

Data File : VF060714.D
Acq On : 13 Nov 2018 16:05
Operator : VA/AP
Sample : VF1113SBL01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF1113SBL01

Quant Time: Nov 14 03:21:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	237884	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	403031	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.79	117	375511	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	224706	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	126965	46.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.58%	
35) Dibromofluoromethane	4.13	113	150958	49.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.66%	
50) Toluene-d8	7.56	98	397222	51.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.36%	
62) 4-Bromofluorobenzene	11.42	95	204126	57.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.10%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	2.57	59	138	1.118	ug/l #	1
13) Acrolein	2.02	56	333	2.949	ug/l #	27
15) Acrylonitrile	2.93	53	365	1.387	ug/l #	62
16) Acetone	2.25	43	3331	5.744	ug/l	96
18) Methyl Acetate	2.39	43	1818	1.909	ug/l #	84
20) Methylene Chloride	2.19	84	5455	Below Cal		95
25) 2-Butanone	4.35	43	1915	2.007	ug/l #	82
29) Tetrahydrofuran	4.10	42	1520	3.863	ug/l #	56
41) Methacrylonitrile	4.73	41	782	Below Cal	#	53
49) 1,4-Dioxane	6.65	88	65	4.558	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	4464	2.679	ug/l	95
59) 2-Hexanone	9.51	43	8769	7.488	ug/l	87
74) N-ethyl acetate	11.38	43	4679	1.136	ug/l #	89

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

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VF1113SBL01

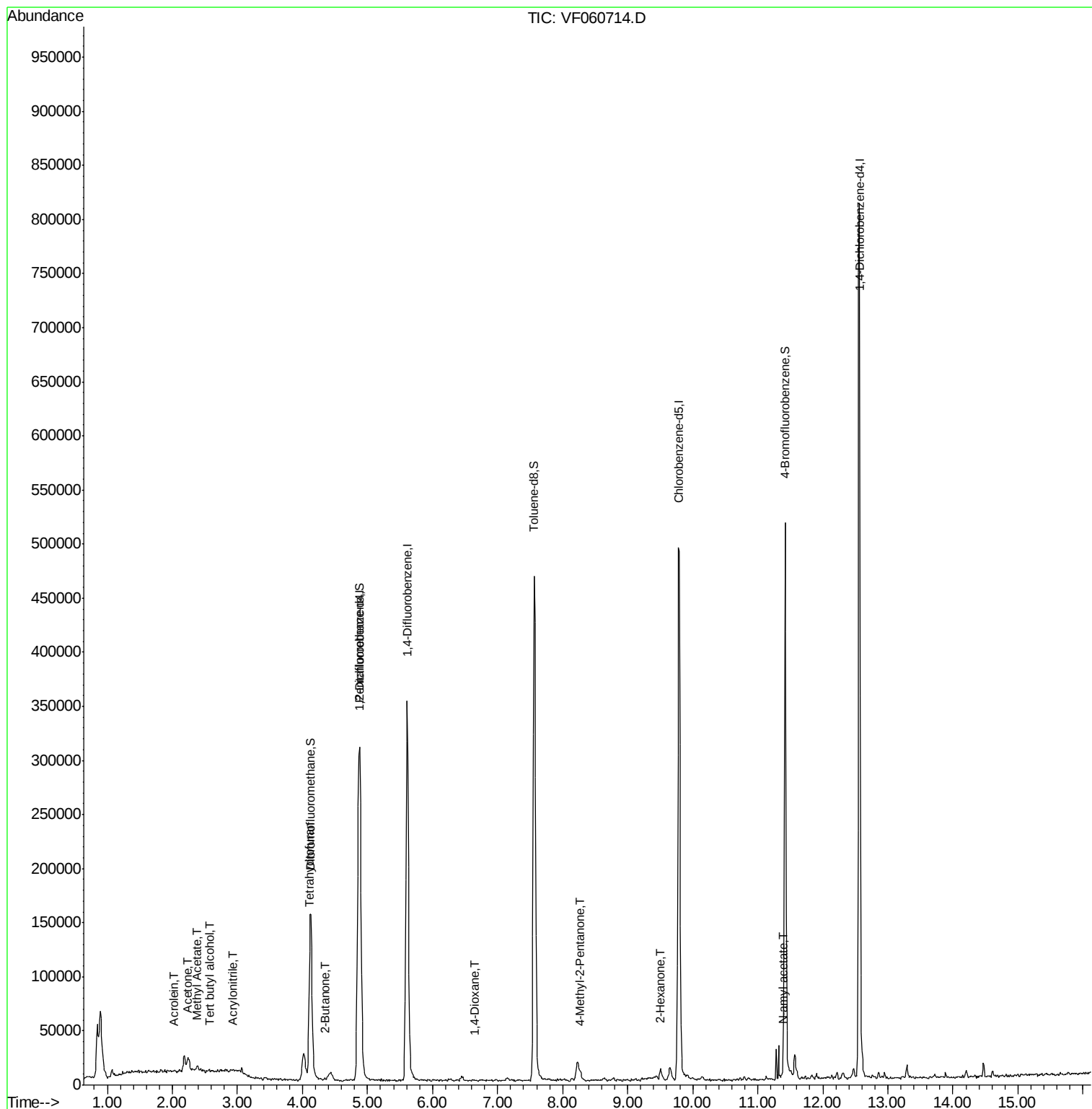
Quant Time: Nov 14 03:21:07 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M

Quant Title : SW846 8260

QLast Update : Wed Nov 14 03:11:14 2018

Response via : Initial Calibration

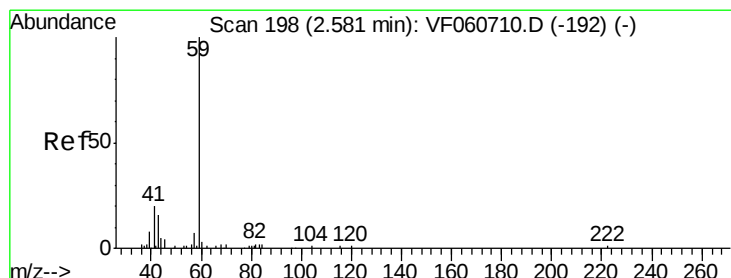
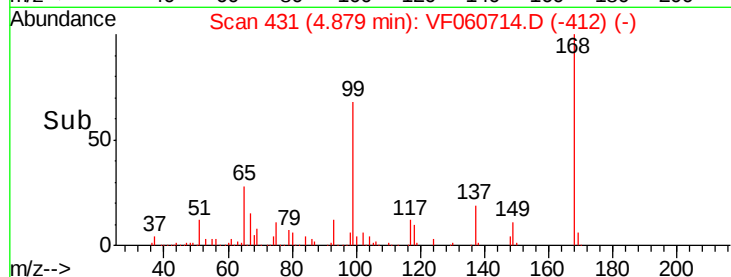
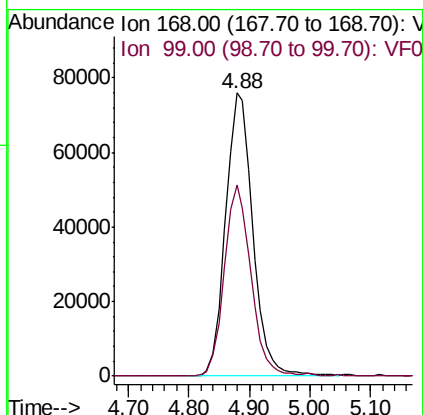
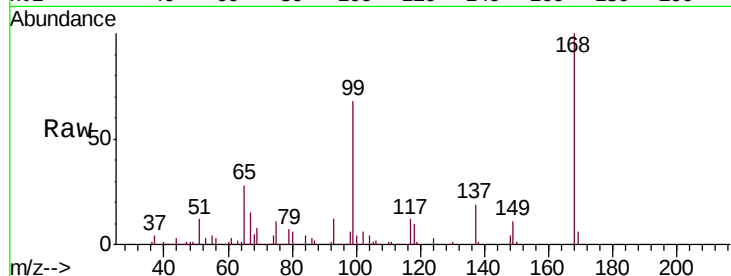




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.88 min Scan# 431
Delta R.T. -0.01 min
Lab File: VF060714.D
Acq: 13 Nov 2018 16:05

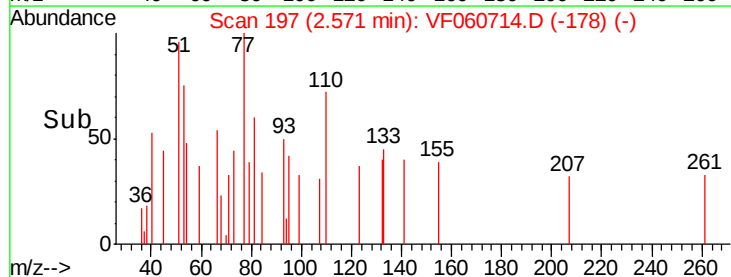
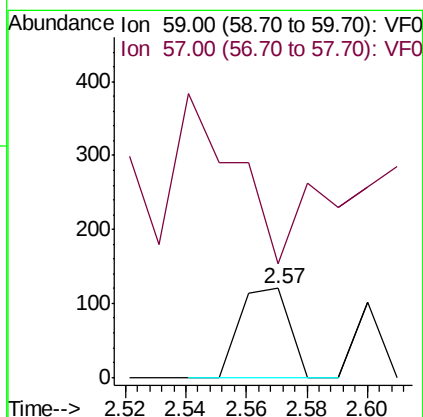
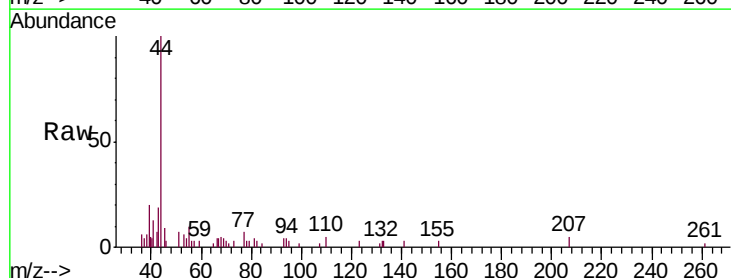
Instrument :
MSVOA_F
ClientSampleId :
VF1113SBL01

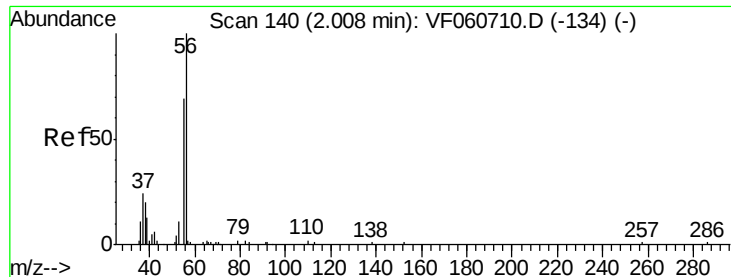
Tgt Ion:168 Resp: 237884
Ion Ratio Lower Upper
168 100
99 67.7 57.2 85.8



#11
Tert butyl alcohol
Concen: 1.118 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF060714.D
Acq: 13 Nov 2018 16:05

Tgt Ion: 59 Resp: 138
Ion Ratio Lower Upper
59 100
57 127.5 10.5 15.7#





#13

Acrolein

Concen: 2.949 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.01 min

Lab File: VF060714.D

Acq: 13 Nov 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

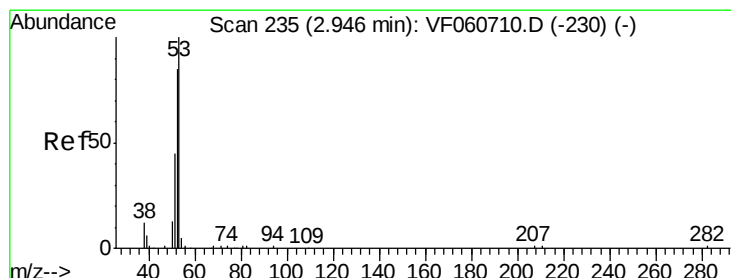
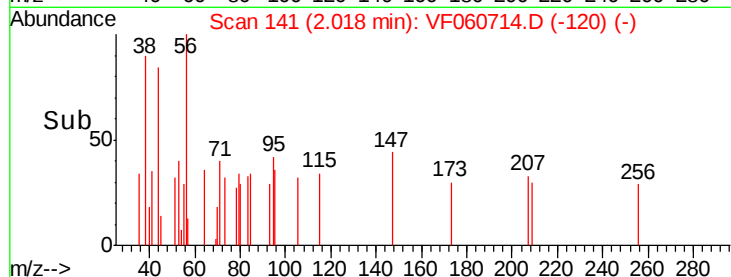
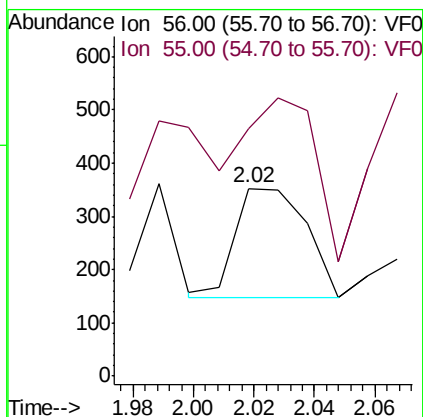
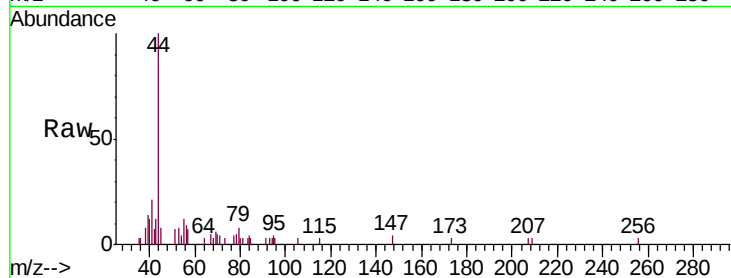
VF1113SBL01

Tgt Ion: 56 Resp: 333

Ion Ratio Lower Upper

56 100

55 131.4 56.6 85.0#



#15

Acrylonitrile

Concen: 1.387 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF060714.D

Acq: 13 Nov 2018 16:05

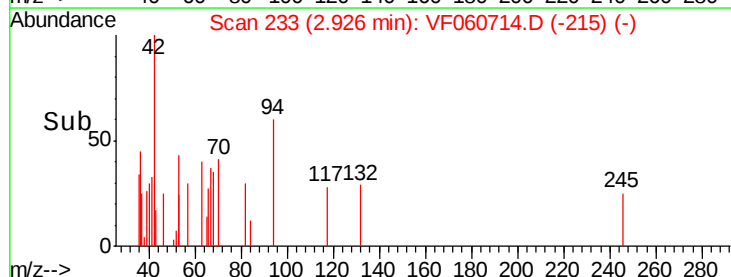
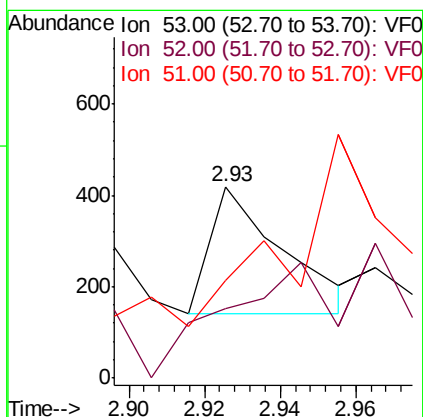
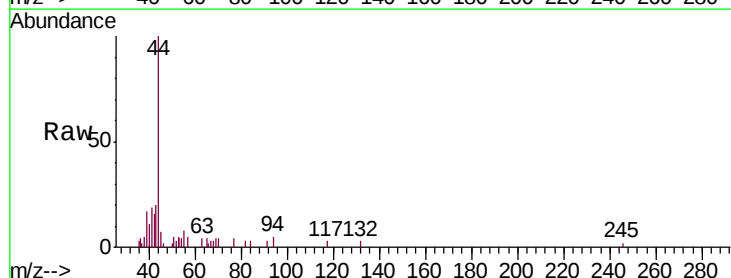
Tgt Ion: 53 Resp: 365

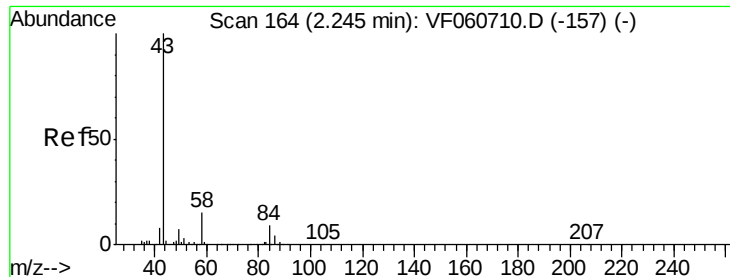
Ion Ratio Lower Upper

53 100

52 36.3 68.8 103.2#

51 50.8 36.7 55.1





#16

Acetone

Concen: 5.744 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.00 min

Lab File: VF060714.D

Acq: 13 Nov 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

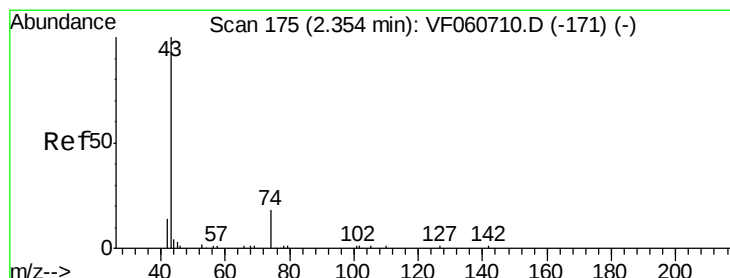
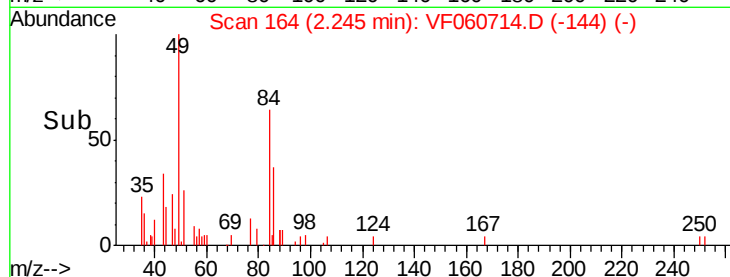
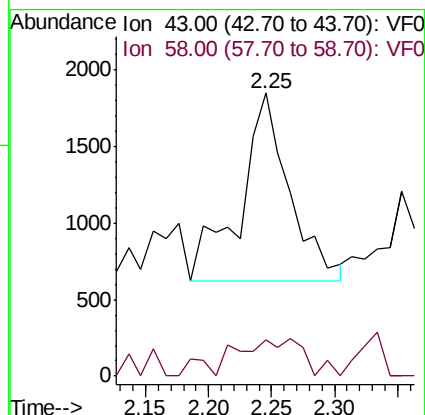
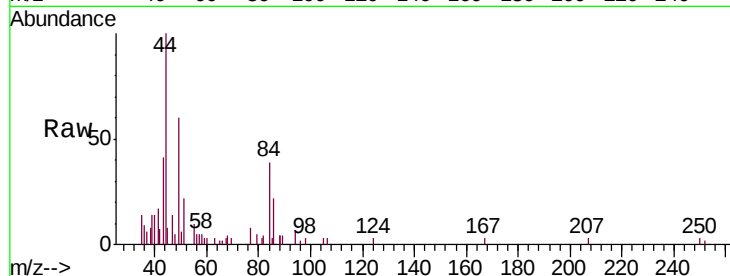
VF1113SBL01

Tgt Ion: 43 Resp: 3331

Ion Ratio Lower Upper

43 100

58 12.7 11.6 17.4



#18

Methyl Acetate

Concen: 1.909 ug/l

RT: 2.39 min Scan# 179

Delta R.T. 0.04 min

Lab File: VF060714.D

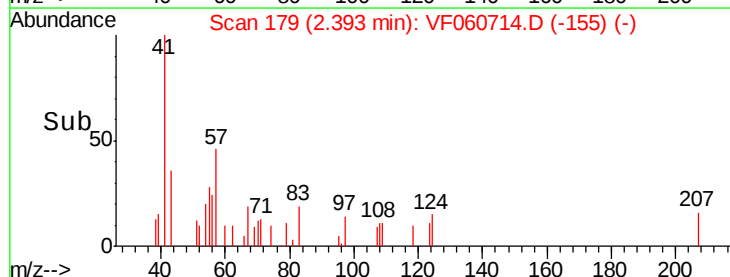
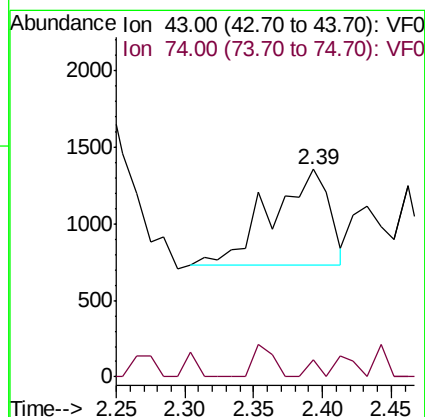
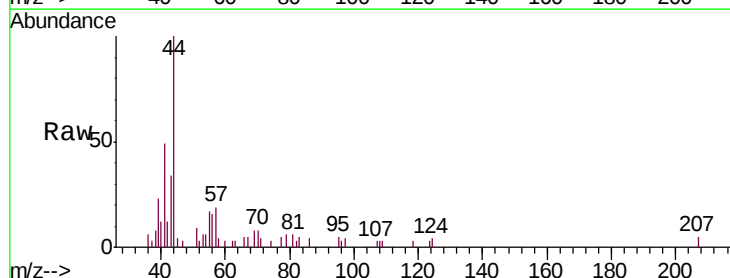
Acq: 13 Nov 2018 16:05

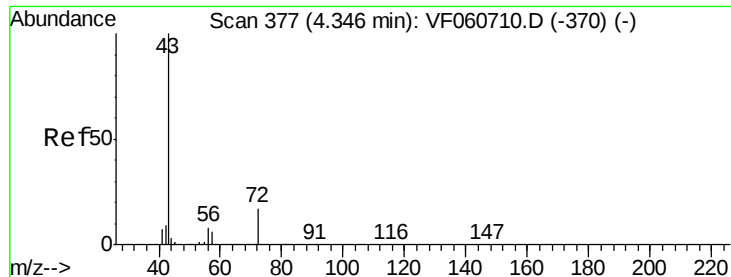
Tgt Ion: 43 Resp: 1818

Ion Ratio Lower Upper

43 100

74 8.2 11.8 17.8#





#25

2-Butanone

Concen: 2.007 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.00 min

Lab File: VF060714.D

Acq: 13 Nov 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

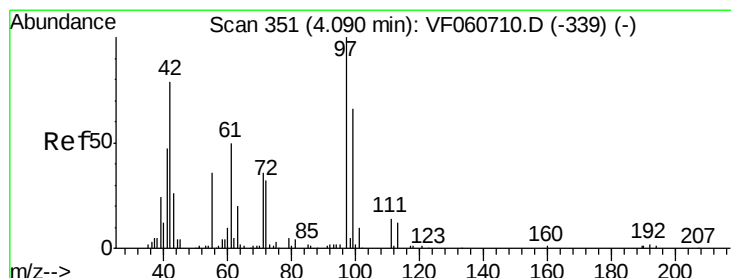
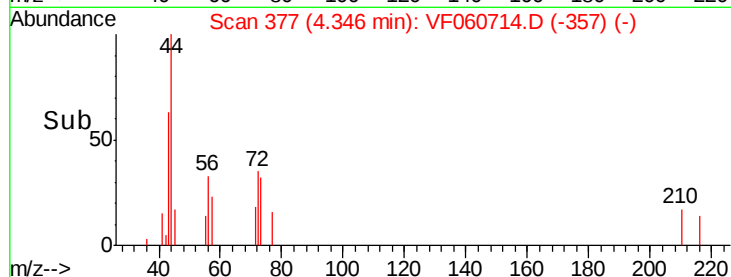
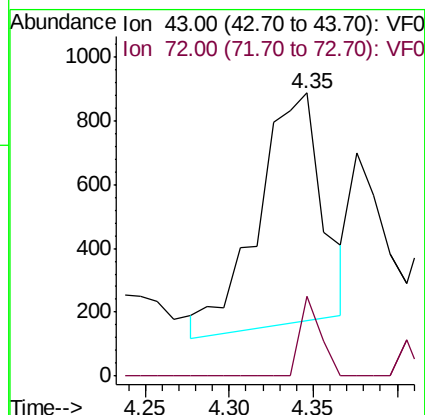
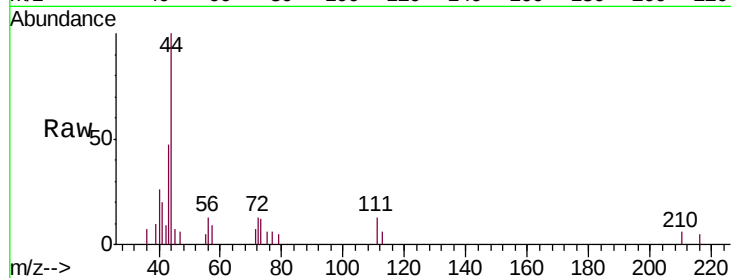
VF1113SBL01

Tgt Ion: 43 Resp: 1915

Ion Ratio Lower Upper

43 100

72 28.2 16.1 24.1#



#29

Tetrahydrofuran

Concen: 3.863 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.01 min

Lab File: VF060714.D

Acq: 13 Nov 2018 16:05

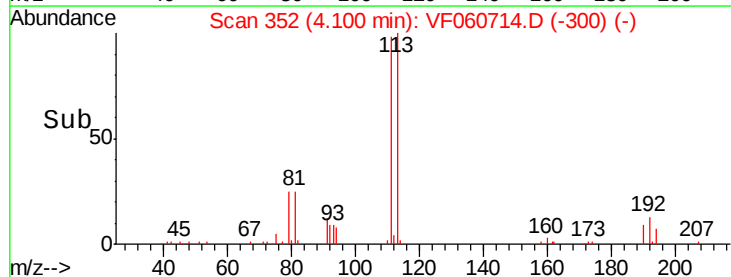
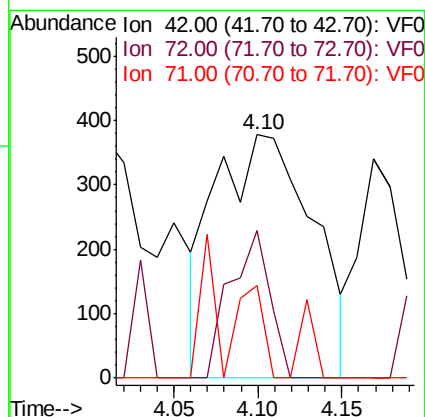
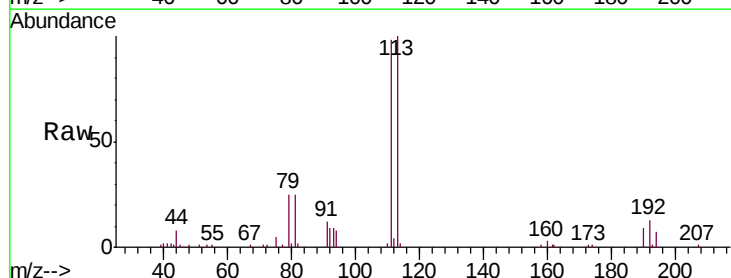
Tgt Ion: 42 Resp: 1520

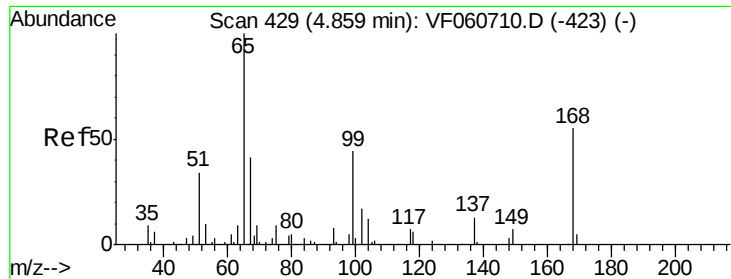
Ion Ratio Lower Upper

42 100

72 24.7 30.3 45.5#

71 0.0 32.2 48.2#

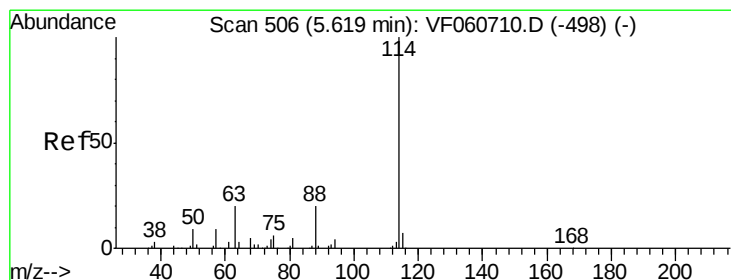
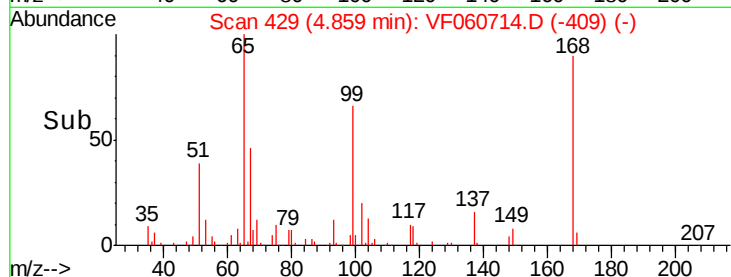
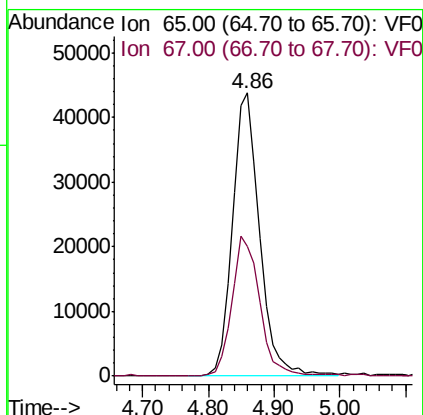
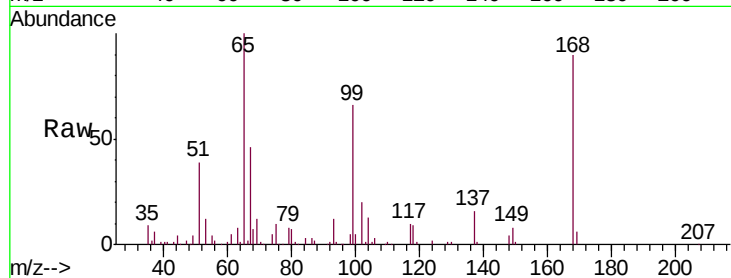




#33
 1,2-Dichloroethane-d4
 Concen: 46.793 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.00 min
 Lab File: VF060714.D
 Acq: 13 Nov 2018 16:05

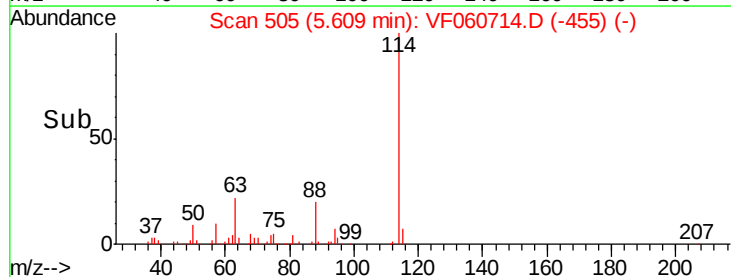
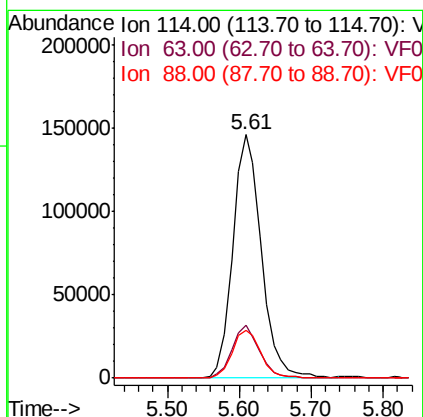
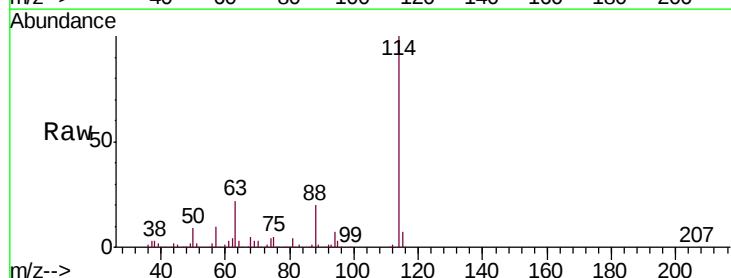
Instrument :
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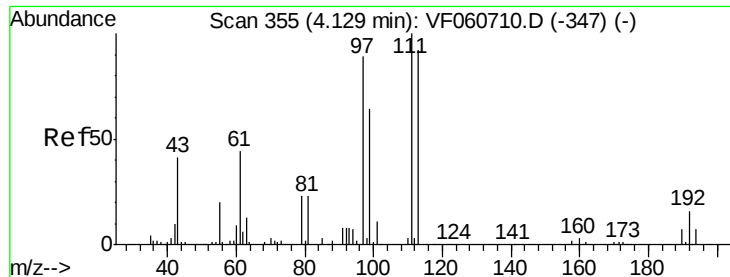
Tgt Ion: 65 Resp: 126965
 Ion Ratio Lower Upper
 65 100
 67 46.1 0.0 90.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. -0.01 min
 Lab File: VF060714.D
 Acq: 13 Nov 2018 16:05

Tgt Ion: 114 Resp: 403031
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 40.8
 88 19.8 0.0 39.6

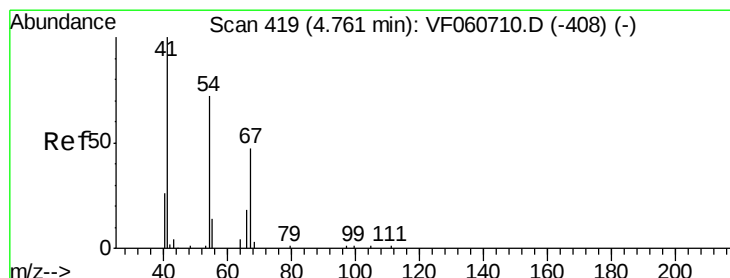
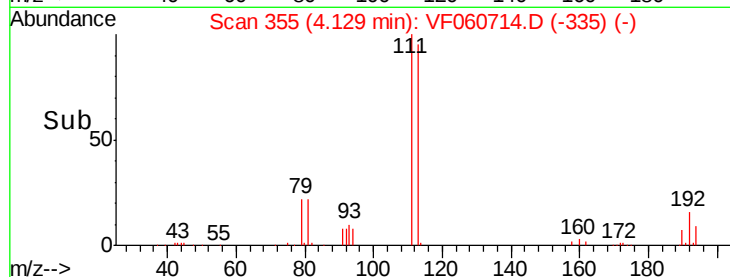
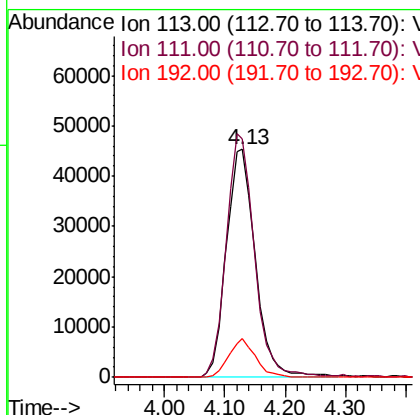
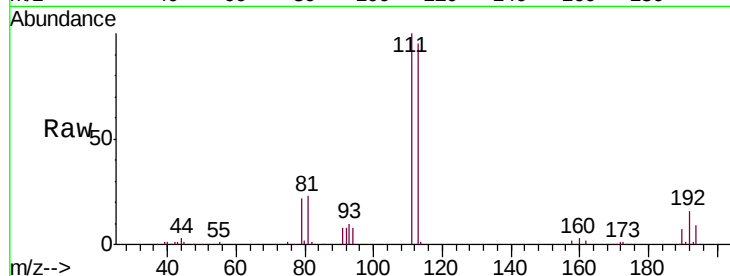




#35
 Dibromofluoromethane
 Concen: 49.828 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. -0.00 min
 Lab File: VF060714.D
 Acq: 13 Nov 2018 16:05

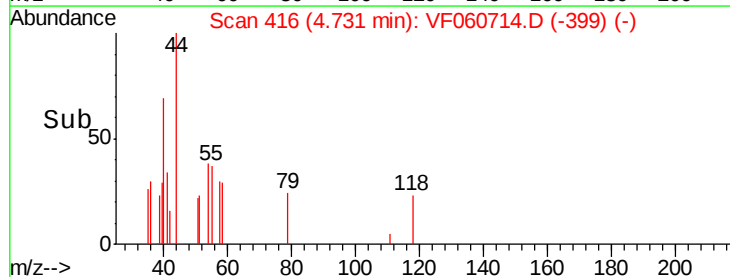
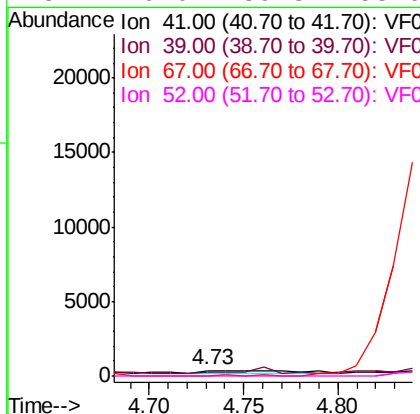
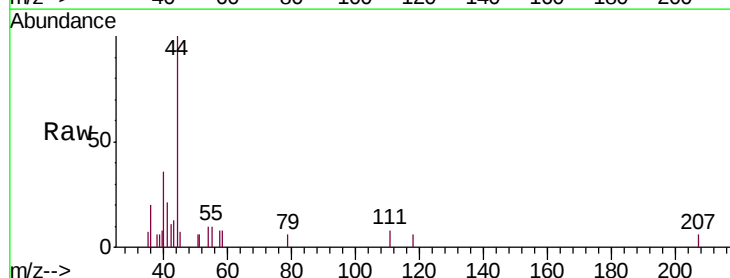
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 VF1113SBL01

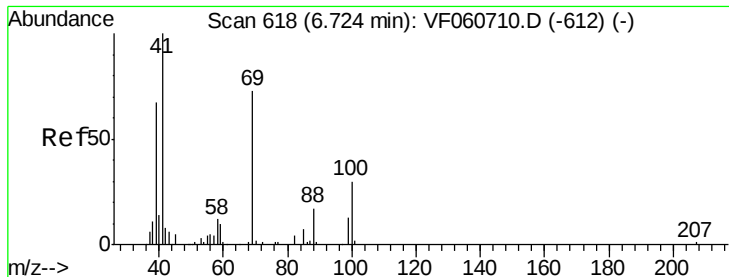
Tgt Ion:113 Resp: 150958
 Ion Ratio Lower Upper
 113 100
 111 104.8 87.1 130.7
 192 16.9 13.8 20.6



#41
 Methacrylonitrile
 Concen: Below Cal
 RT: 4.73 min Scan# 416
 Delta R.T. -0.03 min
 Lab File: VF060714.D
 Acq: 13 Nov 2018 16:05

Tgt Ion: 41 Resp: 782
 Ion Ratio Lower Upper
 41 100
 39 64.9 47.1 70.7
 67 0.0 37.1 55.7#
 52 0.0 39.3 58.9#





#49

1,4-Dioxane

Concen: 4.558 ug/l

RT: 6.65 min Scan# 611

Delta R.T. -0.07 min

Lab File: VF060714.D

Acq: 13 Nov 2018 16:05

Instrument :

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ClientSampleId :

VF1113SBL01

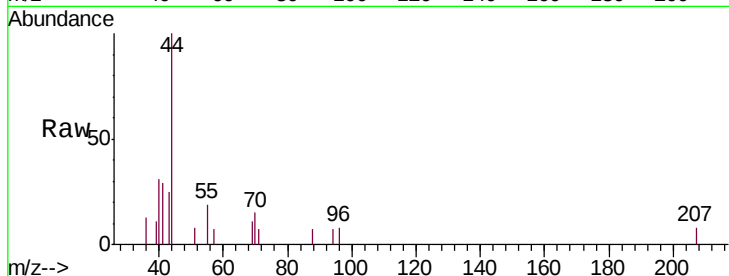
Tgt Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 342.2 44.6 66.8#

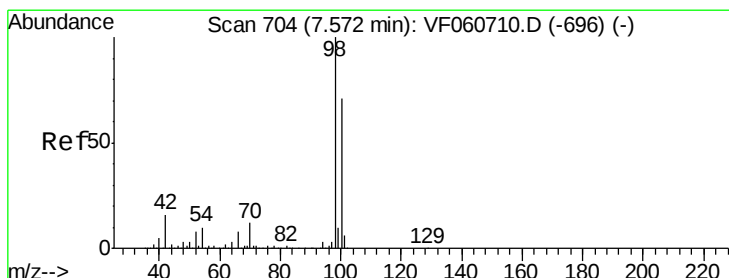
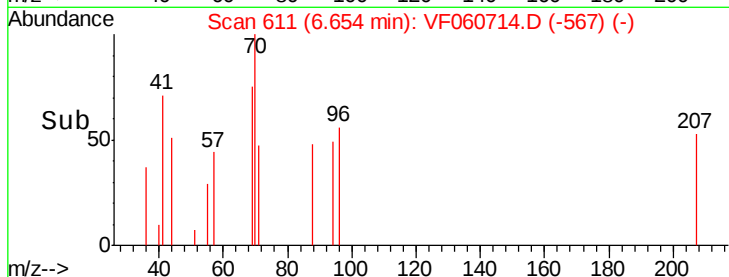
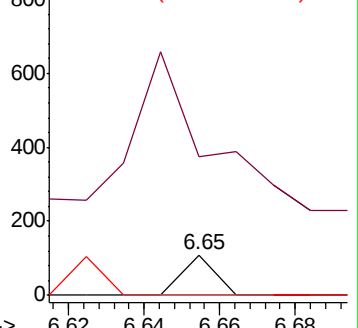
58 0.0 54.5 81.7#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 51.182 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF060714.D

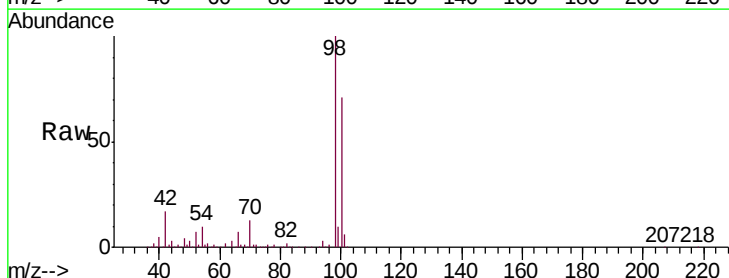
Acq: 13 Nov 2018 16:05

Tgt Ion: 98 Resp: 397222

Ion Ratio Lower Upper

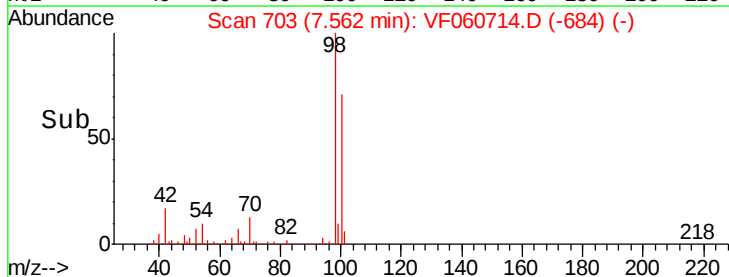
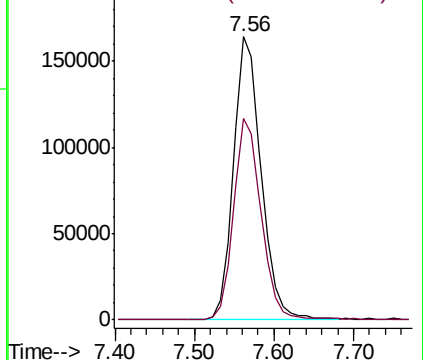
98 100

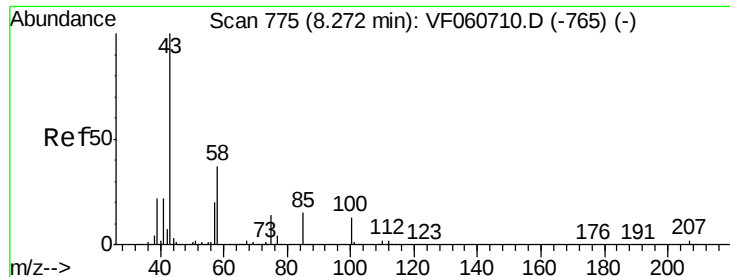
100 71.0 56.5 84.7



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: 2.679 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.00 min

Lab File: VF060714.D

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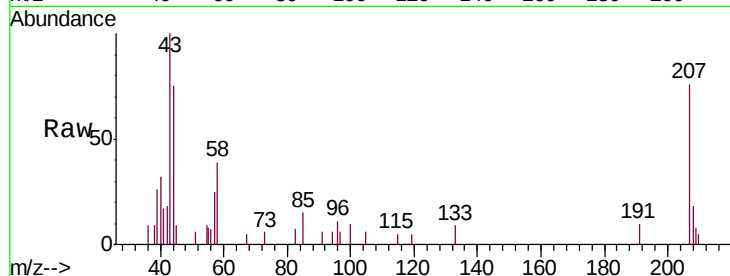
VF1113SBL01

Tgt Ion: 43 Resp: 4464

Ion Ratio Lower Upper

43 100

58 39.4 29.2 43.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2500

2000

1500

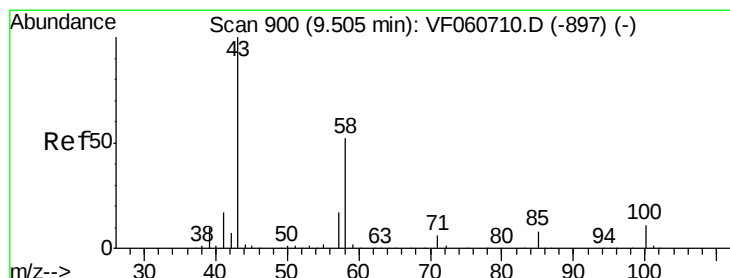
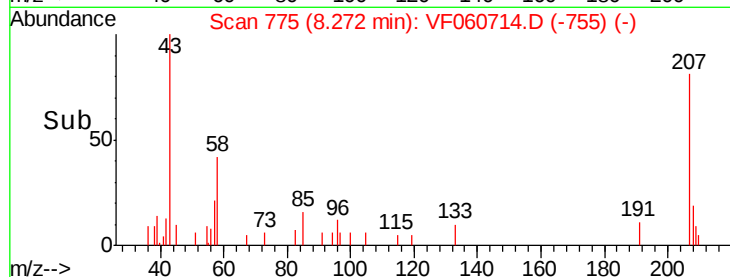
1000

500

0

8.20 8.25 8.30 8.35

Time-->



#59

2-Hexanone

Concen: 7.488 ug/l

RT: 9.51 min Scan# 900

Delta R.T. -0.00 min

Lab File: VF060714.D

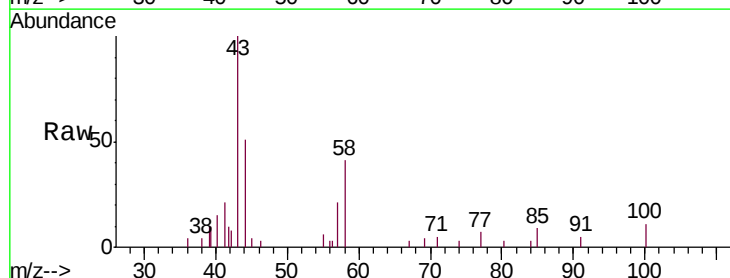
Acq: 13 Nov 2018 16:05

Tgt Ion: 43 Resp: 8769

Ion Ratio Lower Upper

43 100

58 40.8 24.9 74.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

5000

4000

3000

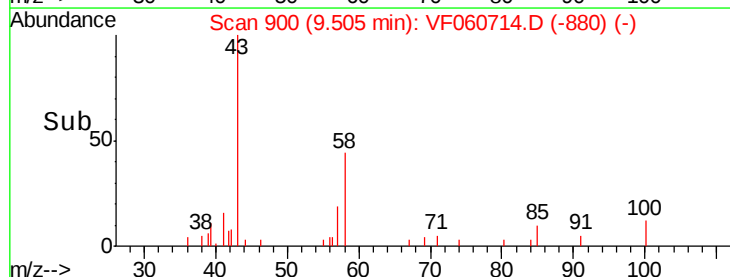
2000

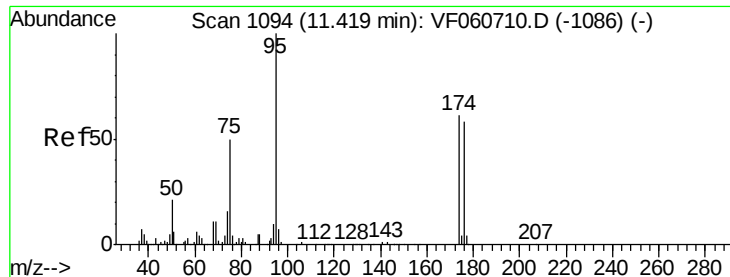
1000

0

9.45 9.50 9.55 9.60

Time-->





#62

4-Bromofluorobenzene

Concen: 57.548 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF060714.D

Acq: 13 Nov 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBL01

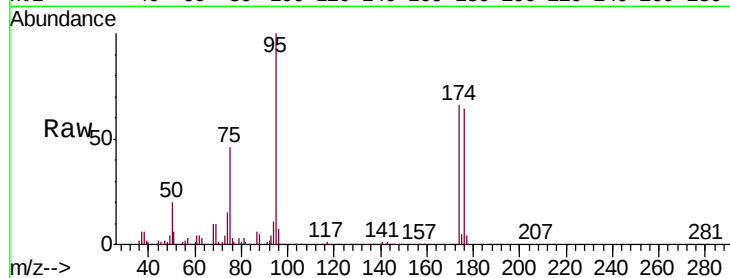
Tgt Ion: 95 Resp: 204126

Ion Ratio Lower Upper

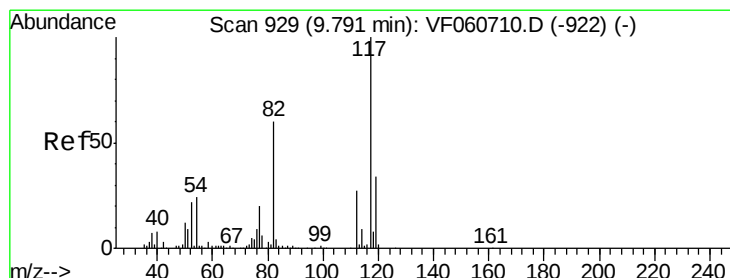
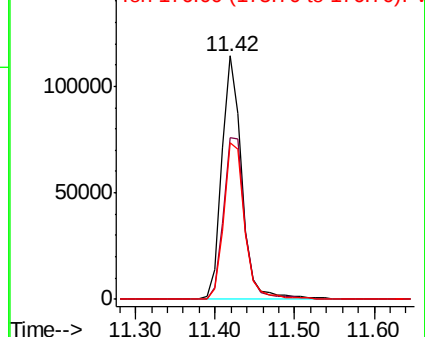
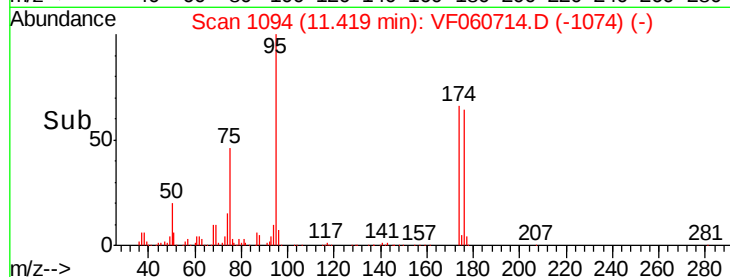
95 100

174 66.4 0.0 121.6

176 64.1 0.0 115.2



Abundance Ion 95.00 (94.70 to 95.70): VF060714.D (-1074) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. -0.00 min

Lab File: VF060714.D

Acq: 13 Nov 2018 16:05

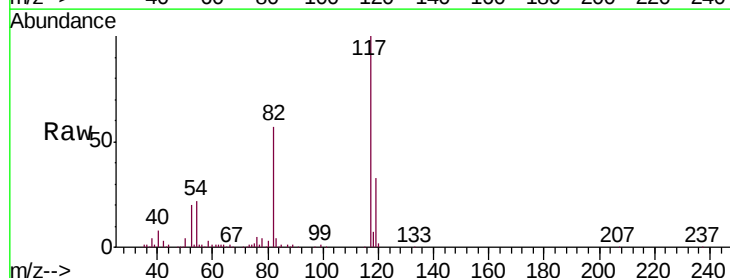
Tgt Ion: 117 Resp: 375511

Ion Ratio Lower Upper

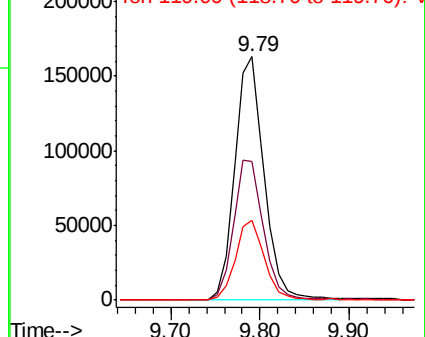
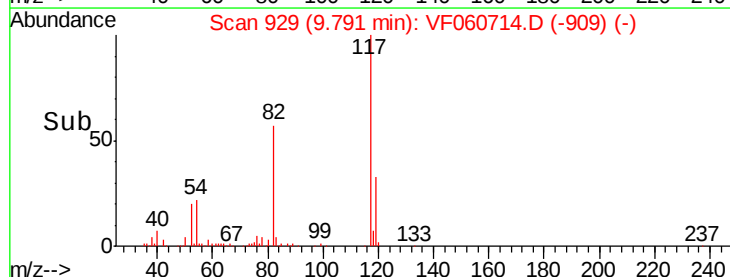
117 100

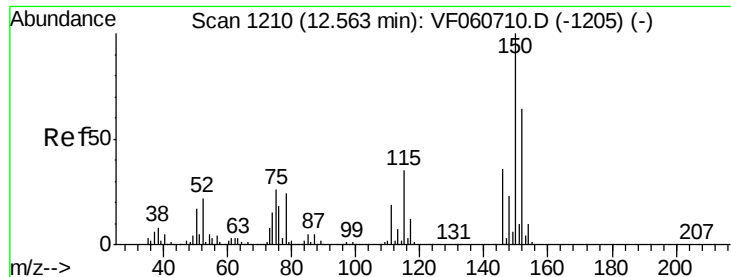
82 56.8 47.9 71.9

119 32.9 26.8 40.2



Abundance Ion 117.00 (116.70 to 117.70): VF060714.D (-909) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.00 min

Lab File: VF060714.D

Acq: 13 Nov 2018 16:05

Instrument :

MSVOA_F

ClientSampleId :

VF1113SBL01

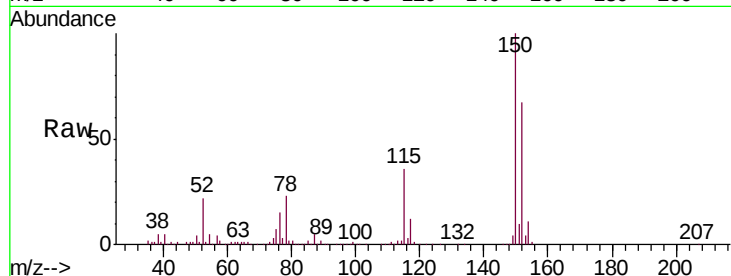
Tgt Ion:152 Resp: 224706

Ion Ratio Lower Upper

152 100

115 54.1 27.9 83.7

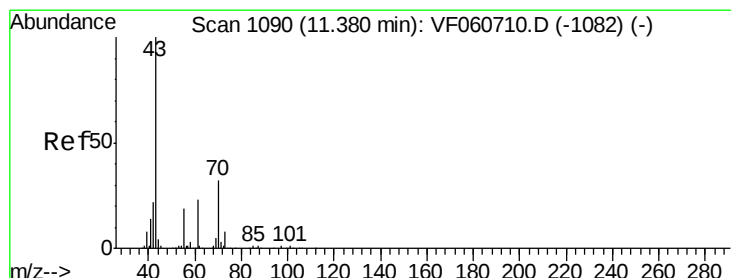
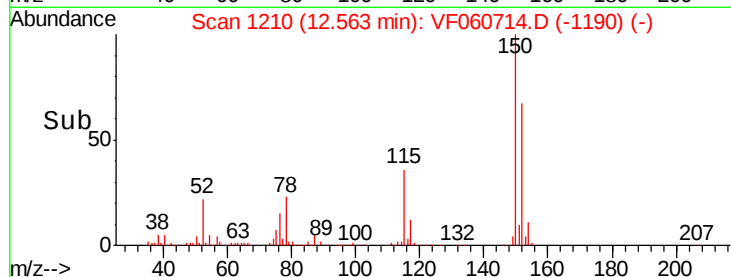
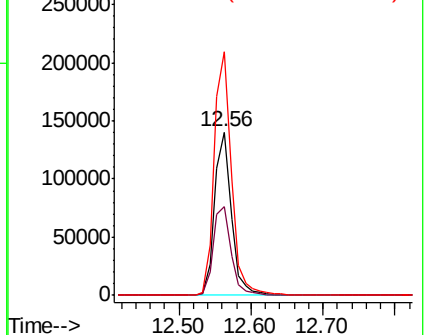
150 149.1 0.0 316.4



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 1.136 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF060714.D

Acq: 13 Nov 2018 16:05

Tgt Ion: 43 Resp: 4679

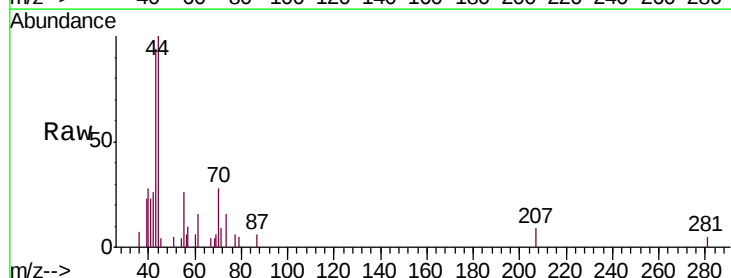
Ion Ratio Lower Upper

43 100

70 29.8 25.5 38.3

55 28.0 14.9 22.3#

61 16.5 18.6 27.8#



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

