

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060519\
 Data File : VF062868.D
 Acq On : 5 Jun 2019 16:34
 Operator : FY/SY
 Sample : K3173-04RE
 Misc : 4.44g/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 06 08:02:34 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	5.08	168	630900	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.80	114	1141925	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	808194	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	228979	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.06	65	161999	37.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	74.26%	
35) Dibromofluoromethane	4.33	113	23574	2.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	5.46%	
50) Toluene-d8	7.73	98	530431	24.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	48.62%	
62) 4-Bromofluorobenzene	11.50	95	166929	21.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	42.54%	

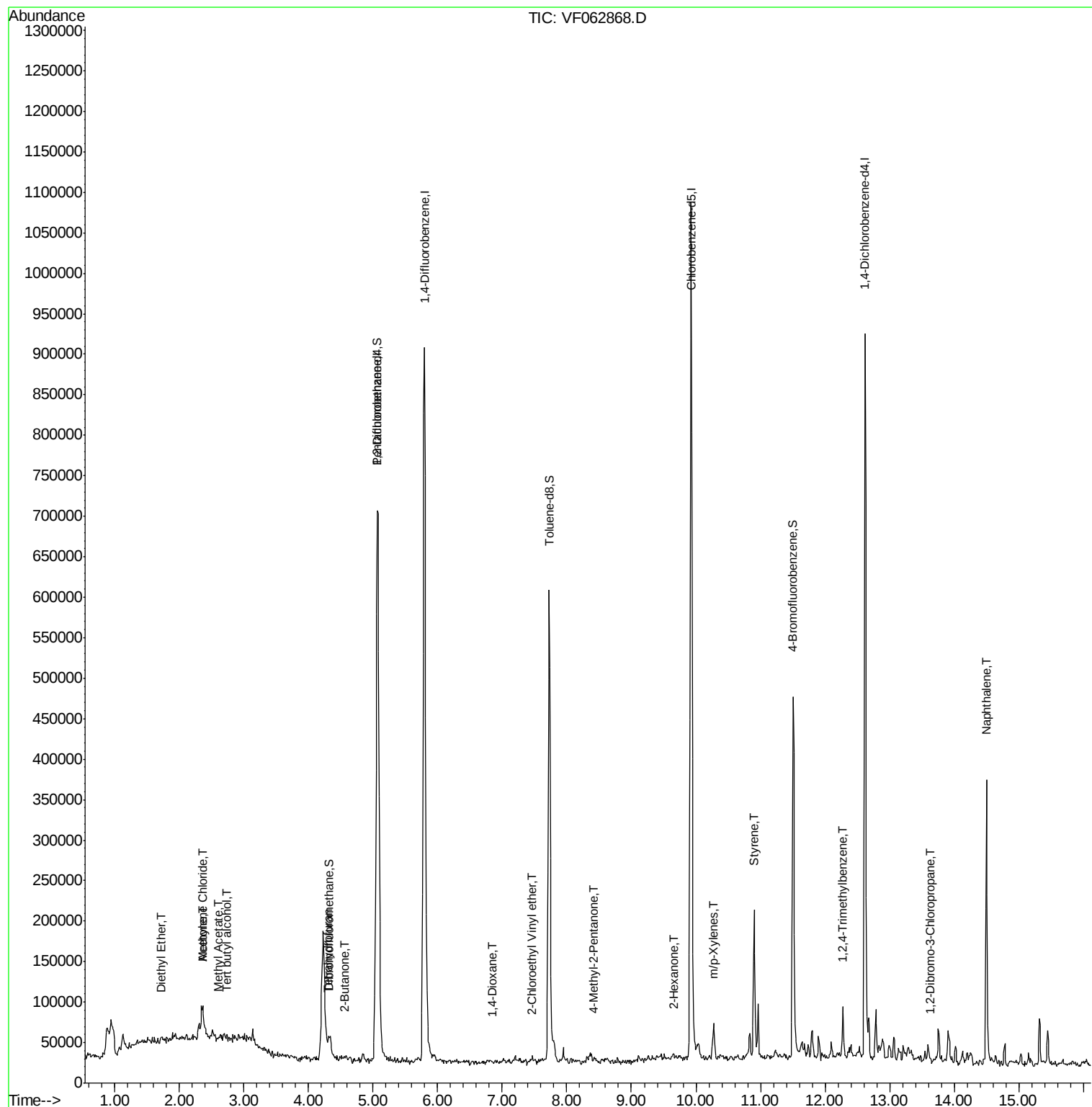
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.92	85	489	Below Cal		98
8) Diethyl Ether	1.71	74	2566	1.420	ug/l	80
11) Tert butyl alcohol	2.72	59	4353	16.471	ug/l #	94
13) Acrolein	2.26	56	586	Below Cal		94
16) Acetone	2.37	43	40763	40.823	ug/l #	90
18) Methyl Acetate	2.61	43	1832	1.050	ug/l	96
20) Methylene Chloride	2.37	84	23948	1.918	ug/l #	79
25) 2-Butanone	4.54	43	9092	3.910	ug/l #	86
29) Tetrahydrofuran	4.30	42	4261	4.791	ug/l #	58
49) 1,4-Dioxane	6.85	88	142	3.938	ug/l #	19
51) 4-Methyl-2-Pentanone	8.43	43	7637	2.015	ug/l #	58
58) 2-Chloroethyl Vinyl ether	7.45	63	3404	1.844	ug/l #	84
59) 2-Hexanone	9.65	43	5820	2.154	ug/l	65
68) m/p-Xylenes	10.27	106	14659	1.430	ug/l #	73
70) Styrene	10.90	104	100514	6.572	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	31866	2.572	ug/l	86
92) 1,2-Dibromo-3-Chloropropan	13.63	75	598	1.609	ug/l	57
95) Naphthalene	14.50	128	235386	33.627	ug/l	99

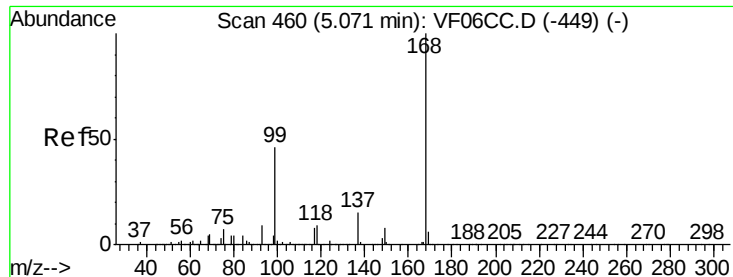
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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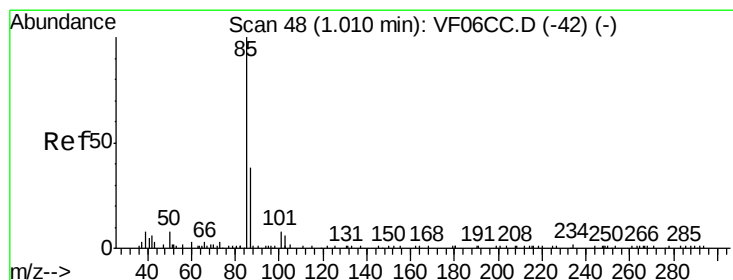
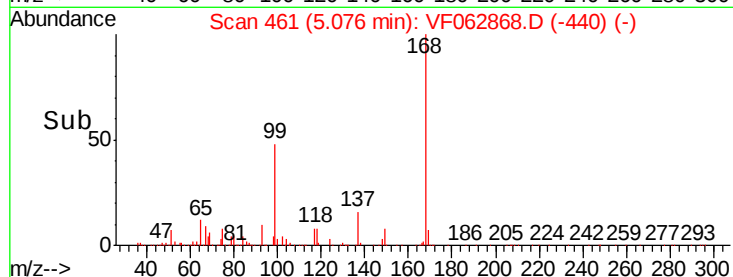
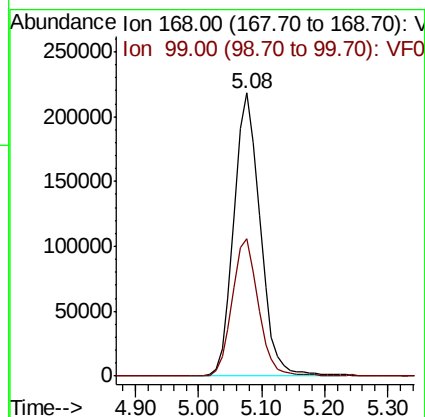
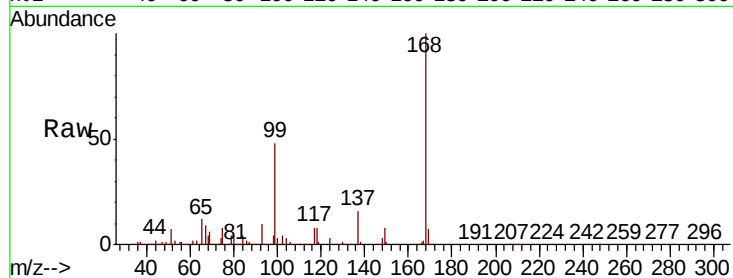


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.08 min Scan# 461
 Delta R.T. 0.00 min
 Lab File: VF062868.D
 Acq: 5 Jun 2019 16:34

Instrument :
 MSVOA_F
 ClientSampled :

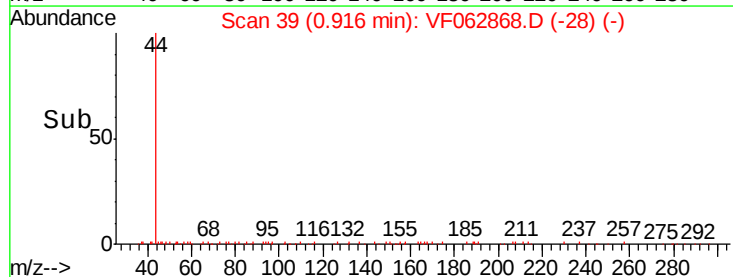
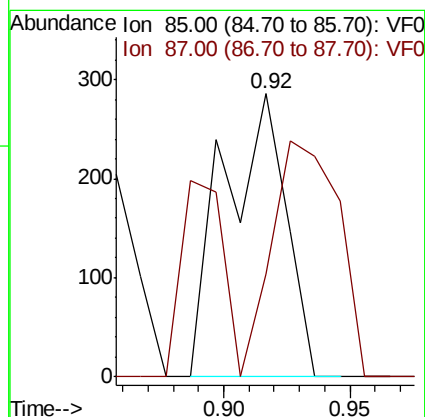
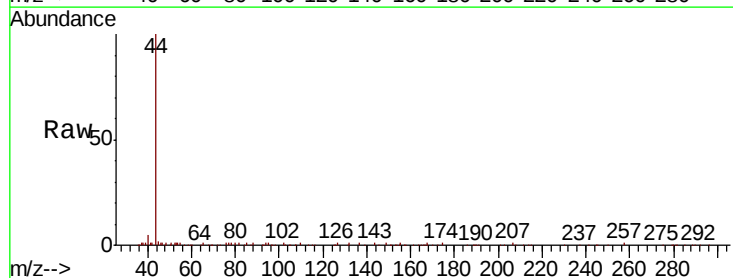
Tot Ion:168 Resp: 630900
 Ion Ratio Lower Upper
 168 100
 99 48.4 39.1 58.7

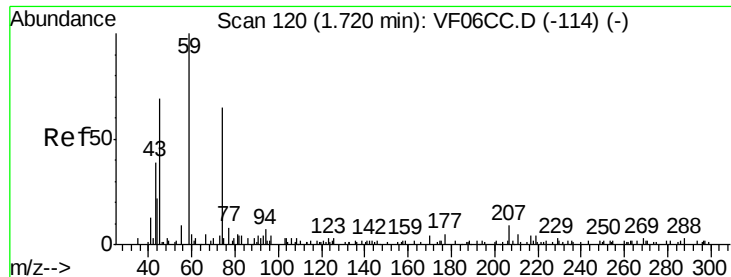


#2

Dichlorodifluoromethane
 Concen: Below Cal
 RT: 0.92 min Scan# 39
 Delta R.T. -0.09 min
 Lab File: VF062868.D
 Acq: 5 Jun 2019 16:34

Tgt Ion: 85 Resp: 489
 Ion Ratio Lower Upper
 85 100
 87 36.4 17.6 52.9





#8

Diethyl Ether

Concen: 1.420 ug/l

RT: 1.71 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF062868.D

Acq: 5 Jun 2019 16:34

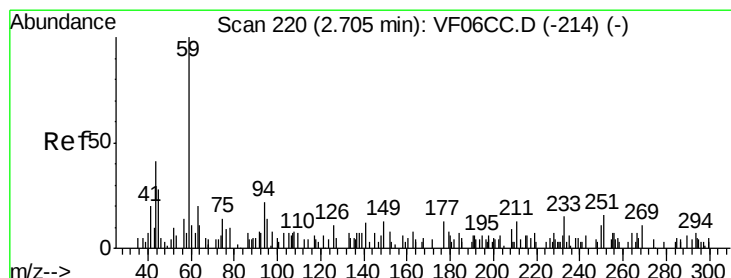
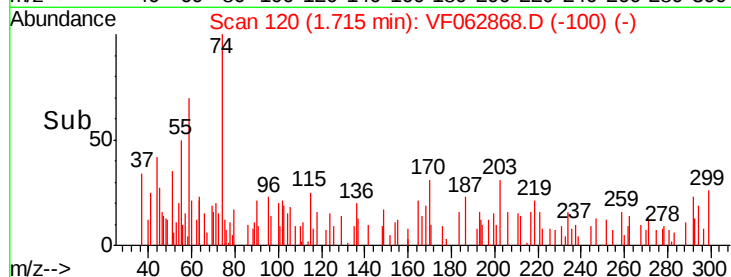
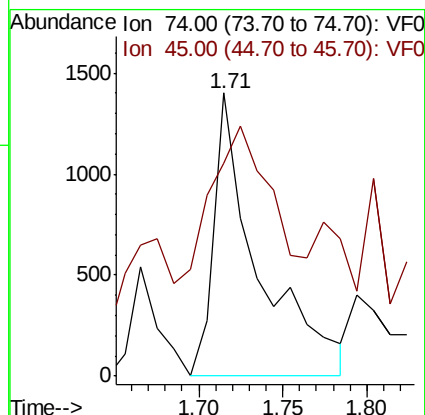
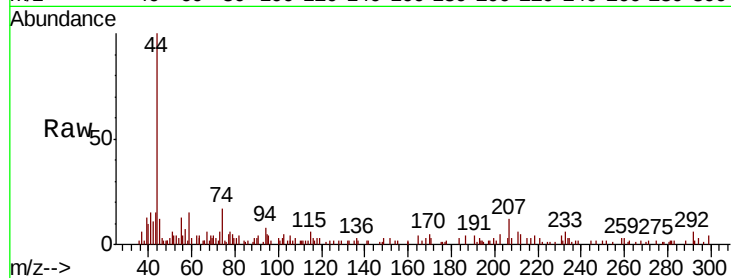
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 74 Resp: 2566

Ion Ratio Lower Upper

74 100

45 75.4 47.5 142.5



#11

Tert butyl alcohol

Concen: 16.471 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.00 min

Lab File: VF062868.D

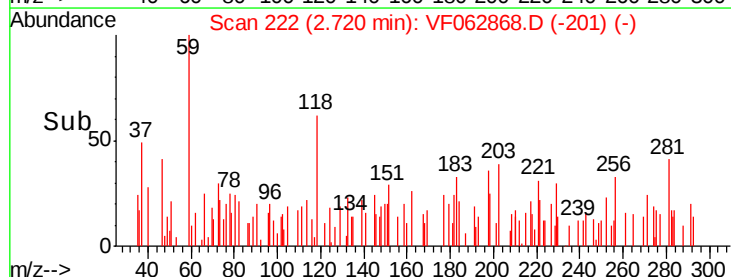
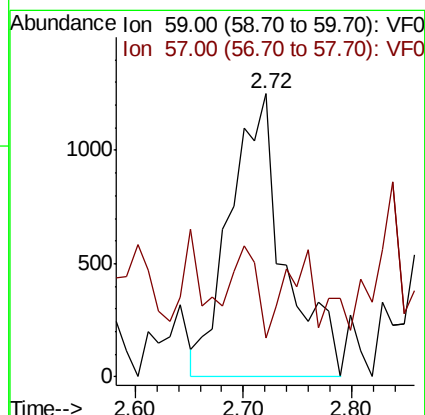
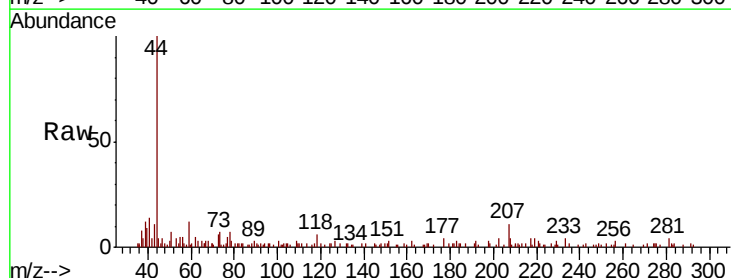
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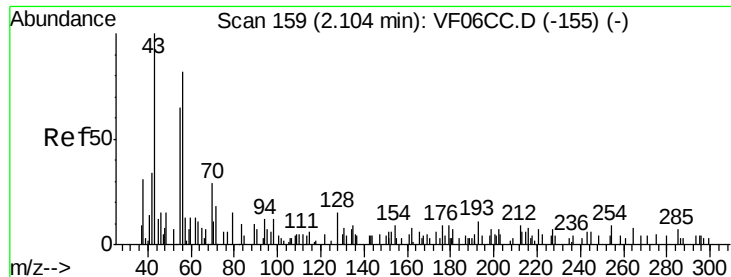
Tgt Ion: 59 Resp: 4353

Ion Ratio Lower Upper

59 100

57 13.8 9.2 13.8#

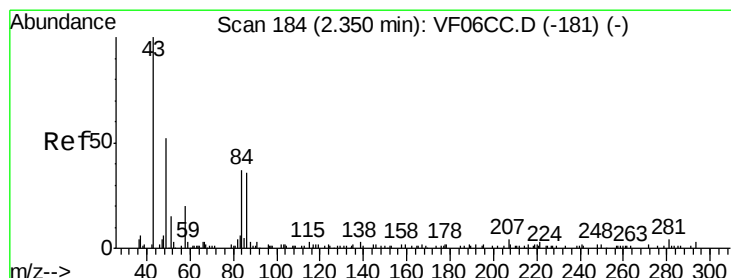
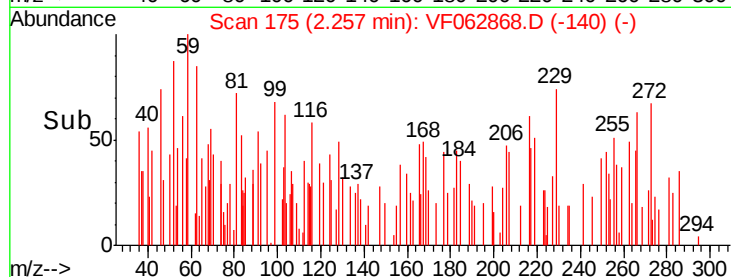
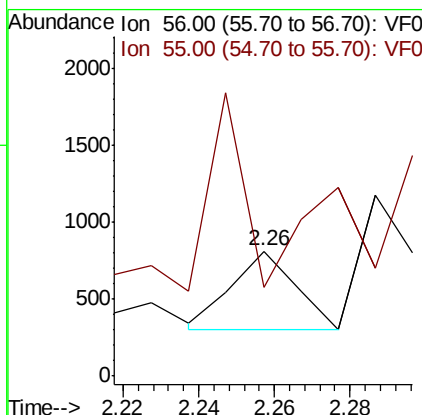
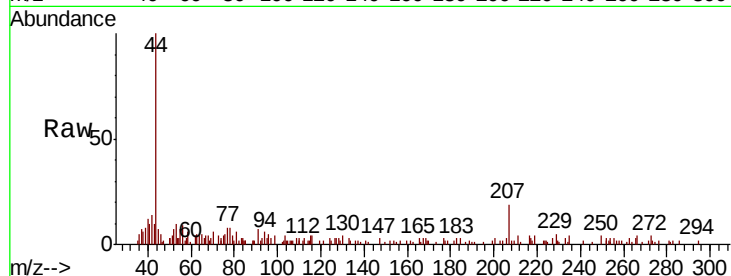




#13
Acrolein
Concen: Below Cal
RT: 2.26 min Scan# 175
Delta R.T. 0.14 min
Lab File: VF062868.D
Acq: 5 Jun 2019 16:34

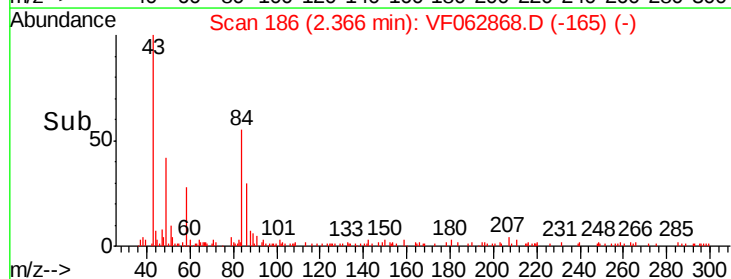
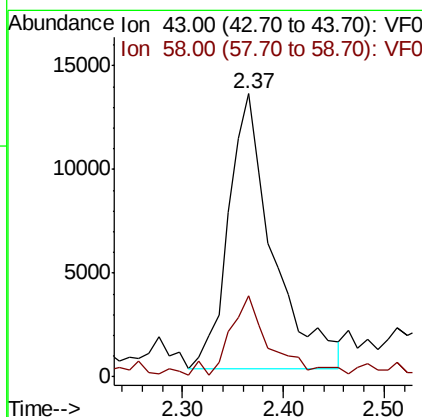
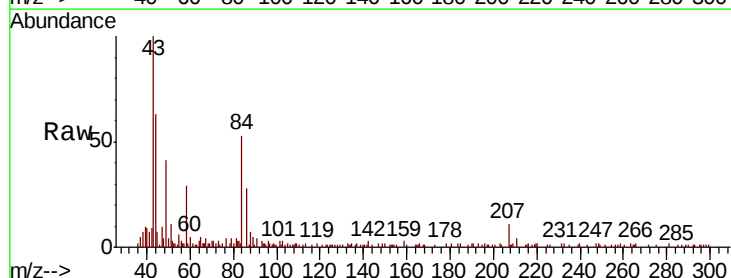
Instrument :
MSVOA_F
ClientSampleId :

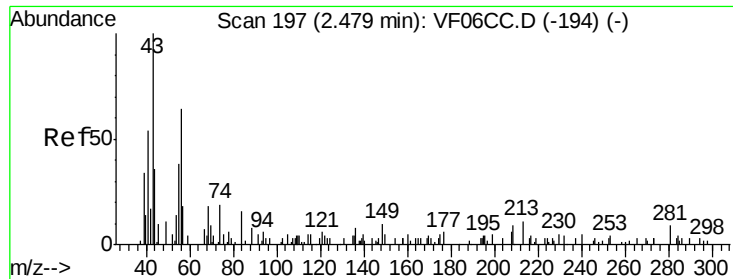
Tot Ion: 56 Resp: 586
Ion Ratio Lower Upper
56 100
55 71.2 52.9 79.3



#16
Acetone
Concen: 40.823 ug/l
RT: 2.37 min Scan# 186
Delta R.T. 0.00 min
Lab File: VF062868.D
Acq: 5 Jun 2019 16:34

Tgt Ion: 43 Resp: 40763
Ion Ratio Lower Upper
43 100
58 28.6 19.0 28.4#

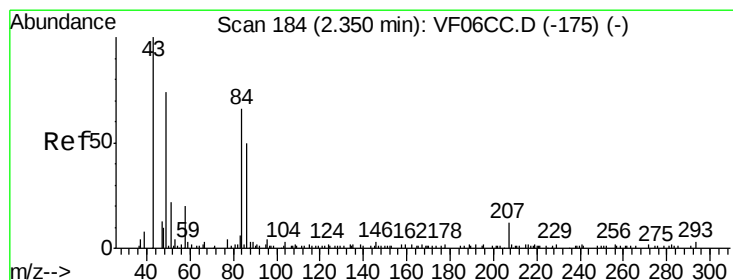
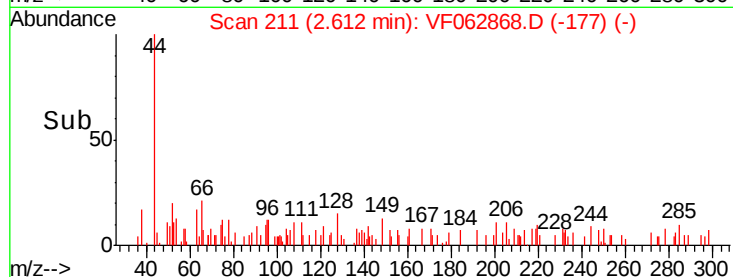
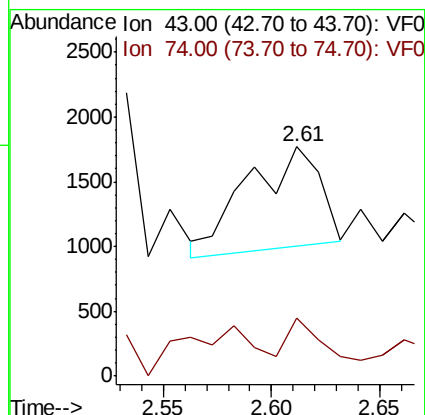
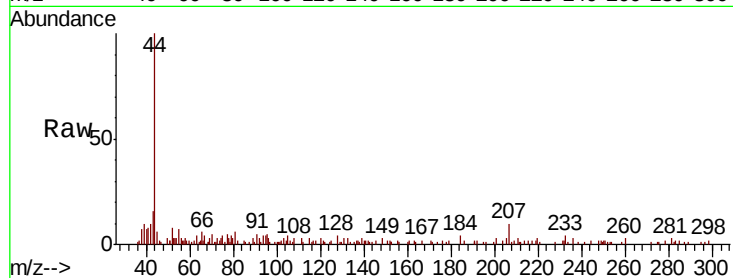




#18
Methyl Acetate
Concen: 1.050 ug/l
RT: 2.61 min Scan# 211
Delta R.T. 0.13 min
Lab File: VF062868.D
Acq: 5 Jun 2019 16:34

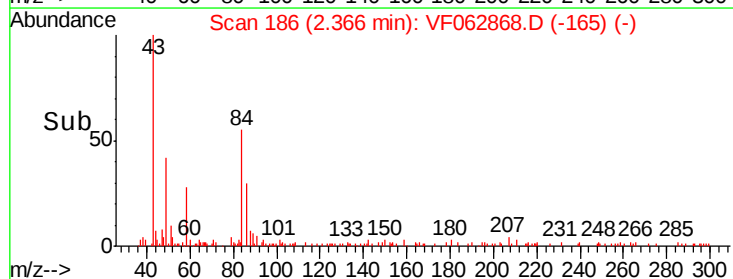
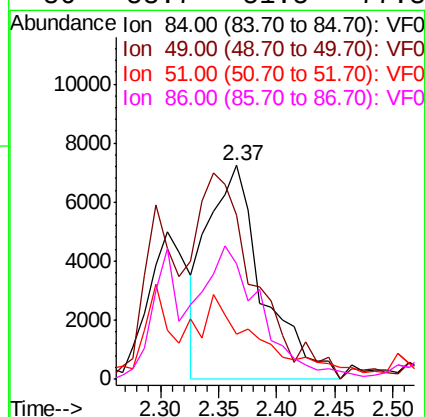
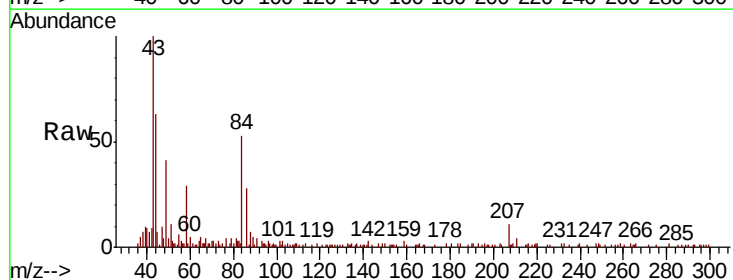
Instrument :
MSVOA_F
ClientSampleId :

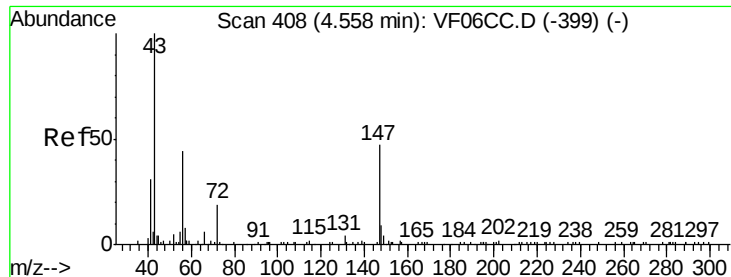
Tot Ion: 43 Resp: 1832
Ion Ratio Lower Upper
43 100
74 25.6 22.1 33.1



#20
Methylene Chloride
Concen: 1.918 ug/l
RT: 2.37 min Scan# 186
Delta R.T. 0.00 min
Lab File: VF062868.D
Acq: 5 Jun 2019 16:34

Tgt Ion: 84 Resp: 23948
Ion Ratio Lower Upper
84 100
49 76.5 82.6 123.8#
51 21.2 25.0 37.4#
86 53.7 51.5 77.3

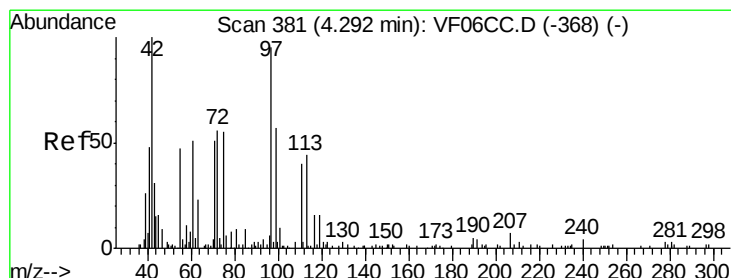
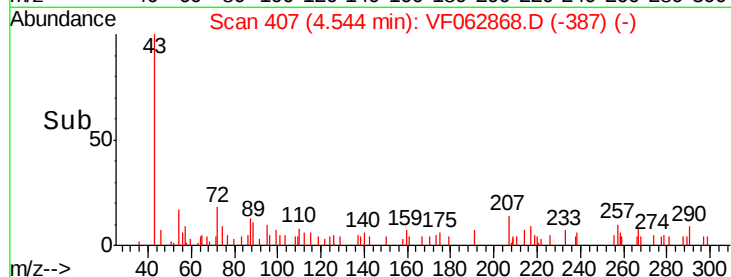
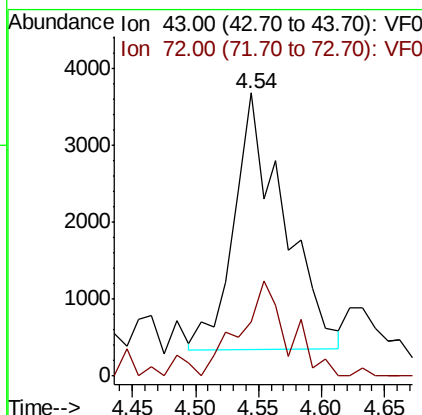
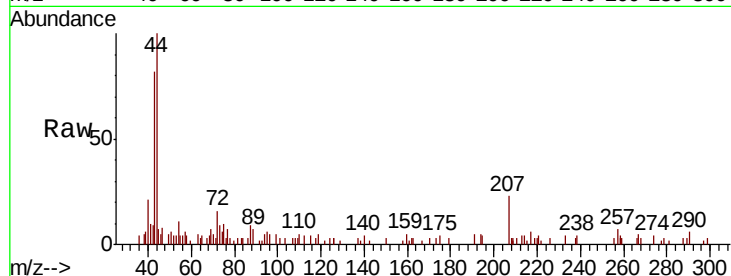




#25
2-Butanone
Concen: 3.910 ug/l
RT: 4.54 min Scan# 407
Delta R.T. -0.01 min
Lab File: VF062868.D
Acq: 5 Jun 2019 16:34

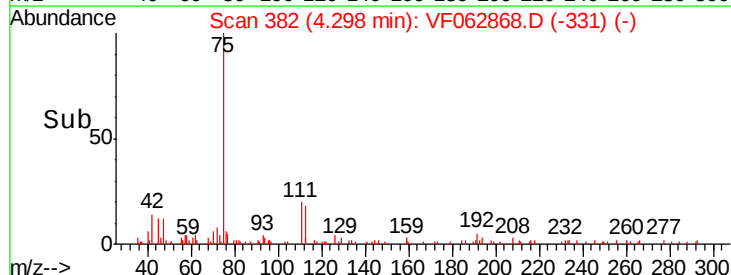
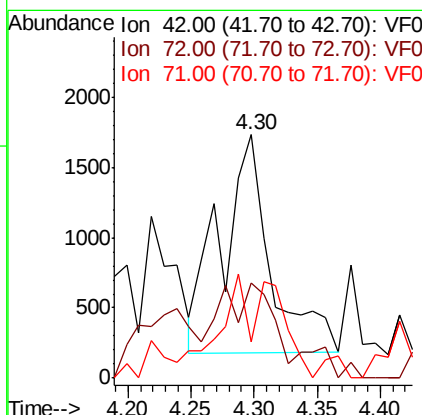
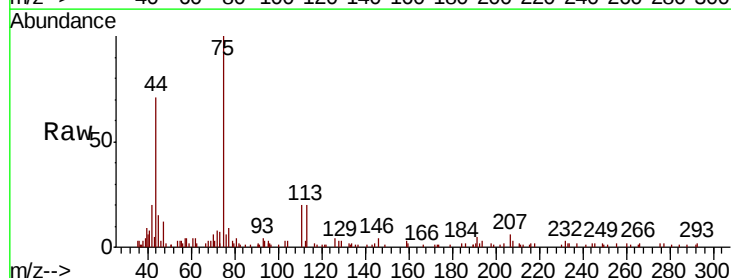
Instrument :
MSVOA_F
ClientSampled :

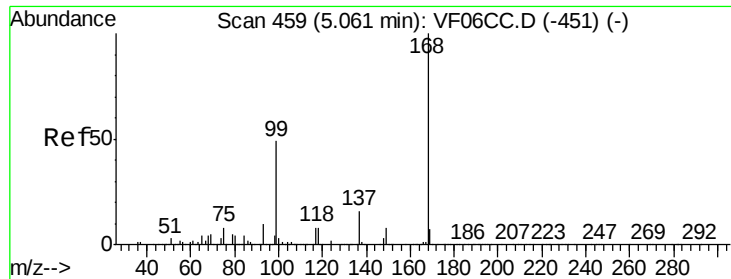
Tot Ion: 43 Resp: 9092
Ion Ratio Lower Upper
43 100
72 19.2 21.4 32.0#



#29
Tetrahydrofuran
Concen: 4.791 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.00 min
Lab File: VF062868.D
Acq: 5 Jun 2019 16:34

Tgt Ion: 42 Resp: 4261
Ion Ratio Lower Upper
42 100
72 9.8 39.0 58.6#
71 28.4 36.9 55.3#





#33

1,2-Dichloroethane-d4

Concen: 37.133 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.00 min

Lab File: VF062868.D

Acq: 5 Jun 2019 16:34

Instrument :

MSVOA_F

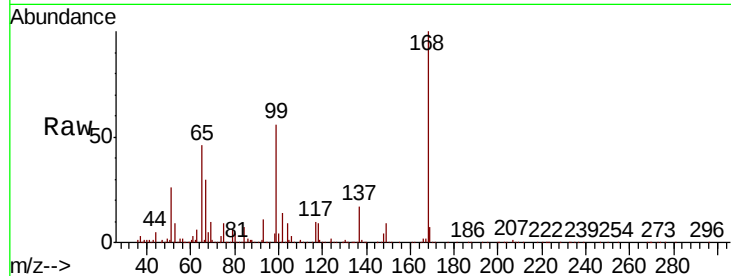
ClientSampleId :

Tot Ion: 65 Resp: 161999

Ion Ratio Lower Upper

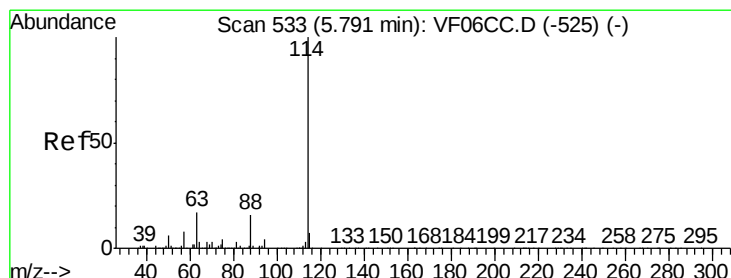
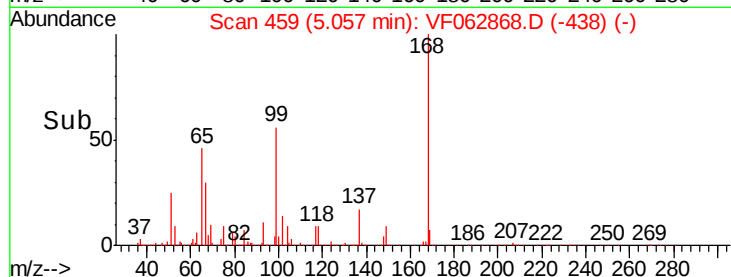
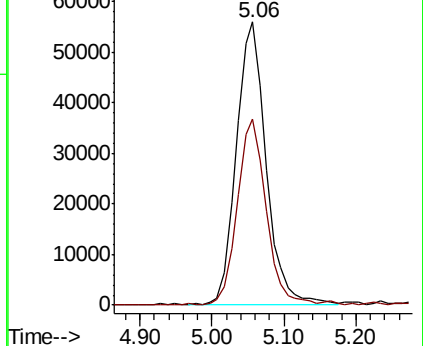
65 100

67 65.8 0.0 121.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 534

Delta R.T. -0.01 min

Lab File: VF062868.D

Acq: 5 Jun 2019 16:34

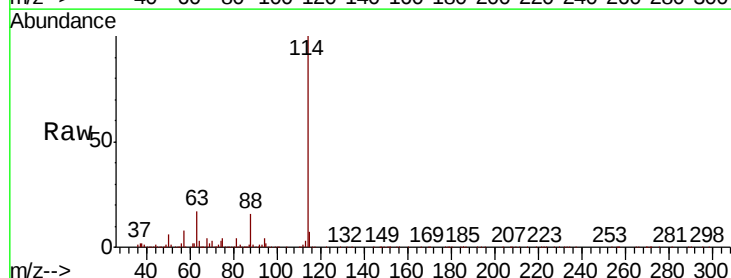
Tgt Ion:114 Resp: 1141925

Ion Ratio Lower Upper

114 100

63 17.0 0.0 34.2

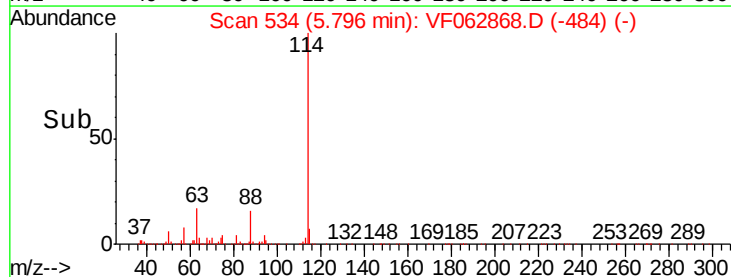
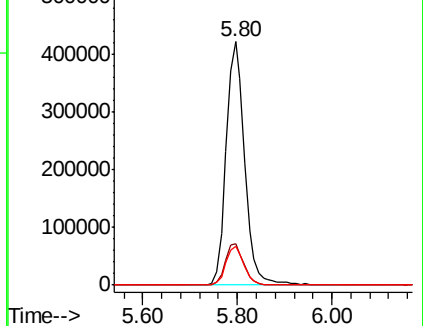
88 15.9 0.0 31.2

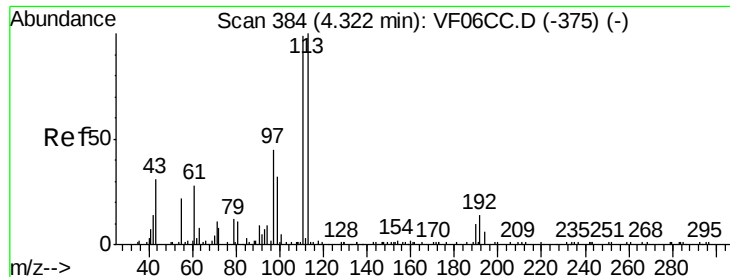


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

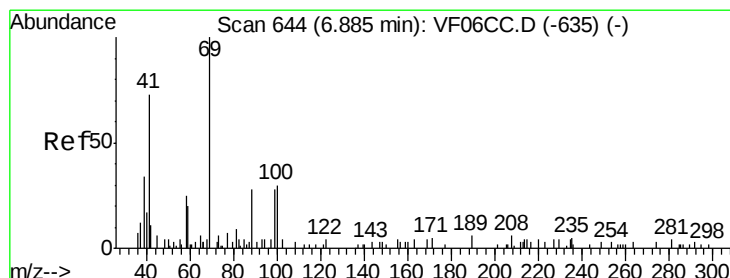
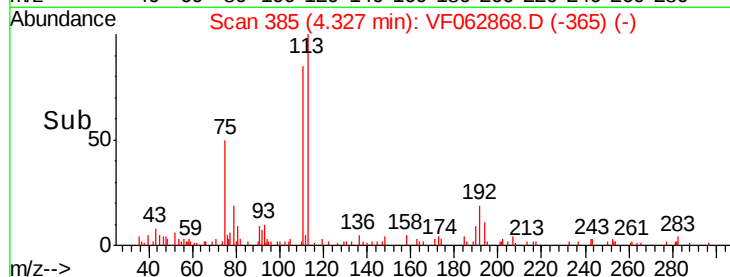
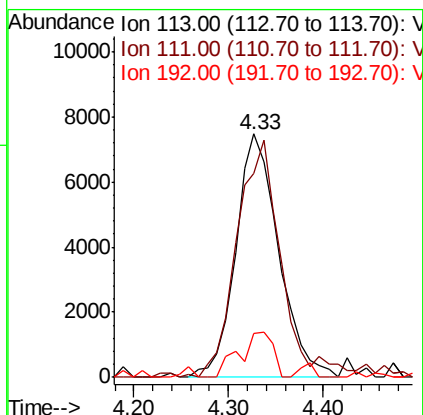
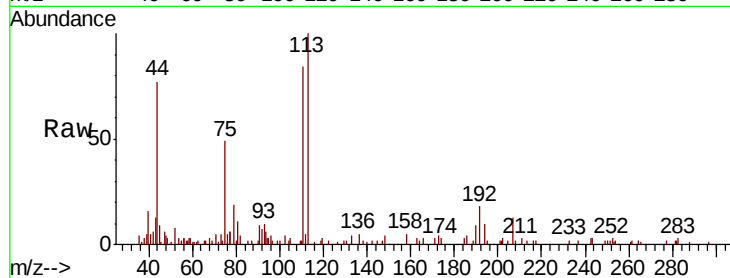




#35
 Dibromofluoromethane
 Concen: 2.732 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. -0.01 min
 Lab File: VF062868.D
 Acq: 5 Jun 2019 16:34

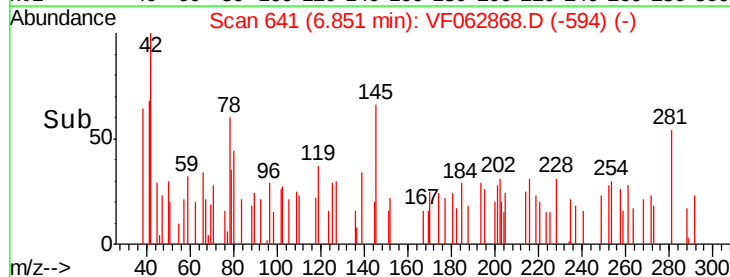
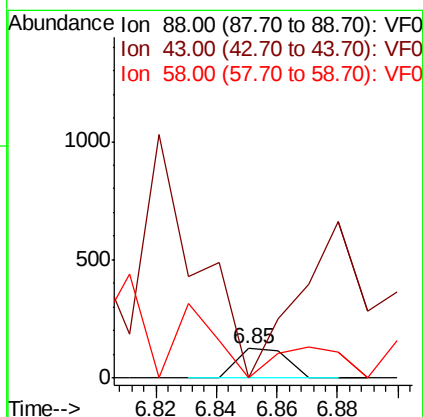
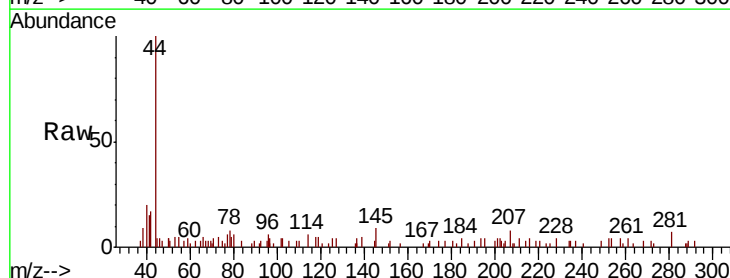
Instrument :
 MSVOA_F
 ClientSampleId :

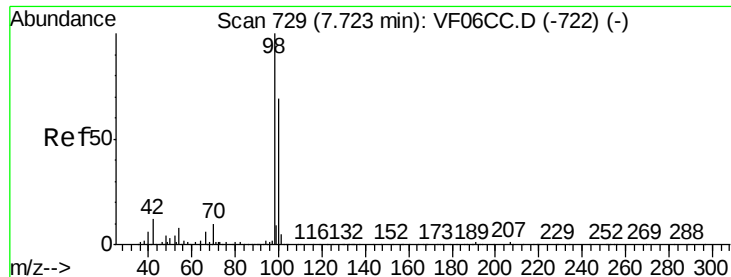
Tot Ion:113 Resp: 23574
 Ion Ratio Lower Upper
 113 100
 111 83.7 81.9 122.9
 192 18.3 15.1 22.7



#49
 1,4-Dioxane
 Concen: 3.938 ug/l
 RT: 6.85 min Scan# 641
 Delta R.T. -0.04 min
 Lab File: VF062868.D
 Acq: 5 Jun 2019 16:34

Tgt Ion: 88 Resp: 142
 Ion Ratio Lower Upper
 88 100
 43 0.0 34.8 52.2#
 58 0.0 59.9 89.9#

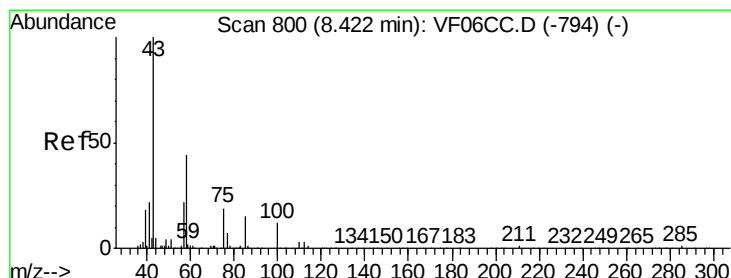
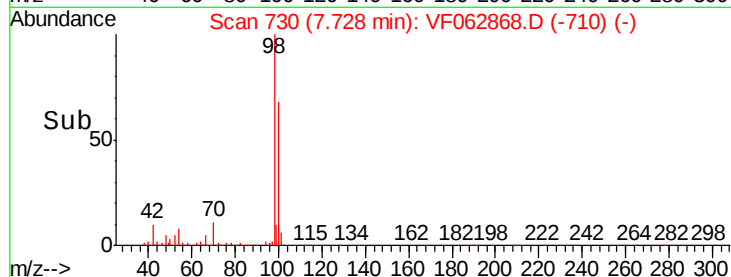
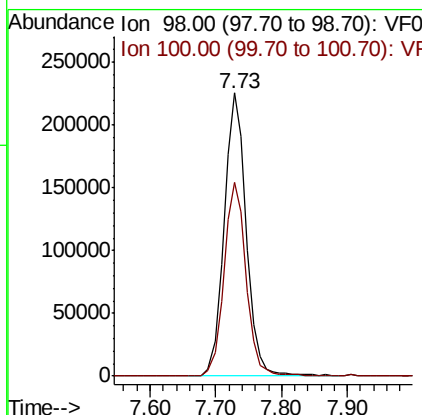
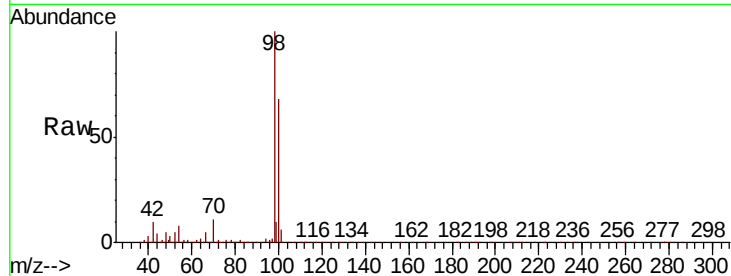




#50
Toluene-d8
Concen: 24.309 ug/l
RT: 7.73 min Scan# 730
Delta R.T. -0.01 min
Lab File: VF062868.D
Acq: 5 Jun 2019 16:34

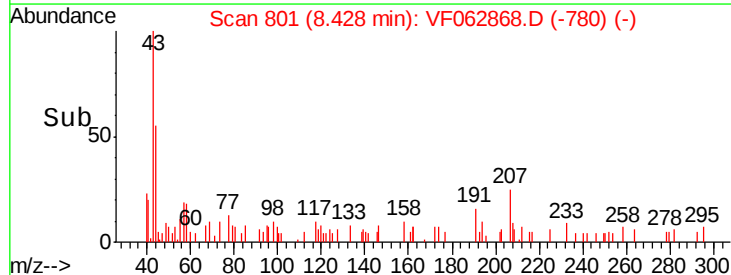
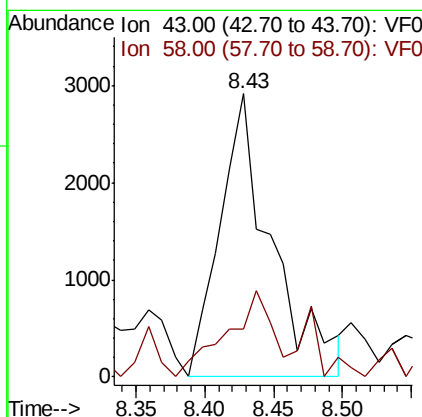
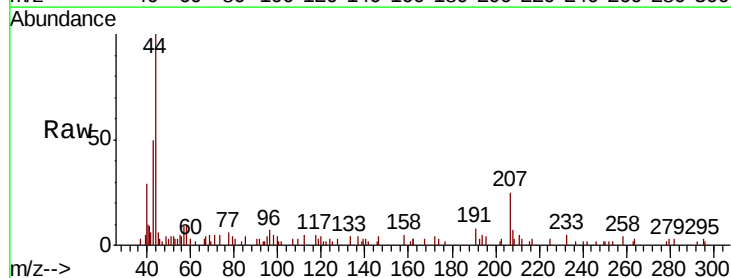
Instrument :
MSVOA_F
ClientSampled :

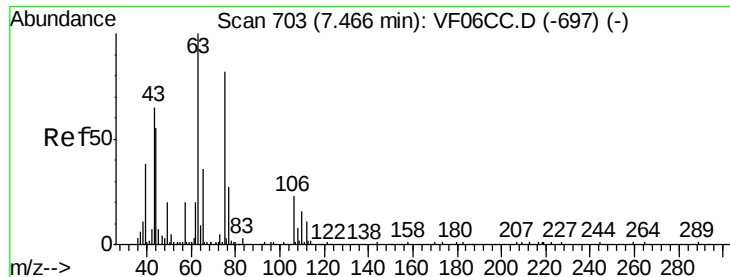
Tot Ion: 98 Resp: 530431
Ion Ratio Lower Upper
98 100
100 68.3 59.8 89.8



#51
4-Methyl-2-Pentanone
Concen: 2.015 ug/l
RT: 8.43 min Scan# 801
Delta R.T. 0.00 min
Lab File: VF062868.D
Acq: 5 Jun 2019 16:34

Tgt Ion: 43 Resp: 7637
Ion Ratio Lower Upper
43 100
58 16.9 35.5 53.3#





#58

2-Chloroethyl Vinyl ether

Concen: 1.844 ug/l

RT: 7.45 min Scan# 702

Delta R.T. -0.02 min

Lab File: VF062868.D

Acq: 5 Jun 2019 16:34

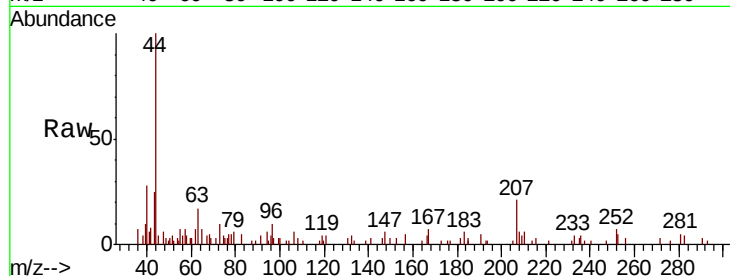
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 63 Resp: 3404

Ion Ratio Lower Upper

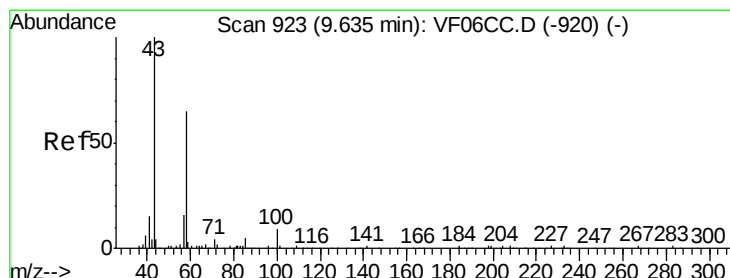
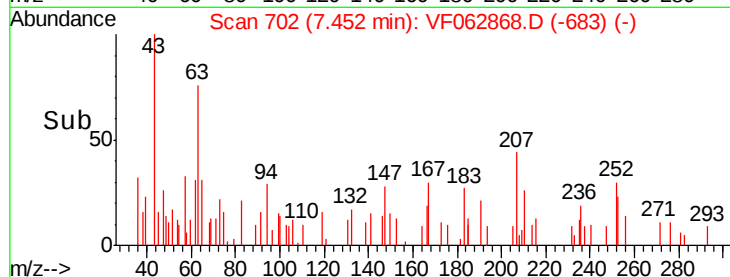
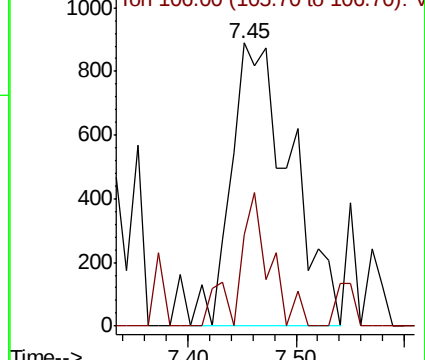
63 100

106 32.4 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: 2.154 ug/l

RT: 9.65 min Scan# 925

Delta R.T. 0.01 min

Lab File: VF062868.D

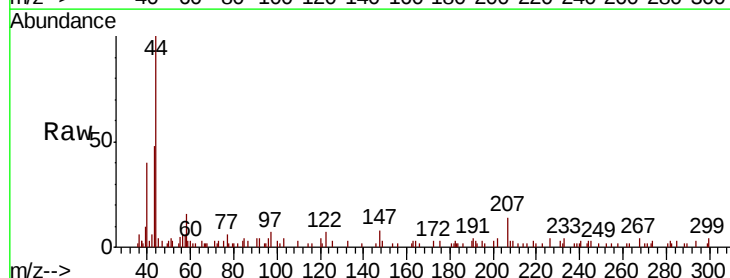
Acq: 5 Jun 2019 16:34

Tgt Ion: 43 Resp: 5820

Ion Ratio Lower Upper

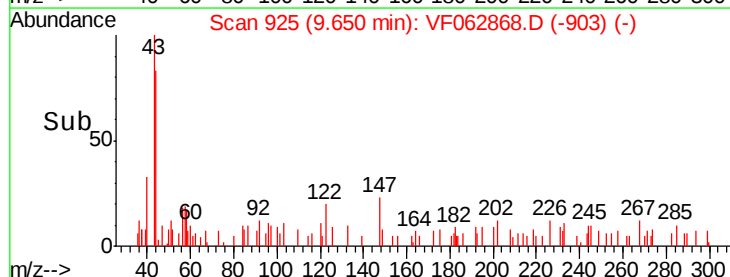
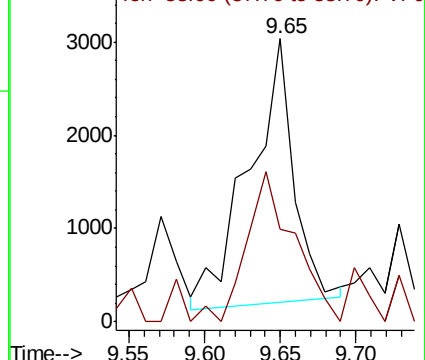
43 100

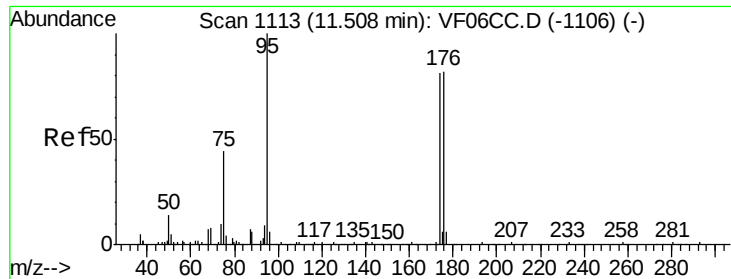
58 32.6 29.3 87.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 21.267 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF062868.D

Acq: 5 Jun 2019 16:34

Instrument :

MSVOA_F

ClientSampled :

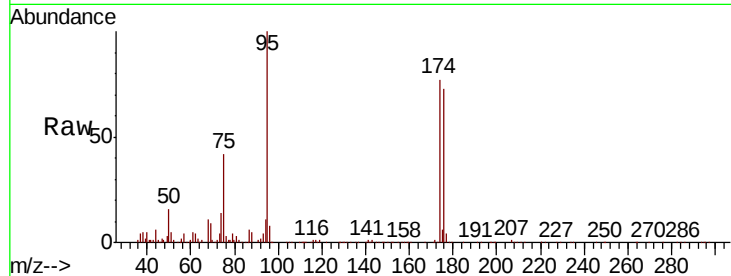
Tot Ion: 95 Resp: 166929

Ion Ratio Lower Upper

95 100

174 76.8 0.0 170.6

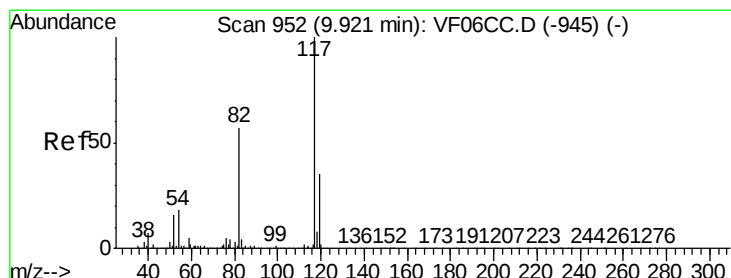
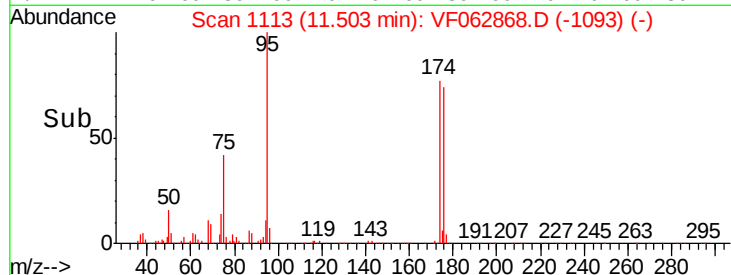
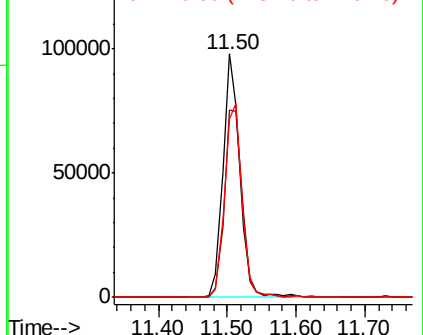
176 73.3 0.0 170.6



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: 9.93 min Scan# 953

Delta R.T. -0.01 min

Lab File: VF062868.D

Acq: 5 Jun 2019 16:34

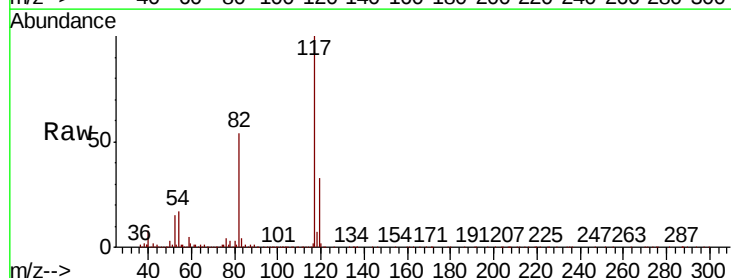
Tgt Ion: 117 Resp: 808194

Ion Ratio Lower Upper

117 100

82 53.8 42.4 63.6

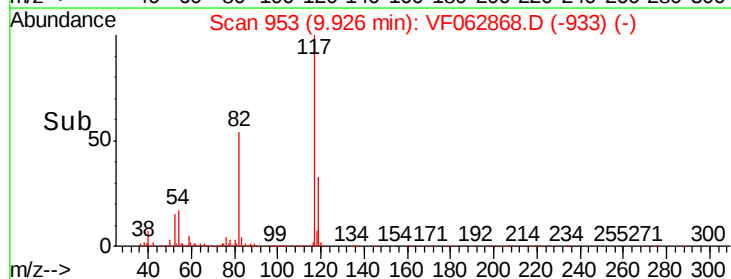
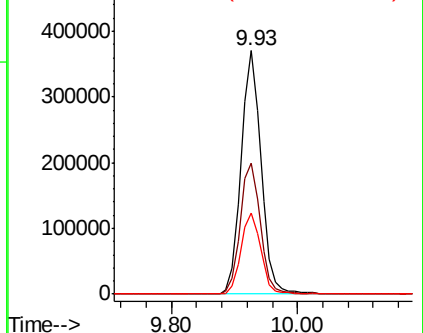
119 33.1 27.1 40.7

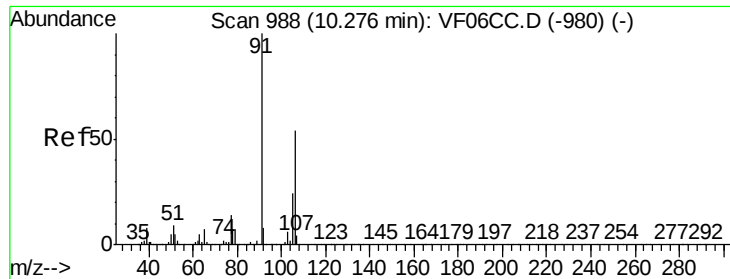


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

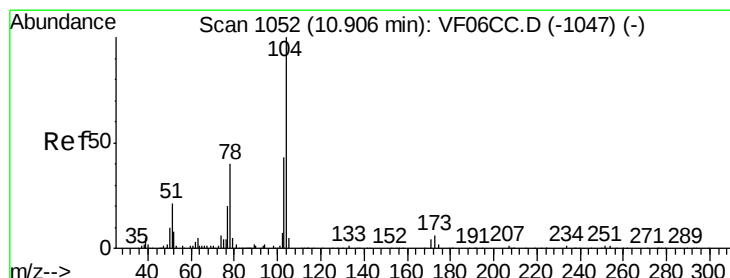
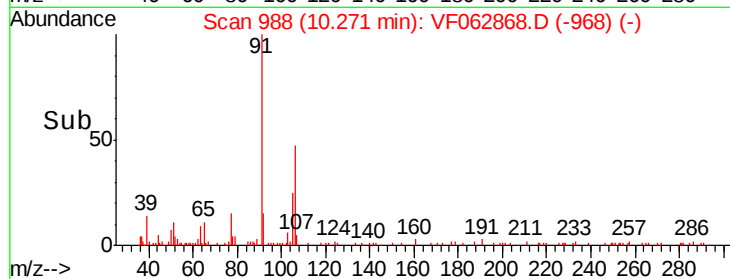
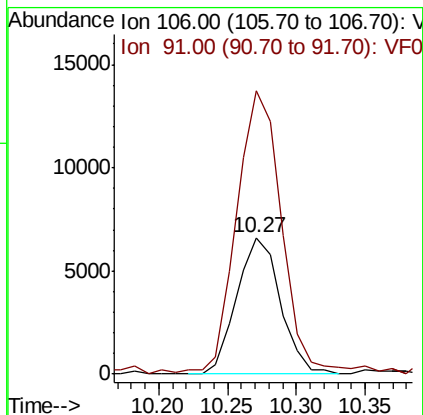
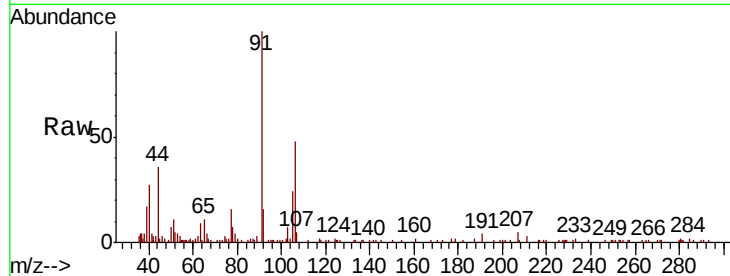




#68
m/p-Xylenes
Concen: 1.430 ug/l
RT: 10.27 min Scan# 988
Delta R.T. -0.01 min
Lab File: VF062868.D
Acq: 5 Jun 2019 16:34

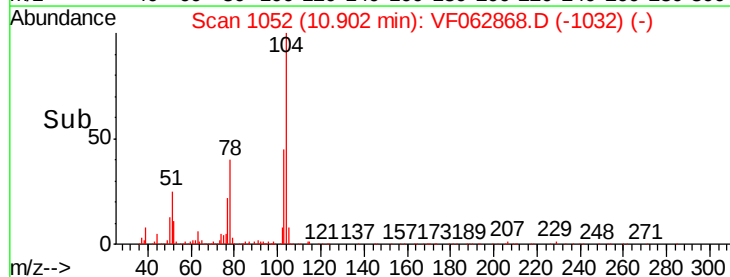
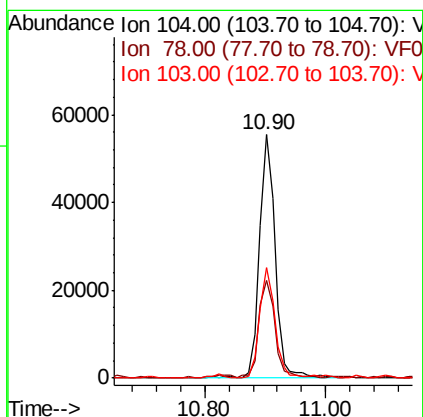
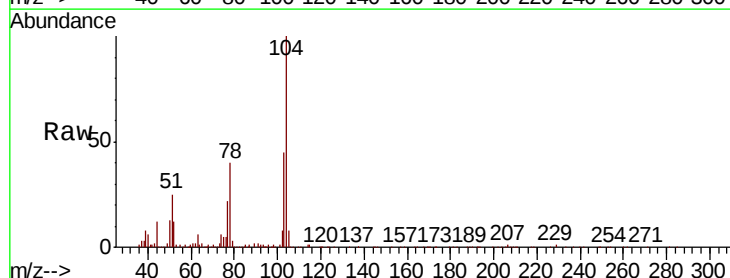
Instrument :
MSVOA_F
ClientSampled :

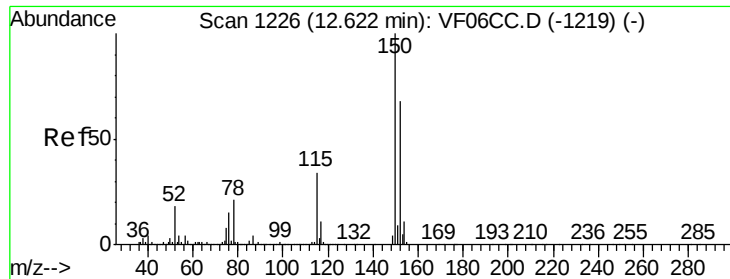
Tot Ion:106 Resp: 14659
Ion Ratio Lower Upper
106 100
91 206.9 136.2 204.4#



#70
Styrene
Concen: 6.572 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VF062868.D
Acq: 5 Jun 2019 16:34

Tgt Ion:104 Resp: 100514
Ion Ratio Lower Upper
104 100
78 40.0 30.8 46.2
103 45.4 35.8 53.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF062868.D

Acq: 5 Jun 2019 16:34

Instrument :

MSVOA_F

ClientSampleId :

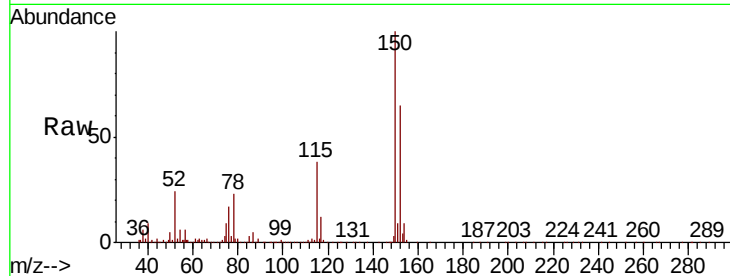
Tot Ion:152 Resp: 228979

Ion Ratio Lower Upper

152 100

115 58.4 24.6 74.0

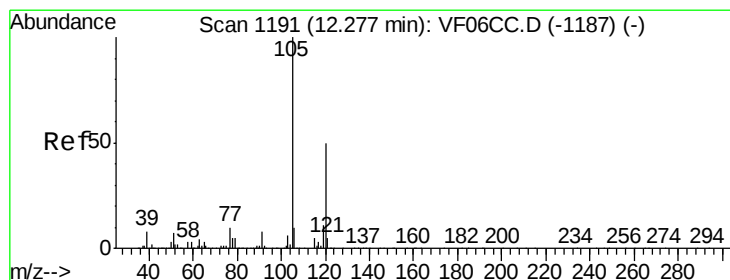
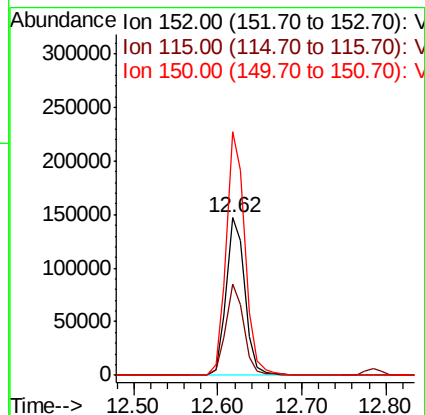
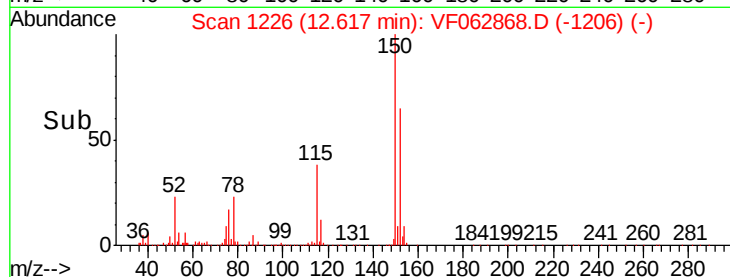
150 154.6 0.0 290.6



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



#84

1,2,4-Trimethylbenzene

Concen: 2.572 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. -0.01 min

Lab File: VF062868.D

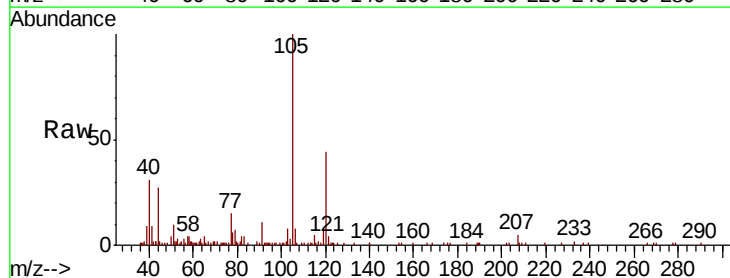
Acq: 5 Jun 2019 16:34

Tgt Ion:105 Resp: 31866

Ion Ratio Lower Upper

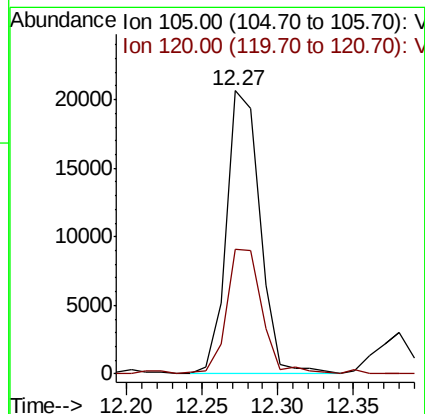
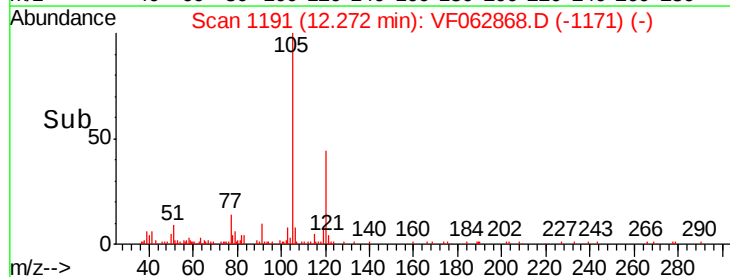
105 100

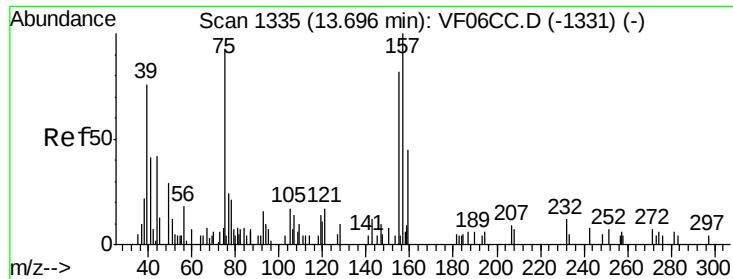
120 44.1 27.1 81.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.609 ug/l

RT: 13.63 min Scan# 1329

Delta R.T. -0.07 min

Lab File: VF062868.D

Acq: 5 Jun 2019 16:34

Instrument :

MSVOA_F

ClientSampled :

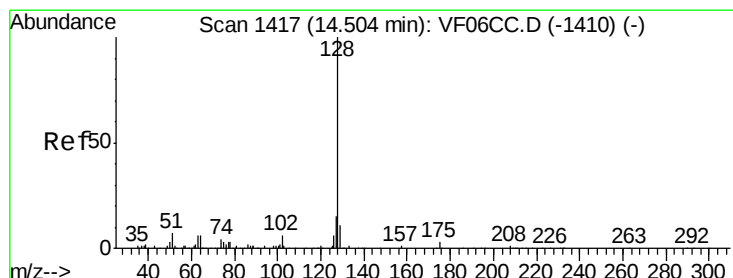
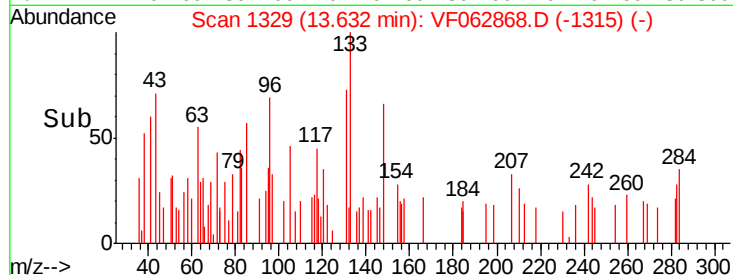
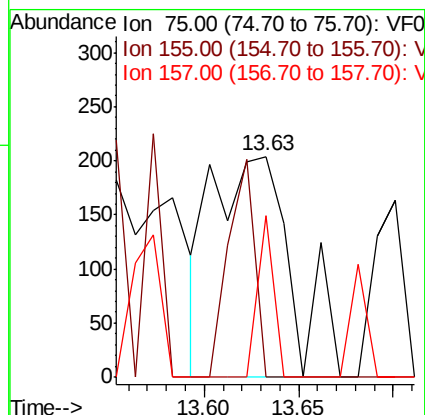
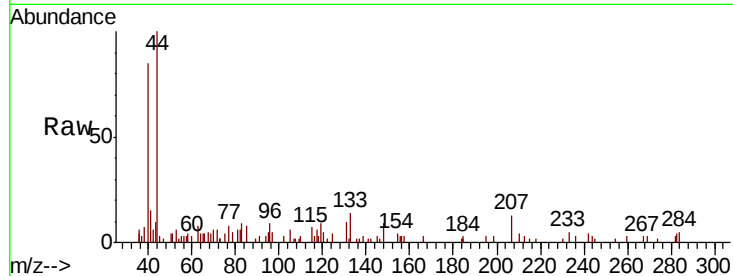
Tot Ion: 75 Resp: 598

Ion Ratio Lower Upper

75 100

155 70.1 51.7 155.1

157 73.0 66.8 200.6



#95

Naphthalene

Concen: 33.627 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF062868.D

Acq: 5 Jun 2019 16:34

Tgt Ion: 128 Resp: 235386

Ion Ratio Lower Upper

128 100

127 12.8 9.7 14.5

129 11.6 9.4 14.2

