

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022719\
 Data File : VF061772.D
 Acq On : 27 Feb 2019 18:01
 Operator : VA/AP
 Sample : K1353-03
 Misc : 5.55u/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 28 01:00:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	287251	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	422254	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	309510	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	101715	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	93083	44.19	ug/l	-0.03
Spiked Amount			Recovery	=	88.38%	
35) Dibromofluoromethane	4.10	113	136748	43.61	ug/l	-0.02
Spiked Amount			Recovery	=	87.22%	
50) Toluene-d8	7.54	98	312148	34.63	ug/l	-0.02
Spiked Amount			Recovery	=	69.26%	
62) 4-Bromofluorobenzene	11.41	95	102347	28.06	ug/l	-0.01
Spiked Amount			Recovery	=	56.12%	

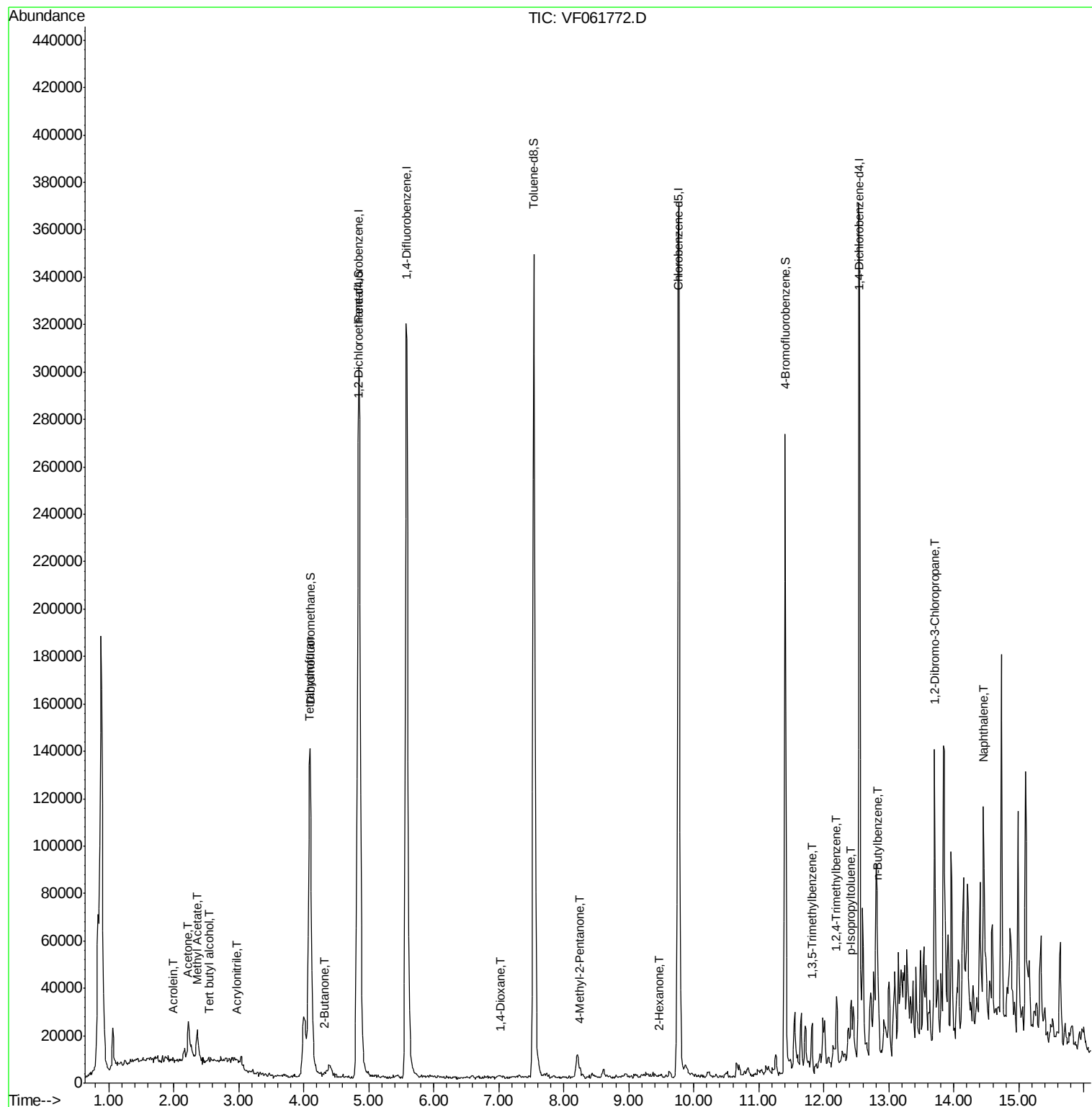
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.54	59	282	2.313	ug/l #	1
13) Acrolein	1.99	56	951	6.207	ug/l #	71
15) Acrylonitrile	2.96	53	474	1.096	ug/l #	18
16) Acetone	2.23	43	18706	41.389	ug/l	96
18) Methyl Acetate	2.36	43	9538	9.368	ug/l #	59
20) Methylene Chloride	2.23	84	5234	Below Cal		97
25) 2-Butanone	4.31	43	2373	2.404	ug/l #	55
29) Tetrahydrofuran	4.08	42	1505	3.354	ug/l #	61
49) 1,4-Dioxane	7.04	88	60	4.612	ug/l #	20
51) 4-Methyl-2-Pentanone	8.25	43	2499	1.521	ug/l #	74
59) 2-Hexanone	9.47	43	1154	1.002	ug/l #	23
80) 1,3,5-Trimethylbenzene	11.82	105	9558	1.651	ug/l	91
84) 1,2,4-Trimethylbenzene	12.19	105	6791	1.181	ug/l	80
86) p-Isopropyltoluene	12.42	119	12829	1.844	ug/l	96
89) n-Butylbenzene	12.84	91	7246	1.103	ug/l #	74
92) 1,2-Dibromo-3-Chloropropan	13.71	75	393	1.911	ug/l #	1
95) Naphthalene	14.45	128	6064	1.458	ug/l #	19

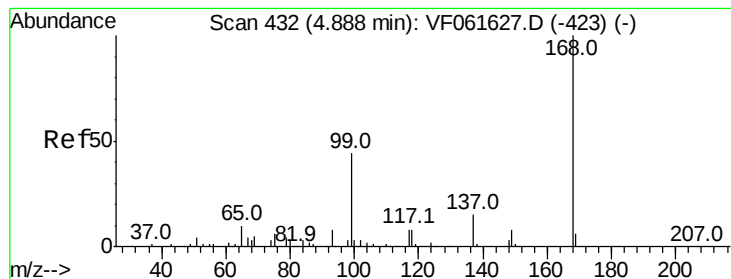
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

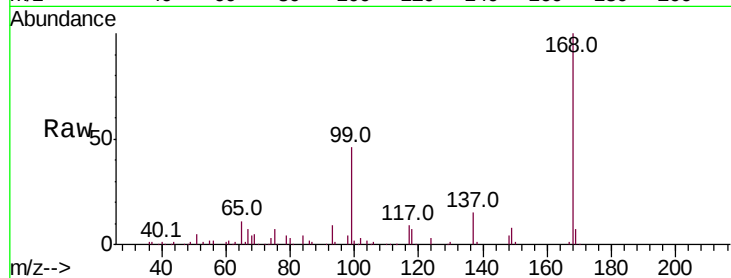
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 287251

Ion Ratio Lower Upper

168 100

99 45.7 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

100000

80000

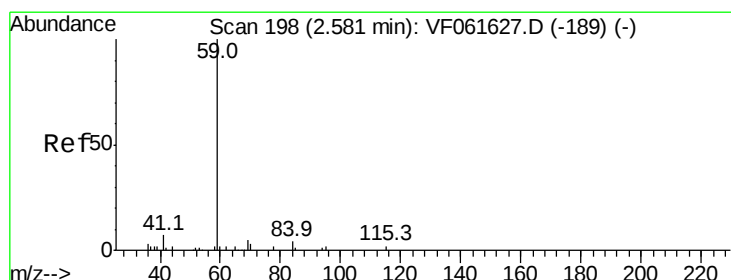
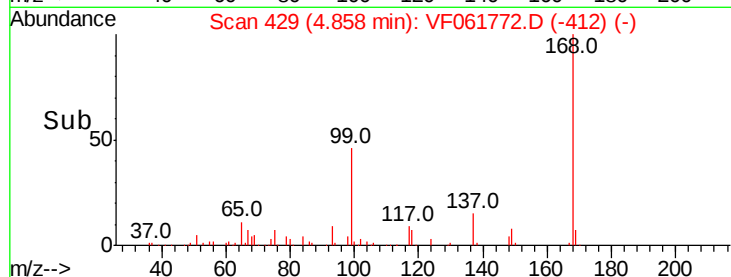
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.313 ug/l

RT: 2.54 min Scan# 194

Delta R.T. -0.04 min

Lab File: VF061772.D

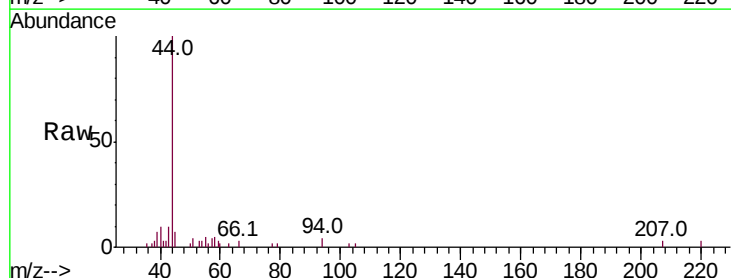
Acq: 27 Feb 2019 18:01

Tgt Ion: 59 Resp: 282

Ion Ratio Lower Upper

59 100

57 147.9 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

500

400

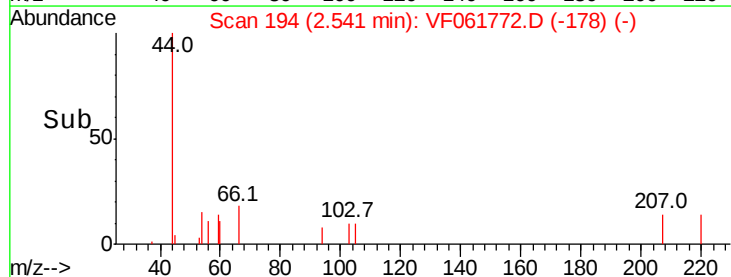
300

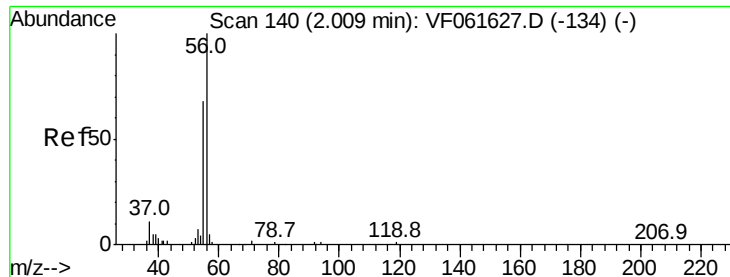
200

100

0

Time-->

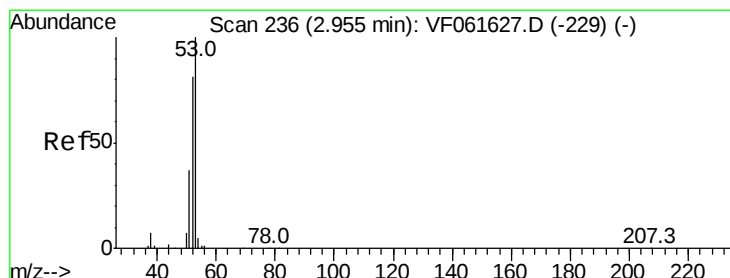
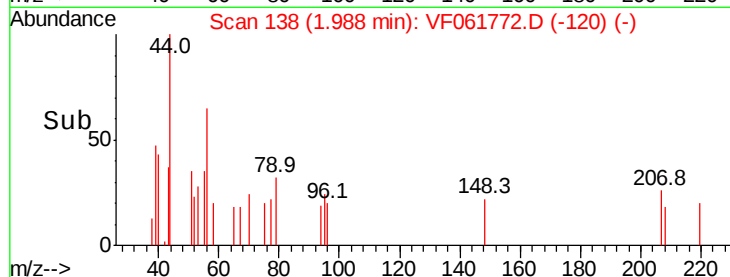
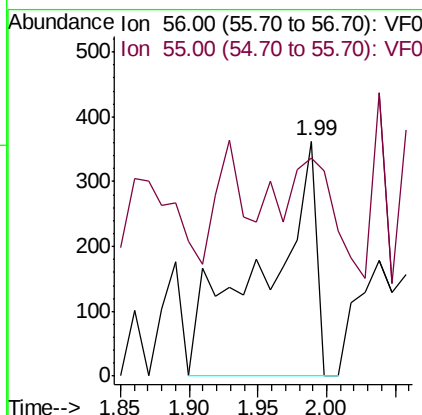
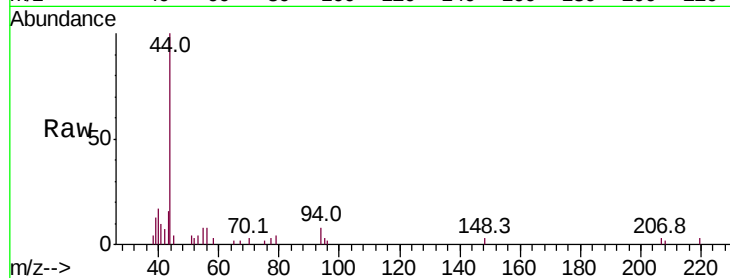




#13
Acrolein
Concen: 6.207 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.02 min
Lab File: VF061772.D
Acq: 27 Feb 2019 18:01

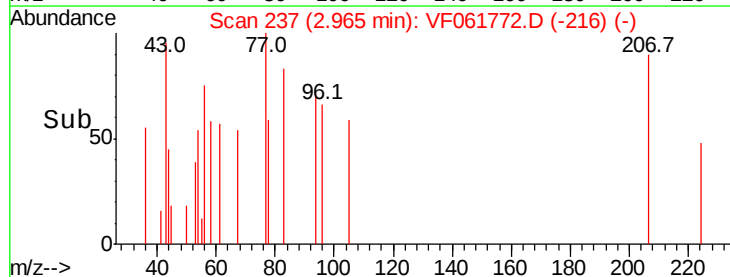
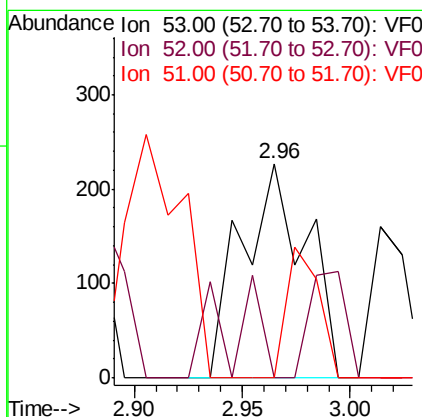
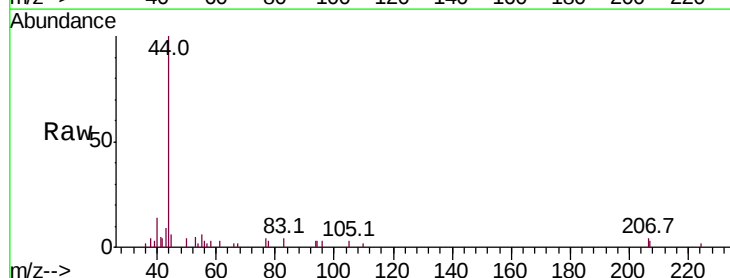
Instrument :
MSVOA_F
ClientSampled :

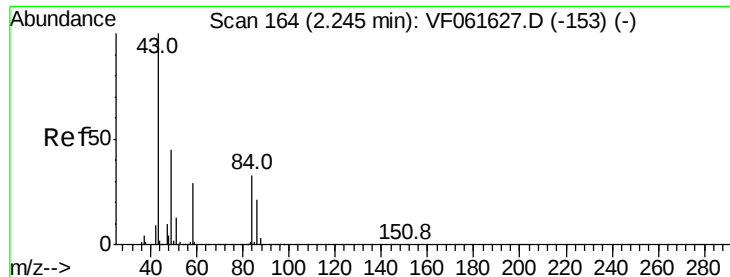
Tot Ion: 56 Resp: 951
Ion Ratio Lower Upper
56 100
55 92.6 55.0 82.6#



#15
Acrylonitrile
Concen: 1.096 ug/l
RT: 2.96 min Scan# 237
Delta R.T. 0.01 min
Lab File: VF061772.D
Acq: 27 Feb 2019 18:01

Tgt Ion: 53 Resp: 474
Ion Ratio Lower Upper
53 100
52 0.0 64.6 97.0#
51 0.0 29.8 44.8#





#16

Acetone

Concen: 41.389 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

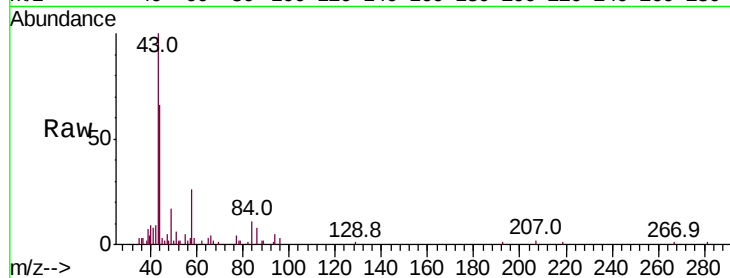
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 18706

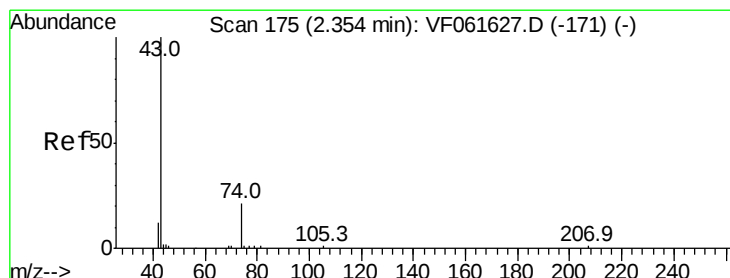
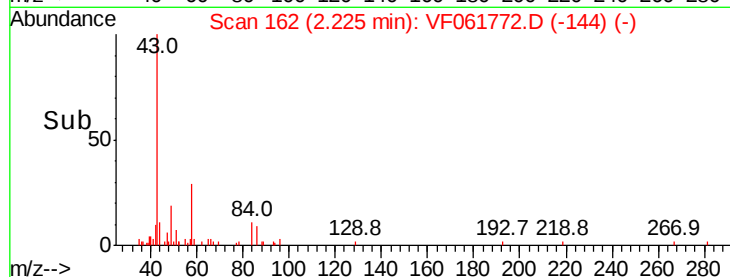
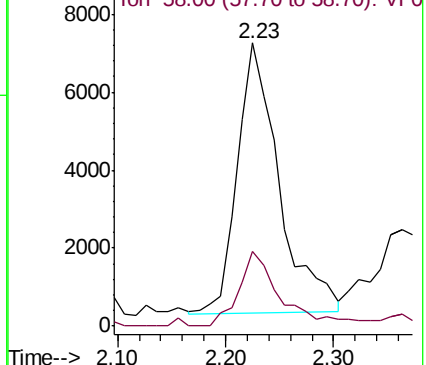
Ion Ratio Lower Upper

43 100

58 26.4 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 9.368 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.01 min

Lab File: VF061772.D

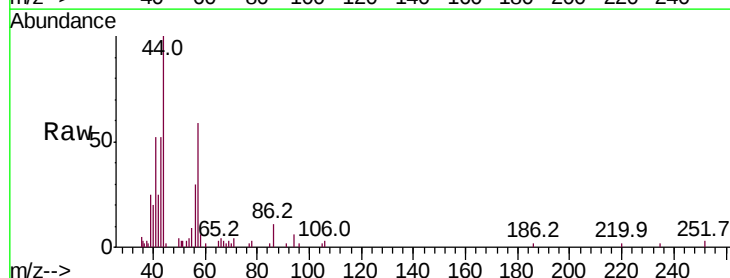
Acq: 27 Feb 2019 18:01

Tgt Ion: 43 Resp: 9538

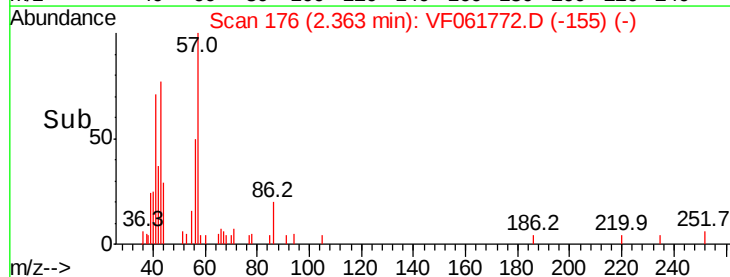
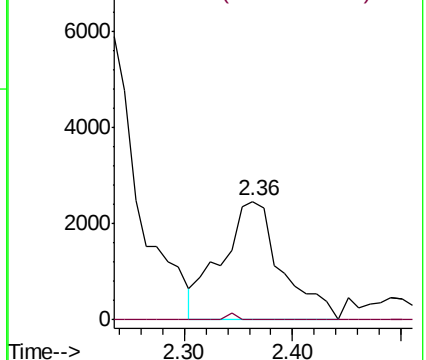
Ion Ratio Lower Upper

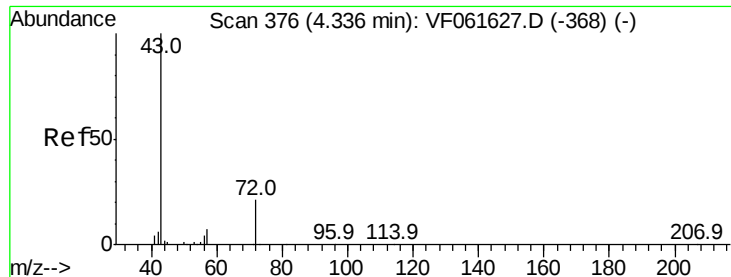
43 100

74 0.0 14.6 21.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 74.00 (73.70 to 74.70): VF0





#25

2-Butanone

Concen: 2.404 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.03 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

Instrument :

MSVOA_F

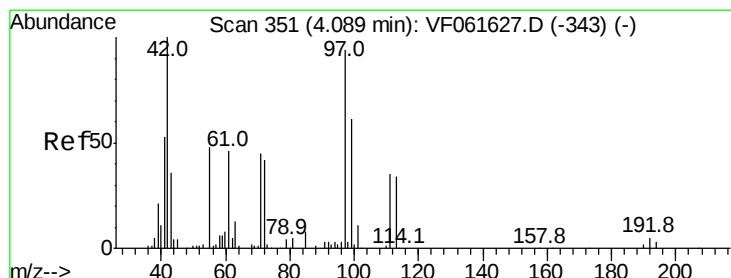
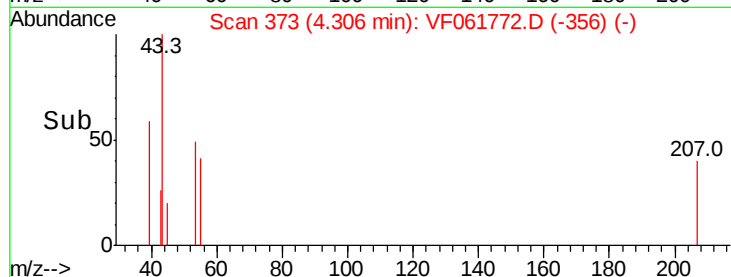
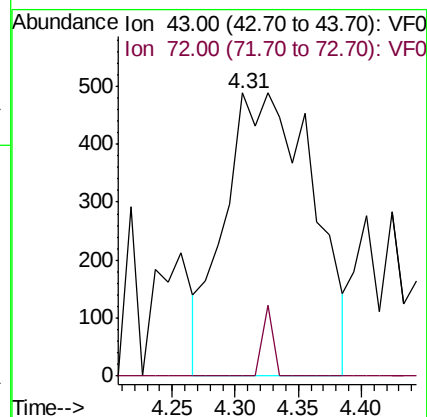
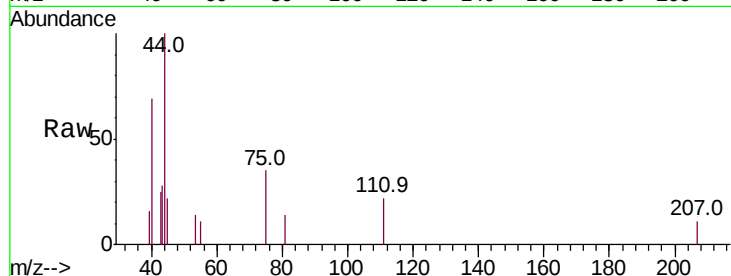
ClientSampleId :

Tot Ion: 43 Resp: 2373

Ion Ratio Lower Upper

43 100

72 0.0 17.1 25.7#



#29

Tetrahydrofuran

Concen: 3.354 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.01 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

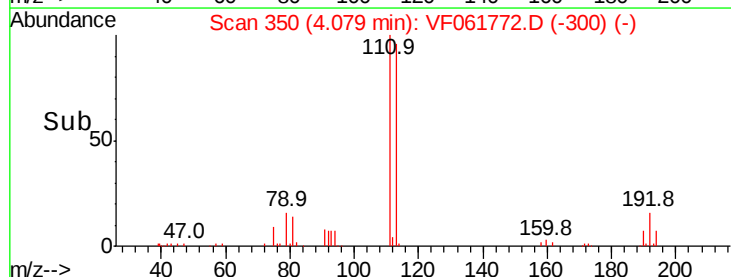
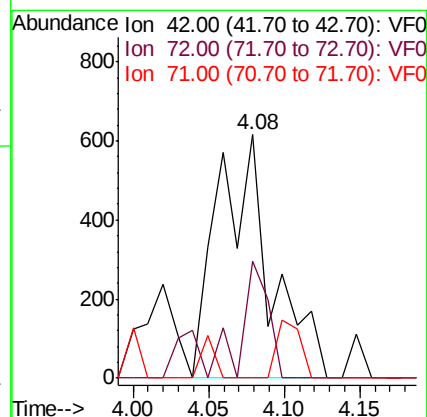
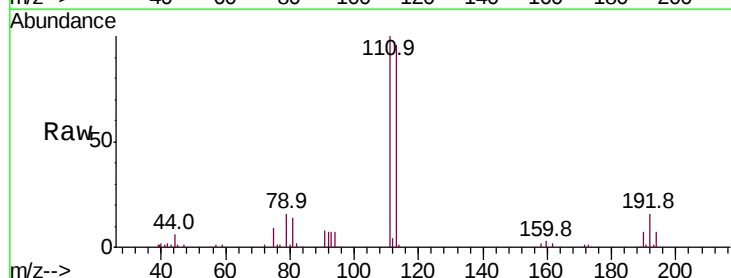
Tgt Ion: 42 Resp: 1505

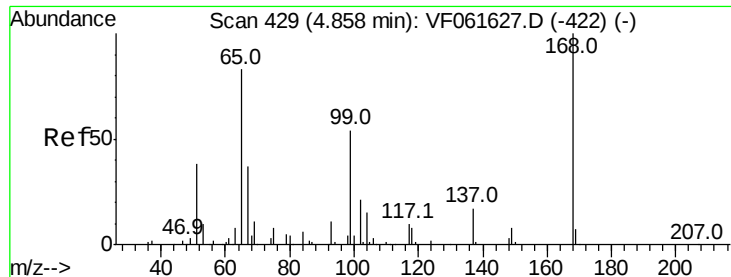
Ion Ratio Lower Upper

42 100

72 24.5 35.2 52.8#

71 10.7 32.9 49.3#

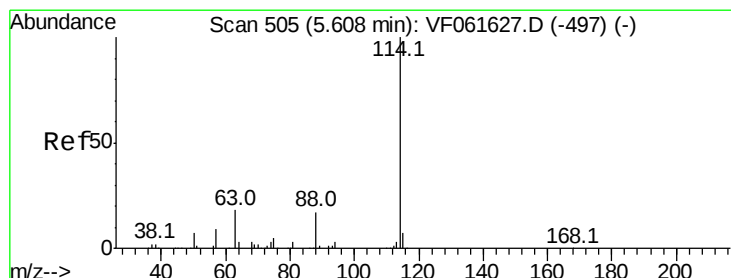
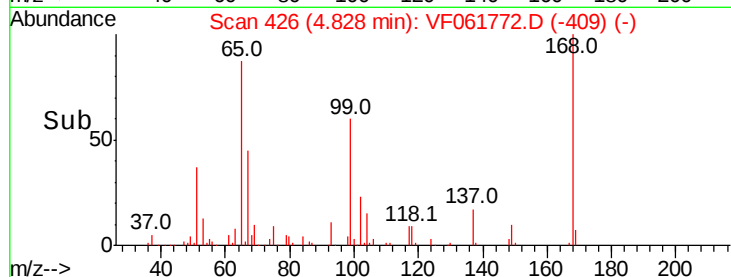
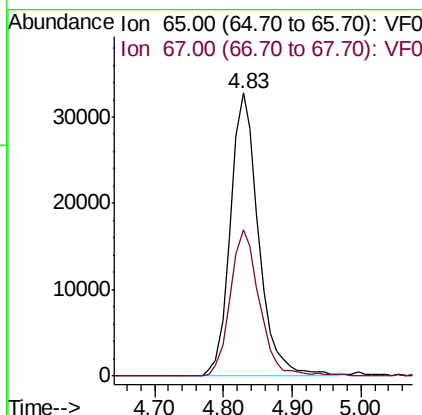
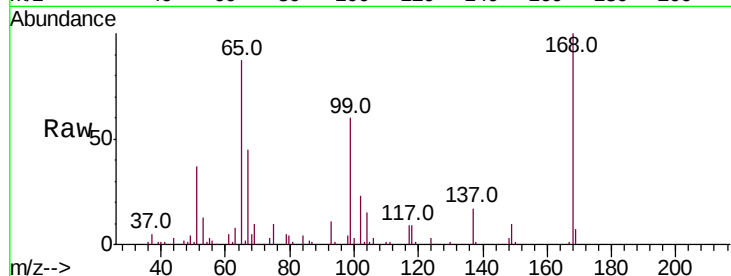




#33
 1,2-Dichloroethane-d4
 Concen: 44.189 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.03 min
 Lab File: VF061772.D
 Acq: 27 Feb 2019 18:01

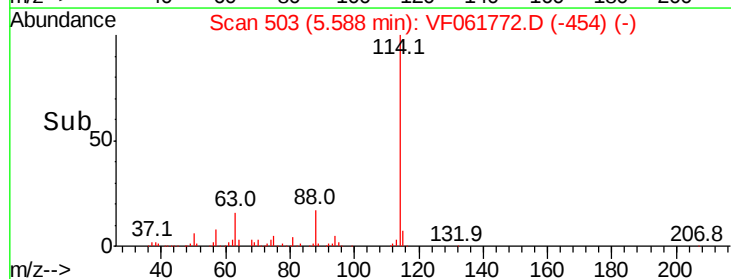
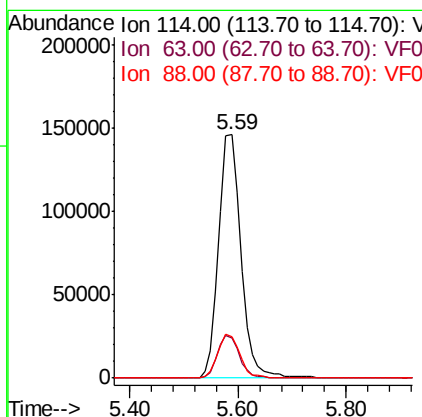
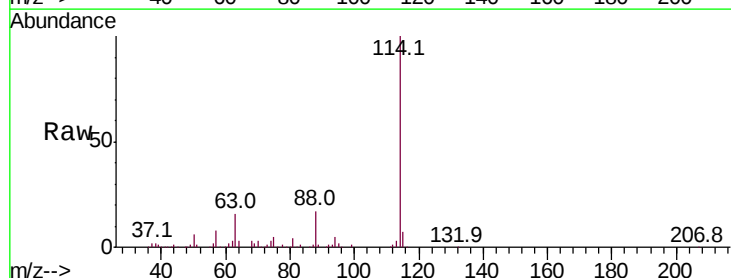
Instrument :
 MSVOA_F
 ClientSampled :

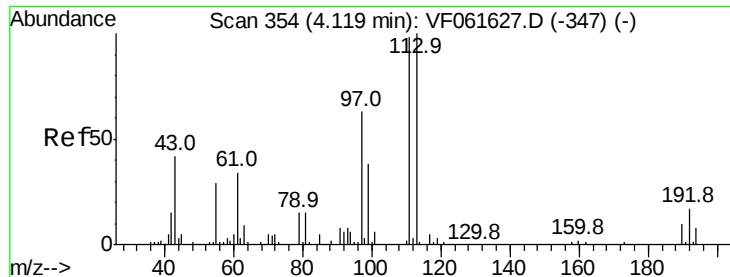
Tot Ion: 65 Resp: 93083
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.02 min
 Lab File: VF061772.D
 Acq: 27 Feb 2019 18:01

Tgt Ion: 114 Resp: 422254
 Ion Ratio Lower Upper
 114 100
 63 16.2 0.0 36.6
 88 17.0 0.0 34.4





#35

Dibromofluoromethane

Concen: 43.610 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

Instrument :
MSVOA_F
ClientSampled :

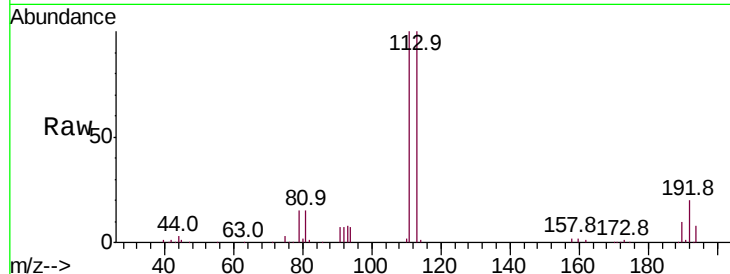
Tot Ion:113 Resp: 136748

Ion Ratio Lower Upper

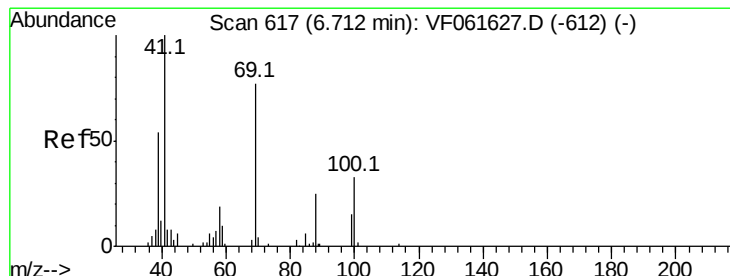
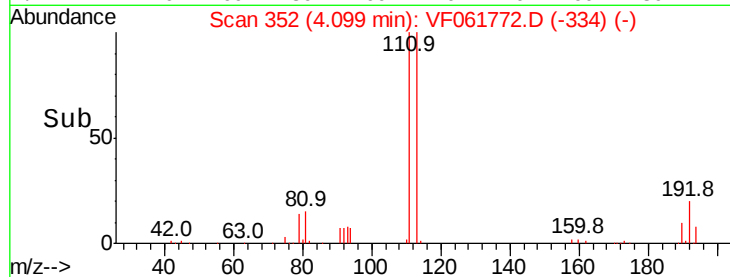
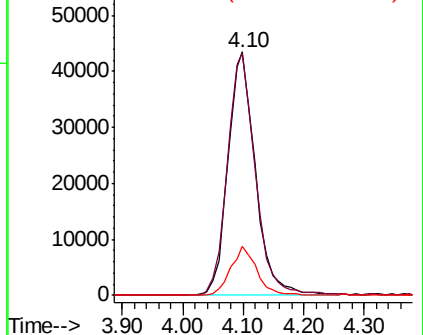
113 100

111 99.5 78.8 118.2

192 20.2 13.4 20.0#



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: 4.612 ug/l

RT: 7.04 min Scan# 650

Delta R.T. 0.32 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

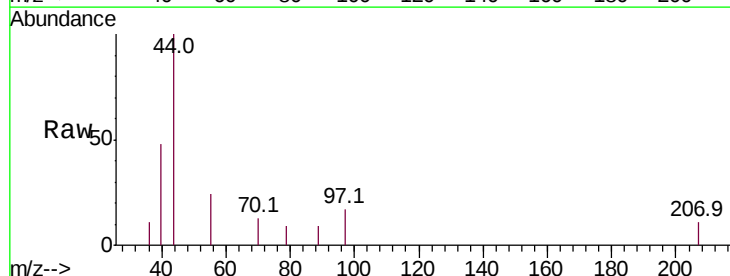
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

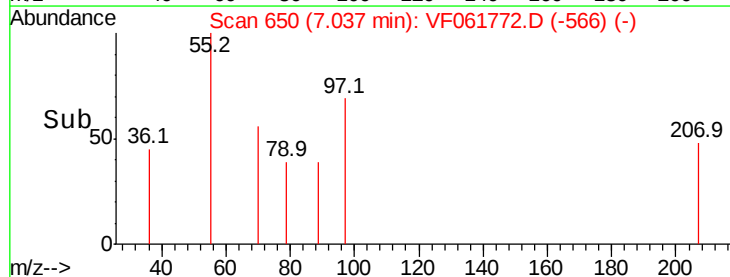
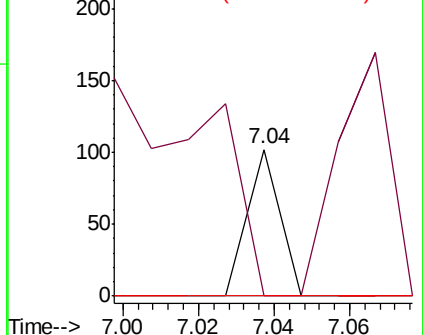
88 100

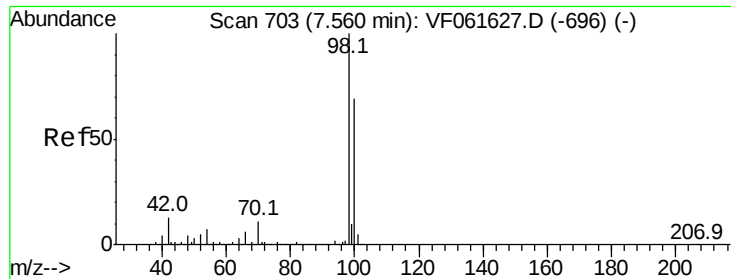
43 0.0 32.3 48.5#

58 0.0 59.4 89.2#



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: 34.628 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

Instrument :

MSVOA_F

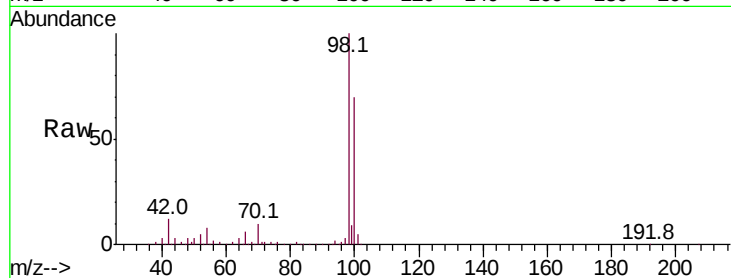
ClientSampleId :

Tot Ion: 98 Resp: 312148

Ion Ratio Lower Upper

98 100

100 70.3 55.4 83.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.54

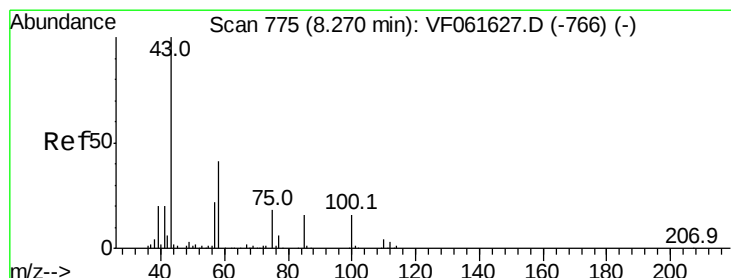
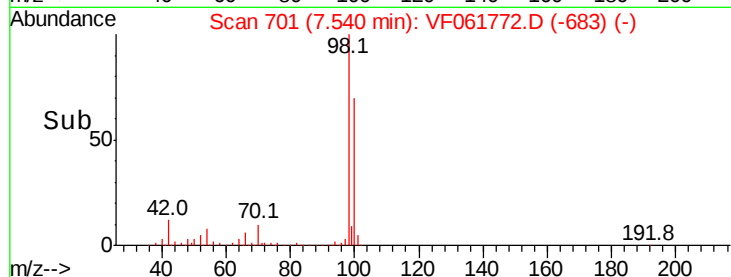
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.521 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.02 min

Lab File: VF061772.D

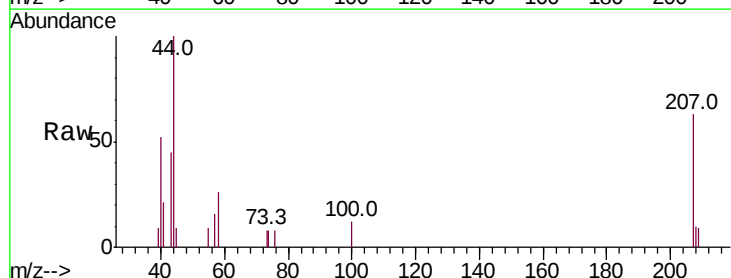
Acq: 27 Feb 2019 18:01

Tgt Ion: 43 Resp: 2499

Ion Ratio Lower Upper

43 100

58 57.8 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

800

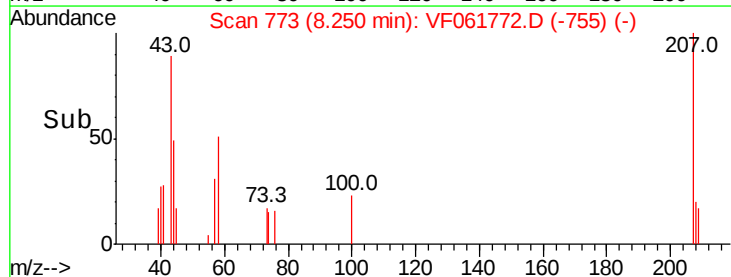
600

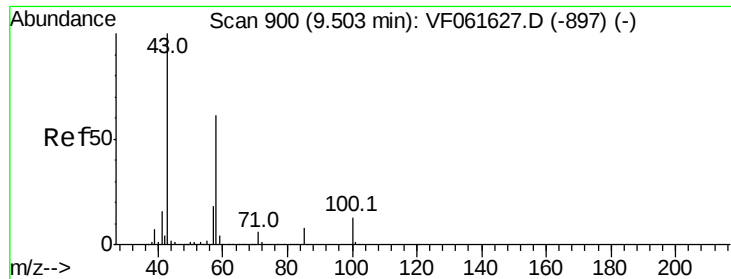
400

200

0

Time-->

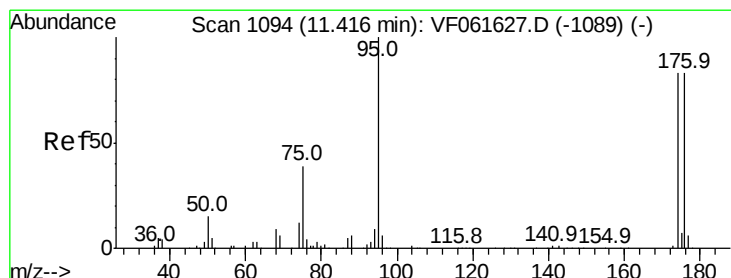
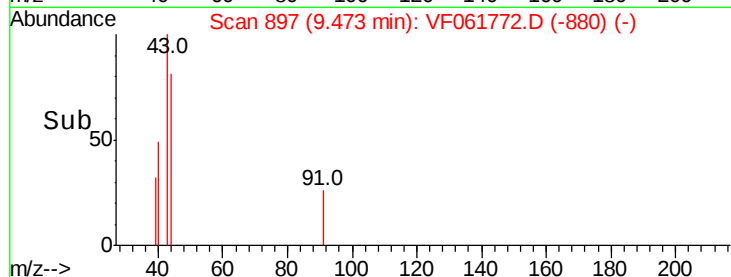
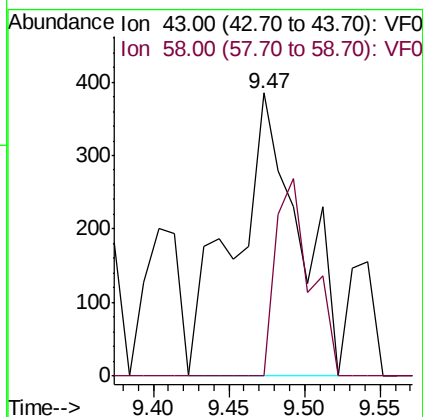
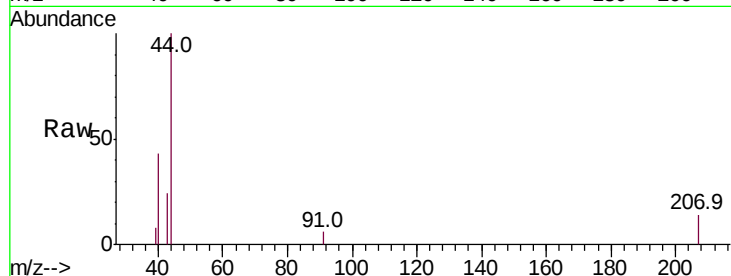




#59
2-Hexanone
Concen: 1.002 ug/l
RT: 9.47 min Scan# 897
Delta R.T. -0.03 min
Lab File: VF061772.D
Acq: 27 Feb 2019 18:01

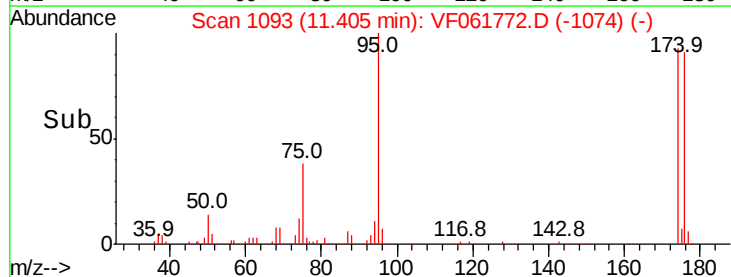
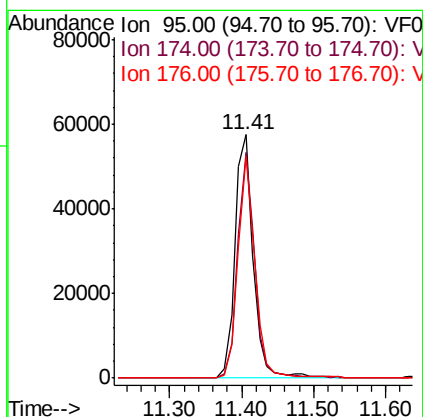
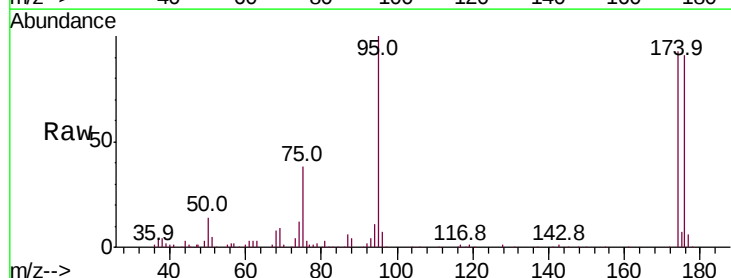
Instrument :
MSVOA_F
ClientSampled :

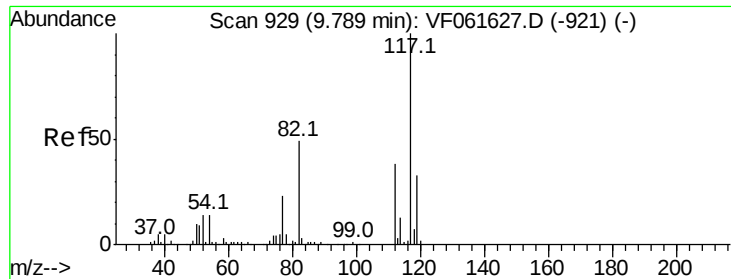
Tot Ion: 43 Resp: 1154
Ion Ratio Lower Upper
43 100
58 0.0 28.5 85.5#



#62
4-Bromofluorobenzene
Concen: 28.061 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF061772.D
Acq: 27 Feb 2019 18:01

Tgt Ion: 95 Resp: 102347
Ion Ratio Lower Upper
95 100
174 92.8 0.0 165.8
176 91.2 0.0 167.0

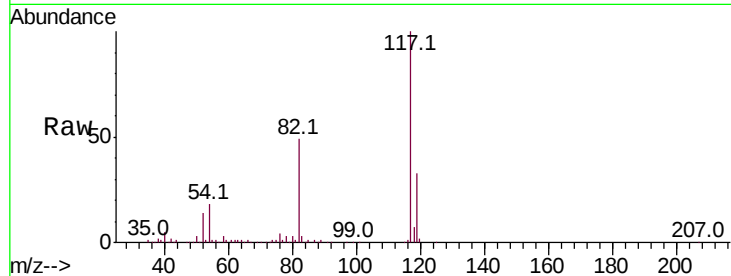




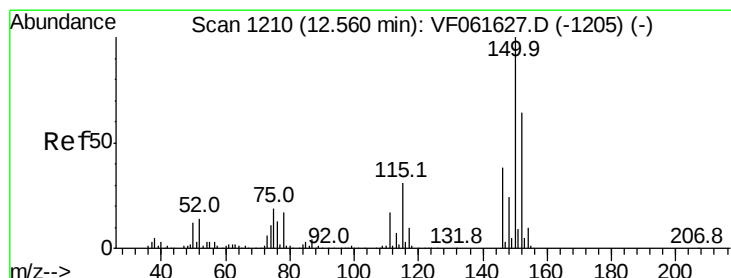
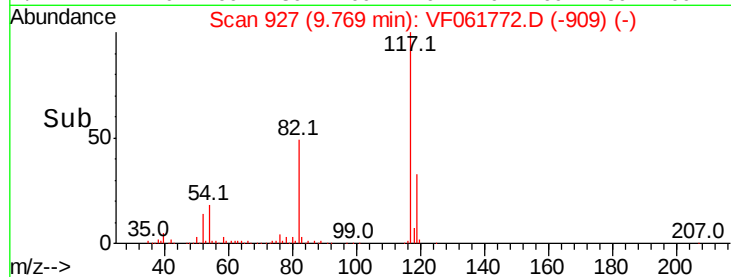
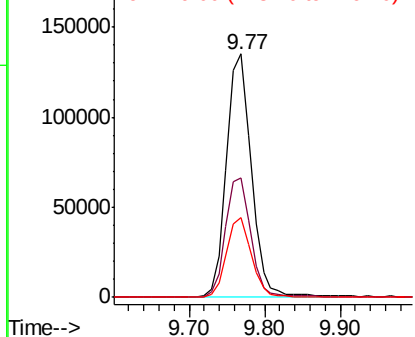
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF061772.D
Acq: 27 Feb 2019 18:01

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 309510
Ion Ratio Lower Upper
117 100
82 48.9 39.3 58.9
119 32.6 26.6 40.0

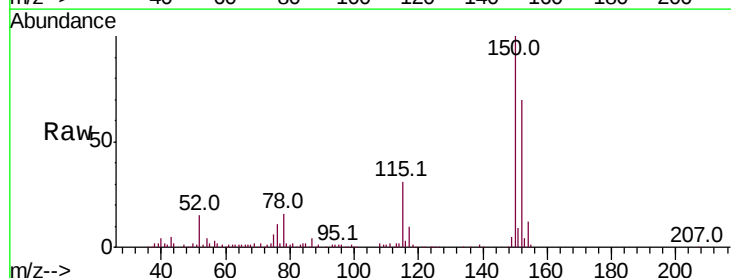


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

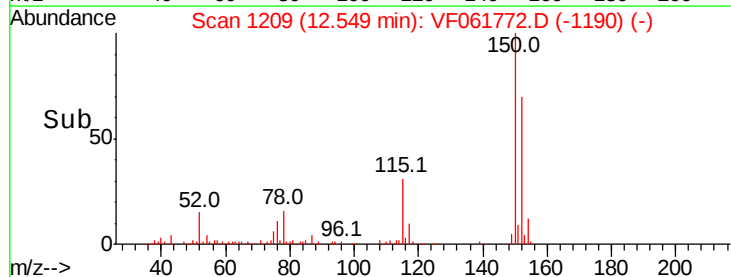
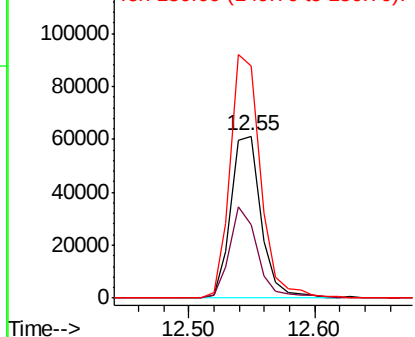


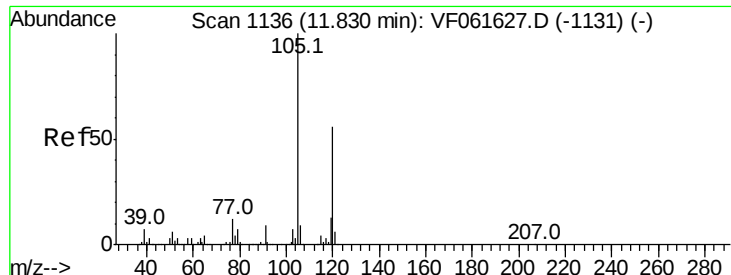
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061772.D
Acq: 27 Feb 2019 18:01

Tgt Ion:152 Resp: 101715
Ion Ratio Lower Upper
152 100
115 45.0 24.3 72.8
150 143.6 0.0 312.0



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





#80

1,3,5-Trimethylbenzene

Concen: 1.651 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

Instrument :

MSVOA_F

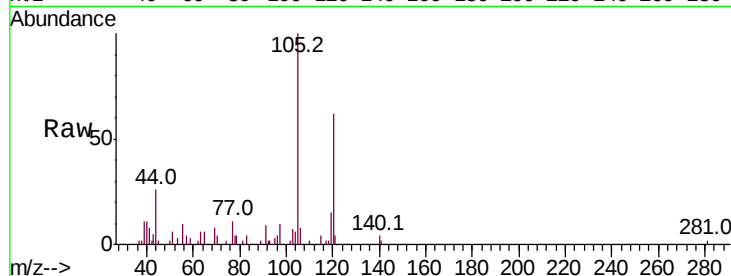
ClientSampleId :

Tot Ion:105 Resp: 9558

Ion Ratio Lower Upper

105 100

120 62.3 27.9 83.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.82

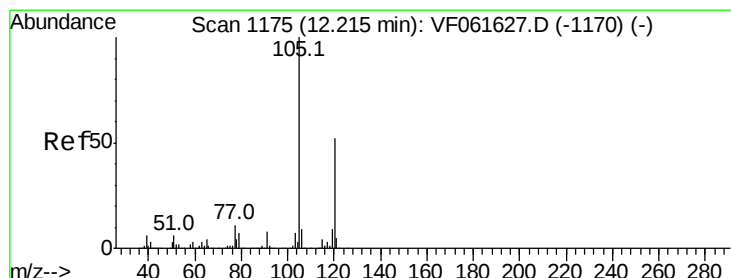
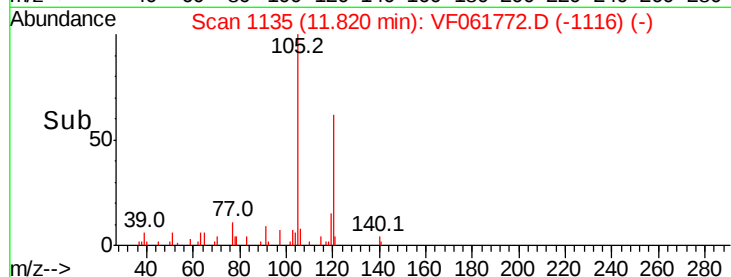
6000

4000

2000

0

Time--> 11.75 11.80 11.85 11.90



#84

1,2,4-Trimethylbenzene

Concen: 1.181 ug/l

RT: 12.19 min Scan# 1173

Delta R.T. -0.02 min

Lab File: VF061772.D

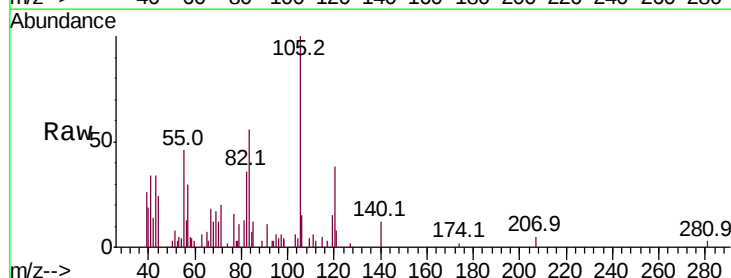
Acq: 27 Feb 2019 18:01

Tgt Ion:105 Resp: 6791

Ion Ratio Lower Upper

105 100

120 38.0 26.1 78.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.19

5000

4000

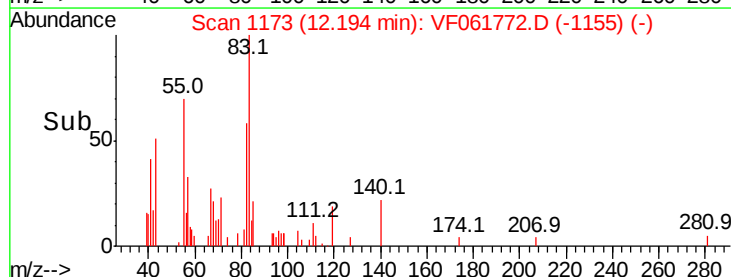
3000

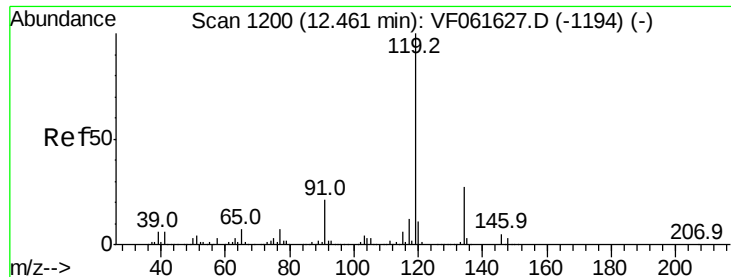
2000

1000

0

Time--> 12.15 12.20 12.25





#86

p-Isopropyltoluene

Concen: 1.844 ug/l

RT: 12.42 min Scan# 1196

Delta R.T. -0.04 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

Instrument :

MSVOA_F

ClientSampleId :

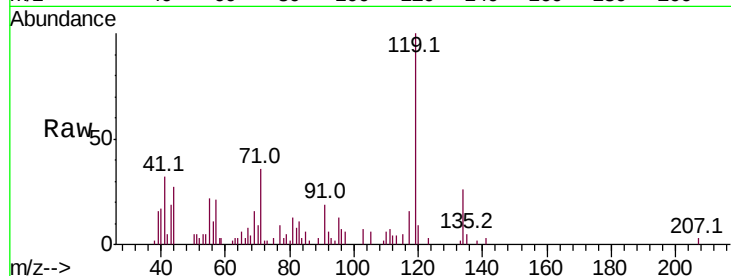
Tot Ion:119 Resp: 12829

Ion Ratio Lower Upper

119 100

134 26.0 13.7 41.1

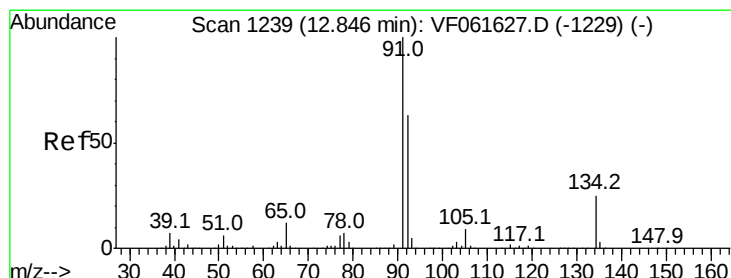
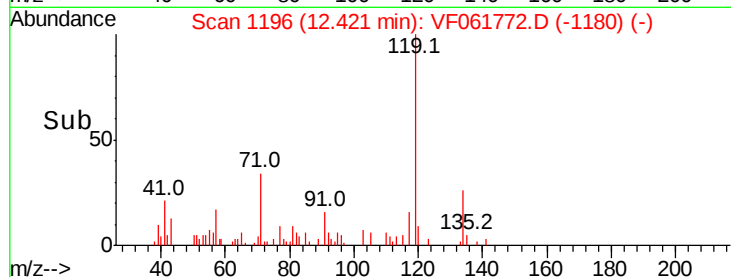
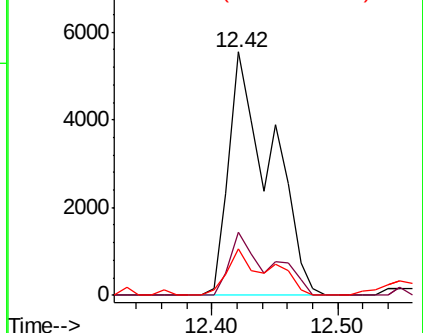
91 19.2 10.8 32.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89

n-Butylbenzene

Concen: 1.103 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

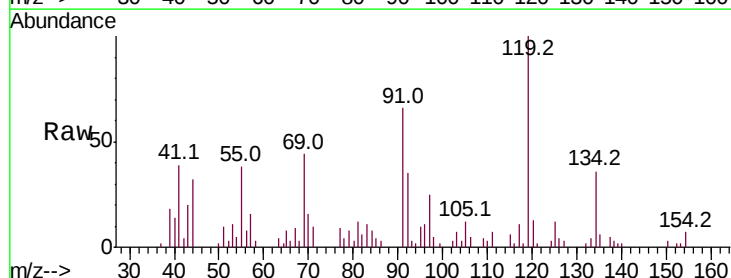
Tgt Ion: 91 Resp: 7246

Ion Ratio Lower Upper

91 100

92 53.0 31.4 94.3

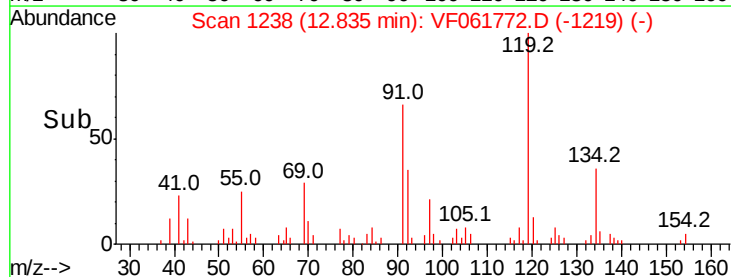
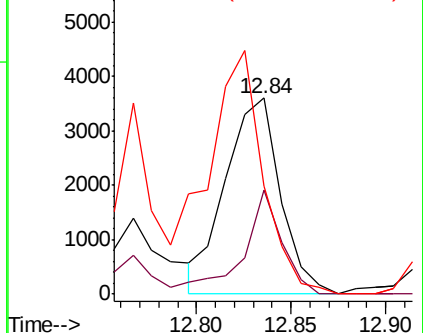
134 55.0 12.3 36.9#

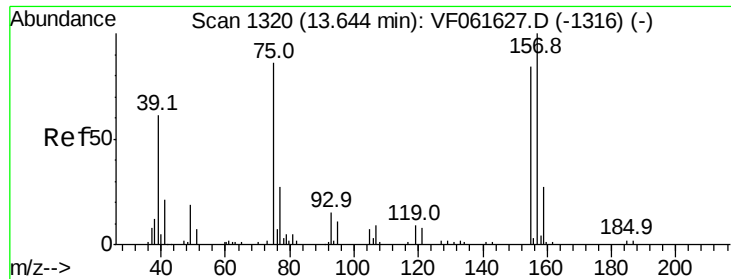


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.911 ug/l

RT: 13.71 min Scan# 1327

Delta R.T. 0.07 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

Instrument :

MSVOA_F

ClientSampleId :

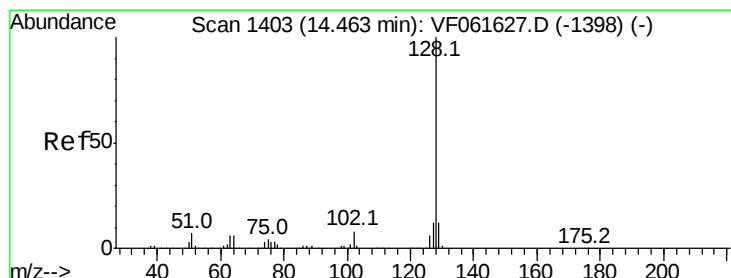
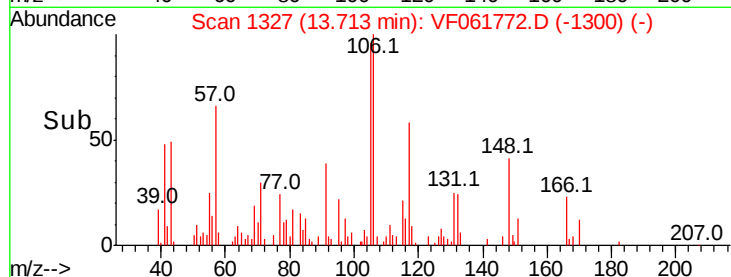
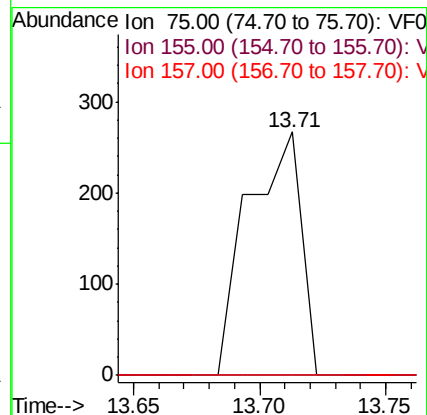
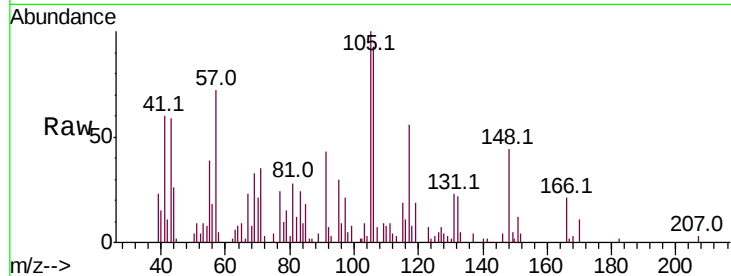
Tot Ion: 75 Resp: 393

Ion Ratio Lower Upper

75 100

155 0.0 48.9 146.8#

157 0.0 58.3 174.8#



#95

Naphthalene

Concen: 1.458 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF061772.D

Acq: 27 Feb 2019 18:01

Tgt Ion: 128 Resp: 6064

Ion Ratio Lower Upper

128 100

127 38.2 9.8 14.6#

129 48.9 9.4 14.2#

