

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042319\
 Data File : VD061977.D
 Acq On : 23 Apr 2019 18:39
 Operator : VA/AP
 Sample : K2540-02
 Misc : 4.48g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-007-A

Quant Time: Apr 24 02:12:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	450776	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	804792	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	540469	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	165687	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	173949	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
35) Dibromofluoromethane	7.04	113	214	0.04	ug/l	0.10
Spiked Amount			Recovery	=	0.08%	
50) Toluene-d8	10.41	98	569478	43.00	ug/l	0.00
Spiked Amount			Recovery	=	86.00%	
62) 4-Bromofluorobenzene	13.55	95	185424	34.91	ug/l	0.00
Spiked Amount			Recovery	=	69.82%	

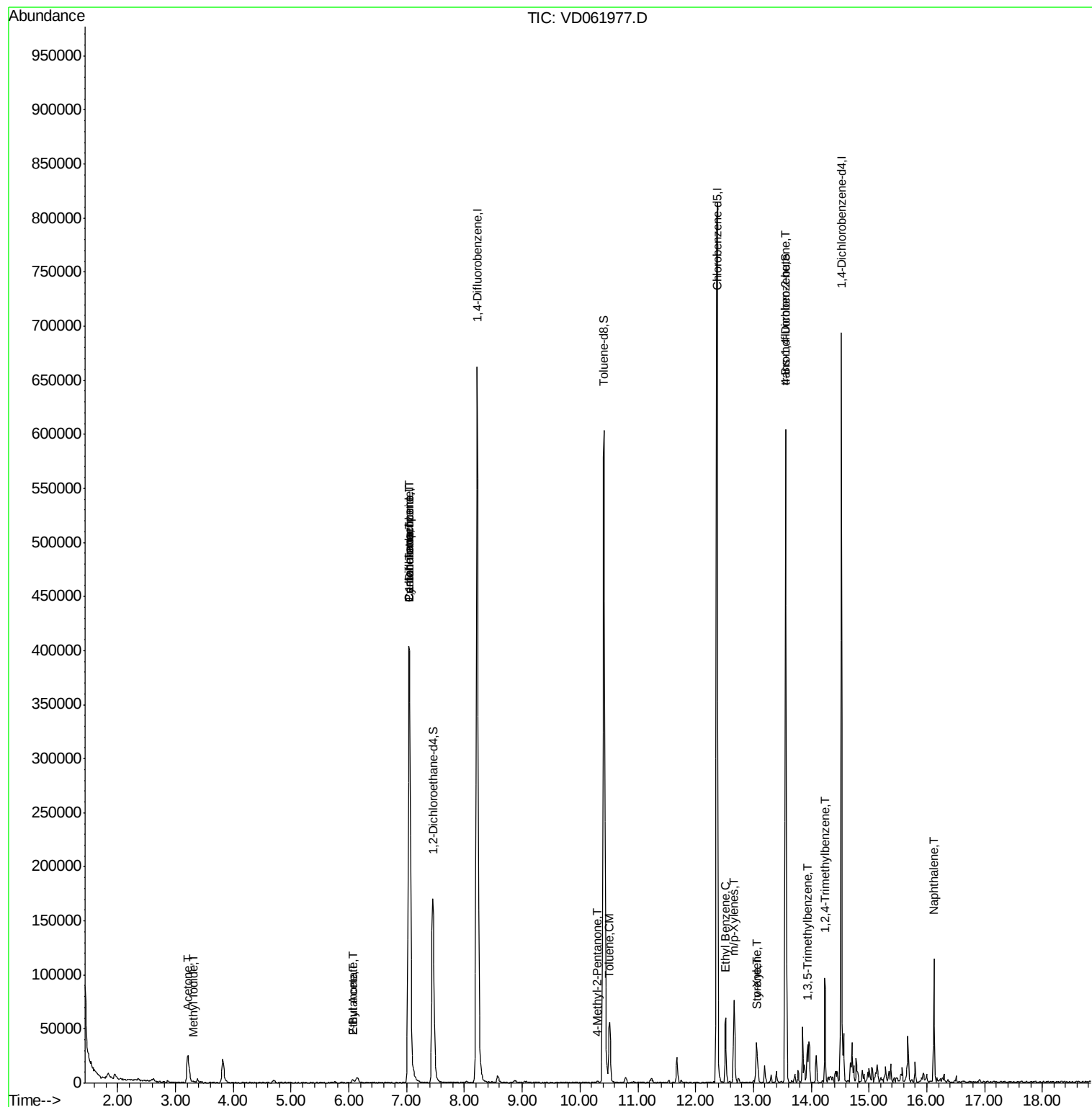
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.32	142	254	5.463	ug/l #	37
16) Acetone	3.22	43	50422	59.856	ug/l	93
25) 2-Butanone	6.07	43	6926	6.781	ug/l #	84
31) Cyclohexane	7.04	56	7924	1.508	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	30756	4.905	ug/l #	47
37) Ethyl Acetate	6.07	43	6926	2.592	ug/l #	64
38) Carbon Tetrachloride	7.05	117	43716	5.502	ug/l #	16
51) 4-Methyl-2-Pentanone	10.31	43	2727	1.142	ug/l #	37
52) Toluene	10.51	92	30579	3.090	ug/l	98
67) Ethyl Benzene	12.52	91	16733	1.004	ug/l	95
68) m/p-Xylenes	12.66	106	27404	4.549	ug/l	88
69) o-Xylene	13.05	106	9826	1.783	ug/l	93
70) Styrene	13.07	104	9994	1.050	ug/l	93
80) 1,3,5-Trimethylbenzene	13.94	105	16656	1.890	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.55	75	72390	113.537	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.23	105	47312	5.622	ug/l	93
95) Naphthalene	16.12	128	66795	16.741	ug/l	100

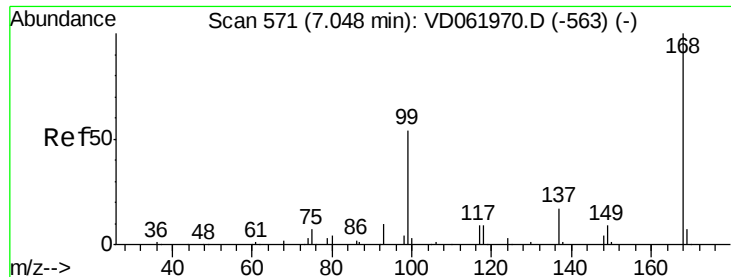
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD061977.D

Acq: 23 Apr 2019 18:39

Instrument :

MSVOA_D

ClientSampleId :

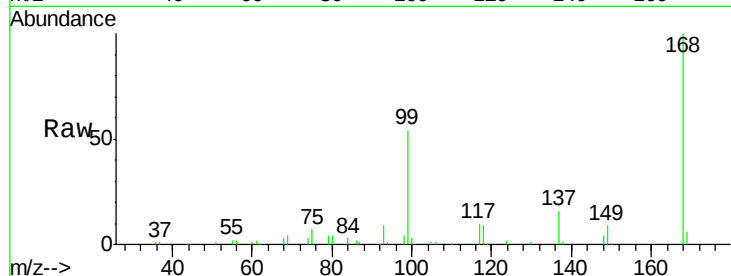
FK-SF-03-007-A

Tot Ion:168 Resp: 450776

Ion Ratio Lower Upper

168 100

99 54.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.05

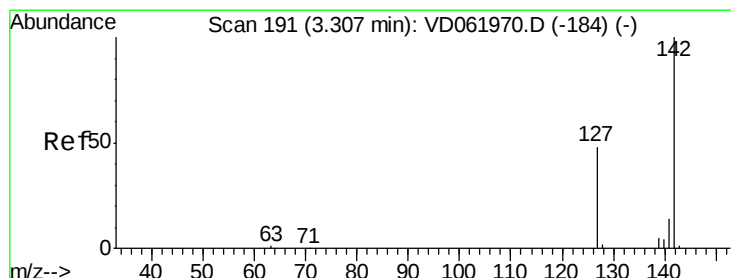
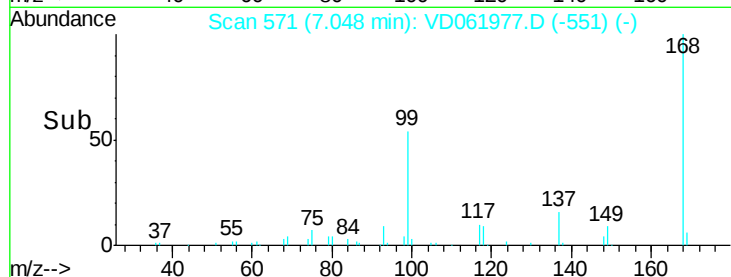
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 5.463 ug/l

RT: 3.32 min Scan# 192

Delta R.T. -0.00 min

Lab File: VD061977.D

Acq: 23 Apr 2019 18:39

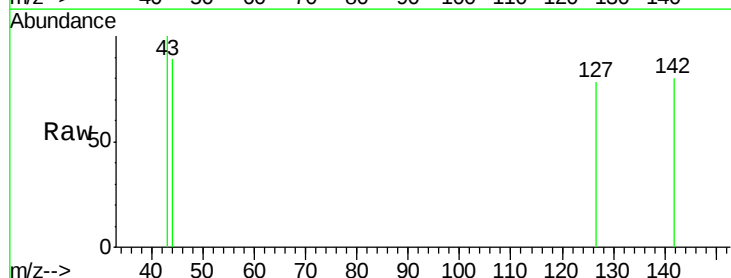
Tgt Ion:142 Resp: 254

Ion Ratio Lower Upper

142 100

127 97.0 38.8 58.2#

141 0.0 11.4 17.0#



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

800

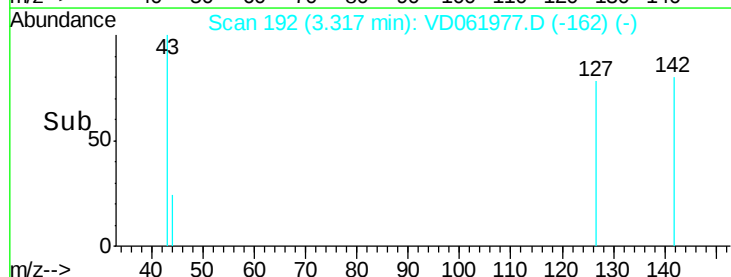
600

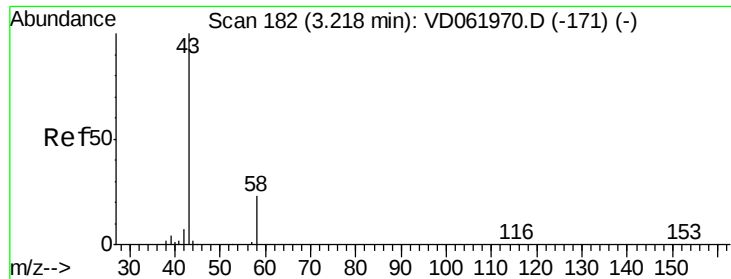
400

200

0

Time-->





#16

Acetone

Concen: 59.856 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD061977.D

Acq: 23 Apr 2019 18:39

Instrument :

MSVOA_D

ClientSampleId :

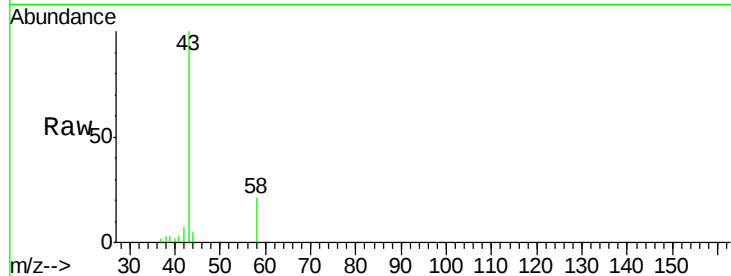
FK-SF-03-007-A

Tot Ion: 43 Resp: 50422

Ion Ratio Lower Upper

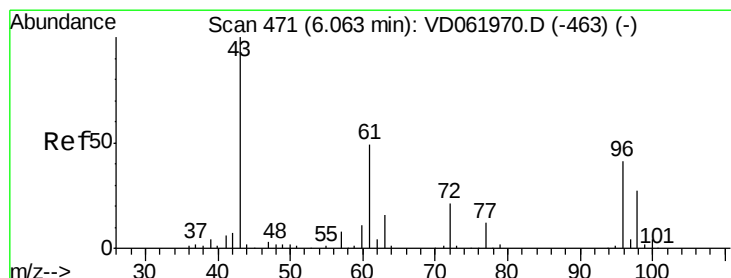
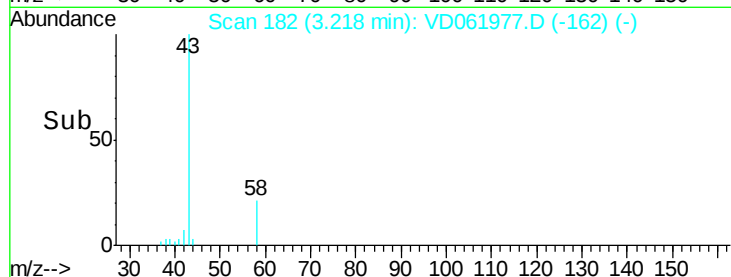
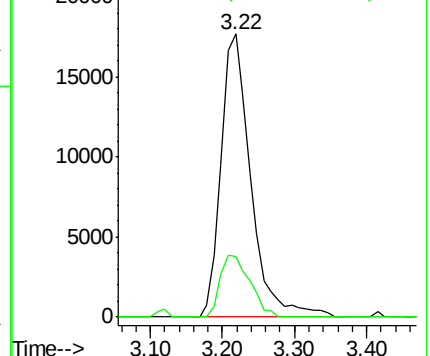
43 100

58 21.3 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#25

2-Butanone

Concen: 6.781 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.00 min

Lab File: VD061977.D

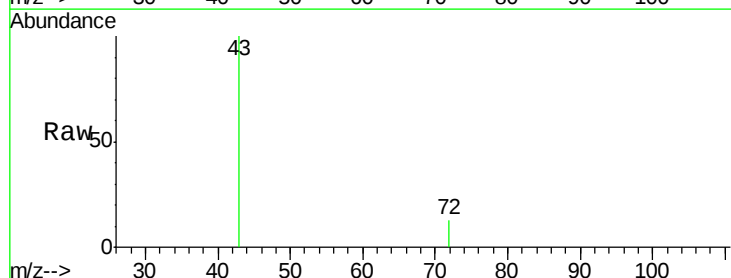
Acq: 23 Apr 2019 18:39

Tgt Ion: 43 Resp: 6926

Ion Ratio Lower Upper

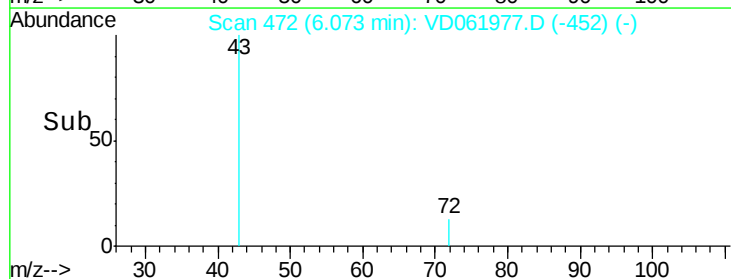
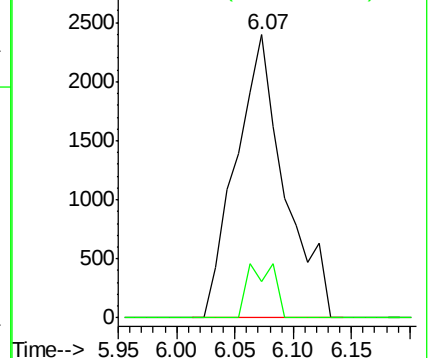
43 100

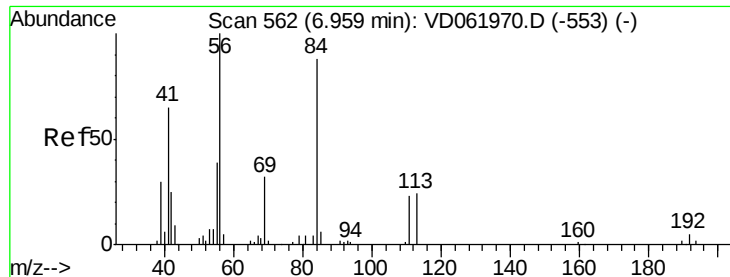
72 12.8 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

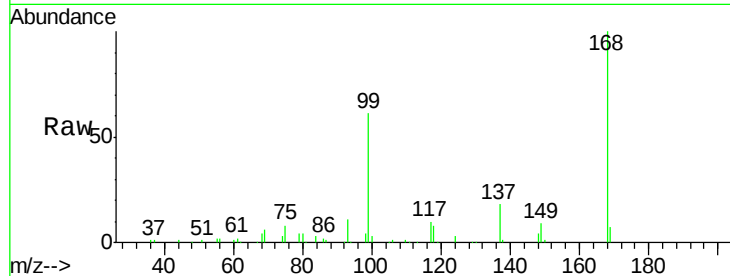




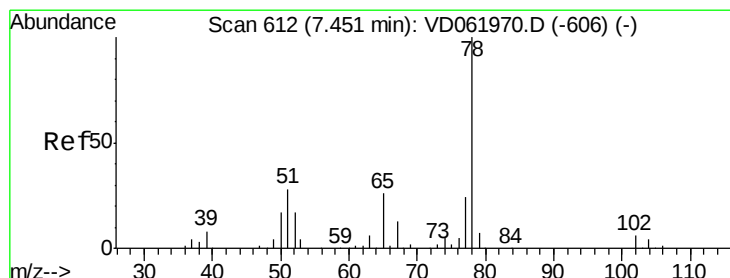
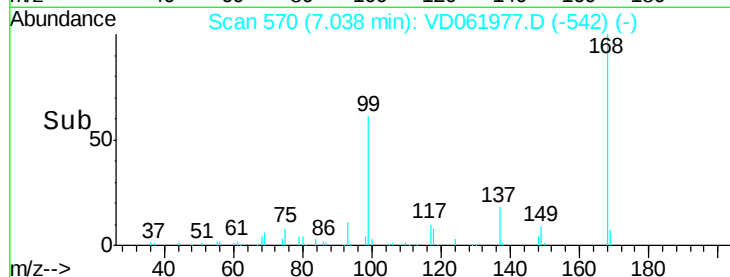
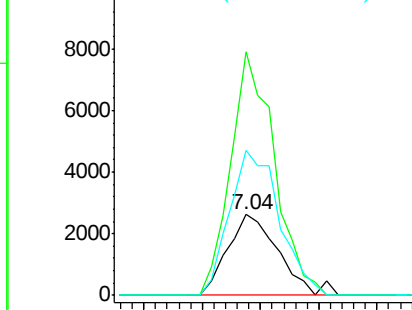
#31
Cyclohexane
Concen: 1.508 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.07 min
Lab File: VD061977.D
Acq: 23 Apr 2019 18:39

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-007-A

Tot Ion: 56 Resp: 7924
Ion Ratio Lower Upper
56 100
69 302.6 25.8 38.6#
84 180.8 72.2 108.4#

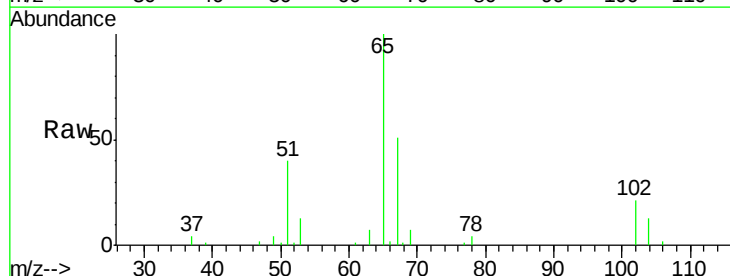


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

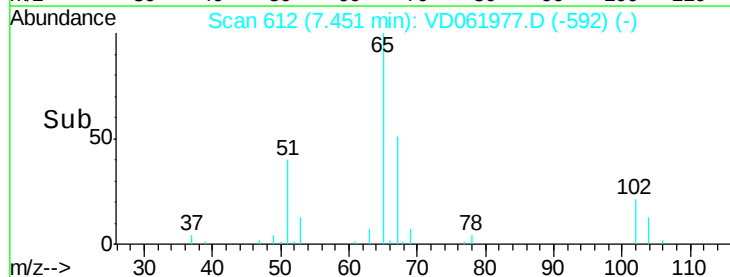
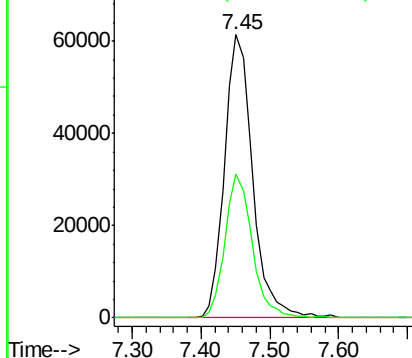


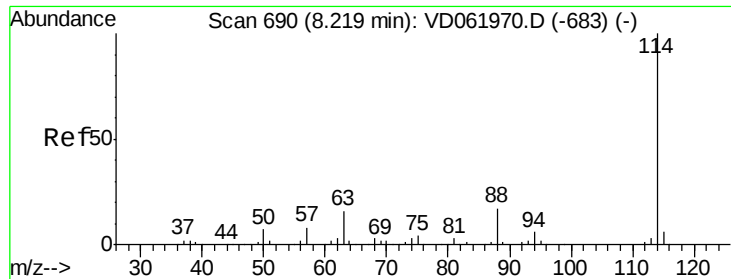
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.00 min
Lab File: VD061977.D
Acq: 23 Apr 2019 18:39

Tgt Ion: 65 Resp: 173949
Ion Ratio Lower Upper
65 100
67 50.8 0.0 98.0



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

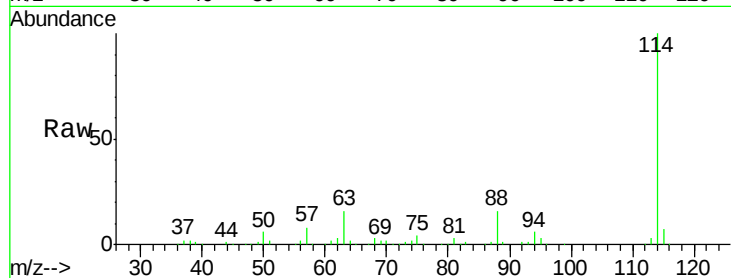




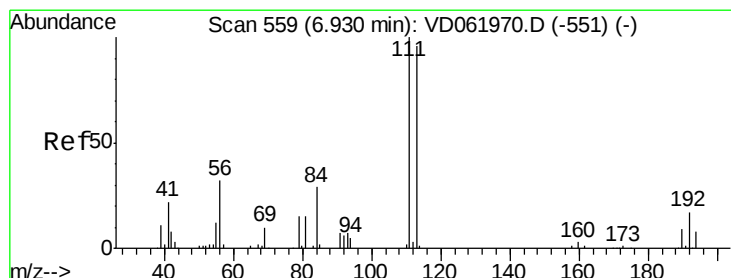
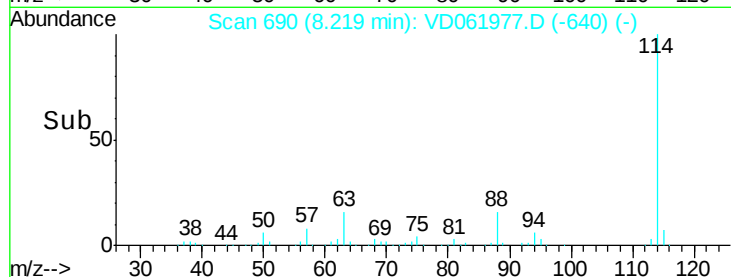
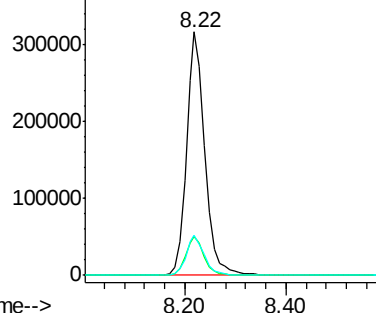
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VD061977.D
 Acq: 23 Apr 2019 18:39

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-007-A

Tot Ion:114 Resp: 804792
 Ion Ratio Lower Upper
 114 100
 63 15.9 0.0 32.4
 88 16.4 0.0 33.6

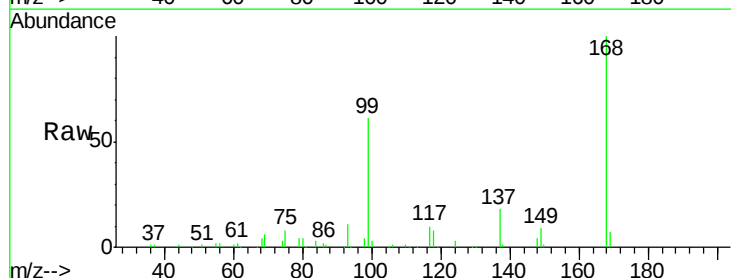


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

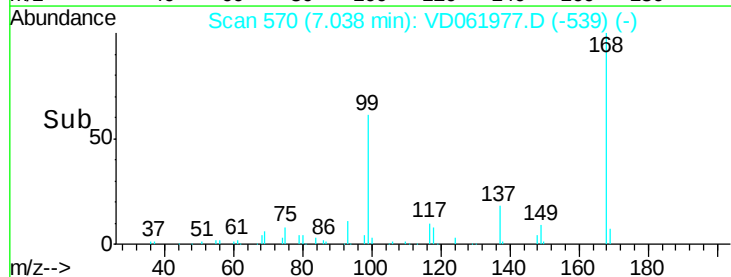
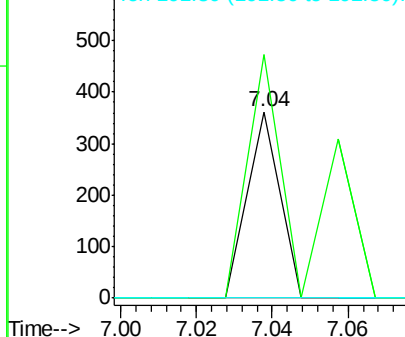


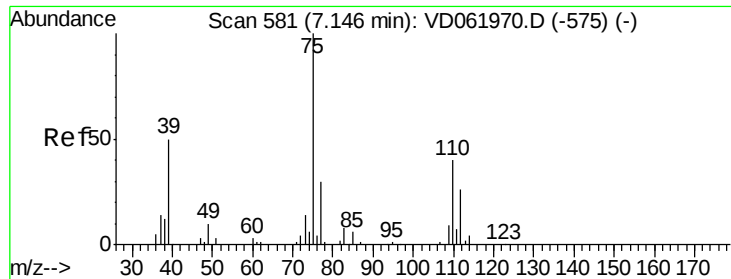
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. 0.10 min
 Lab File: VD061977.D
 Acq: 23 Apr 2019 18:39

Tgt Ion:113 Resp: 214
 Ion Ratio Lower Upper
 113 100
 111 130.7 78.5 117.7#
 192 0.0 13.0 19.4#



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





#36

1,1-Dichloropropene

Concen: 4.905 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.11 min

Lab File: VD061977.D

Acq: 23 Apr 2019 18:39

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-007-A

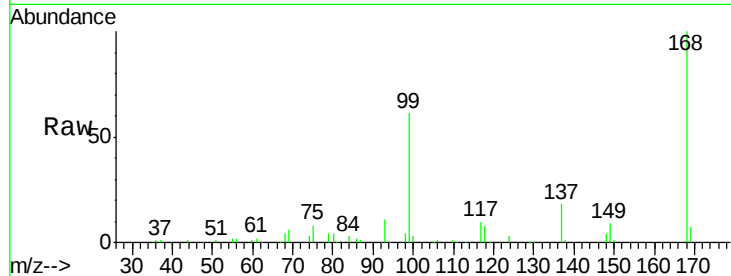
Tot Ion: 75 Resp: 30756

Ion Ratio Lower Upper

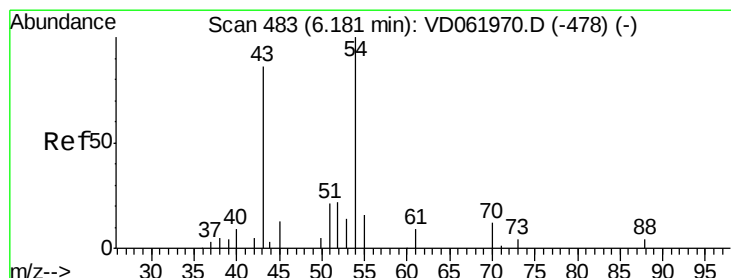
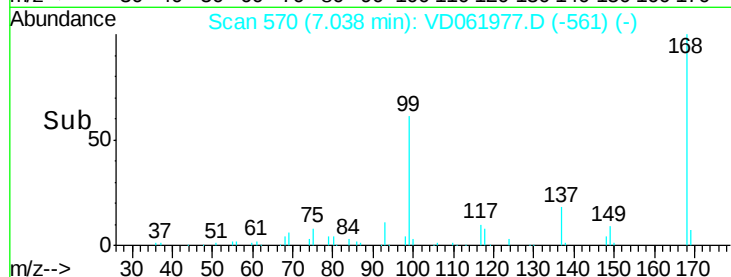
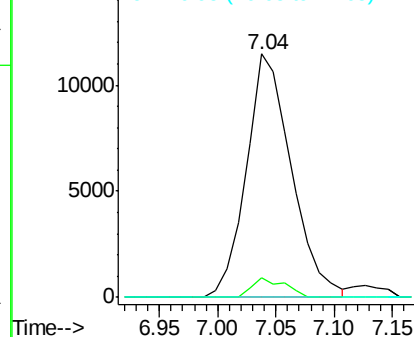
75 100

110 8.3 19.1 57.1#

77 0.0 25.6 38.4#



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: 2.592 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.11 min

Lab File: VD061977.D

Acq: 23 Apr 2019 18:39

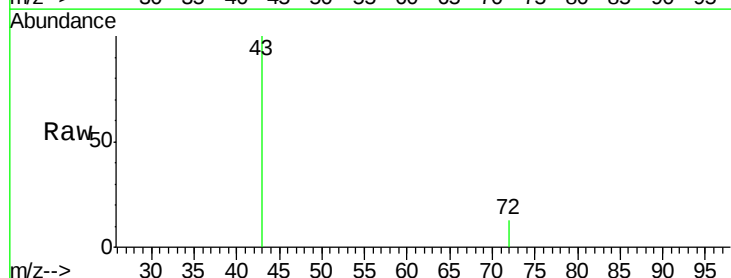
Tgt Ion: 43 Resp: 6926

Ion Ratio Lower Upper

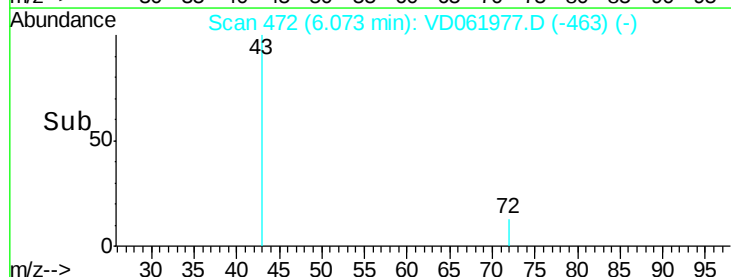
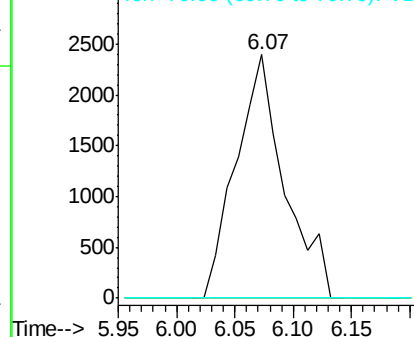
43 100

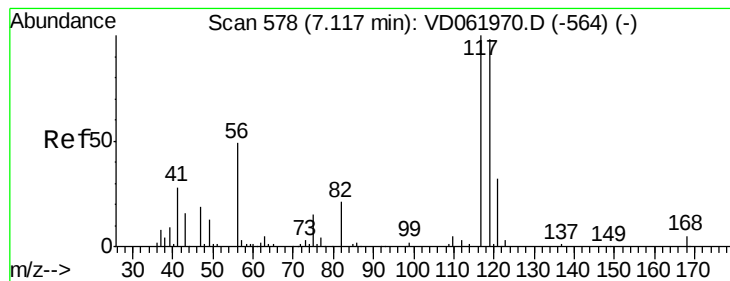
61 0.0 14.7 22.1#

70 0.0 7.8 11.6#



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: 5.502 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061977.D

Acq: 23 Apr 2019 18:39

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-007-A

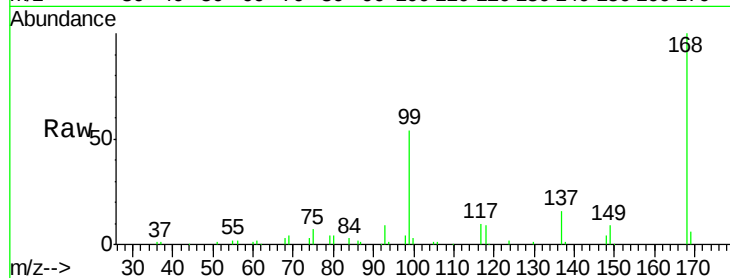
Tot Ion:117 Resp: 43716

Ion Ratio Lower Upper

117 100

119 4.3 75.8 113.8#

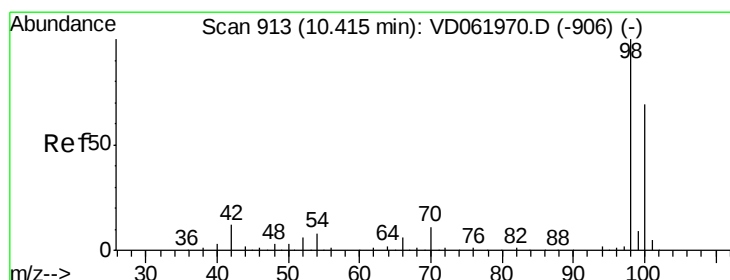
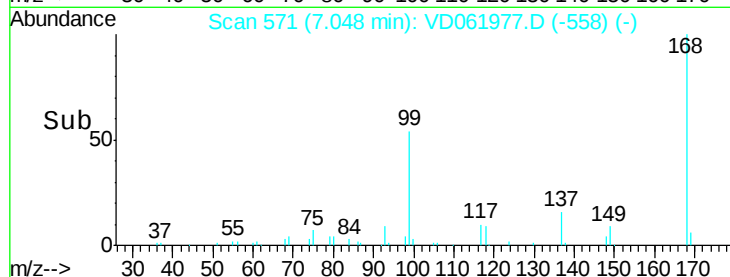
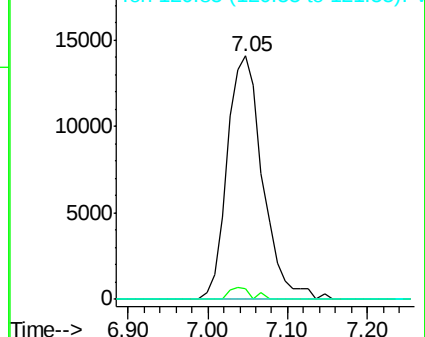
121 0.0 25.9 38.9#



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: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD061977.D

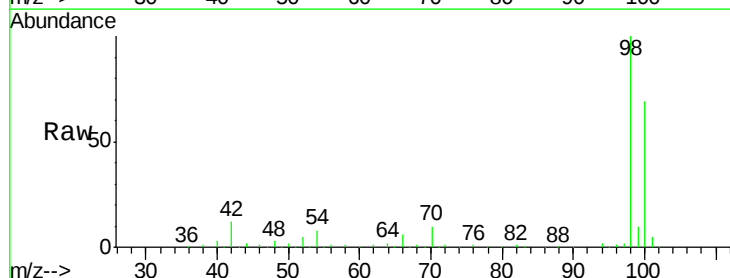
Acq: 23 Apr 2019 18:39

Tgt Ion: 98 Resp: 569478

Ion Ratio Lower Upper

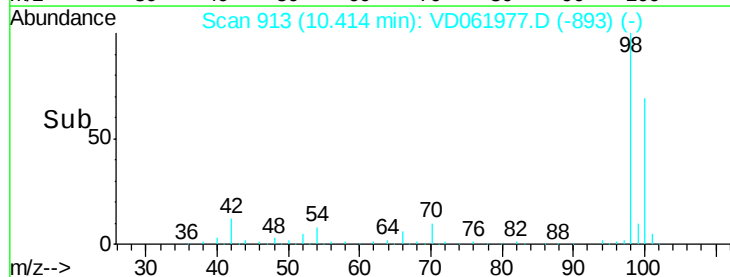
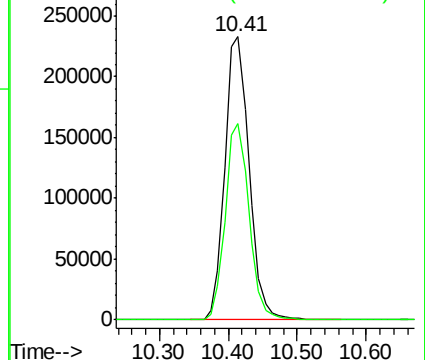
98 100

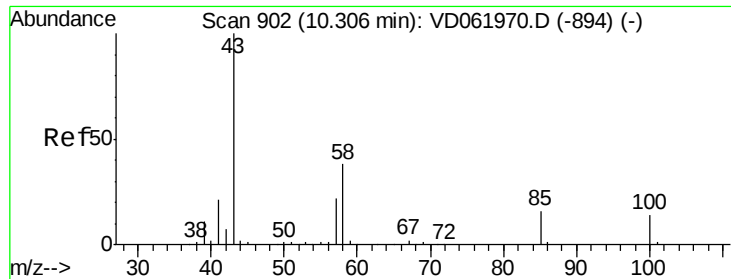
100 69.4 53.8 80.8



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: 1.142 ug/l

RT: 10.31 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD061977.D

Acq: 23 Apr 2019 18:39

Instrument :

MSVOA_D

ClientSampleId :

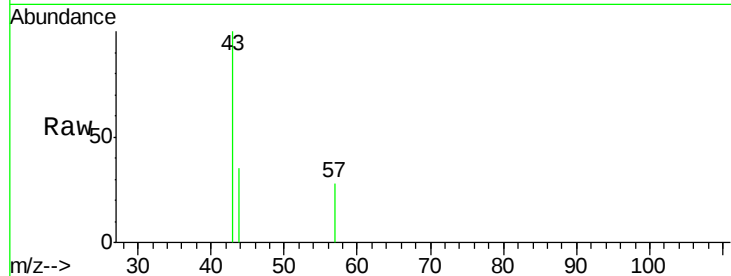
FK-SF-03-007-A

Tot Ion: 43 Resp: 2727

Ion Ratio Lower Upper

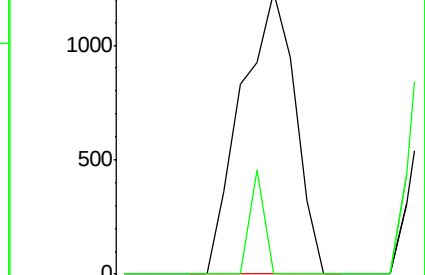
43 100

58 0.0 30.4 45.6#

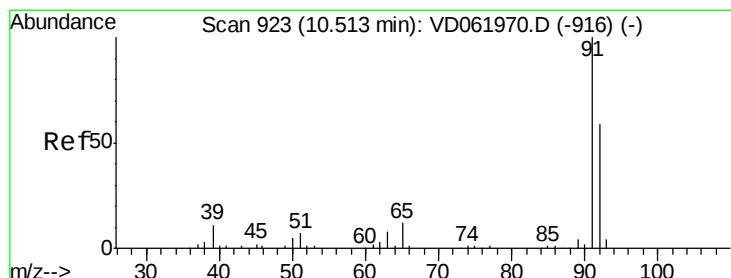
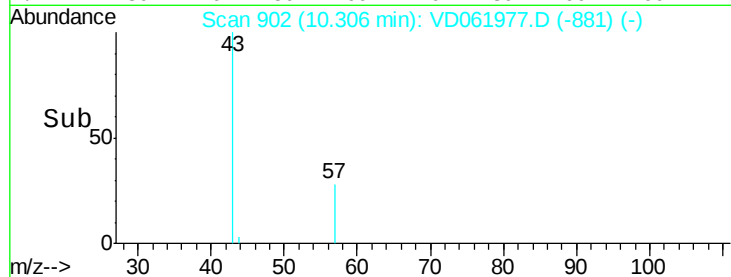


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->



#52

Toluene

Concen: 3.090 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD061977.D

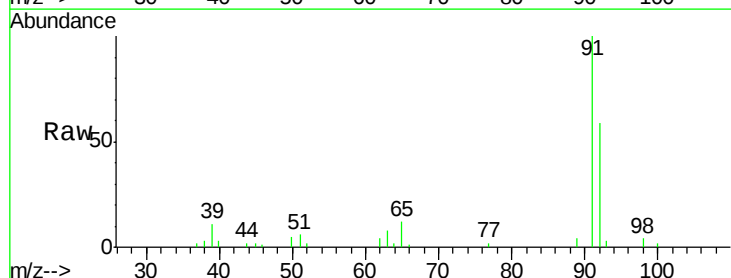
Acq: 23 Apr 2019 18:39

Tgt Ion: 92 Resp: 30579

Ion Ratio Lower Upper

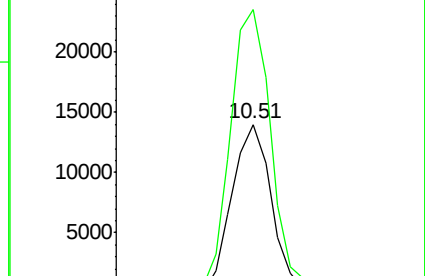
92 100

91 168.1 136.6 204.8

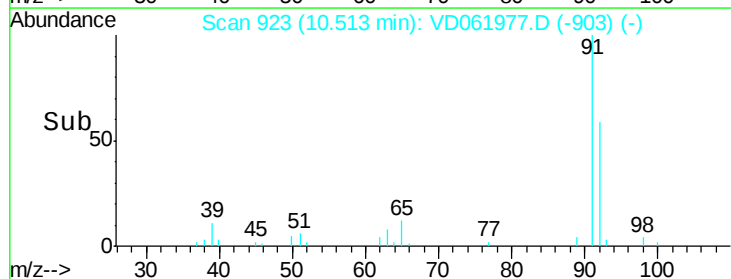


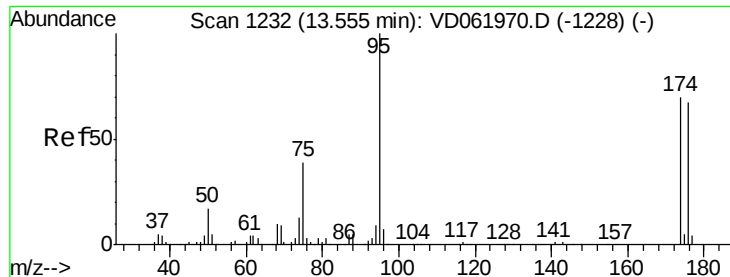
Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



Time-->





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061977.D

Acq: 23 Apr 2019 18:39

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-007-A

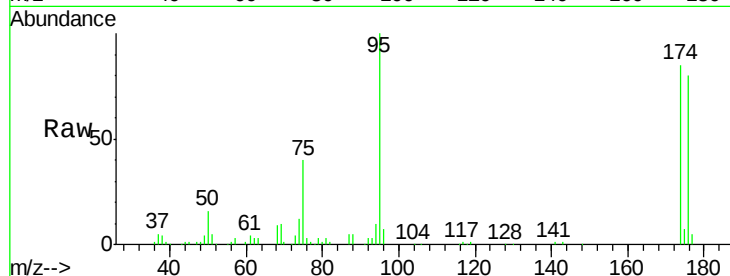
Tot Ion: 95 Resp: 185424

Ion Ratio Lower Upper

95 100

174 85.0 0.0 181.8

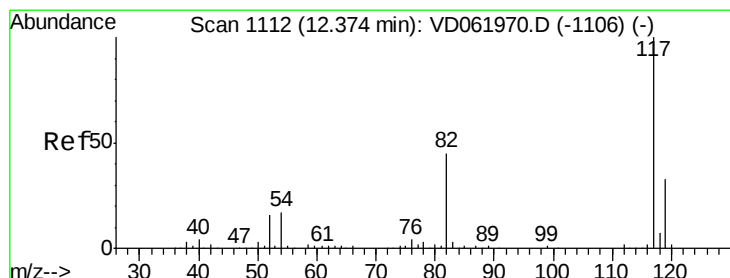
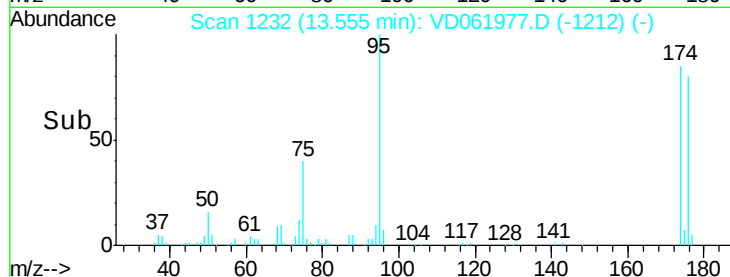
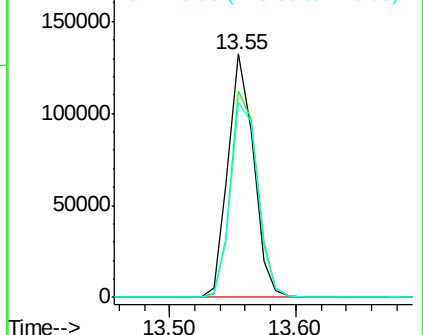
176 80.0 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD061977.D

Acq: 23 Apr 2019 18:39

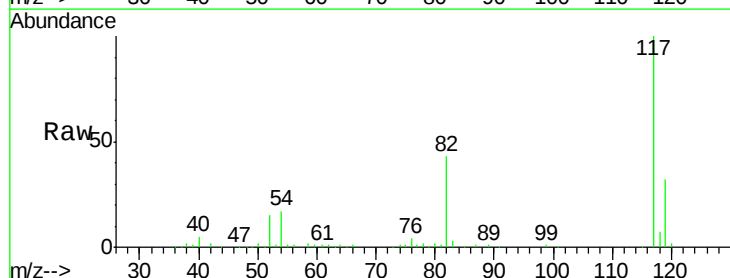
Tgt Ion: 117 Resp: 540469

Ion Ratio Lower Upper

117 100

82 42.7 36.2 54.2

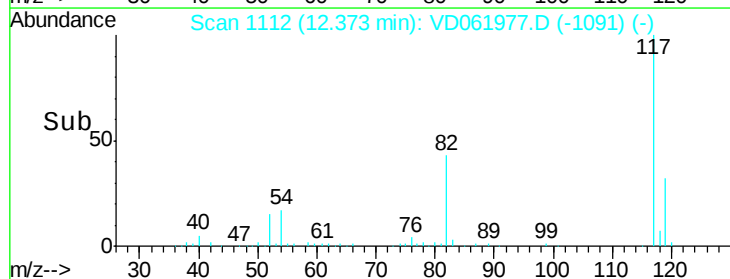
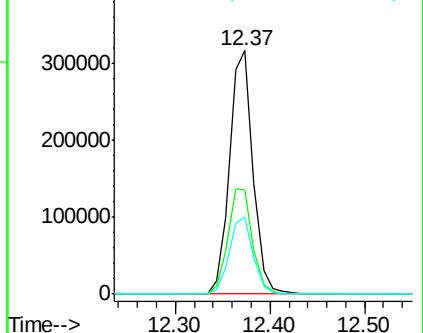
119 31.6 26.2 39.4

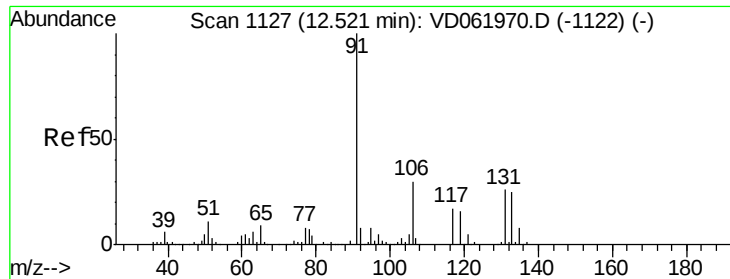


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

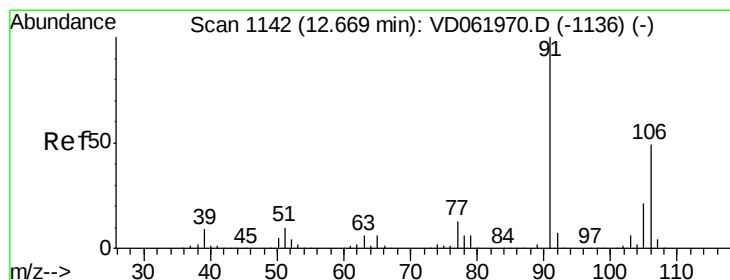
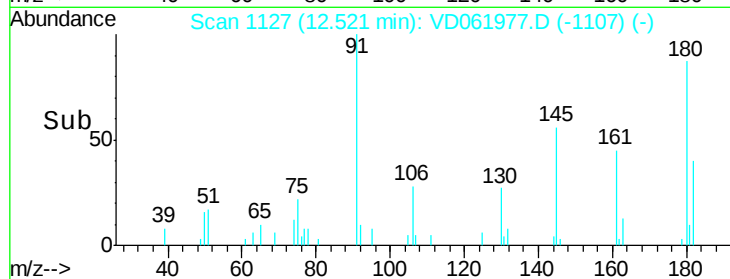
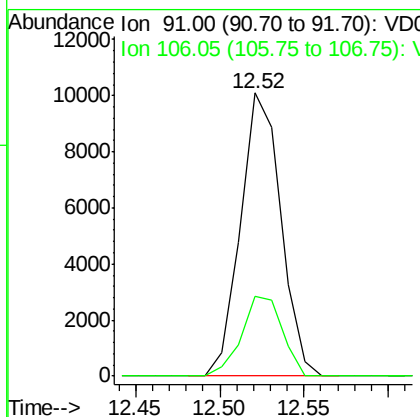
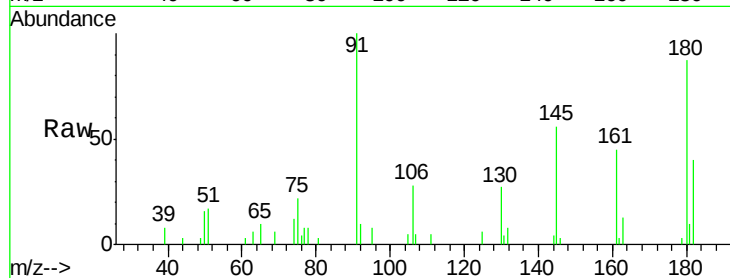




#67
Ethyl Benzene
Concen: 1.004 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.00 min
Lab File: VD061977.D
Acq: 23 Apr 2019 18:39

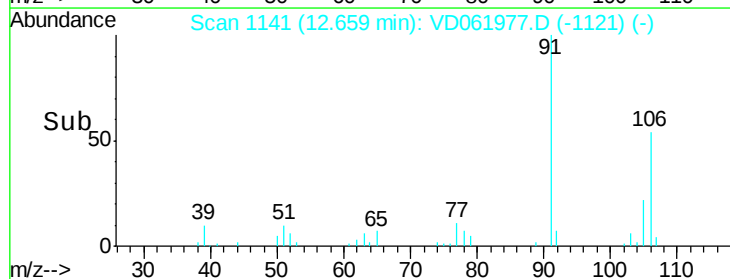
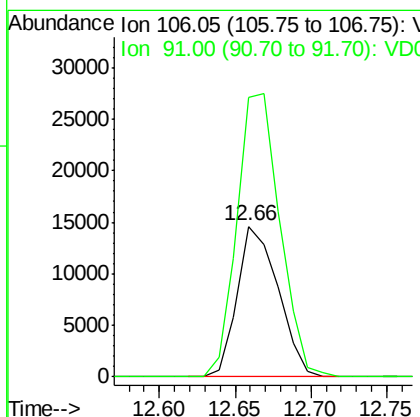
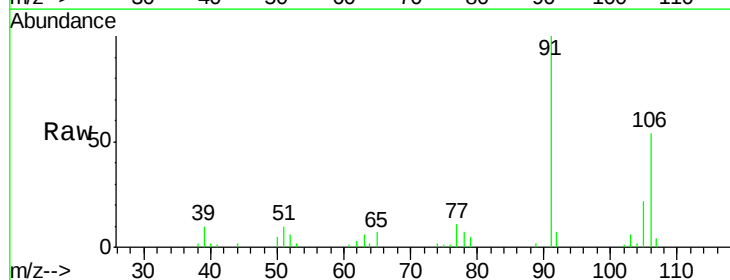
Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-007-A

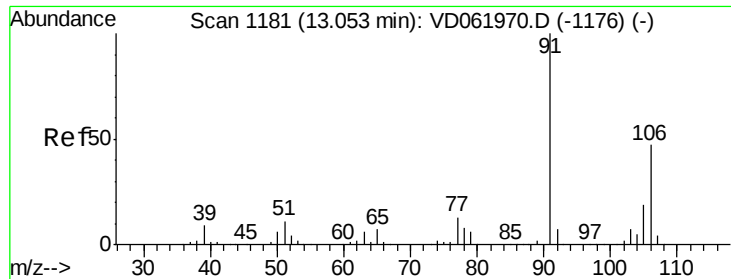
Tot Ion: 91 Resp: 16733
Ion Ratio Lower Upper
91 100
106 28.3 24.7 37.1



#68
m/p-Xylenes
Concen: 4.549 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VD061977.D
Acq: 23 Apr 2019 18:39

Tgt Ion: 106 Resp: 27404
Ion Ratio Lower Upper
106 100
91 185.8 164.0 246.0

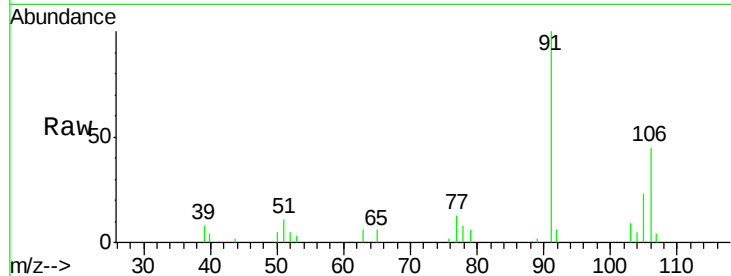




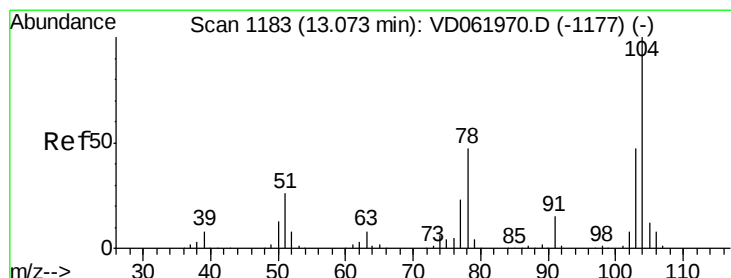
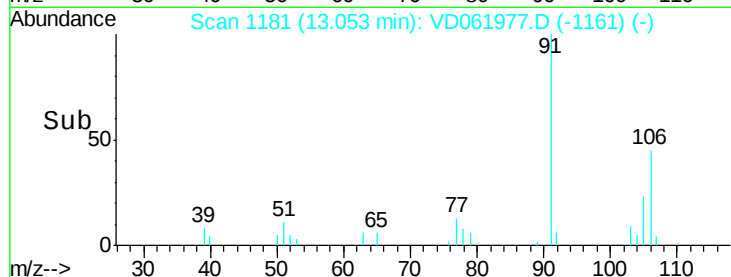
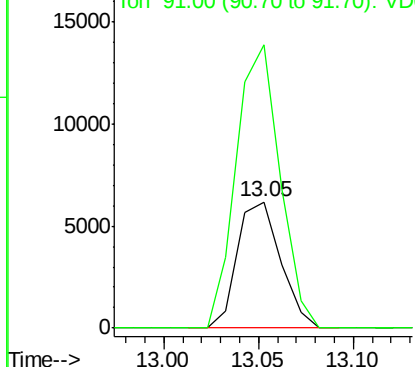
#69
o-Xylene
Concen: 1.783 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD061977.D
Acq: 23 Apr 2019 18:39

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-007-A

Tot Ion:106 Resp: 9826
Ion Ratio Lower Upper
106 100
91 223.8 106.7 319.9

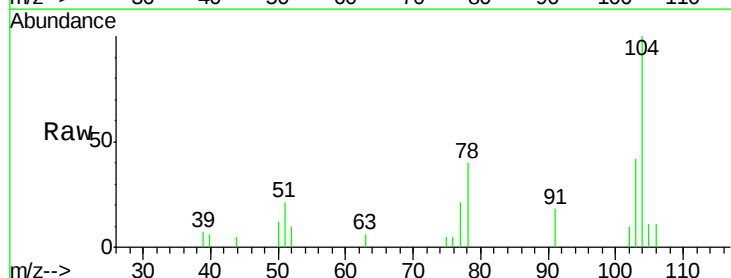


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

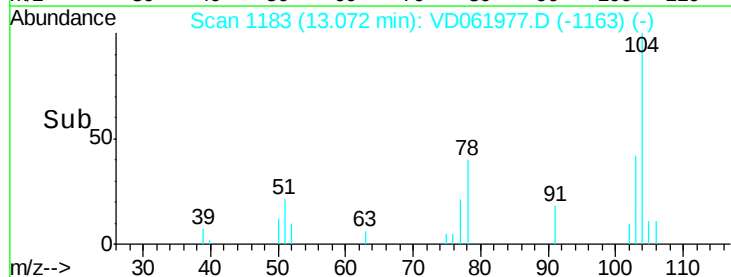
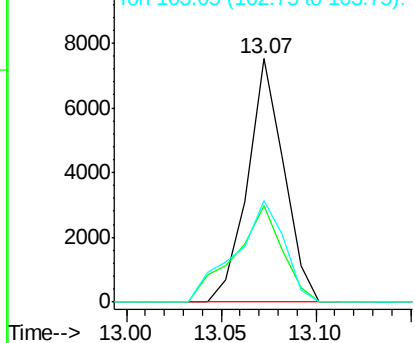


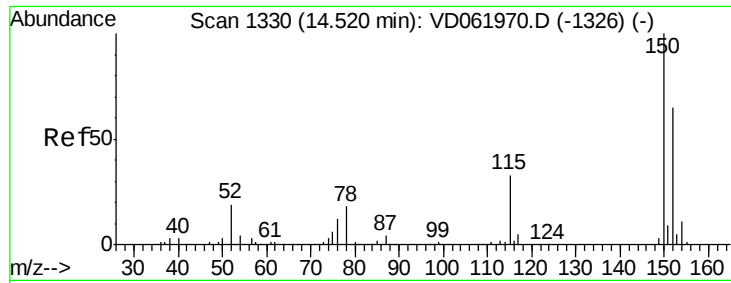
#70
Styrene
Concen: 1.050 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD061977.D
Acq: 23 Apr 2019 18:39

Tgt Ion:104 Resp: 9994
Ion Ratio Lower Upper
104 100
78 39.8 35.4 53.2
103 41.8 37.5 56.3



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD061977.D

Acq: 23 Apr 2019 18:39

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-007-A

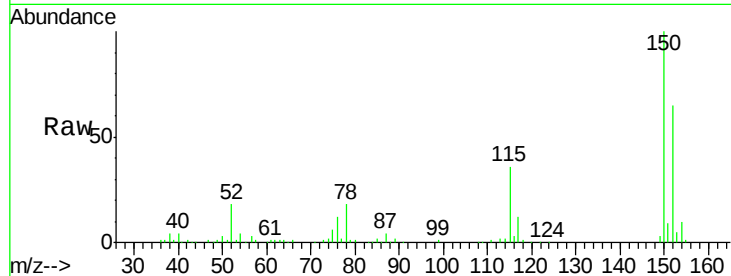
Tot Ion:152 Resp: 165687

Ion Ratio Lower Upper

152 100

115 54.8 30.9 92.7

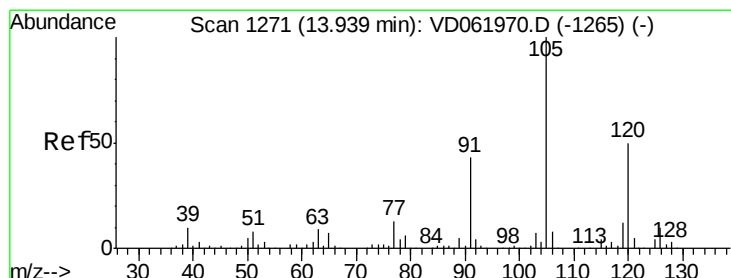
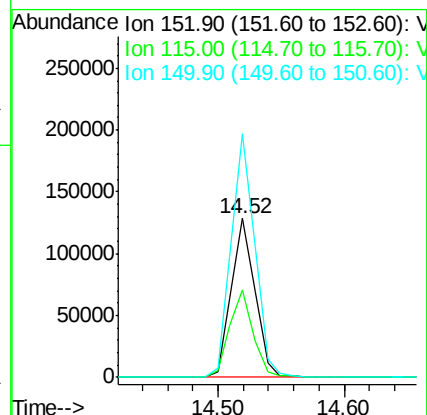
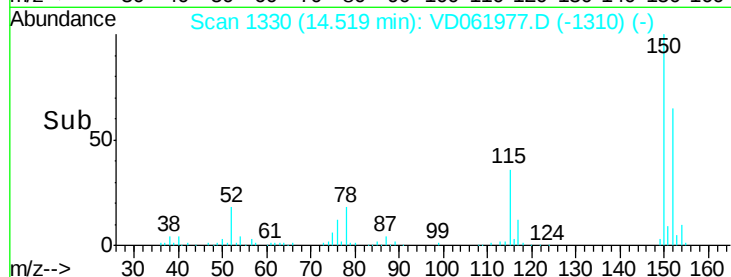
150 153.2 0.0 314.8



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: 1.890 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD061977.D

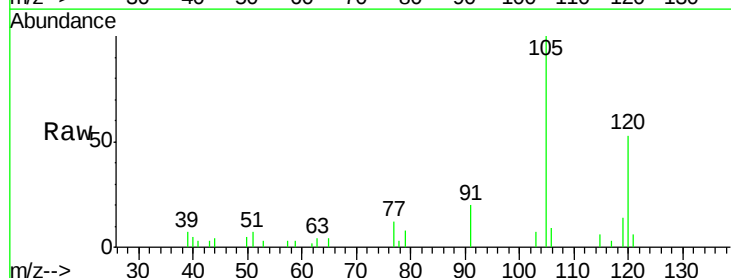
Acq: 23 Apr 2019 18:39

Tgt Ion:105 Resp: 16656

Ion Ratio Lower Upper

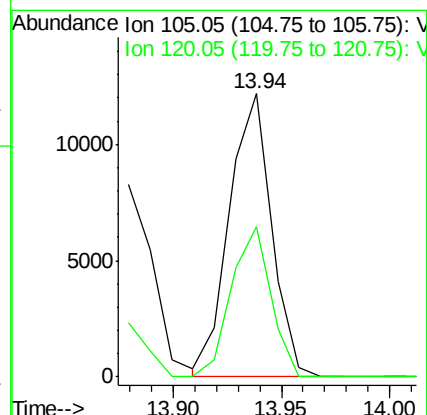
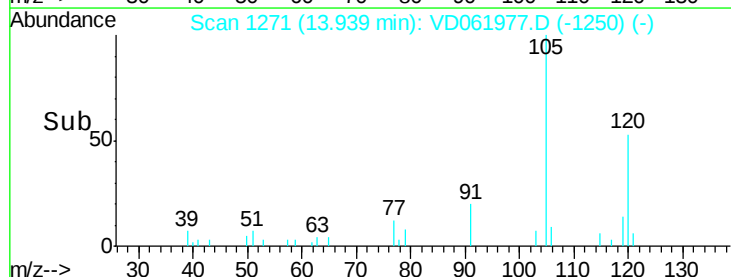
105 100

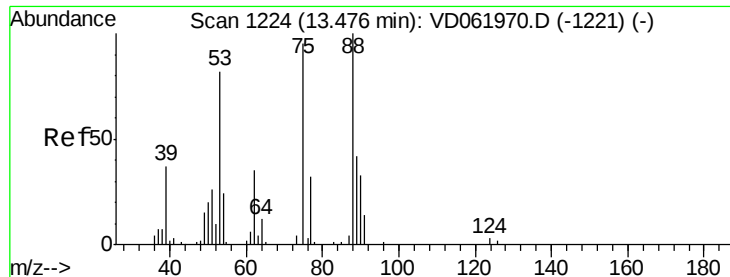
120 52.9 24.0 72.0



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: 113.537 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD061977.D

Acq: 23 Apr 2019 18:39

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-007-A

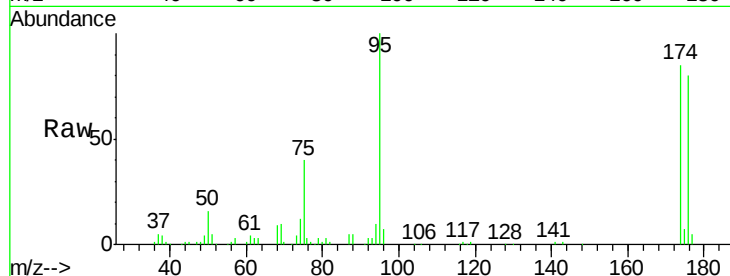
Tot Ion: 75 Resp: 72390

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

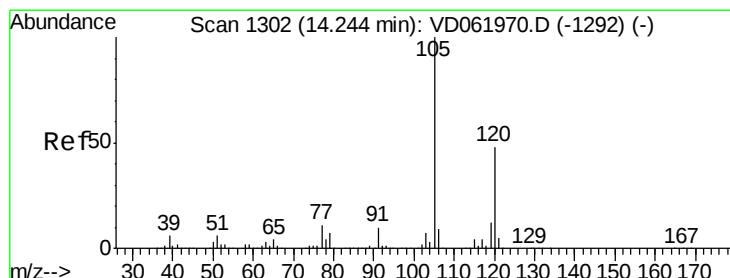
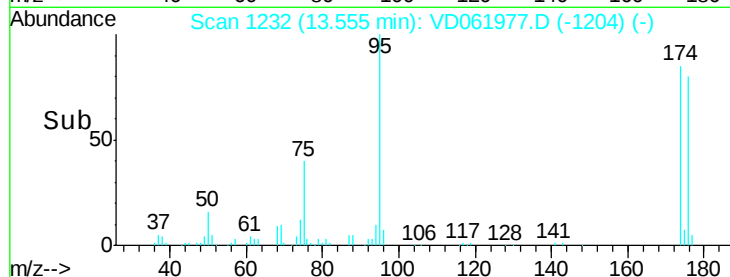
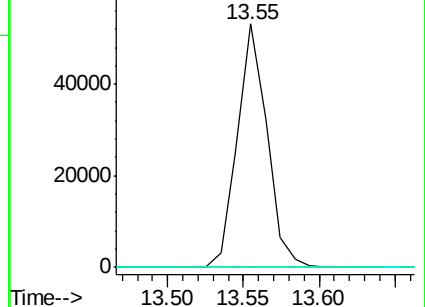
89 0.0 35.0 52.6#



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



#84

1,2,4-Trimethylbenzene

Concen: 5.622 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VD061977.D

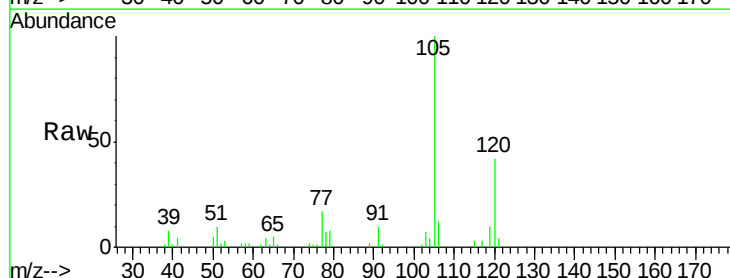
Acq: 23 Apr 2019 18:39

Tgt Ion:105 Resp: 47312

Ion Ratio Lower Upper

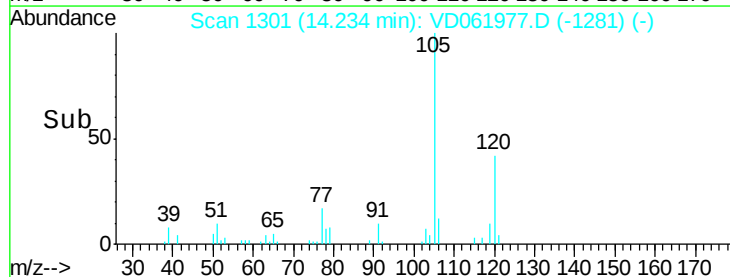
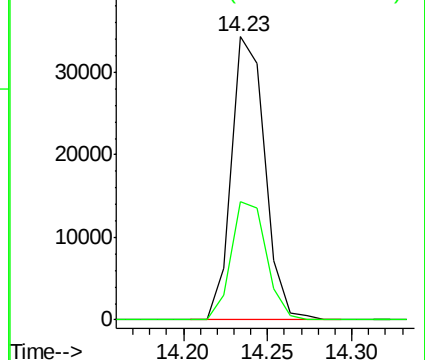
105 100

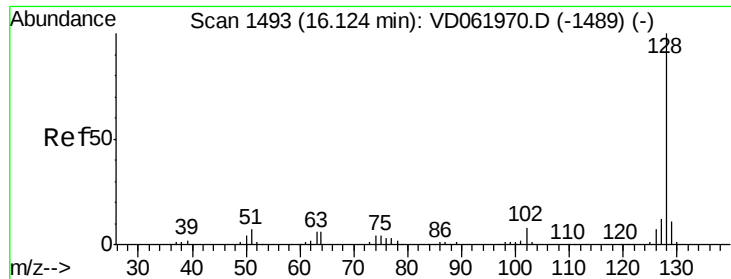
120 41.6 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#95

Naphthalene

Concen: 16.741 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD061977.D

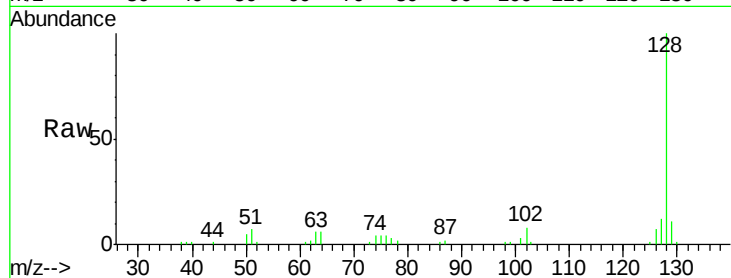
Acq: 23 Apr 2019 18:39

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-007-A



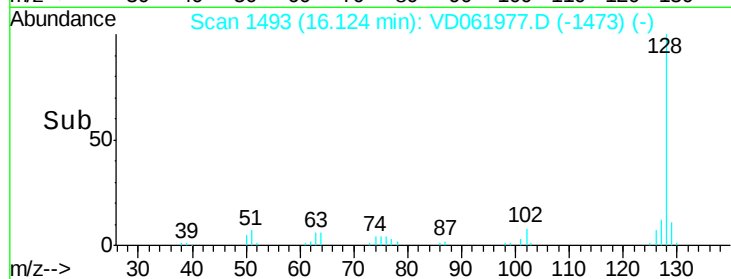
Tot Ion:128 Resp: 66795

Ion Ratio Lower Upper

128 100

127 12.3 9.8 14.8

129 11.3 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

