

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052319\
 Data File : VF062733.D
 Acq On : 23 May 2019 18:10
 Operator : FY/SY
 Sample : K3019-04
 Misc : 5.21g/5mL/MSVOA F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 24 02:16:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	92300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	109536	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	53060	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	12617	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	9799	15.02	ug/l	0.00
Spiked Amount			Recovery	=	30.04%	
35) Dibromofluoromethane	4.32	113	22752	27.14	ug/l	0.00
Spiked Amount			Recovery	=	54.28%	
50) Toluene-d8	7.72	98	82546	41.25	ug/l	0.00
Spiked Amount			Recovery	=	82.50%	
62) 4-Bromofluorobenzene	11.49	95	14322	18.87	ug/l	0.00
Spiked Amount			Recovery	=	37.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.43	94	798	1.370	ug/l #	41
6) Chloroethane	1.37	64	485	1.240	ug/l	92
8) Diethyl Ether	1.73	74	533	1.882	ug/l	68
11) Tert butyl alcohol	2.67	59	594	13.794	ug/l #	70
12) 1,1-Dichloroethene	1.86	96	2508	3.025	ug/l #	7
13) Acrolein	2.09	56	2017	44.872	ug/l	98
15) Acrylonitrile	3.10	53	244	2.009	ug/l #	16
16) Acetone	2.45	43	995	5.880	ug/l	97
18) Methyl Acetate	2.45	43	995	3.742	ug/l #	52
20) Methylene Chloride	2.31	84	4168	4.914	ug/l #	87
25) 2-Butanone	4.52	43	2175	6.016	ug/l #	50
29) Tetrahydrofuran	4.26	42	746	5.099	ug/l #	80
37) Ethyl Acetate	4.31	43	1247	2.721	ug/l #	25
41) Methacrylonitrile	5.01	41	1951	8.120	ug/l #	60
43) Isopropyl Acetate	7.07	43	1217	2.050	ug/l #	43
46) Dibromomethane	6.25	93	526	1.179	ug/l #	25
48) Methyl methacrylate	6.90	41	1488	4.795	ug/l #	35
49) 1,4-Dioxane	6.87	88	123	30.946	ug/l #	69
51) 4-Methyl-2-Pentanone	8.39	43	427	1.052	ug/l #	32
58) 2-Chloroethyl Vinyl ether	7.46	63	279	1.515	ug/l #	1
59) 2-Hexanone	9.66	43	1719	Below Cal	#	23
73) Isopropylbenzene	11.21	105	1194	1.320	ug/l	88
74) N-amyl acetate	11.46	43	1100	Below Cal	#	61
75) 1,1,2,2-Tetrachloroethane	11.75	83	1515	8.198	ug/l #	42
76) 1,2,3-Trichloropropane	11.88	75	663	5.460	ug/l #	67
78) n-propylbenzene	11.67	91	2270	2.121	ug/l #	73
79) 2-Chlorotoluene	11.78	91	667	1.106	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.90	105	3686	5.083	ug/l	84
81) trans-1,4-Dichloro-2-buten	11.96	75	648	12.006	ug/l #	40
83) tert-Butylbenzene	12.20	119	904	1.229	ug/l	76
84) 1,2,4-Trimethylbenzene	12.27	105	9661	13.766	ug/l	84
85) sec-Butylbenzene	12.37	105	2743	2.778	ug/l #	45
86) p-Isopropyltoluene	12.52	119	2185	2.626	ug/l	93
89) n-Butylbenzene	12.89	91	1394	1.699	ug/l #	58

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QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration

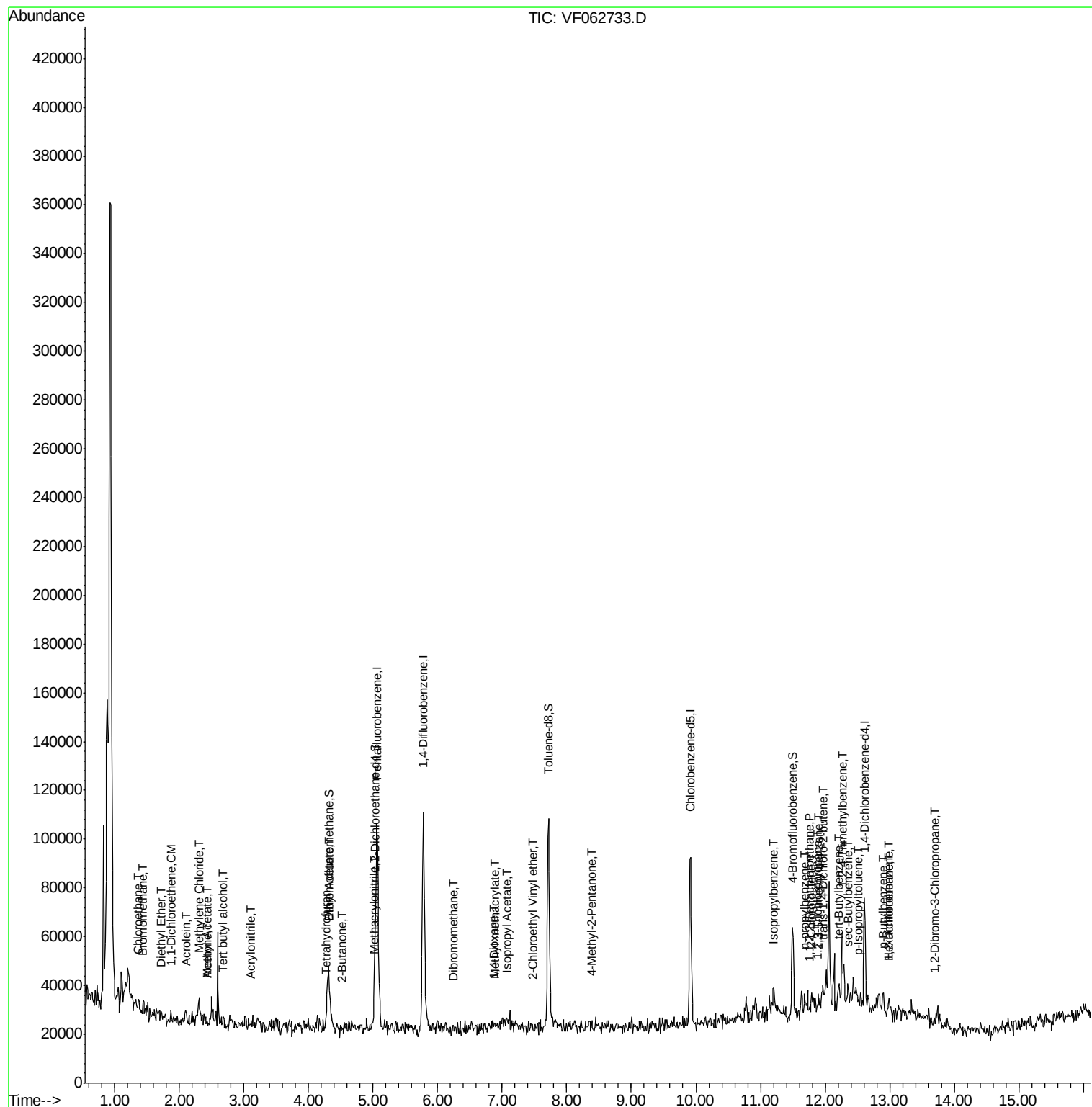
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Hexachloroethane	12.97	117	255	1.278	ug/l #	20
91) 1,2-Dichlorobenzene	12.97	146	452	1.247	ug/l #	43
92) 1,2-Dibromo-3-Chloropropan	13.69	75	225	10.206	ug/l #	17

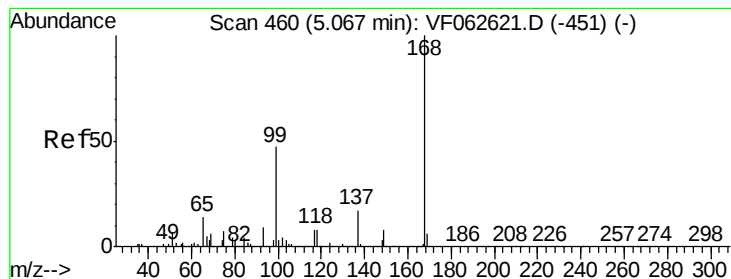
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF062733.D

Acq: 23 May 2019 18:10

Instrument :

MSVOA_F

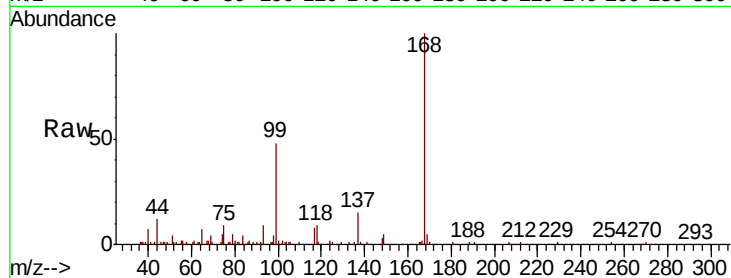
ClientSampleId :

Tot Ion:168 Resp: 92300

Ion Ratio Lower Upper

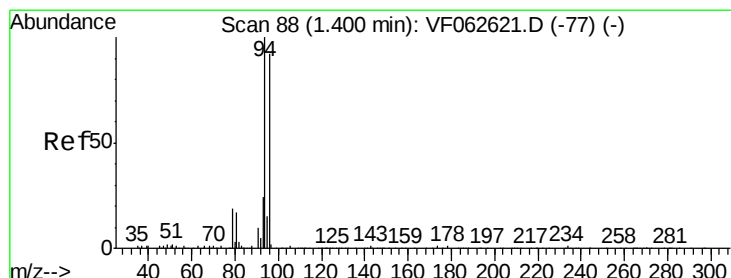
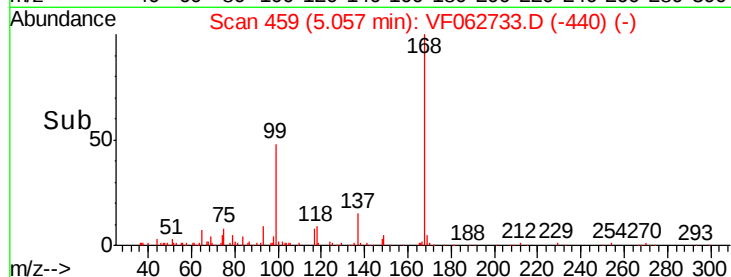
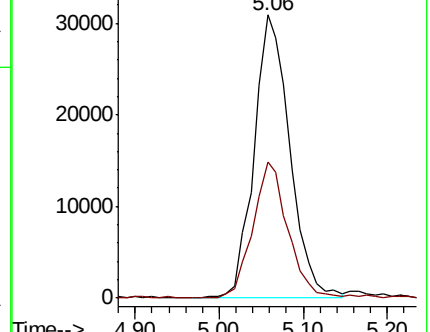
168 100

99 48.0 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#5

Bromomethane

Concen: 1.370 ug/l

RT: 1.43 min Scan# 91

Delta R.T. 0.03 min

Lab File: VF062733.D

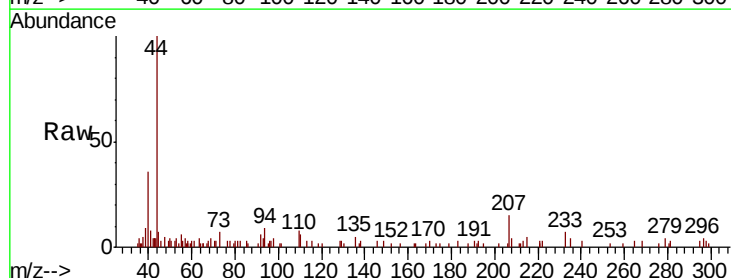
Acq: 23 May 2019 18:10

Tgt Ion: 94 Resp: 798

Ion Ratio Lower Upper

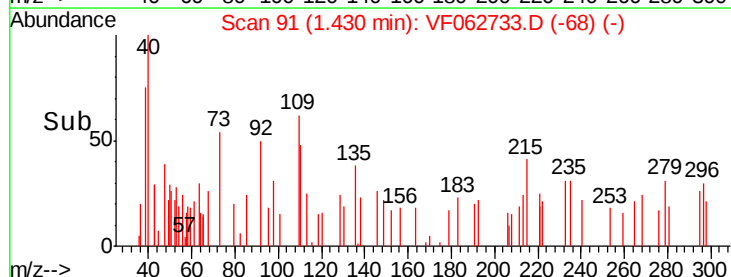
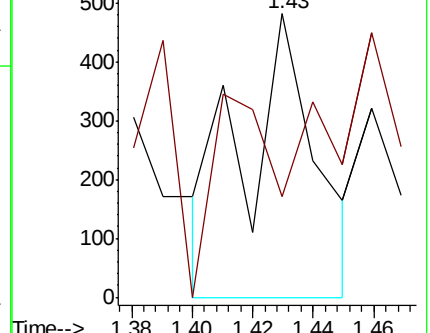
94 100

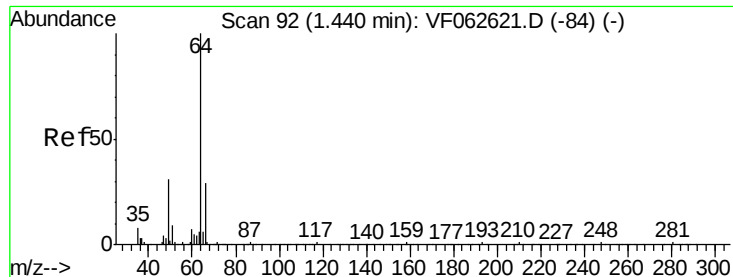
96 35.7 73.2 109.8#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0





#6

Chloroethane

Concen: 1.240 ug/l

RT: 1.37 min Scan# 85

Delta R.T. -0.07 min

Lab File: VF062733.D

Acq: 23 May 2019 18:10

Instrument :

MSVOA_F

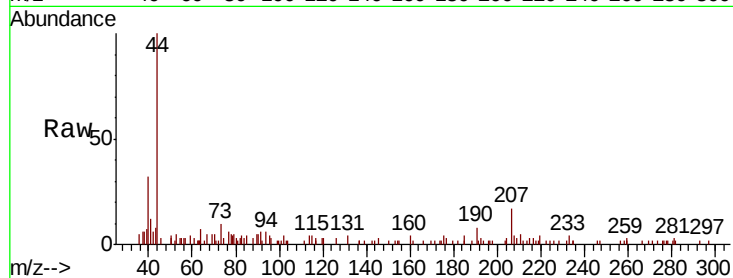
ClientSampled :

Tot Ion: 64 Resp: 485

Ion Ratio Lower Upper

64 100

66 33.8 23.4 35.2



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

600

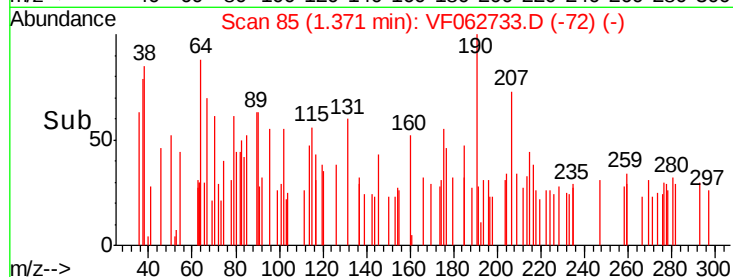
400

200

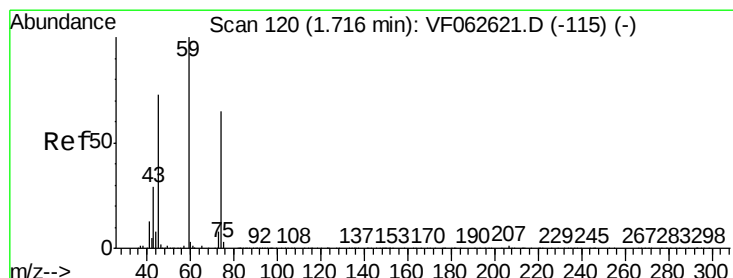
0

1.35 1.40

1.37



Time-->



#8

Diethyl Ether

Concen: 1.882 ug/l

RT: 1.73 min Scan# 121

Delta R.T. 0.01 min

Lab File: VF062733.D

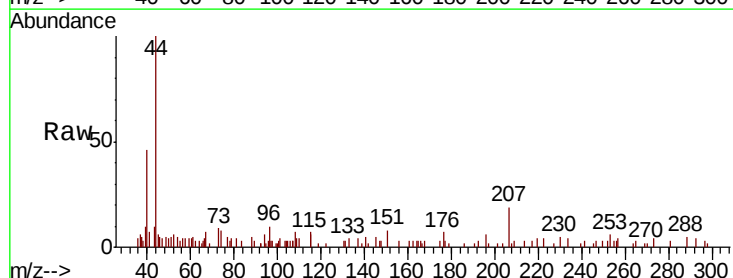
Acq: 23 May 2019 18:10

Tgt Ion: 74 Resp: 533

Ion Ratio Lower Upper

74 100

45 79.5 57.0 170.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

400

300

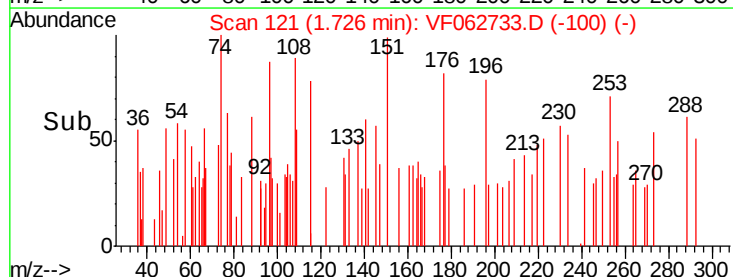
200

100

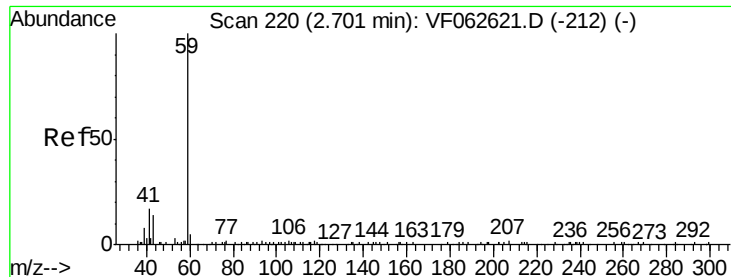
0

1.70 1.75

1.73



Time-->

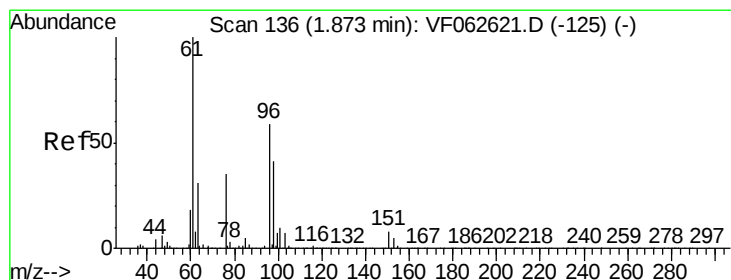
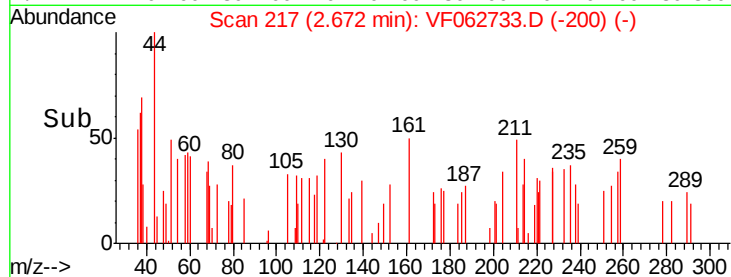
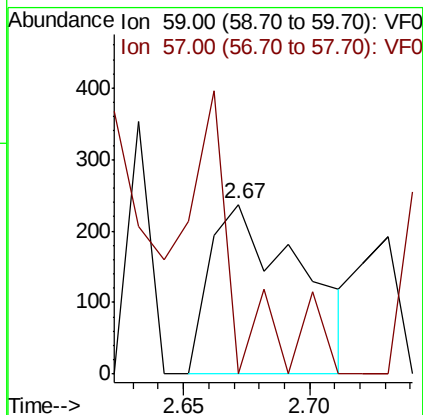
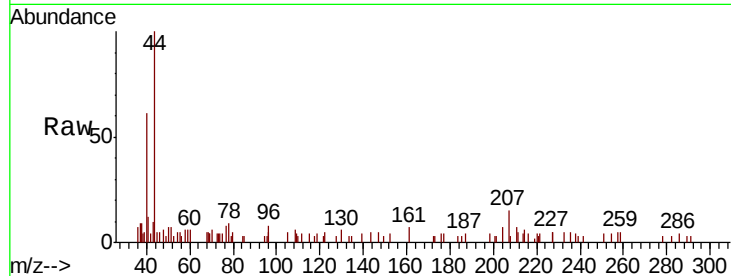


#11

Tert butyl alcohol
 Concen: 13.794 ug/l
 RT: 2.67 min Scan# 217
 Delta R.T. -0.03 min
 Lab File: VF062733.D
 Acq: 23 May 2019 18:10

Instrument :
 MSVOA_F
 ClientSampled :

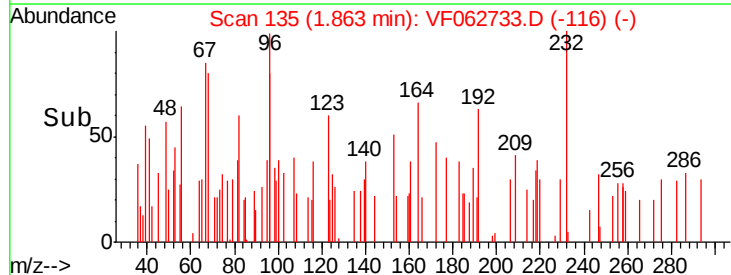
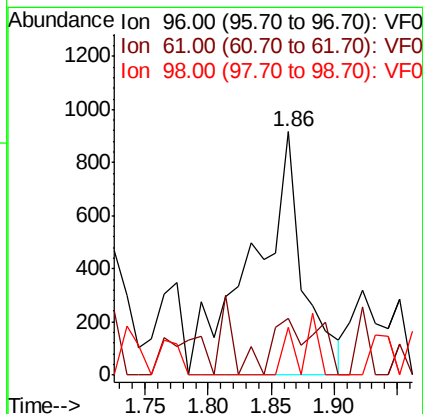
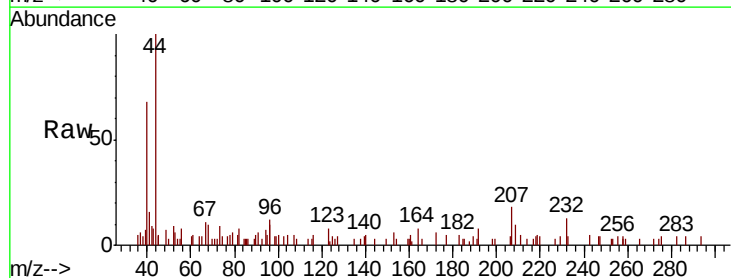
Tot Ion: 59 Resp: 594
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#

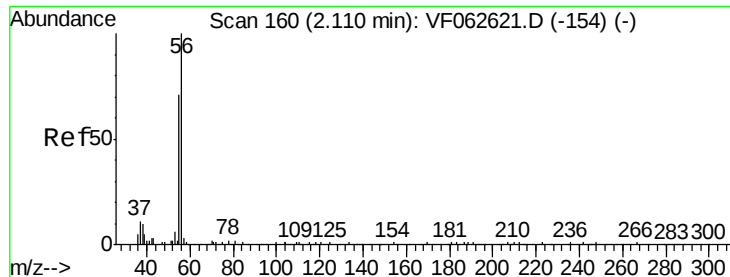


#12

1,1-Dichloroethene
 Concen: 3.025 ug/l
 RT: 1.86 min Scan# 135
 Delta R.T. -0.01 min
 Lab File: VF062733.D
 Acq: 23 May 2019 18:10

Tgt Ion: 96 Resp: 2508
 Ion Ratio Lower Upper
 96 100
 61 23.3 134.3 201.5#
 98 19.7 55.0 82.6#

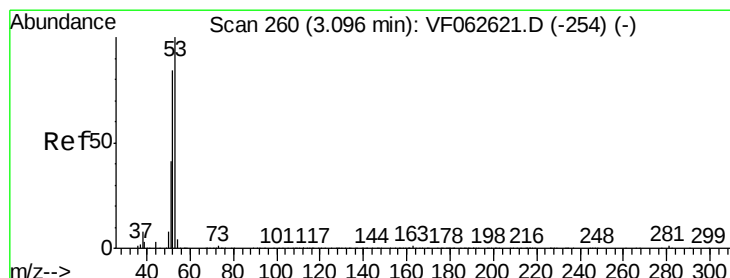
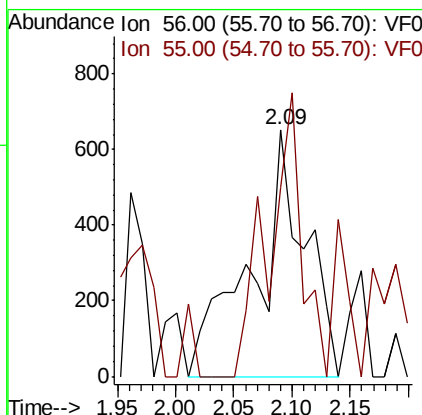
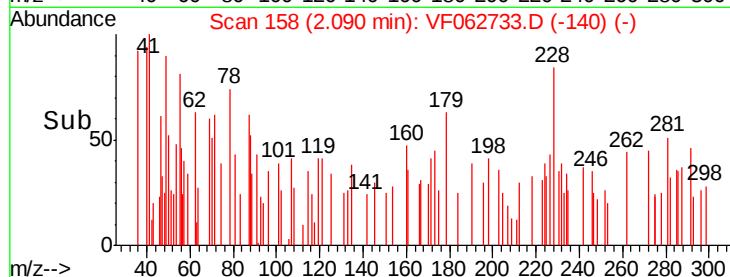
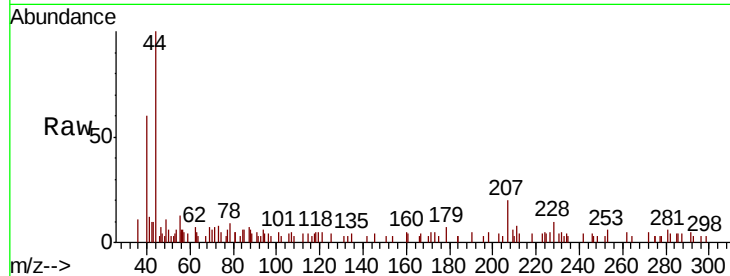




#13
Acrolein
Concen: 44.872 ug/l
RT: 2.09 min Scan# 158
Delta R.T. -0.02 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

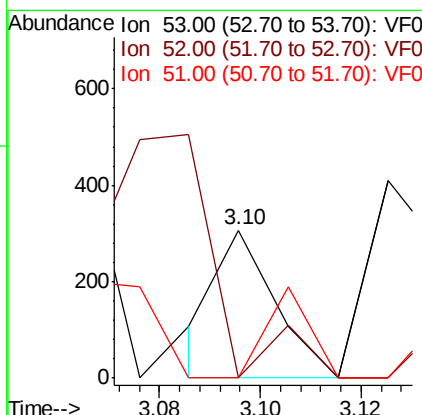
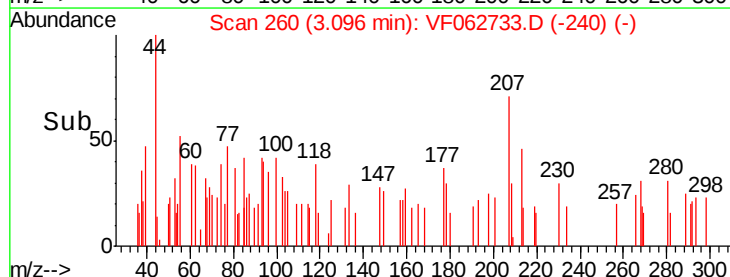
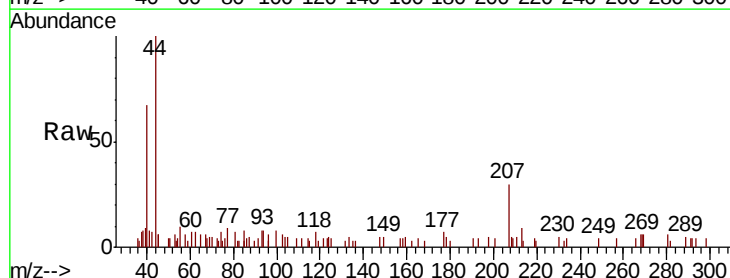
Instrument :
MSVOA_F
ClientSampleId :

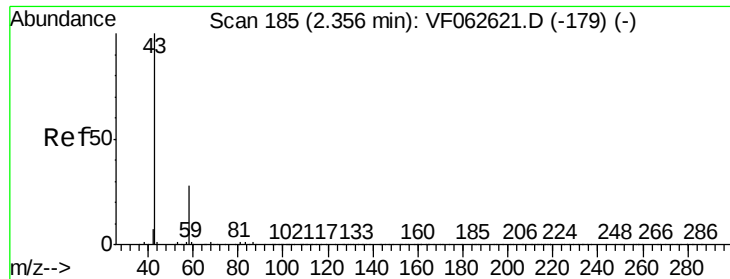
Tot Ion: 56 Resp: 2017
Ion Ratio Lower Upper
56 100
55 76.3 59.4 89.0



#15
Acrylonitrile
Concen: 2.009 ug/l
RT: 3.10 min Scan# 260
Delta R.T. -0.00 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

Tgt Ion: 53 Resp: 244
Ion Ratio Lower Upper
53 100
52 0.0 67.3 100.9#
51 0.0 33.0 49.6#





#16

Acetone

Concen: 5.880 ug/l

RT: 2.45 min Scan# 194

Delta R.T. 0.09 min

Lab File: VF062733.D

Acq: 23 May 2019 18:10

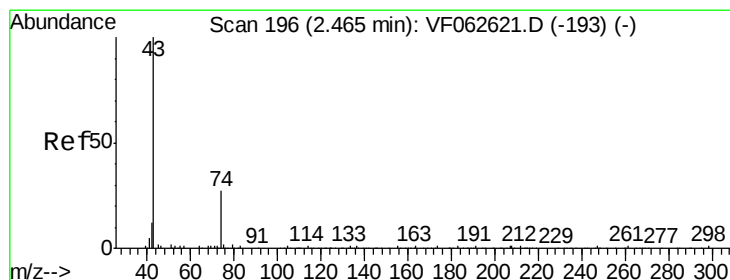
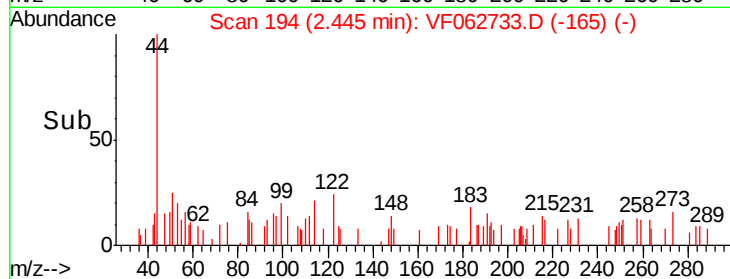
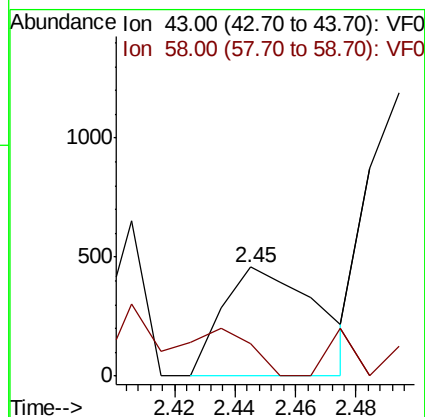
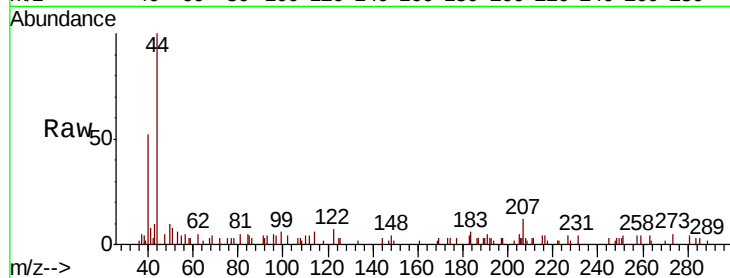
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 995

Ion Ratio Lower Upper

43 100

58 29.5 22.6 33.8



#18

Methyl Acetate

Concen: 3.742 ug/l

RT: 2.45 min Scan# 194

Delta R.T. -0.02 min

Lab File: VF062733.D

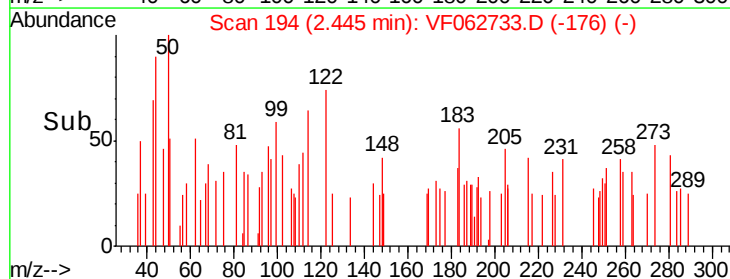
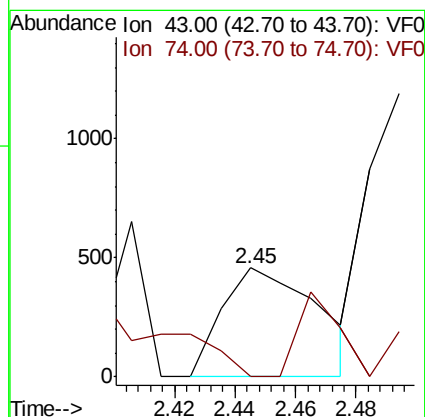
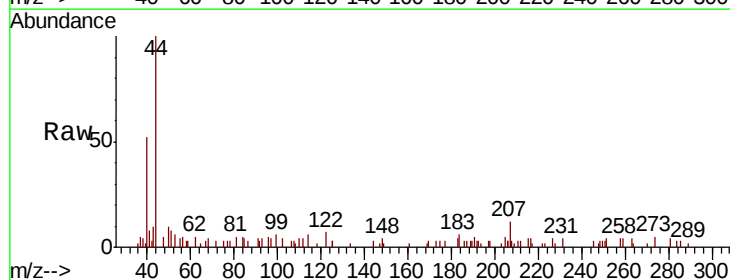
Acq: 23 May 2019 18:10

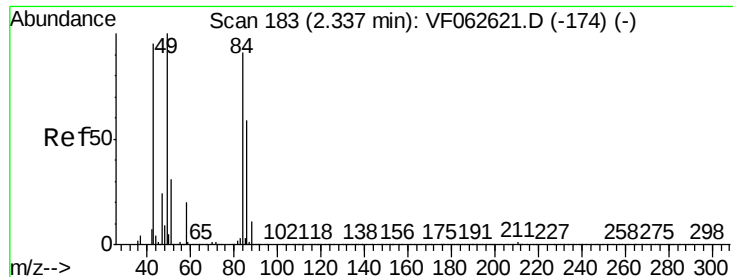
Tgt Ion: 43 Resp: 995

Ion Ratio Lower Upper

43 100

74 0.0 18.9 28.3#

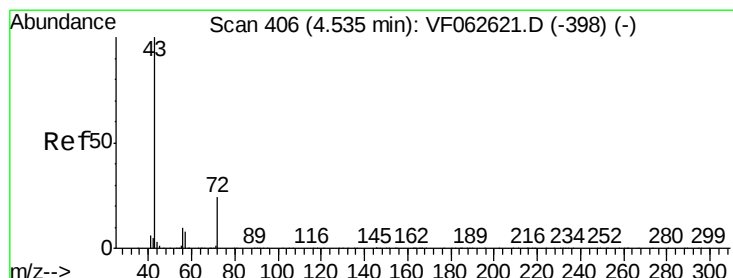
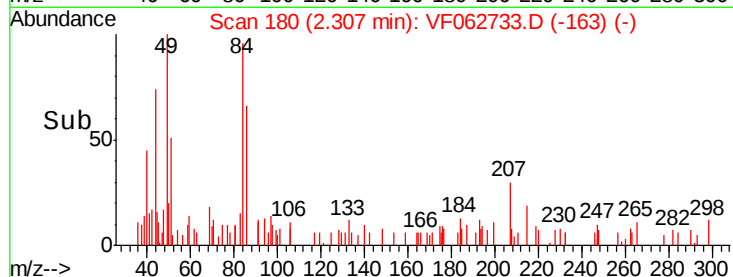
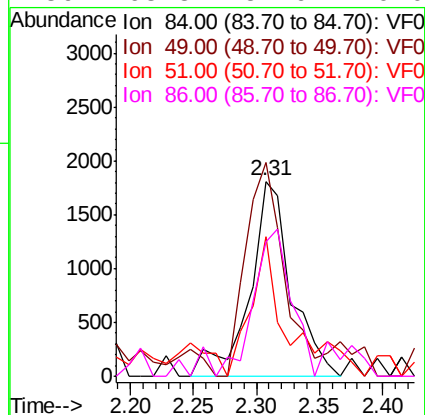
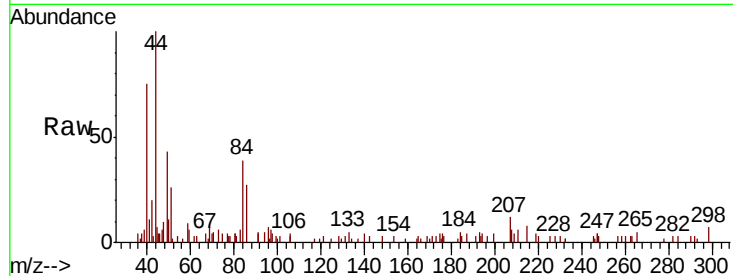




#20
Methvlene Chloride
Concen: 4.914 ug/l
RT: 2.31 min Scan# 180
Delta R.T. -0.03 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

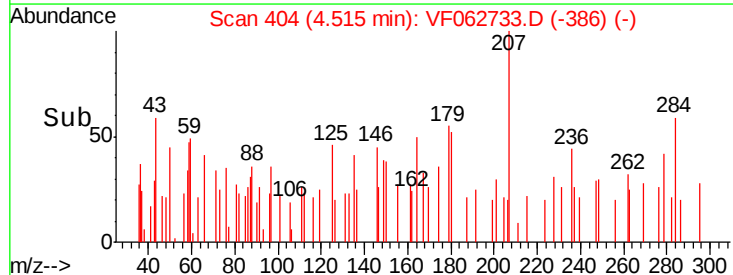
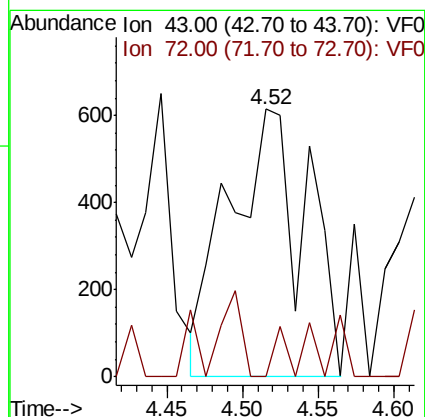
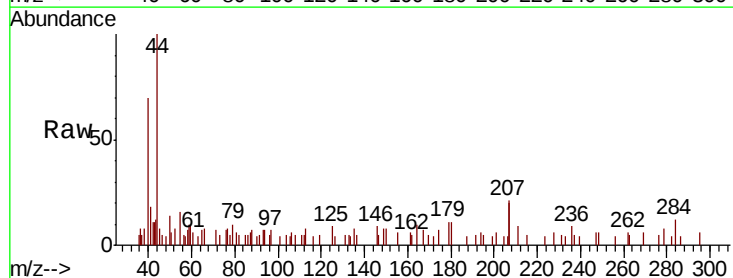
Instrument :
MSVOA_F
ClientSampleId :

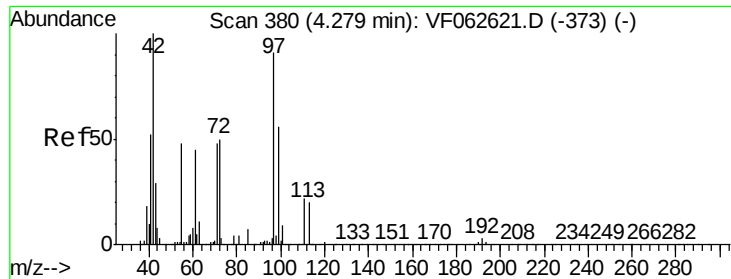
Tot Ion:	84	Resp:	4168
Ion	Ratio	Lower	Upper
84	100		
49	109.6	89.8	134.8
51	71.6	28.4	42.6#
86	68.8	52.6	79.0



#25
2-Butanone
Concen: 6.016 ug/l
RT: 4.52 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

Tgt Ion:	43	Resp:	2175
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.1	30.1#

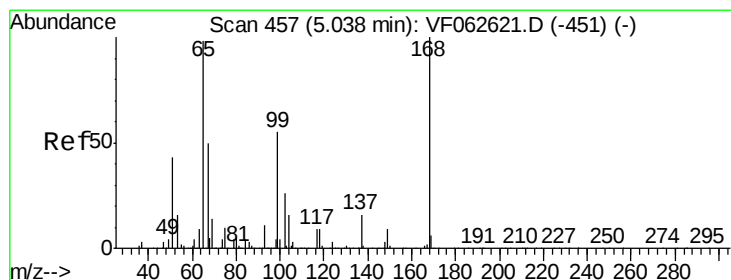
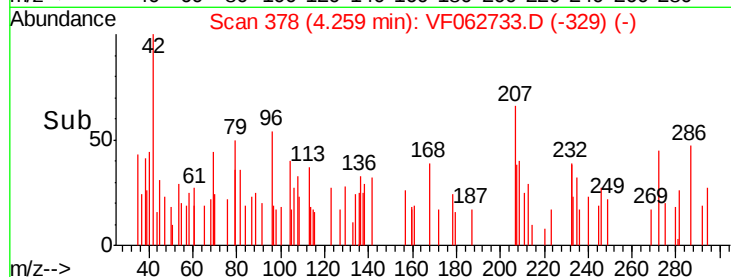
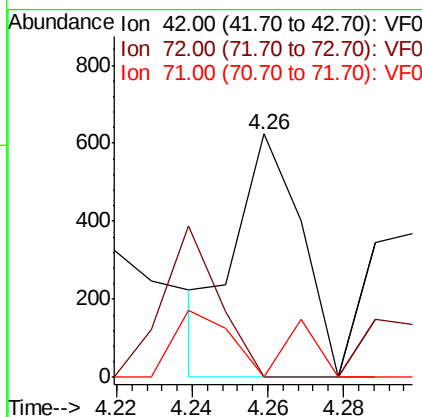
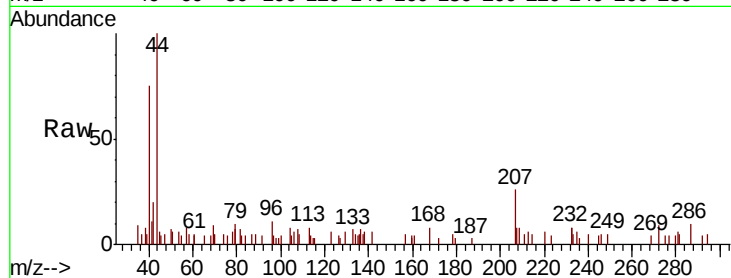




#29
Tetrahydrofuran
Concen: 5.099 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.02 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

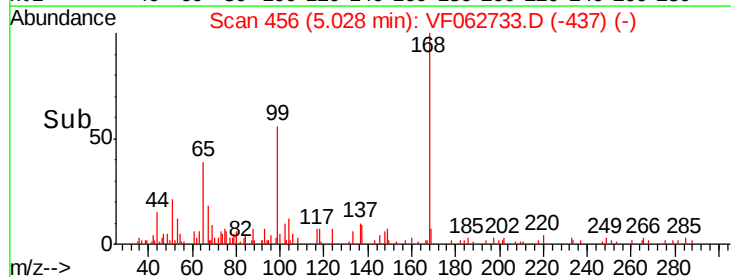
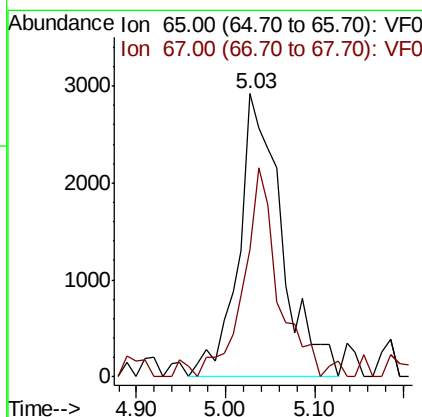
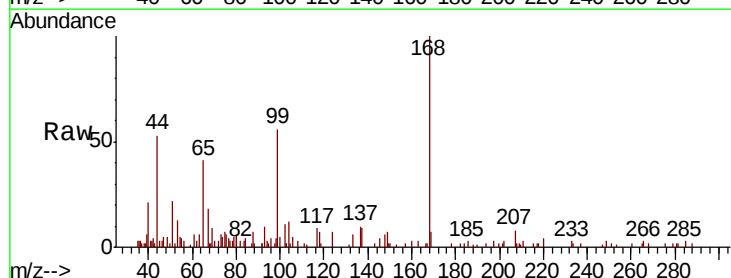
Instrument :
MSVOA_F
ClientSampled :

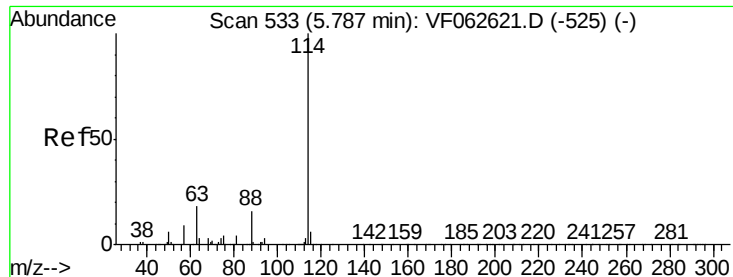
Tot Ion: 42 Resp: 746
Ion Ratio Lower Upper
42 100
72 53.9 38.2 57.2
71 23.7 35.8 53.6#



#33
1,2-Dichloroethane-d4
Concen: 15.024 ug/l
RT: 5.03 min Scan# 456
Delta R.T. -0.01 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

Tgt Ion: 65 Resp: 9799
Ion Ratio Lower Upper
65 100
67 44.7 0.0 117.6

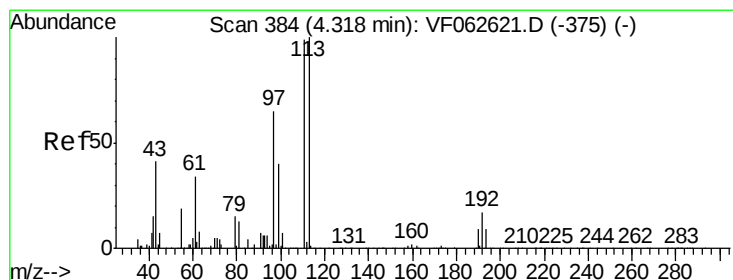
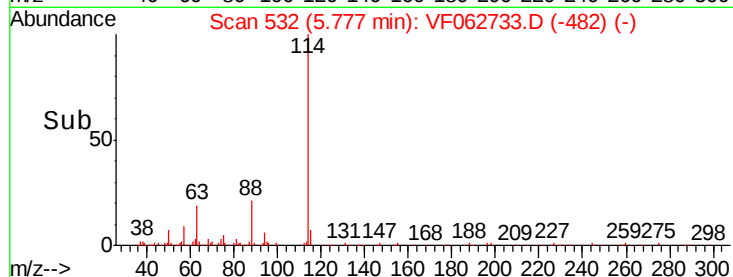
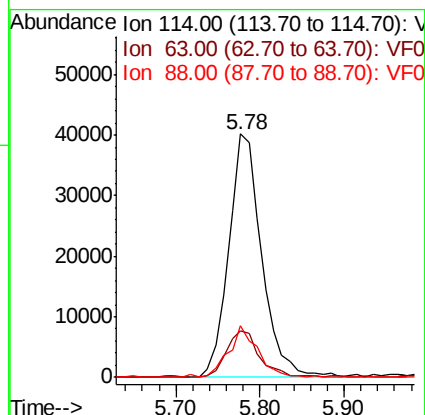
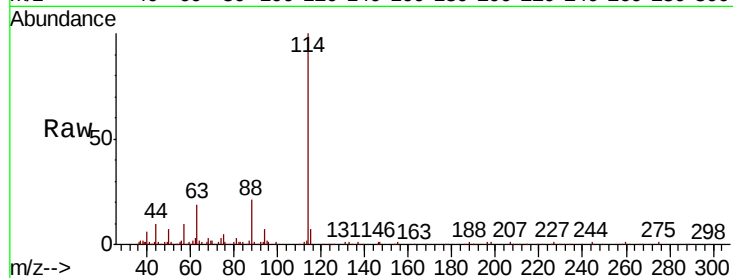




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.78 min Scan# 532
Delta R.T. -0.01 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

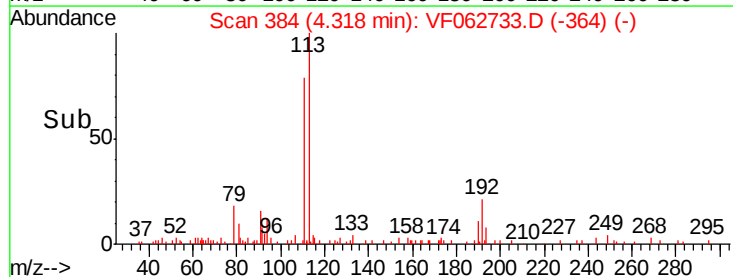
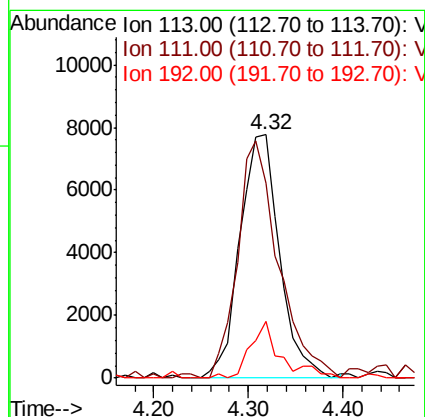
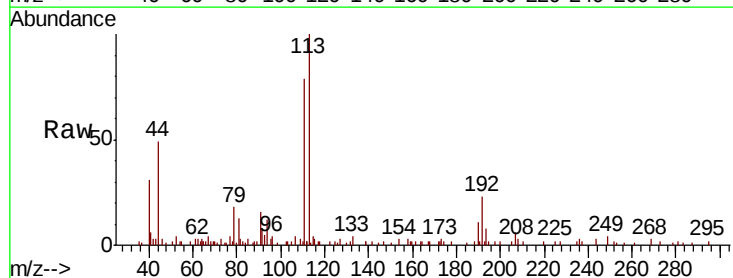
Instrument :
MSVOA_F
ClientSampleId :

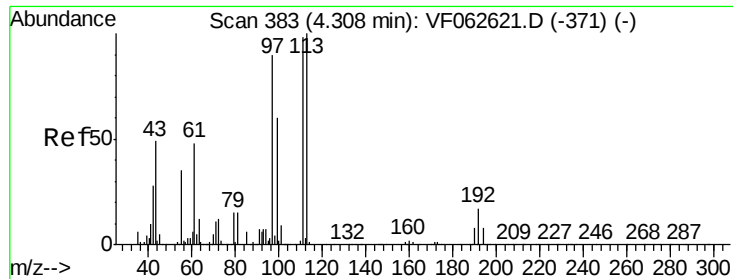
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	35.4
88	21.0	0.0	32.4



#35
Dibromofluoromethane
Concen: 27.145 ug/l
RT: 4.32 min Scan# 384
Delta R.T. -0.00 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

Tgt Ion	Ratio	Lower	Upper
113	100		
111	80.1	79.4	119.2
192	23.2	13.4	20.2#

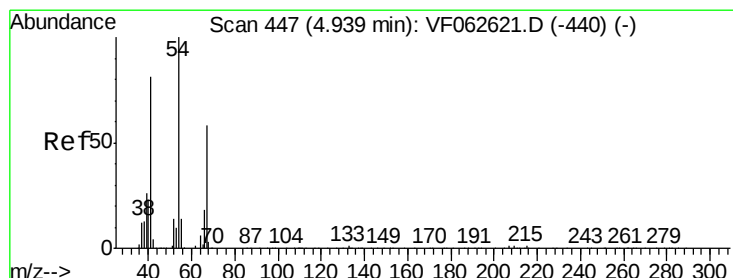
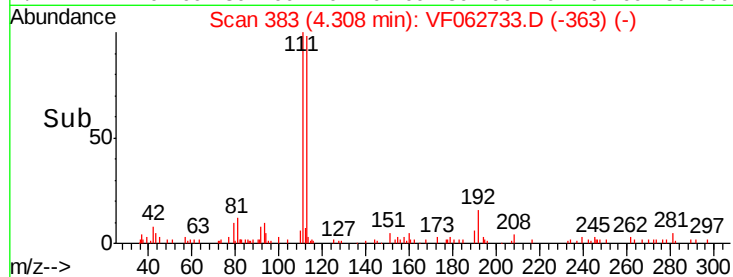
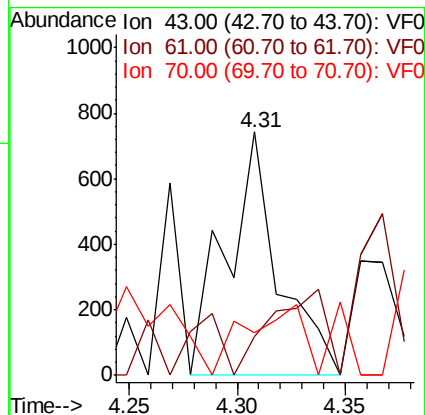
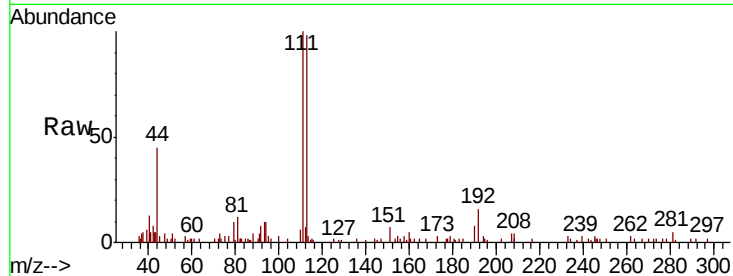




#37
Ethyl Acetate
Concen: 2.721 ug/l
RT: 4.31 min Scan# 383
Delta R.T. -0.00 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

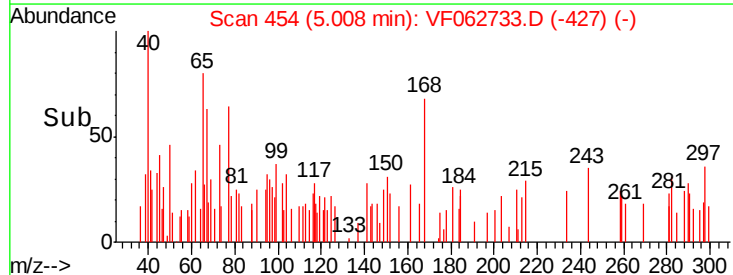
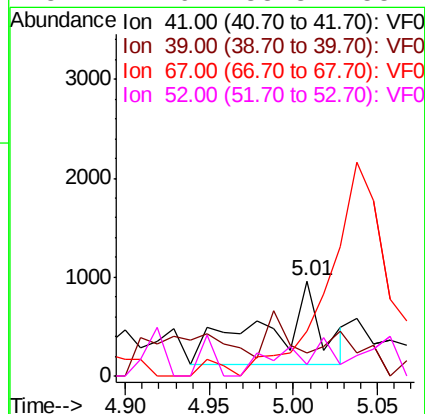
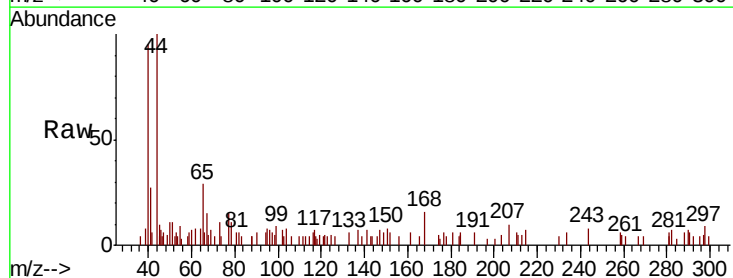
Instrument :
MSVOA_F
ClientSampled :

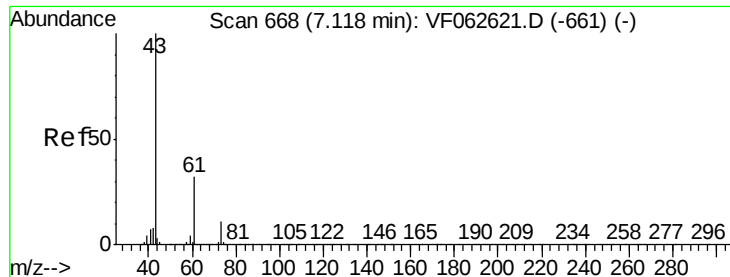
Tot Ion: 43 Resp: 1247
Ion Ratio Lower Upper
43 100
61 15.9 76.9 115.3#
70 17.5 8.8 13.2#



#41
Methacrylonitrile
Concen: 8.120 ug/l
RT: 5.01 min Scan# 454
Delta R.T. 0.07 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

Tgt Ion: 41 Resp: 1951
Ion Ratio Lower Upper
41 100
39 23.9 42.2 63.2#
67 46.4 56.4 84.6#
52 11.6 38.8 58.2#





#43

Isopropyl Acetate

Concen: 2.050 ug/l

RT: 7.07 min Scan# 663

Delta R.T. -0.05 min

Lab File: VF062733.D

Acq: 23 May 2019 18:10

Instrument :

MSVOA_F

ClientSampled :

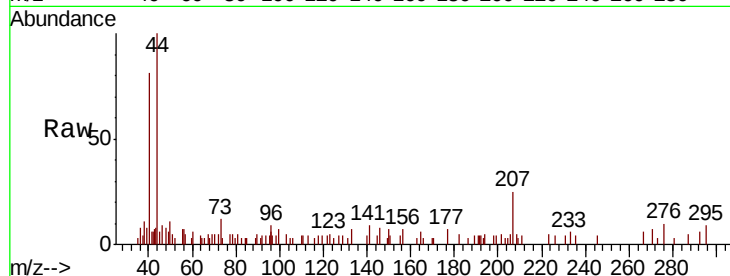
Tot Ion: 43 Resp: 1217

Ion Ratio Lower Upper

43 100

61 0.0 25.8 38.8#

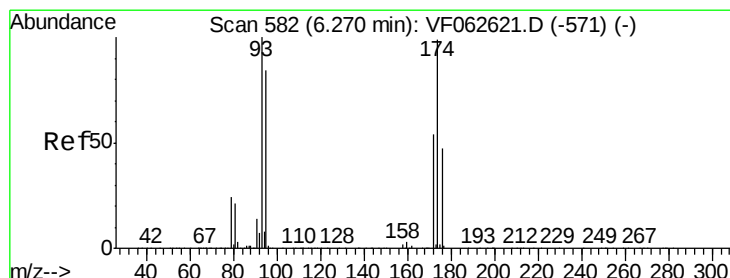
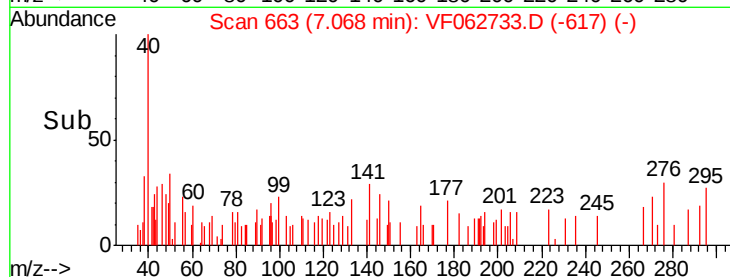
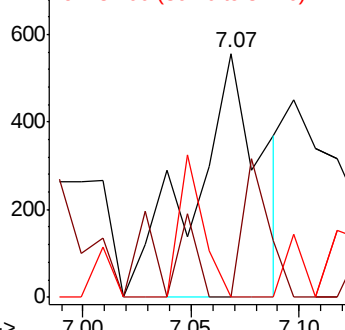
87 0.0 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#46

Dibromomethane

Concen: 1.179 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.02 min

Lab File: VF062733.D

Acq: 23 May 2019 18:10

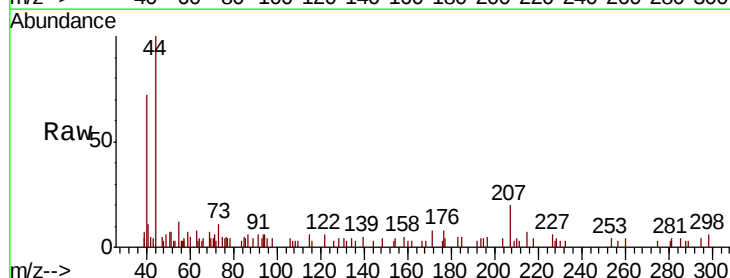
Tgt Ion: 93 Resp: 526

Ion Ratio Lower Upper

93 100

95 43.0 67.4 101.2#

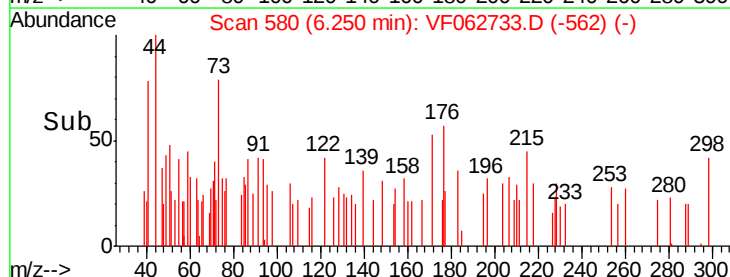
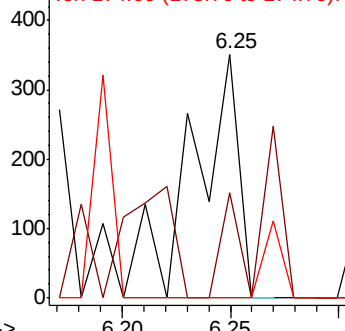
174 0.0 79.4 119.2#

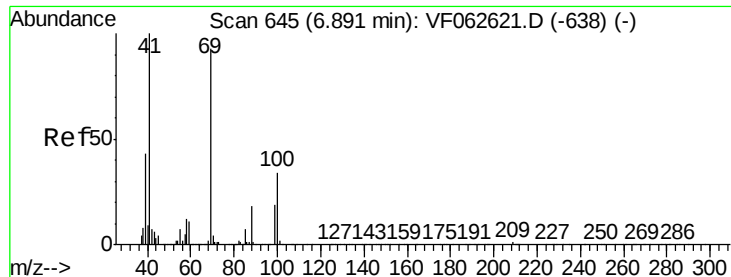


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

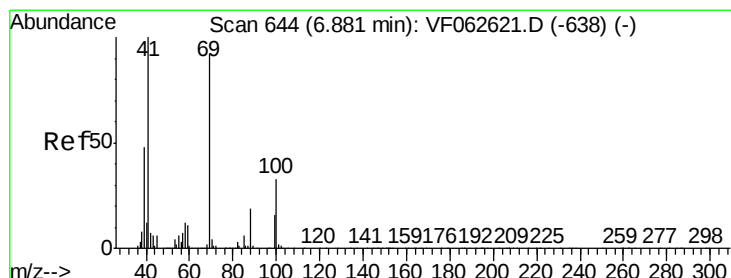
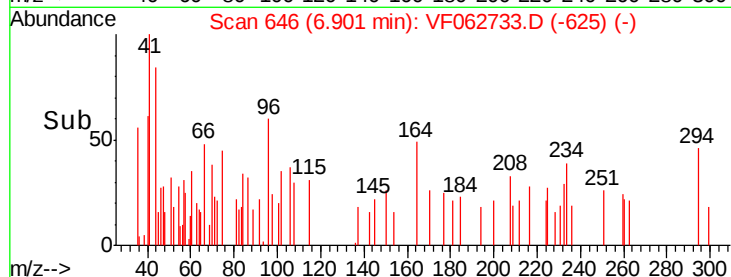
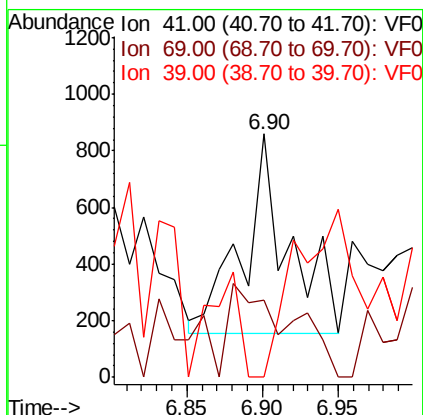
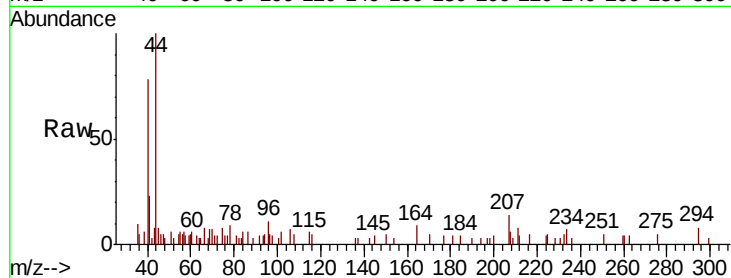




#48
Methvl methacrilate
Concen: 4.795 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.01 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

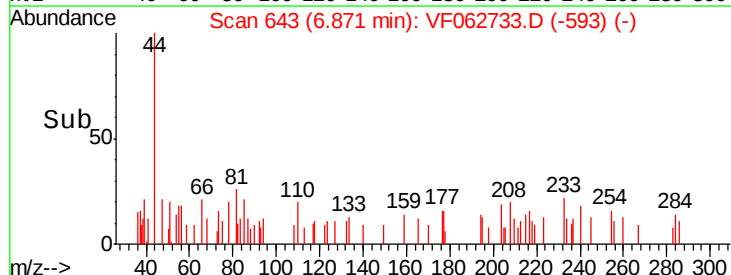
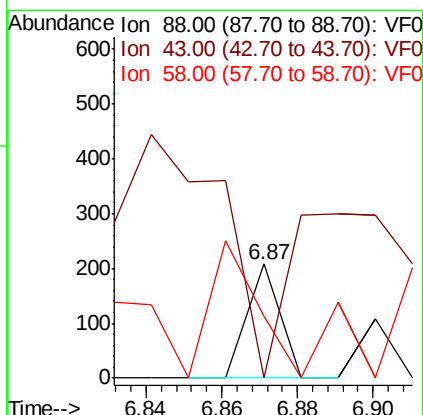
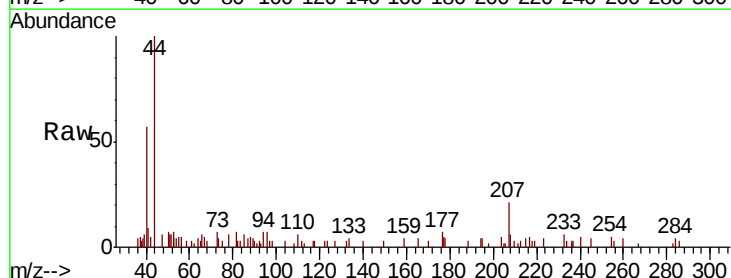
Instrument :
MSVOA_F
ClientSampled :

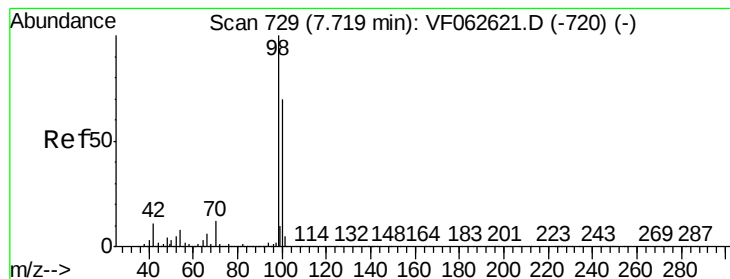
Tot Ion: 41 Resp: 1488
Ion Ratio Lower Upper
41 100
69 31.7 74.2 111.2#
39 0.0 34.2 51.4#



#49
1,4-Dioxane
Concen: 30.946 ug/l
RT: 6.87 min Scan# 643
Delta R.T. -0.01 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

Tgt Ion: 88 Resp: 123
Ion Ratio Lower Upper
88 100
43 0.0 30.0 45.0#
58 54.3 51.1 76.7





#50

Toluene-d8

Concen: 41.248 ug/l

RT: 7.72 min Scan# 729

Delta R.T. -0.00 min

Lab File: VF062733.D

Acq: 23 May 2019 18:10

Instrument :

MSVOA_F

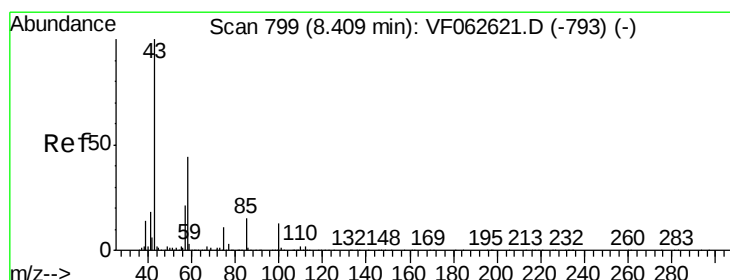
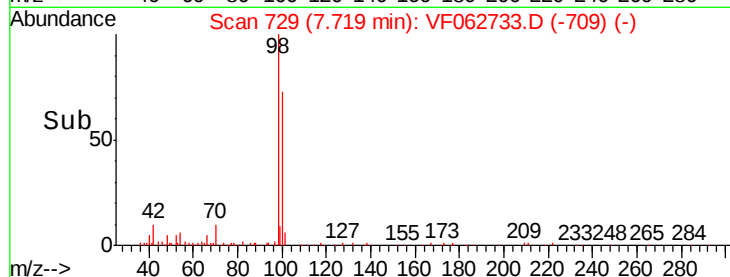
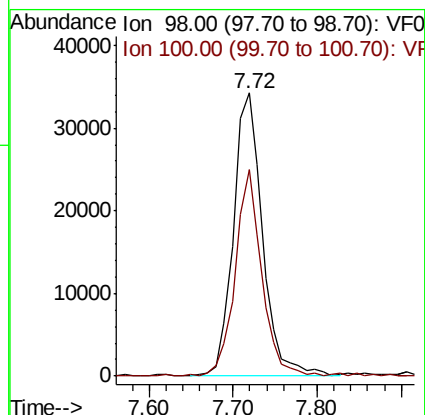
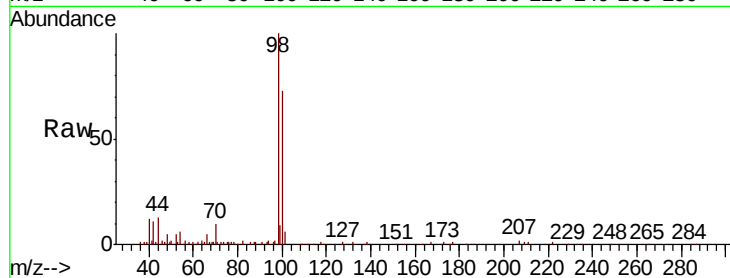
ClientSampleId :

Tot Ion: 98 Resp: 82546

Ion Ratio Lower Upper

98 100

100 72.9 56.2 84.2



#51

4-Methyl-2-Pentanone

Concen: 1.052 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.02 min

Lab File: VF062733.D

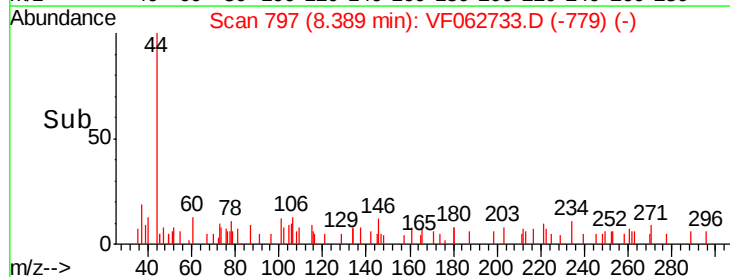
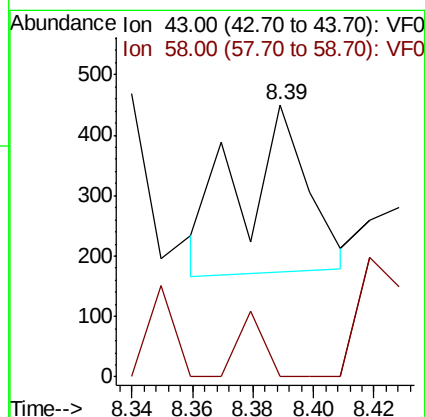
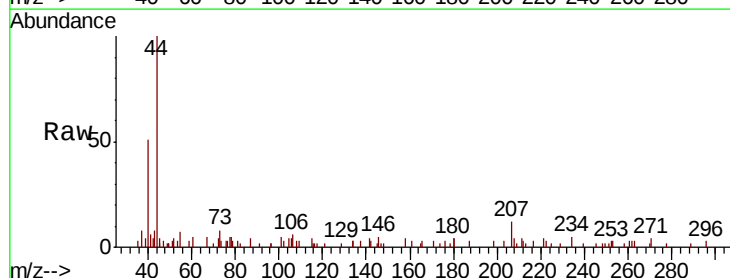
Acq: 23 May 2019 18:10

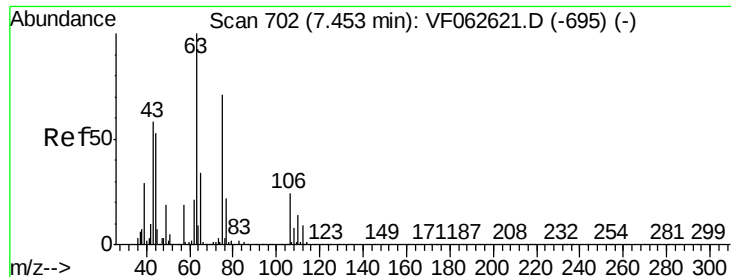
Tgt Ion: 43 Resp: 427

Ion Ratio Lower Upper

43 100

58 0.0 34.9 52.3#

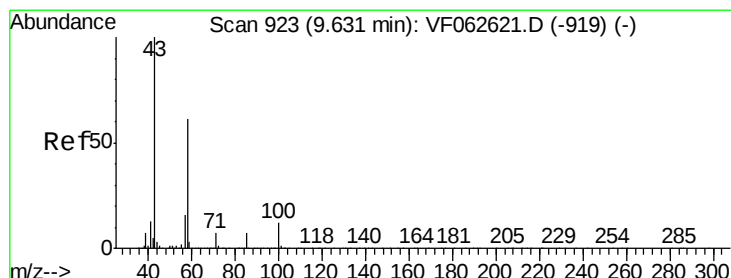
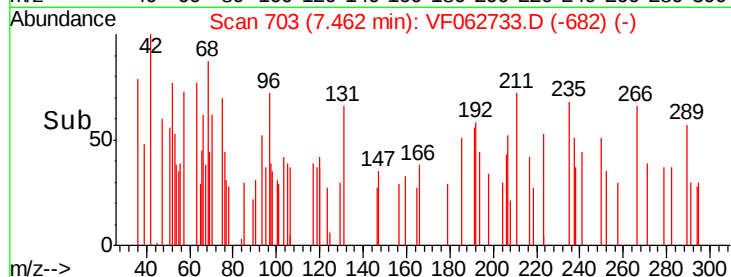
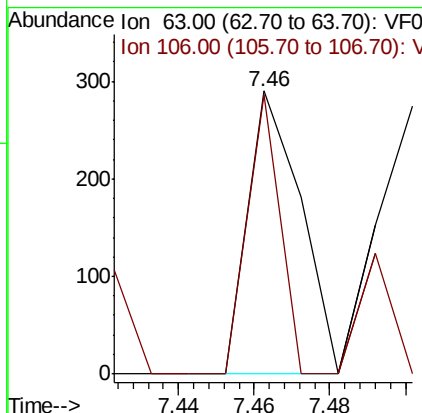
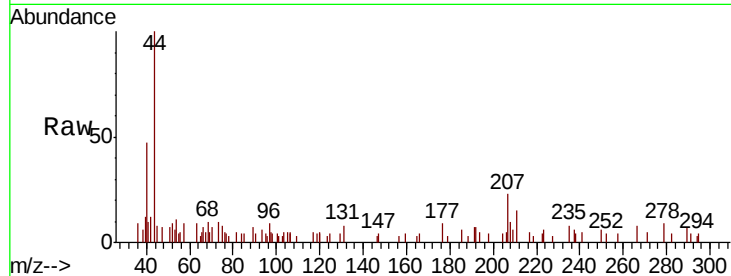




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.515 ug/l
 RT: 7.46 min Scan# 703
 Delta R.T. 0.01 min
 Lab File: VF062733.D
 Acq: 23 May 2019 18:10

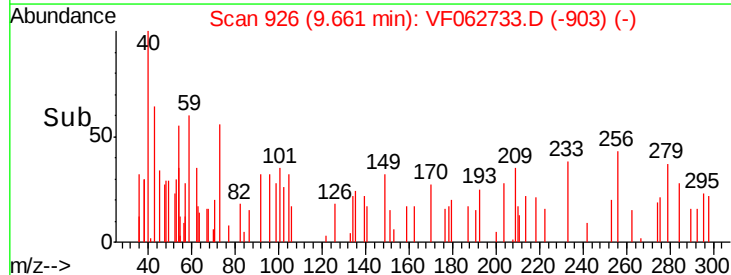
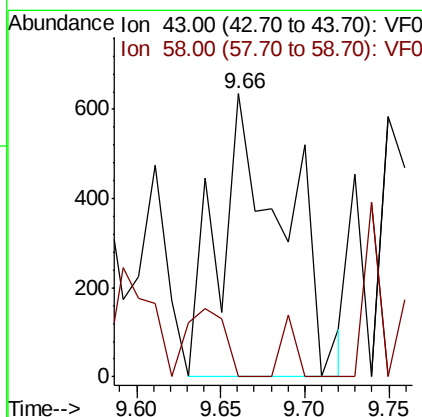
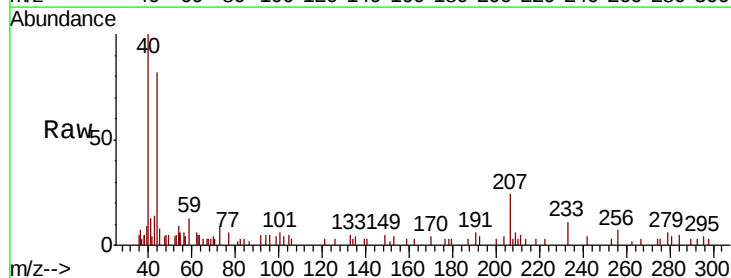
Instrument :
 MSVOA_F
 ClientSampled :

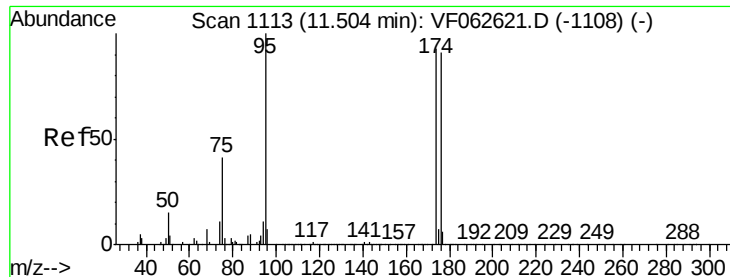
Tot Ion: 63 Resp: 279
 Ion Ratio Lower Upper
 63 100
 106 98.6 19.1 28.7#



#59
 2-Hexanone
 Concen: Below Cal
 RT: 9.66 min Scan# 926
 Delta R.T. 0.03 min
 Lab File: VF062733.D
 Acq: 23 May 2019 18:10

Tgt Ion: 43 Resp: 1719
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.1 84.4#





#62

4-Bromofluorobenzene

Concen: 18.869 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062733.D

Acq: 23 May 2019 18:10

Instrument :

MSVOA_F

ClientSampled :

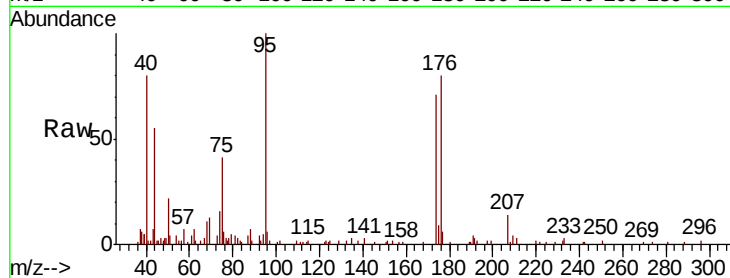
Tot Ion: 95 Resp: 14322

Ion Ratio Lower Upper

95 100

174 71.2 0.0 185.6

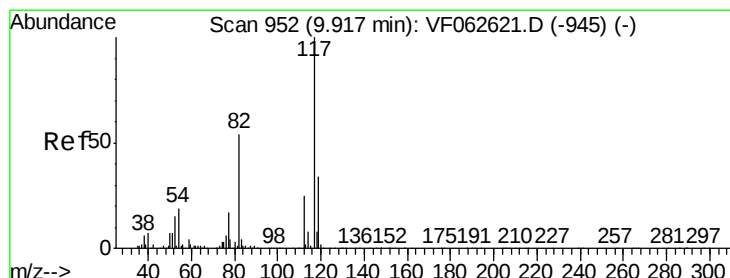
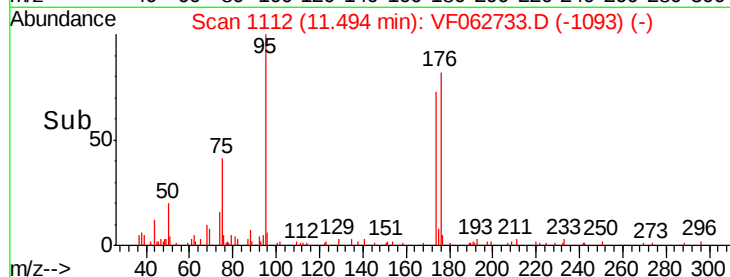
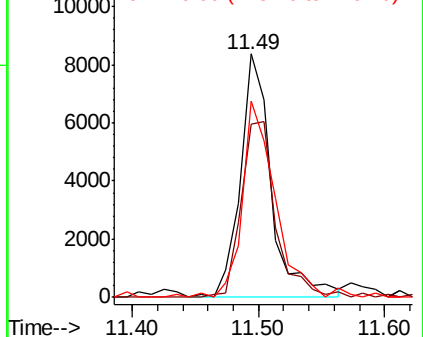
176 80.5 0.0 182.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. -0.00 min

Lab File: VF062733.D

Acq: 23 May 2019 18:10

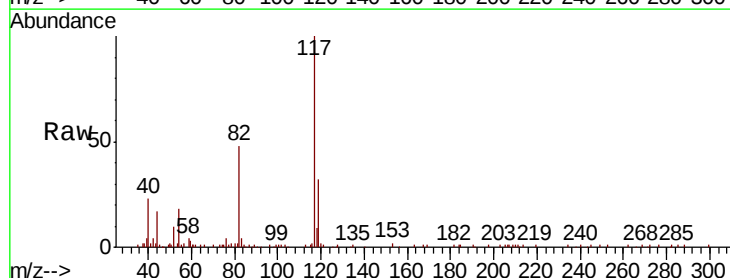
Tgt Ion: 117 Resp: 53060

Ion Ratio Lower Upper

117 100

82 48.3 43.3 64.9

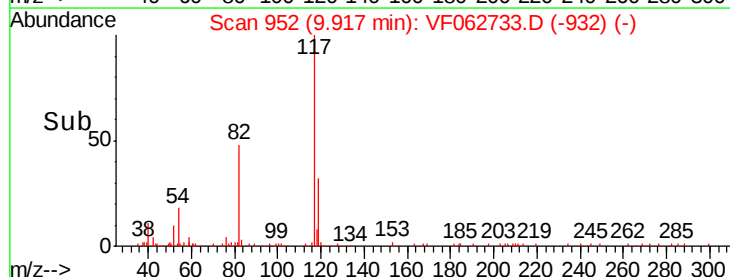
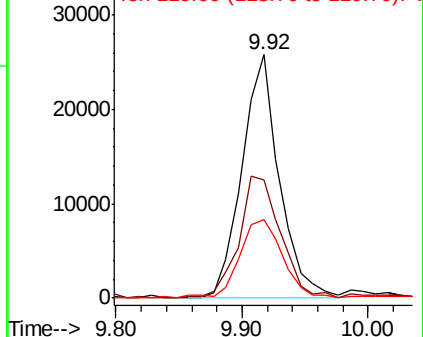
119 32.3 27.4 41.0

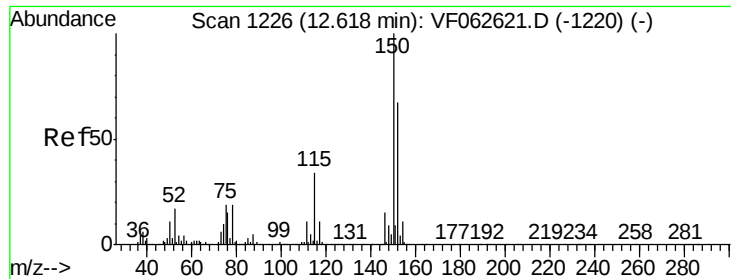


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



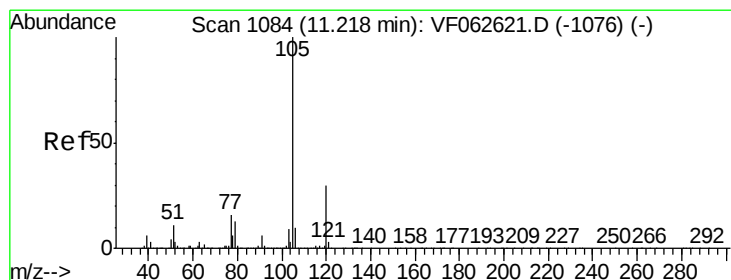
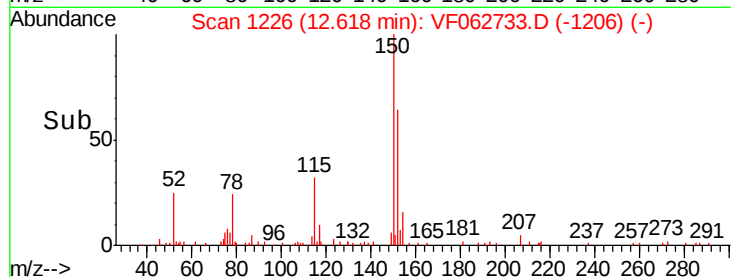
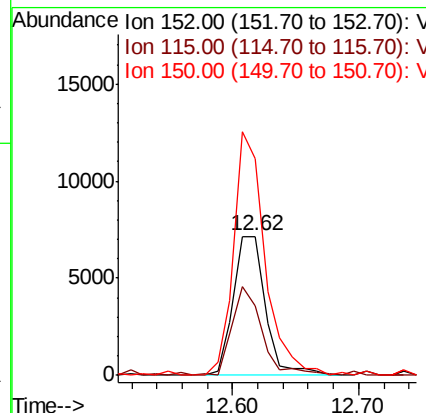
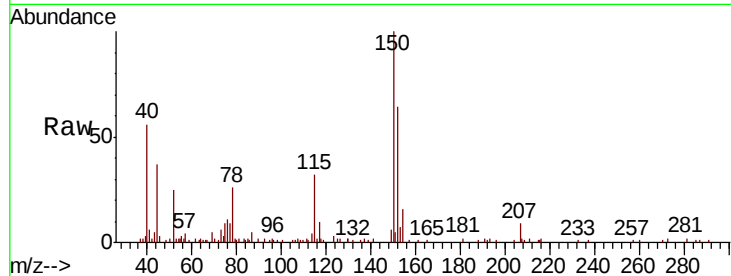


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.00 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

Instrument :
MSVOA_F
ClientSampleId :

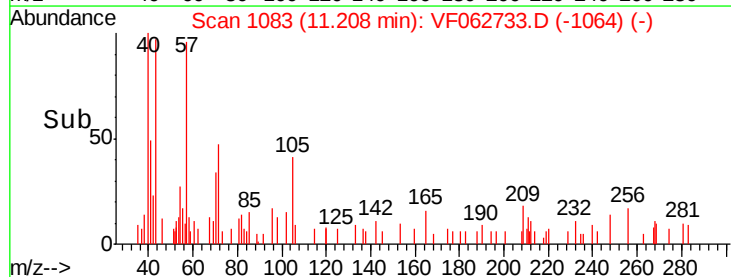
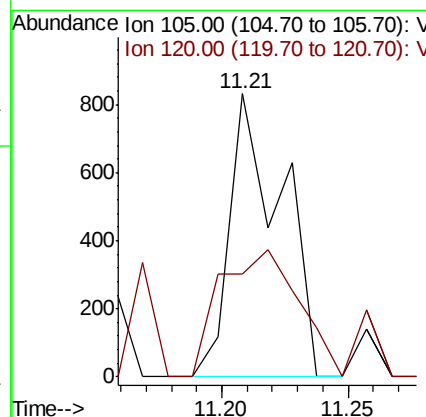
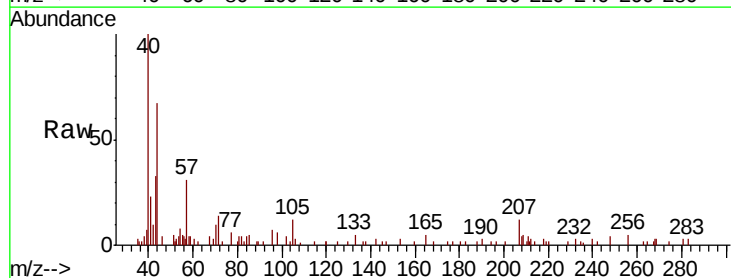
Tot Ion	Ratio	Lower	Upper
152	100		
115	50.5	25.2	75.6
150	155.7	0.0	306.2

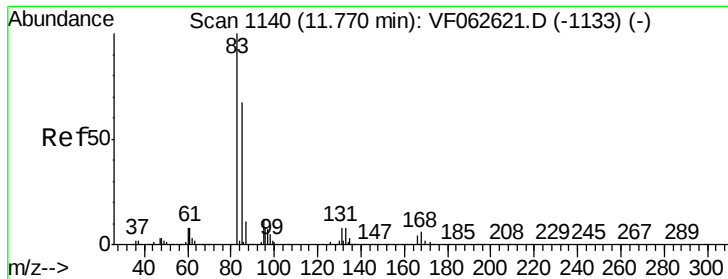


#73

Isopropylbenzene
Concen: 1.320 ug/l
RT: 11.21 min Scan# 1083
Delta R.T. -0.01 min
Lab File: VF062733.D
Acq: 23 May 2019 18:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	36.3	14.8	44.4





#75

1,1,2,2-Tetrachloroethane

Concen: 8.198 ug/l

RT: 11.75 min Scan# 1138

Delta R.T. -0.02 min

Lab File: VF062733.D

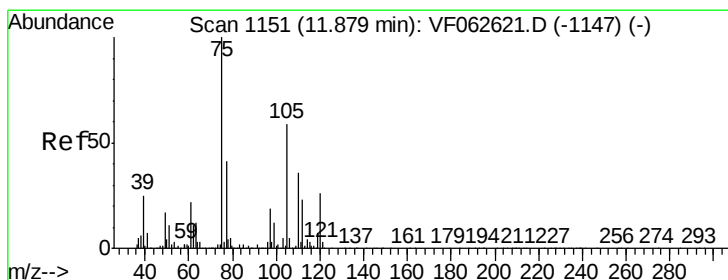
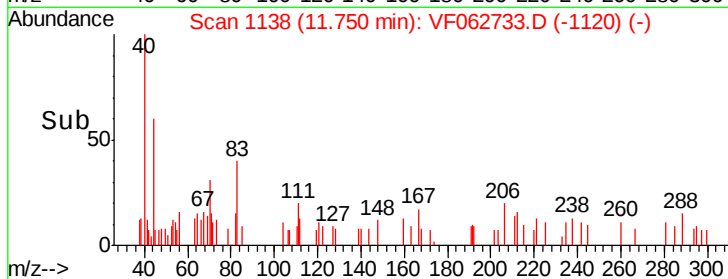
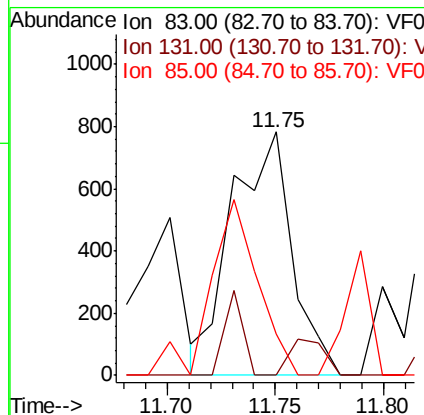
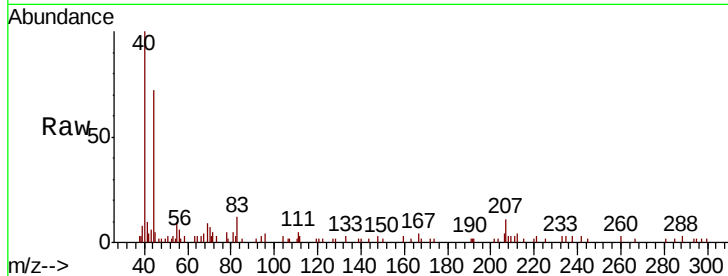
Acq: 23 May 2019 18:10

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion	83	Resp	1515
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.0	12.0#
85	17.1	33.5	100.5#



#76

1,2,3-Trichloropropane

Concen: 5.460 ug/l

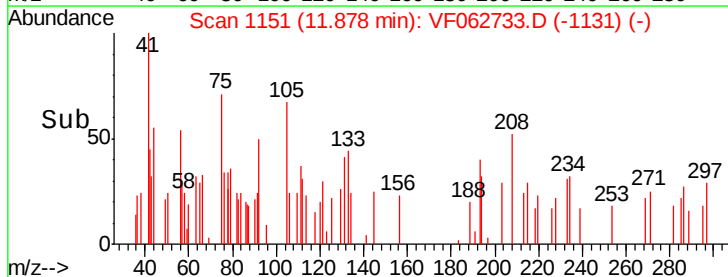
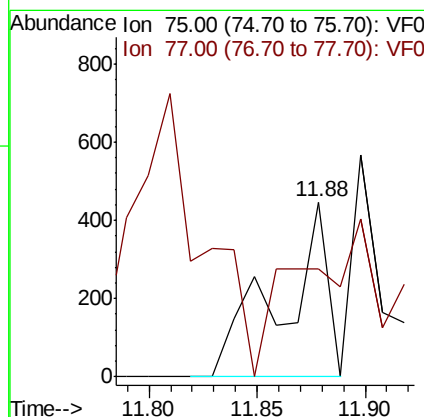
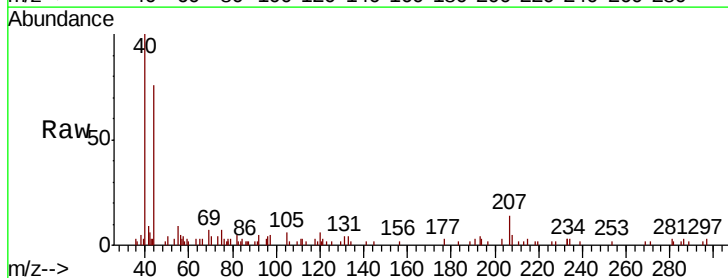
RT: 11.88 min Scan# 1151

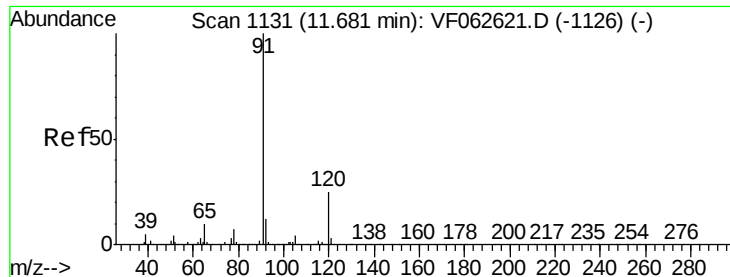
Delta R.T. -0.00 min

Lab File: VF062733.D

Acq: 23 May 2019 18:10

Tgt Ion	75	Resp	663
Ion	Ratio	Lower	Upper
75	100		
77	61.9	20.6	61.8#





#78

n-propylbenzene

Concen: 2.121 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF062733.D

Acq: 23 May 2019 18:10

Instrument :

MSVOA_F

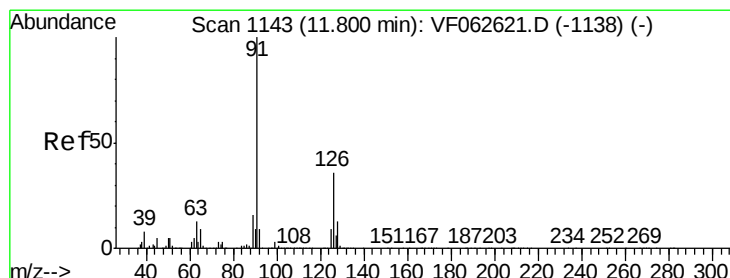
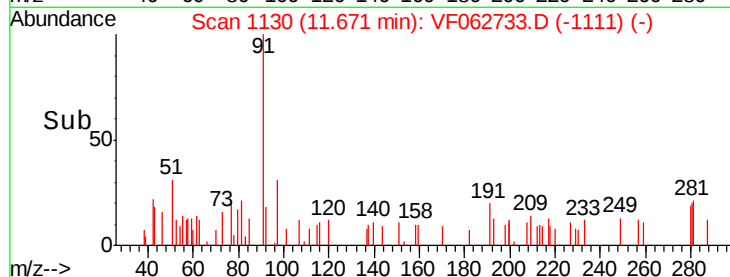
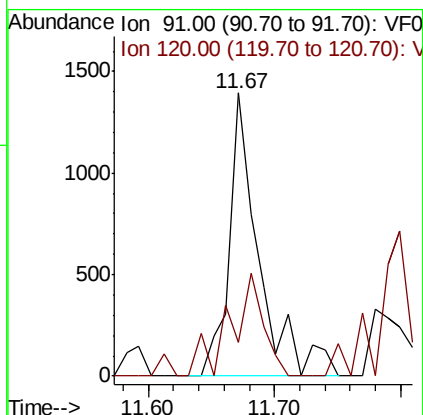
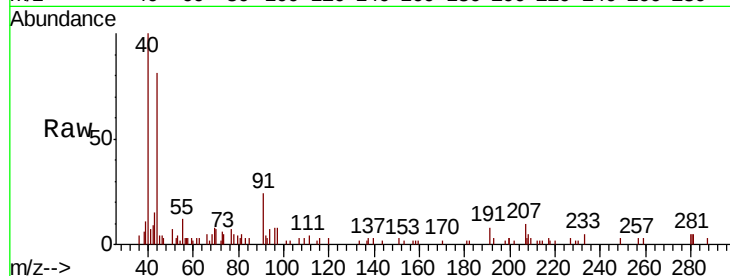
ClientSampleId :

Tot Ion: 91 Resp: 2270

Ion Ratio Lower Upper

91 100

120 11.8 12.7 38.1#



#79

2-Chlorotoluene

Concen: 1.106 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.02 min

Lab File: VF062733.D

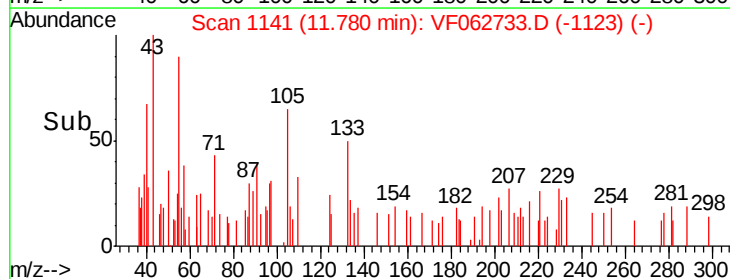
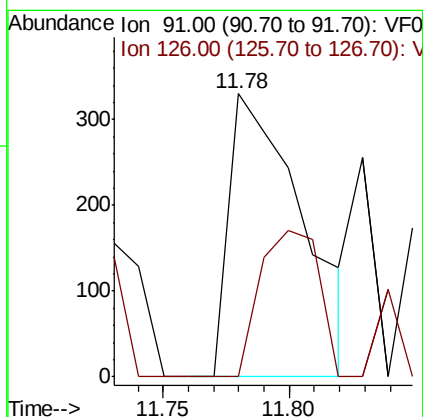
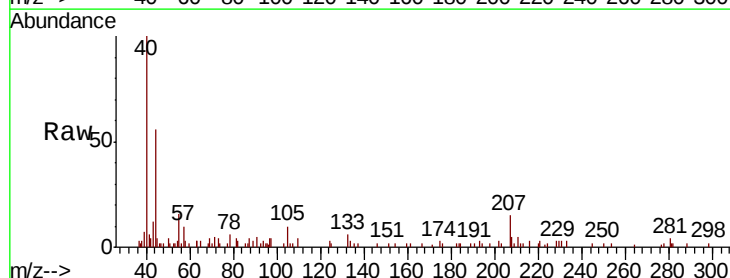
Acq: 23 May 2019 18:10

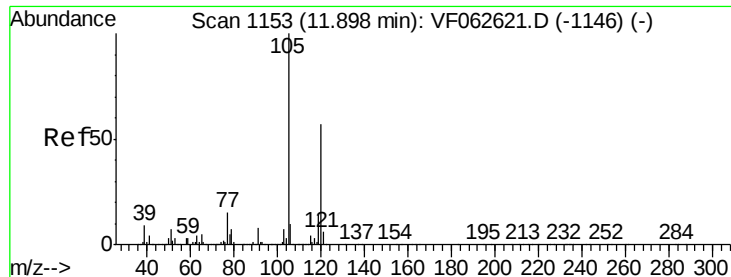
Tgt Ion: 91 Resp: 667

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#

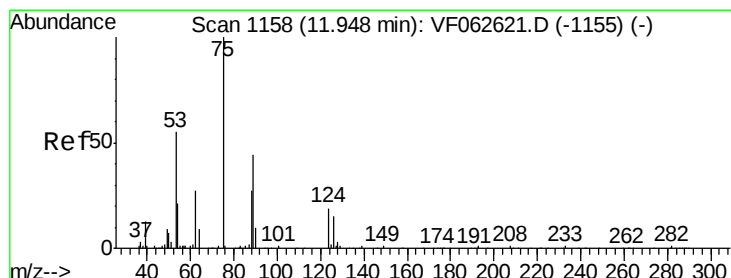
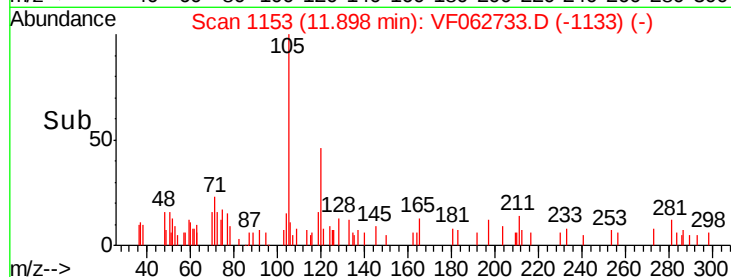
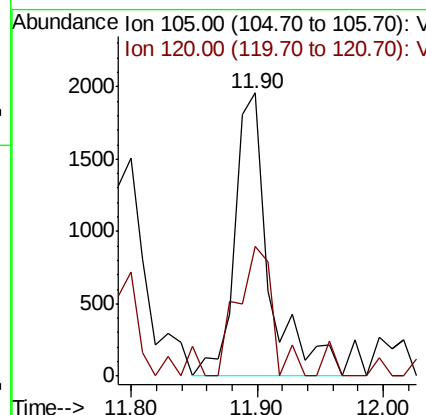
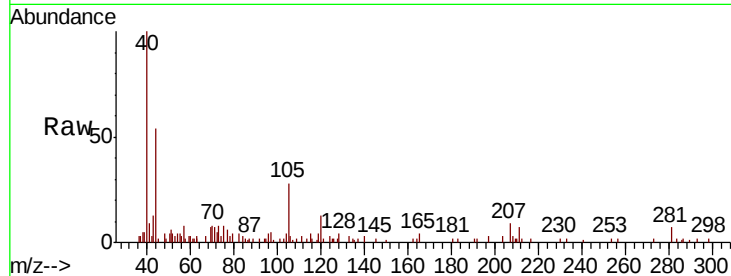




#80
 1,3,5-Trimethylbenzene
 Concen: 5.083 ug/l
 RT: 11.90 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VF062733.D
 Acq: 23 May 2019 18:10

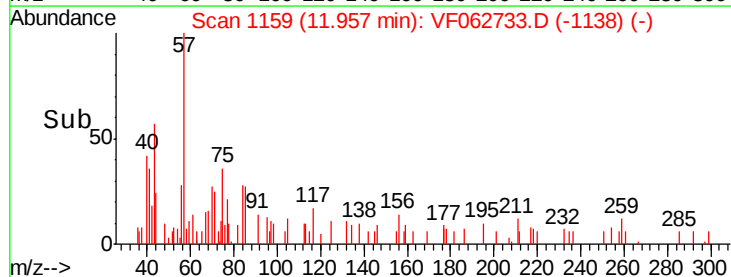
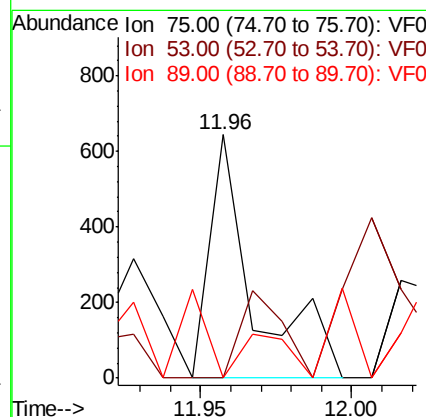
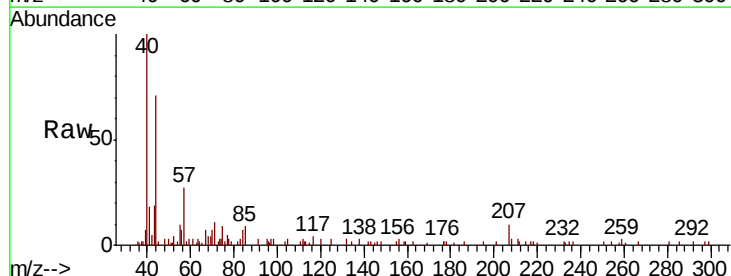
Instrument :
 MSVOA_F
 ClientSampled :

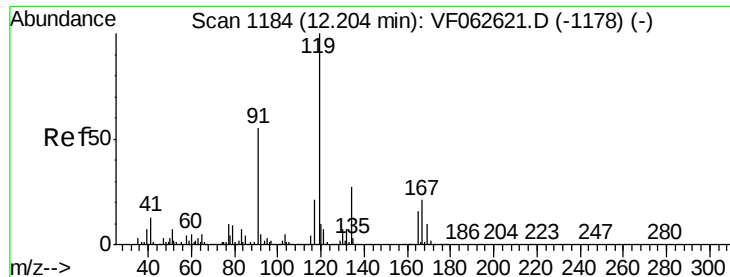
Tot Ion:105 Resp: 3686
 Ion Ratio Lower Upper
 105 100
 120 45.9 28.7 86.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 12.006 ug/l
 RT: 11.96 min Scan# 1159
 Delta R.T. 0.01 min
 Lab File: VF062733.D
 Acq: 23 May 2019 18:10

Tgt Ion: 75 Resp: 648
 Ion Ratio Lower Upper
 75 100
 53 18.8 46.9 70.3#
 89 0.0 36.4 54.6#





#83

tert-Butylbenzene

Concen: 1.229 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VF062733.D

Acq: 23 May 2019 18:10

Instrument :

MSVOA_F

ClientSampleId :

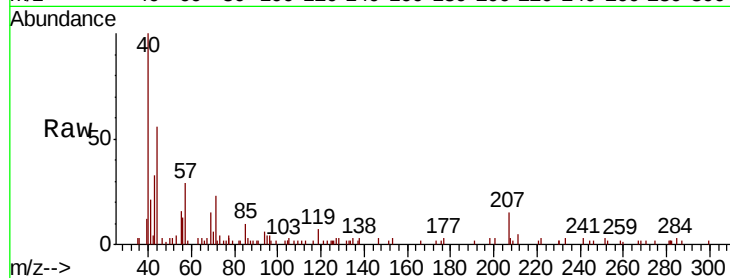
Tot Ion:119 Resp: 904

Ion Ratio Lower Upper

119 100

91 29.7 27.3 81.9

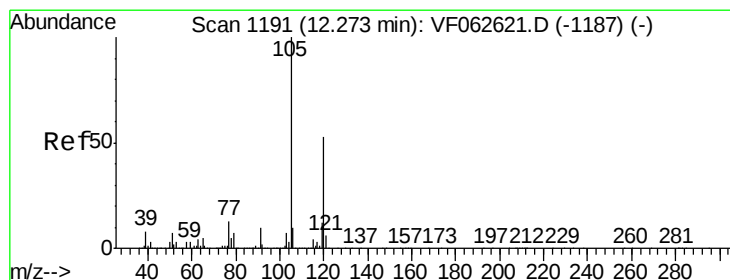
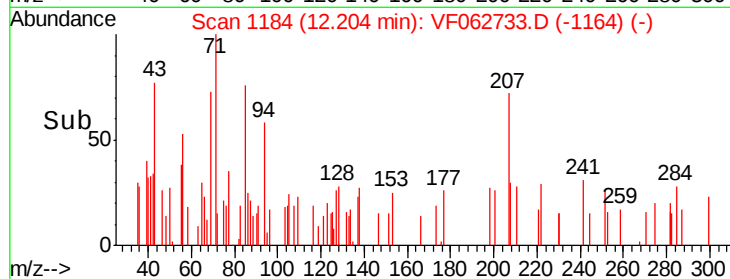
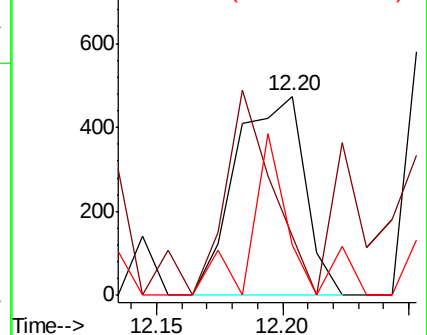
134 25.3 13.6 40.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 13.766 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. -0.00 min

Lab File: VF062733.D

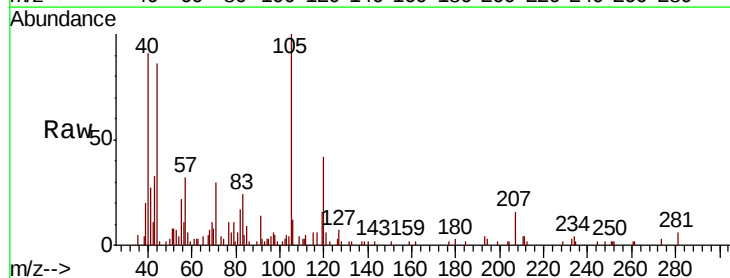
Acq: 23 May 2019 18:10

Tgt Ion:105 Resp: 9661

Ion Ratio Lower Upper

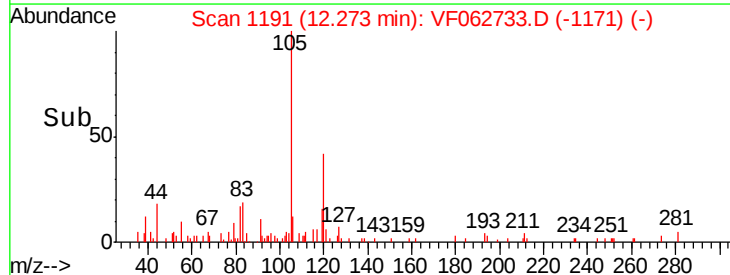
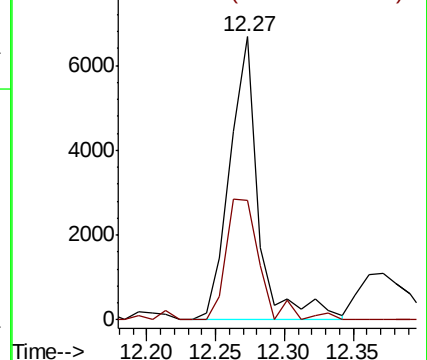
105 100

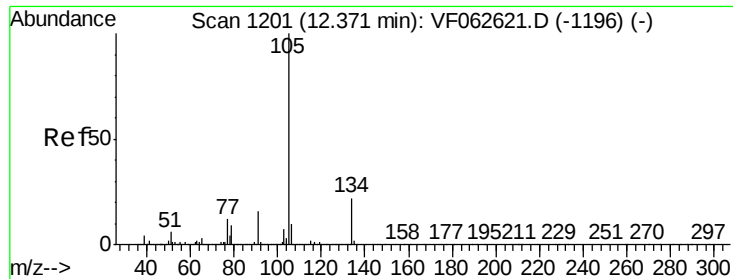
120 42.1 26.7 80.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

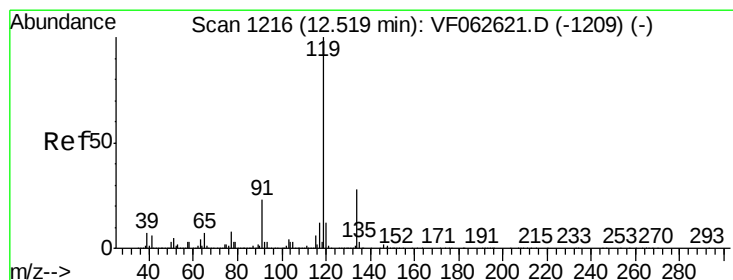
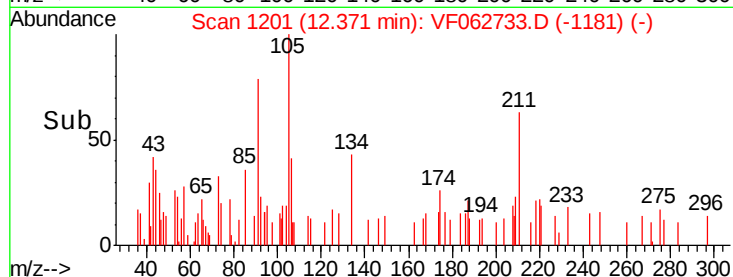
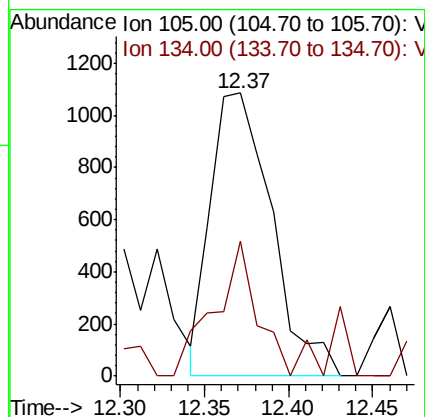
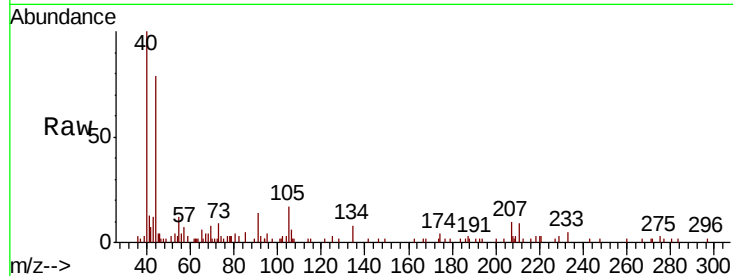




#85
 sec-Butylbenzene
 Concen: 2.778 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF062733.D
 Acq: 23 May 2019 18:10

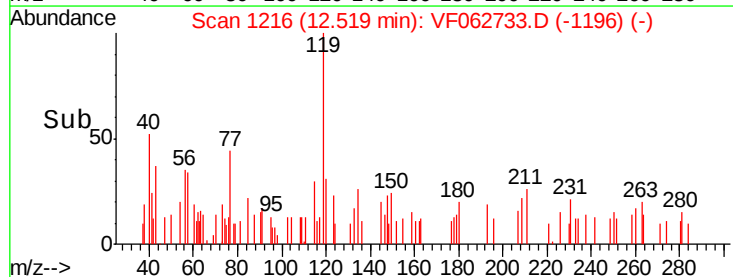
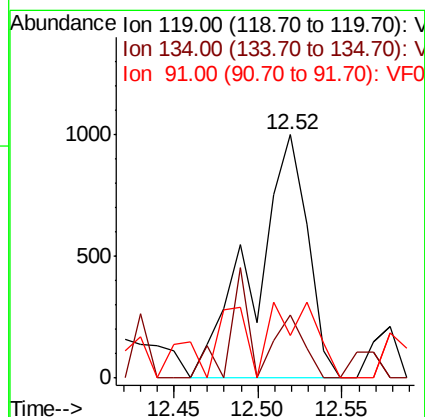
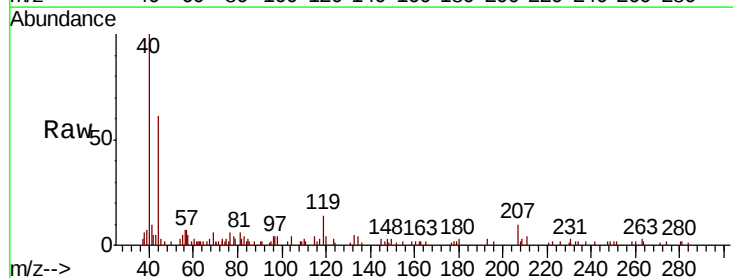
Instrument :
 MSVOA_F
 ClientSampleId :

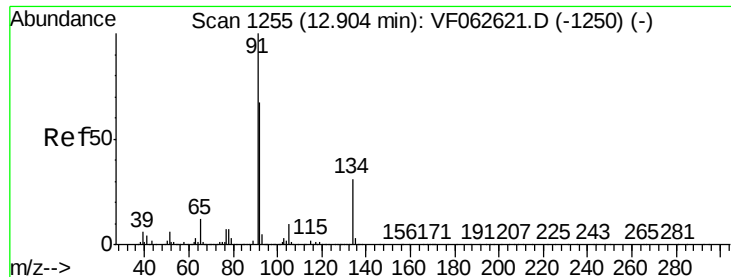
Tot Ion:105 Resp: 2743
 Ion Ratio Lower Upper
 105 100
 134 47.4 10.8 32.4#



#86
 p-Isopropyltoluene
 Concen: 2.626 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. -0.00 min
 Lab File: VF062733.D
 Acq: 23 May 2019 18:10

Tgt Ion:119 Resp: 2185
 Ion Ratio Lower Upper
 119 100
 134 25.9 14.1 42.3
 91 17.3 11.4 34.2





#89

n-Butylbenzene

Concen: 1.699 ug/l

RT: 12.89 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VF062733.D

Acq: 23 May 2019 18:10

Instrument :

MSVOA_F

ClientSampled :

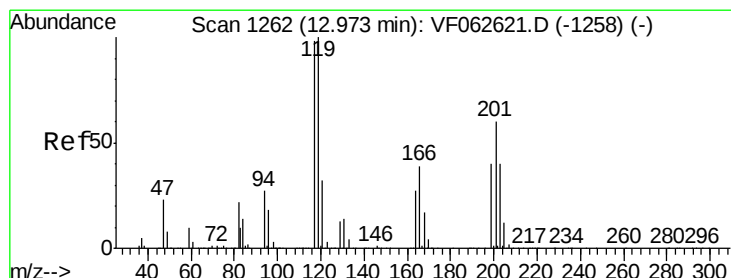
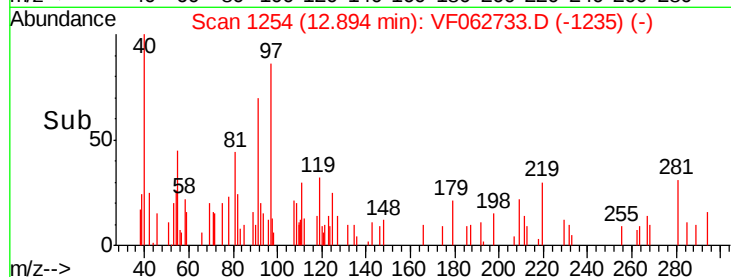
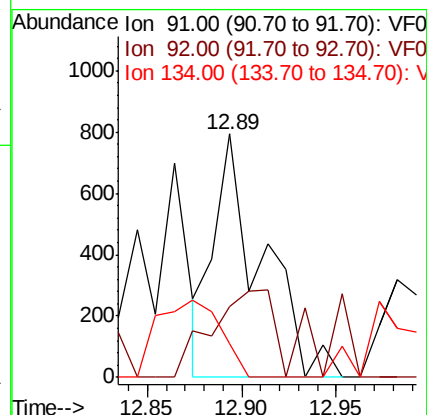
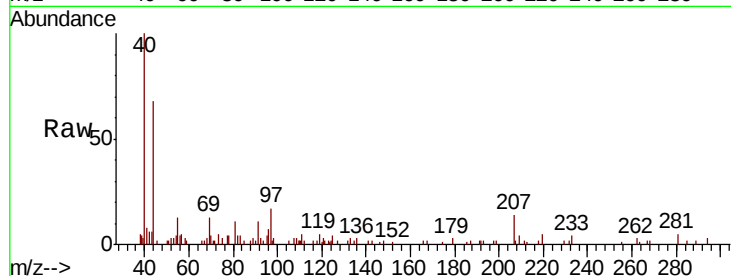
Tot Ion: 91 Resp: 1394

Ion Ratio Lower Upper

91 100

92 29.2 33.3 99.8#

134 13.7 15.4 46.4#



#90

Hexachloroethane

Concen: 1.278 ug/l

RT: 12.97 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VF062733.D

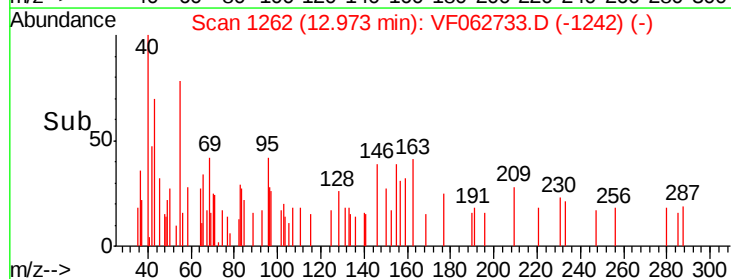
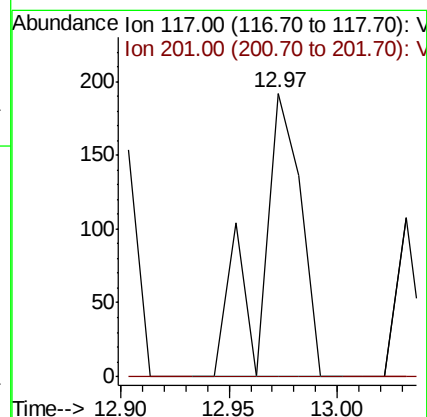
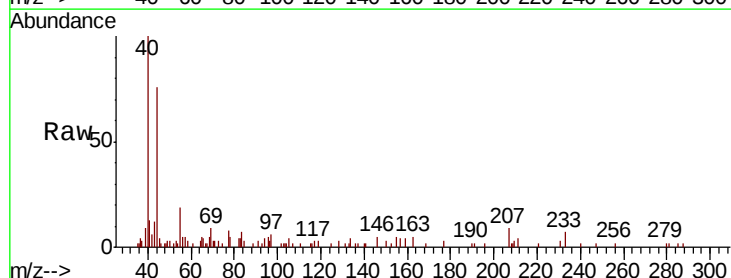
Acq: 23 May 2019 18:10

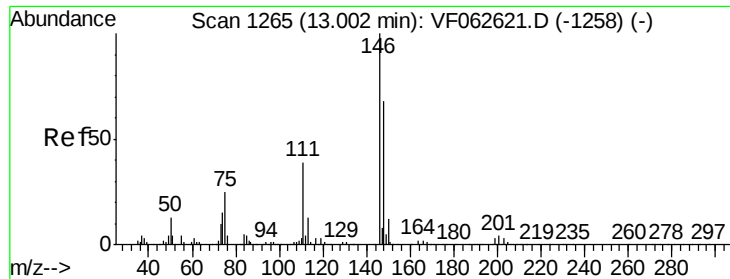
Tgt Ion: 117 Resp: 255

Ion Ratio Lower Upper

117 100

201 0.0 30.7 92.1#

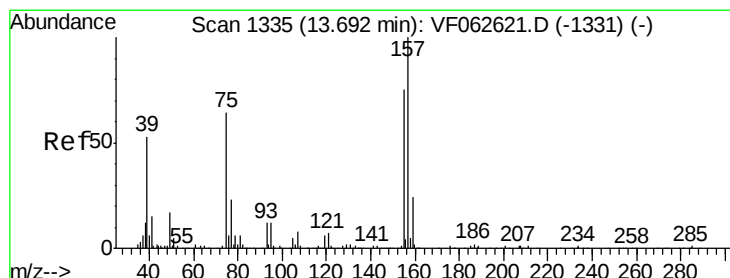
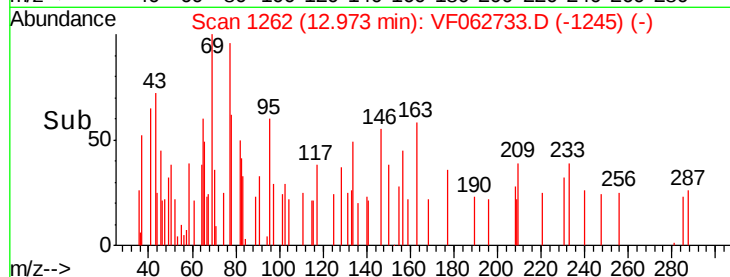
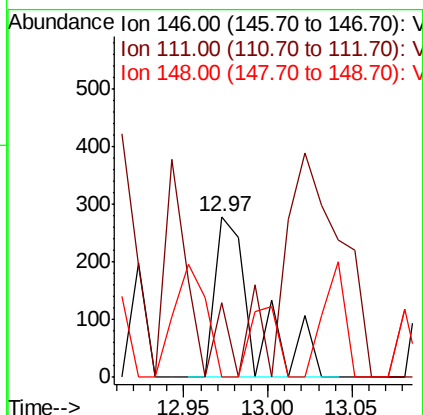
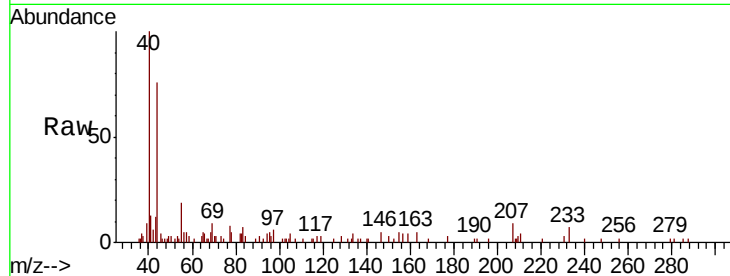




#91
 1,2-Dichlorobenzene
 Concen: 1.247 ug/l
 RT: 12.97 min Scan# 1262
 Delta R.T. -0.03 min
 Lab File: VF062733.D
 Acq: 23 May 2019 18:10

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.2	19.8	59.3
148	0.0	34.1	102.2#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 10.206 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. -0.00 min
 Lab File: VF062733.D
 Acq: 23 May 2019 18:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.6	58.1	174.3
157	0.0	77.8	233.4#

