

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059337.D
 Acq On : 27 Jun 2018 14:23
 Operator : VA/AP
 Sample : J3684-10RE
 Misc : 6.25g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 27 16:04:31 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	10.01	117	104	50.00	ug/l	0.11
72) 1,4-Dichlorobenzene-d4	12.55	152	70	50.00	ug/l	-0.08

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	4.12	113	84	0.00	ug/l	-0.16
Spiked Amount				50.000		
			Recovery	=	0.00%	
50) Toluene-d8	7.69	98	61	0.00	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount				50.000		
			Recovery	=	0.00%	

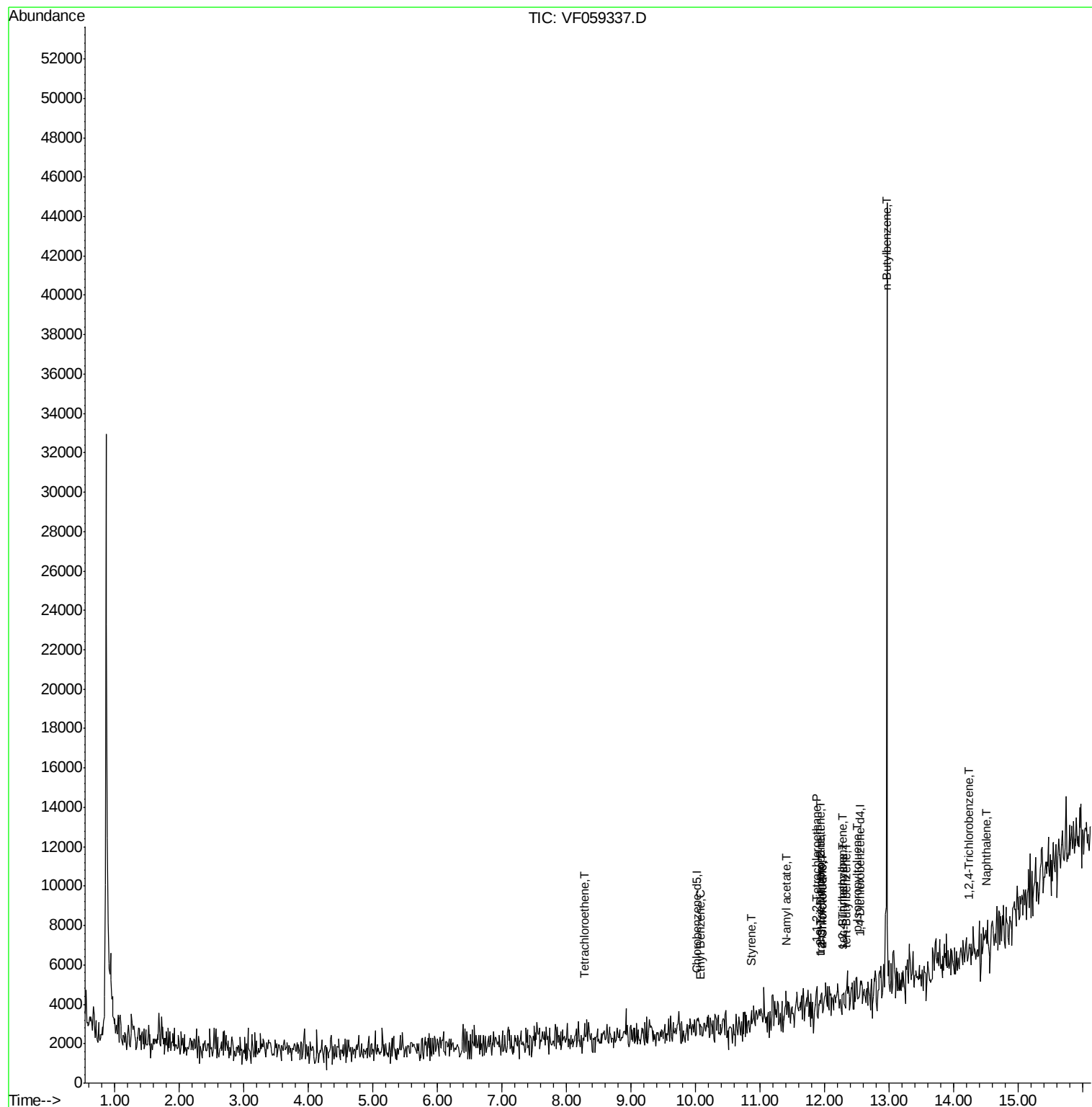
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
64) Tetrachloroethene	8.28	164	64	94.88	ug/l #	1
67) Ethyl Benzene	10.07	91	246	75.25	ug/l #	44
70) Styrene	10.86	104	60	30.26	ug/l #	29
74) N-amyl acetate	11.41	43	364	245.97	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.89	83	61	59.23	ug/l #	24
76) 1,2,3-Trichloropropane	11.93	75	158	203.37	ug/l #	39
79) 2-Chlorotoluene	11.95	91	85	28.41	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.93	75	158	341.70	ug/l #	37
82) 4-Chlorotoluene	11.95	91	85	26.52	ug/l #	38
83) tert-Butylbenzene	12.32	119	64	17.91	ug/l #	31
84) 1,2,4-Trimethylbenzene	12.27	105	82	21.80	ug/l #	31
85) sec-Butylbenzene	12.27	105	82	17.31	ug/l #	58
86) p-Isopropyltoluene	12.50	119	62	15.60	ug/l #	50
89) n-Butylbenzene	12.95	91	75	18.59	ug/l #	29
93) 1,2,4-Trichlorobenzene	14.22	180	62	40.82	ug/l #	12
95) Naphthalene	14.49	128	62	19.51	ug/l #	1

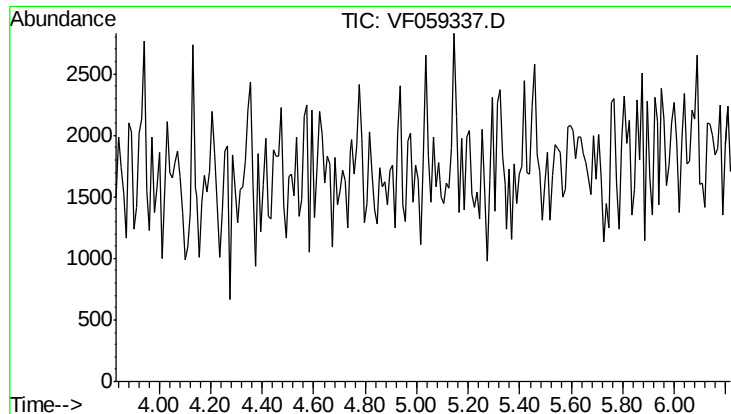
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.00 ug/l

Expected RT: 5.03 min

Lab File: VF059337.D

Acq: 27 Jun 2018 14:23

Tot Ion: 168

Sig Exp Ratio

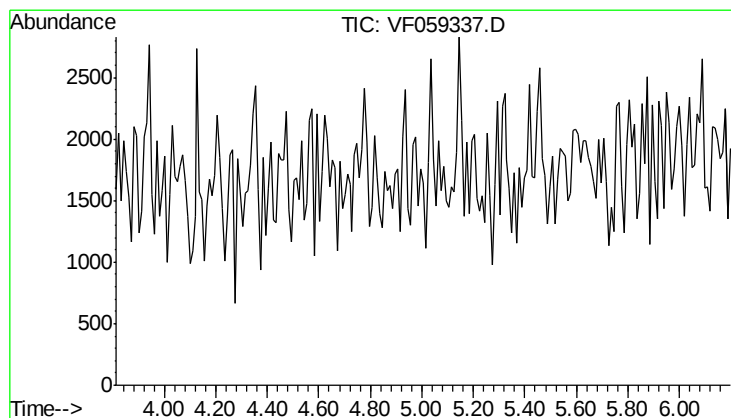
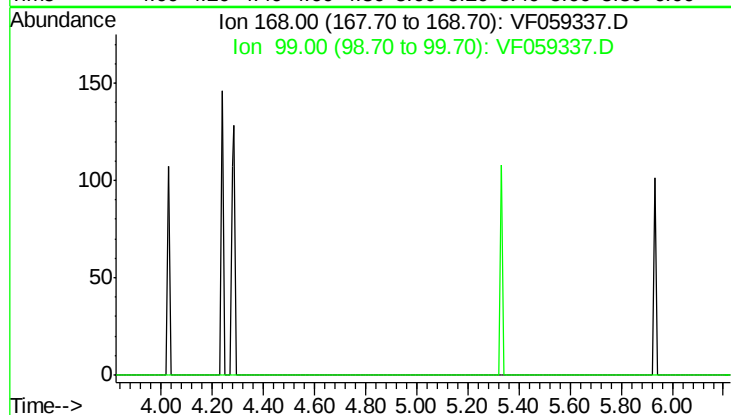
168 100

99 68.6

Instrument :

MSVOA_F

ClientSampleId :



#33

1,2-Dichloroethane-d4

Concen: 0.00 ug/l

Expected RT: 5.01 min

Lab File: VF059337.D

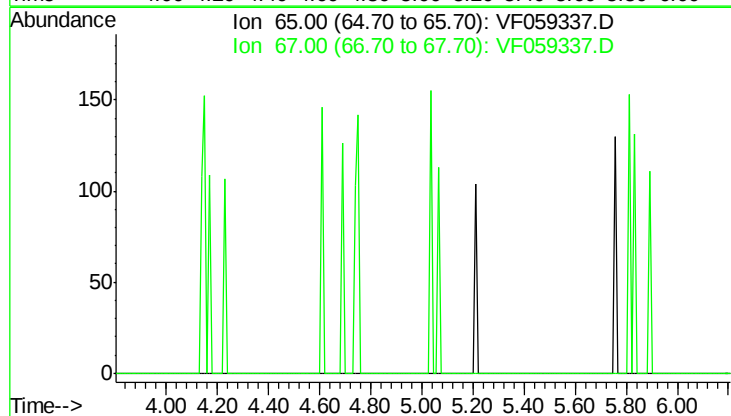
Acq: 27 Jun 2018 14:23

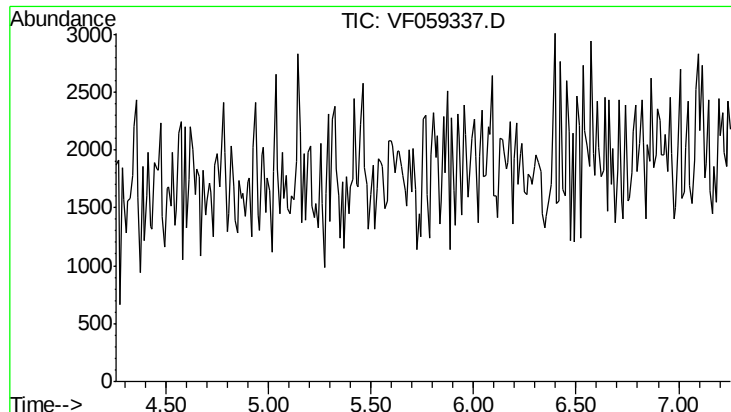
Tgt Ion: 65

Sig Exp Ratio

65 100

67 48.4

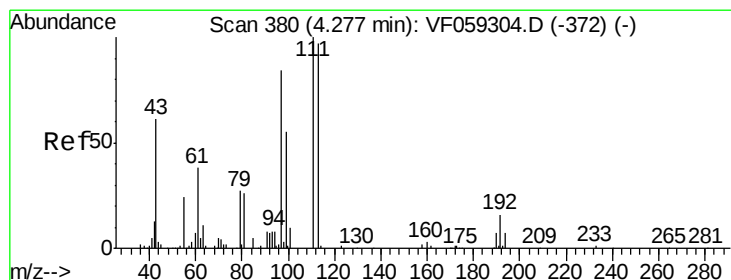
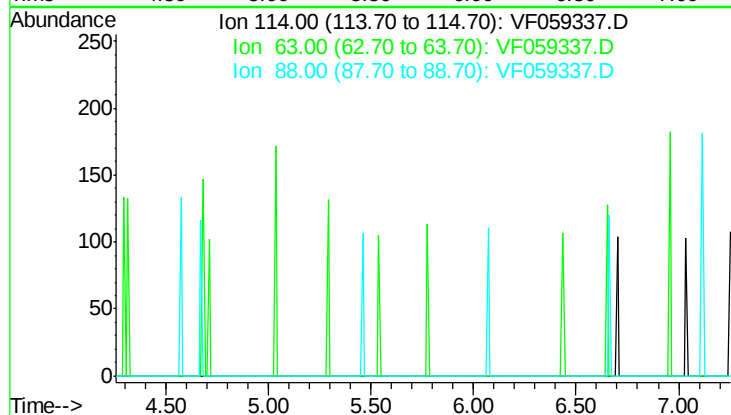




#34
 1,4-Difluorobenzene
 Concen: 0.00 ug/l
 Expected RT: 5.76 min
 Lab File: VF059337.D
 Acq: 27 Jun 2018 14:23

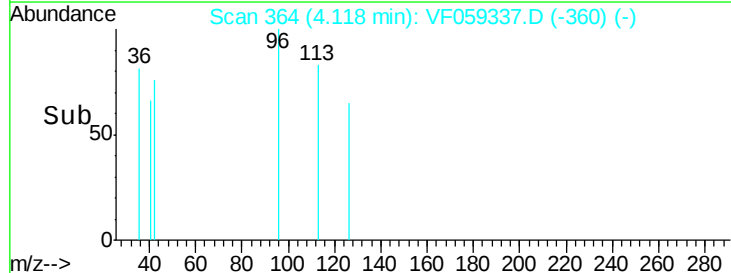
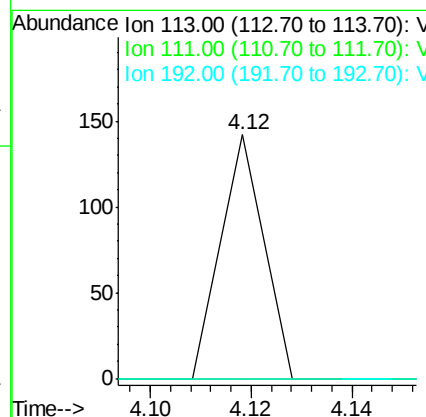
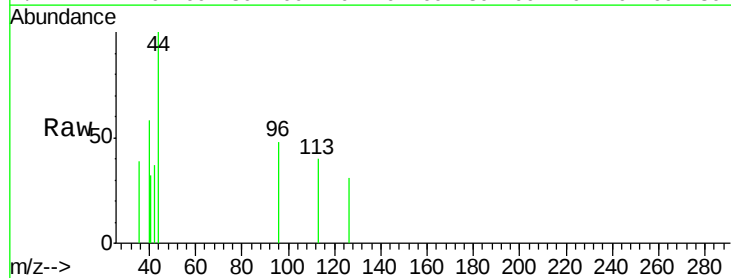
Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	114
Exp Ratio	100
63	22.9
88	20.6



#35
 Dibromofluoromethane
 Concen: 0.00 ug/l
 RT: 4.12 min Scan# 364
 Delta R.T. -0.16 min
 Lab File: VF059337.D
 Acq: 27 Jun 2018 14:23

Tgt Ion	113	Resp	84
Ion Ratio	100	Lower	Upper
111	0.0	82.1	123.1#
192	0.0	13.0	19.6#





#50

Toluene-d8

Concen: 0.00 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059337.D

Acq: 27 Jun 2018 14:23

Instrument :

MSVOA_F

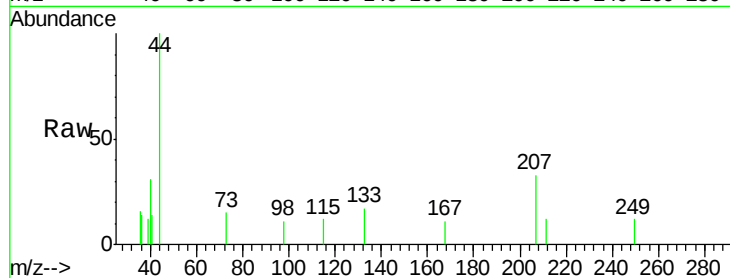
ClientSampleId :

Tot Ion: 98 Resp: 61

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): VF

7.69

100

80

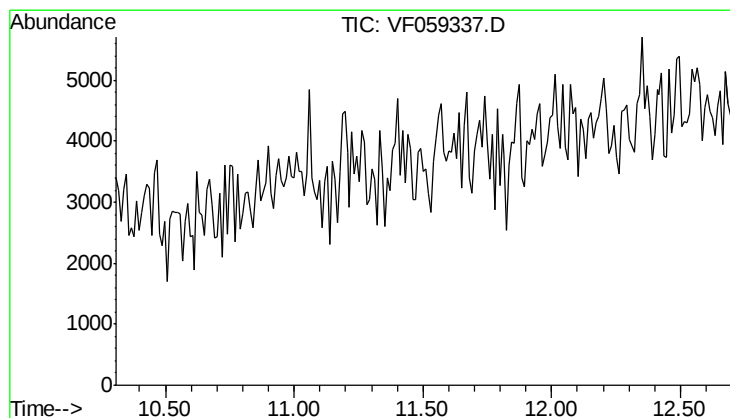
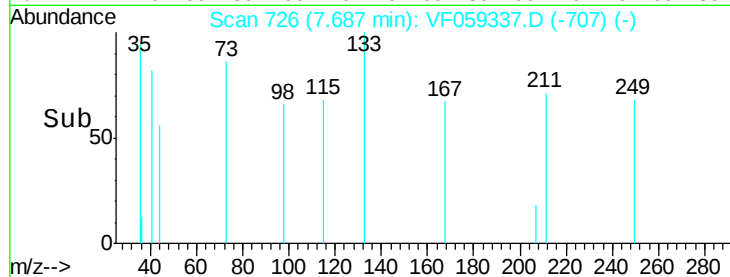
60

40

20

0

Time-->



#62

4-Bromofluorobenzene

Concen: 0.00 ug/l

Expected RT: 11.50 min

Lab File: VF059337.D

Acq: 27 Jun 2018 14:23

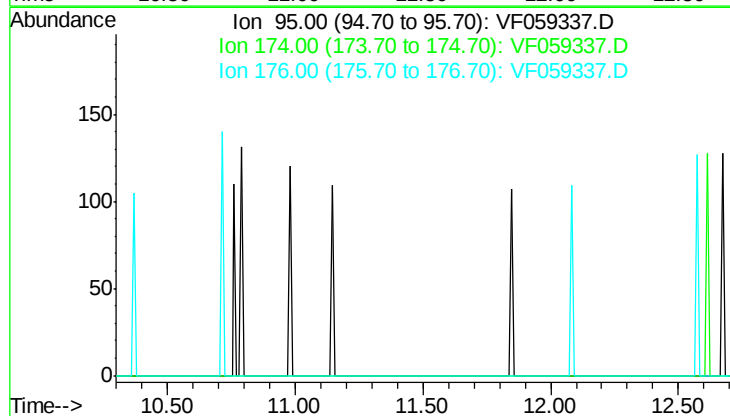
Tgt Ion: 95

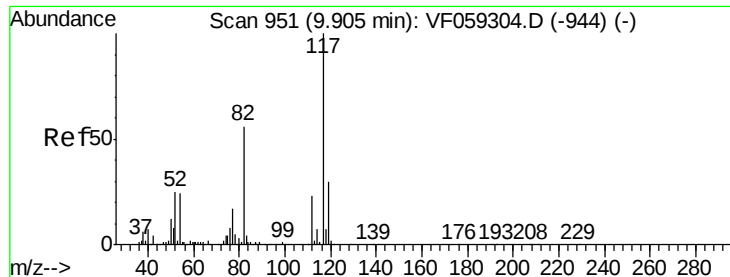
Sig Exp Ratio

95 100

174 82.6

176 80.5

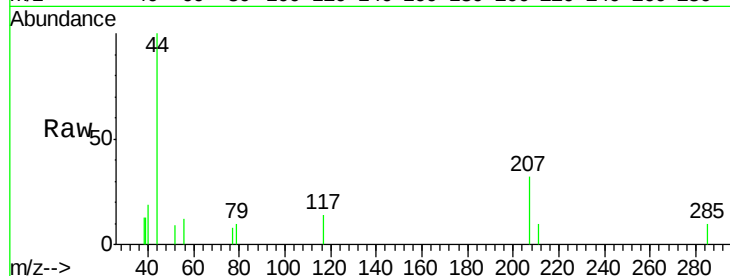




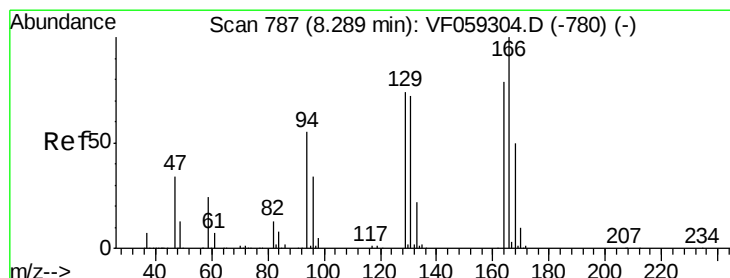
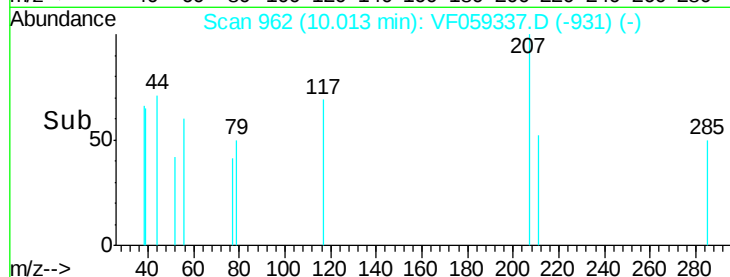
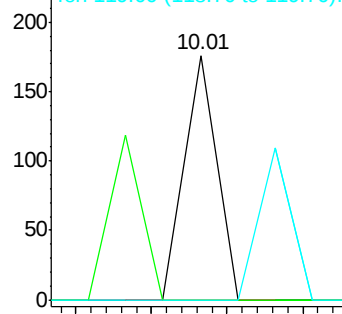
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.01 min Scan# 962
Delta R.T. 0.11 min
Lab File: VF059337.D
Acq: 27 Jun 2018 14:23

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:117 Resp: 104
Ion Ratio Lower Upper
117 100
82 0.0 44.6 66.8#
119 0.0 24.1 36.1#

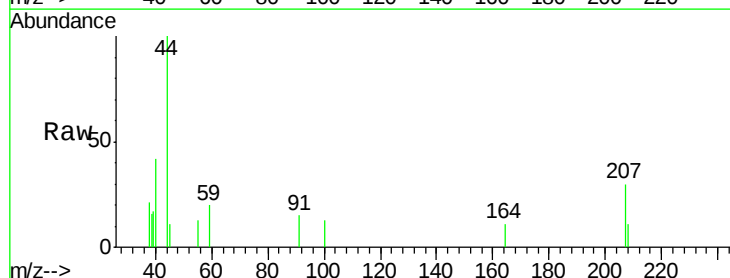


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

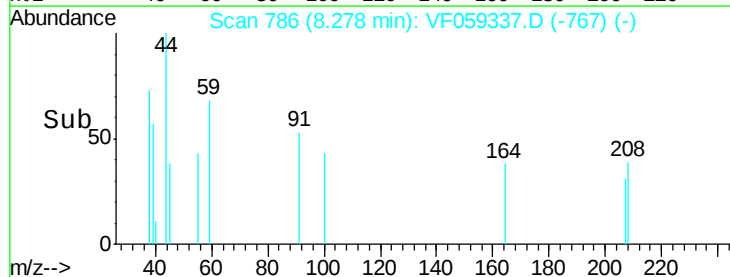
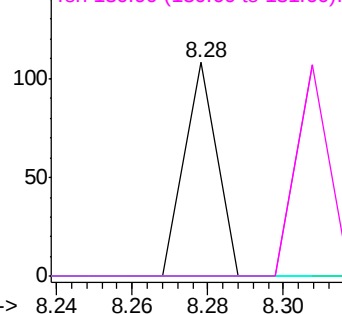


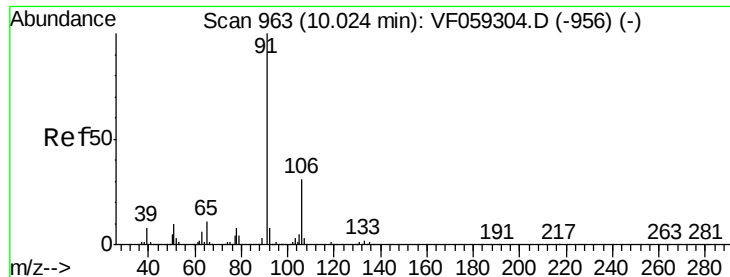
#64
Tetrachloroethene
Concen: 94.88 ug/l
RT: 8.28 min Scan# 786
Delta R.T. -0.01 min
Lab File: VF059337.D
Acq: 27 Jun 2018 14:23

Tgt Ion:164 Resp: 64
Ion Ratio Lower Upper
164 100
166 0.0 101.1 151.7#
129 0.0 75.0 112.4#
131 0.0 73.3 109.9#



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#67

Ethyl Benzene

Concen: 75.25 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.05 min

Lab File: VF059337.D

Acq: 27 Jun 2018 14:23

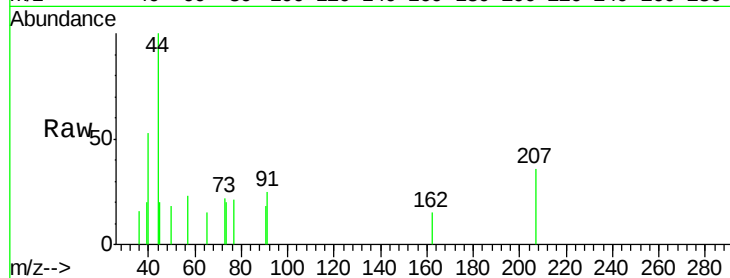
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 91 Resp: 246

Ion Ratio Lower Upper

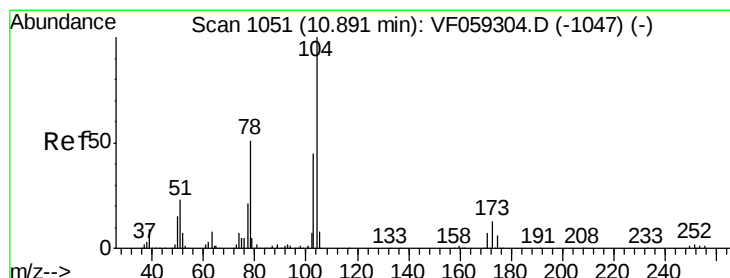
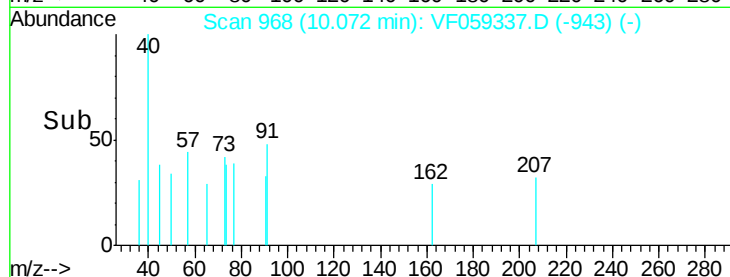
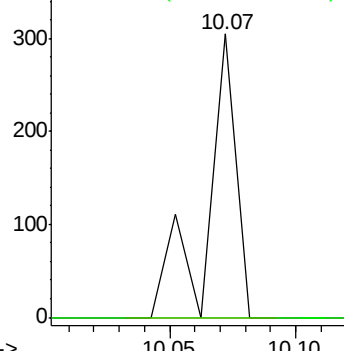
91 100

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



#70

Styrene

Concen: 30.26 ug/l

RT: 10.86 min Scan# 1048

Delta R.T. -0.03 min

Lab File: VF059337.D

Acq: 27 Jun 2018 14:23

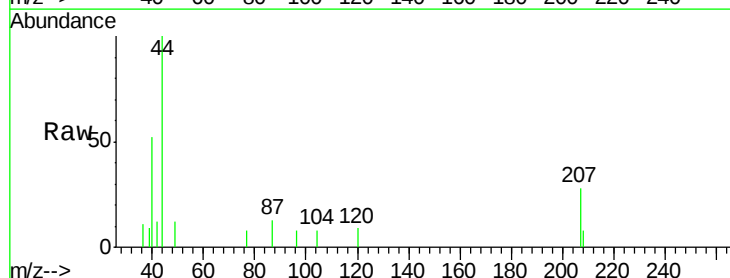
Tgt Ion: 104 Resp: 60

Ion Ratio Lower Upper

104 100

78 0.0 40.9 61.3#

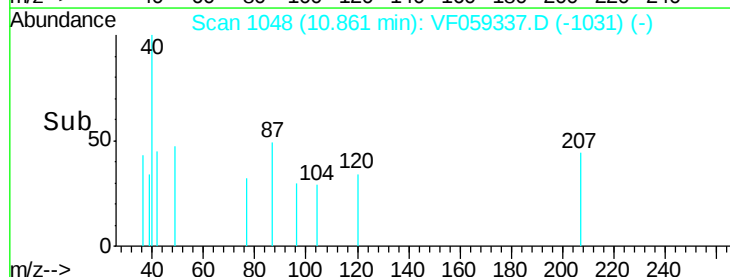
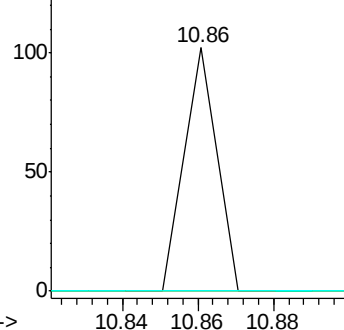
103 0.0 36.5 54.7#

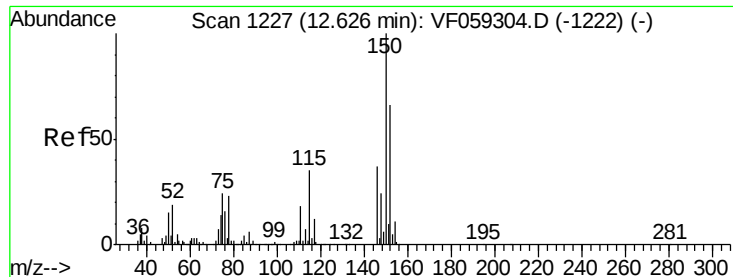


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.55 min Scan# 1219

Delta R.T. -0.08 min

Lab File: VF059337.D

Acq: 27 Jun 2018 14:23

Instrument :

MSVOA_F

ClientSampleId :

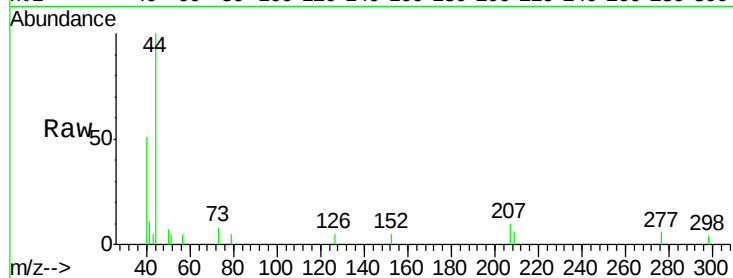
Tot Ion:152 Resp: 70

Ion Ratio Lower Upper

152 100

115 0.0 27.1 81.3#

150 0.0 0.0 305.2



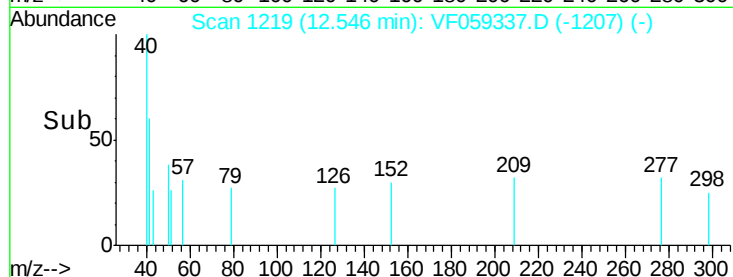
Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

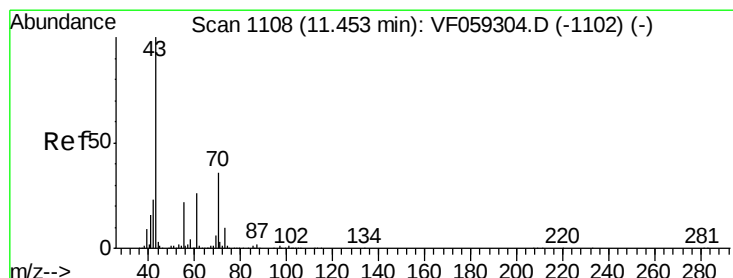
Ion 150.00 (149.70 to 150.70): V

12.55

12.56



Time-->



#74

N-ethyl acetate

Concen: 245.97 ug/l

RT: 11.41 min Scan# 1104

Delta R.T. -0.04 min

Lab File: VF059337.D

Acq: 27 Jun 2018 14:23

Tgt Ion: 43 Resp: 364

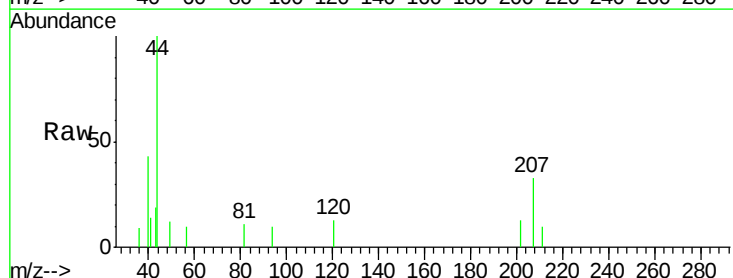
Ion Ratio Lower Upper

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

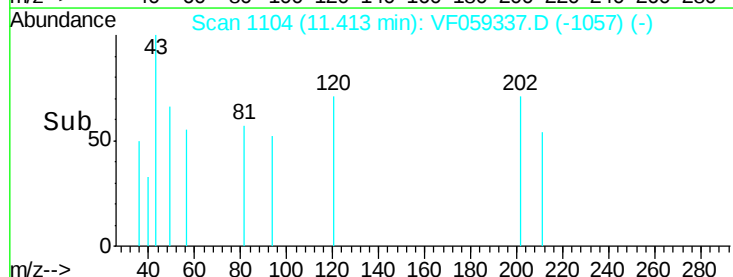
Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

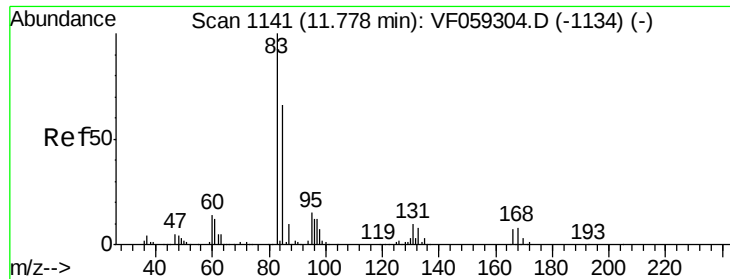
Ion 61.00 (60.70 to 61.70): VF0

11.41

11.45



Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: 59.23 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. 0.11 min

Lab File: VF059337.D

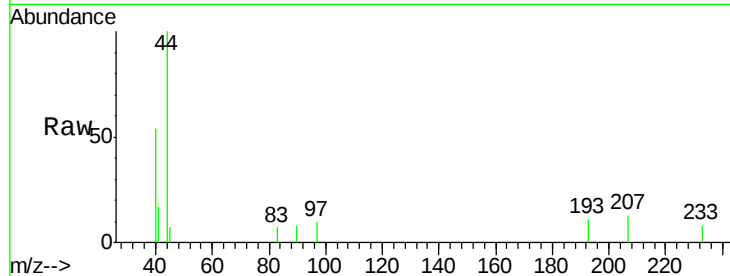
Acq: 27 Jun 2018 14:23

Instrument :

MSVOA_F

ClientSampleId :

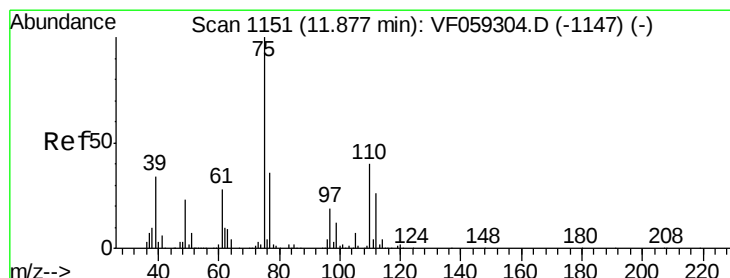
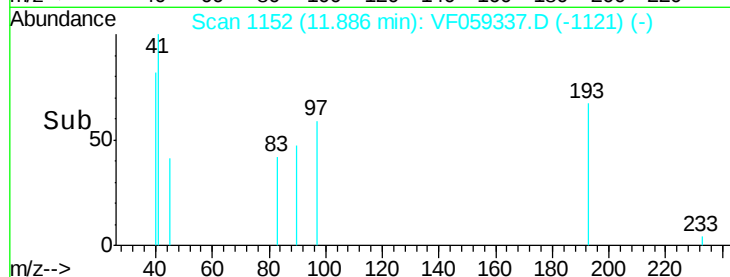
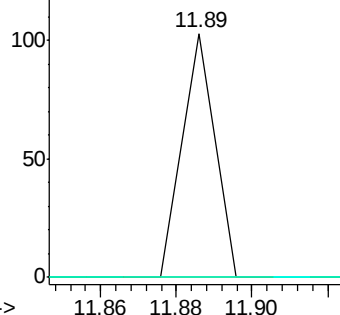
Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.6#
85	0.0	32.8	98.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 203.37 ug/l

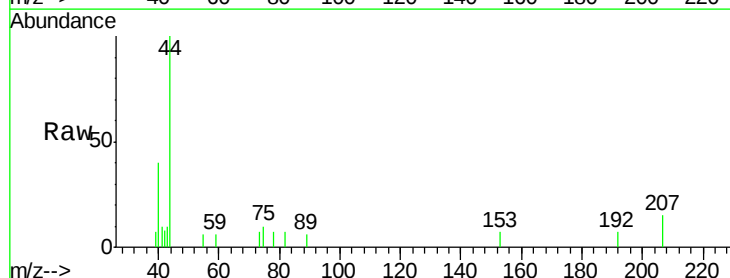
RT: 11.93 min Scan# 1156

Delta R.T. 0.05 min

Lab File: VF059337.D

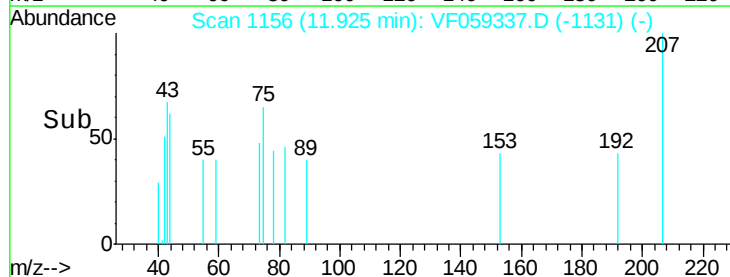
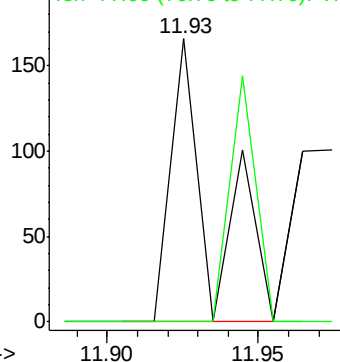
Acq: 27 Jun 2018 14:23

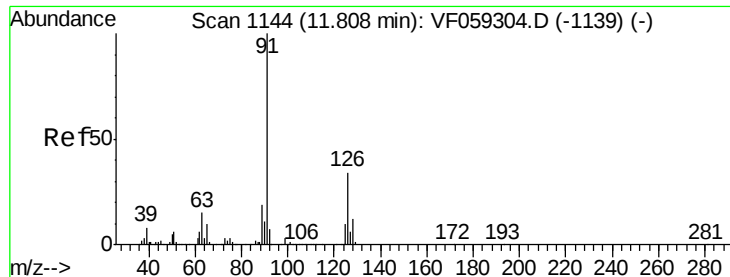
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	18.0	54.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

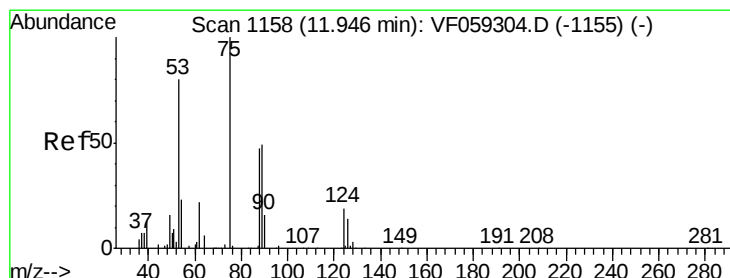
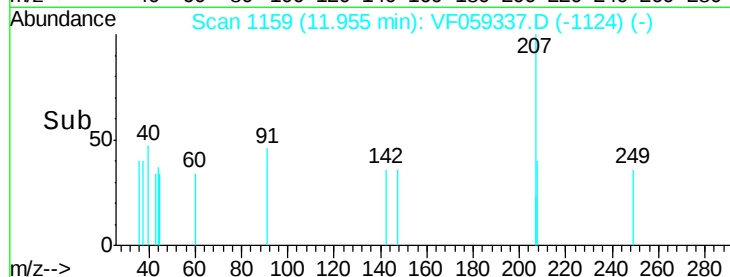
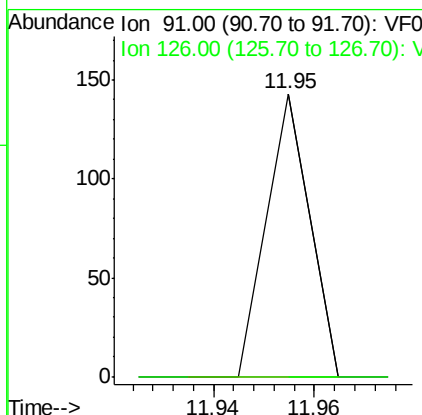
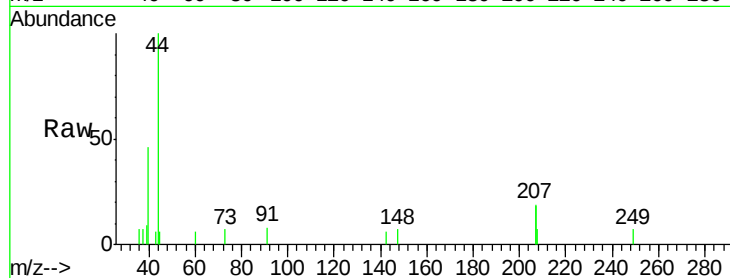




#79
 2-Chlorotoluene
 Concen: 28.41 ug/l
 RT: 11.95 min Scan# 1159
 Delta R.T. 0.15 min
 Lab File: VF059337.D
 Acq: 27 Jun 2018 14:23

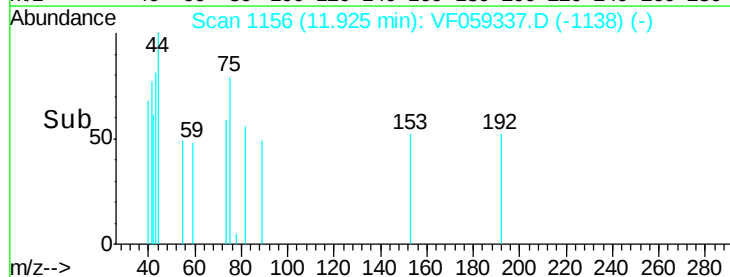
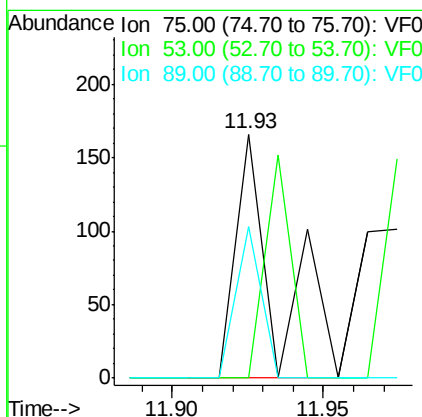
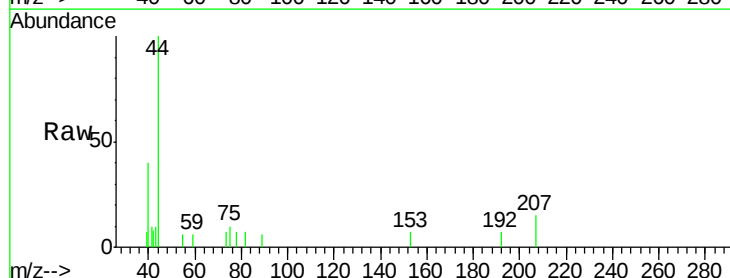
Instrument :
 MSVOA_F
 ClientSampleId :

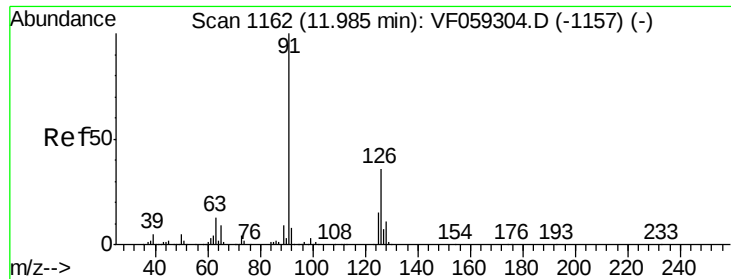
Tot Ion: 91 Resp: 85
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.2 51.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 341.70 ug/l
 RT: 11.93 min Scan# 1156
 Delta R.T. -0.02 min
 Lab File: VF059337.D
 Acq: 27 Jun 2018 14:23

Tgt Ion: 75 Resp: 158
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.8 103.2#
 89 62.0 42.0 63.0





#82

4-Chlorotoluene

Concen: 26.52 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. -0.03 min

Lab File: VF059337.D

Acq: 27 Jun 2018 14:23

Instrument :

MSVOA_F

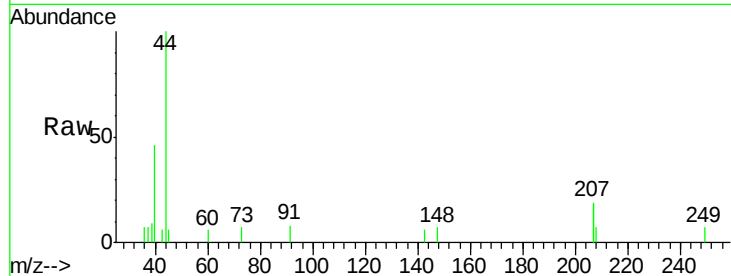
ClientSampled :

Tot Ion: 91 Resp: 85

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

11.95

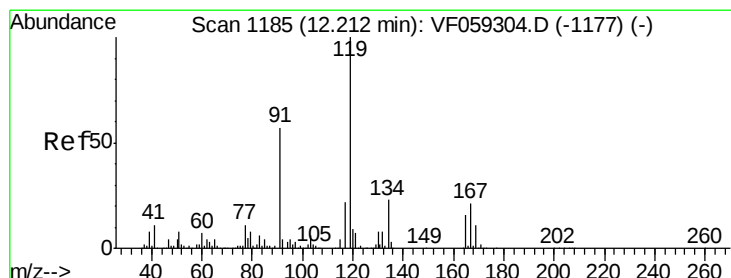
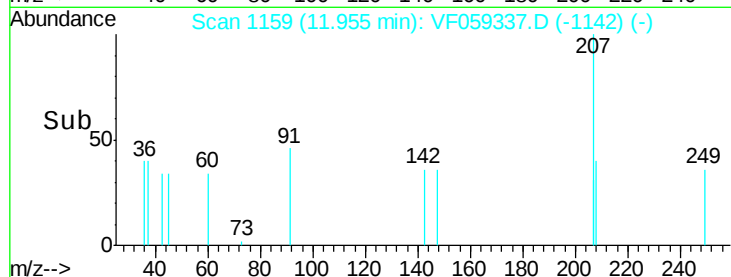
150

100

50

0

Time--> 11.92 11.94 11.96 11.98



#83

tert-Butylbenzene

Concen: 17.91 ug/l

RT: 12.32 min Scan# 1196

Delta R.T. 0.11 min

Lab File: VF059337.D

Acq: 27 Jun 2018 14:23

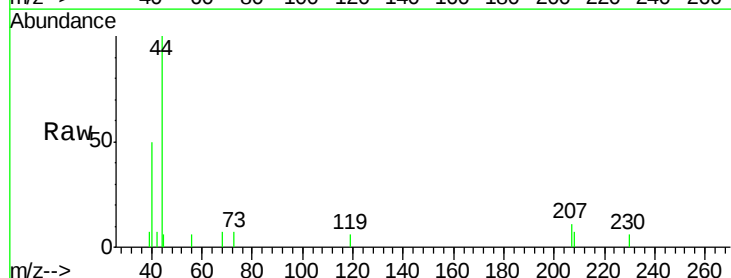
Tgt Ion: 119 Resp: 64

Ion Ratio Lower Upper

119 100

91 0.0 28.4 85.2#

134 0.0 11.7 35.1#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V

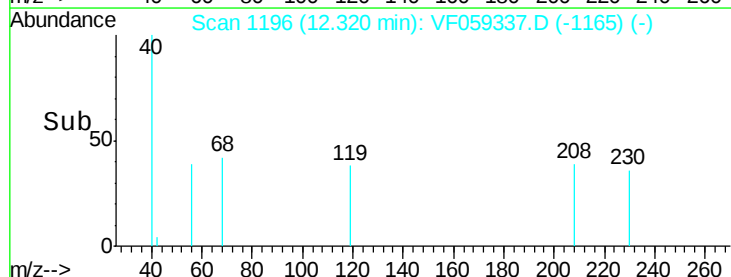
150

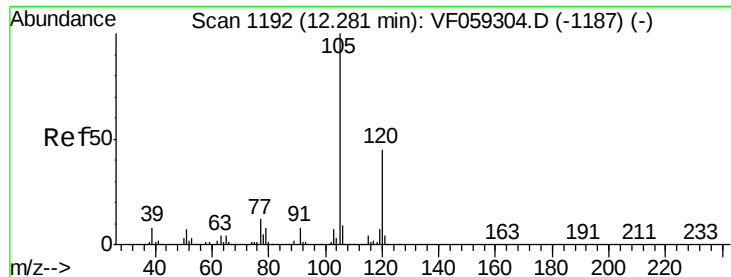
100

50

0

Time--> 12.30 12.32 12.34





#84

1,2,4-Trimethylbenzene

Concen: 21.80 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. -0.01 min

Lab File: VF059337.D

Acq: 27 Jun 2018 14:23

Instrument :

MSVOA_F

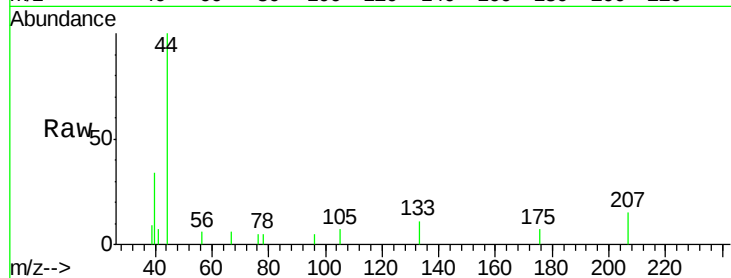
ClientSampleId :

Tot Ion:105 Resp: 82

Ion Ratio Lower Upper

105 100

120 0.0 22.8 68.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

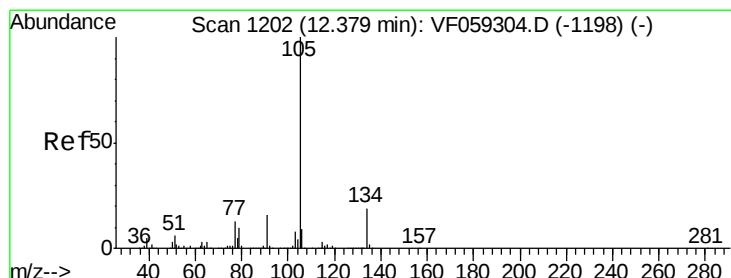
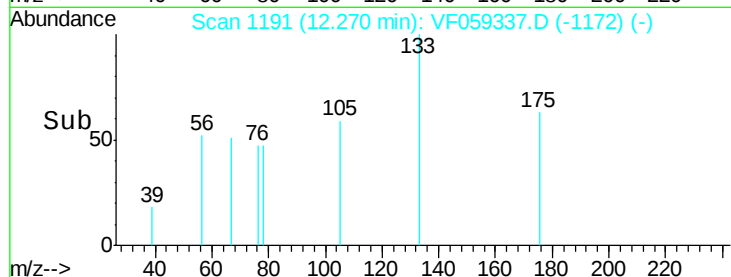
12.27

100

50

0

Time-->



#85

sec-Butylbenzene

Concen: 17.31 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. -0.11 min

Lab File: VF059337.D

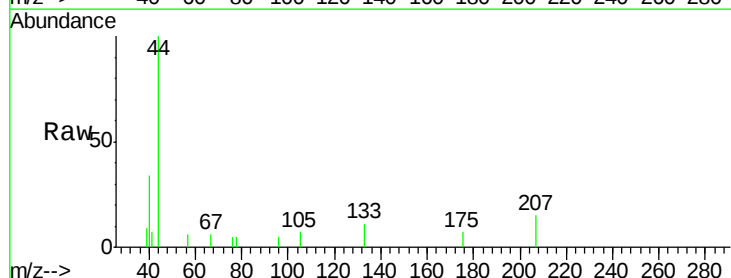
Acq: 27 Jun 2018 14:23

Tgt Ion:105 Resp: 82

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

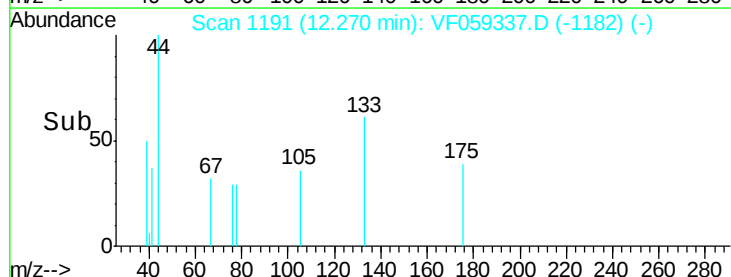
12.27

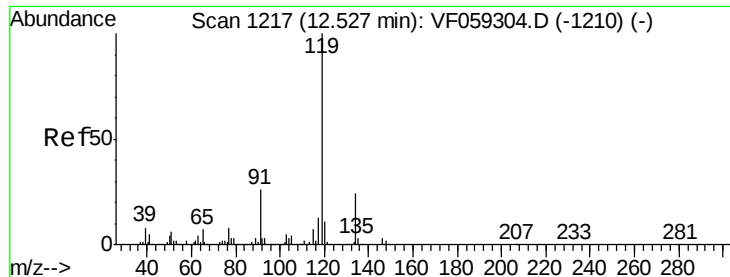
100

50

0

Time-->





#86

p-Isopropyltoluene

Concen: 15.60 ug/l

RT: 12.50 min Scan# 1214

Delta R.T. -0.03 min

Lab File: VF059337.D

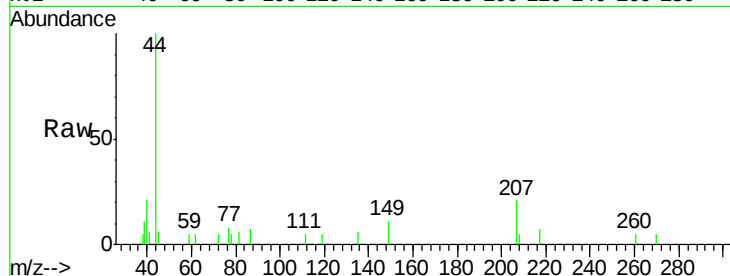
Acq: 27 Jun 2018 14:23

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	119	Resp:	62
Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.2	36.4#
91	0.0	12.9	38.6#

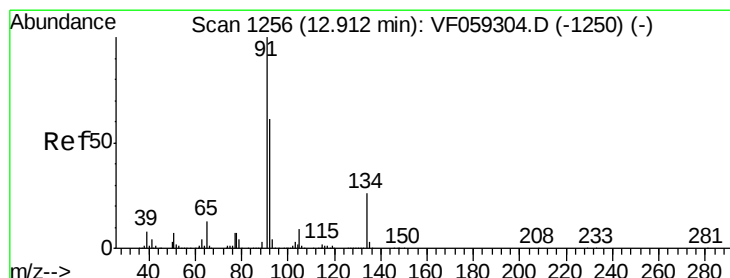
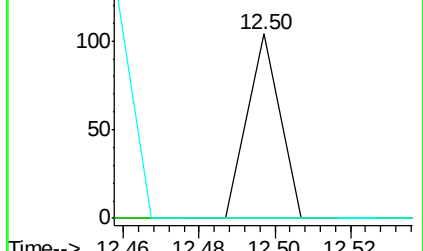
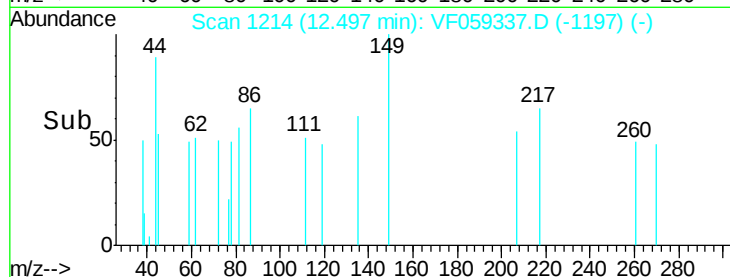


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

Time-->



#89

n-Butylbenzene

Concen: 18.59 ug/l

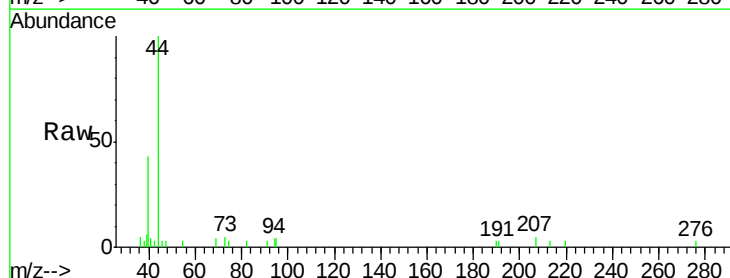
RT: 12.95 min Scan# 1260

Delta R.T. 0.04 min

Lab File: VF059337.D

Acq: 27 Jun 2018 14:23

Tgt Ion:	91	Resp:	75
Ion	Ratio	Lower	Upper
91	100		
92	0.0	30.3	91.0#
134	0.0	12.9	38.7#

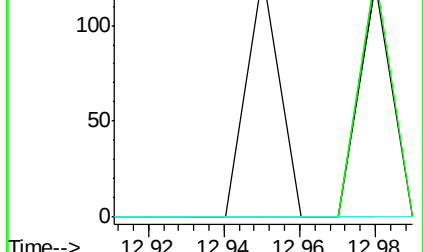
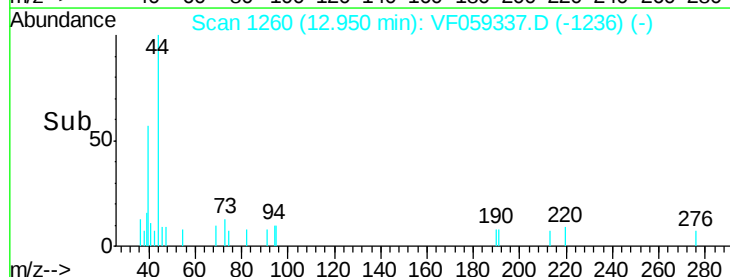


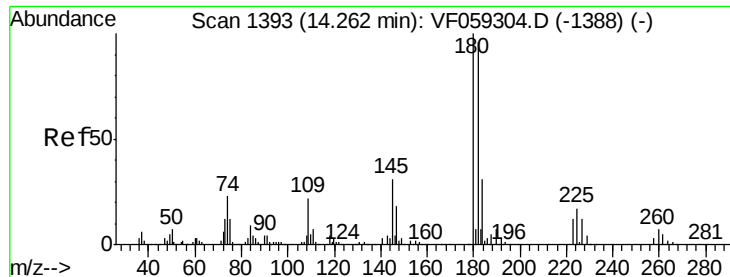
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V

Time-->

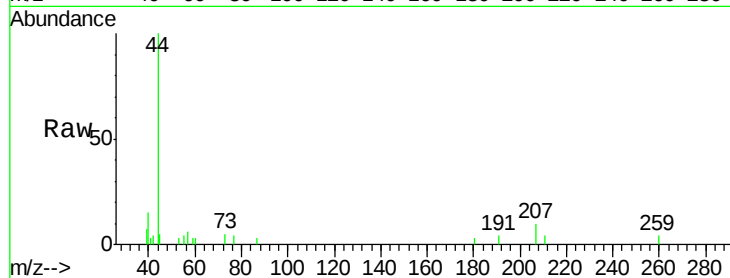




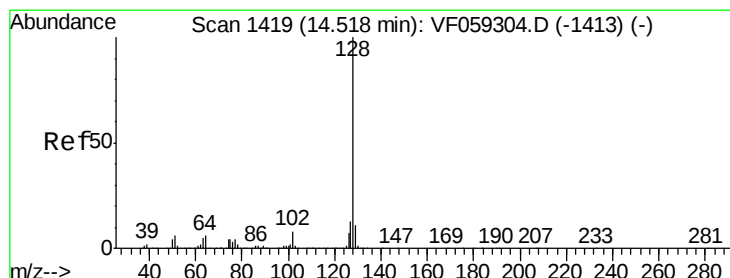
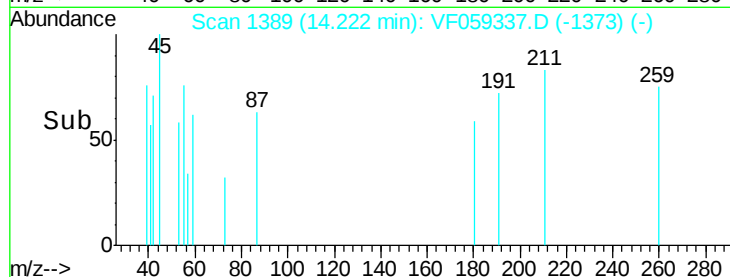
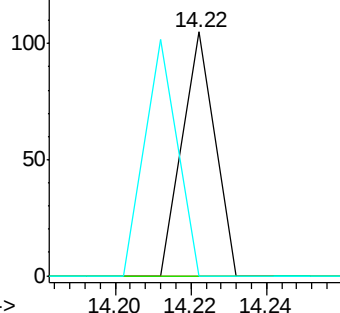
#93
 1,2,4-Trichlorobenzene
 Concen: 40.82 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. -0.04 min
 Lab File: VF059337.D
 Acq: 27 Jun 2018 14:23

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.1	144.3#
145	0.0	15.3	45.8#

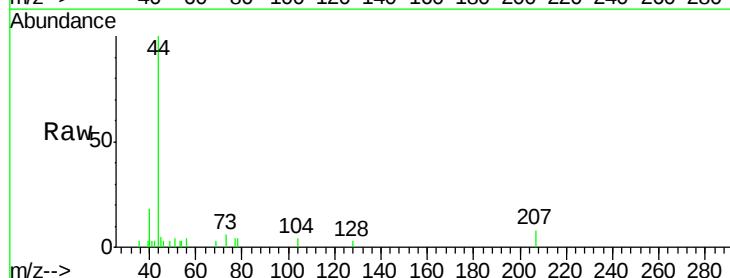


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V



#95
 Naphthalene
 Concen: 19.51 ug/l
 RT: 14.49 min Scan# 1416
 Delta R.T. -0.03 min
 Lab File: VF059337.D
 Acq: 27 Jun 2018 14:23

Tgt Ion	Ratio	Lower	Upper
128	100		
127	100.0	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

