

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062118\
 Data File : VF059277.D
 Acq On : 21 Jun 2018 23:13
 Operator : VA/AP
 Sample : J3570-04RE
 Misc : 5.06µ/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 22 07:08:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062118S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 22 05:22:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	67447	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	102054	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	91887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	52467	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	42765	44.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.34%	
35) Dibromofluoromethane	4.29	113	219	0.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	0.52%	
50) Toluene-d8	7.70	98	92161	42.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.40%	
62) 4-Bromofluorobenzene	11.50	95	51619	42.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.24%	

Target Compounds

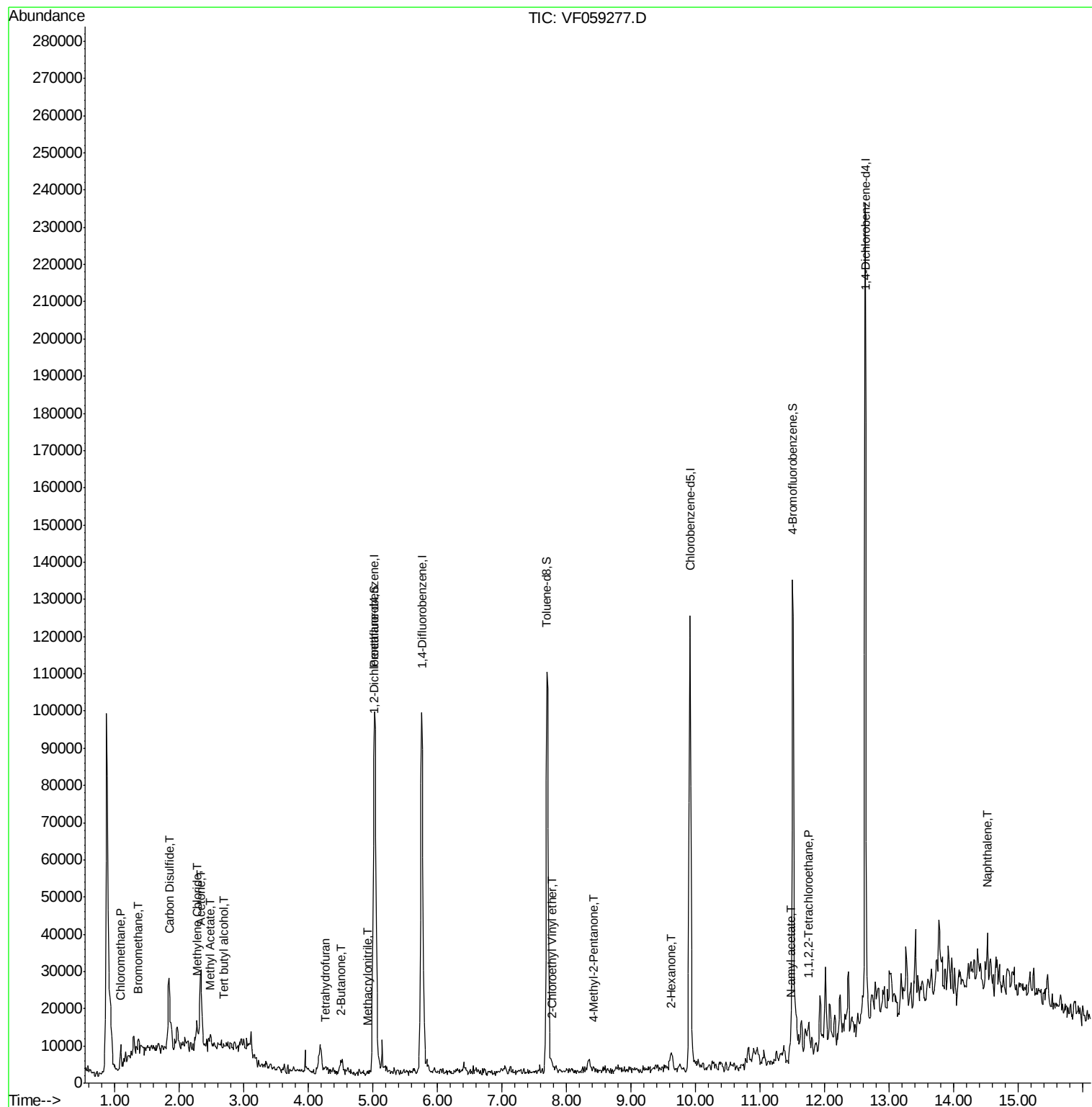
						Qvalue
3) Chloromethane	1.10	50	758	1.53	ug/l #	40
5) Bromomethane	1.37	94	940	4.14	ug/l #	1
11) Tert butyl alcohol	2.69	59	240	4.25	ug/l #	1
13) Acrolein	2.15	56	239	Below	Cal	90
15) Acrylonitrile	3.11	53	1221	Below	Cal #	67
16) Acetone	2.33	43	35259	154.09	ug/l	95
17) Carbon Disulfide	1.84	76	29693	25.57	ug/l	100
18) Methyl Acetate	2.49	43	2636	6.11	ug/l	98
20) Methylene Chloride	2.27	84	2644	3.93	ug/l #	67
25) 2-Butanone	4.50	43	6294	20.62	ug/l #	90
28) Bromochloromethane	3.78	49	77	Below	Cal #	8
29) Tetrahydrofuran	4.27	42	277	2.02	ug/l #	37
41) Methacrylonitrile	4.91	41	390	1.19	ug/l #	23
51) 4-Methyl-2-Pentanone	8.41	43	1056	1.76	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.79	63	157	2.53	ug/l	100
59) 2-Hexanone	9.62	43	3797	8.00	ug/l	88
74) N-amyl acetate	11.46	43	3196	2.71	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	11.76	83	1833	2.16	ug/l #	25
95) Naphthalene	14.53	128	4281	1.64	ug/l #	92

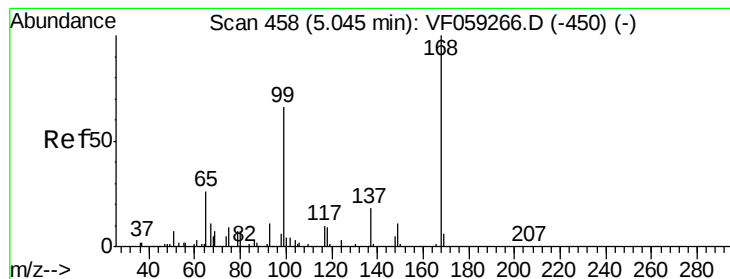
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jun 22 05:22:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

Instrument :

MSVOA_F

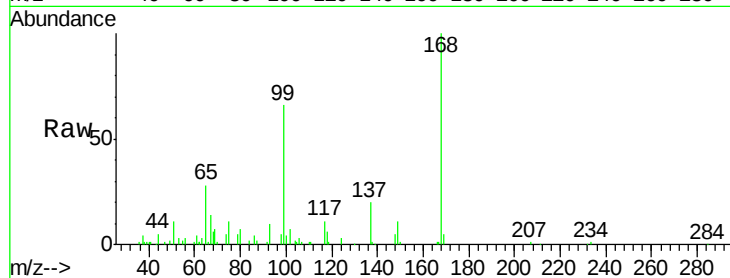
ClientSampled :

Tot Ion:168 Resp: 67447

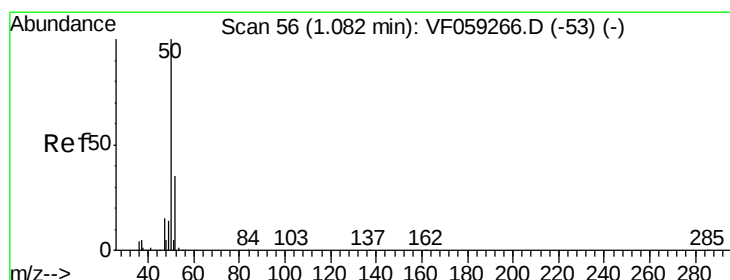
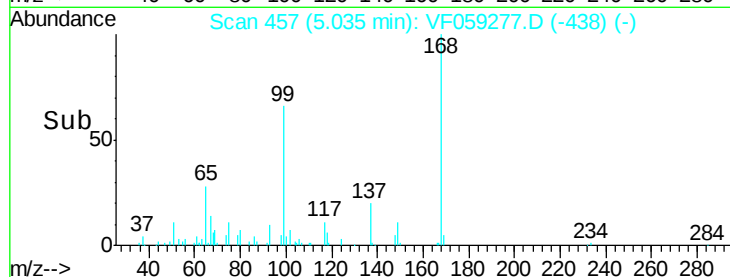
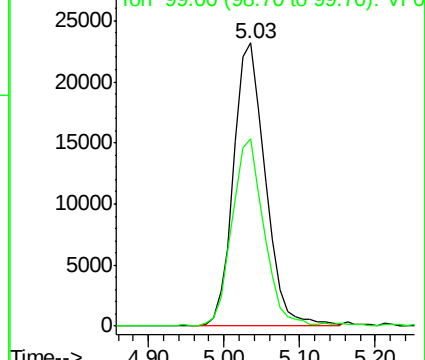
Ion Ratio Lower Upper

168 100

99 66.3 52.6 78.8



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 1.53 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059277.D

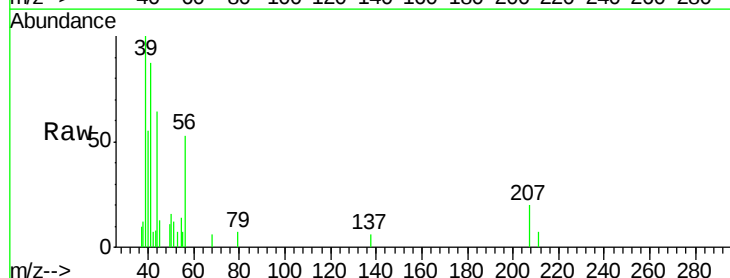
Acq: 21 Jun 2018 23:13

Tgt Ion: 50 Resp: 758

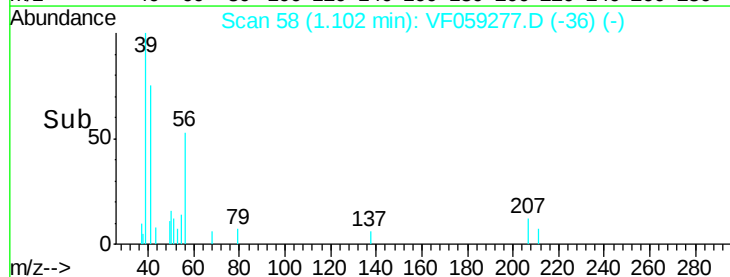
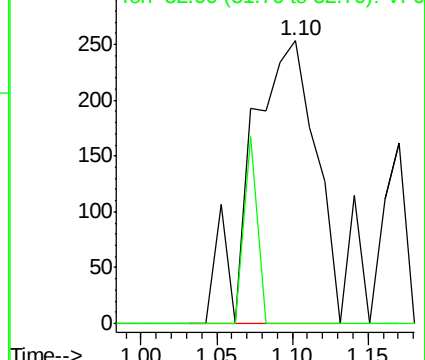
Ion Ratio Lower Upper

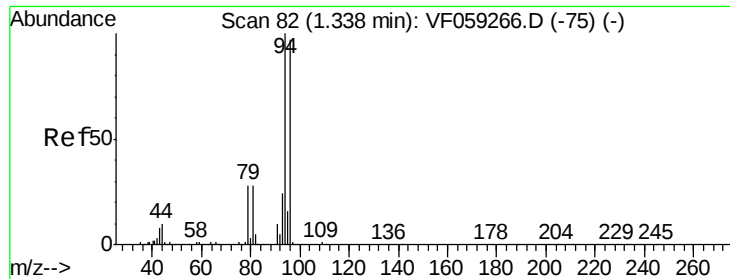
50 100

52 0.0 27.7 41.5#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#5

Bromomethane

Concen: 4.14 ug/l

RT: 1.37 min Scan# 85

Delta R.T. 0.03 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

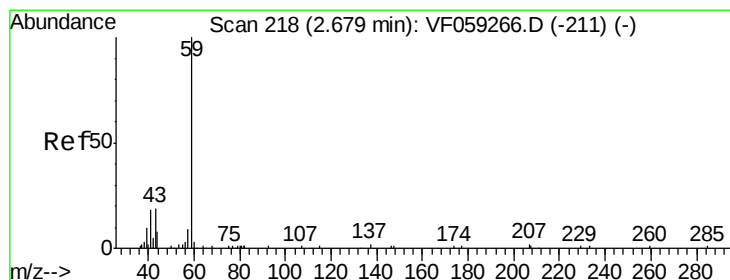
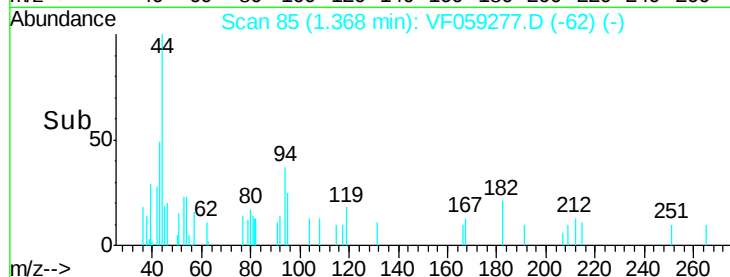
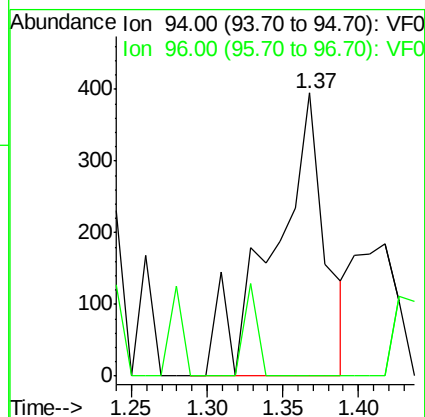
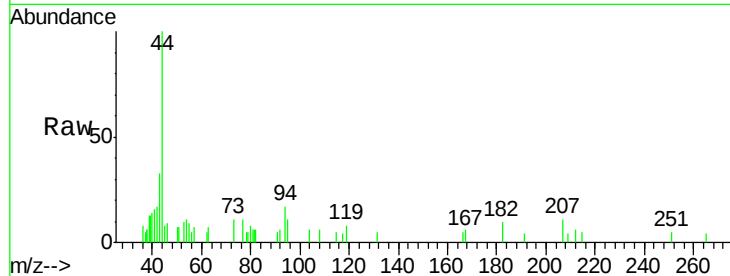
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 940

Ion Ratio Lower Upper

94 100

96 0.0 77.7 116.5#



#11

Tert butyl alcohol

Concen: 4.25 ug/l

RT: 2.69 min Scan# 219

Delta R.T. 0.01 min

Lab File: VF059277.D

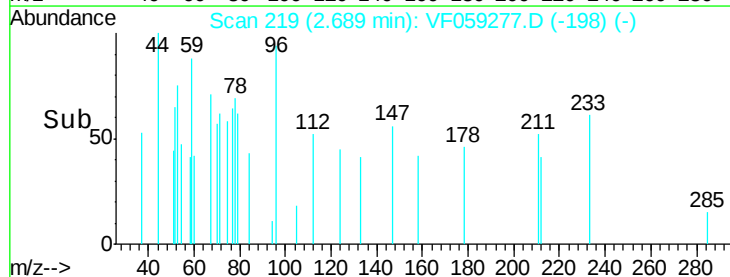
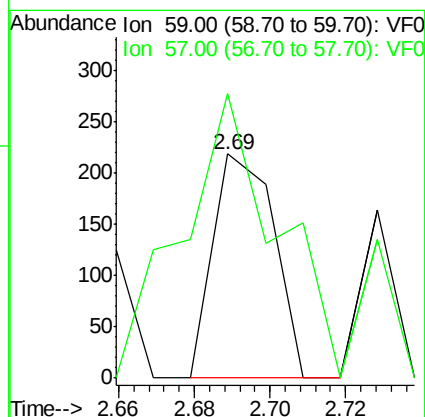
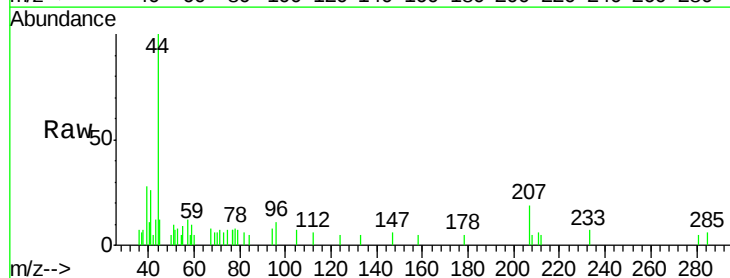
Acq: 21 Jun 2018 23:13

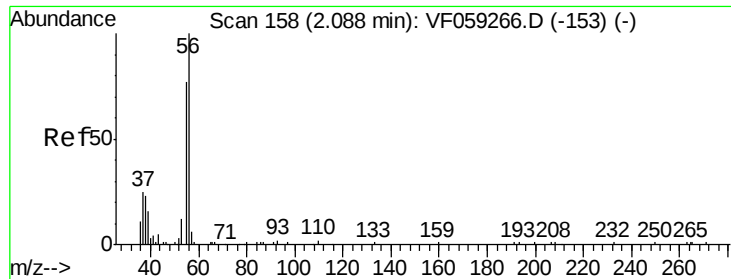
Tgt Ion: 59 Resp: 240

Ion Ratio Lower Upper

59 100

57 127.1 9.2 13.8#

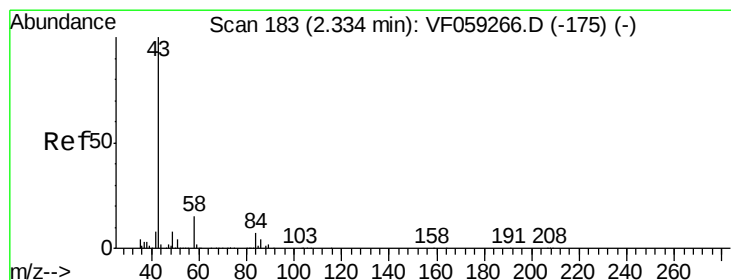
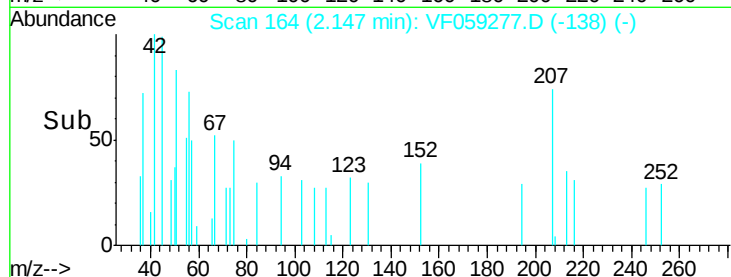
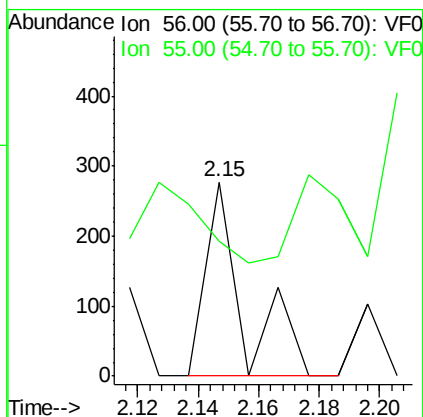
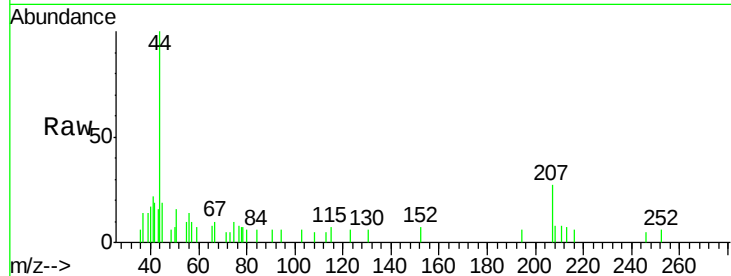




#13
Acrolein
Concen: Below Cal
RT: 2.15 min Scan# 164
Delta R.T. 0.06 min
Lab File: VF059277.D
Acq: 21 Jun 2018 23:13

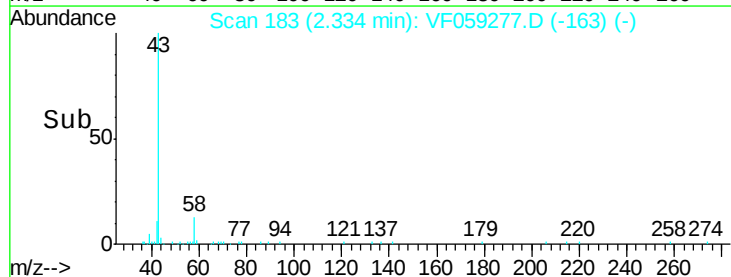
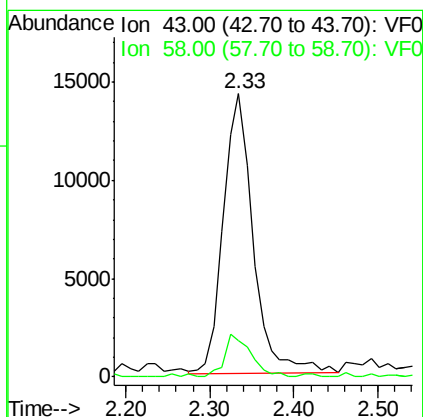
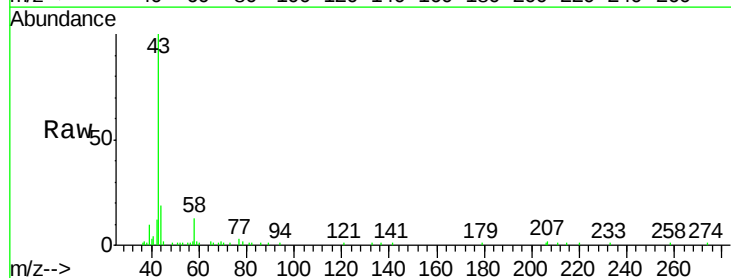
Instrument :
MSVOA_F
ClientSampleId :

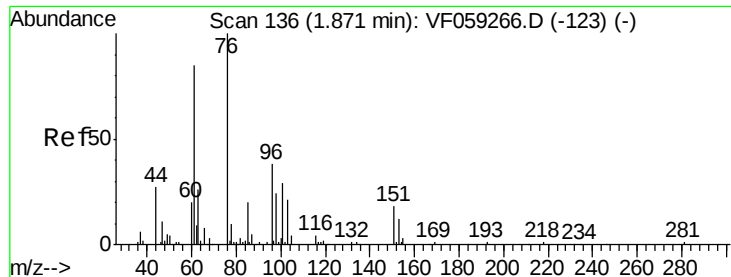
Tot Ion: 56 Resp: 239
Ion Ratio Lower Upper
56 100
55 69.7 63.0 94.6



#16
Acetone
Concen: 154.09 ug/l
RT: 2.33 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF059277.D
Acq: 21 Jun 2018 23:13

Tgt Ion: 43 Resp: 35259
Ion Ratio Lower Upper
43 100
58 13.0 12.1 18.1

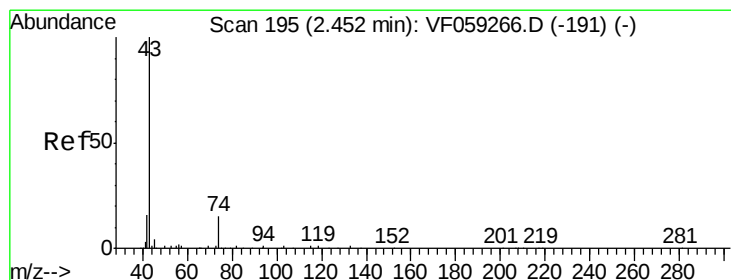
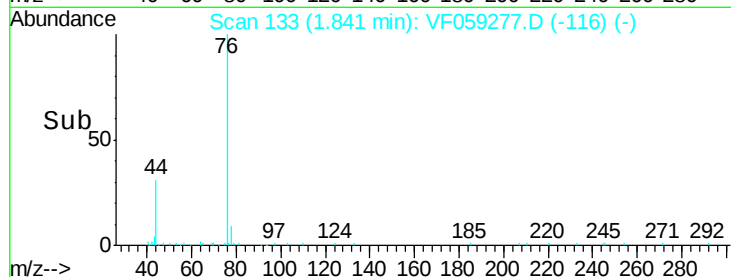
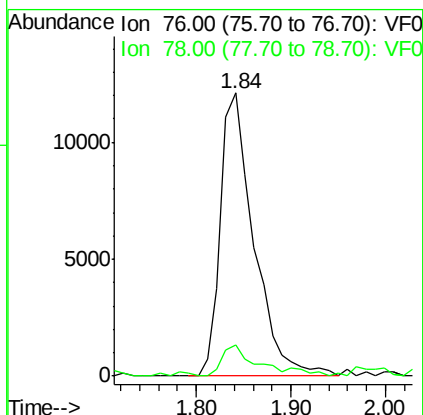
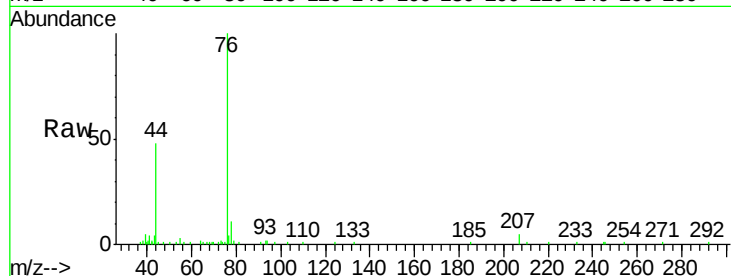




#17
Carbon Disulfide
Concen: 25.57 ug/l
RT: 1.84 min Scan# 133
Delta R.T. -0.03 min
Lab File: VF059277.D
Acq: 21 Jun 2018 23:13

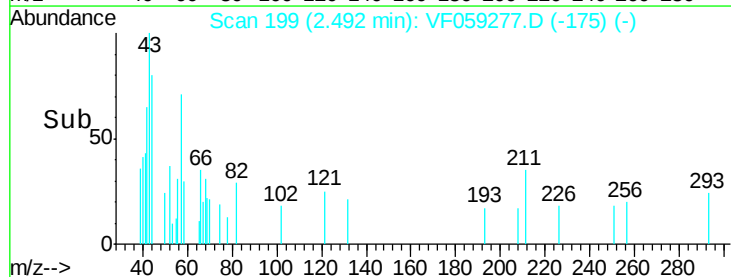
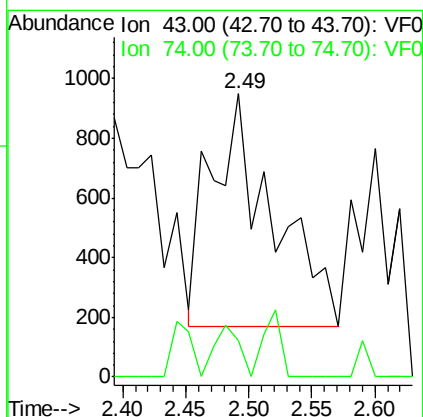
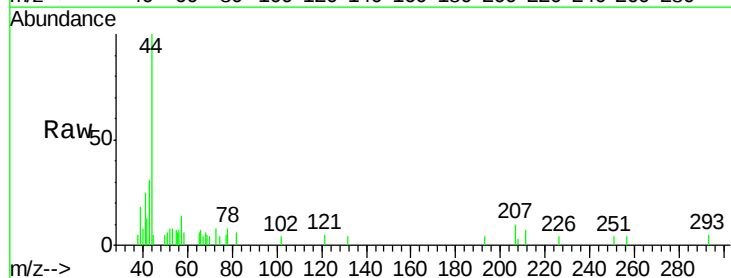
Instrument :
MSVOA_F
ClientSampled :

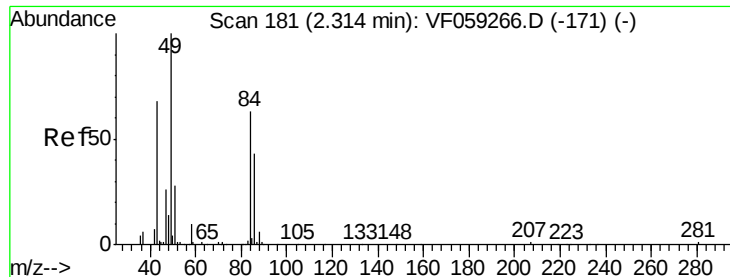
Tot Ion: 76 Resp: 29693
Ion Ratio Lower Upper
76 100
78 10.8 8.6 12.8



#18
Methyl Acetate
Concen: 6.11 ug/l
RT: 2.49 min Scan# 199
Delta R.T. 0.04 min
Lab File: VF059277.D
Acq: 21 Jun 2018 23:13

Tgt Ion: 43 Resp: 2636
Ion Ratio Lower Upper
43 100
74 12.8 11.0 16.4

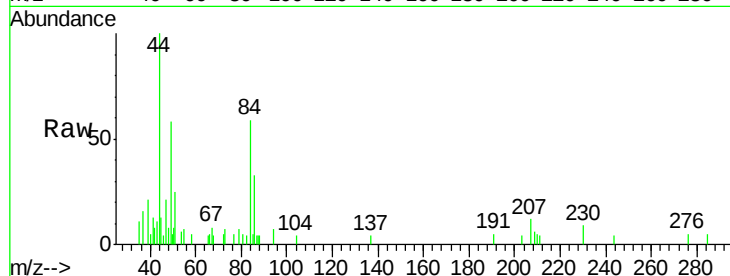




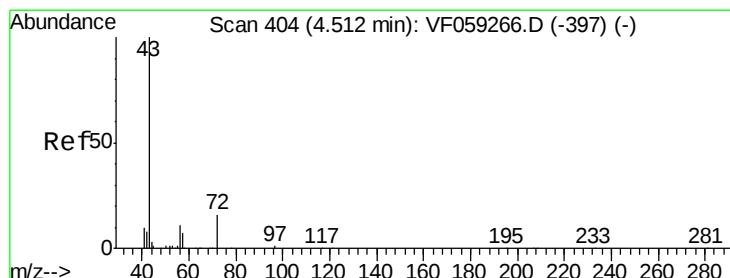
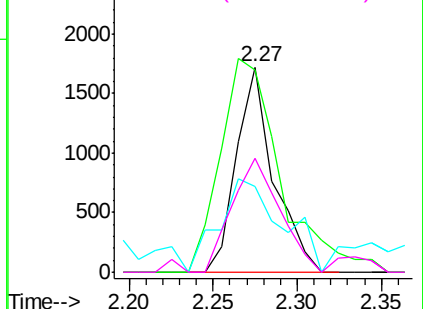
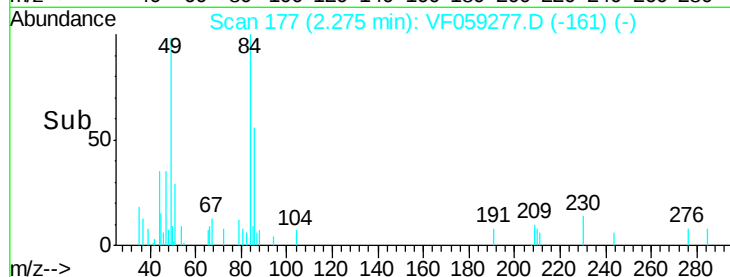
#20
Methvlene Chloride
Concen: 3.93 ug/l
RT: 2.27 min Scan# 177
Delta R.T. -0.04 min
Lab File: VF059277.D
Acq: 21 Jun 2018 23:13

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 2644
Ion Ratio Lower Upper
84 100
49 98.4 130.0 195.0#
51 42.1 36.6 55.0
86 55.8 55.1 82.7

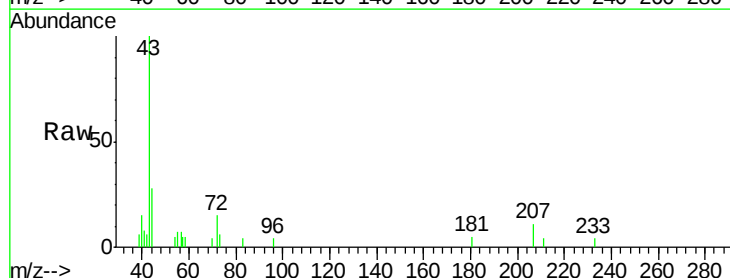


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

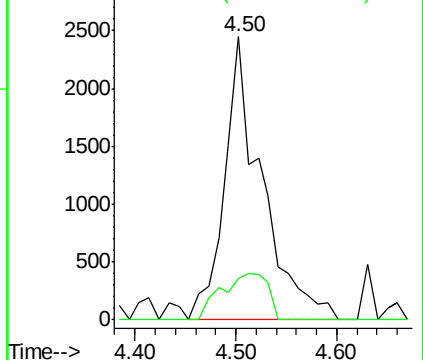
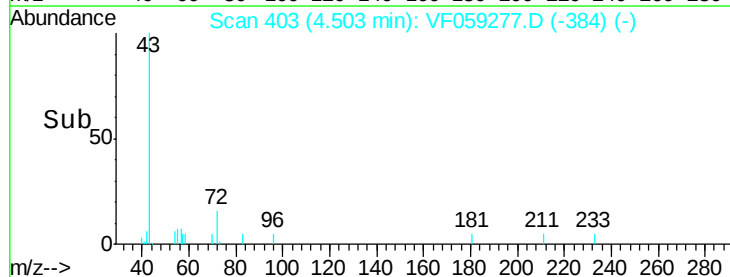


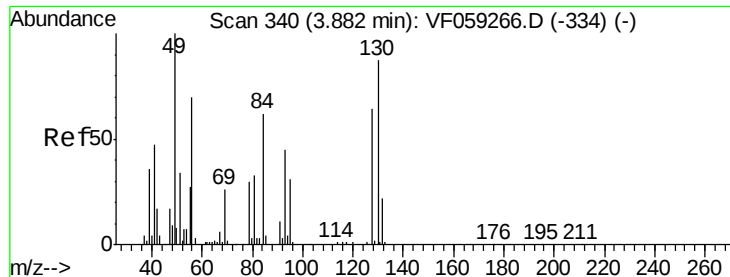
#25
2-Butanone
Concen: 20.62 ug/l
RT: 4.50 min Scan# 403
Delta R.T. -0.01 min
Lab File: VF059277.D
Acq: 21 Jun 2018 23:13

Tgt Ion: 43 Resp: 6294
Ion Ratio Lower Upper
43 100
72 14.5 15.2 22.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#28

Bromochloromethane

Concen: Below Cal

RT: 3.78 min Scan# 330

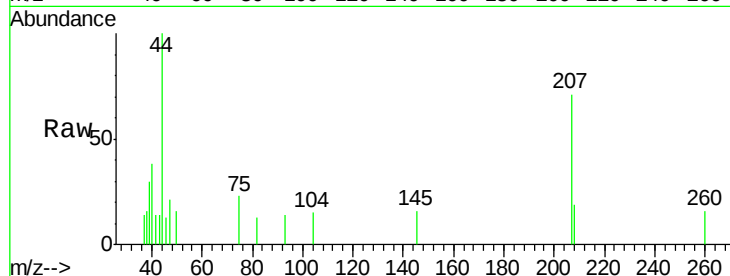
Delta R.T. -0.10 min

Lab File: VF059277.D

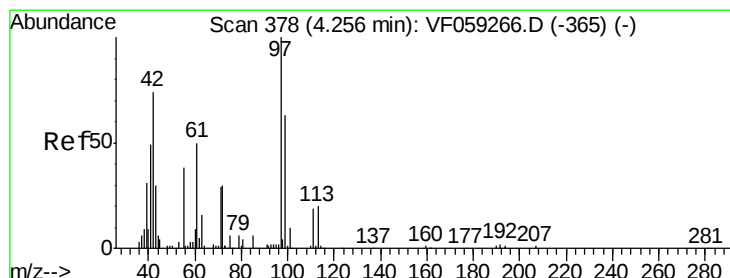
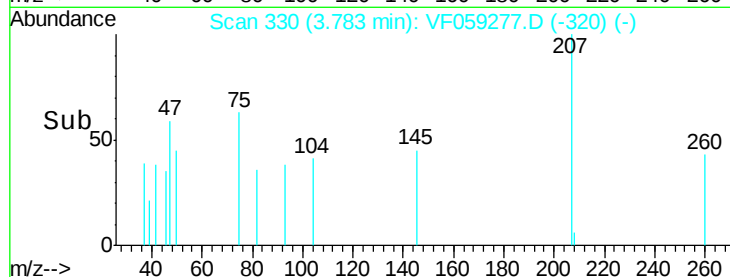
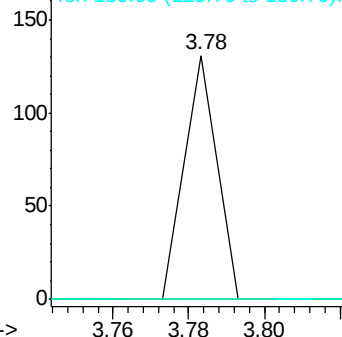
Acq: 21 Jun 2018 23:13

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 49 Resp: 77
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 69.4 104.2#



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: 2.02 ug/l

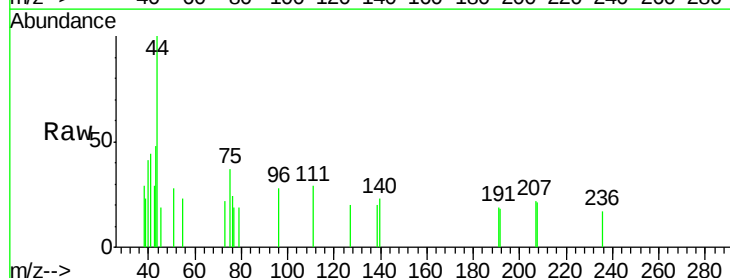
RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

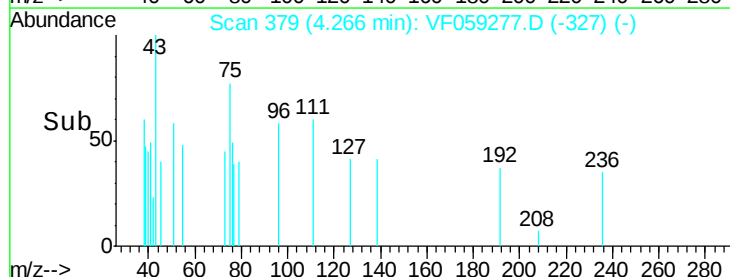
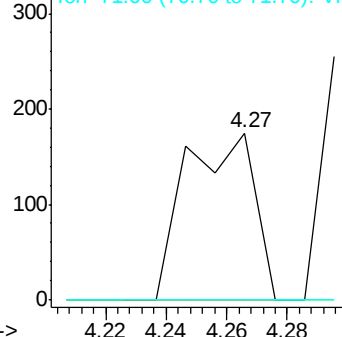
Lab File: VF059277.D

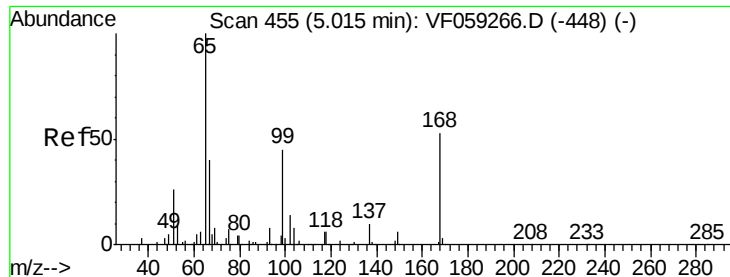
Acq: 21 Jun 2018 23:13

Tgt Ion: 42 Resp: 277
Ion Ratio Lower Upper
42 100
72 0.0 31.2 46.8#
71 0.0 30.2 45.2#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 44.17 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.01 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

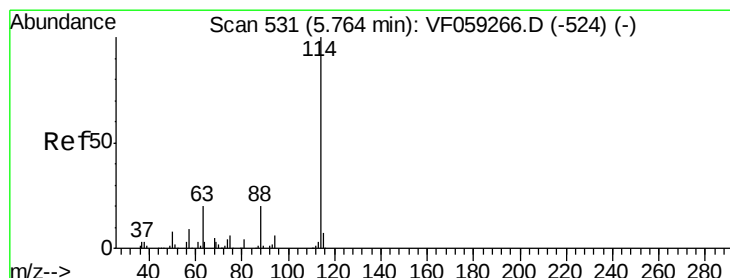
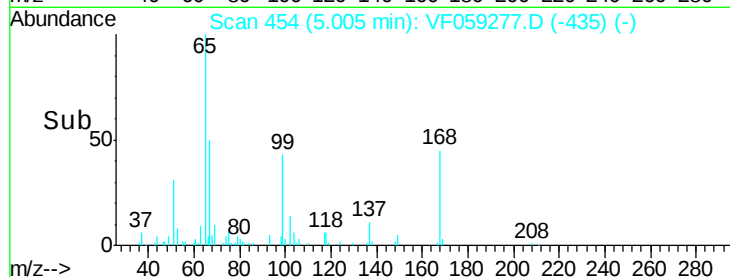
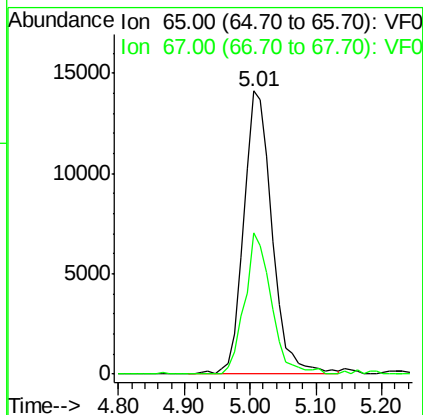
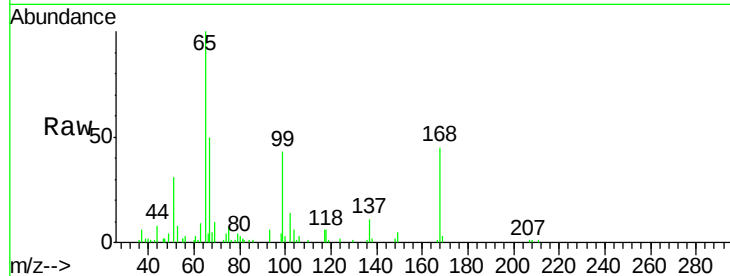
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 42765

Ion Ratio Lower Upper

65 100

67 49.9 0.0 95.8



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.01 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

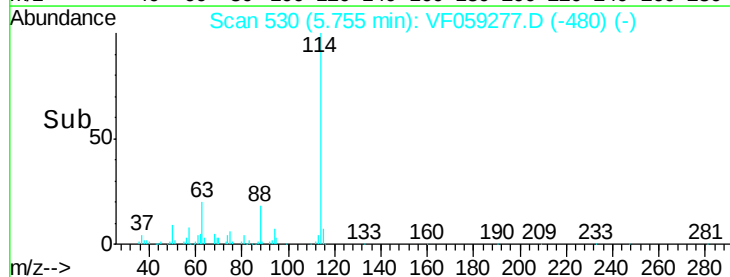
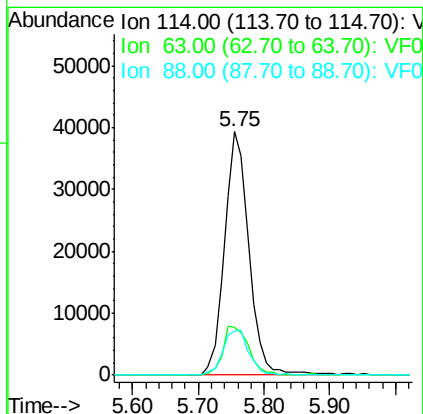
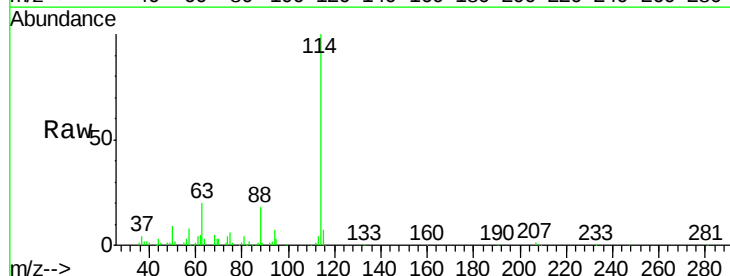
Tgt Ion: 114 Resp: 102054

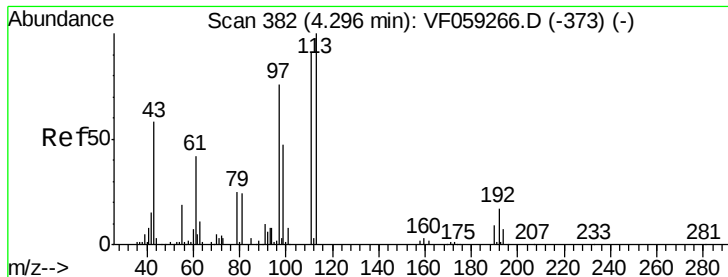
Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.0

88 18.3 0.0 39.6





#35

Dibromofluoromethane

Concen: 0.26 ug/l

RT: 4.29 min Scan# 381

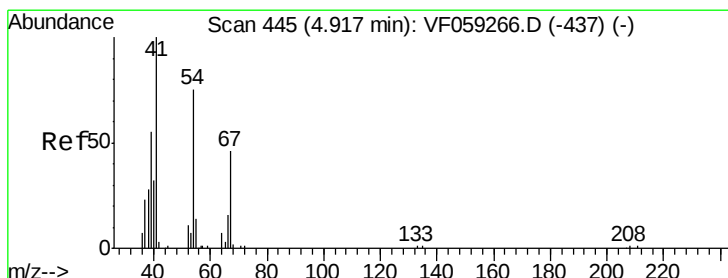
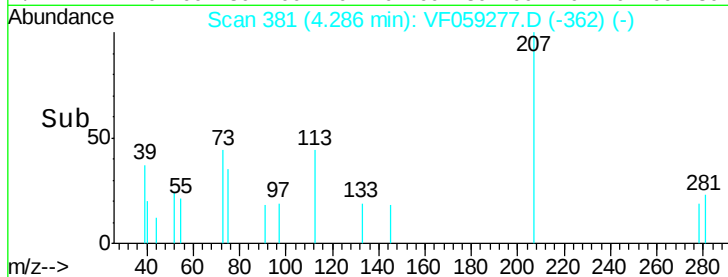
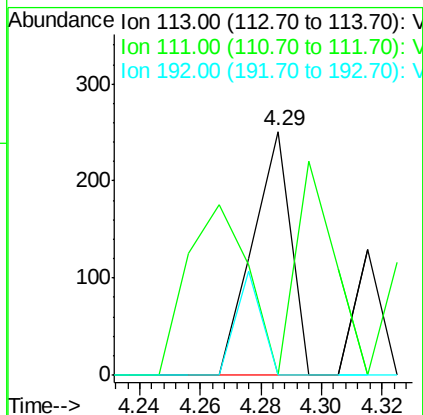
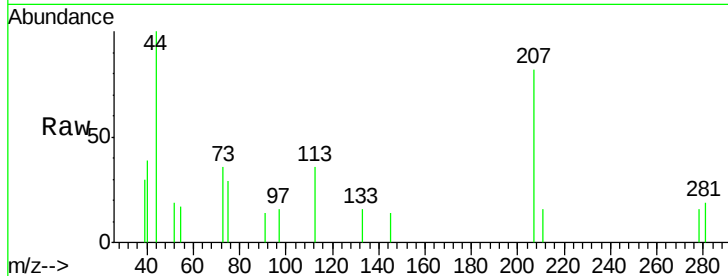
Delta R.T. -0.01 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	113	Resp:	219
Ion	Ratio	Lower	Upper
113	100		
111	0.0	73.1	109.7#
192	0.0	13.9	20.9#



#41

Methacrylonitrile

Concen: 1.19 ug/l

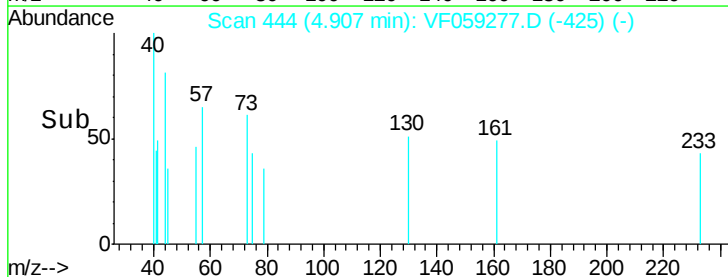
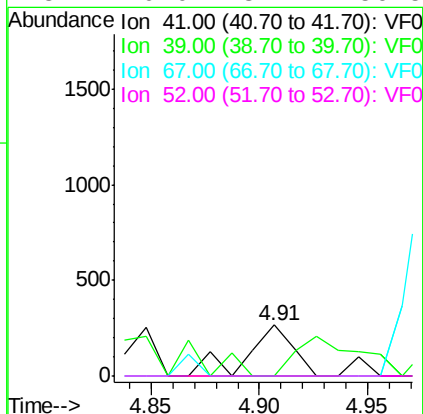
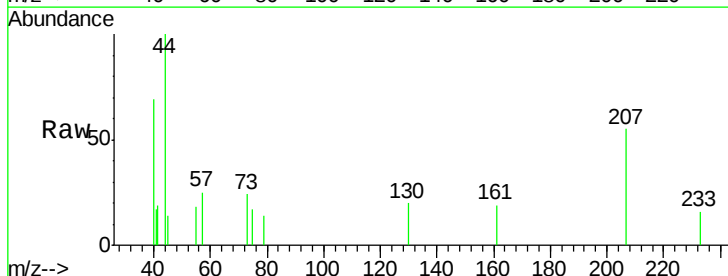
RT: 4.91 min Scan# 444

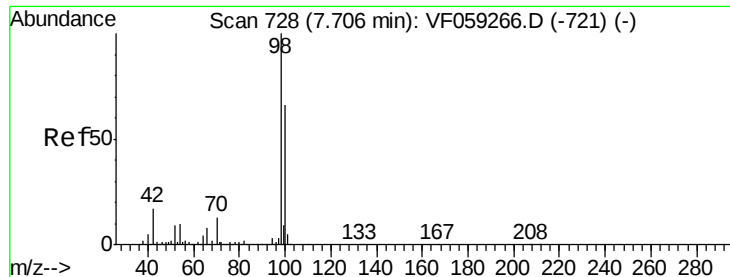
Delta R.T. -0.01 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

Tgt Ion:	41	Resp:	390
Ion	Ratio	Lower	Upper
41	100		
39	0.0	57.0	85.6#
67	0.0	36.8	55.2#
52	0.0	37.7	56.5#





#50

Toluene-d8

Concen: 42.20 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.01 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

Instrument :

MSVOA_F

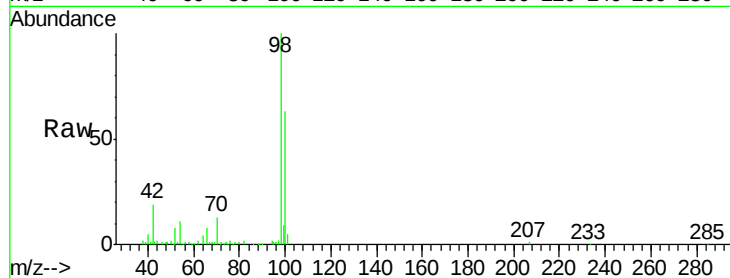
ClientSampleId :

Tot Ion: 98 Resp: 92161

Ion Ratio Lower Upper

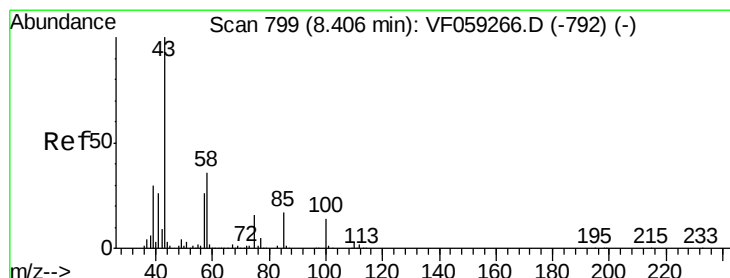
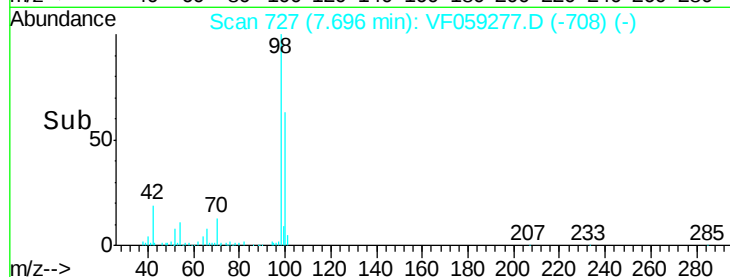
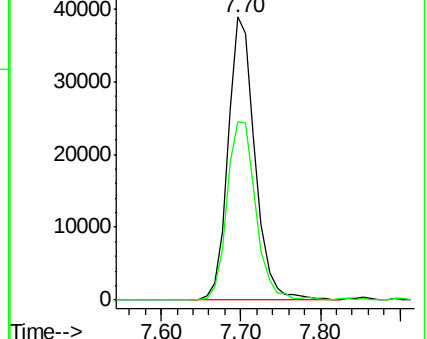
98 100

100 63.2 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 1.76 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF059277.D

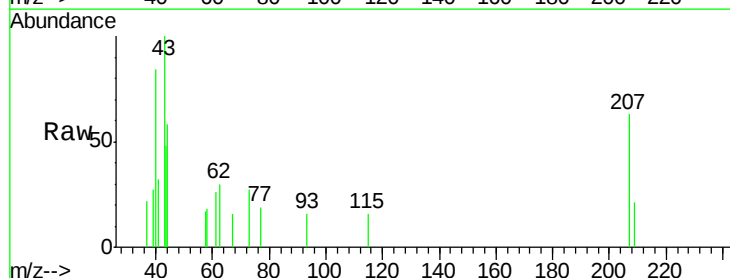
Acq: 21 Jun 2018 23:13

Tgt Ion: 43 Resp: 1056

Ion Ratio Lower Upper

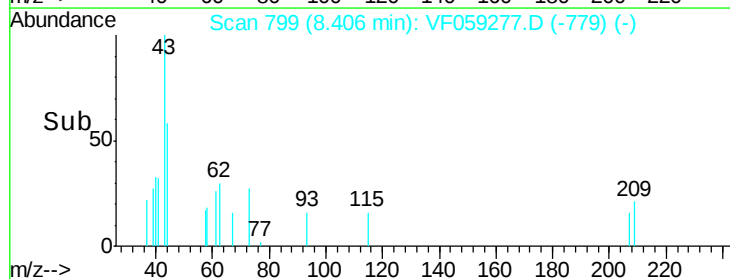
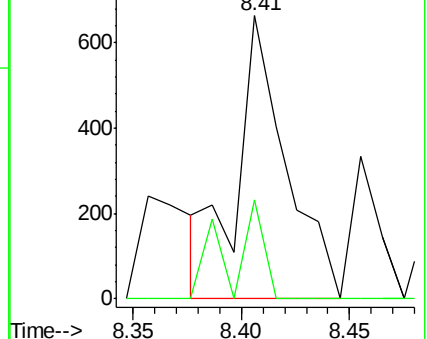
43 100

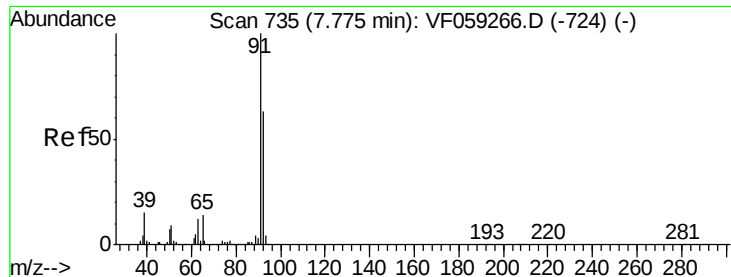
58 35.1 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 2.53 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.01 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

Instrument :

MSVOA_F

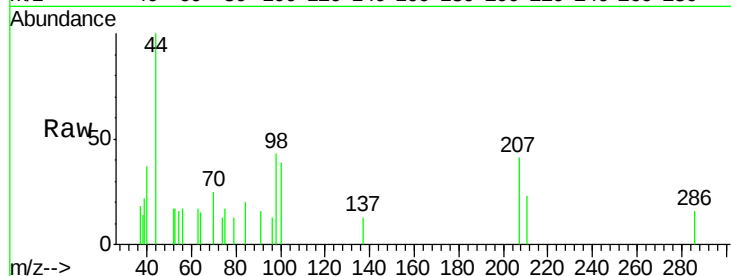
ClientSampleId :

Tot Ion: 63 Resp: 157

Ion Ratio Lower Upper

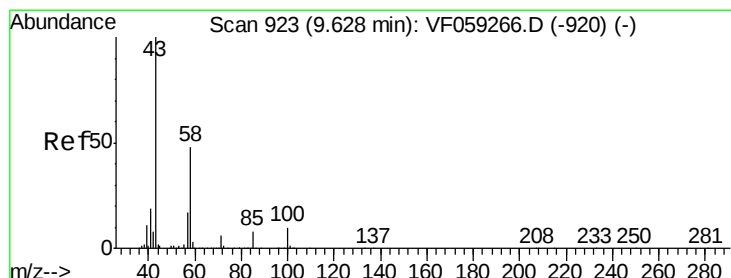
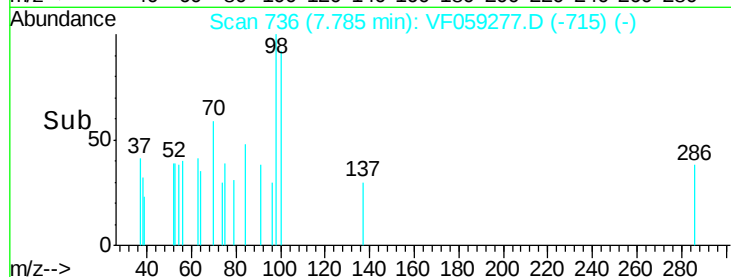
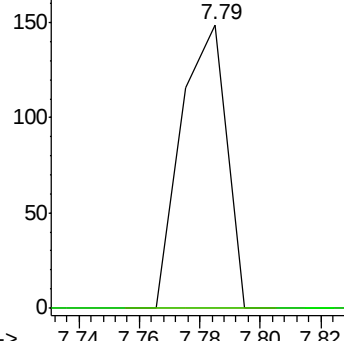
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): VF0



#59

2-Hexanone

Concen: 8.00 ug/l

RT: 9.62 min Scan# 922

Delta R.T. -0.01 min

Lab File: VF059277.D

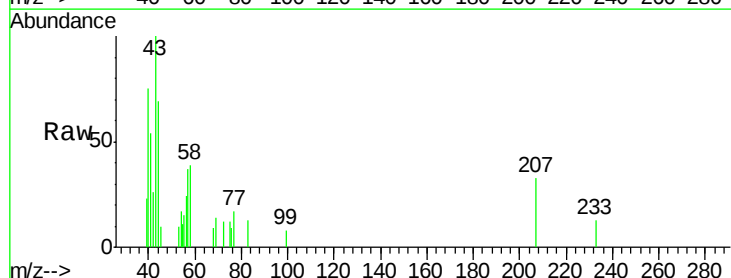
Acq: 21 Jun 2018 23:13

Tgt Ion: 43 Resp: 3797

Ion Ratio Lower Upper

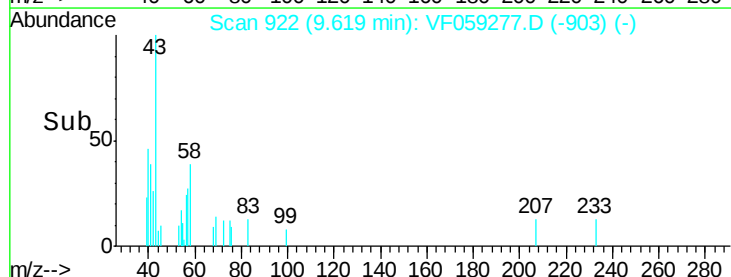
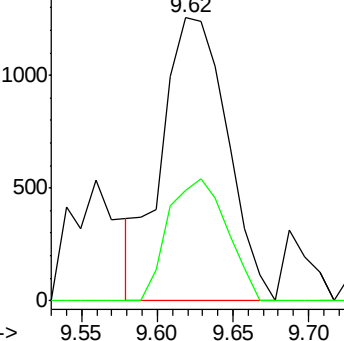
43 100

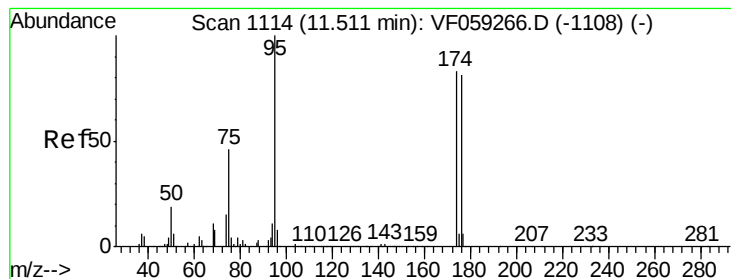
58 38.9 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 42.62 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

Instrument :

MSVOA_F

ClientSampleId :

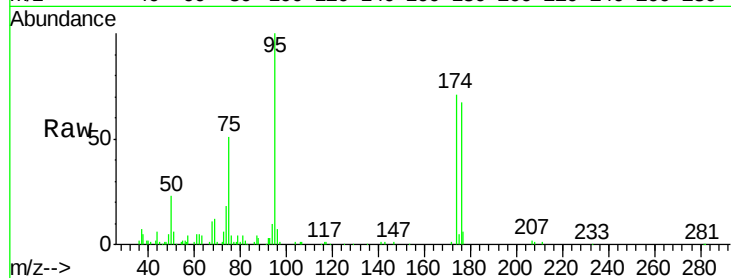
Tot Ion: 95 Resp: 51619

Ion Ratio Lower Upper

95 100

174 71.3 0.0 166.2

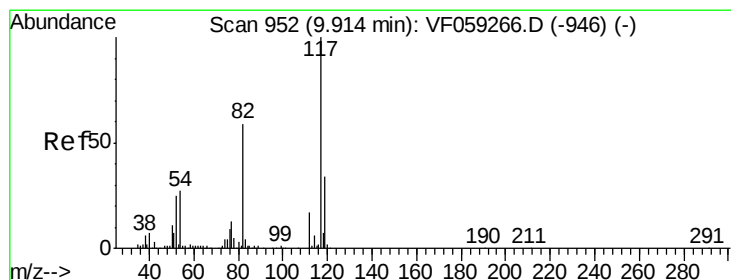
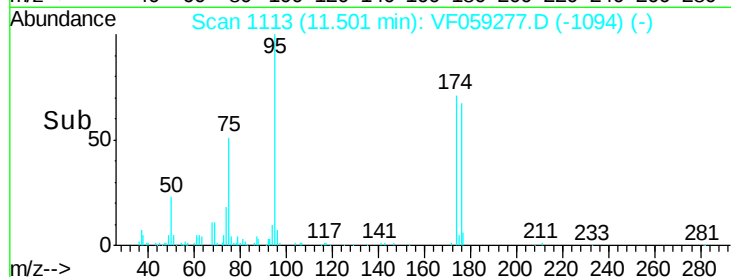
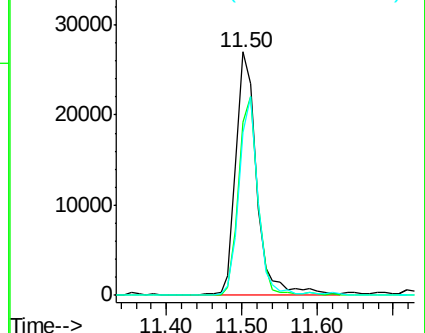
176 66.9 0.0 162.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.00 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

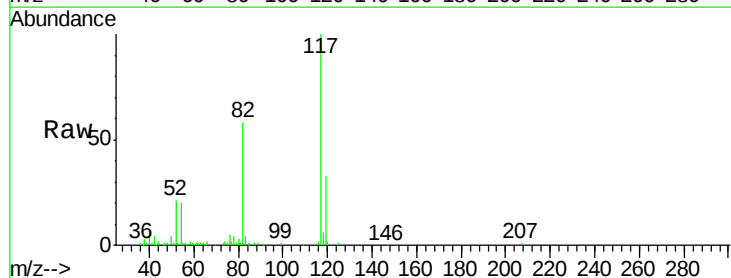
Tgt Ion: 117 Resp: 91887

Ion Ratio Lower Upper

117 100

82 58.5 47.1 70.7

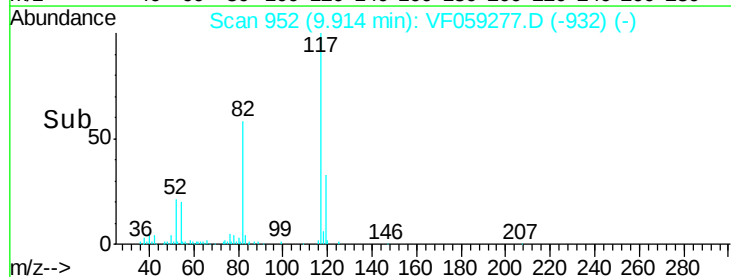
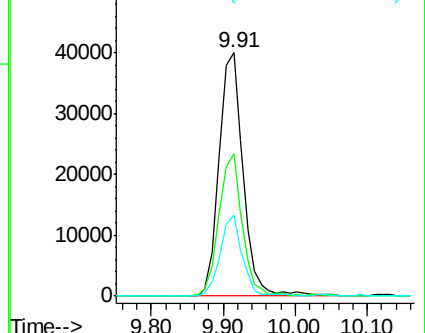
119 33.1 26.9 40.3

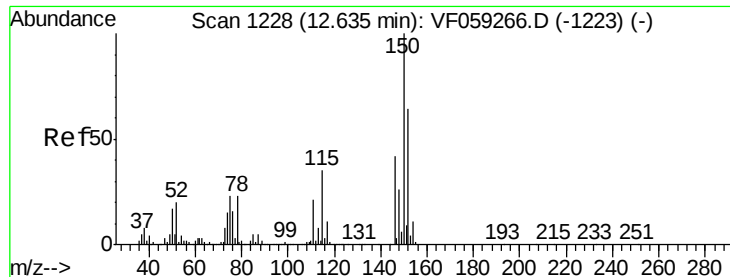


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



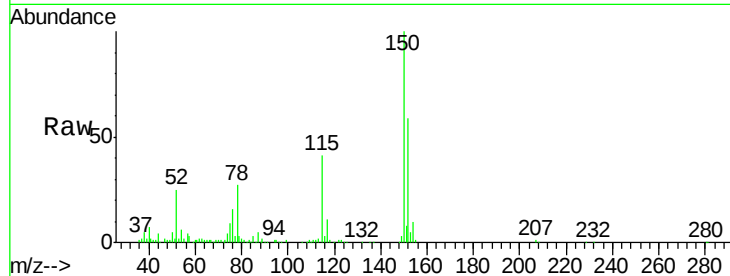


#72

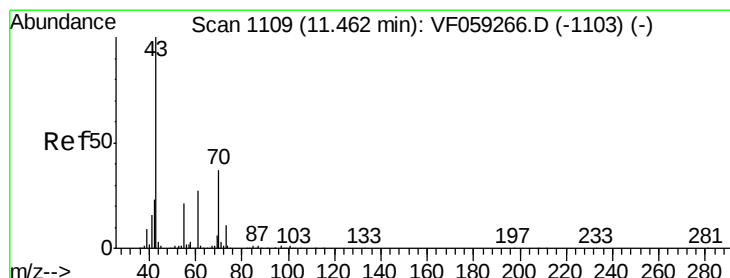
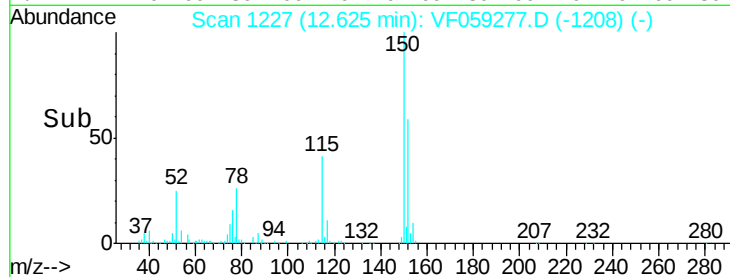
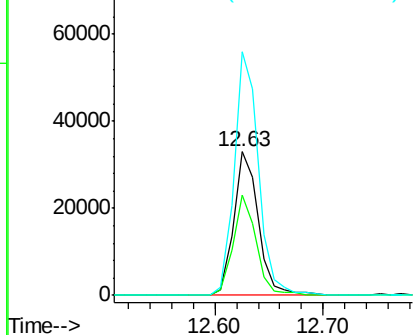
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.01 min
Lab File: VF059277.D
Acq: 21 Jun 2018 23:13

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	152	Resp	52467
Ion Ratio	Lower	Upper	
152	100		
115	69.6	27.8	83.3
150	169.5	0.0	313.8



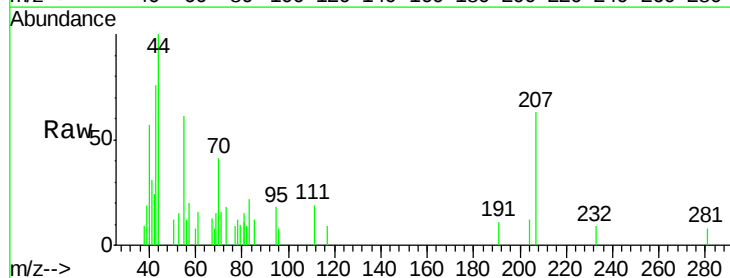
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



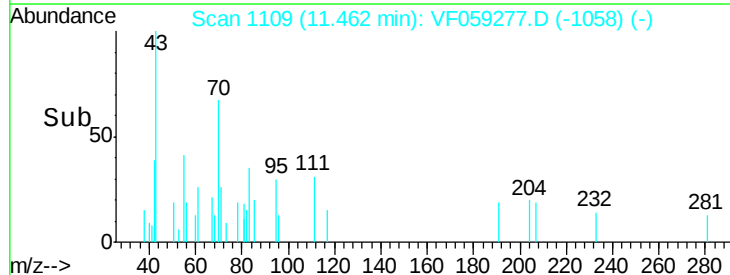
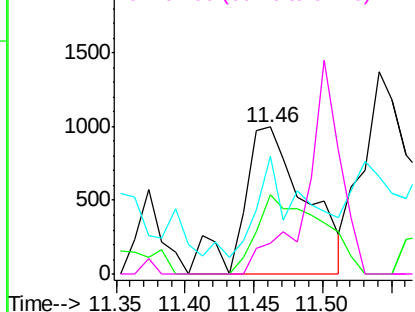
#74

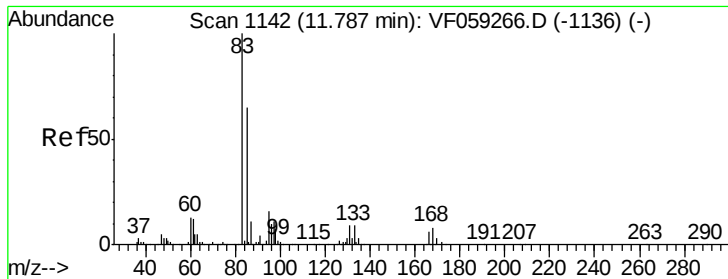
N-ethyl acetate
Concen: 2.71 ug/l
RT: 11.46 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VF059277.D
Acq: 21 Jun 2018 23:13

Tgt Ion	43	Resp	3196
Ion Ratio	Lower	Upper	
43	100		
70	54.2	29.6	44.4#
55	79.7	17.0	25.4#
61	20.7	21.4	32.2#



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: 2.16 ug/l

RT: 11.76 min Scan# 1139

Delta R.T. -0.03 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

Instrument :

MSVOA_F

ClientSampleId :

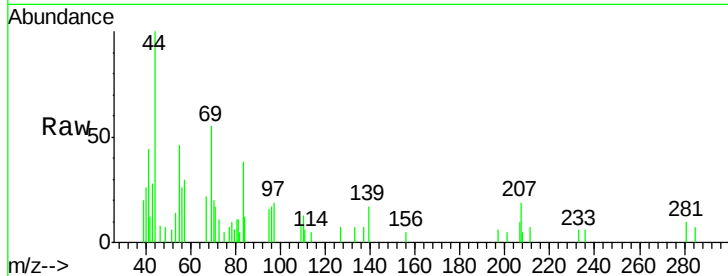
Tot Ion: 83 Resp: 1833

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

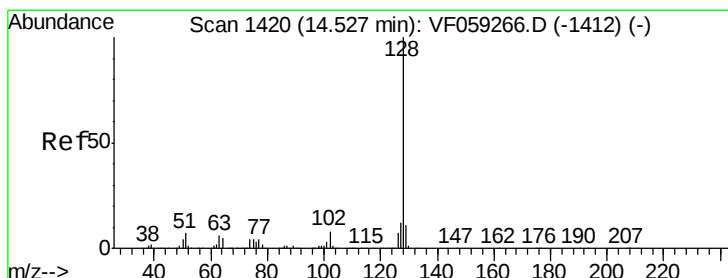
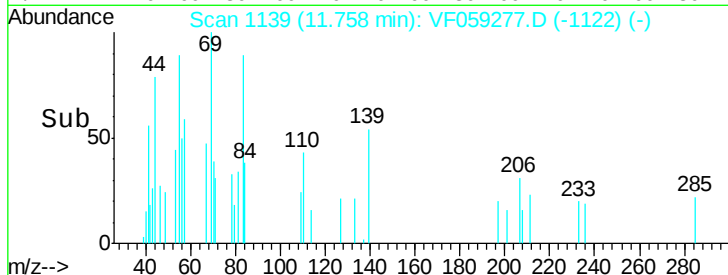
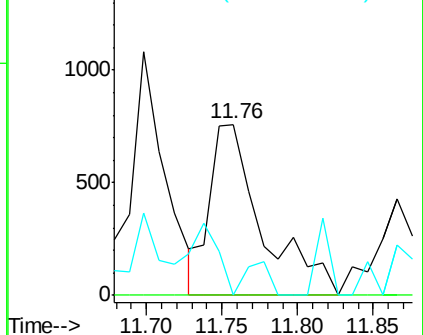
85 0.0 32.4 97.2#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#95

Naphthalene

Concen: 1.64 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. 0.00 min

Lab File: VF059277.D

Acq: 21 Jun 2018 23:13

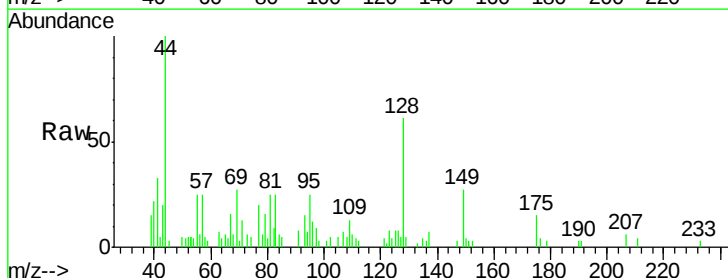
Tgt Ion:128 Resp: 4281

Ion Ratio Lower Upper

128 100

127 7.9 9.6 14.4#

129 8.8 9.0 13.4#



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

