

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112918\
 Data File : VF060870.D
 Acq On : 29 Nov 2018 16:50
 Operator : VA/AP
 Sample : J5770-13
 Misc : 7.06g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-112918-A

Quant Time: Nov 30 05:58:40 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	4.87	168	216207	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.59	114	356743	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.78	117	315712	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.56	152	165162	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	141729	55.65	ug/l	-0.04
Spiked Amount			Recovery	=	111.30%	
35) Dibromofluoromethane	4.11	113	157905	55.79	ug/l	-0.04
Spiked Amount			Recovery	=	111.58%	
50) Toluene-d8	7.56	98	395869	47.48	ug/l	-0.04
Spiked Amount			Recovery	=	94.96%	
62) 4-Bromofluorobenzene	11.41	95	183701	48.48	ug/l	-0.03
Spiked Amount			Recovery	=	96.96%	

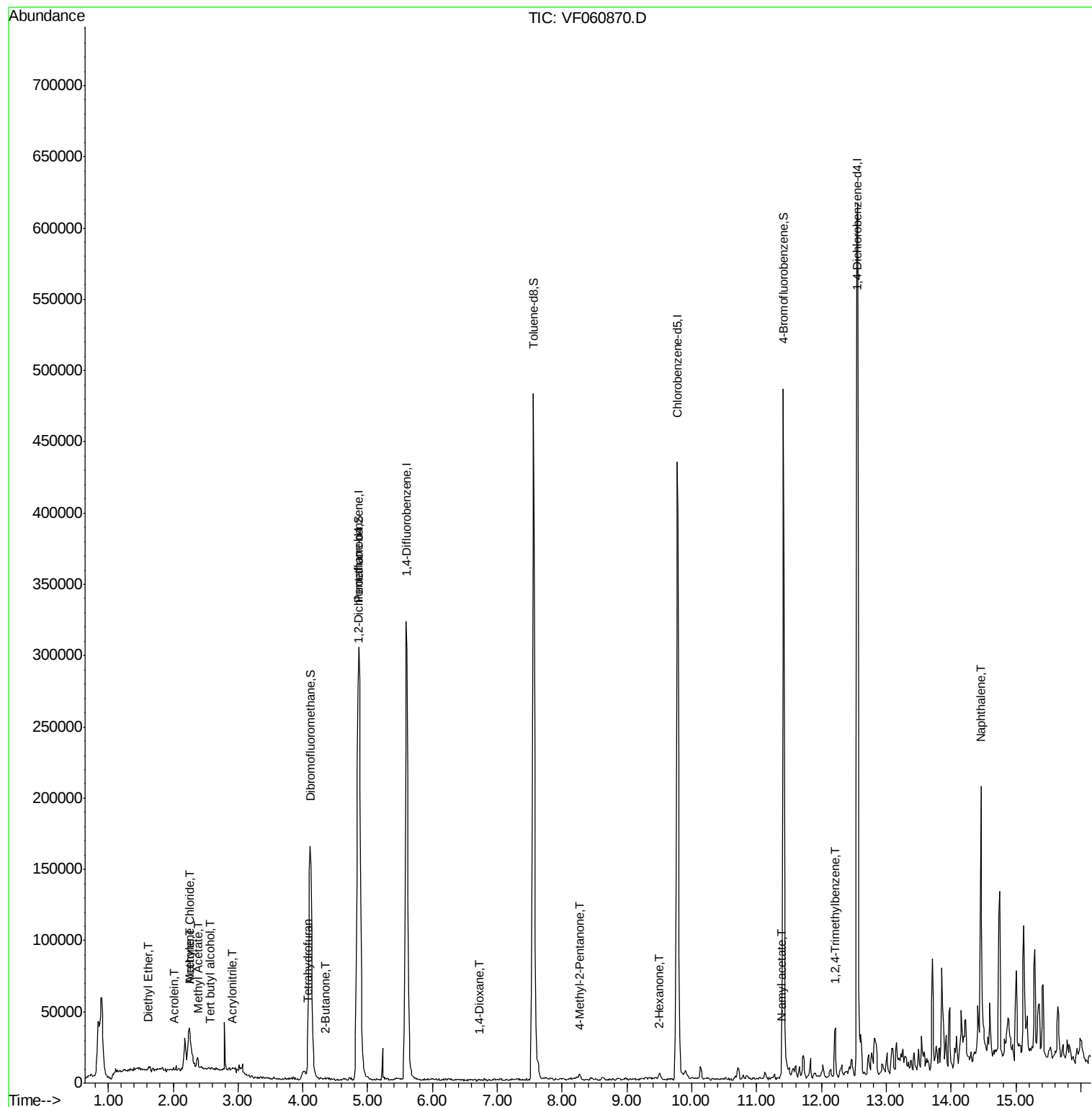
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.62	74	705	1.165	ug/l	83
11) Tert butyl alcohol	2.57	59	513	4.913	ug/l #	1
13) Acrolein	2.02	56	665	6.722	ug/l	83
15) Acrylonitrile	2.91	53	513	2.192	ug/l #	30
16) Acetone	2.24	43	13030	27.742	ug/l #	92
18) Methyl Acetate	2.38	43	3489	2.872	ug/l #	61
20) Methylene Chloride	2.25	84	19285	11.192	ug/l	89
25) 2-Butanone	4.33	43	1508	1.856	ug/l #	57
29) Tetrahydrofuran	4.06	42	1061	3.081	ug/l #	65
41) Methacrylonitrile	4.75	41	950	Below Cal	#	73
43) Isopropyl Acetate	6.96	43	1128	Below Cal	#	78
49) 1,4-Dioxane	6.73	88	69	6.477	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	3317	2.237	ug/l #	75
59) 2-Hexanone	9.50	43	3704	3.561	ug/l	79
74) N-amyl acetate	11.37	43	3469	1.151	ug/l #	86
84) 1,2,4-Trimethylbenzene	12.21	105	17254	1.632	ug/l	94
95) Naphthalene	14.46	128	96399	11.066	ug/l	97

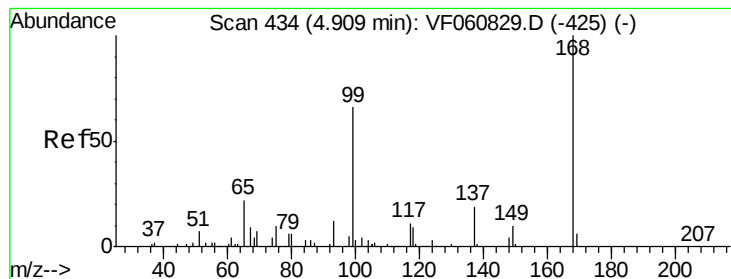
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060870.D

Acq: 29 Nov 2018 16:50

Instrument :

MSVOA_F

ClientSampleId :

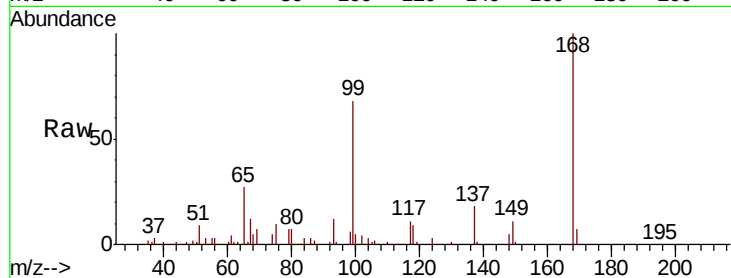
OR-03-112918-A

Tot Ion:168 Resp: 216207

Ion Ratio Lower Upper

168 100

99 67.8 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

60000

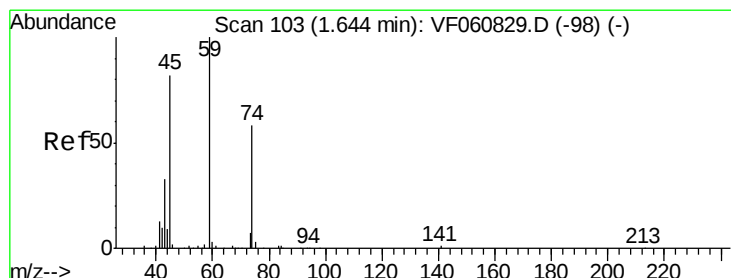
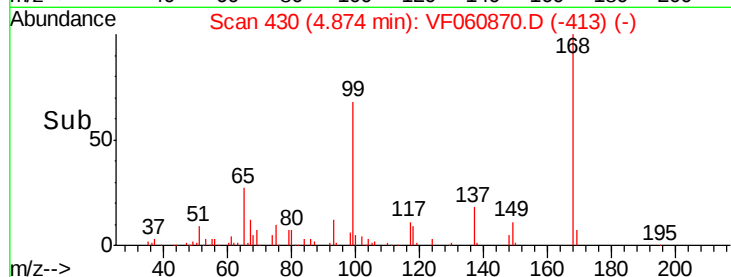
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#8

Diethyl Ether

Concen: 1.165 ug/l

RT: 1.62 min Scan# 100

Delta R.T. -0.03 min

Lab File: VF060870.D

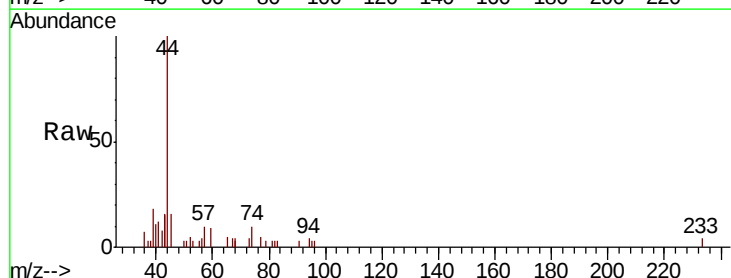
Acq: 29 Nov 2018 16:50

Tgt Ion: 74 Resp: 705

Ion Ratio Lower Upper

74 100

45 162.5 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

800

600

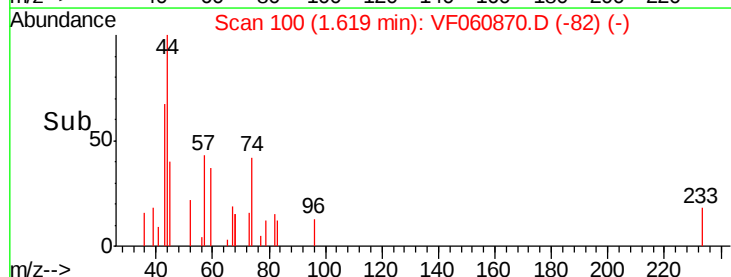
400

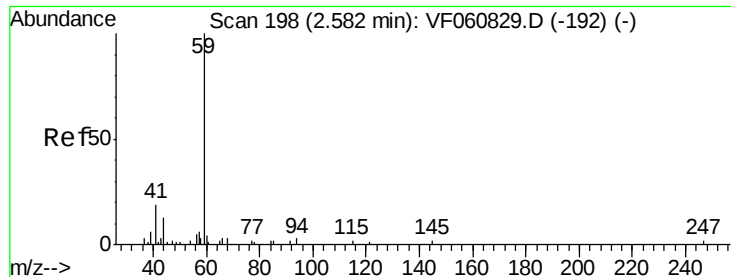
200

0

1.55 1.60 1.65

Time-->

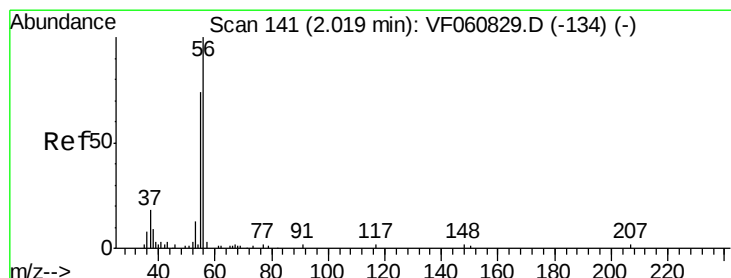
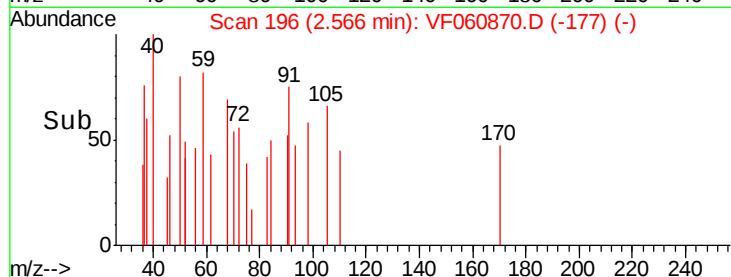
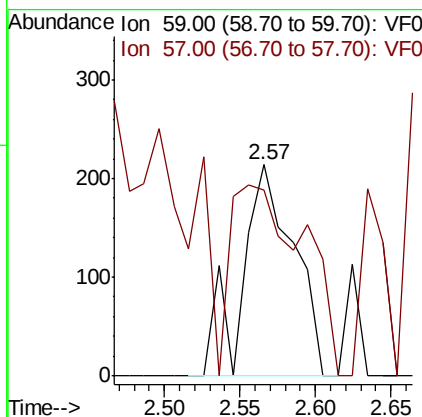
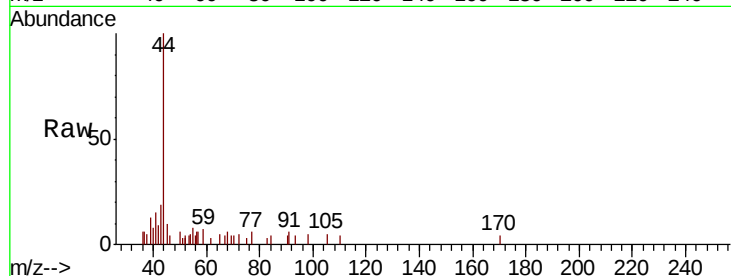




#11
Tert butyl alcohol
Concen: 4.913 ug/l
RT: 2.57 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF060870.D
Acq: 29 Nov 2018 16:50

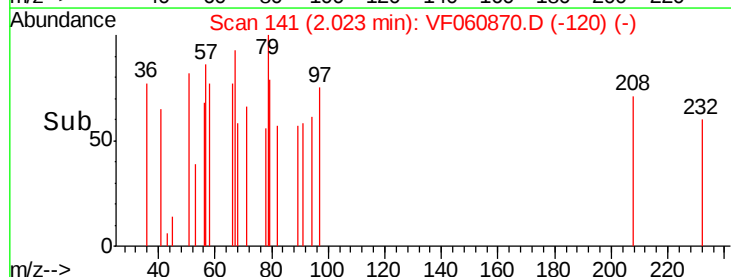
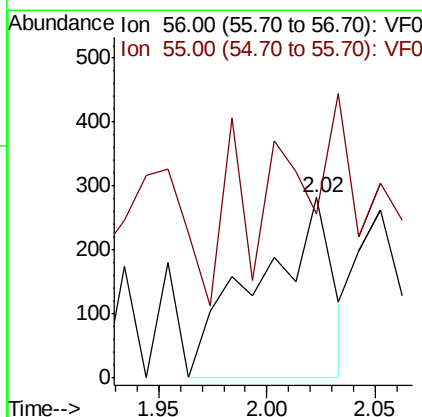
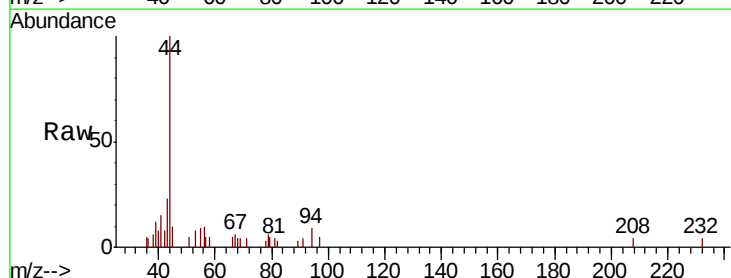
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-A

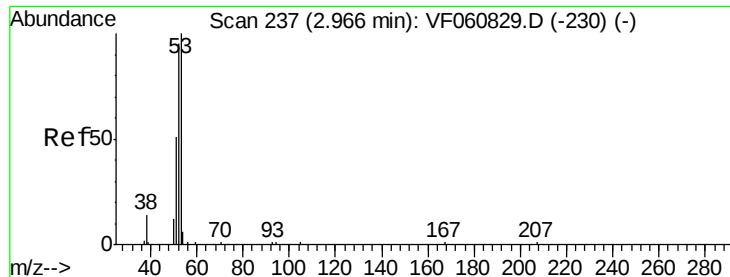
Tot Ion: 59 Resp: 513
Ion Ratio Lower Upper
59 100
57 87.9 12.7 19.1#



#13
Acrolein
Concen: 6.722 ug/l
RT: 2.02 min Scan# 141
Delta R.T. 0.00 min
Lab File: VF060870.D
Acq: 29 Nov 2018 16:50

Tgt Ion: 56 Resp: 665
Ion Ratio Lower Upper
56 100
55 90.8 61.2 91.8





#15

Acrylonitrile

Concen: 2.192 ug/l

RT: 2.91 min Scan# 231

Delta R.T. -0.06 min

Lab File: VF060870.D

Acq: 29 Nov 2018 16:50

Instrument :

MSVOA_F

ClientSampleId :

OR-03-112918-A

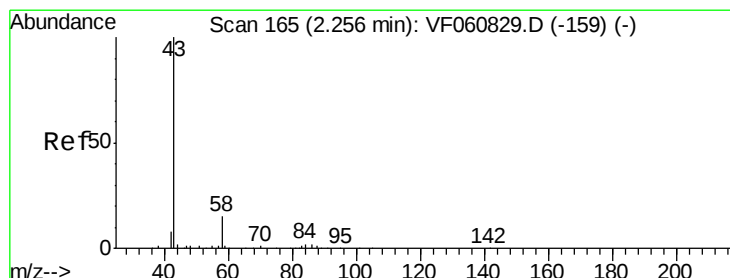
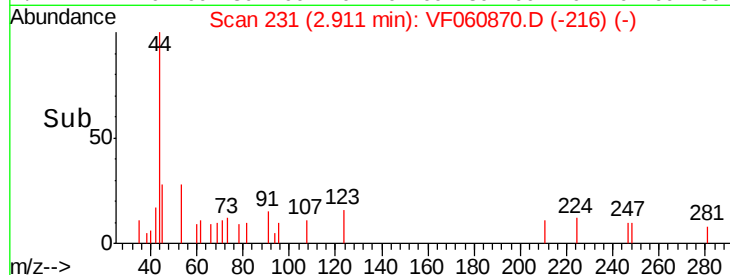
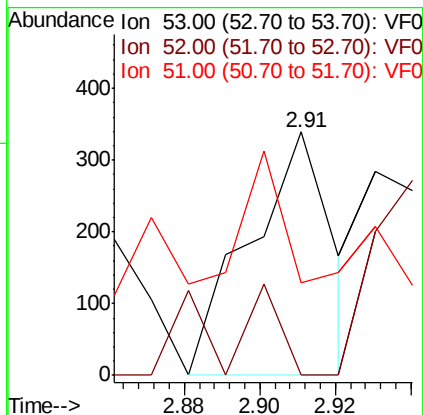
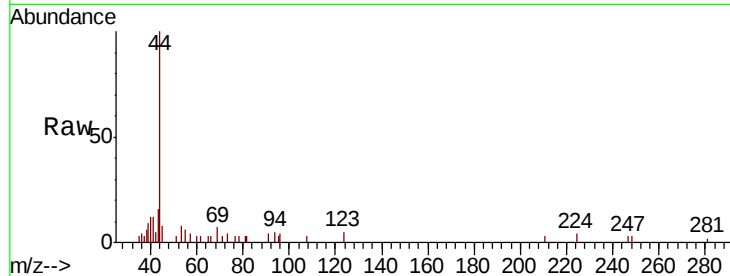
Tot Ion: 53 Resp: 513

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 38.3 40.7 61.1#



#16

Acetone

Concen: 27.742 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060870.D

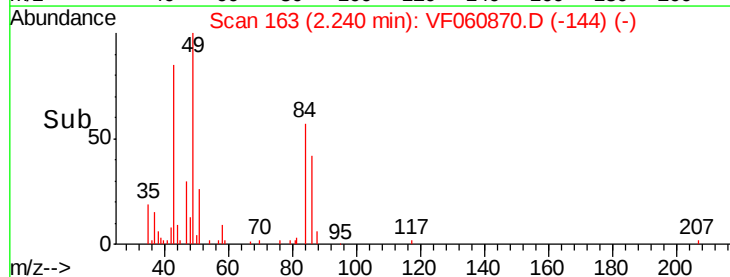
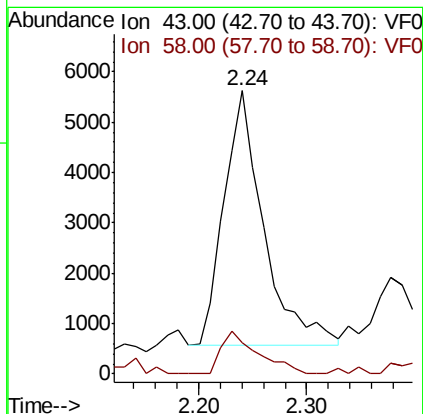
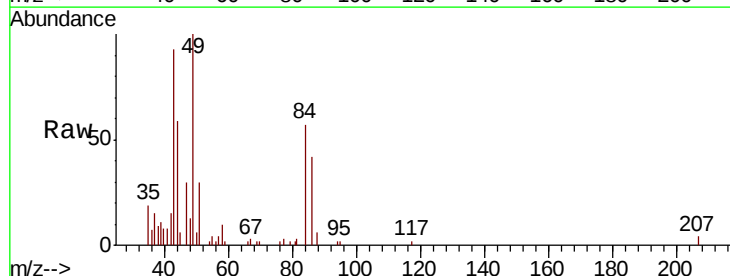
Acq: 29 Nov 2018 16:50

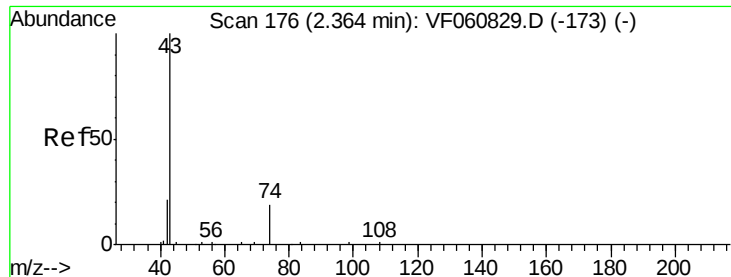
Tgt Ion: 43 Resp: 13030

Ion Ratio Lower Upper

43 100

58 11.0 11.4 17.2#





#18

Methyl Acetate

Concen: 2.872 ug/l

RT: 2.38 min Scan# 177

Delta R.T. 0.01 min

Lab File: VF060870.D

Acq: 29 Nov 2018 16:50

Instrument :

MSVOA_F

ClientSampleId :

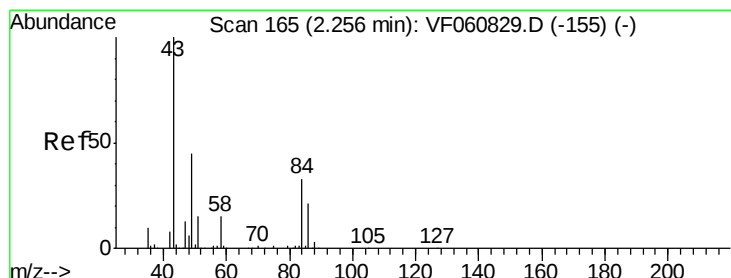
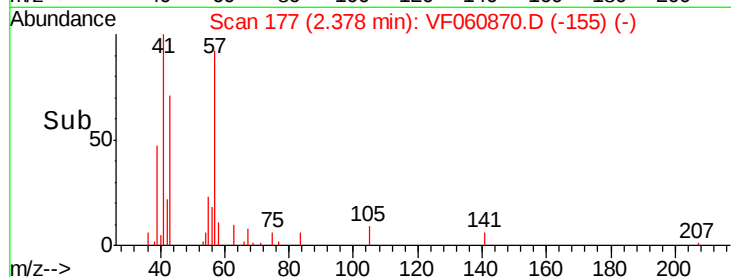
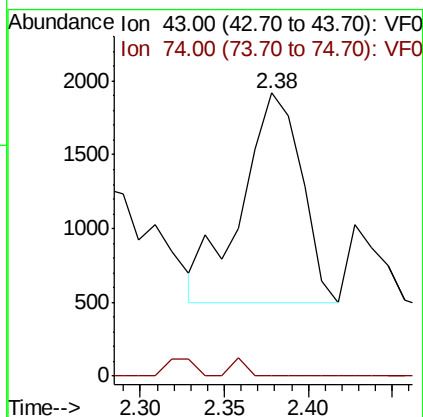
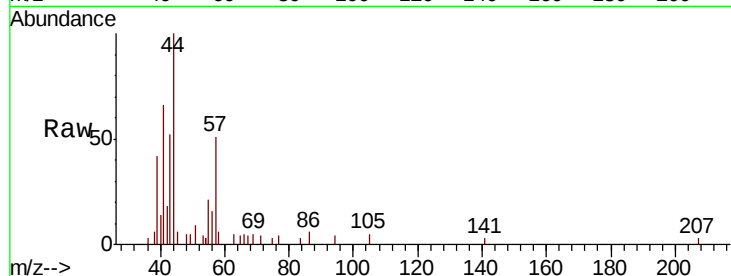
OR-03-112918-A

Tot Ion: 43 Resp: 3489

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#



#20

Methylene Chloride

Concen: 11.192 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060870.D

Acq: 29 Nov 2018 16:50

Tgt Ion: 84 Resp: 19285

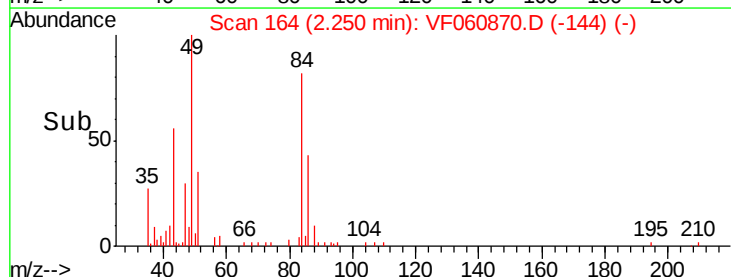
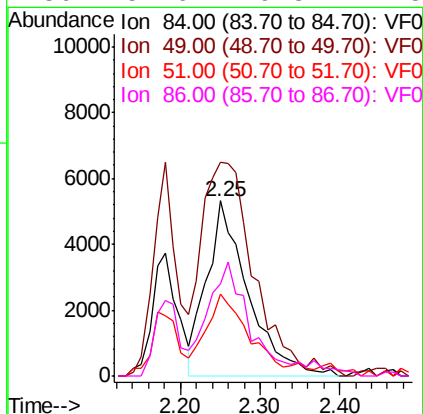
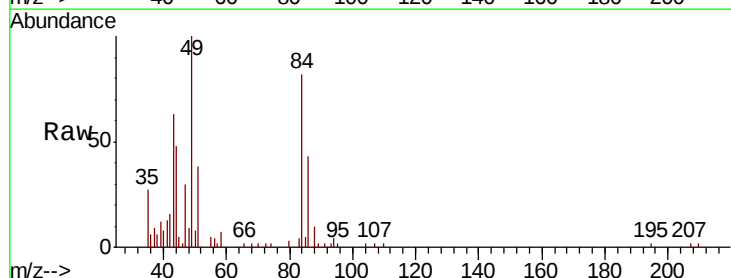
Ion Ratio Lower Upper

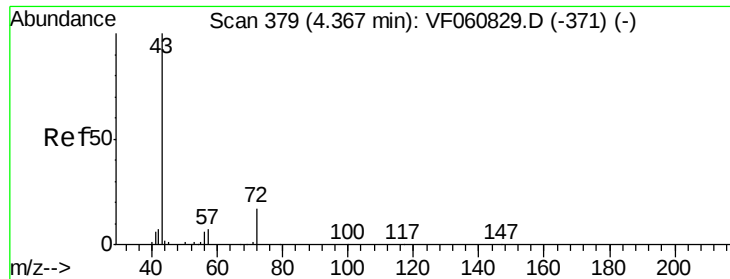
84 100

49 122.1 111.3 166.9

51 46.8 38.0 57.0

86 52.6 49.8 74.8





#25

2-Butanone

Concen: 1.856 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.04 min

Lab File: VF060870.D

Acq: 29 Nov 2018 16:50

Instrument :

MSVOA_F

ClientSampleId :

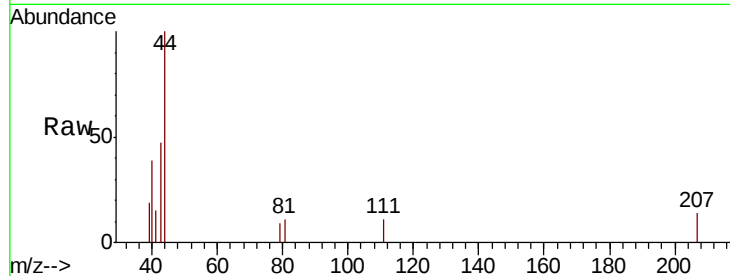
OR-03-112918-A

Tot Ion: 43 Resp: 1508

Ion Ratio Lower Upper

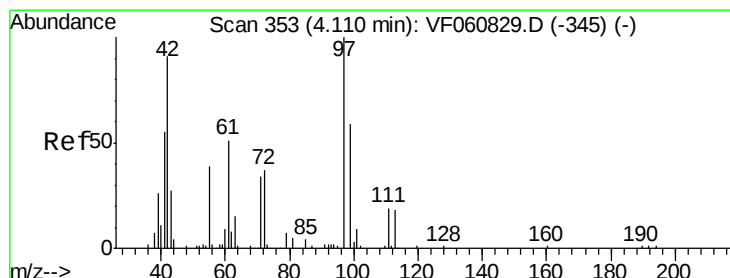
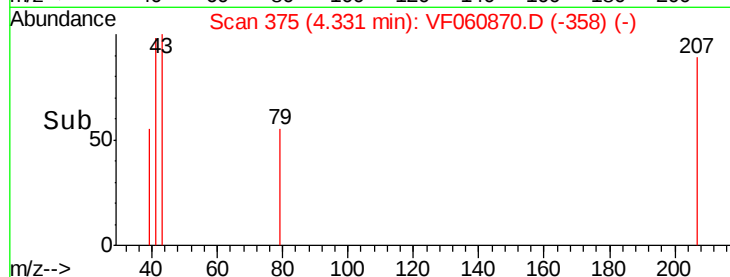
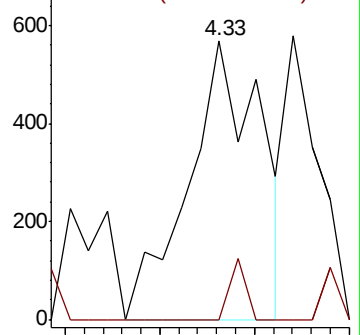
43 100

72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 3.081 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.05 min

Lab File: VF060870.D

Acq: 29 Nov 2018 16:50

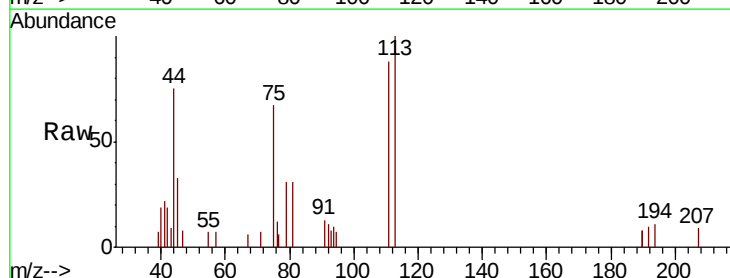
Tgt Ion: 42 Resp: 1061

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

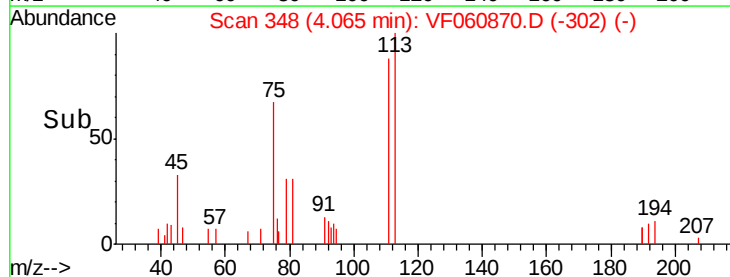
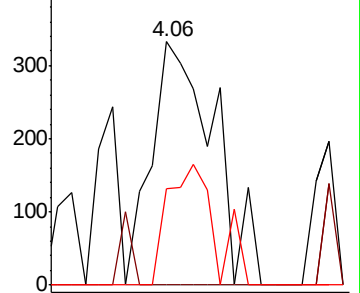
71 36.9 28.7 43.1

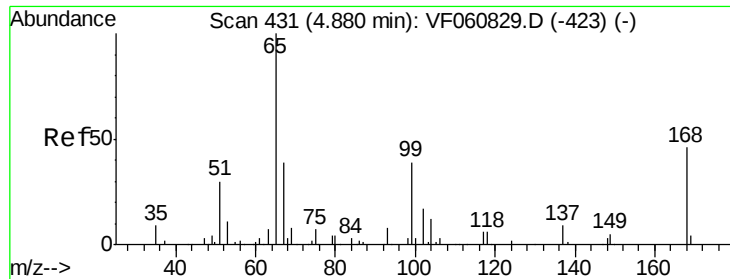


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 55.646 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF060870.D

Acq: 29 Nov 2018 16:50

Instrument :

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ClientSampleId :

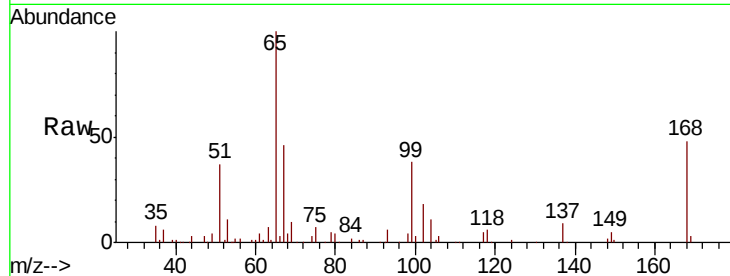
OR-03-112918-A

Tot Ion: 65 Resp: 141729

Ion Ratio Lower Upper

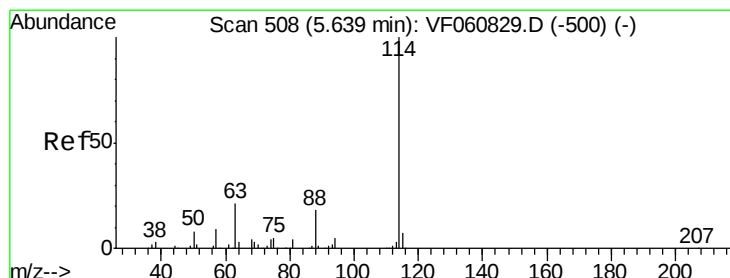
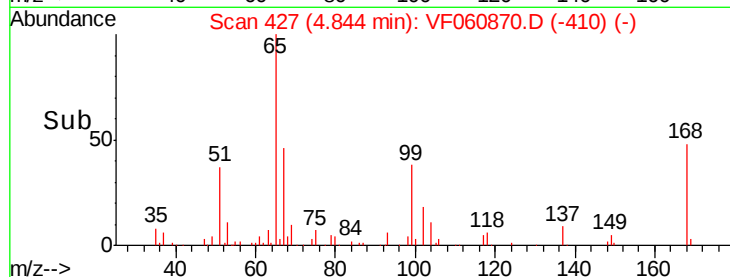
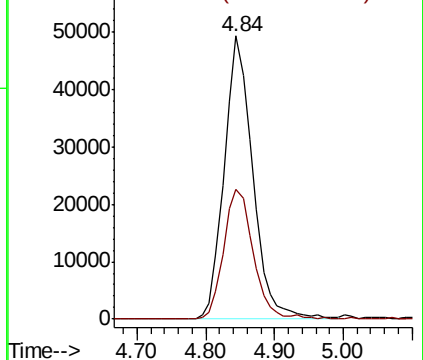
65 100

67 45.8 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: 5.59 min Scan# 503

Delta R.T. -0.05 min

Lab File: VF060870.D

Acq: 29 Nov 2018 16:50

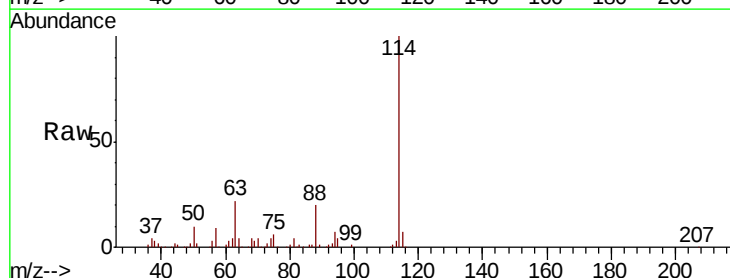
Tgt Ion: 114 Resp: 356743

Ion Ratio Lower Upper

114 100

63 22.2 0.0 41.6

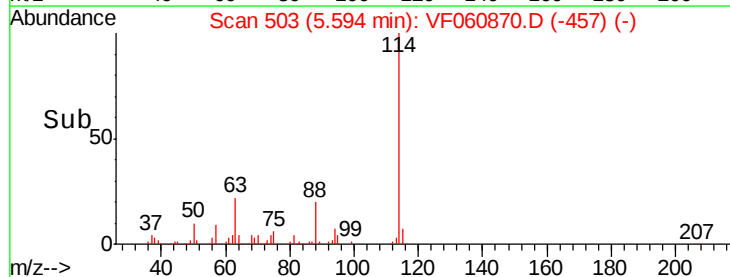
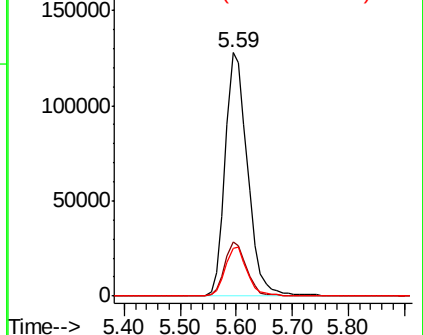
88 19.9 0.0 36.6

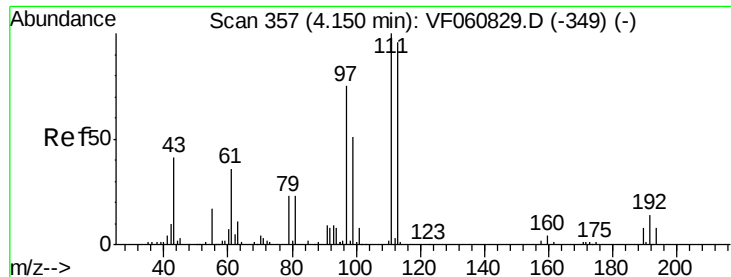


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

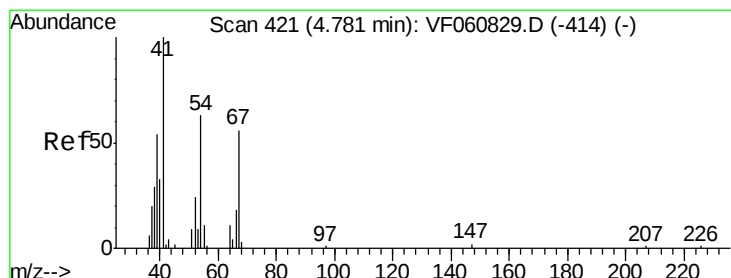
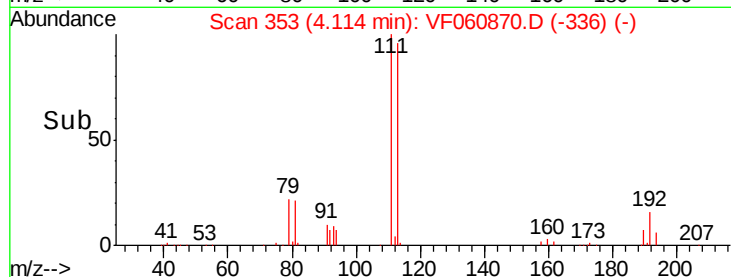
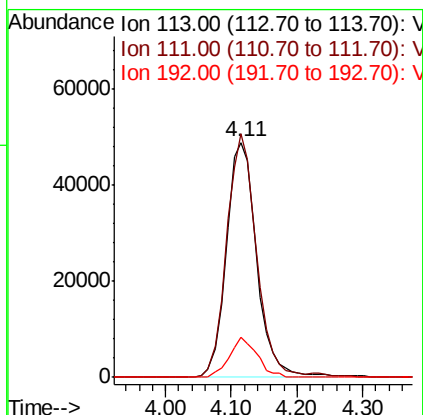
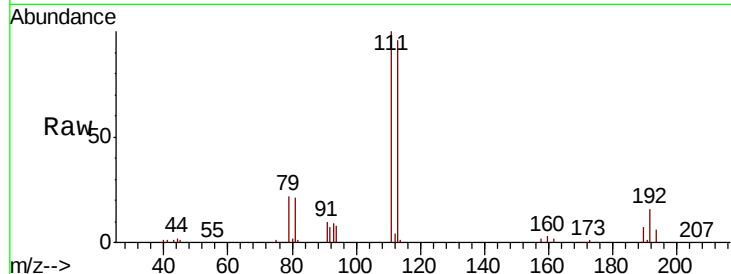




#35
Dibromofluoromethane
Concen: 55.794 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF060870.D
Acq: 29 Nov 2018 16:50

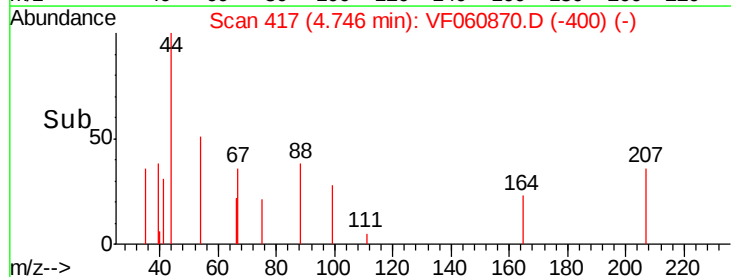
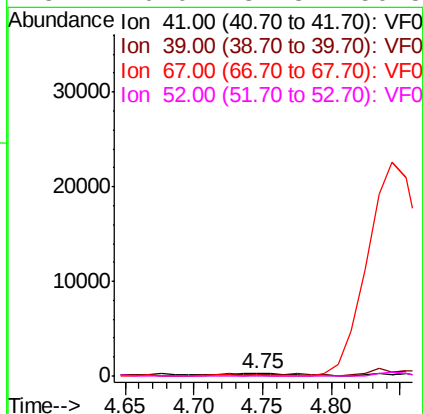
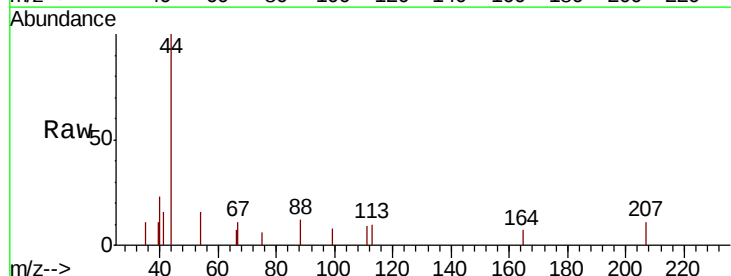
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ClientSampleId :
OR-03-112918-A

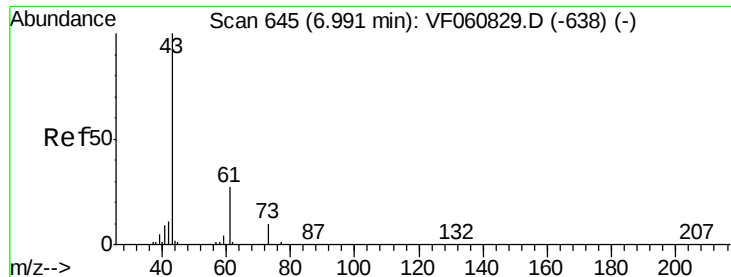
Tot Ion:113 Resp: 157905
Ion Ratio Lower Upper
113 100
111 103.7 83.0 124.6
192 17.1 12.3 18.5



#41
Methacrylonitrile
Concen: Below Cal
RT: 4.75 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060870.D
Acq: 29 Nov 2018 16:50

Tgt Ion: 41 Resp: 950
Ion Ratio Lower Upper
41 100
39 70.4 53.0 79.6
67 66.5 43.8 65.6#
52 0.0 37.8 56.8#



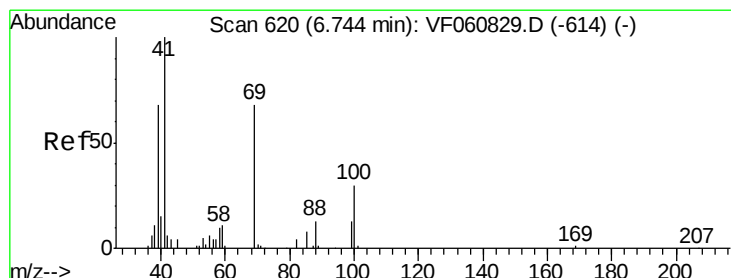
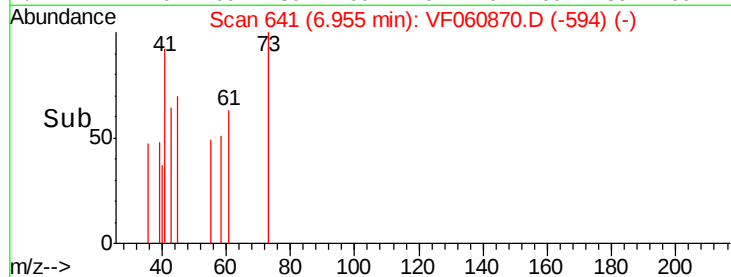
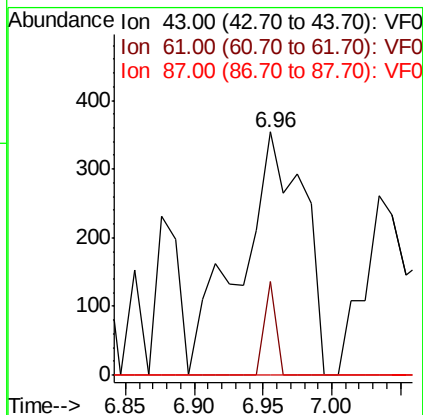
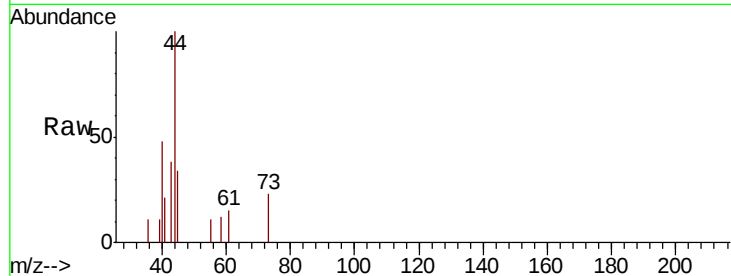


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.96 min Scan# 641
 Delta R.T. -0.03 min
 Lab File: VF060870.D
 Acq: 29 Nov 2018 16:50

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-112918-A

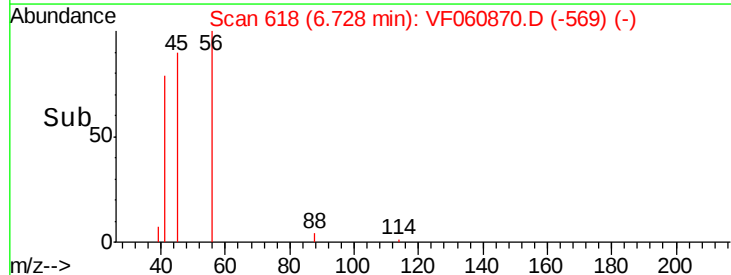
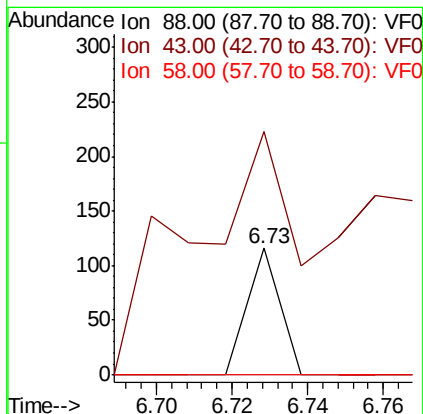
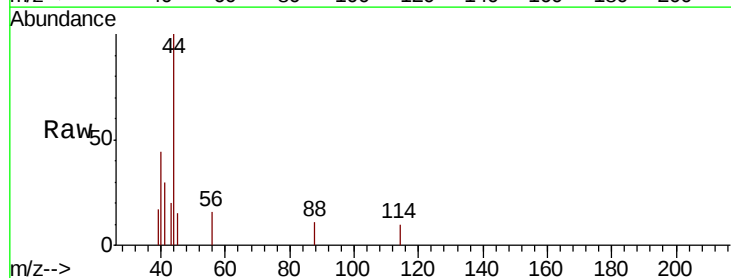
Tot Ion: 43 Resp: 1128
 Ion Ratio Lower Upper
 43 100
 61 38.4 21.4 32.0#
 87 0.0 0.2 0.4#

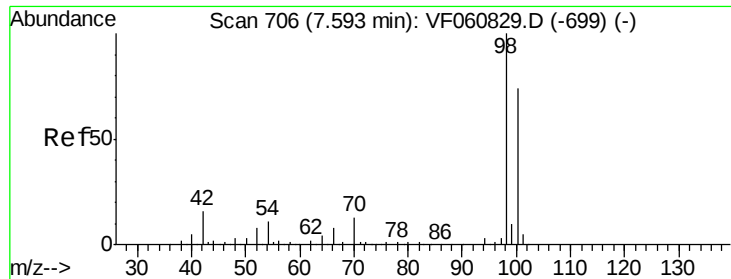


#49

1,4-Dioxane
 Concen: 6.477 ug/l
 RT: 6.73 min Scan# 618
 Delta R.T. -0.02 min
 Lab File: VF060870.D
 Acq: 29 Nov 2018 16:50

Tgt Ion: 88 Resp: 69
 Ion Ratio Lower Upper
 88 100
 43 192.2 42.0 63.0#
 58 0.0 61.8 92.8#





#50

Toluene-d8

Concen: 47.485 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF060870.D

Acq: 29 Nov 2018 16:50

Instrument :

MSVOA_F

ClientSampleId :

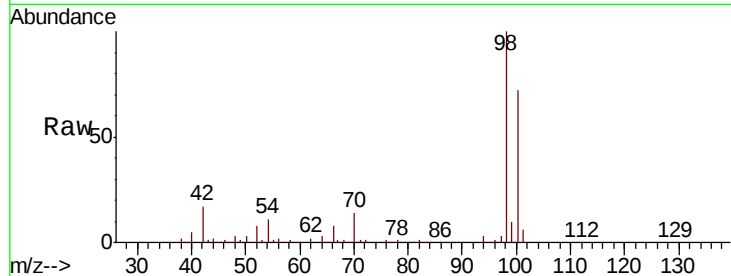
OR-03-112918-A

Tot Ion: 98 Resp: 395869

Ion Ratio Lower Upper

98 100

100 71.6 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.56

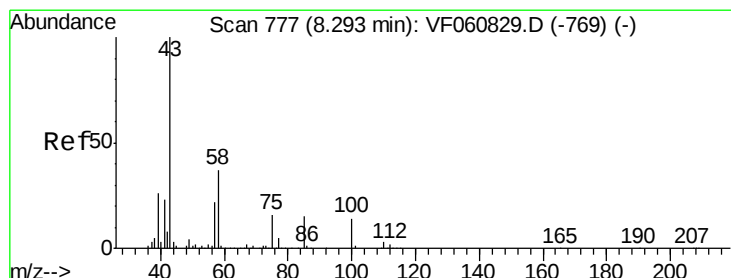
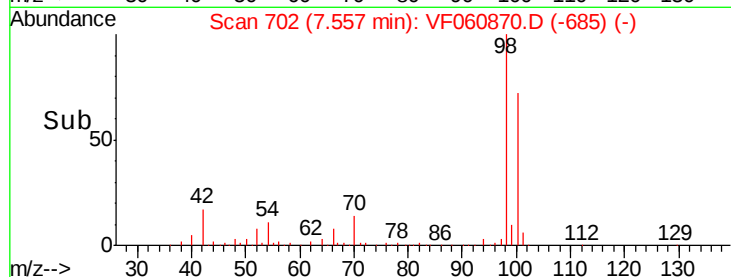
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.237 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF060870.D

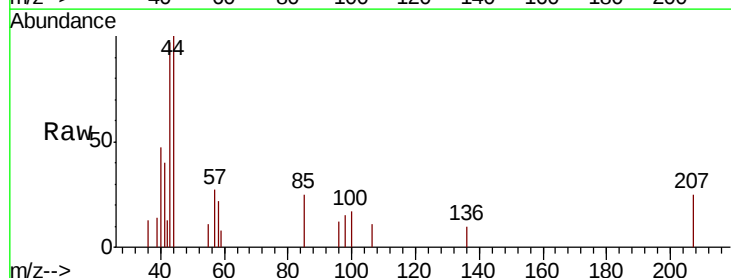
Acq: 29 Nov 2018 16:50

Tgt Ion: 43 Resp: 3317

Ion Ratio Lower Upper

43 100

58 22.4 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

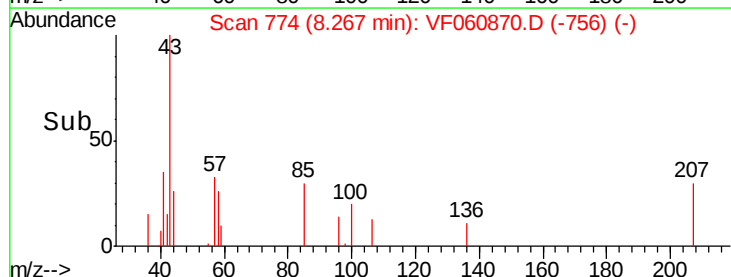
8.27

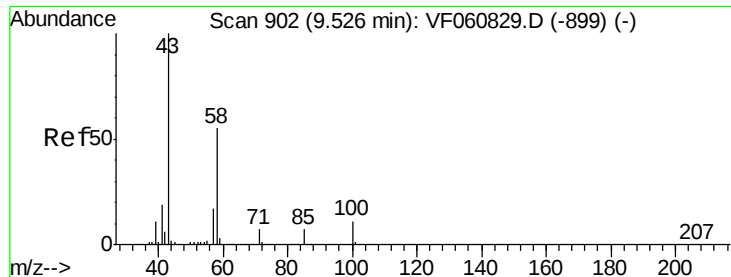
1000

500

0

Time-->

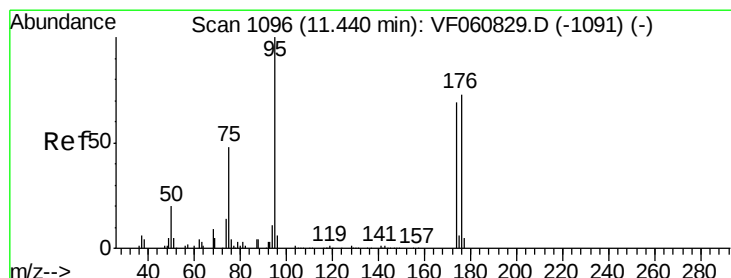
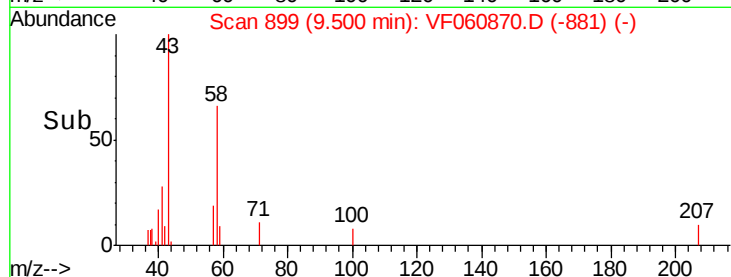
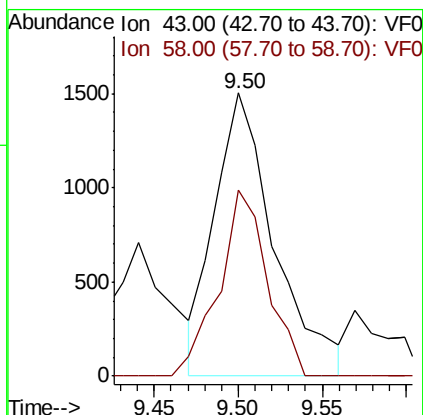
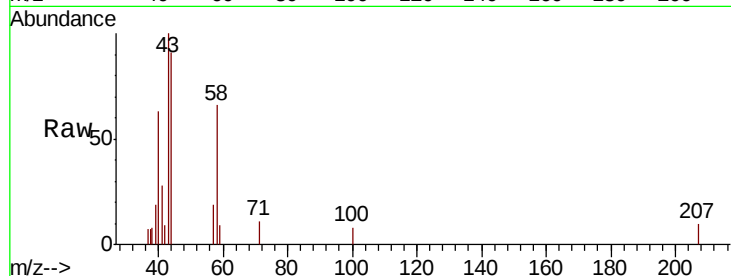




#59
2-Hexanone
Concen: 3.561 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF060870.D
Acq: 29 Nov 2018 16:50

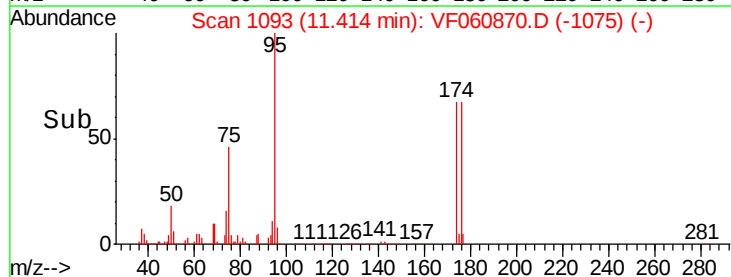
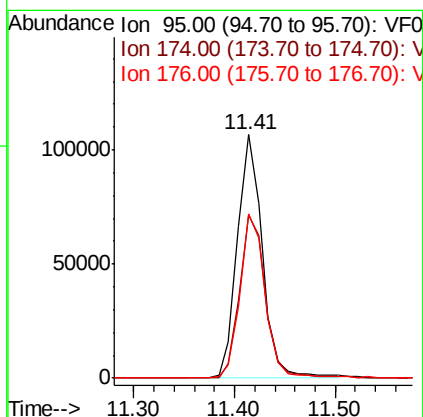
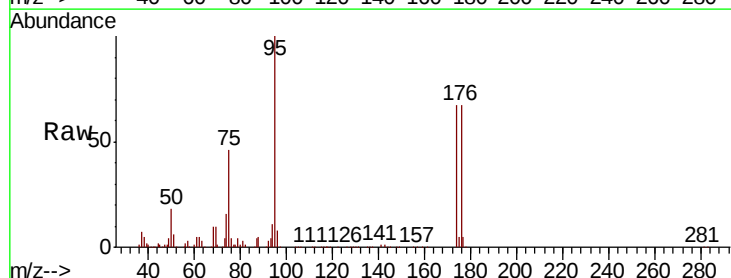
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-A

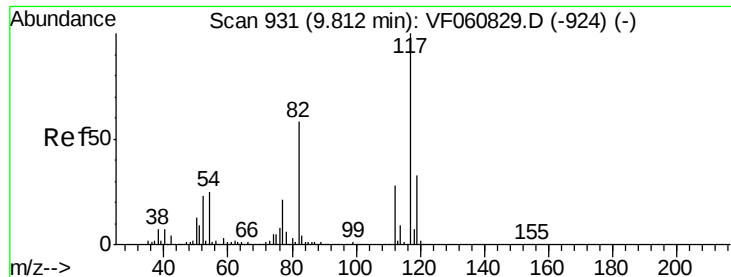
Tot Ion: 43 Resp: 3704
Ion Ratio Lower Upper
43 100
58 65.7 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 48.484 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF060870.D
Acq: 29 Nov 2018 16:50

Tgt Ion: 95 Resp: 183701
Ion Ratio Lower Upper
95 100
174 66.9 0.0 138.2
176 67.4 0.0 146.2

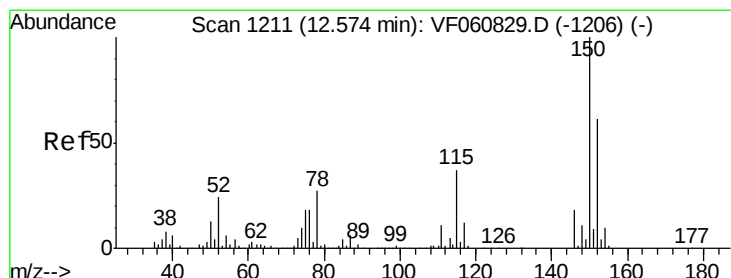
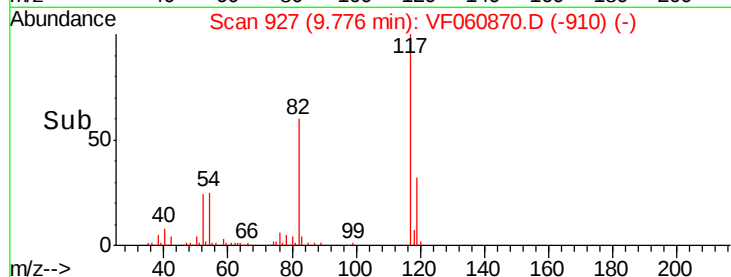
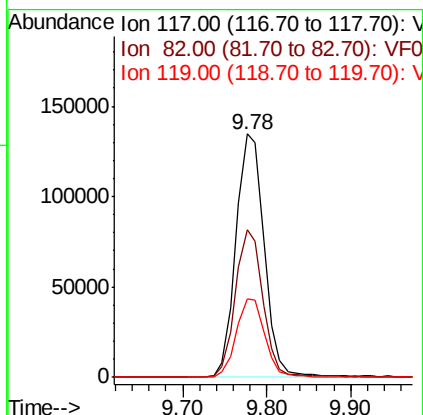
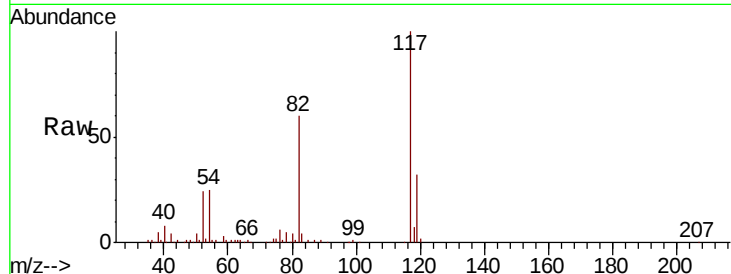




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060870.D
Acq: 29 Nov 2018 16:50

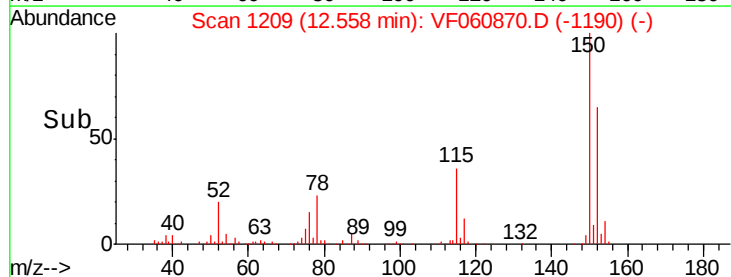
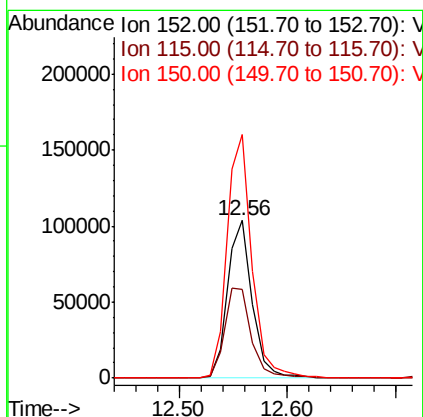
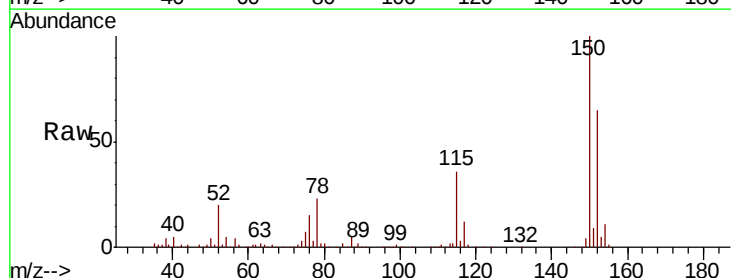
Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-A

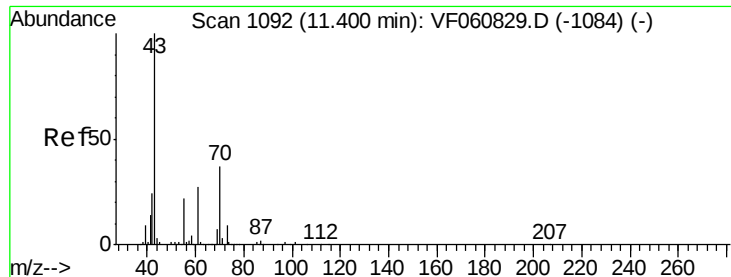
Tot Ion:117 Resp: 315712
Ion Ratio Lower Upper
117 100
82 60.4 46.6 69.8
119 32.4 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060870.D
Acq: 29 Nov 2018 16:50

Tgt Ion:152 Resp: 165162
Ion Ratio Lower Upper
152 100
115 56.1 30.1 90.5
150 154.7 0.0 327.6





#74

N-amvl acetate

Concen: 1.151 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF060870.D

Acq: 29 Nov 2018 16:50

Instrument :

MSVOA_F

ClientSampleId :

OR-03-112918-A

Tot Ion: 43 Resp: 3469

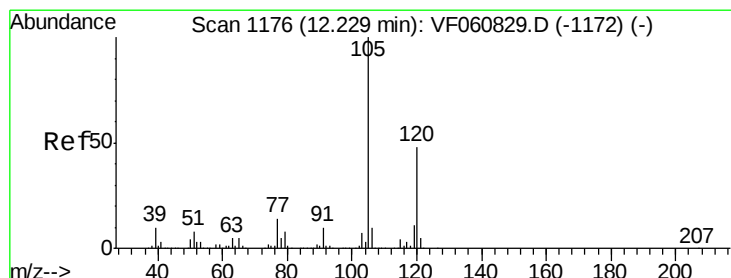
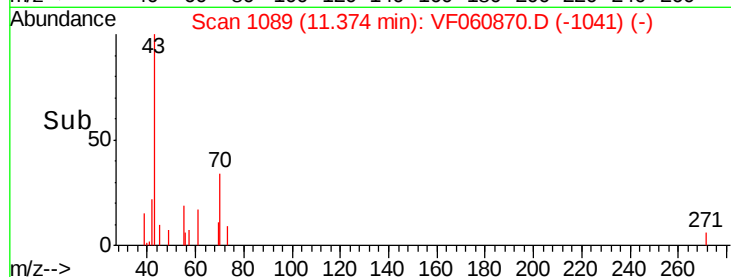
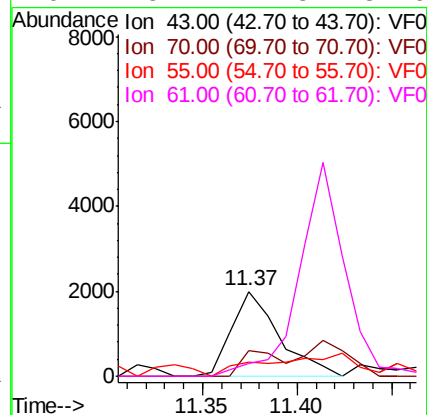
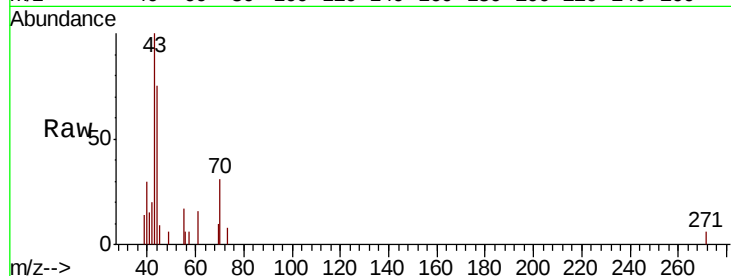
Ion Ratio Lower Upper

43 100

70 30.6 29.6 44.4

55 16.7 17.2 25.8#

61 15.7 21.8 32.6#



#84

1,2,4-Trimethylbenzene

Concen: 1.632 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. -0.02 min

Lab File: VF060870.D

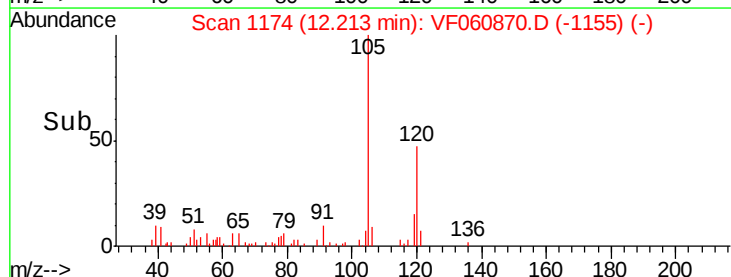
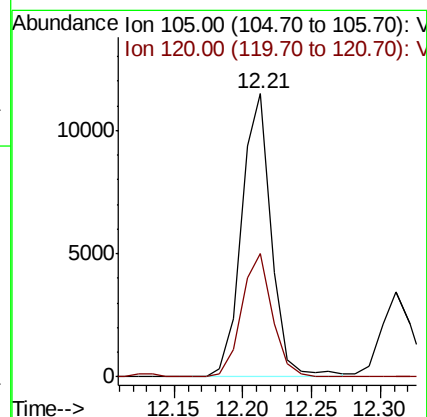
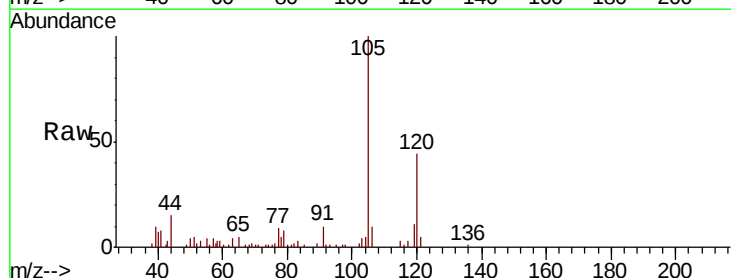
Acq: 29 Nov 2018 16:50

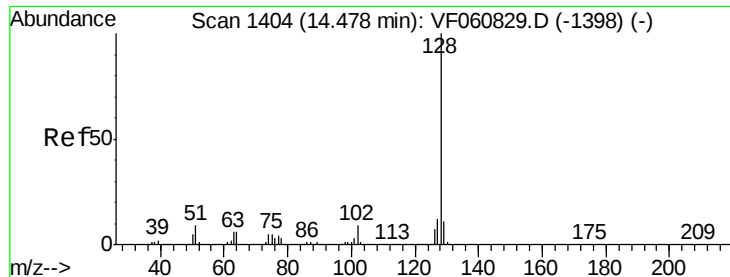
Tgt Ion: 105 Resp: 17254

Ion Ratio Lower Upper

105 100

120 43.5 23.8 71.5





#95
Naphthalene
Concen: 11.066 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF060870.D
Acq: 29 Nov 2018 16:50

Instrument :
MSVOA_F
ClientSampleId :
OR-03-112918-A

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.4	9.9	14.9
129	11.7	9.1	13.7

