

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059435.D
 Acq On : 5 Jul 2018 15:44
 Operator : VA/AP
 Sample : J3858-02RE
 Misc : 11.40g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-GF-03-005-ARE

Quant Time: Jul 06 02:05:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.03
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.76
63) Chlorobenzene-d5	9.90	117	88	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	111	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	4.17	113	62	0.00	ug/l	-0.10
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	7.74	98	59	0.00	ug/l	0.04
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.56	95	78	0.00	ug/l	0.05
Spiked Amount	50.000		Recovery	=	0.00%	

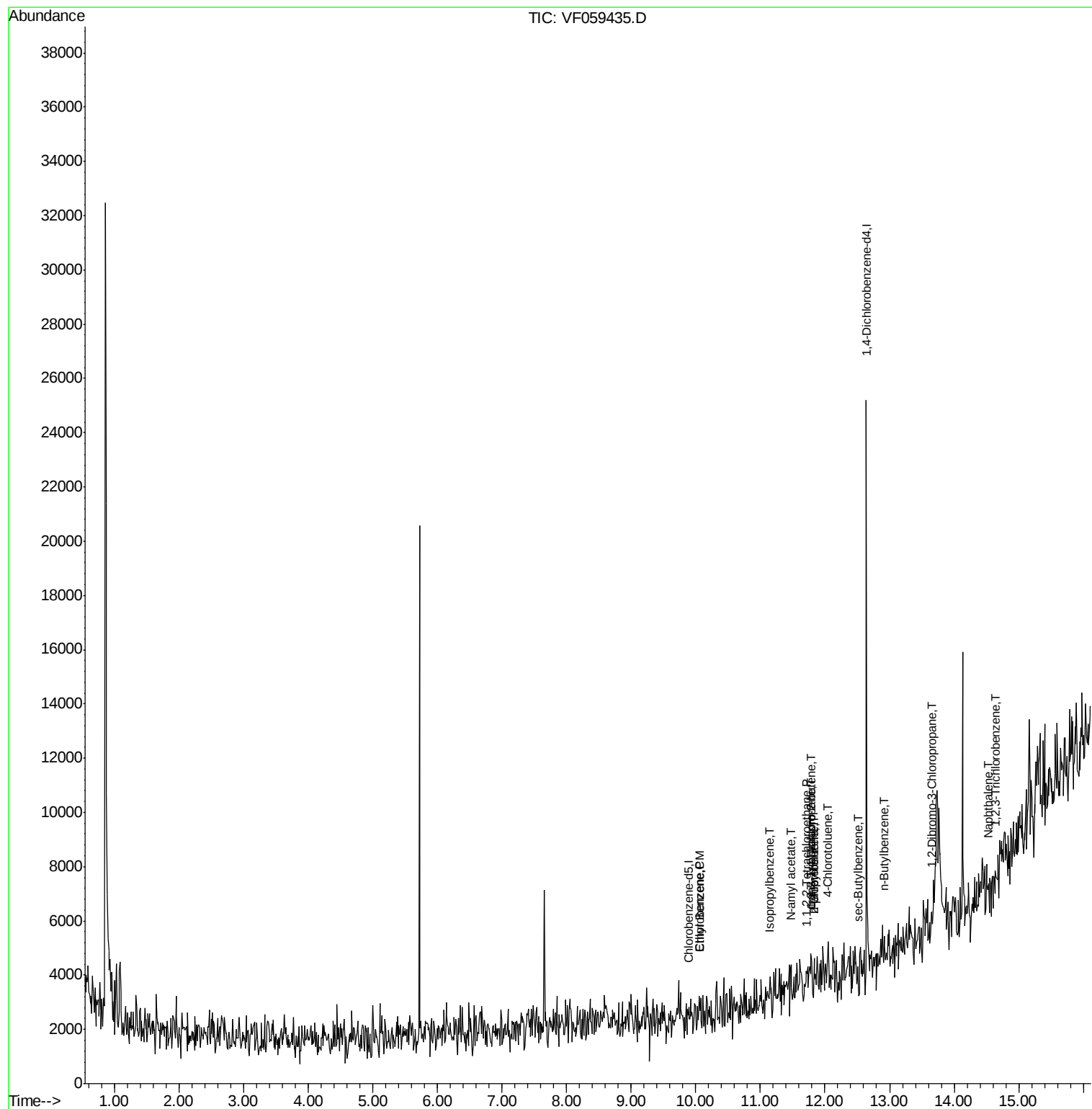
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
65) Chlorobenzene	10.05	112	75	45.994	ug/l #	42
67) Ethyl Benzene	10.05	91	91	32.896	ug/l #	44
73) Isopropylbenzene	11.15	105	61	9.433	ug/l #	51
74) N-amyl acetate	11.48	43	117	49.858	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.70	83	150	91.847	ug/l #	24
76) 1,2,3-Trichloropropane	11.77	75	105	85.231	ug/l #	39
78) n-propylbenzene	11.82	91	81	10.430	ug/l #	52
79) 2-Chlorotoluene	11.82	91	81	17.072	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.77	75	105	143.202	ug/l #	14
82) 4-Chlorotoluene	12.04	91	69	13.577	ug/l #	38
85) sec-Butylbenzene	12.51	105	61	8.123	ug/l #	58
89) n-Butylbenzene	12.92	91	71	11.098	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.65	75	116	320.412	ug/l #	1
95) Naphthalene	14.52	128	71	14.091	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.63	180	61	26.737	ug/l #	12

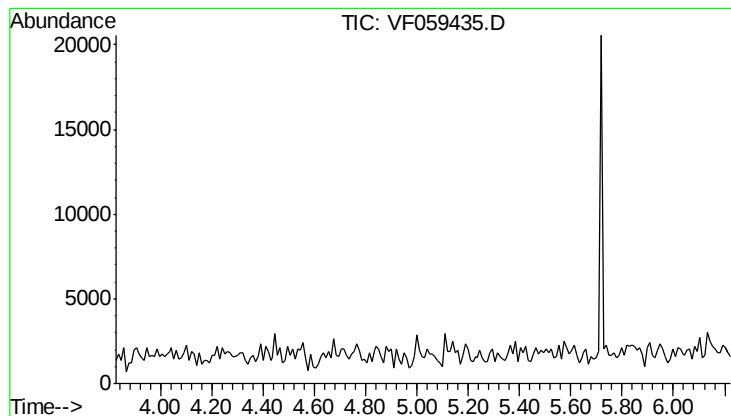
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.03 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

Tot Ion: 168

Sig Exp Ratio

168 100

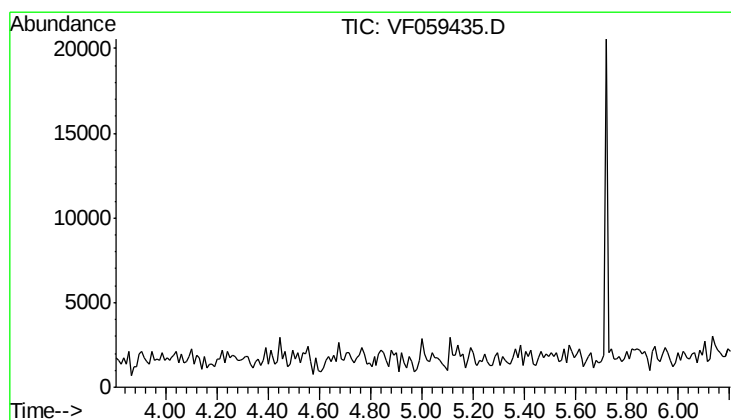
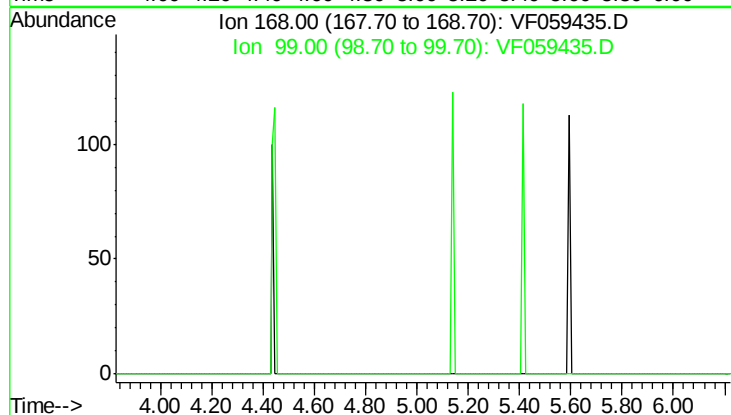
99 68.6

Instrument :

MSVOA_F

ClientSampleId :

FK-GF-03-005-ARE



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.01 min

Lab File: VF059435.D

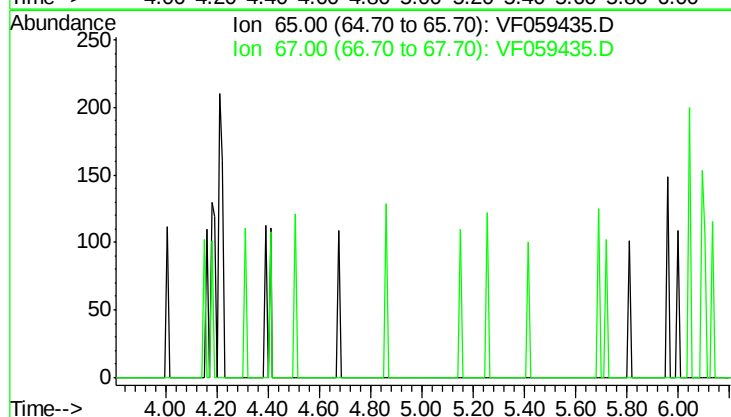
Acq: 5 Jul 2018 15:44

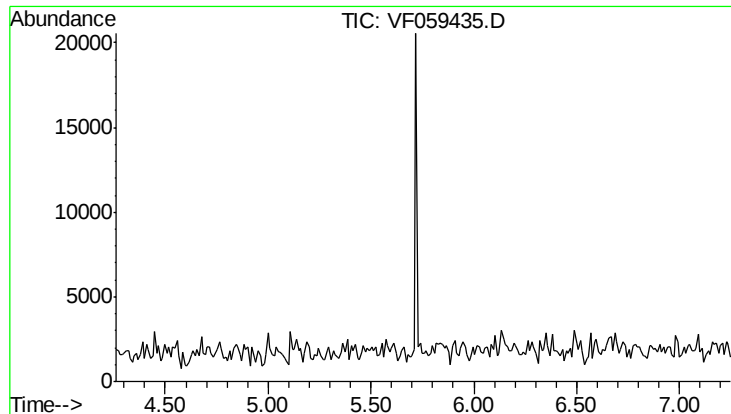
Tgt Ion: 65

Sig Exp Ratio

65 100

67 48.4

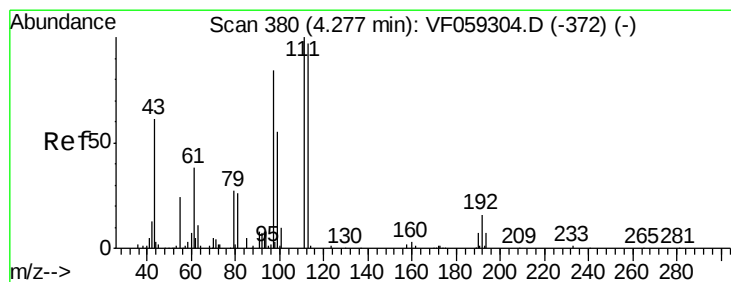
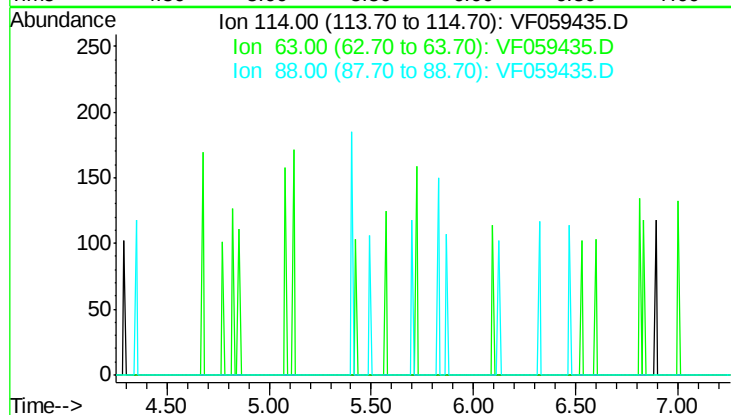




#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 5.76 min
 Lab File: VF059435.D
 Acq: 5 Jul 2018 15:44

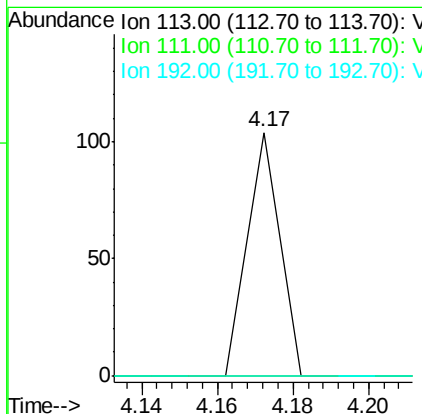
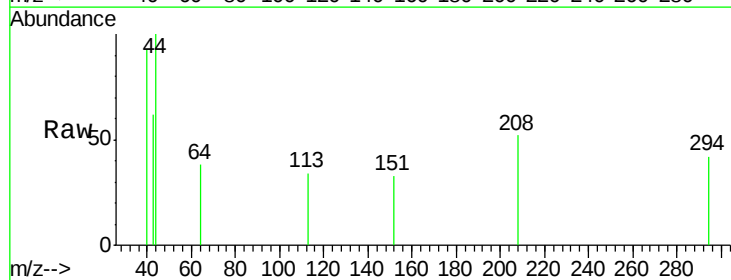
Instrument :
 MSVOA_F
 ClientSampleId :
 FK-GF-03-005-ARE

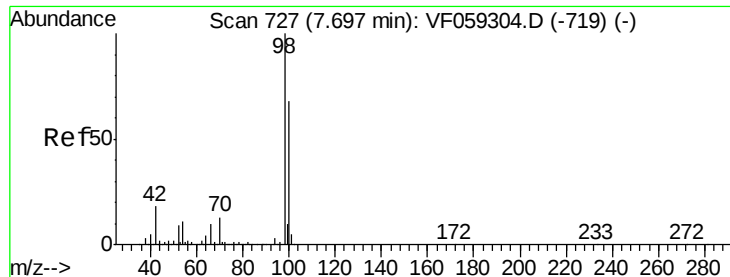
Tot Ion	114
Exp Ratio	100
63	22.9
88	20.6



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 RT: 4.17 min Scan# 369
 Delta R.T. -0.10 min
 Lab File: VF059435.D
 Acq: 5 Jul 2018 15:44

Tgt Ion	113	Resp	Lower	Upper
Ion Ratio	100			
111	0.0	82.1	123.1#	
192	0.0	13.0	19.6#	





#50

Toluene-d8

Concen: 0.000 ug/l

RT: 7.74 min Scan# 731

Delta R.T. 0.04 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

Instrument :

MSVOA_F

ClientSampleId :

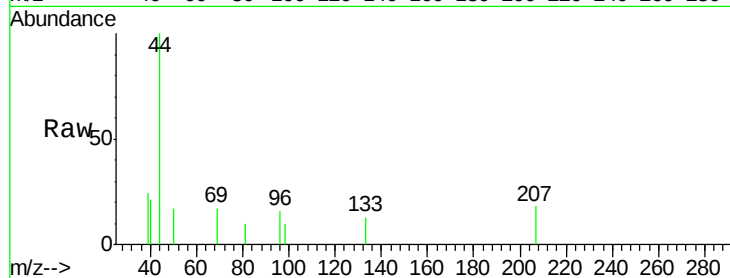
FK-GF-03-005-ARE

Tot Ion: 98 Resp: 59

Ion Ratio Lower Upper

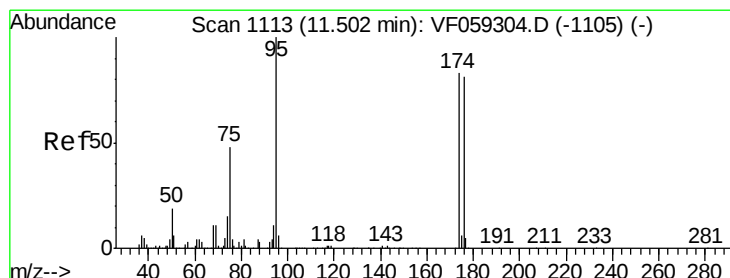
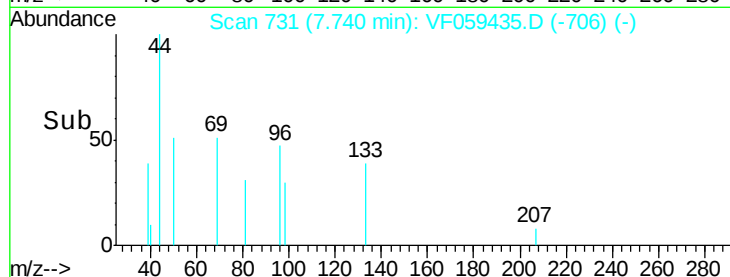
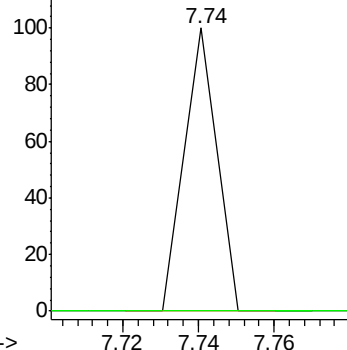
98 100

100 0.0 54.6 82.0#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

RT: 11.56 min Scan# 1118

Delta R.T. 0.05 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

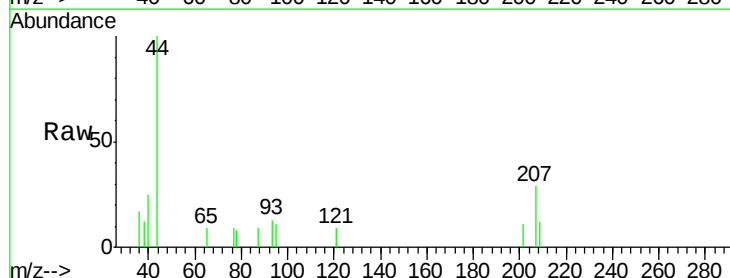
Tgt Ion: 95 Resp: 78

Ion Ratio Lower Upper

95 100

174 0.0 0.0 165.2

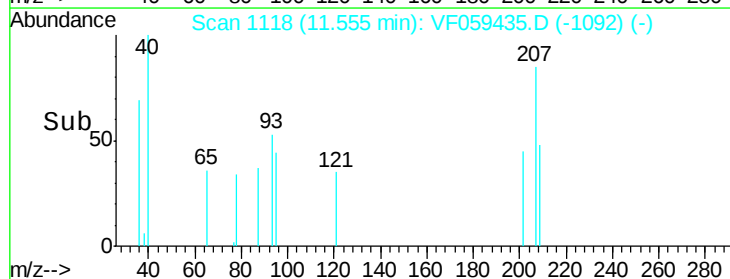
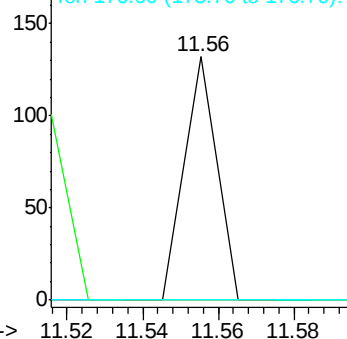
176 0.0 0.0 161.0

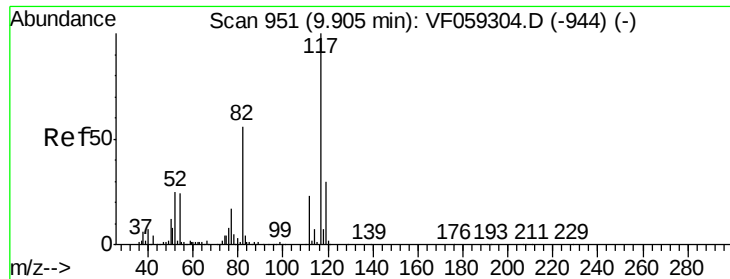


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

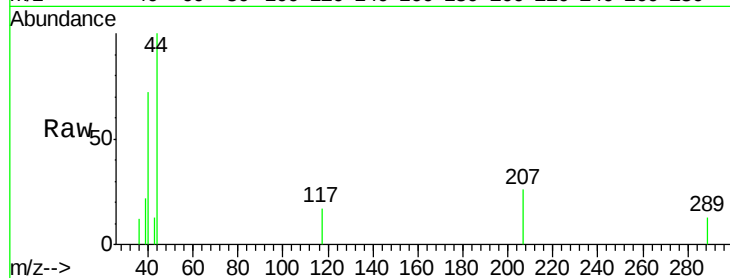




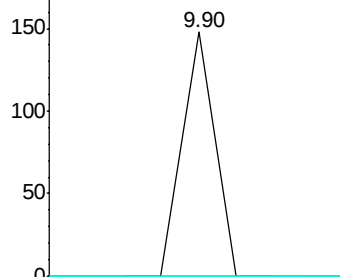
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.01 min
Lab File: VF059435.D
Acq: 5 Jul 2018 15:44

Instrument :
MSVOA_F
ClientSampleId :
FK-GF-03-005-ARE

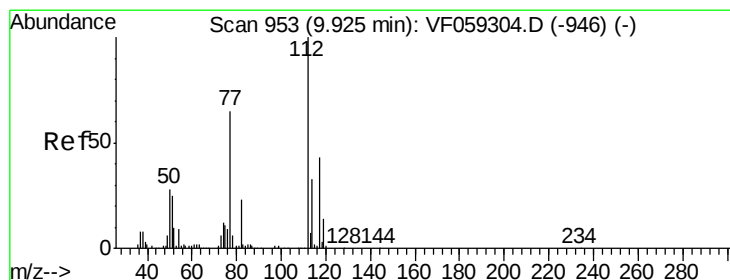
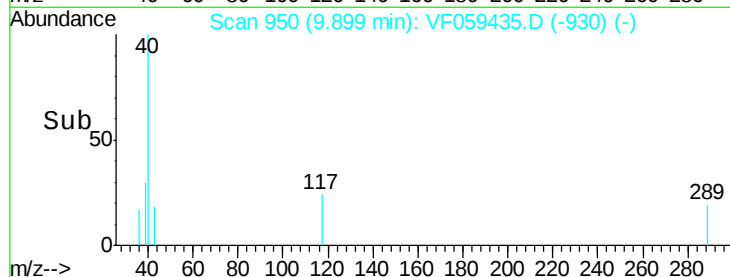
Tot Ion	Ratio	Lower	Upper
117	100		
82	0.0	44.6	66.8#
119	0.0	24.1	36.1#



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

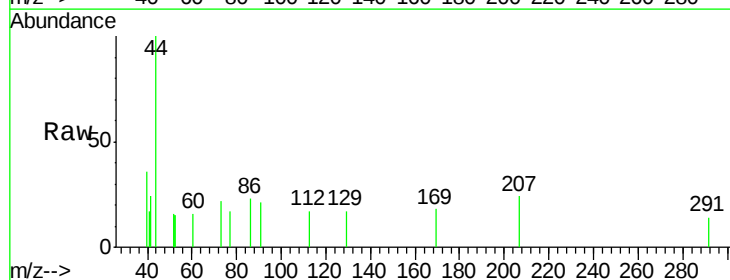


Time--> 9.86 9.88 9.90 9.92

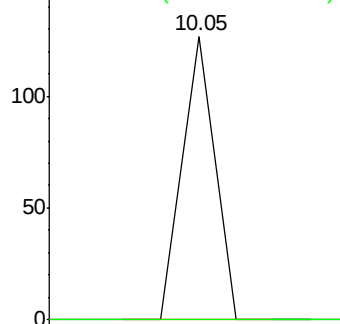


#65
Chlorobenzene
Concen: 45.994 ug/l
RT: 10.05 min Scan# 965
Delta R.T. 0.12 min
Lab File: VF059435.D
Acq: 5 Jul 2018 15:44

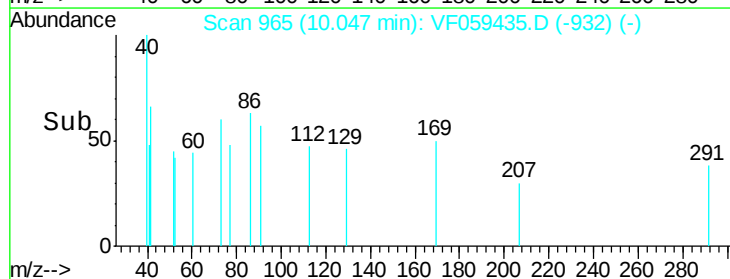
Tgt Ion	Ratio	Lower	Upper
112	100		
114	0.0	26.5	39.7#

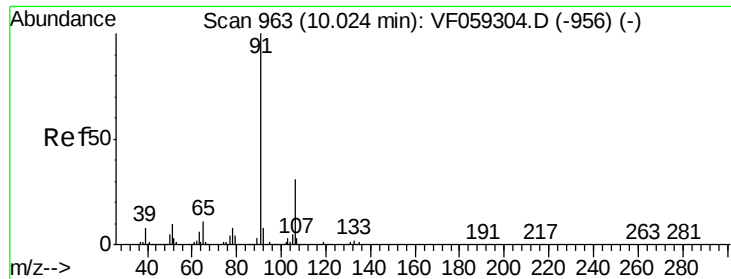


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V



Time--> 10.02 10.04 10.06





#67

Ethyl Benzene

Concen: 32.896 ug/l

RT: 10.05 min Scan# 965

Delta R.T. 0.02 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

Instrument :

MSVOA_F

ClientSampleId :

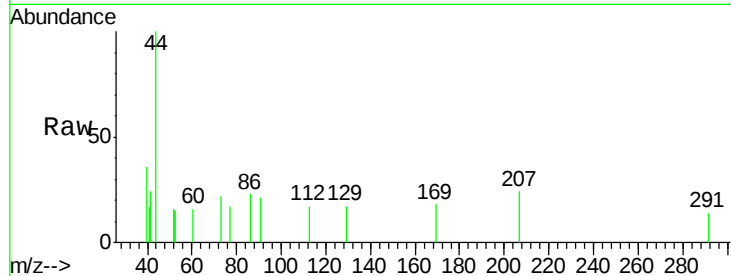
FK-GF-03-005-ARE

Tot Ion: 91 Resp: 91

Ion Ratio Lower Upper

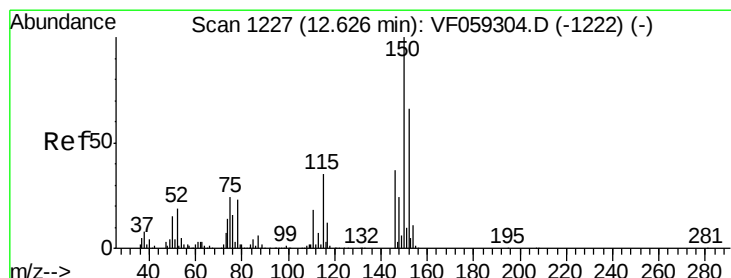
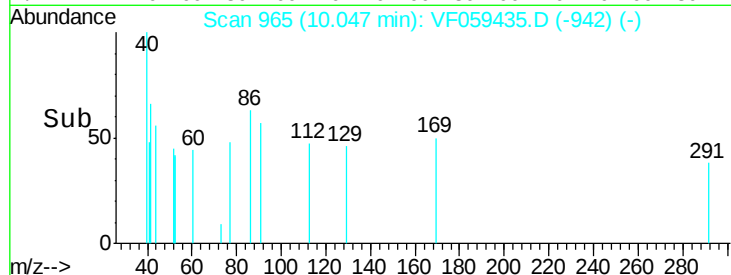
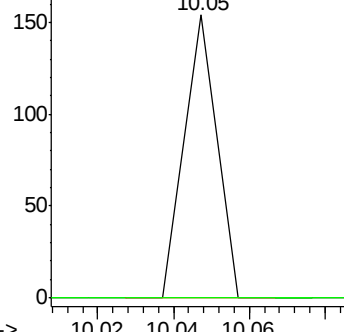
91 100

106 0.0 24.8 37.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

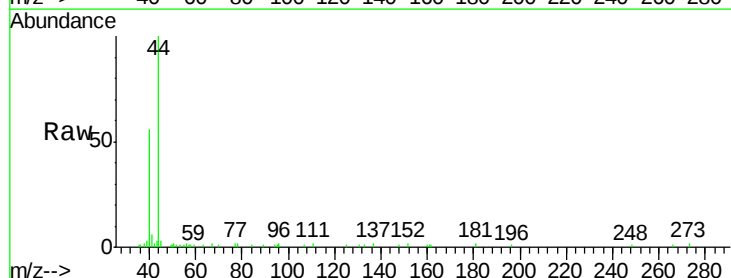
Tgt Ion: 152 Resp: 111

Ion Ratio Lower Upper

152 100

115 0.0 27.1 81.3#

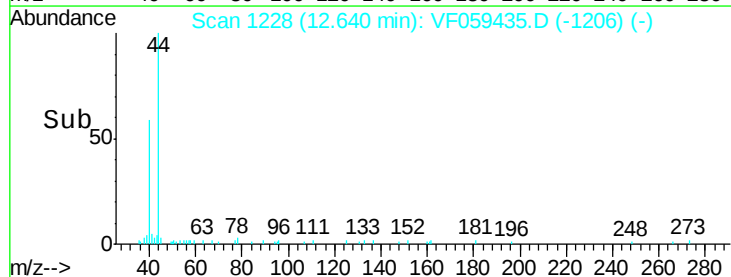
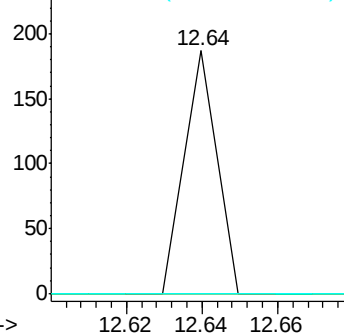
150 0.0 0.0 305.2

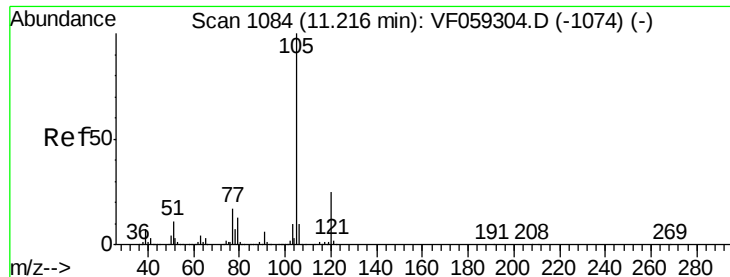


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 9.433 ug/l

RT: 11.15 min Scan# 1077

Delta R.T. -0.07 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

Instrument :

MSVOA_F

ClientSampleId :

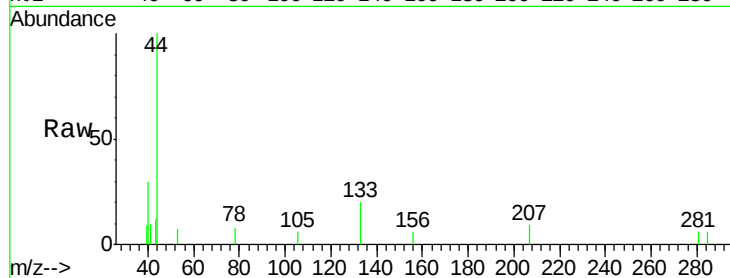
FK-GF-03-005-ARE

Tot Ion:105 Resp: 61

Ion Ratio Lower Upper

105 100

120 0.0 12.3 36.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.15

100

80

60

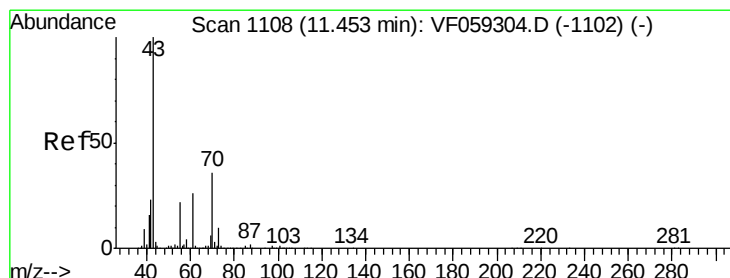
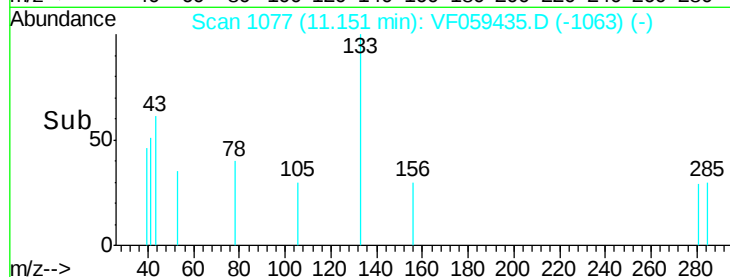
40

20

0

Time-->

11.12 11.14 11.16 11.18



#74

N-ethyl acetate

Concen: 49.858 ug/l

RT: 11.48 min Scan# 1110

Delta R.T. 0.02 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

Tgt Ion: 43 Resp: 117

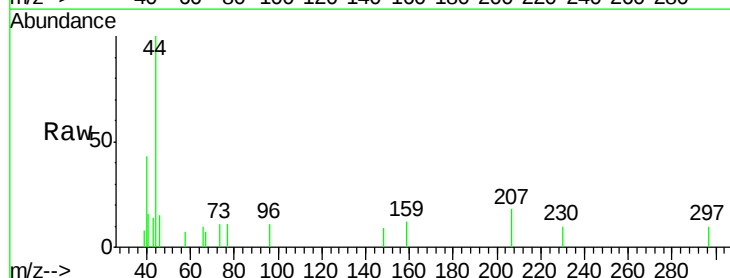
Ion Ratio Lower Upper

43 100

70 0.0 28.8 43.2#

55 0.0 17.4 26.0#

61 0.0 21.1 31.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

300

250

200

150

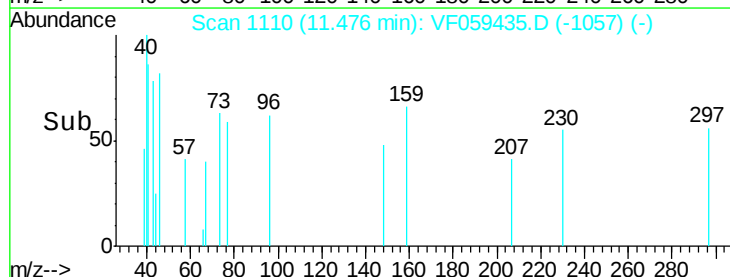
100

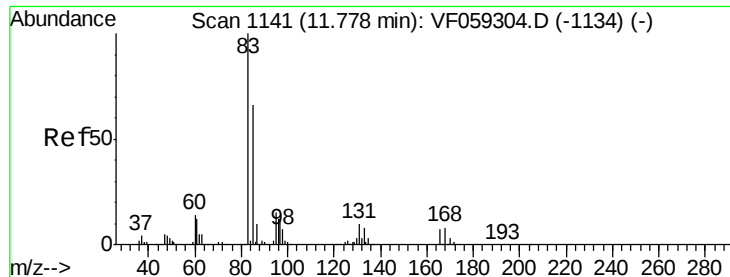
50

0

Time-->

11.46 11.47 11.48 11.49





#75

1,1,2,2-Tetrachloroethane

Concen: 91.847 ug/l

RT: 11.70 min Scan# 1133

Delta R.T. -0.08 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

Instrument :

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ClientSampleId :

FK-GF-03-005-ARE

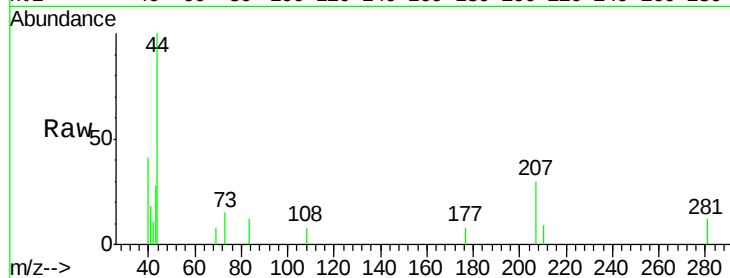
Tot Ion: 83 Resp: 150

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.6#

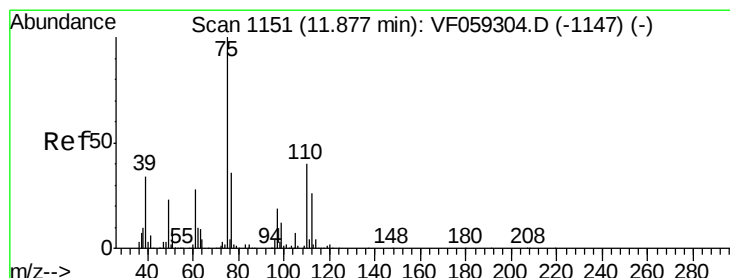
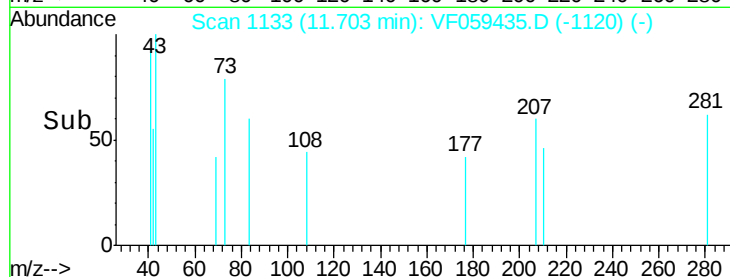
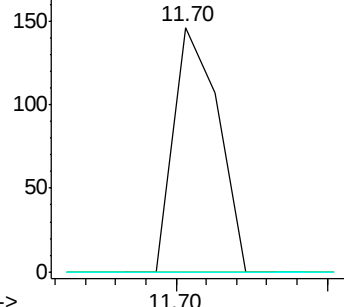
85 0.0 32.8 98.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 85.231 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.10 min

Lab File: VF059435.D

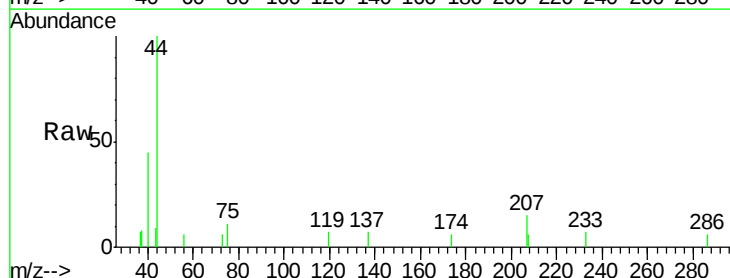
Acq: 5 Jul 2018 15:44

Tgt Ion: 75 Resp: 105

Ion Ratio Lower Upper

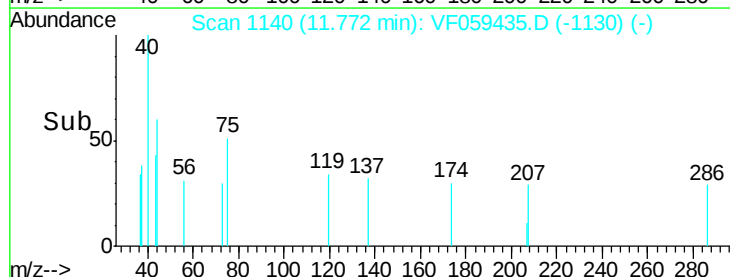
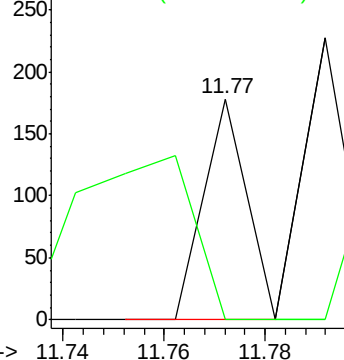
75 100

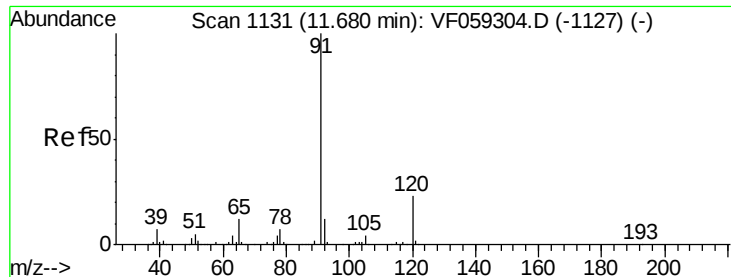
77 0.0 18.0 54.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#78

n-propylbenzene

Concen: 10.430 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. 0.14 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

Instrument :

MSVOA_F

ClientSampleId :

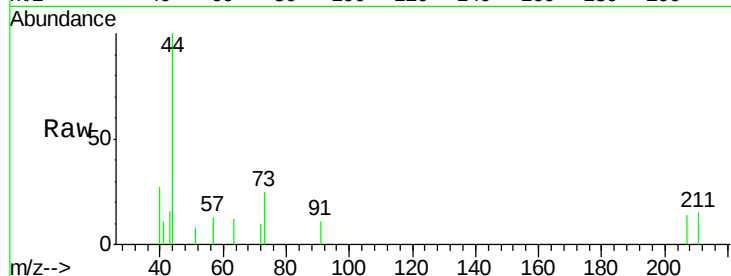
FK-GF-03-005-ARE

Tot Ion: 91 Resp: 81

Ion Ratio Lower Upper

91 100

120 0.0 11.7 35.0#

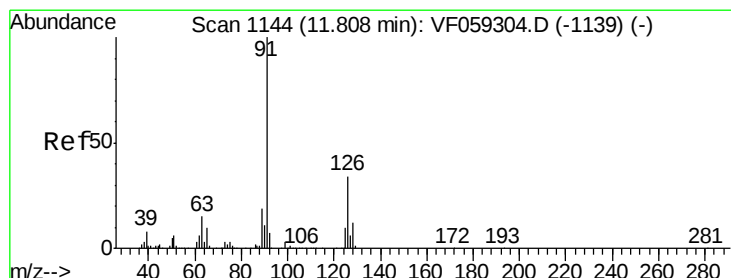
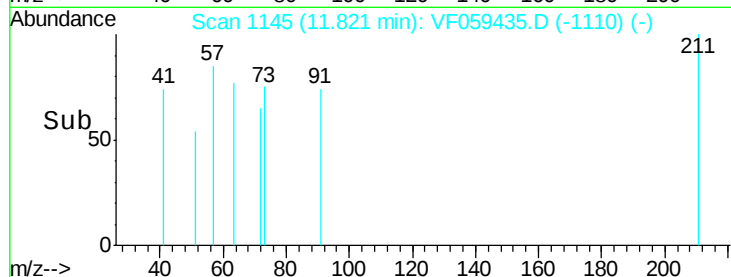


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.82

11.80 11.82 11.84



#79

2-Chlorotoluene

Concen: 17.072 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VF059435.D

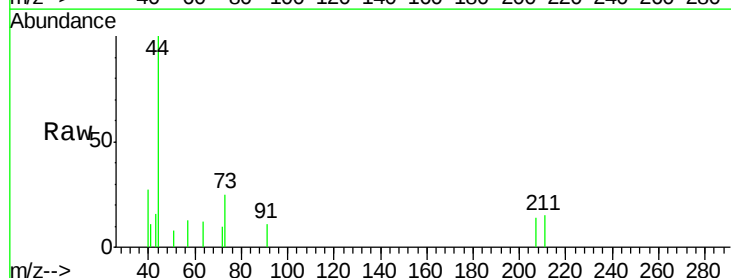
Acq: 5 Jul 2018 15:44

Tgt Ion: 91 Resp: 81

Ion Ratio Lower Upper

91 100

126 0.0 17.2 51.5#

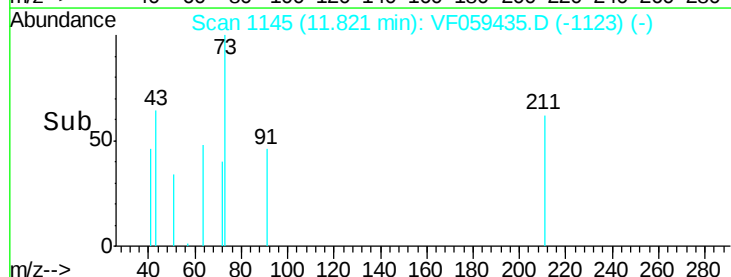


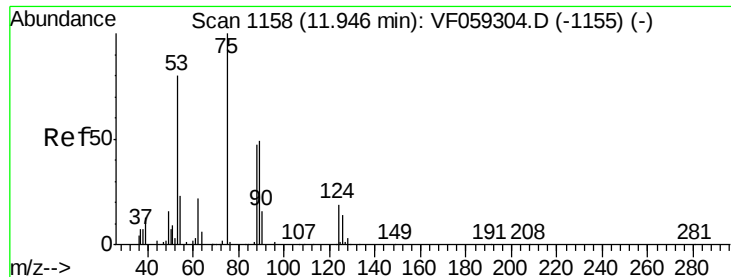
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.82

11.80 11.82 11.84





#81

trans-1,4-Dichloro-2-butene

Concen: 143.202 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.17 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

Instrument :

MSVOA_F

ClientSampleId :

FK-GF-03-005-ARE

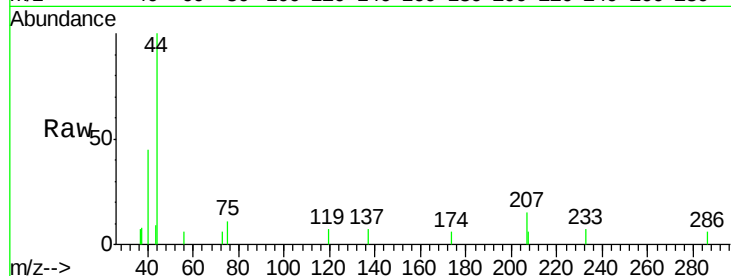
Tot Ion: 75 Resp: 105

Ion Ratio Lower Upper

75 100

53 0.0 68.8 103.2#

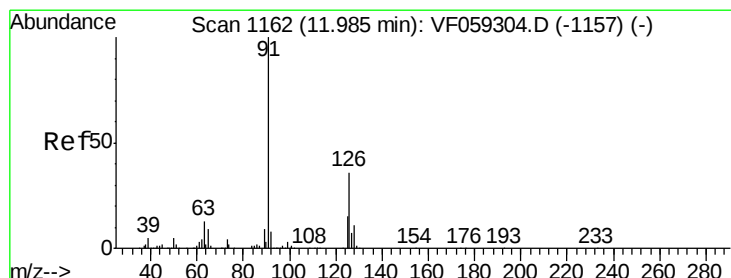
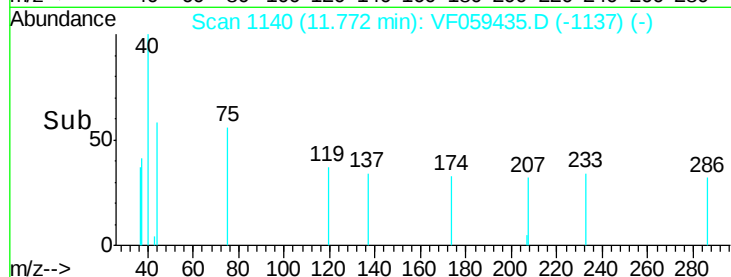
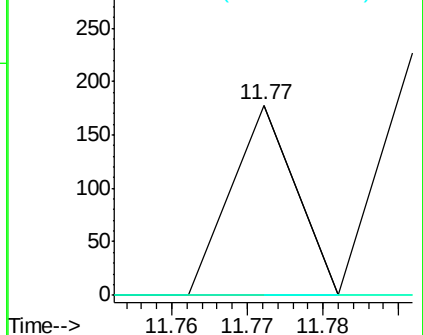
89 0.0 42.0 63.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 13.577 ug/l

RT: 12.04 min Scan# 1167

Delta R.T. 0.05 min

Lab File: VF059435.D

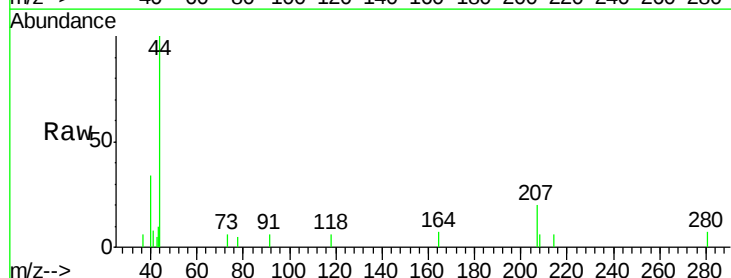
Acq: 5 Jul 2018 15:44

Tgt Ion: 91 Resp: 69

Ion Ratio Lower Upper

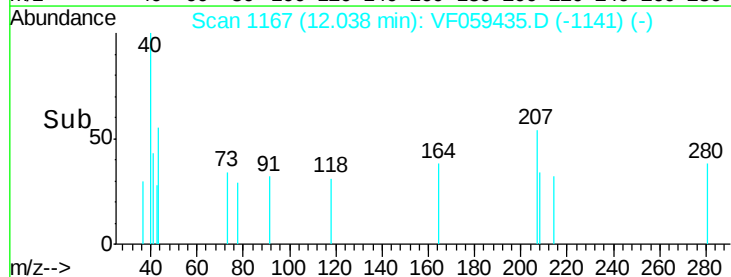
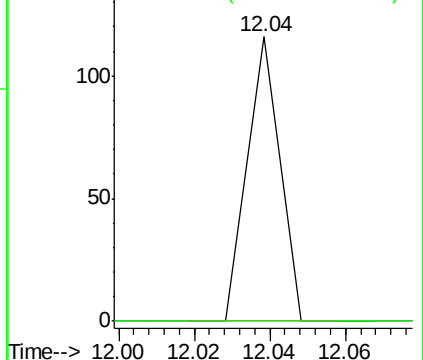
91 100

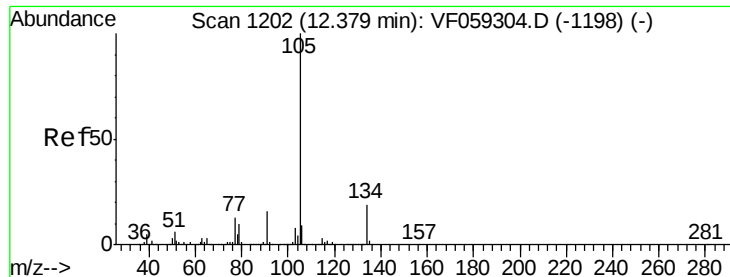
126 0.0 18.2 54.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#85

sec-Butylbenzene

Concen: 8.123 ug/l

RT: 12.51 min Scan# 1215

Delta R.T. 0.13 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

Instrument :

MSVOA_F

ClientSampleId :

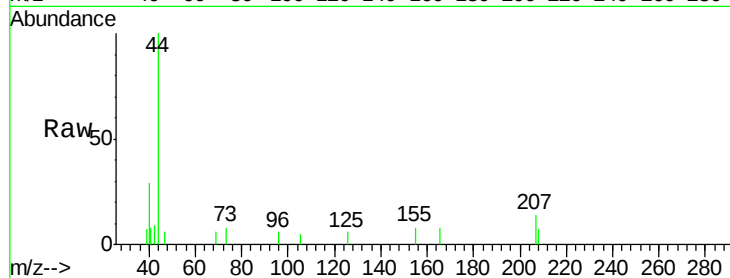
FK-GF-03-005-ARE

Tot Ion:105 Resp: 61

Ion Ratio Lower Upper

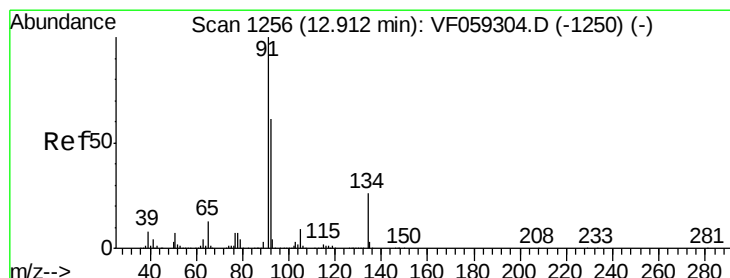
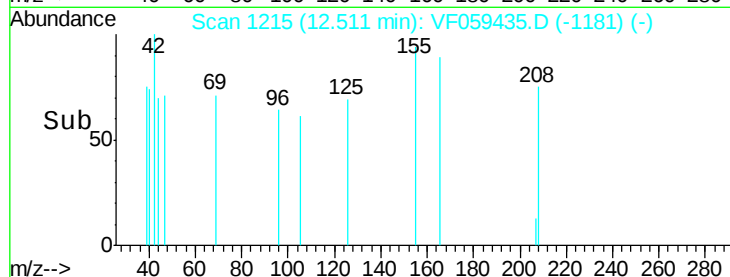
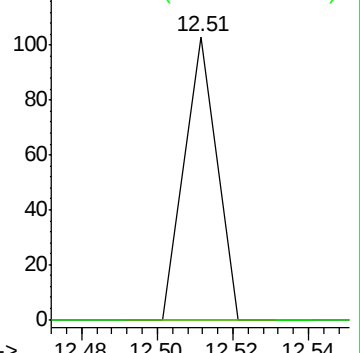
105 100

134 0.0 9.4 28.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 11.098 ug/l

RT: 12.92 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

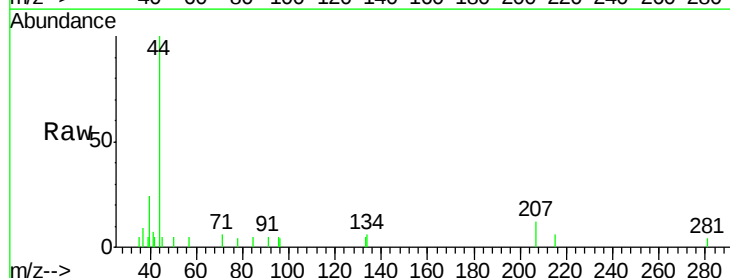
Tgt Ion: 91 Resp: 71

Ion Ratio Lower Upper

91 100

92 0.0 30.3 91.0#

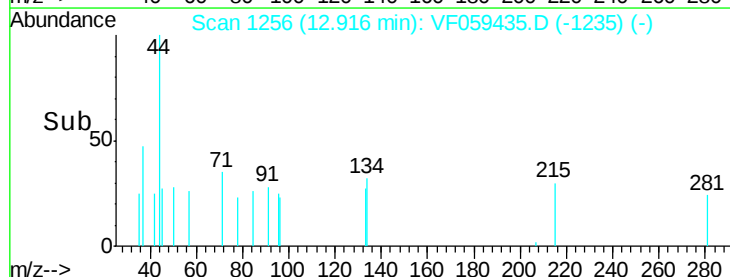
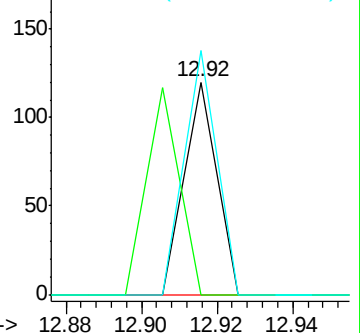
134 115.0 12.9 38.7#

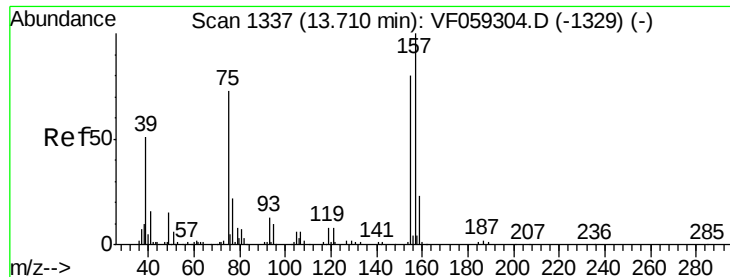


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 320.412 ug/l

RT: 13.65 min Scan# 1331

Delta R.T. -0.06 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

Instrument :

MSVOA_F

ClientSampleId :

FK-GF-03-005-ARE

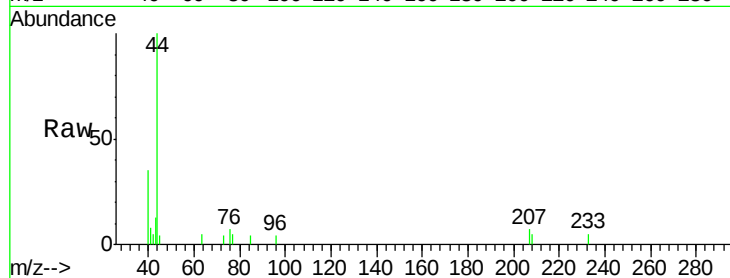
Tot Ion: 75 Resp: 116

Ion Ratio Lower Upper

75 100

155 0.0 54.6 163.8#

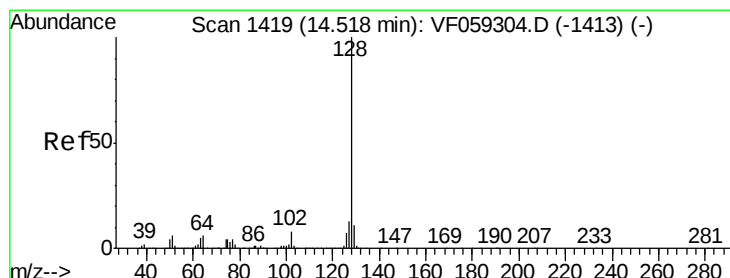
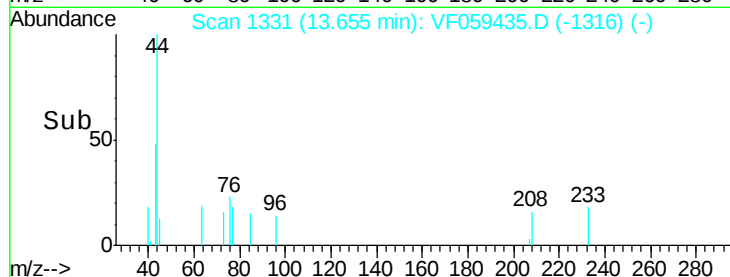
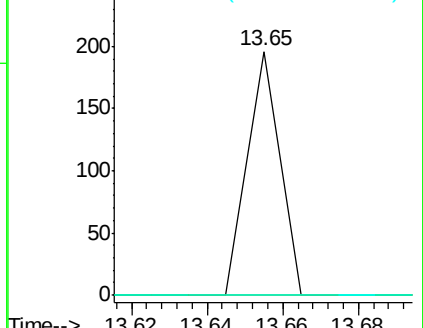
157 0.0 68.7 205.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#95

Naphthalene

Concen: 14.091 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. 0.00 min

Lab File: VF059435.D

Acq: 5 Jul 2018 15:44

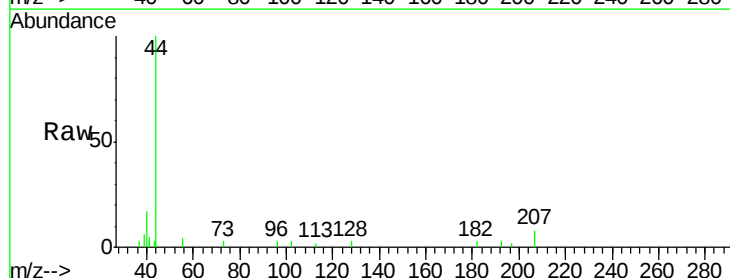
Tgt Ion:128 Resp: 71

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

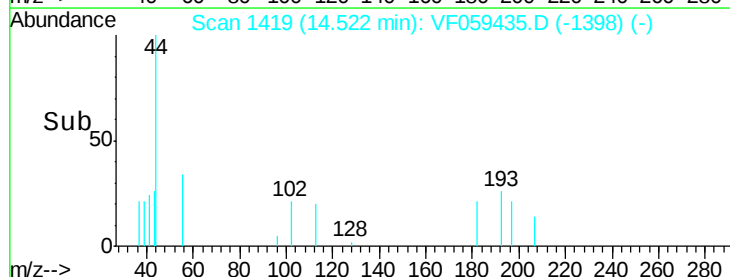
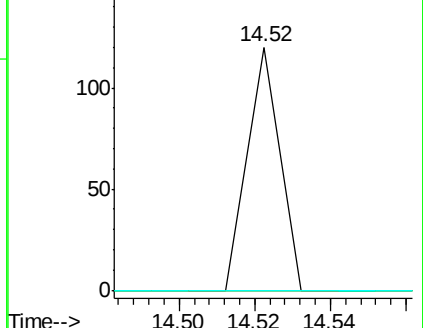
129 0.0 8.8 13.2#

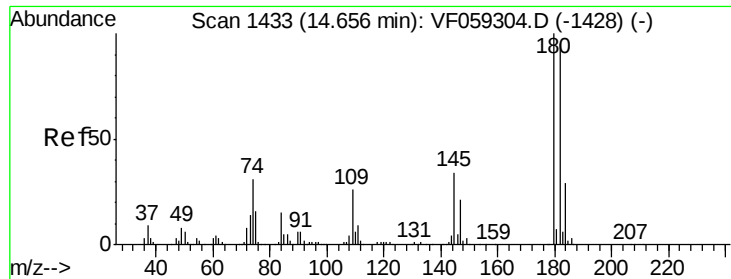


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 26.737 ug/l
 RT: 14.63 min Scan# 1430
 Delta R.T. -0.03 min
 Lab File: VF059435.D
 Acq: 5 Jul 2018 15:44

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-GF-03-005-ARE

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.5	142.5#
145	0.0	17.0	50.9#

