

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052219\
 Data File : VF062713.D
 Acq On : 22 May 2019 18:42
 Operator : FY/SY
 Sample : K3002-05RE
 Misc : 5.05µ/5mL/MSVOA F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 23-C3-20190399

Quant Time: May 23 01:24:16 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	5.05	168	727096	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	1215634	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.90	117	763385	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.60	152	271619	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	241378	46.98	ug/l	-0.02
Spiked Amount 50.000			Recovery =	93.96%		
35) Dibromofluoromethane	4.30	113	460304	49.48	ug/l	-0.02
Spiked Amount 50.000			Recovery =	98.96%		
50) Toluene-d8	7.70	98	970833	43.71	ug/l	-0.02
Spiked Amount 50.000			Recovery =	87.42%		
62) 4-Bromofluorobenzene	11.48	95	251177	29.82	ug/l	-0.02
Spiked Amount 50.000			Recovery =	59.64%		

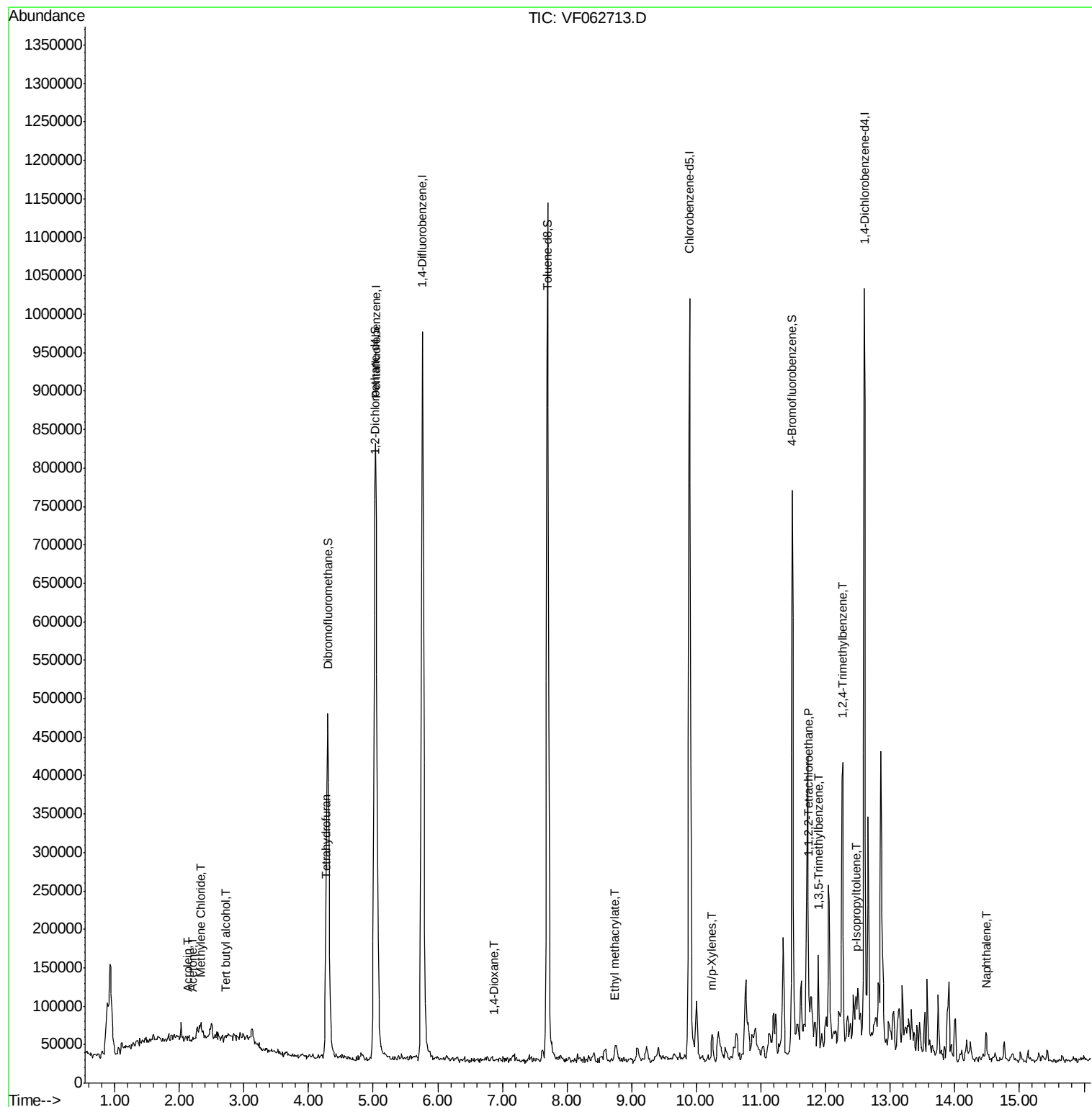
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.70	59	717	2.114	ug/l #	28
13) Acrolein	2.13	56	1575	4.448	ug/l	99
16) Acetone	2.21	43	1690	1.268	ug/l	92
20) Methylene Chloride	2.33	84	18560	2.778	ug/l #	89
29) Tetrahydrofuran	4.26	42	1370	1.189	ug/l #	43
49) 1,4-Dioxane	6.87	88	626	14.192	ug/l #	40
56) Ethyl methacrylate	8.74	69	12083	1.925	ug/l #	67
59) 2-Hexanone	9.62	43	3503	Below Cal		84
68) m/p-Xylenes	10.24	106	12896	1.317	ug/l	80
74) N-amyl acetate	11.34	43	18377	Below Cal	#	1
75) 1,1,2,2-Tetrachloroethane	11.74	83	11531	2.898	ug/l #	68
80) 1,3,5-Trimethylbenzene	11.89	105	52788	3.382	ug/l	89
84) 1,2,4-Trimethylbenzene	12.26	105	132689	8.783	ug/l	87
86) p-Isopropyltoluene	12.48	119	23260	1.299	ug/l	91
95) Naphthalene	14.48	128	20739	2.044	ug/l #	91

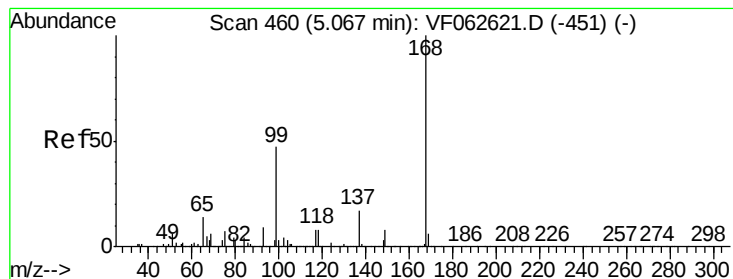
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062713.D

Acq: 22 May 2019 18:42

Instrument :

MSVOA_F

ClientSampleId :

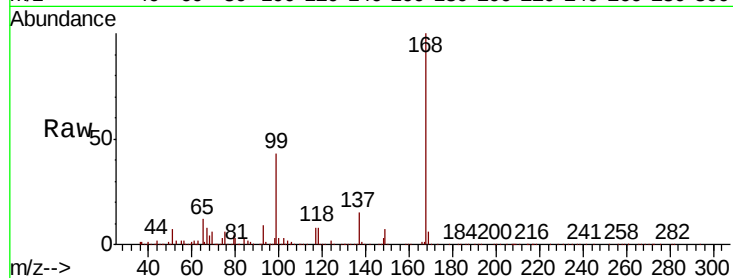
23-C3-20190399

Tot Ion:168 Resp: 727096

Ion Ratio Lower Upper

168 100

99 43.2 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

250000

200000

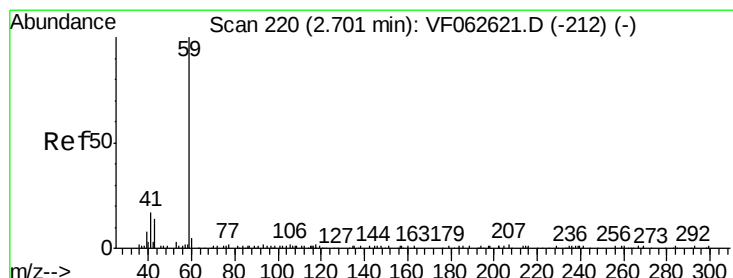
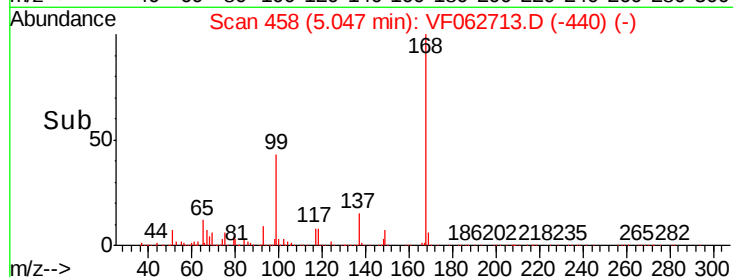
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.114 ug/l

RT: 2.70 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF062713.D

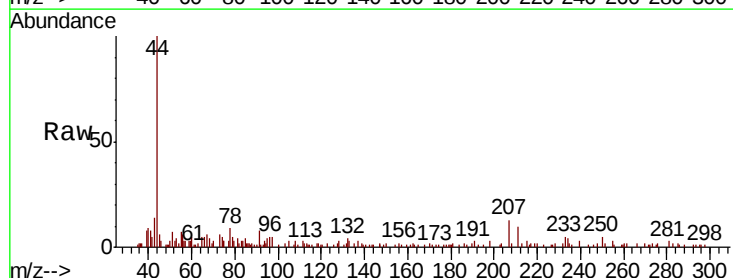
Acq: 22 May 2019 18:42

Tgt Ion: 59 Resp: 717

Ion Ratio Lower Upper

59 100

57 39.3 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

800

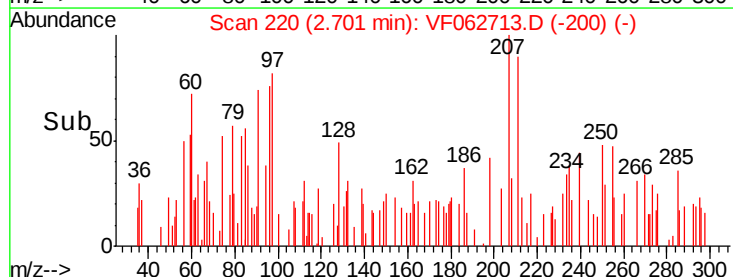
600

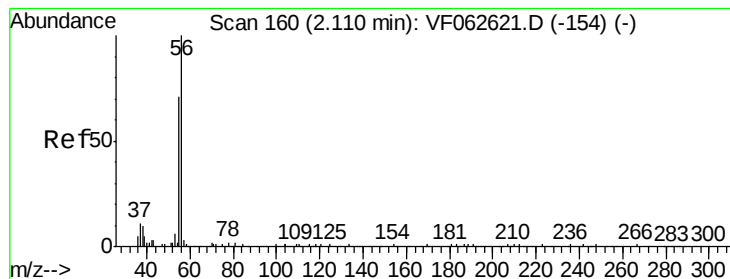
400

200

0

Time-->





#13

Acrolein

Concen: 4.448 ug/l

RT: 2.13 min Scan# 162

Delta R.T. 0.02 min

Lab File: VF062713.D

Acq: 22 May 2019 18:42

Instrument :

MSVOA_F

ClientSampleId :

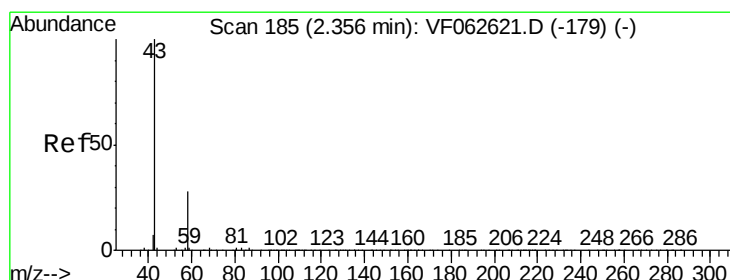
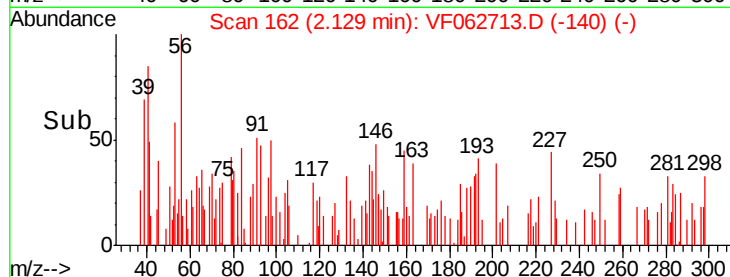
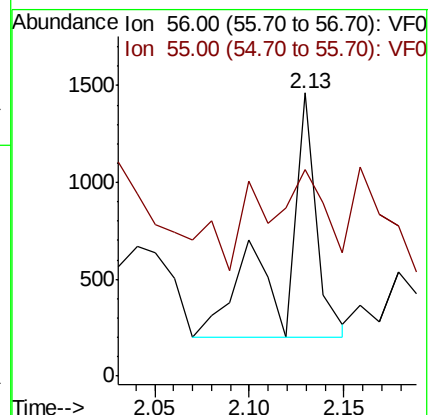
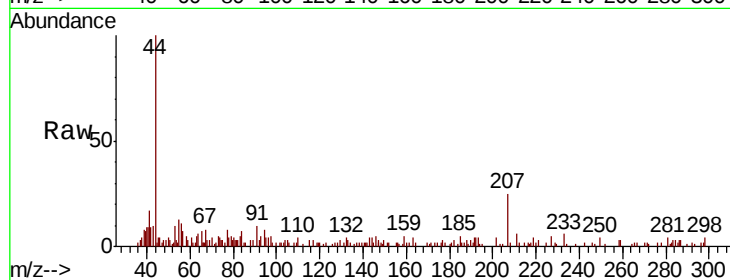
23-C3-20190399

Tot Ion: 56 Resp: 1575

Ion Ratio Lower Upper

56 100

55 73.1 59.4 89.0



#16

Acetone

Concen: 1.268 ug/l

RT: 2.21 min Scan# 170

Delta R.T. -0.15 min

Lab File: VF062713.D

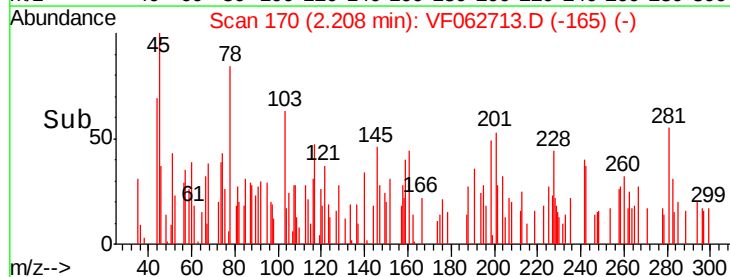
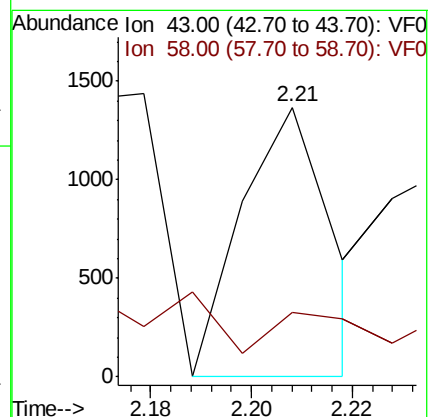
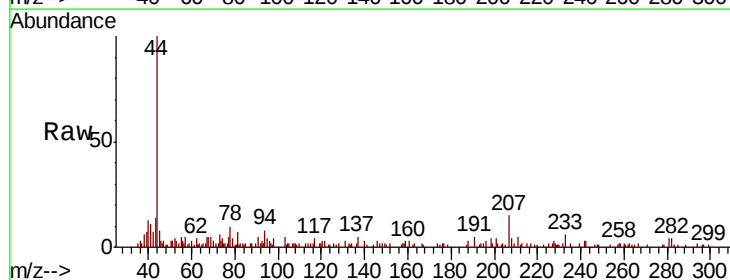
Acq: 22 May 2019 18:42

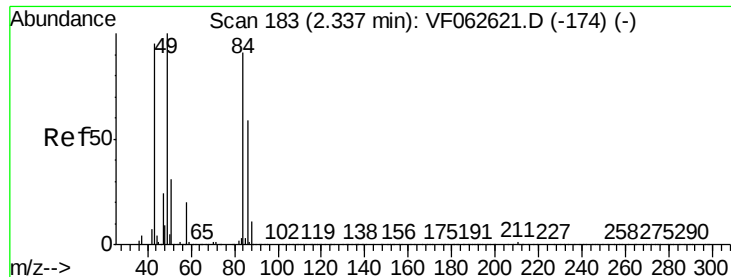
Tgt Ion: 43 Resp: 1690

Ion Ratio Lower Upper

43 100

58 23.8 22.6 33.8

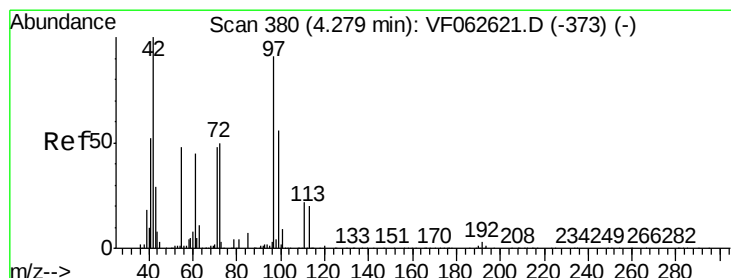
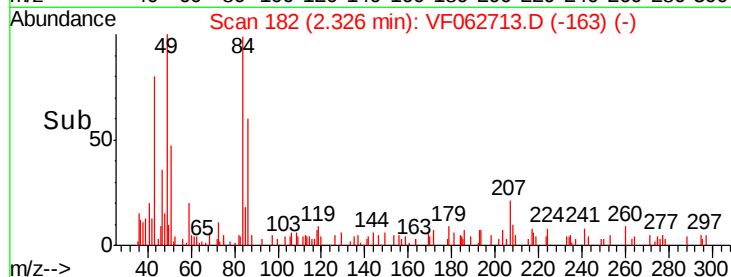
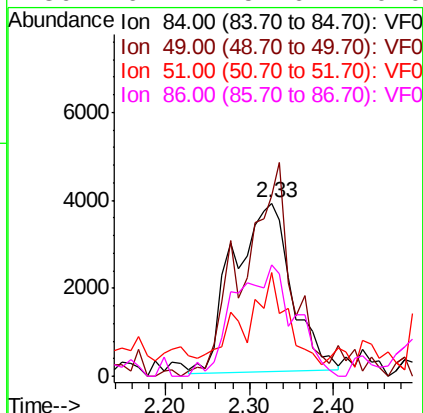
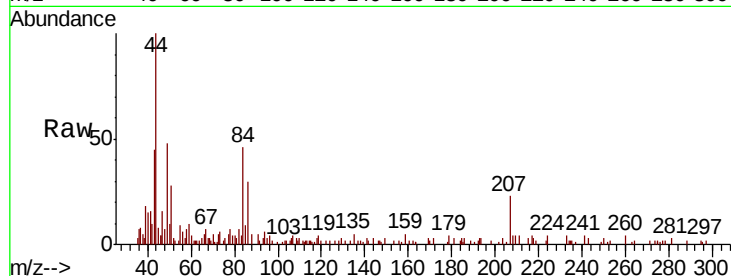




#20
Methvlene Chloride
Concen: 2.778 ug/l
RT: 2.33 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF062713.D
Acq: 22 May 2019 18:42

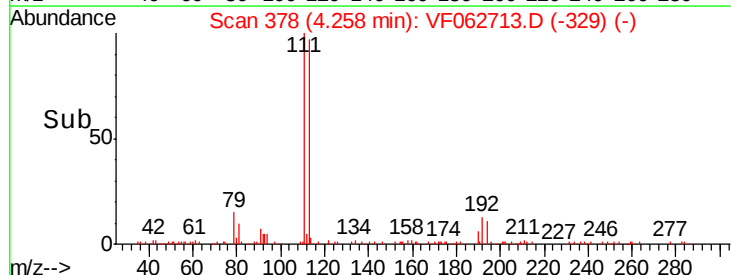
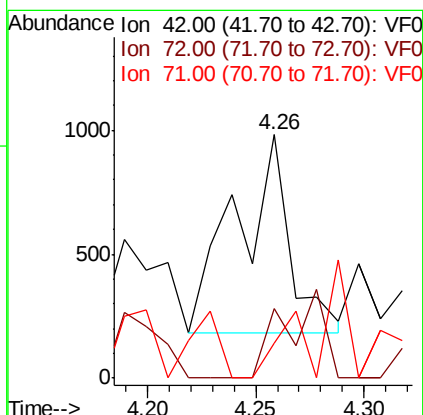
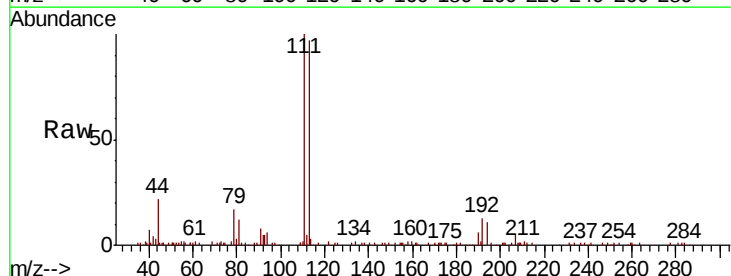
Instrument :
MSVOA_F
ClientSampleId :
23-C3-20190399

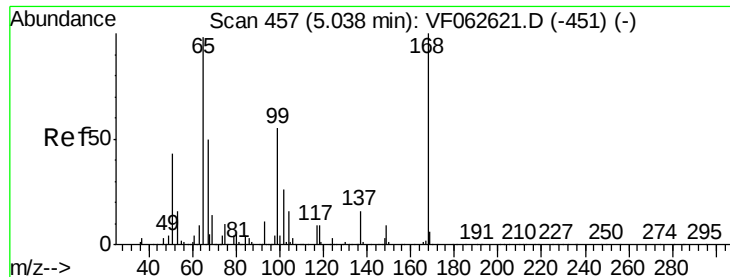
Tot Ion:	84	Resp:	18560
Ion	Ratio	Lower	Upper
84	100		
49	104.4	89.8	134.8
51	60.2	28.4	42.6#
86	64.7	52.6	79.0



#29
Tetrahydrofuran
Concen: 1.189 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.02 min
Lab File: VF062713.D
Acq: 22 May 2019 18:42

Tgt Ion:	42	Resp:	1370
Ion	Ratio	Lower	Upper
42	100		
72	0.0	38.2	57.2#
71	17.7	35.8	53.6#

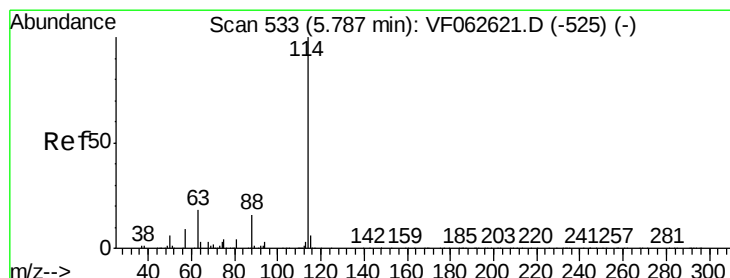
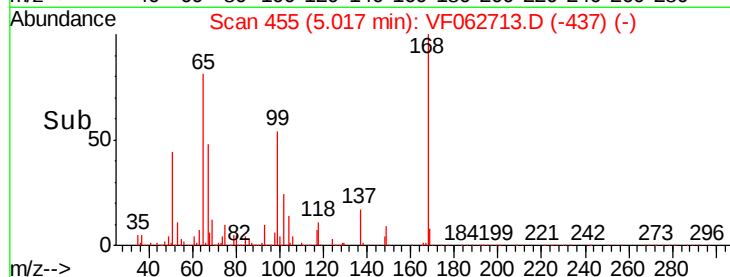
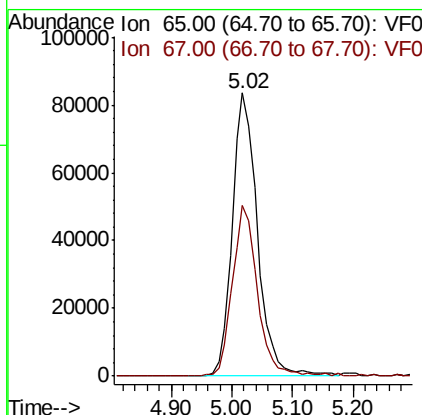
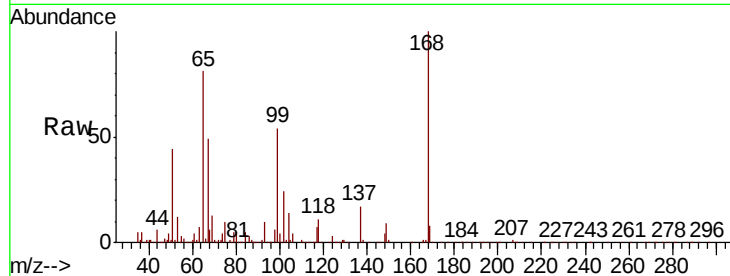




#33
 1,2-Dichloroethane-d4
 Concen: 46.979 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. -0.02 min
 Lab File: VF062713.D
 Acq: 22 May 2019 18:42

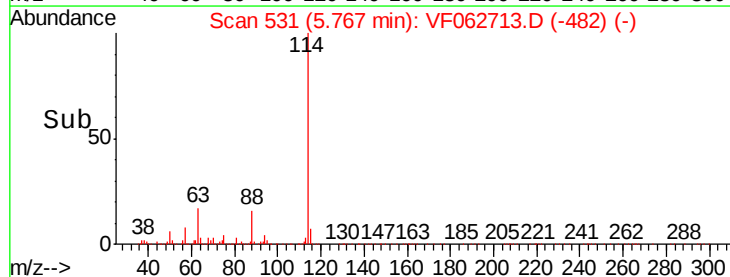
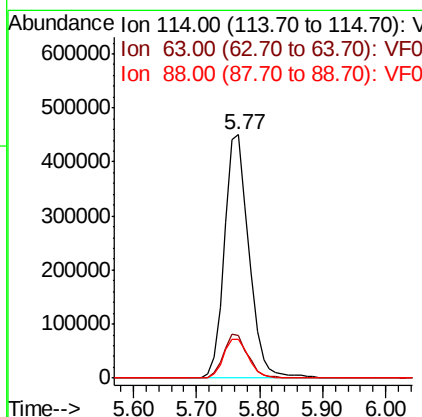
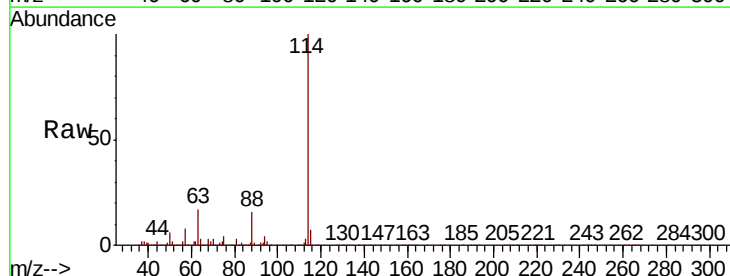
Instrument :
 MSVOA_F
 ClientSampleId :
 23-C3-20190399

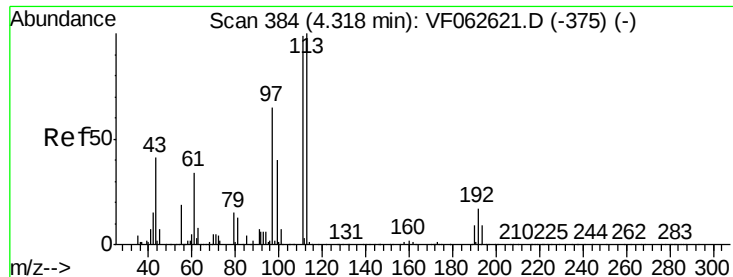
Tot Ion: 65 Resp: 241378
 Ion Ratio Lower Upper
 65 100
 67 60.1 0.0 117.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. -0.02 min
 Lab File: VF062713.D
 Acq: 22 May 2019 18:42

Tgt Ion: 114 Resp: 1215634
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 35.4
 88 16.1 0.0 32.4





#35

Dibromofluoromethane

Concen: 49.484 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.02 min

Lab File: VF062713.D

Acq: 22 May 2019 18:42

Instrument :

MSVOA_F

ClientSampleId :

23-C3-20190399

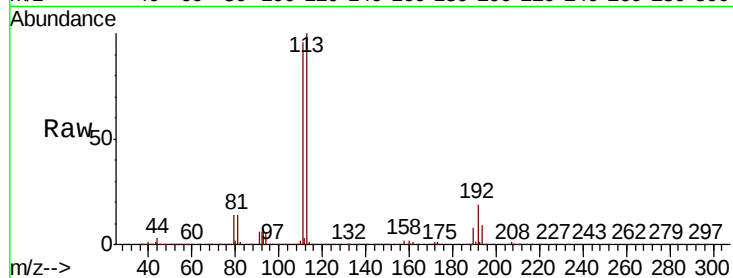
Tot Ion:113 Resp: 460304

Ion Ratio Lower Upper

113 100

111 96.4 79.4 119.2

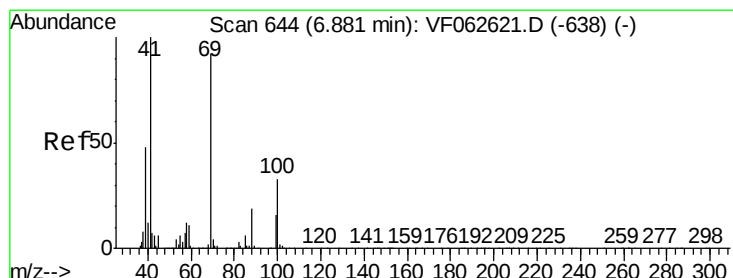
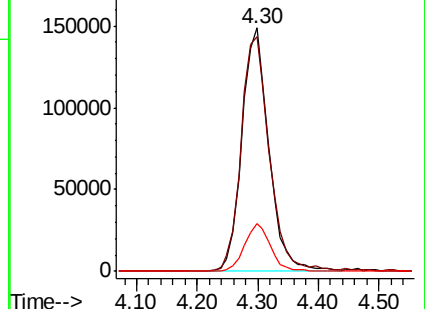
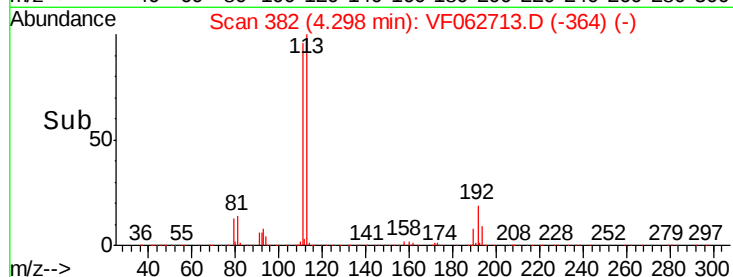
192 19.7 13.4 20.2



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



#49

1,4-Dioxane

Concen: 14.192 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.01 min

Lab File: VF062713.D

Acq: 22 May 2019 18:42

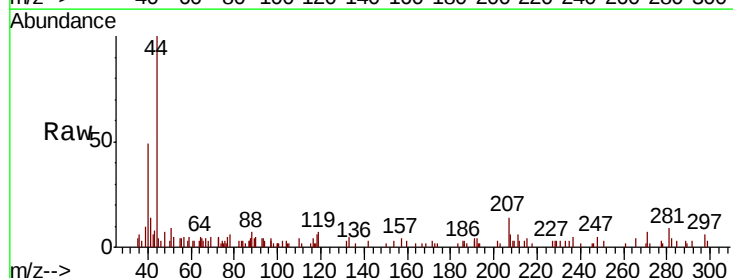
Tgt Ion: 88 Resp: 626

Ion Ratio Lower Upper

88 100

43 112.7 30.0 45.0#

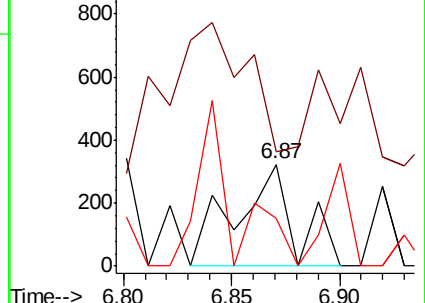
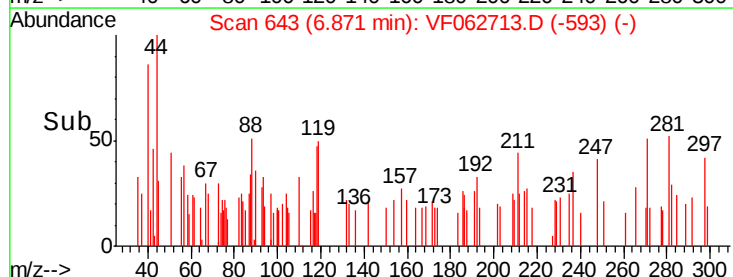
58 46.7 51.1 76.7#

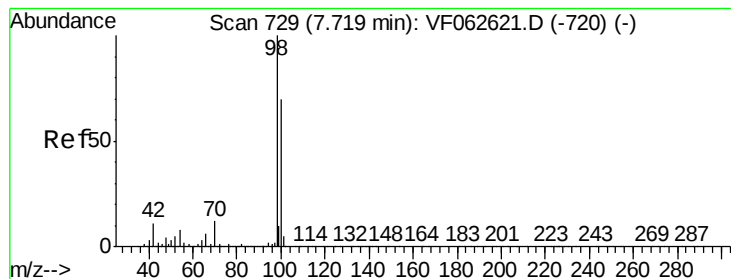


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 43.712 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.02 min

Lab File: VF062713.D

Acq: 22 May 2019 18:42

Instrument :

MSVOA_F

ClientSampleId :

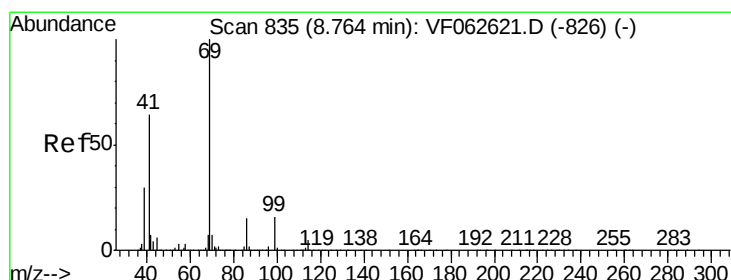
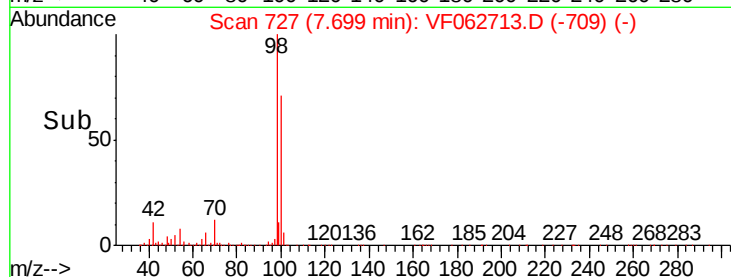
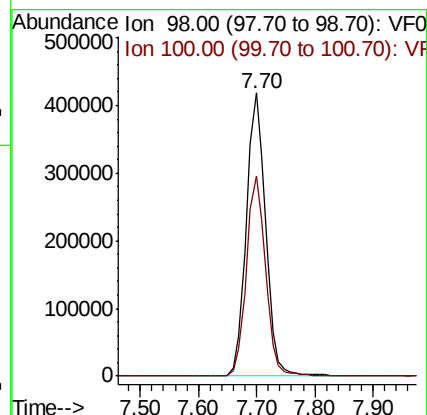
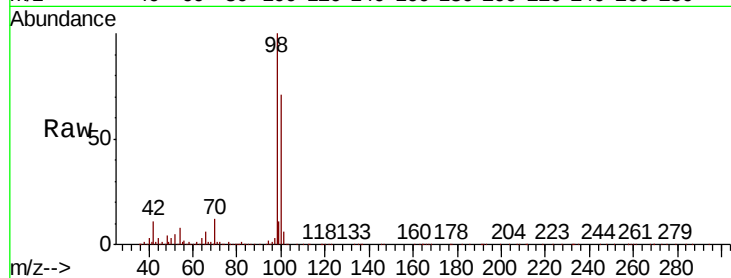
23-C3-20190399

Tot Ion: 98 Resp: 970833

Ion Ratio Lower Upper

98 100

100 70.8 56.2 84.2



#56

Ethyl methacrylate

Concen: 1.925 ug/l

RT: 8.74 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF062713.D

Acq: 22 May 2019 18:42

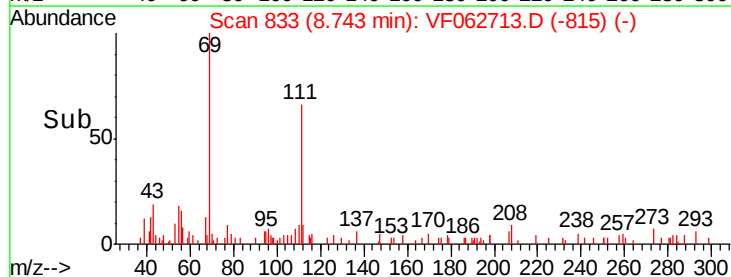
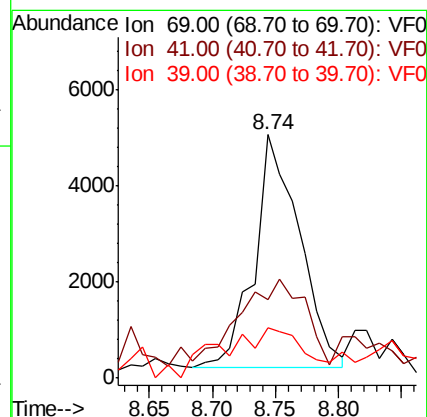
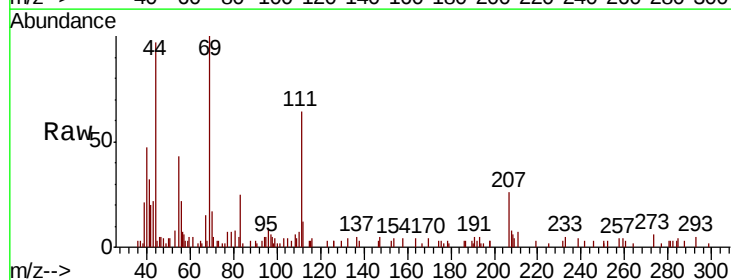
Tgt Ion: 69 Resp: 12083

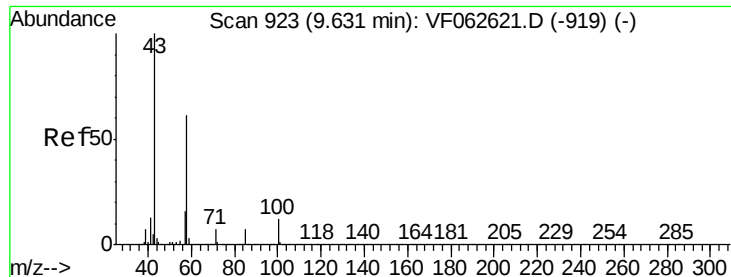
Ion Ratio Lower Upper

69 100

41 32.2 51.4 77.2#

39 20.8 23.6 35.4#

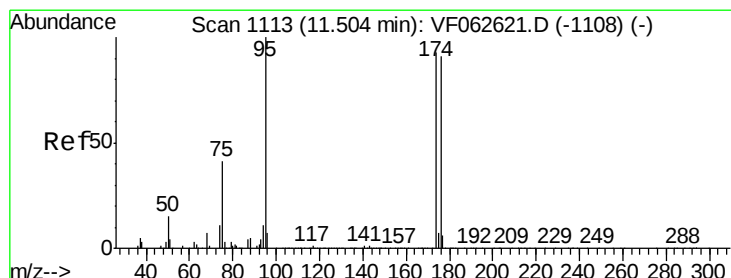
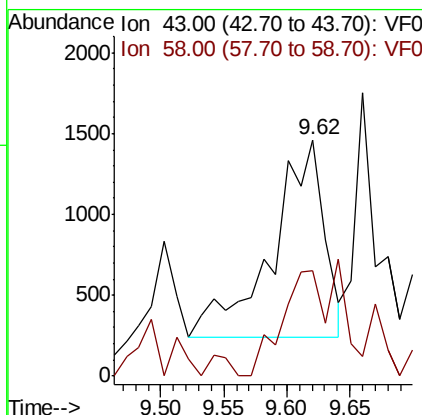
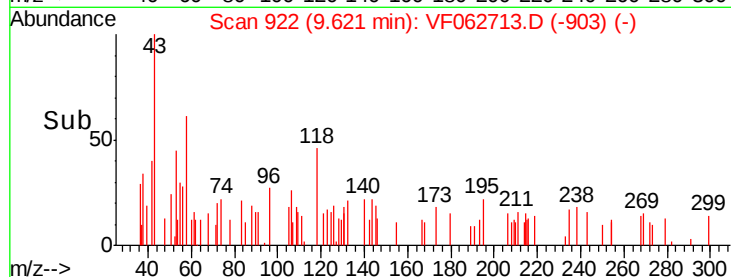
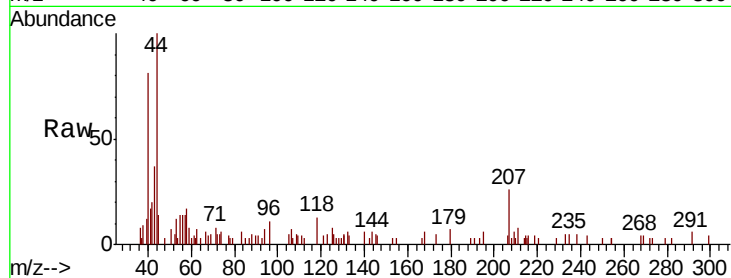




#59
2-Hexanone
Concen: Below Cal
RT: 9.62 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF062713.D
Acq: 22 May 2019 18:42

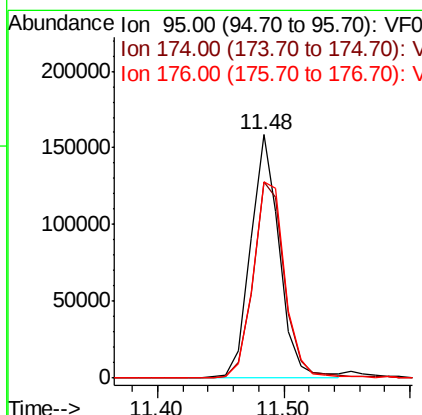
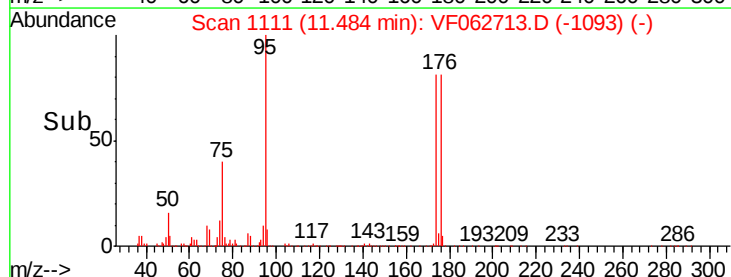
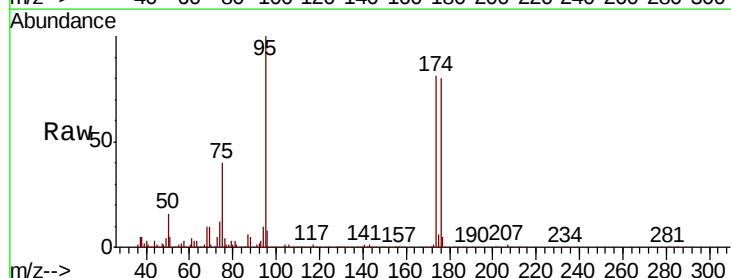
Instrument :
MSVOA_F
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23-C3-20190399

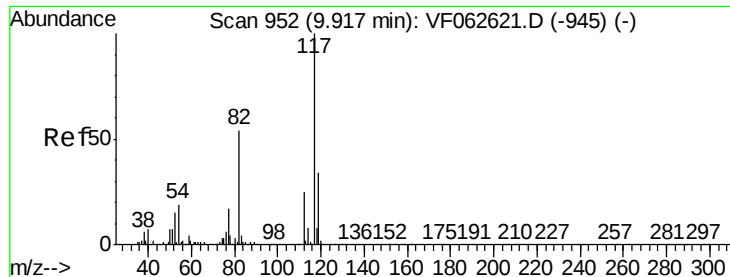
Tot Ion: 43 Resp: 3503
Ion Ratio Lower Upper
43 100
58 44.5 28.1 84.4



#62
4-Bromofluorobenzene
Concen: 29.819 ug/l
RT: 11.48 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF062713.D
Acq: 22 May 2019 18:42

Tgt Ion: 95 Resp: 251177
Ion Ratio Lower Upper
95 100
174 80.8 0.0 185.6
176 80.5 0.0 182.4

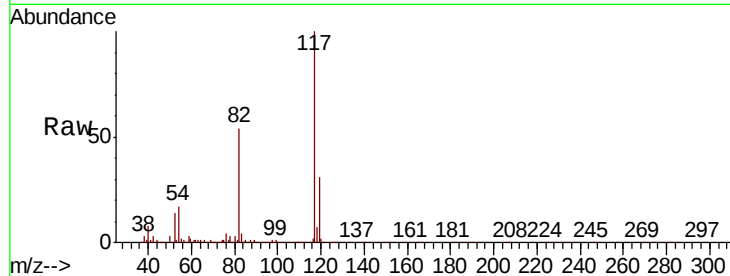




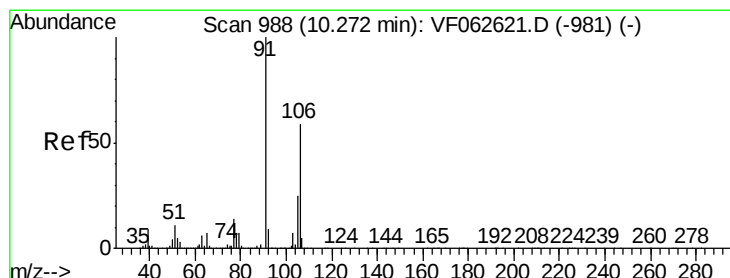
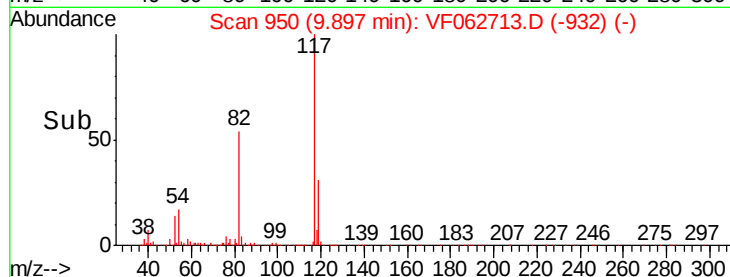
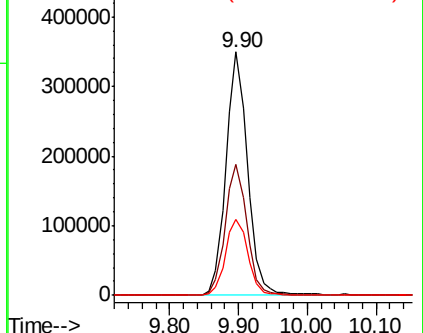
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.02 min
Lab File: VF062713.D
Acq: 22 May 2019 18:42

Instrument :
MSVOA_F
ClientSampleId :
23-C3-20190399

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.7	43.3	64.9
119	31.2	27.4	41.0

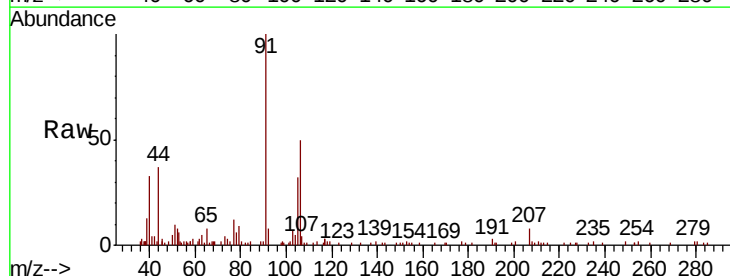


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

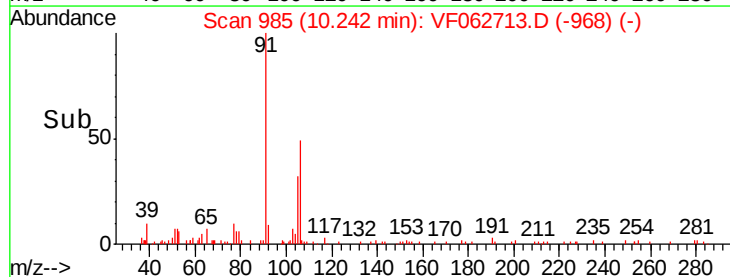
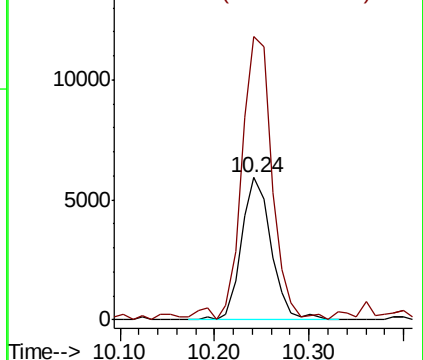


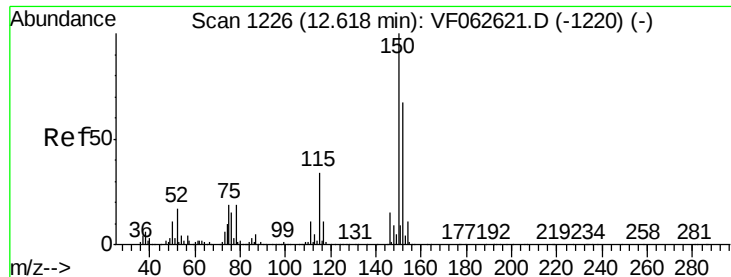
#68
m/p-Xylenes
Concen: 1.317 ug/l
RT: 10.24 min Scan# 985
Delta R.T. -0.03 min
Lab File: VF062713.D
Acq: 22 May 2019 18:42

Tgt Ion	Ratio	Lower	Upper
106	100		
91	198.6	136.9	205.3



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.60 min Scan# 1224

Delta R.T. -0.02 min

Lab File: VF062713.D

Acq: 22 May 2019 18:42

Instrument :

MSVOA_F

ClientSampleId :

23-C3-20190399

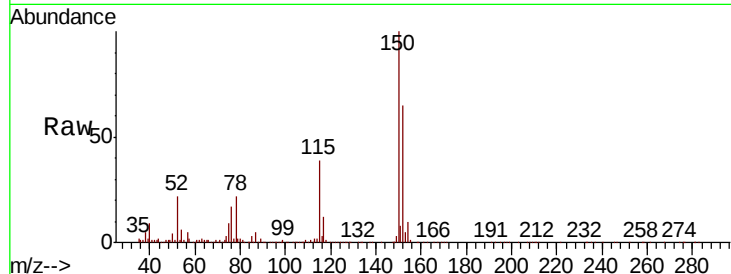
Tot Ion:152 Resp: 271619

Ion Ratio Lower Upper

152 100

115 60.3 25.2 75.6

150 152.9 0.0 306.2

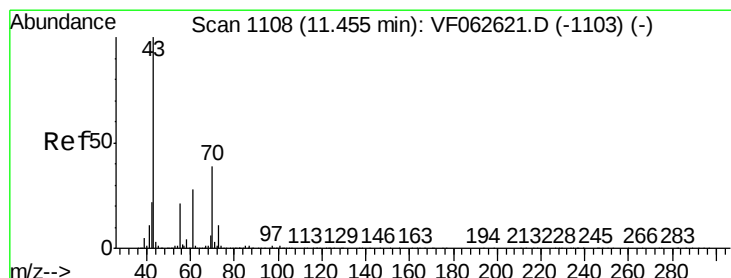
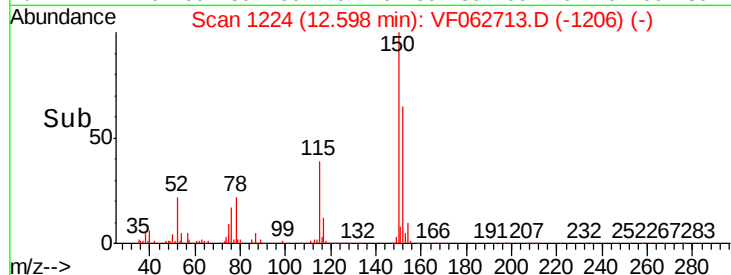
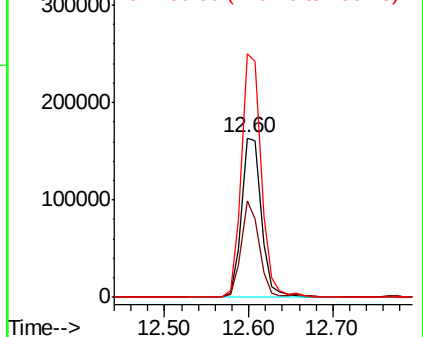


Abundance

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



#74

N-amil acetate

Concen: Below Cal

RT: 11.34 min Scan# 1096

Delta R.T. -0.12 min

Lab File: VF062713.D

Acq: 22 May 2019 18:42

Tgt Ion: 43 Resp: 18377

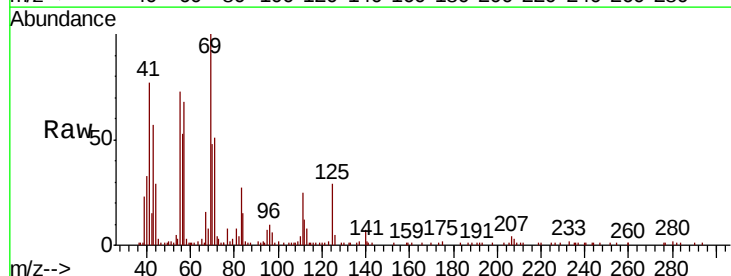
Ion Ratio Lower Upper

43 100

70 83.8 30.9 46.3#

55 126.5 17.0 25.4#

61 3.3 22.6 34.0#



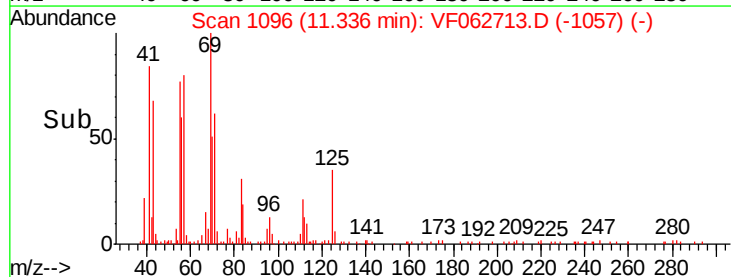
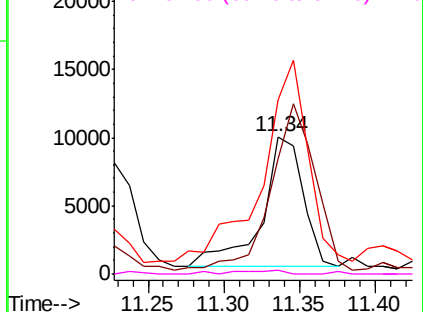
Abundance

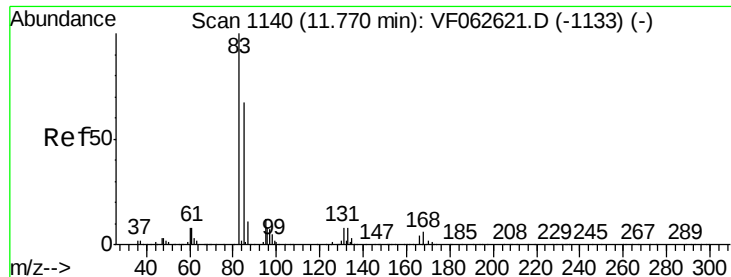
Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 2.898 ug/l

RT: 11.74 min Scan# 1137

Delta R.T. -0.03 min

Lab File: VF062713.D

Acq: 22 May 2019 18:42

Instrument :

MSVOA_F

ClientSampleId :

23-C3-20190399

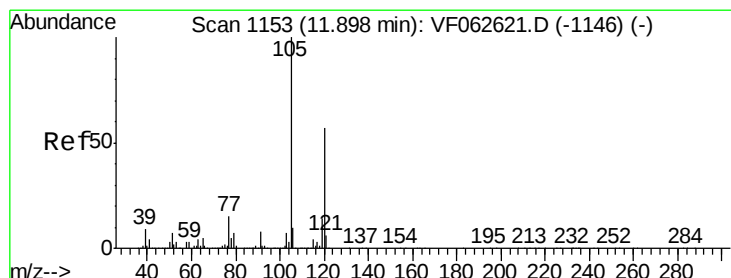
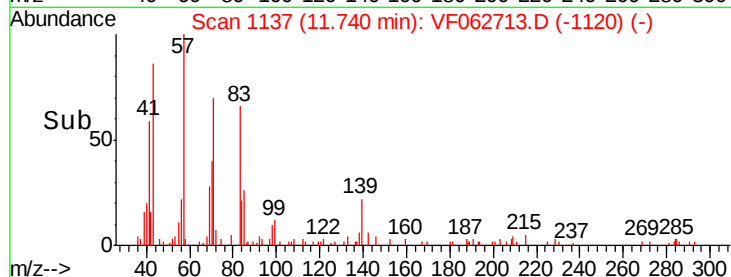
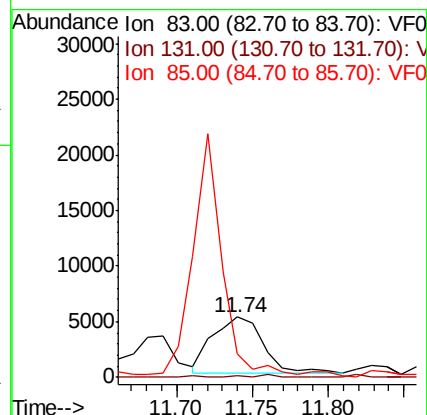
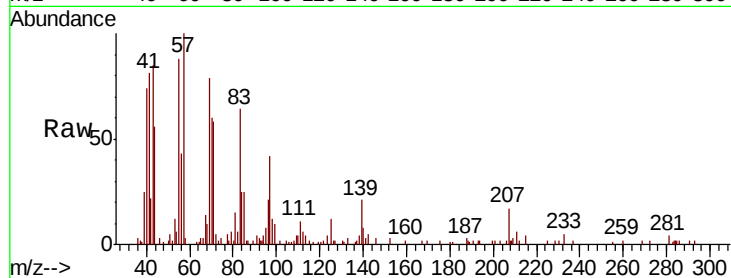
Tot Ion: 83 Resp: 11531

Ion Ratio Lower Upper

83 100

131 2.1 4.0 12.0#

85 39.8 33.5 100.5



#80

1,3,5-Trimethylbenzene

Concen: 3.382 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.01 min

Lab File: VF062713.D

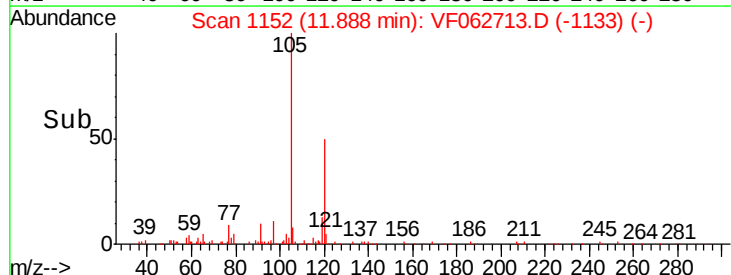
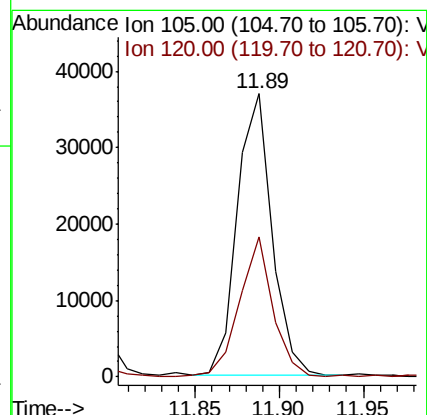
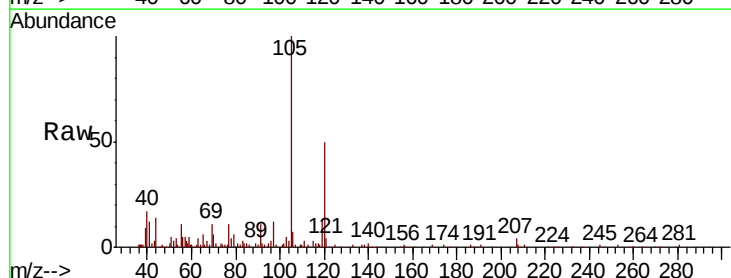
Acq: 22 May 2019 18:42

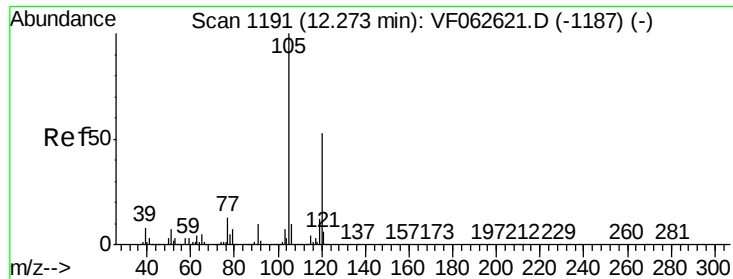
Tgt Ion:105 Resp: 52788

Ion Ratio Lower Upper

105 100

120 49.7 28.7 86.3

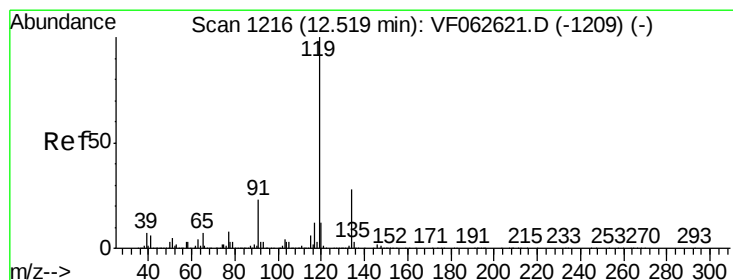
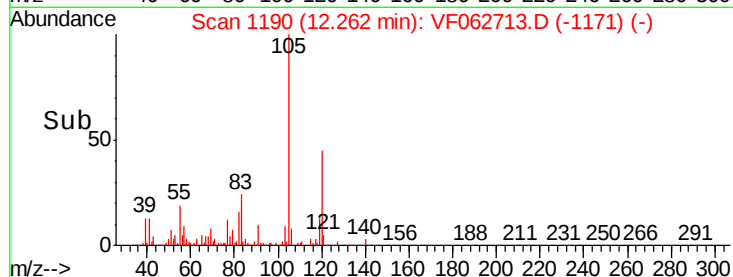
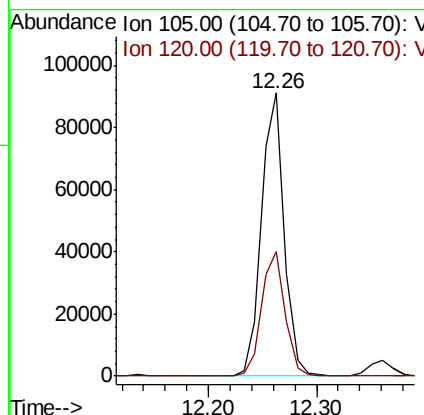
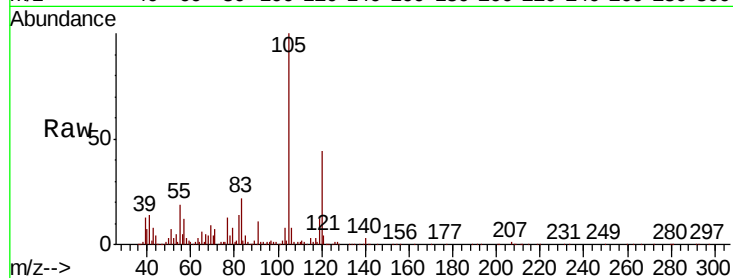




#84
 1,2,4-Trimethylbenzene
 Concen: 8.783 ug/l
 RT: 12.26 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: VF062713.D
 Acq: 22 May 2019 18:42

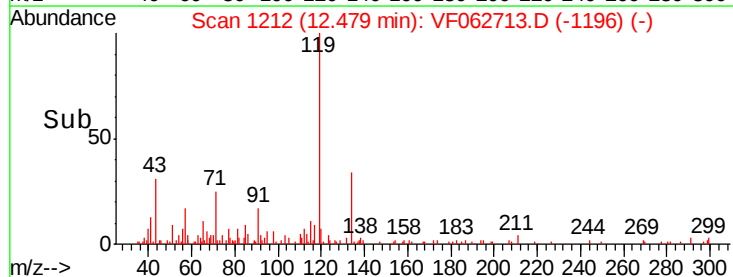
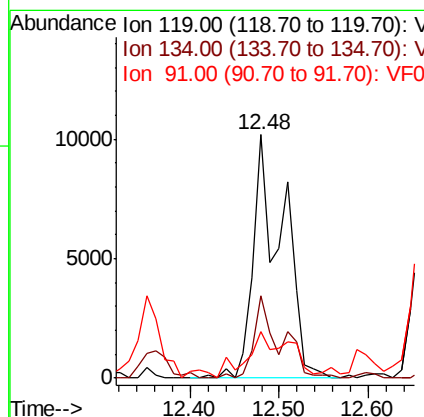
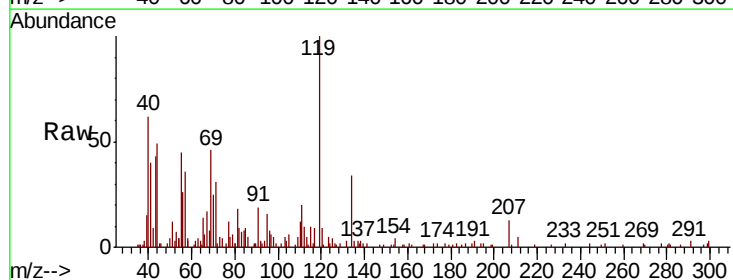
Instrument :
 MSVOA_F
 ClientSampleId :
 23-C3-20190399

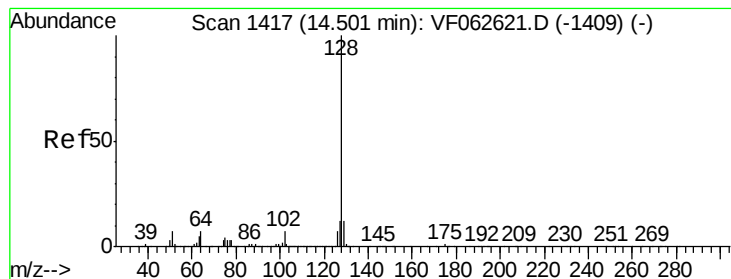
Tot Ion:105 Resp: 132689
 Ion Ratio Lower Upper
 105 100
 120 43.8 26.7 80.1



#86
 p-Isopropyltoluene
 Concen: 1.299 ug/l
 RT: 12.48 min Scan# 1212
 Delta R.T. -0.04 min
 Lab File: VF062713.D
 Acq: 22 May 2019 18:42

Tgt Ion:119 Resp: 23260
 Ion Ratio Lower Upper
 119 100
 134 33.7 14.1 42.3
 91 19.2 11.4 34.2





#95

Naphthalene

Concen: 2.044 ug/l

RT: 14.48 min Scan# 1415

Delta R.T. -0.02 min

Lab File: VF062713.D

Acq: 22 May 2019 18:42

Instrument :

MSVOA_F

ClientSampleId :

23-C3-20190399

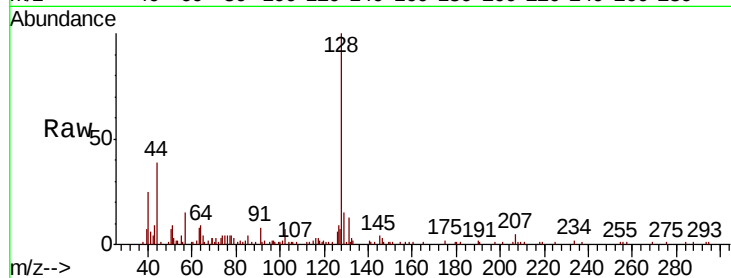
Tot Ion:128 Resp: 20739

Ion Ratio Lower Upper

128 100

127 16.1 9.7 14.5#

129 14.9 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

