

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010919\
 Data File : VF061320.D
 Acq On : 10 Jan 2019 2:14
 Operator : VA/AP
 Sample : K1082-28RE
 Misc : 4.92g/5mL/MSVOA-F/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-2RE

Quant Time: Jan 10 06:04:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.87
34) 1,4-Difluorobenzene	5.82	114	66	50.00	ug/l	0.21
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.79
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.56

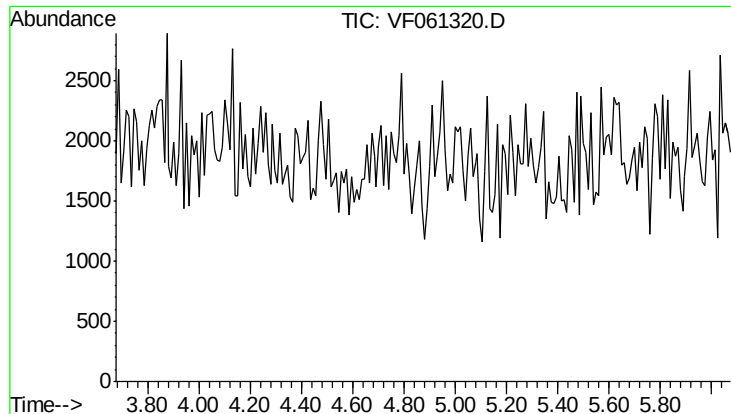
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.77	95	60	91.94	ug/l	0.35
Spiked Amount	50.000		Recovery	=	183.88%	

Target Compounds

						Qvalue
36) 1,1-Dichloropropene	4.54	75	69	89.527	ug/l #	42
37) Ethyl Acetate	4.28	43	132	470.308	ug/l #	1
40) Benzene	4.81	78	85	47.239	ug/l #	51
41) Methacrylonitrile	4.91	41	76	484.896	ug/l #	24
43) Isopropyl Acetate	7.23	43	282	761.036	ug/l #	45
45) 1,2-Dichloropropane	6.60	63	66	144.238	ug/l #	43
47) Bromodichloromethane	6.68	83	64	91.596	ug/l #	25
48) Methyl methacrylate	6.96	41	149	619.493	ug/l #	21
51) 4-Methyl-2-Pentanone	8.55	43	180	643.574	ug/l #	68
53) t-1,3-Dichloropropene	8.50	75	82	149.439	ug/l #	44
54) cis-1,3-Dichloropropene	7.68	75	95	130.575	ug/l #	29
56) Ethyl methacrylate	8.87	69	62	171.409	ug/l #	20
57) 1,3-Dichloropropane	9.22	76	78	136.182	ug/l #	41
58) 2-Chloroethyl Vinyl ether	7.52	63	63	4087.144	ug/l #	56
59) 2-Hexanone	9.90	43	182	918.518	ug/l #	27

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



#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.87 min

Lab File: VF061320.D

Acq: 10 Jan 2019 2:14

Tot Ion: 168

Sig Exp Ratio

168 100

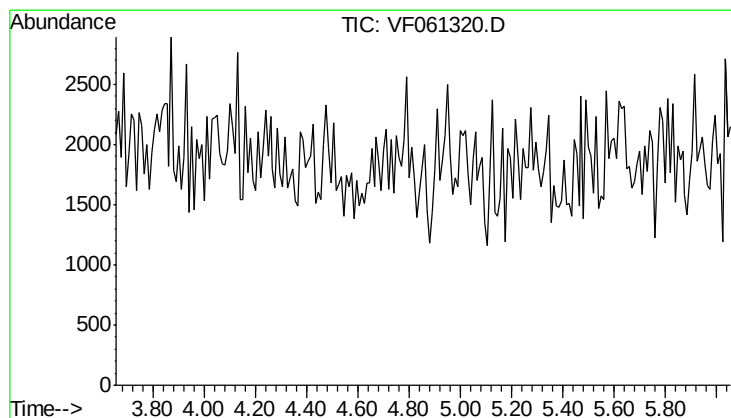
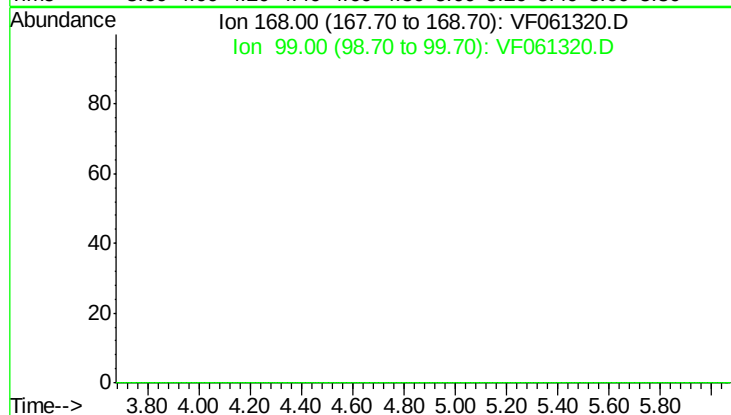
99 65.9

Instrument :

MSVOA_F

ClientSampleId :

SP-1-2RE



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 4.85 min

Lab File: VF061320.D

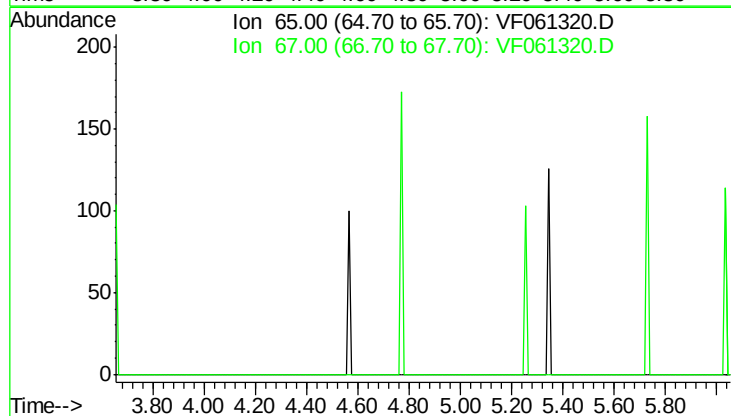
Acq: 10 Jan 2019 2:14

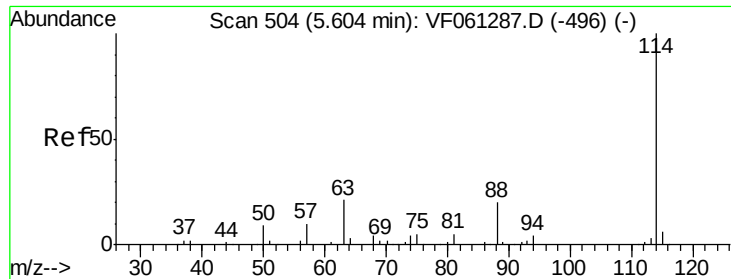
Tgt Ion: 65

Sig Exp Ratio

65 100

67 49.1

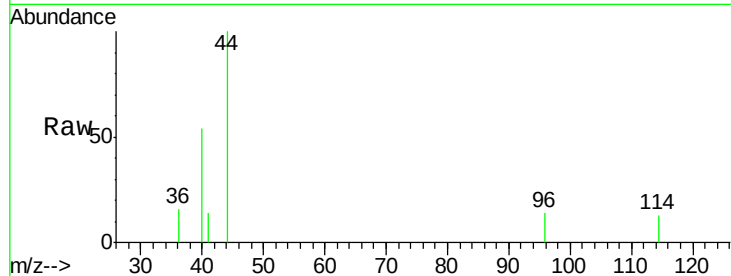




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.82 min Scan# 526
 Delta R.T. 0.21 min
 Lab File: VF061320.D
 Acq: 10 Jan 2019 2:14

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-2RE

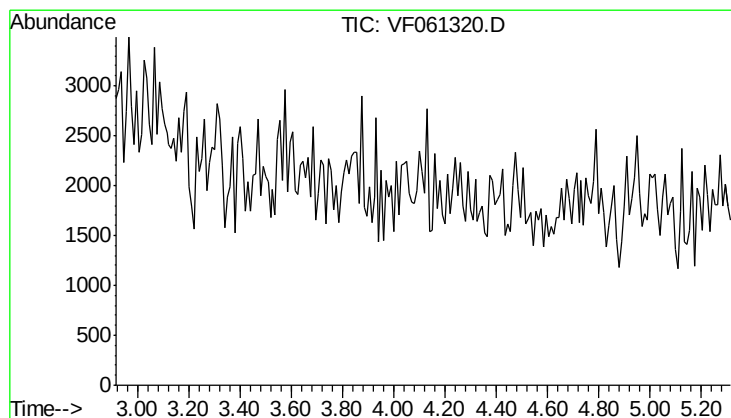
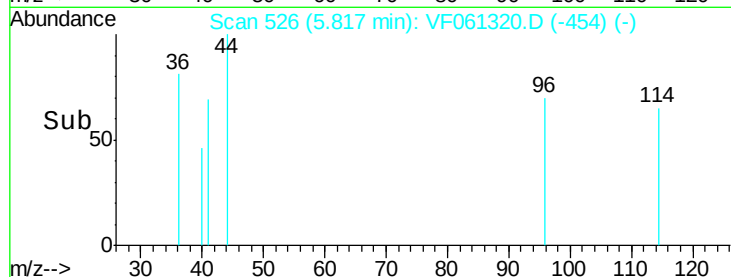
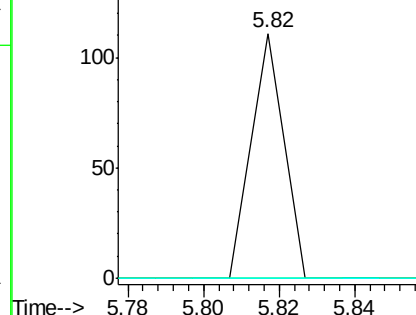
Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	42.8
88	0.0	0.0	40.0



Abundance Ion 114.00 (113.70 to 114.70): VF061320.D

Ion 63.00 (62.70 to 63.70): VF061320.D

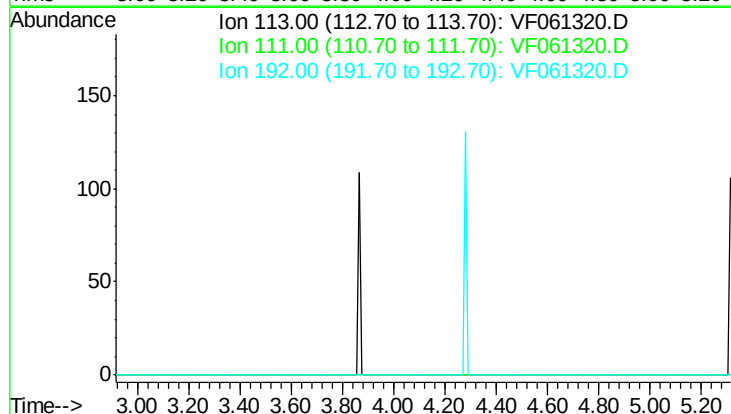
Ion 88.00 (87.70 to 88.70): VF061320.D

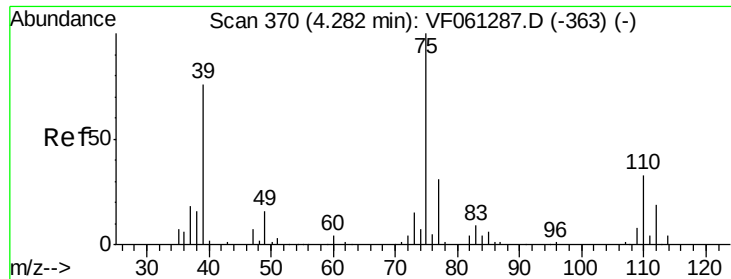


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.11 min

Lab File: VF061320.D
 Acq: 10 Jan 2019 2:14

Tgt Ion	Sig	Exp Ratio
113	100	
111	97.5	
192	13.3	





#36

1,1-Dichloropropene

Concen: 89.527 ug/l

RT: 4.54 min Scan# 397

Delta R.T. 0.26 min

Lab File: VF061320.D

Acq: 10 Jan 2019 2:14

Instrument :

MSVOA_F

ClientSampleId :

SP-1-2RE

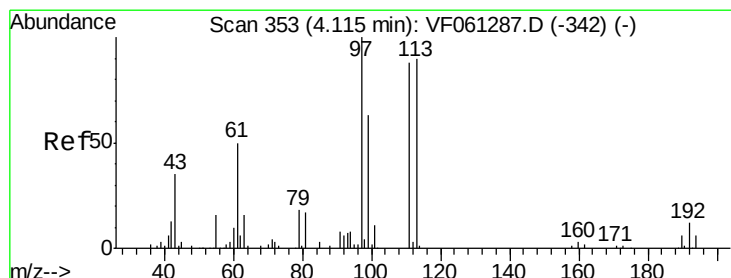
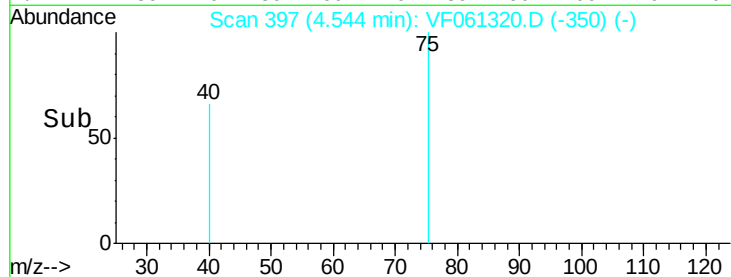
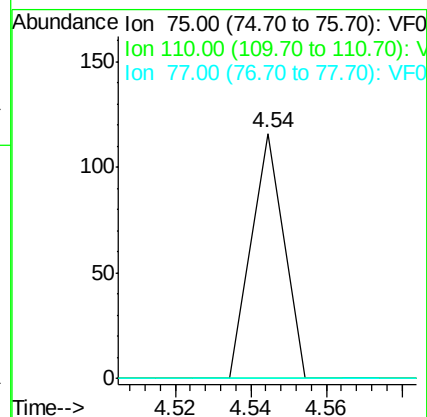
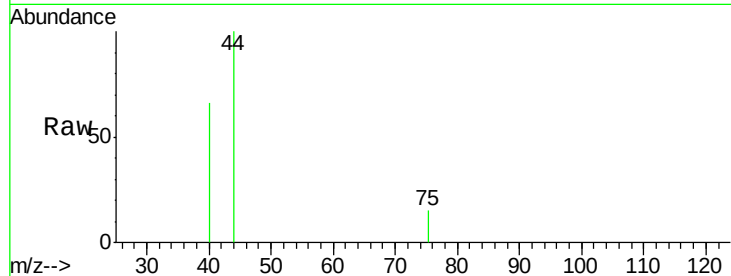
Tot Ion: 75 Resp: 69

Ion Ratio Lower Upper

75 100

110 0.0 16.6 49.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 470.308 ug/l

RT: 4.28 min Scan# 370

Delta R.T. 0.16 min

Lab File: VF061320.D

Acq: 10 Jan 2019 2:14

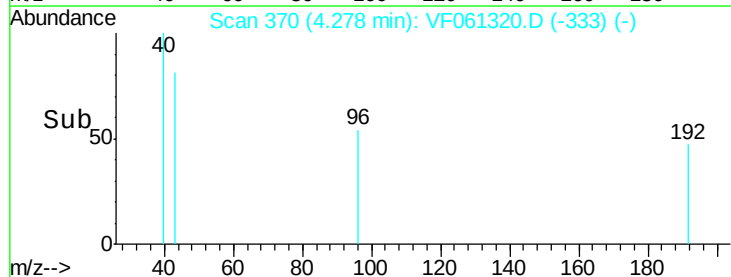
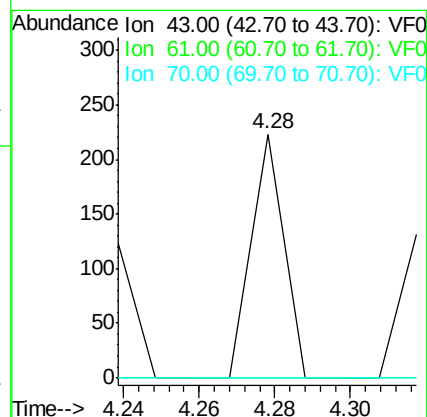
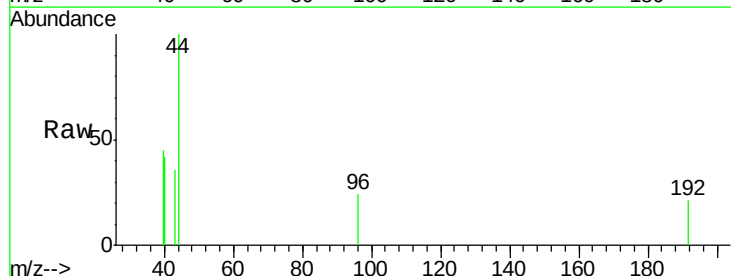
Tgt Ion: 43 Resp: 132

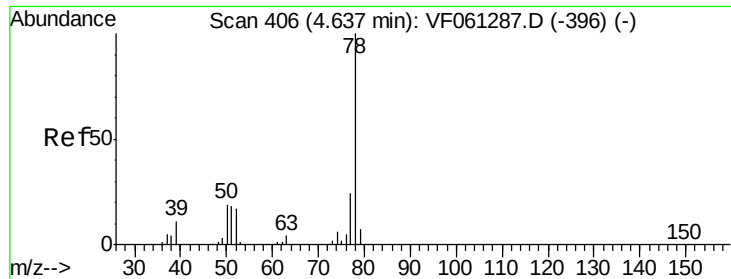
Ion Ratio Lower Upper

43 100

61 0.0 113.3 169.9#

70 0.0 9.4 14.0#





#40

Benzene

Concen: 47.239 ug/l

RT: 4.81 min Scan# 424

Delta R.T. 0.17 min

Lab File: VF061320.D

Acq: 10 Jan 2019 2:14

Instrument :

MSVOA_F

ClientSampleId :

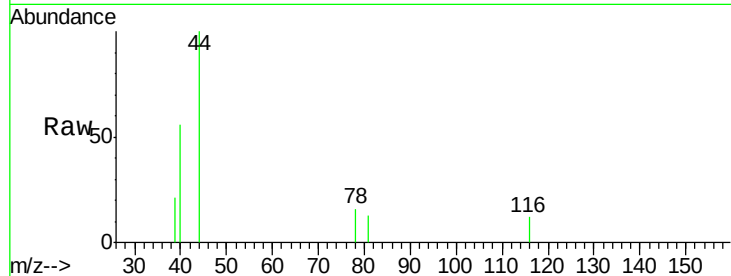
SP-1-2RE

Tot Ion: 78 Resp: 85

Ion Ratio Lower Upper

78 100

77 0.0 19.1 28.7#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

4.81

150

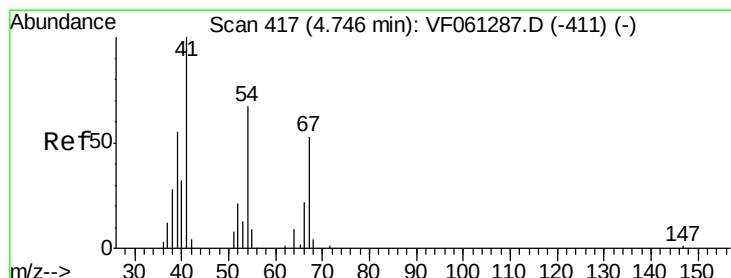
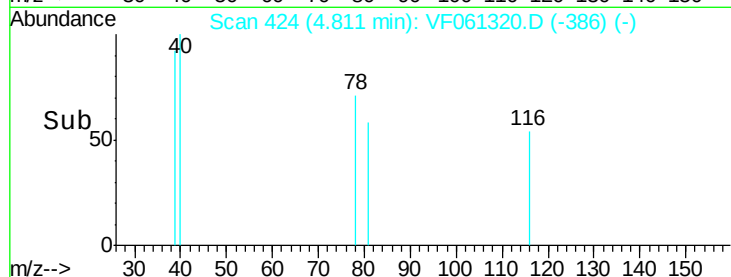
100

50

0

4.78 4.80 4.82 4.84

Time-->



#41

Methacrylonitrile

Concen: 484.896 ug/l

RT: 4.91 min Scan# 434

Delta R.T. 0.16 min

Lab File: VF061320.D

Acq: 10 Jan 2019 2:14

Tgt Ion: 41 Resp: 76

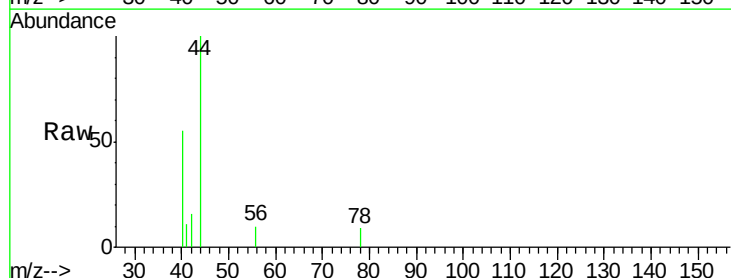
Ion Ratio Lower Upper

41 100

39 0.0 52.7 79.1#

67 0.0 41.4 62.2#

52 0.0 33.0 49.4#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

250

200

150

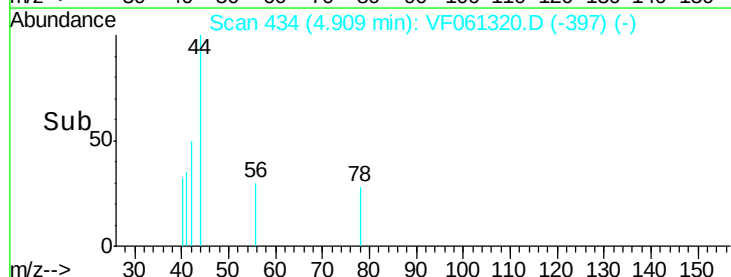
100

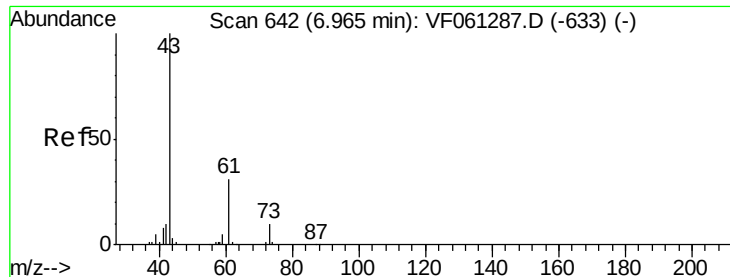
50

0

4.88 4.90 4.92 4.94

Time-->





#43

Isopropyl Acetate

Concen: 761.036 ug/l

RT: 7.23 min Scan# 669

Delta R.T. 0.26 min

Lab File: VF061320.D

Acq: 10 Jan 2019 2:14

Instrument :

MSVOA_F

ClientSampleId :

SP-1-2RE

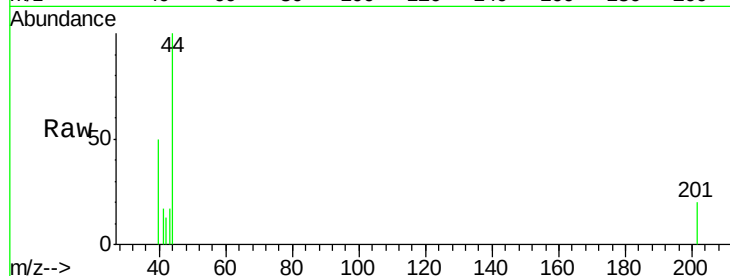
Tot Ion: 43 Resp: 282

Ion Ratio Lower Upper

43 100

61 0.0 24.3 36.5#

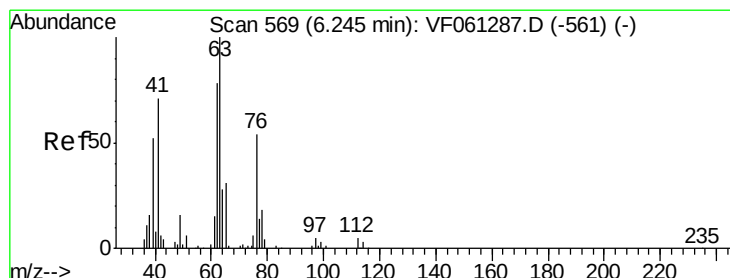
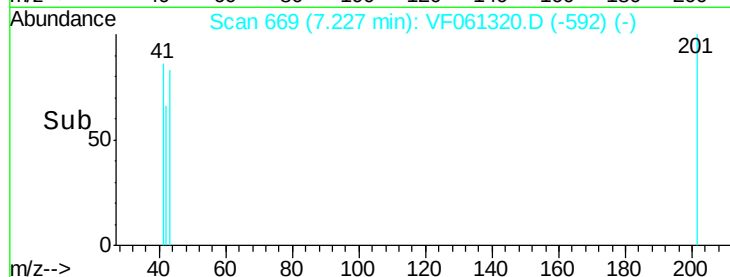
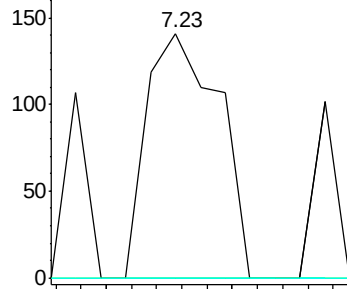
87 0.0 0.2 0.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#45

1,2-Dichloropropane

Concen: 144.238 ug/l

RT: 6.60 min Scan# 605

Delta R.T. 0.35 min

Lab File: VF061320.D

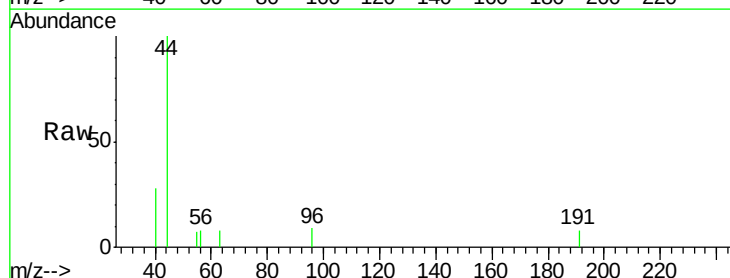
Acq: 10 Jan 2019 2:14

Tgt Ion: 63 Resp: 66

Ion Ratio Lower Upper

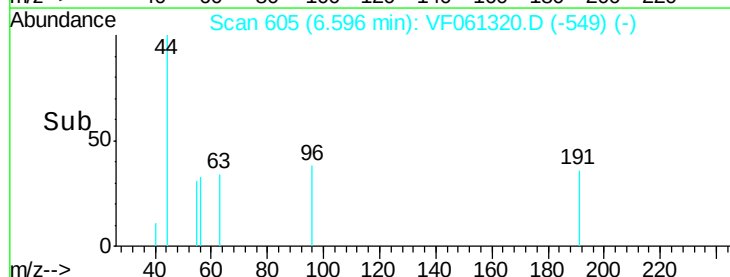
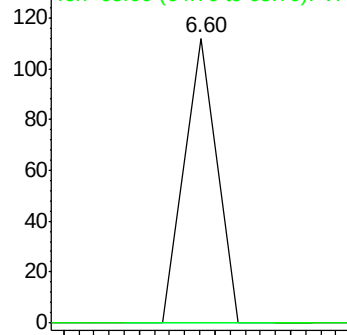
63 100

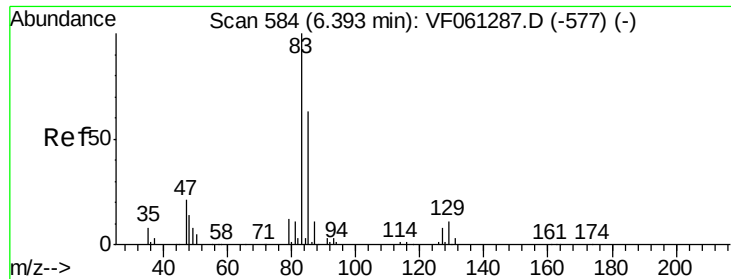
65 0.0 25.1 37.7#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0





#47

Bromodichloromethane

Concen: 91.596 ug/l

RT: 6.68 min Scan# 613

Delta R.T. 0.28 min

Lab File: VF061320.D

Acq: 10 Jan 2019 2:14

Instrument :

MSVOA_F

ClientSampled :

SP-1-2RE

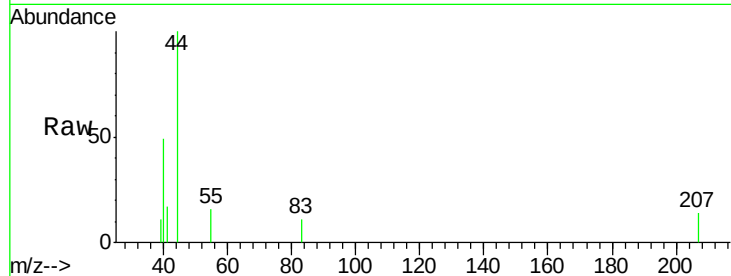
Tot Ion: 83 Resp: 64

Ion Ratio Lower Upper

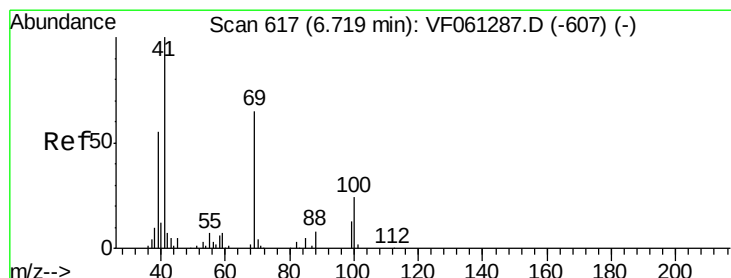
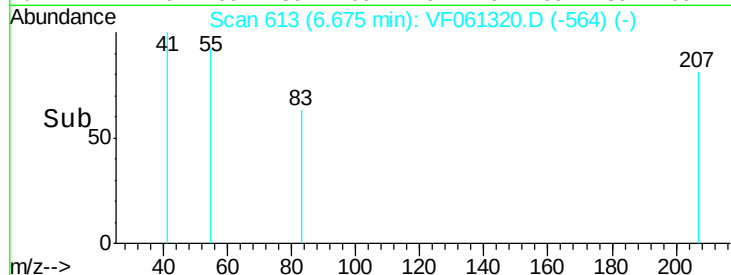
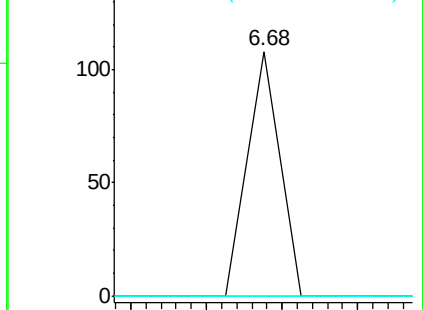
83 100

85 0.0 50.4 75.6#

127 0.0 6.4 9.6#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 619.493 ug/l

RT: 6.96 min Scan# 642

Delta R.T. 0.24 min

Lab File: VF061320.D

Acq: 10 Jan 2019 2:14

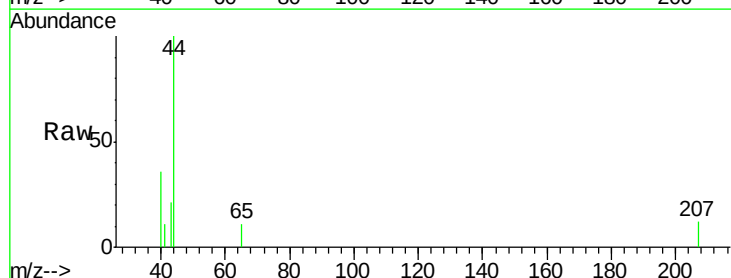
Tgt Ion: 41 Resp: 149

Ion Ratio Lower Upper

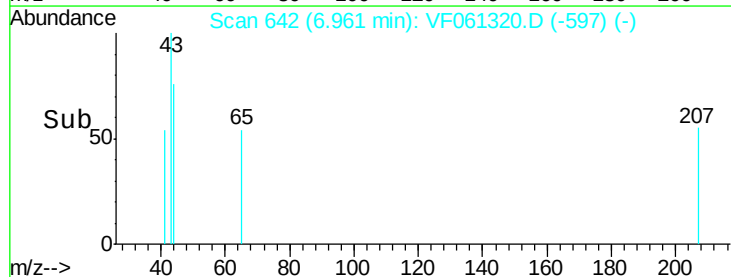
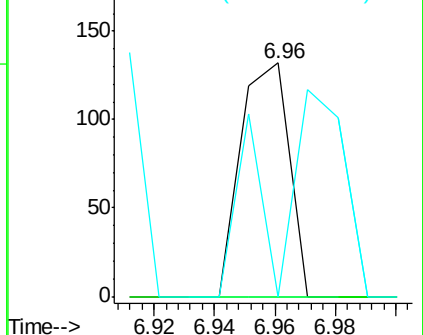
41 100

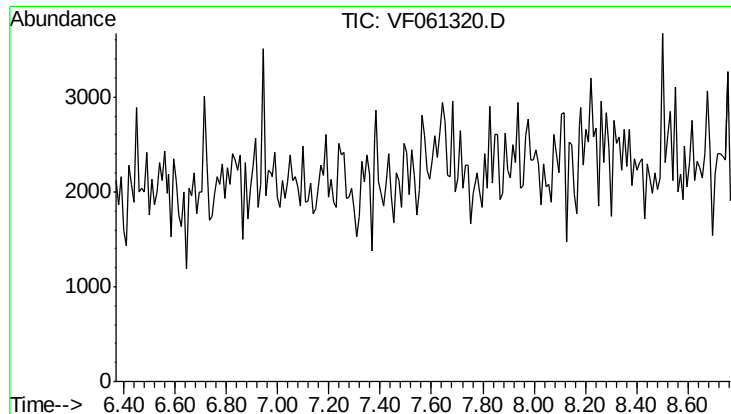
69 0.0 51.5 77.3#

39 0.0 44.1 66.1#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0



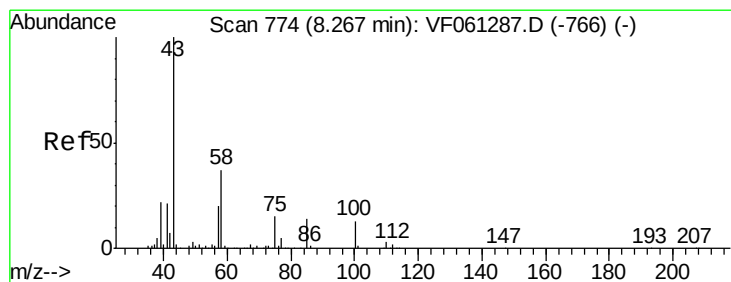
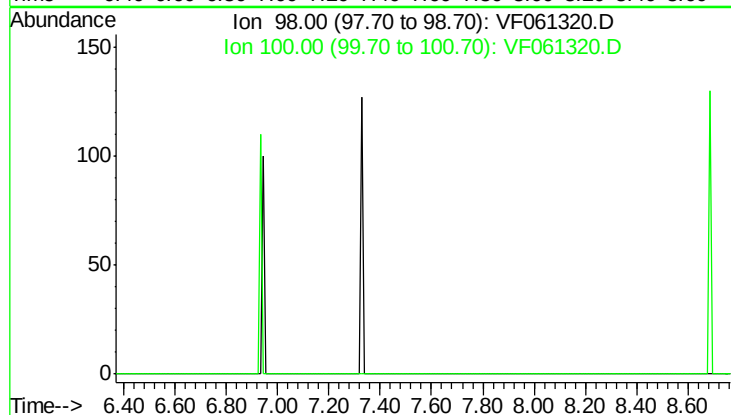


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.57 min

Lab File: VF061320.D
Acq: 10 Jan 2019 2:14

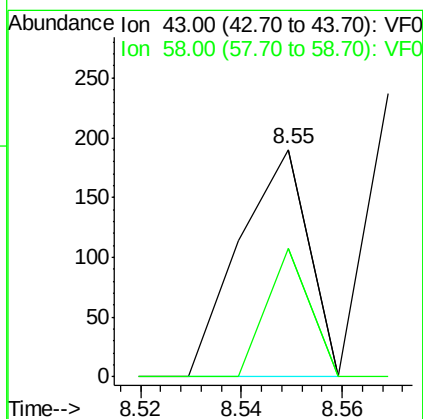
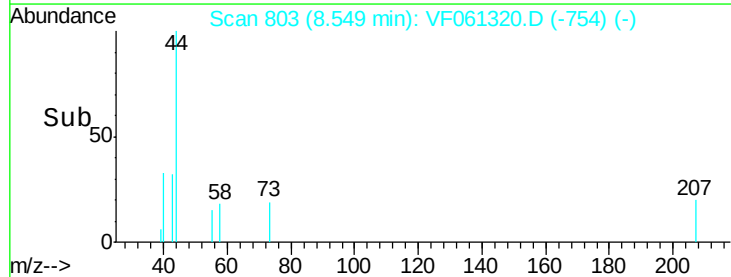
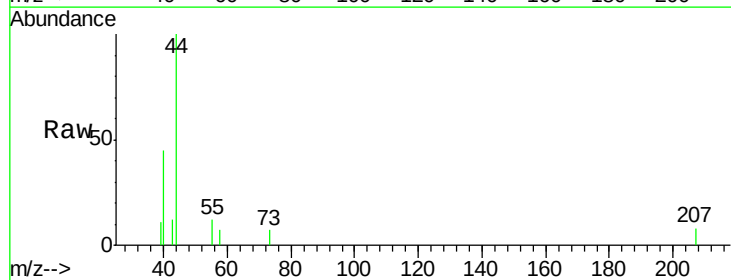
Instrument :
MSVOA_F
ClientSampleId :
SP-1-2RE

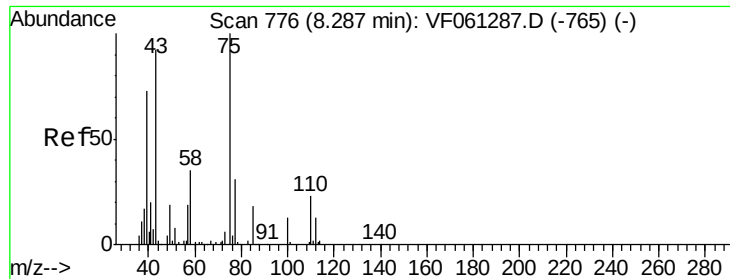
Tot Ion: 98
Sig Exp Ratio
98 100
100 69.5



#51
4-Methyl-2-Pentanone
Concen: 643.574 ug/l
RT: 8.55 min Scan# 803
Delta R.T. 0.28 min
Lab File: VF061320.D
Acq: 10 Jan 2019 2:14

Tgt Ion: 43 Resp: 180
Ion Ratio Lower Upper
43 100
58 56.3 29.6 44.4#

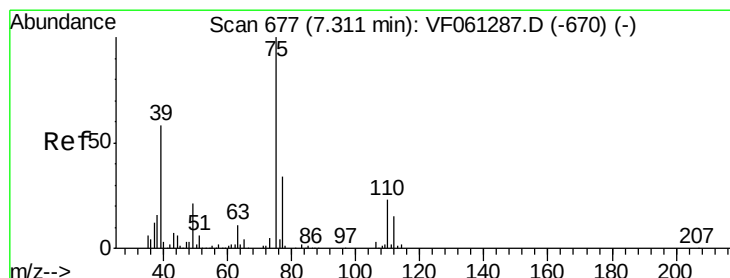
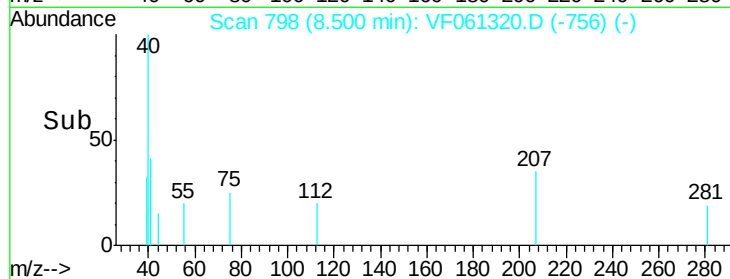
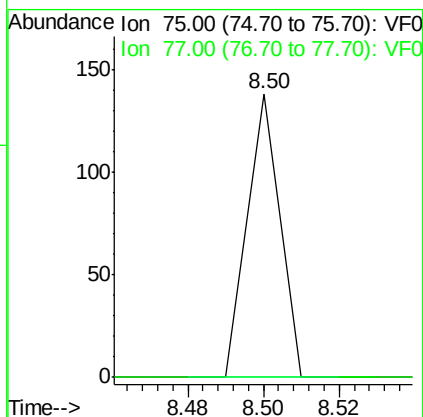
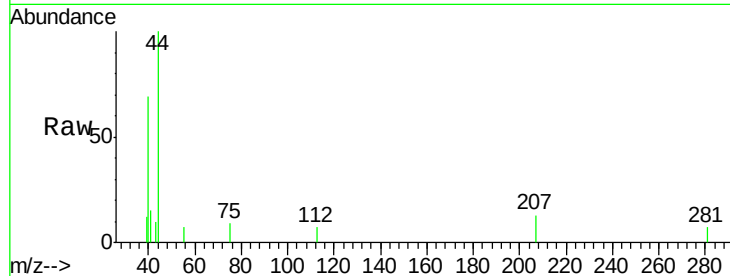




#53
 t-1,3-Dichloropropene
 Concen: 149.439 ug/l
 RT: 8.50 min Scan# 798
 Delta R.T. 0.21 min
 Lab File: VF061320.D
 Acq: 10 Jan 2019 2:14

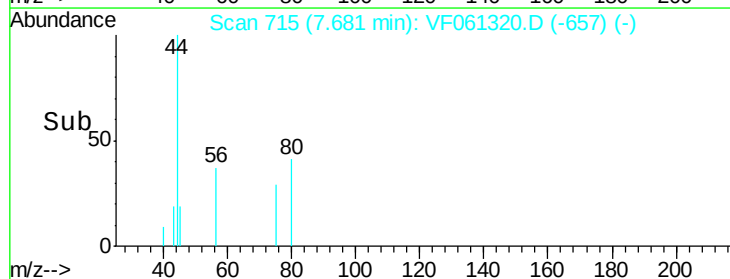
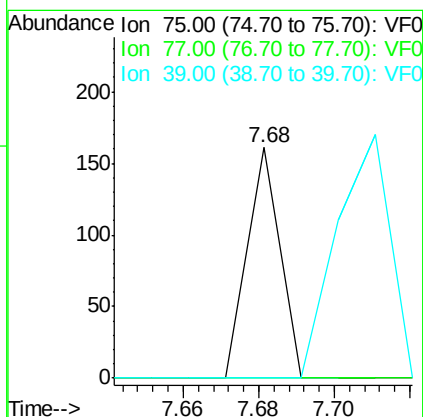
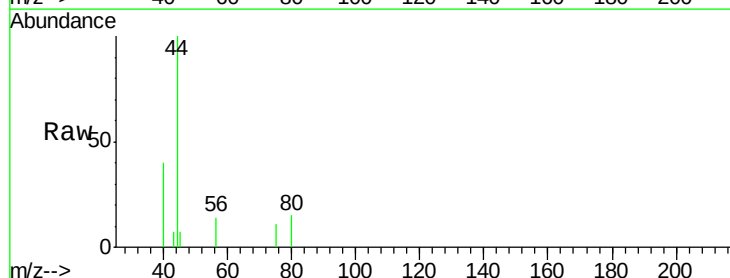
Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-2RE

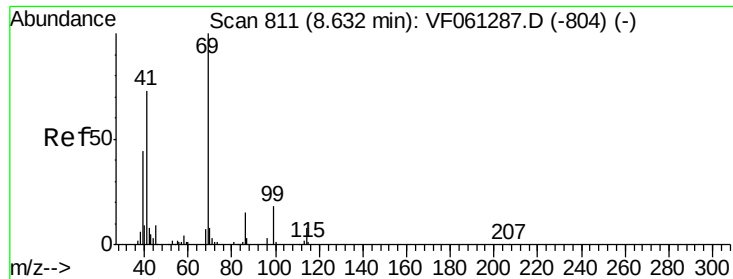
Tot Ion: 75 Resp: 82
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.7 37.1#



#54
 cis-1,3-Dichloropropene
 Concen: 130.575 ug/l
 RT: 7.68 min Scan# 715
 Delta R.T. 0.37 min
 Lab File: VF061320.D
 Acq: 10 Jan 2019 2:14

Tgt Ion: 75 Resp: 95
 Ion Ratio Lower Upper
 75 100
 77 0.0 27.3 40.9#
 39 0.0 46.3 69.5#





#56

Ethyl methacrylate

Concen: 171.409 ug/l

RT: 8.87 min Scan# 836

Delta R.T. 0.24 min

Lab File: VF061320.D

Acq: 10 Jan 2019 2:14

Instrument :

MSVOA_F

ClientSampleId :

SP-1-2RE

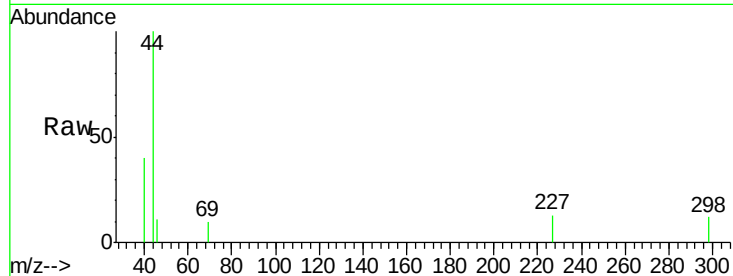
Tot Ion: 69 Resp: 62

Ion Ratio Lower Upper

69 100

41 0.0 59.0 88.4#

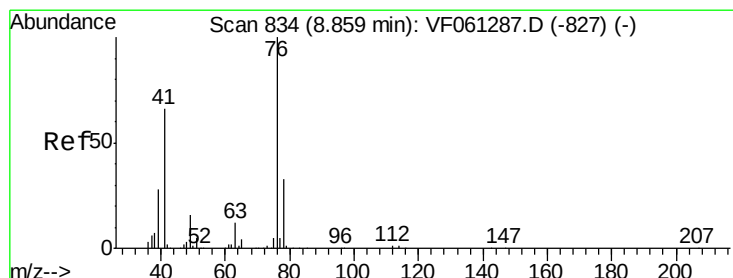
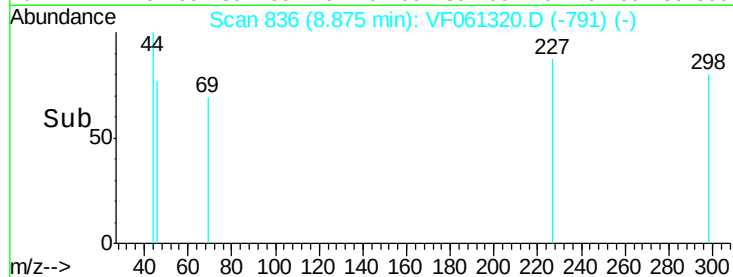
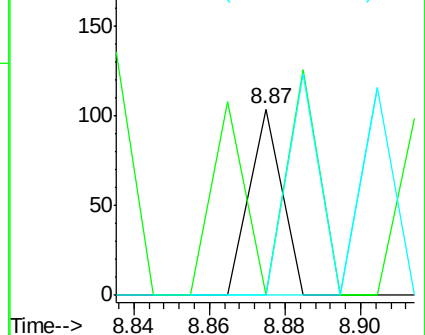
39 0.0 35.3 52.9#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#57

1,3-Dichloropropane

Concen: 136.182 ug/l

RT: 9.22 min Scan# 871

Delta R.T. 0.36 min

Lab File: VF061320.D

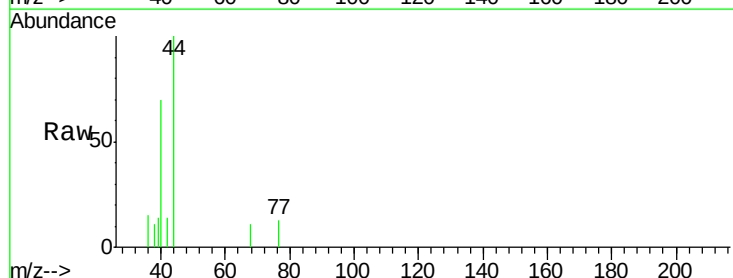
Acq: 10 Jan 2019 2:14

Tgt Ion: 76 Resp: 78

Ion Ratio Lower Upper

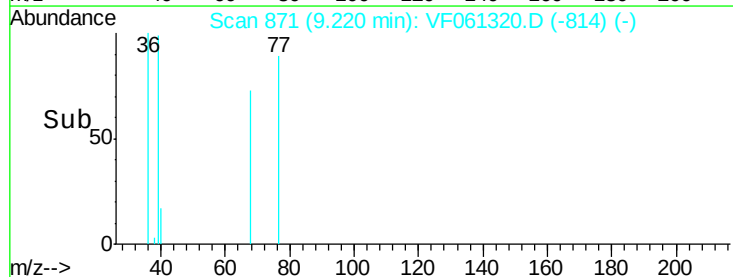
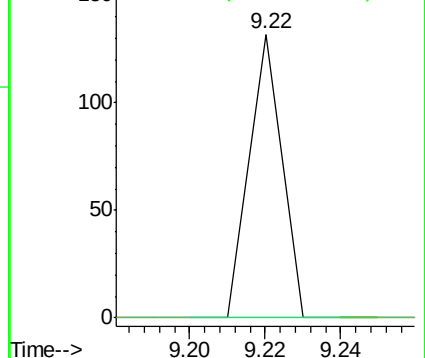
76 100

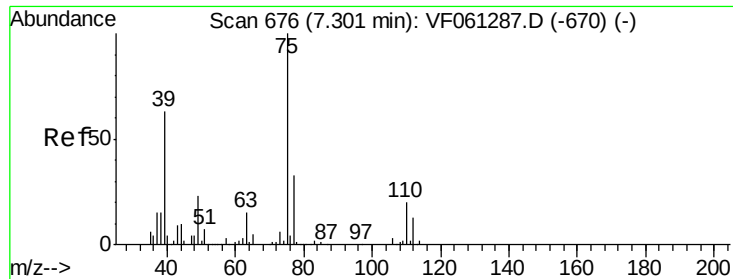
78 0.0 26.8 40.2#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

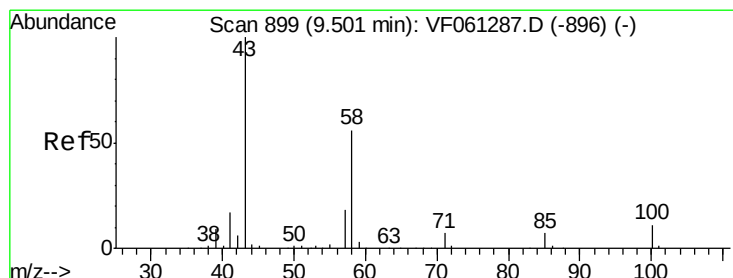
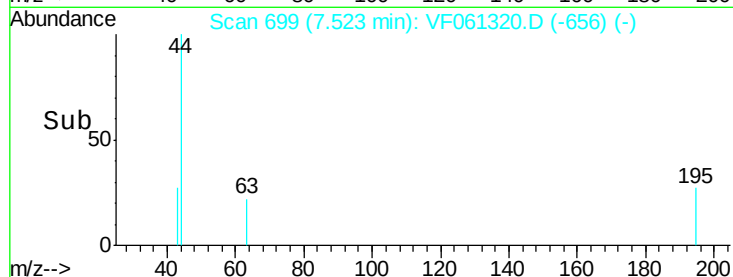
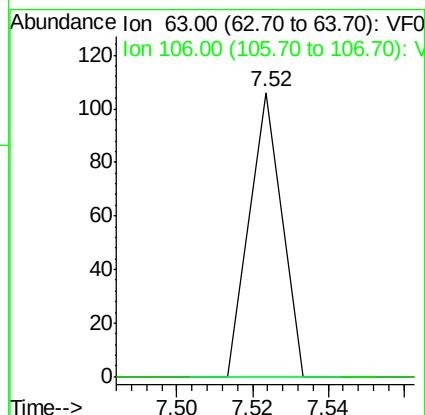
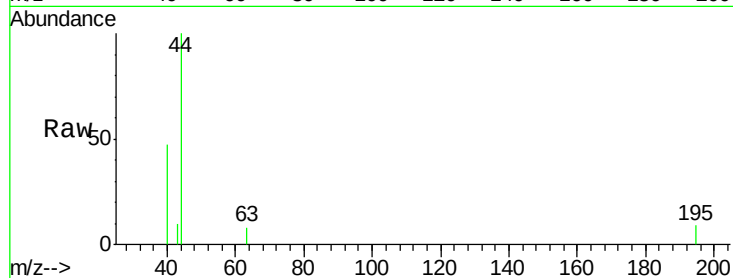




#58
 2-Chloroethyl Vinyl ether
 Concen: 4087.144 ug/l
 RT: 7.52 min Scan# 699
 Delta R.T. 0.22 min
 Lab File: VF061320.D
 Acq: 10 Jan 2019 2:14

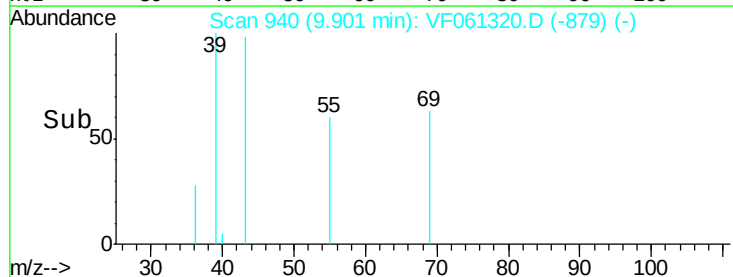
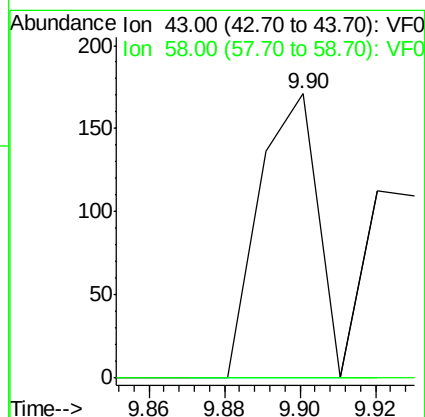
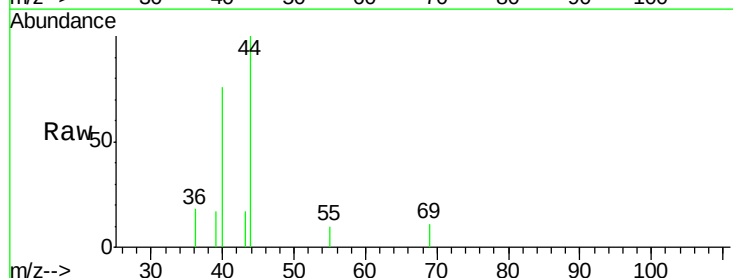
Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-2RE

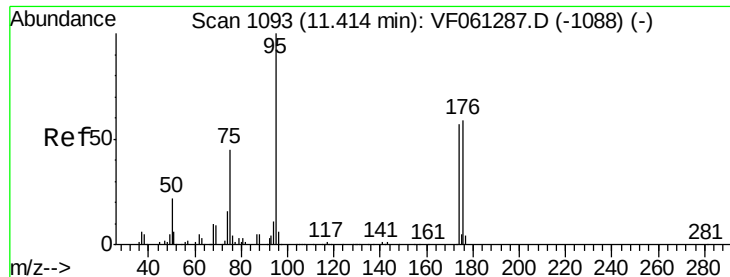
Tot Ion: 63 Resp: 63
 Ion Ratio Lower Upper
 63 100
 106 0.0 16.5 24.7#



#59
 2-Hexanone
 Concen: 918.518 ug/l
 RT: 9.90 min Scan# 940
 Delta R.T. 0.40 min
 Lab File: VF061320.D
 Acq: 10 Jan 2019 2:14

Tgt Ion: 43 Resp: 182
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 91.945 ug/l

RT: 11.77 min Scan# 1129

Delta R.T. 0.35 min

Lab File: VF061320.D

Acq: 10 Jan 2019 2:14

Instrument :

MSVOA_F

ClientSampleId :

SP-1-2RE

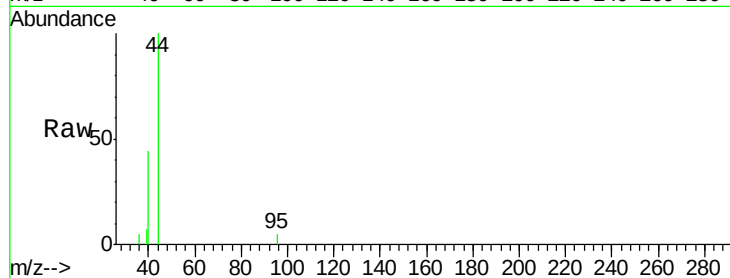
Tot Ion: 95 Resp: 60

Ion Ratio Lower Upper

95 100

174 0.0 0.0 114.2

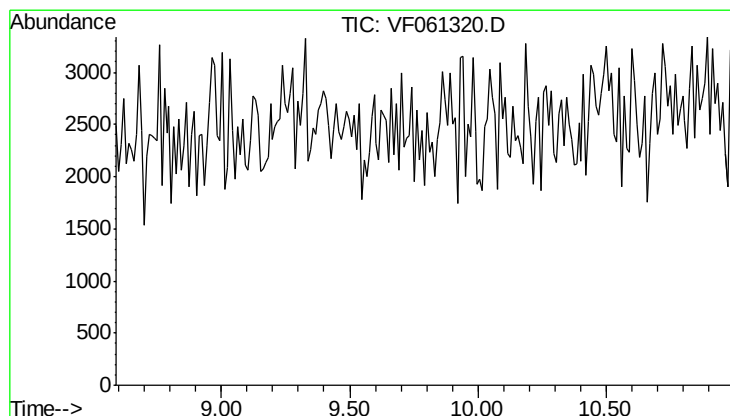
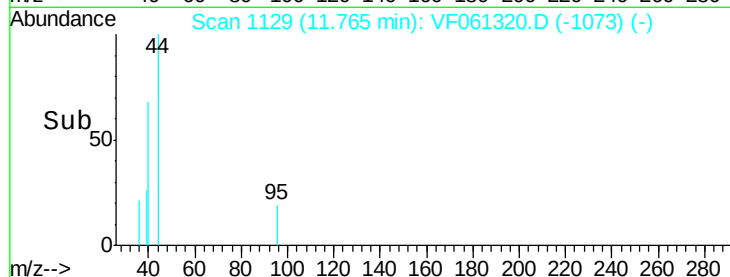
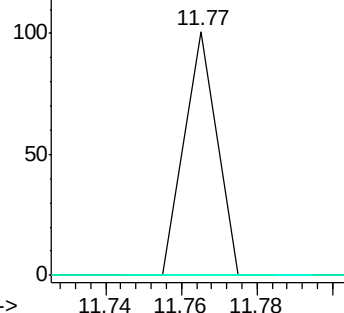
176 0.0 0.0 117.8



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: 0.000 ug/l

Expected RT: 9.79 min

Lab File: VF061320.D

Acq: 10 Jan 2019 2:14

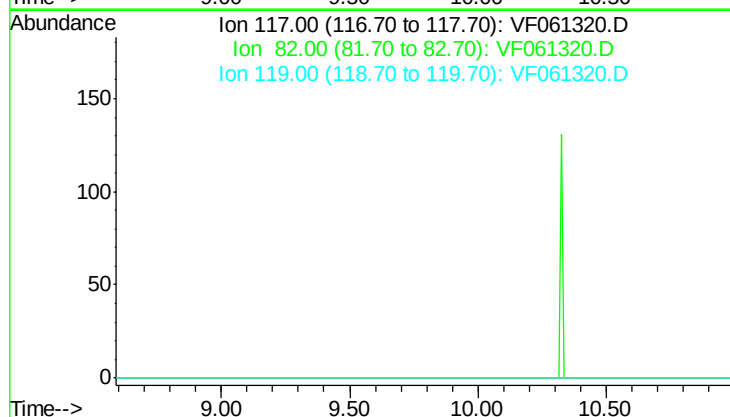
Tgt Ion: 117

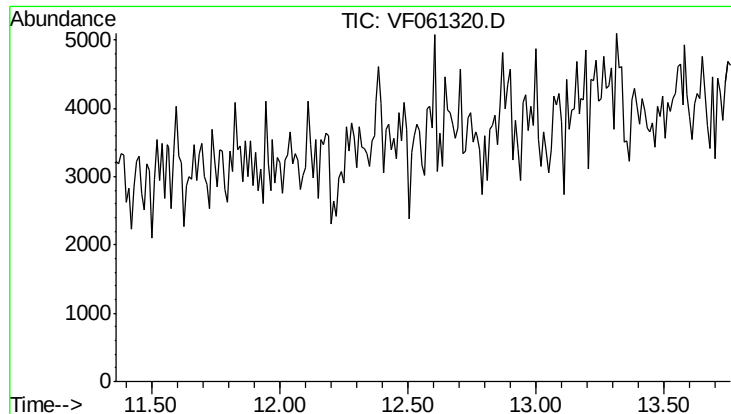
Sig Exp Ratio

117 100

82 56.6

119 31.7





#72
 1,4-Dichlorobenzene-d4
 Concen: 0.000 ug/l
 Expected RT: 12.56 min
 Lab File: VF061320.D
 Acq: 10 Jan 2019 2:14

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-2RE

Tot Ion	152
Sig	Exp Ratio
152	100
115	59.3
150	157.7

