

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060419\
 Data File : VF062840.D
 Acq On : 4 Jun 2019 15:52
 Operator : FY/SY
 Sample : K3171-02
 Misc : 4.02g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 05 05:21:01 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	5.06	168	160918	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.78	114	229513	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	131951	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	32924	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	24951	22.42	ug/l	-0.01
Spiked Amount			Recovery	=	44.84%	
35) Dibromofluoromethane	4.31	113	21135	12.19	ug/l	-0.02
Spiked Amount			Recovery	=	24.38%	
50) Toluene-d8	7.71	98	155632	35.49	ug/l	-0.02
Spiked Amount			Recovery	=	70.98%	
62) 4-Bromofluorobenzene	11.50	95	39336	24.93	ug/l	-0.01
Spiked Amount			Recovery	=	49.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	1657	Below Cal		72
3) Chloromethane	1.14	50	2225	1.336	ug/l	96
4) Vinyl Chloride	1.21	62	2760	1.668	ug/l #	42
5) Bromomethane	1.33	94	1098	1.164	ug/l	97
6) Chloroethane	1.48	64	675	1.091	ug/l #	71
8) Diethyl Ether	1.72	74	2109	4.576	ug/l	57
11) Tert butyl alcohol	2.71	59	625	9.272	ug/l #	70
13) Acrolein	2.01	56	965	28.587	ug/l	88
14) Allyl chloride	2.20	41	2097	2.021	ug/l #	51
15) Acrylonitrile	3.08	53	503	1.986	ug/l #	42
16) Acetone	2.35	43	7491	29.413	ug/l #	50
18) Methyl Acetate	2.46	43	1018	2.287	ug/l #	62
19) Methyl tert-butyl Ether	2.56	73	3237	1.336	ug/l #	61
20) Methylene Chloride	2.30	84	10300	5.413	ug/l #	68
21) trans-1,2-Dichloroethene	2.44	96	4372	3.261	ug/l #	51
22) Diisopropyl ether	2.94	45	7130	2.419	ug/l #	77
26) 2,2-Dichloropropane	3.89	77	1357	1.086	ug/l	89
28) Bromochloromethane	3.89	49	1561	1.304	ug/l #	70
29) Tetrahydrofuran	4.27	42	637	2.808	ug/l #	43
37) Ethyl Acetate	4.32	43	3718	4.603	ug/l #	63
39) Methylcyclohexane	5.66	83	4138	1.574	ug/l #	84
43) Isopropyl Acetate	7.11	43	2384	2.234	ug/l #	38
44) Trichloroethene	5.69	130	1768	1.019	ug/l	81
46) Dibromomethane	6.27	93	1050	1.165	ug/l #	32
48) Methyl methacrylate	6.88	41	1506	2.739	ug/l #	41
49) 1,4-Dioxane	6.87	88	601	82.921	ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	12050	15.819	ug/l #	77
52) Toluene	7.79	92	4667	1.409	ug/l	92
55) 1,1,2-Trichloroethane	8.63	97	1195	1.208	ug/l #	43
56) Ethyl methacrylate	8.76	69	2853	2.687	ug/l #	44
58) 2-Chloroethyl Vinyl ether	7.43	63	641	1.728	ug/l #	87
59) 2-Hexanone	9.63	43	12873	23.710	ug/l	97
64) Tetrachloroethene	8.31	164	1997	1.970	ug/l #	75
65) Chlorobenzene	9.94	112	3270	1.283	ug/l #	28

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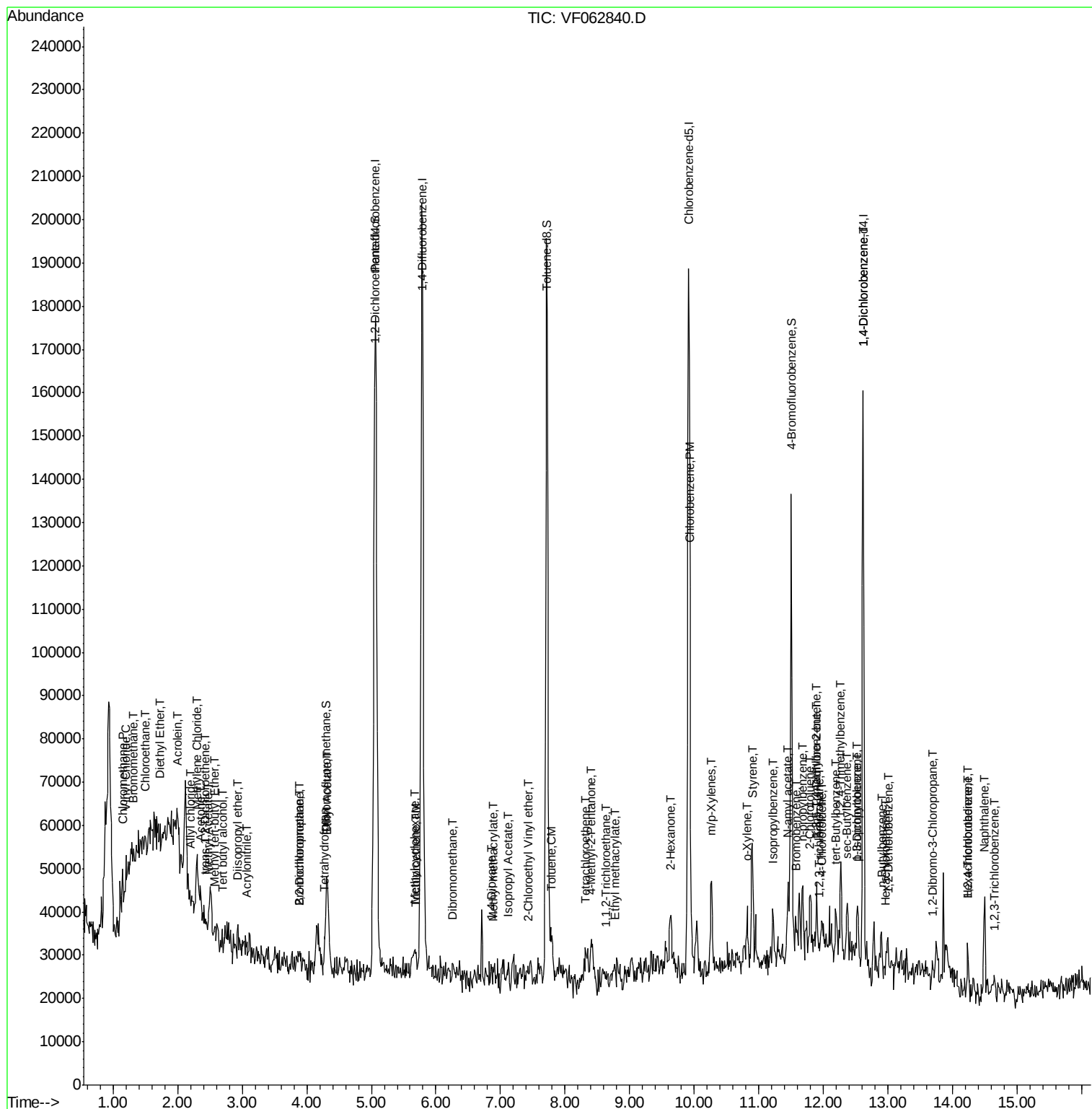
68) m/p-Xylenes	10.27	106	8710	5.205	ug/l	95
69) o-Xylene	10.83	106	3347	1.976	ug/l	99
70) Styrene	10.89	104	16661	6.672	ug/l #	85
73) Isopropylbenzene	11.22	105	7192	3.131	ug/l	91
74) N-amyl acetate	11.45	43	15102	23.324	ug/l #	91
76) 1,2,3-Trichloropropane	11.93	75	445	1.368	ug/l	81
77) Bromobenzene	11.58	156	1540	2.668	ug/l	95
78) n-propylbenzene	11.68	91	12284	4.429	ug/l	96
79) 2-Chlorotoluene	11.79	91	5046	3.179	ug/l	86
80) 1,3,5-Trimethylbenzene	11.89	105	6743	3.589	ug/l	80
81) trans-1,4-Dichloro-2-buten	11.89	75	1544	11.215	ug/l	88
82) 4-Chlorotoluene	11.97	91	5007	3.210	ug/l	73
83) tert-Butylbenzene	12.20	119	4016	2.157	ug/l #	46
84) 1,2,4-Trimethylbenzene	12.27	105	9934	5.577	ug/l	73
85) sec-Butylbenzene	12.38	105	7959	3.245	ug/l	95
86) p-Isopropyltoluene	12.52	119	7013	3.435	ug/l	88
87) 1,3-Dichlorobenzene	12.53	146	2916	2.864	ug/l #	78
88) 1,4-Dichlorobenzene	12.62	146	2698	2.840	ug/l #	68
89) n-Butylbenzene	12.90	91	4518	2.200	ug/l #	56
90) Hexachloroethane	12.97	117	1298	2.607	ug/l	74
91) 1,2-Dichlorobenzene	13.00	146	2118	2.367	ug/l	80
92) 1,2-Dibromo-3-Chloropropan	13.68	75	471	8.812	ug/l #	27
93) 1,2,4-Trichlorobenzene	14.24	180	1420	2.311	ug/l	83
94) Hexachlorobutadiene	14.23	225	511	1.202	ug/l #	36
95) Naphthalene	14.50	128	14294	14.202	ug/l #	92
96) 1,2,3-Trichlorobenzene	14.64	180	1156	2.061	ug/l #	81

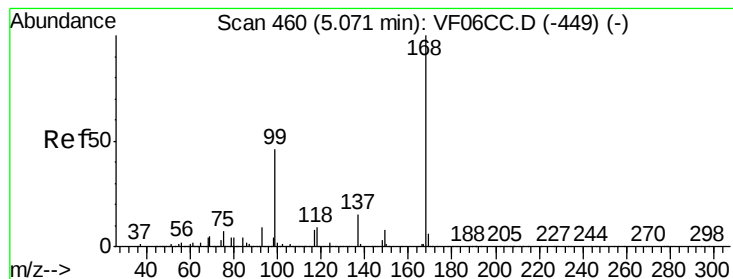
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :

MSVOA_F

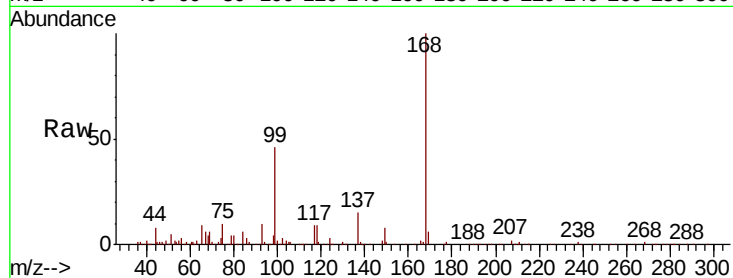
ClientSampleId :

Tot Ion:168 Resp: 160918

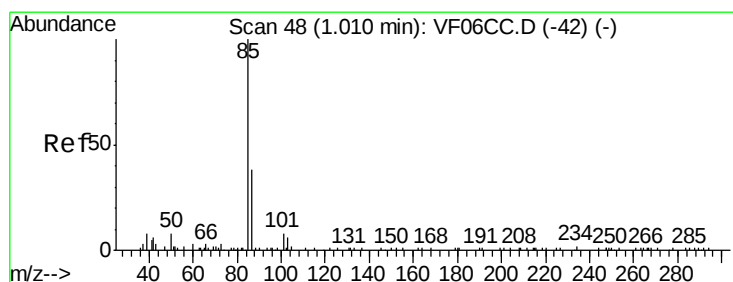
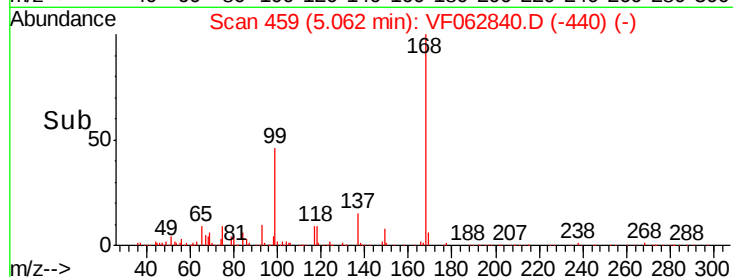
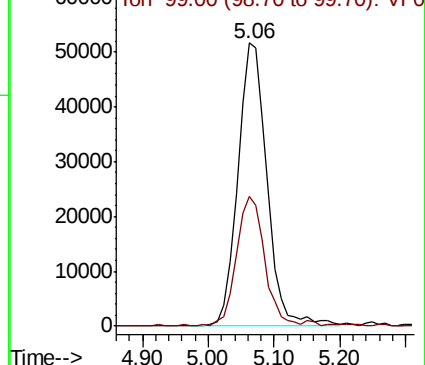
Ion Ratio Lower Upper

168 100

99 45.7 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.01 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062840.D

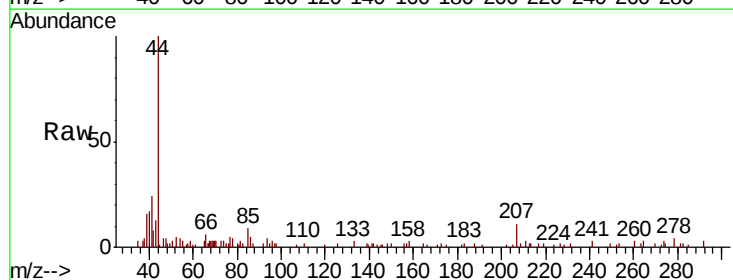
Acq: 4 Jun 2019 15:52

Tgt Ion: 85 Resp: 1657

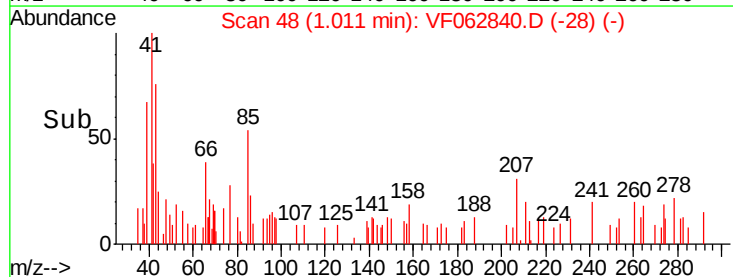
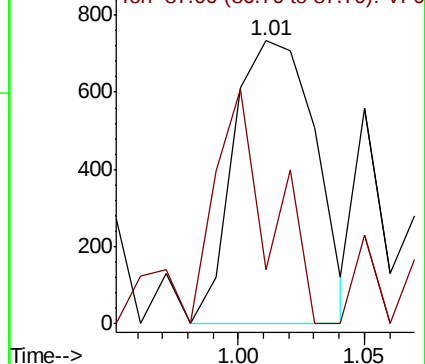
Ion Ratio Lower Upper

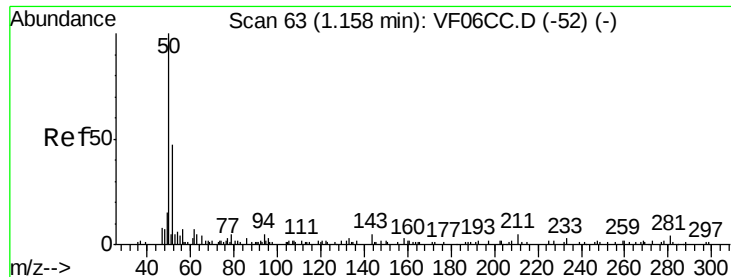
85 100

87 19.1 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 1.336 ug/l

RT: 1.14 min Scan# 61

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

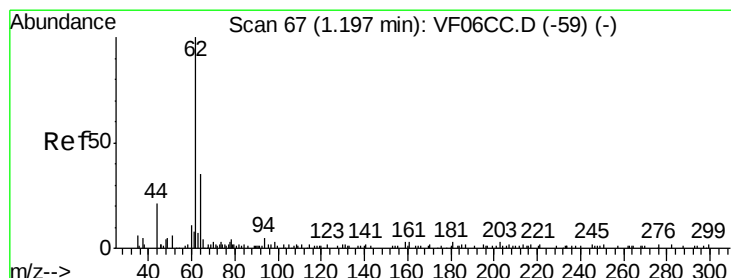
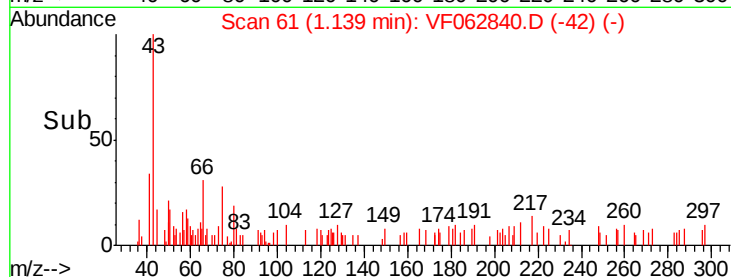
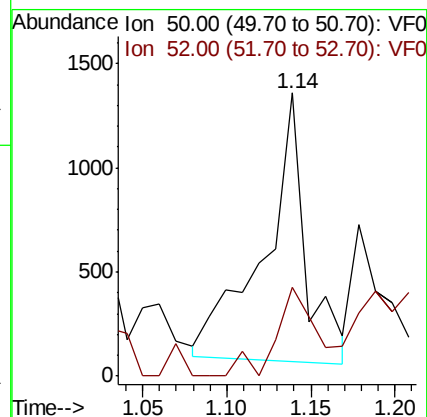
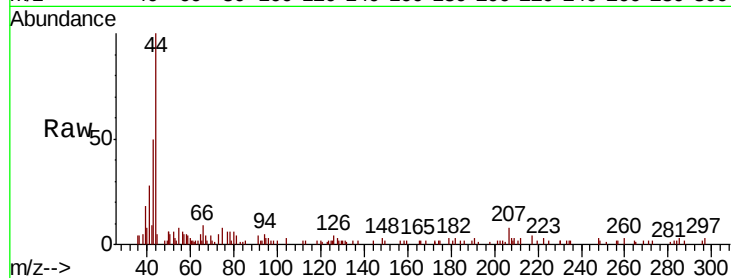
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 50 Resp: 2225

Ion Ratio Lower Upper

50 100

52 31.3 27.0 40.4



#4

Vinyl Chloride

Concen: 1.668 ug/l

RT: 1.21 min Scan# 68

Delta R.T. 0.01 min

Lab File: VF062840.D

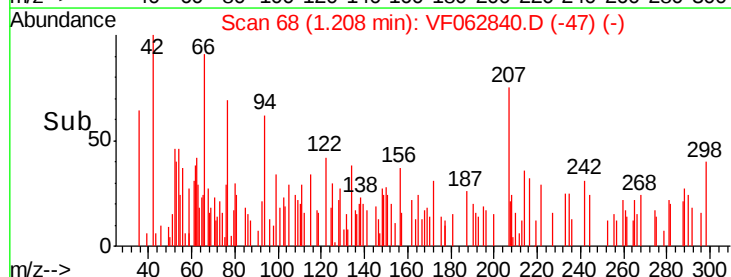
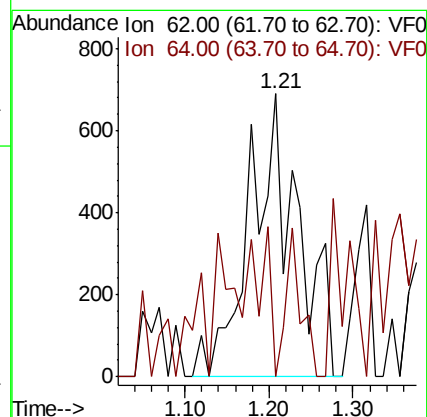
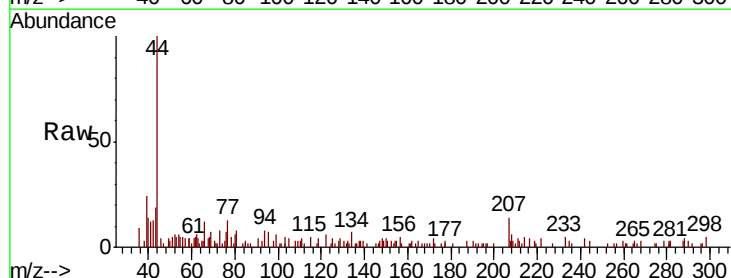
Acq: 4 Jun 2019 15:52

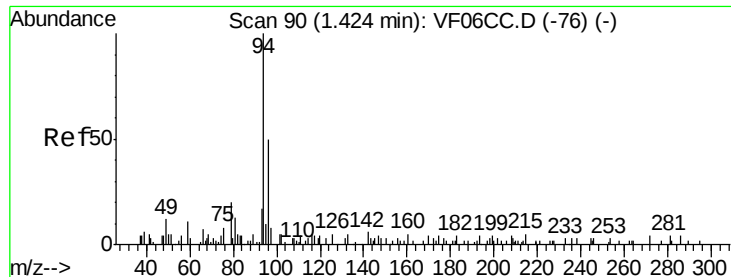
Tgt Ion: 62 Resp: 2760

Ion Ratio Lower Upper

62 100

64 0.0 26.2 39.2#





#5

Bromomethane

Concen: 1.164 ug/l

RT: 1.33 min Scan# 80

Delta R.T. -0.08 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

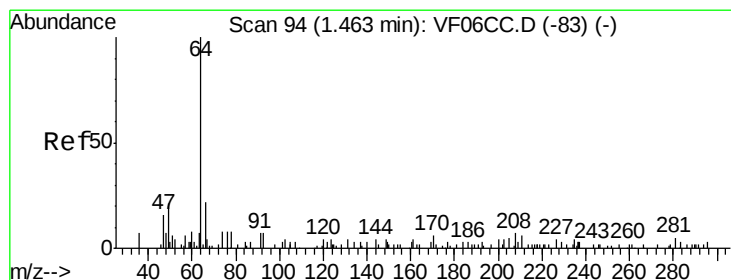
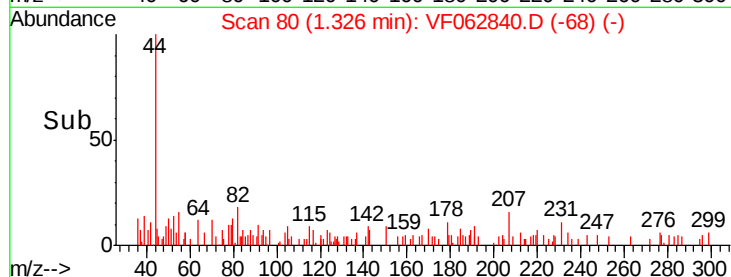
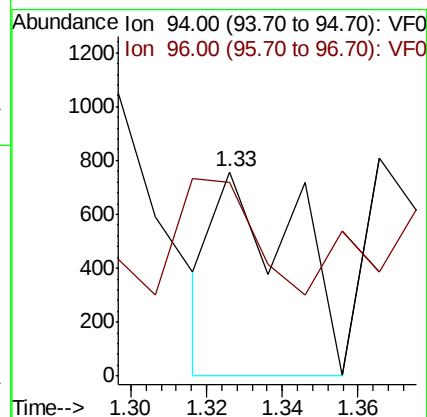
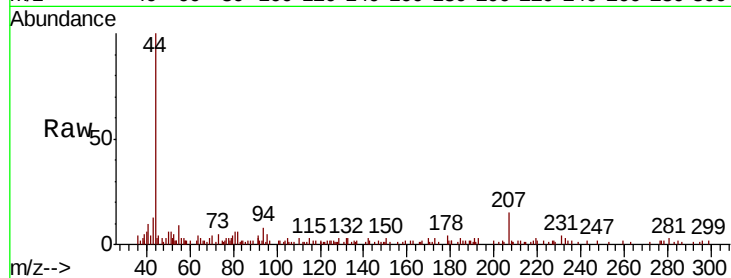
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 94 Resp: 1098

Ion Ratio Lower Upper

94 100

96 94.9 73.8 110.6



#6

Chloroethane

Concen: 1.091 ug/l

RT: 1.48 min Scan# 96

Delta R.T. 0.02 min

Lab File: VF062840.D

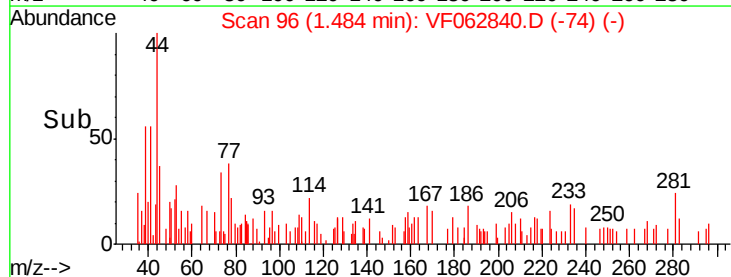
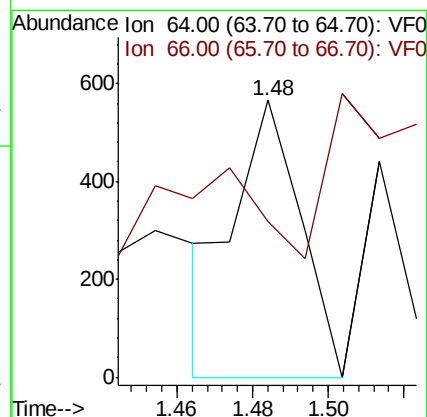
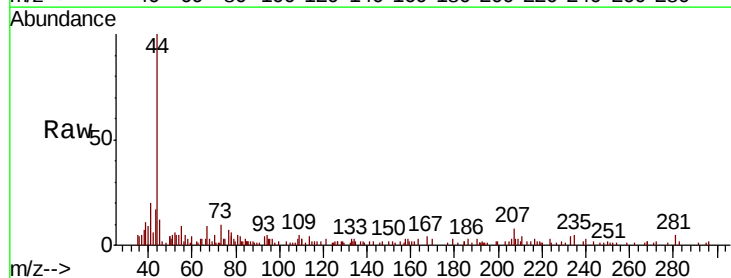
Acq: 4 Jun 2019 15:52

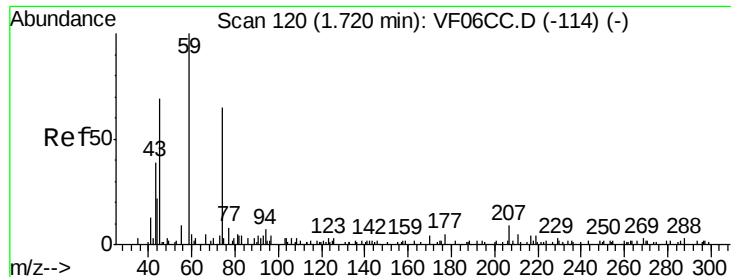
Tgt Ion: 64 Resp: 675

Ion Ratio Lower Upper

64 100

66 56.2 31.0 46.4#





#8

Diethyl Ether

Concen: 4.576 ug/l

RT: 1.72 min Scan# 120

Delta R.T. -0.00 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

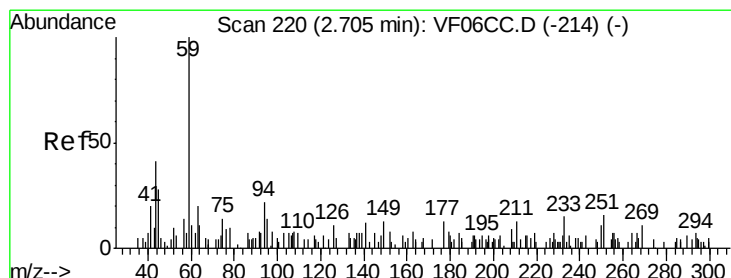
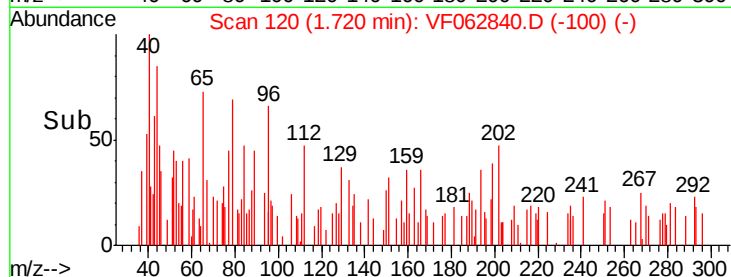
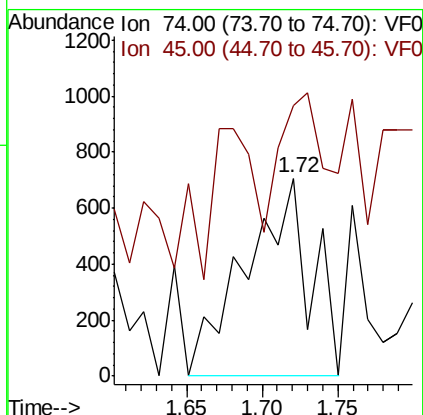
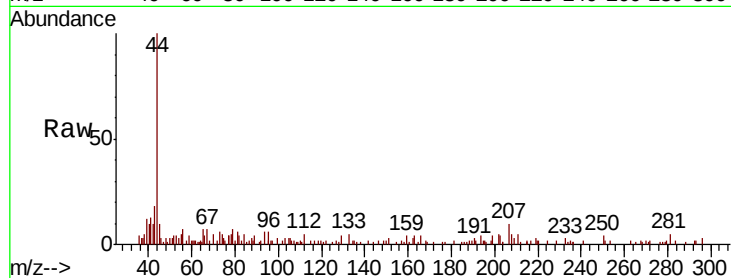
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 2109

Ion Ratio Lower Upper

74 100

45 136.6 47.5 142.5



#11

Tert butyl alcohol

Concen: 9.272 ug/l

RT: 2.71 min Scan# 220

Delta R.T. -0.01 min

Lab File: VF062840.D

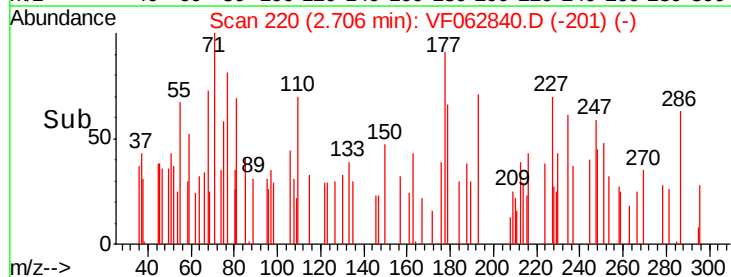
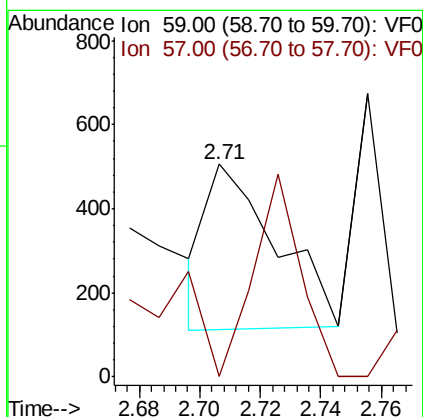
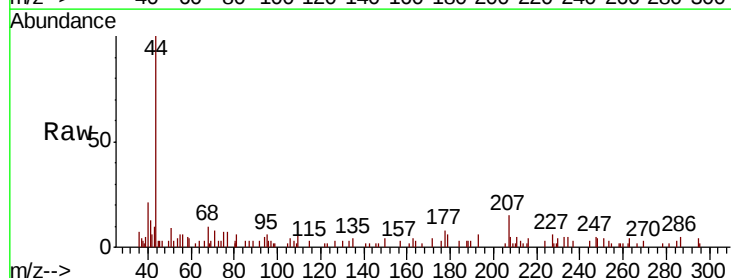
Acq: 4 Jun 2019 15:52

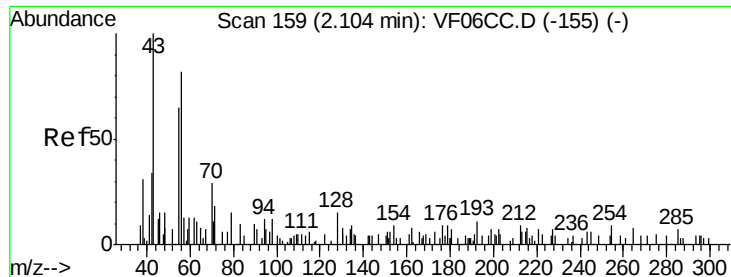
Tgt Ion: 59 Resp: 625

Ion Ratio Lower Upper

59 100

57 0.0 9.2 13.8#

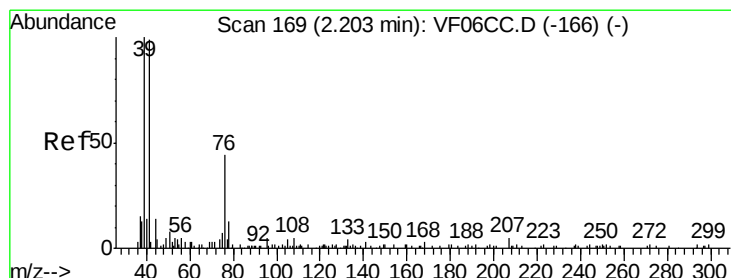
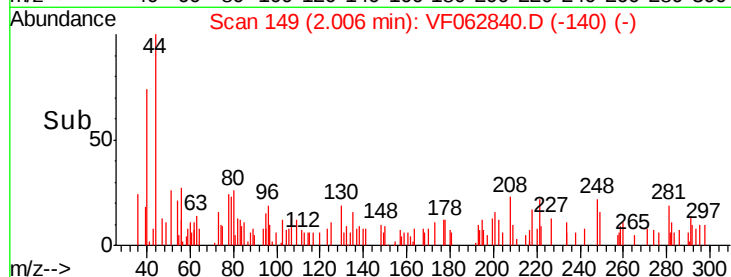
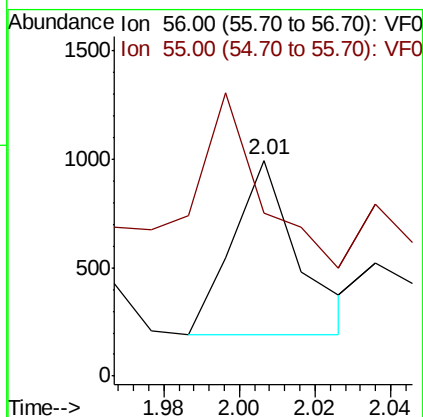
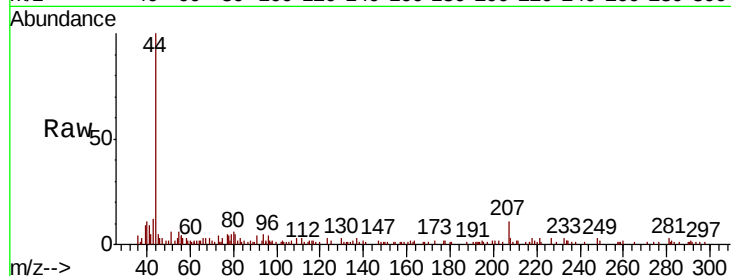




#13
Acrolein
Concen: 28.587 ug/l
RT: 2.01 min Scan# 149
Delta R.T. -0.11 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

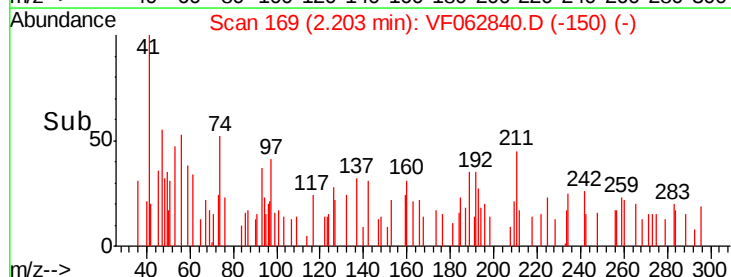
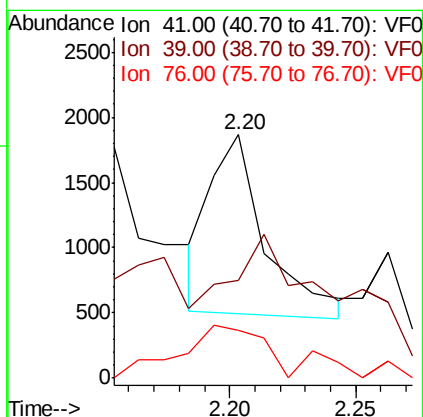
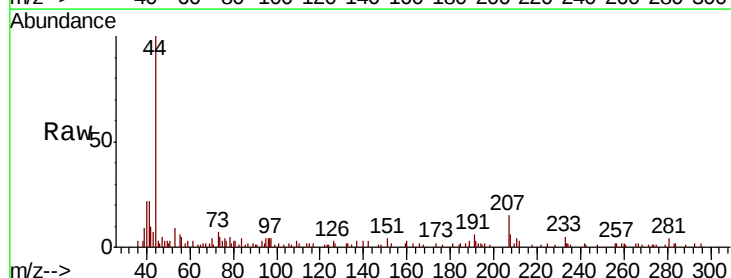
Instrument :
MSVOA_F
ClientSampled :

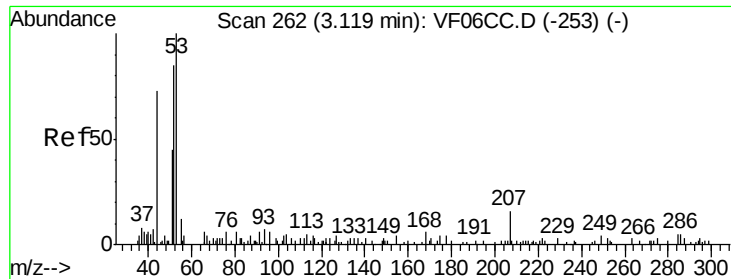
Tot Ion: 56 Resp: 965
Ion Ratio Lower Upper
56 100
55 75.4 52.9 79.3



#14
Allyl chloride
Concen: 2.021 ug/l
RT: 2.20 min Scan# 169
Delta R.T. -0.01 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Tgt Ion: 41 Resp: 2097
Ion Ratio Lower Upper
41 100
39 40.4 71.9 107.9#
76 19.5 39.6 59.4#





#15

Acrylonitrile

Concen: 1.986 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :
MSVOA_F
ClientSampled :

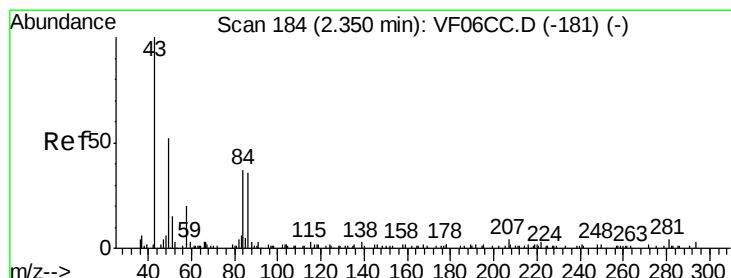
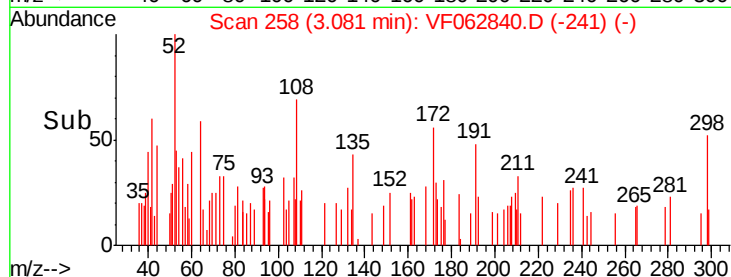
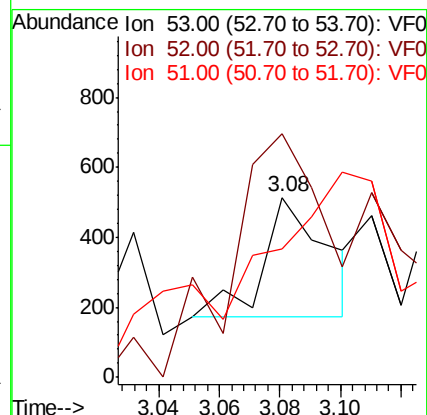
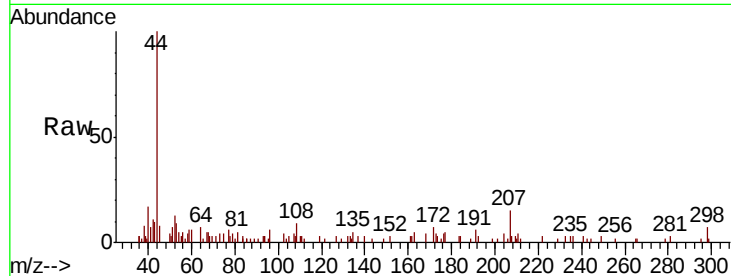
Tot Ion: 53 Resp: 503

Ion Ratio Lower Upper

53 100

52 135.4 68.1 102.1#

51 71.4 27.7 41.5#



#16

Acetone

Concen: 29.413 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062840.D

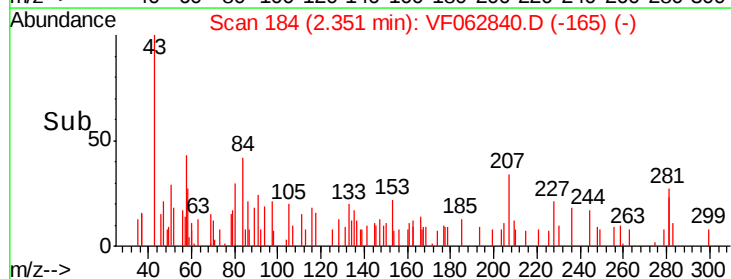
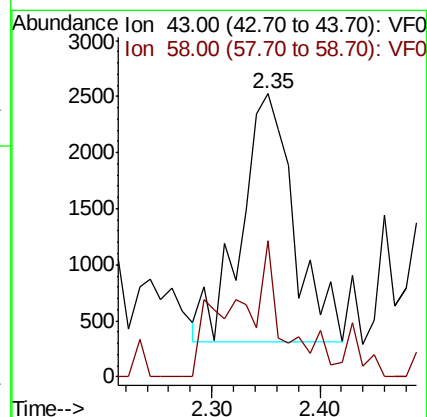
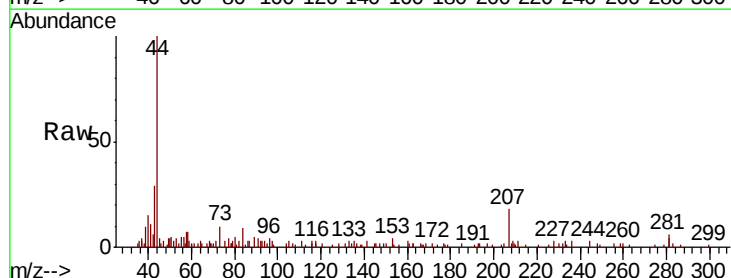
Acq: 4 Jun 2019 15:52

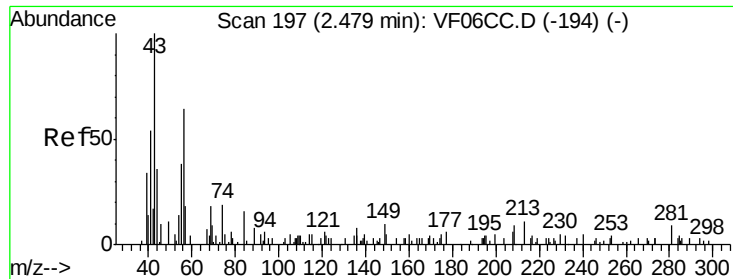
Tgt Ion: 43 Resp: 7491

Ion Ratio Lower Upper

43 100

58 48.1 19.0 28.4#

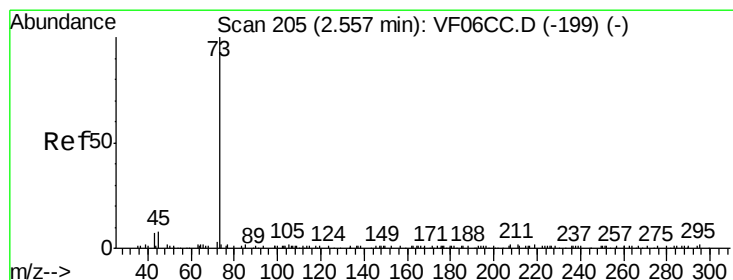
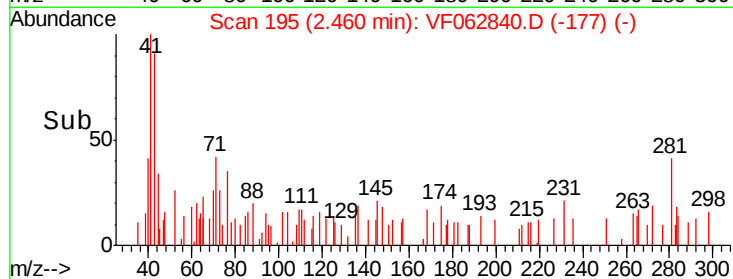
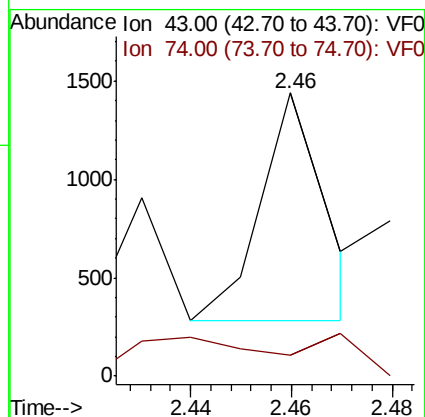
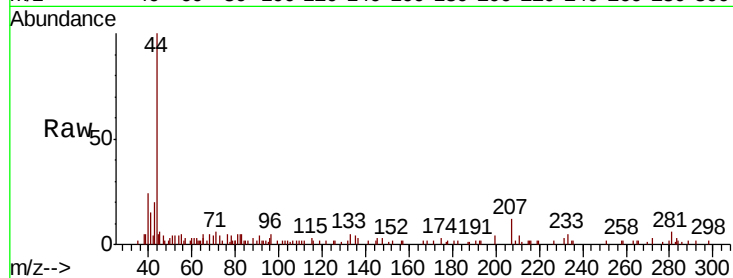




#18
Methyl Acetate
Concen: 2.287 ug/l
RT: 2.46 min Scan# 195
Delta R.T. -0.02 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

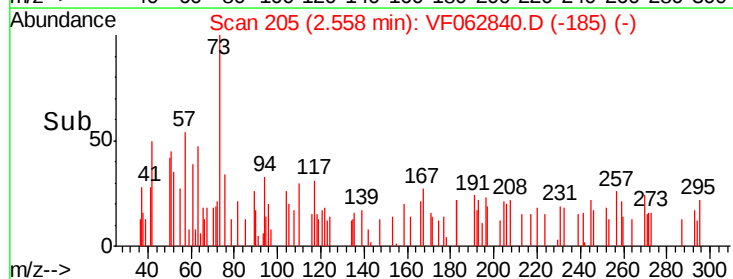
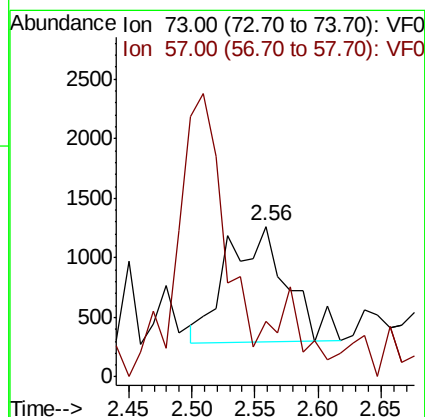
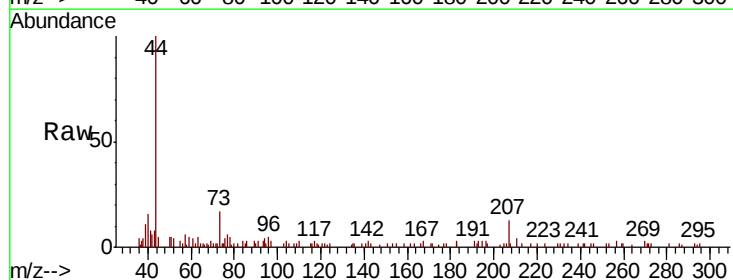
Instrument :
MSVOA_F
ClientSampled :

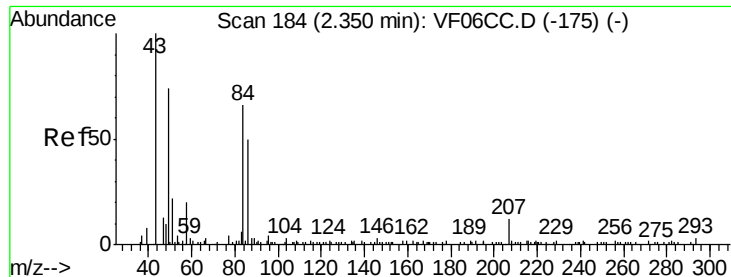
Tot Ion: 43 Resp: 1018
Ion Ratio Lower Upper
43 100
74 7.6 22.1 33.1#



#19
Methyl tert-butyl Ether
Concen: 1.336 ug/l
RT: 2.56 min Scan# 205
Delta R.T. -0.00 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Tgt Ion: 73 Resp: 3237
Ion Ratio Lower Upper
73 100
57 36.5 15.1 22.7#

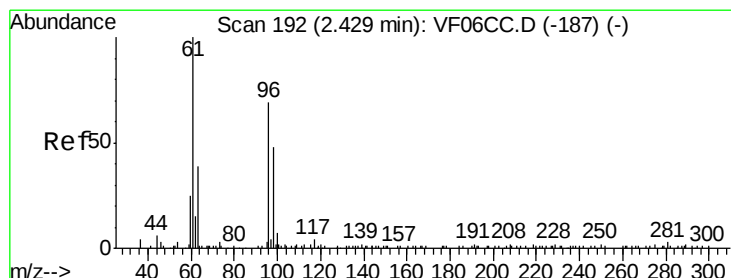
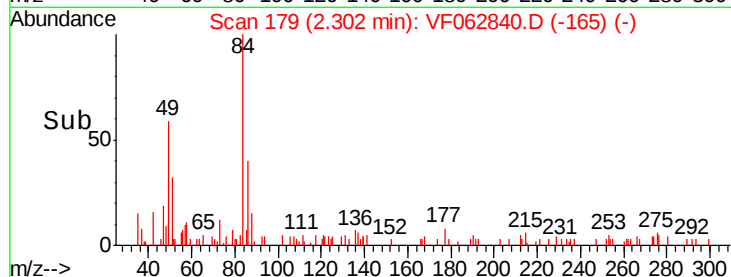
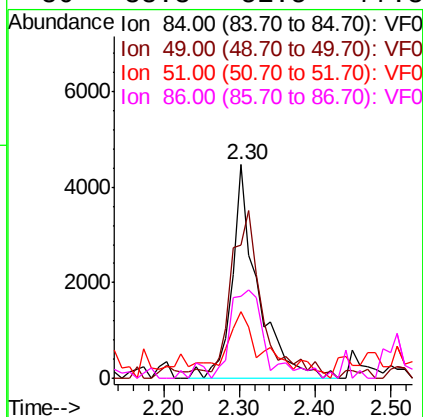
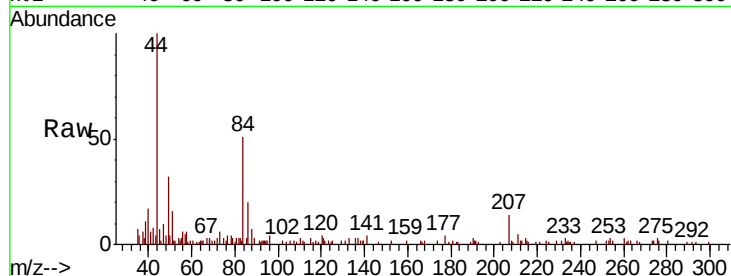




#20
Methvlene Chloride
Concen: 5.413 ug/l
RT: 2.30 min Scan# 179
Delta R.T. -0.06 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

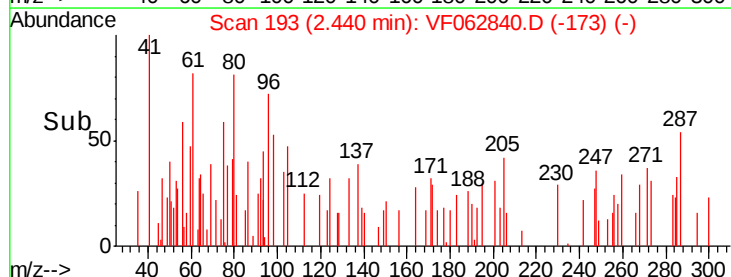
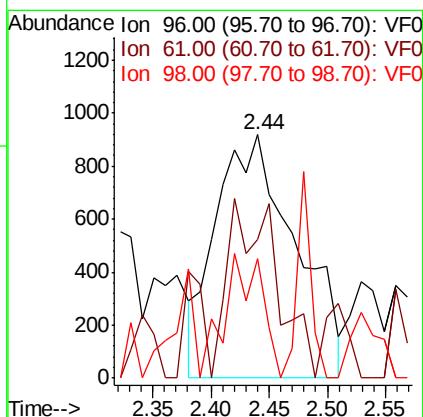
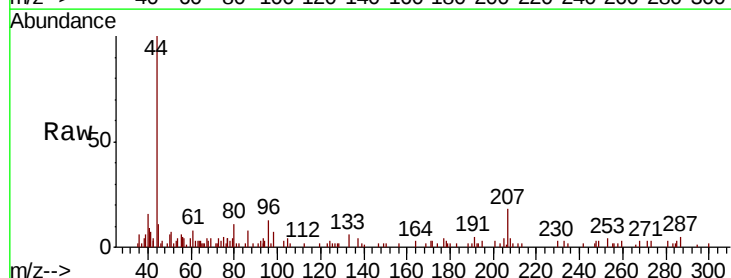
Instrument :
MSVOA_F
ClientSampled :

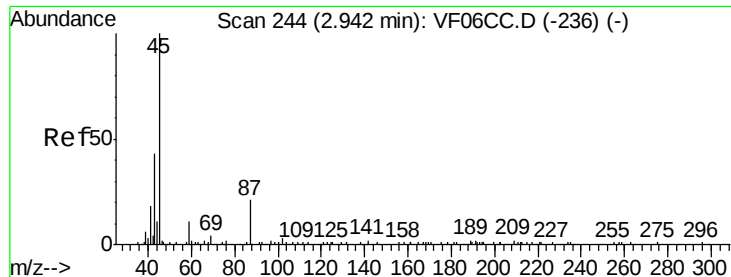
Tot Ion: 84 Resp: 10300
Ion Ratio Lower Upper
84 100
49 62.1 82.6 123.8#
51 31.0 25.0 37.4
86 38.3 51.5 77.3#



#21
trans-1,2-Dichloroethene
Concen: 3.261 ug/l
RT: 2.44 min Scan# 193
Delta R.T. -0.00 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Tgt Ion: 96 Resp: 4372
Ion Ratio Lower Upper
96 100
61 56.9 105.0 157.6#
98 49.3 51.1 76.7#





#22

Diisopropyl ether

Concen: 2.419 ug/l

RT: 2.94 min Scan# 244

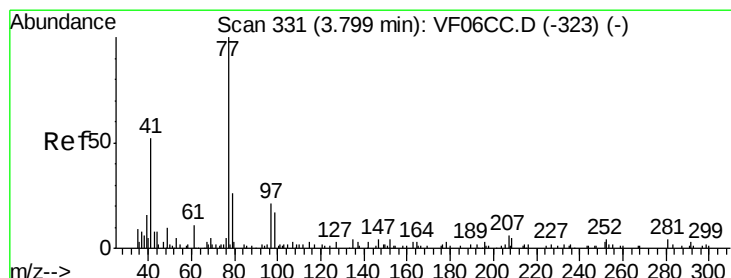
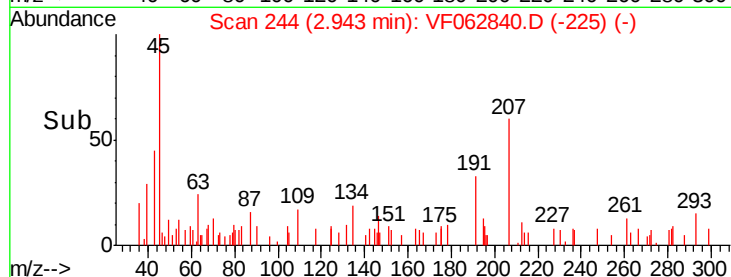
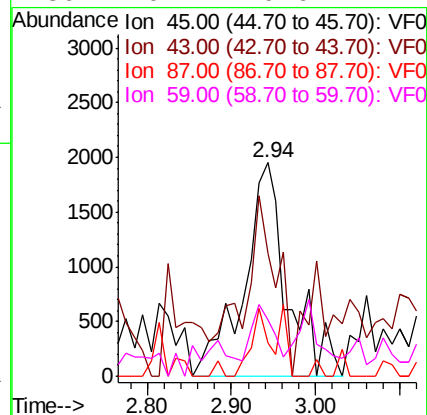
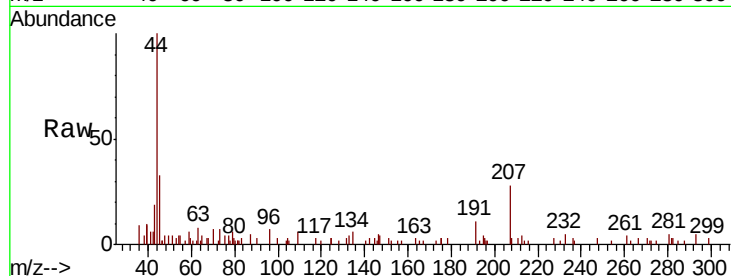
Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	45	Resp:	7130
Ion	Ratio	Lower	Upper
45	100		
43	57.6	34.3	51.5#
87	15.6	19.0	28.4#
59	26.1	9.6	14.4#



#26

2,2-Dichloropropane

Concen: 1.086 ug/l

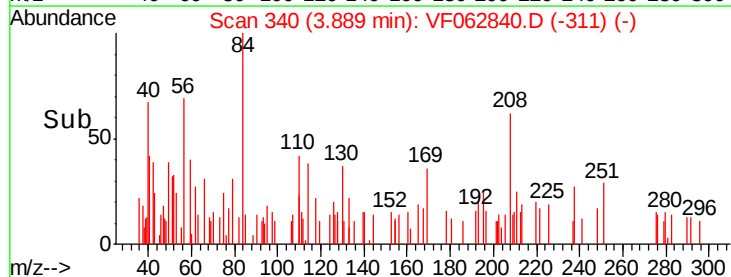
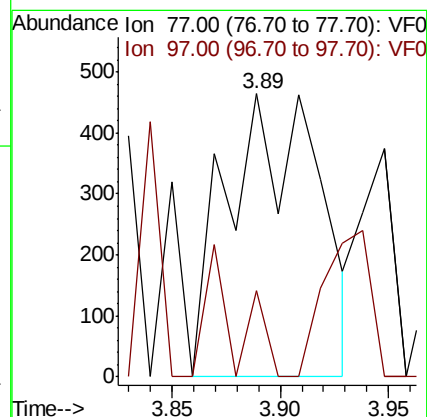
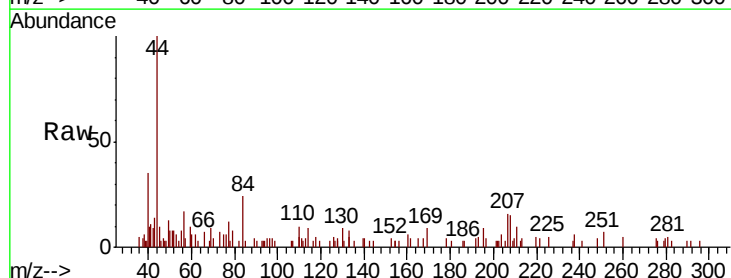
RT: 3.89 min Scan# 340

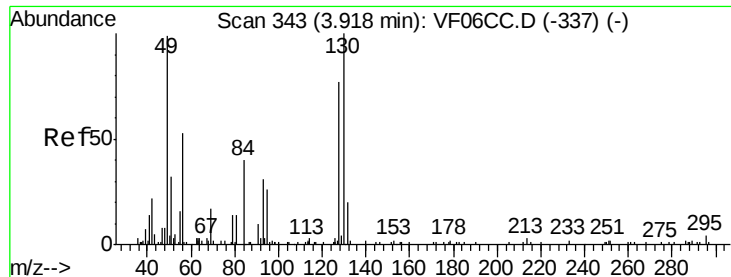
Delta R.T. 0.09 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Tgt Ion:	77	Resp:	1357
Ion	Ratio	Lower	Upper
77	100		
97	30.4	12.4	37.4





#28

Bromochloromethane

Concen: 1.304 ug/l

RT: 3.89 min Scan# 340

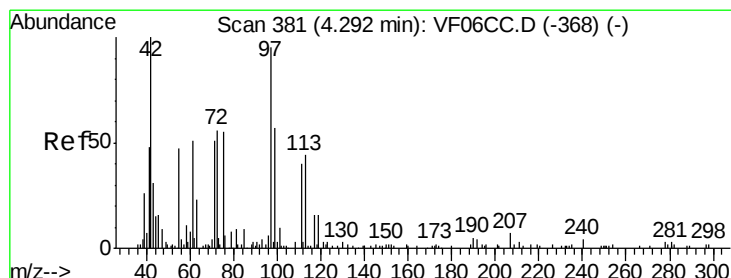
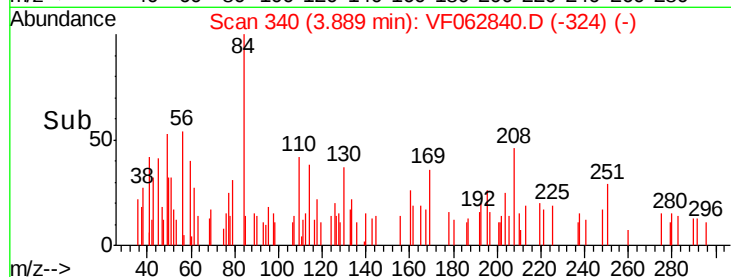
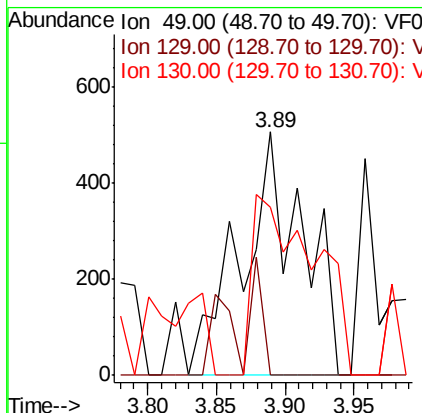
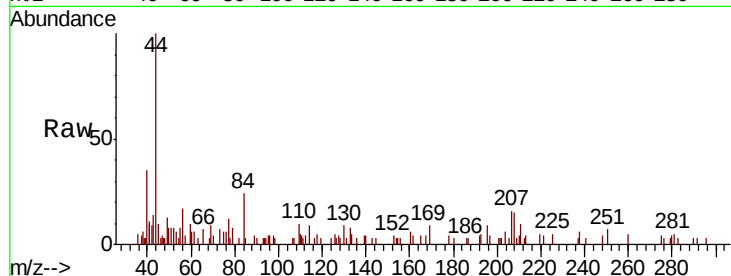
Delta R.T. -0.04 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 49 Resp: 1561
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.4
130 69.0 79.2 118.8#



#29

Tetrahydrofuran

Concen: 2.808 ug/l

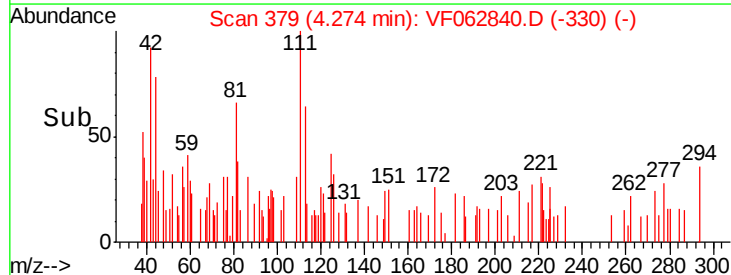
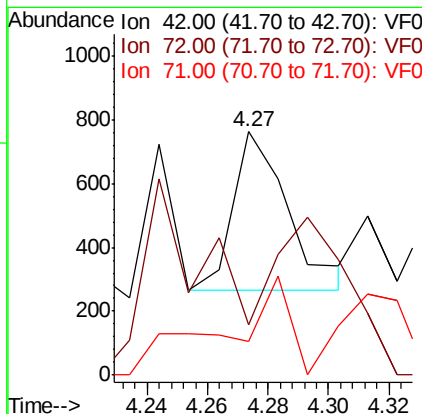
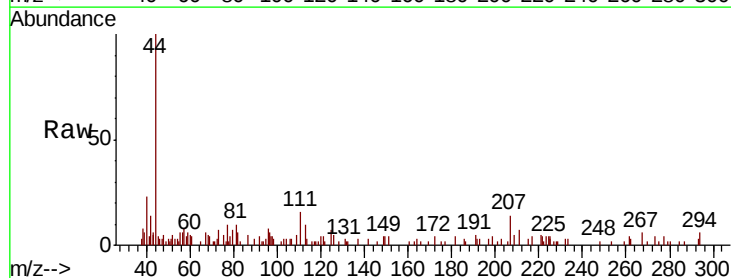
RT: 4.27 min Scan# 379

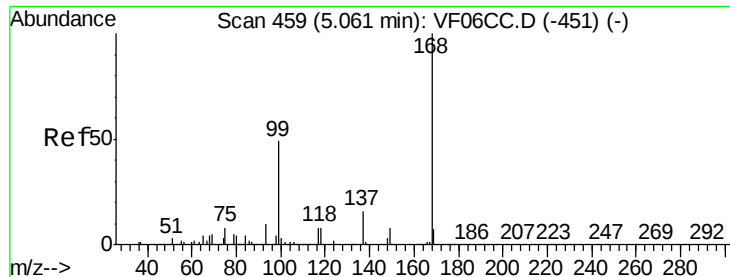
Delta R.T. -0.02 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Tgt Ion: 42 Resp: 637
Ion Ratio Lower Upper
42 100
72 0.0 39.0 58.6#
71 73.9 36.9 55.3#

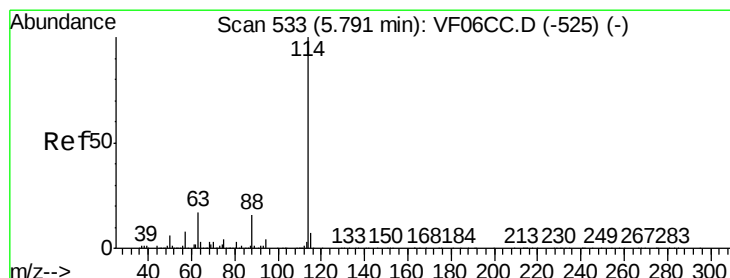
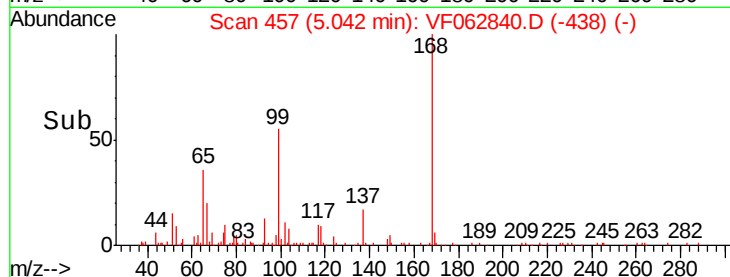
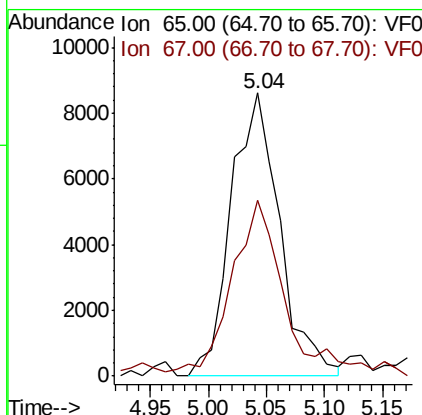
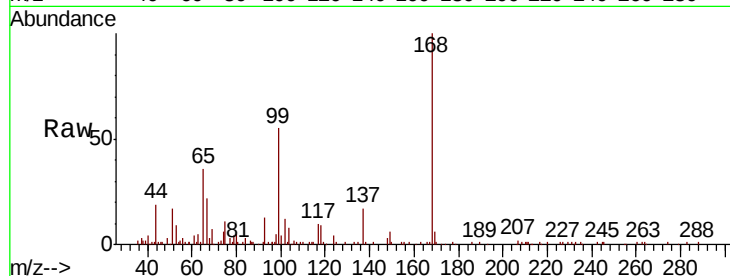




#33
 1,2-Dichloroethane-d4
 Concen: 22.423 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. -0.01 min
 Lab File: VF062840.D
 Acq: 4 Jun 2019 15:52

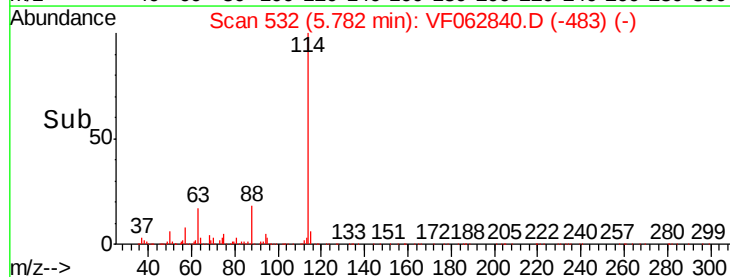
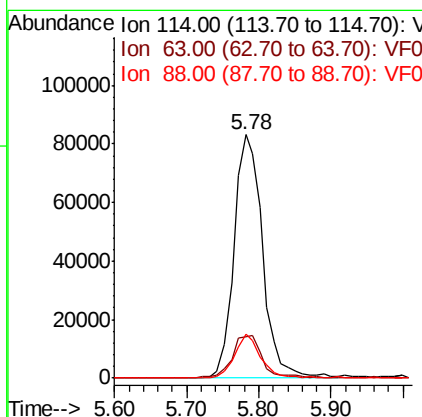
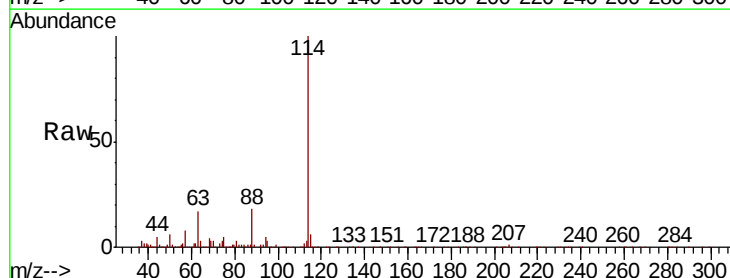
Instrument :
 MSVOA_F
 ClientSampled :

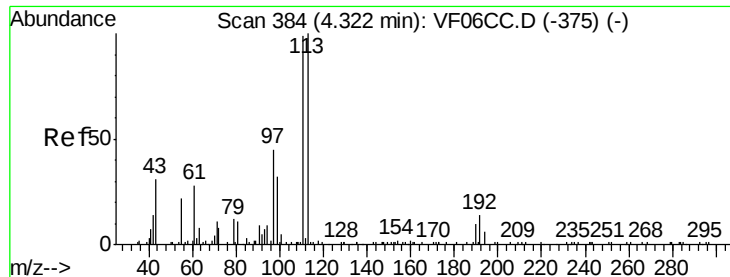
Tot Ion: 65 Resp: 24951
 Ion Ratio Lower Upper
 65 100
 67 62.0 0.0 121.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. -0.02 min
 Lab File: VF062840.D
 Acq: 4 Jun 2019 15:52

Tgt Ion:114 Resp: 229513
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 34.2
 88 18.3 0.0 31.2

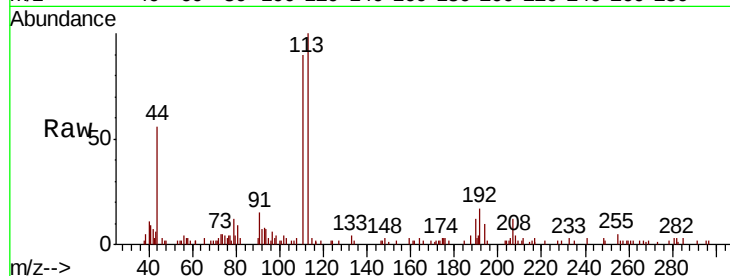




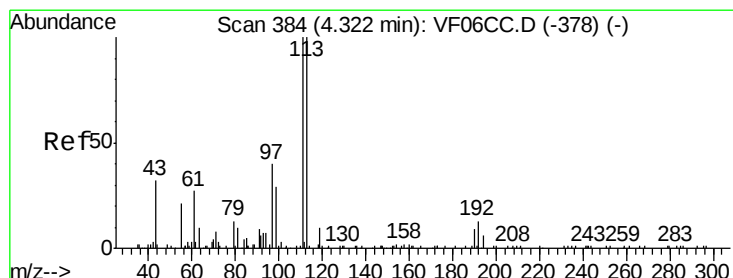
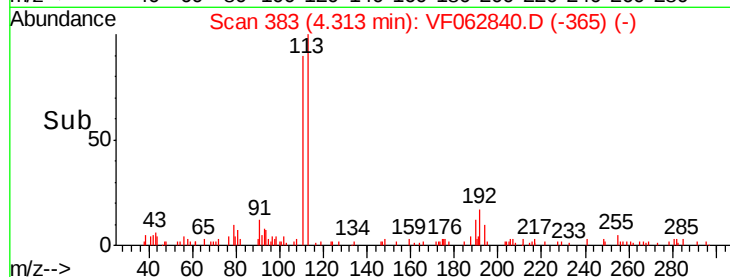
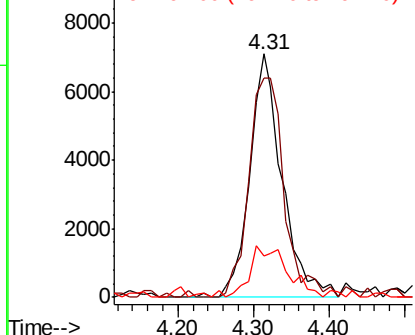
#35
Dibromofluoromethane
Concen: 12.186 ug/l
RT: 4.31 min Scan# 383
Delta R.T. -0.02 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 21135
Ion Ratio Lower Upper
113 100
111 89.8 81.9 122.9
192 17.0 15.1 22.7

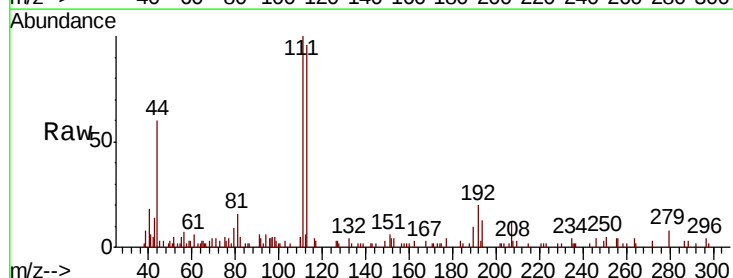


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

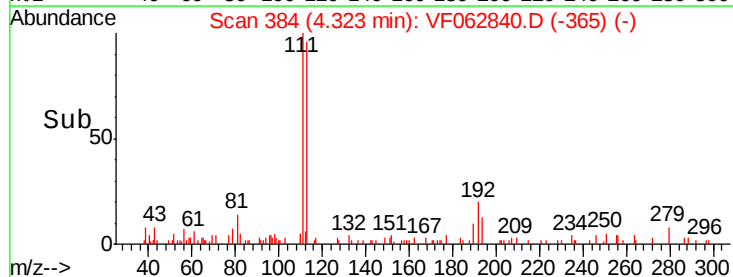
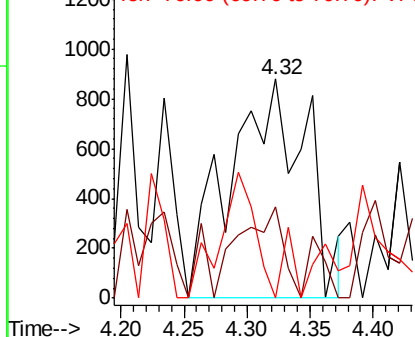


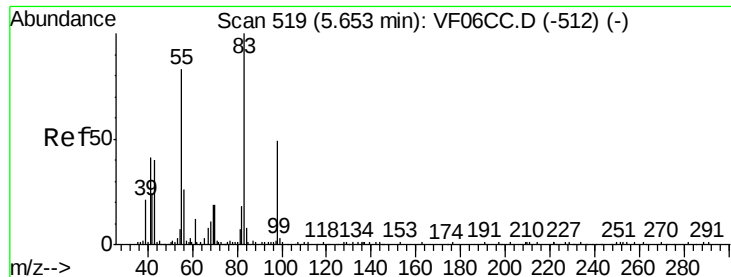
#37
Ethyl Acetate
Concen: 4.603 ug/l
RT: 4.32 min Scan# 384
Delta R.T. -0.01 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Tgt Ion: 43 Resp: 3718
Ion Ratio Lower Upper
43 100
61 41.5 59.1 88.7#
70 0.0 10.1 15.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

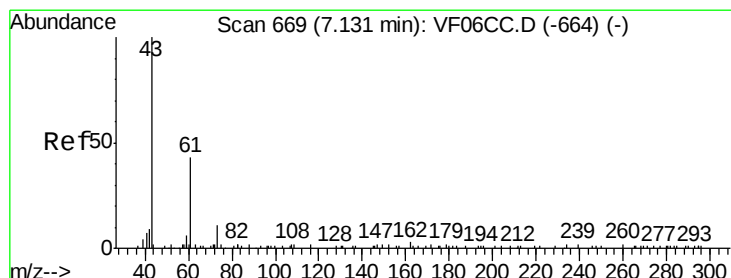
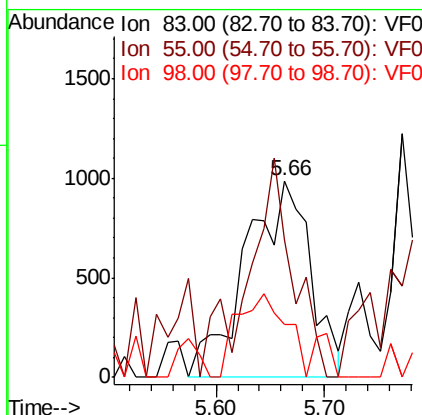
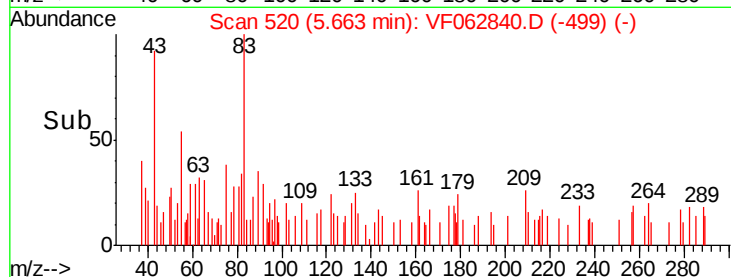
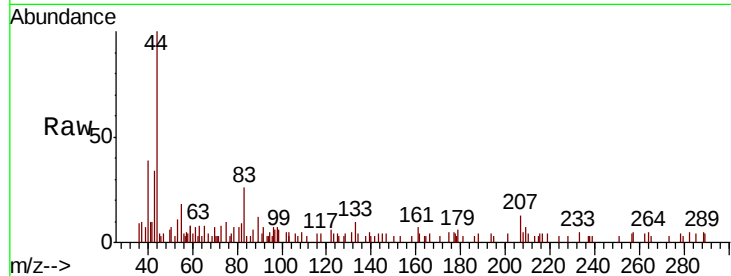




#39
Methylcyclohexane
Concen: 1.574 ug/l
RT: 5.66 min Scan# 520
Delta R.T. 0.01 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

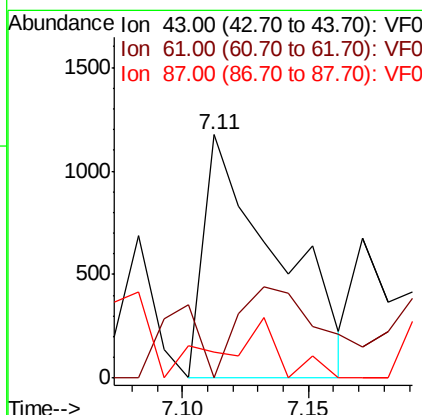
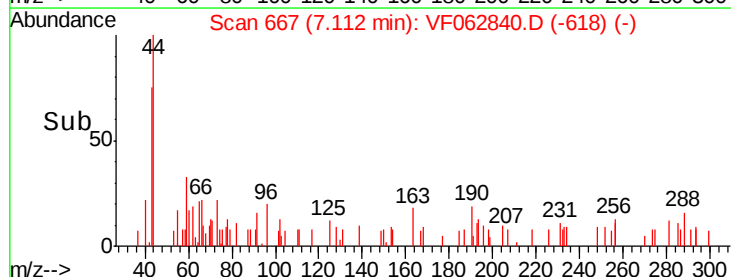
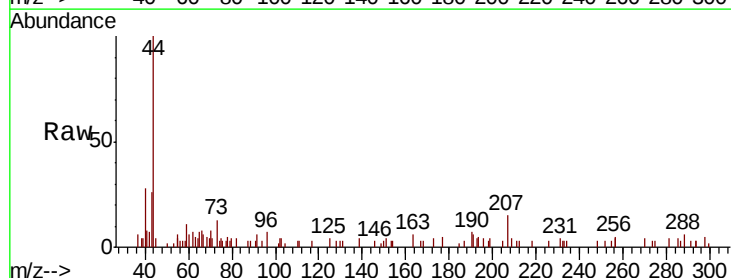
Instrument :
MSVOA_F
ClientSampled :

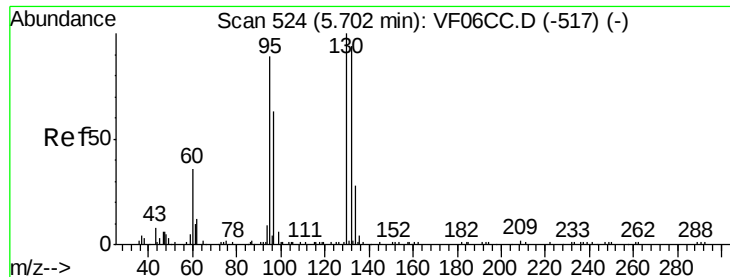
Tot Ion: 83 Resp: 4138
Ion Ratio Lower Upper
83 100
55 70.1 61.6 92.4
98 26.7 37.4 56.2#



#43
Isopropyl Acetate
Concen: 2.234 ug/l
RT: 7.11 min Scan# 667
Delta R.T. -0.02 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Tgt Ion: 43 Resp: 2384
Ion Ratio Lower Upper
43 100
61 0.0 29.8 44.6#
87 10.9 0.3 0.5#





#44

Trichloroethene

Concen: 1.019 ug/l

RT: 5.69 min Scan# 523

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

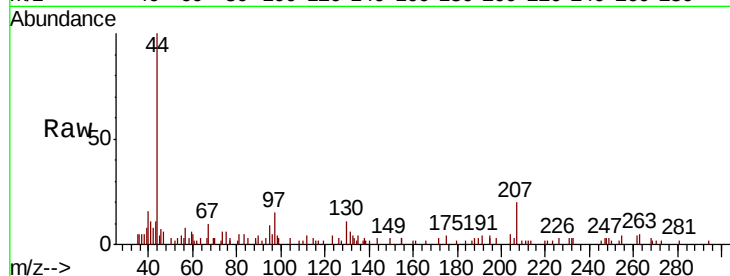
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:130 Resp: 1768

Ion Ratio Lower Upper

130 100

95 75.7 0.0 188.2



Abundance Ion 129.90 (129.60 to 130.60): VF0

Ion 94.90 (94.60 to 95.60): VF0

3000

2500

2000

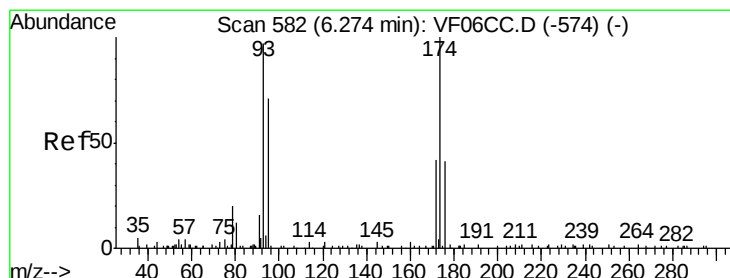
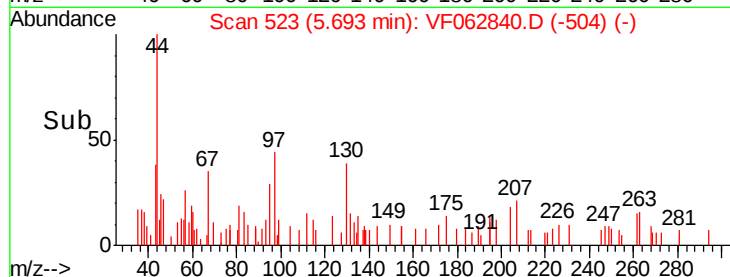
1500

1000

500

0

Time-->



#46

Dibromomethane

Concen: 1.165 ug/l

RT: 6.27 min Scan# 582

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

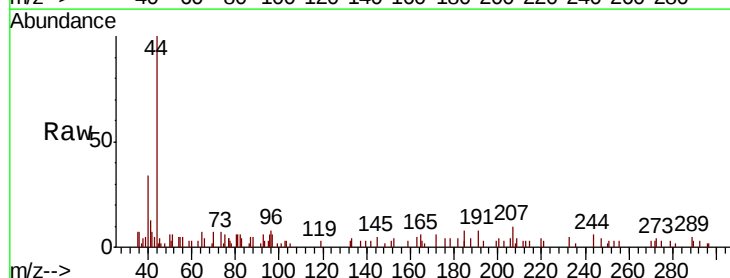
Tgt Ion: 93 Resp: 1050

Ion Ratio Lower Upper

93 100

95 107.1 67.9 101.9#

174 0.0 85.0 127.4#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

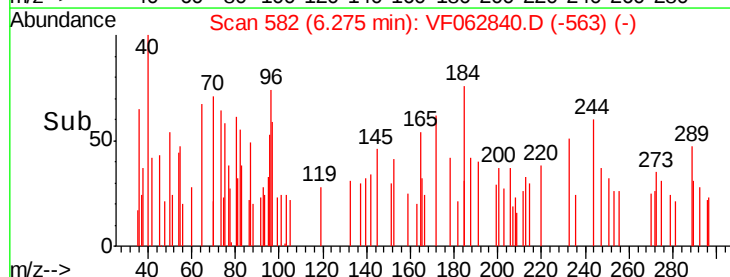
600

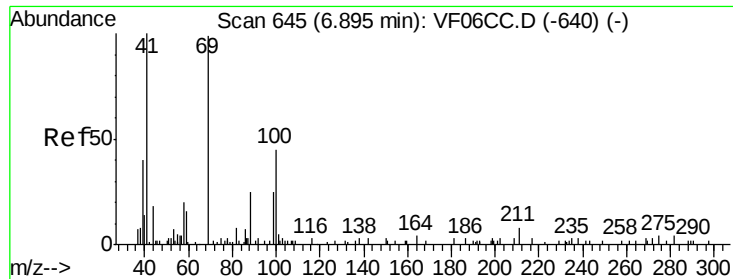
400

200

0

Time-->

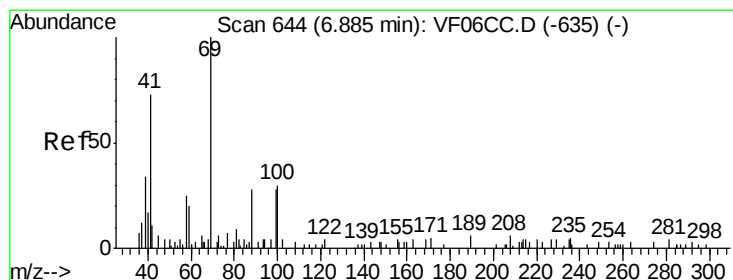
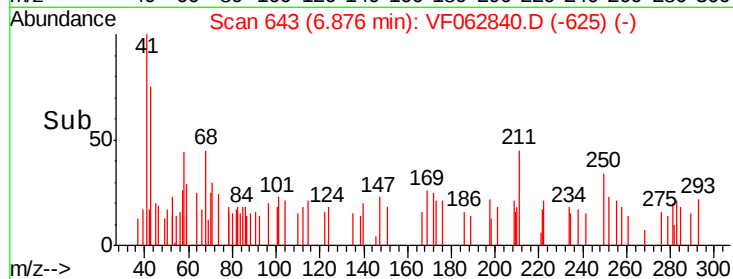
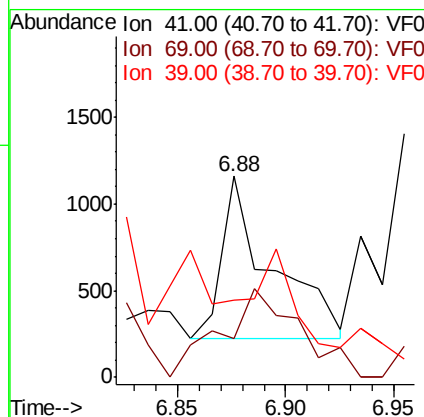
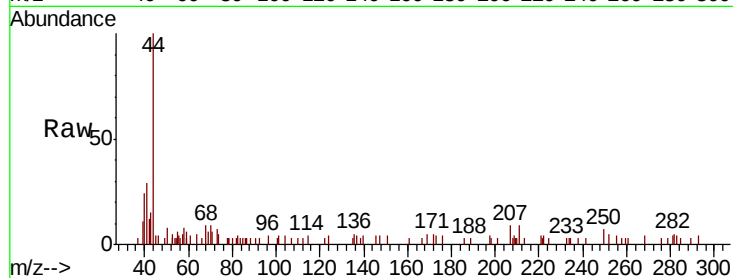




#48
Methvl methacrylate
Concen: 2.739 ug/l
RT: 6.88 min Scan# 643
Delta R.T. -0.02 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

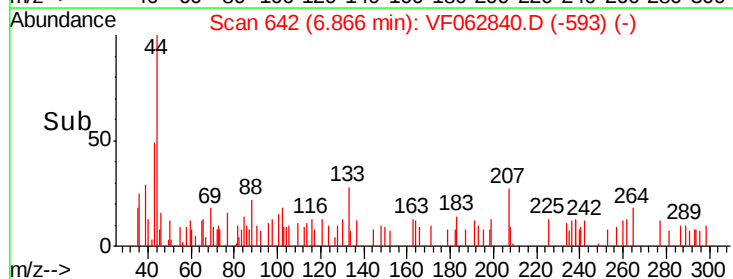
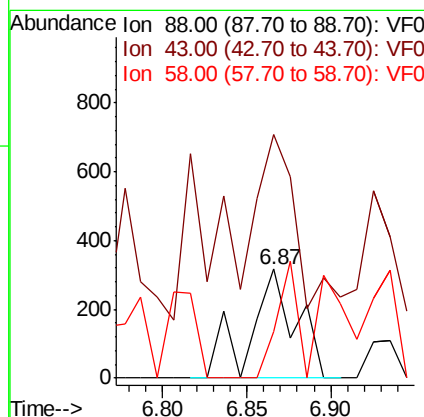
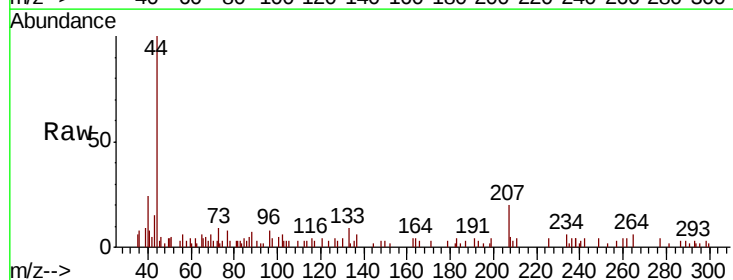
Instrument :
MSVOA_F
ClientSampleId :

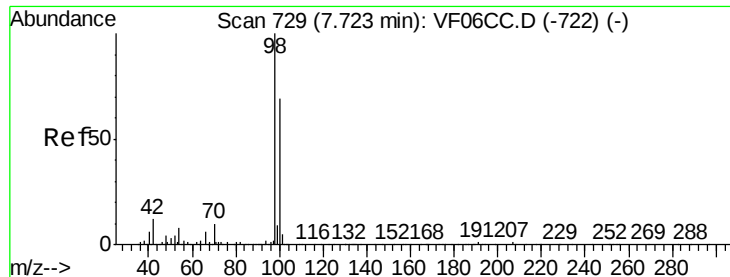
Tot Ion: 41 Resp: 1506
Ion Ratio Lower Upper
41 100
69 19.4 79.4 119.2#
39 38.2 39.8 59.6#



#49
1,4-Dioxane
Concen: 82.921 ug/l
RT: 6.87 min Scan# 642
Delta R.T. -0.02 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Tgt Ion: 88 Resp: 601
Ion Ratio Lower Upper
88 100
43 223.3 34.8 52.2#
58 42.3 59.9 89.9#





#50

Toluene-d8

Concen: 35.486 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.02 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :

MSVOA_F

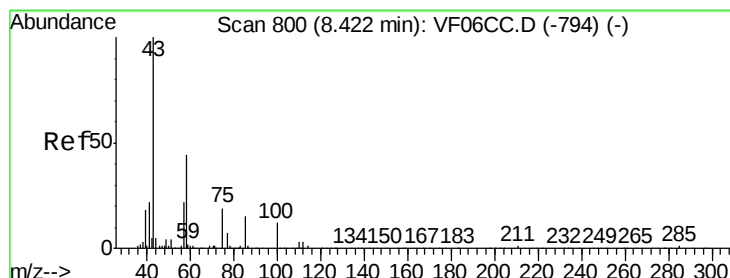
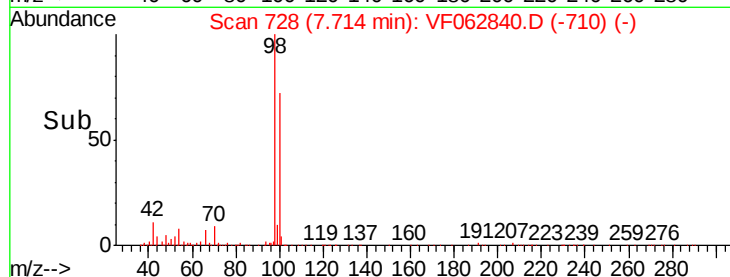
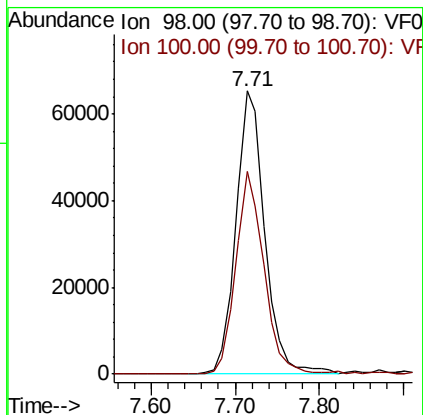
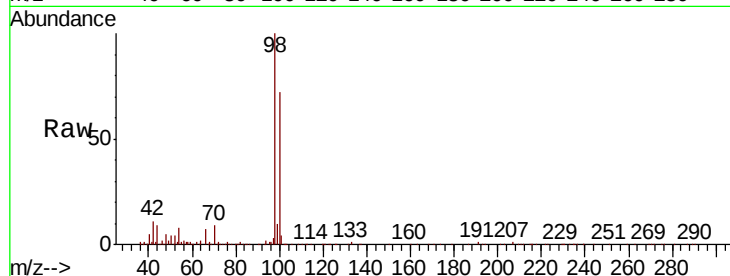
ClientSampleId :

Tot Ion: 98 Resp: 155632

Ion Ratio Lower Upper

98 100

100 71.6 59.8 89.8



#51

4-Methyl-2-Pentanone

Concen: 15.819 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.02 min

Lab File: VF062840.D

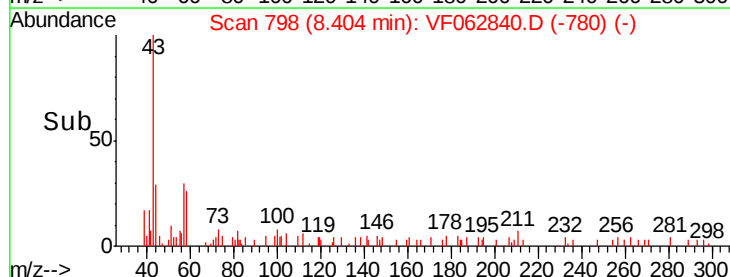
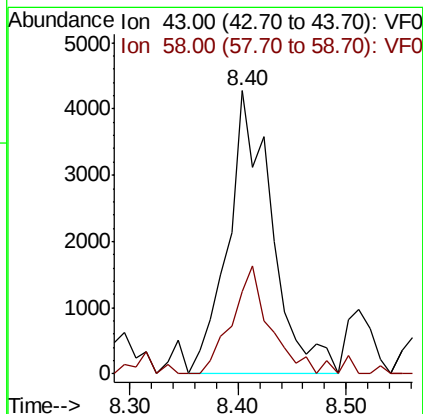
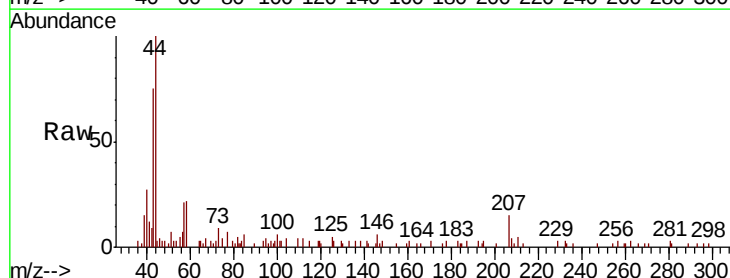
Acq: 4 Jun 2019 15:52

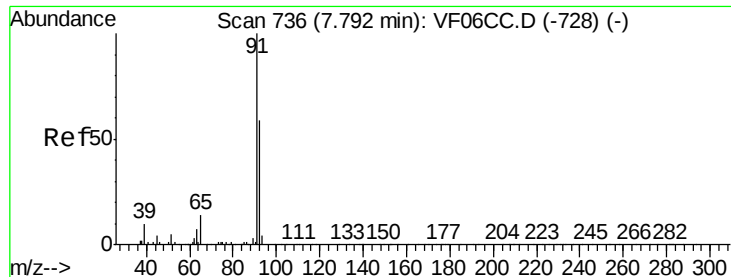
Tgt Ion: 43 Resp: 12050

Ion Ratio Lower Upper

43 100

58 29.2 35.5 53.3#





#52

Toluene

Concen: 1.409 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

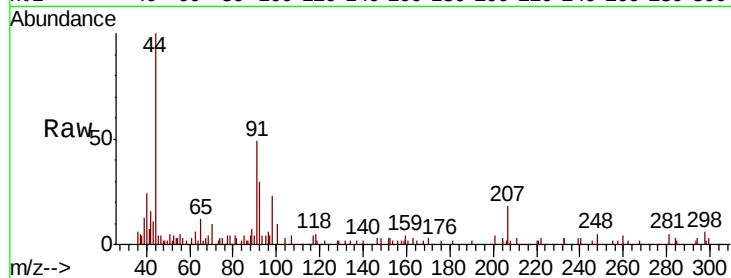
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 92 Resp: 4667

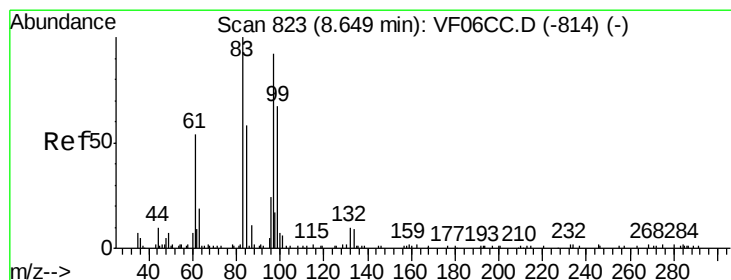
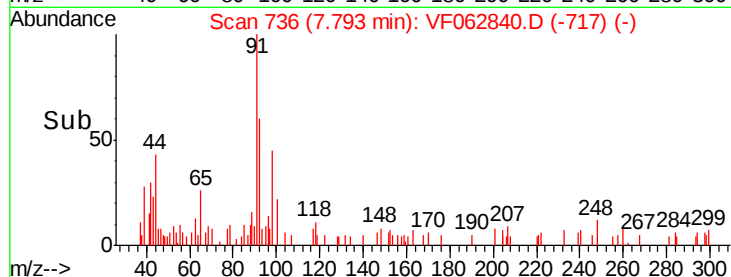
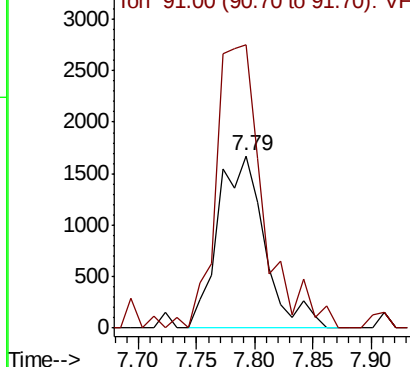
Ion Ratio Lower Upper

92 100

91 164.4 123.2 184.8



Abundance Ion 92.00 (91.70 to 92.70): VF0
Ion 91.00 (90.70 to 91.70): VF0



#55

1,1,2-Trichloroethane

Concen: 1.208 ug/l

RT: 8.63 min Scan# 821

Delta R.T. -0.02 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Tgt Ion: 97 Resp: 1195

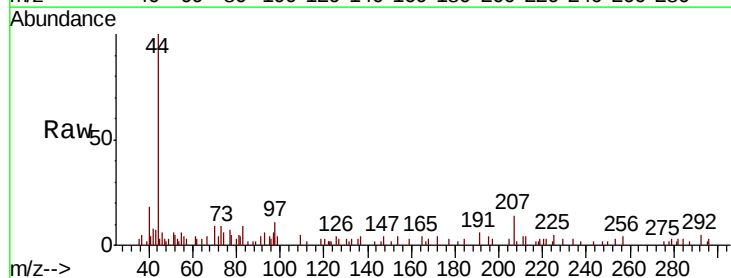
Ion Ratio Lower Upper

97 100

83 44.3 72.0 108.0#

85 9.3 47.5 71.3#

99 18.5 54.1 81.1#

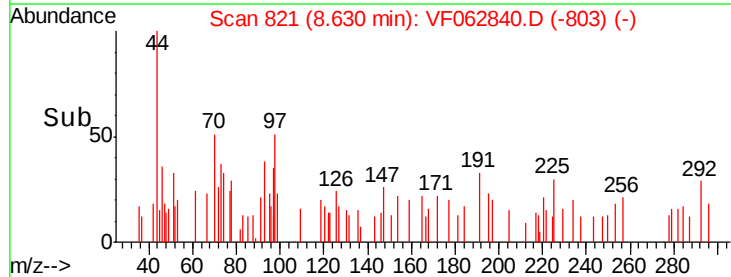
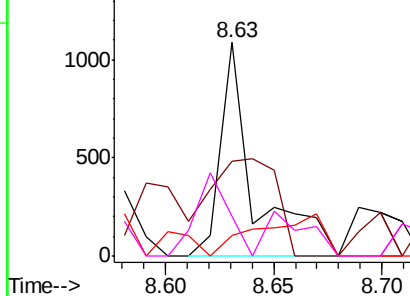


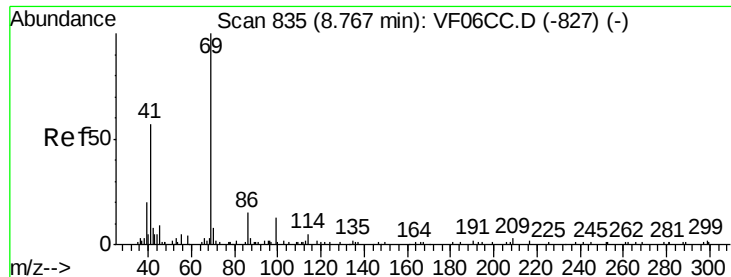
Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0





#56

Ethyl methacrylate

Concen: 2.687 ug/l

RT: 8.76 min Scan# 834

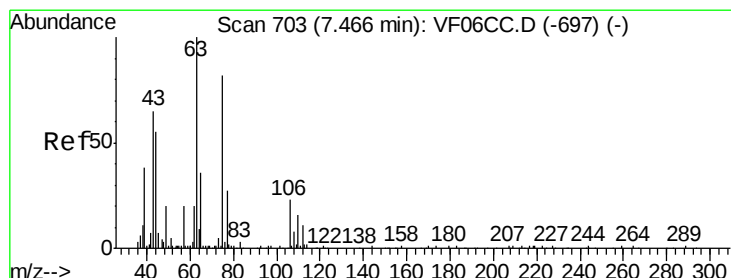
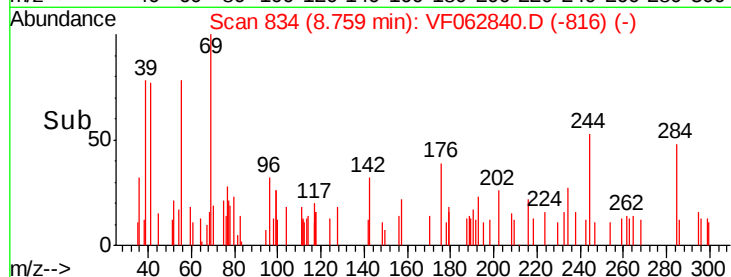
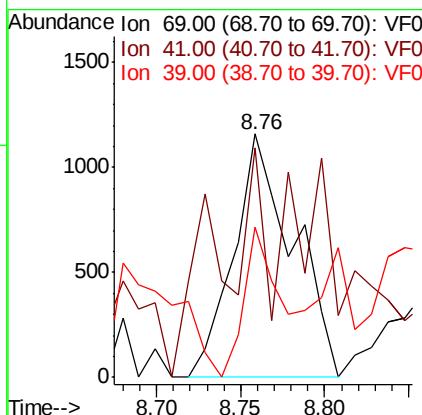
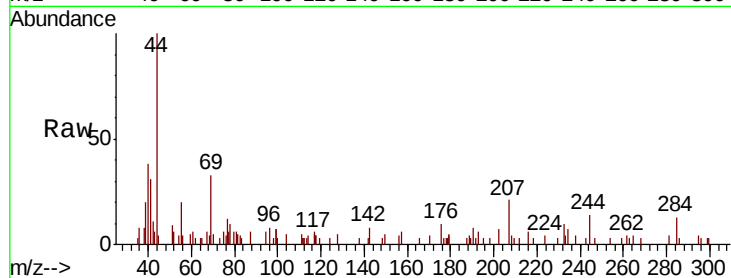
Delta R.T. -0.02 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	69	Resp:	2853
Ion	Ratio	Lower	Upper
69	100		
41	94.3	46.6	69.8#
39	61.7	19.6	29.4#



#58

2-Chloroethyl Vinyl ether

Concen: 1.728 ug/l

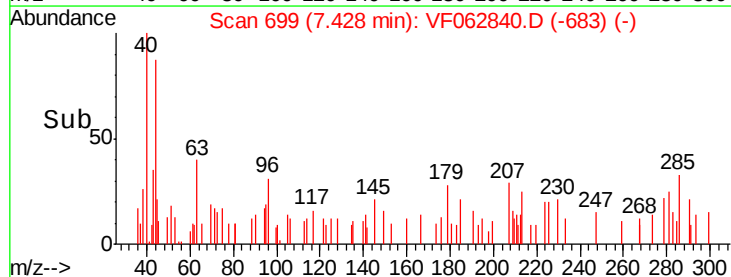
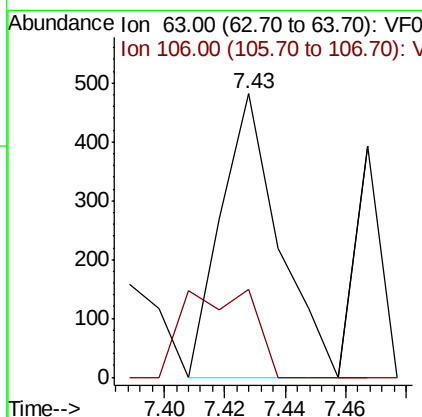
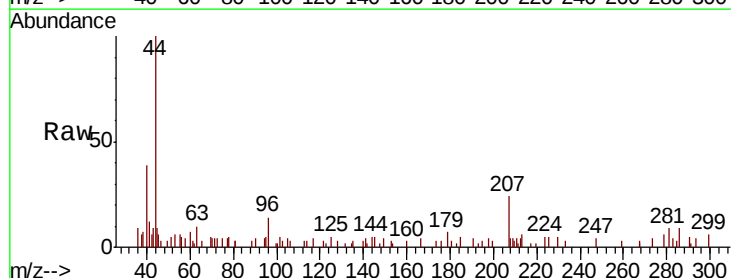
RT: 7.43 min Scan# 699

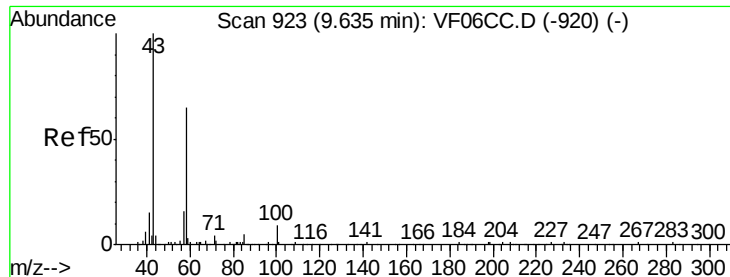
Delta R.T. -0.04 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Tgt Ion:	63	Resp:	641
Ion	Ratio	Lower	Upper
63	100		
106	30.9	19.5	29.3#

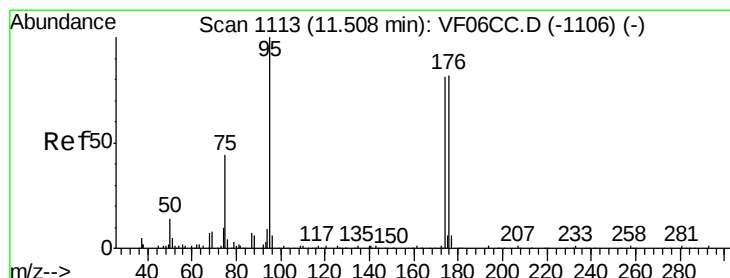
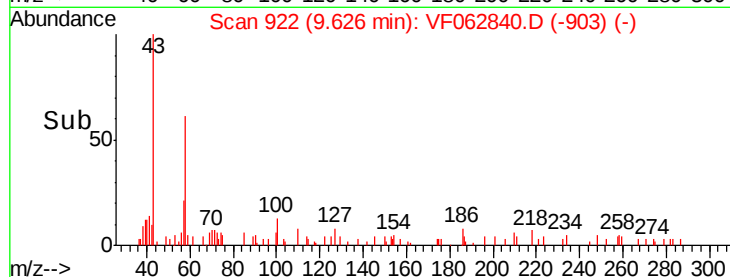
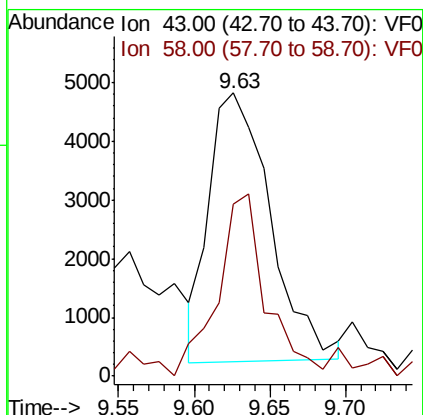
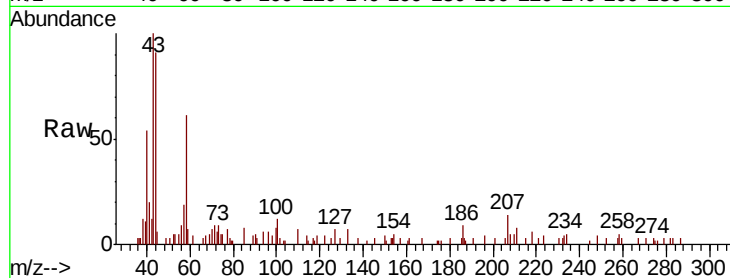




#59
2-Hexanone
Concen: 23.710 ug/l
RT: 9.63 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

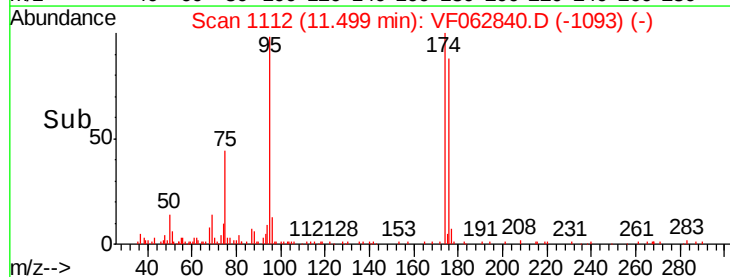
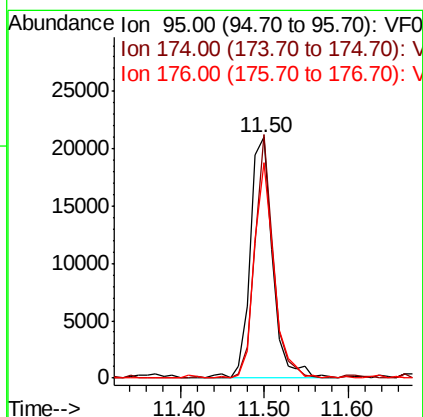
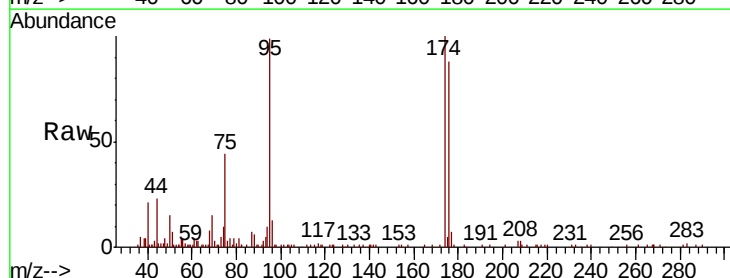
Instrument :
MSVOA_F
ClientSampleId :

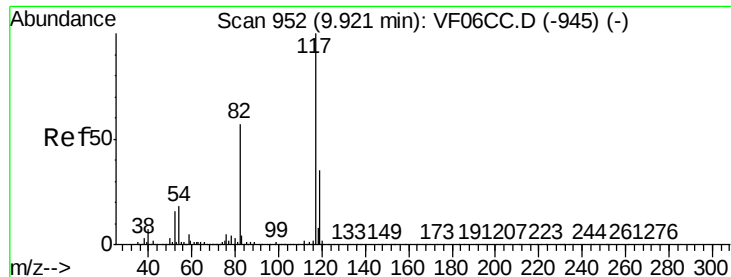
Tot Ion: 43 Resp: 12873
Ion Ratio Lower Upper
43 100
58 60.6 29.3 87.9



#62
4-Bromofluorobenzene
Concen: 24.934 ug/l
RT: 11.50 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Tgt Ion: 95 Resp: 39336
Ion Ratio Lower Upper
95 100
174 101.2 0.0 170.6
176 89.4 0.0 170.6

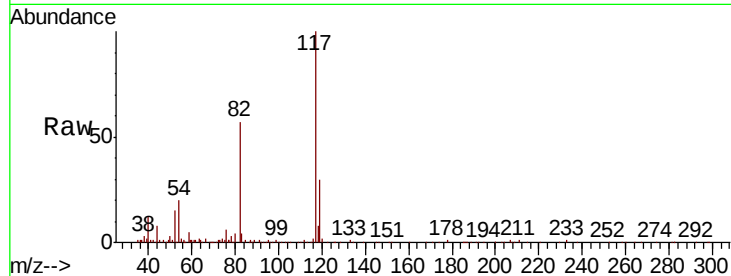




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.02 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.2	42.4	63.6
119	30.5	27.1	40.7

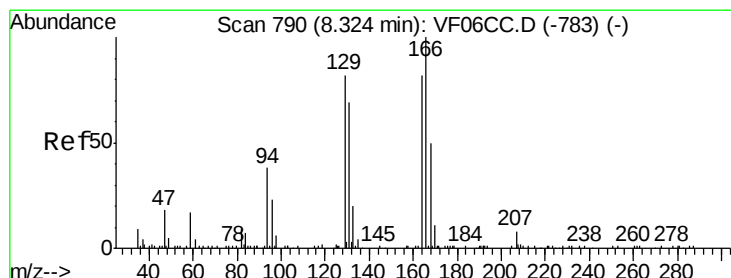
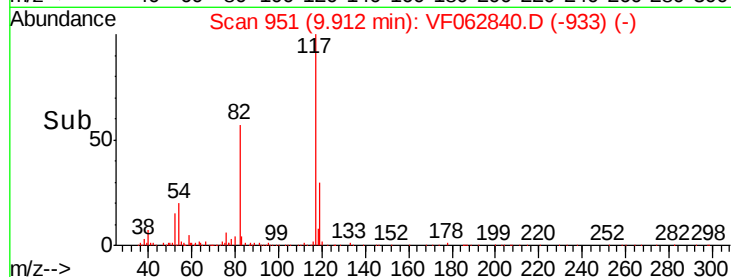
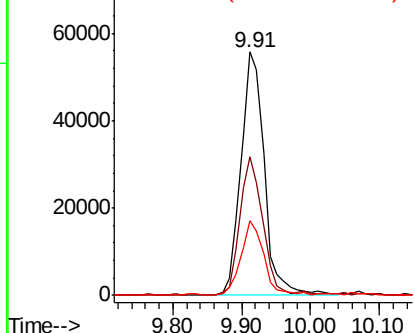


Abundance

Ion 117.00 (116.70 to 117.70): V

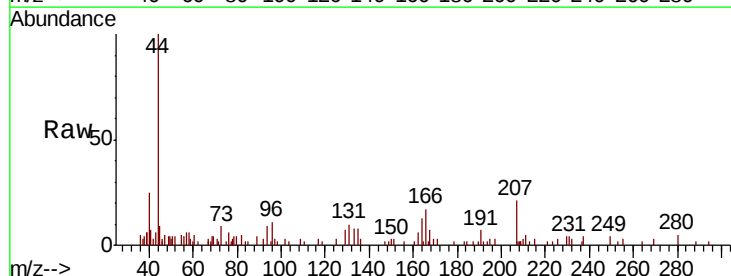
Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 1.970 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.01 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Tgt Ion	Ratio	Lower	Upper
164	100		
166	110.8	99.1	148.7
129	44.4	69.5	104.3#
131	65.8	69.2	103.8#



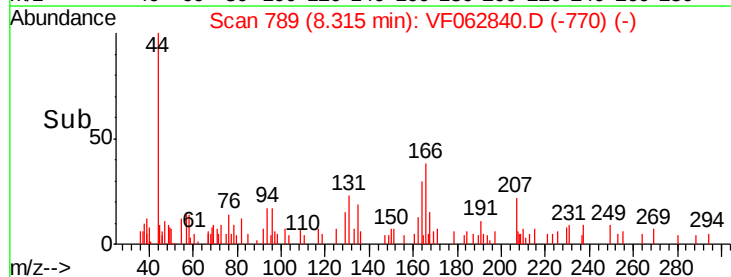
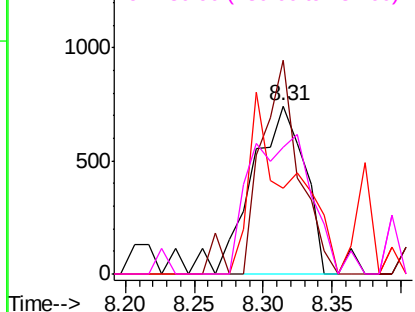
Abundance

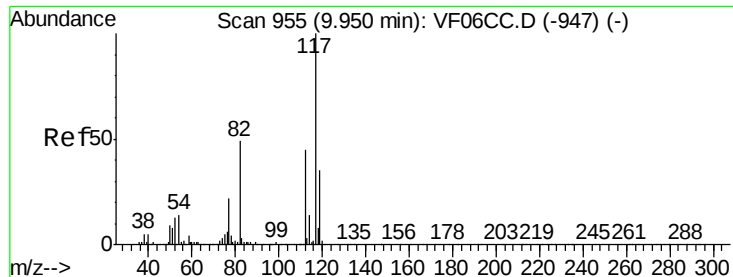
Ion 163.85 (163.55 to 164.55): V

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





#65

Chlorobenzene

Concen: 1.283 ug/l

RT: 9.94 min Scan# 954

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :

MSVOA_F

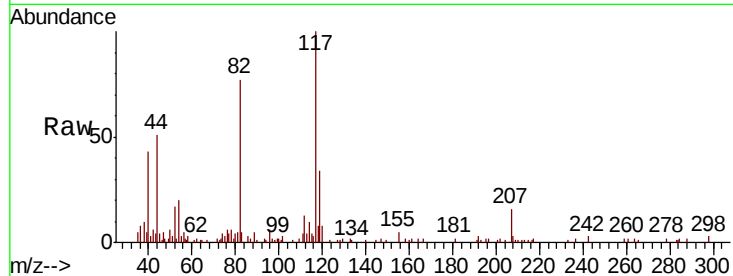
ClientSampleId :

Tot Ion:112 Resp: 3270

Ion Ratio Lower Upper

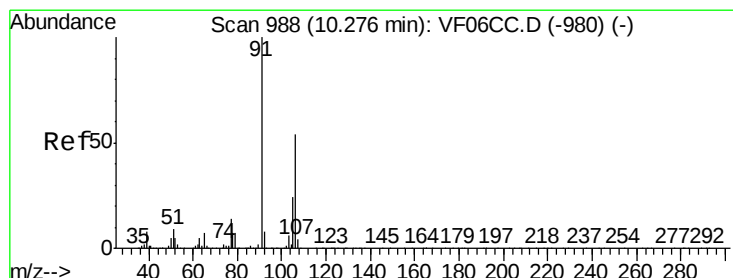
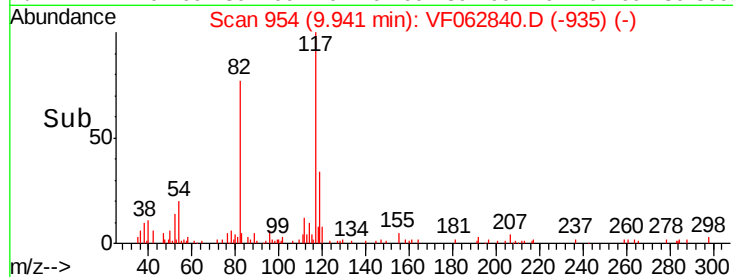
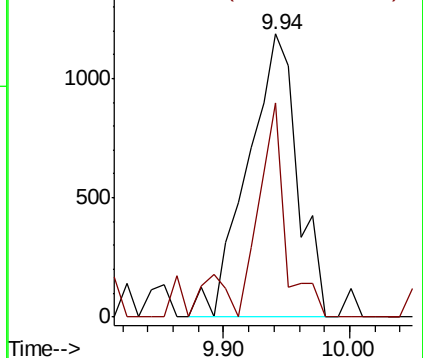
112 100

114 75.6 27.4 41.0#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#68

m/p-Xylenes

Concen: 5.205 ug/l

RT: 10.27 min Scan# 987

Delta R.T. -0.01 min

Lab File: VF062840.D

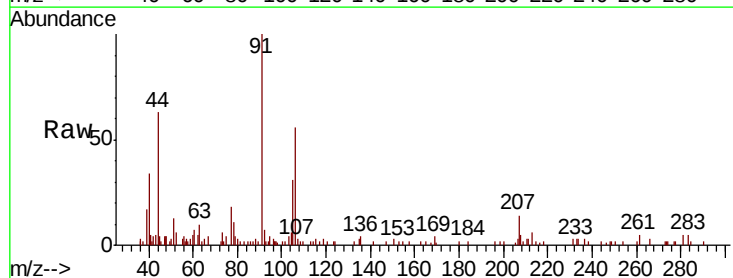
Acq: 4 Jun 2019 15:52

Tgt Ion:106 Resp: 8710

Ion Ratio Lower Upper

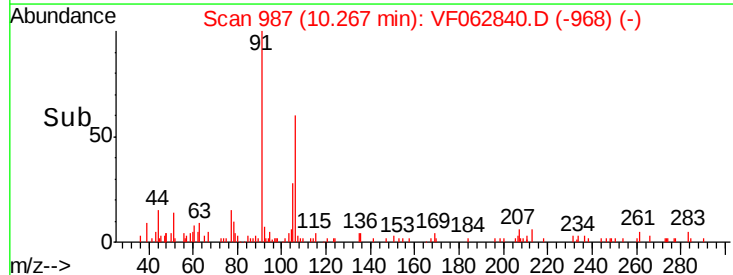
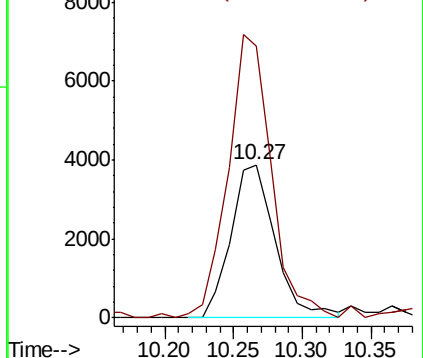
106 100

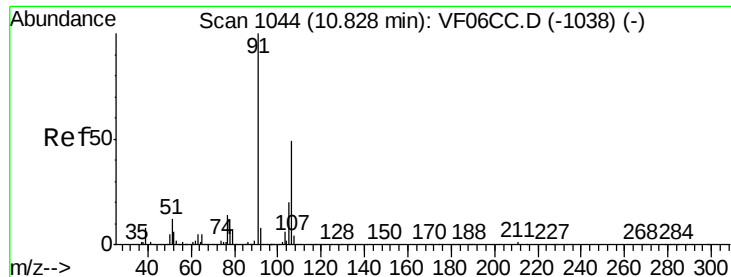
91 177.2 136.2 204.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

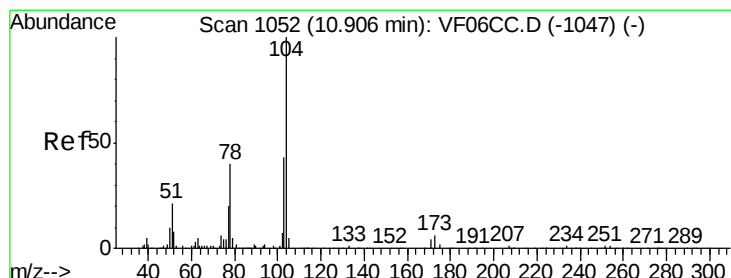
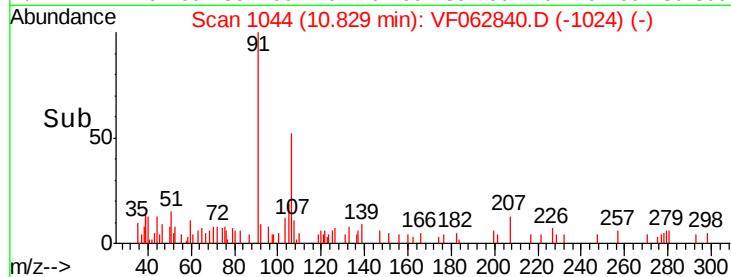
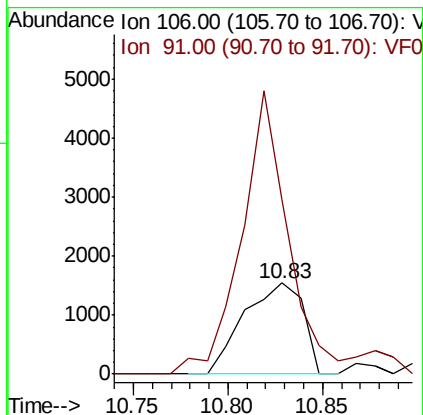
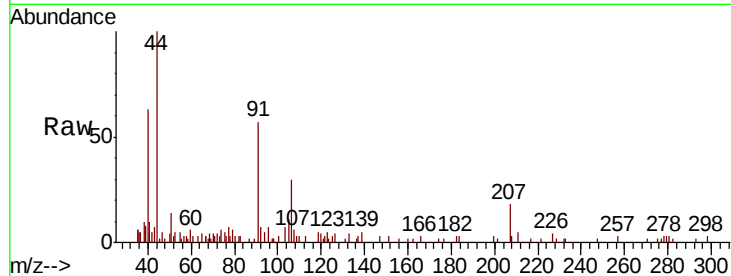




#69
o-Xylene
Concen: 1.976 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. -0.00 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

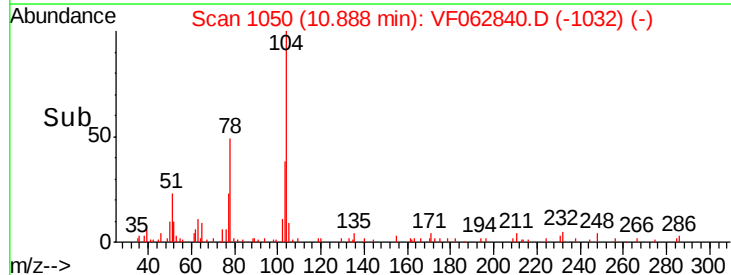
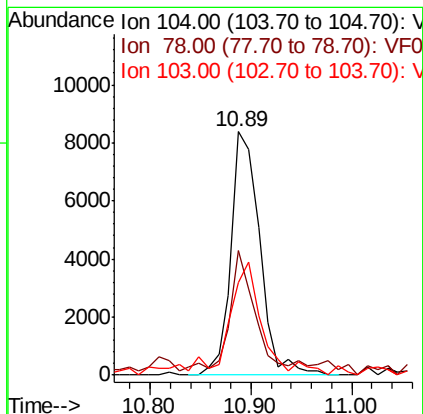
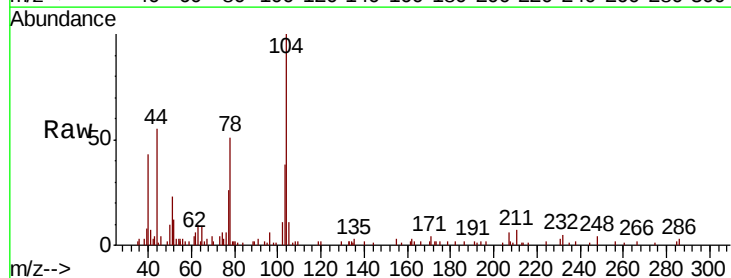
Instrument :
MSVOA_F
ClientSampled :

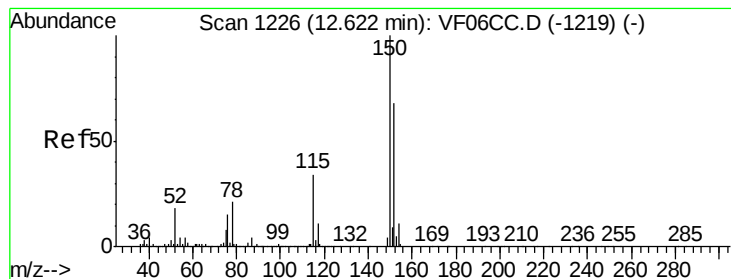
Tot Ion:106 Resp: 3347
Ion Ratio Lower Upper
106 100
91 191.7 96.6 289.8



#70
Styrene
Concen: 6.672 ug/l
RT: 10.89 min Scan# 1050
Delta R.T. -0.02 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Tgt Ion:104 Resp: 16661
Ion Ratio Lower Upper
104 100
78 51.1 30.8 46.2#
103 37.8 35.8 53.6



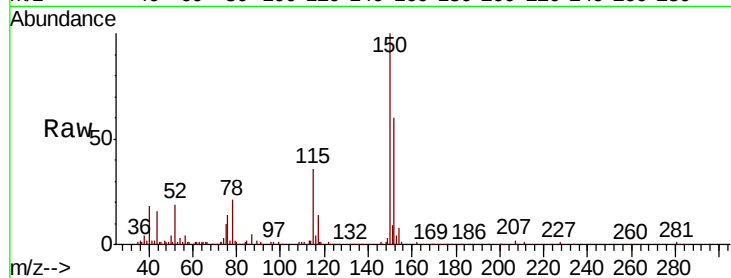


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.5	24.6	74.0
150	167.4	0.0	290.6

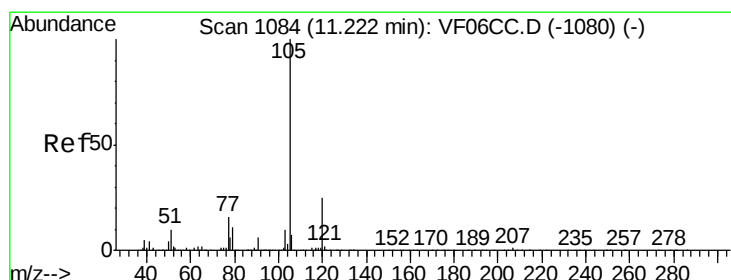
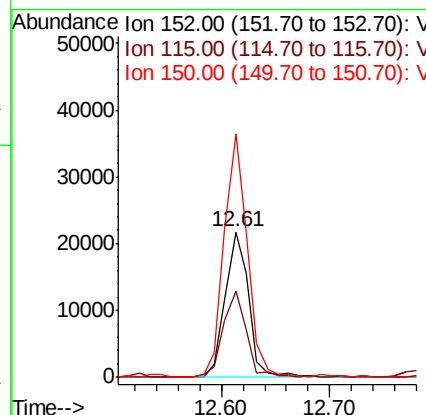
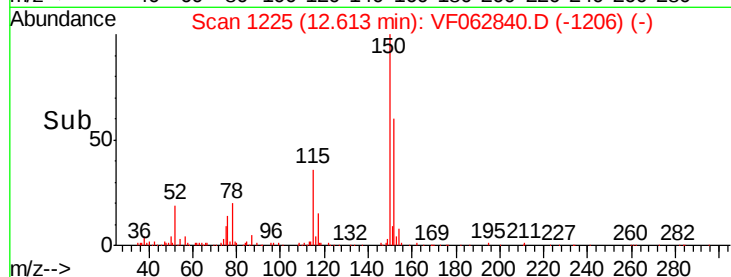


Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

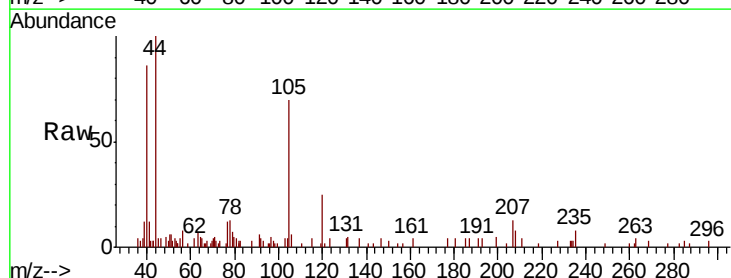
Ion 150.00 (149.70 to 150.70): V



#73

Isopropylbenzene
Concen: 3.131 ug/l
RT: 11.22 min Scan# 1084
Delta R.T. -0.01 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

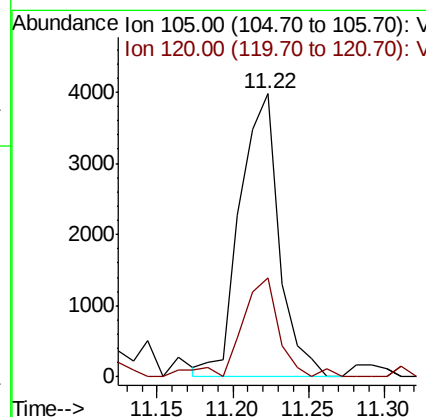
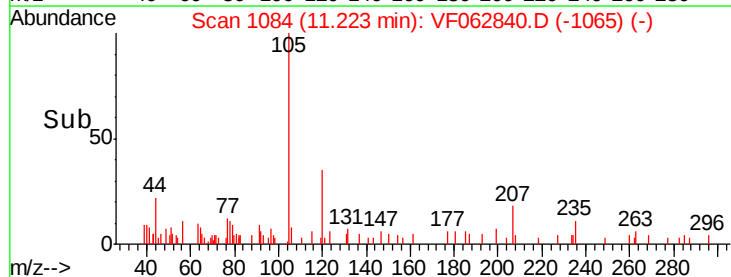
Tgt Ion	Ratio	Lower	Upper
105	100		
120	35.1	15.1	45.3

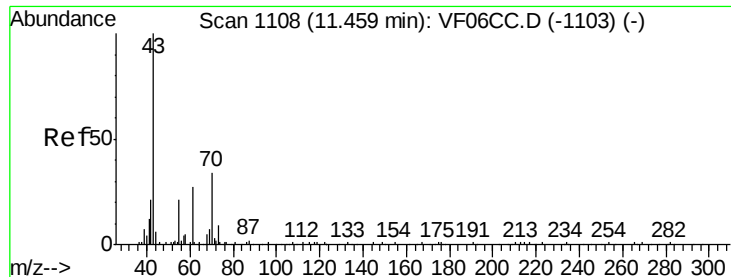


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 23.324 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :

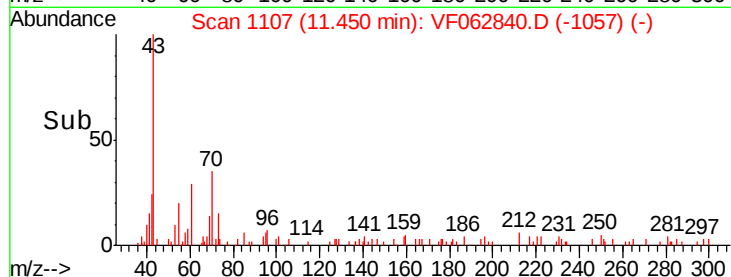
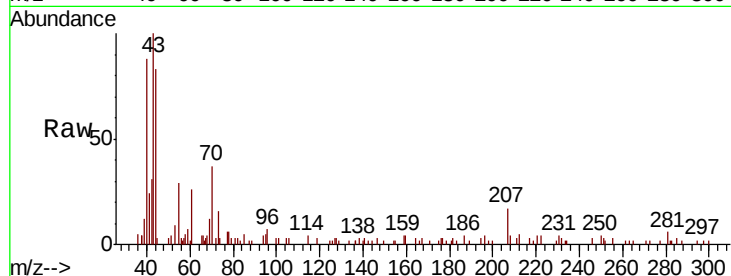
MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 15102

Ion Ratio Lower Upper

43	100		
70	37.0	32.9	49.3
55	29.1	17.3	25.9
61	26.1	23.7	35.5

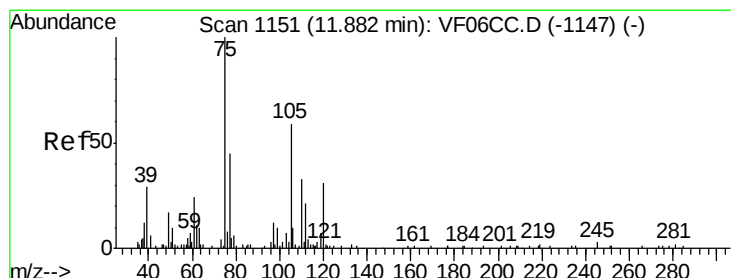
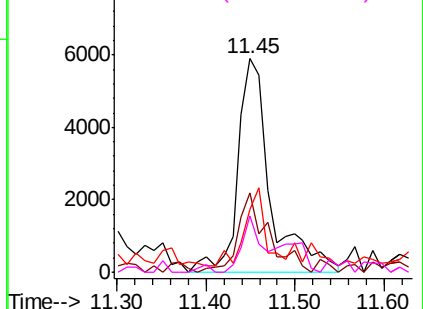


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#76

1,2,3-Trichloropropane

Concen: 1.368 ug/l

RT: 11.93 min Scan# 1156

Delta R.T. 0.05 min

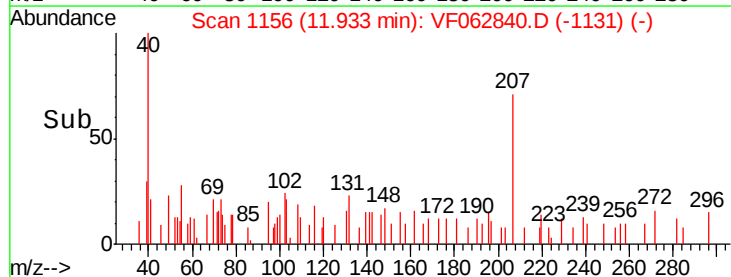
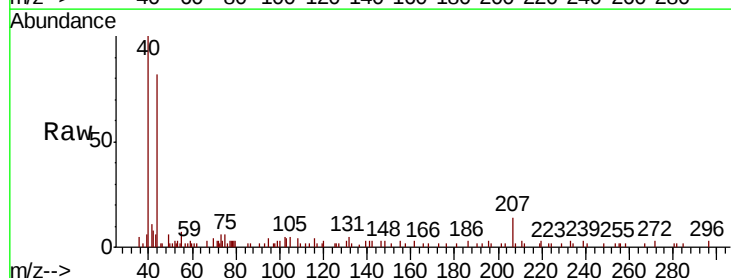
Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Tgt Ion: 75 Resp: 445

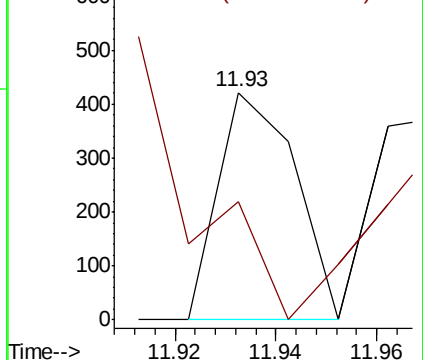
Ion Ratio Lower Upper

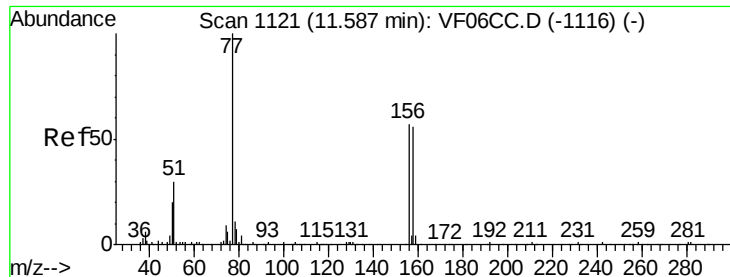
75	100		
77	52.1	20.1	60.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 2.668 ug/l

RT: 11.58 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :

MSVOA_F

ClientSampleId :

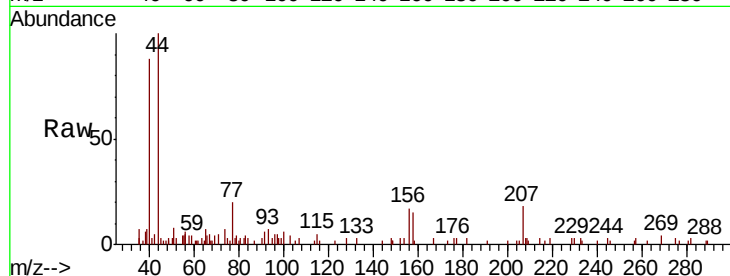
Tot Ion:156 Resp: 1540

Ion Ratio Lower Upper

156 100

77 119.8 64.2 192.6

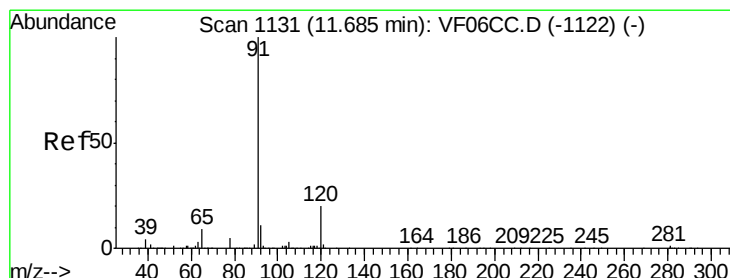
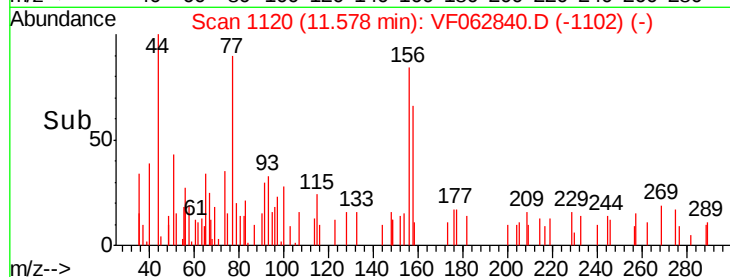
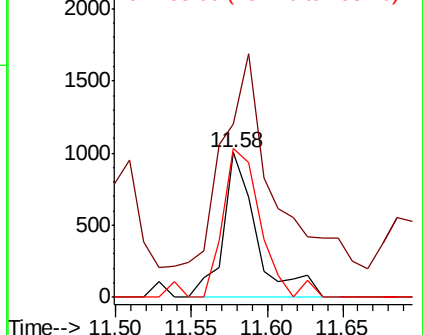
158 102.6 50.3 151.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 4.429 ug/l

RT: 11.68 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF062840.D

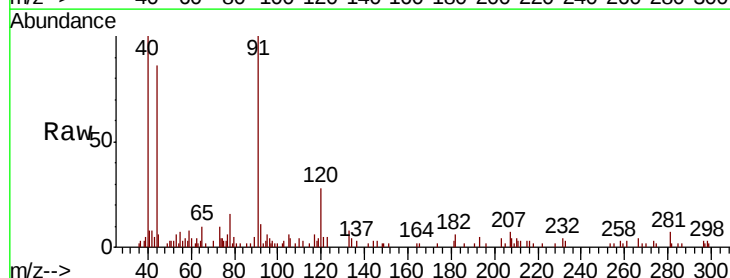
Acq: 4 Jun 2019 15:52

Tgt Ion: 91 Resp: 12284

Ion Ratio Lower Upper

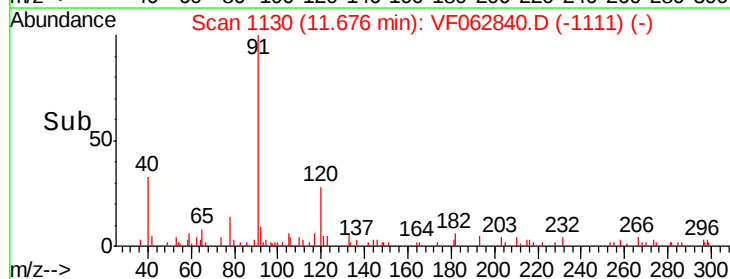
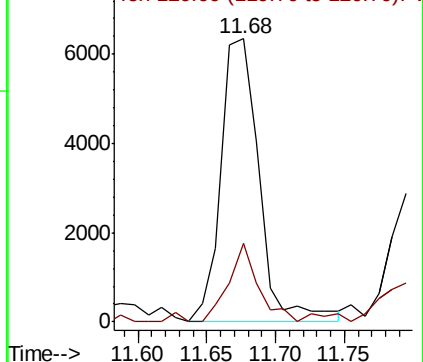
91 100

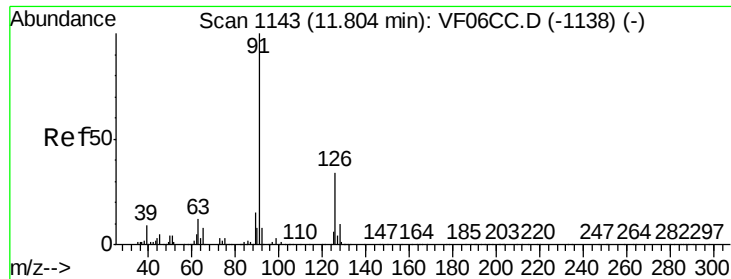
120 27.8 12.8 38.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

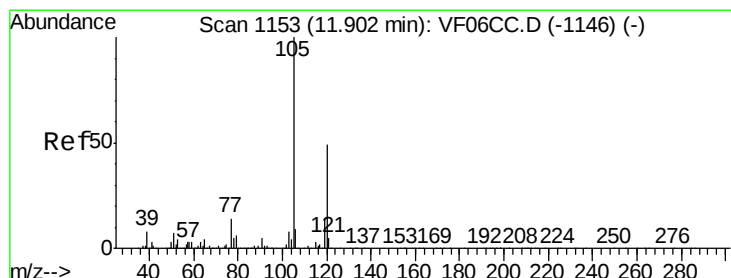
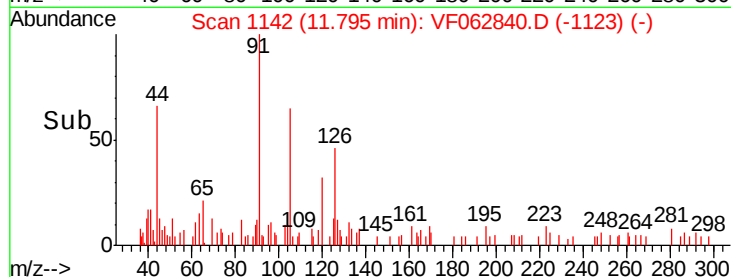
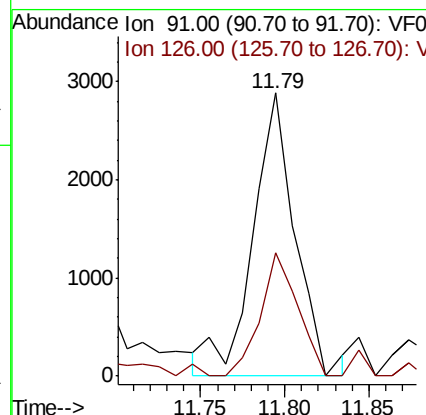
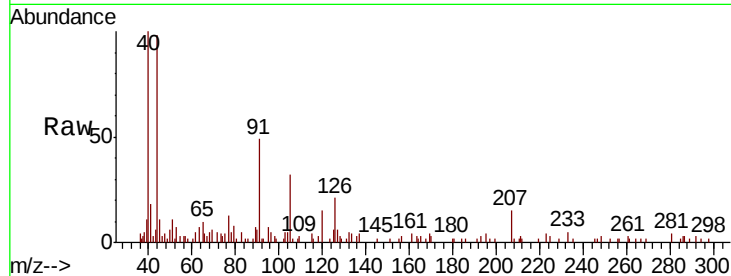




#79
 2-Chlorotoluene
 Concen: 3.179 ug/l
 RT: 11.79 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VF062840.D
 Acq: 4 Jun 2019 15:52

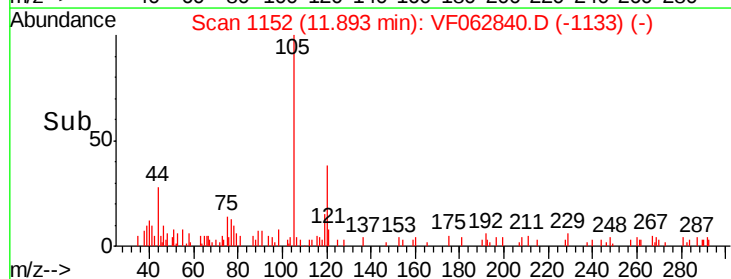
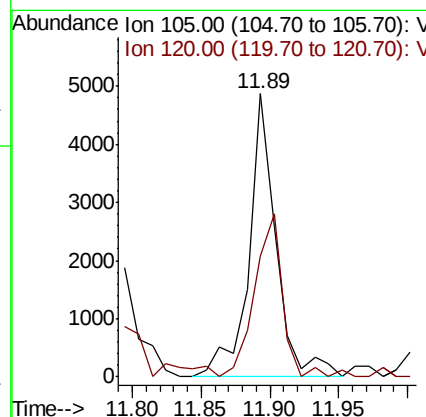
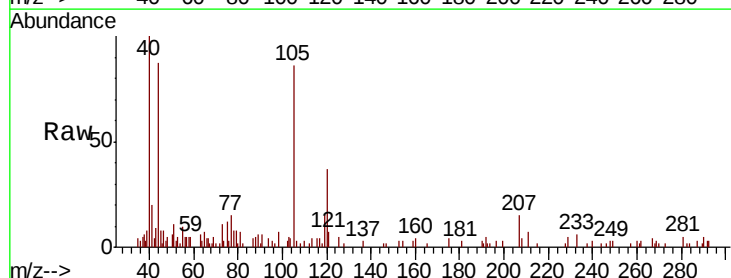
Instrument :
 MSVOA_F
 ClientSampleId :

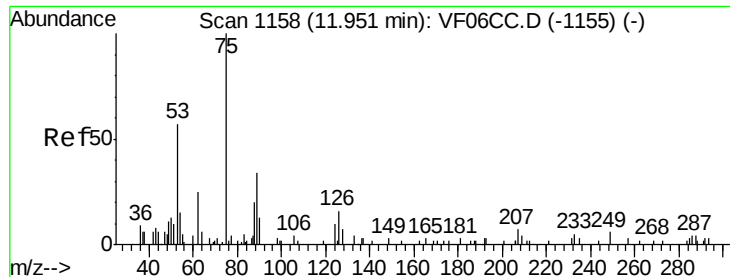
Tot Ion: 91 Resp: 5046
 Ion Ratio Lower Upper
 91 100
 126 43.6 17.8 53.3



#80
 1,3,5-Trimethylbenzene
 Concen: 3.589 ug/l
 RT: 11.89 min Scan# 1152
 Delta R.T. -0.01 min
 Lab File: VF062840.D
 Acq: 4 Jun 2019 15:52

Tgt Ion: 105 Resp: 6743
 Ion Ratio Lower Upper
 105 100
 120 42.6 28.7 86.1





#81

trans-1,4-Dichloro-2-butene

Concen: 11.215 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.06 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :

MSVOA_F

ClientSampled :

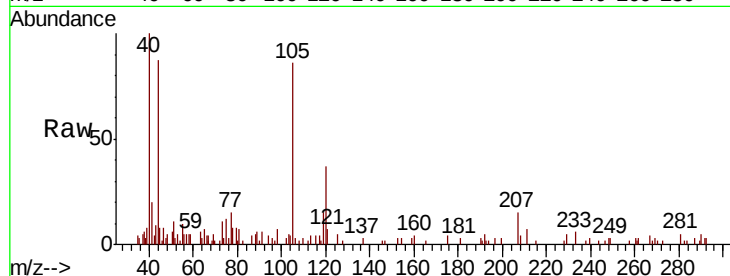
Tot Ion: 75 Resp: 1544

Ion Ratio Lower Upper

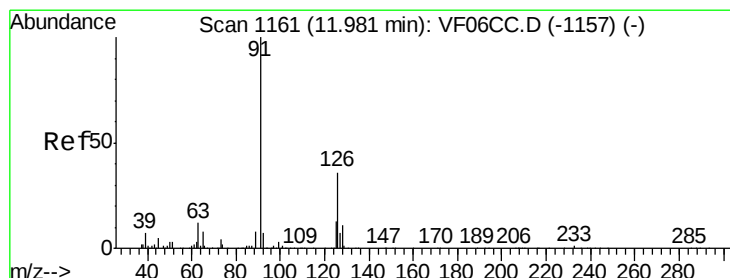
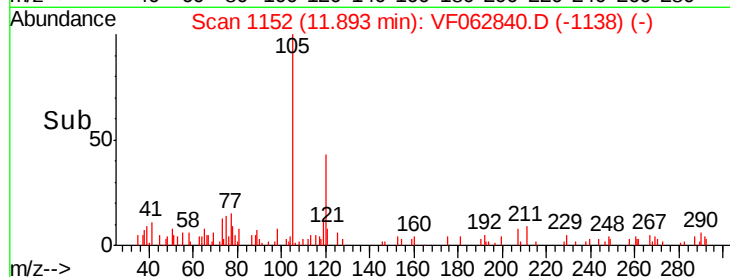
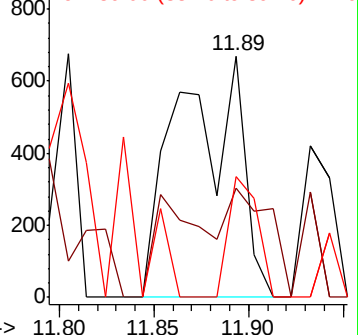
75 100

53 45.3 43.5 65.3

89 50.4 34.3 51.5



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 53.00 (52.70 to 53.70): VF0
Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 3.210 ug/l

RT: 11.97 min Scan# 1160

Delta R.T. -0.01 min

Lab File: VF062840.D

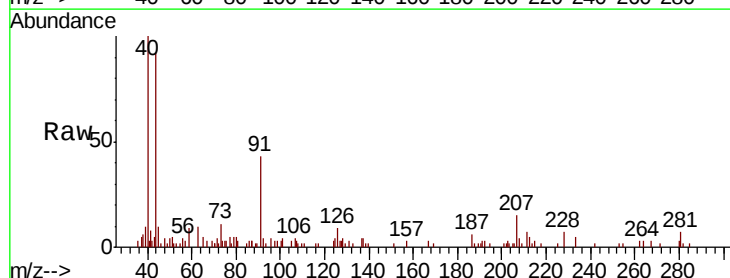
Acq: 4 Jun 2019 15:52

Tgt Ion: 91 Resp: 5007

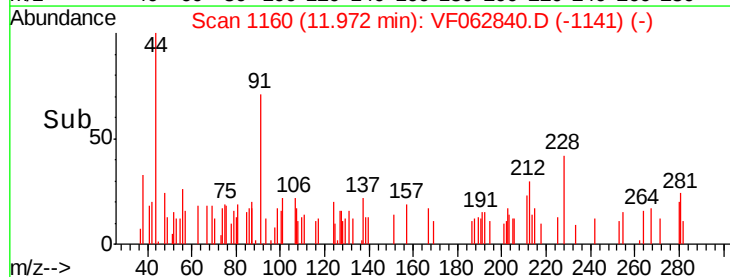
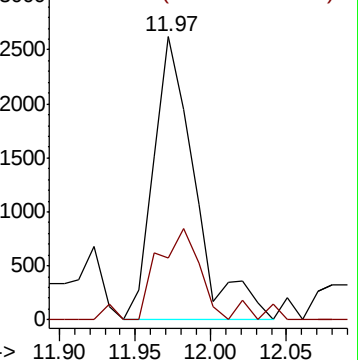
Ion Ratio Lower Upper

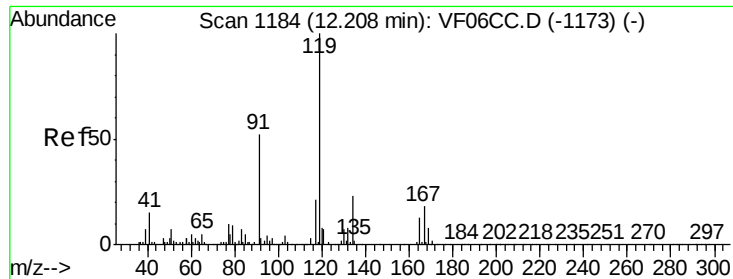
91 100

126 21.7 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 126.00 (125.70 to 126.70): V

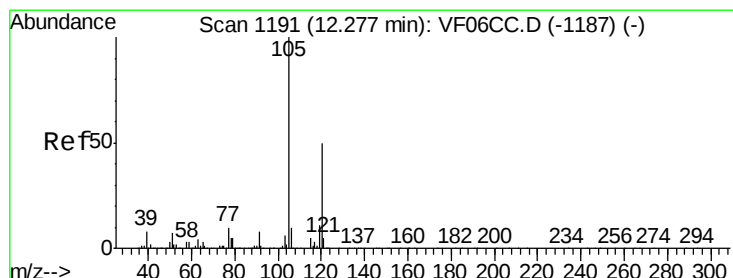
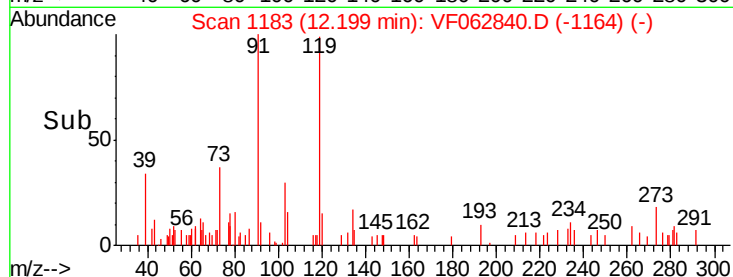
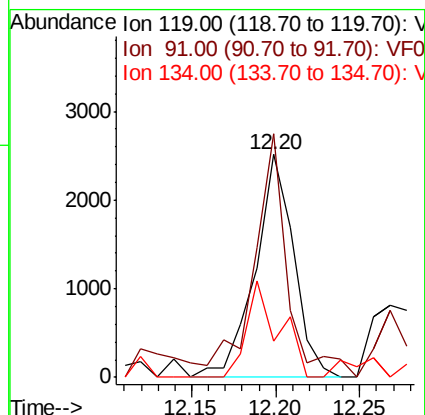
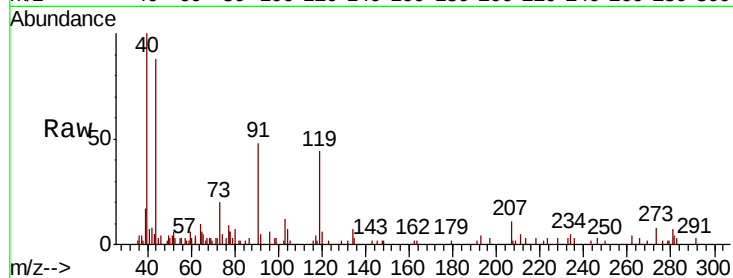




#83
tert-Butylbenzene
Concen: 2.157 ug/l
RT: 12.20 min Scan# 1183
Delta R.T. -0.01 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

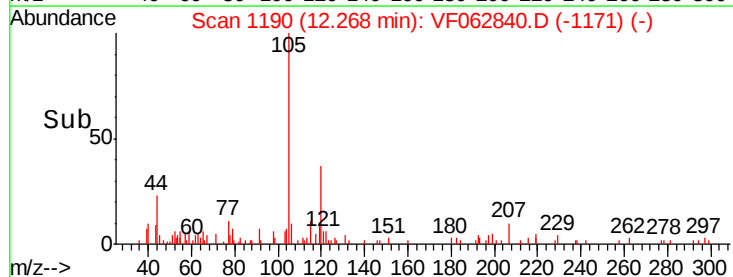
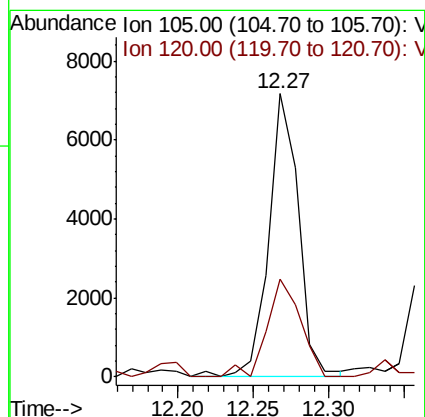
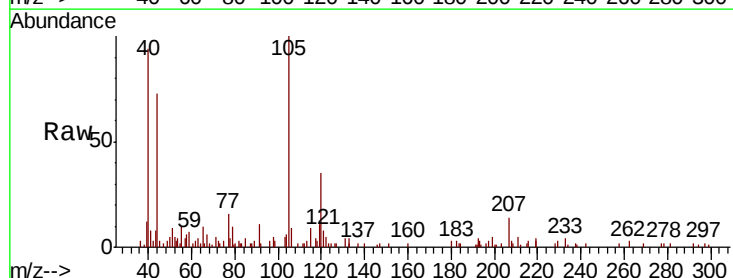
Instrument :
MSVOA_F
ClientSampleId :

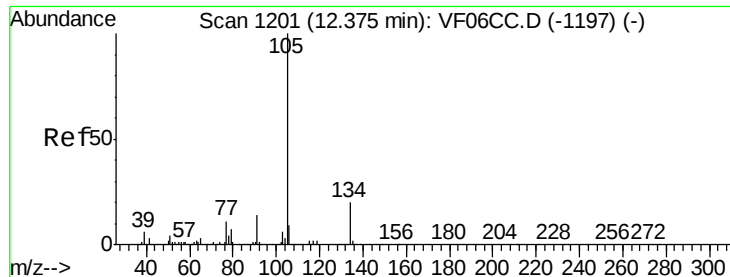
Tot Ion:119 Resp: 4016
Ion Ratio Lower Upper
119 100
91 109.3 28.9 86.7#
134 16.1 14.3 42.9



#84
1,2,4-Trimethylbenzene
Concen: 5.577 ug/l
RT: 12.27 min Scan# 1190
Delta R.T. -0.01 min
Lab File: VF062840.D
Acq: 4 Jun 2019 15:52

Tgt Ion:105 Resp: 9934
Ion Ratio Lower Upper
105 100
120 34.5 27.1 81.3





#85

sec-Butylbenzene

Concen: 3.245 ug/l

RT: 12.38 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :

MSVOA_F

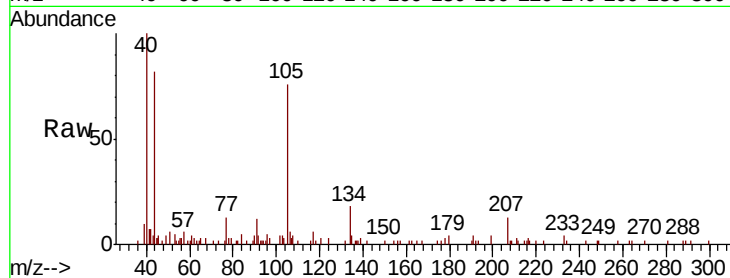
ClientSampled :

Tot Ion:105 Resp: 7959

Ion Ratio Lower Upper

105 100

134 23.3 10.5 31.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

8000

6000

4000

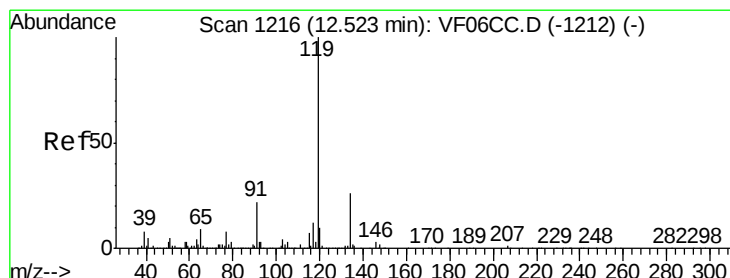
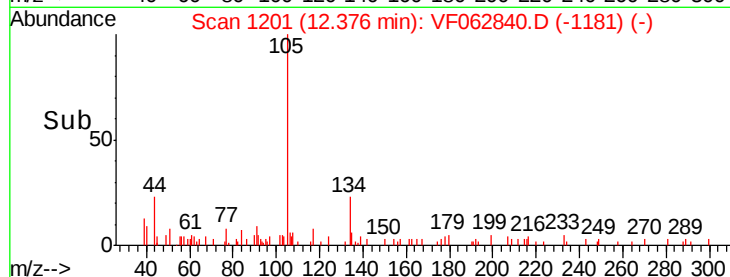
2000

0

12.30

12.40

Time-->



#86

p-Isopropyltoluene

Concen: 3.435 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

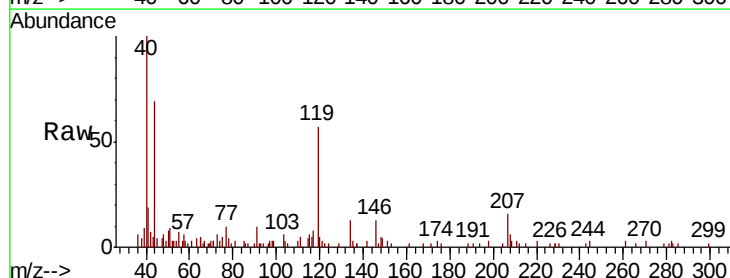
Tgt Ion:119 Resp: 7013

Ion Ratio Lower Upper

119 100

134 22.4 15.5 46.5

91 17.8 10.3 30.9



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): VF0

5000

4000

3000

2000

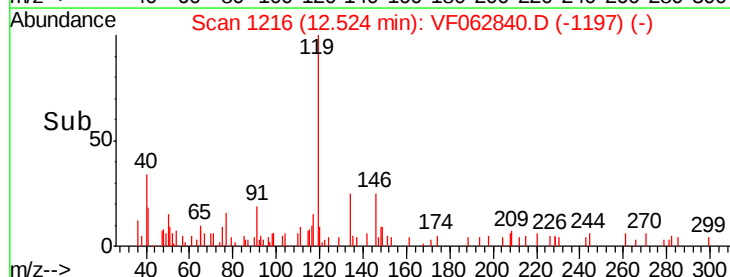
1000

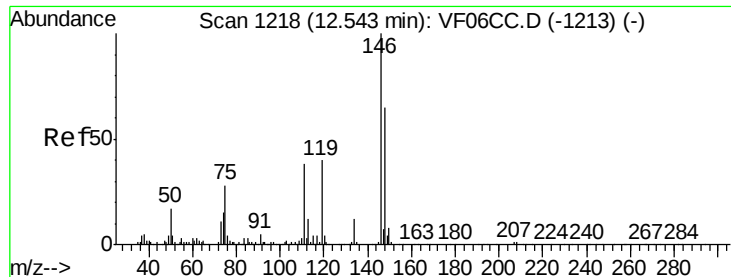
0

12.40

12.50

Time-->

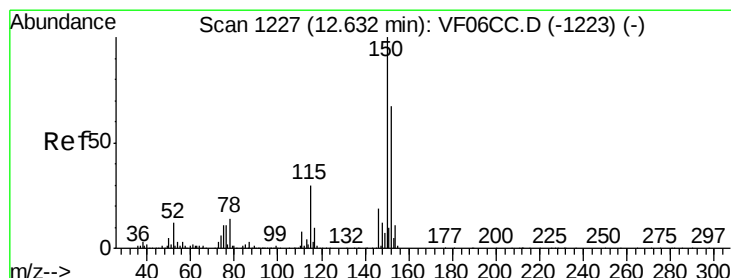
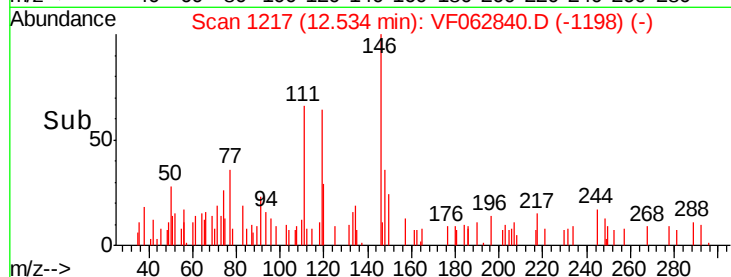
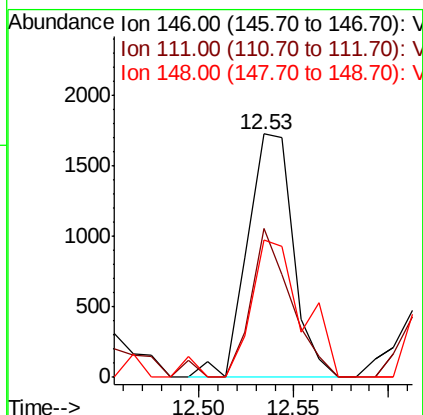
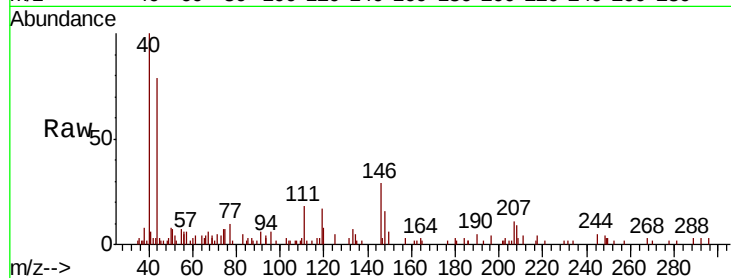




#87
 1,3-Dichlorobenzene
 Concen: 2.864 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. -0.01 min
 Lab File: VF062840.D
 Acq: 4 Jun 2019 15:52

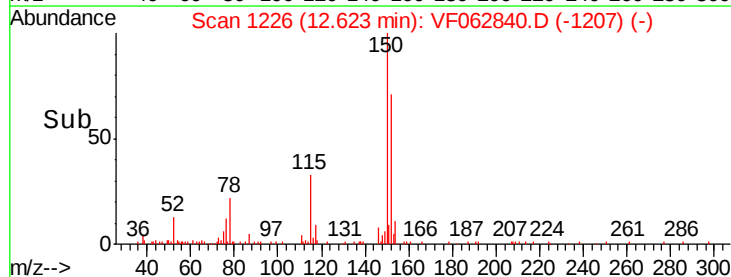
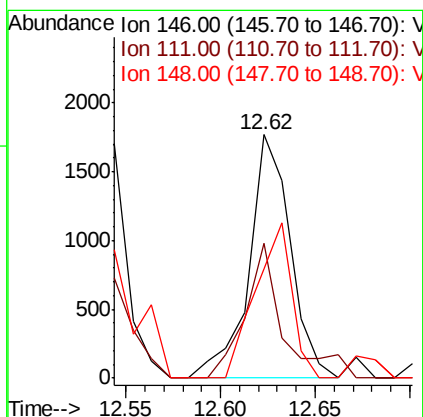
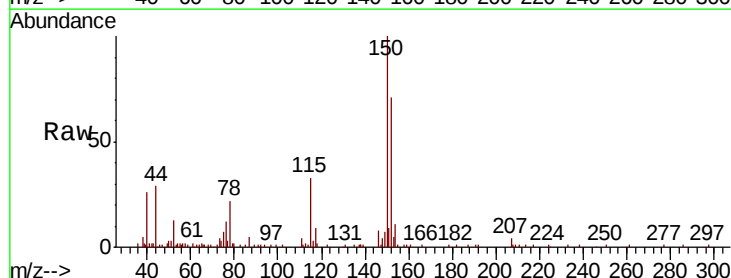
Instrument :
 MSVOA_F
 ClientSampled :

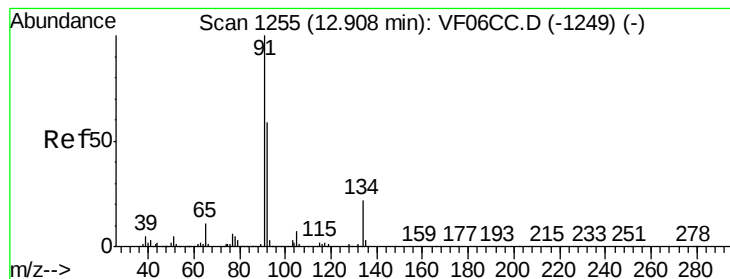
Tot Ion:146 Resp: 2916
 Ion Ratio Lower Upper
 146 100
 111 61.4 19.6 58.8#
 148 56.5 34.2 102.5



#88
 1,4-Dichlorobenzene
 Concen: 2.840 ug/l
 RT: 12.62 min Scan# 1226
 Delta R.T. -0.01 min
 Lab File: VF062840.D
 Acq: 4 Jun 2019 15:52

Tgt Ion:146 Resp: 2698
 Ion Ratio Lower Upper
 146 100
 111 63.8 20.3 60.9#
 148 44.7 34.0 101.8





#89

n-Butylbenzene

Concen: 2.200 ug/l

RT: 12.90 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :

MSVOA_F

ClientSampleId :

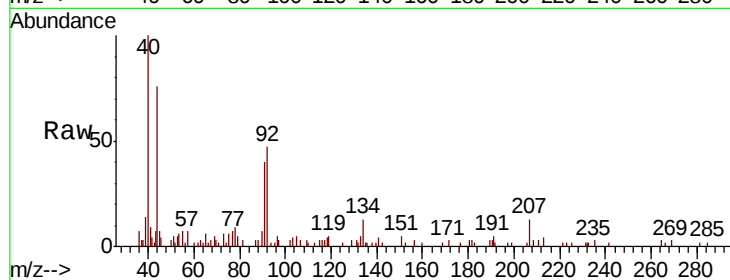
Tot Ion: 91 Resp: 4518

Ion Ratio Lower Upper

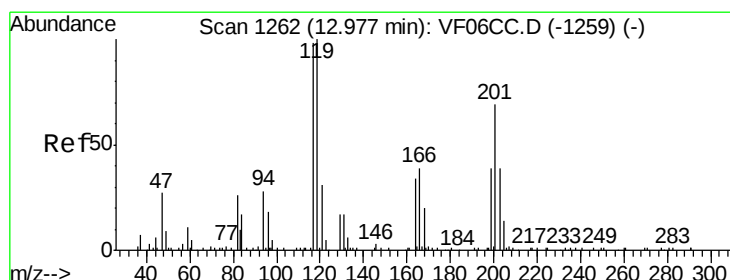
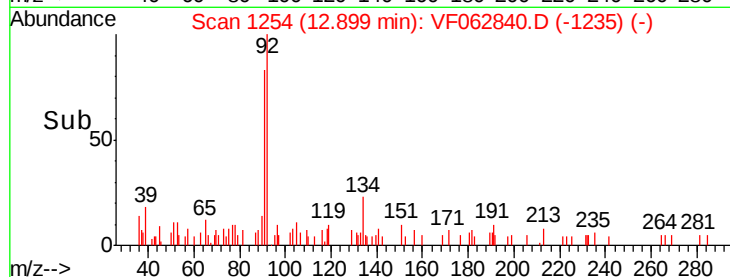
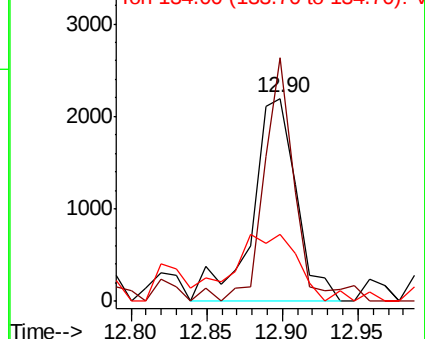
91 100

92 119.9 34.2 102.6#

134 32.9 15.8 47.3



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



#90

Hexachloroethane

Concen: 2.607 ug/l

RT: 12.97 min Scan# 1261

Delta R.T. -0.02 min

Lab File: VF062840.D

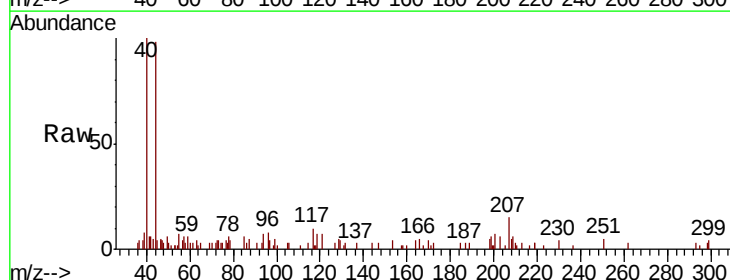
Acq: 4 Jun 2019 15:52

Tgt Ion: 117 Resp: 1298

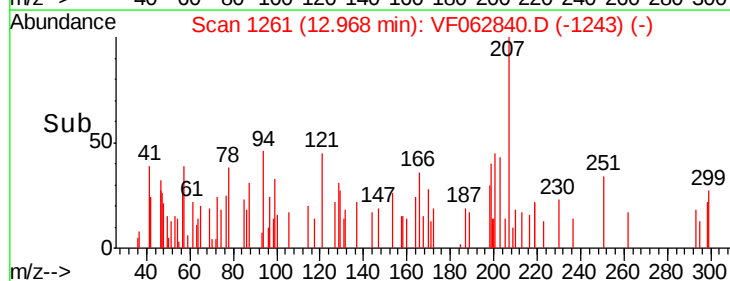
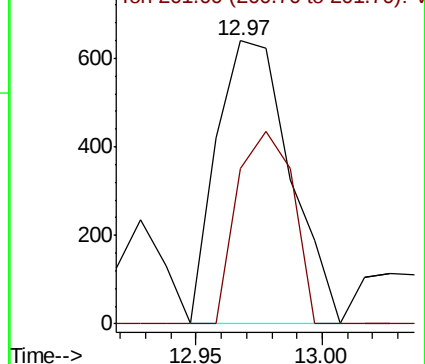
Ion Ratio Lower Upper

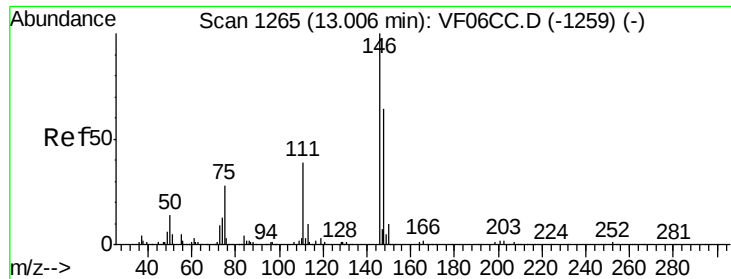
117 100

201 55.1 38.9 116.7



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 2.367 ug/l

RT: 13.00 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VF062840.D

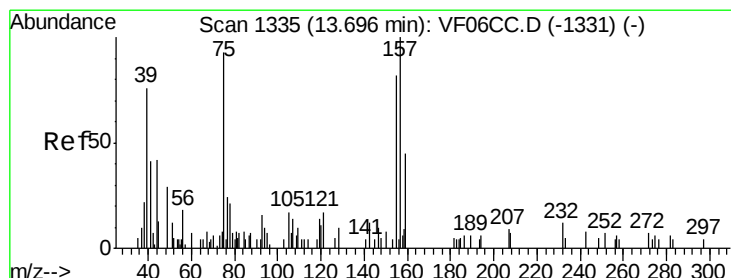
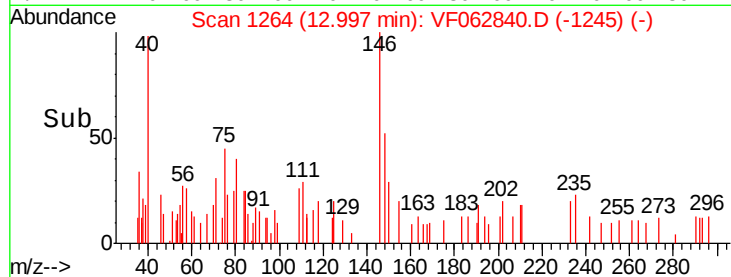
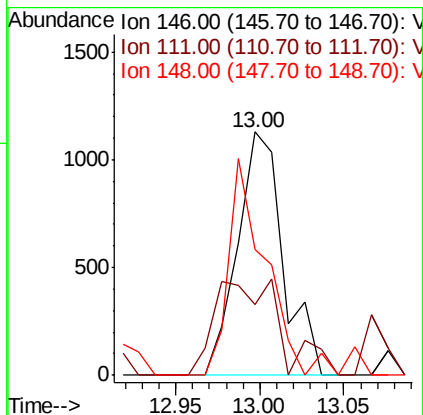
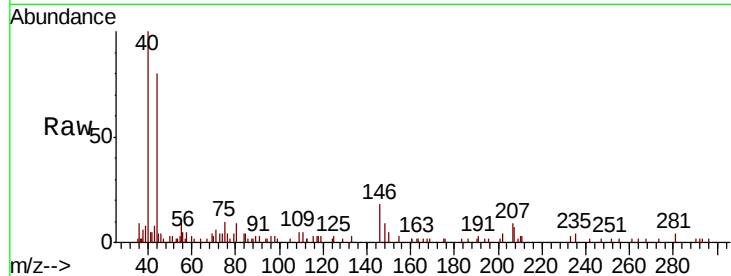
Acq: 4 Jun 2019 15:52

Instrument :

MSVOA_F

ClientSampled :

Tot Ion:	146	Resp:	2118
Ion	Ratio	Lower	Upper
146	100		
111	29.1	20.4	61.3
148	51.6	34.1	102.3



#92

1,2-Dibromo-3-Chloropropane

Concen: 8.812 ug/l

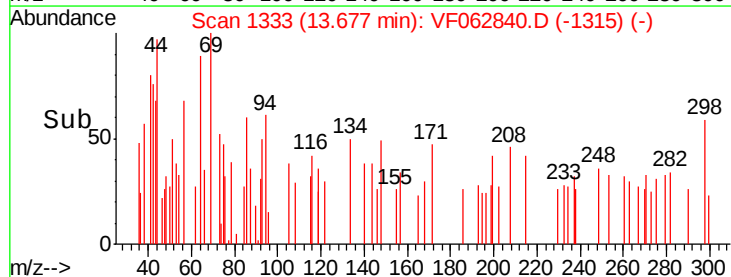
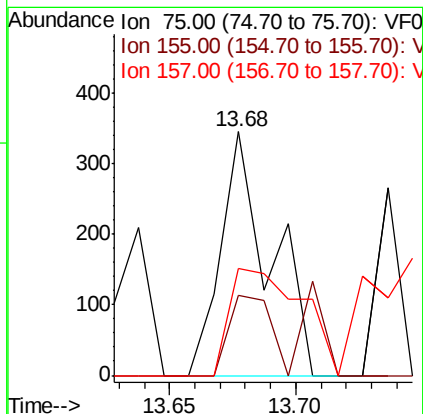
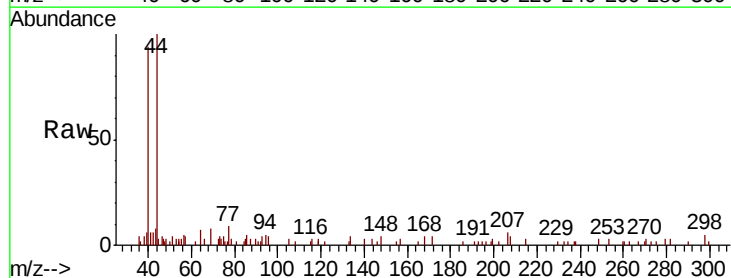
RT: 13.68 min Scan# 1333

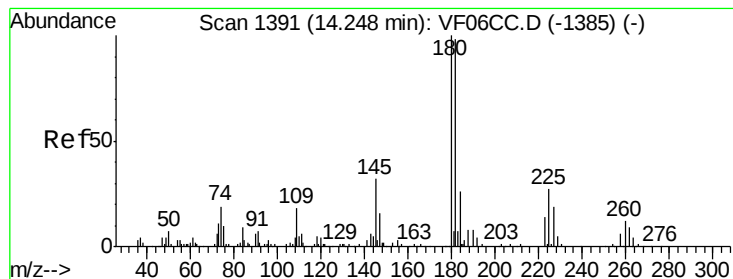
Delta R.T. -0.02 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Tgt Ion:	75	Resp:	471
Ion	Ratio	Lower	Upper
75	100		
155	33.0	51.7	155.1#
157	43.8	66.8	200.6#





#93

1,2,4-Trichlorobenzene

Concen: 2.311 ug/l

RT: 14.24 min Scan# 1390

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :

MSVOA_F

ClientSampled :

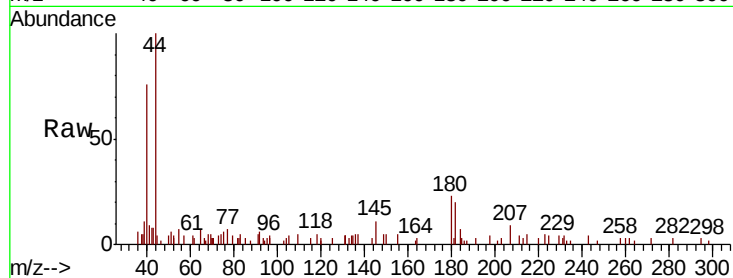
Tot Ion:180 Resp: 1420

Ion Ratio Lower Upper

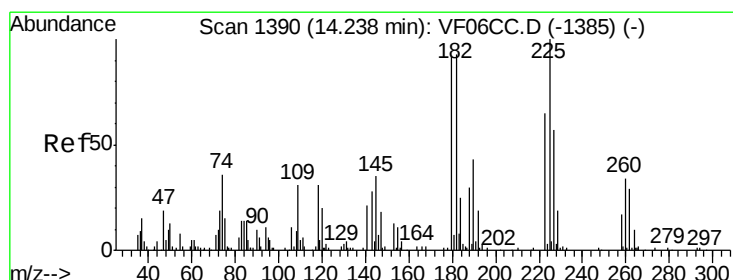
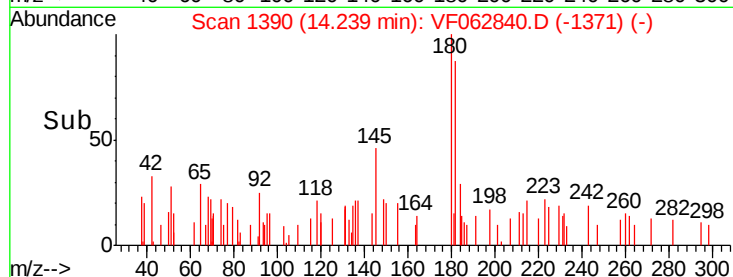
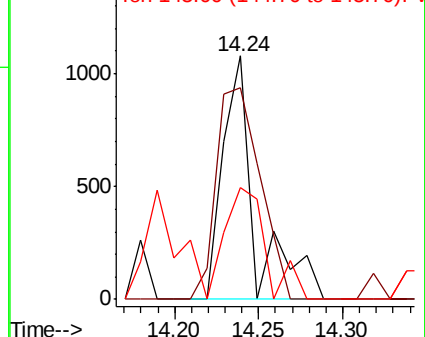
180 100

182 87.1 50.3 150.9

145 46.1 15.4 46.2



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



#94

Hexachlorobutadiene

Concen: 1.202 ug/l

RT: 14.23 min Scan# 1389

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

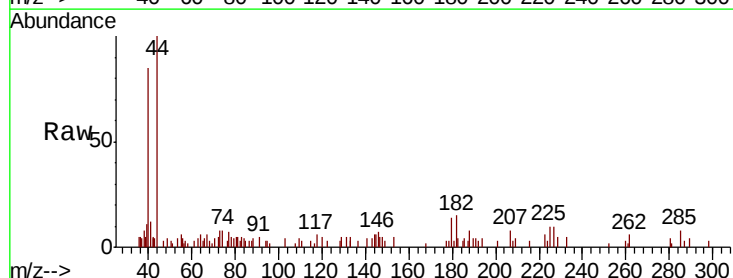
Tgt Ion:225 Resp: 511

Ion Ratio Lower Upper

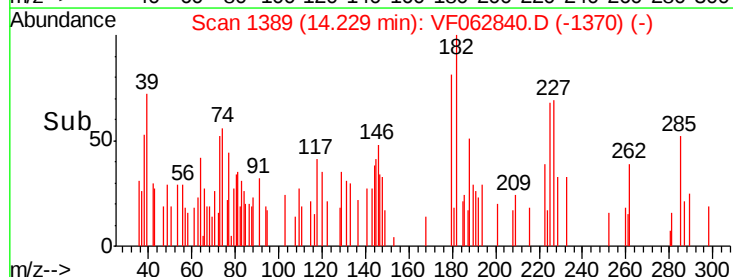
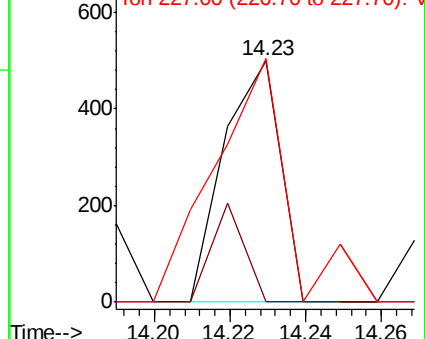
225 100

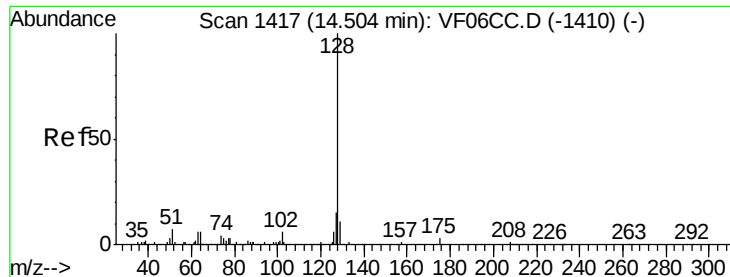
223 0.0 30.8 92.4#

227 100.8 31.9 95.5#



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 14.202 ug/l

RT: 14.50 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

Instrument :

MSVOA_F

ClientSampleId :

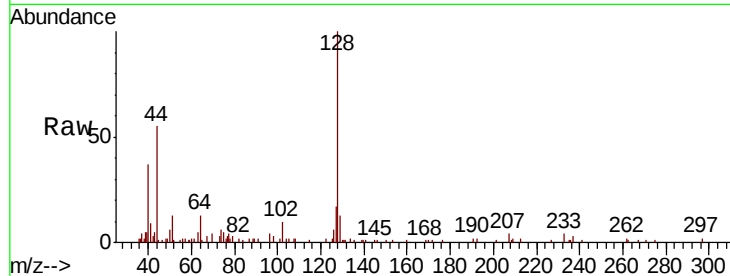
Tot Ion:128 Resp: 14294

Ion Ratio Lower Upper

128 100

127 17.2 9.7 14.5#

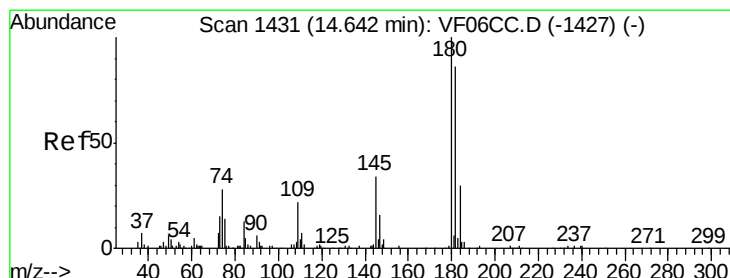
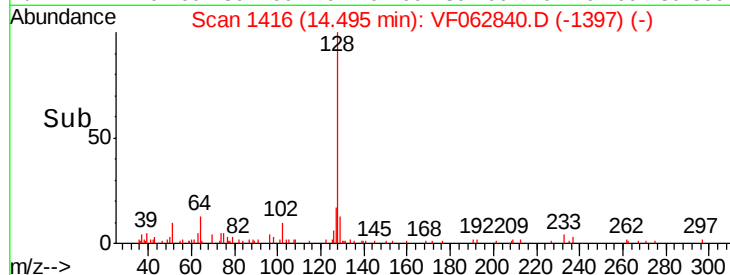
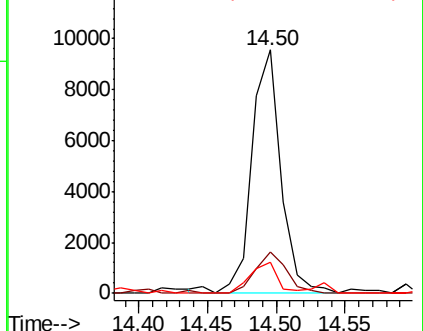
129 12.6 9.4 14.2



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



#96

1,2,3-Trichlorobenzene

Concen: 2.061 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VF062840.D

Acq: 4 Jun 2019 15:52

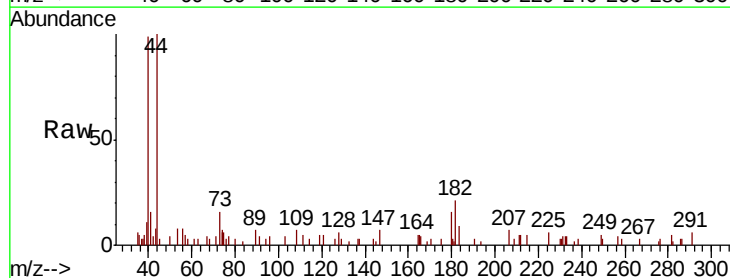
Tgt Ion:180 Resp: 1156

Ion Ratio Lower Upper

180 100

182 111.7 48.6 145.9

145 12.7 15.7 47.0#



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

