

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042319\
 Data File : VD061980.D
 Acq On : 23 Apr 2019 20:08
 Operator : VA/AP
 Sample : K2539-04
 Misc : 4.48g/5ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-006-B

Quant Time: Apr 24 02:13:00 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	363836	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	761841	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	513326	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	164525	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	188733	66.28	ug/l	0.00
Spiked Amount			Recovery	=	132.56%	
35) Dibromofluoromethane	7.04	113	188	0.04	ug/l	0.11
Spiked Amount			Recovery	=	0.08%	
50) Toluene-d8	10.42	98	576171	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	
62) 4-Bromofluorobenzene	13.56	95	179397	35.68	ug/l	0.00
Spiked Amount			Recovery	=	71.36%	

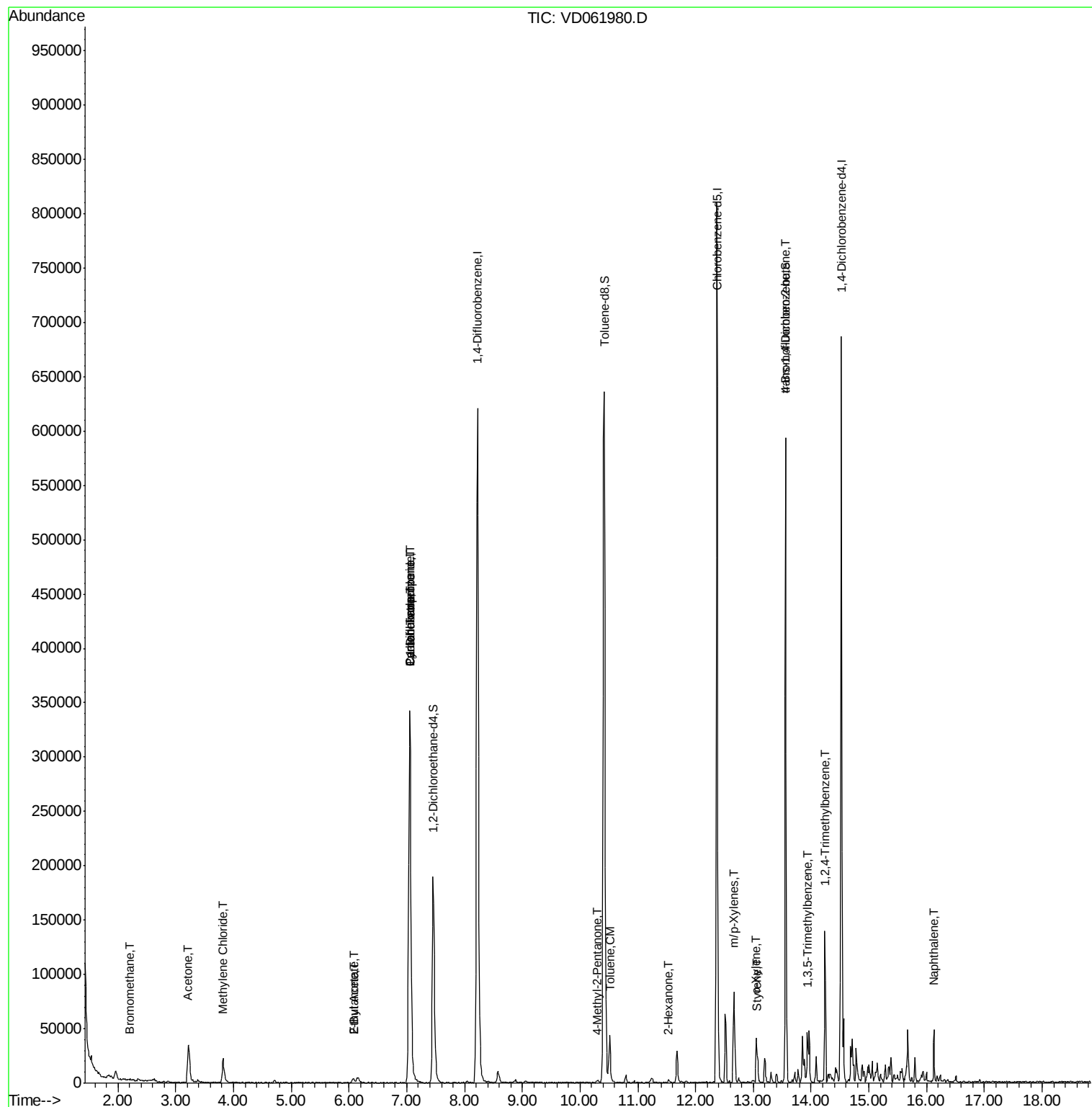
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.20	94	1398	1.320	ug/l #	12
16) Acetone	3.22	43	68645	100.961	ug/l	98
20) Methylene Chloride	3.82	84	15932	1.735	ug/l	92
25) 2-Butanone	6.08	43	9428	11.437	ug/l	96
31) Cyclohexane	7.05	56	6461	1.523	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	26483	4.462	ug/l #	48
37) Ethyl Acetate	6.08	43	9428	3.727	ug/l #	64
38) Carbon Tetrachloride	7.05	117	34490	4.586	ug/l #	17
51) 4-Methyl-2-Pentanone	10.31	43	3484	1.541	ug/l	95
52) Toluene	10.52	92	23351	2.492	ug/l	97
59) 2-Hexanone	11.53	43	2738	1.615	ug/l	85
68) m/p-Xylenes	12.66	106	27749	4.849	ug/l	90
69) o-Xylene	13.05	106	11097	2.120	ug/l	97
70) Styrene	13.08	104	9840	1.088	ug/l	91
80) 1,3,5-Trimethylbenzene	13.93	105	21126	2.414	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.56	75	66565	105.139	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	64184	7.681	ug/l	93
95) Naphthalene	16.13	128	35101	8.859	ug/l	98

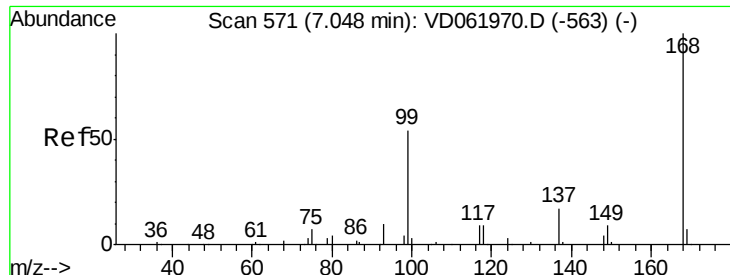
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.00 min

Lab File: VD061980.D

Acq: 23 Apr 2019 20:08

Instrument :

MSVOA_D

ClientSampleId :

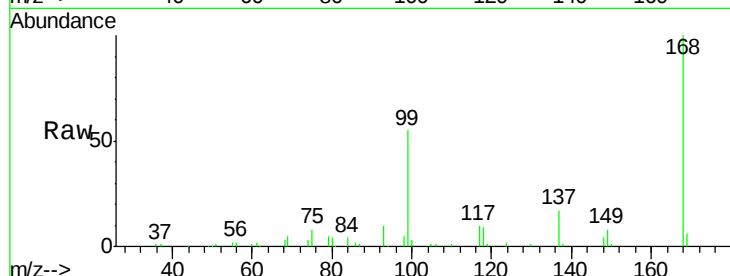
FK-SF-03-006-B

Tot Ion:168 Resp: 363836

Ion Ratio Lower Upper

168 100

99 55.1 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

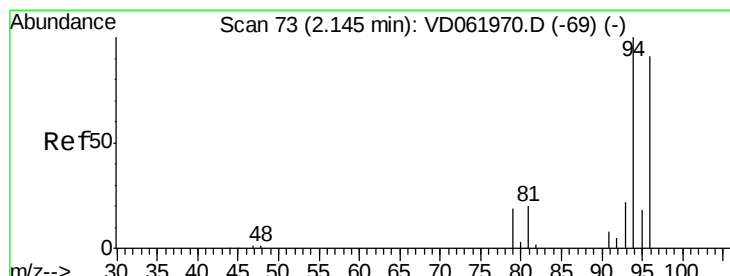
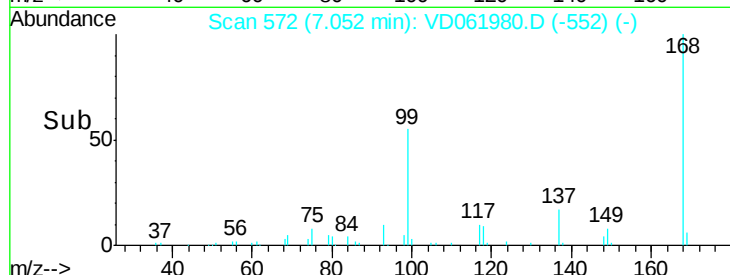
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 1.320 ug/l

RT: 2.20 min Scan# 79

Delta R.T. 0.04 min

Lab File: VD061980.D

Acq: 23 Apr 2019 20:08

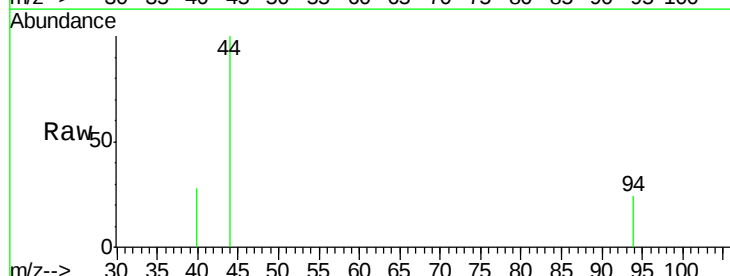
Tgt Ion: 94 Resp: 1398

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



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

2.20

600

500

400

300

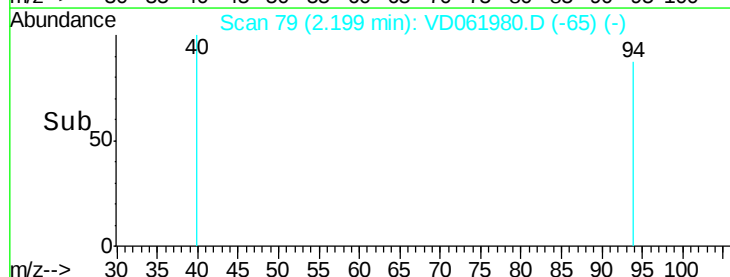
200

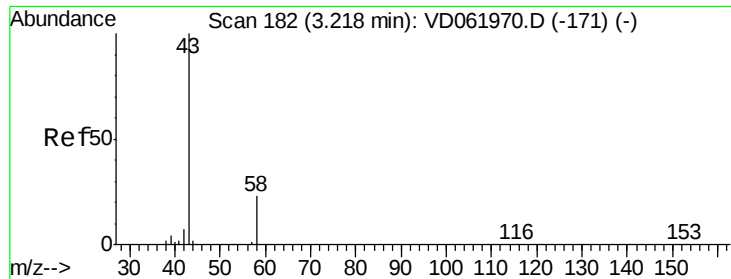
100

0

Time-->

2.15 2.20





#16

Acetone

Concen: 100.961 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD061980.D

Acq: 23 Apr 2019 20:08

Instrument :

MSVOA_D

ClientSampleId :

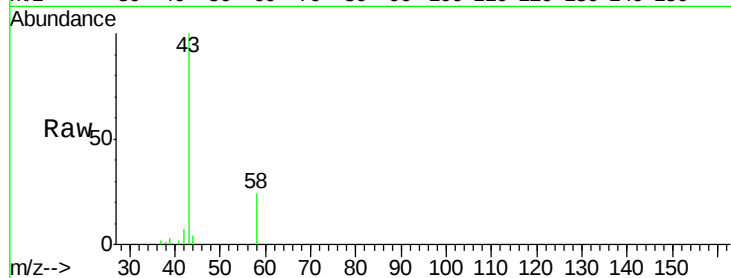
FK-SF-03-006-B

Tot Ion: 43 Resp: 68645

Ion Ratio Lower Upper

43 100

58 23.7 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.22

25000

20000

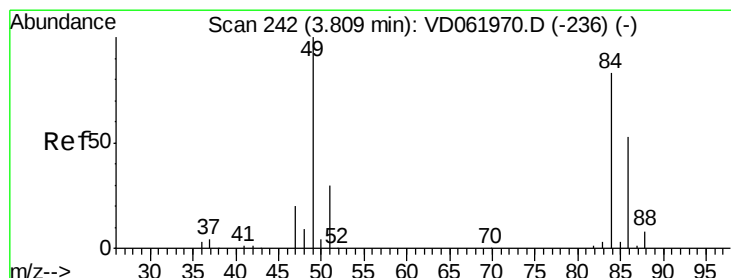
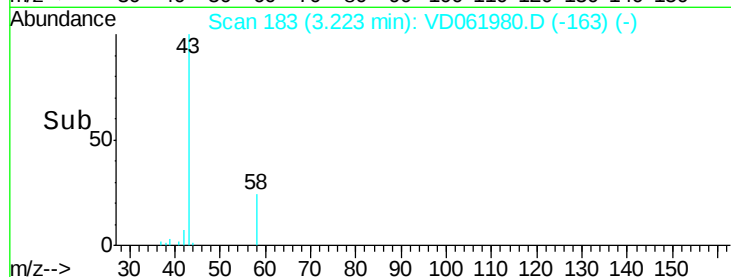
15000

10000

5000

0

Time--> 3.10 3.20 3.30 3.40



#20

Methylene Chloride

Concen: 1.735 ug/l

RT: 3.82 min Scan# 244

Delta R.T. 0.00 min

Lab File: VD061980.D

Acq: 23 Apr 2019 20:08

Tgt Ion: 84 Resp: 15932

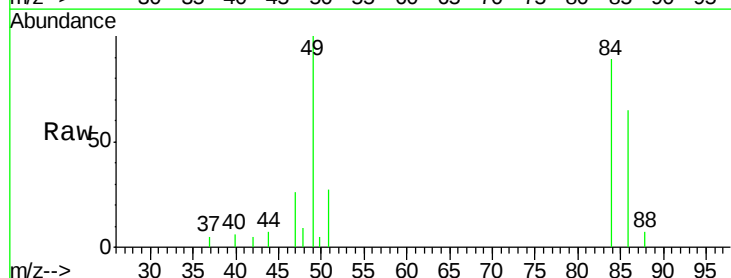
Ion Ratio Lower Upper

84 100

49 112.2 94.0 141.0

51 29.9 29.0 43.4

86 72.6 49.8 74.6



Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

3.82

10000

8000

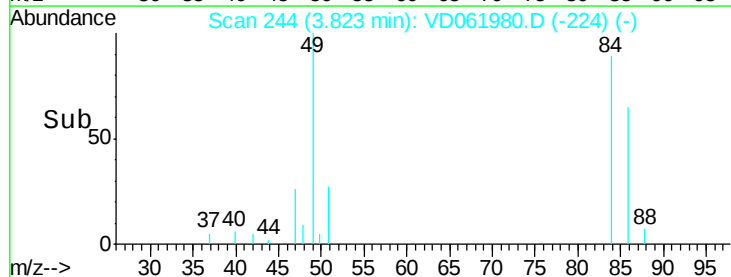
6000

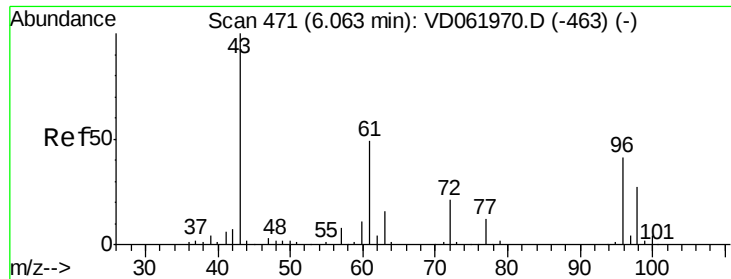
4000

2000

0

Time--> 3.80 3.90

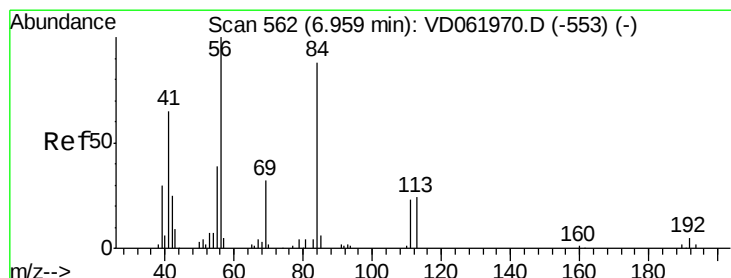
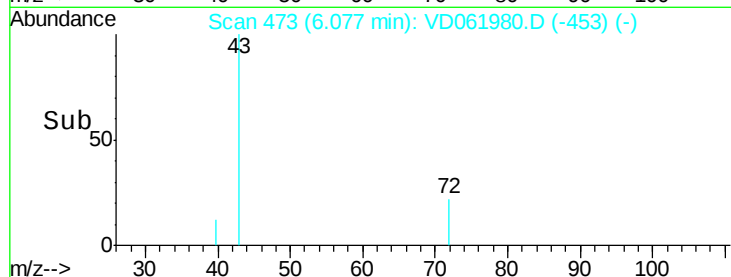
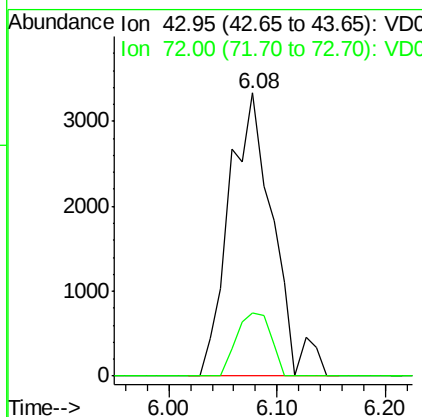
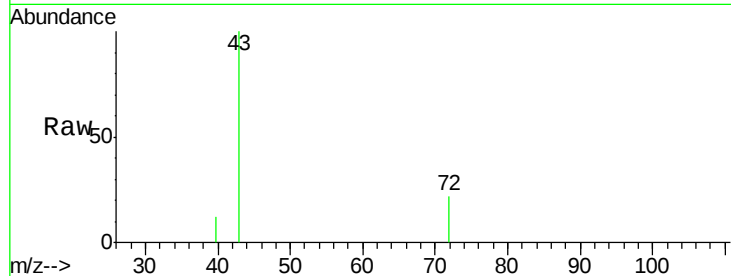




#25
2-Butanone
Concen: 11.437 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.00 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

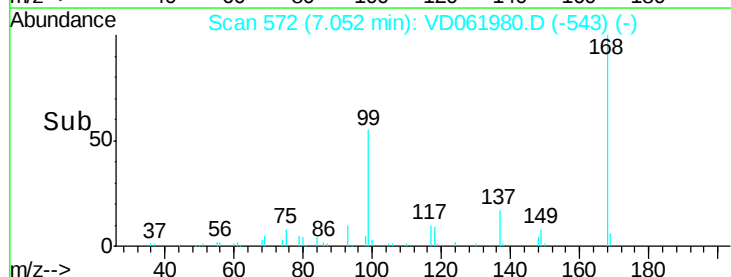
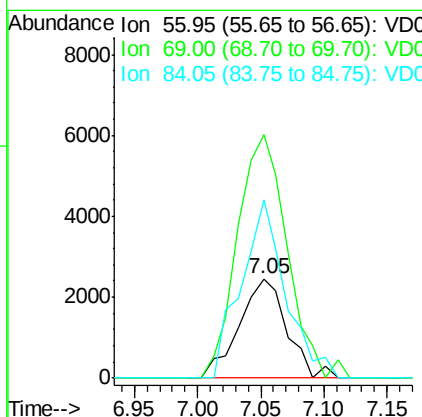
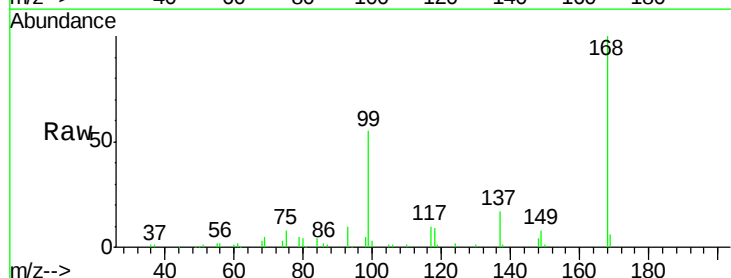
Instrument :
MSVOA_D
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FK-SF-03-006-B

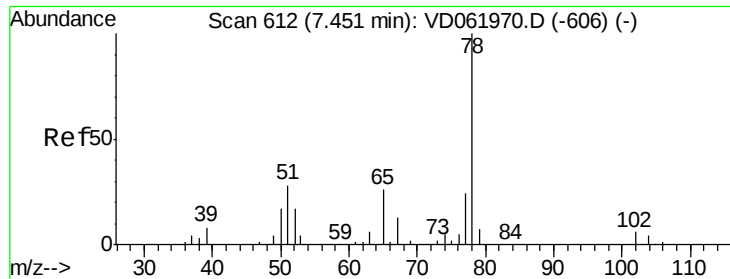
Tot Ion: 43 Resp: 9428
Ion Ratio Lower Upper
43 100
72 22.3 16.2 24.4



#31
Cyclohexane
Concen: 1.523 ug/l
RT: 7.05 min Scan# 572
Delta R.T. 0.09 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

Tgt Ion: 56 Resp: 6461
Ion Ratio Lower Upper
56 100
69 245.0 25.8 38.6#
84 180.1 72.2 108.4#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD061980.D

Acq: 23 Apr 2019 20:08

Instrument :

MSVOA_D

ClientSampleId :

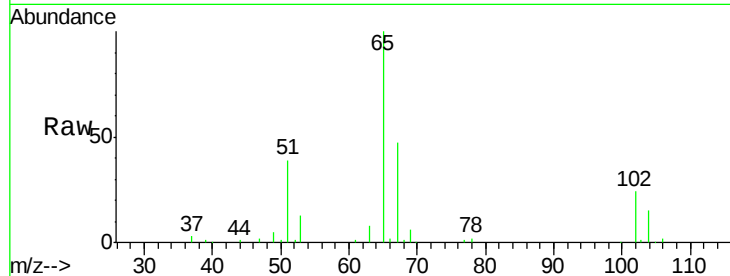
FK-SF-03-006-B

Tot Ion: 65 Resp: 188733

Ion Ratio Lower Upper

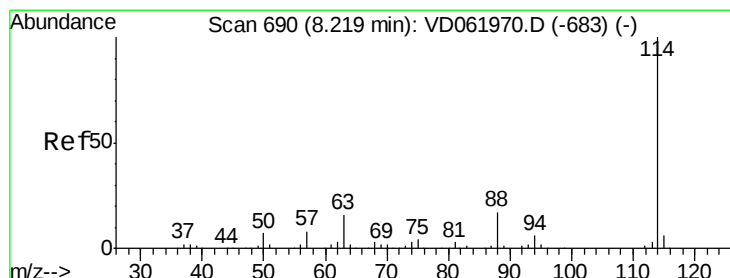
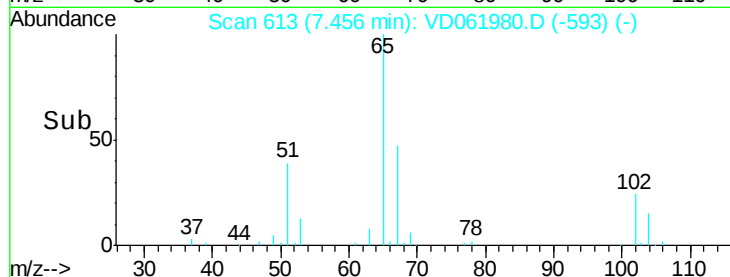
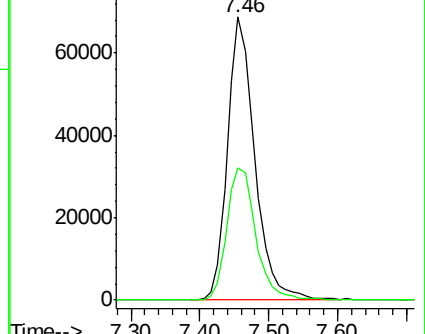
65 100

67 46.9 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# 691

Delta R.T. -0.00 min

Lab File: VD061980.D

Acq: 23 Apr 2019 20:08

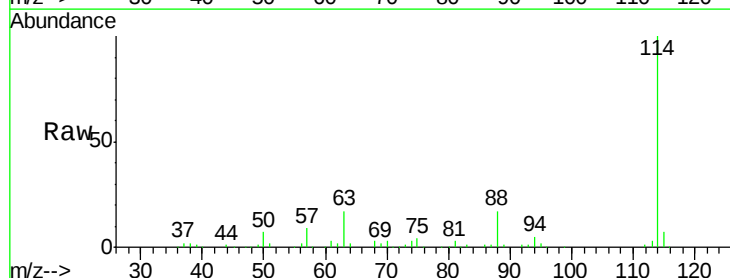
Tgt Ion: 114 Resp: 761841

Ion Ratio Lower Upper

114 100

63 16.6 0.0 32.4

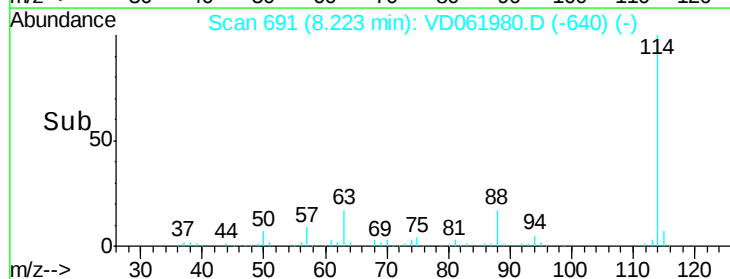
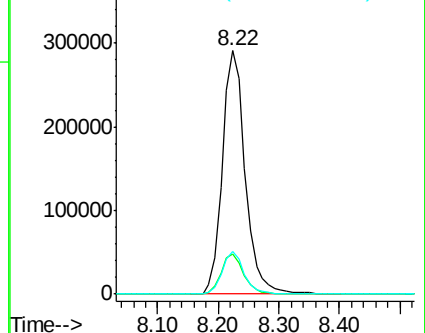
88 17.3 0.0 33.6

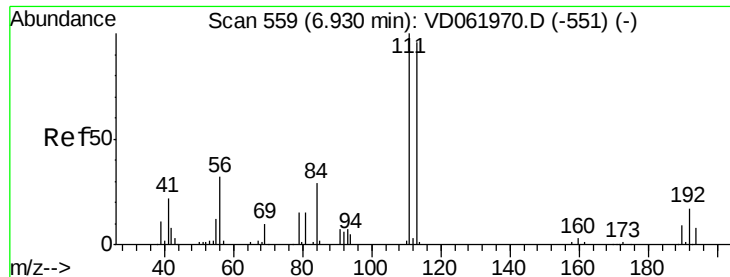


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD061980.D

Acq: 23 Apr 2019 20:08

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-006-B

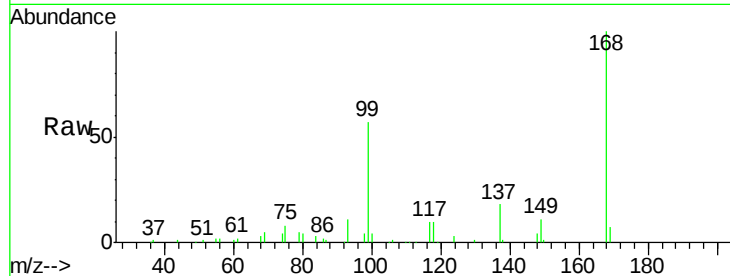
Tot Ion:113 Resp: 188

Ion Ratio Lower Upper

113 100

111 116.3 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

500

400

300

200

100

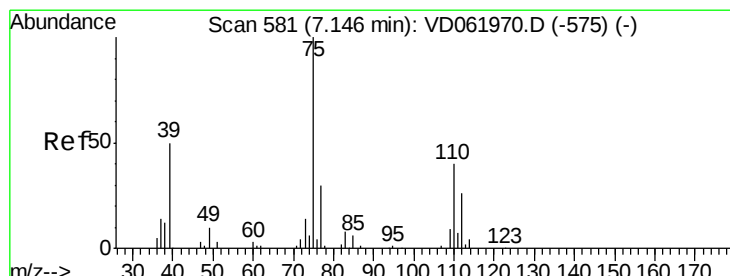
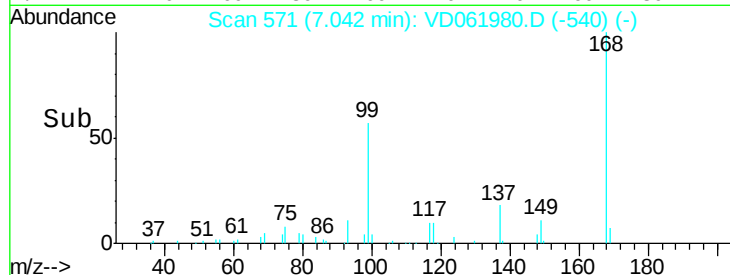
0

7.02

7.04

7.06

Time-->



#36

1,1-Dichloropropene

Concen: 4.462 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.10 min

Lab File: VD061980.D

Acq: 23 Apr 2019 20:08

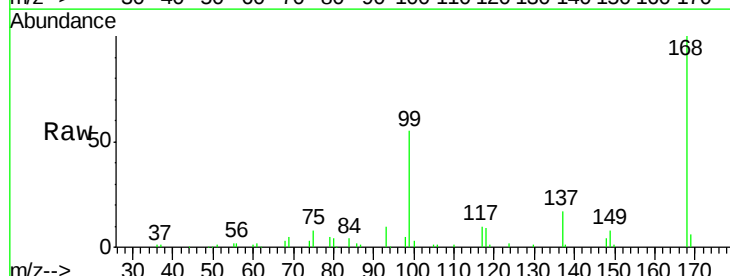
Tgt Ion: 75 Resp: 26483

Ion Ratio Lower Upper

75 100

110 9.9 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): V

Ion 76.95 (76.65 to 77.65): VDC

10000

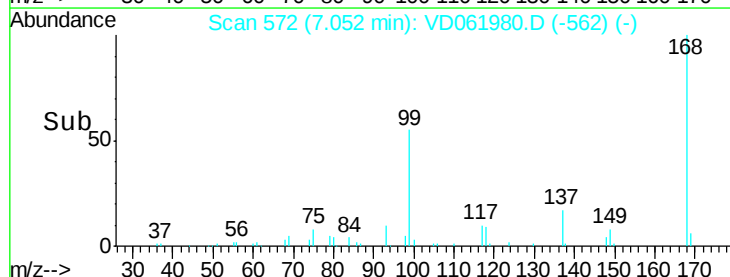
5000

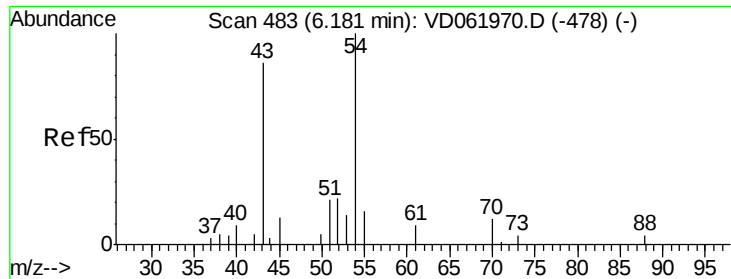
0

7.00

7.10

Time-->

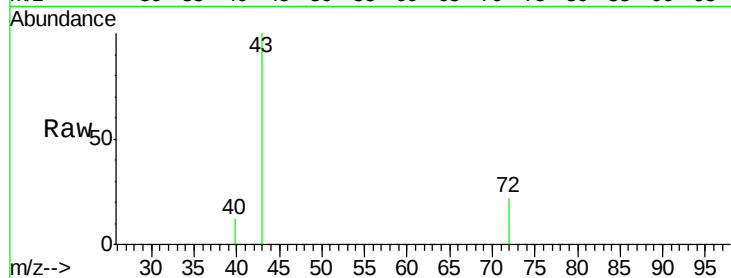




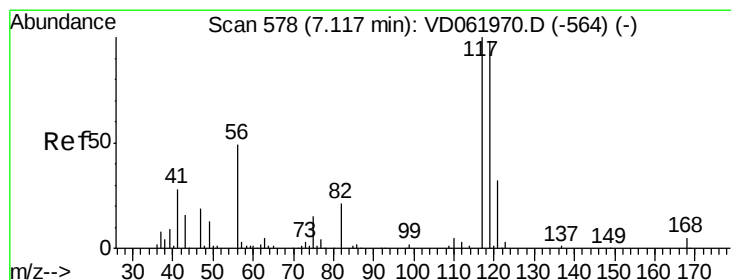
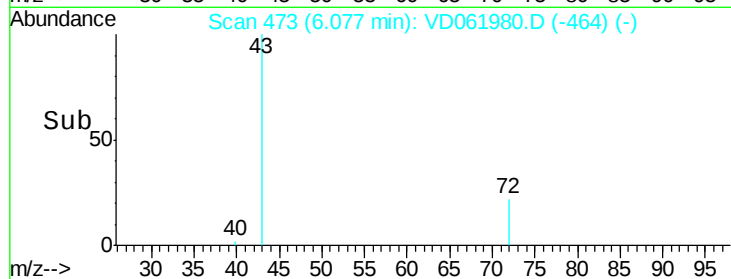
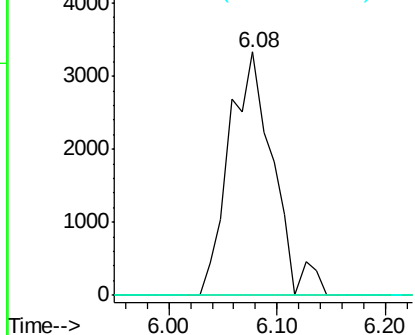
#37
Ethyl Acetate
Concen: 3.727 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.11 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

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FK-SF-03-006-B

Tot Ion: 43 Resp: 9428
Ion Ratio Lower Upper
43 100
61 0.0 14.7 22.1#
70 0.0 7.8 11.6#

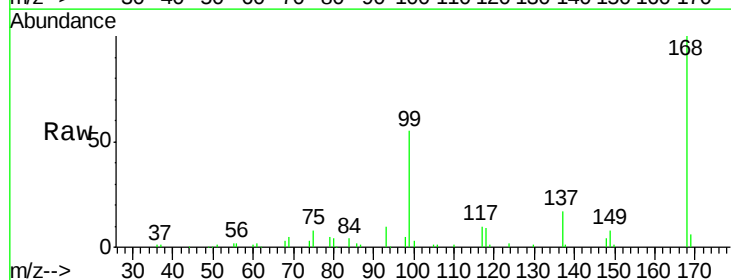


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

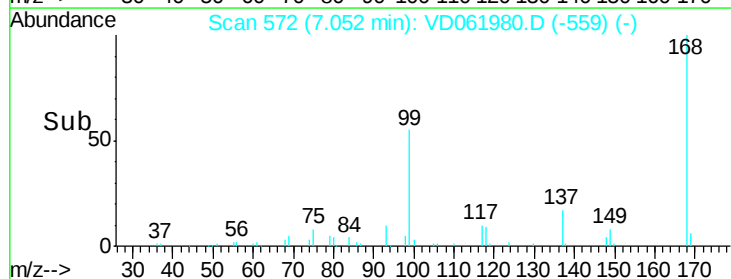
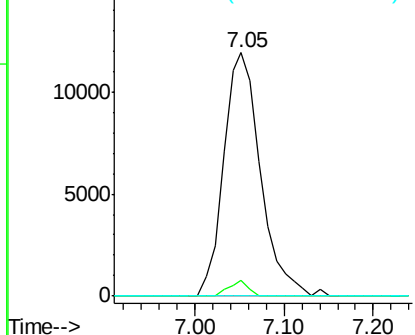


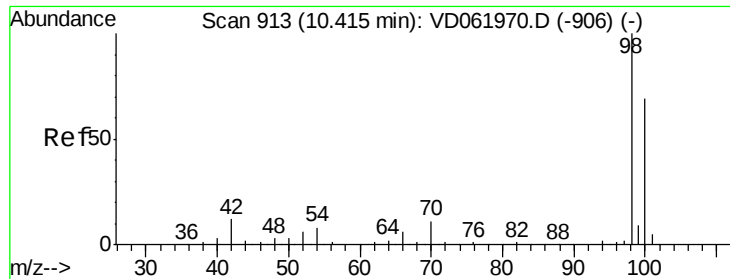
#38
Carbon Tetrachloride
Concen: 4.586 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.07 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

Tgt Ion: 117 Resp: 34490
Ion Ratio Lower Upper
117 100
119 6.3 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

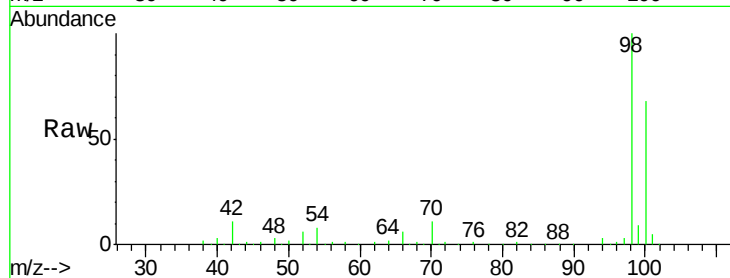




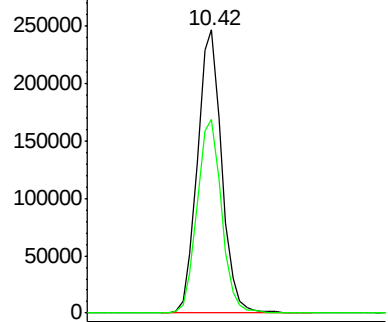
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. -0.00 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-006-B

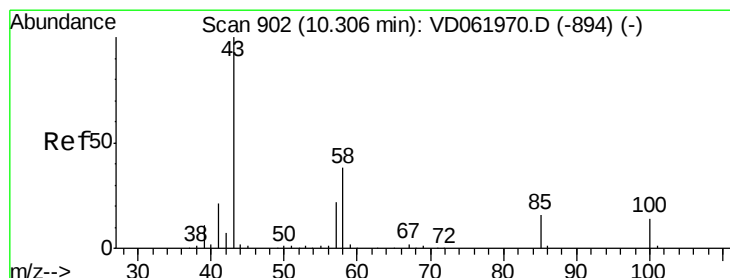
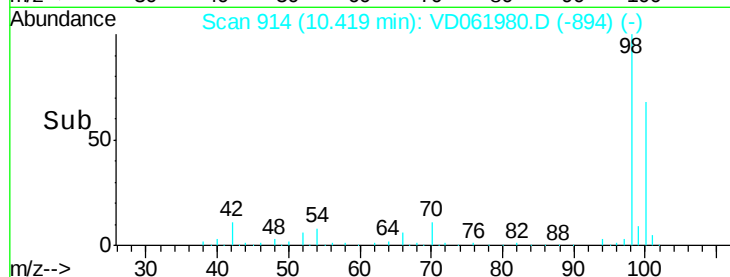
Tot Ion: 98 Resp: 576171
Ion Ratio Lower Upper
98 100
100 68.3 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VD061970.D (-906) (-)
Ion 100.05 (99.75 to 100.75): VD061970.D (-906) (-)

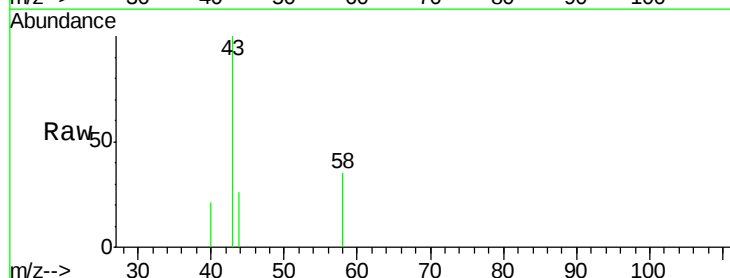


Time-->

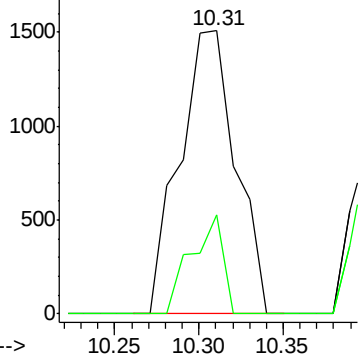


#51
4-Methyl-2-Pentanone
Concen: 1.541 ug/l
RT: 10.31 min Scan# 903
Delta R.T. 0.01 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

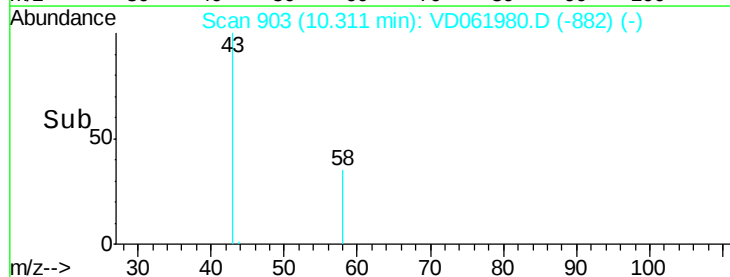
Tgt Ion: 43 Resp: 3484
Ion Ratio Lower Upper
43 100
58 34.9 30.4 45.6

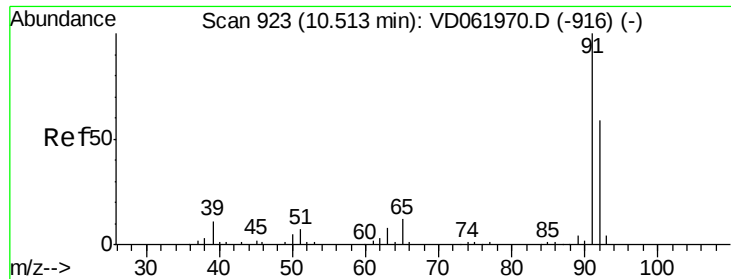


Abundance Ion 42.95 (42.65 to 43.65): VD061970.D (-894) (-)
Ion 57.95 (57.65 to 58.65): VD061970.D (-894) (-)



Time-->





#52

Toluene

Concen: 2.492 ug/l

RT: 10.52 min Scan# 924

Delta R.T. -0.00 min

Lab File: VD061980.D

Acq: 23 Apr 2019 20:08

Instrument :

MSVOA_D

ClientSampleId :

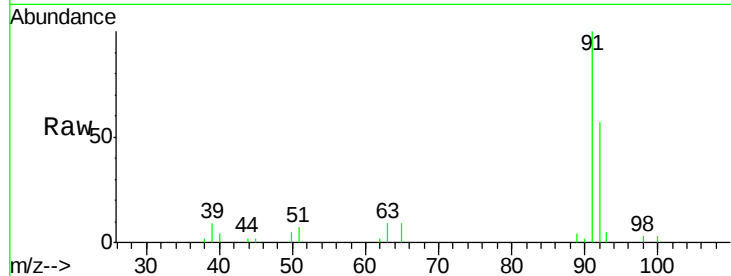
FK-SF-03-006-B

Tot Ion: 92 Resp: 23351

Ion Ratio Lower Upper

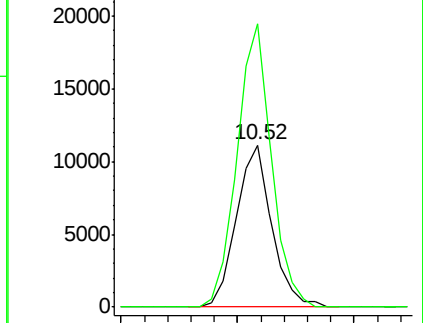
92 100

91 174.4 136.6 204.8

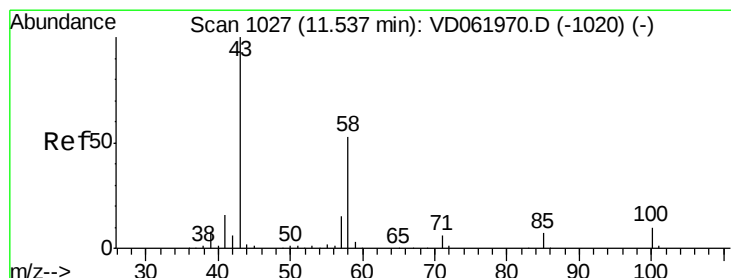
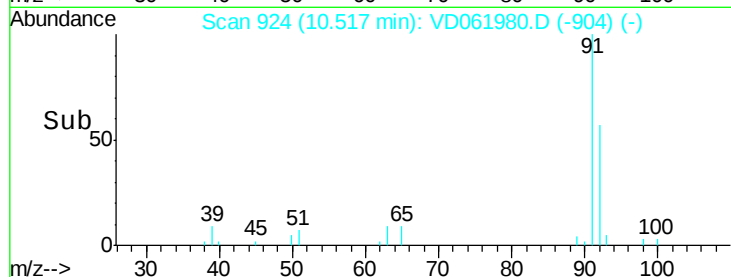


Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



Time--> 10.40 10.50 10.60



#59

2-Hexanone

Concen: 1.615 ug/l

RT: 11.53 min Scan# 1027

Delta R.T. -0.00 min

Lab File: VD061980.D

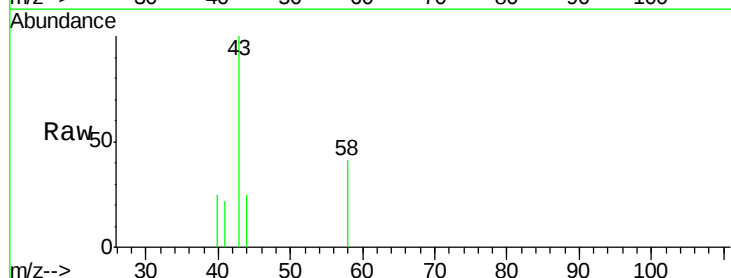
Acq: 23 Apr 2019 20:08

Tgt Ion: 43 Resp: 2738

Ion Ratio Lower Upper

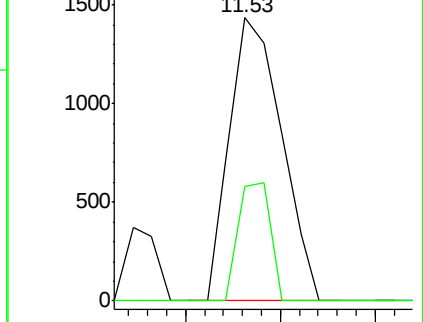
43 100

58 40.7 25.4 76.4

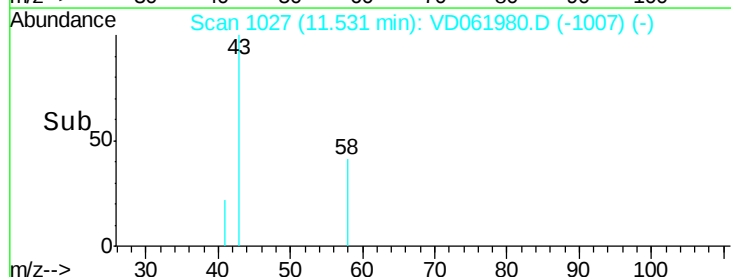


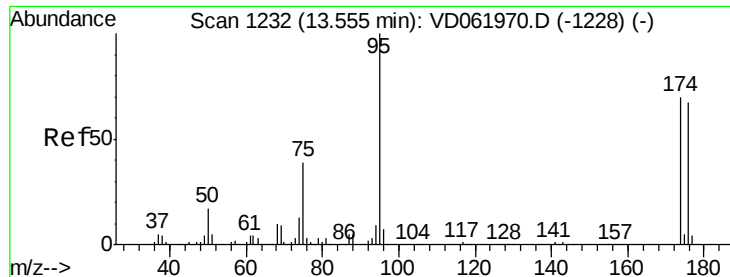
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time--> 11.50 11.55 11.60

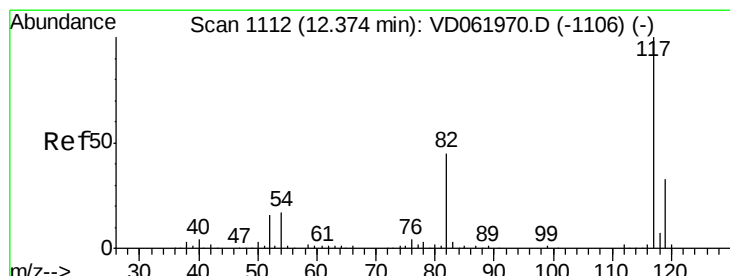
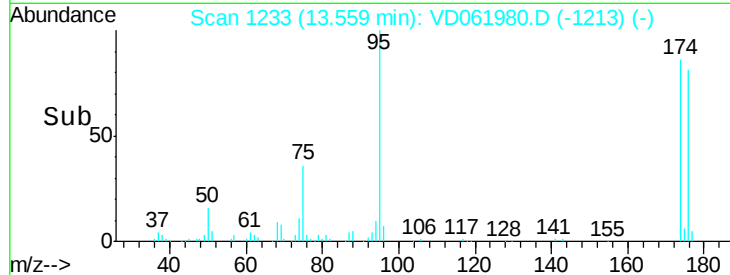
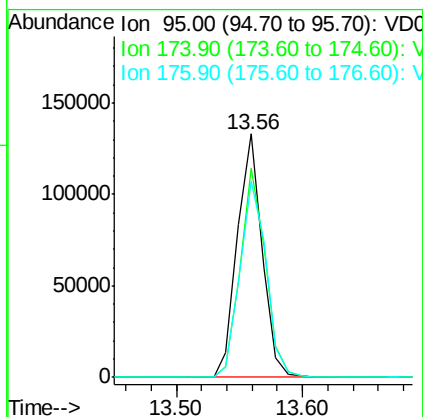
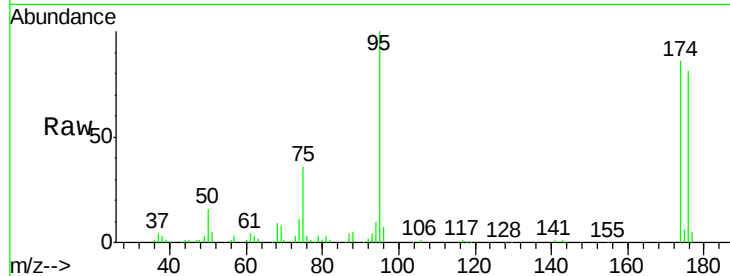




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

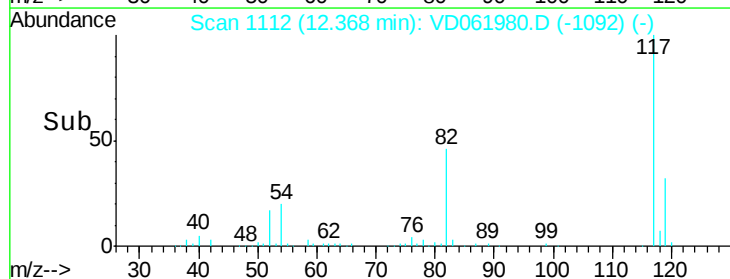
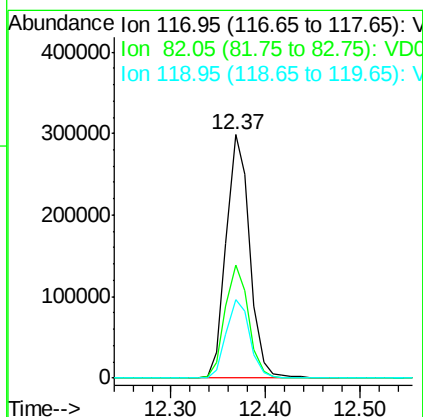
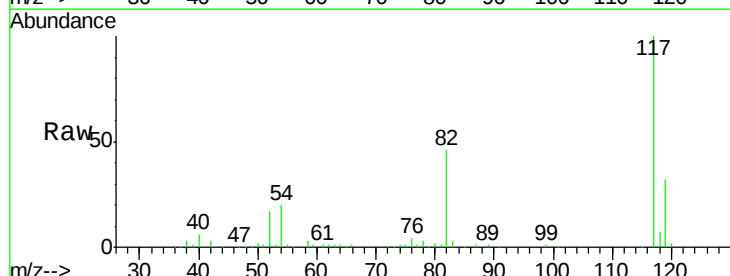
Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-006-B

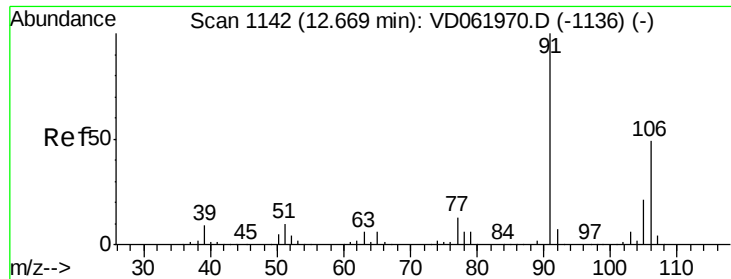
Tot Ion: 95 Resp: 179397
Ion Ratio Lower Upper
95 100
174 85.6 0.0 181.8
176 80.9 0.0 174.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

Tgt Ion: 117 Resp: 513326
Ion Ratio Lower Upper
117 100
82 46.2 36.2 54.2
119 32.4 26.2 39.4

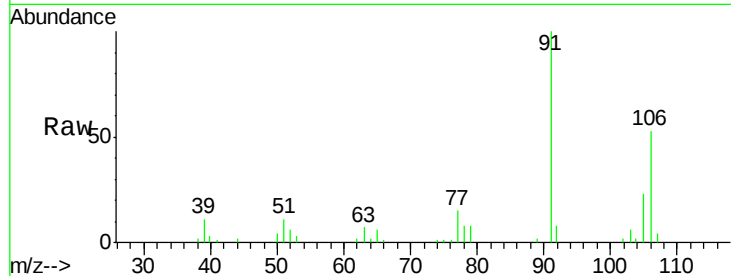




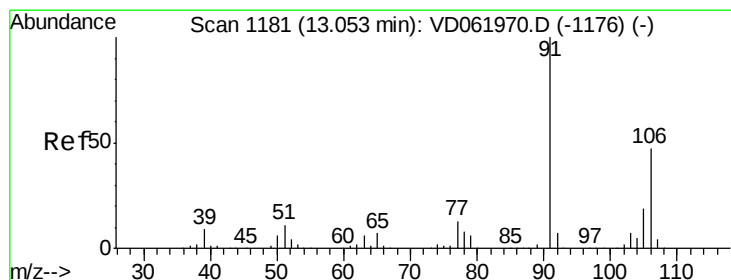
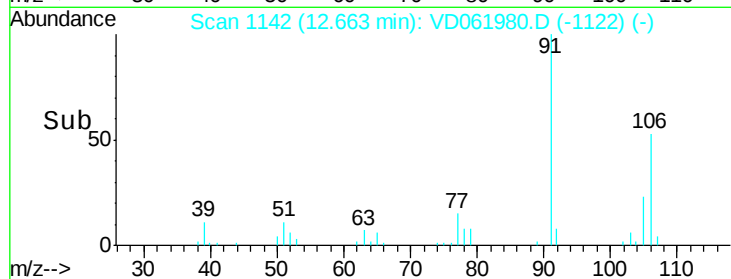
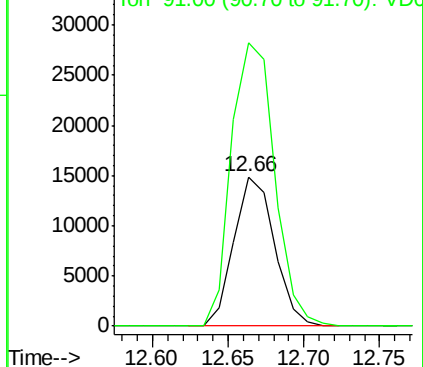
#68
m/p-Xylenes
Concen: 4.849 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-006-B

Tot Ion:106 Resp: 27749
Ion Ratio Lower Upper
106 100
91 189.4 164.0 246.0

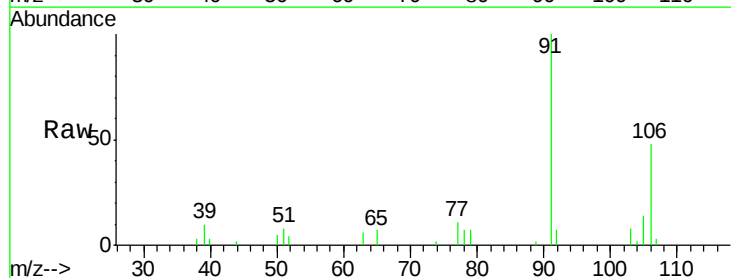


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

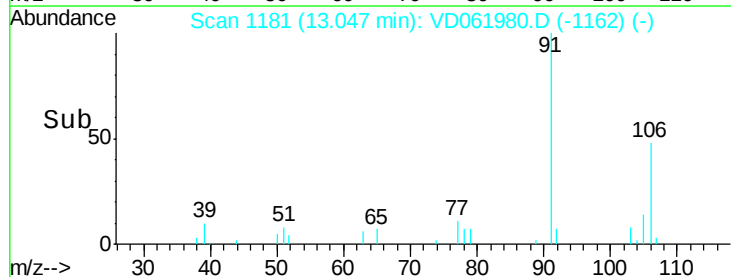
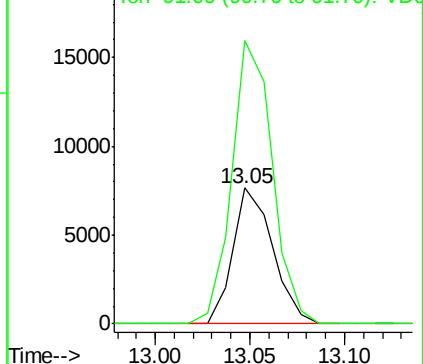


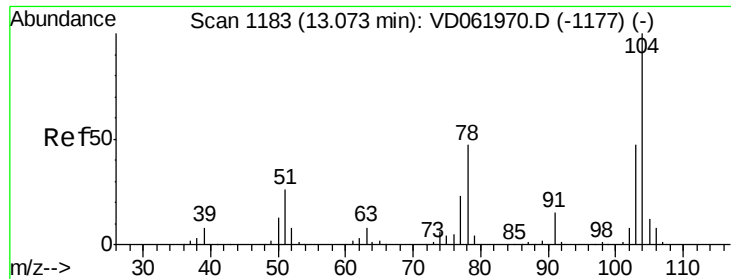
#69
o-Xylene
Concen: 2.120 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

Tgt Ion:106 Resp: 11097
Ion Ratio Lower Upper
106 100
91 208.6 106.7 319.9



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

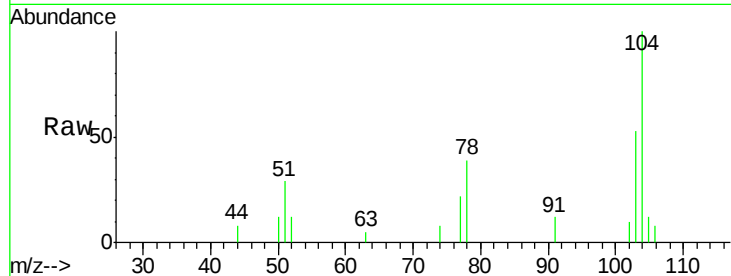




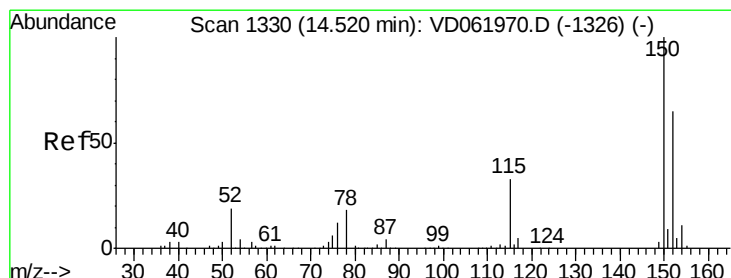
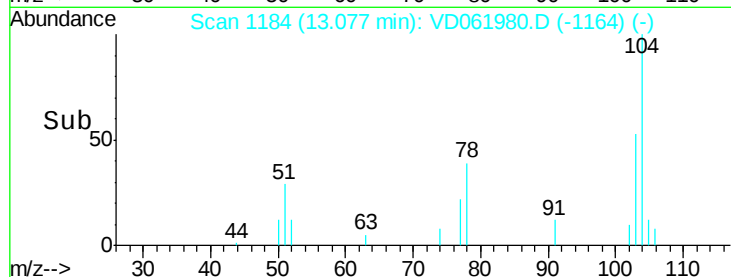
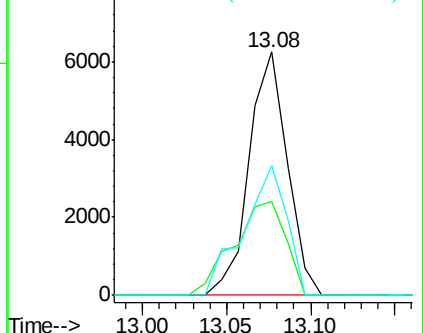
#70
Stvrene
Concen: 1.088 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-006-B

Tot Ion:104 Resp: 9840
Ion Ratio Lower Upper
104 100
78 38.6 35.4 53.2
103 53.2 37.5 56.3

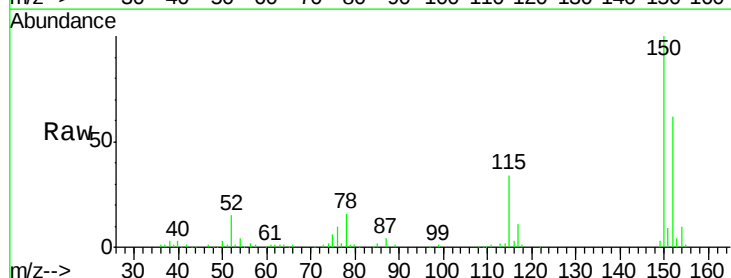


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V

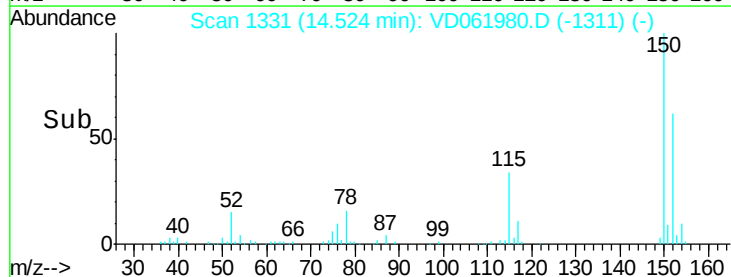
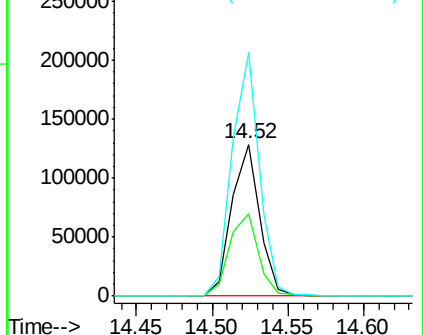


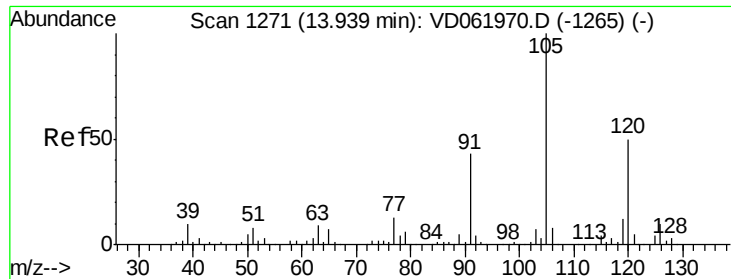
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. -0.00 min
Lab File: VD061980.D
Acq: 23 Apr 2019 20:08

Tgt Ion:152 Resp: 164525
Ion Ratio Lower Upper
152 100
115 54.5 30.9 92.7
150 160.3 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

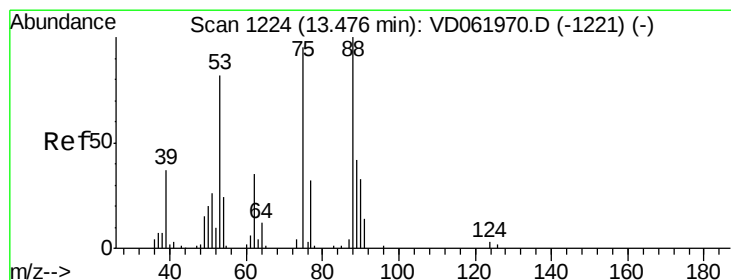
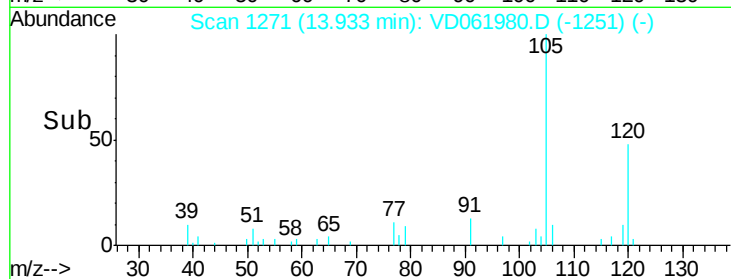
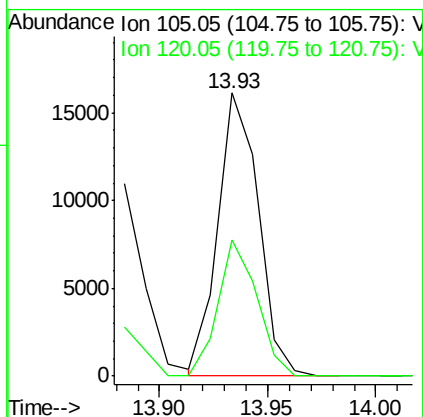
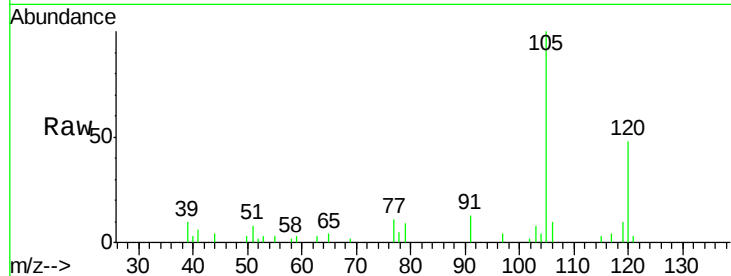




#80
 1,3,5-Trimethylbenzene
 Concen: 2.414 ug/l
 RT: 13.93 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VD061980.D
 Acq: 23 Apr 2019 20:08

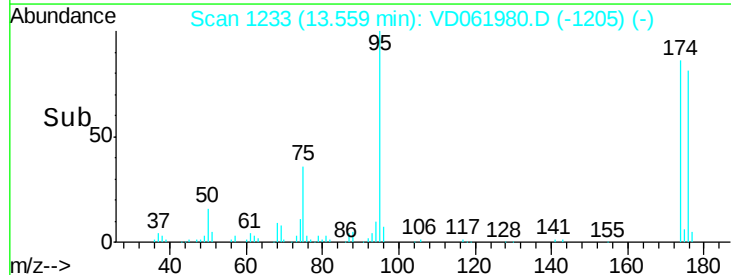
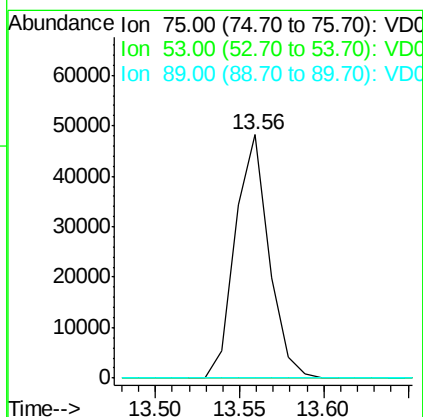
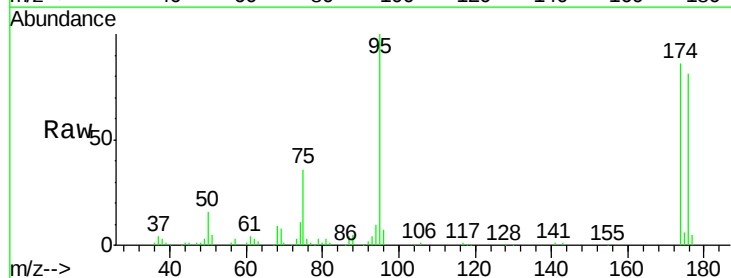
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-006-B

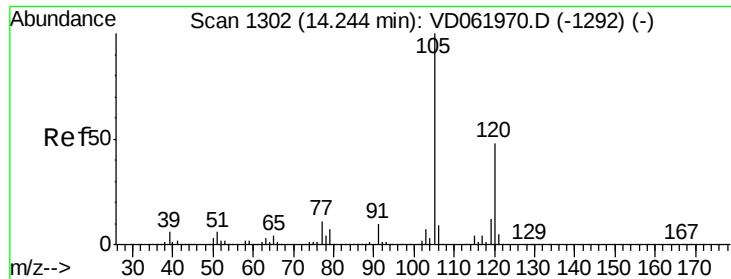
Tot Ion:105 Resp: 21126
 Ion Ratio Lower Upper
 105 100
 120 48.1 24.0 72.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 105.139 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.08 min
 Lab File: VD061980.D
 Acq: 23 Apr 2019 20:08

Tgt Ion: 75 Resp: 66565
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.8 98.8#
 89 0.0 35.0 52.6#

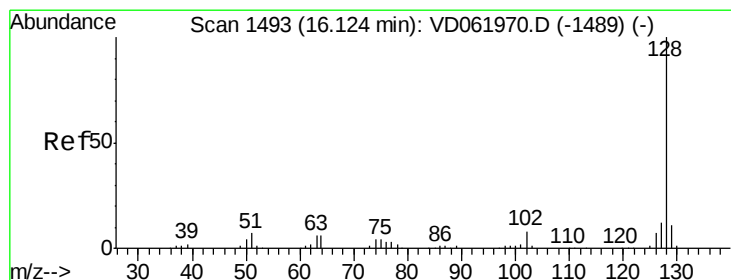
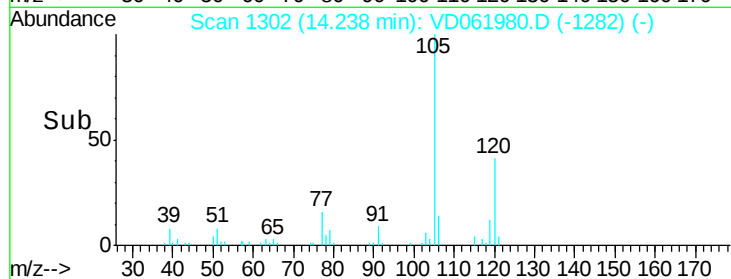
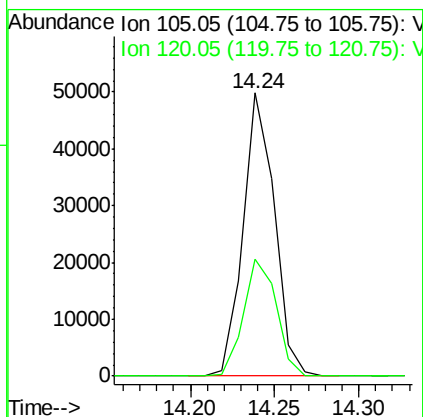
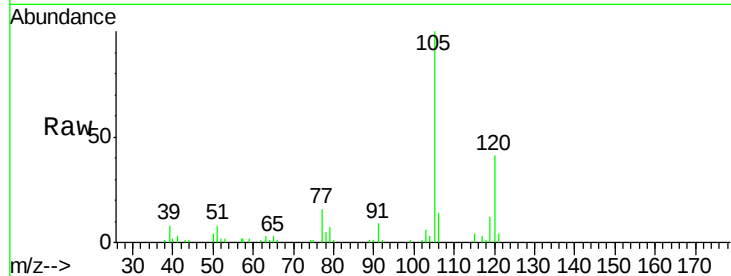




#84
 1,2,4-Trimethylbenzene
 Concen: 7.681 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.00 min
 Lab File: VD061980.D
 Acq: 23 Apr 2019 20:08

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-006-B

Tot Ion:105 Resp: 64184
 Ion Ratio Lower Upper
 105 100
 120 41.4 23.1 69.2



#95
 Naphthalene
 Concen: 8.859 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VD061980.D
 Acq: 23 Apr 2019 20:08

Tgt Ion:128 Resp: 35101
 Ion Ratio Lower Upper
 128 100
 127 13.5 9.8 14.8
 129 10.9 8.8 13.2

