

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031219\
 Data File : VD061024.D
 Acq On : 12 Mar 2019 15:14
 Operator : VA/AP
 Sample : K1823-02RE
 Misc : 2.38g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE-1RE

Quant Time: Mar 13 04:08:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	452193	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	710677	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	423230	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	98967	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	180052	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
35) Dibromofluoromethane	6.92	113	314475	59.63	ug/l	0.00
Spiked Amount			Recovery	=	119.26%	
50) Toluene-d8	10.40	98	575710	43.47	ug/l	0.00
Spiked Amount			Recovery	=	86.94%	
62) 4-Bromofluorobenzene	13.56	95	133761	26.03	ug/l	0.00
Spiked Amount			Recovery	=	52.06%	

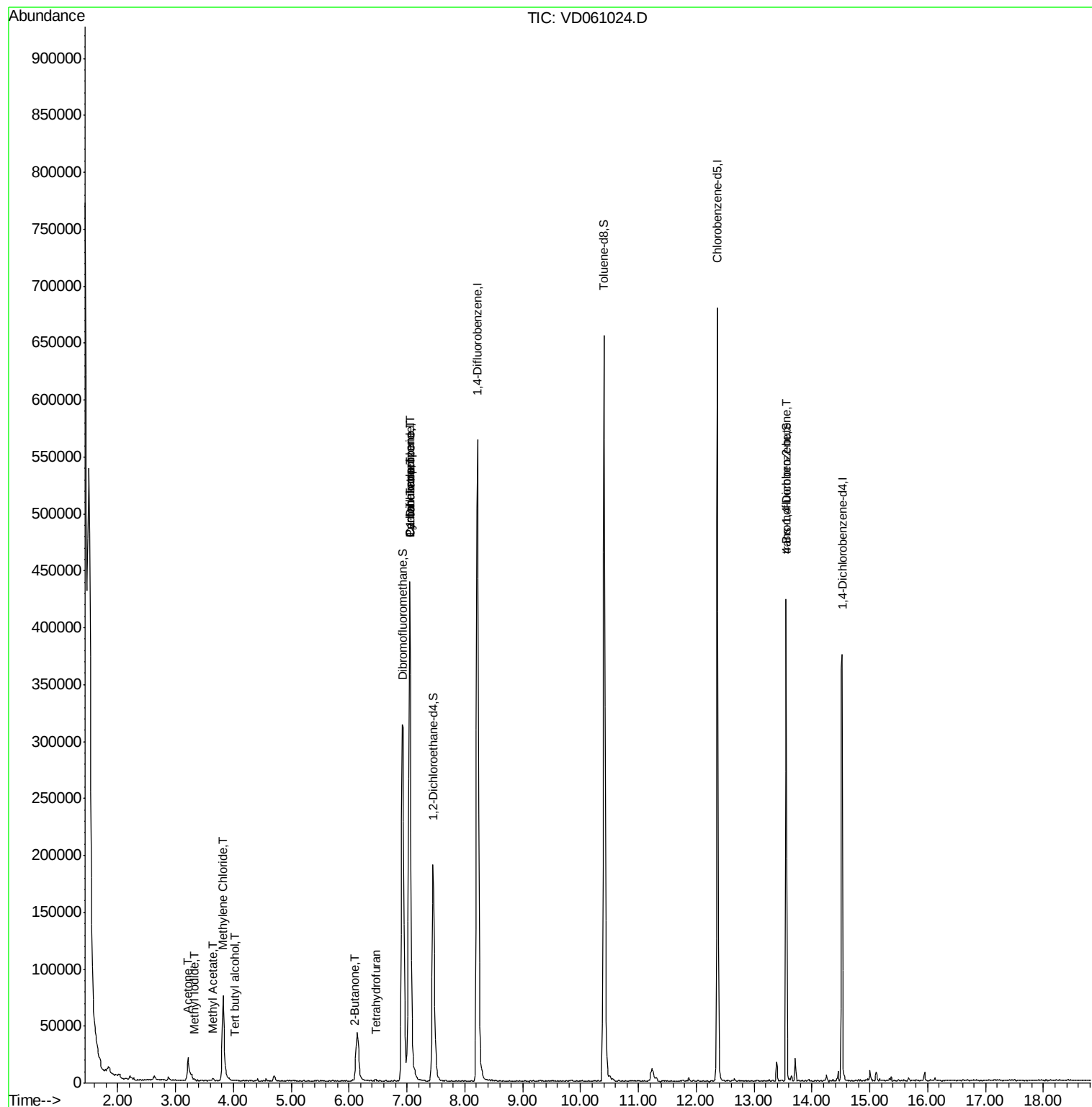
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	198	Below Cal	#	8
10) Methyl Iodide	3.34	142	776	3.030	ug/l #	39
11) Tert butyl alcohol	4.04	59	697	2.909	ug/l #	75
16) Acetone	3.22	43	39537	36.733	ug/l	96
18) Methyl Acetate	3.64	43	3355	1.584	ug/l #	59
20) Methylene Chloride	3.82	84	54280	7.054	ug/l	93
25) 2-Butanone	6.09	43	2244	1.837	ug/l #	55
29) Tetrahydrofuran	6.46	42	1095	1.651	ug/l #	48
31) Cyclohexane	7.04	56	7118	1.069	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	33129	5.408	ug/l #	47
38) Carbon Tetrachloride	7.05	117	44693	6.623	ug/l #	15
81) trans-1,4-Dichloro-2-buten	13.56	75	48870	116.421	ug/l #	17

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

Instrument :

MSVOA_D

ClientSampleId :

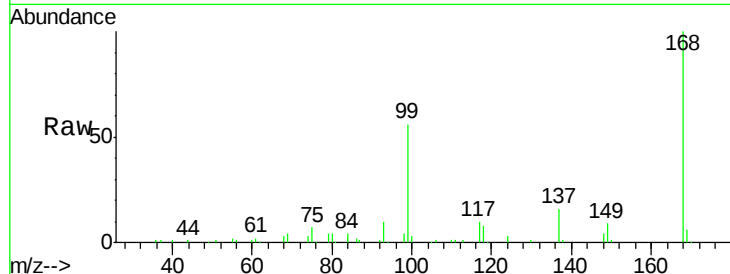
STOCK-PILE-1RE

Tot Ion:168 Resp: 452193

Ion Ratio Lower Upper

168 100

99 56.4 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.05

150000

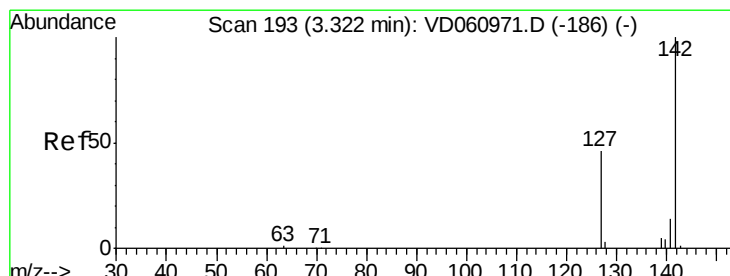
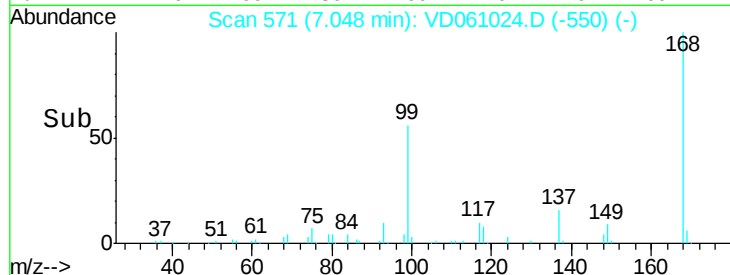
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#10

Methyl Iodide

Concen: 3.030 ug/l

RT: 3.34 min Scan# 194

Delta R.T. 0.02 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

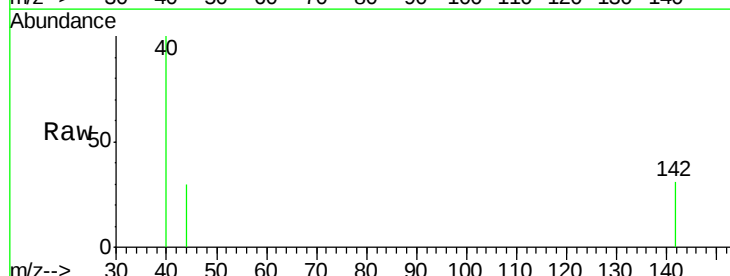
Tgt Ion:142 Resp: 776

Ion Ratio Lower Upper

142 100

127 0.0 36.8 55.2#

141 0.0 11.2 16.8#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.34

600

500

400

300

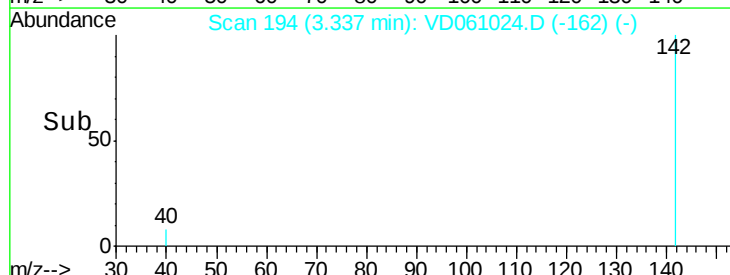
200

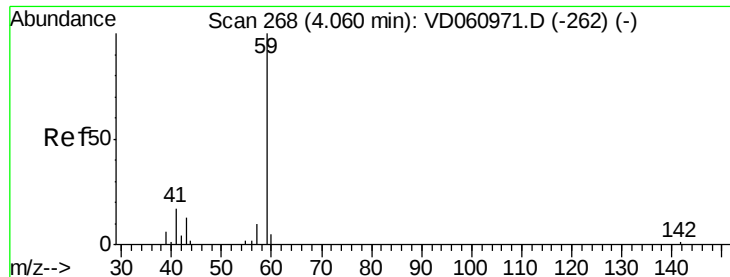
100

0

3.30 3.35

Time-->

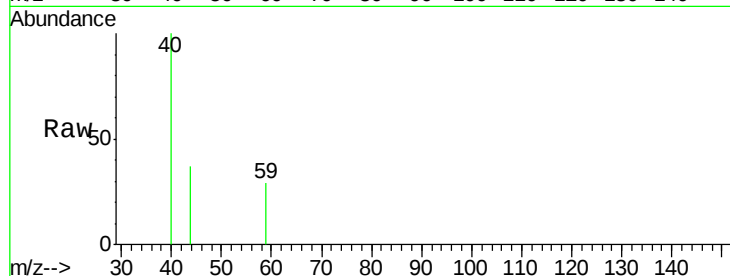




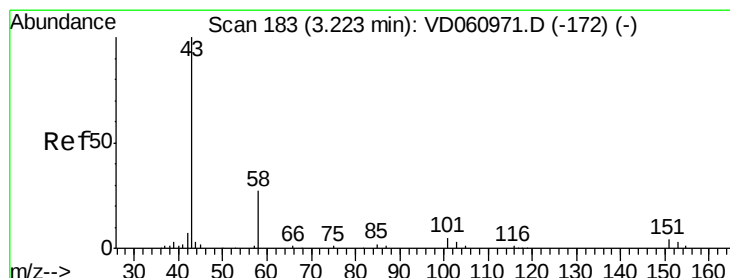
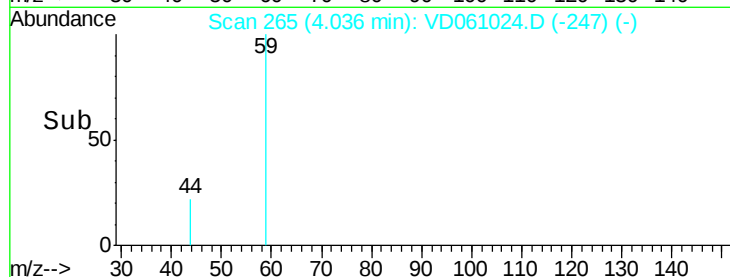
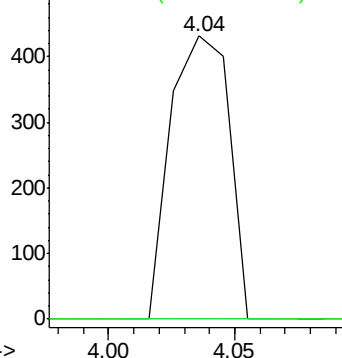
#11
Tert butyl alcohol
Concen: 2.909 ug/l
RT: 4.04 min Scan# 265
Delta R.T. -0.02 min
Lab File: VD061024.D
Acq: 12 Mar 2019 15:14

Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE-1RE

Tot Ion: 59 Resp: 697
Ion Ratio Lower Upper
59 100
57 0.0 7.1 10.7#

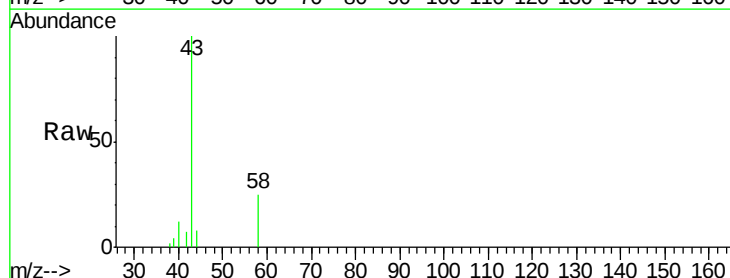


Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC

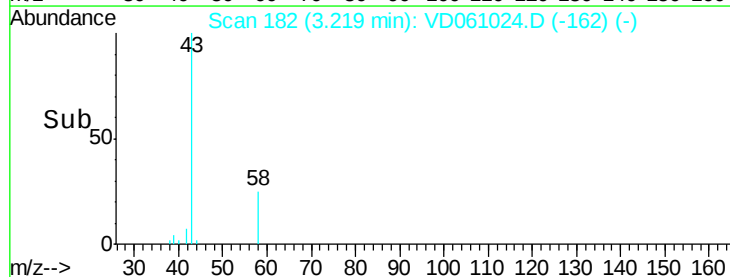
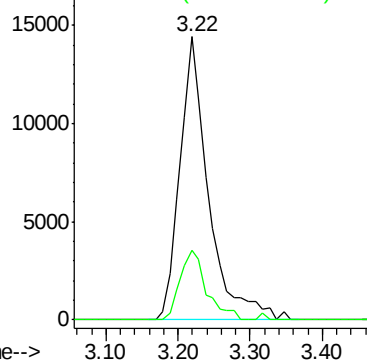


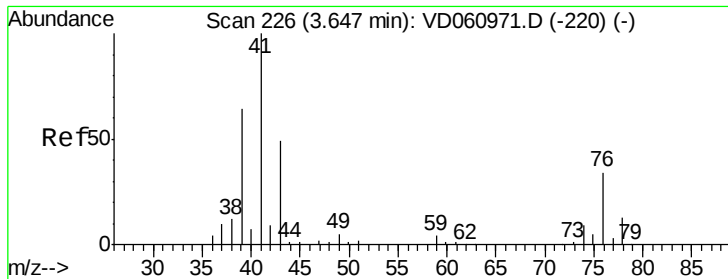
#16
Acetone
Concen: 36.733 ug/l
RT: 3.22 min Scan# 182
Delta R.T. -0.00 min
Lab File: VD061024.D
Acq: 12 Mar 2019 15:14

Tgt Ion: 43 Resp: 39537
Ion Ratio Lower Upper
43 100
58 24.7 21.6 32.4



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

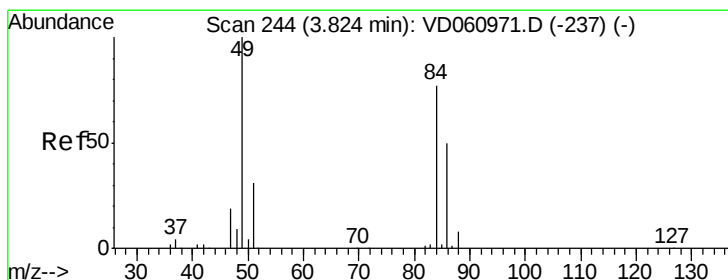
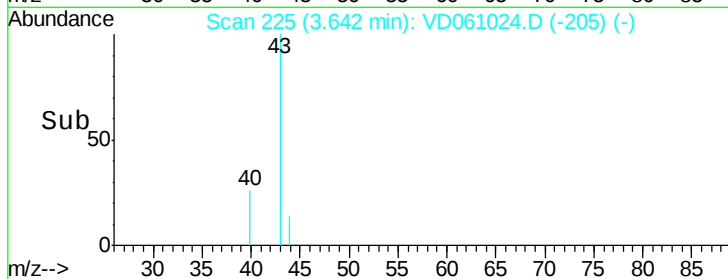
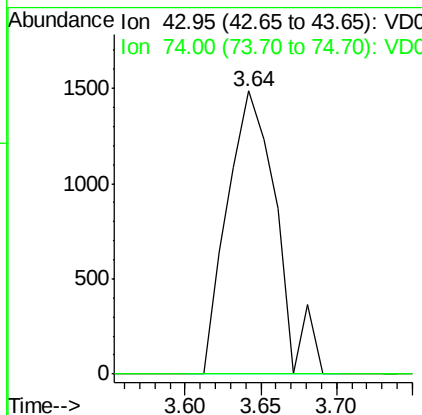
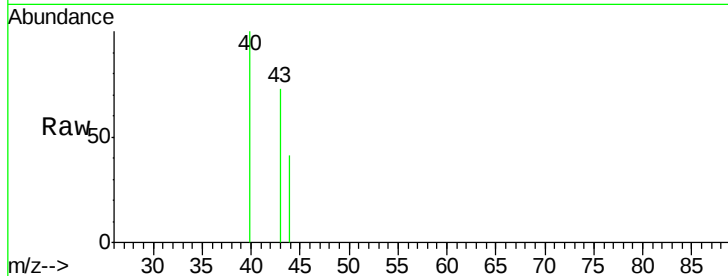




#18
Methyl Acetate
Concen: 1.584 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.00 min
Lab File: VD061024.D
Acq: 12 Mar 2019 15:14

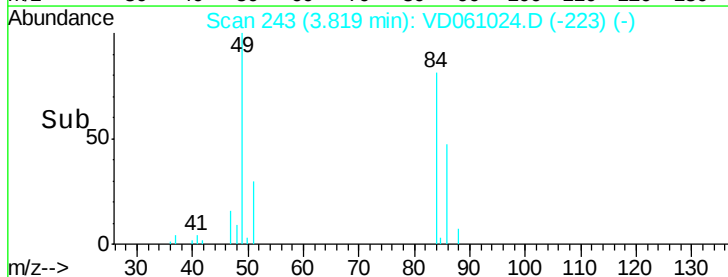
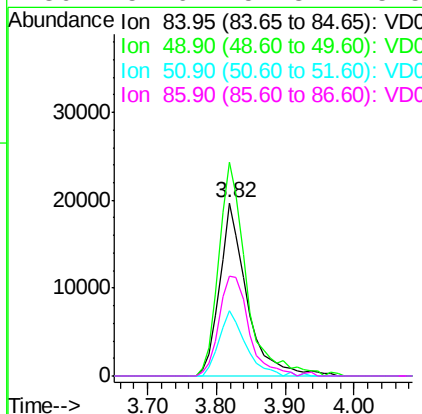
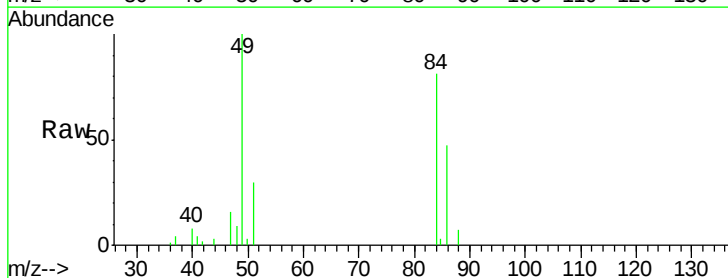
Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE-1RE

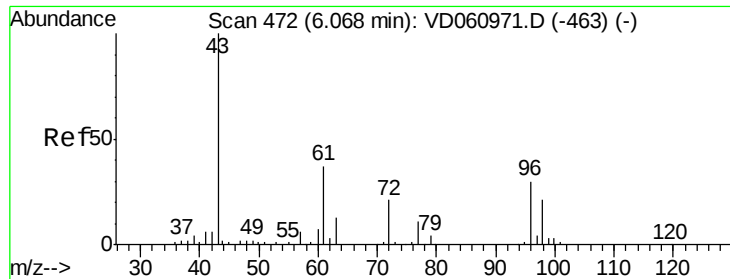
Tot Ion: 43 Resp: 3355
Ion Ratio Lower Upper
43 100
74 0.0 14.6 21.8#



#20
Methylene Chloride
Concen: 7.054 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD061024.D
Acq: 12 Mar 2019 15:14

Tgt Ion: 84 Resp: 54280
Ion Ratio Lower Upper
84 100
49 123.1 104.2 156.2
51 37.4 32.3 48.5
86 57.6 52.3 78.5





#25

2-Butanone

Concen: 1.837 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.02 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

Instrument :

MSVOA_D

ClientSampleId :

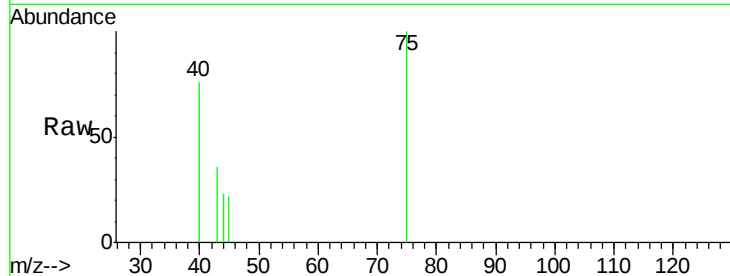
STOCK-PILE-1RE

Tot Ion: 43 Resp: 2244

Ion Ratio Lower Upper

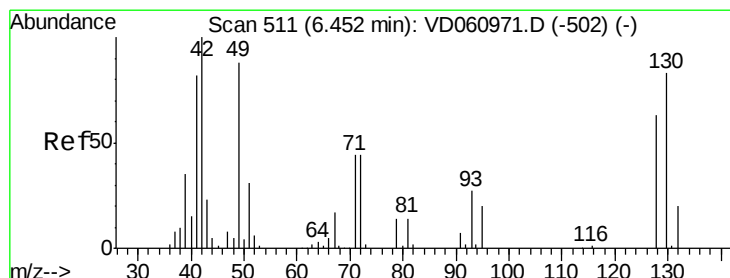
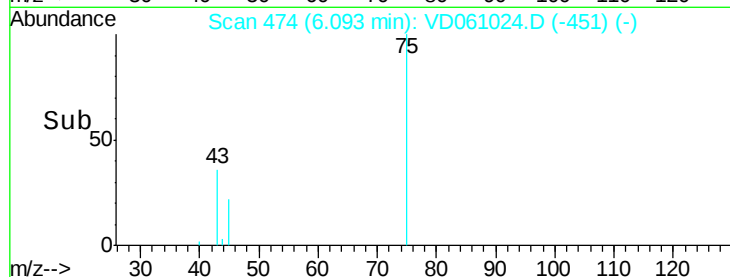
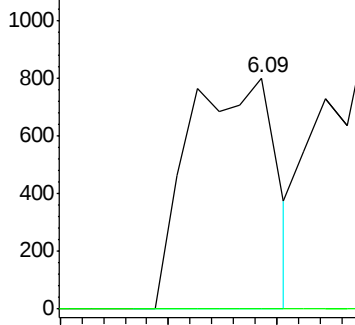
43 100

72 0.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.651 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

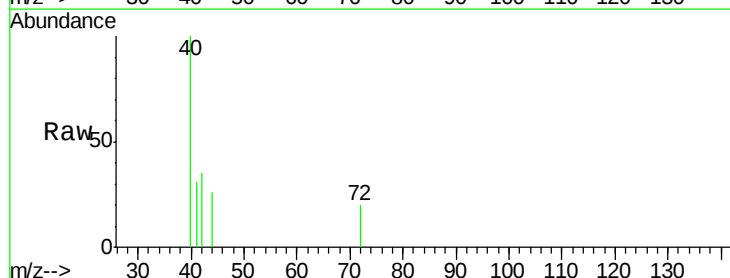
Tgt Ion: 42 Resp: 1095

Ion Ratio Lower Upper

42 100

72 18.4 34.5 51.7#

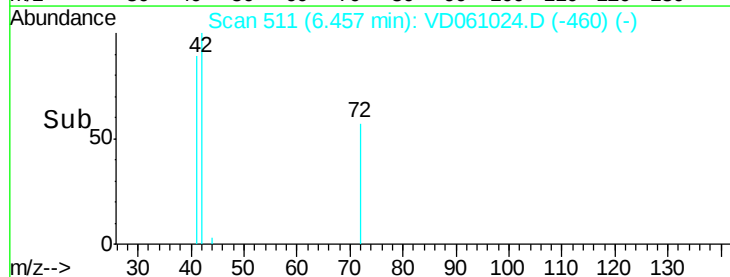
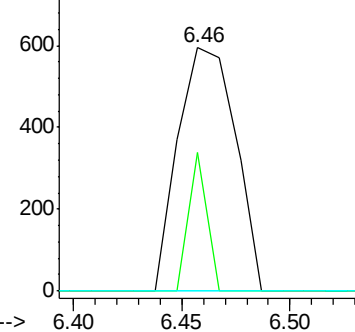
71 0.0 33.8 50.6#

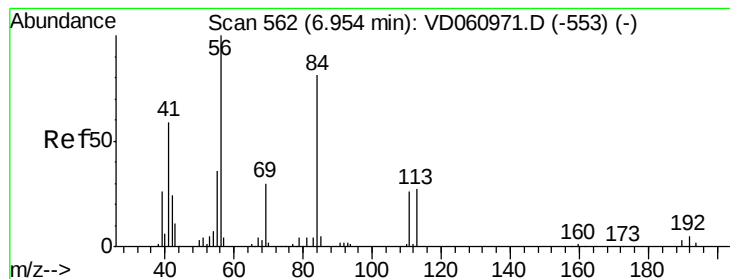


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cvclohexane

Concen: 1.069 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.08 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE-1RE

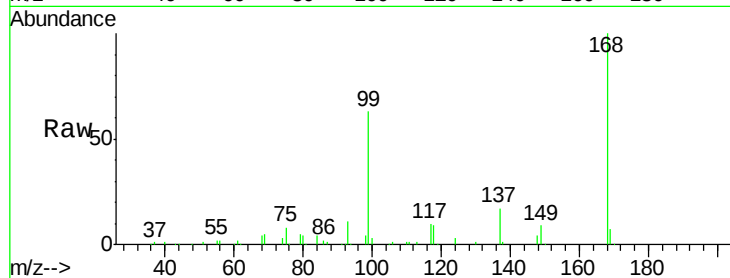
Tot Ion: 56 Resp: 7118

Ion Ratio Lower Upper

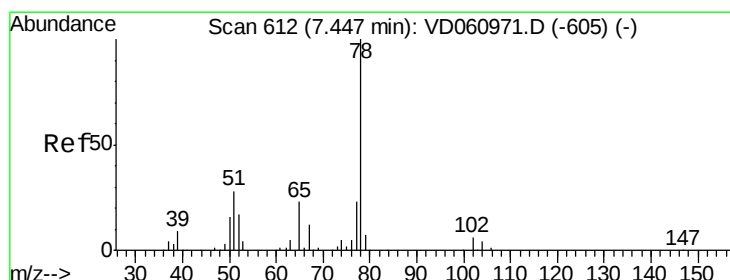
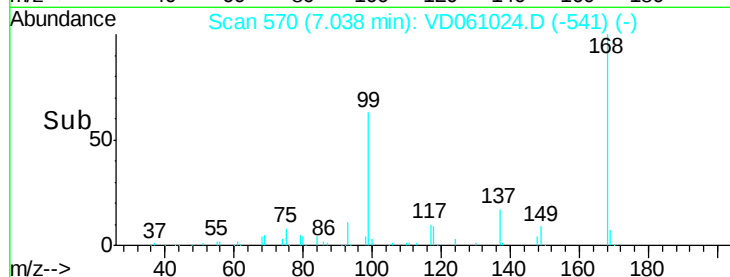
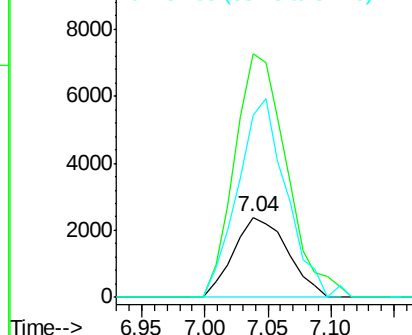
56 100

69 304.5 24.0 36.0#

84 228.3 65.8 98.6#



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: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD061024.D

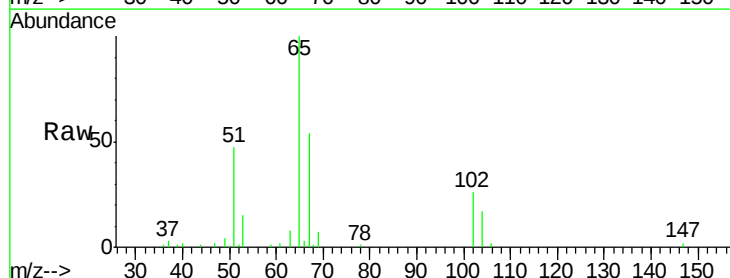
Acq: 12 Mar 2019 15:14

Tgt Ion: 65 Resp: 180052

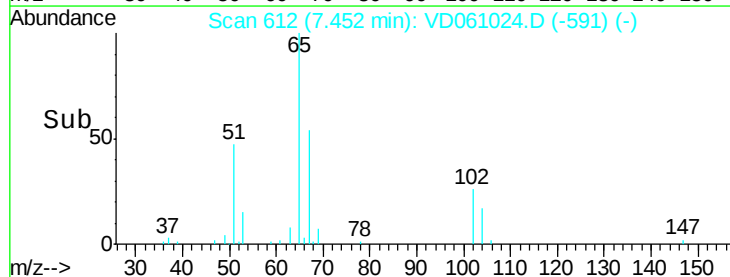
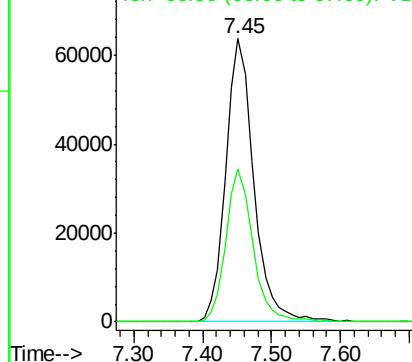
Ion Ratio Lower Upper

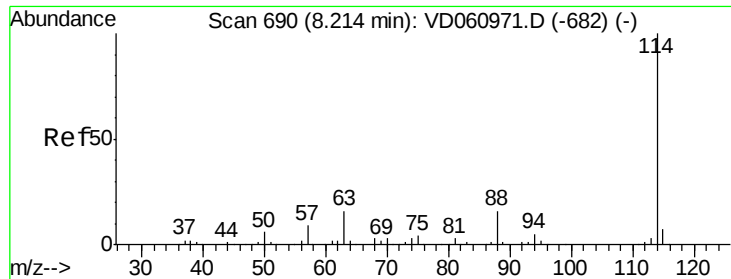
65 100

67 54.2 0.0 105.2



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: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

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STOCK-PILE-1RE

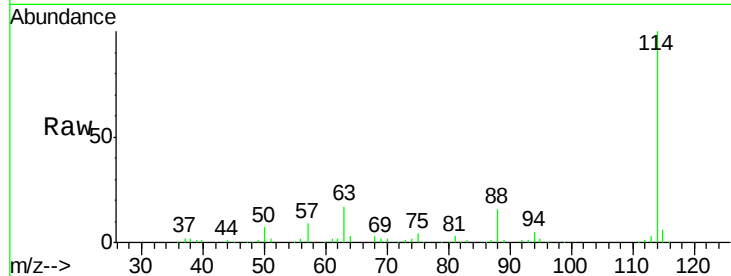
Tot Ion:114 Resp: 710677

Ion Ratio Lower Upper

114 100

63 16.7 0.0 31.4

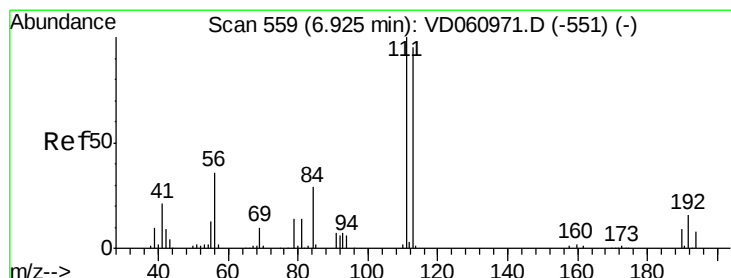
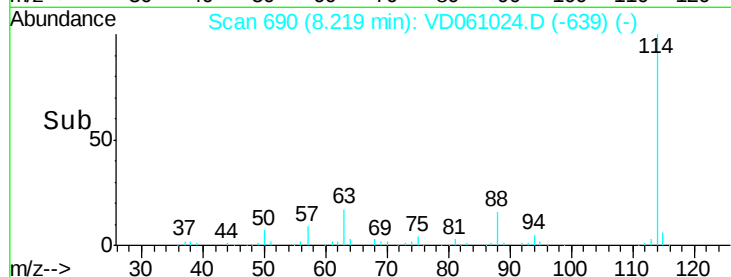
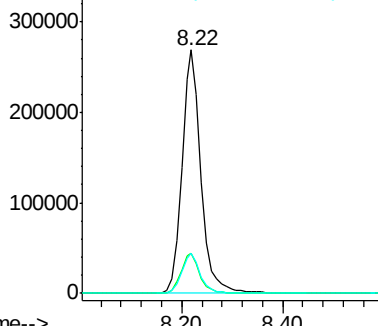
88 16.4 0.0 33.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.00 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

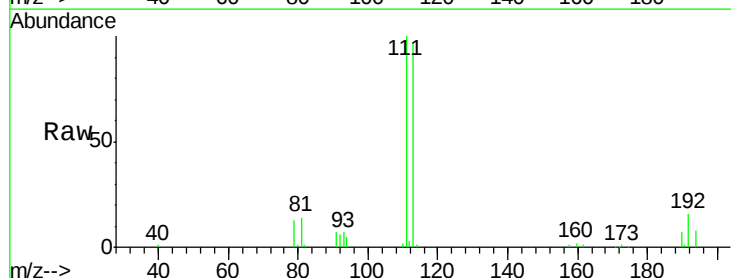
Tgt Ion:113 Resp: 314475

Ion Ratio Lower Upper

113 100

111 102.8 84.2 126.4

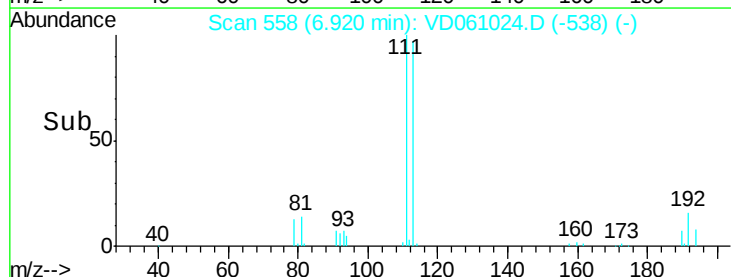
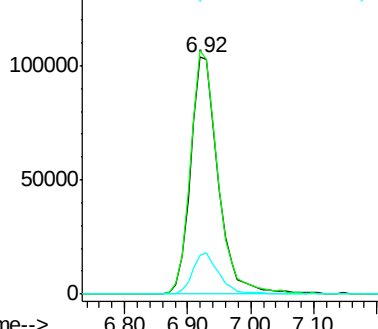
192 16.3 13.1 19.7

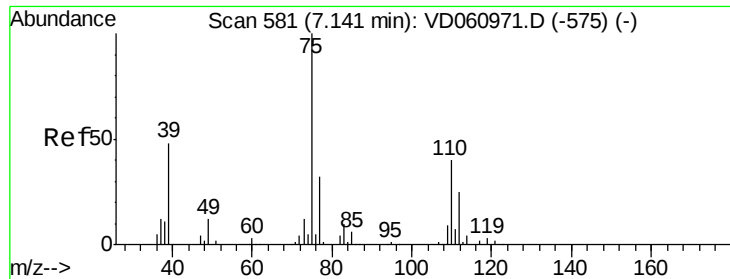


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.408 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

Instrument :

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ClientSampleId :

STOCK-PILE-1RE

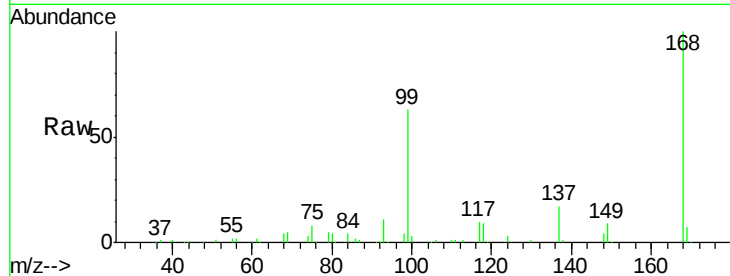
Tot Ion: 75 Resp: 33129

Ion Ratio Lower Upper

75 100

110 8.2 19.7 59.1#

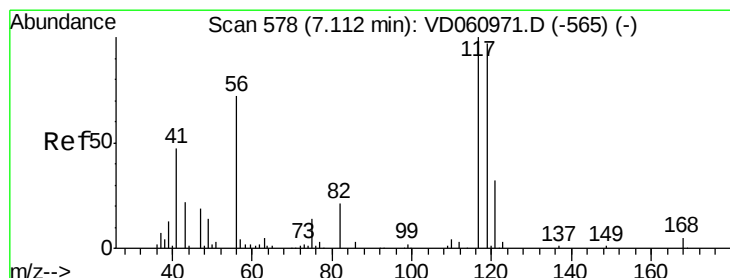
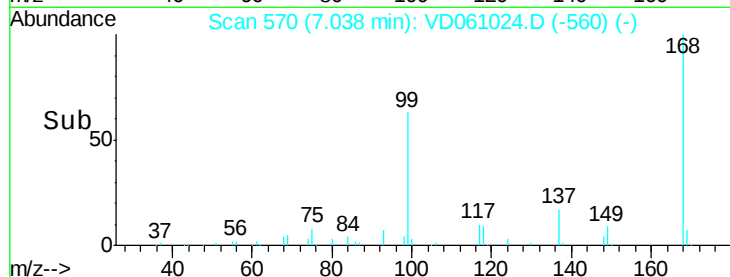
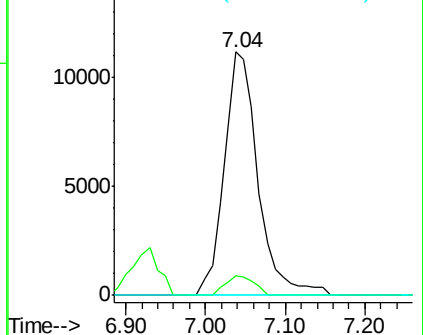
77 0.0 24.7 37.1#



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



#38

Carbon Tetrachloride

Concen: 6.623 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.06 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

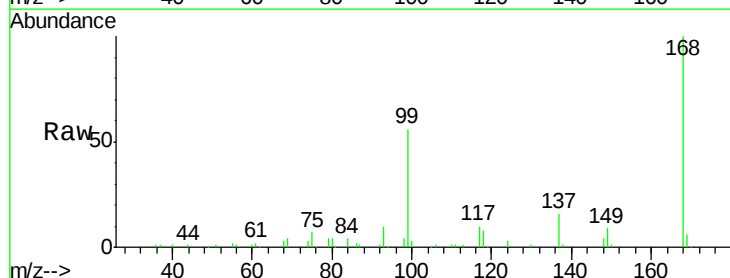
Tgt Ion: 117 Resp: 44693

Ion Ratio Lower Upper

117 100

119 4.4 77.8 116.8#

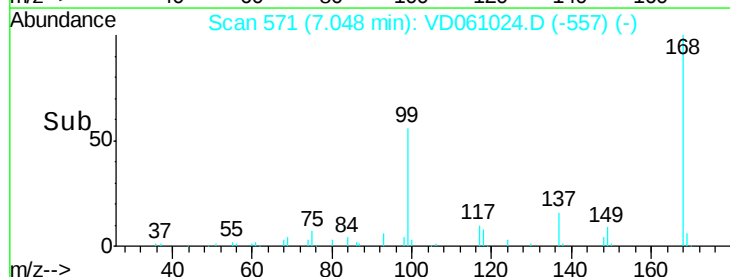
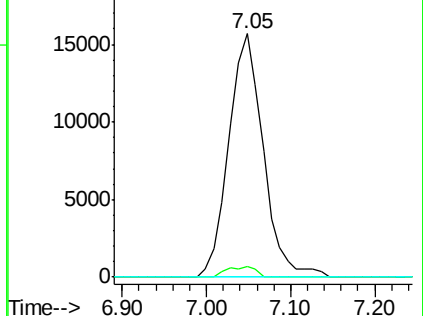
121 0.0 25.3 37.9#

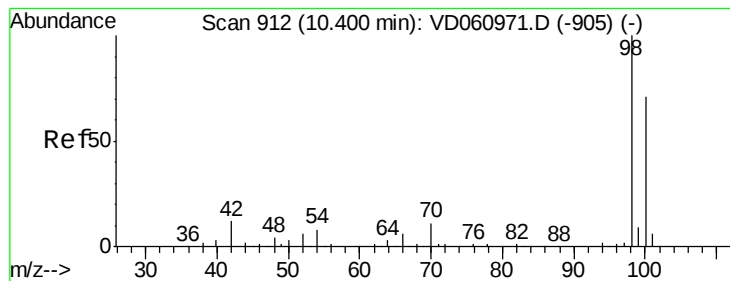


Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 118.85 (118.55 to 119.55): VDC

Ion 120.85 (120.55 to 121.55): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.01 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

Instrument :

MSVOA_D

ClientSampleId :

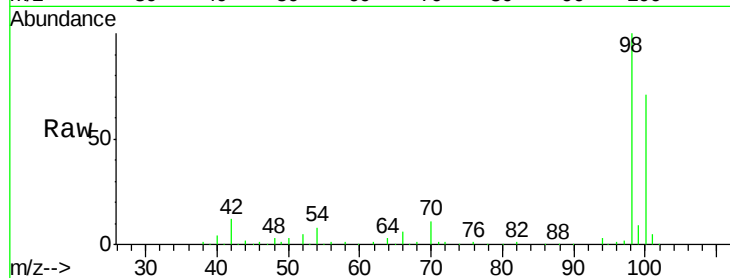
STOCK-PILE-1RE

Tot Ion: 98 Resp: 575710

Ion Ratio Lower Upper

98 100

100 71.4 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

10.40

250000

200000

150000

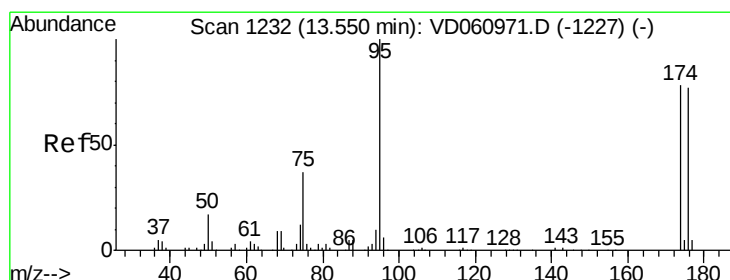
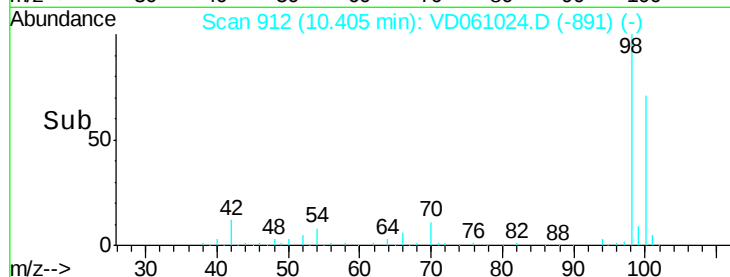
100000

50000

0

Time-->

10.30 10.40 10.50 10.60



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

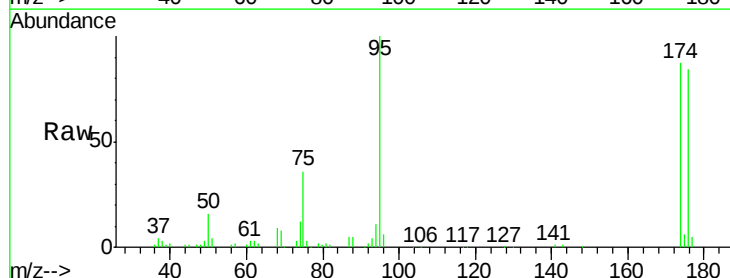
Tgt Ion: 95 Resp: 133761

Ion Ratio Lower Upper

95 100

174 86.8 0.0 155.6

176 84.1 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): VD060971.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD060971.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD060971.D (-1227) (-)

120000

100000

80000

60000

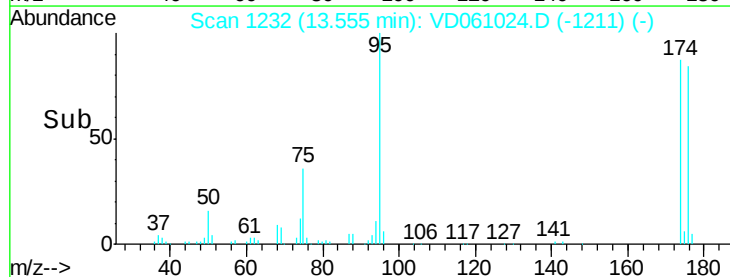
40000

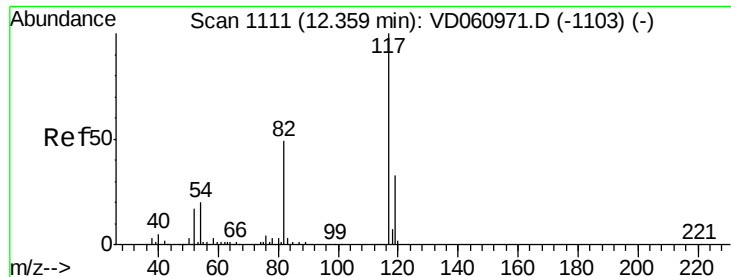
20000

0

Time-->

13.50 13.56 13.60

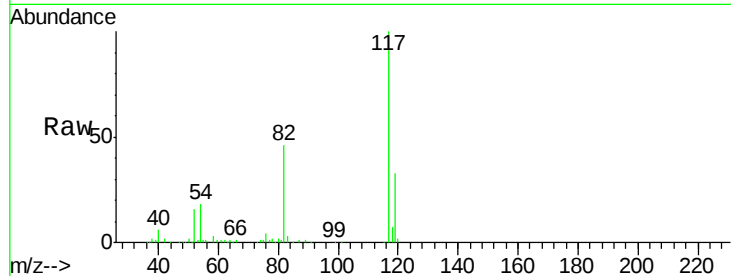




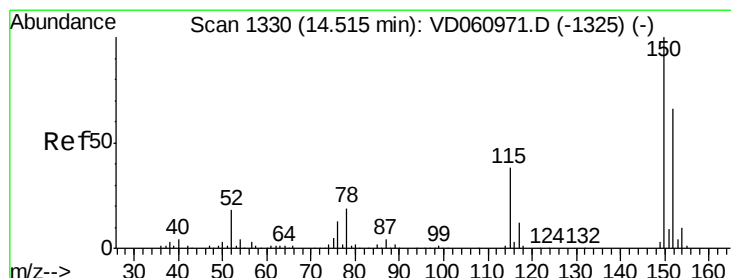
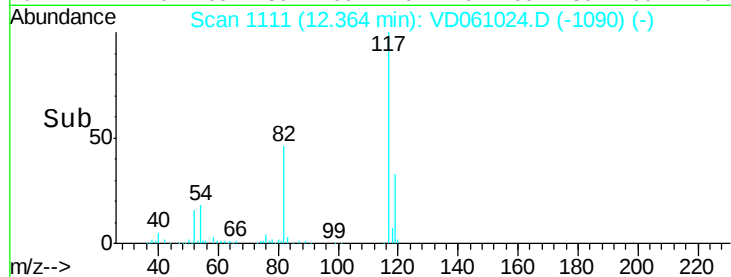
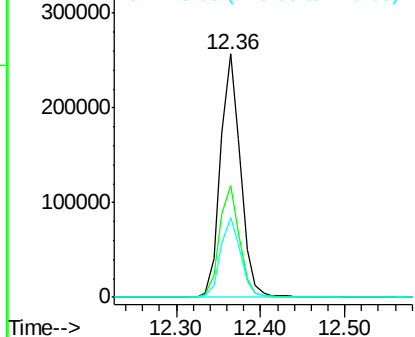
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD061024.D
Acq: 12 Mar 2019 15:14

Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE-1RE

Tot Ion:117 Resp: 423230
Ion Ratio Lower Upper
117 100
82 46.1 38.9 58.3
119 32.6 26.6 39.8

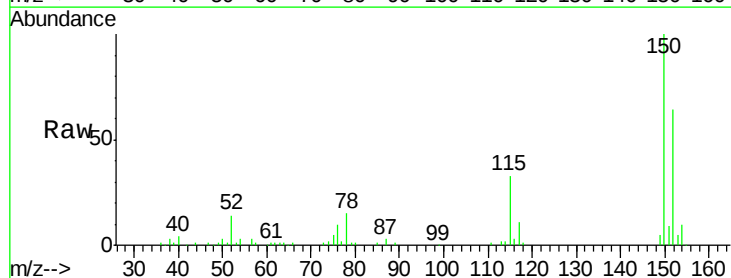


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

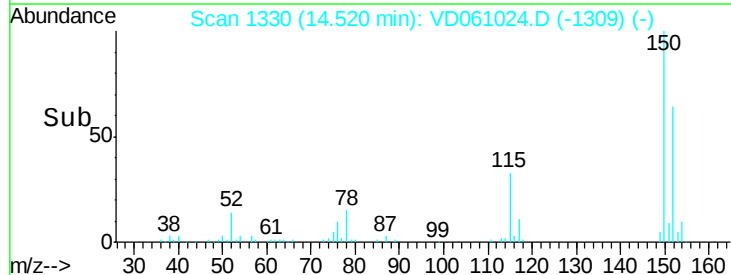
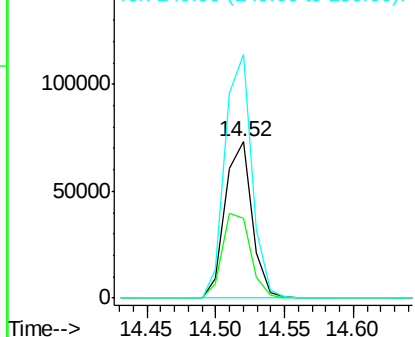


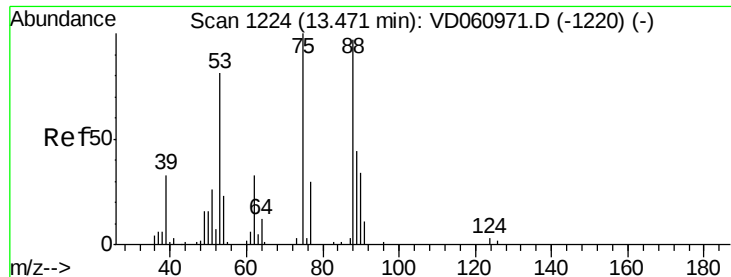
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD061024.D
Acq: 12 Mar 2019 15:14

Tgt Ion:152 Resp: 98967
Ion Ratio Lower Upper
152 100
115 51.3 28.6 85.9
150 155.7 0.0 310.6



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





#81

trans-1,4-Dichloro-2-butene

Concen: 116.421 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061024.D

Acq: 12 Mar 2019 15:14

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE-1RE

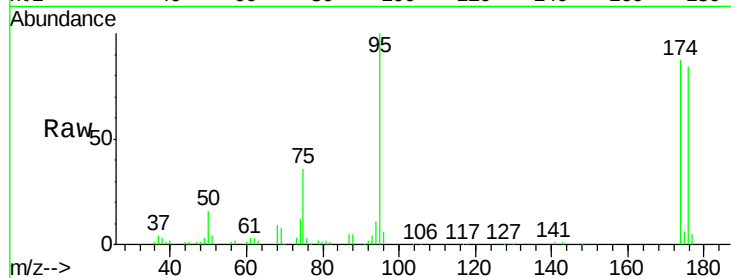
Tot Ion: 75 Resp: 48870

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



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

