

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF061219\
 Data File : VF062937.D
 Acq On : 12 Jun 2019 19:40
 Operator : FY/SY
 Sample : K3344-02
 Misc : 4.79g/5mL/MSVOA F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 13 08:32:46 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	5.05	168	422891	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.78	114	773421	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.91	117	518539	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.61	152	233970	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	163146	55.79	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	111.58%	
35) Dibromofluoromethane	4.31	113	4382	0.75	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	1.50%	
50) Toluene-d8	7.71	98	509015	34.44	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	68.88%	
62) 4-Bromofluorobenzene	11.49	95	175365	32.99	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	65.98%	

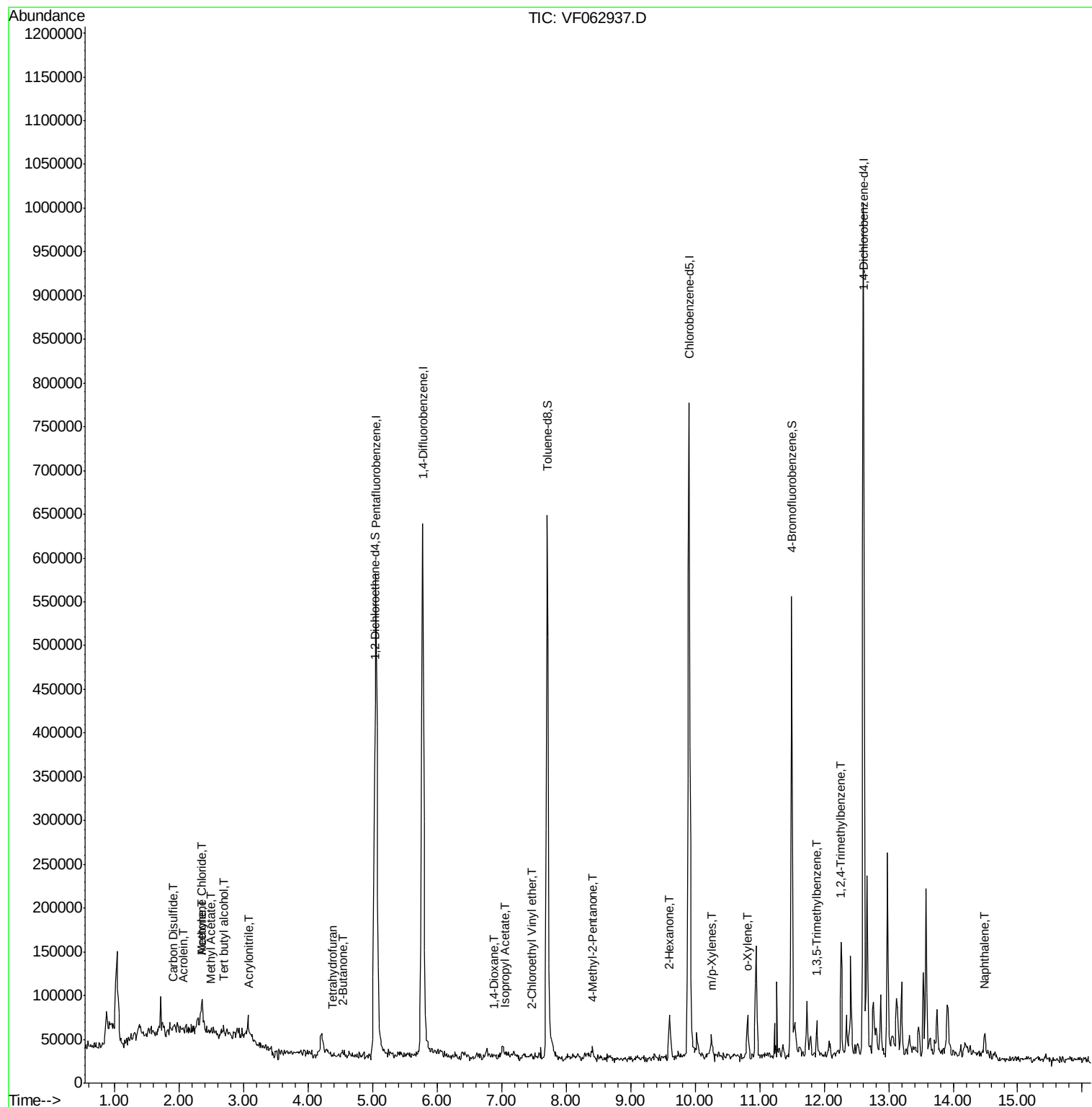
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.94	85	328	Below Cal		91
11) Tert butyl alcohol	2.70	59	1308	7.383	ug/l #	1
13) Acrolein	2.07	56	859	4.089	ug/l	89
15) Acrylonitrile	3.10	53	2614	3.927	ug/l #	28
16) Acetone	2.36	43	34850	52.069	ug/l	92
17) Carbon Disulfide	1.91	76	18265	1.778	ug/l #	92
18) Methyl Acetate	2.49	43	4083	3.491	ug/l #	79
20) Methylene Chloride	2.35	84	14191	1.327	ug/l #	88
25) 2-Butanone	4.53	43	7720	4.953	ug/l #	80
29) Tetrahydrofuran	4.37	42	614	1.030	ug/l	95
43) Isopropyl Acetate	7.06	43	5039	1.401	ug/l #	50
49) 1,4-Dioxane	6.87	88	123	5.036	ug/l #	1
51) 4-Methyl-2-Pentanone	8.41	43	13051	5.084	ug/l #	77
58) 2-Chloroethyl Vinyl ether	7.45	63	1399	1.119	ug/l	91
59) 2-Hexanone	9.60	43	15809	8.641	ug/l	61
68) m/p-Xylenes	10.26	106	8322	1.266	ug/l	97
69) o-Xylene	10.81	106	11529	1.732	ug/l	91
80) 1,3,5-Trimethylbenzene	11.89	105	17488	1.310	ug/l	97
84) 1,2,4-Trimethylbenzene	12.26	105	64483	5.094	ug/l	83
95) Naphthalene	14.49	128	16659	2.329	ug/l	97

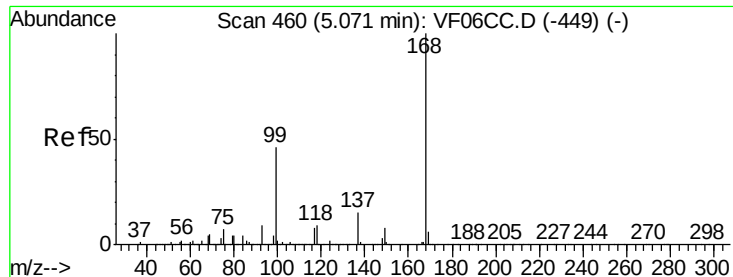
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.03 min

Lab File: VF062937.D

Acq: 12 Jun 2019 19:40

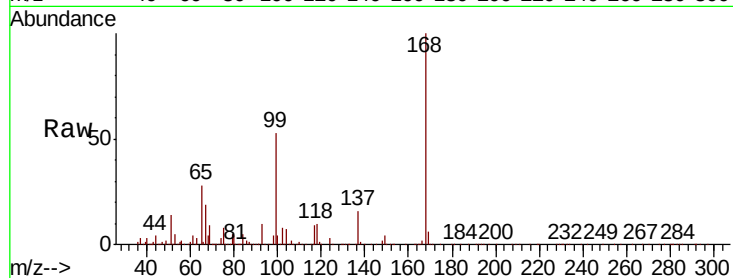
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 422891

Ion Ratio Lower Upper

168 100

99 53.5 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

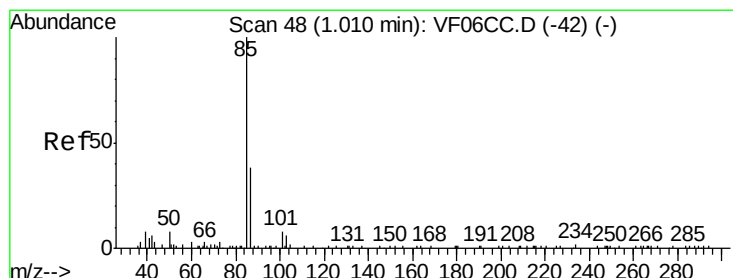
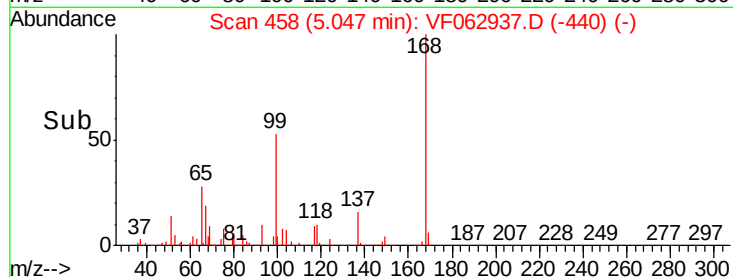
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.94 min Scan# 41

Delta R.T. -0.07 min

Lab File: VF062937.D

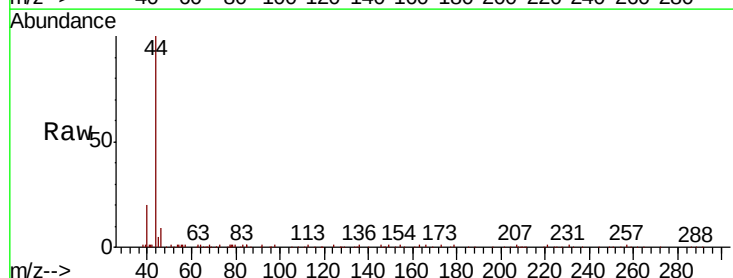
Acq: 12 Jun 2019 19:40

Tgt Ion: 85 Resp: 328

Ion Ratio Lower Upper

85 100

87 30.3 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.94

600

500

400

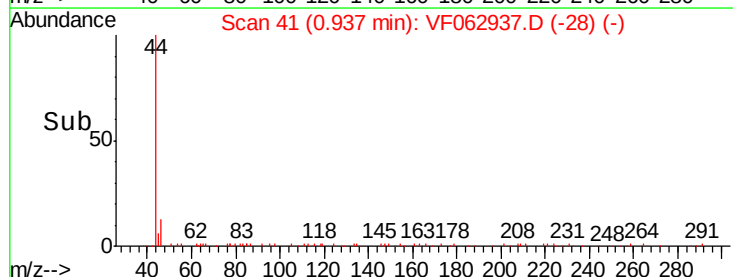
300

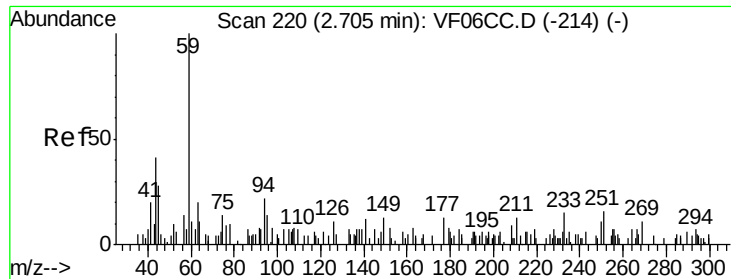
200

100

0

Time-->

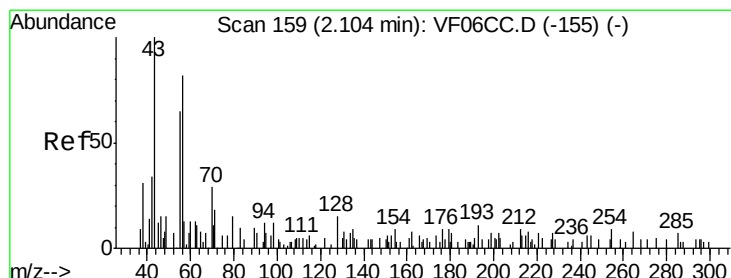
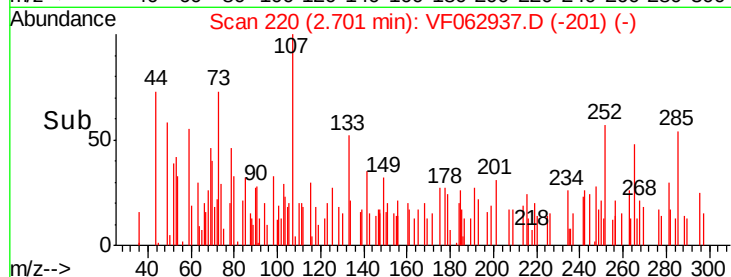
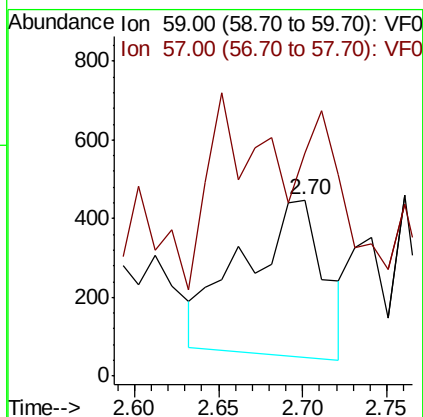
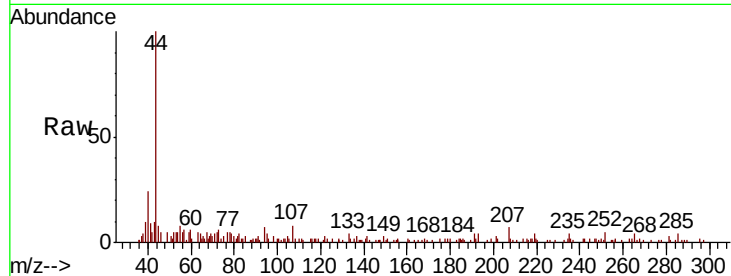




#11
Tert butyl alcohol
Concen: 7.383 ug/l
RT: 2.70 min Scan# 220
Delta R.T. -0.02 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

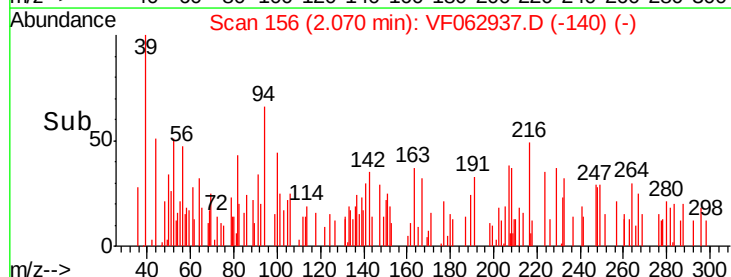
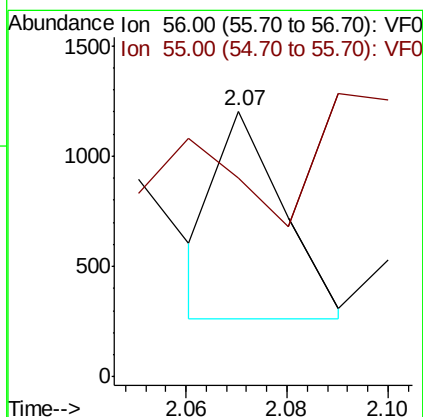
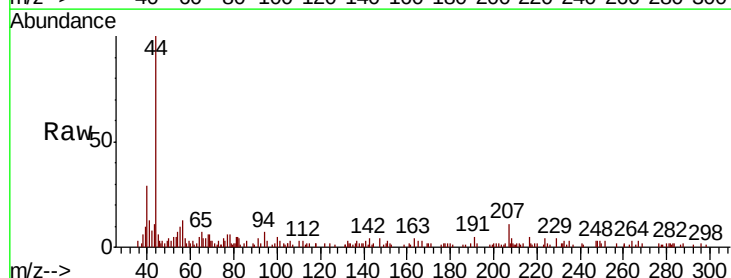
Instrument :
MSVOA_F
ClientSampleId :

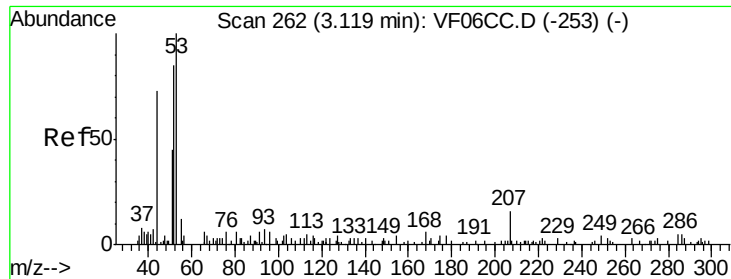
Tot Ion: 59 Resp: 1308
Ion Ratio Lower Upper
59 100
57 126.6 9.2 13.8#



#13
Acrolein
Concen: 4.089 ug/l
RT: 2.07 min Scan# 156
Delta R.T. -0.04 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

Tgt Ion: 56 Resp: 859
Ion Ratio Lower Upper
56 100
55 74.8 52.9 79.3





#15

Acrylonitrile

Concen: 3.927 ug/l

RT: 3.10 min Scan# 260

Delta R.T. -0.02 min

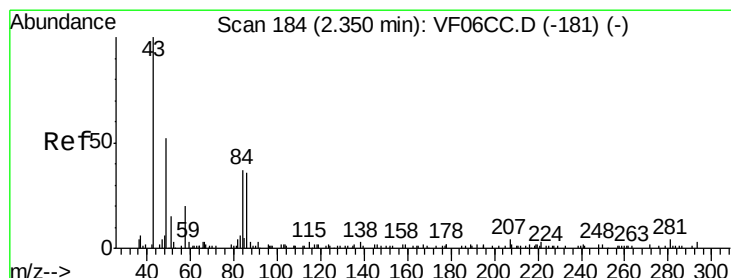
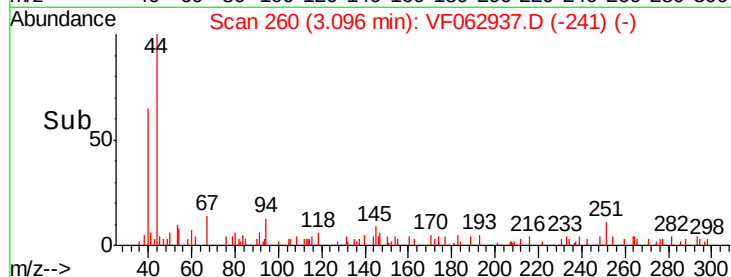
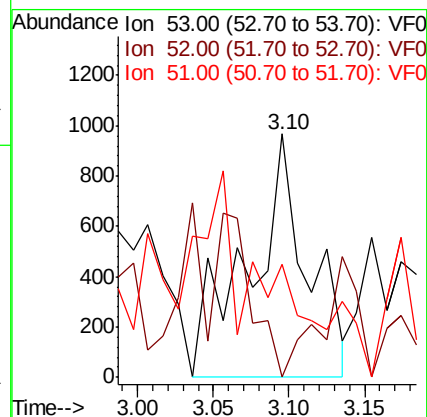
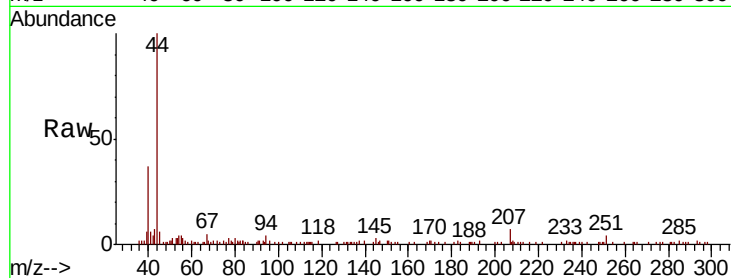
Lab File: VF062937.D

Acq: 12 Jun 2019 19:40

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 53 Resp: 2614

Ion	Ratio	Lower	Upper
53	100		
52	0.0	68.1	102.1#
51	46.5	27.7	41.5#



#16

Acetone

Concen: 52.069 ug/l

RT: 2.36 min Scan# 185

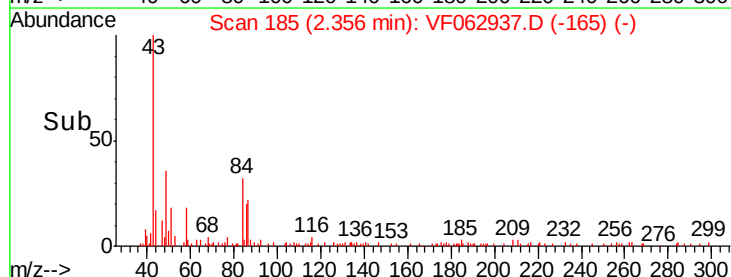
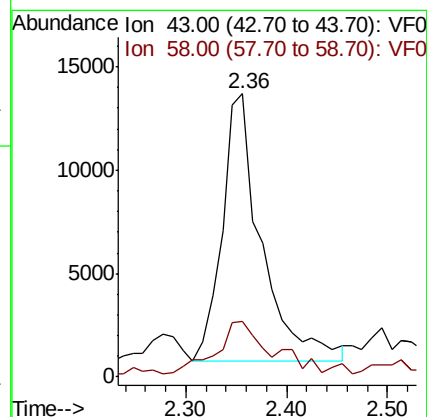
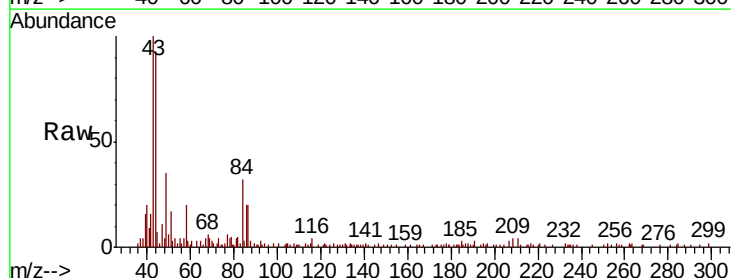
Delta R.T. -0.01 min

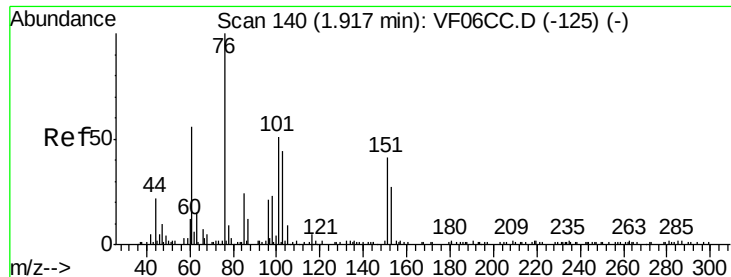
Lab File: VF062937.D

Acq: 12 Jun 2019 19:40

Tgt Ion: 43 Resp: 34850

Ion	Ratio	Lower	Upper
43	100		
58	19.8	19.0	28.4

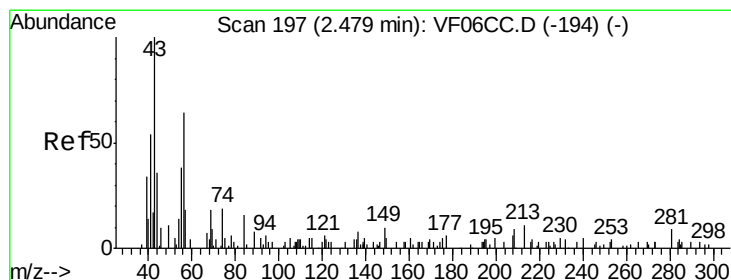
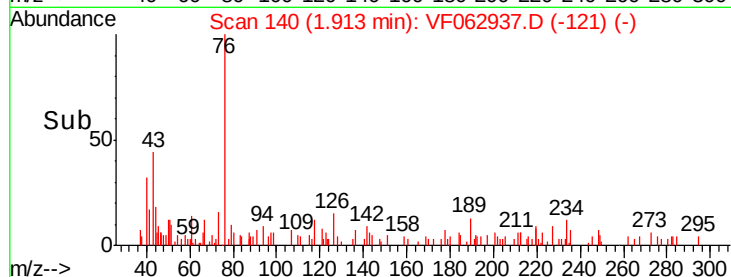
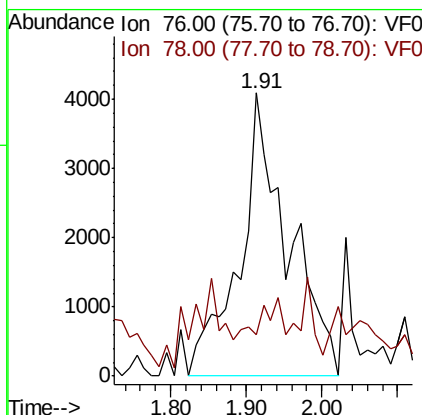
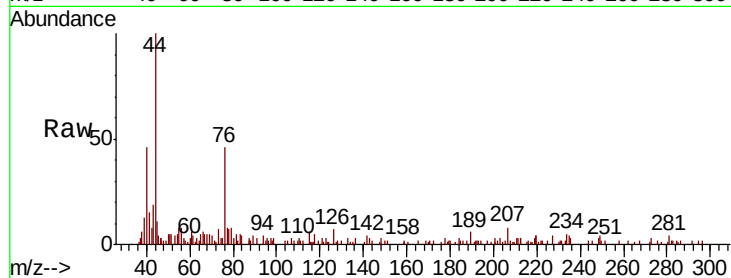




#17
Carbon Disulfide
Concen: 1.778 ug/l
RT: 1.91 min Scan# 140
Delta R.T. -0.02 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

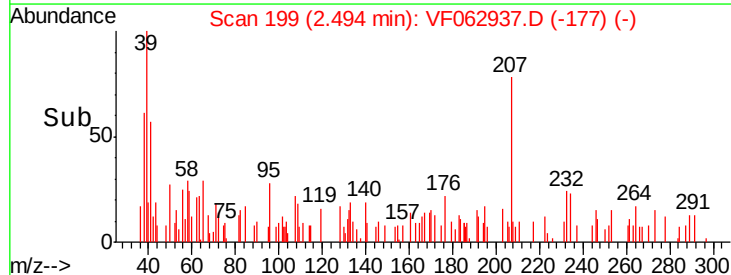
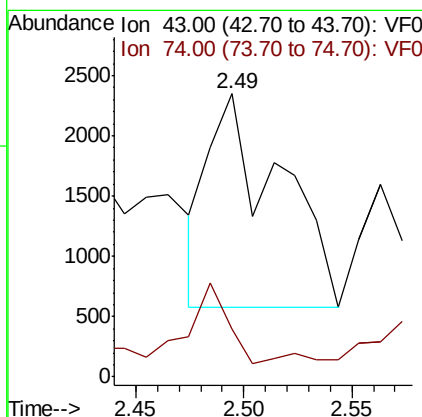
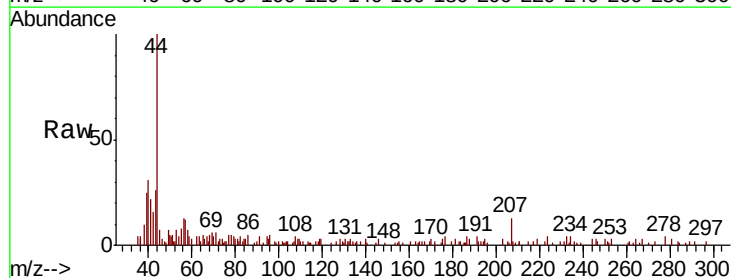
Instrument :
MSVOA_F
ClientSampleId :

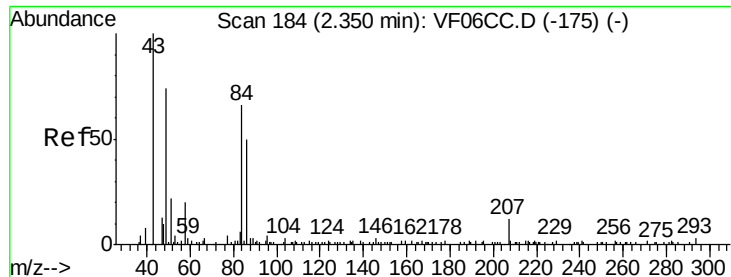
Tot Ion: 76 Resp: 18265
Ion Ratio Lower Upper
76 100
78 14.8 9.4 14.2#



#18
Methyl Acetate
Concen: 3.491 ug/l
RT: 2.49 min Scan# 199
Delta R.T. 0.01 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

Tgt Ion: 43 Resp: 4083
Ion Ratio Lower Upper
43 100
74 16.9 22.1 33.1#

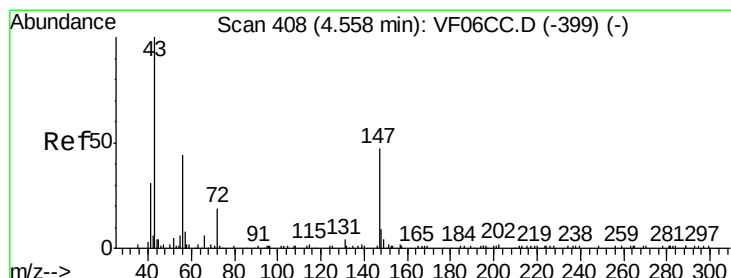
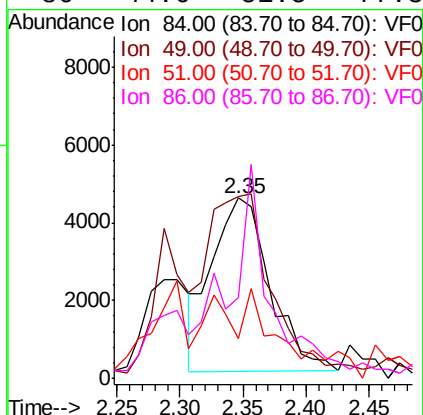
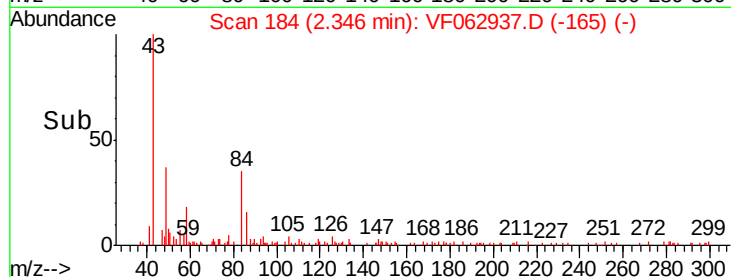
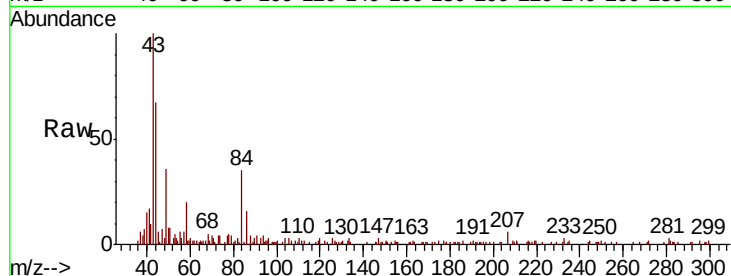




#20
Methylene Chloride
Concen: 1.327 ug/l
RT: 2.35 min Scan# 184
Delta R.T. -0.02 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

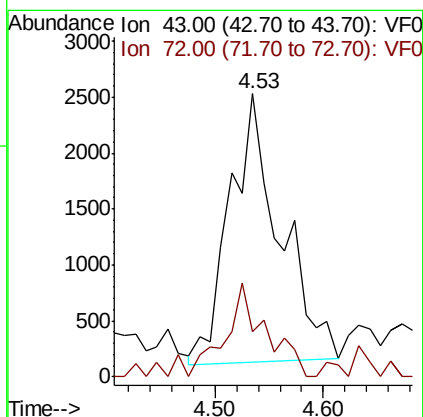
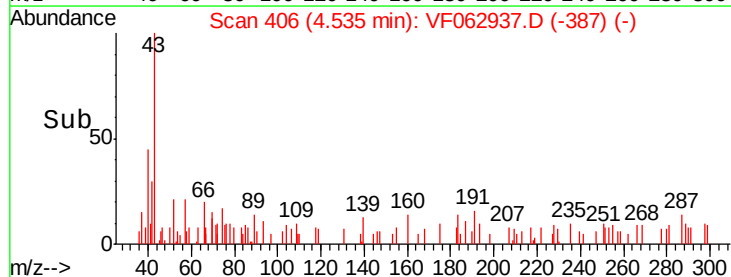
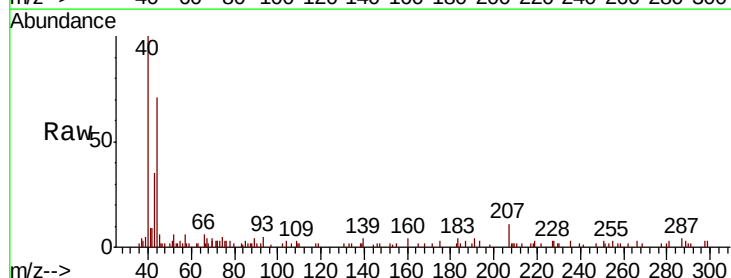
Instrument :
MSVOA_F
ClientSampled :

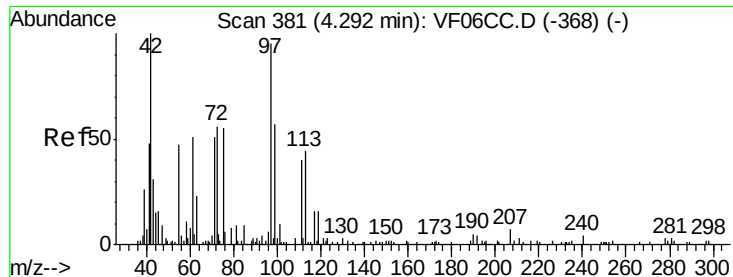
Tot Ion: 84 Resp: 14191
Ion Ratio Lower Upper
84 100
49 100.6 82.6 123.8
51 22.1 25.0 37.4#
86 44.6 51.5 77.3#



#25
2-Butanone
Concen: 4.953 ug/l
RT: 4.53 min Scan# 406
Delta R.T. -0.02 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

Tgt Ion: 43 Resp: 7720
Ion Ratio Lower Upper
43 100
72 16.2 21.4 32.0#





#29

Tetrahydrofuran

Concen: 1.030 ug/l

RT: 4.37 min Scan# 389

Delta R.T. 0.07 min

Lab File: VF062937.D

Acq: 12 Jun 2019 19:40

Instrument :

MSVOA_F

ClientSampled :

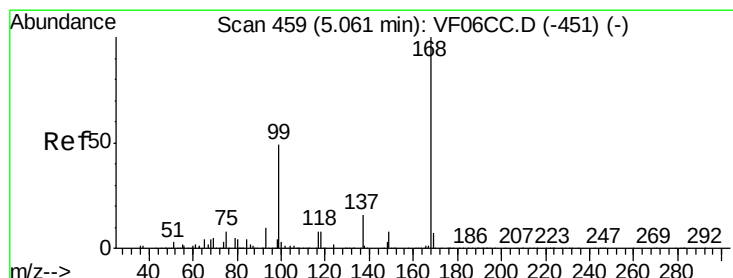
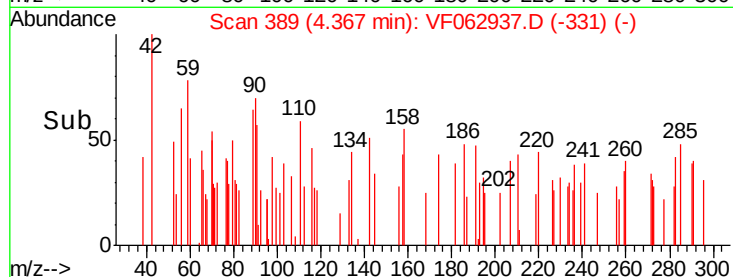
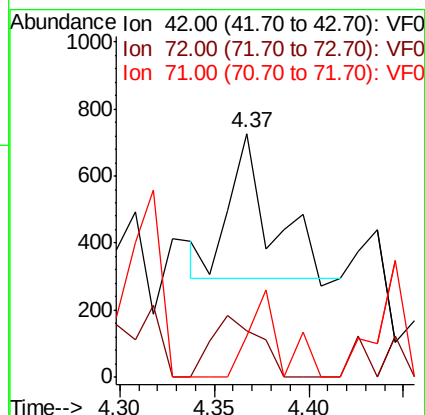
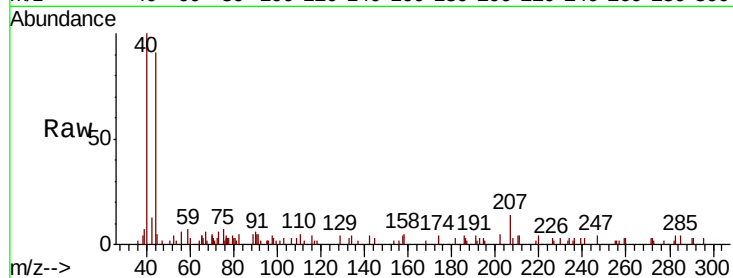
Tot Ion: 42 Resp: 614

Ion Ratio Lower Upper

42 100

72 52.1 39.0 58.6

71 49.8 36.9 55.3



#33

1,2-Dichloroethane-d4

Concen: 55.789 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.03 min

Lab File: VF062937.D

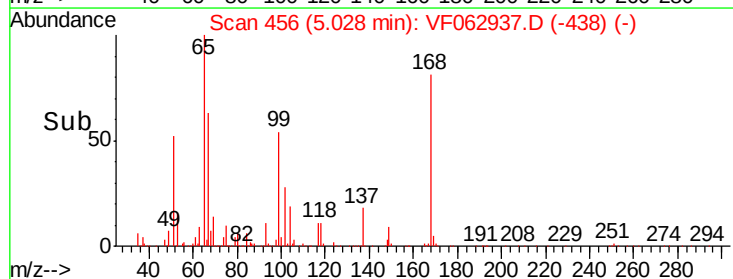
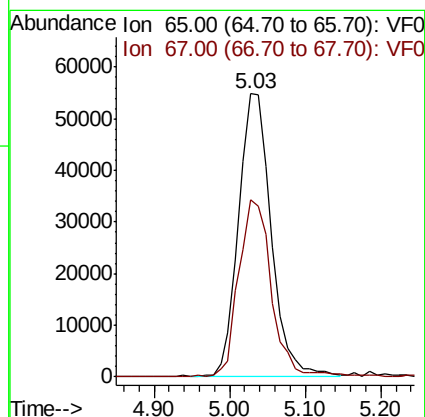
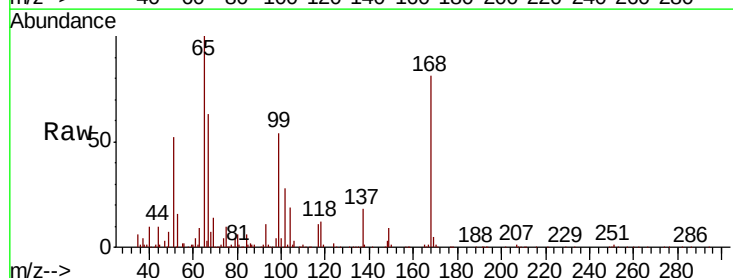
Acq: 12 Jun 2019 19:40

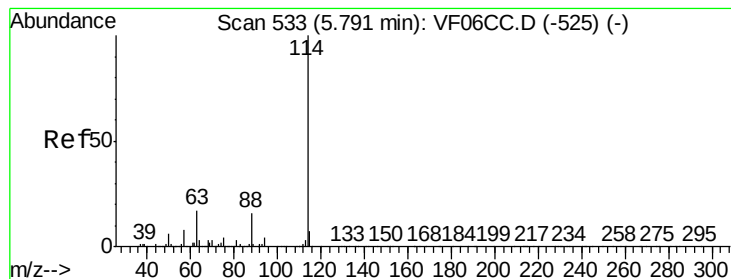
Tgt Ion: 65 Resp: 163146

Ion Ratio Lower Upper

65 100

67 62.6 0.0 121.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.03 min

Lab File: VF062937.D

Acq: 12 Jun 2019 19:40

Instrument :

MSVOA_F

ClientSampleId :

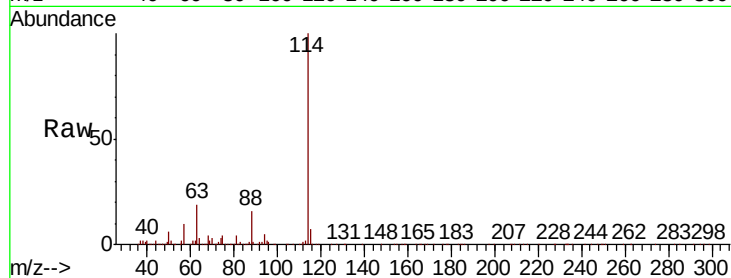
Tot Ion:114 Resp: 773421

Ion Ratio Lower Upper

114 100

63 19.4 0.0 34.2

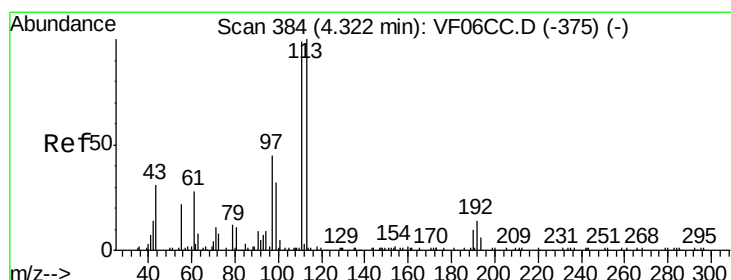
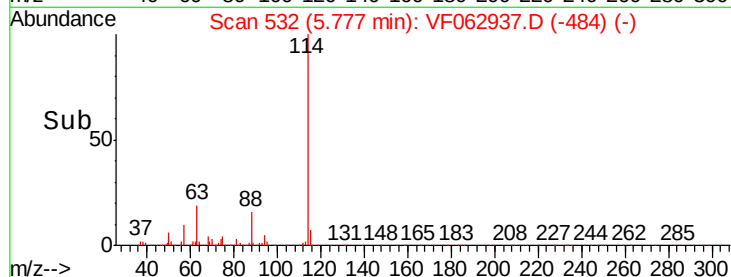
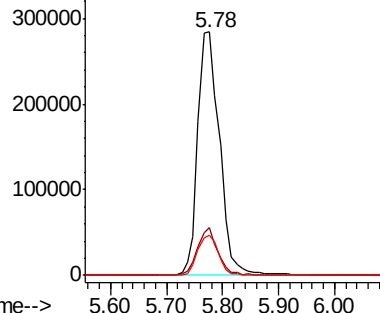
88 16.3 0.0 31.2



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: 0.750 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.03 min

Lab File: VF062937.D

Acq: 12 Jun 2019 19:40

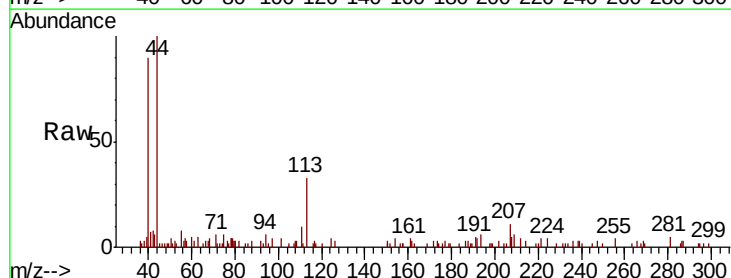
Tgt Ion:113 Resp: 4382

Ion Ratio Lower Upper

113 100

111 35.3 81.9 122.9#

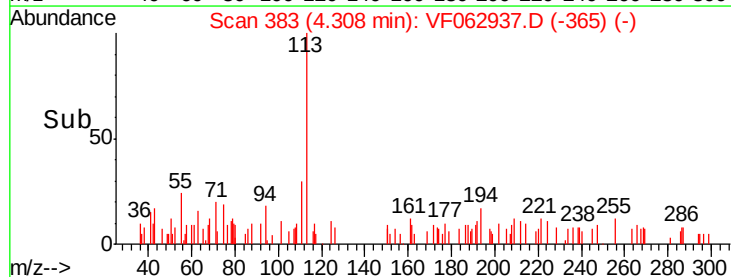
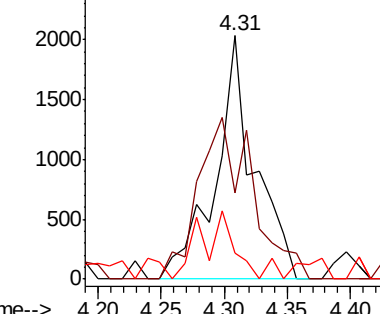
192 10.7 15.1 22.7#

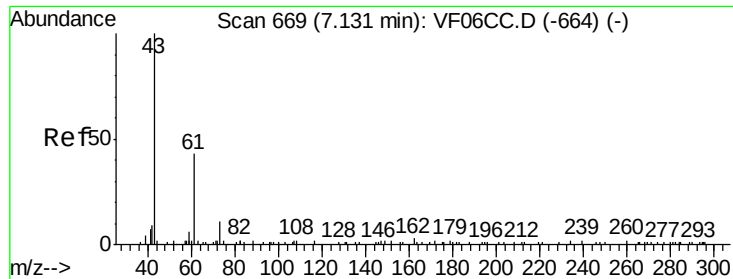


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

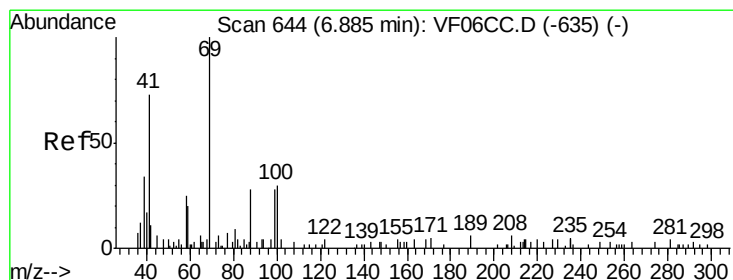
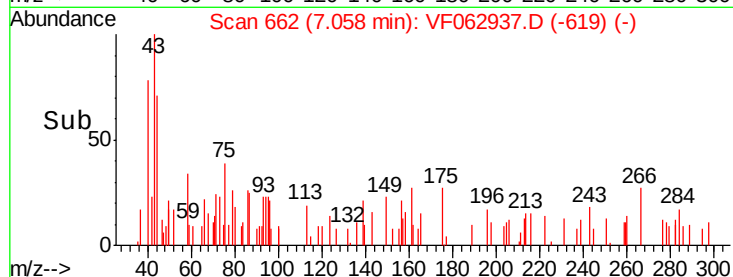
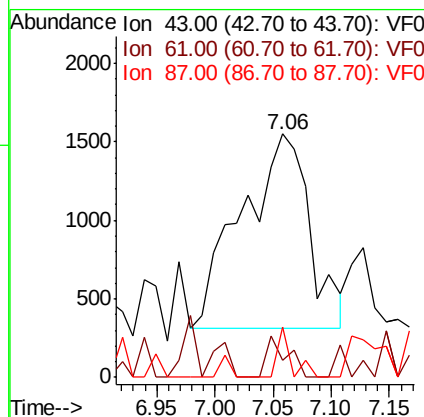
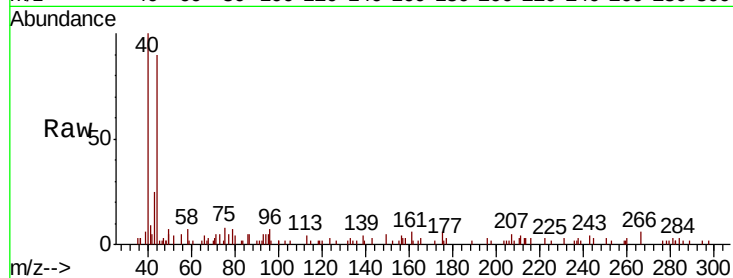




#43
Isopropyl Acetate
Concen: 1.401 ug/l
RT: 7.06 min Scan# 662
Delta R.T. -0.08 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

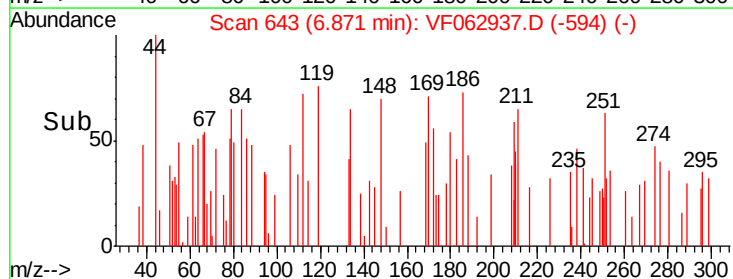
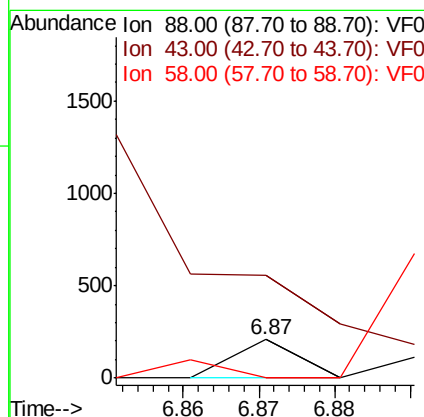
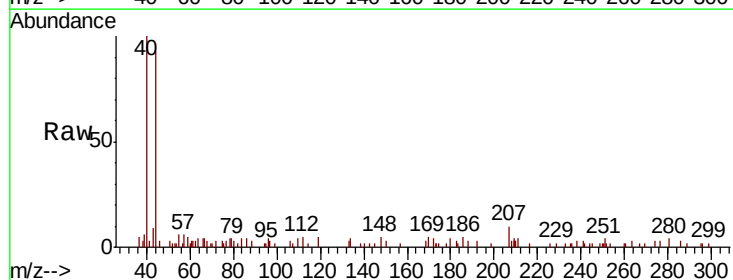
Instrument :
MSVOA_F
ClientSampleId :

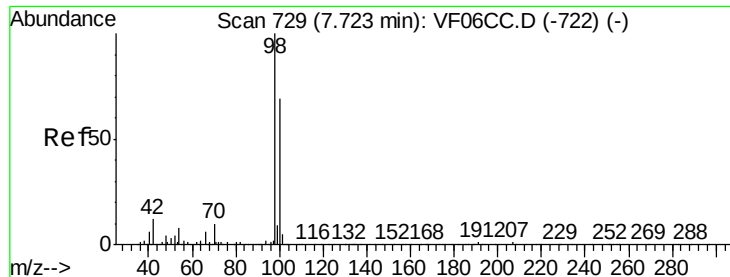
Tot Ion: 43 Resp: 5039
Ion Ratio Lower Upper
43 100
61 7.2 29.8 44.6#
87 20.4 0.3 0.5#



#49
1,4-Dioxane
Concen: 5.036 ug/l
RT: 6.87 min Scan# 643
Delta R.T. -0.02 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

Tgt Ion: 88 Resp: 123
Ion Ratio Lower Upper
88 100
43 268.3 34.8 52.2#
58 0.0 59.9 89.9#

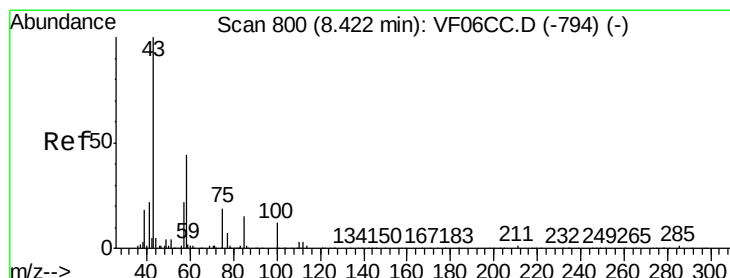
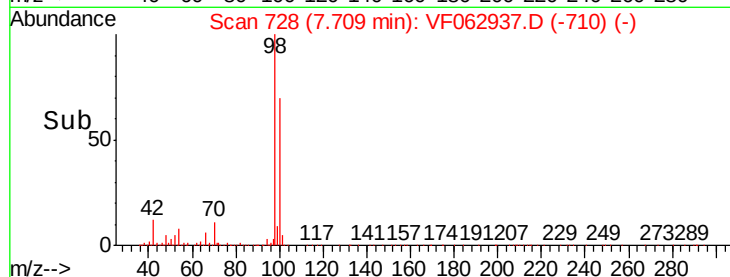
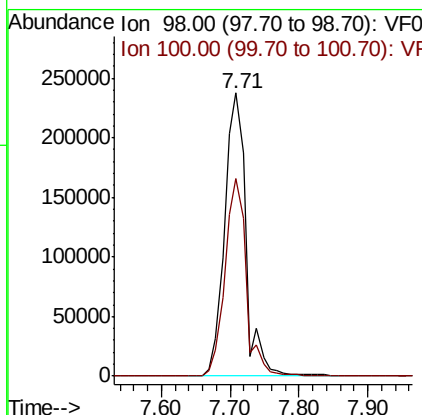
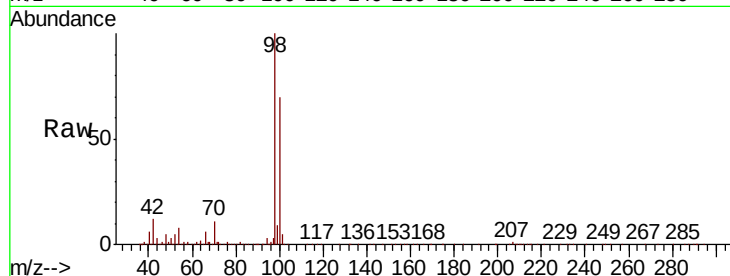




#50
Toluene-d8
Concen: 34.442 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.03 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

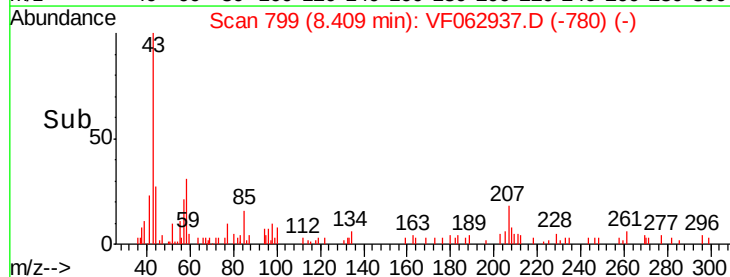
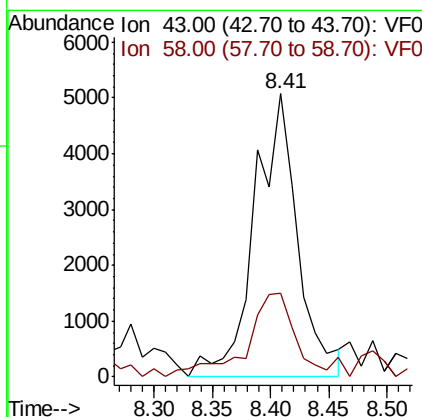
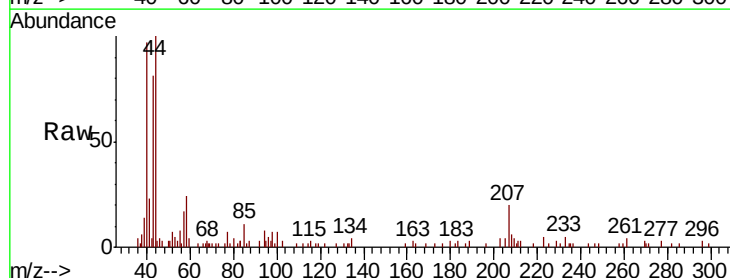
Instrument :
MSVOA_F
ClientSampleId :

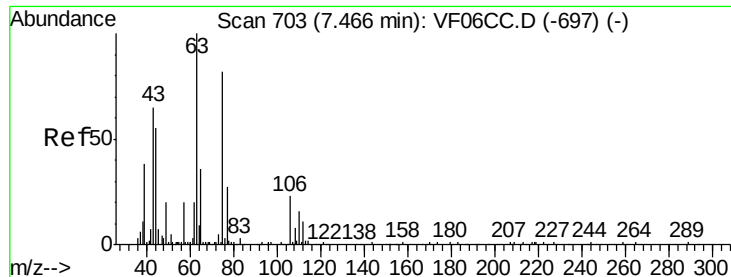
Tot Ion: 98 Resp: 509015
Ion Ratio Lower Upper
98 100
100 69.6 59.8 89.8



#51
4-Methyl-2-Pentanone
Concen: 5.084 ug/l
RT: 8.41 min Scan# 799
Delta R.T. -0.02 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

Tgt Ion: 43 Resp: 13051
Ion Ratio Lower Upper
43 100
58 29.6 35.5 53.3#





#58

2-Chloroethyl Vinyl ether

Concen: 1.119 ug/l

RT: 7.45 min Scan# 702

Delta R.T. -0.02 min

Lab File: VF062937.D

Acq: 12 Jun 2019 19:40

Instrument :

MSVOA_F

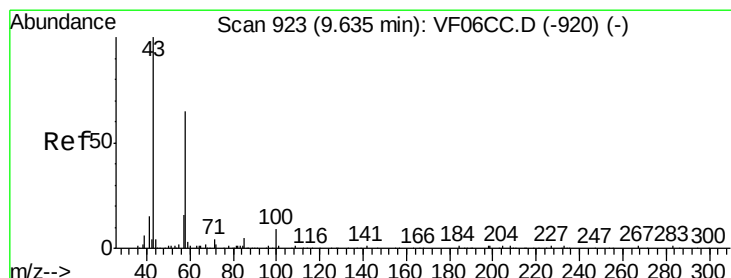
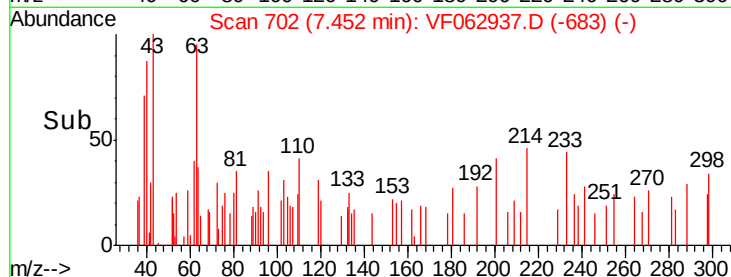
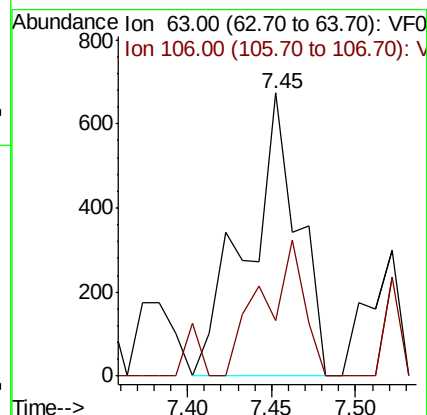
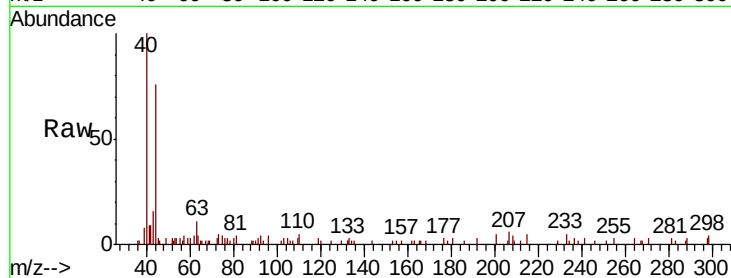
ClientSampleId :

Tot Ion: 63 Resp: 1399

Ion Ratio Lower Upper

63 100

106 19.8 19.5 29.3



#59

2-Hexanone

Concen: 8.641 ug/l

RT: 9.60 min Scan# 920

Delta R.T. -0.04 min

Lab File: VF062937.D

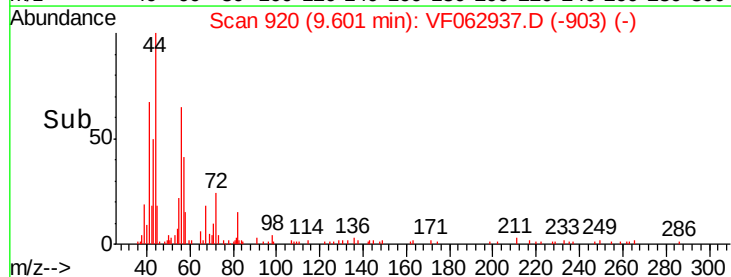
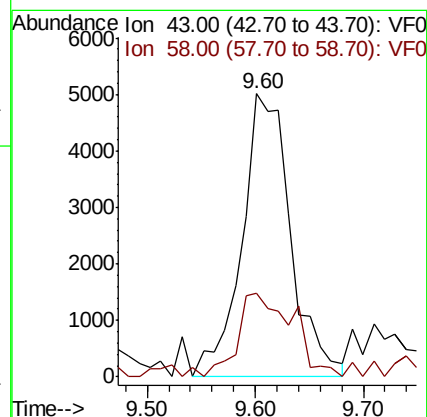
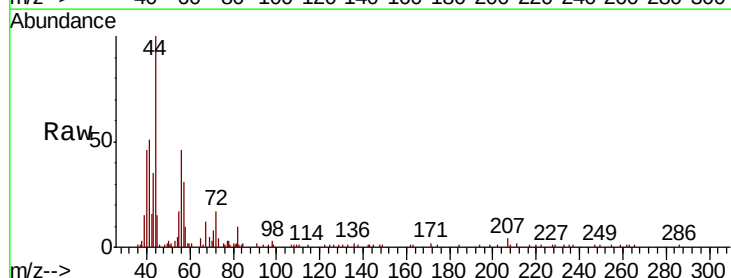
Acq: 12 Jun 2019 19:40

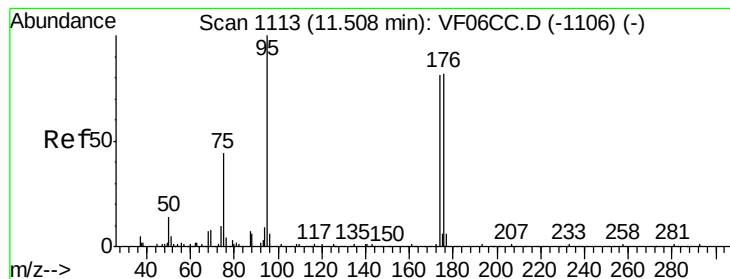
Tgt Ion: 43 Resp: 15809

Ion Ratio Lower Upper

43 100

58 29.6 29.3 87.9





#62

4-Bromofluorobenzene

Concen: 32.987 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF062937.D

Acq: 12 Jun 2019 19:40

Instrument :

MSVOA_F

ClientSampled :

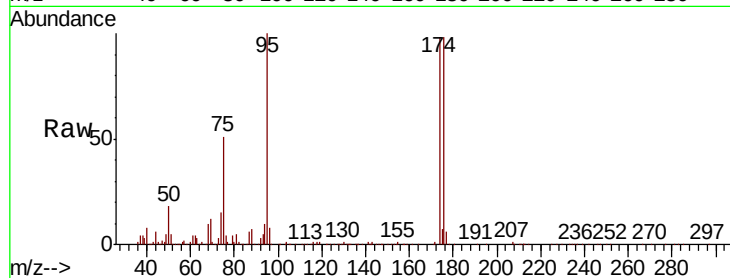
Tot Ion: 95 Resp: 175365

Ion Ratio Lower Upper

95 100

174 98.0 0.0 170.6

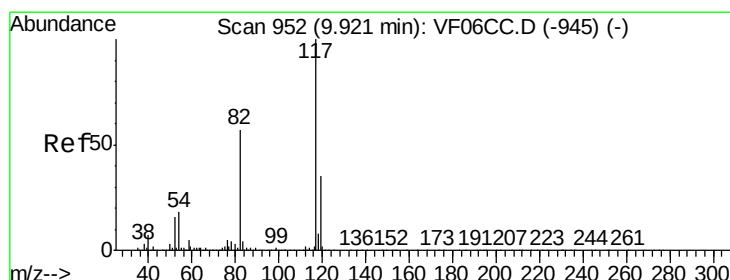
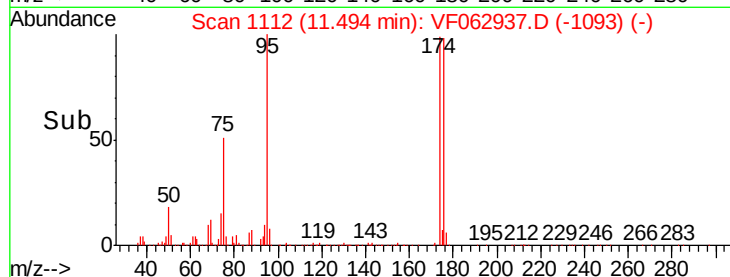
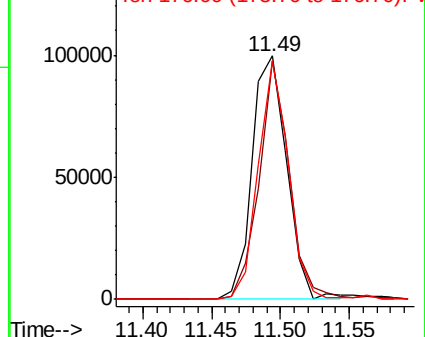
176 97.8 0.0 170.6



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: 9.91 min Scan# 951

Delta R.T. -0.03 min

Lab File: VF062937.D

Acq: 12 Jun 2019 19:40

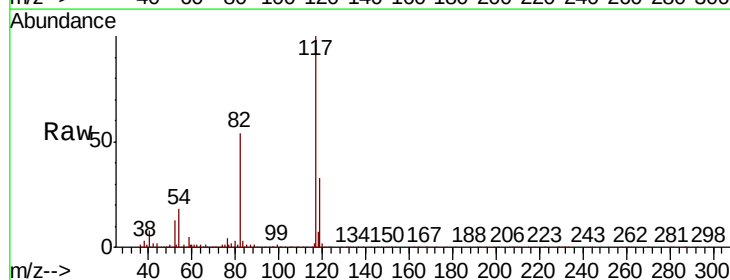
Tgt Ion: 117 Resp: 518539

Ion Ratio Lower Upper

117 100

82 54.1 42.4 63.6

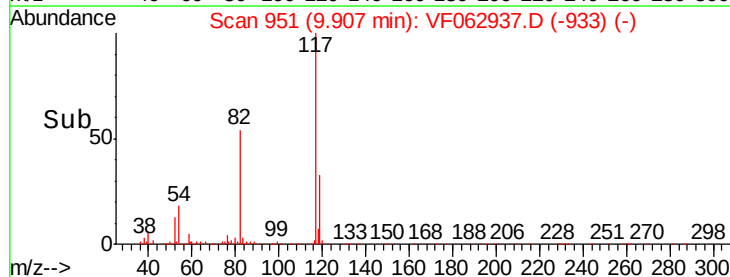
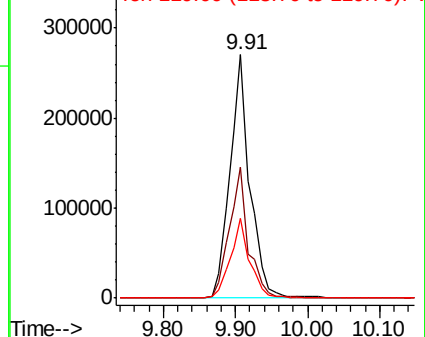
119 32.7 27.1 40.7

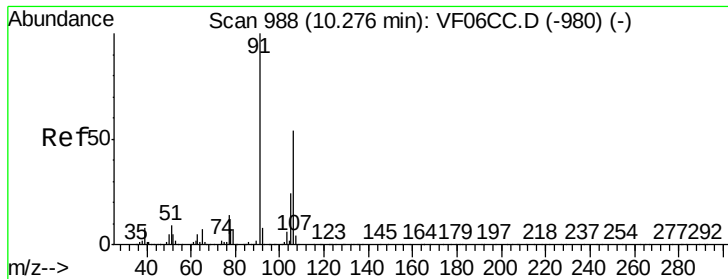


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

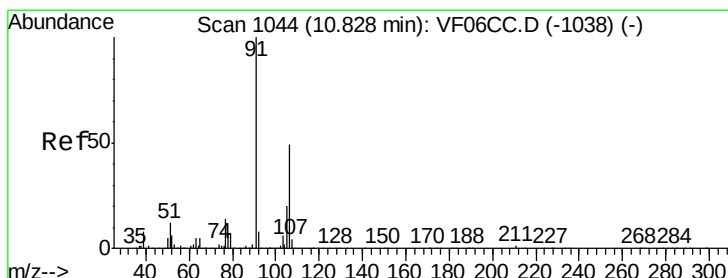
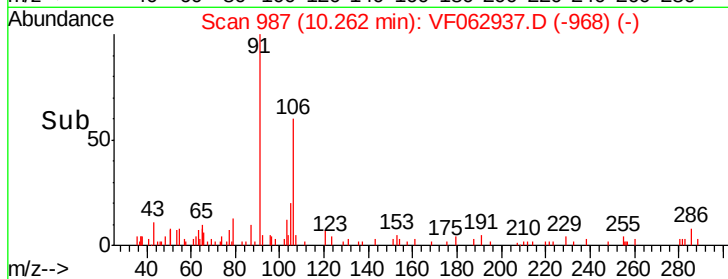
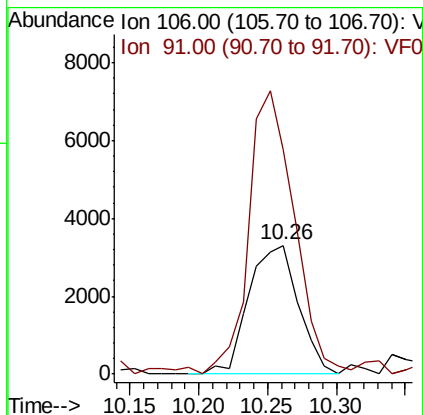
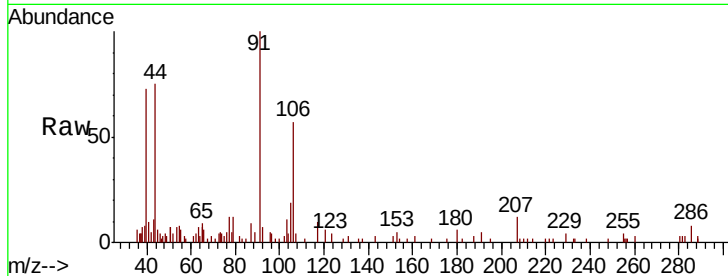




#68
m/p-Xylenes
Concen: 1.266 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.02 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

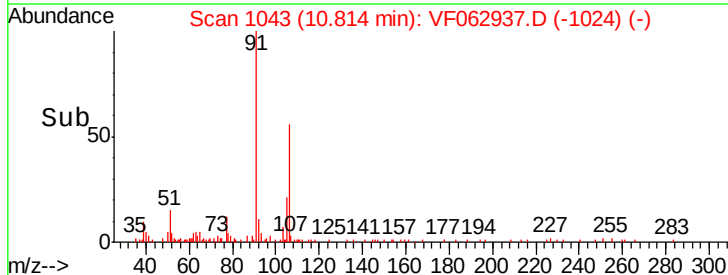
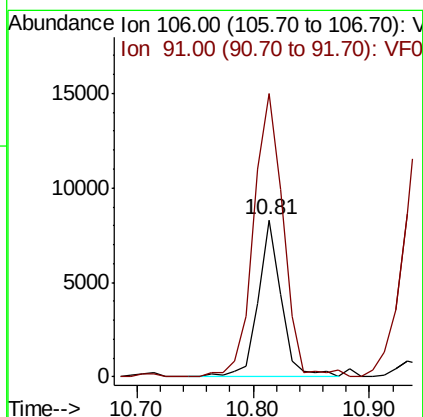
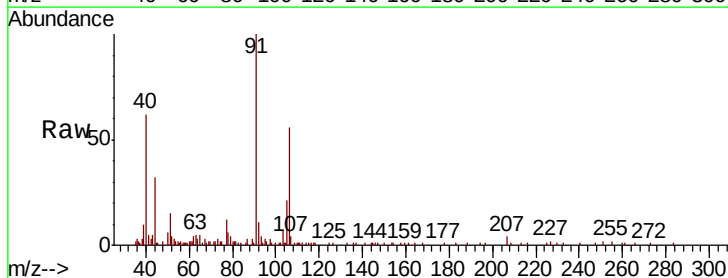
Instrument :
MSVOA_F
ClientSampleId :

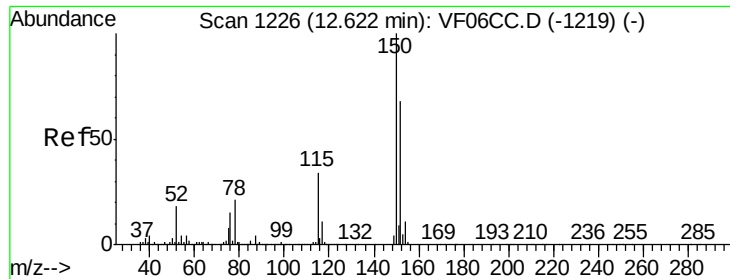
Tot Ion:106 Resp: 8322
Ion Ratio Lower Upper
106 100
91 174.0 136.2 204.4



#69
o-Xylene
Concen: 1.732 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. -0.02 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

Tgt Ion:106 Resp: 11529
Ion Ratio Lower Upper
106 100
91 180.1 96.6 289.8



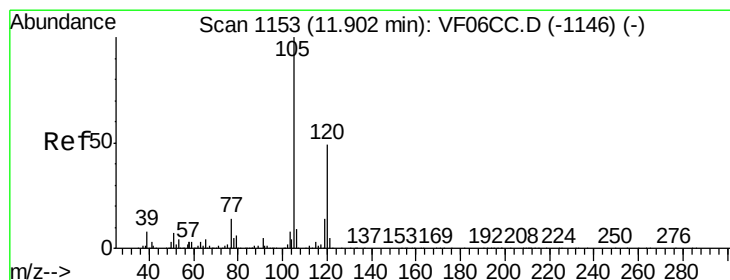
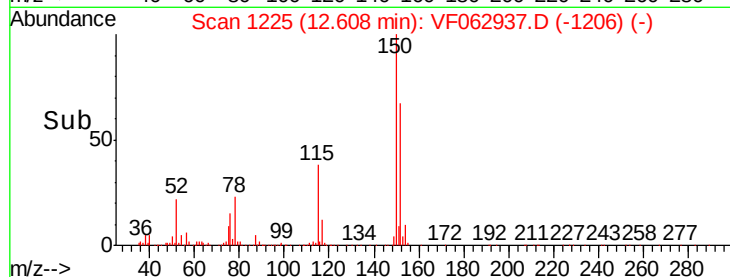
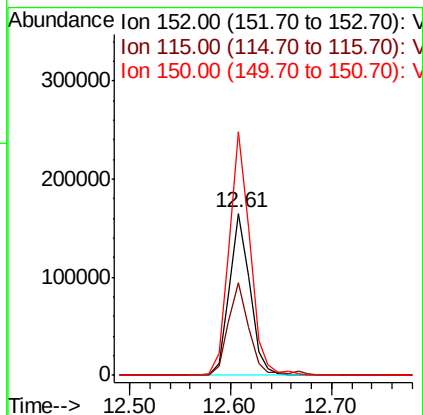
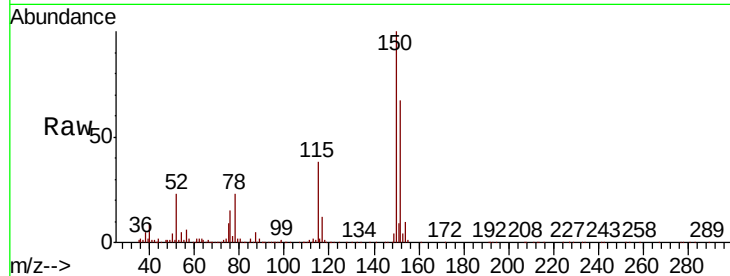


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

Instrument :
MSVOA_F
ClientSampleId :

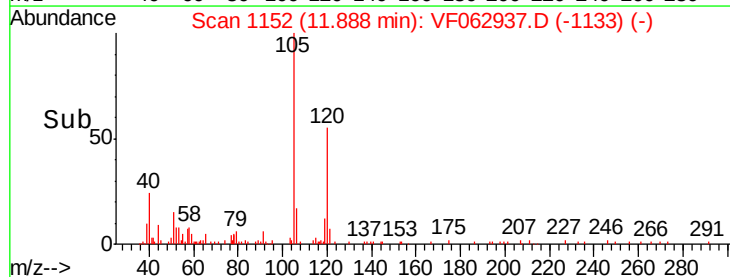
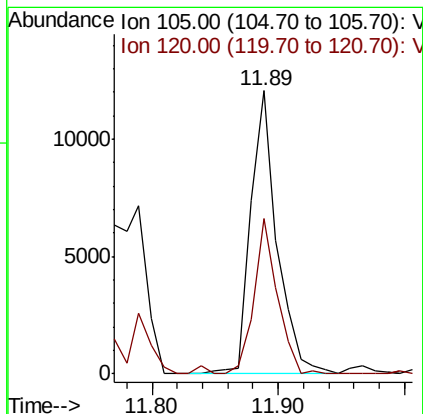
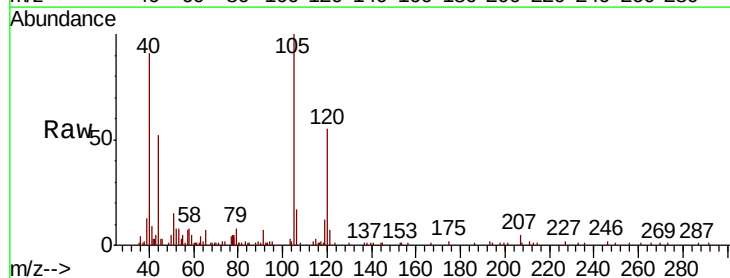
Tot Ion	Ratio	Lower	Upper
152	100		
115	57.5	24.6	74.0
150	150.3	0.0	290.6

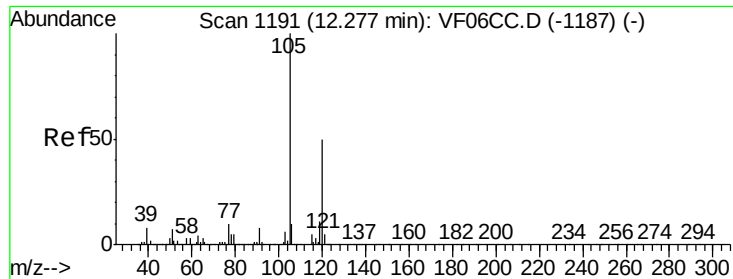


#80

1,3,5-Trimethylbenzene
Concen: 1.310 ug/l
RT: 11.89 min Scan# 1152
Delta R.T. -0.02 min
Lab File: VF062937.D
Acq: 12 Jun 2019 19:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	54.8	28.7	86.1





#84

1,2,4-Trimethylbenzene

Concen: 5.094 ug/l

RT: 12.26 min Scan# 1190

Delta R.T. -0.02 min

Lab File: VF062937.D

Acq: 12 Jun 2019 19:40

Instrument :

MSVOA_F

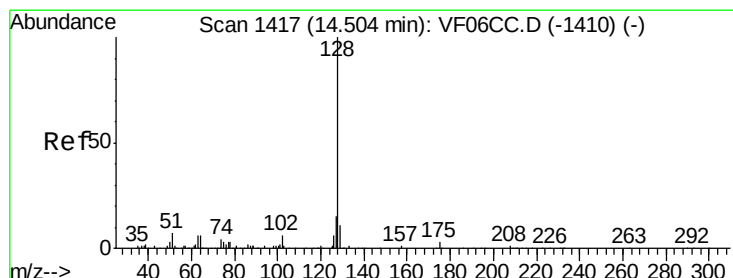
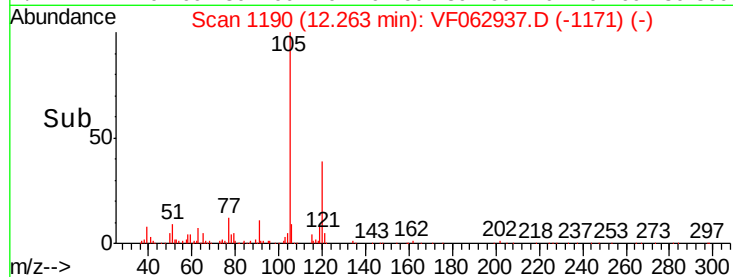
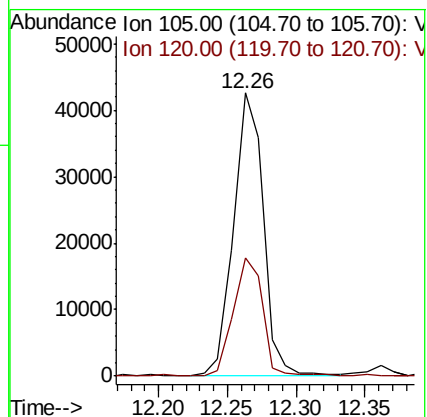
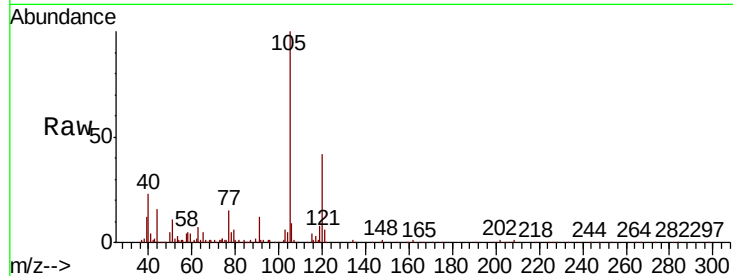
ClientSampleId :

Tot Ion:105 Resp: 64483

Ion Ratio Lower Upper

105 100

120 41.7 27.1 81.3



#95

Naphthalene

Concen: 2.329 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.02 min

Lab File: VF062937.D

Acq: 12 Jun 2019 19:40

Tgt Ion:128 Resp: 16659

Ion Ratio Lower Upper

128 100

127 10.2 9.7 14.5

129 12.0 9.4 14.2

