

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030419\
 Data File : VD060921.D
 Acq On : 4 Mar 2019 14:08
 Operator : VA/AP
 Sample : K1672-02
 Misc : 6.53g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-033-A

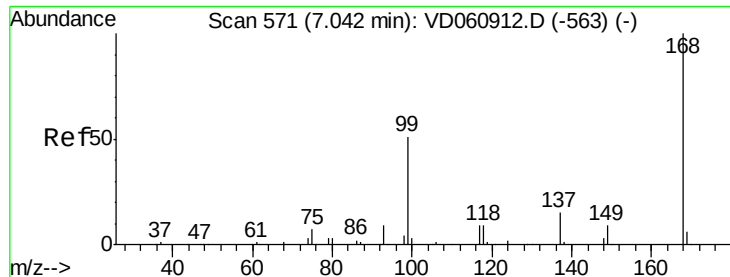
Quant Time: Mar 05 01:32:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030119S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 02 01:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	408970	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.24	114	795981	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	693097	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	274251	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.48	65	198913	58.83	ug/l	0.03
Spiked Amount			Recovery	=	117.66%	
35) Dibromofluoromethane	6.95	113	289975	45.44	ug/l	0.03
Spiked Amount			Recovery	=	90.88%	
50) Toluene-d8	10.43	98	692976	43.64	ug/l	0.03
Spiked Amount			Recovery	=	87.28%	
62) 4-Bromofluorobenzene	13.56	95	255379	42.56	ug/l	0.02
Spiked Amount			Recovery	=	85.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.19	94	799	1.331	ug/l #	13
10) Methyl Iodide	3.36	142	3297	5.118	ug/l #	85
11) Tert butyl alcohol	4.02	59	28246	112.095	ug/l #	77
16) Acetone	3.25	43	77083	68.285	ug/l	98
20) Methylene Chloride	3.85	84	42099	4.558	ug/l	96
25) 2-Butanone	6.18	43	10573	7.550	ug/l #	55
26) 2,2-Dichloropropane	6.17	77	10502	1.631	ug/l #	48
29) Tetrahydrofuran	6.49	42	2709	3.758	ug/l #	83
36) 1,1-Dichloropropene	7.07	75	28645	3.914	ug/l #	47
37) Ethyl Acetate	6.18	43	10573	2.810	ug/l #	1
38) Carbon Tetrachloride	7.07	117	37102	4.719	ug/l #	15
51) 4-Methyl-2-Pentanone	10.32	43	4085	1.279	ug/l	98
76) 1,2,3-Trichloropropane	13.56	75	87467	19.684	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	89489	68.047	ug/l #	20
89) n-Butylbenzene	14.79	91	9754	Below Cal	#	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.02 min

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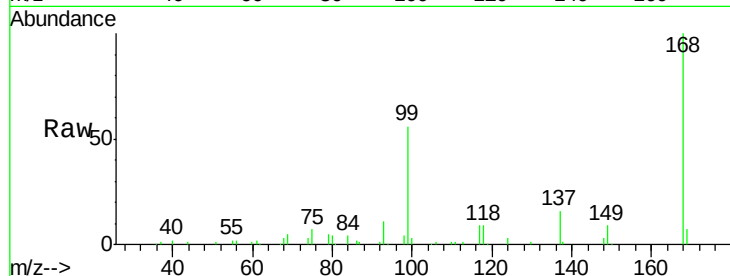
FK-GF-02-033-A

Tot Ion:168 Resp: 408970

Ion Ratio Lower Upper

168 100

99 56.2 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.07

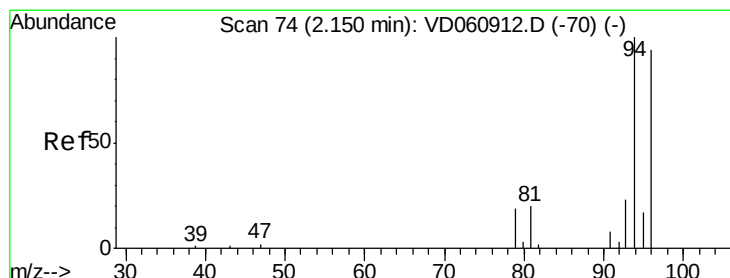
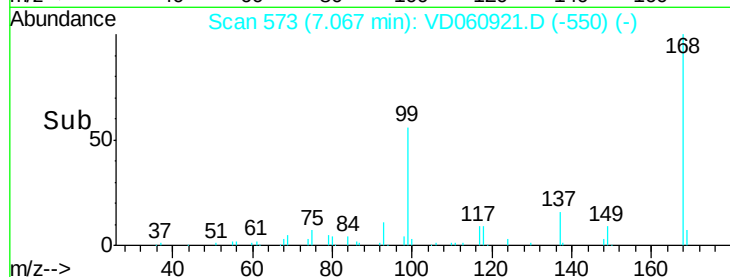
150000

100000

50000

0

Time--> 6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 1.331 ug/l

RT: 2.19 min Scan# 78

Delta R.T. 0.04 min

Lab File: VD060921.D

Acq: 4 Mar 2019 14:08

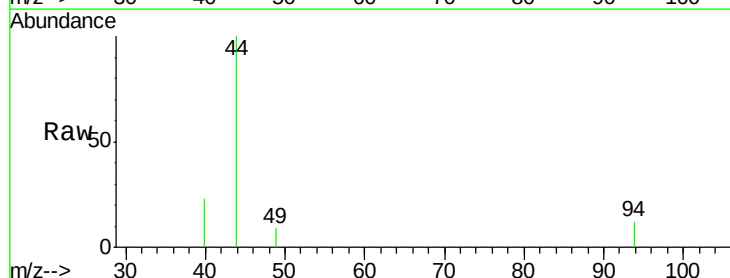
Tgt Ion: 94 Resp: 799

Ion Ratio Lower Upper

94 100

96 0.0 75.1 112.7#

93 0.0 18.6 28.0#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

500

400

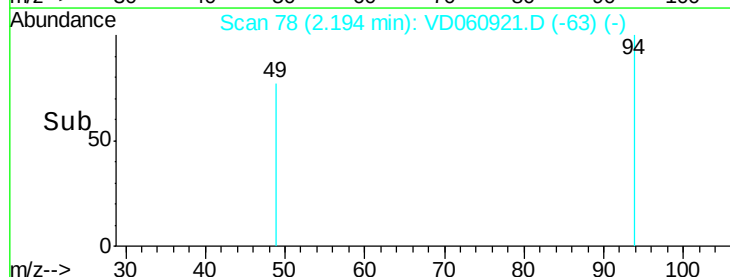
300

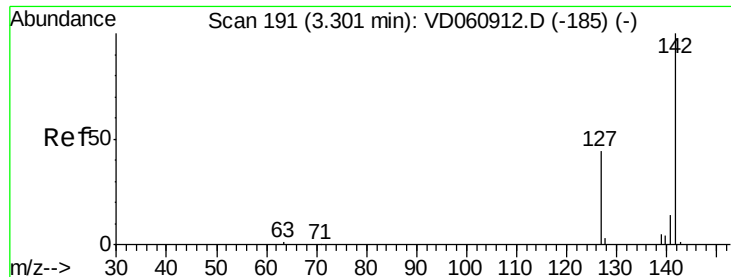
200

100

0

Time--> 2.15 2.20

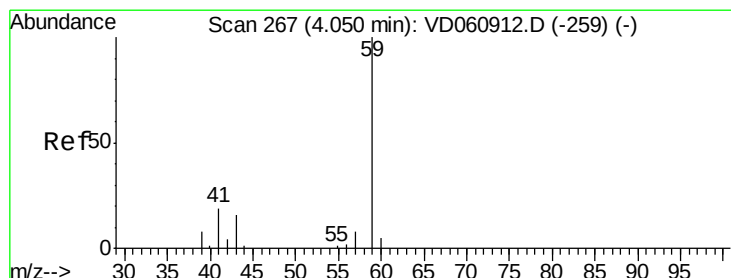
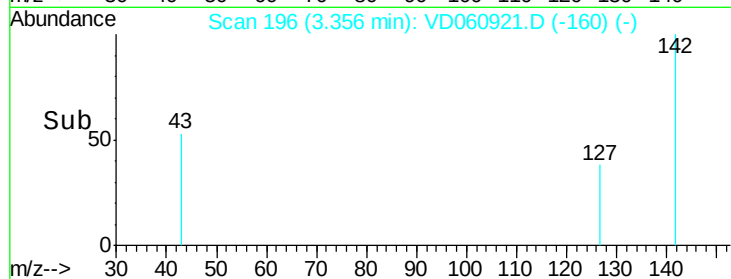
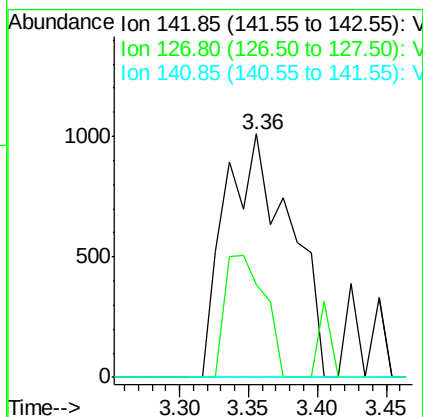
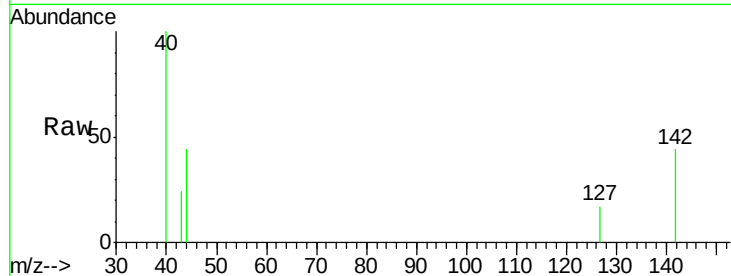




#10
Methvl Iodide
Concen: 5.118 ug/l
RT: 3.36 min Scan# 196
Delta R.T. 0.05 min
Lab File: VD060921.D
Acq: 4 Mar 2019 14:08

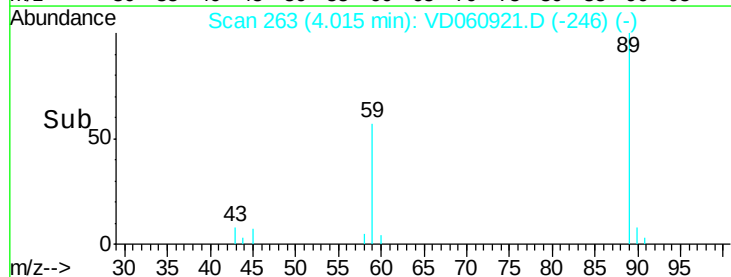
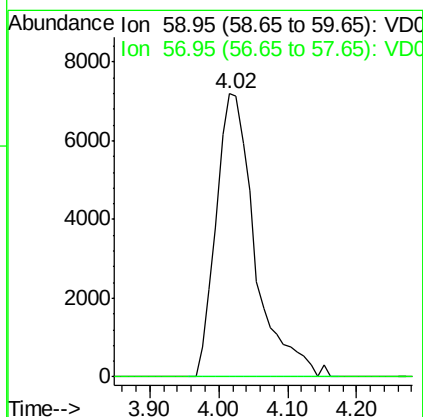
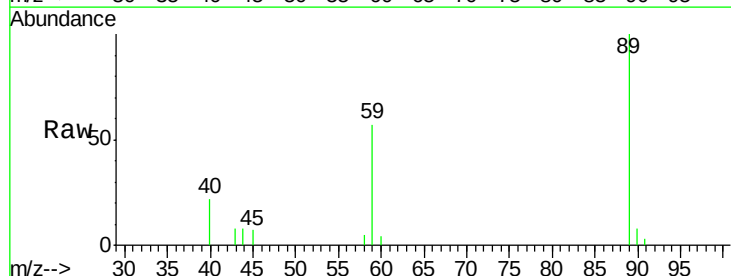
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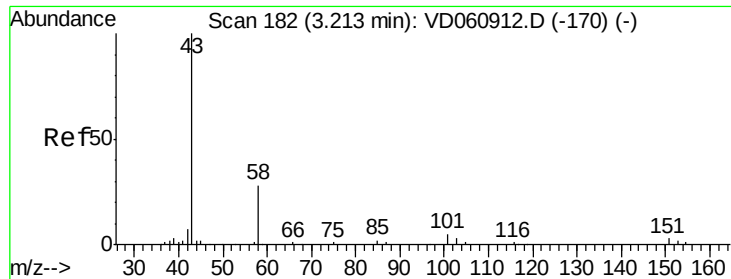
Tot Ion:142 Resp: 3297
Ion Ratio Lower Upper
142 100
127 38.2 35.0 52.6
141 0.0 11.0 16.4#



#11
Tert butyl alcohol
Concen: 112.095 ug/l
RT: 4.02 min Scan# 263
Delta R.T. -0.03 min
Lab File: VD060921.D
Acq: 4 Mar 2019 14:08

Tgt Ion: 59 Resp: 28246
Ion Ratio Lower Upper
59 100
57 0.0 6.5 9.7#

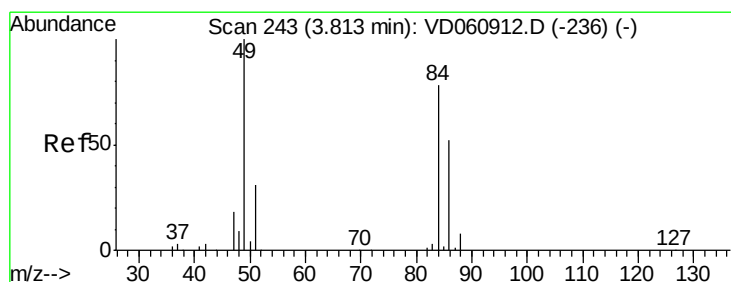
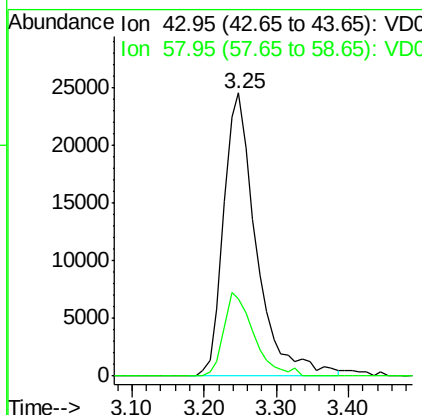
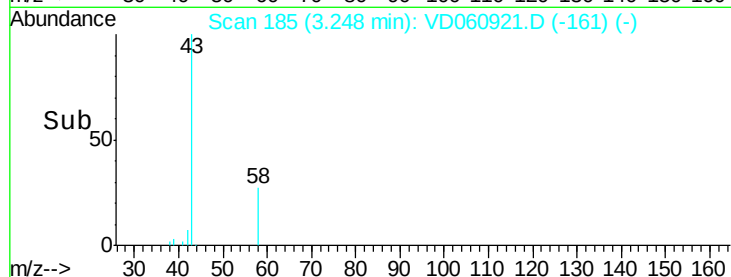
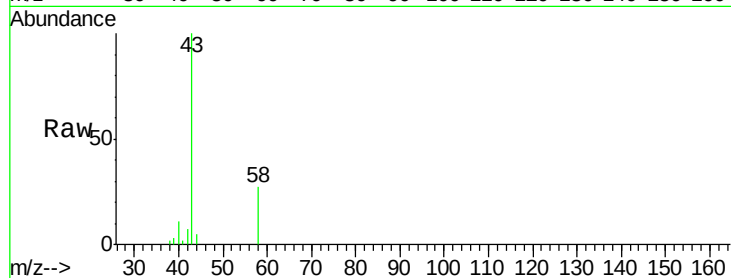




#16
Acetone
Concen: 68.285 ug/l
RT: 3.25 min Scan# 185
Delta R.T. 0.03 min
Lab File: VD060921.D
Acq: 4 Mar 2019 14:08

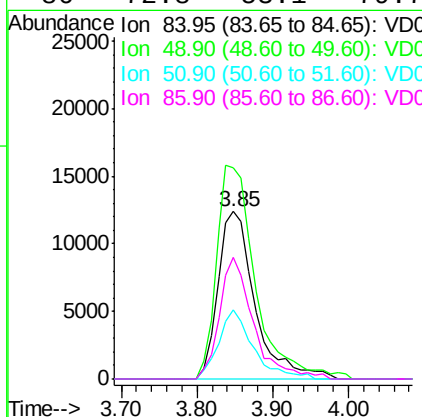
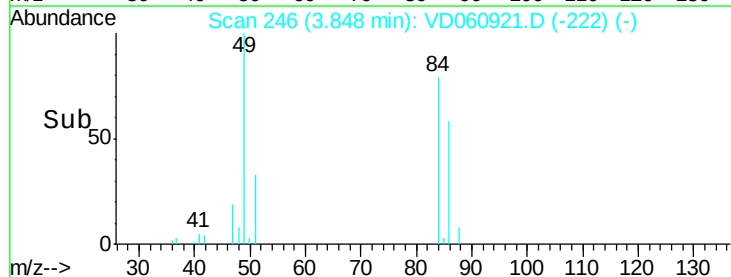
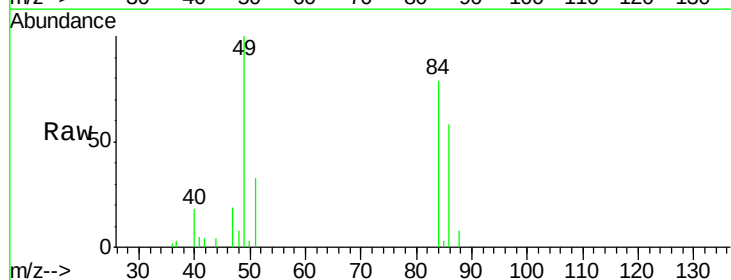
Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-033-A

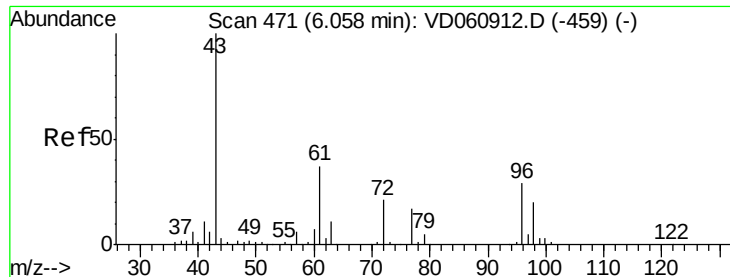
Tot Ion: 43 Resp: 77083
Ion Ratio Lower Upper
43 100
58 27.2 22.8 34.2



#20
Methylene Chloride
Concen: 4.558 ug/l
RT: 3.85 min Scan# 246
Delta R.T. 0.04 min
Lab File: VD060921.D
Acq: 4 Mar 2019 14:08

Tgt Ion: 84 Resp: 42099
Ion Ratio Lower Upper
84 100
49 126.4 102.4 153.6
51 41.6 31.9 47.9
86 72.8 53.1 79.7





#25

2-Butanone

Concen: 7.550 ug/l

RT: 6.18 min Scan# 483

Delta R.T. 0.12 min

Lab File: VD060921.D

Acq: 4 Mar 2019 14:08

Instrument :

MSVOA_D

ClientSampleId :

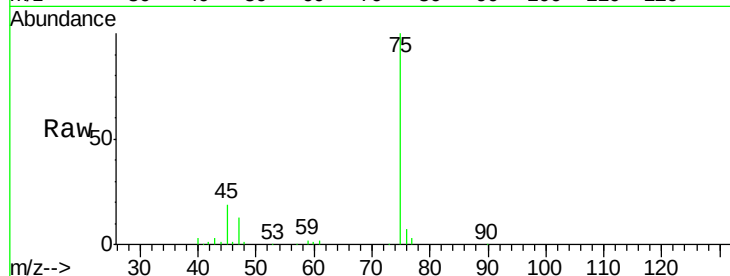
FK-GF-02-033-A

Tot Ion: 43 Resp: 10573

Ion Ratio Lower Upper

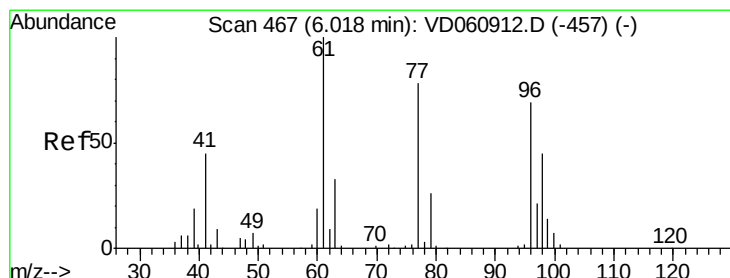
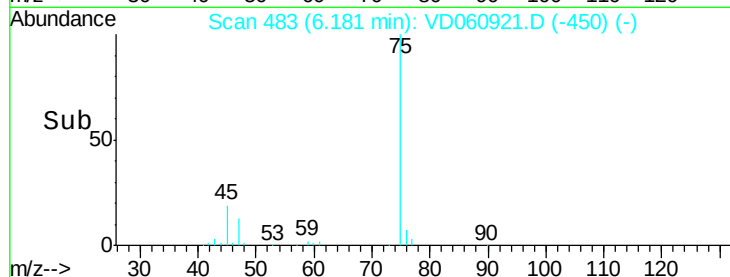
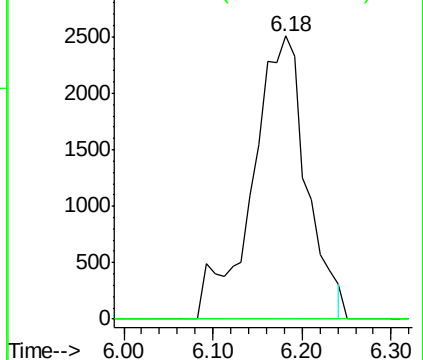
43 100

72 0.0 17.0 25.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.631 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.15 min

Lab File: VD060921.D

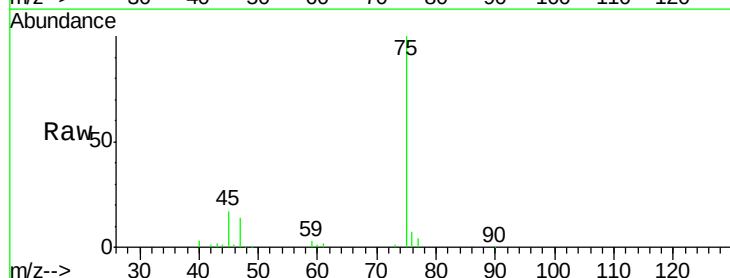
Acq: 4 Mar 2019 14:08

Tgt Ion: 77 Resp: 10502

Ion Ratio Lower Upper

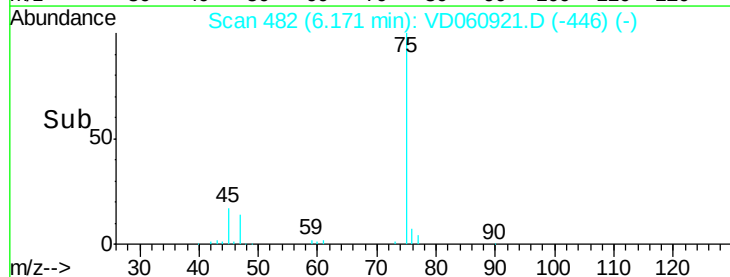
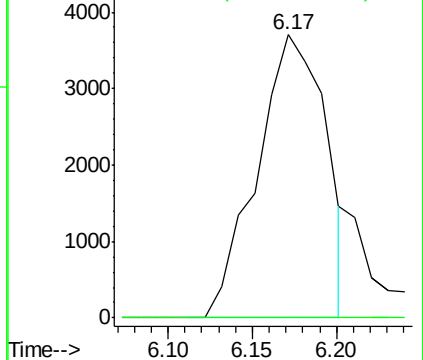
77 100

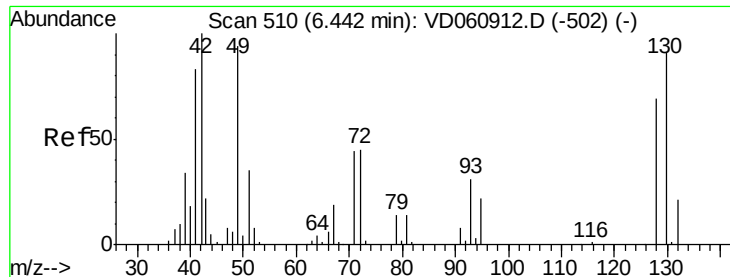
97 0.0 13.5 40.4#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#29

Tetrahydrofuran

Concen: 3.758 ug/l

RT: 6.49 min Scan# 514

Delta R.T. 0.04 min

Lab File: VD060921.D

Acq: 4 Mar 2019 14:08

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-033-A

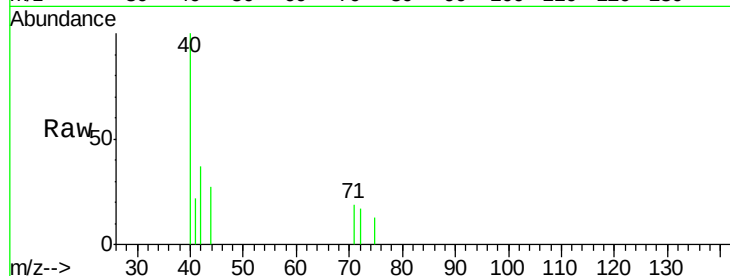
Tot Ion: 42 Resp: 2709

Ion Ratio Lower Upper

42 100

72 34.6 33.8 50.6

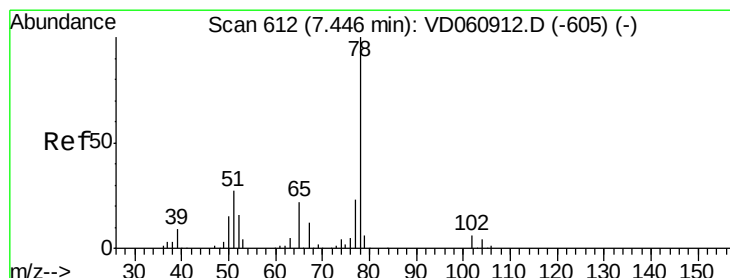
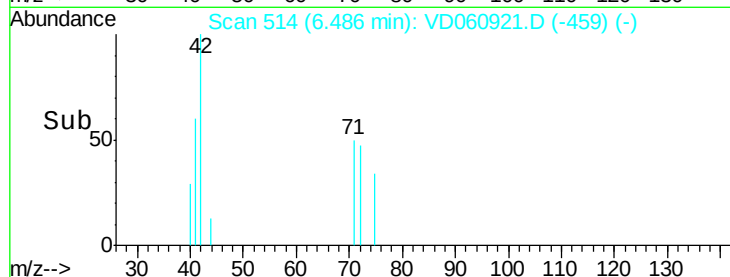
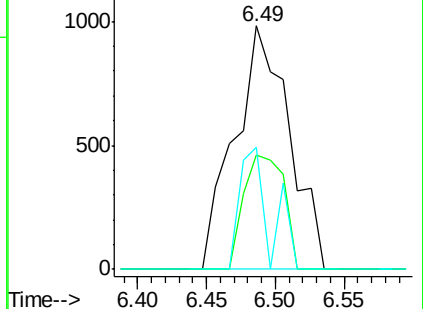
71 27.9 33.5 50.3#



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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.48 min Scan# 615

Delta R.T. 0.03 min

Lab File: VD060921.D

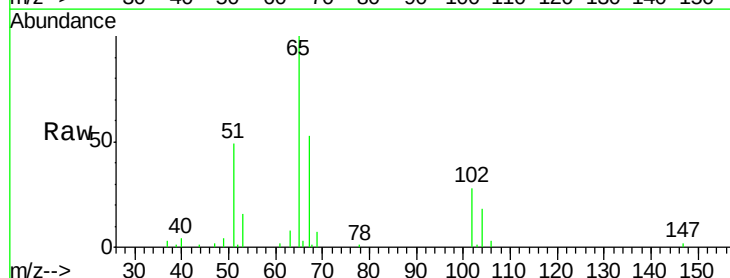
Acq: 4 Mar 2019 14:08

Tgt Ion: 65 Resp: 198913

Ion Ratio Lower Upper

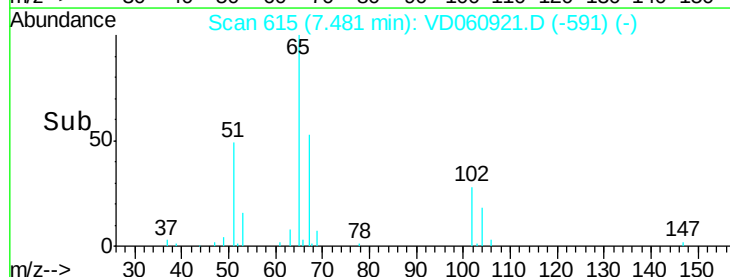
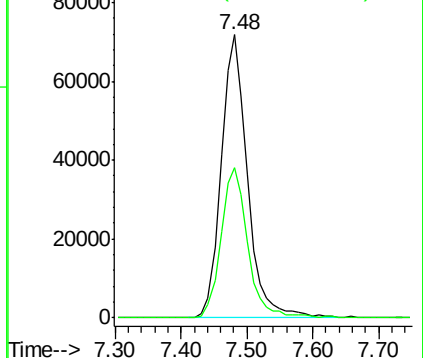
65 100

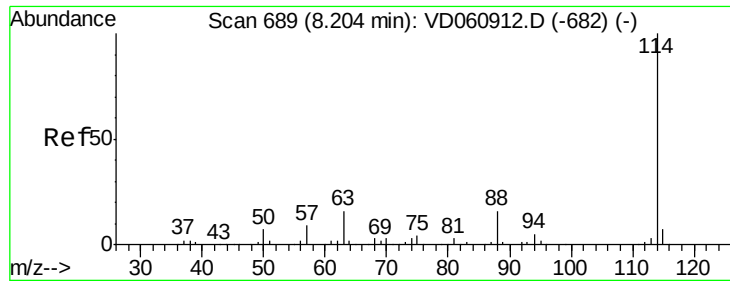
67 53.3 0.0 109.4



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: 8.24 min Scan# 692

Delta R.T. 0.03 min

Lab File: VD060921.D

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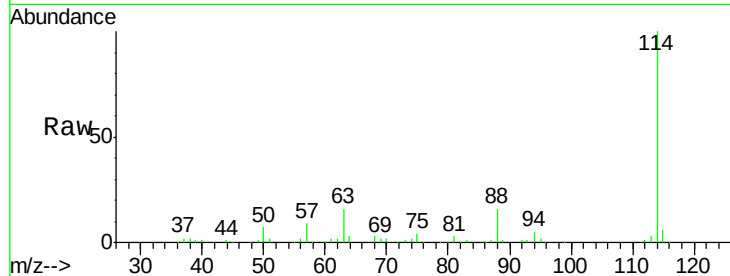
Tot Ion:114 Resp: 795981

Ion Ratio Lower Upper

114 100

63 16.0 0.0 32.0

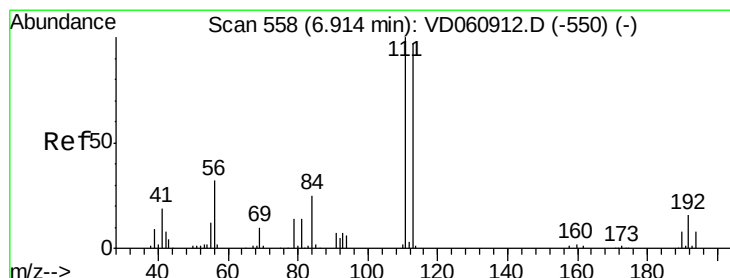
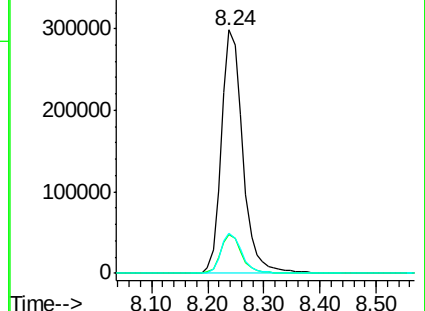
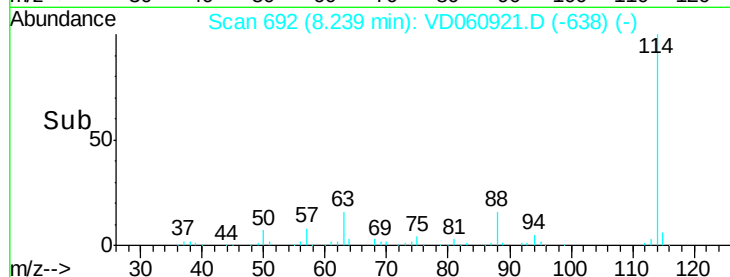
88 16.4 0.0 32.8



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: 6.95 min Scan# 561

Delta R.T. 0.03 min

Lab File: VD060921.D

Acq: 4 Mar 2019 14:08

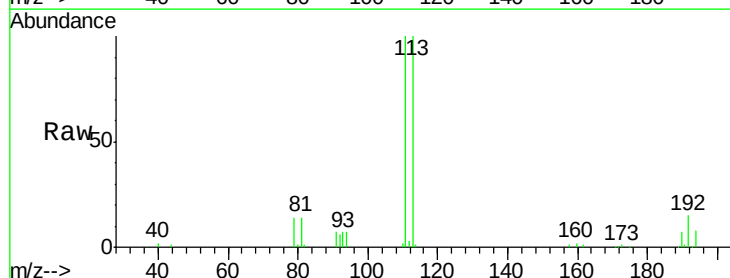
Tgt Ion:113 Resp: 289975

Ion Ratio Lower Upper

113 100

111 100.4 82.6 124.0

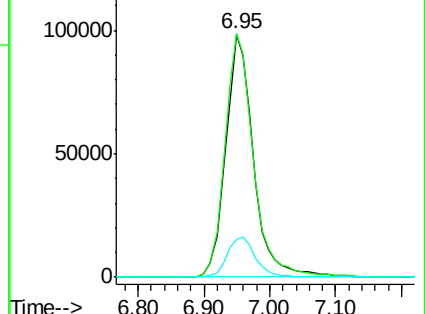
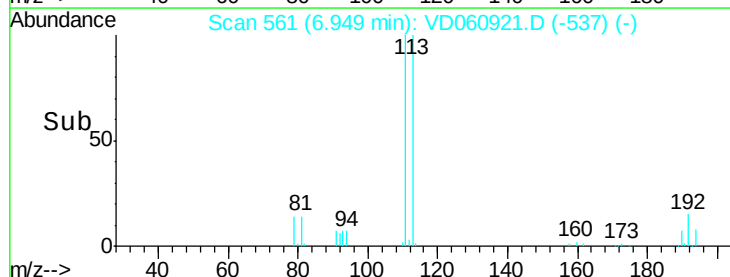
192 15.3 13.4 20.2

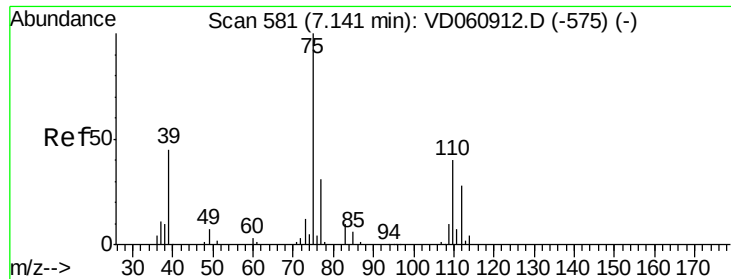


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

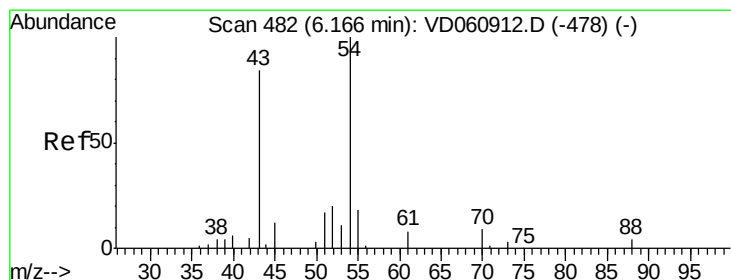
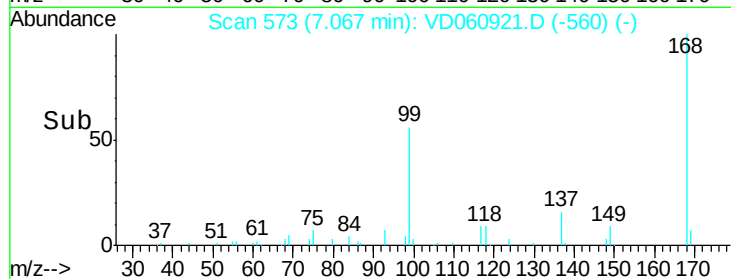
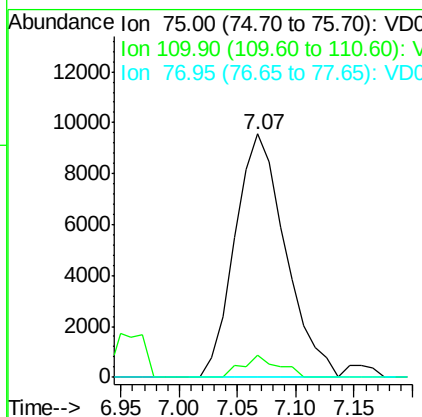
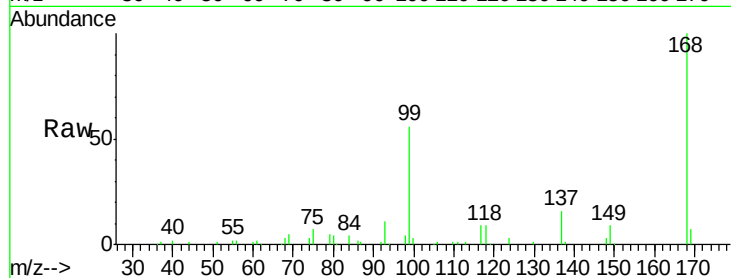




#36
 1,1-Dichloropropene
 Concen: 3.914 ug/l
 RT: 7.07 min Scan# 573
 Delta R.T. -0.07 min
 Lab File: VD060921.D
 Acq: 4 Mar 2019 14:08

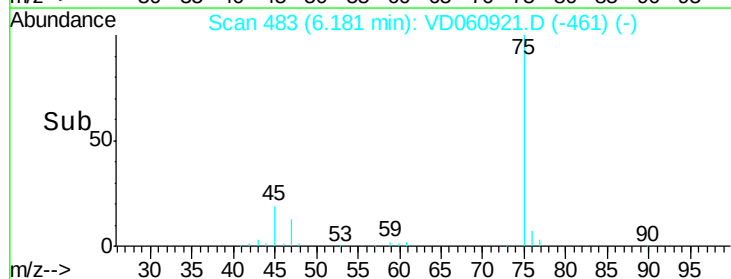
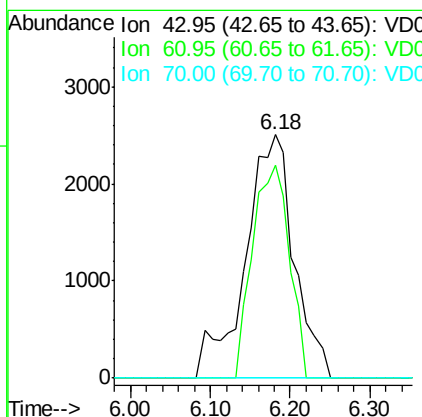
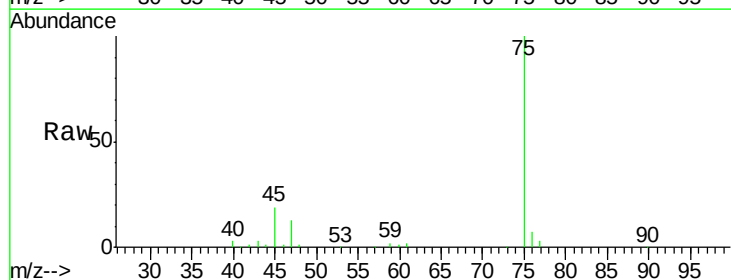
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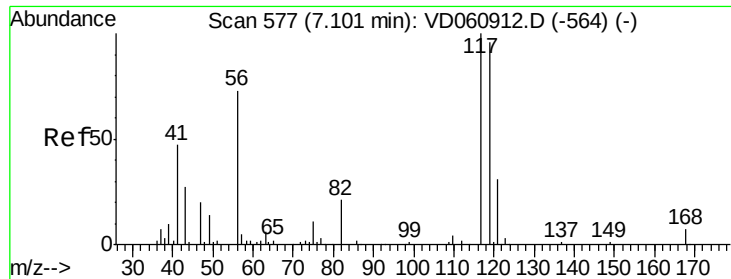
Tot Ion: 75 Resp: 28645
 Ion Ratio Lower Upper
 75 100
 110 8.9 19.9 59.7#
 77 0.0 25.0 37.6#



#37
 Ethyl Acetate
 Concen: 2.810 ug/l
 RT: 6.18 min Scan# 483
 Delta R.T. 0.02 min
 Lab File: VD060921.D
 Acq: 4 Mar 2019 14:08

Tgt Ion: 43 Resp: 10573
 Ion Ratio Lower Upper
 43 100
 61 87.7 12.1 18.1#
 70 0.0 7.3 10.9#





#38

Carbon Tetrachloride

Concen: 4.719 ug/l

RT: 7.07 min Scan# 573

Delta R.T. -0.03 min

Lab File: VD060921.D

Acq: 4 Mar 2019 14:08

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-033-A

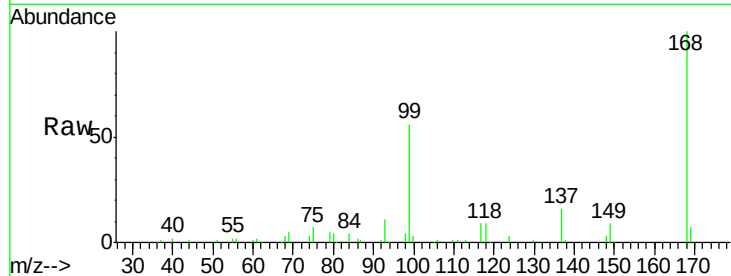
Tot Ion:117 Resp: 37102

Ion Ratio Lower Upper

117 100

119 4.2 76.9 115.3#

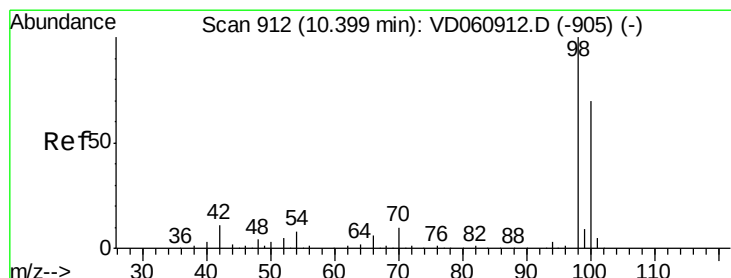
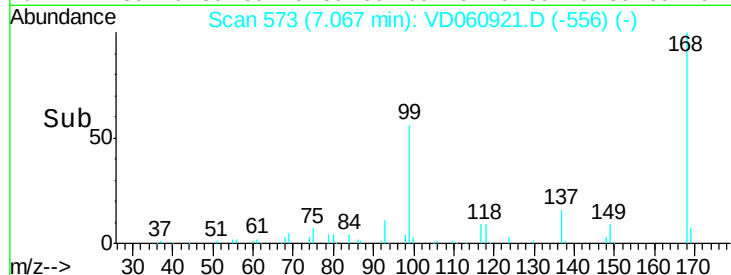
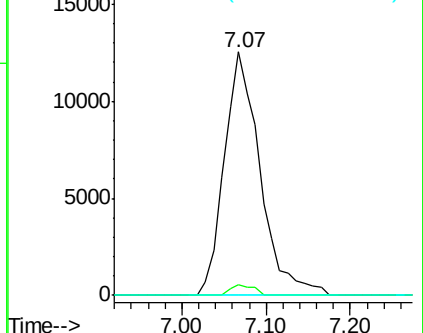
121 0.0 24.5 36.7#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.43 min Scan# 915

Delta R.T. 0.03 min

Lab File: VD060921.D

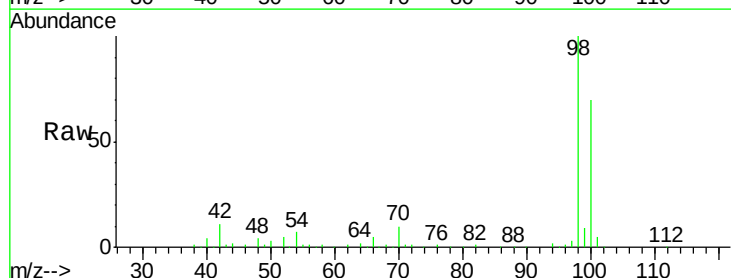
Acq: 4 Mar 2019 14:08

Tgt Ion: 98 Resp: 692976

Ion Ratio Lower Upper

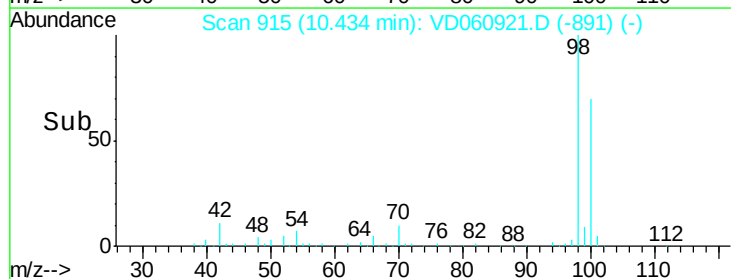
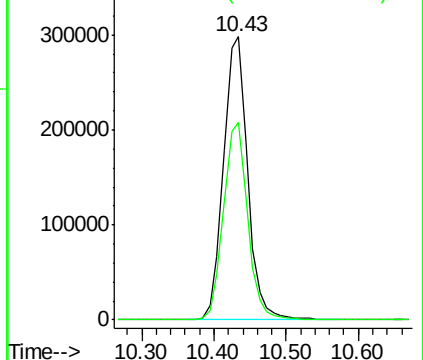
98 100

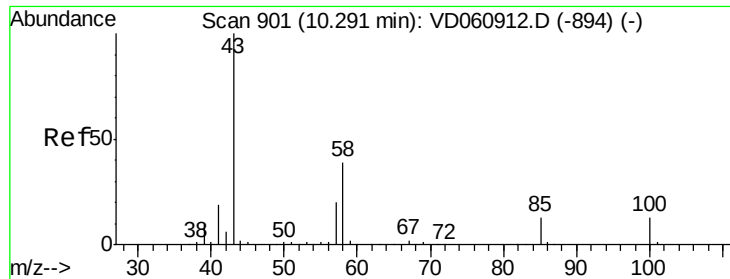
100 70.0 57.0 85.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.279 ug/l

RT: 10.32 min Scan# 903

Delta R.T. 0.02 min

Lab File: VD060921.D

Acq: 4 Mar 2019 14:08

Instrument :

MSVOA_D

ClientSampleId :

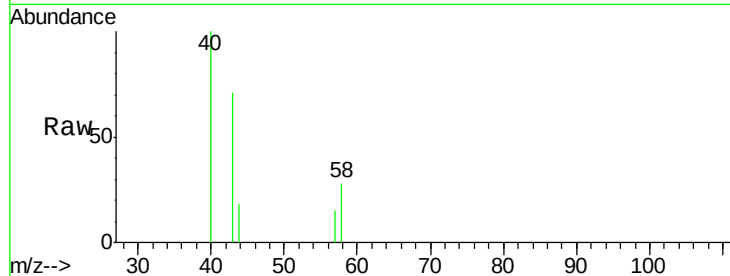
FK-GF-02-033-A

Tot Ion: 43 Resp: 4085

Ion Ratio Lower Upper

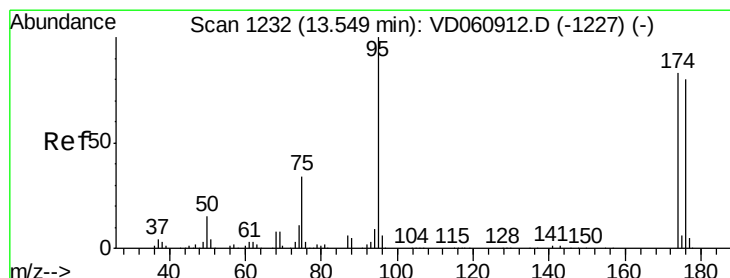
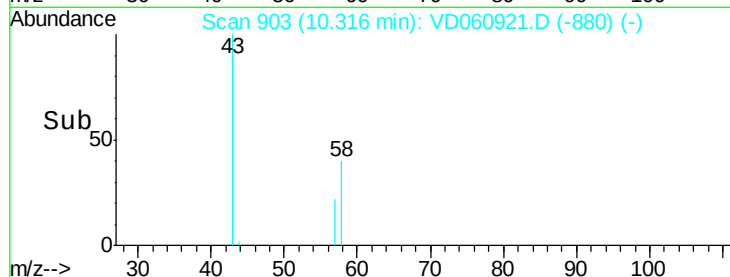
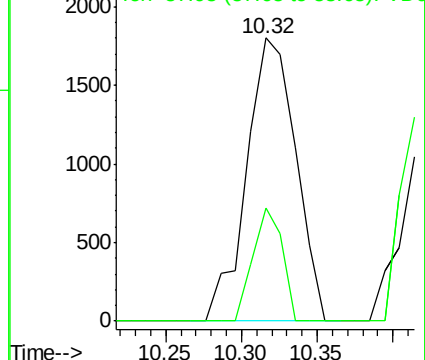
43 100

58 39.8 31.0 46.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VD060921.D

Acq: 4 Mar 2019 14:08

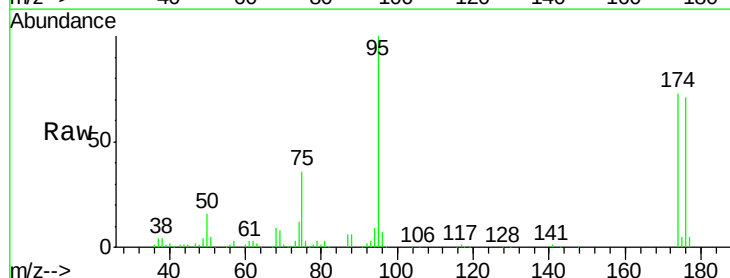
Tgt Ion: 95 Resp: 255379

Ion Ratio Lower Upper

95 100

174 73.3 0.0 165.6

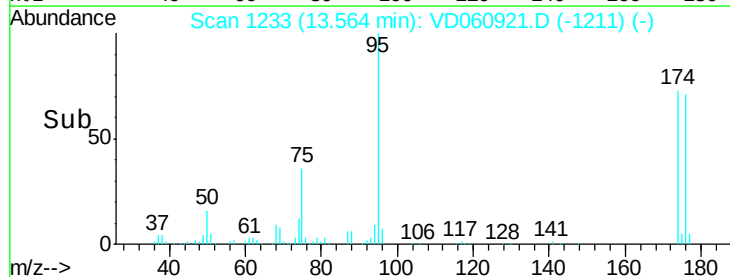
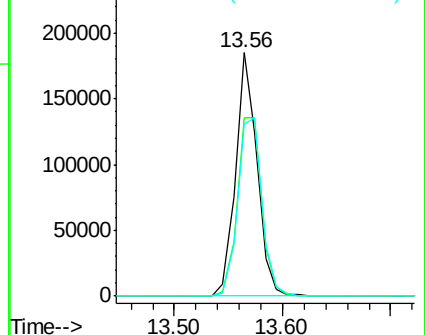
176 70.5 0.0 160.6

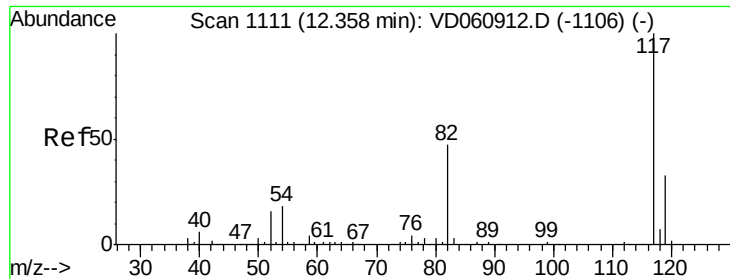


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

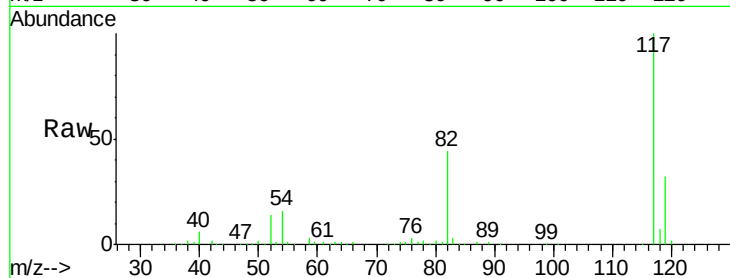




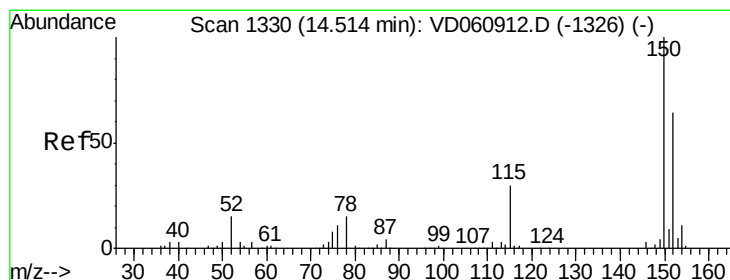
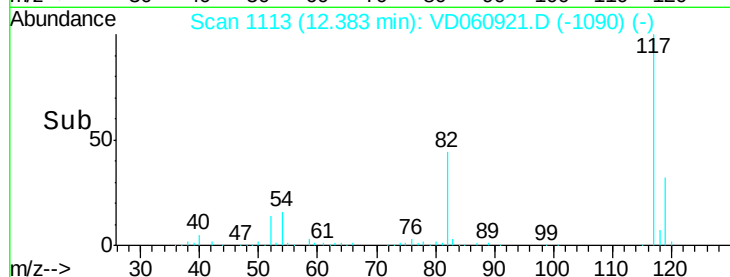
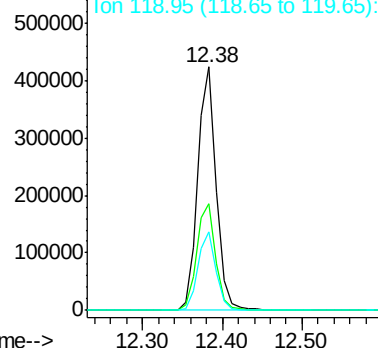
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD060921.D
Acq: 4 Mar 2019 14:08

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-033-A

Tot Ion:117 Resp: 693097
Ion Ratio Lower Upper
117 100
82 43.7 37.5 56.3
119 32.1 26.2 39.2

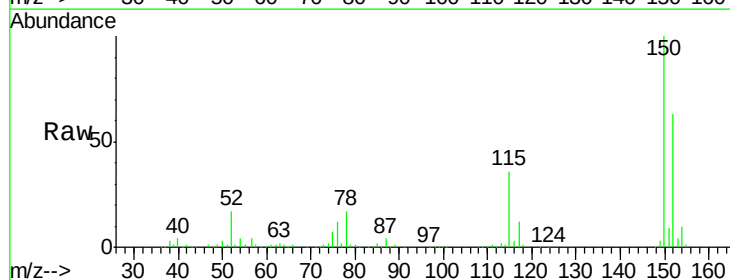


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

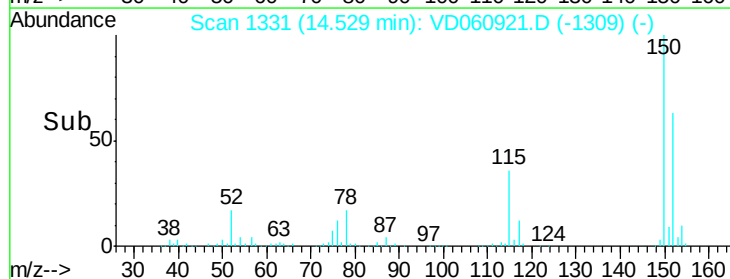
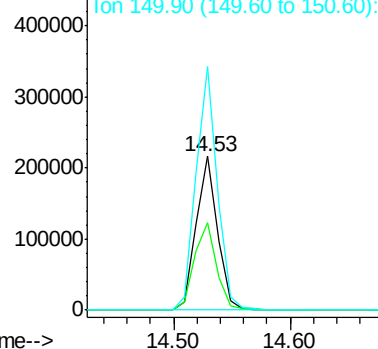


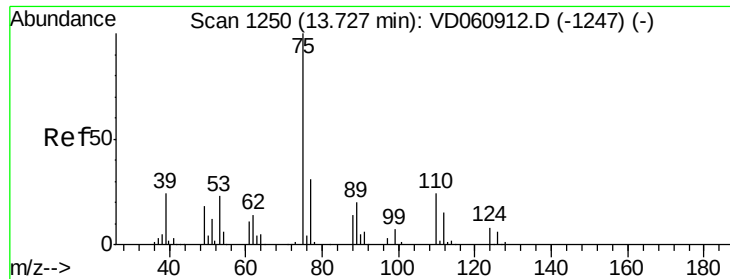
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.02 min
Lab File: VD060921.D
Acq: 4 Mar 2019 14:08

Tgt Ion:152 Resp: 274251
Ion Ratio Lower Upper
152 100
115 56.5 27.6 82.8
150 158.1 0.0 312.8



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

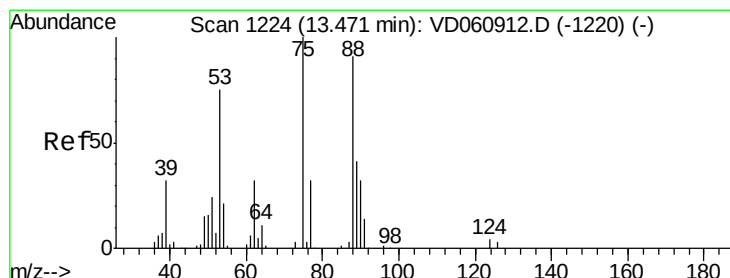
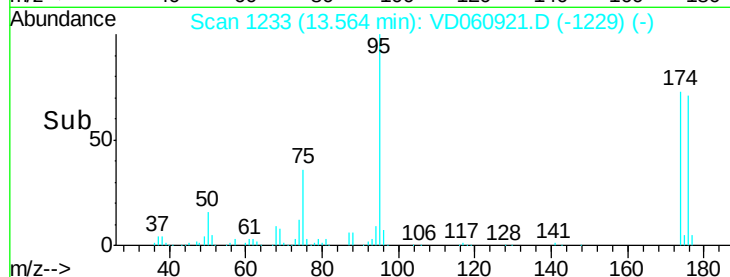
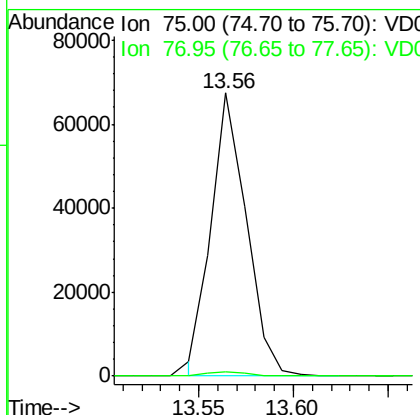
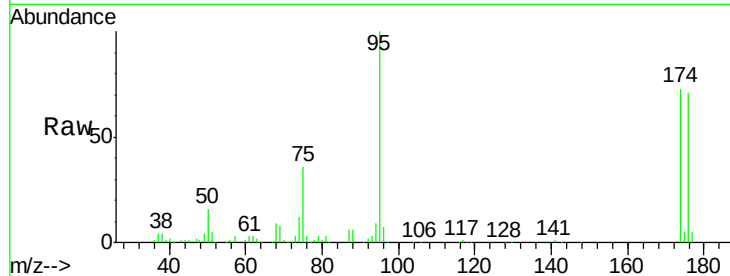




#76
 1,2,3-Trichloropropane
 Concen: 19.684 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.16 min
 Lab File: VD060921.D
 Acq: 4 Mar 2019 14:08

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-033-A

Tot Ion: 75 Resp: 87467
 Ion Ratio Lower Upper
 75 100
 77 1.4 16.2 48.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.047 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.09 min
 Lab File: VD060921.D
 Acq: 4 Mar 2019 14:08

Tgt Ion: 75 Resp: 89489
 Ion Ratio Lower Upper
 75 100
 53 0.0 59.8 89.6#
 89 0.0 33.0 49.6#

