

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052319\
 Data File : VF062731.D
 Acq On : 23 May 2019 17:15
 Operator : FY/SY
 Sample : K3002-08
 Misc : 5.05µ/5mL/MSVOA F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 22-C6-20190413

Quant Time: May 24 02:15:48 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	827162	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	1338449	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	793415	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	328856	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	234777	40.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.34%	
35) Dibromofluoromethane	4.31	113	451228	44.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.12%	
50) Toluene-d8	7.71	98	990084	40.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.98%	
62) 4-Bromofluorobenzene	11.50	95	330524	35.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.28%	

Target Compounds

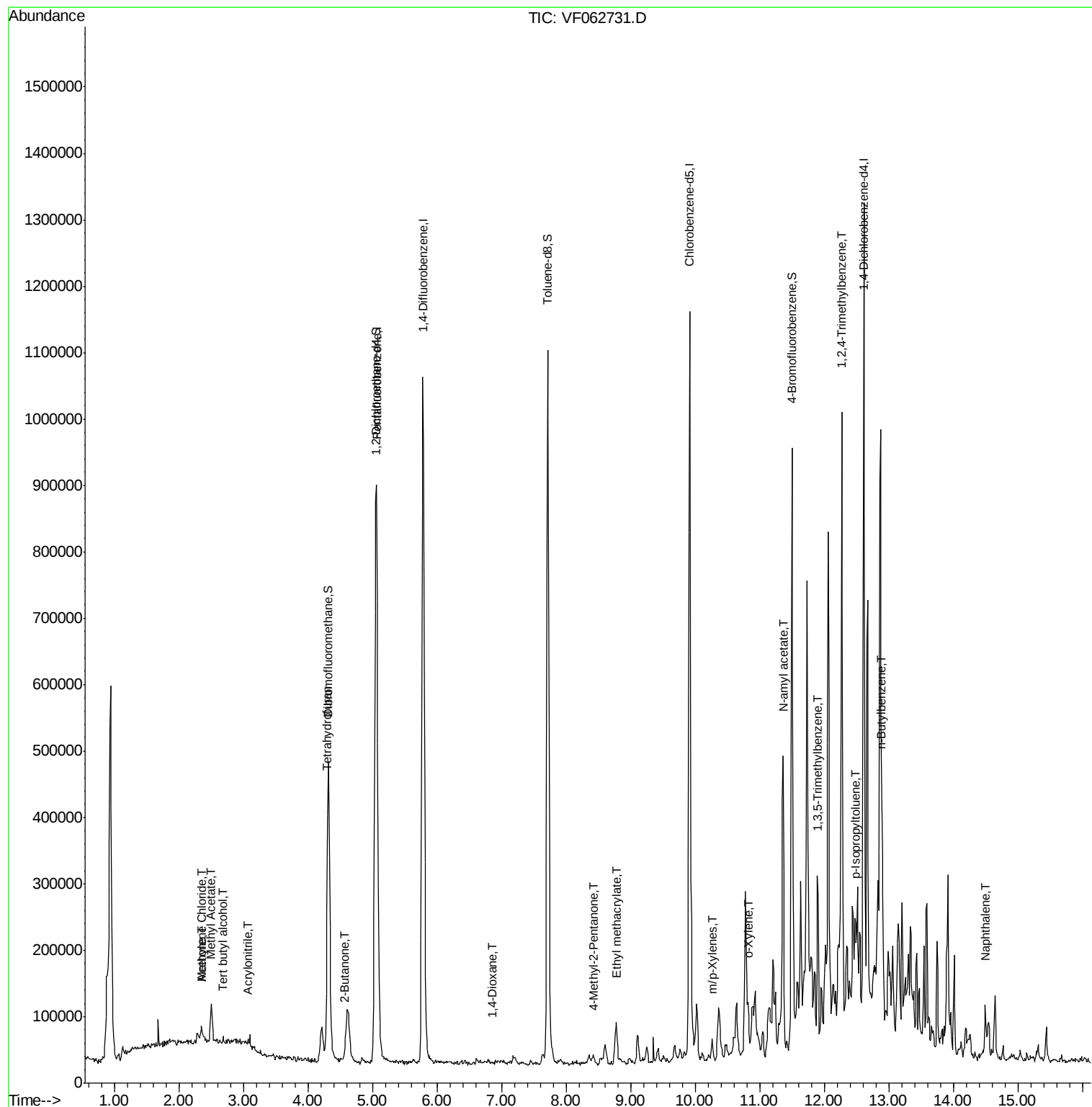
						Qvalue
11) Tert butyl alcohol	2.68	59	473	1.226	ug/l #	1
15) Acrylonitrile	3.08	53	1896	1.742	ug/l #	63
16) Acetone	2.35	43	29281	19.309	ug/l #	81
18) Methyl Acetate	2.50	43	21934	9.205	ug/l #	64
20) Methylene Chloride	2.34	84	8111	1.067	ug/l #	77
25) 2-Butanone	4.56	43	5958	1.839	ug/l #	87
29) Tetrahydrofuran	4.29	42	1426	1.088	ug/l #	63
49) 1,4-Dioxane	6.87	88	112	2.306	ug/l #	1
51) 4-Methyl-2-Pentanone	8.41	43	15504	3.126	ug/l #	60
56) Ethyl methacrylate	8.78	69	33058	4.783	ug/l #	75
59) 2-Hexanone	9.64	43	4087	Below Cal	#	59
68) m/p-Xylenes	10.27	106	11874	1.167	ug/l	80
69) o-Xylene	10.82	106	12335	1.177	ug/l	79
74) N-amyl acetate	11.36	43	41116	1.636	ug/l #	1
80) 1,3,5-Trimethylbenzene	11.89	105	92382	4.888	ug/l	94
84) 1,2,4-Trimethylbenzene	12.27	105	244329	13.357	ug/l	94
86) p-Isopropyltoluene	12.50	119	29306	1.351	ug/l	96
89) n-Butylbenzene	12.90	91	36807	1.721	ug/l #	74
95) Naphthalene	14.50	128	52867	4.303	ug/l	96

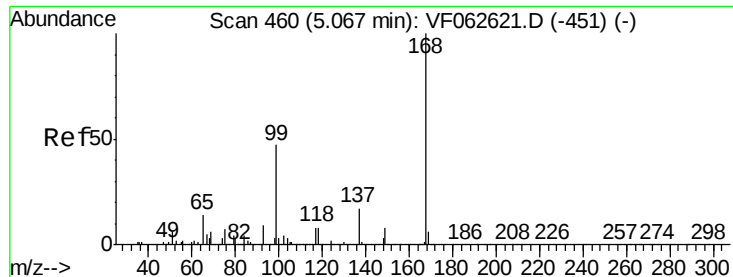
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.00 min

Lab File: VF062731.D

Acq: 23 May 2019 17:15

Instrument :

MSVOA_F

ClientSampleId :

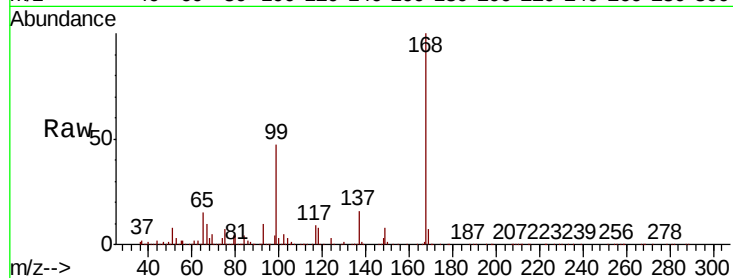
22-C6-20190413

Tot Ion:168 Resp: 827162

Ion Ratio Lower Upper

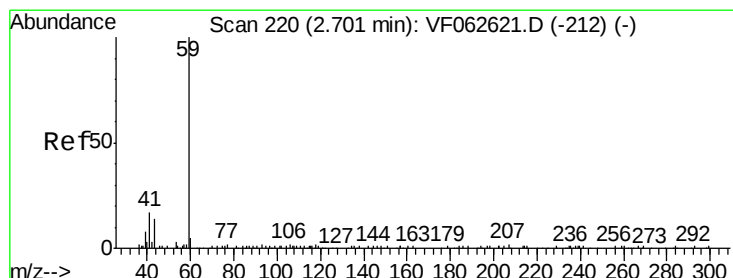
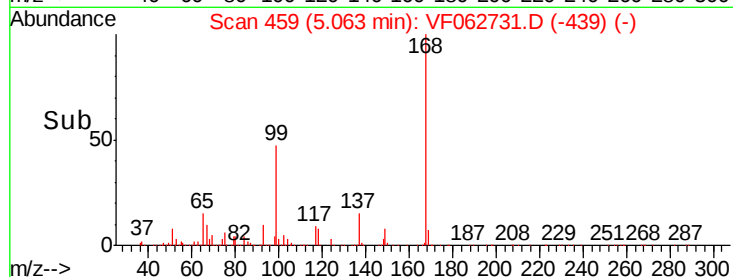
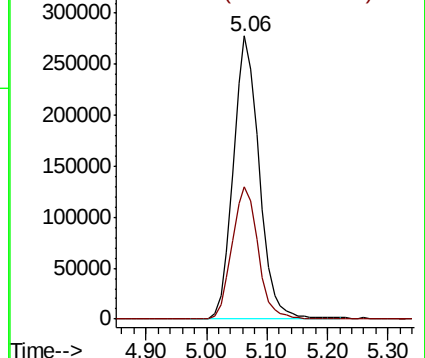
168 100

99 46.8 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 1.226 ug/l

RT: 2.68 min Scan# 217

Delta R.T. -0.02 min

Lab File: VF062731.D

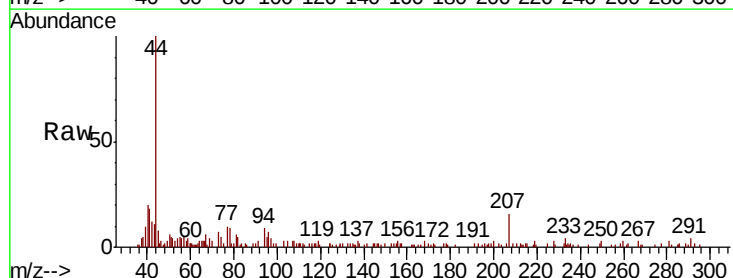
Acq: 23 May 2019 17:15

Tgt Ion: 59 Resp: 473

Ion Ratio Lower Upper

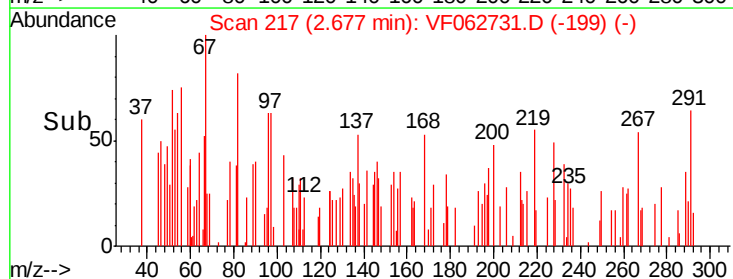
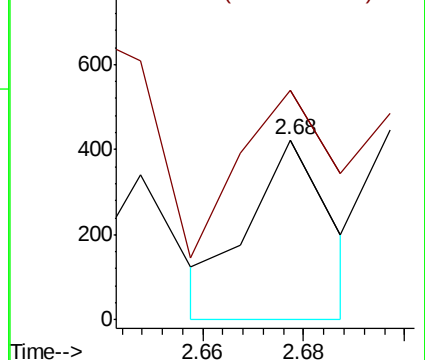
59 100

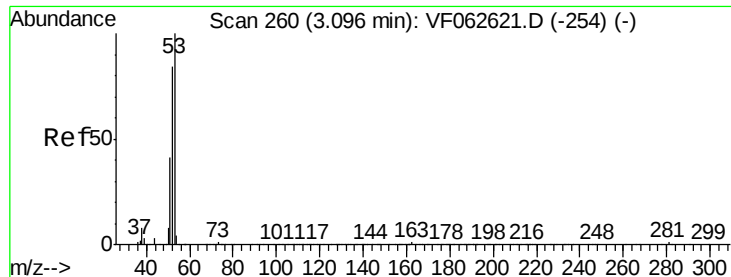
57 127.4 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#15

Acrylonitrile

Concen: 1.742 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF062731.D

Acq: 23 May 2019 17:15

Instrument :

MSVOA_F

ClientSampleId :

22-C6-20190413

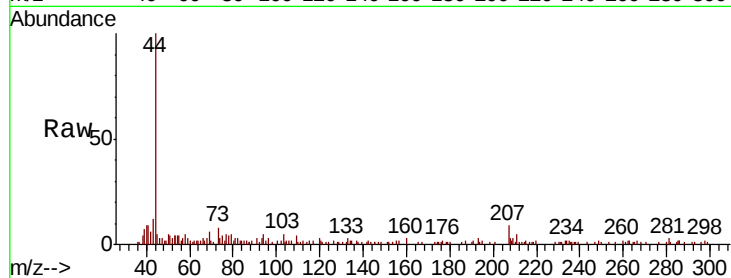
Tot Ion: 53 Resp: 1896

Ion Ratio Lower Upper

53 100

52 40.2 67.3 100.9#

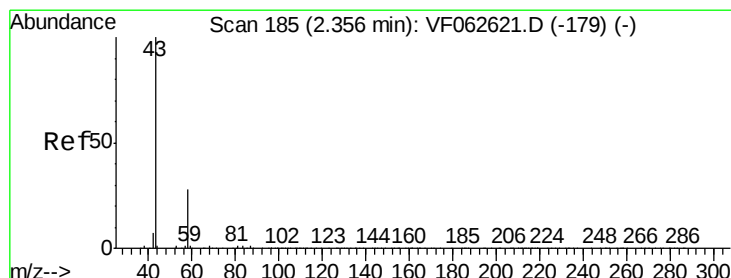
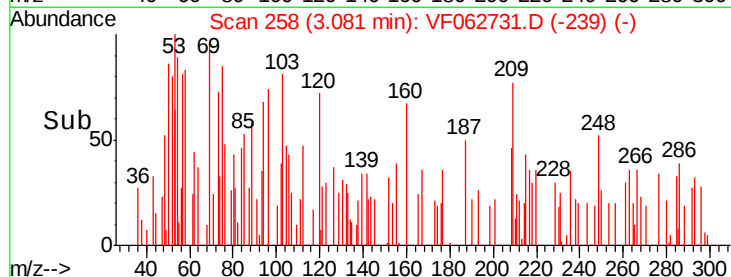
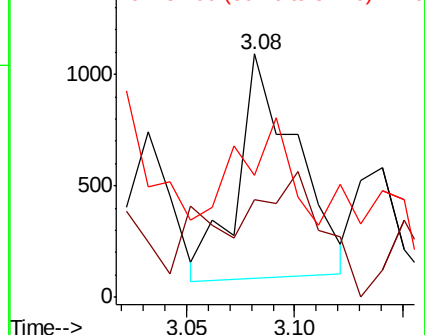
51 50.3 33.0 49.6#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 19.309 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062731.D

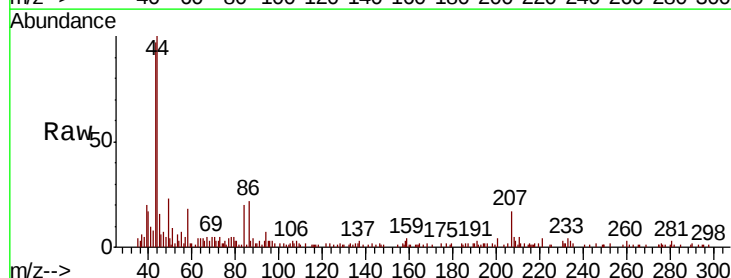
Acq: 23 May 2019 17:15

Tgt Ion: 43 Resp: 29281

Ion Ratio Lower Upper

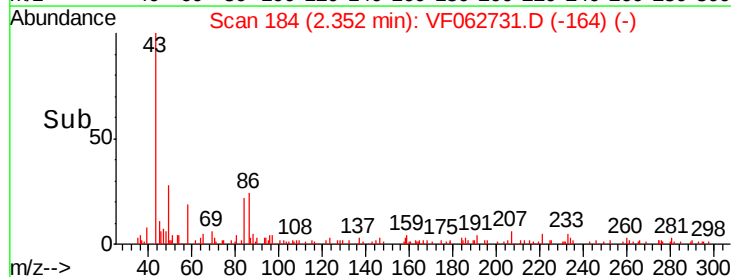
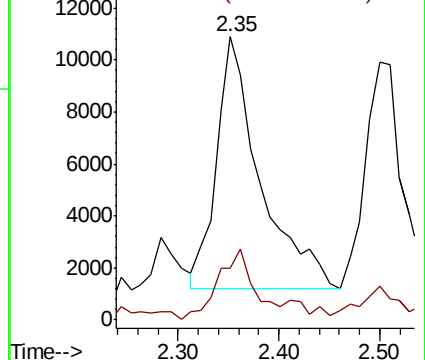
43 100

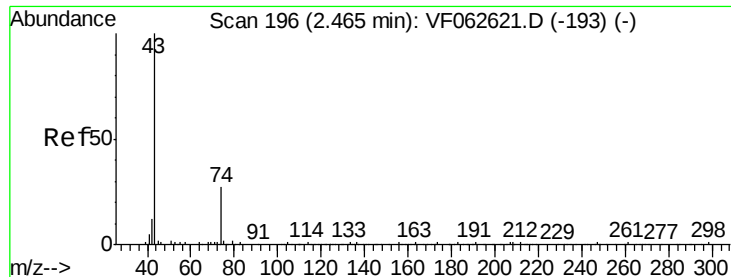
58 18.3 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

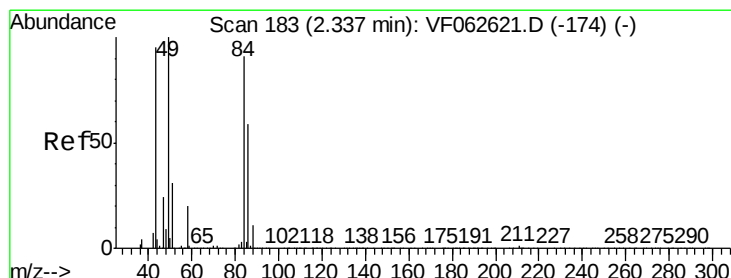
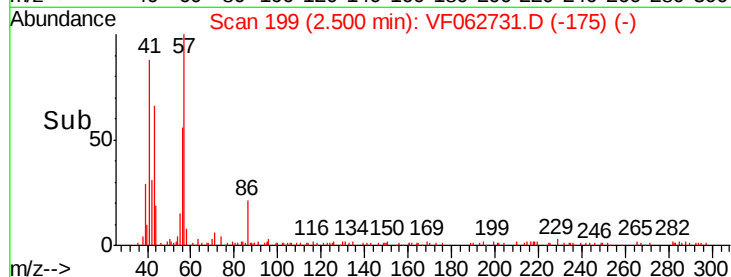
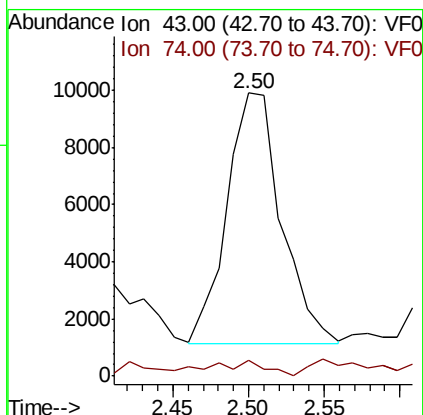
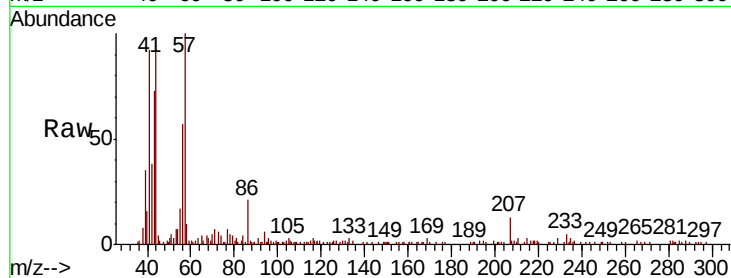




#18
Methyl Acetate
Concen: 9.205 ug/l
RT: 2.50 min Scan# 199
Delta R.T. 0.04 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

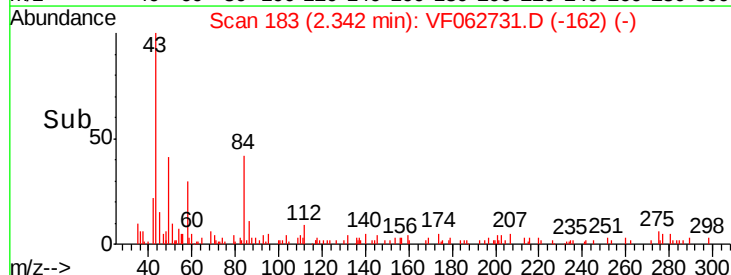
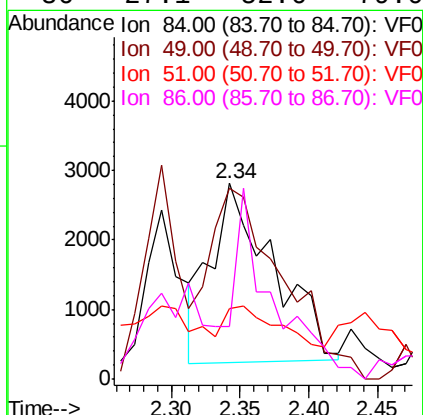
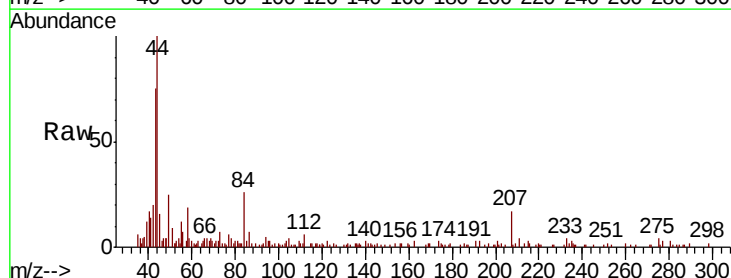
Instrument :
MSVOA_F
ClientSampleId :
22-C6-20190413

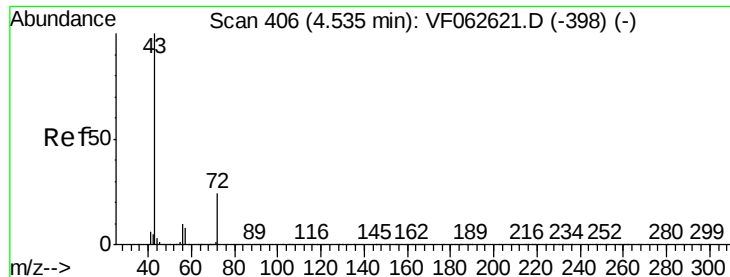
Tot Ion: 43 Resp: 21934
Ion Ratio Lower Upper
43 100
74 5.8 18.9 28.3#



#20
Methylene Chloride
Concen: 1.067 ug/l
RT: 2.34 min Scan# 183
Delta R.T. 0.01 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

Tgt Ion: 84 Resp: 8111
Ion Ratio Lower Upper
84 100
49 97.3 89.8 134.8
51 36.3 28.4 42.6
86 27.1 52.6 79.0#

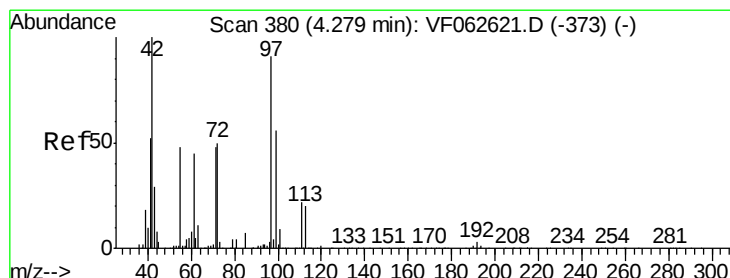
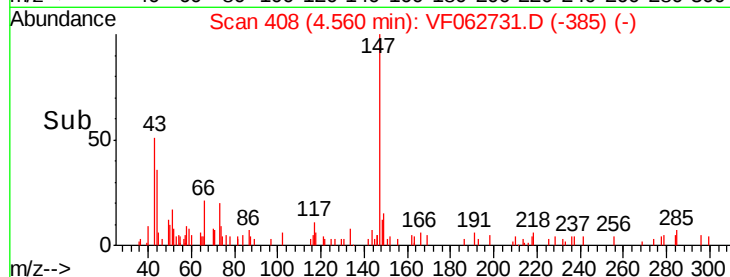
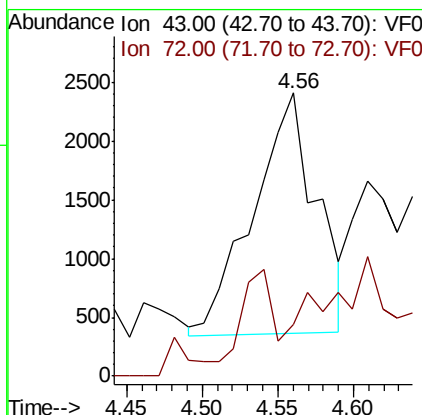
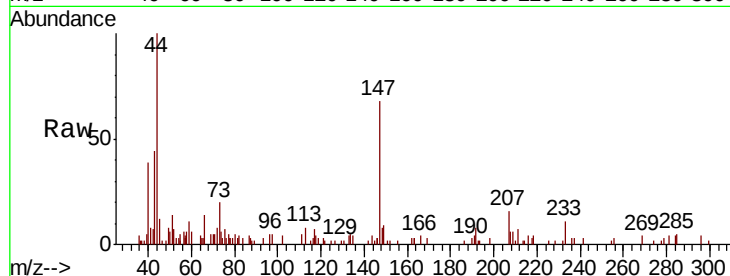




#25
2-Butanone
Concen: 1.839 ug/l
RT: 4.56 min Scan# 408
Delta R.T. 0.03 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

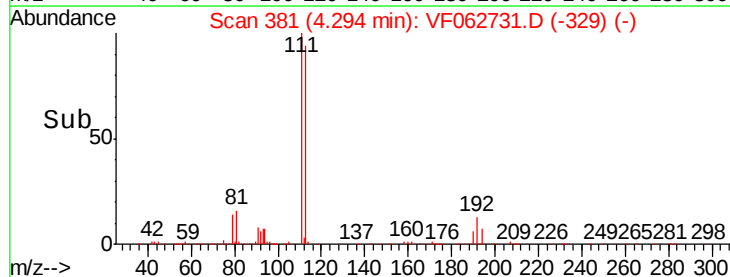
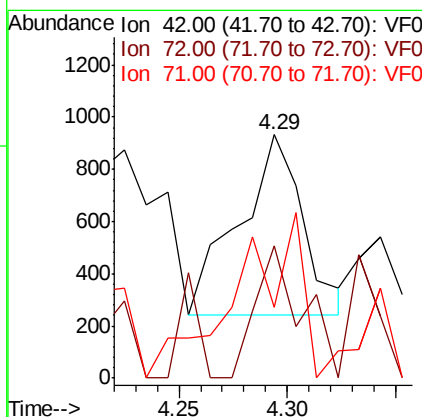
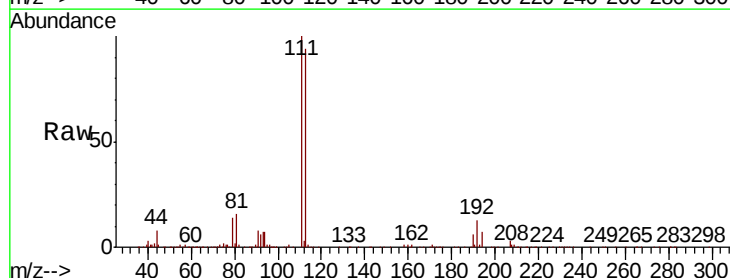
Instrument :
MSVOA_F
ClientSampleId :
22-C6-20190413

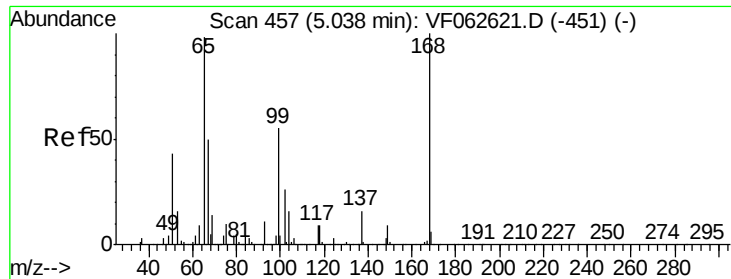
Tot Ion: 43 Resp: 5958
Ion Ratio Lower Upper
43 100
72 18.4 20.1 30.1#



#29
Tetrahydrofuran
Concen: 1.088 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.02 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

Tgt Ion: 42 Resp: 1426
Ion Ratio Lower Upper
42 100
72 53.0 38.2 57.2
71 88.9 35.8 53.6#





#33

1,2-Dichloroethane-d4

Concen: 40.166 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF062731.D

Acq: 23 May 2019 17:15

Instrument :

MSVOA_F

ClientSampleId :

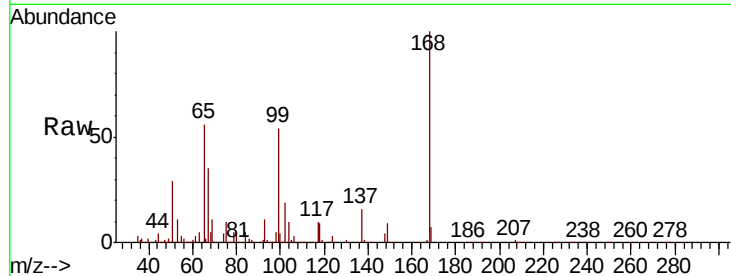
22-C6-20190413

Tot Ion: 65 Resp: 234777

Ion Ratio Lower Upper

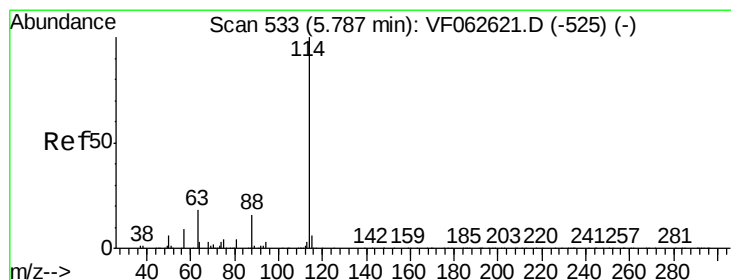
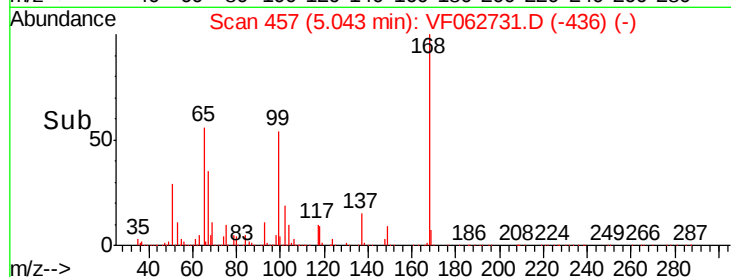
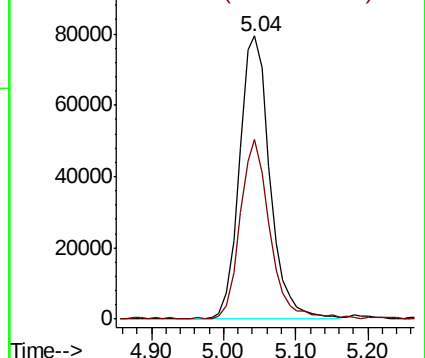
65 100

67 63.6 0.0 117.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.00 min

Lab File: VF062731.D

Acq: 23 May 2019 17:15

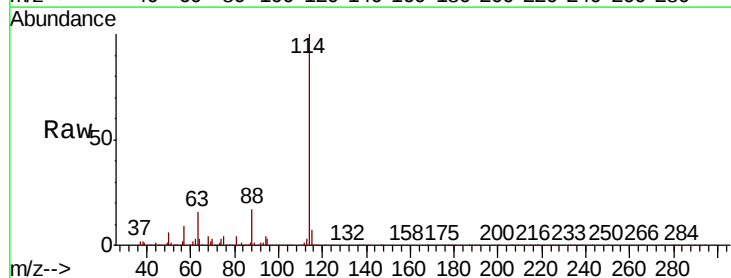
Tgt Ion: 114 Resp: 1338449

Ion Ratio Lower Upper

114 100

63 16.4 0.0 35.4

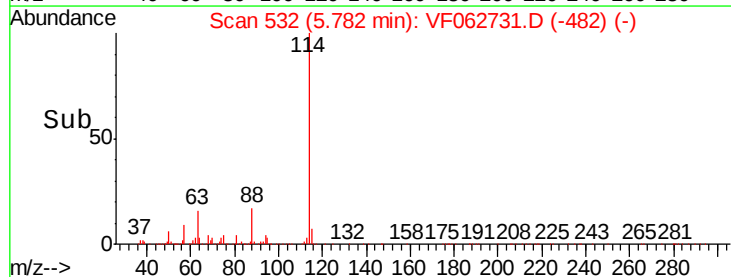
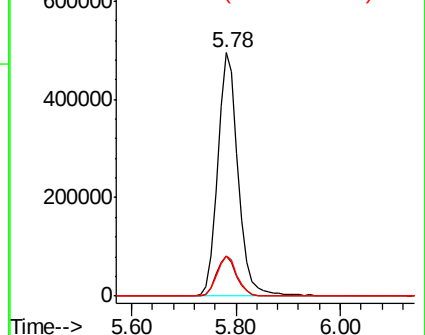
88 16.6 0.0 32.4

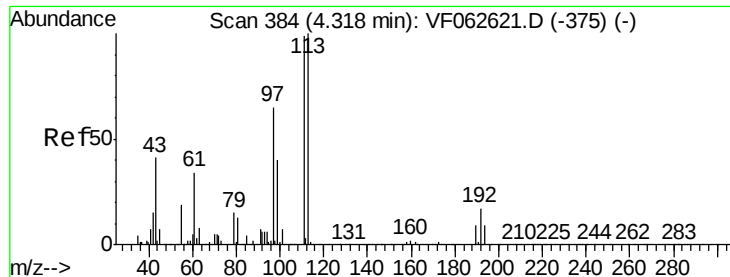


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

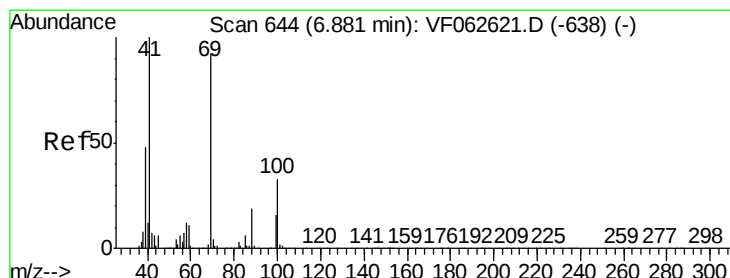
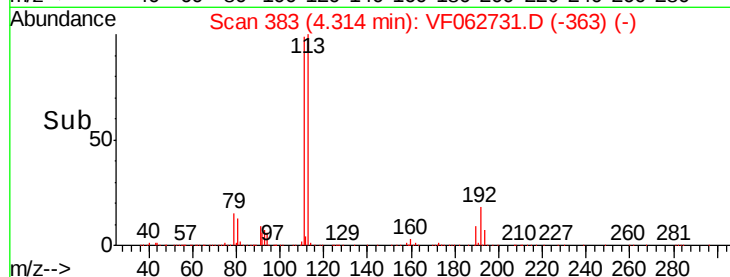
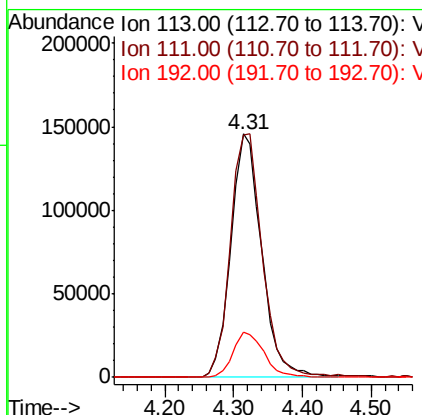
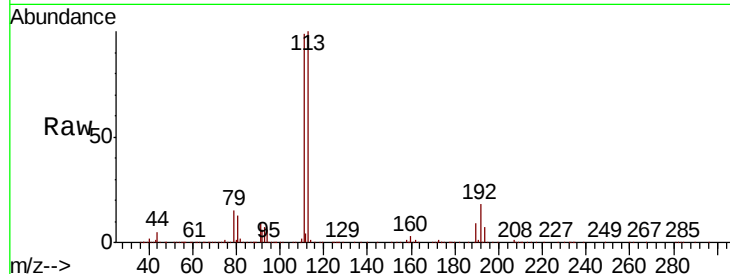




#35
 Dibromofluoromethane
 Concen: 44.057 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. -0.00 min
 Lab File: VF062731.D
 Acq: 23 May 2019 17:15

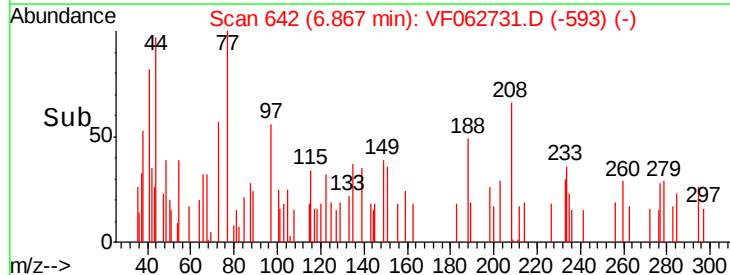
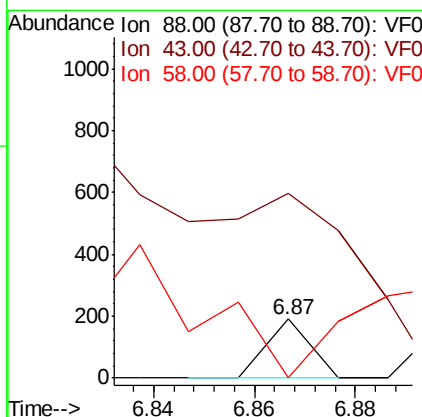
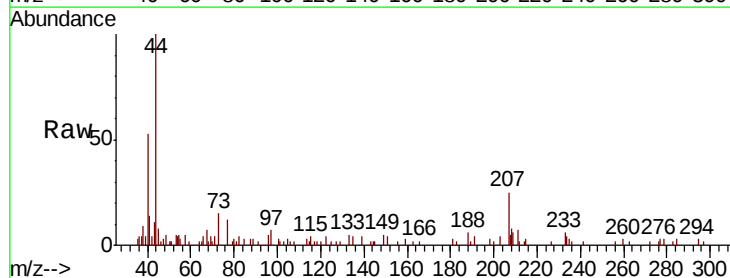
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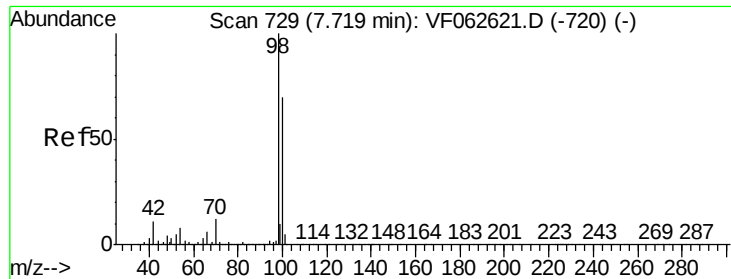
Tot Ion	Ratio	Lower	Upper
113	100		
111	99.5	79.4	119.2
192	18.7	13.4	20.2



#49
 1,4-Dioxane
 Concen: 2.306 ug/l
 RT: 6.87 min Scan# 642
 Delta R.T. -0.01 min
 Lab File: VF062731.D
 Acq: 23 May 2019 17:15

Tgt Ion	Ratio	Lower	Upper
88	100		
43	313.7	30.0	45.0#
58	0.0	51.1	76.7#

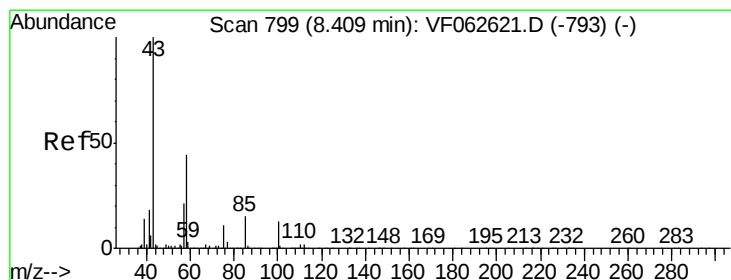
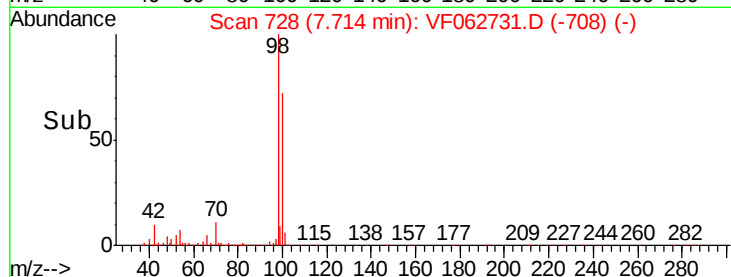
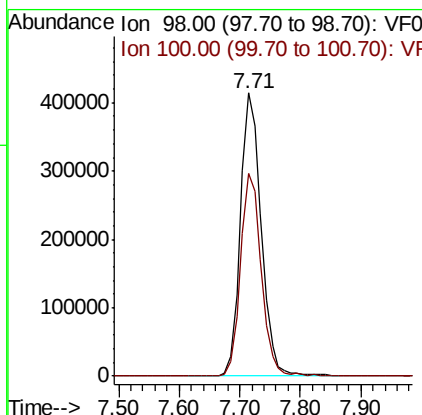
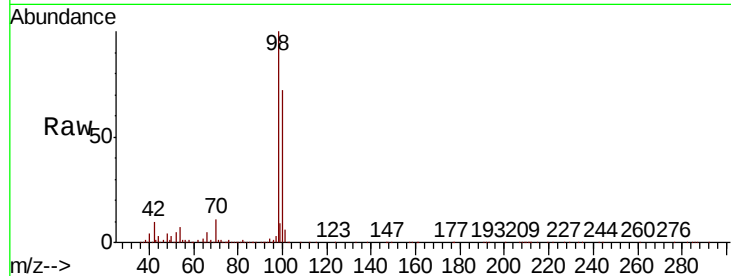




#50
Toluene-d8
Concen: 40.488 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.00 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

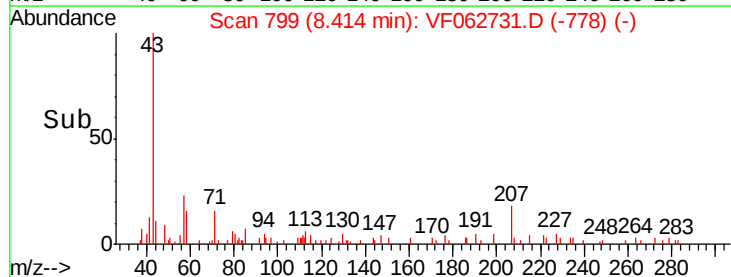
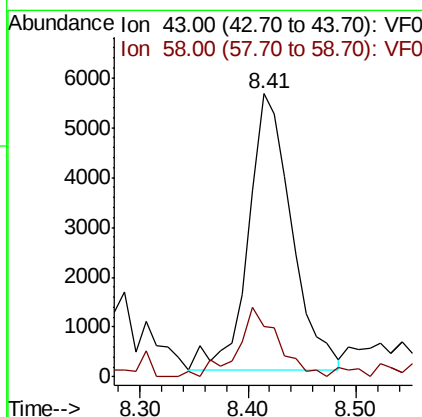
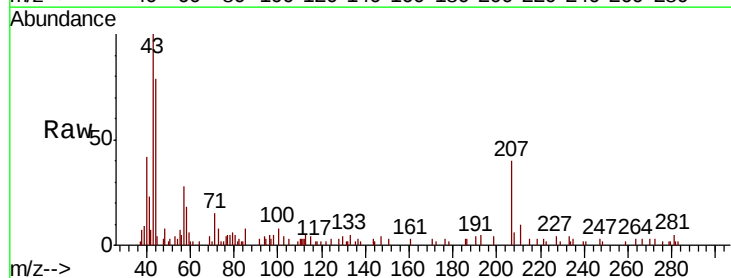
Instrument :
MSVOA_F
ClientSampleId :
22-C6-20190413

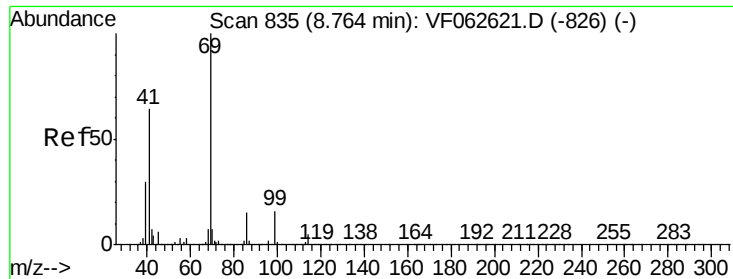
Tot Ion: 98 Resp: 990084
Ion Ratio Lower Upper
98 100
100 71.6 56.2 84.2



#51
4-Methyl-2-Pentanone
Concen: 3.126 ug/l
RT: 8.41 min Scan# 799
Delta R.T. 0.01 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

Tgt Ion: 43 Resp: 15504
Ion Ratio Lower Upper
43 100
58 17.8 34.9 52.3#





#56

Ethyl methacrylate

Concen: 4.783 ug/l

RT: 8.78 min Scan# 836

Delta R.T. 0.02 min

Lab File: VF062731.D

Acq: 23 May 2019 17:15

Instrument :

MSVOA_F

ClientSampleId :

22-C6-20190413

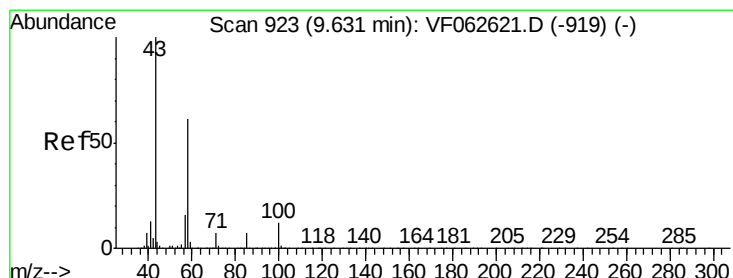
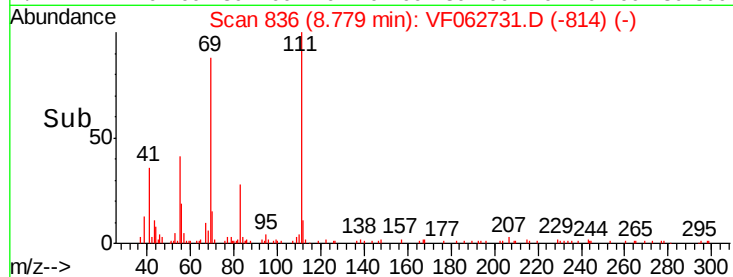
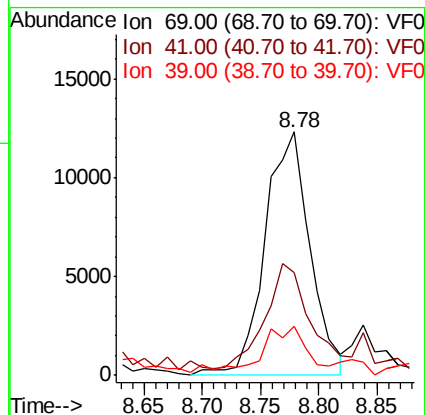
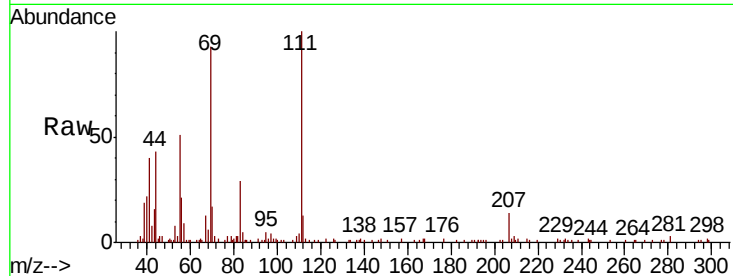
Tot Ion: 69 Resp: 33058

Ion Ratio Lower Upper

69 100

41 42.5 51.4 77.2#

39 19.9 23.6 35.4#



#59

2-Hexanone

Concen: Below Cal

RT: 9.64 min Scan# 923

Delta R.T. 0.01 min

Lab File: VF062731.D

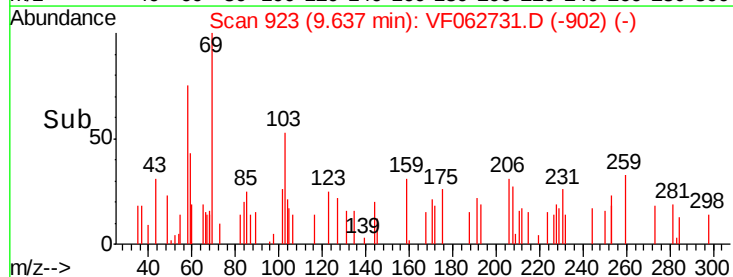
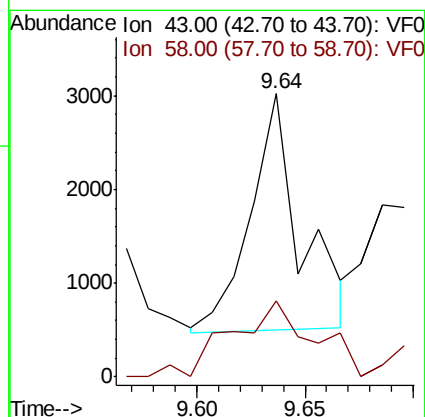
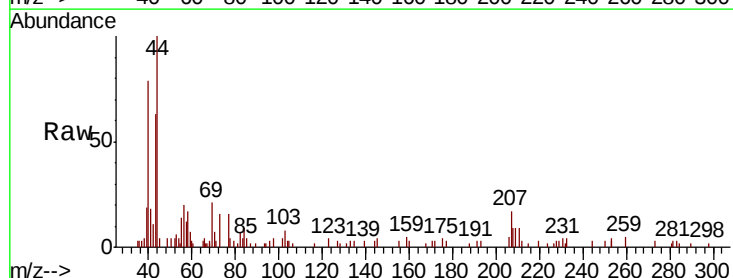
Acq: 23 May 2019 17:15

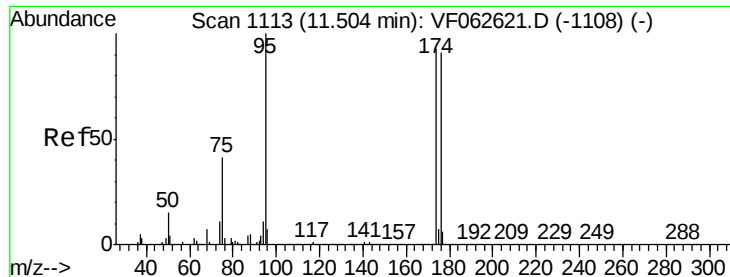
Tgt Ion: 43 Resp: 4087

Ion Ratio Lower Upper

43 100

58 26.7 28.1 84.4#





#62

4-Bromofluorobenzene

Concen: 35.638 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF062731.D

Acq: 23 May 2019 17:15

Instrument :

MSVOA_F

ClientSampleId :

22-C6-20190413

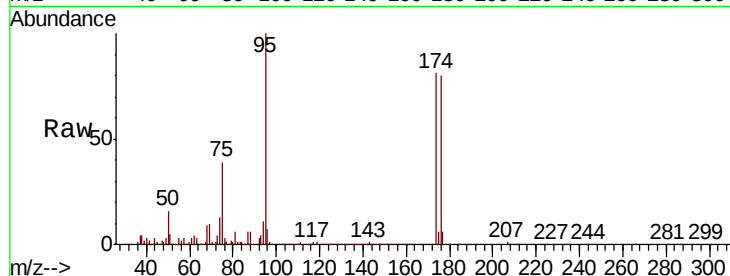
Tot Ion: 95 Resp: 330524

Ion Ratio Lower Upper

95 100

174 80.6 0.0 185.6

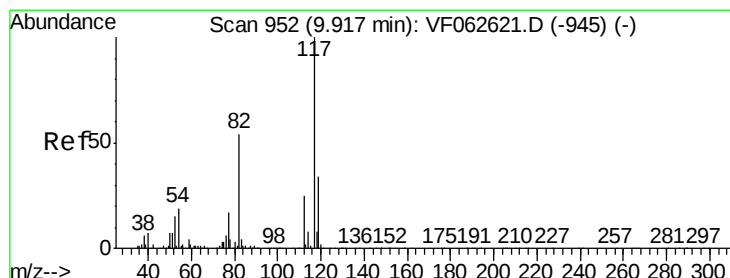
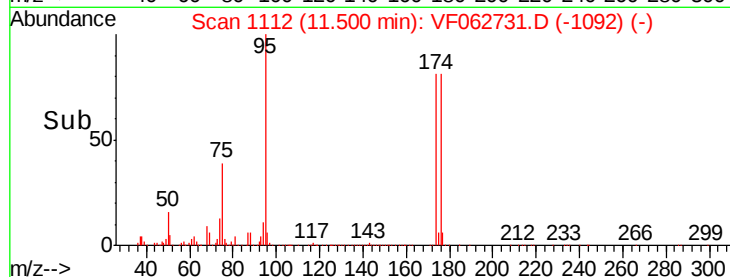
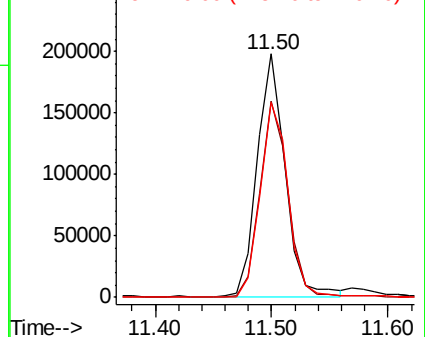
176 80.1 0.0 182.4



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: 9.91 min Scan# 951

Delta R.T. -0.00 min

Lab File: VF062731.D

Acq: 23 May 2019 17:15

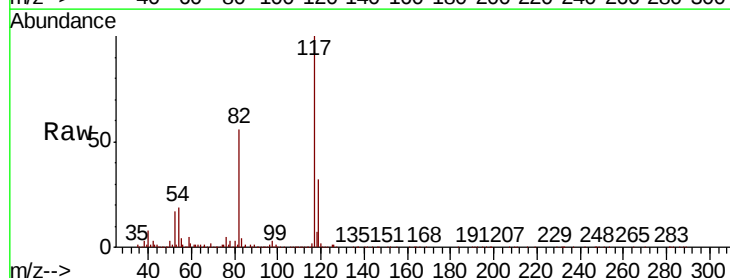
Tgt Ion: 117 Resp: 793415

Ion Ratio Lower Upper

117 100

82 55.6 43.3 64.9

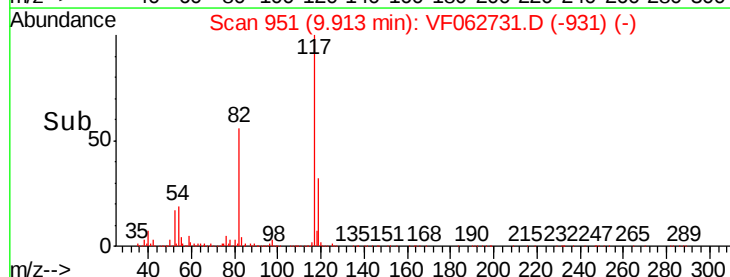
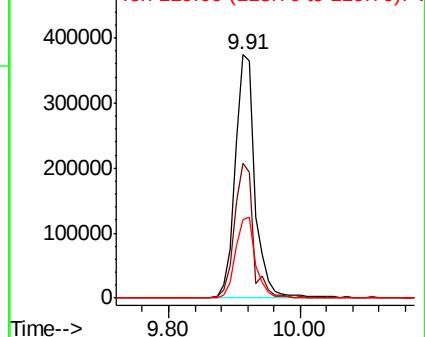
119 32.5 27.4 41.0

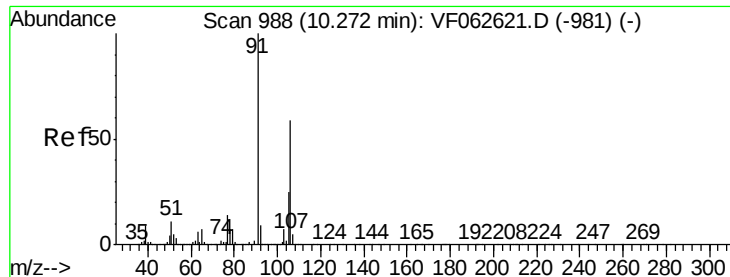


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

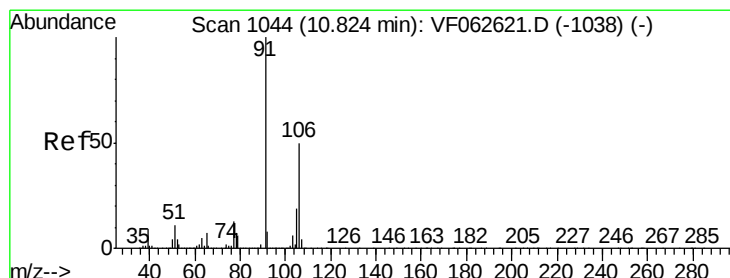
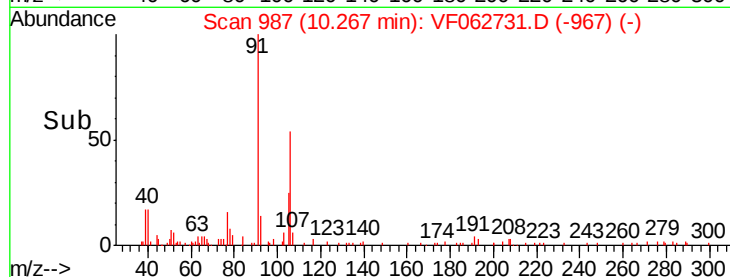
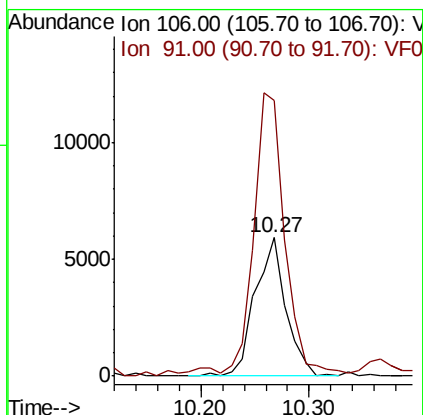
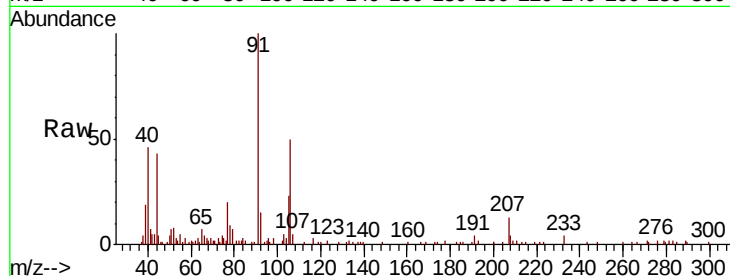




#68
m/p-Xylenes
Concen: 1.167 ug/l
RT: 10.27 min Scan# 987
Delta R.T. -0.00 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

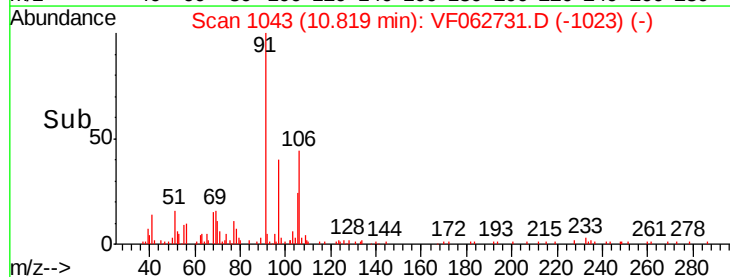
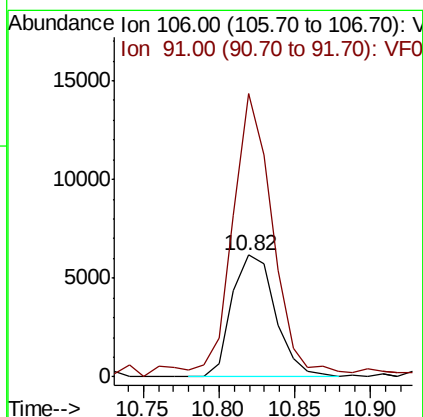
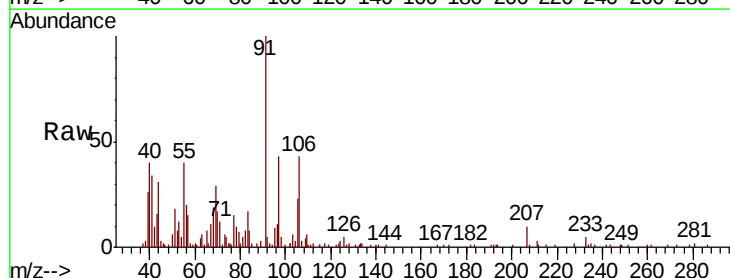
Instrument :
MSVOA_F
ClientSampleId :
22-C6-20190413

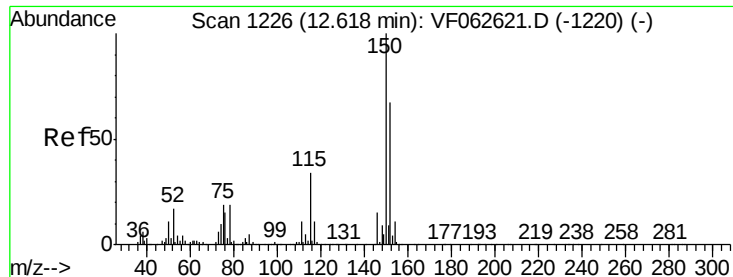
Tot Ion:106 Resp: 11874
Ion Ratio Lower Upper
106 100
91 198.7 136.9 205.3



#69
o-Xylene
Concen: 1.177 ug/l
RT: 10.82 min Scan# 1043
Delta R.T. -0.00 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

Tgt Ion:106 Resp: 12335
Ion Ratio Lower Upper
106 100
91 232.4 100.2 300.5



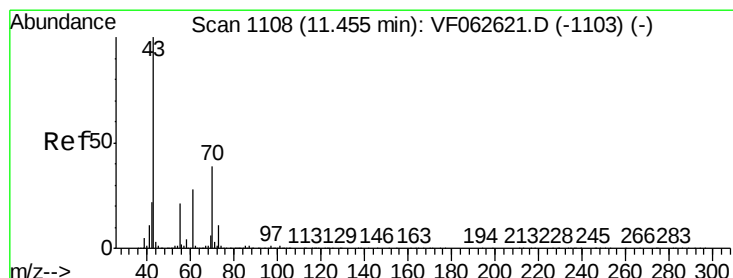
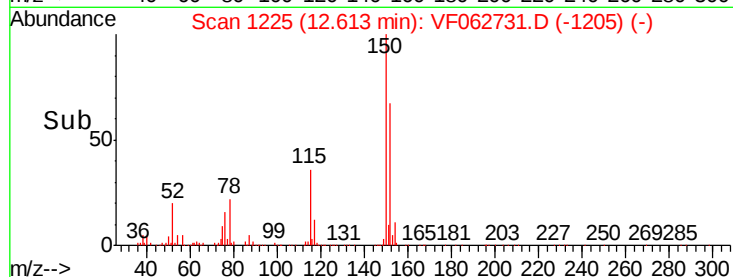
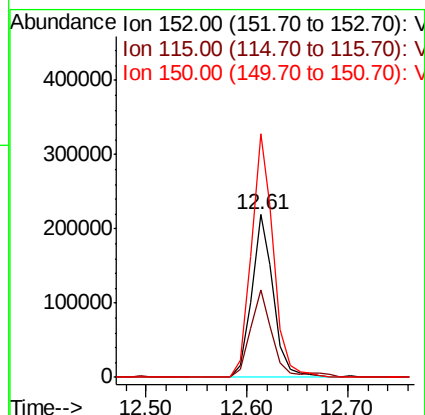
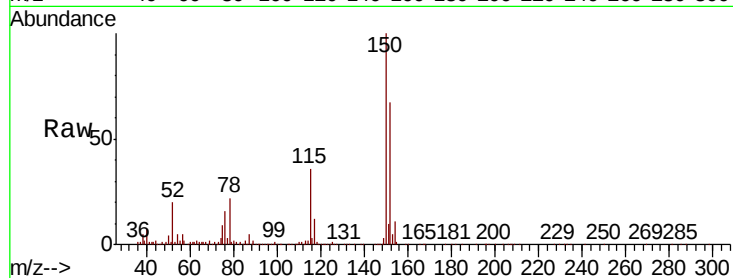


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.00 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

Instrument :
MSVOA_F
ClientSampleId :
22-C6-20190413

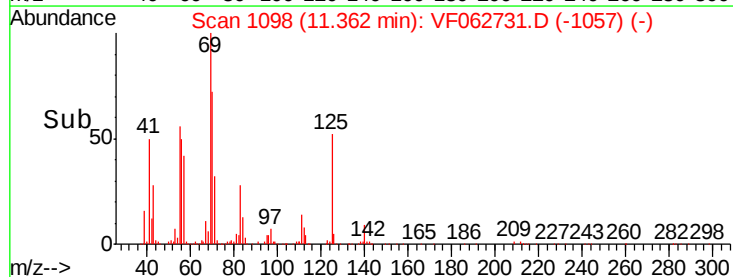
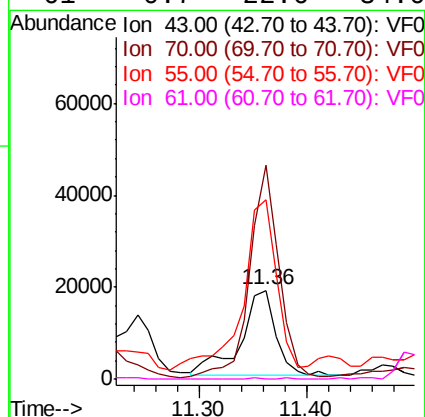
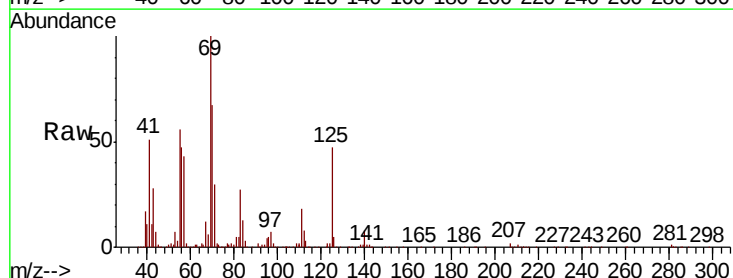
Tot Ion	Ratio	Lower	Upper
152	100		
115	53.4	25.2	75.6
150	149.6	0.0	306.2

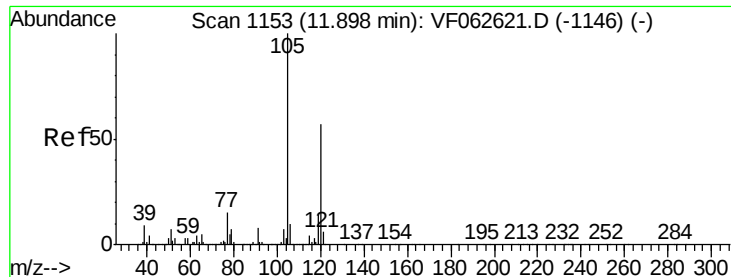


#74

N-ethyl acetate
Concen: 1.636 ug/l
RT: 11.36 min Scan# 1098
Delta R.T. -0.09 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

Tgt Ion	Ratio	Lower	Upper
43	100		
70	241.4	30.9	46.3#
55	202.3	17.0	25.4#
61	0.7	22.6	34.0#





#80

1,3,5-Trimethylbenzene

Concen: 4.888 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF062731.D

Acq: 23 May 2019 17:15

Instrument :

MSVOA_F

ClientSampleId :

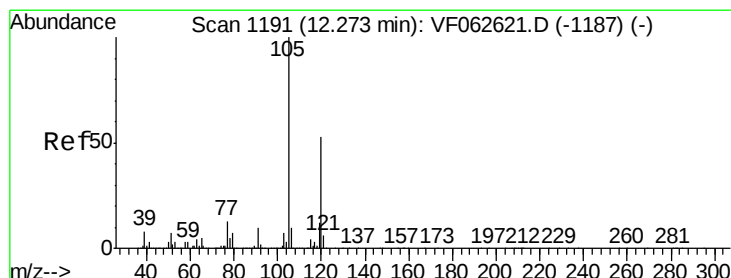
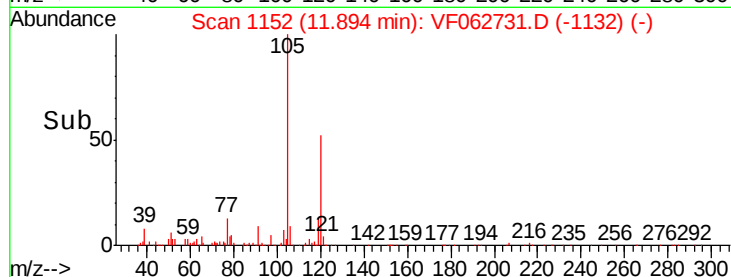
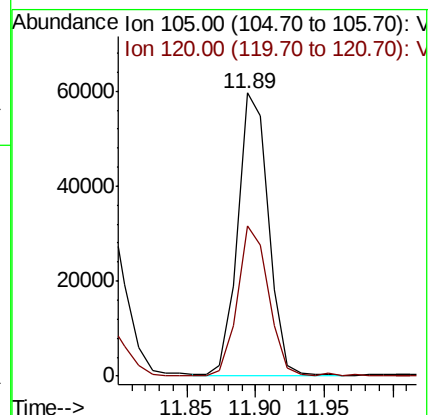
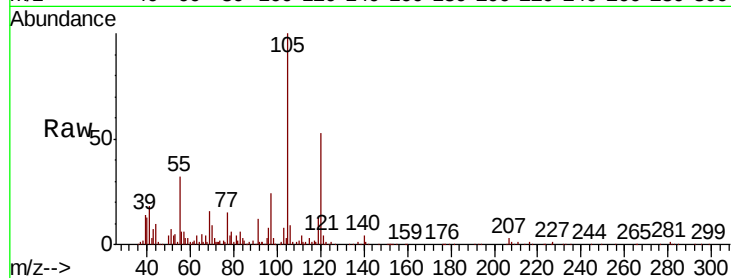
22-C6-20190413

Tot Ion:105 Resp: 92382

Ion Ratio Lower Upper

105 100

120 53.2 28.7 86.3



#84

1,2,4-Trimethylbenzene

Concen: 13.357 ug/l

RT: 12.27 min Scan# 1190

Delta R.T. -0.00 min

Lab File: VF062731.D

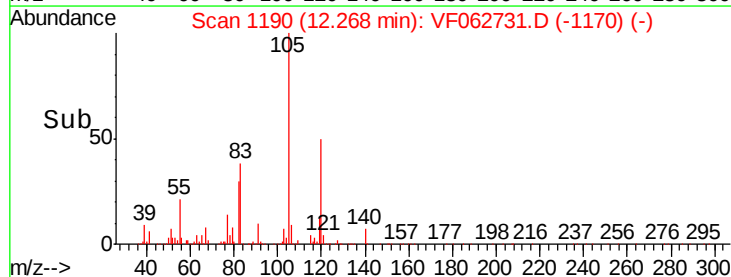
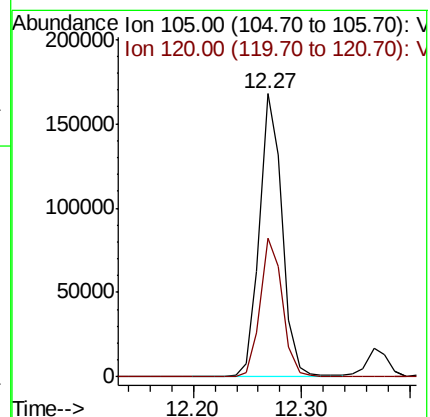
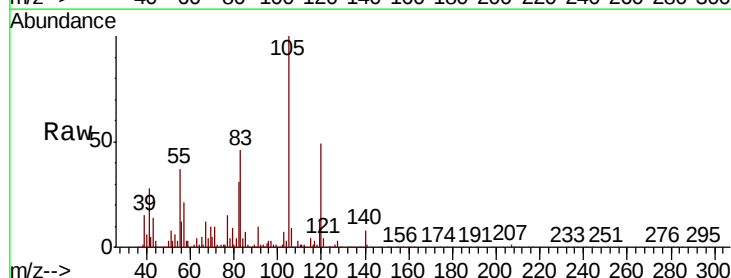
Acq: 23 May 2019 17:15

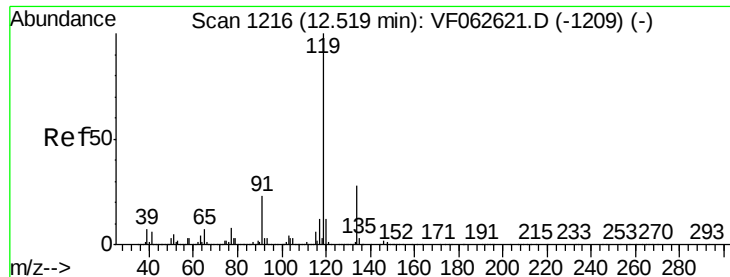
Tgt Ion:105 Resp: 244329

Ion Ratio Lower Upper

105 100

120 49.2 26.7 80.1

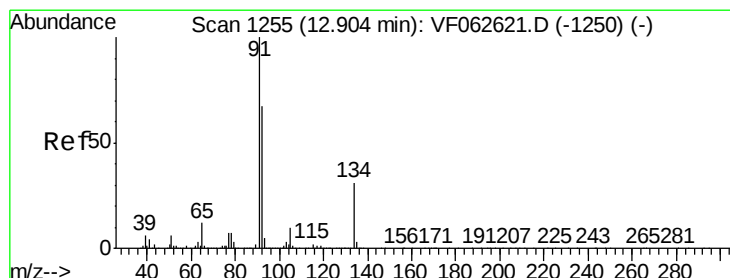
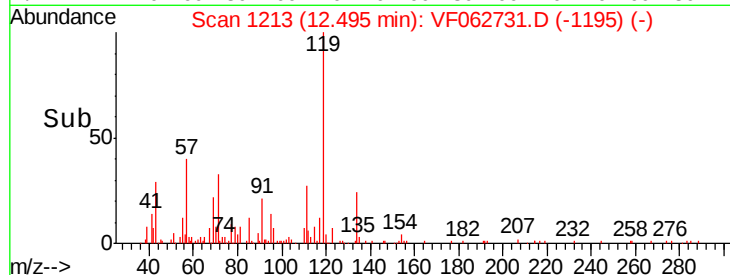
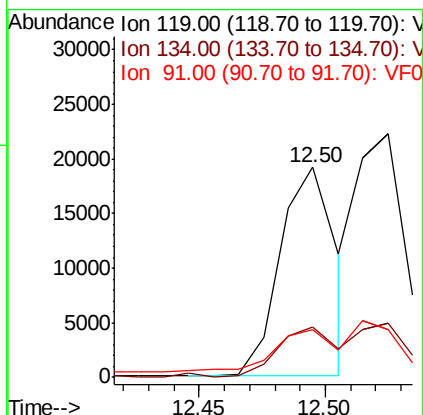
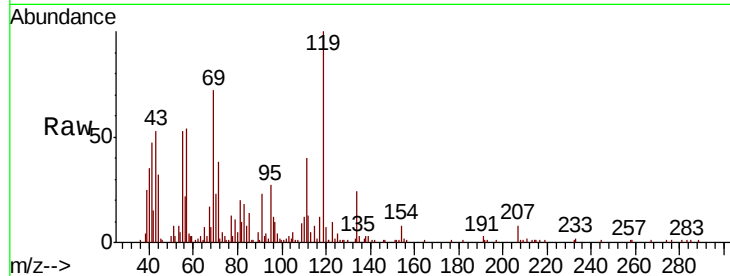




#86
p-Isopropyltoluene
Concen: 1.351 ug/l
RT: 12.50 min Scan# 1213
Delta R.T. -0.02 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

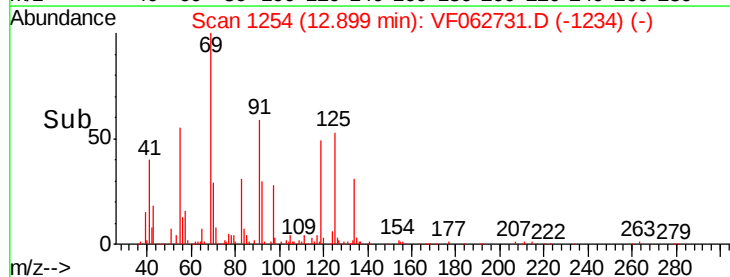
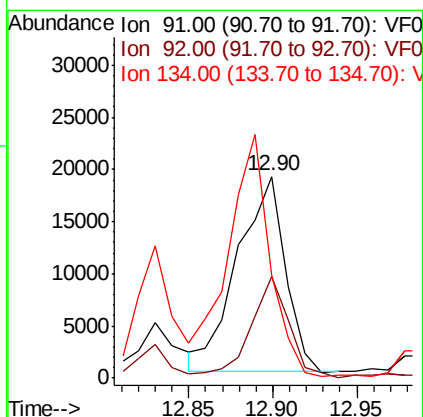
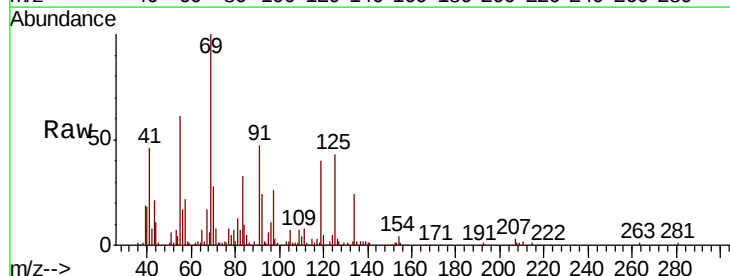
Instrument :
MSVOA_F
ClientSampleId :
22-C6-20190413

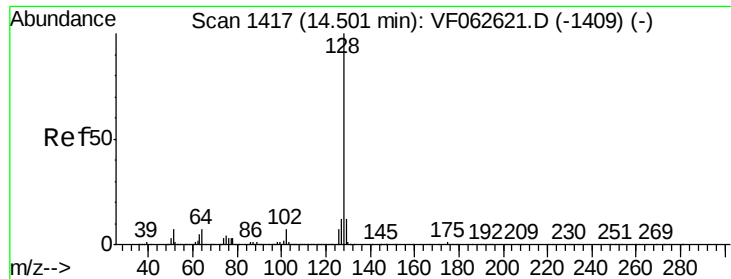
Tot Ion	Ratio	Lower	Upper
119	100		
134	24.2	14.1	42.3
91	22.7	11.4	34.2



#89
n-Butylbenzene
Concen: 1.721 ug/l
RT: 12.90 min Scan# 1254
Delta R.T. -0.00 min
Lab File: VF062731.D
Acq: 23 May 2019 17:15

Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.0	33.3	99.8
134	51.1	15.4	46.4





#95

Naphthalene

Concen: 4.303 ug/l

RT: 14.50 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF062731.D

Acq: 23 May 2019 17:15

Instrument :

MSVOA_F

ClientSampleId :

22-C6-20190413

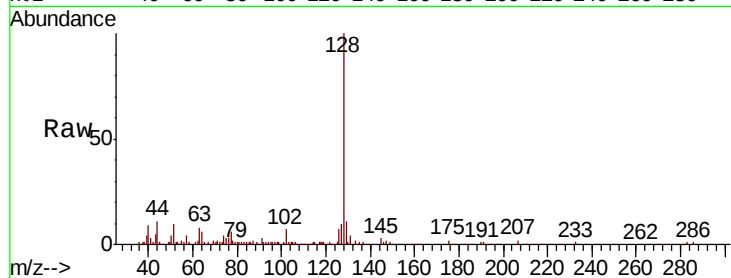
Tot Ion:128 Resp: 52867

Ion Ratio Lower Upper

128 100

127 9.7 9.7 14.5

129 11.2 9.3 13.9



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

