

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112718\
 Data File : VF060840.D
 Acq On : 27 Nov 2018 15:58
 Operator : VA/AP
 Sample : J6074-01RE
 Misc : 6.32g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 001-WC-NY5

Quant Time: Nov 28 03:09:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.91	168	89074	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.64	114	152275	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.81	117	119101	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	42115	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.88	65	48952	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	
35) Dibromofluoromethane	4.15	113	52740	43.66	ug/l	0.00
Spiked Amount			Recovery	=	87.32%	
50) Toluene-d8	7.59	98	148242	41.66	ug/l	0.00
Spiked Amount			Recovery	=	83.32%	
62) 4-Bromofluorobenzene	11.44	95	56798	35.12	ug/l	0.00
Spiked Amount			Recovery	=	70.24%	

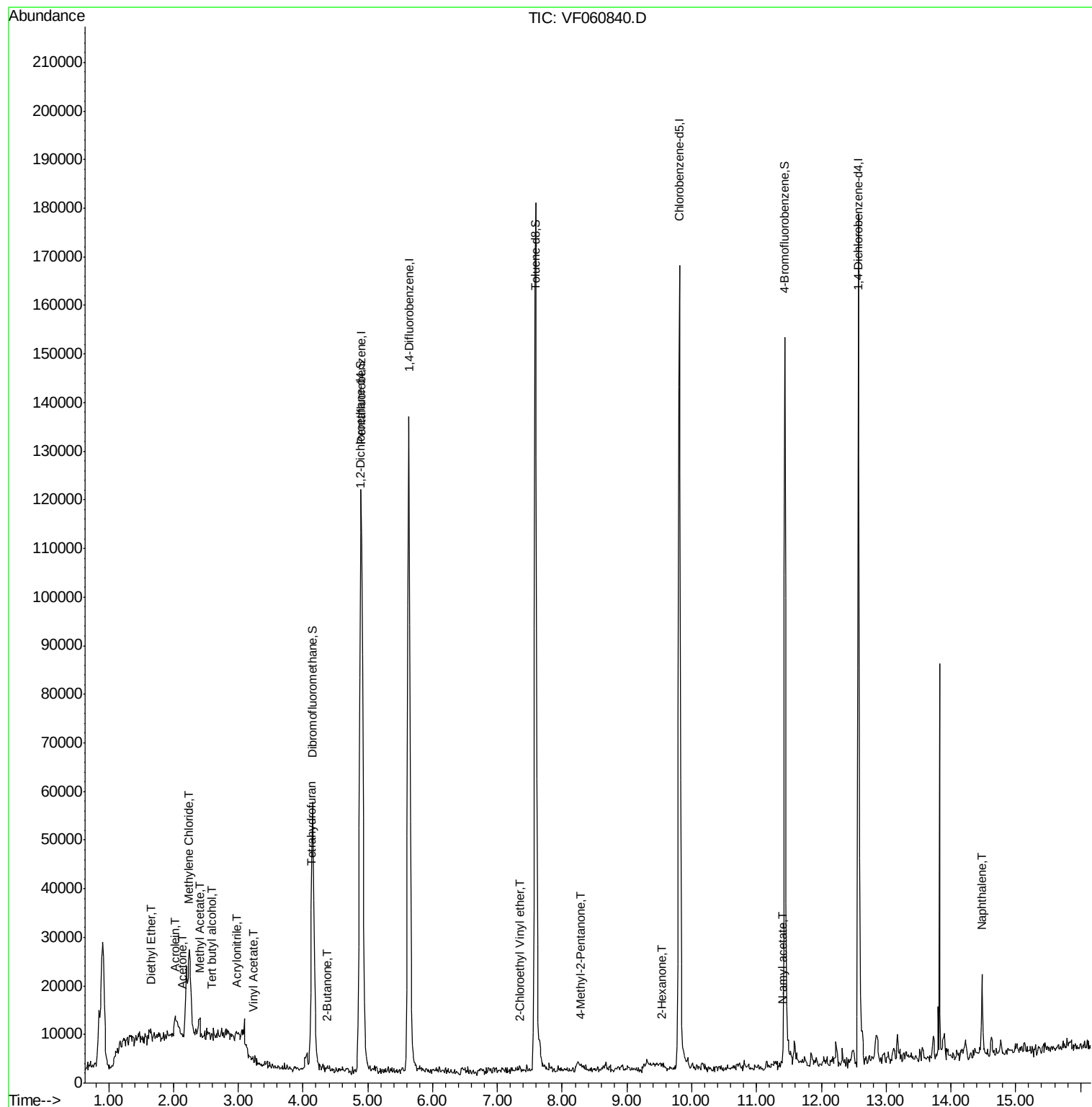
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.64	74	529	2.121	ug/l	56
11) Tert butyl alcohol	2.59	59	186	4.324	ug/l #	3
13) Acrolein	2.02	56	300	7.361	ug/l #	1
15) Acrylonitrile	2.96	53	1134	11.759	ug/l #	36
16) Acetone	2.15	43	331	1.711	ug/l	98
18) Methyl Acetate	2.40	43	2242	5.435	ug/l #	61
20) Methylene Chloride	2.24	84	8356	11.771	ug/l #	83
23) Vinyl Acetate	3.22	43	2060	1.883	ug/l #	80
25) 2-Butanone	4.36	43	2194	6.555	ug/l #	57
29) Tetrahydrofuran	4.12	42	442	3.116	ug/l #	62
41) Methacrylonitrile	4.78	41	605	Below Cal	#	50
43) Isopropyl Acetate	6.98	43	166	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.29	43	2602	4.111	ug/l #	87
58) 2-Chloroethyl Vinyl ether	7.33	63	105	1.210	ug/l #	46
59) 2-Hexanone	9.53	43	1901	4.281	ug/l	87
74) N-amyl acetate	11.40	43	971	1.263	ug/l #	44
95) Naphthalene	14.48	128	10708	2.697	ug/l #	91

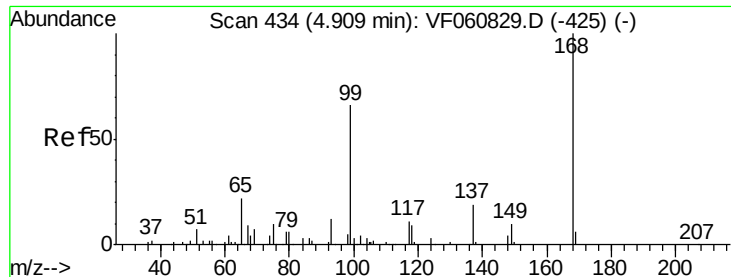
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

Delta R.T. -0.00 min

Lab File: VF060840.D

Acq: 27 Nov 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

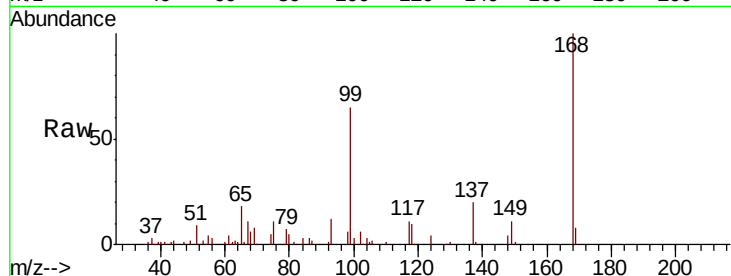
001-WC-NY5

Tot Ion:168 Resp: 89074

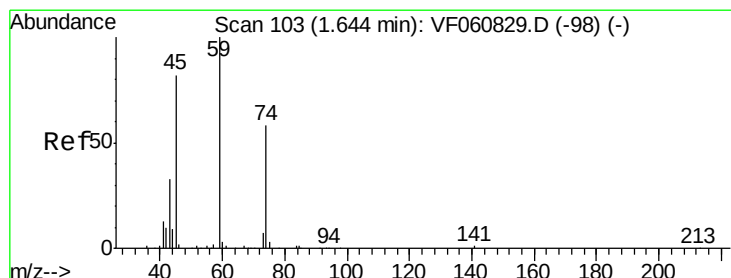
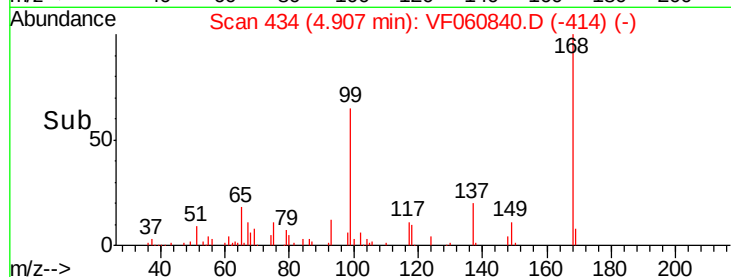
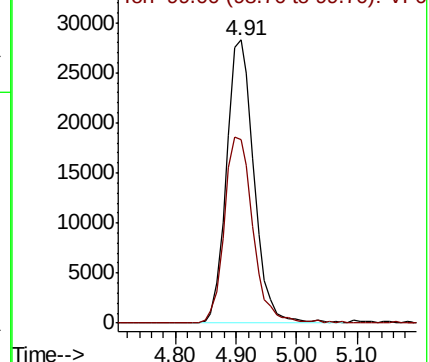
Ion Ratio Lower Upper

168 100

99 64.9 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#8

Diethyl Ether

Concen: 2.121 ug/l

RT: 1.64 min Scan# 103

Delta R.T. -0.00 min

Lab File: VF060840.D

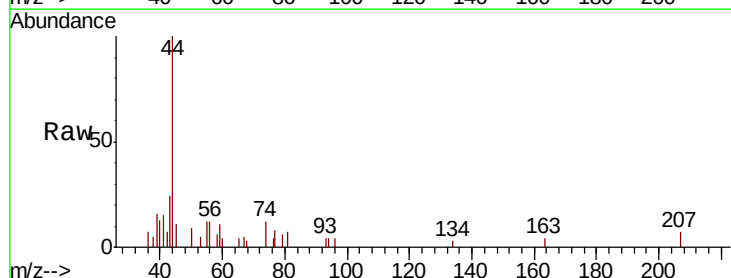
Acq: 27 Nov 2018 15:58

Tgt Ion: 74 Resp: 529

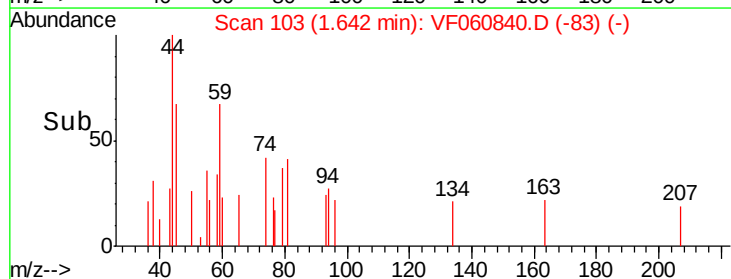
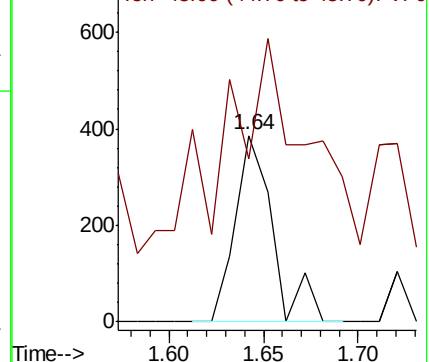
Ion Ratio Lower Upper

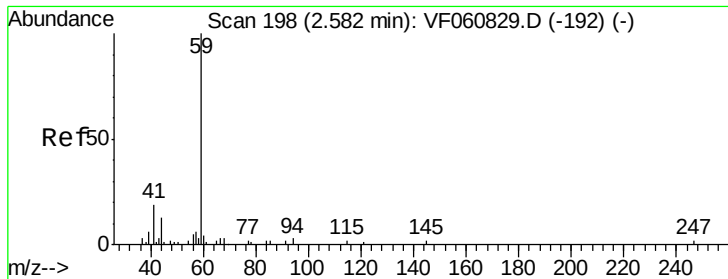
74 100

45 87.6 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0





#11

Tert butyl alcohol

Concen: 4.324 ug/l

RT: 2.59 min Scan# 199

Delta R.T. 0.01 min

Lab File: VF060840.D

Acq: 27 Nov 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

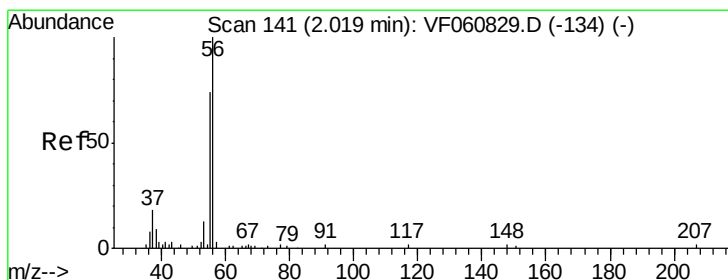
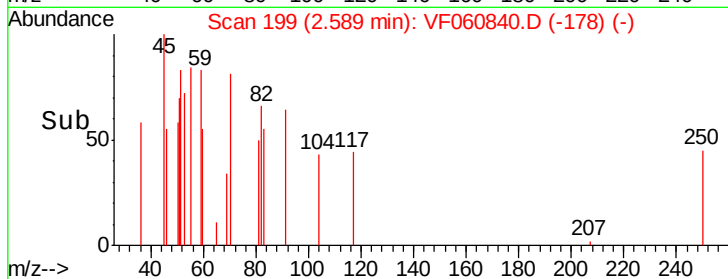
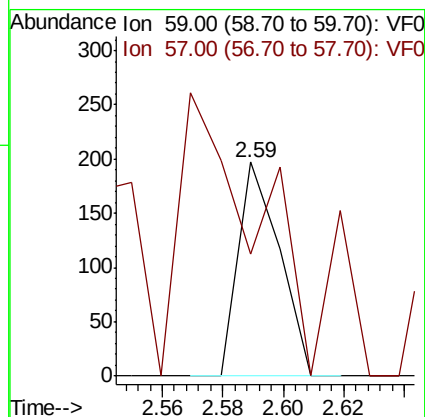
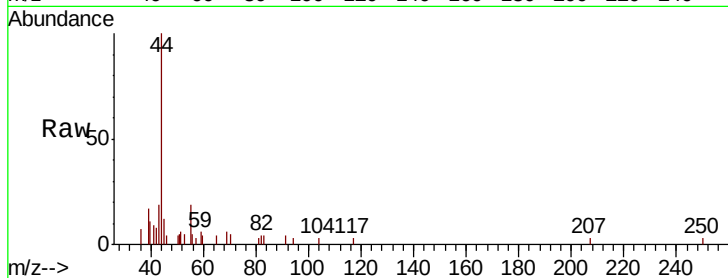
001-WC-NY5

Tot Ion: 59 Resp: 186

Ion Ratio Lower Upper

59 100

57 56.9 12.7 19.1#



#13

Acrolein

Concen: 7.361 ug/l

RT: 2.02 min Scan# 141

Delta R.T. -0.00 min

Lab File: VF060840.D

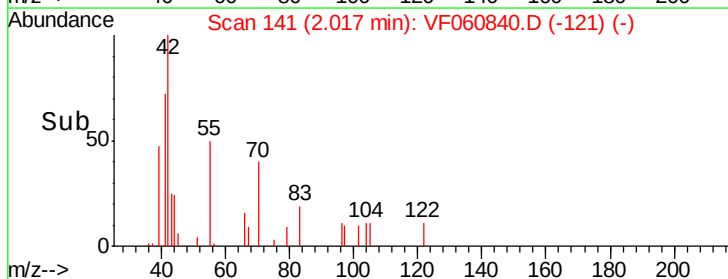
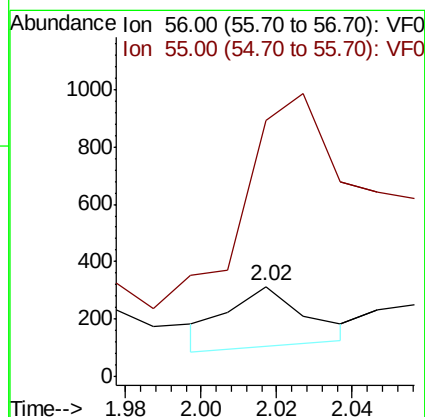
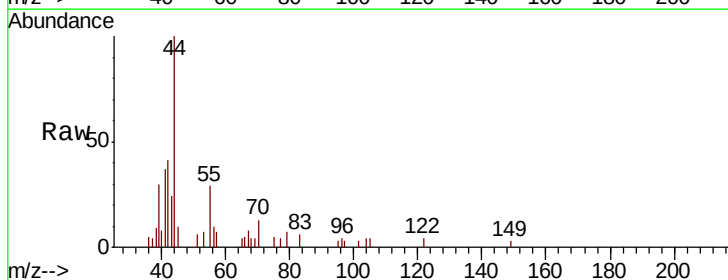
Acq: 27 Nov 2018 15:58

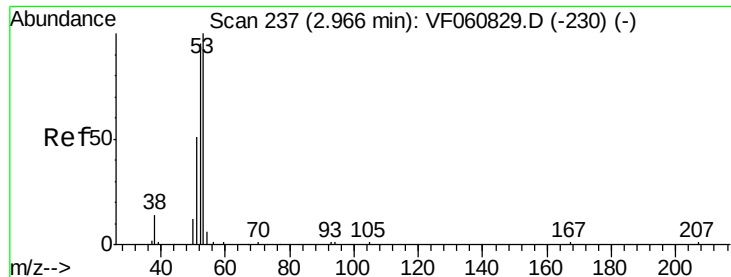
Tgt Ion: 56 Resp: 300

Ion Ratio Lower Upper

56 100

55 284.4 61.2 91.8#





#15

Acrylonitrile

Concen: 11.759 ug/l

RT: 2.96 min Scan# 237

Delta R.T. -0.00 min

Lab File: VF060840.D

Acq: 27 Nov 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

001-WC-NY5

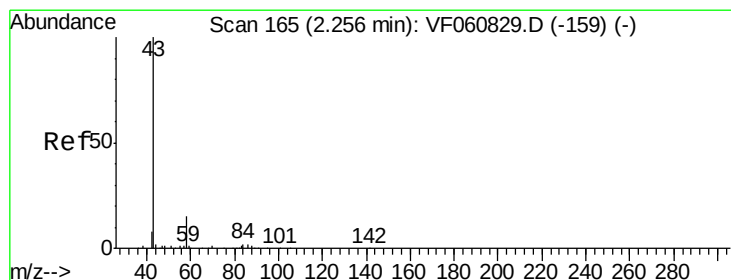
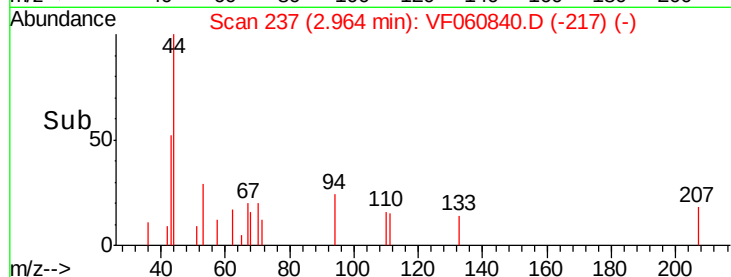
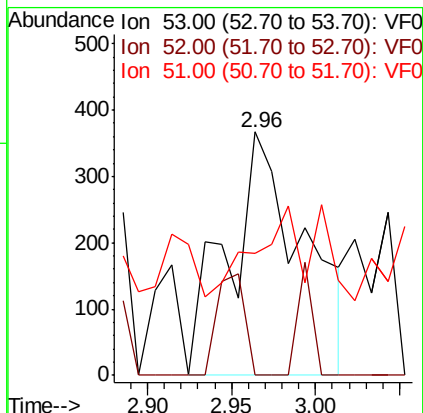
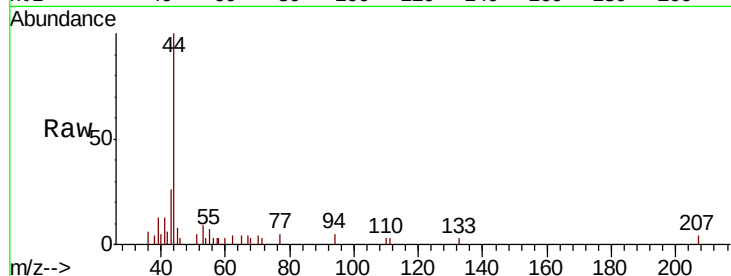
Tot Ion: 53 Resp: 1134

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 50.1 40.7 61.1



#16

Acetone

Concen: 1.711 ug/l

RT: 2.15 min Scan# 154

Delta R.T. -0.11 min

Lab File: VF060840.D

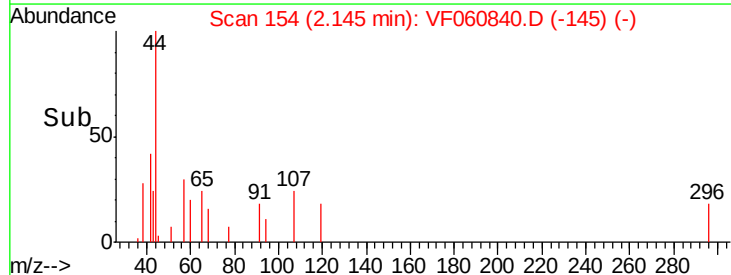
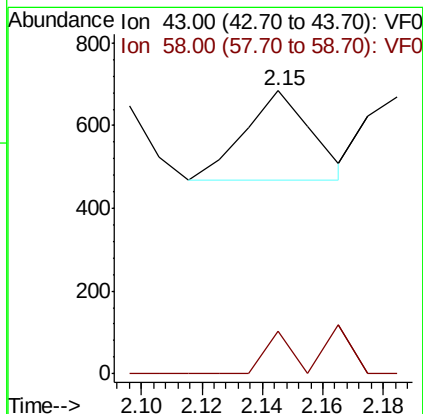
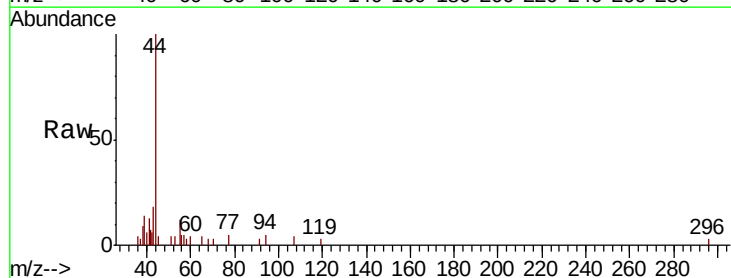
Acq: 27 Nov 2018 15:58

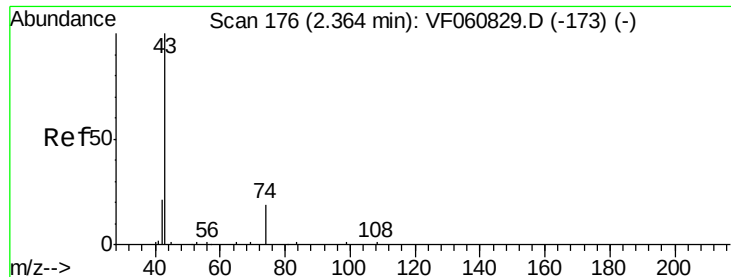
Tgt Ion: 43 Resp: 331

Ion Ratio Lower Upper

43 100

58 15.1 11.4 17.2

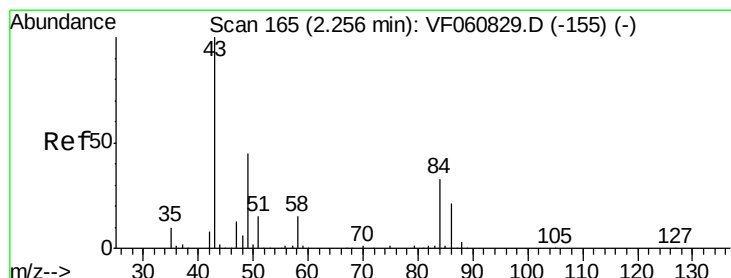
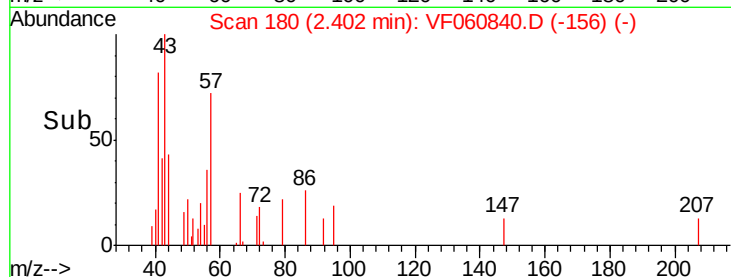
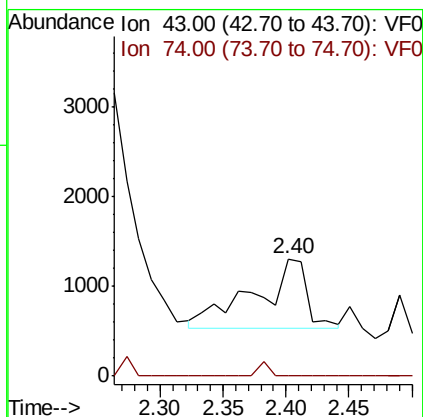
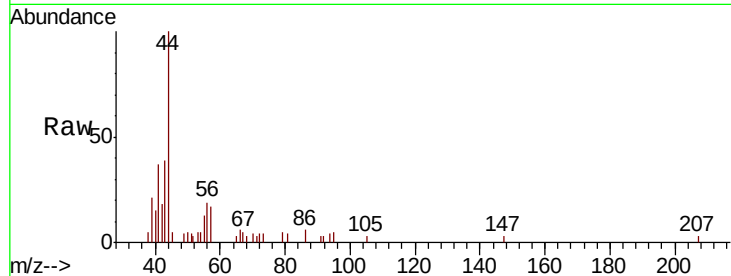




#18
Methyl Acetate
Concen: 5.435 ug/l
RT: 2.40 min Scan# 180
Delta R.T. 0.04 min
Lab File: VF060840.D
Acq: 27 Nov 2018 15:58

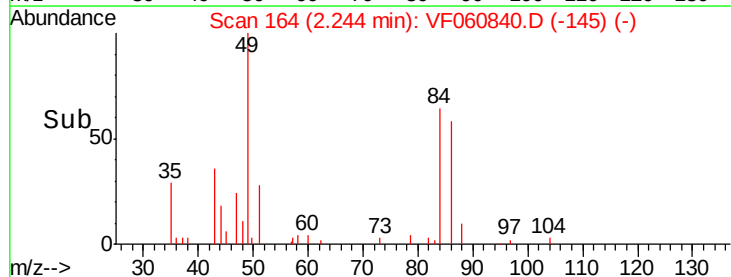
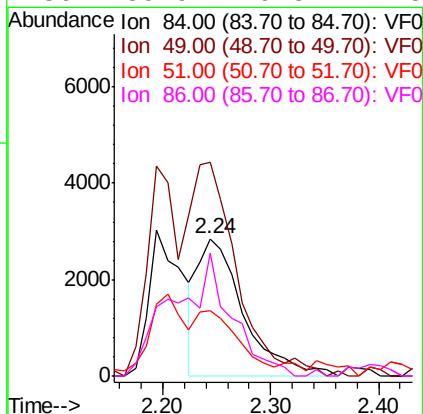
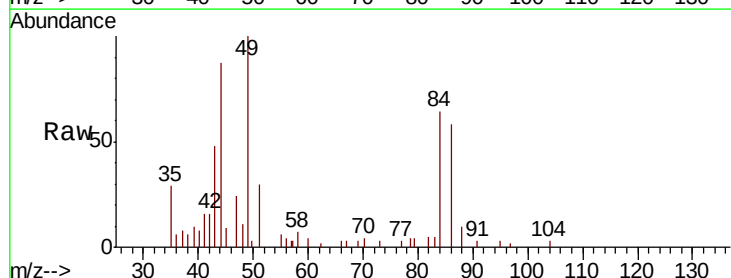
Instrument :
MSVOA_F
ClientSampleId :
001-WC-NY5

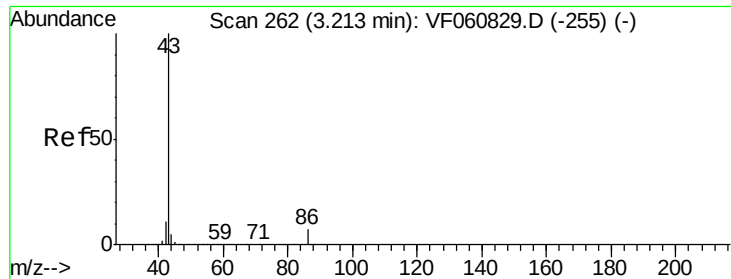
Tot Ion: 43 Resp: 2242
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: 11.771 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060840.D
Acq: 27 Nov 2018 15:58

Tgt Ion: 84 Resp: 8356
Ion Ratio Lower Upper
84 100
49 155.9 111.3 166.9
51 47.4 38.0 57.0
86 89.9 49.8 74.8#





#23

Vinyl Acetate

Concen: 1.883 ug/l

RT: 3.22 min Scan# 263

Delta R.T. 0.01 min

Lab File: VF060840.D

Acq: 27 Nov 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

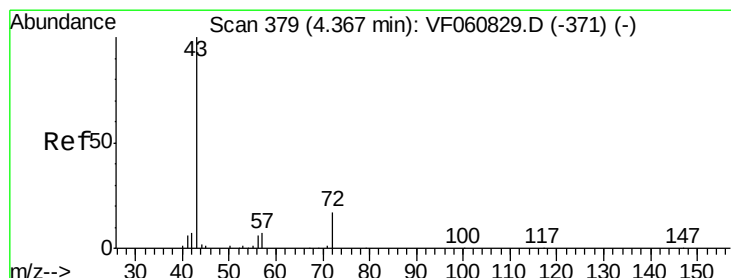
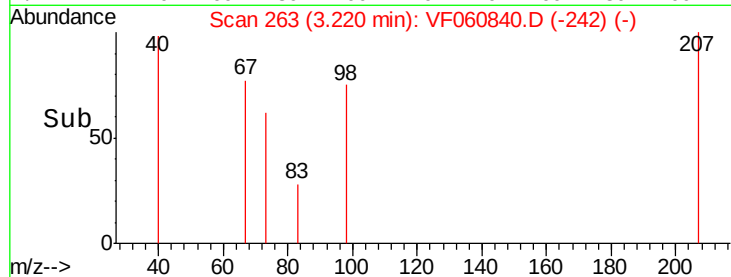
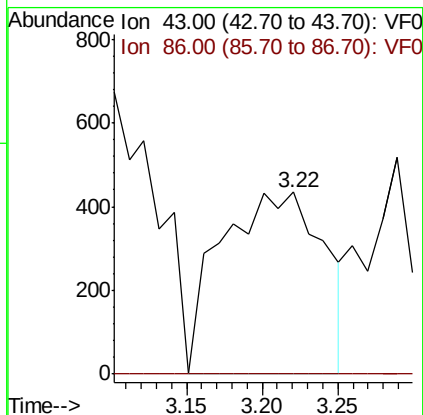
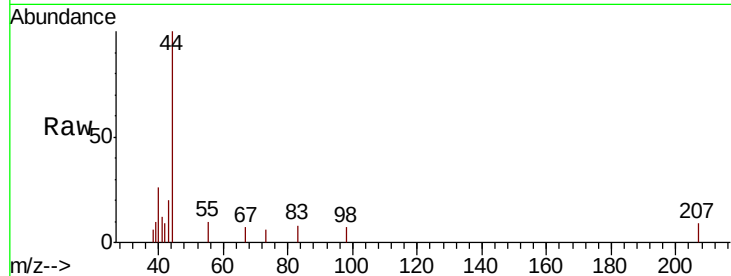
001-WC-NY5

Tot Ion: 43 Resp: 2060

Ion Ratio Lower Upper

43 100

86 0.0 5.4 8.0#



#25

2-Butanone

Concen: 6.555 ug/l

RT: 4.36 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF060840.D

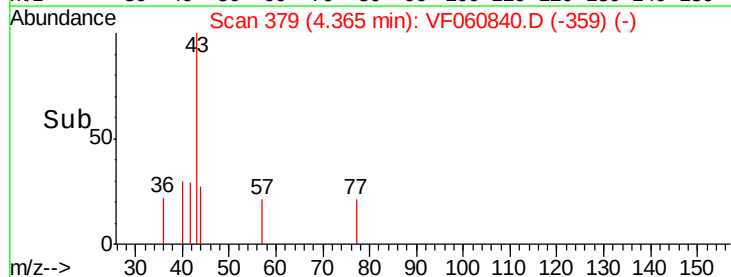
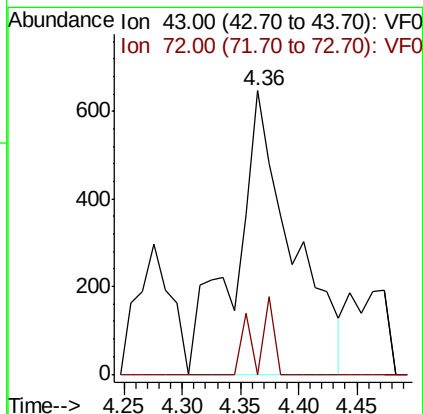
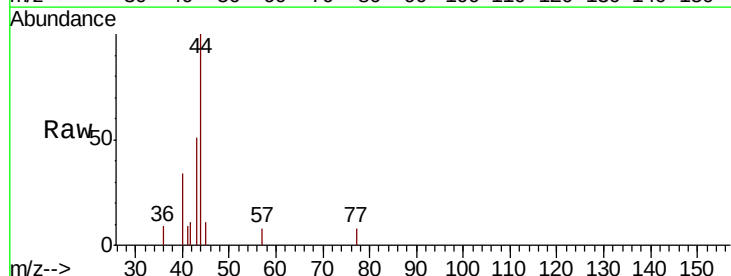
Acq: 27 Nov 2018 15:58

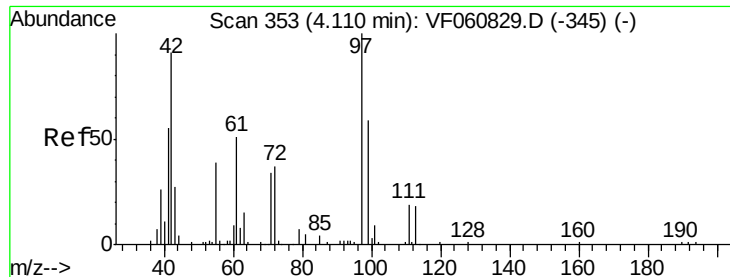
Tgt Ion: 43 Resp: 2194

Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#





#29

Tetrahydrofuran

Concen: 3.116 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF060840.D

Acq: 27 Nov 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

001-WC-NY5

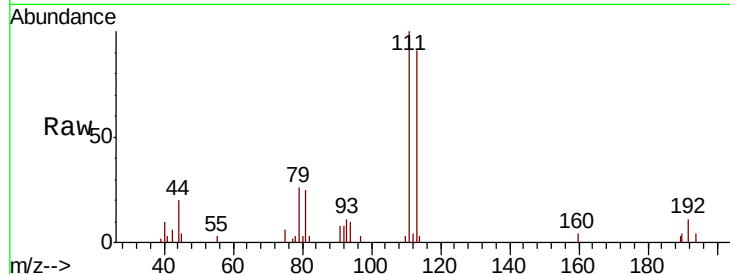
Tot Ion: 42 Resp: 442

Ion Ratio Lower Upper

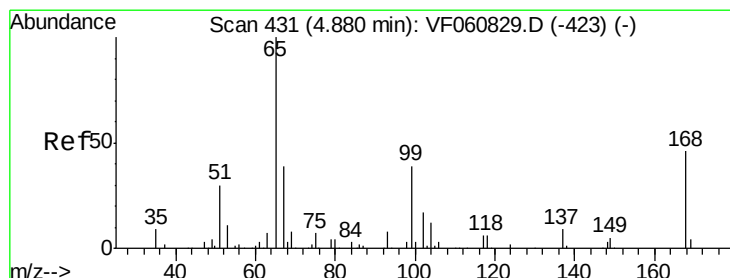
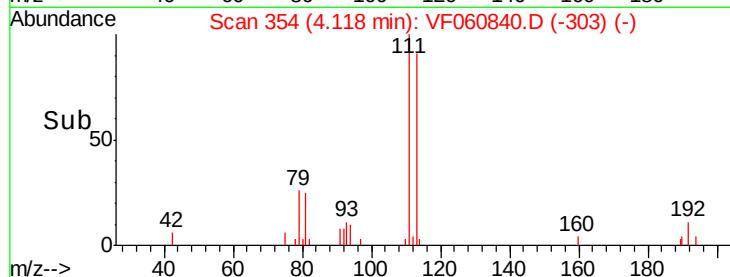
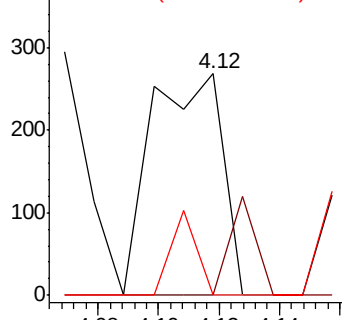
42 100

72 16.1 31.9 47.9#

71 13.6 28.7 43.1#



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: 46.651 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.00 min

Lab File: VF060840.D

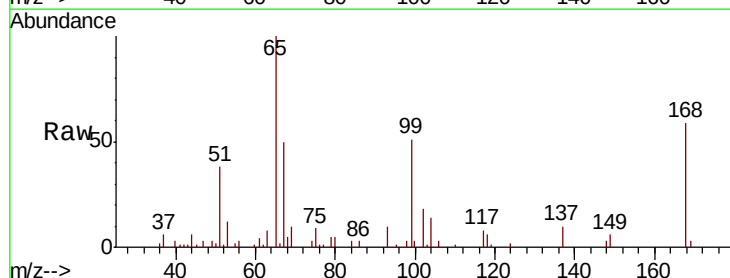
Acq: 27 Nov 2018 15:58

Tgt Ion: 65 Resp: 48952

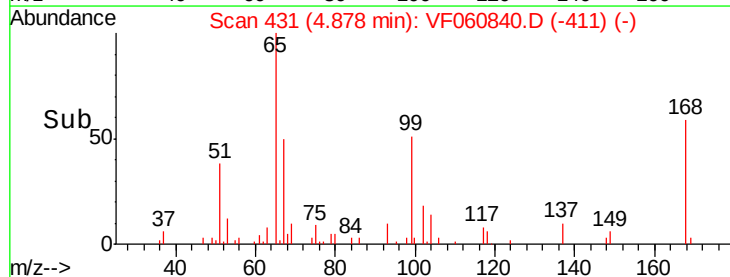
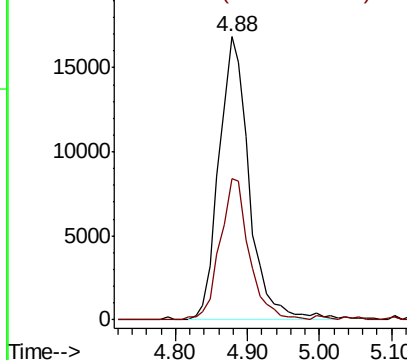
Ion Ratio Lower Upper

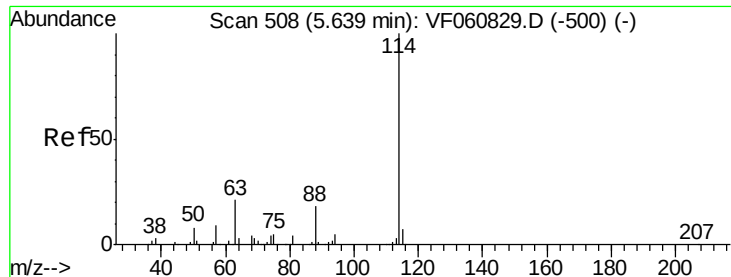
65 100

67 50.0 0.0 96.4



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: 5.64 min Scan# 508

Delta R.T. -0.00 min

Lab File: VF060840.D

Acq: 27 Nov 2018 15:58

Instrument :

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ClientSampleId :

001-WC-NY5

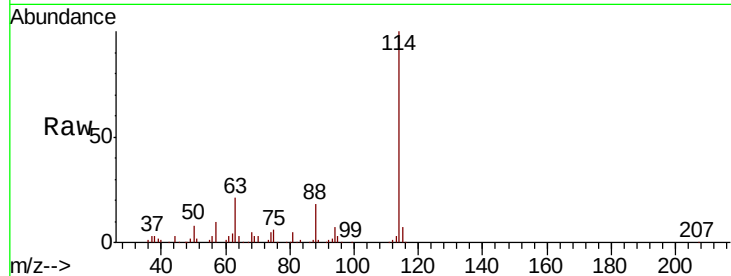
Tot Ion:114 Resp: 152275

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.6

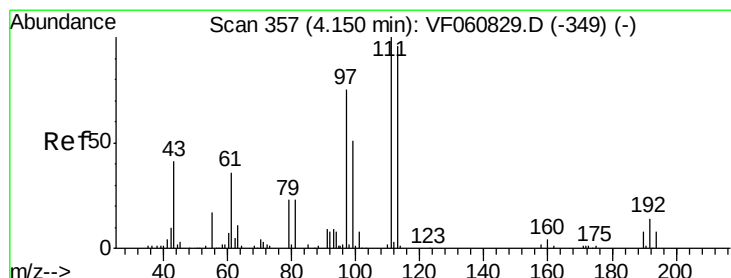
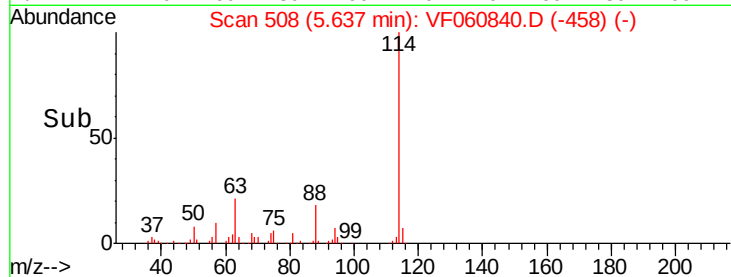
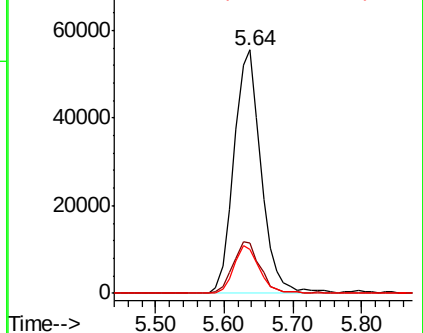
88 18.1 0.0 36.6



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: 43.658 ug/l

RT: 4.15 min Scan# 357

Delta R.T. -0.00 min

Lab File: VF060840.D

Acq: 27 Nov 2018 15:58

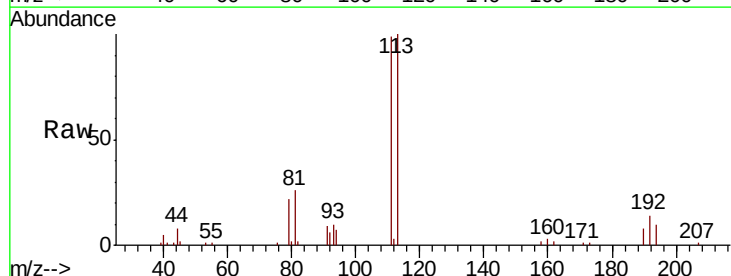
Tgt Ion:113 Resp: 52740

Ion Ratio Lower Upper

113 100

111 99.3 83.0 124.6

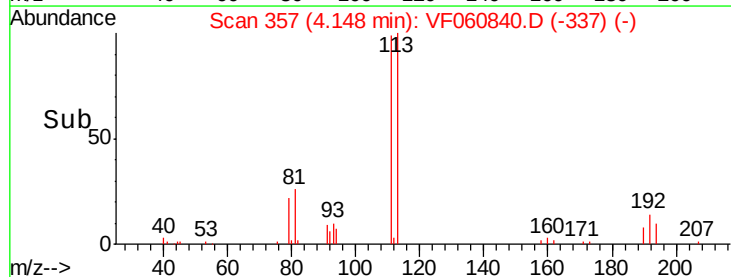
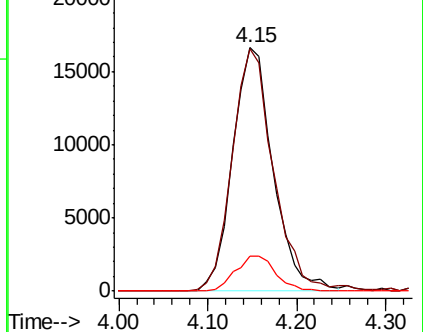
192 14.3 12.3 18.5

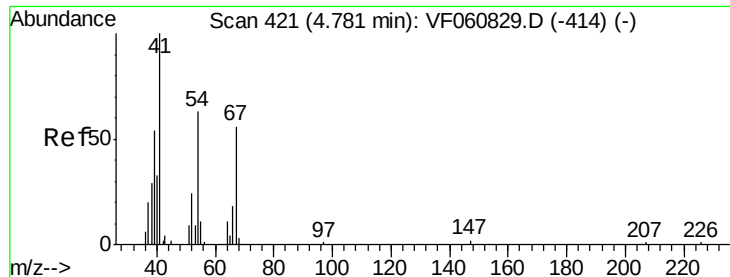


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

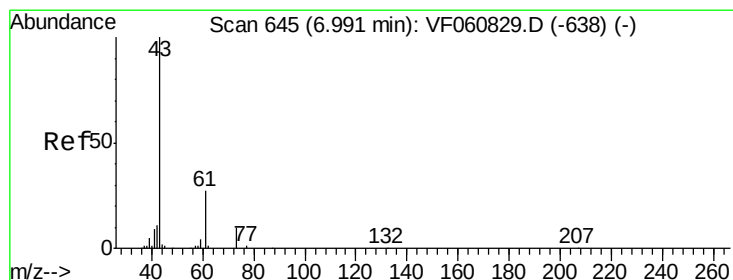
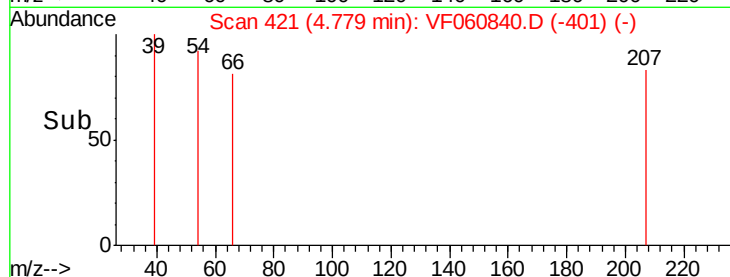
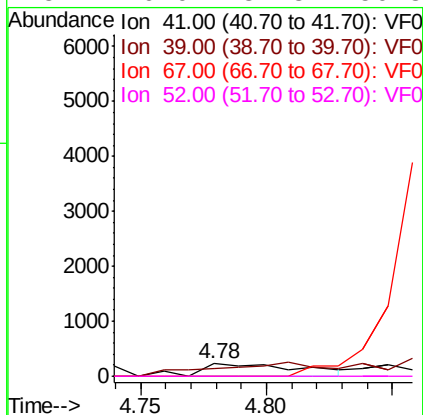
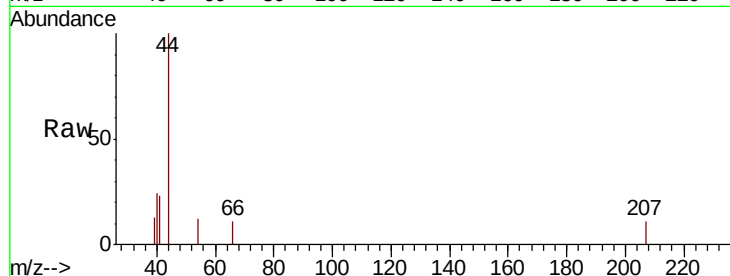




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.78 min Scan# 421
Delta R.T. -0.00 min
Lab File: VF060840.D
Acq: 27 Nov 2018 15:58

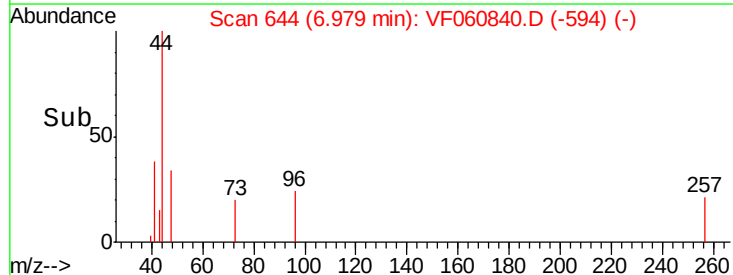
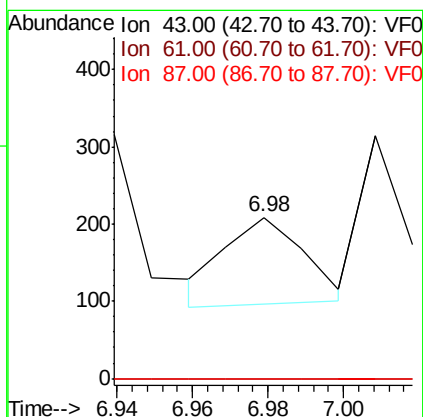
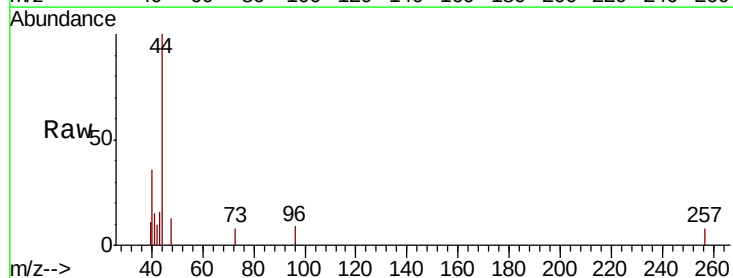
Instrument :
MSVOA_F
ClientSampleId :
001-WC-NY5

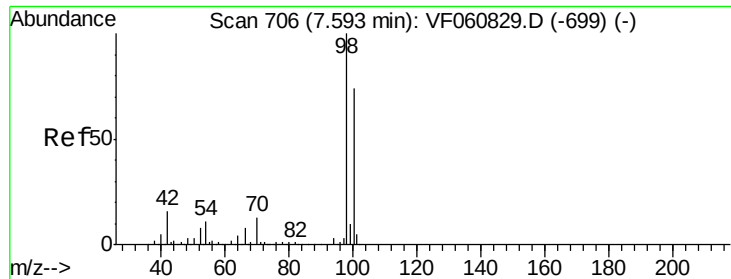
Tot Ion: 41 Resp: 605
Ion Ratio Lower Upper
41 100
39 55.8 53.0 79.6
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.98 min Scan# 644
Delta R.T. -0.01 min
Lab File: VF060840.D
Acq: 27 Nov 2018 15:58

Tgt Ion: 43 Resp: 166
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.0#
87 0.0 0.2 0.4#





#50

Toluene-d8

Concen: 41.658 ug/l

RT: 7.59 min Scan# 706

Delta R.T. -0.00 min

Lab File: VF060840.D

Acq: 27 Nov 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

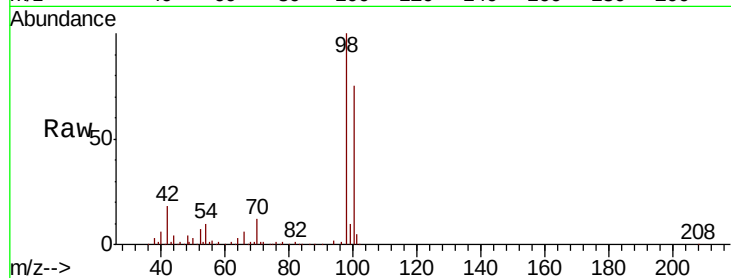
001-WC-NY5

Tot Ion: 98 Resp: 148242

Ion Ratio Lower Upper

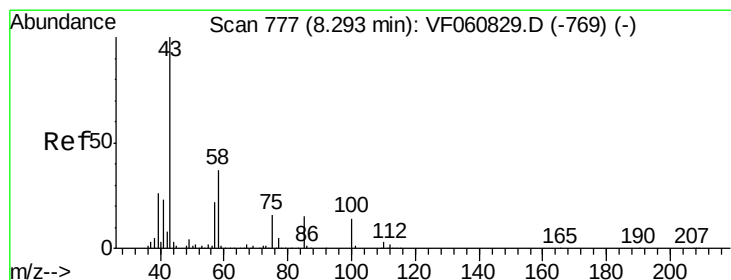
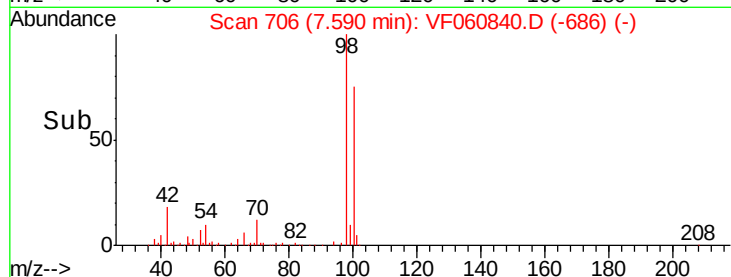
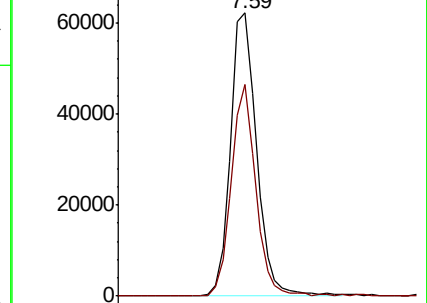
98 100

100 74.9 59.3 88.9



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: 4.111 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF060840.D

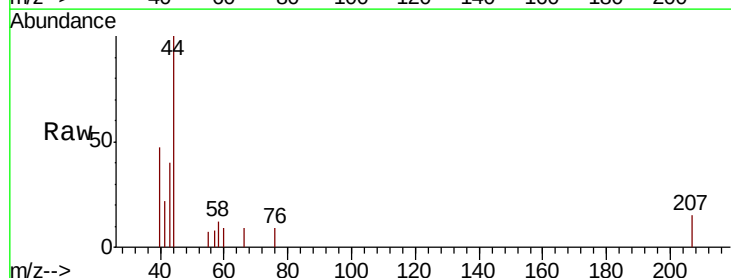
Acq: 27 Nov 2018 15:58

Tgt Ion: 43 Resp: 2602

Ion Ratio Lower Upper

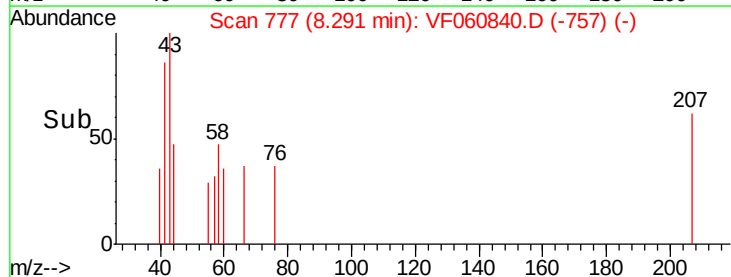
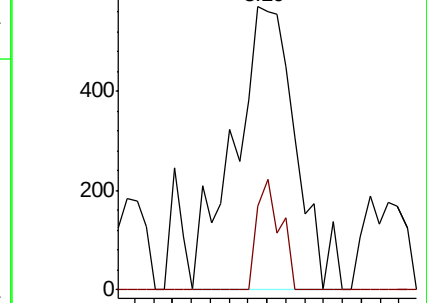
43 100

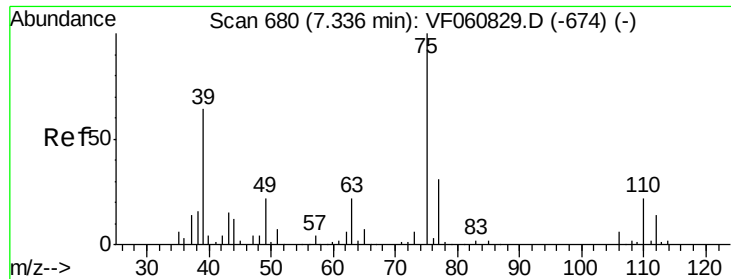
58 29.6 29.7 44.5#



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: 1.210 ug/l

RT: 7.33 min Scan# 680

Delta R.T. -0.00 min

Lab File: VF060840.D

Acq: 27 Nov 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

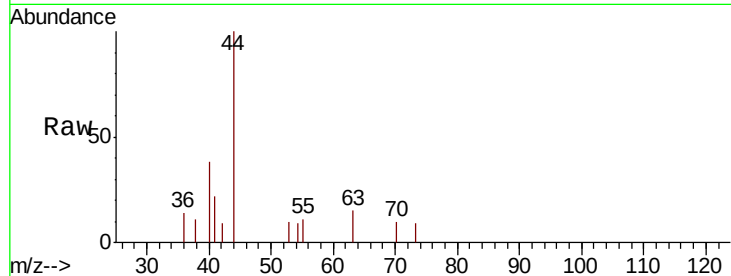
001-WC-NY5

Tot Ion: 63 Resp: 105

Ion Ratio Lower Upper

63 100

106 0.0 23.0 34.6#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.33

150

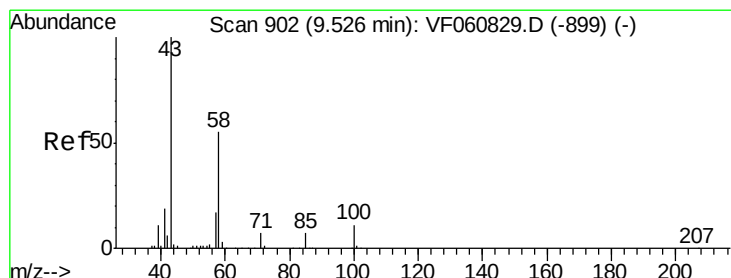
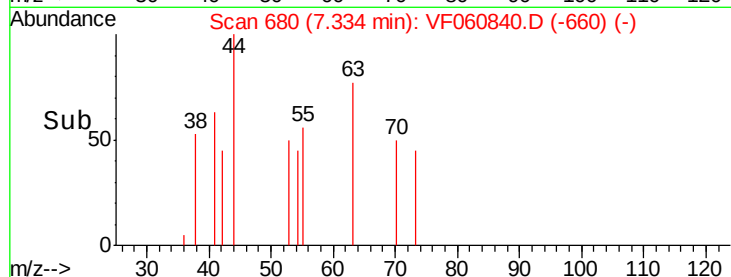
100

50

0

7.30 7.32 7.34 7.36

Time-->



#59

2-Hexanone

Concen: 4.281 ug/l

RT: 9.53 min Scan# 903

Delta R.T. 0.01 min

Lab File: VF060840.D

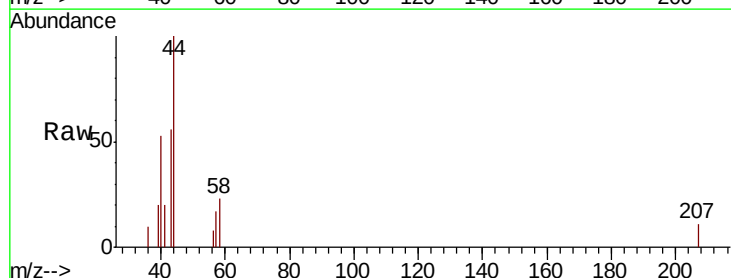
Acq: 27 Nov 2018 15:58

Tgt Ion: 43 Resp: 1901

Ion Ratio Lower Upper

43 100

58 42.0 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

800

600

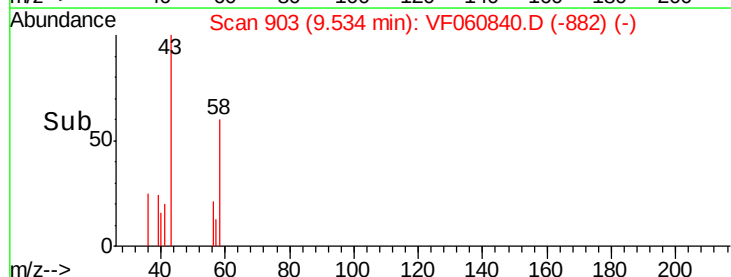
400

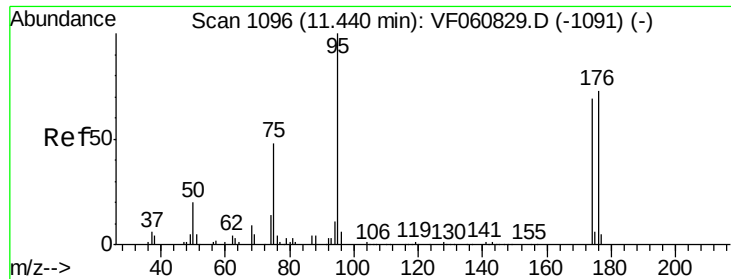
200

0

9.45 9.50 9.55 9.60 9.65

Time-->

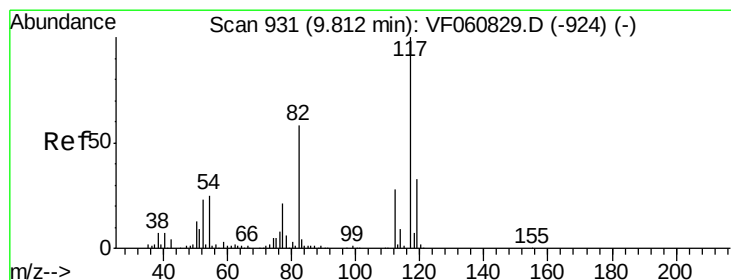
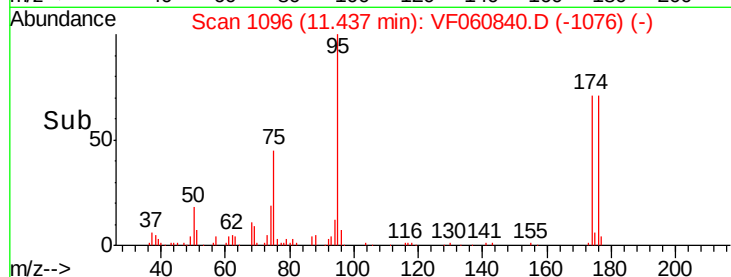
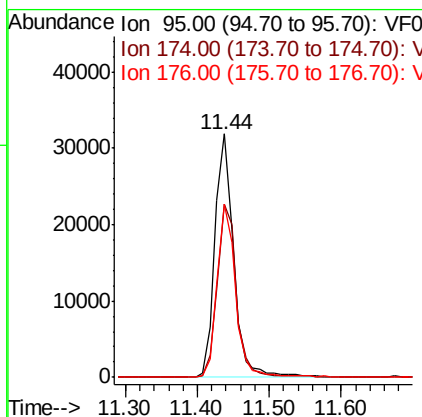
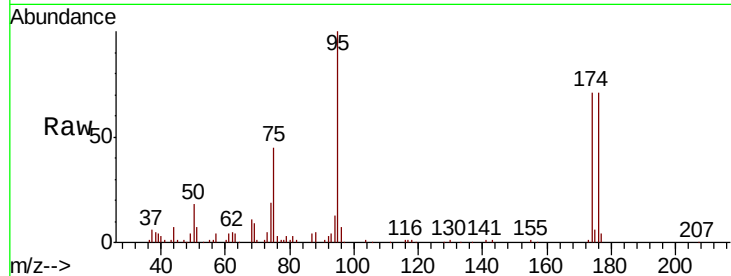




#62
4-Bromofluorobenzene
Concen: 35.119 ug/l
RT: 11.44 min Scan# 1096
Delta R.T. -0.00 min
Lab File: VF060840.D
Acq: 27 Nov 2018 15:58

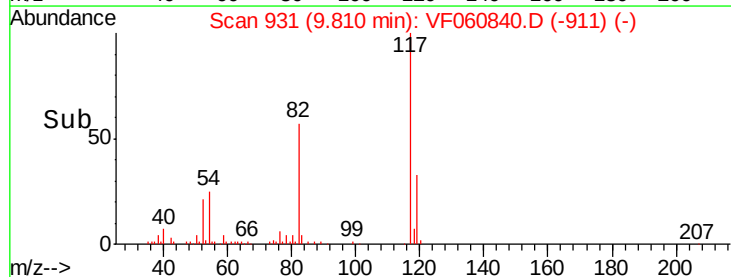
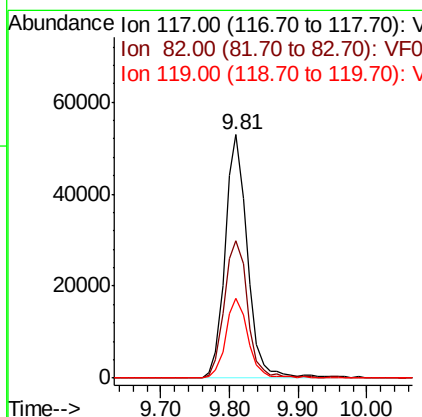
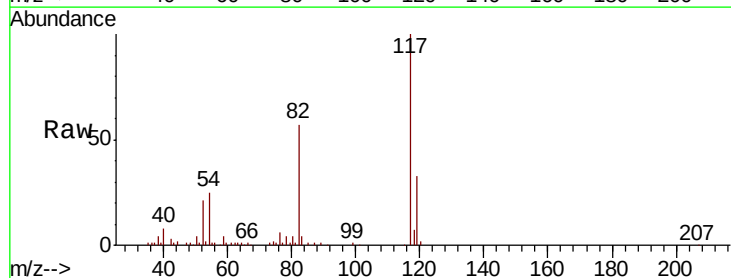
Instrument :
MSVOA_F
ClientSampleId :
001-WC-NY5

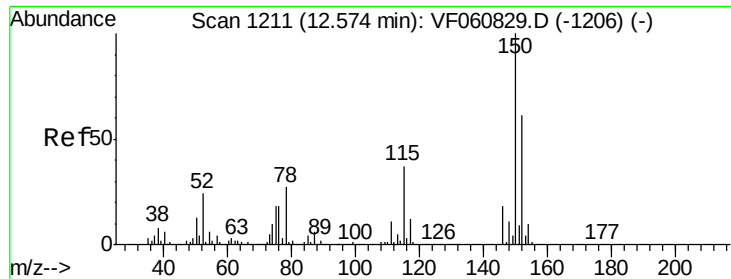
Tot Ion: 95 Resp: 56798
Ion Ratio Lower Upper
95 100
174 71.2 0.0 138.2
176 71.1 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF060840.D
Acq: 27 Nov 2018 15:58

Tgt Ion: 117 Resp: 119101
Ion Ratio Lower Upper
117 100
82 56.6 46.6 69.8
119 32.5 26.4 39.6



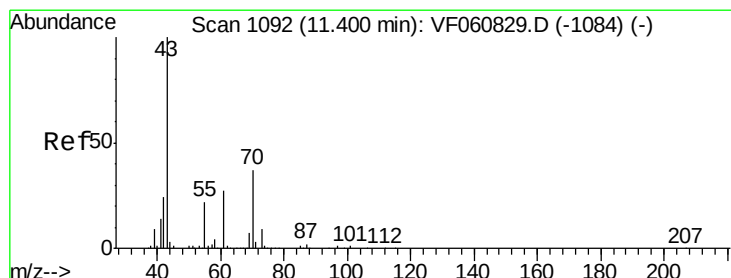
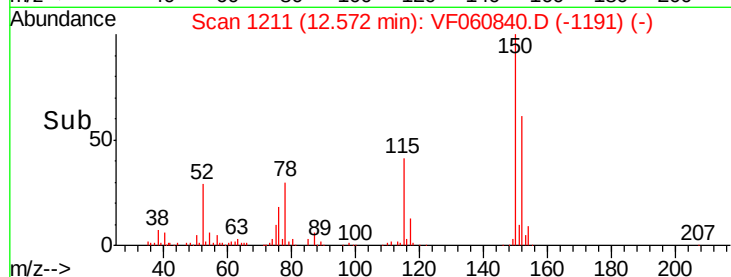
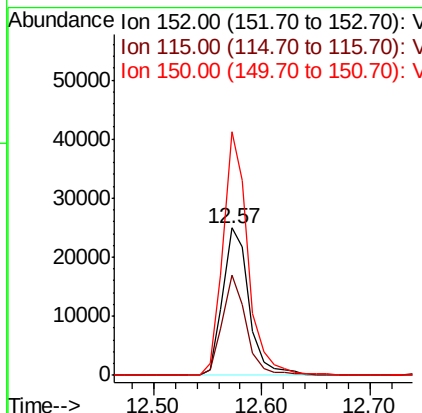
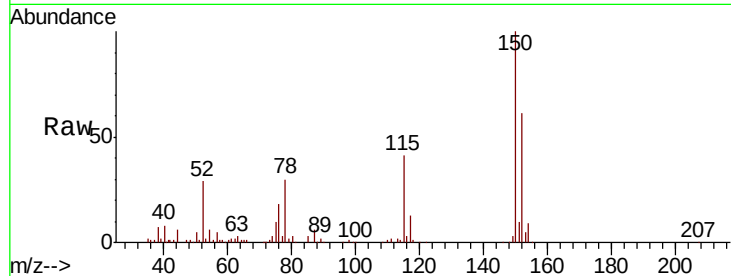


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VF060840.D
Acq: 27 Nov 2018 15:58

Instrument :
MSVOA_F
ClientSampleId :
001-WC-NY5

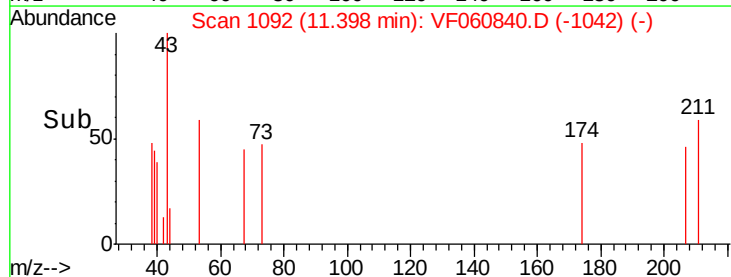
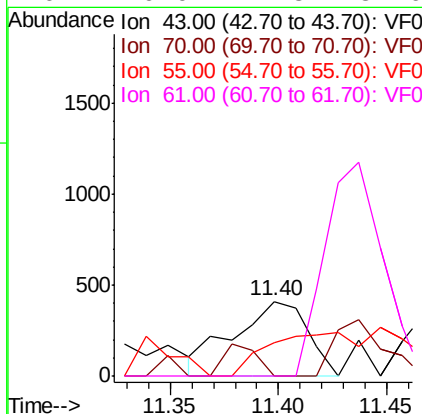
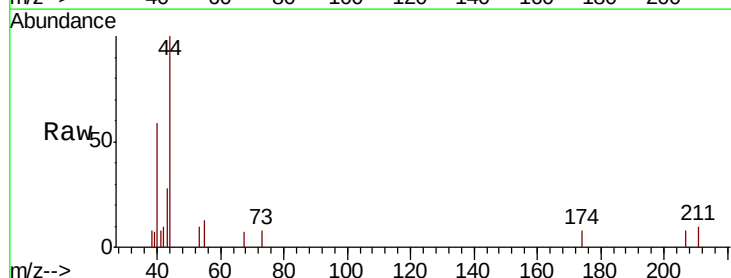
Tot Ion	Ratio	Lower	Upper
152	100		
115	68.4	30.1	90.5
150	165.3	0.0	327.6

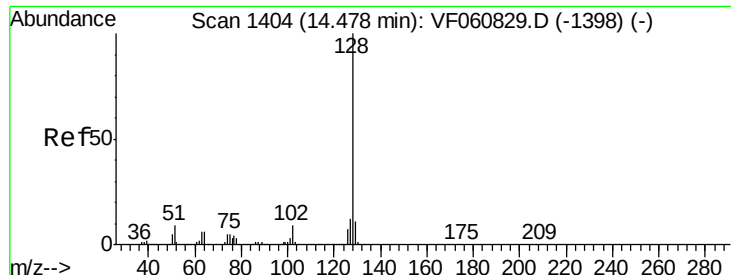


#74

N-ethyl acetate
Concen: 1.263 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.00 min
Lab File: VF060840.D
Acq: 27 Nov 2018 15:58

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.6	44.4#
55	45.4	17.2	25.8#
61	0.0	21.8	32.6#





#95

Naphthalene

Concen: 2.697 ug/l

RT: 14.48 min Scan# 1404

Delta R.T. -0.00 min

Lab File: VF060840.D

Acq: 27 Nov 2018 15:58

Instrument :

MSVOA_F

ClientSampleId :

001-WC-NY5

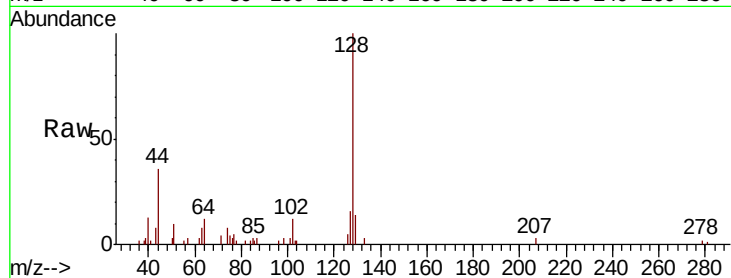
Tot Ion:128 Resp: 10708

Ion Ratio Lower Upper

128 100

127 16.4 9.9 14.9#

129 14.5 9.1 13.7#



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

