010 ug/l
RT: 13.30 min Scan# 1197
Delta R.T. 0.00 min
Lab File: VD060140.D
Acq: 5 Oct 2018 16:38

Tgt Ion: 146 Resp: 1023
Ion Ratio Lower Upper
146 100
111 0.0 18.1 54.3#
148 55.9 32.3 96.9

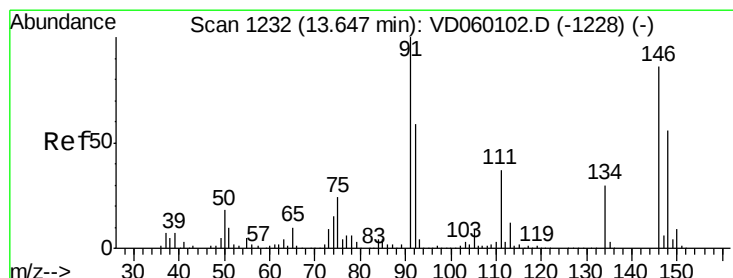
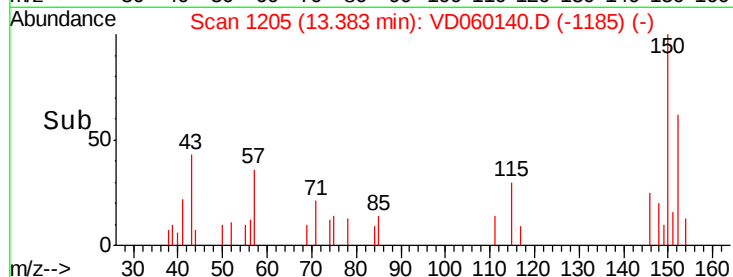
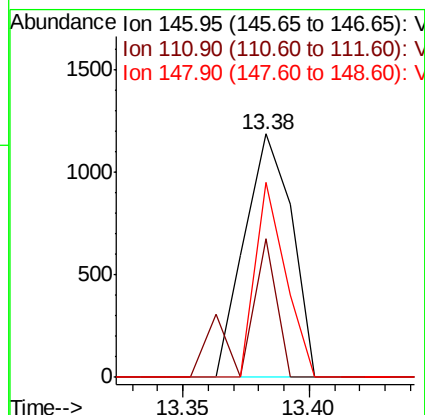
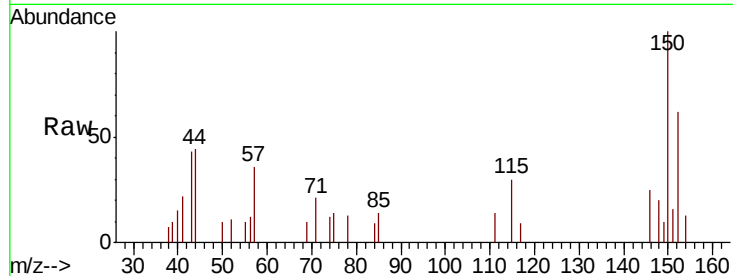




#88
 1,4-Dichlorobenzene
 Concen: 1.524 ug/l
 RT: 13.38 min Scan# 1205
 Delta R.T. 0.00 min
 Lab File: VD060140.D
 Acq: 5 Oct 2018 16:38

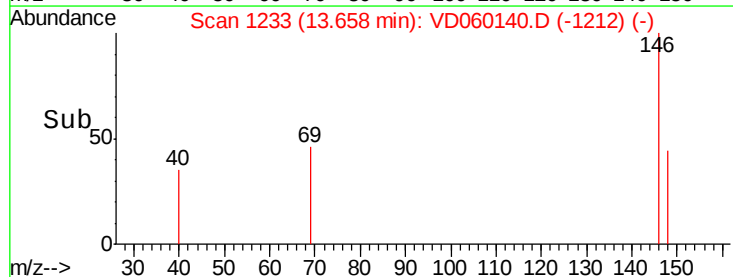
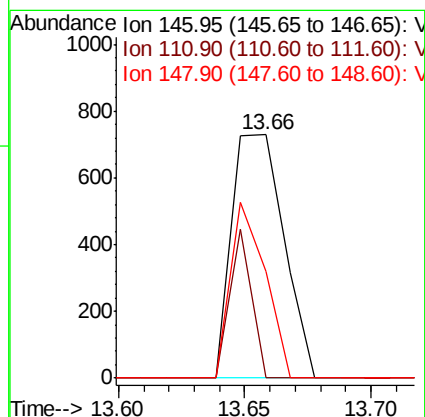
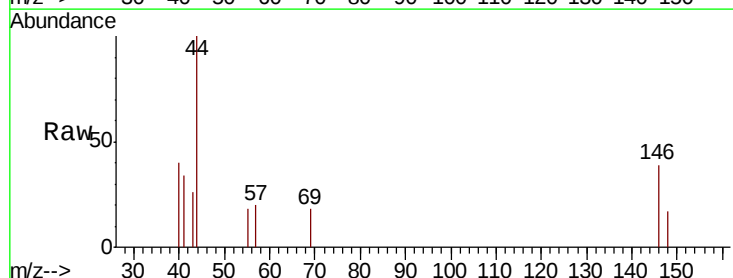
Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE-A

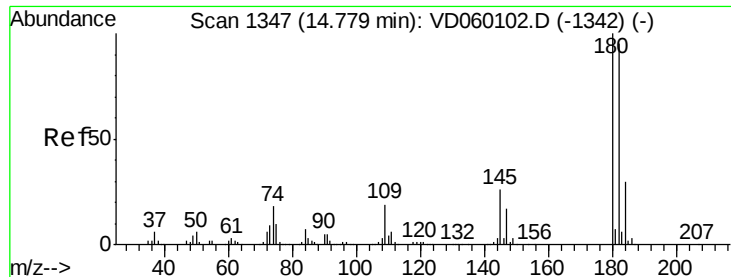
Tgt Ion:146 Resp: 1550
 Ion Ratio Lower Upper
 146 100
 111 56.8 17.8 53.3#
 148 80.1 32.4 97.2



#91
 1,2-Dichlorobenzene
 Concen: 1.227 ug/l
 RT: 13.66 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD060140.D
 Acq: 5 Oct 2018 16:38

Tgt Ion:146 Resp: 1045
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.4 64.3#
 148 43.8 32.2 96.6

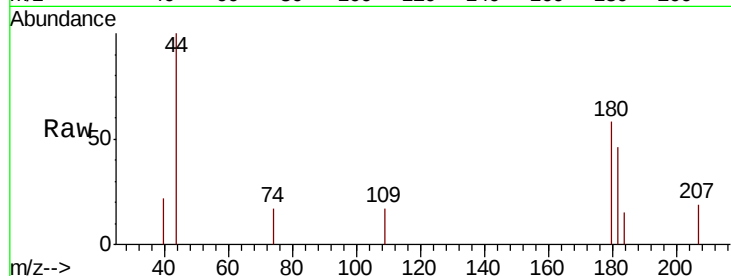




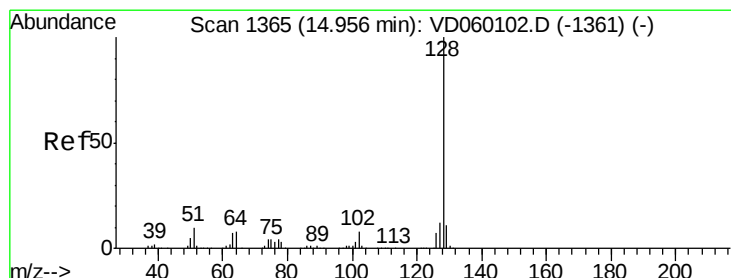
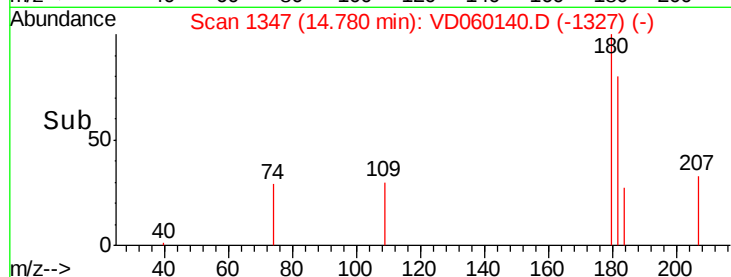
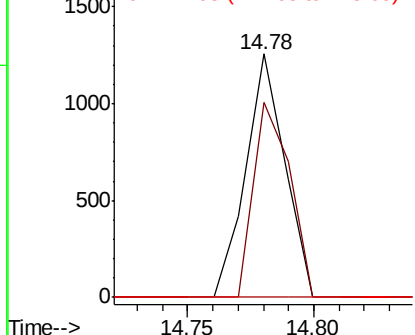
#93
 1,2,4-Trichlorobenzene
 Concen: 1.869 ug/l
 RT: 14.78 min Scan# 1347
 Delta R.T. 0.00 min
 Lab File: VD060140.D
 Acq: 5 Oct 2018 16:38

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE-A

Tgt Ion:180 Resp: 1351
 Ion Ratio Lower Upper
 180 100
 182 80.1 47.3 141.8
 145 0.0 13.0 38.9#

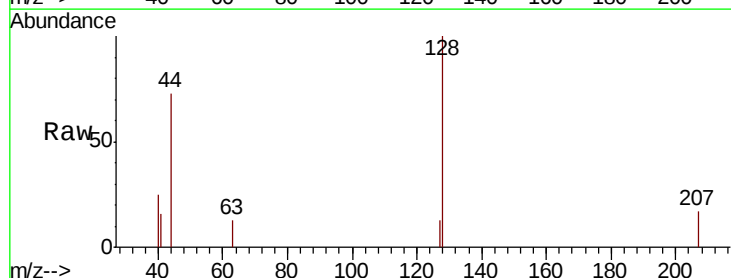


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

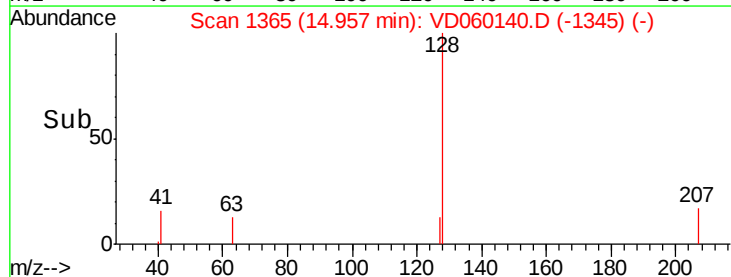
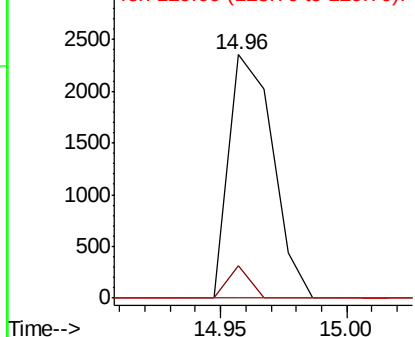


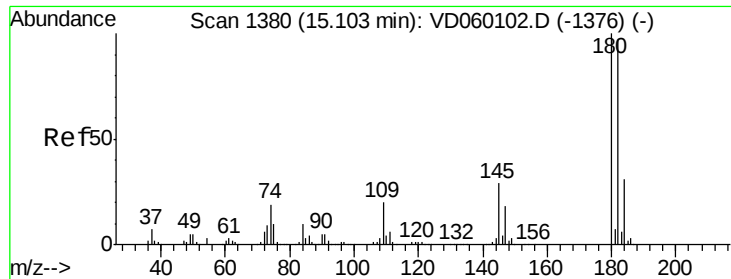
#95
 Naphthalene
 Concen: 2.659 ug/l
 RT: 14.96 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VD060140.D
 Acq: 5 Oct 2018 16:38

Tgt Ion:128 Resp: 2849
 Ion Ratio Lower Upper
 128 100
 127 13.4 9.9 14.9
 129 0.0 8.8 13.2#



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

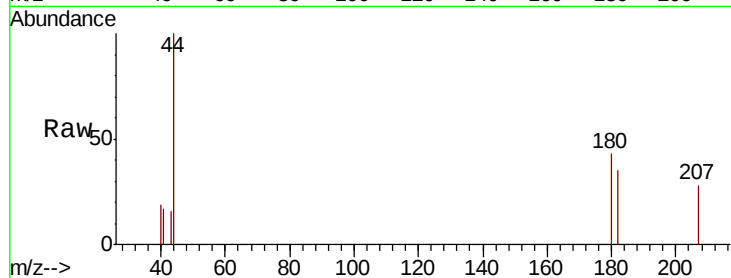




#96
 1,2,3-Trichlorobenzene
 Concen: 1.426 ug/l
 RT: 15.10 min Scan# 1380
 Delta R.T. 0.00 min
 Lab File: VD060140.D
 Acq: 5 Oct 2018 16:38

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE-A

Tgt Ion	Ratio	Lower	Upper
180	100		
182	83.1	48.4	145.0
145	0.0	14.5	43.6



Abundance

Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

