

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060719\
 Data File : VF062899.D
 Acq On : 7 Jun 2019 14:50
 Operator : FY/SY
 Sample : K3160-03RE
 Misc : 6.59g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 08 00:39:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 04:18:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	677985	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	1181567	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.92	117	761106	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	294421	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	166504	35.51	ug/l	-0.02
Spiked Amount			Recovery	=	71.02%	
35) Dibromofluoromethane	4.32	113	311617	34.90	ug/l	-0.02
Spiked Amount			Recovery	=	69.80%	
50) Toluene-d8	7.72	98	585810	25.95	ug/l	-0.02
Spiked Amount			Recovery	=	51.90%	
62) 4-Bromofluorobenzene	11.49	95	182828	22.51	ug/l	-0.02
Spiked Amount			Recovery	=	45.02%	

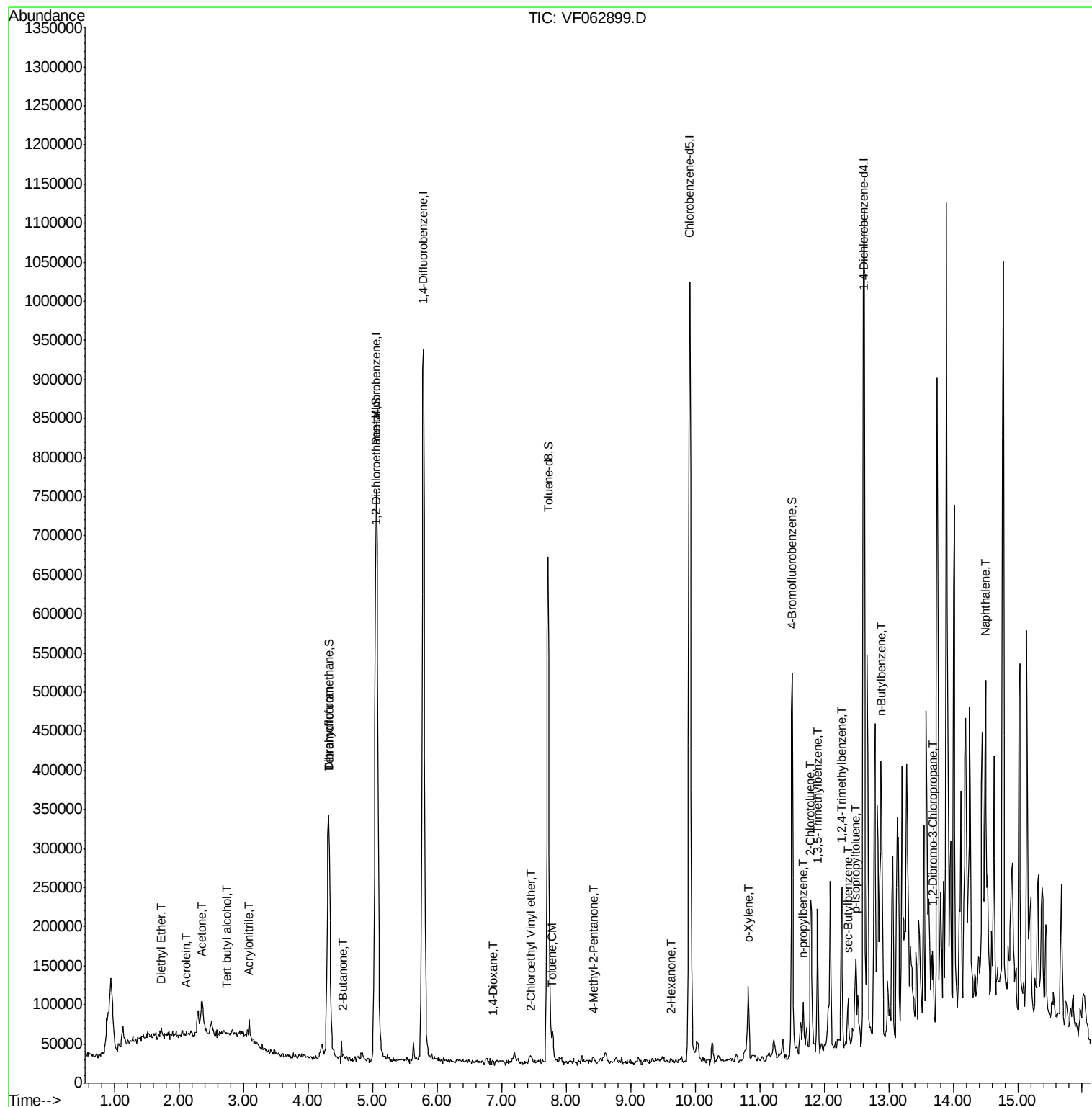
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.92	85	327	Below Cal		100
8) Diethyl Ether	1.71	74	2131	1.098	ug/l	87
11) Tert butyl alcohol	2.72	59	561	1.975	ug/l #	1
13) Acrolein	2.11	56	2186	11.459	ug/l	93
15) Acrylonitrile	3.09	53	1941	1.819	ug/l #	50
16) Acetone	2.36	43	35690	33.260	ug/l	95
25) 2-Butanone	4.54	43	6206	2.484	ug/l #	71
29) Tetrahydrofuran	4.31	42	1664	1.741	ug/l #	79
49) 1,4-Dioxane	6.87	88	258	6.914	ug/l #	1
51) 4-Methyl-2-Pentanone	8.41	43	4512	1.151	ug/l #	86
52) Toluene	7.79	92	19133	1.122	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.46	63	2932	1.535	ug/l	97
59) 2-Hexanone	9.63	43	4344	1.554	ug/l	86
69) o-Xylene	10.82	106	28241	2.890	ug/l	86
78) n-propylbenzene	11.67	91	50710	2.044	ug/l	92
79) 2-Chlorotoluene	11.79	91	19881	1.401	ug/l #	45
80) 1,3,5-Trimethylbenzene	11.90	105	86365	5.141	ug/l	85
84) 1,2,4-Trimethylbenzene	12.27	105	79309	4.979	ug/l	95
85) sec-Butylbenzene	12.37	105	35543	1.620	ug/l	89
86) p-Isopropyltoluene	12.49	119	71393	3.910	ug/l	92
89) n-Butylbenzene	12.89	91	79398	4.323	ug/l #	62
92) 1,2-Dibromo-3-Chloropropan	13.67	75	920	1.925	ug/l #	18
95) Naphthalene	14.50	128	99344	11.038	ug/l #	73

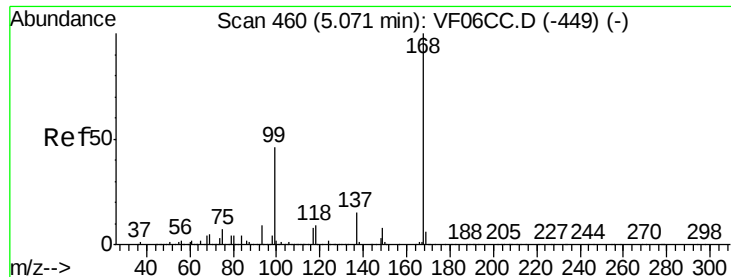
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 31 04:18:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. -0.01 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

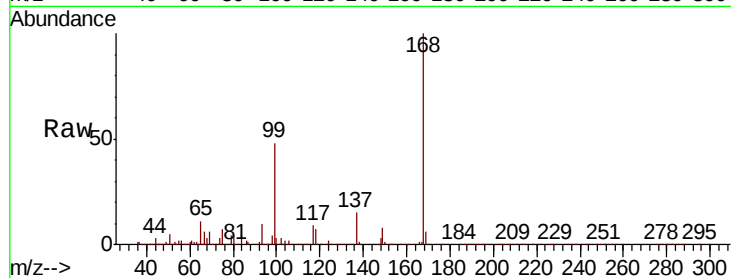
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 677985

Ion Ratio Lower Upper

168 100

99 48.1 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

250000

200000

150000

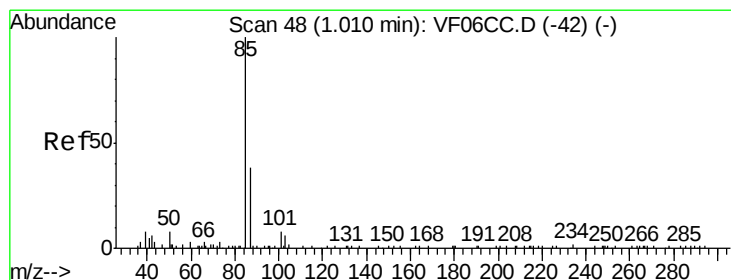
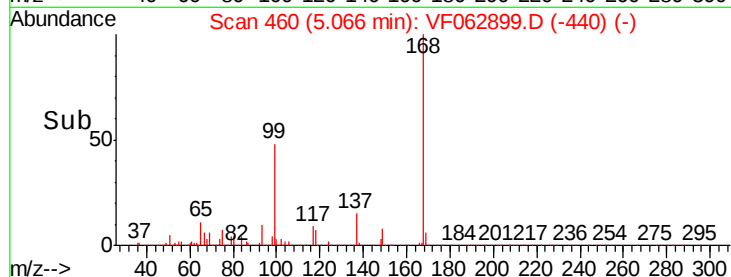
100000

50000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.92 min Scan# 39

Delta R.T. -0.09 min

Lab File: VF062899.D

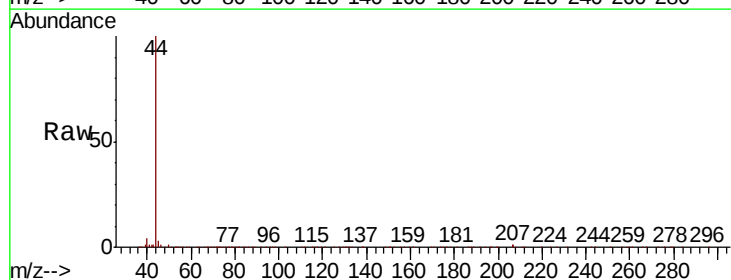
Acq: 7 Jun 2019 14:50

Tgt Ion: 85 Resp: 327

Ion Ratio Lower Upper

85 100

87 35.2 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.92

250

200

150

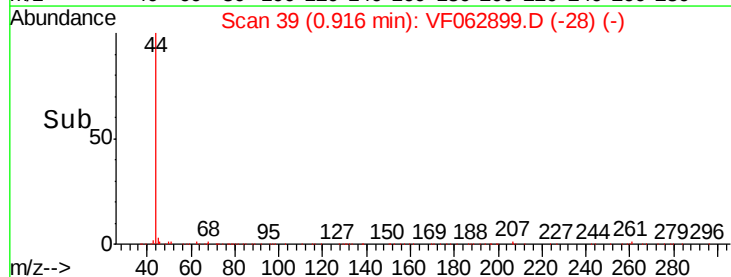
100

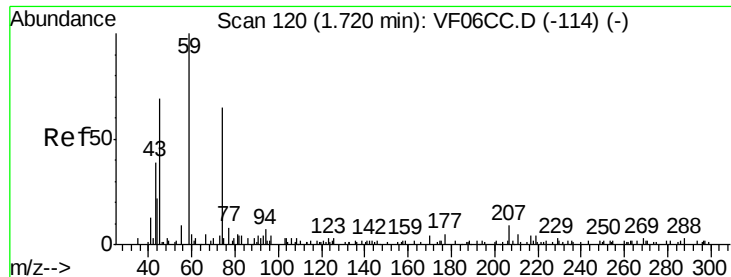
50

0

Time-->

0.90 0.95

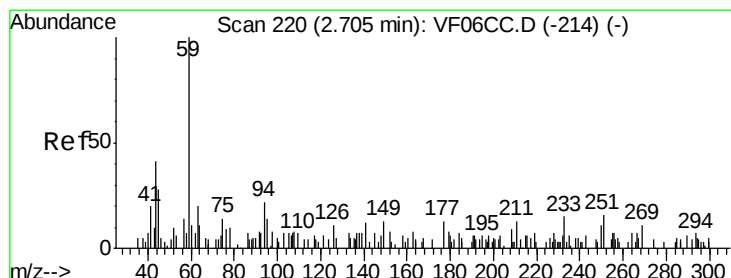
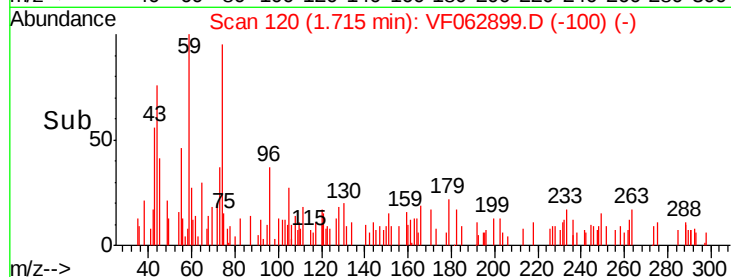
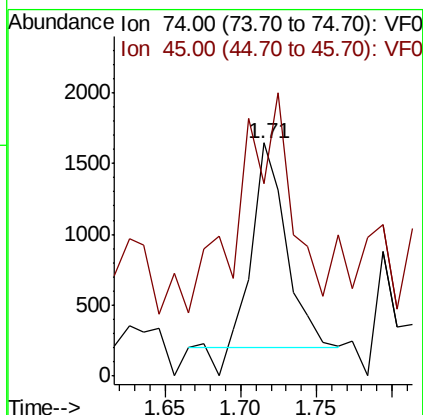
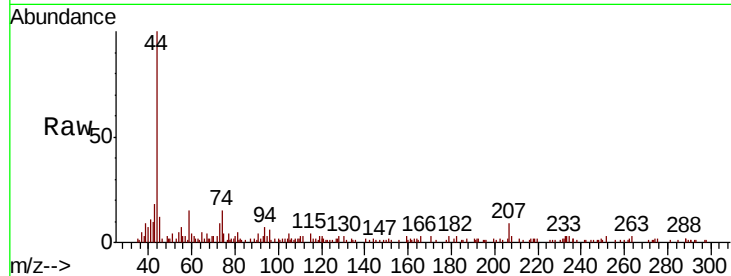




#8
Diethyl Ether
Concen: 1.098 ug/l
RT: 1.71 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF062899.D
Acq: 7 Jun 2019 14:50

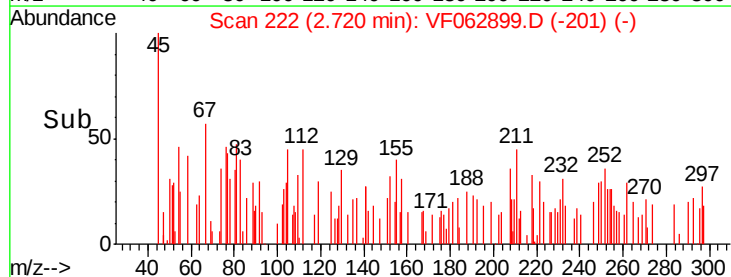
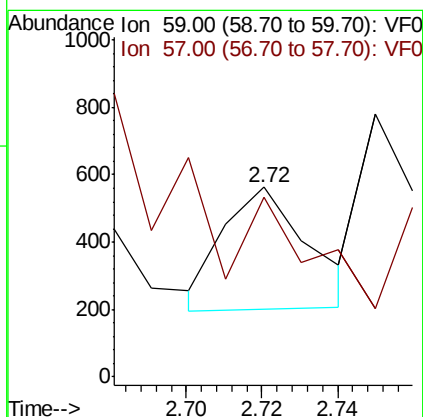
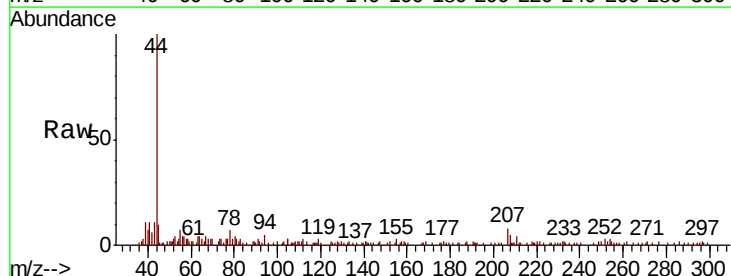
Instrument :
MSVOA_F
ClientSampled :

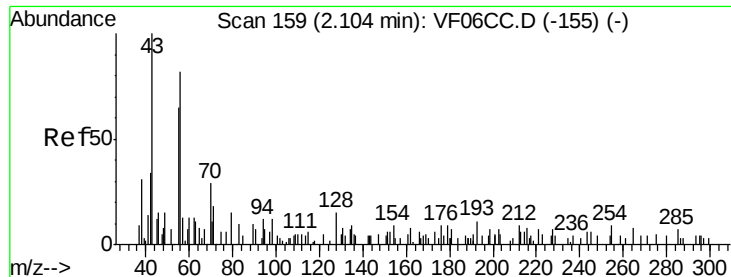
Tot Ion: 74 Resp: 2131
Ion Ratio Lower Upper
74 100
45 82.5 47.5 142.5



#11
Tert butyl alcohol
Concen: 1.975 ug/l
RT: 2.72 min Scan# 222
Delta R.T. 0.00 min
Lab File: VF062899.D
Acq: 7 Jun 2019 14:50

Tgt Ion: 59 Resp: 561
Ion Ratio Lower Upper
59 100
57 95.2 9.2 13.8#





#13

Acrolein

Concen: 11.459 ug/l

RT: 2.11 min Scan# 160

Delta R.T. -0.01 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

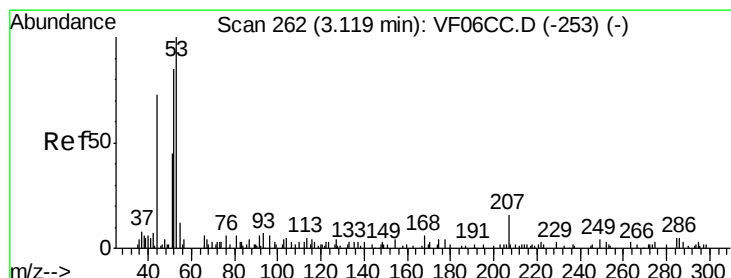
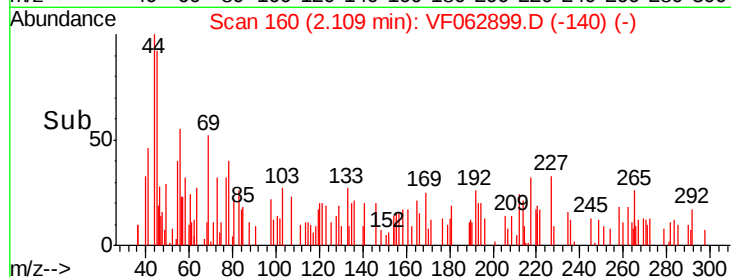
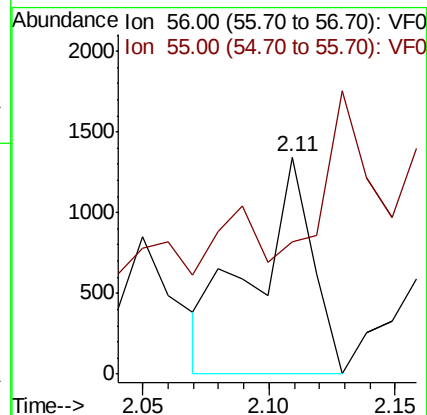
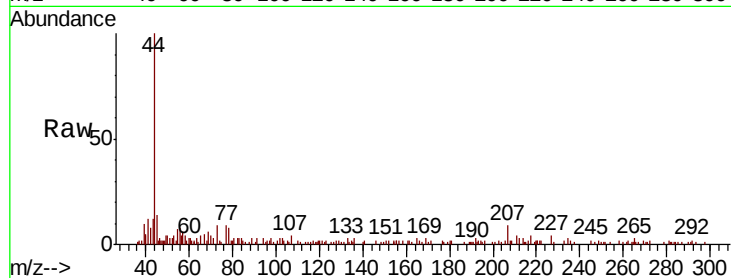
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 2186

Ion Ratio Lower Upper

56 100

55 60.7 52.9 79.3



#15

Acrylonitrile

Concen: 1.819 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.03 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

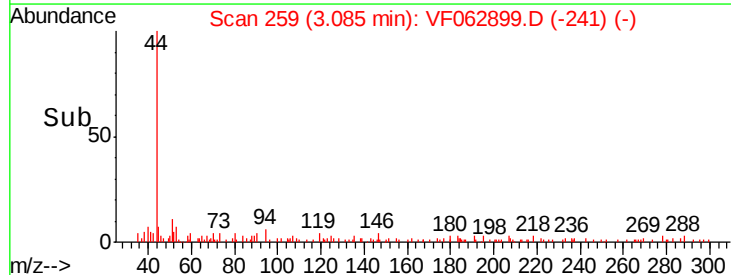
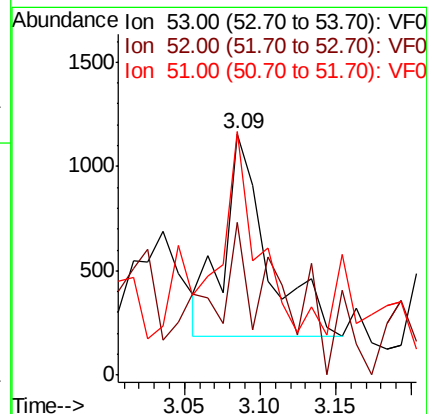
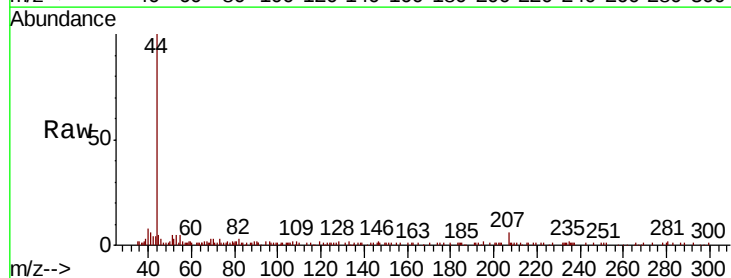
Tgt Ion: 53 Resp: 1941

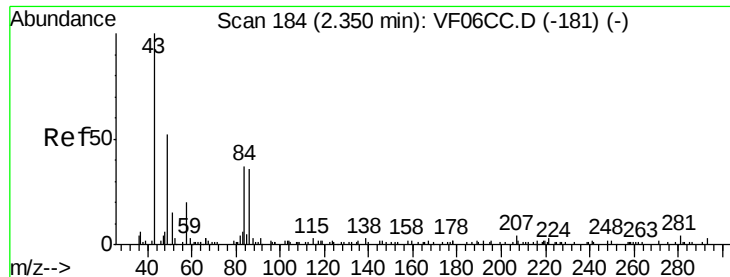
Ion Ratio Lower Upper

53 100

52 63.4 68.1 102.1#

51 100.8 27.7 41.5#

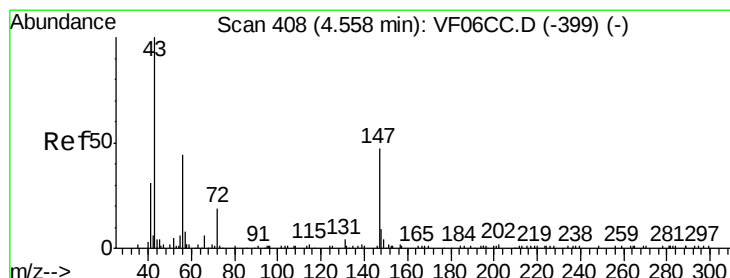
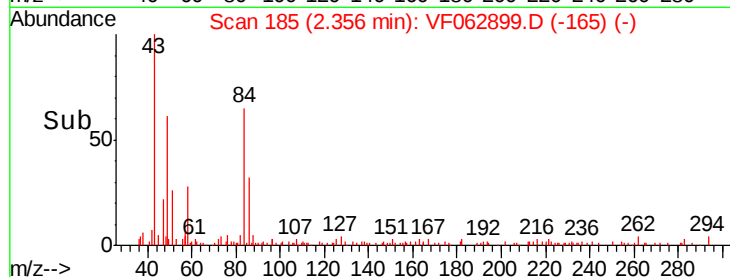
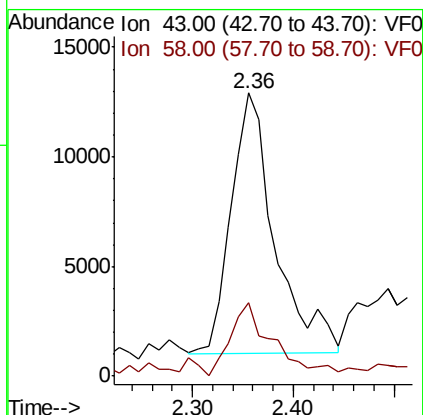
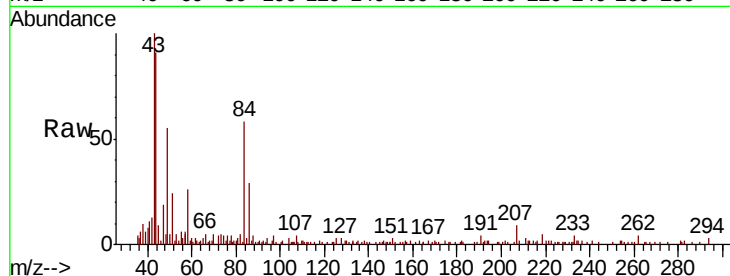




#16
Acetone
Concen: 33.260 ug/l
RT: 2.36 min Scan# 185
Delta R.T. -0.01 min
Lab File: VF062899.D
Acq: 7 Jun 2019 14:50

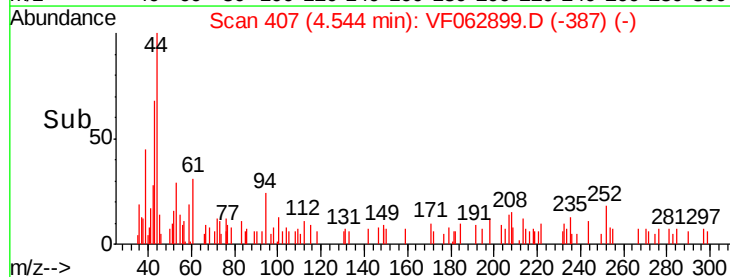
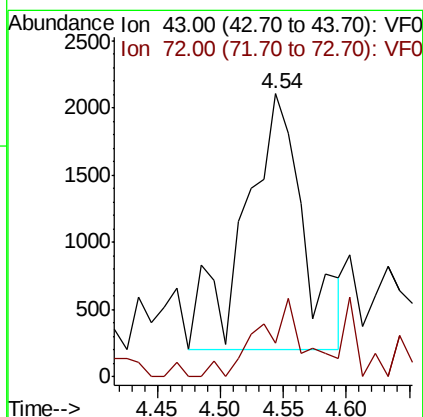
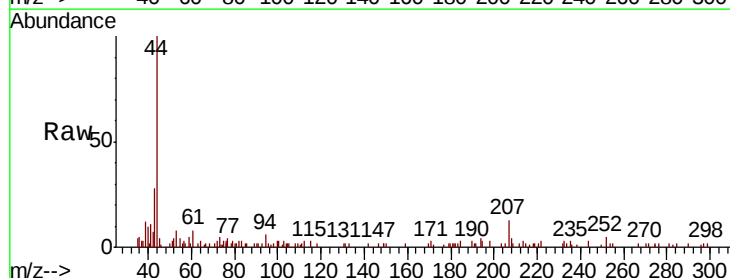
Instrument :
MSVOA_F
ClientSampled :

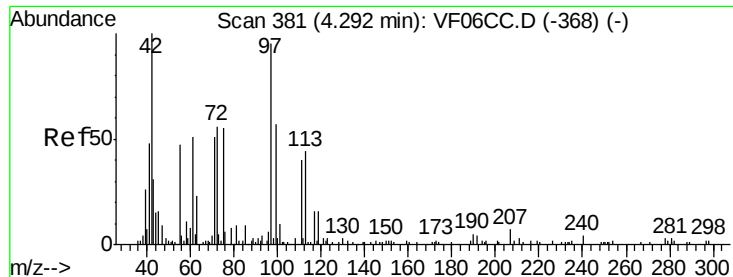
Tot Ion: 43 Resp: 35690
Ion Ratio Lower Upper
43 100
58 26.0 19.0 28.4



#25
2-Butanone
Concen: 2.484 ug/l
RT: 4.54 min Scan# 407
Delta R.T. -0.01 min
Lab File: VF062899.D
Acq: 7 Jun 2019 14:50

Tgt Ion: 43 Resp: 6206
Ion Ratio Lower Upper
43 100
72 11.7 21.4 32.0#





#29

Tetrahydrofuran

Concen: 1.741 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

Instrument :
MSVOA_F
ClientSampled :

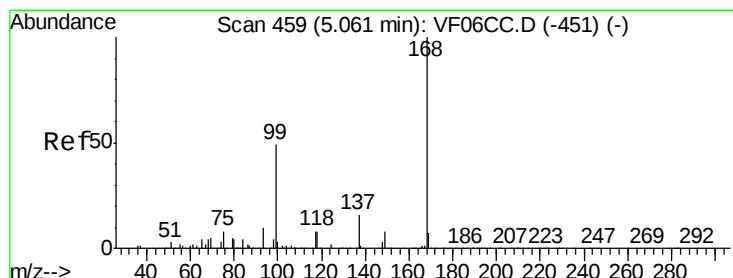
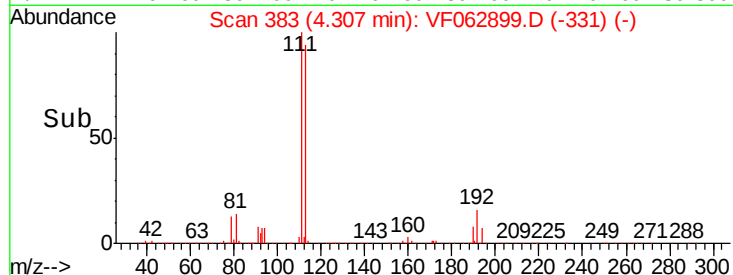
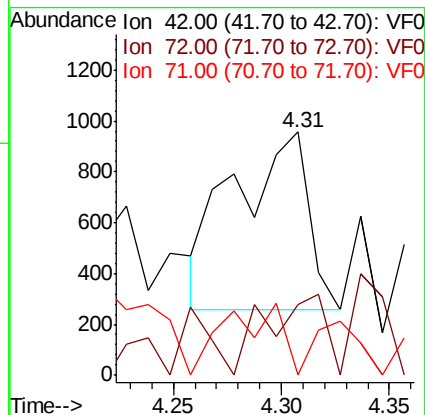
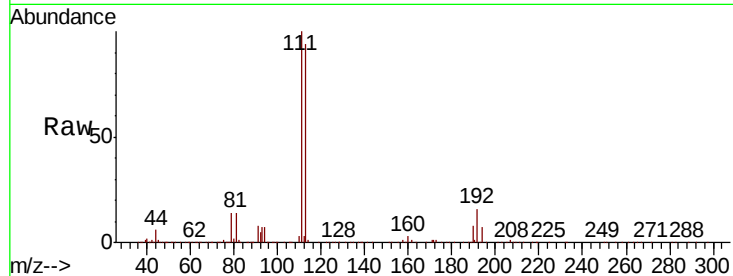
Tot Ion: 42 Resp: 1664

Ion Ratio Lower Upper

42 100

72 36.3 39.0 58.6#

71 30.2 36.9 55.3#



#33

1,2-Dichloroethane-d4

Concen: 35.515 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF062899.D

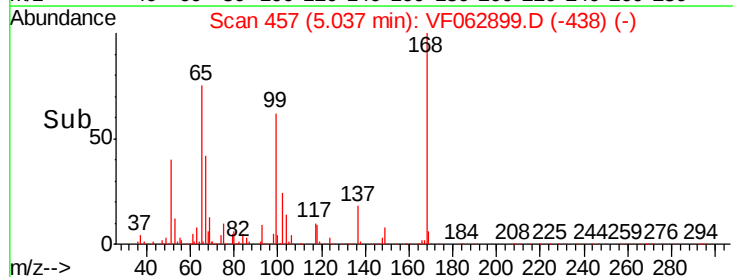
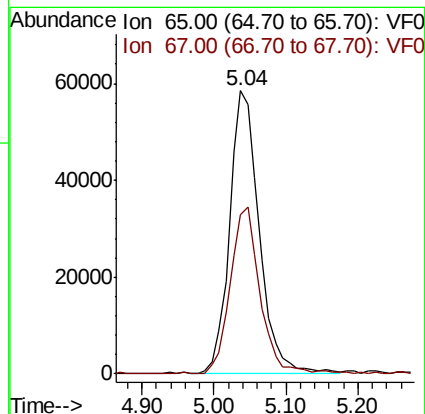
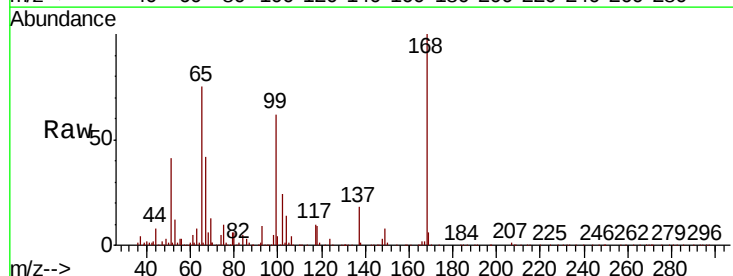
Acq: 7 Jun 2019 14:50

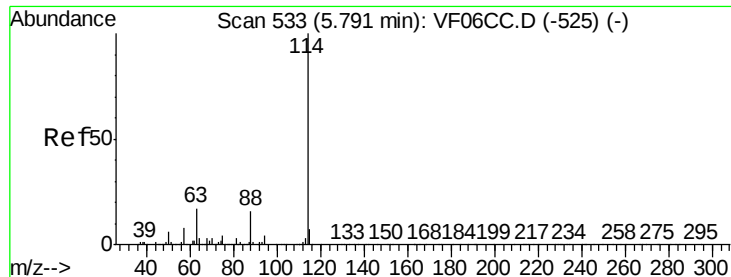
Tgt Ion: 65 Resp: 166504

Ion Ratio Lower Upper

65 100

67 56.2 0.0 121.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. -0.02 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

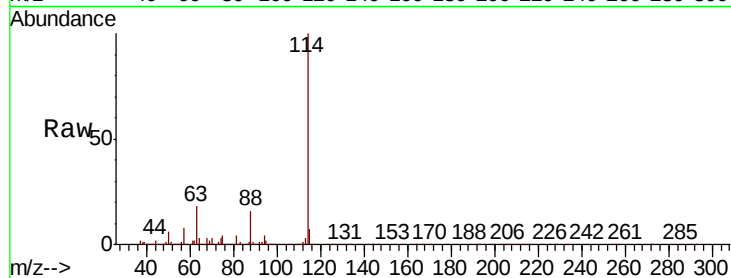
Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:114 Resp: 1181567

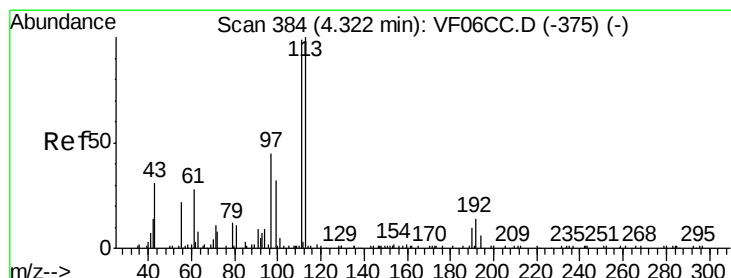
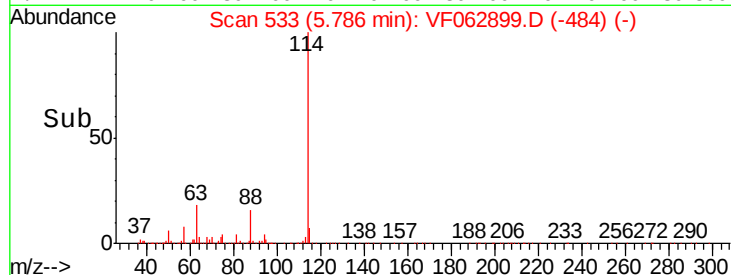
Ion	Ratio	Lower	Upper
114	100		
63	18.1	0.0	34.2
88	16.3	0.0	31.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 34.901 ug/l

RT: 4.32 min Scan# 384

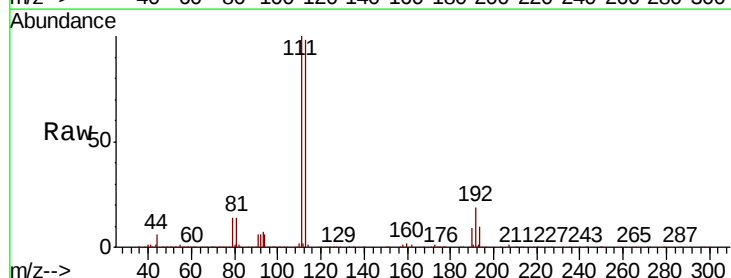
Delta R.T. -0.02 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

Tgt Ion:113 Resp: 311617

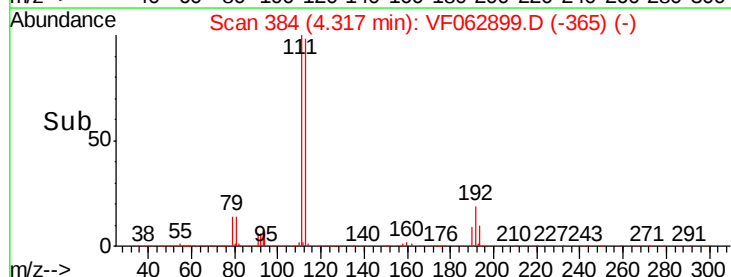
Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.9	122.9
192	20.4	15.1	22.7

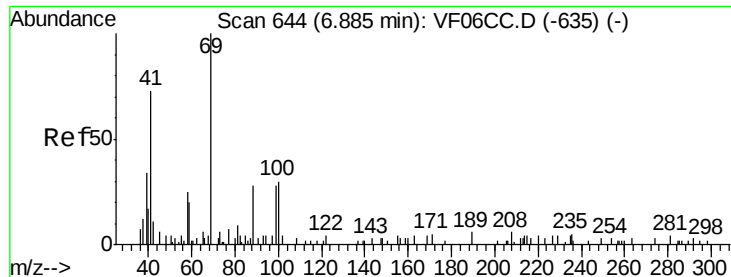


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 6.914 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.02 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

Instrument :
MSVOA_F
ClientSampleId :

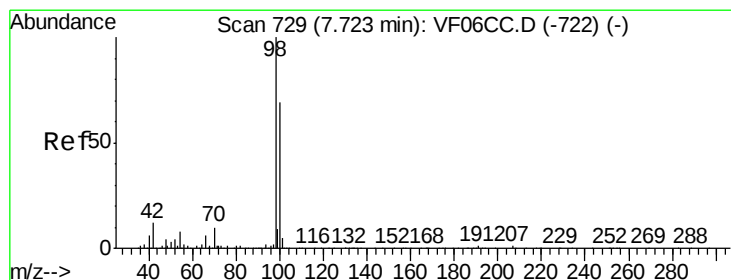
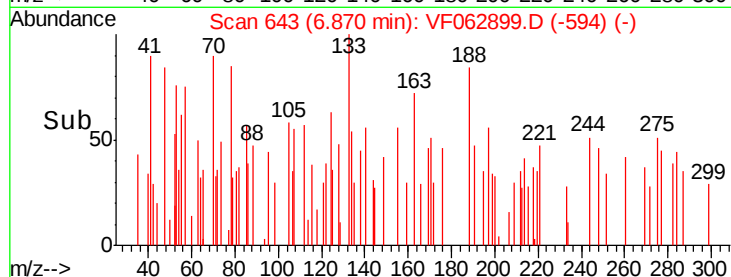
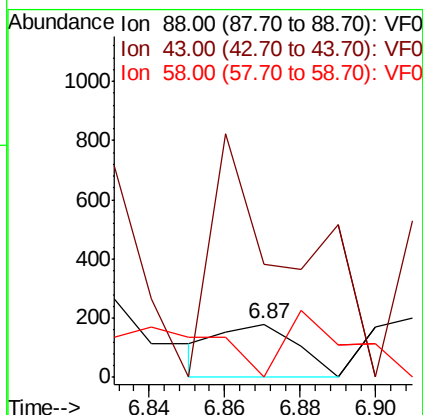
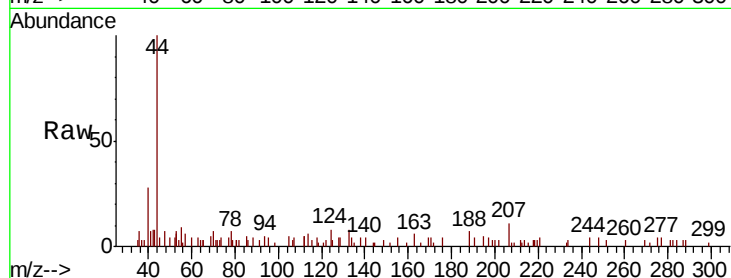
Tot Ion: 88 Resp: 258

Ion Ratio Lower Upper

88 100

43 212.8 34.8 52.2#

58 0.0 59.9 89.9#



#50

Toluene-d8

Concen: 25.946 ug/l

RT: 7.72 min Scan# 729

Delta R.T. -0.02 min

Lab File: VF062899.D

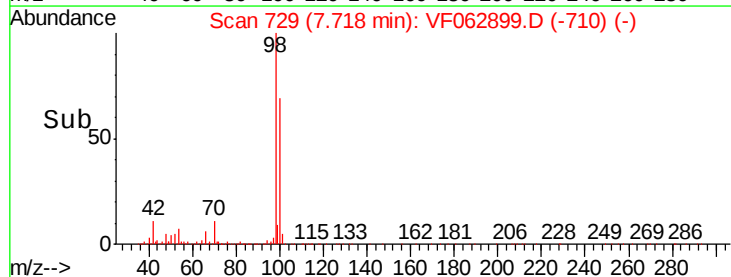
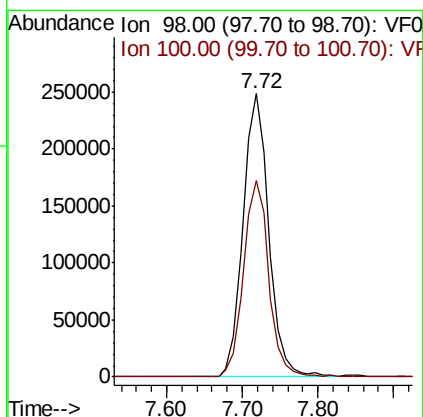
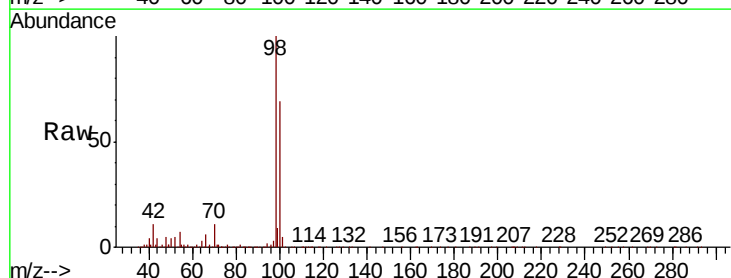
Acq: 7 Jun 2019 14:50

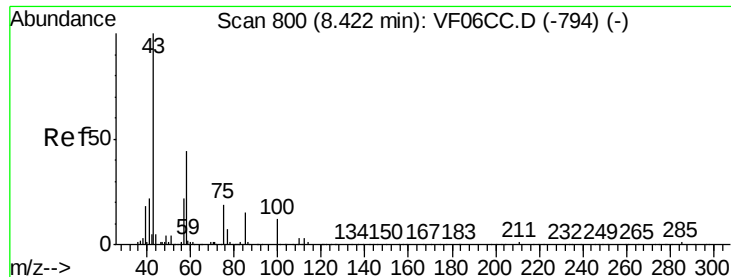
Tgt Ion: 98 Resp: 585810

Ion Ratio Lower Upper

98 100

100 69.2 59.8 89.8





#51

4-Methyl-2-Pentanone

Concen: 1.151 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.02 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

Instrument :

MSVOA_F

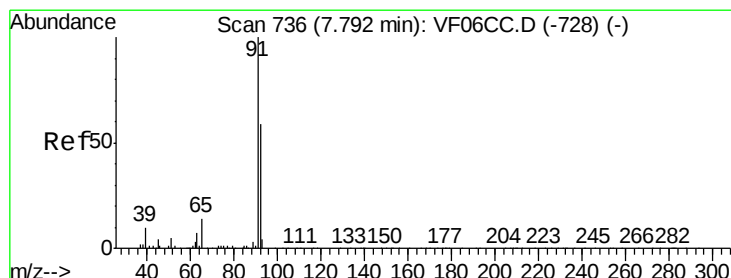
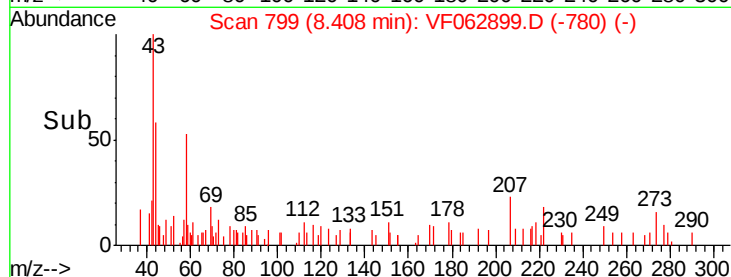
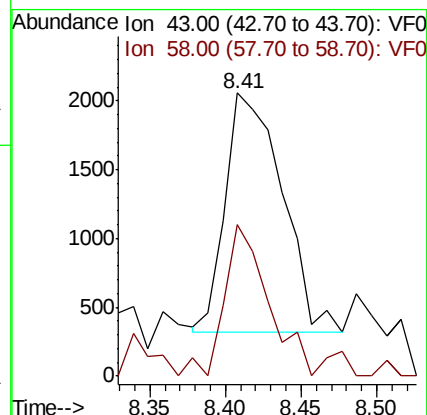
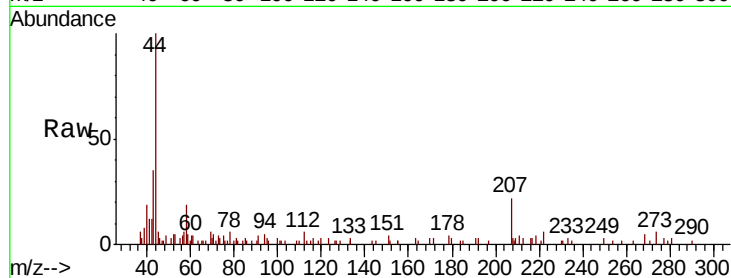
ClientSampleId :

Tot Ion: 43 Resp: 4512

Ion Ratio Lower Upper

43 100

58 53.5 35.5 53.3#



#52

Toluene

Concen: 1.122 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.02 min

Lab File: VF062899.D

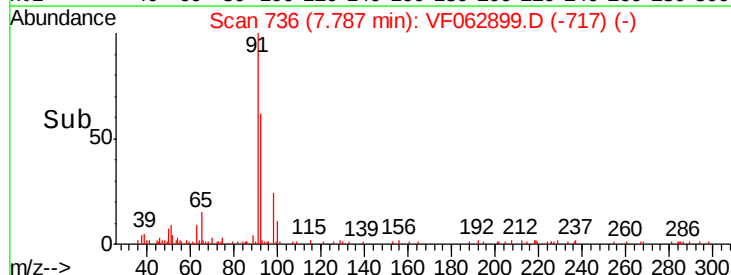
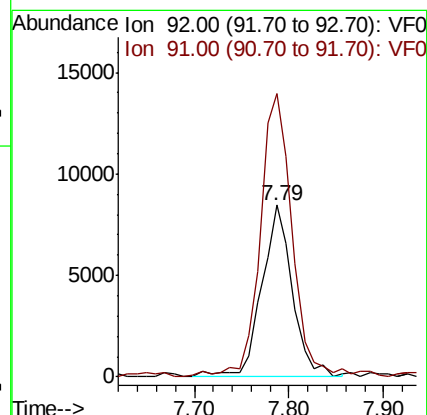
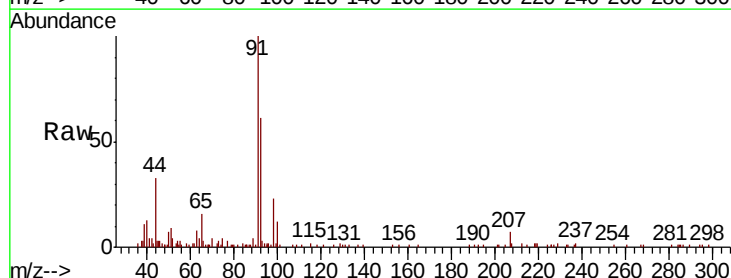
Acq: 7 Jun 2019 14:50

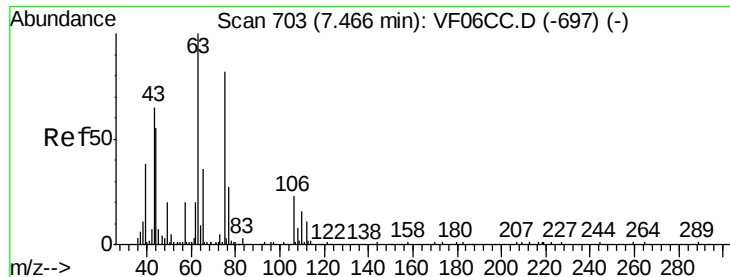
Tgt Ion: 92 Resp: 19133

Ion Ratio Lower Upper

92 100

91 164.7 123.2 184.8





#58

2-Chloroethyl Vinyl ether

Concen: 1.535 ug/l

RT: 7.46 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

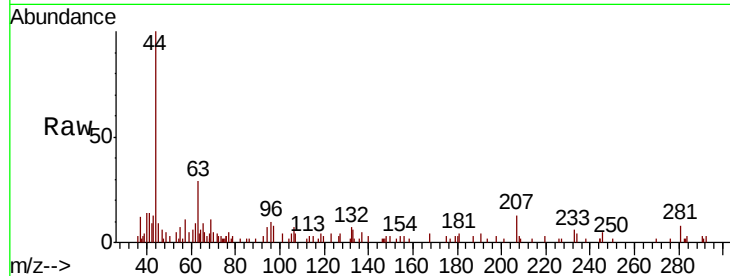
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 63 Resp: 2932

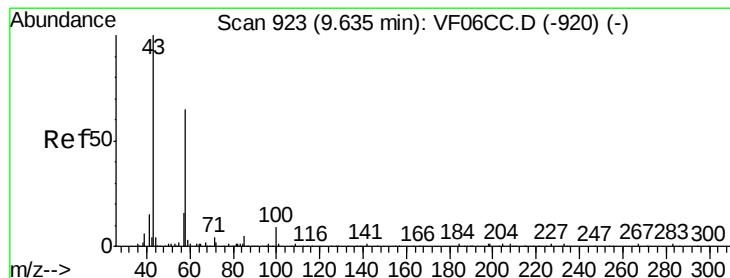
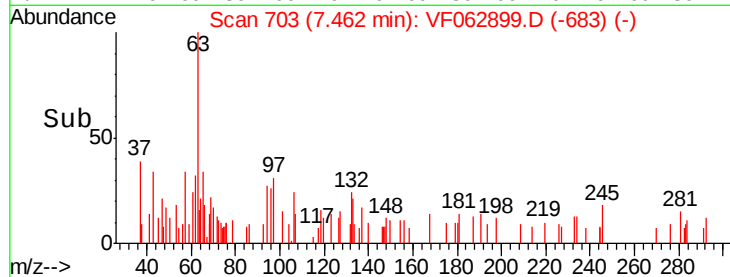
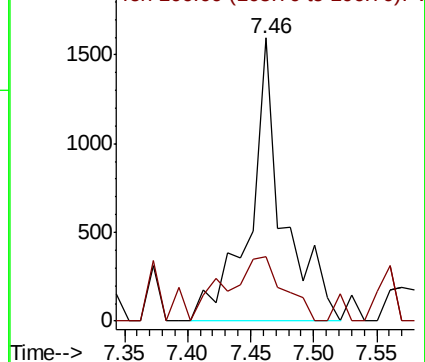
Ion Ratio Lower Upper

63 100

106 22.7 19.5 29.3



Abundance Ion 63.00 (62.70 to 63.70): VF0
Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 1.554 ug/l

RT: 9.63 min Scan# 923

Delta R.T. -0.01 min

Lab File: VF062899.D

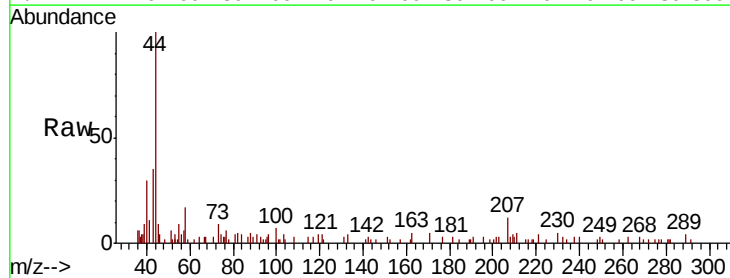
Acq: 7 Jun 2019 14:50

Tgt Ion: 43 Resp: 4344

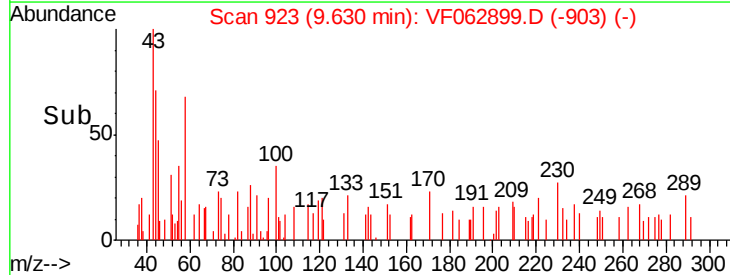
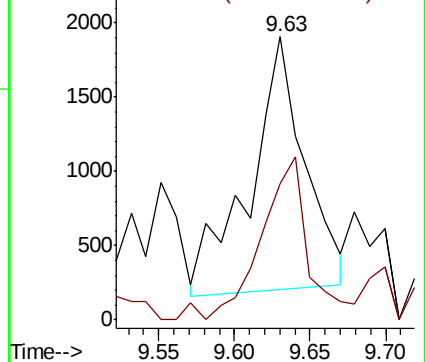
Ion Ratio Lower Upper

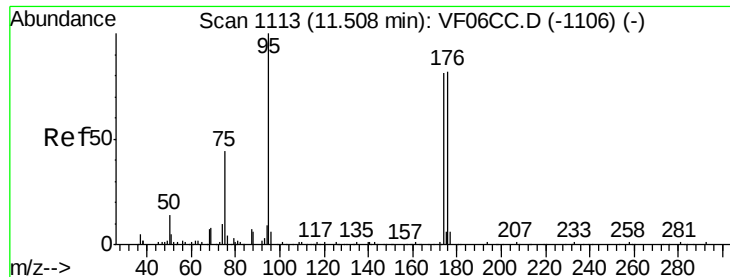
43 100

58 48.2 29.3 87.9



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 22.511 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

Instrument :

MSVOA_F

ClientSampled :

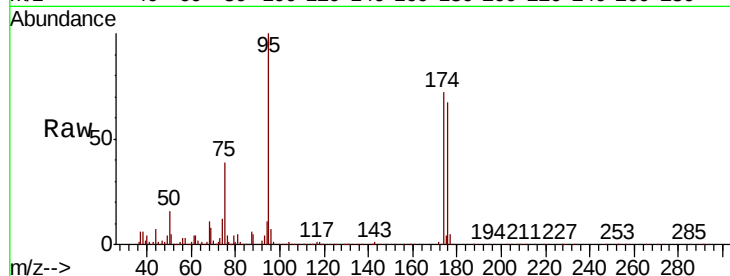
Tot Ion: 95 Resp: 182828

Ion Ratio Lower Upper

95 100

174 72.2 0.0 170.6

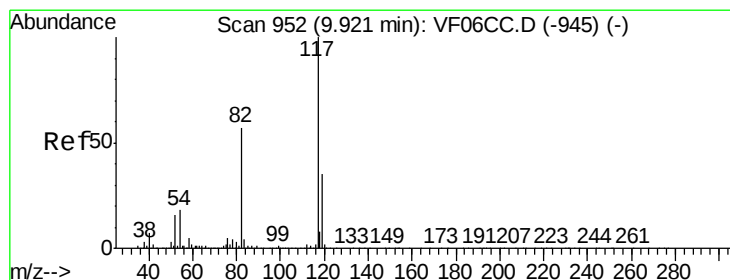
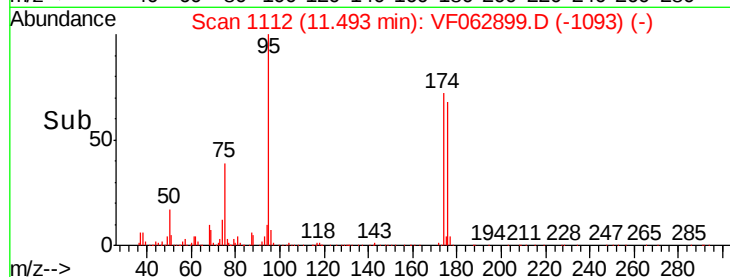
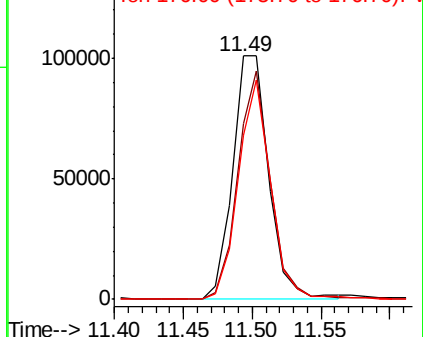
176 67.4 0.0 170.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. -0.02 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

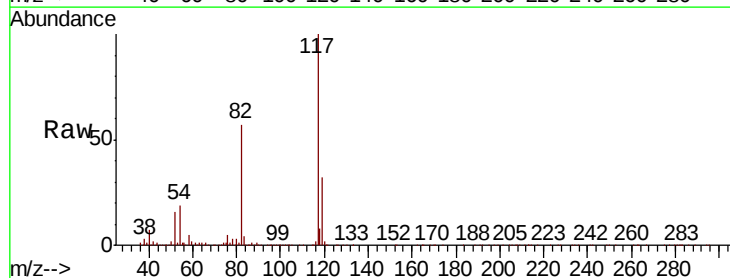
Tgt Ion: 117 Resp: 761106

Ion Ratio Lower Upper

117 100

82 57.4 42.4 63.6

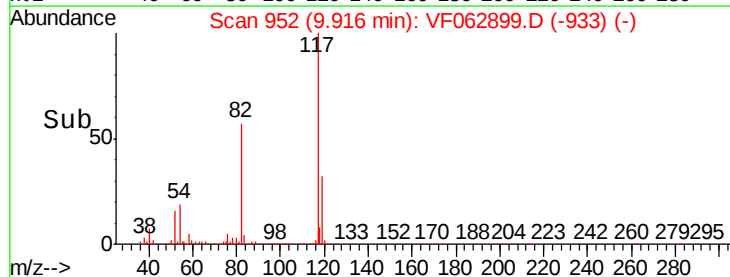
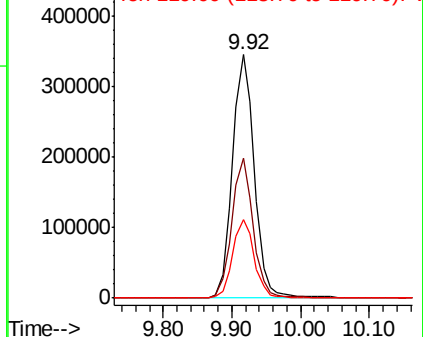
119 32.3 27.1 40.7

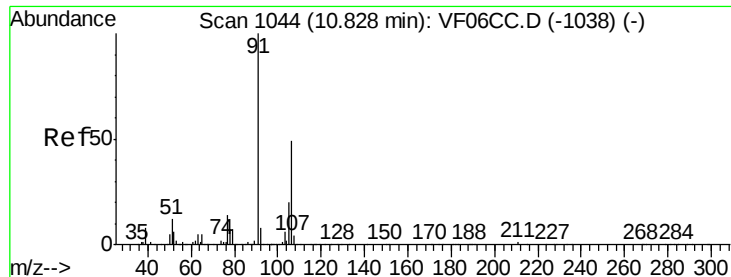


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

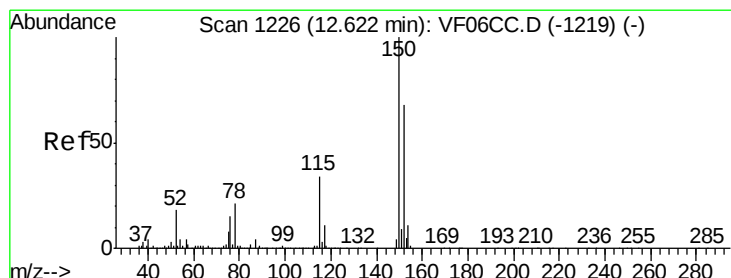
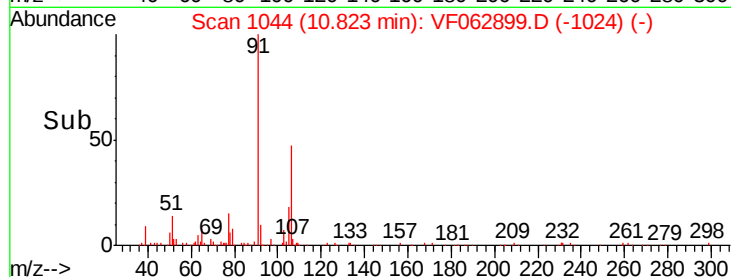
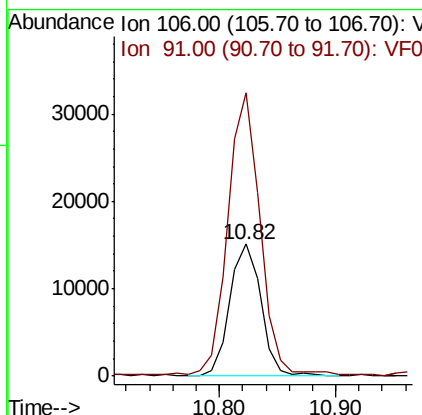
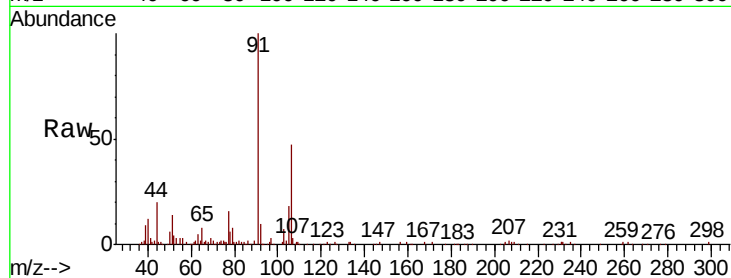




#69
o-Xylene
Concen: 2.890 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF062899.D
Acq: 7 Jun 2019 14:50

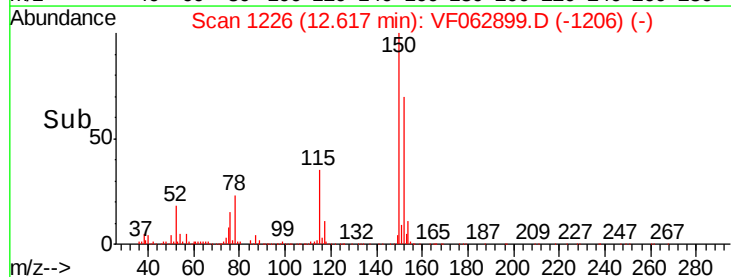
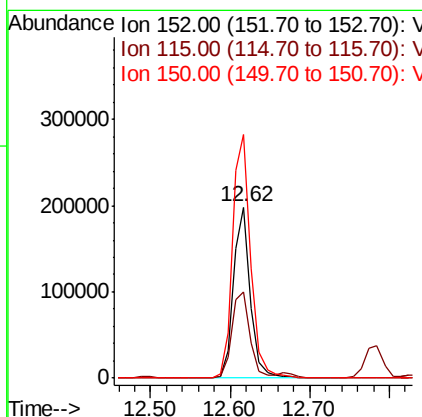
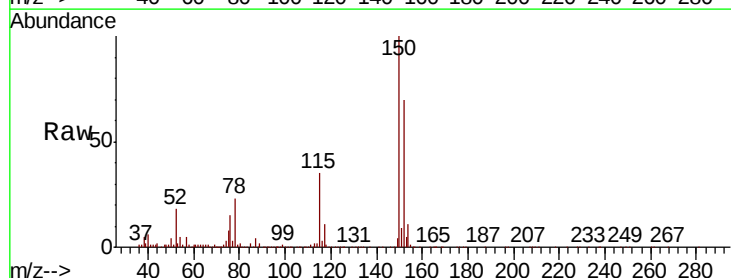
Instrument :
MSVOA_F
ClientSampleId :

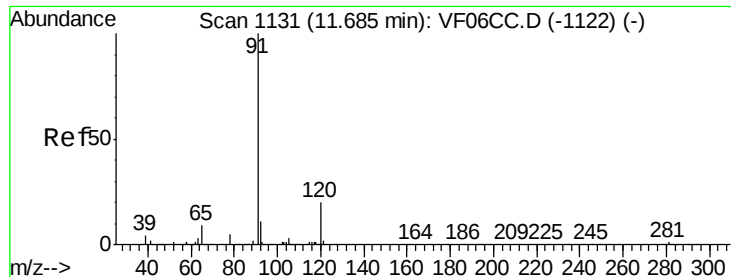
Tot Ion:106 Resp: 28241
Ion Ratio Lower Upper
106 100
91 214.2 96.6 289.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF062899.D
Acq: 7 Jun 2019 14:50

Tgt Ion:152 Resp: 294421
Ion Ratio Lower Upper
152 100
115 50.5 24.6 74.0
150 142.2 0.0 290.6





#78

n-propylbenzene

Concen: 2.044 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. -0.02 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

Instrument :

MSVOA_F

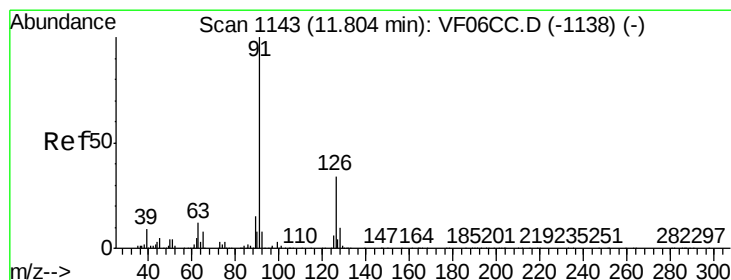
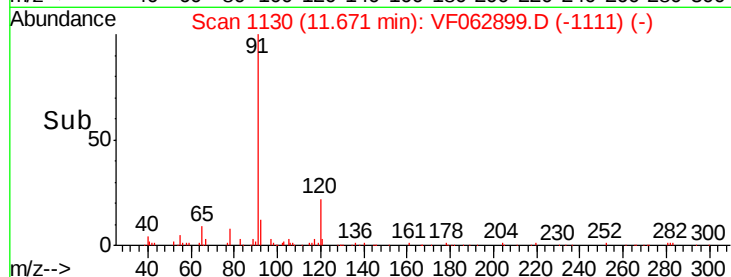
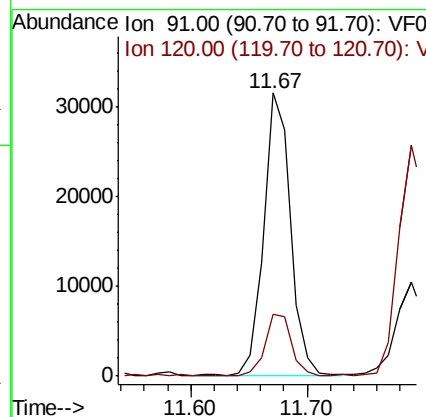
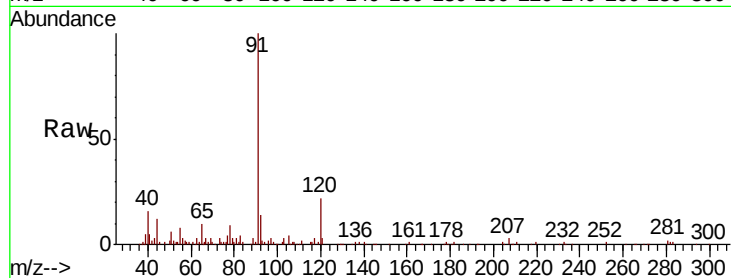
ClientSampleId :

Tot Ion: 91 Resp: 50710

Ion Ratio Lower Upper

91 100

120 21.8 12.8 38.4



#79

2-Chlorotoluene

Concen: 1.401 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VF062899.D

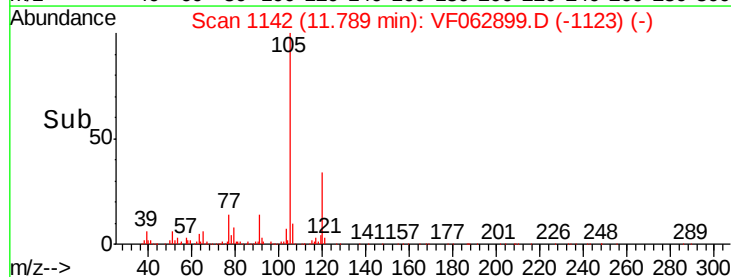
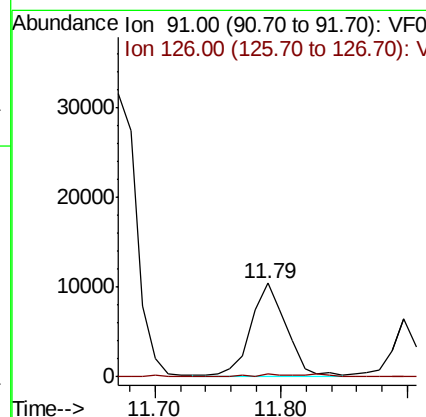
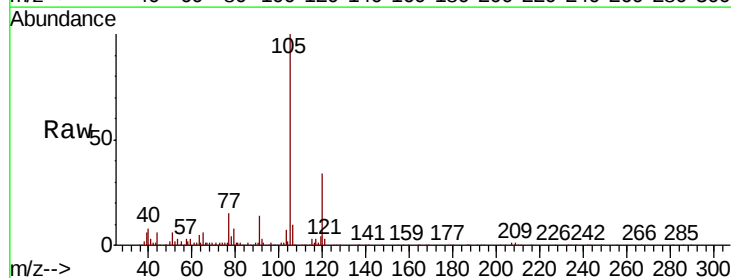
Acq: 7 Jun 2019 14:50

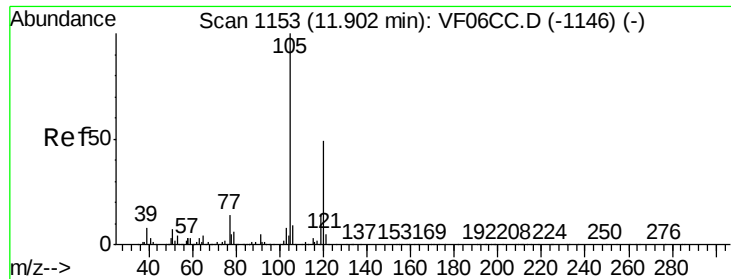
Tgt Ion: 91 Resp: 19881

Ion Ratio Lower Upper

91 100

126 3.4 17.8 53.3#

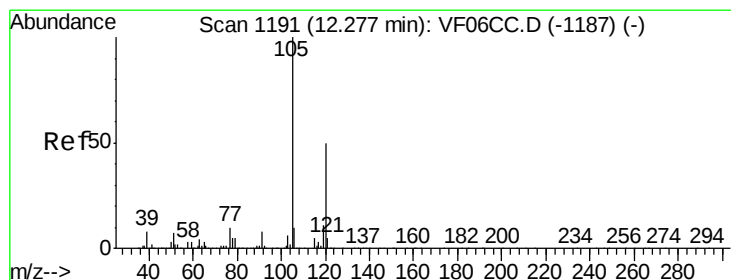
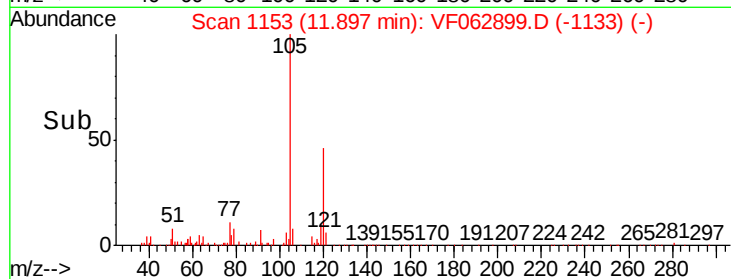
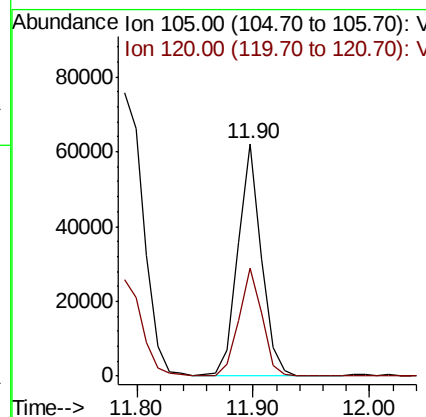
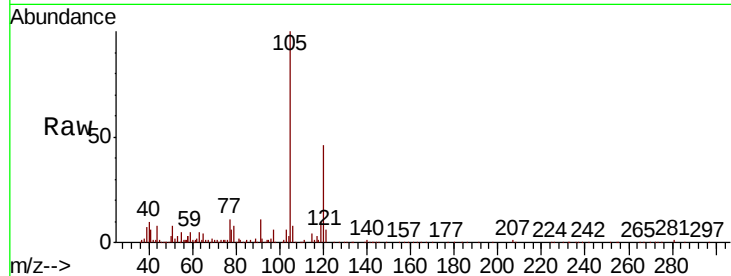




#80
 1,3,5-Trimethylbenzene
 Concen: 5.141 ug/l
 RT: 11.90 min Scan# 1153
 Delta R.T. -0.01 min
 Lab File: VF062899.D
 Acq: 7 Jun 2019 14:50

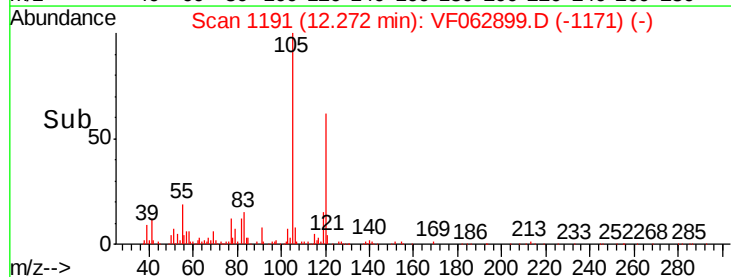
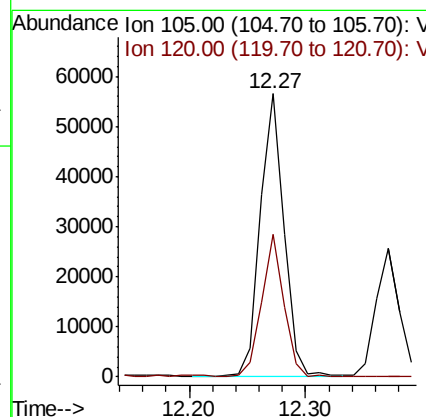
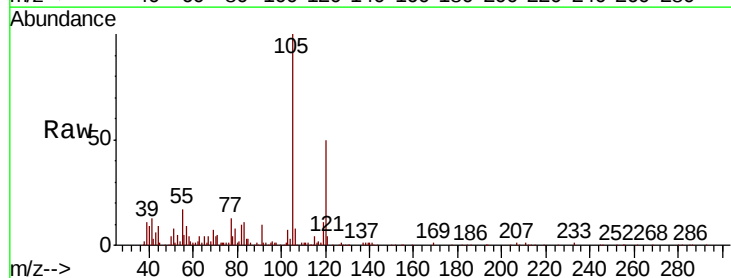
Instrument :
 MSVOA_F
 ClientSampleId :

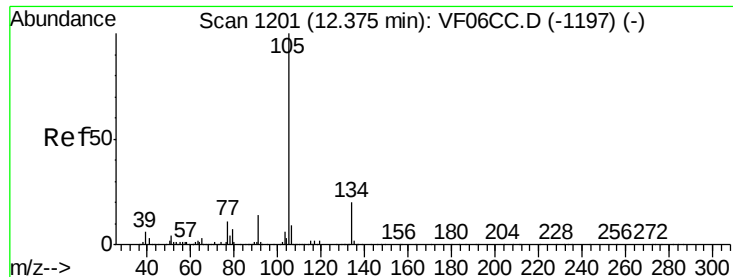
Tot Ion:105 Resp: 86365
 Ion Ratio Lower Upper
 105 100
 120 46.5 28.7 86.1



#84
 1,2,4-Trimethylbenzene
 Concen: 4.979 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. -0.01 min
 Lab File: VF062899.D
 Acq: 7 Jun 2019 14:50

Tgt Ion:105 Resp: 79309
 Ion Ratio Lower Upper
 105 100
 120 50.4 27.1 81.3





#85

sec-Butylbenzene

Concen: 1.620 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

Instrument :

MSVOA_F

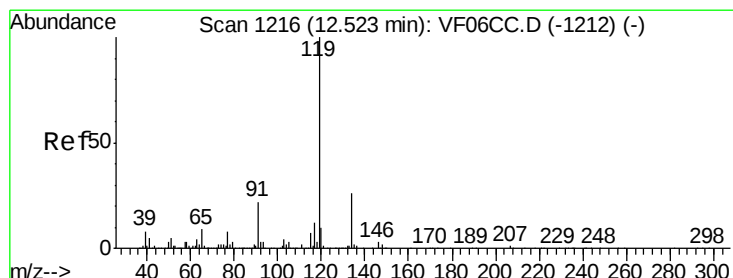
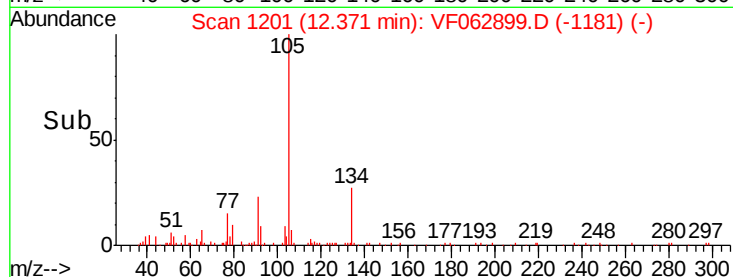
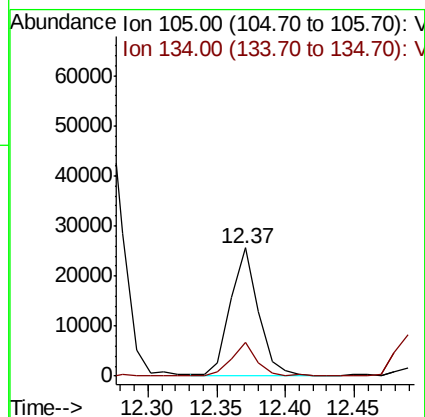
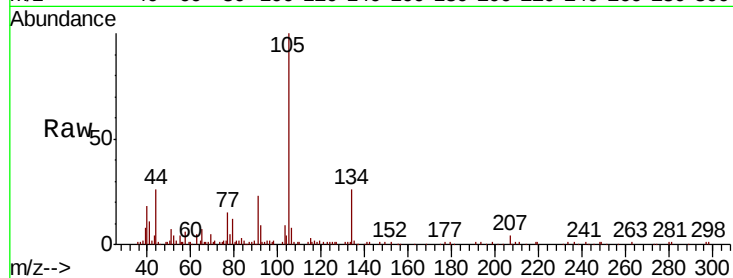
ClientSampleId :

Tot Ion:105 Resp: 35543

Ion Ratio Lower Upper

105 100

134 26.3 10.5 31.6



#86

p-Isopropyltoluene

Concen: 3.910 ug/l

RT: 12.49 min Scan# 1213

Delta R.T. -0.05 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

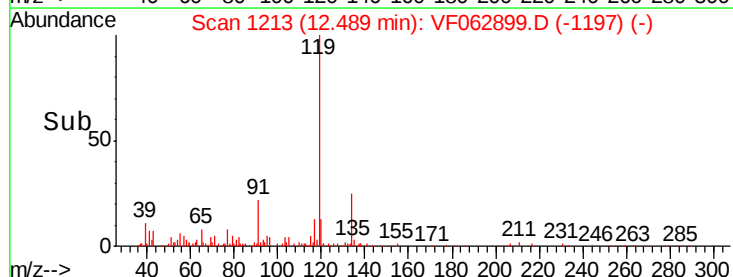
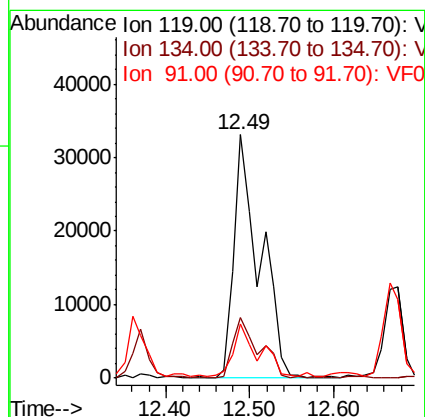
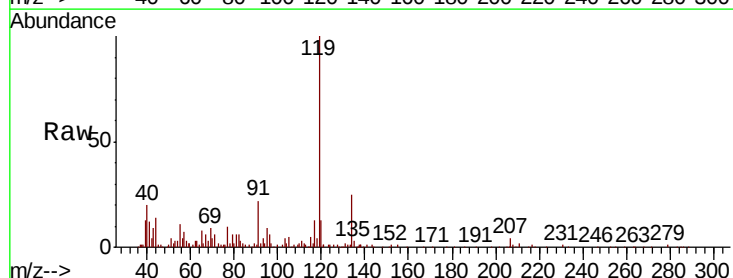
Tgt Ion:119 Resp: 71393

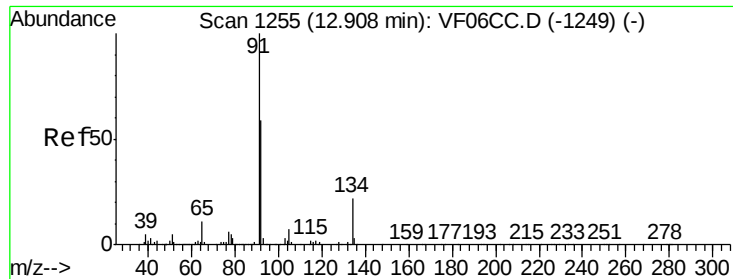
Ion Ratio Lower Upper

119 100

134 25.0 15.5 46.5

91 22.2 10.3 30.9

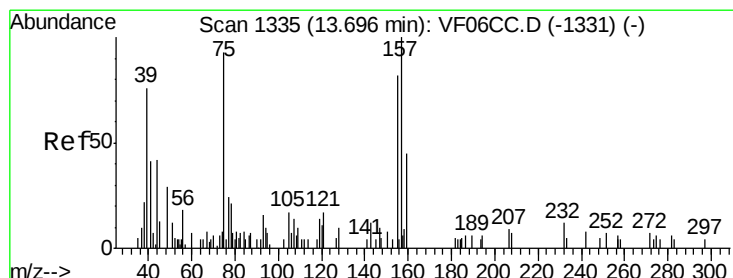
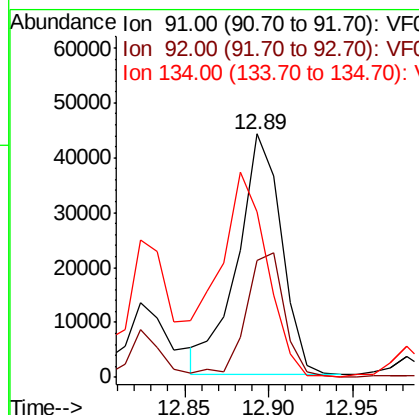
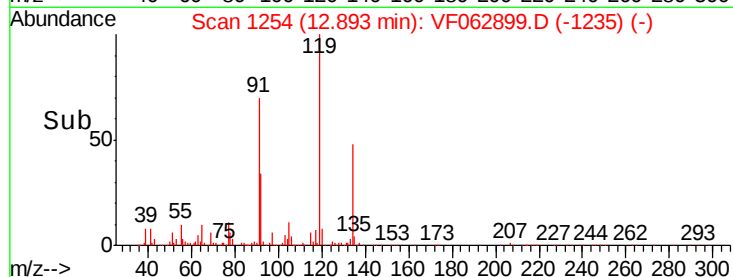
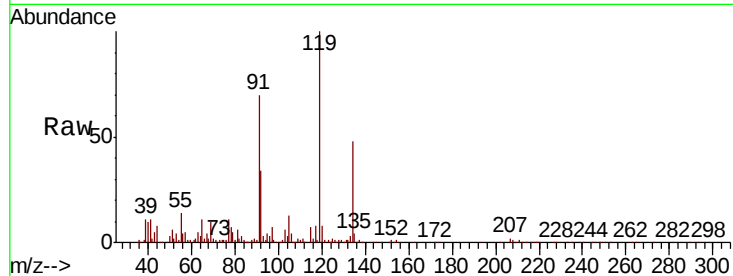




#89
n-Butylbenzene
Concen: 4.323 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.02 min
Lab File: VF062899.D
Acq: 7 Jun 2019 14:50

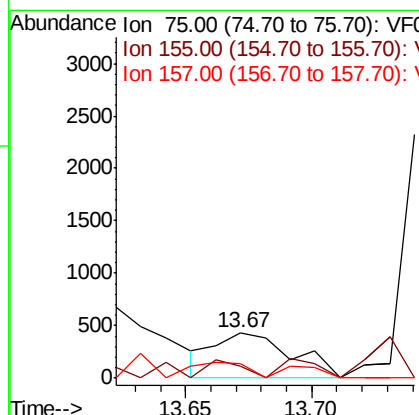
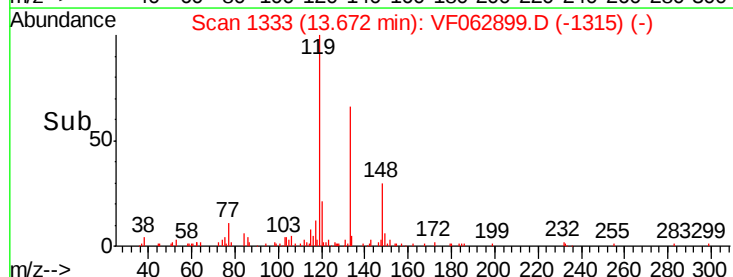
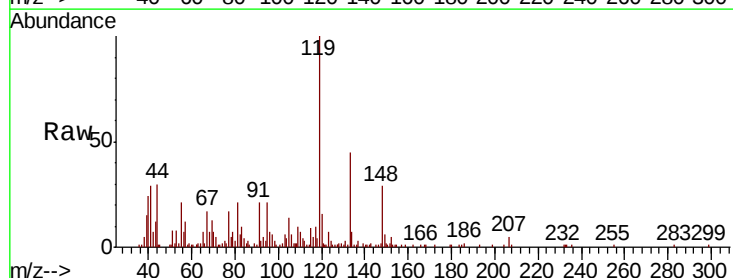
Instrument :
MSVOA_F
ClientSampled :

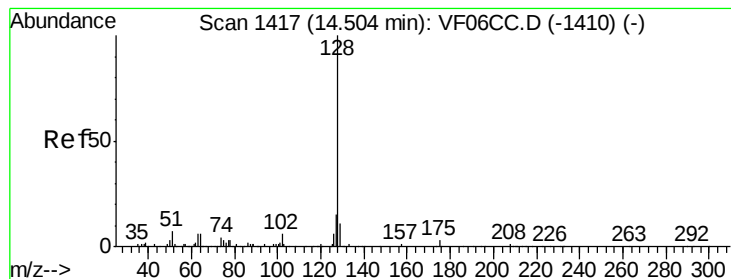
Tot Ion: 91 Resp: 79398
Ion Ratio Lower Upper
91 100
92 48.3 34.2 102.6
134 68.2 15.8 47.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.925 ug/l
RT: 13.67 min Scan# 1333
Delta R.T. -0.03 min
Lab File: VF062899.D
Acq: 7 Jun 2019 14:50

Tgt Ion: 75 Resp: 920
Ion Ratio Lower Upper
75 100
155 25.4 51.7 155.1#
157 30.9 66.8 200.6#





#95

Naphthalene

Concen: 11.038 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF062899.D

Acq: 7 Jun 2019 14:50

Instrument :

MSVOA_F

ClientSampleId :

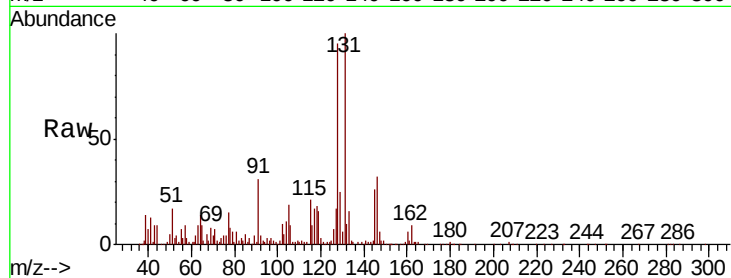
Tot Ion:128 Resp: 99344

Ion Ratio Lower Upper

128 100

127 18.5 9.7 14.5#

129 26.4 9.4 14.2#



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

