

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW030219\
 Data File : VW008957.D
 Acq On : 02 Mar 2019 08:40
 Operator : SY/VA
 Sample : K1670-04
 Misc : 8.02G/5ML/MSVOA_W/SOIL
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 FK-GF-02-032-B

Quant Time: Mar 03 23:54:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 22 00:38:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	306624	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	479503	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	428818	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	187678	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	173366	60.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.56%	
35) Dibromofluoromethane	7.88	113	150202	52.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.34%	
50) Toluene-d8	10.32	98	572762	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
62) 4-Bromofluorobenzene	12.62	95	193882	44.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.12%	

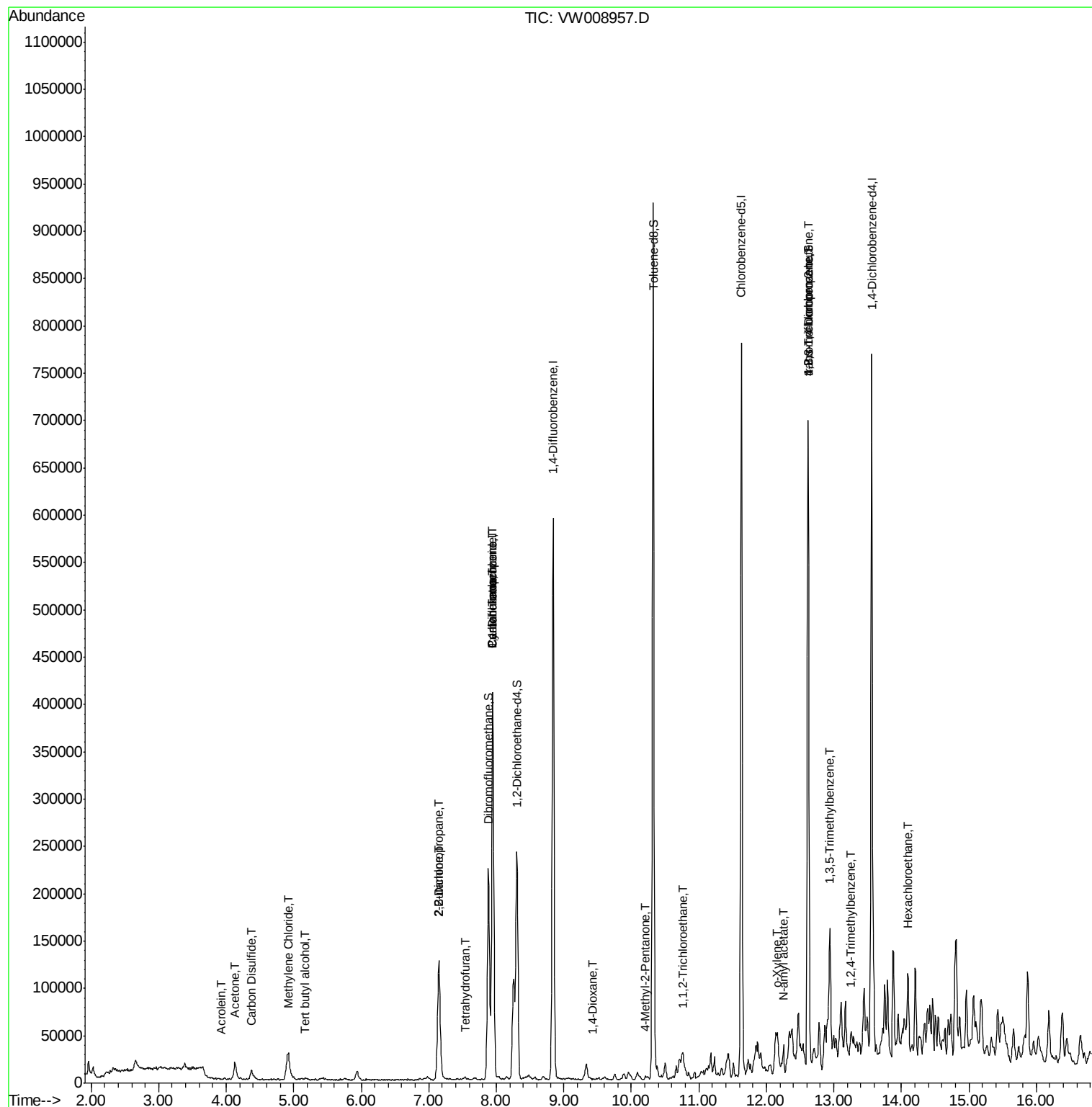
Target Compounds				Qvalue		
11) Tert butyl alcohol	5.18	59	340	1.328	ug/l #	52
13) Acrolein	3.92	56	254	20.646	ug/l	86
16) Acetone	4.13	43	30759	46.143	ug/l	93
17) Carbon Disulfide	4.38	76	18414	2.067	ug/l #	93
20) Methylene Chloride	4.92	84	20854	1.383	ug/l	85
25) 2-Butanone	7.14	43	8315	8.922	ug/l #	82
26) 2,2-Dichloropropane	7.15	77	8482	1.744	ug/l #	54
29) Tetrahydrofuran	7.54	42	2008	3.381	ug/l #	82
31) Cyclohexane	7.95	56	8252	1.522	ug/l #	33
36) 1,1-Dichloropropene	7.94	75	23959	5.133	ug/l #	53
38) Carbon Tetrachloride	7.95	117	30919	6.281	ug/l #	17
49) 1,4-Dioxane	9.43	88	53	1.889	ug/l #	76
51) 4-Methyl-2-Pentanone	10.21	43	2419	1.100	ug/l	98
55) 1,1,2-Trichloroethane	10.76	97	5444	2.292	ug/l #	27
69) o-Xylene	12.17	106	8283	1.370	ug/l	96
74) N-amyl acetate	12.26	43	6699	2.067	ug/l #	65
76) 1,2,3-Trichloropropane	12.61	75	103930	67.072	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	35679	3.191	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.61	75	103930	163.057	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.26	105	14573	1.259	ug/l	96
90) Hexachloroethane	14.10	117	4388	2.103	ug/l #	9

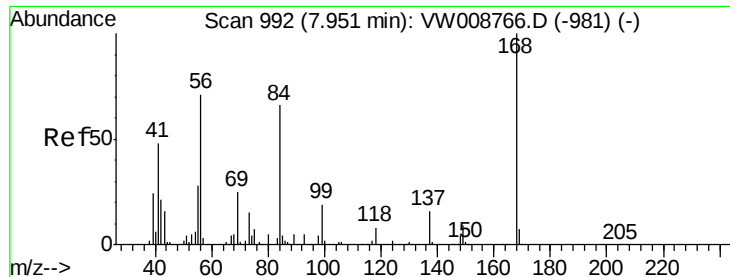
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW008957.D

Acq: 02 Mar 2019 08:40

Instrument :

MSVOA_W

ClientSampleId :

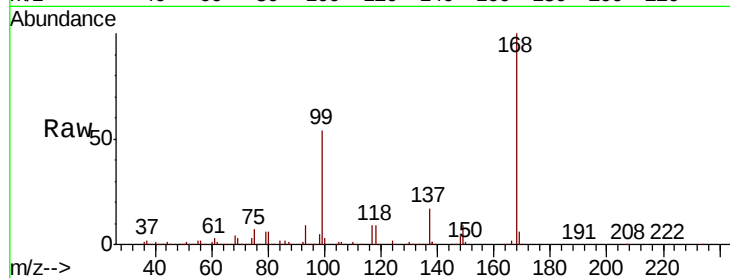
FK-GF-02-032-B

Tgt Ion:168 Resp: 306624

Ion Ratio Lower Upper

168 100

99 54.4 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

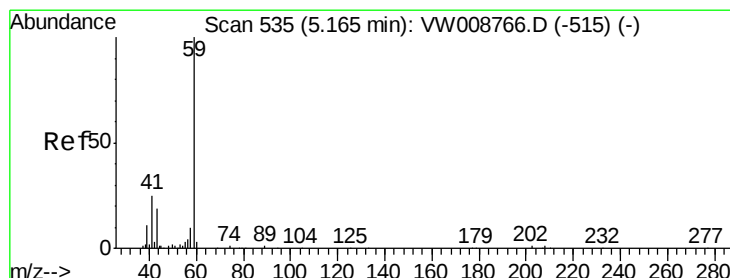
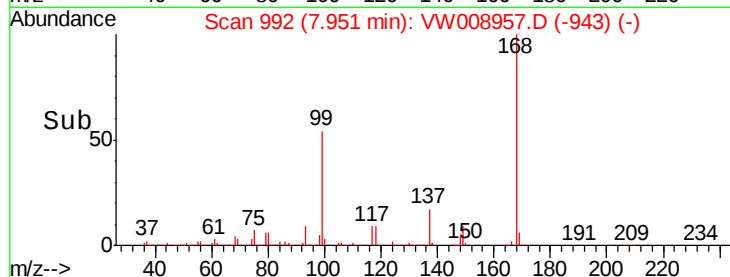
100000

50000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 1.328 ug/l

RT: 5.18 min Scan# 537

Delta R.T. 0.01 min

Lab File: VW008957.D

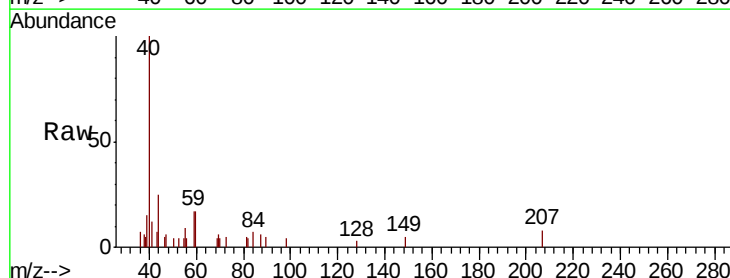
Acq: 02 Mar 2019 08:40

Tgt Ion: 59 Resp: 340

Ion Ratio Lower Upper

59 100

57 30.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

600

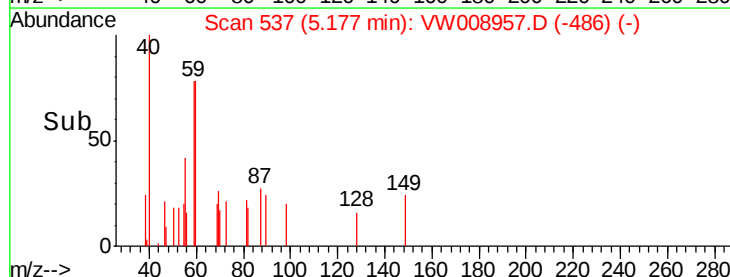
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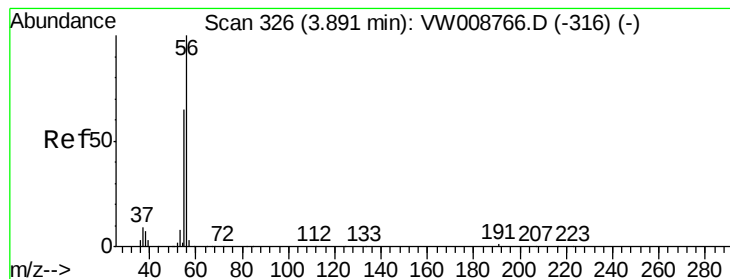
200

0

5.14 5.16 5.18

Time-->





#13

Acrolein

Concen: 20.646 ug/l

RT: 3.92 min Scan# 331

Delta R.T. 0.03 min

Lab File: VW008957.D

Acq: 02 Mar 2019 08:40

Instrument :

MSVOA_W

ClientSampleId :

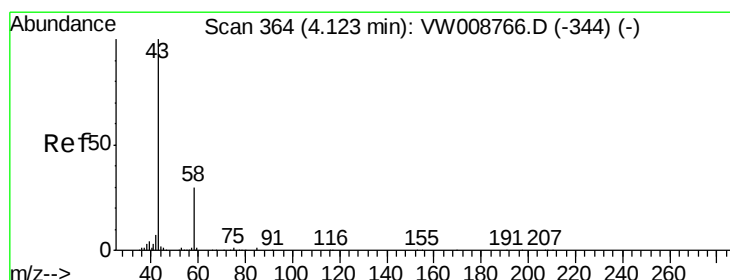
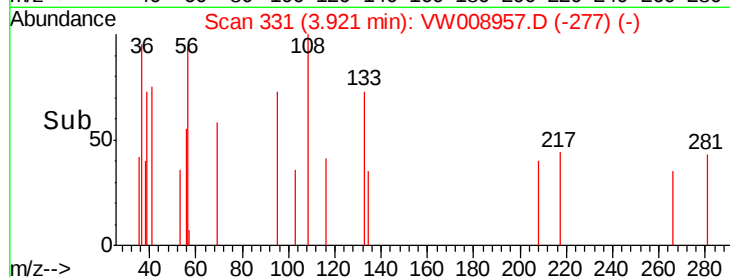
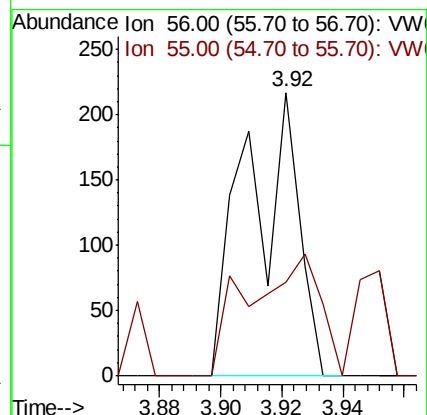
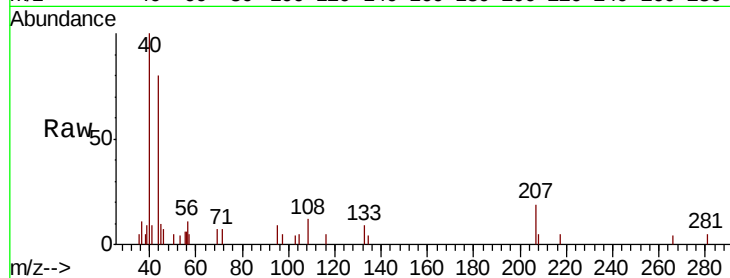
FK-GF-02-032-B

Tgt Ion: 56 Resp: 254

Ion Ratio Lower Upper

56 100

55 59.4 56.9 85.3



#16

Acetone

Concen: 46.143 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008957.D

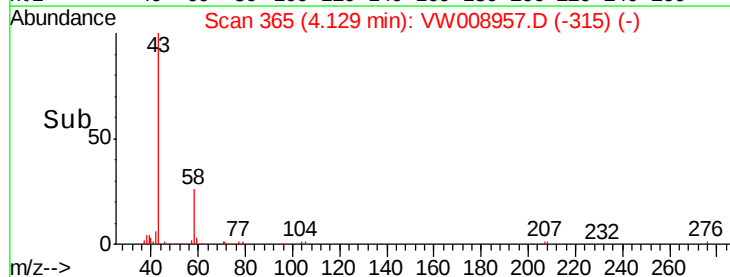
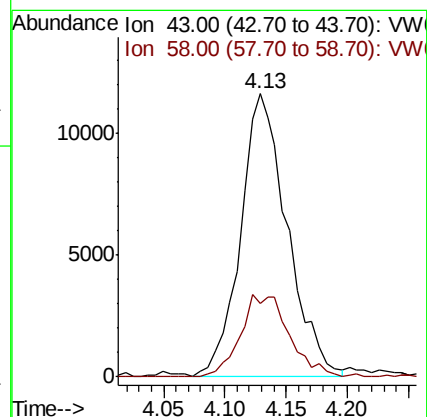
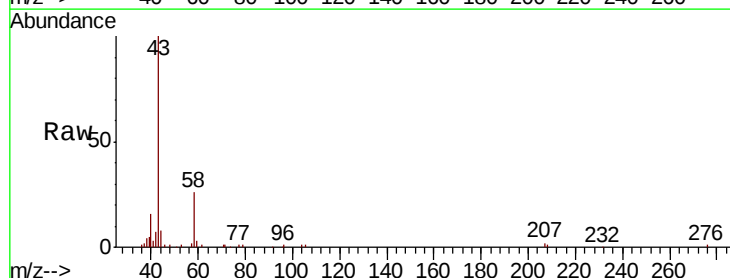
Acq: 02 Mar 2019 08:40

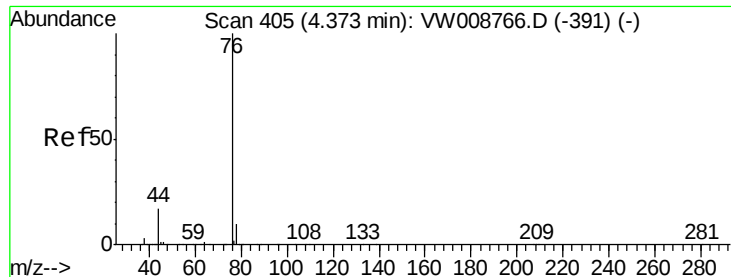
Tgt Ion: 43 Resp: 30759

Ion Ratio Lower Upper

43 100

58 26.0 23.8 35.6

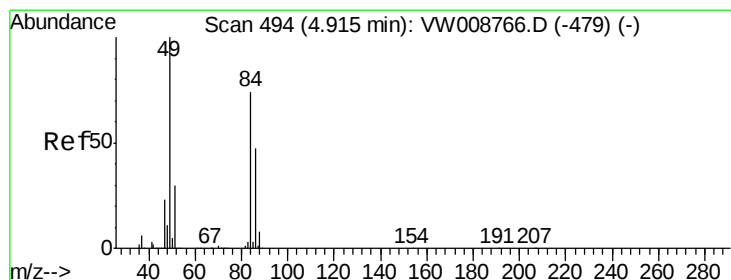
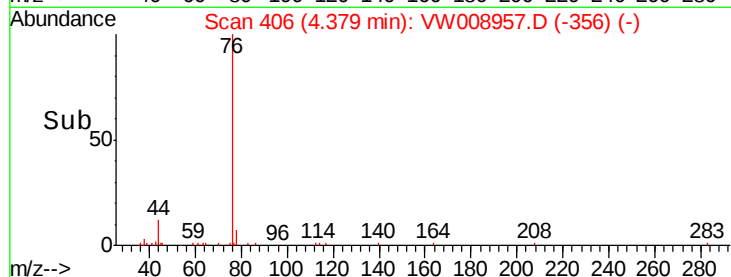
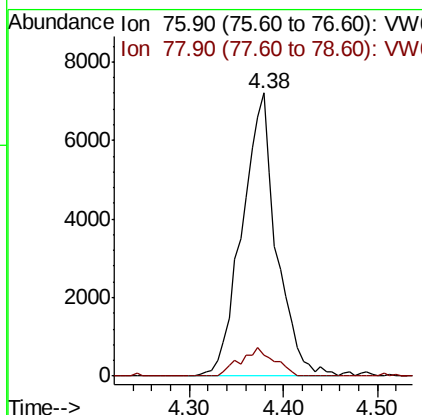
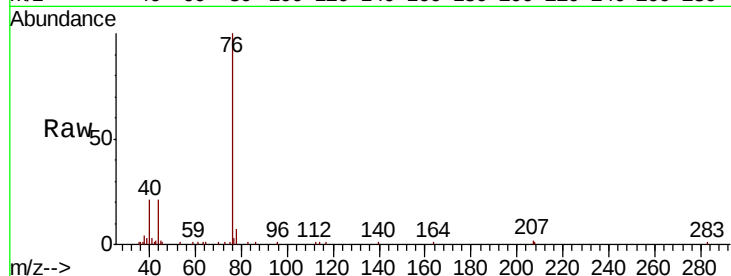




#17
Carbon Disulfide
Concen: 2.067 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.01 min
Lab File: VW008957.D
Acq: 02 Mar 2019 08:40

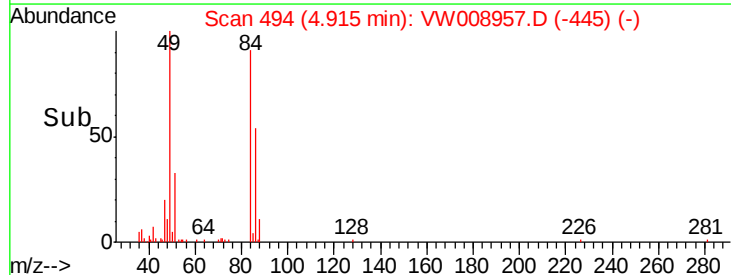
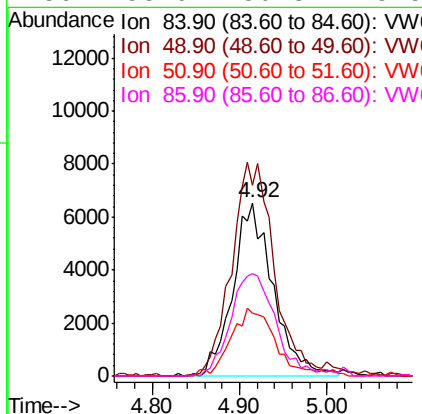
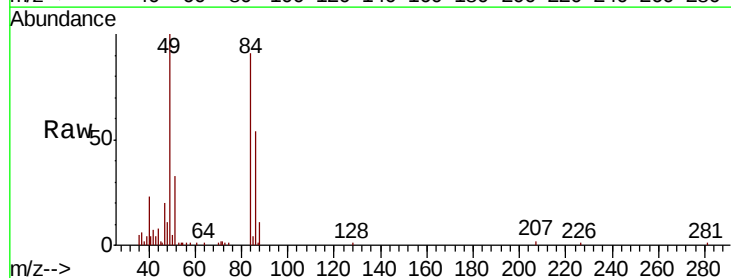
Instrument :
MSVOA_W
ClientSampleId :
FK-GF-02-032-B

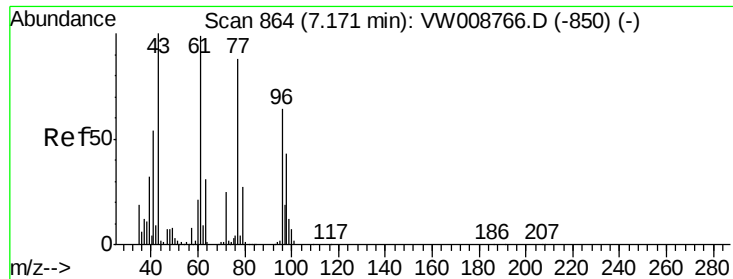
Tgt Ion: 76 Resp: 18414
Ion Ratio Lower Upper
76 100
78 7.2 7.8 11.8#



#20
Methylene Chloride
Concen: 1.383 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW008957.D
Acq: 02 Mar 2019 08:40

Tgt Ion: 84 Resp: 20854
Ion Ratio Lower Upper
84 100
49 109.3 108.2 162.2
51 35.9 32.7 49.1
86 58.9 50.3 75.5





#25

2-Butanone

Concen: 8.922 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW008957.D

Acq: 02 Mar 2019 08:40

Instrument :

MSVOA_W

ClientSampleId :

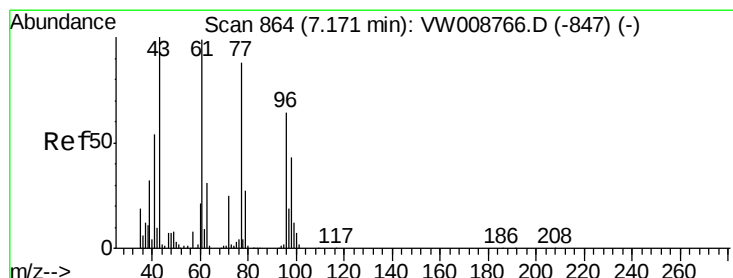
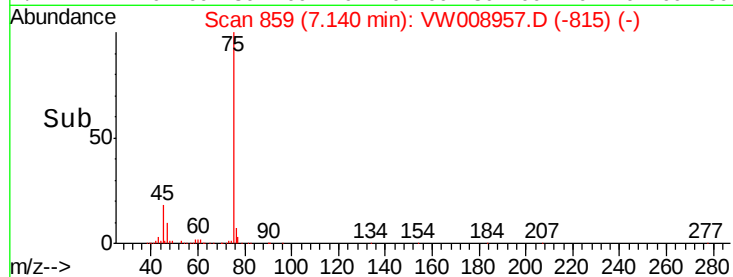
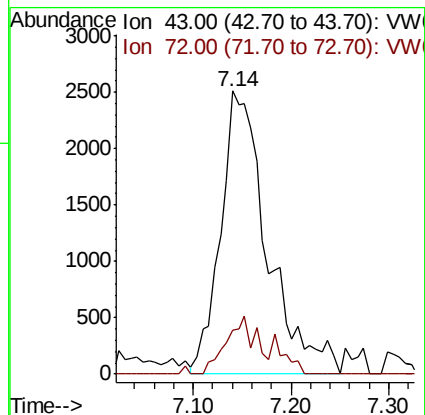
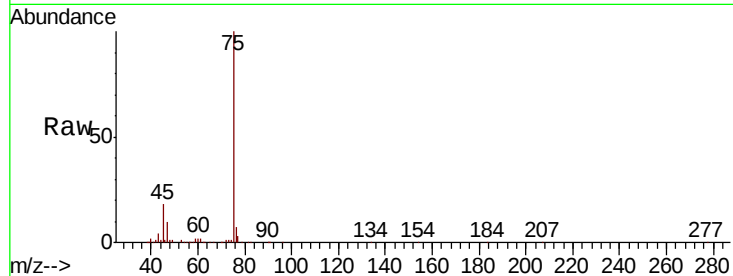
FK-GF-02-032-B

Tgt Ion: 43 Resp: 8315

Ion Ratio Lower Upper

43 100

72 15.6 19.7 29.5#



#26

2,2-Dichloropropane

Concen: 1.744 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008957.D

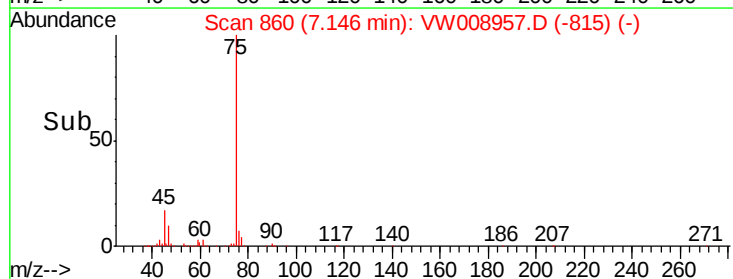
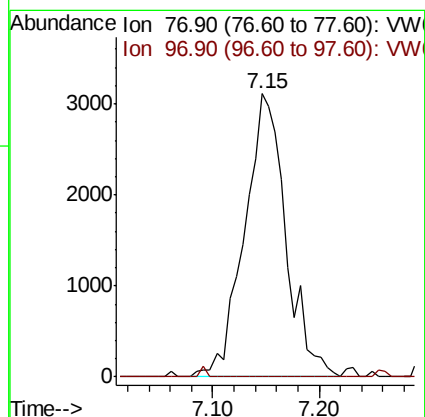
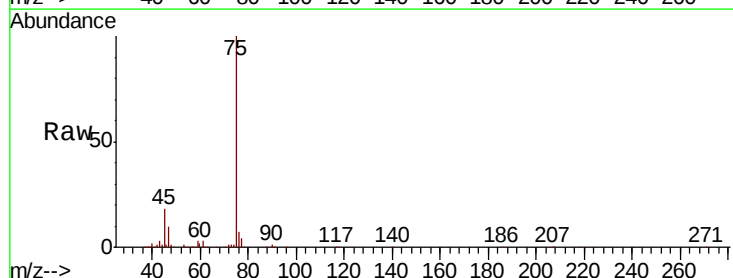
Acq: 02 Mar 2019 08:40

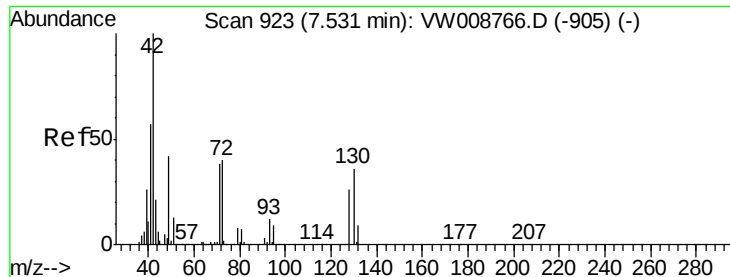
Tgt Ion: 77 Resp: 8482

Ion Ratio Lower Upper

77 100

97 0.0 11.0 33.0#

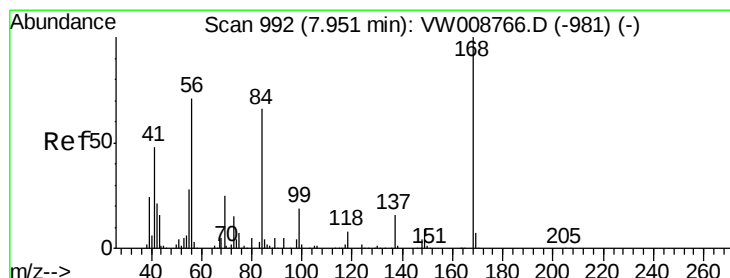
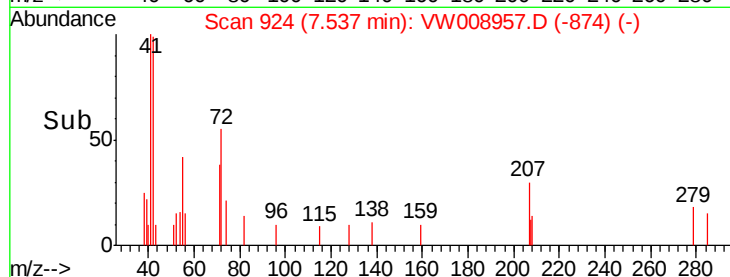
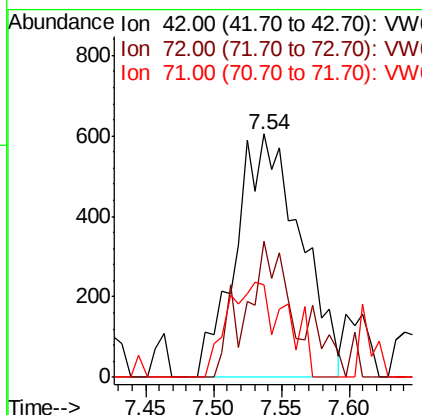
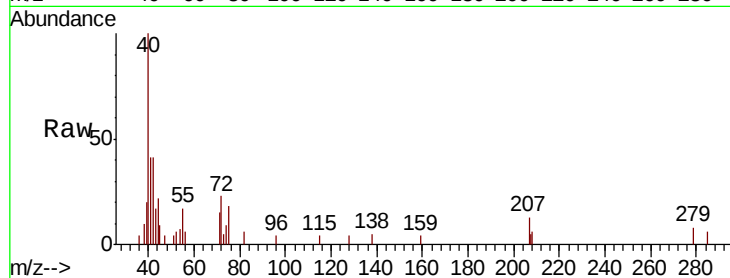




#29
Tetrahydrofuran
Concen: 3.381 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW008957.D
Acq: 02 Mar 2019 08:40

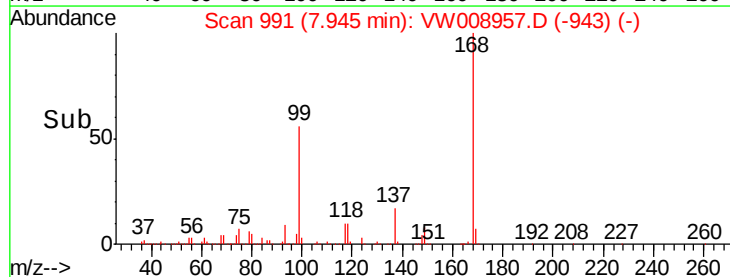
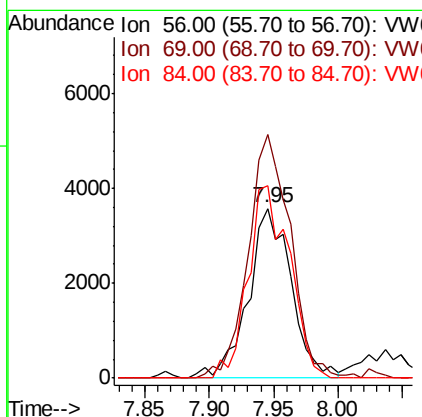
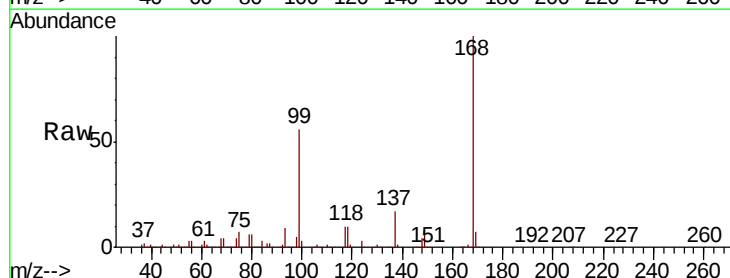
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MSVOA_W
ClientSampleId :
FK-GF-02-032-B

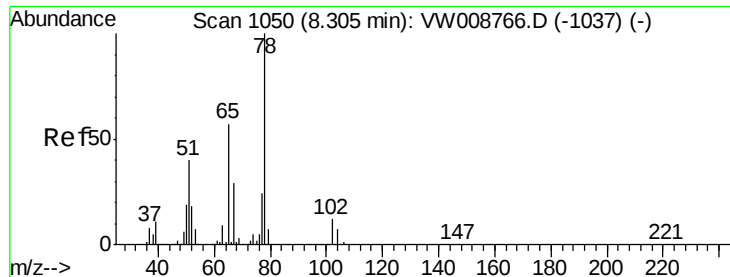
Tgt Ion: 42 Resp: 2008
Ion Ratio Lower Upper
42 100
72 22.3 32.7 49.1#
71 35.5 31.3 46.9



#31
Cyclohexane
Concen: 1.522 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008957.D
Acq: 02 Mar 2019 08:40

Tgt Ion: 56 Resp: 8252
Ion Ratio Lower Upper
56 100
69 143.6 28.2 42.4#
84 113.6 74.1 111.1#

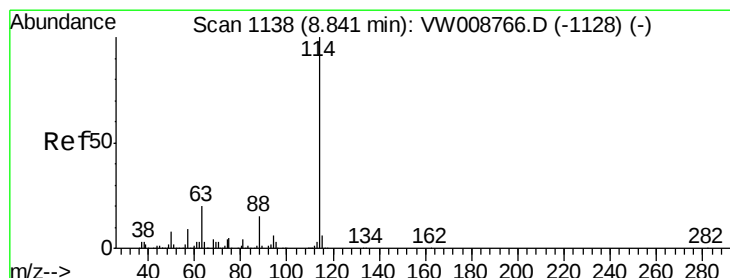
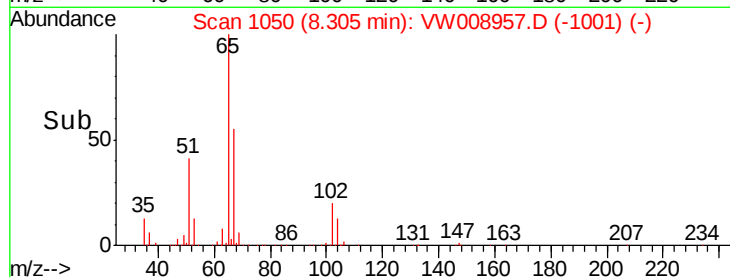
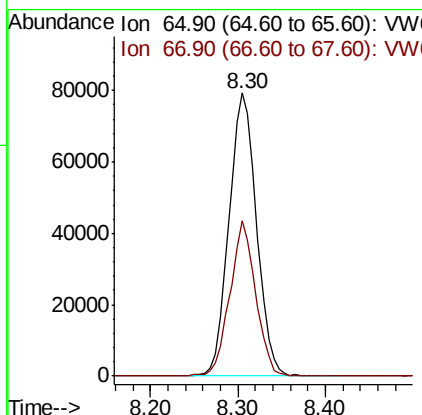
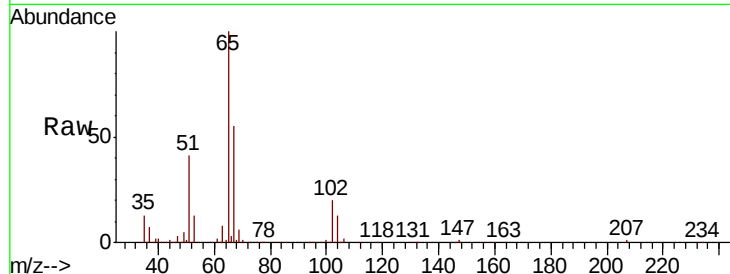




#33
 1,2-Dichloroethane-d4
 Concen: 60.283 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW008957.D
 Acq: 02 Mar 2019 08:40

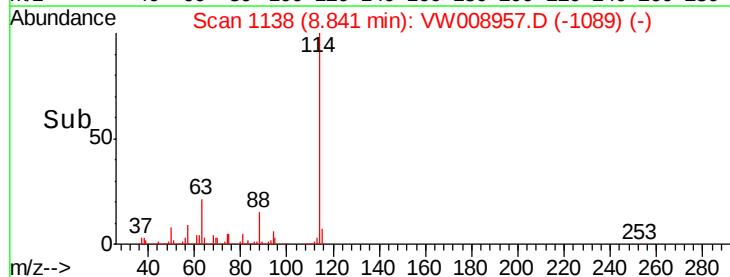
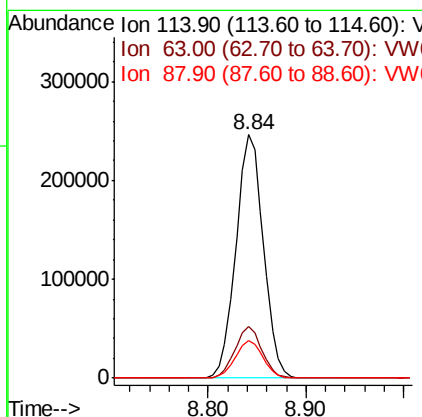
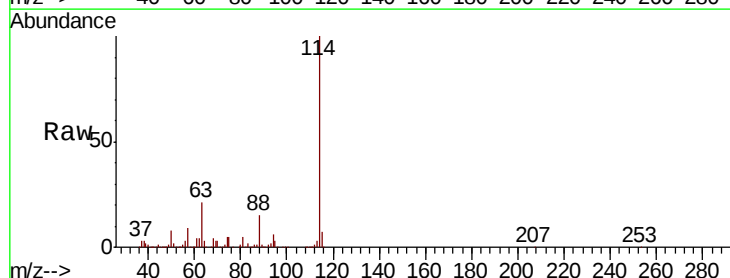
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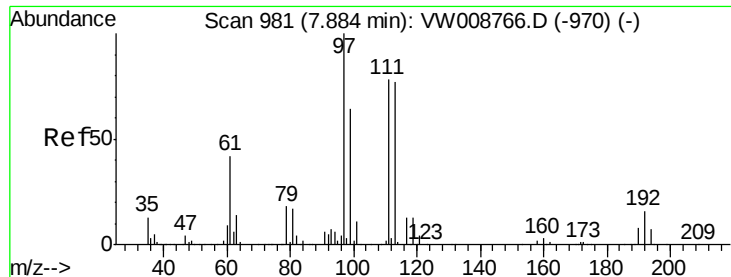
Tgt Ion: 65 Resp: 173366
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW008957.D
 Acq: 02 Mar 2019 08:40

Tgt Ion: 114 Resp: 479503
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 40.8
 88 15.4 0.0 30.4

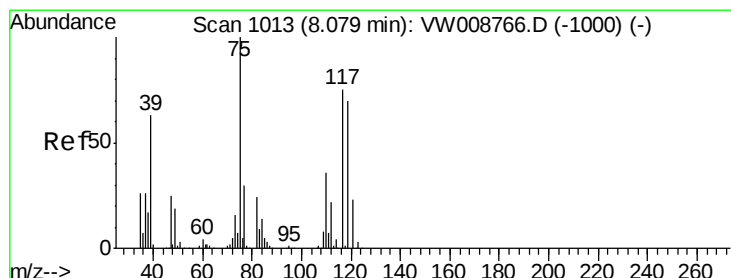
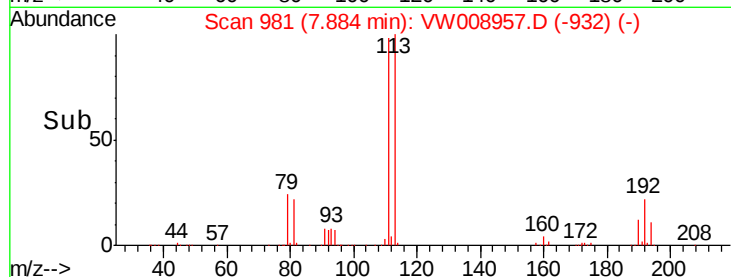
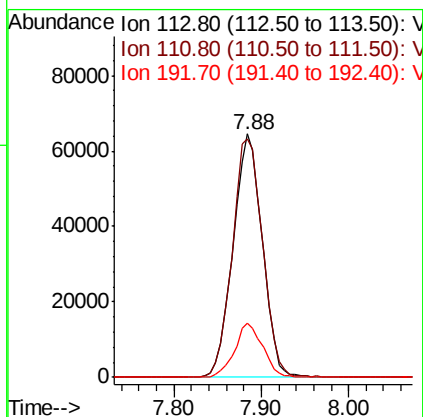
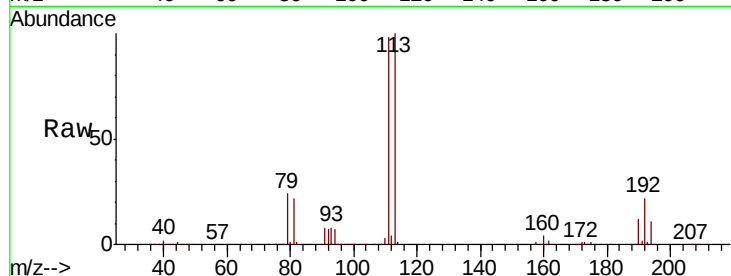




#35
 Dibromofluoromethane
 Concen: 52.172 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW008957.D
 Acq: 02 Mar 2019 08:40

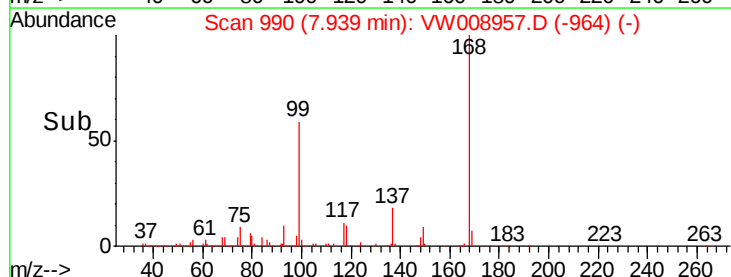
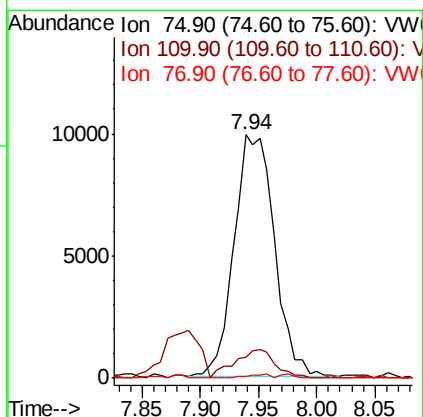
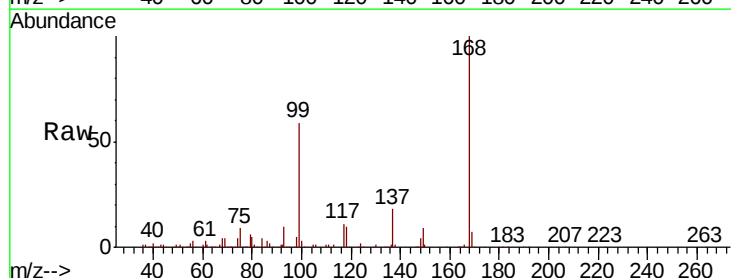
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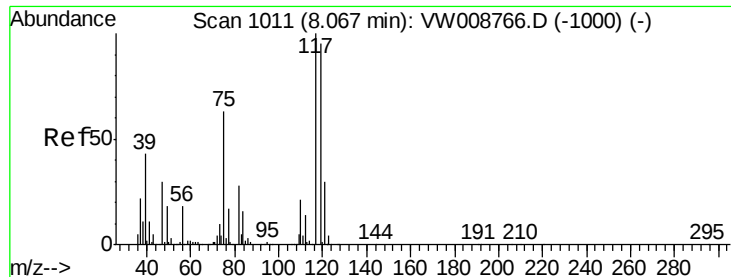
Tgt Ion:113 Resp: 150202
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.9 122.9
 192 21.4 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 5.133 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW008957.D
 Acq: 02 Mar 2019 08:40

Tgt Ion: 75 Resp: 23959
 Ion Ratio Lower Upper
 75 100
 110 11.4 17.5 52.6#
 77 0.9 24.5 36.7#

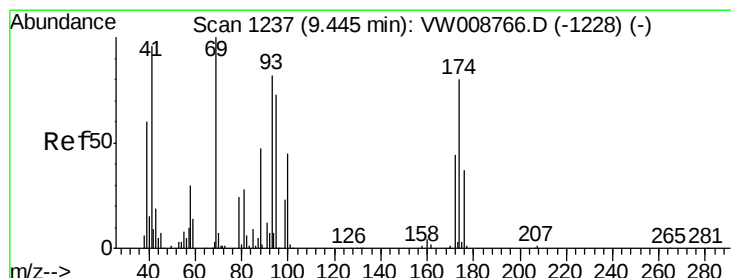
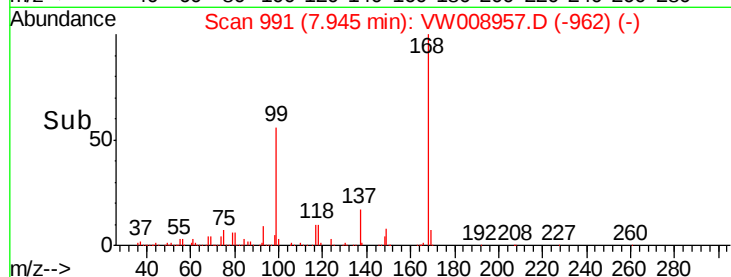
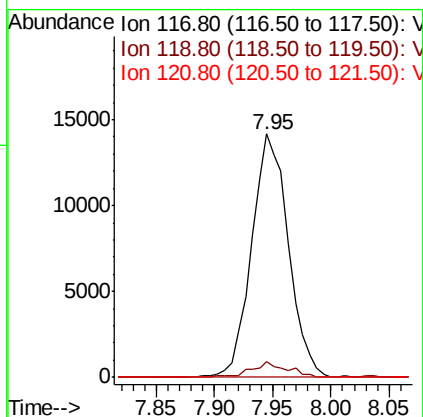
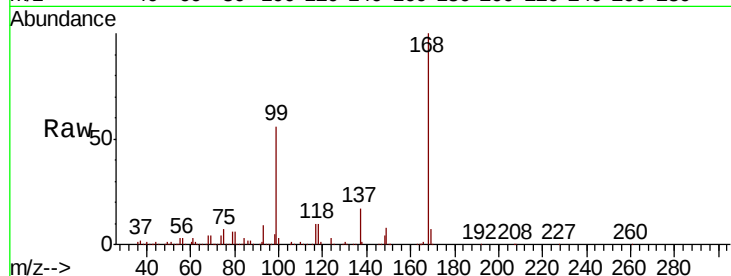




#38
Carbon Tetrachloride
Concen: 6.281 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW008957.D
Acq: 02 Mar 2019 08:40

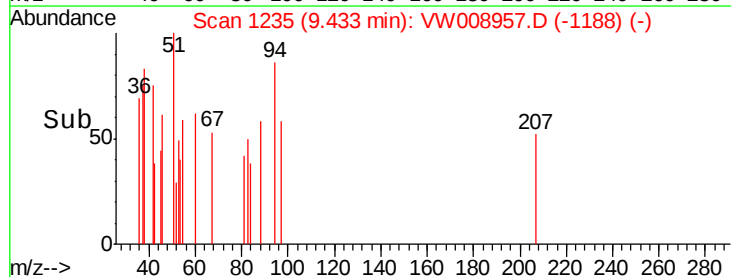
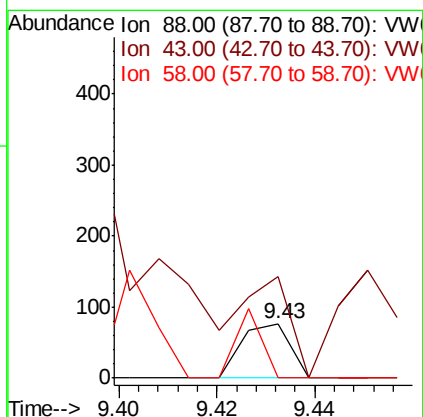
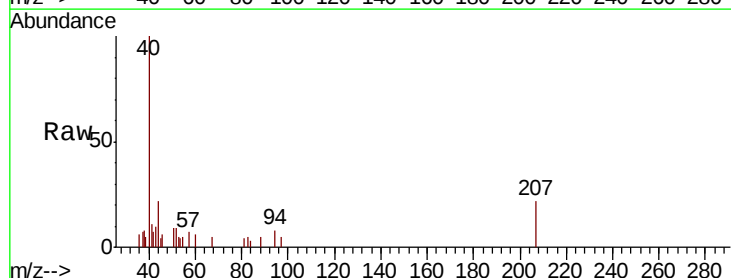
Instrument :
MSVOA_W
ClientSampleId :
FK-GF-02-032-B

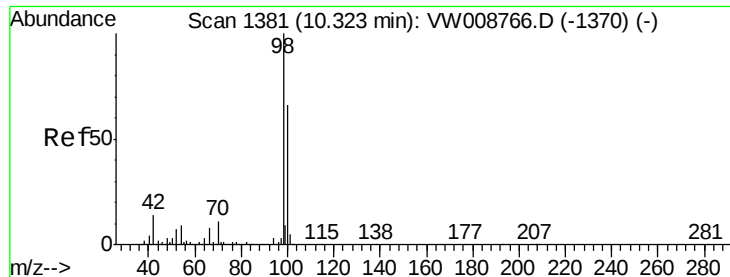
Tgt Ion: 117 Resp: 30919
Ion Ratio Lower Upper
117 100
119 6.4 76.1 114.1#
121 0.0 24.0 36.0#



#49
1,4-Dioxane
Concen: 1.889 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. -0.01 min
Lab File: VW008957.D
Acq: 02 Mar 2019 08:40

Tgt Ion: 88 Resp: 53
Ion Ratio Lower Upper
88 100
43 0.0 29.0 43.4#
58 67.9 52.0 78.0





#50

Toluene-d8

Concen: 51.536 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008957.D

Acq: 02 Mar 2019 08:40

Instrument :

MSVOA_W

ClientSampleId :

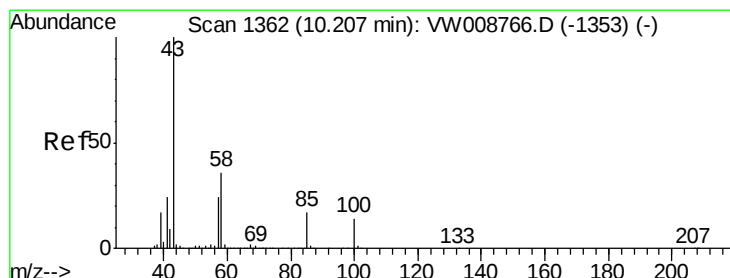
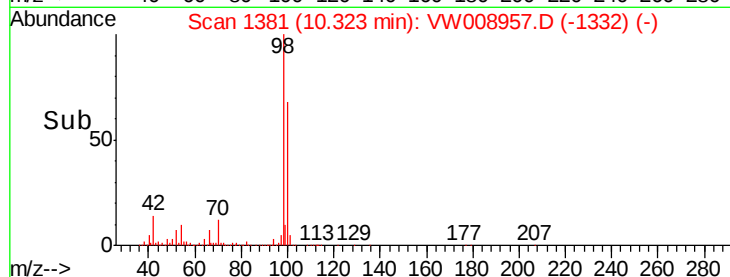
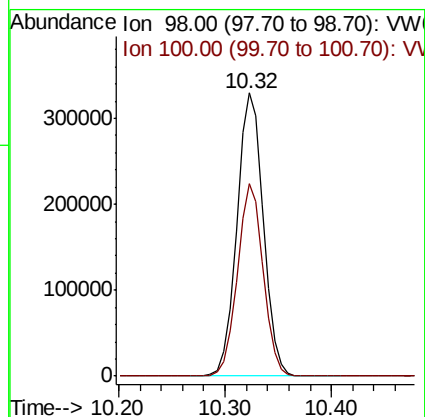
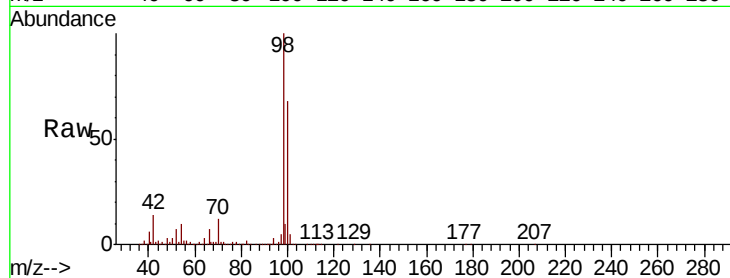
FK-GF-02-032-B

Tgt Ion: 98 Resp: 572762

Ion Ratio Lower Upper

98 100

100 66.3 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 1.100 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW008957.D

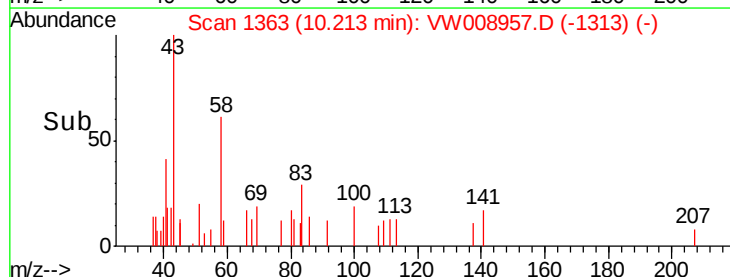
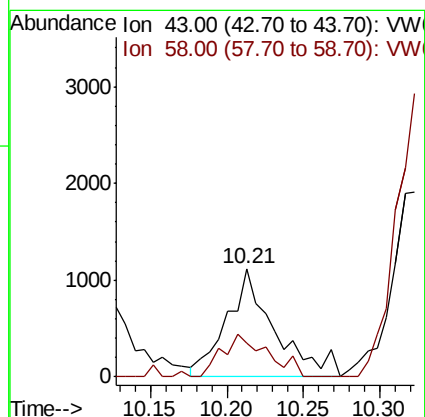
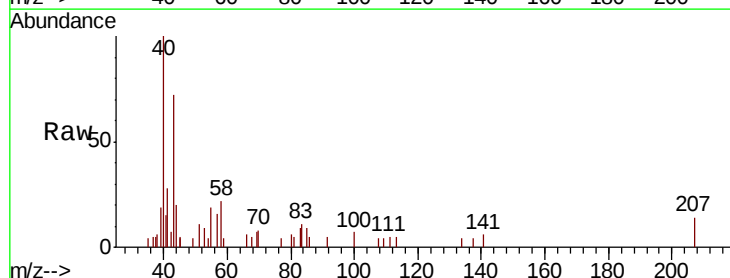
Acq: 02 Mar 2019 08:40

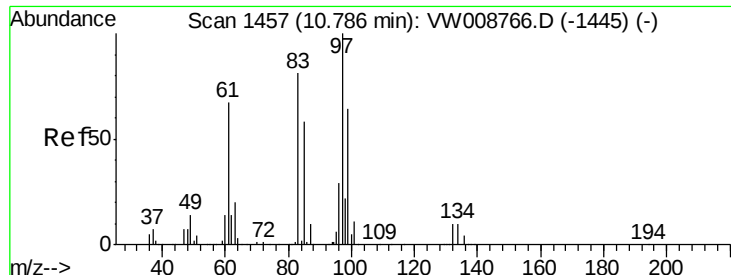
Tgt Ion: 43 Resp: 2419

Ion Ratio Lower Upper

43 100

58 37.7 29.1 43.7





#55

1,1,2-Trichloroethane

Concen: 2.292 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW008957.D

Acq: 02 Mar 2019 08:40

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-032-B

Tgt Ion: 97 Resp: 5444

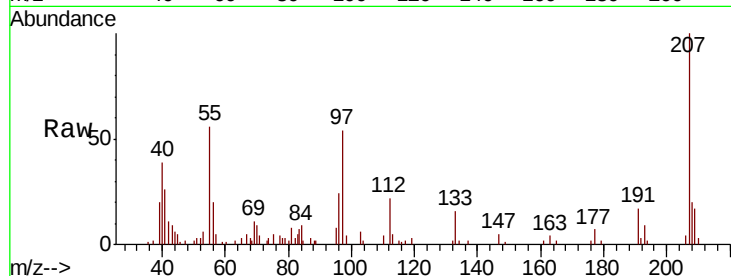
Ion Ratio Lower Upper

97 100

83 21.9 65.0 97.6#

85 4.3 46.0 69.0#

99 0.0 51.1 76.7#

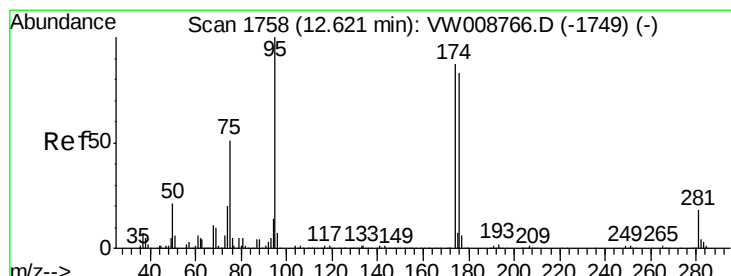
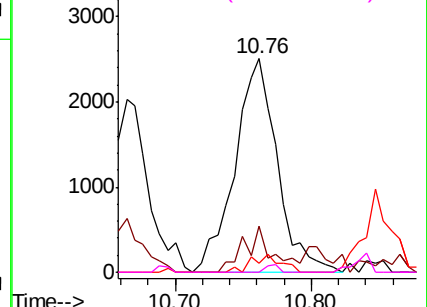
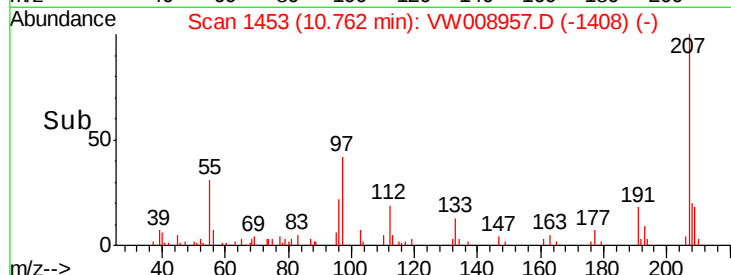


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#62

4-Bromofluorobenzene

Concen: 44.555 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008957.D

Acq: 02 Mar 2019 08:40

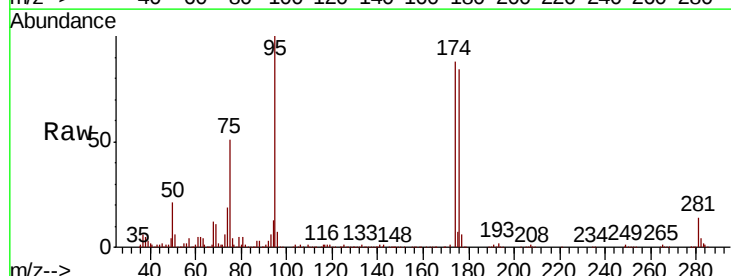
Tgt Ion: 95 Resp: 193882

Ion Ratio Lower Upper

95 100

174 86.7 0.0 169.2

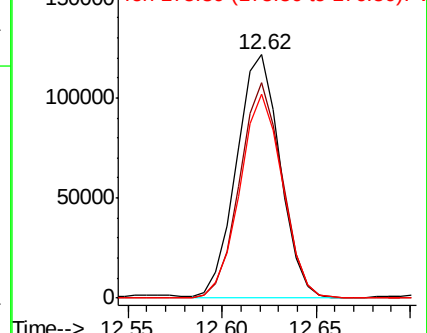
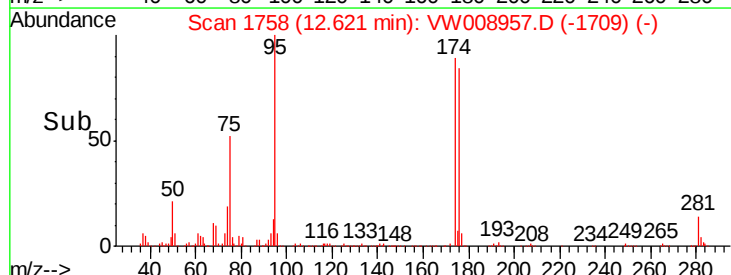
176 82.8 0.0 163.6

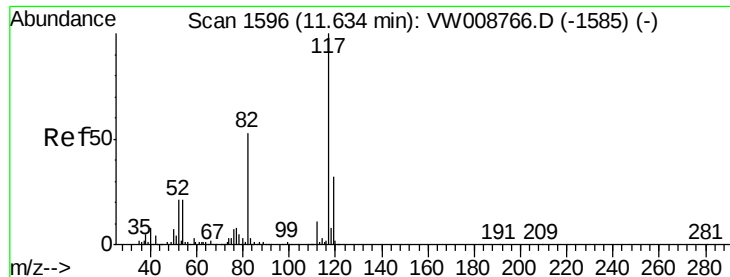


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

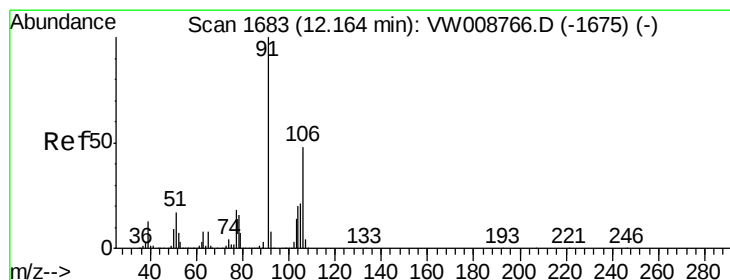
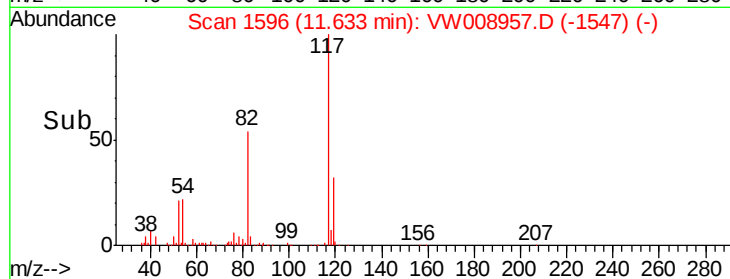
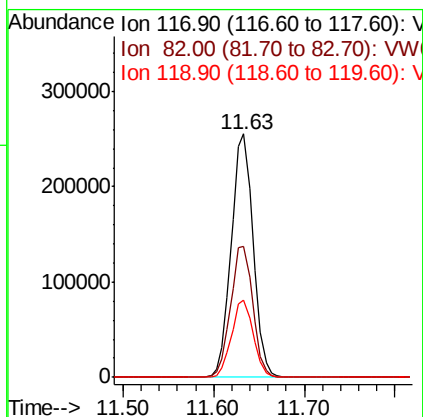
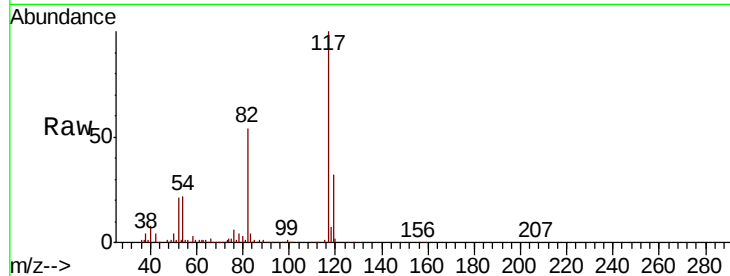




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW008957.D
Acq: 02 Mar 2019 08:40

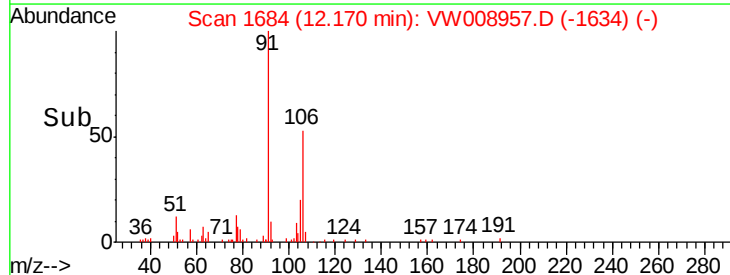
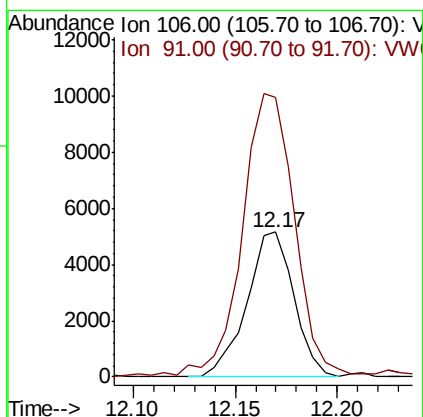
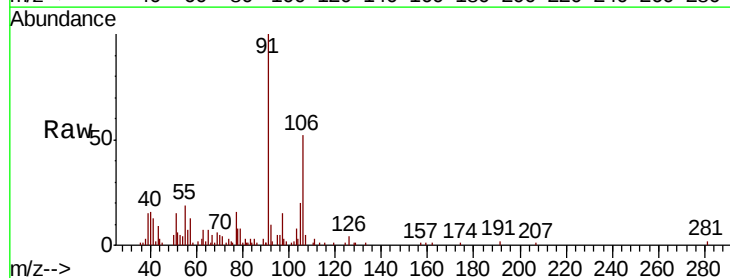
Instrument :
MSVOA_W
ClientSampleId :
FK-GF-02-032-B

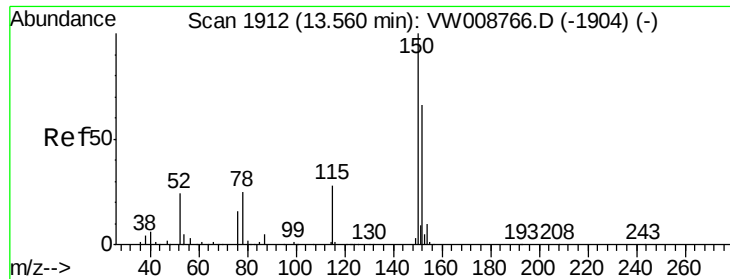
Tgt Ion:117 Resp: 428818
Ion Ratio Lower Upper
117 100
82 53.7 42.2 63.4
119 31.6 25.9 38.9



#69
o-Xylene
Concen: 1.370 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VW008957.D
Acq: 02 Mar 2019 08:40

Tgt Ion:106 Resp: 8283
Ion Ratio Lower Upper
106 100
91 218.2 106.2 318.6

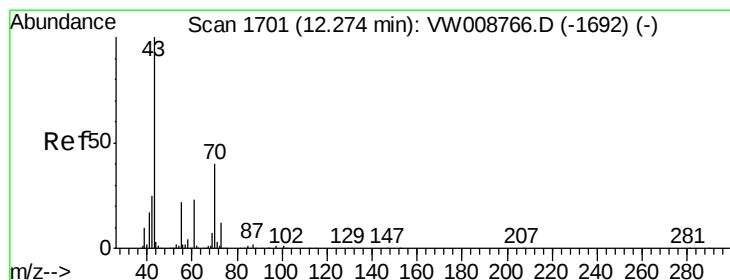
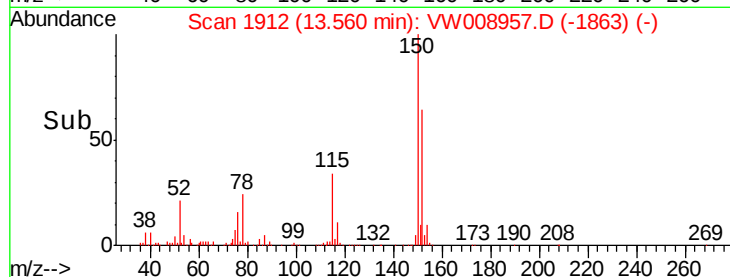
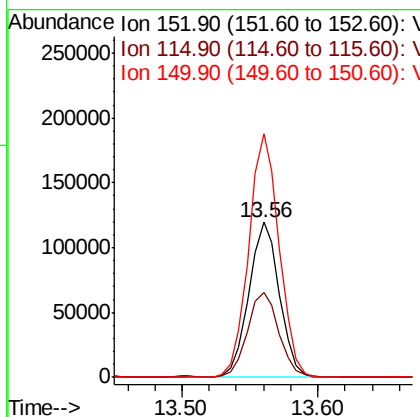
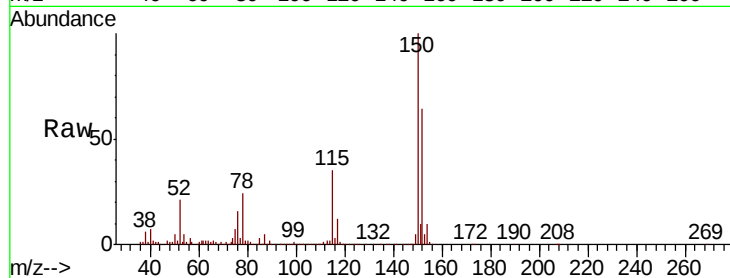




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. -0.00 min
 Lab File: VW008957.D
 Acq: 02 Mar 2019 08:40

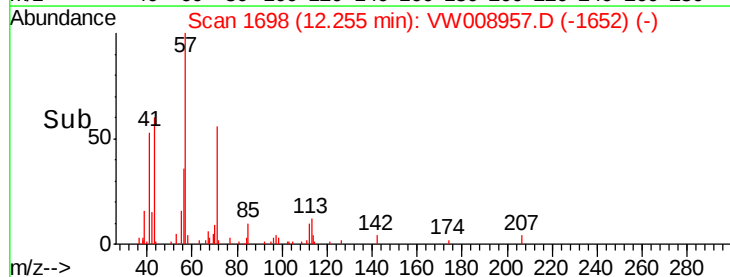
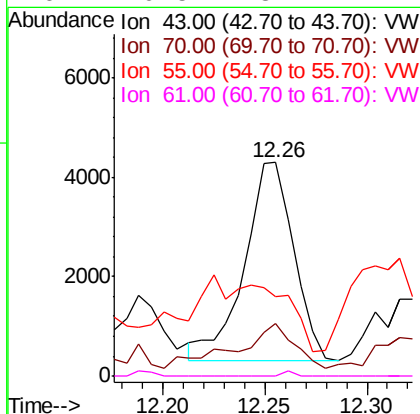
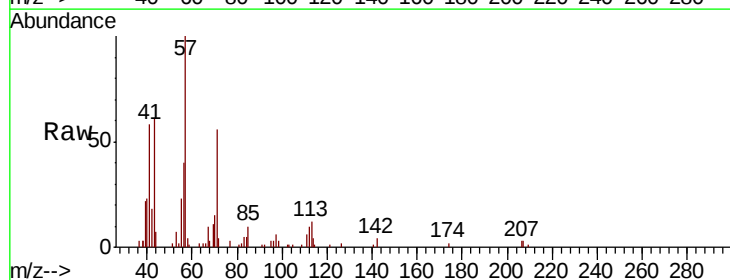
Instrument :
 MSVOA_W
 ClientSampleId :
 FK-GF-02-032-B

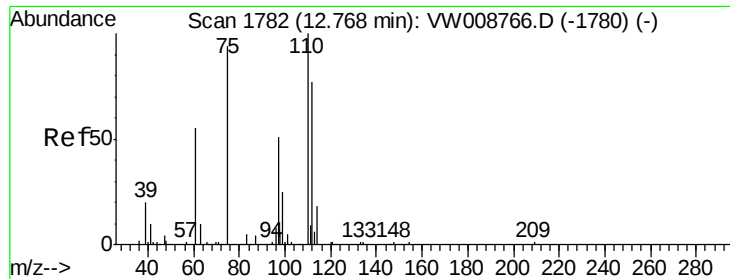
Tgt Ion:152 Resp: 187678
 Ion Ratio Lower Upper
 152 100
 115 56.8 28.6 85.8
 150 156.0 0.0 348.0



#74
 N-ethyl acetate
 Concen: 2.067 ug/l
 RT: 12.26 min Scan# 1698
 Delta R.T. -0.02 min
 Lab File: VW008957.D
 Acq: 02 Mar 2019 08:40

Tgt Ion: 43 Resp: 6699
 Ion Ratio Lower Upper
 43 100
 70 26.5 31.0 46.6#
 55 0.0 18.7 28.1#
 61 0.5 18.1 27.1#

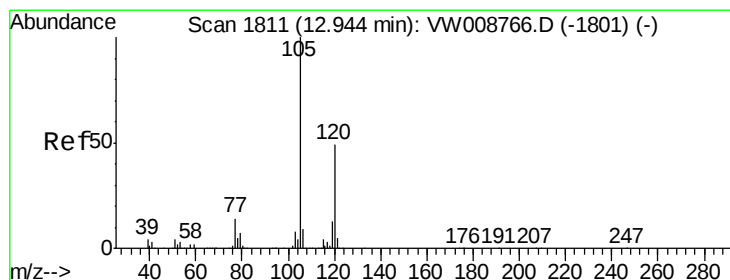
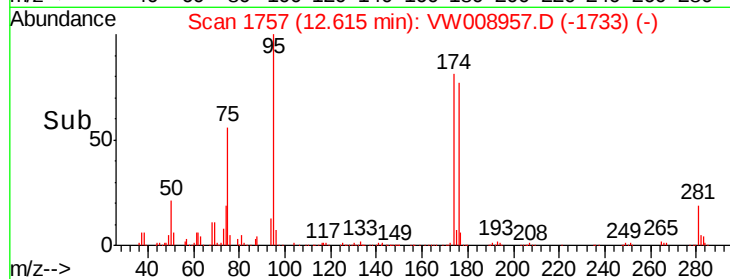
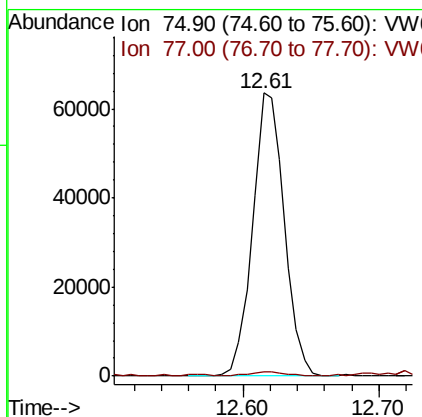
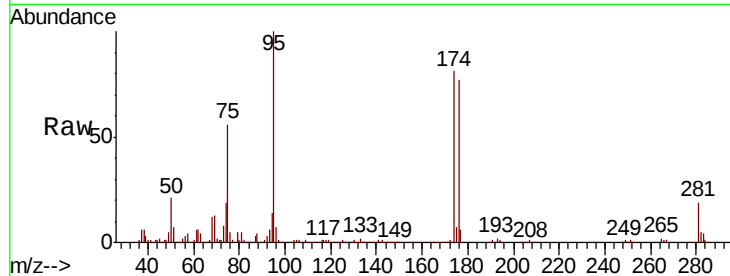




#76
 1,2,3-Trichloropropane
 Concen: 67.072 ug/l
 RT: 12.61 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW008957.D
 Acq: 02 Mar 2019 08:40

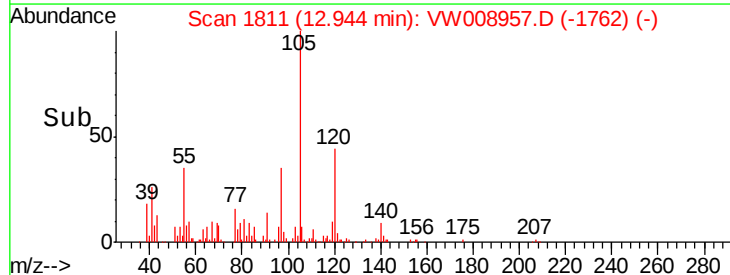
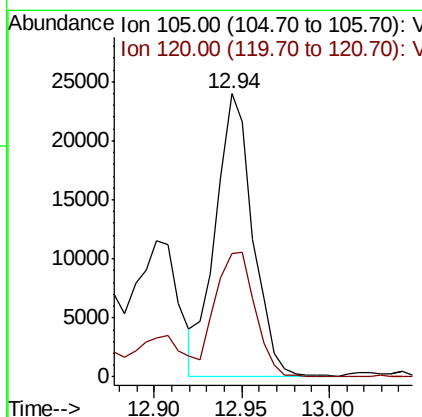
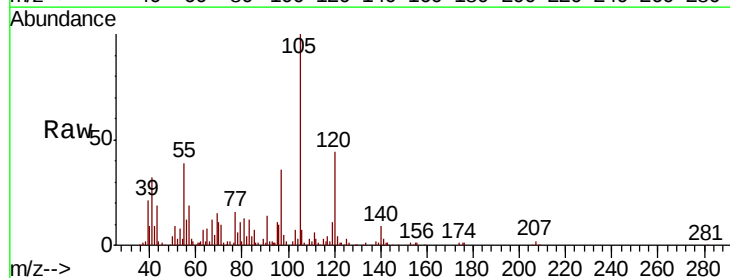
Instrument :
 MSVOA_W
 ClientSampleId :
 FK-GF-02-032-B

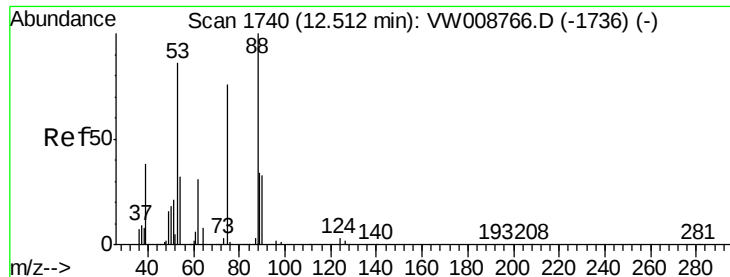
Tgt Ion: 75 Resp: 103930
 Ion Ratio Lower Upper
 75 100
 77 1.6 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 3.191 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW008957.D
 Acq: 02 Mar 2019 08:40

Tgt Ion: 105 Resp: 35679
 Ion Ratio Lower Upper
 105 100
 120 46.7 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 163.057 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008957.D

Acq: 02 Mar 2019 08:40

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-032-B

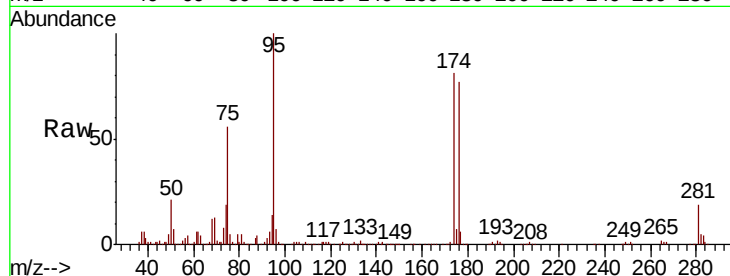
Tgt Ion: 75 Resp: 103930

Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

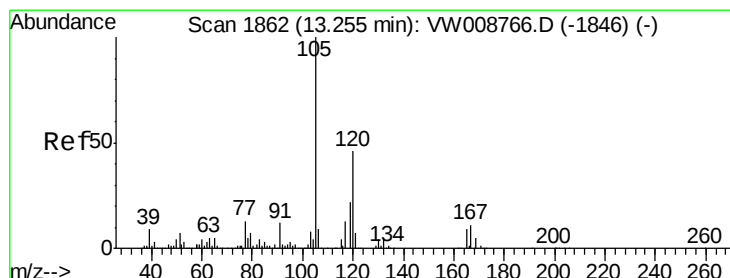
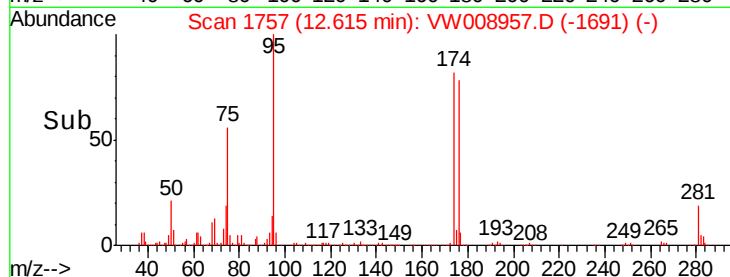
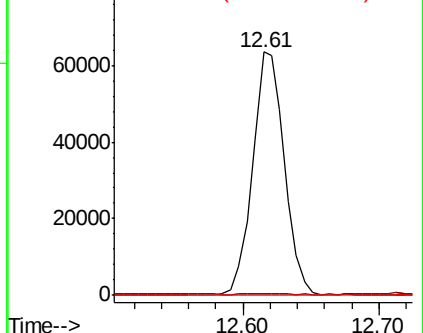
89 0.2 39.5 59.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#84

1,2,4-Trimethylbenzene

Concen: 1.259 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW008957.D

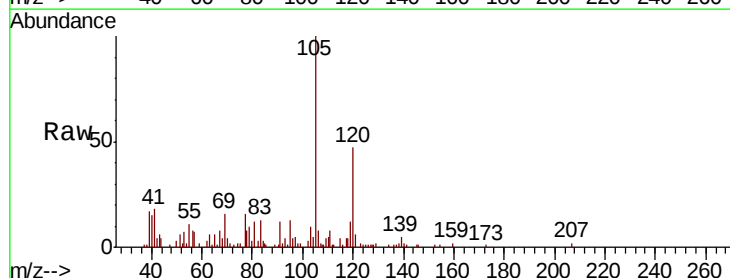
Acq: 02 Mar 2019 08:40

Tgt Ion: 105 Resp: 14573

Ion Ratio Lower Upper

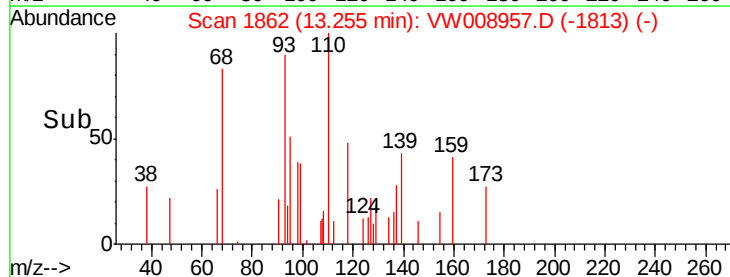
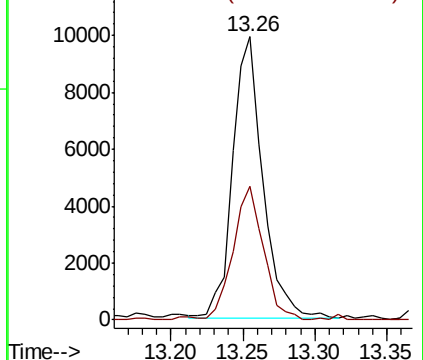
105 100

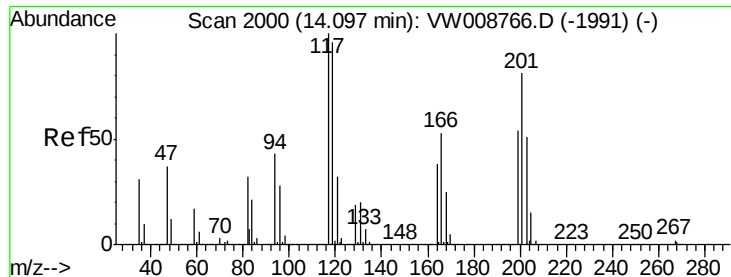
120 48.0 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 2.103 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008957.D

Acq: 02 Mar 2019 08:40

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-032-B

Tgt Ion:117 Resp: 4388

Ion Ratio Lower Upper

117 100

201 0.0 40.3 120.8#

