

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012419\
 Data File : VF061502.D
 Acq On : 24 Jan 2019 16:09
 Operator : VA/AP
 Sample : K1223-09
 Misc : 5.36g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-U

Quant Time: Jan 25 04:09:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	101735	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	5.63	114	178136	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.81	117	90385	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	12.58	152	27924	50.00	ug/l	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	65032	51.77	ug/l	0.04
Spiked Amount			Recovery	=	103.54%	
35) Dibromofluoromethane	4.14	113	66307	47.17	ug/l	0.04
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	7.59	98	101144	26.26	ug/l	0.04
Spiked Amount			Recovery	=	52.52%	
62) 4-Bromofluorobenzene	11.43	95	37838	21.03	ug/l	0.03
Spiked Amount			Recovery	=	42.06%	

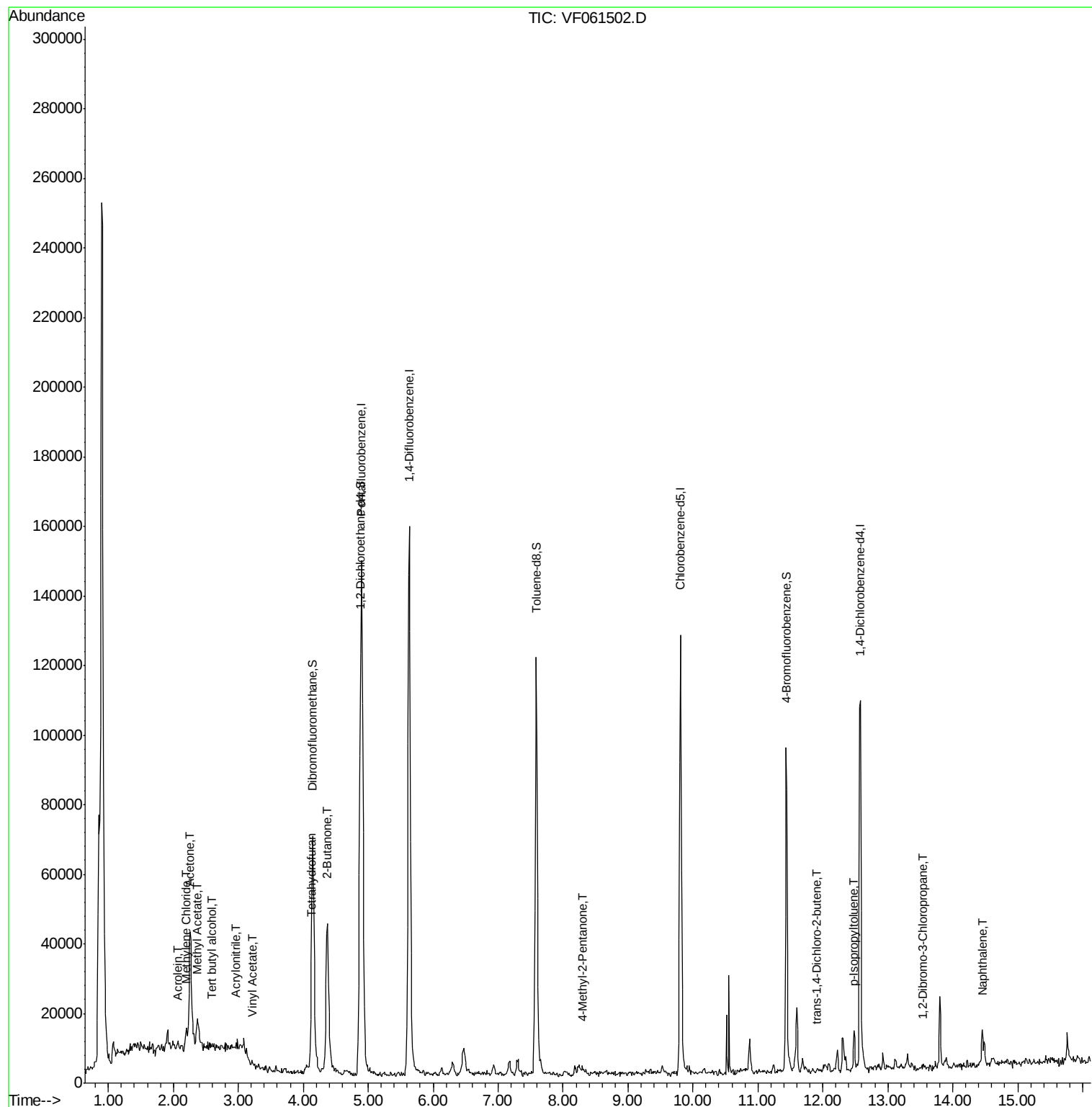
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.59	59	146	2.746	ug/l #	1
13) Acrolein	2.05	56	623	23.379	ug/l #	12
14) Allyl chloride	2.11	41	454	Below Cal	#	69
15) Acrylonitrile	2.96	53	499	3.664	ug/l #	14
16) Acetone	2.26	43	55791	221.412	ug/l	97
18) Methyl Acetate	2.37	43	13821	27.658	ug/l	93
20) Methylene Chloride	2.20	84	2441	1.136	ug/l #	87
23) Vinyl Acetate	3.23	43	965	3.866	ug/l #	78
25) 2-Butanone	4.37	43	96165	229.495	ug/l	98
29) Tetrahydrofuran	4.11	42	562	3.115	ug/l #	49
49) 1,4-Dioxane	6.43	88	60	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.31	43	2003	2.629	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.90	75	138	1.092	ug/l #	19
86) p-Isopropyltoluene	12.48	119	5977	2.826	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	13.55	75	94	1.310	ug/l #	1
95) Naphthalene	14.47	128	1979	1.657	ug/l #	72

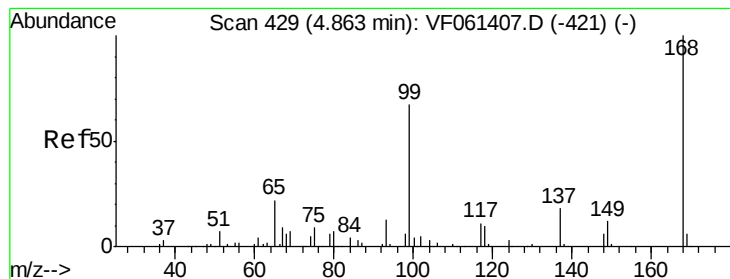
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.04 min

Lab File: VF061502.D

Acq: 24 Jan 2019 16:09

Instrument :

MSVOA_F

ClientSampleId :

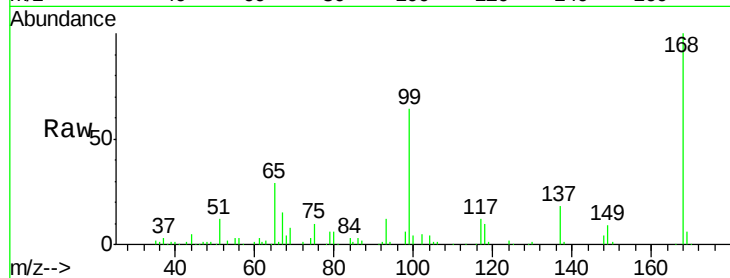
TS-U

Tot Ion:168 Resp: 101735

Ion Ratio Lower Upper

168 100

99 63.7 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

30000

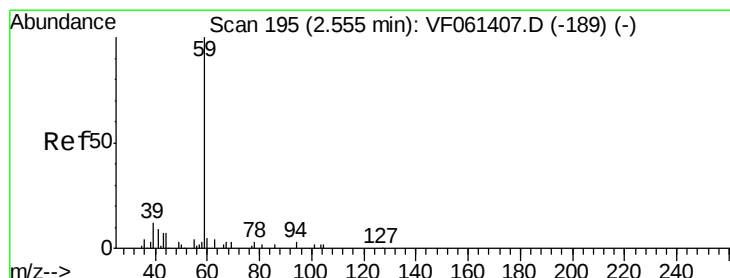
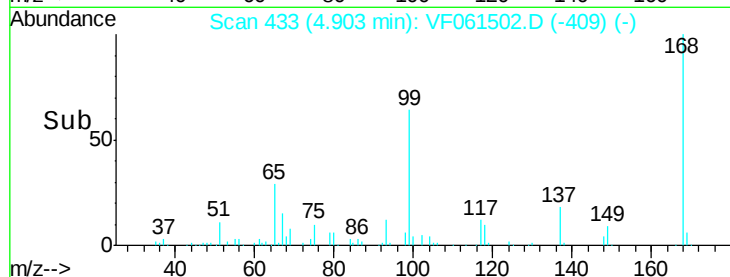
20000

10000

0

Time-->

4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 2.746 ug/l

RT: 2.59 min Scan# 199

Delta R.T. 0.04 min

Lab File: VF061502.D

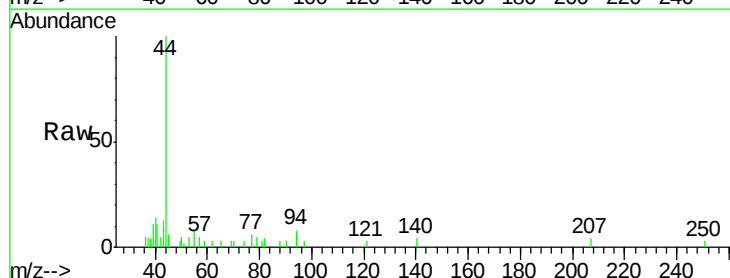
Acq: 24 Jan 2019 16:09

Tgt Ion: 59 Resp: 146

Ion Ratio Lower Upper

59 100

57 160.8 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

150

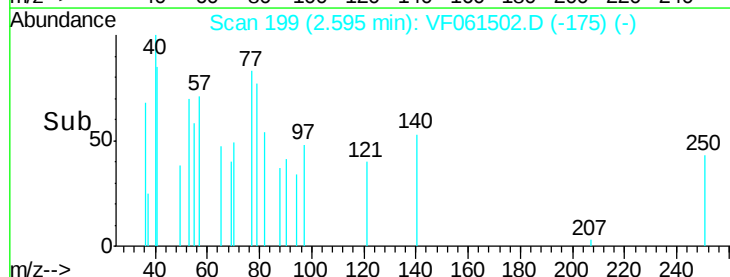
100

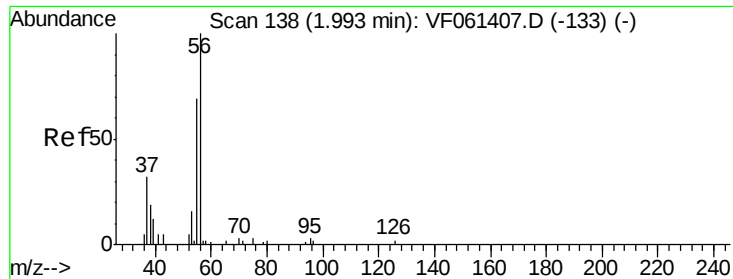
50

0

Time-->

2.55 2.60 2.65

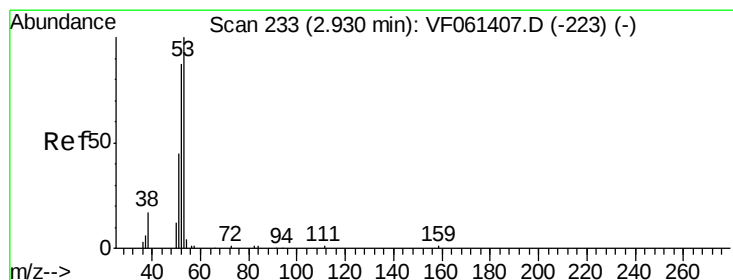
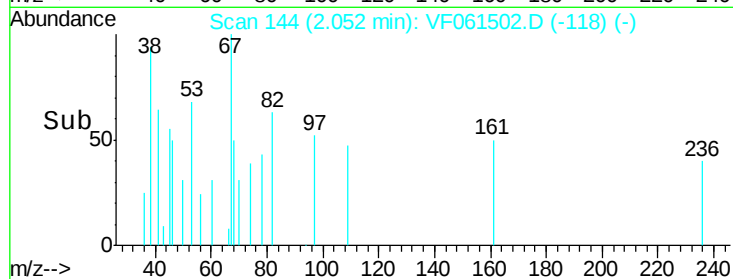
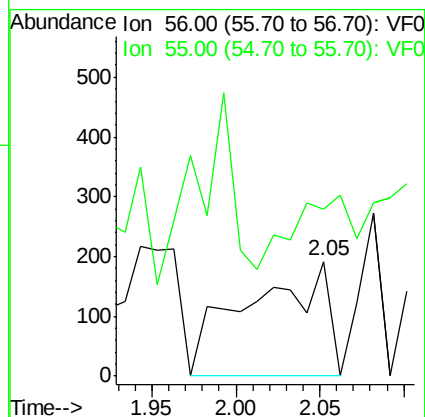
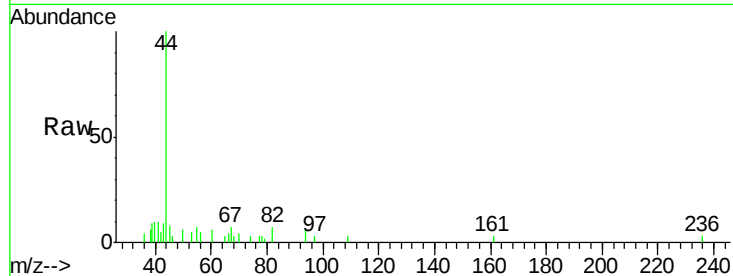




#13
Acrolein
Concen: 23.379 ug/l
RT: 2.05 min Scan# 144
Delta R.T. 0.06 min
Lab File: VF061502.D
Acq: 24 Jan 2019 16:09

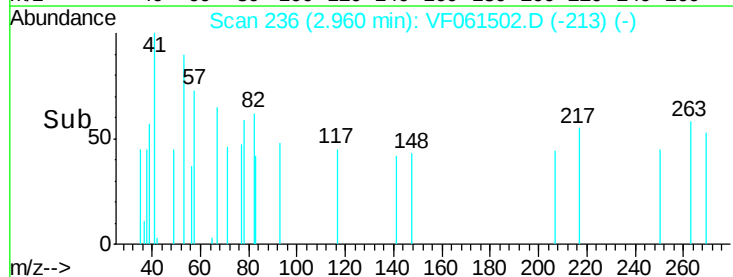
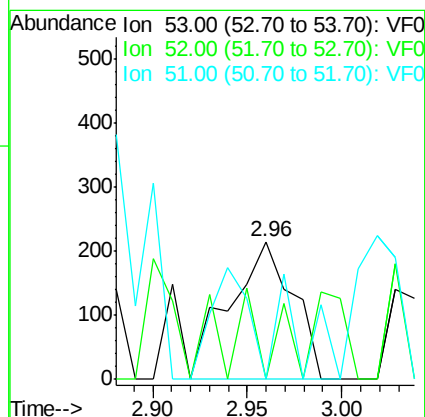
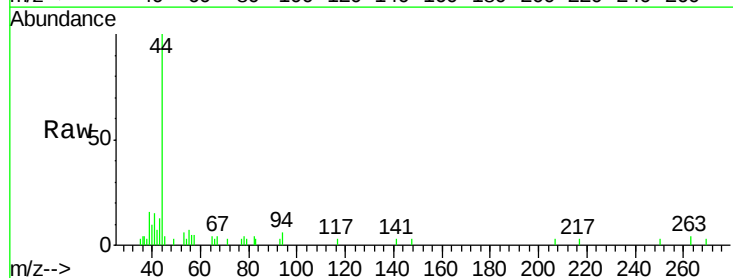
Instrument :
MSVOA_F
ClientSampleId :
TS-U

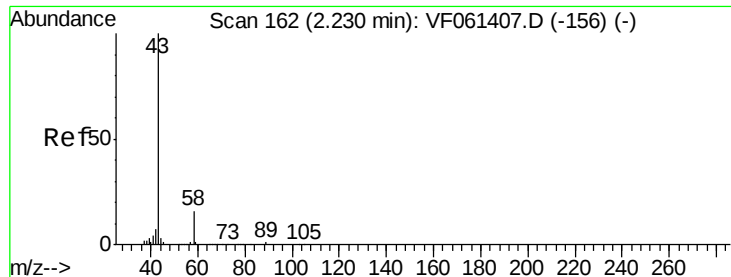
Tot Ion: 56 Resp: 623
Ion Ratio Lower Upper
56 100
55 145.3 57.5 86.3#



#15
Acrylonitrile
Concen: 3.664 ug/l
RT: 2.96 min Scan# 236
Delta R.T. 0.03 min
Lab File: VF061502.D
Acq: 24 Jan 2019 16:09

Tgt Ion: 53 Resp: 499
Ion Ratio Lower Upper
53 100
52 0.0 69.6 104.4#
51 0.0 36.8 55.2#

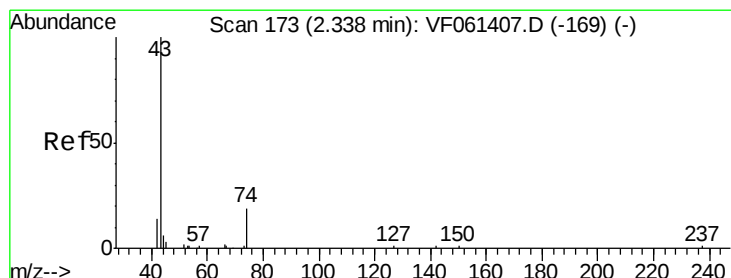
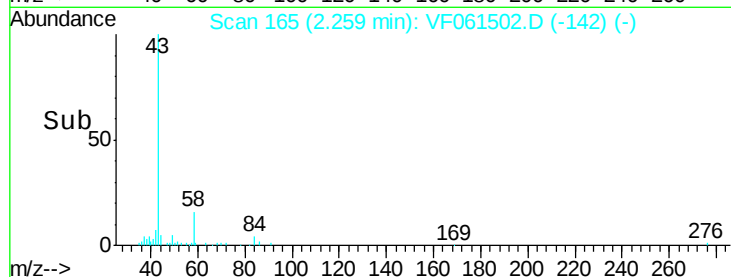
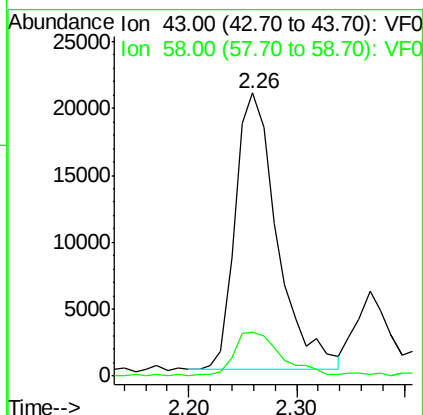
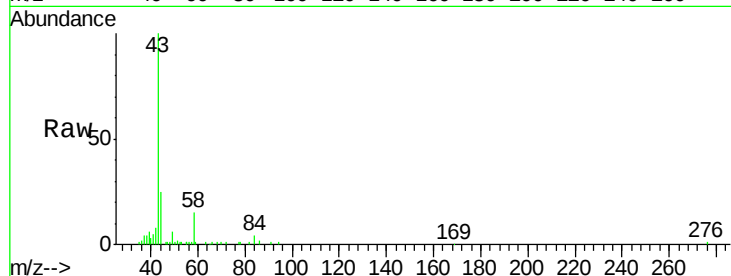




#16
Acetone
Concen: 221.412 ug/l
RT: 2.26 min Scan# 165
Delta R.T. 0.03 min
Lab File: VF061502.D
Acq: 24 Jan 2019 16:09

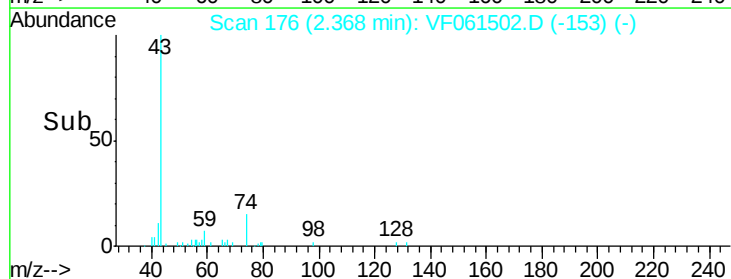
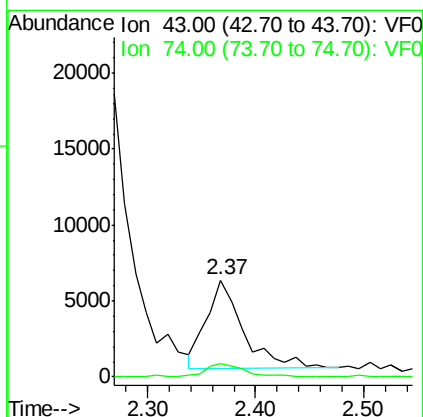
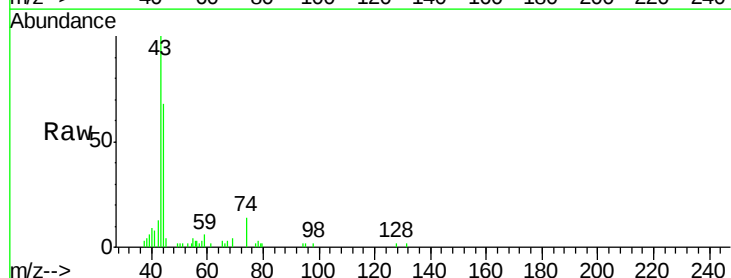
Instrument :
MSVOA_F
ClientSampleId :
TS-U

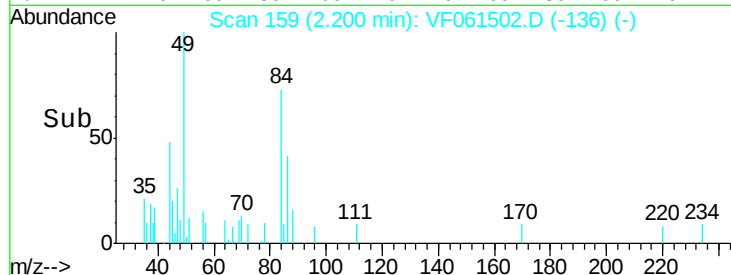
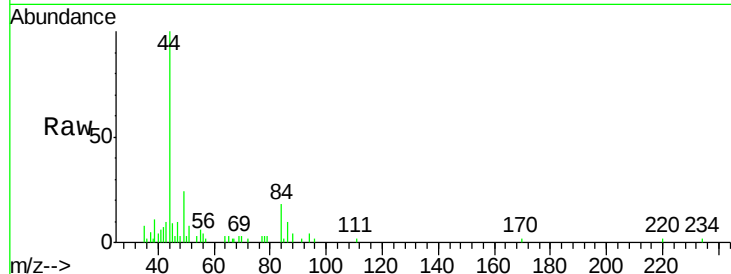
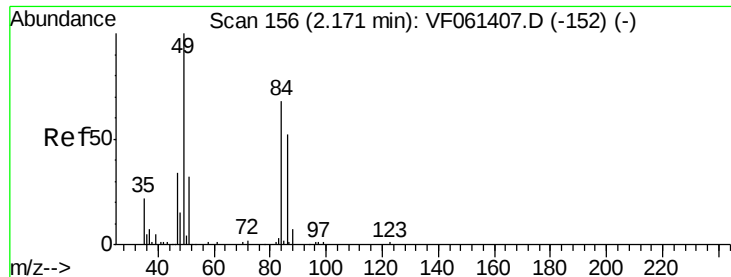
Tot Ion: 43 Resp: 55791
Ion Ratio Lower Upper
43 100
58 15.5 13.3 19.9



#18
Methyl Acetate
Concen: 27.658 ug/l
RT: 2.37 min Scan# 176
Delta R.T. 0.03 min
Lab File: VF061502.D
Acq: 24 Jan 2019 16:09

Tgt Ion: 43 Resp: 13821
Ion Ratio Lower Upper
43 100
74 13.8 13.4 20.0

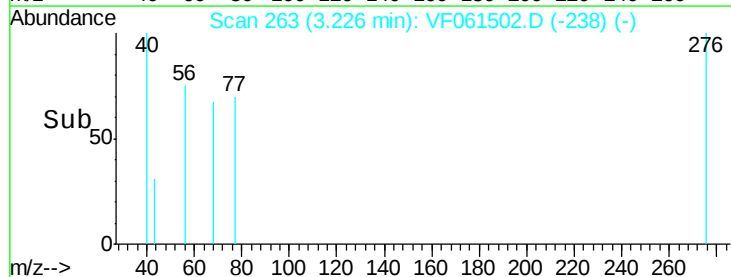
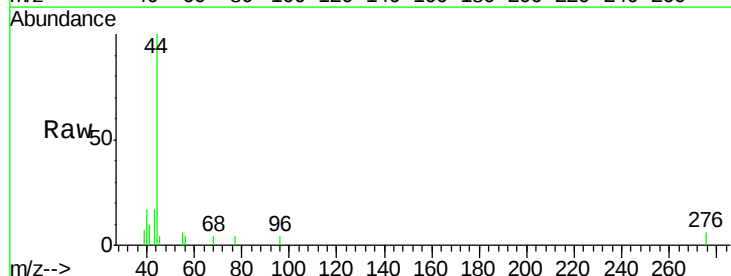
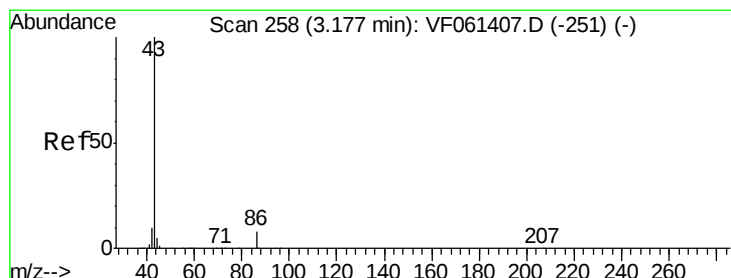
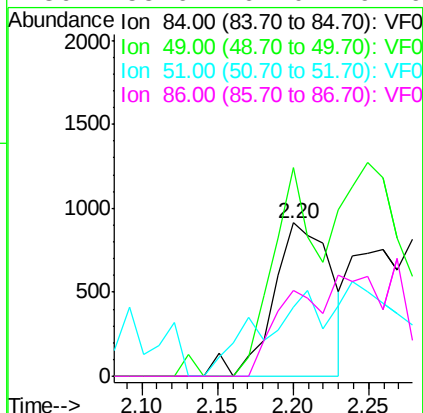




#20
Methvlene Chloride
Concen: 1.136 ug/l
RT: 2.20 min Scan# 159
Delta R.T. 0.03 min
Lab File: VF061502.D
Acq: 24 Jan 2019 16:09

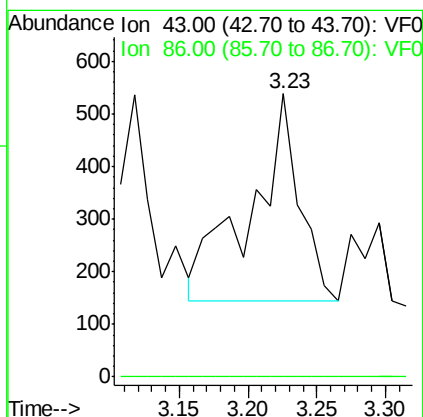
Instrument :
MSVOA_F
ClientSampleId :
TS-U

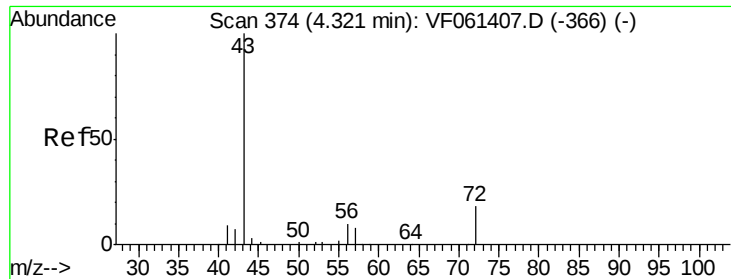
Tot Ion: 84 Resp: 2441
Ion Ratio Lower Upper
84 100
49 136.4 120.0 180.0
51 45.1 38.6 58.0
86 55.6 61.0 91.6#



#23
Vinyl Acetate
Concen: 3.866 ug/l
RT: 3.23 min Scan# 263
Delta R.T. 0.05 min
Lab File: VF061502.D
Acq: 24 Jan 2019 16:09

Tgt Ion: 43 Resp: 965
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#





#25

2-Butanone

Concen: 229.495 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.05 min

Lab File: VF061502.D

Acq: 24 Jan 2019 16:09

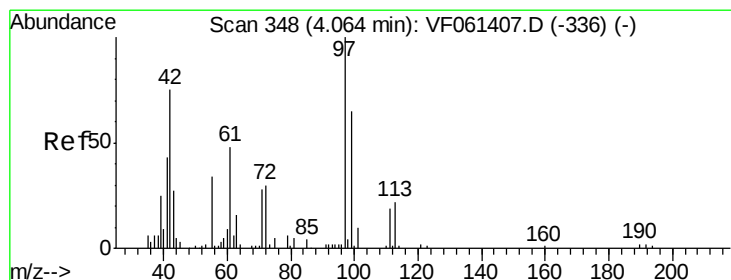
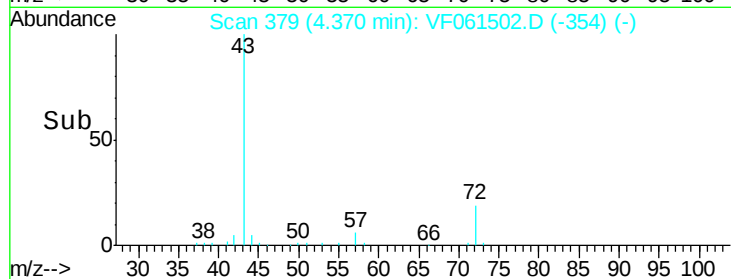
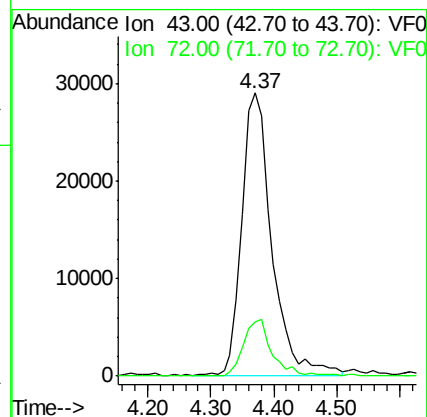
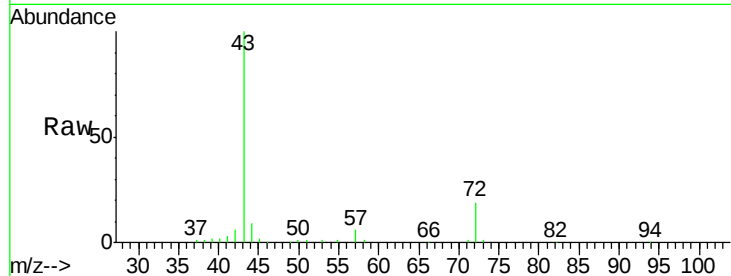
Instrument :
MSVOA_F
ClientSampleId :
TS-U

Tot Ion: 43 Resp: 96165

Ion Ratio Lower Upper

43 100

72 19.0 15.8 23.6



#29

Tetrahydrofuran

Concen: 3.115 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.05 min

Lab File: VF061502.D

Acq: 24 Jan 2019 16:09

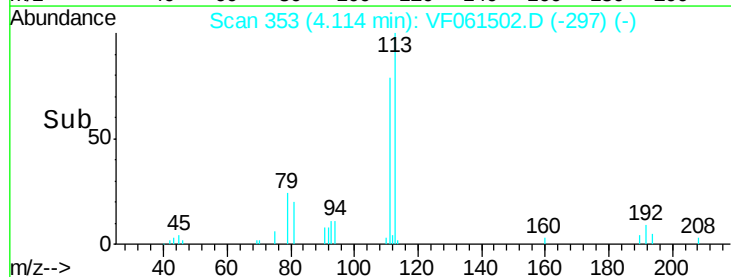
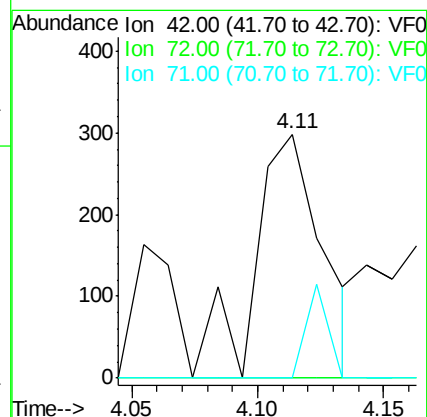
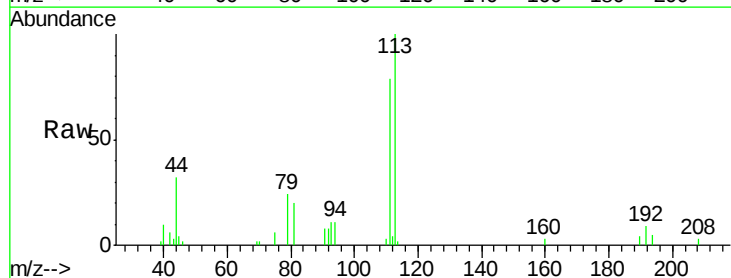
Tgt Ion: 42 Resp: 562

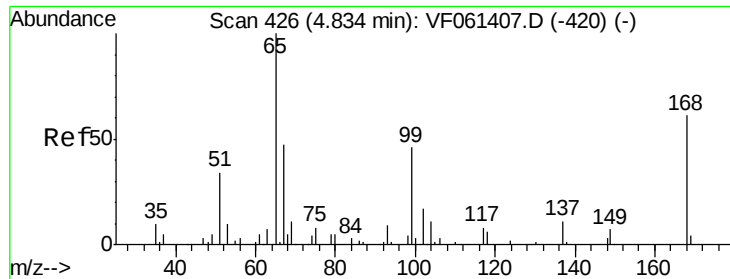
Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

71 12.1 29.6 44.4#





#33

1,2-Dichloroethane-d4

Concen: 51.775 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.04 min

Lab File: VF061502.D

Acq: 24 Jan 2019 16:09

Instrument :

MSVOA_F

ClientSampled :

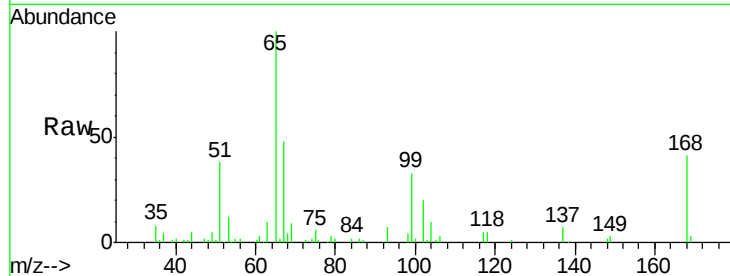
TS-U

Tot Ion: 65 Resp: 65032

Ion Ratio Lower Upper

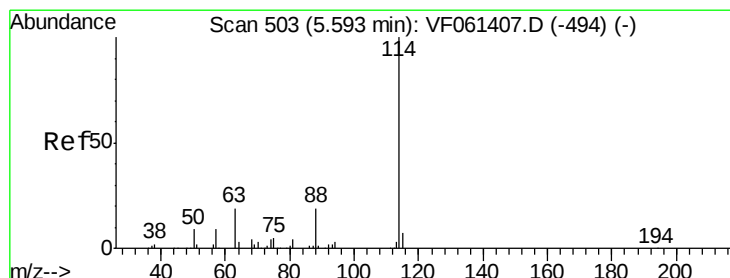
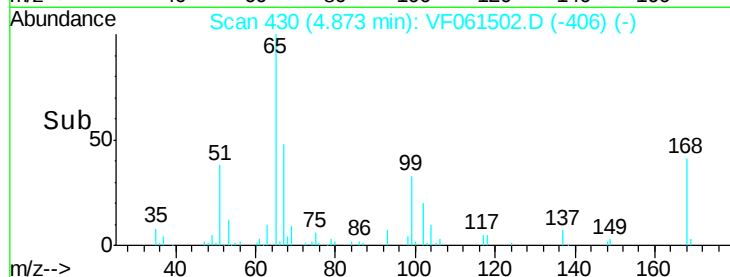
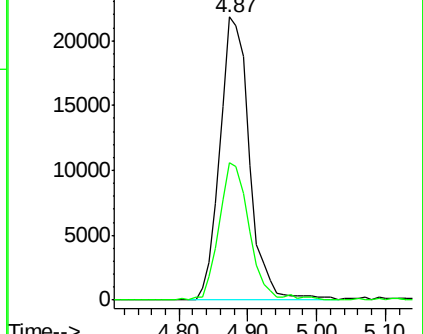
65 100

67 48.4 0.0 99.8



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: 5.63 min Scan# 507

Delta R.T. 0.04 min

Lab File: VF061502.D

Acq: 24 Jan 2019 16:09

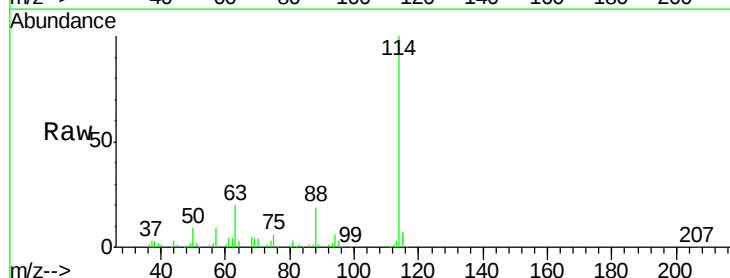
Tgt Ion: 114 Resp: 178136

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.0

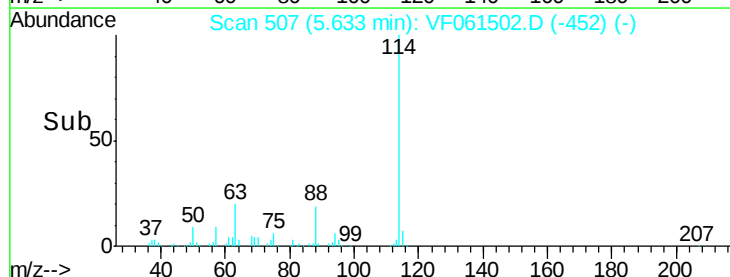
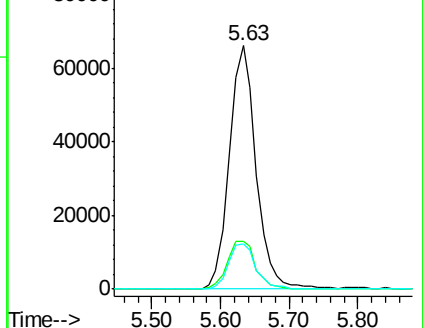
88 18.7 0.0 37.4

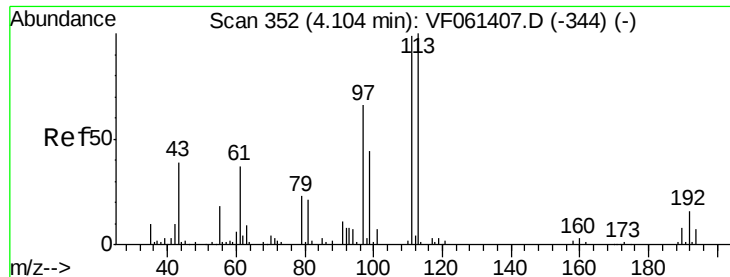


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

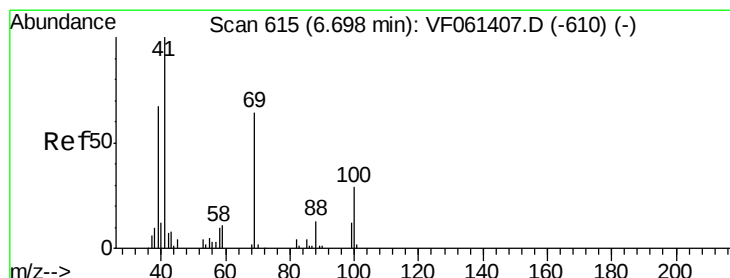
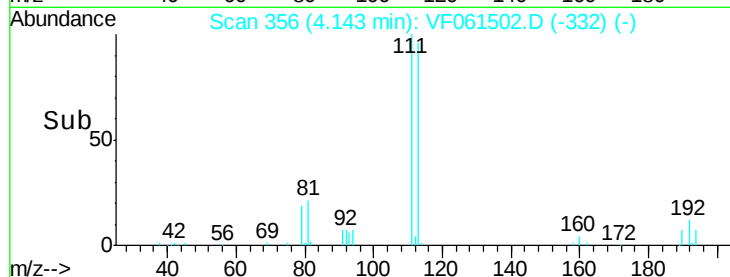
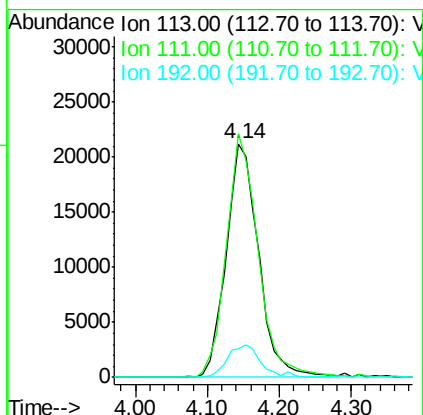
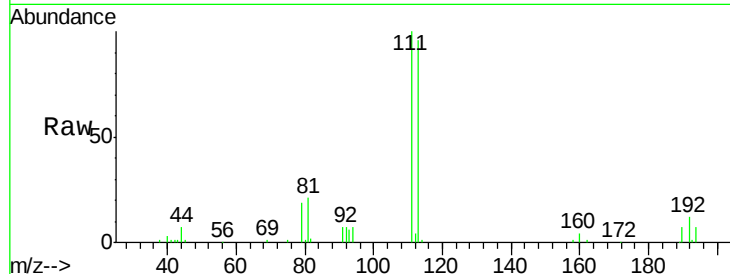




#35
 Dibromofluoromethane
 Concen: 47.172 ug/l
 RT: 4.14 min Scan# 356
 Delta R.T. 0.04 min
 Lab File: VF061502.D
 Acq: 24 Jan 2019 16:09

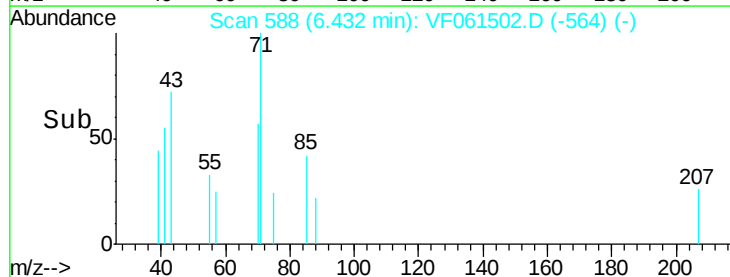
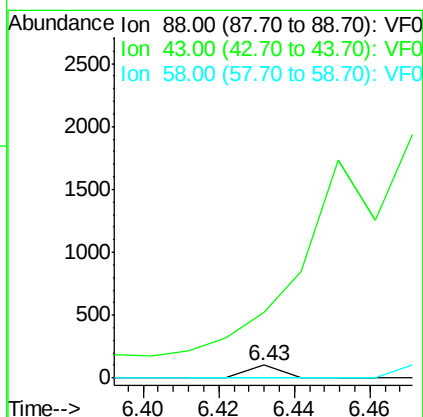
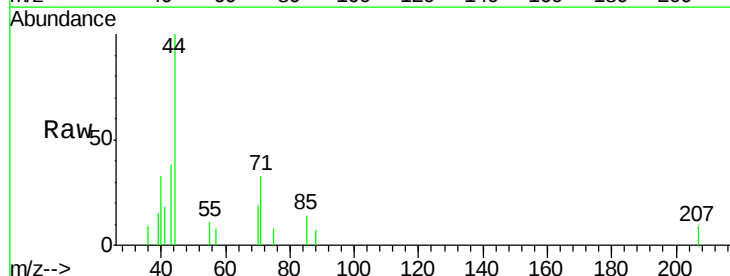
Instrument :
 MSVOA_F
 ClientSampleId :
 TS-U

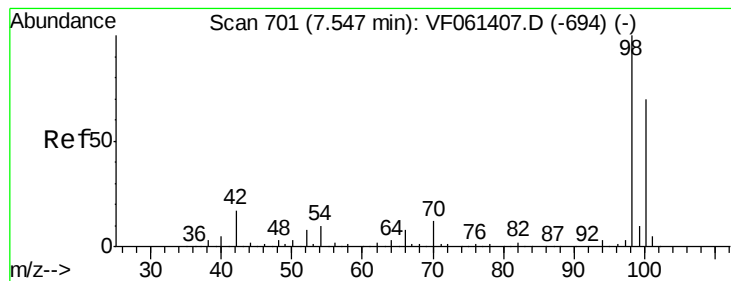
Tot Ion:113 Resp: 66307
 Ion Ratio Lower Upper
 113 100
 111 104.3 79.4 119.0
 192 12.3 12.4 18.6#



#49
 1,4-Dioxane
 Concen: Below Cal
 RT: 6.43 min Scan# 588
 Delta R.T. -0.27 min
 Lab File: VF061502.D
 Acq: 24 Jan 2019 16:09

Tgt Ion: 88 Resp: 60
 Ion Ratio Lower Upper
 88 100
 43 519.8 55.5 83.3#
 58 0.0 59.9 89.9#





#50

Toluene-d8

Concen: 26.263 ug/l

RT: 7.59 min Scan# 705

Delta R.T. 0.04 min

Lab File: VF061502.D

Acq: 24 Jan 2019 16:09

Instrument :

MSVOA_F

ClientSampleId :

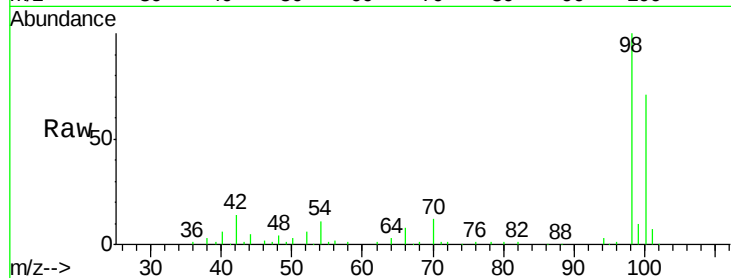
TS-U

Tot Ion: 98 Resp: 101144

Ion Ratio Lower Upper

98 100

100 71.4 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.59

40000

30000

20000

10000

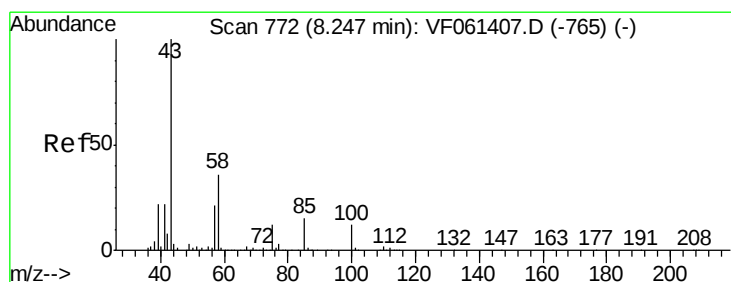
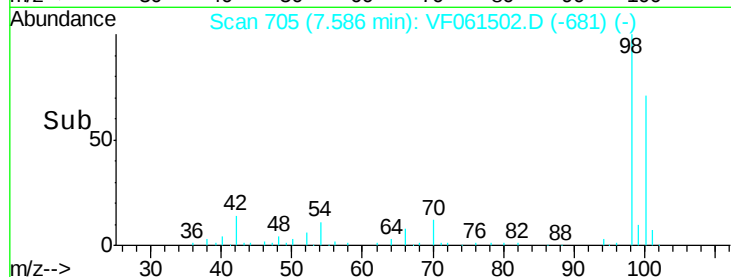
0

Time-->

7.50

7.60

7.70



#51

4-Methyl-2-Pentanone

Concen: 2.629 ug/l

RT: 8.31 min Scan# 778

Delta R.T. 0.06 min

Lab File: VF061502.D

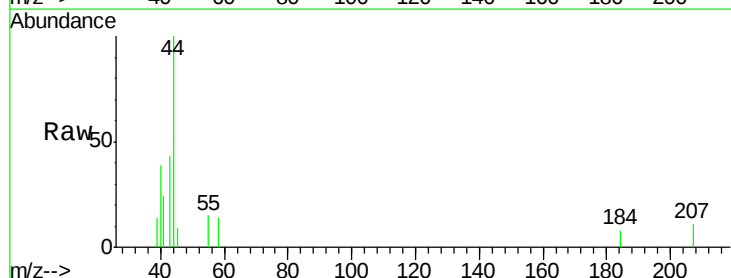
Acq: 24 Jan 2019 16:09

Tgt Ion: 43 Resp: 2003

Ion Ratio Lower Upper

43 100

58 33.4 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.31

600

400

200

0

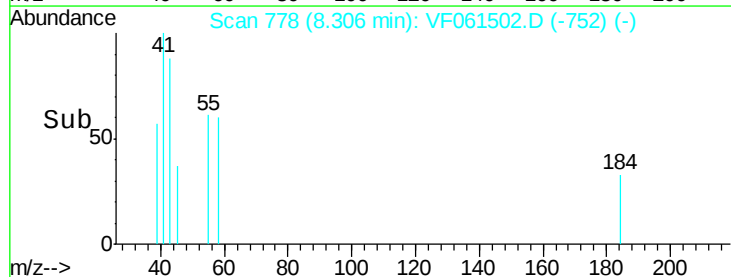
Time-->

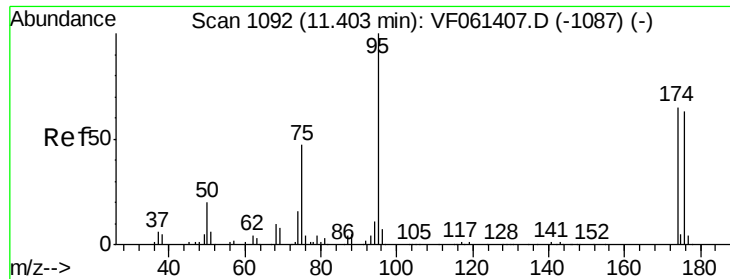
8.20

8.25

8.30

8.35

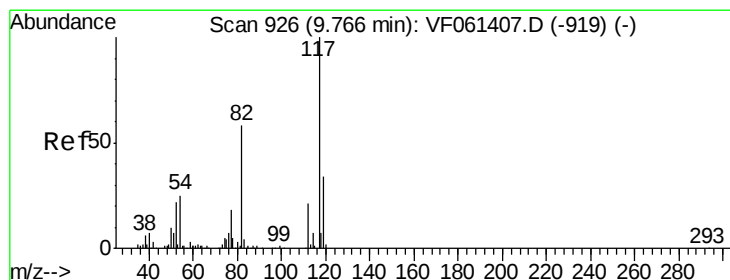
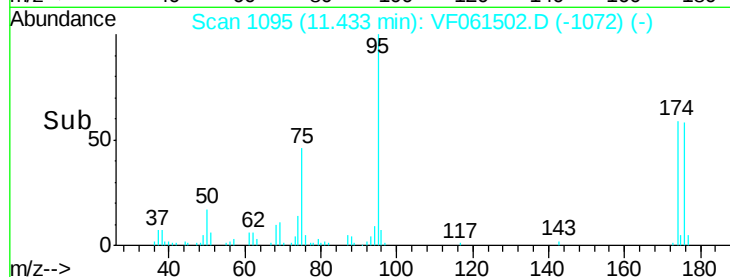
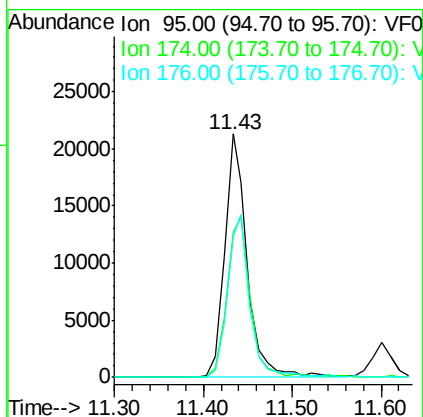
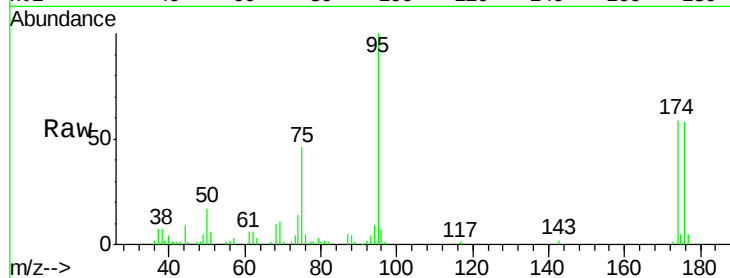




#62
4-Bromofluorobenzene
Concen: 21.028 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. 0.03 min
Lab File: VF061502.D
Acq: 24 Jan 2019 16:09

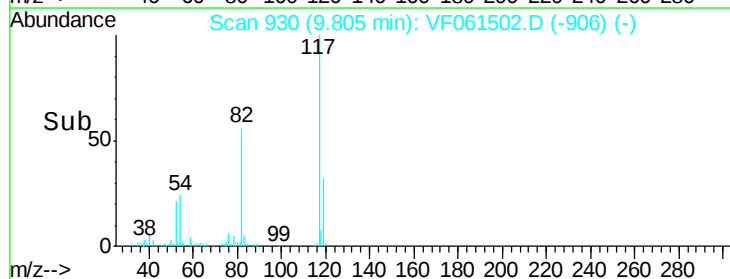
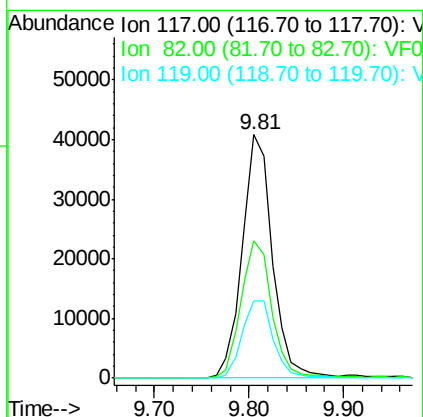
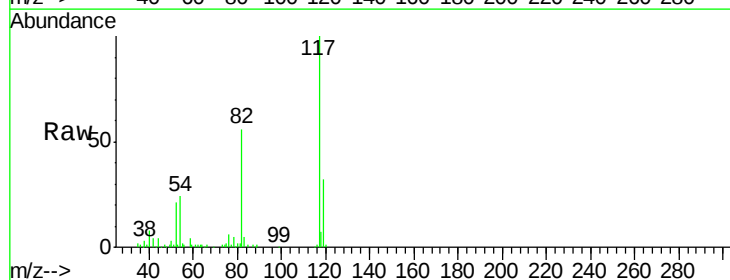
Instrument :
MSVOA_F
ClientSampled :
TS-U

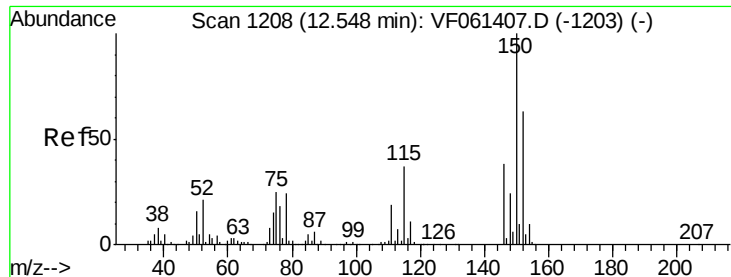
Tot Ion: 95 Resp: 37838
Ion Ratio Lower Upper
95 100
174 59.3 0.0 130.4
176 58.2 0.0 126.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 930
Delta R.T. 0.04 min
Lab File: VF061502.D
Acq: 24 Jan 2019 16:09

Tgt Ion: 117 Resp: 90385
Ion Ratio Lower Upper
117 100
82 56.5 46.4 69.6
119 31.5 27.2 40.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.58 min Scan# 1211

Delta R.T. 0.03 min

Lab File: VF061502.D

Acq: 24 Jan 2019 16:09

Instrument :

MSVOA_F

ClientSampled :

TS-U

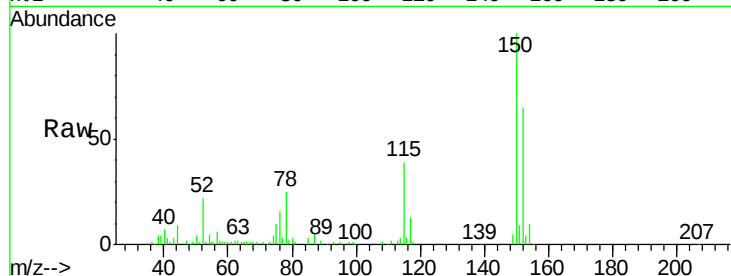
Tot Ion:152 Resp: 27924

Ion Ratio Lower Upper

152 100

115 60.6 30.0 90.0

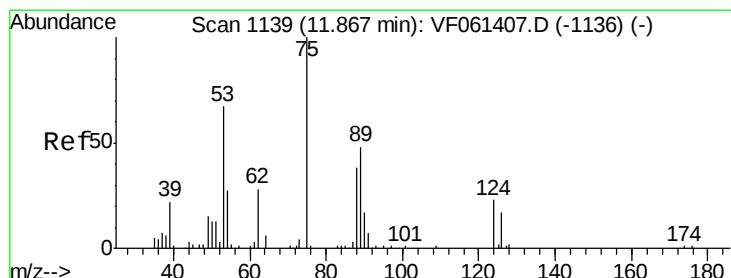
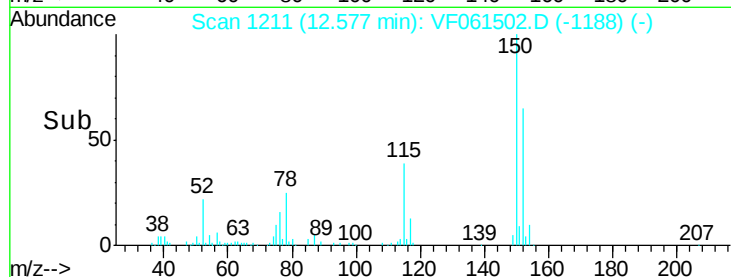
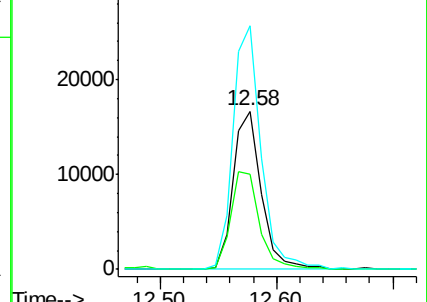
150 154.0 0.0 321.4



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



#81

trans-1,4-Dichloro-2-butene

Concen: 1.092 ug/l

RT: 11.90 min Scan# 1142

Delta R.T. 0.03 min

Lab File: VF061502.D

Acq: 24 Jan 2019 16:09

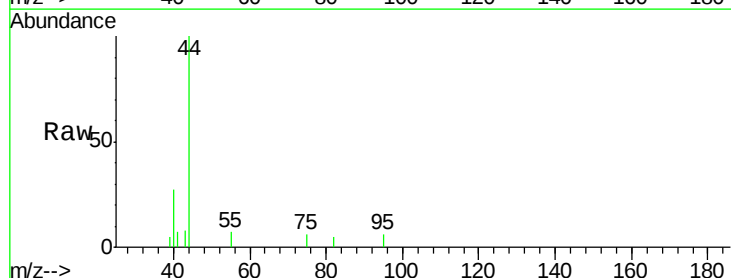
Tgt Ion: 75 Resp: 138

Ion Ratio Lower Upper

75 100

53 0.0 57.8 86.6#

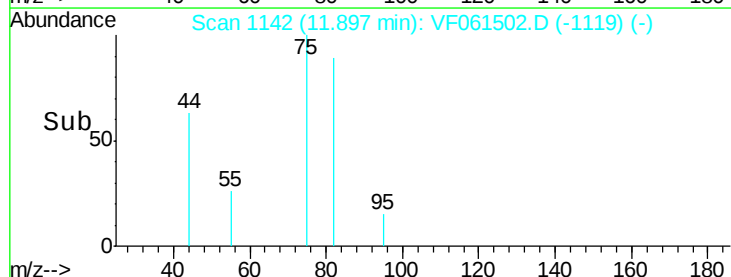
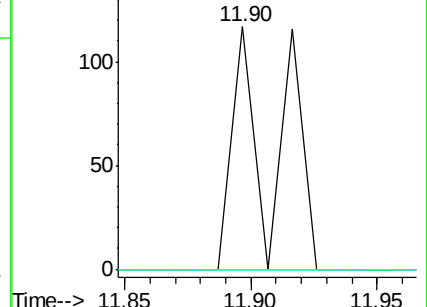
89 0.0 40.7 61.1#

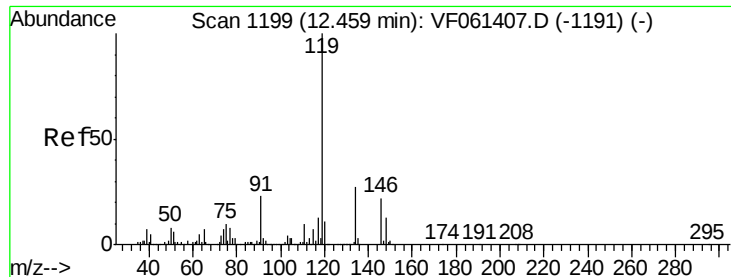


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

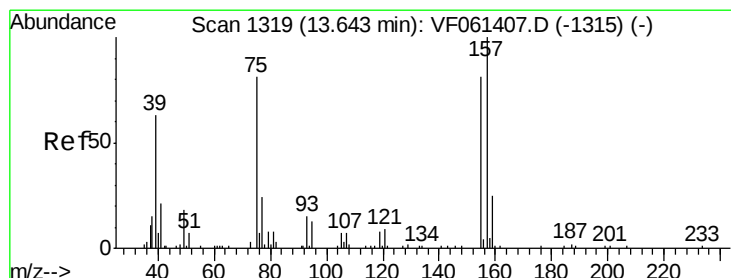
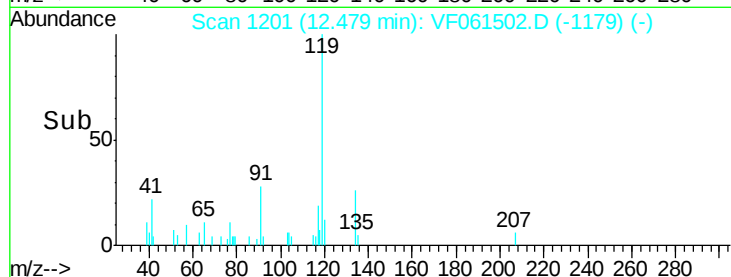
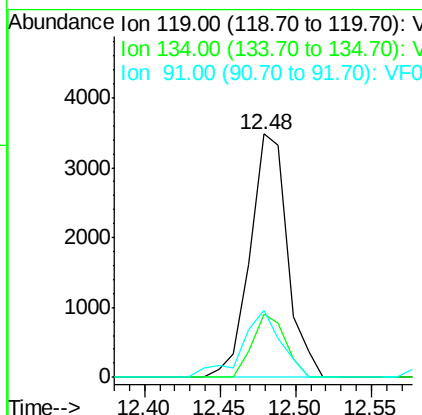
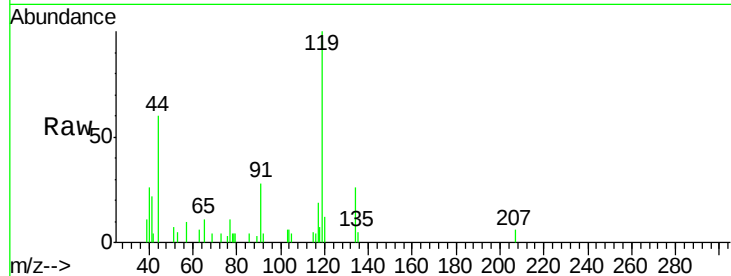




#86
 p-Isopropyltoluene
 Concen: 2.826 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.02 min
 Lab File: VF061502.D
 Acq: 24 Jan 2019 16:09

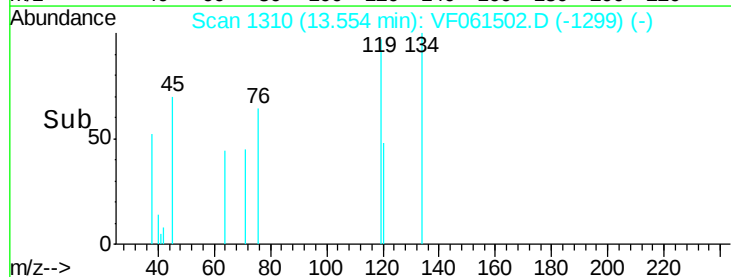
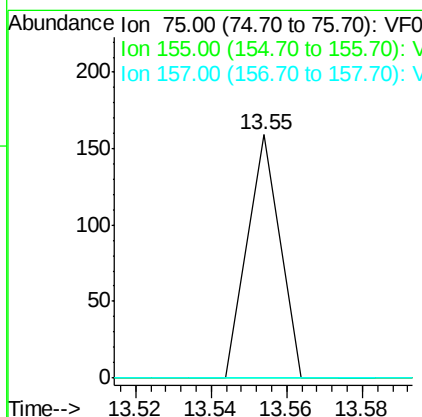
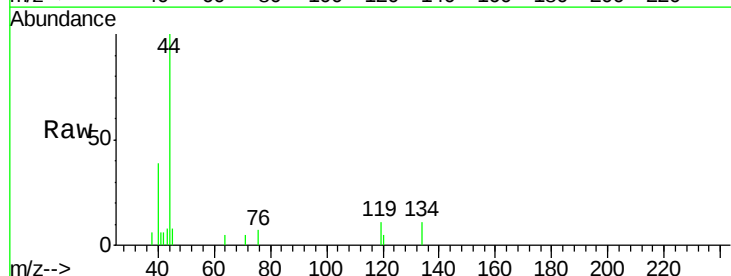
Instrument :
 MSVOA_F
 ClientSampleId :
 TS-U

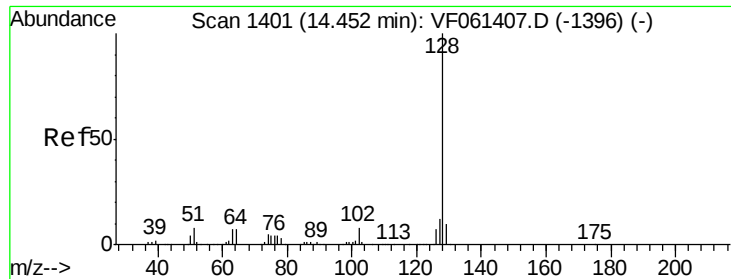
Tot Ion:119 Resp: 5977
 Ion Ratio Lower Upper
 119 100
 134 25.8 13.4 40.2
 91 27.5 11.4 34.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.310 ug/l
 RT: 13.55 min Scan# 1310
 Delta R.T. -0.09 min
 Lab File: VF061502.D
 Acq: 24 Jan 2019 16:09

Tgt Ion: 75 Resp: 94
 Ion Ratio Lower Upper
 75 100
 155 0.0 49.7 149.1#
 157 0.0 61.4 184.1#

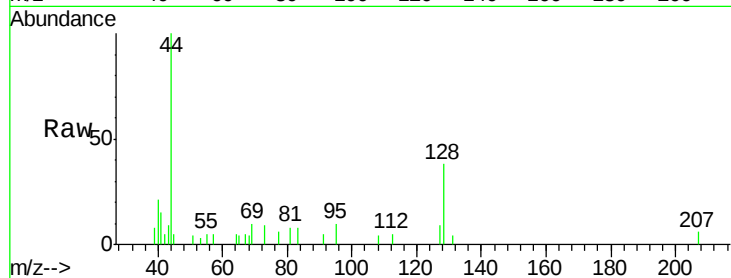




#95
Naphthalene
Concen: 1.657 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. 0.02 min
Lab File: VF061502.D
Acq: 24 Jan 2019 16:09

Instrument :
MSVOA_F
ClientSampleId :
TS-U

Tot Ion	Ratio	Lower	Upper
128	100		
127	22.7	9.5	14.3#
129	0.0	8.4	12.6#



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

