

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF111518\
 Data File : VF060740.D
 Acq On : 15 Nov 2018 11:23
 Operator : VA/AP
 Sample : VF1115SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBL01

Quant Time: Nov 15 13:57:01 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	4.85	168	239391	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	408342	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.75	117	376314	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.53	152	219420	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	131887	48.30	ug/l	-0.04
Spiked Amount			Recovery	=	96.60%	
35) Dibromofluoromethane	4.09	113	163460	53.25	ug/l	-0.04
Spiked Amount			Recovery	=	106.50%	
50) Toluene-d8	7.53	98	396971	50.43	ug/l	-0.04
Spiked Amount			Recovery	=	100.86%	
62) 4-Bromofluorobenzene	11.40	95	210200	58.56	ug/l	-0.02
Spiked Amount			Recovery	=	117.12%	

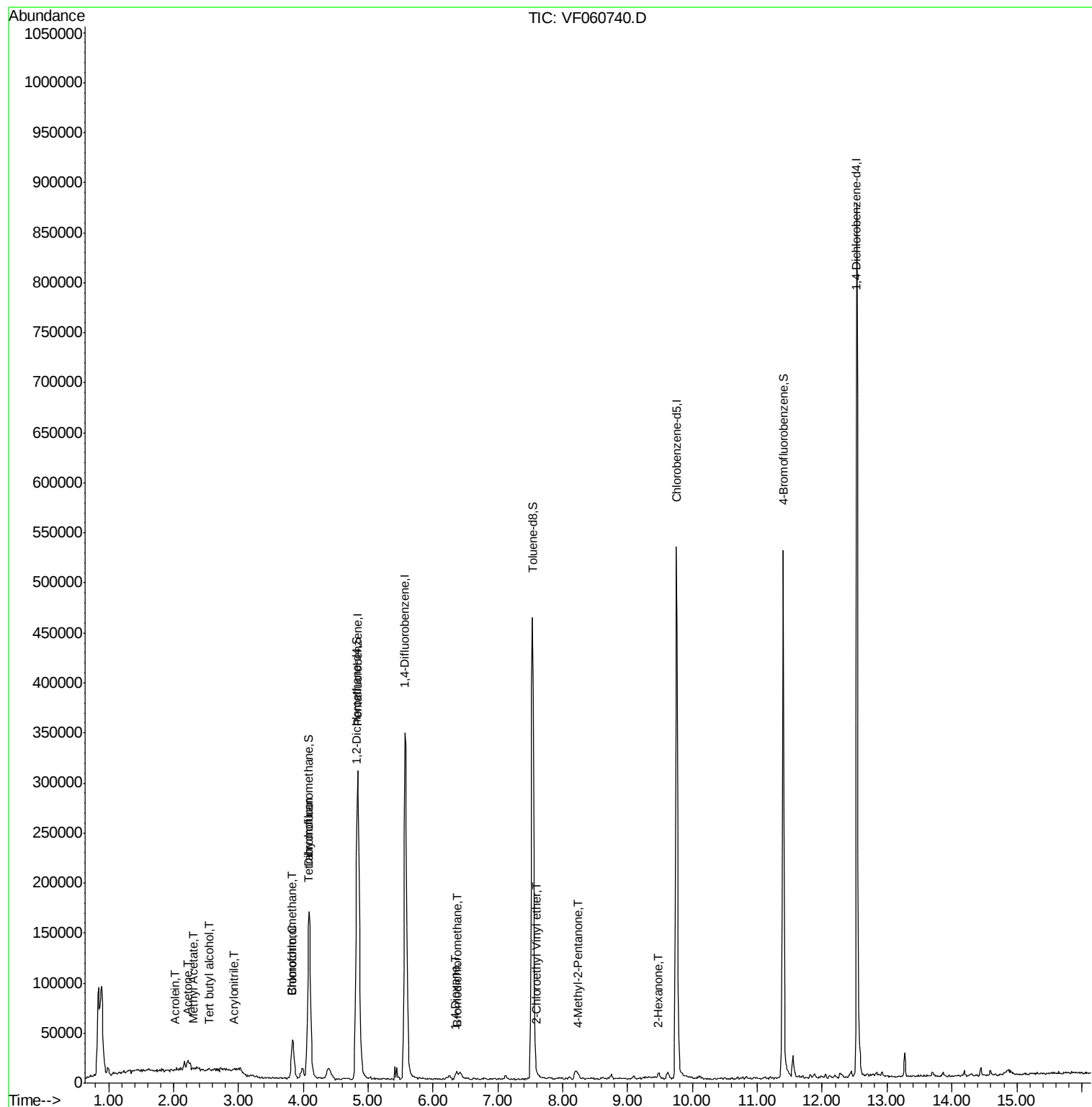
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	141	1.13	ug/l #	1
13) Acrolein	2.03	56	981	8.63	ug/l	94
15) Acrylonitrile	2.93	53	818	3.09	ug/l #	60
16) Acetone	2.22	43	2051	3.51	ug/l	97
18) Methyl Acetate	2.31	43	1141	1.19	ug/l #	64
20) Methylene Chloride	2.17	84	3983	Below	Cal	95
28) Bromochloromethane	3.83	49	3863	1.86	ug/l #	12
29) Tetrahydrofuran	4.07	42	1226	3.10	ug/l #	70
30) Chloroform	3.83	83	42812	6.67	ug/l	95
41) Methacrylonitrile	4.73	41	273	Below	Cal #	52
47) Bromodichloromethane	6.37	83	5657	1.22	ug/l #	88
49) 1,4-Dioxane	6.34	88	62	4.29	ug/l #	1
51) 4-Methyl-2-Pentanone	8.24	43	3824	2.26	ug/l #	70
58) 2-Chloroethyl Vinyl ether	7.60	63	375	1.79	ug/l	100
59) 2-Hexanone	9.48	43	5248	4.42	ug/l	80

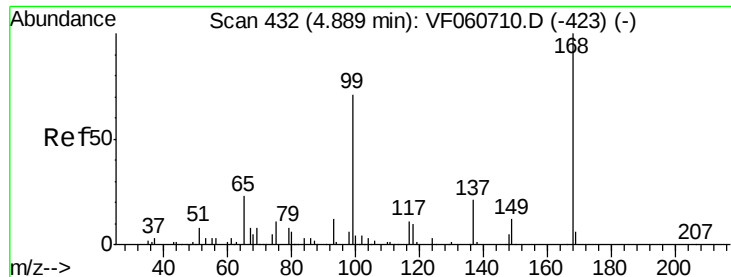
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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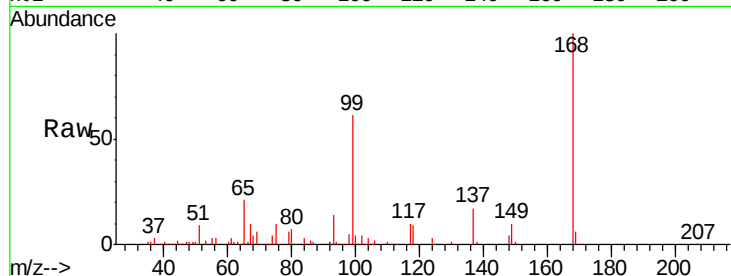




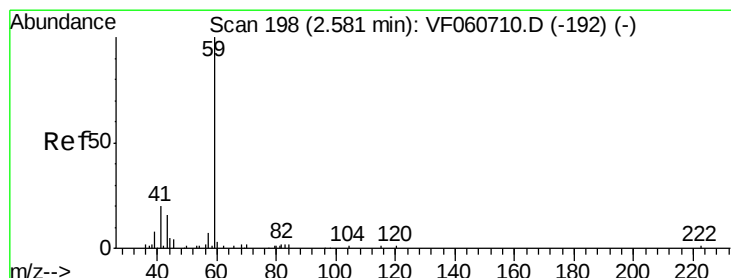
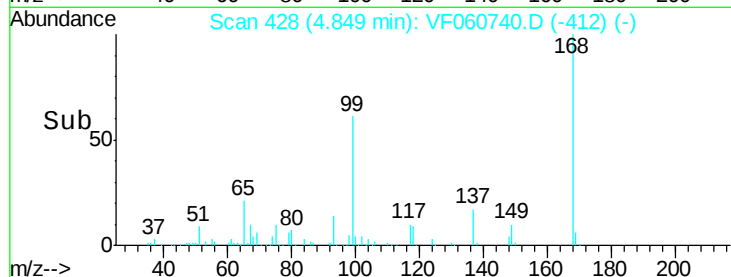
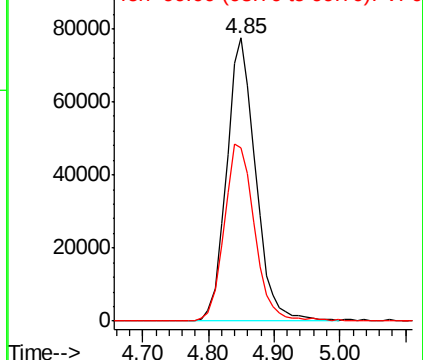
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 4.85 min Scan# 428
Delta R.T. -0.04 min
Lab File: VF060740.D
Acq: 15 Nov 2018 11:23

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBL01

Tgt Ion: 168 Resp: 239391
Ion Ratio Lower Upper
168 100
99 61.4 57.2 85.8

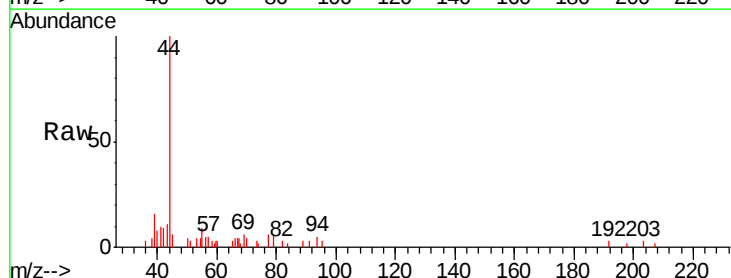


Abundance Ion 168.00 (167.70 to 168.70): VF0
Ion 99.00 (98.70 to 99.70): VF0

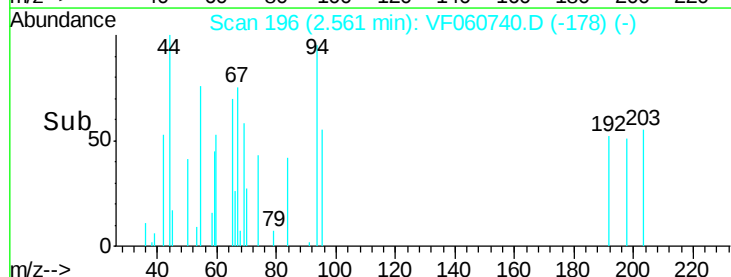
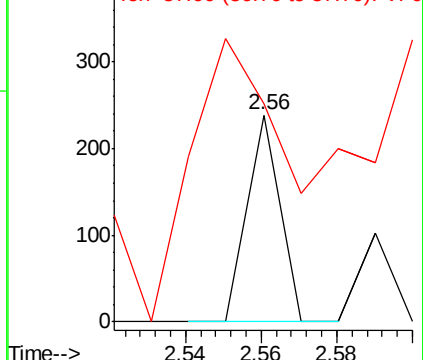


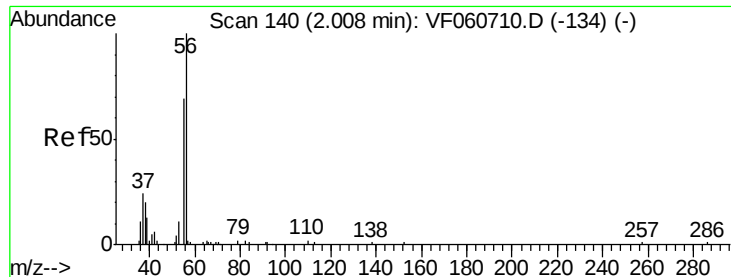
#11
Tert butyl alcohol
Concen: 1.13 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF060740.D
Acq: 15 Nov 2018 11:23

Tgt Ion: 59 Resp: 141
Ion Ratio Lower Upper
59 100
57 105.4 10.5 15.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0
Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 8.63 ug/l

RT: 2.03 min Scan# 142

Delta R.T. 0.02 min

Lab File: VF060740.D

Acq: 15 Nov 2018 11:23

Instrument :

MSVOA_F

ClientSampleId :

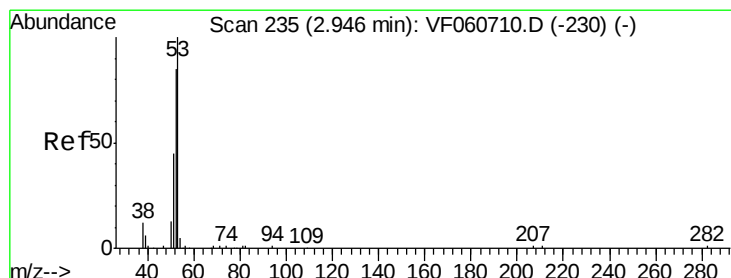
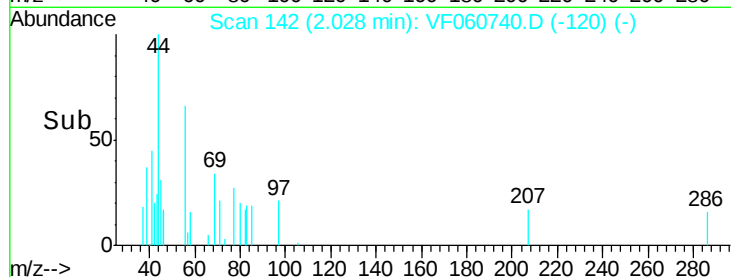
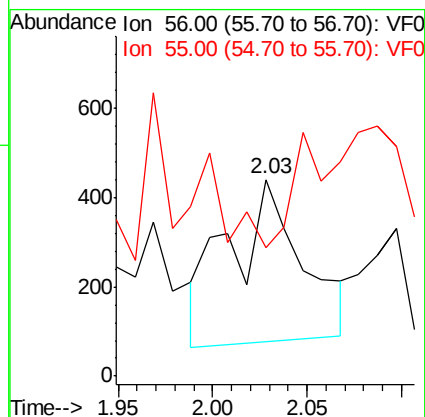
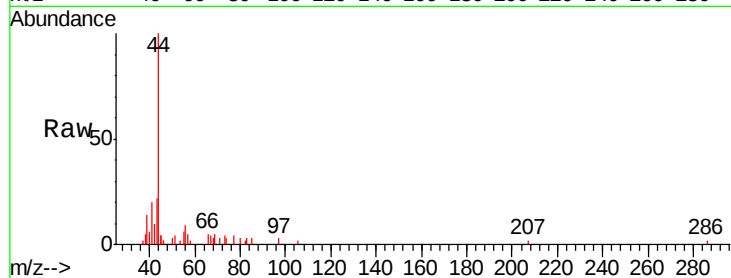
VF1115SBL01

Tgt Ion: 56 Resp: 981

Ion Ratio Lower Upper

56 100

55 65.7 56.6 85.0



#15

Acrylonitrile

Concen: 3.09 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.02 min

Lab File: VF060740.D

Acq: 15 Nov 2018 11:23

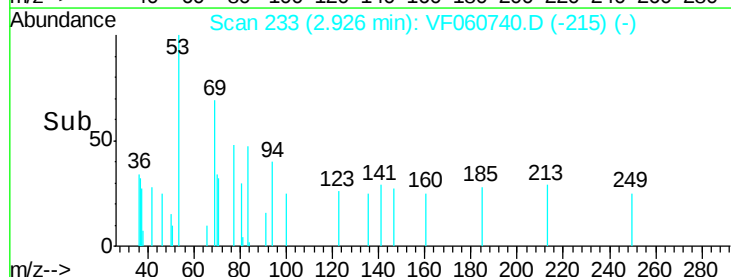
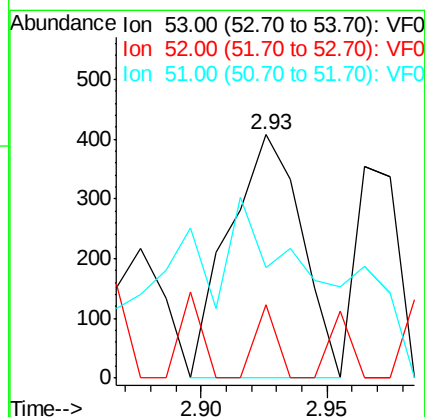
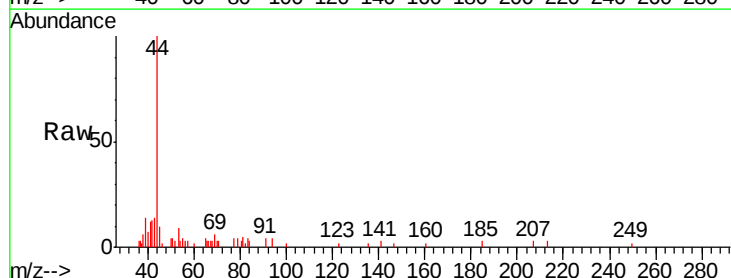
Tgt Ion: 53 Resp: 818

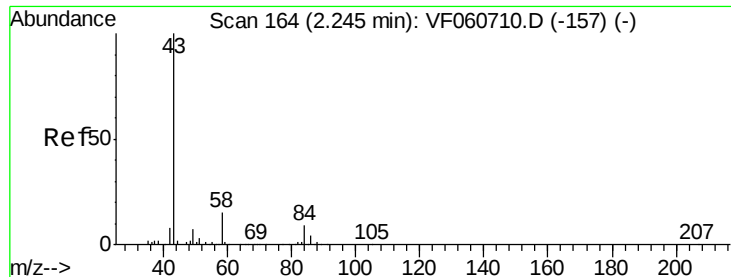
Ion Ratio Lower Upper

53 100

52 30.1 68.8 103.2#

51 45.6 36.7 55.1





#16

Acetone

Concen: 3.51 ug/l

RT: 2.22 min Scan# 161

Delta R.T. -0.03 min

Lab File: VF060740.D

Acq: 15 Nov 2018 11:23

Instrument :

MSVOA_F

ClientSampleId :

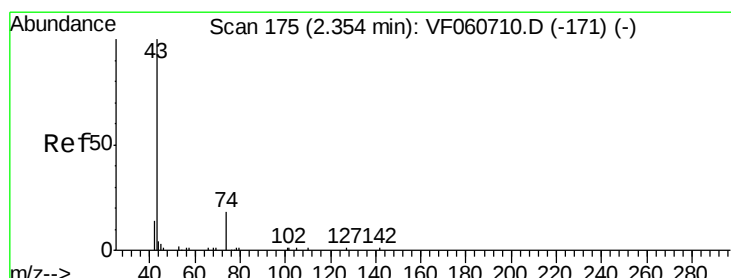
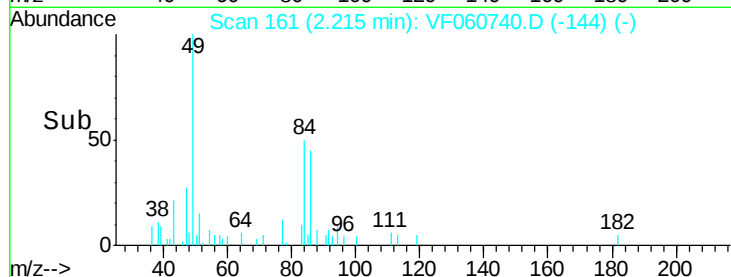
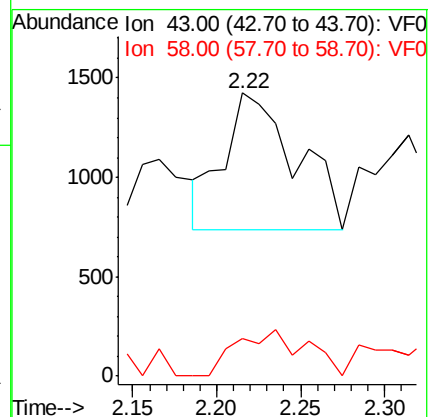
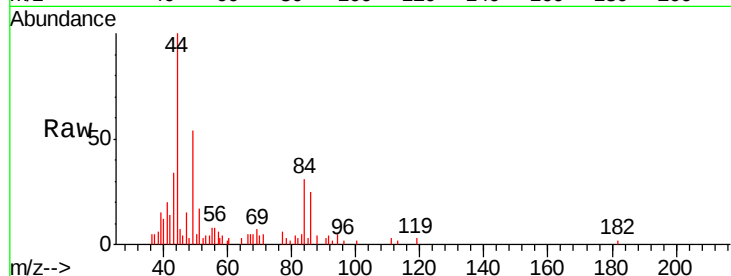
VF1115SBL01

Tgt Ion: 43 Resp: 2051

Ion Ratio Lower Upper

43 100

58 13.1 11.6 17.4



#18

Methyl Acetate

Concen: 1.19 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.04 min

Lab File: VF060740.D

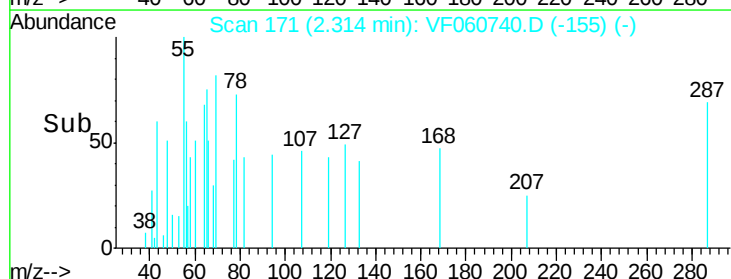
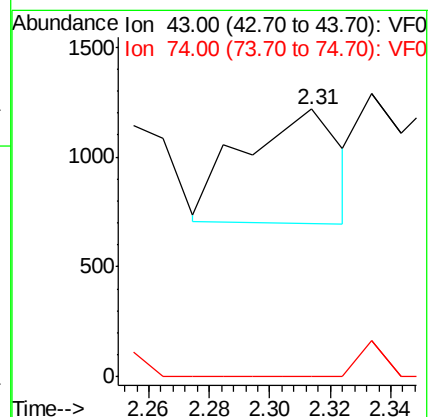
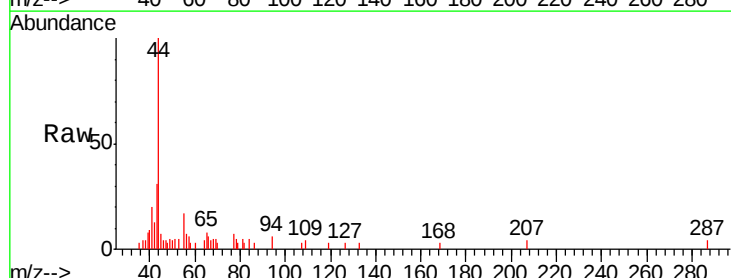
Acq: 15 Nov 2018 11:23

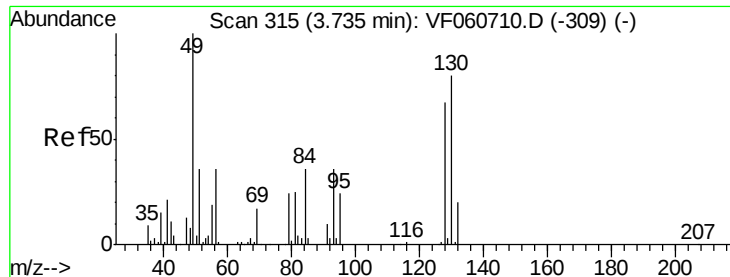
Tgt Ion: 43 Resp: 1141

Ion Ratio Lower Upper

43 100

74 0.0 11.8 17.8#





#28

Bromochloromethane

Concen: 1.86 ug/l

RT: 3.83 min Scan# 325

Delta R.T. 0.10 min

Lab File: VF060740.D

Acq: 15 Nov 2018 11:23

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBL01

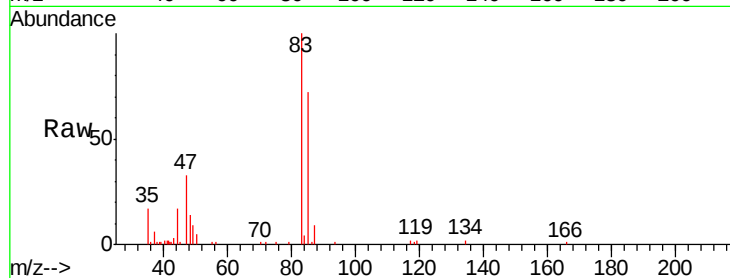
Tgt Ion: 49 Resp: 3863

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.2

130 0.0 63.9 95.9#

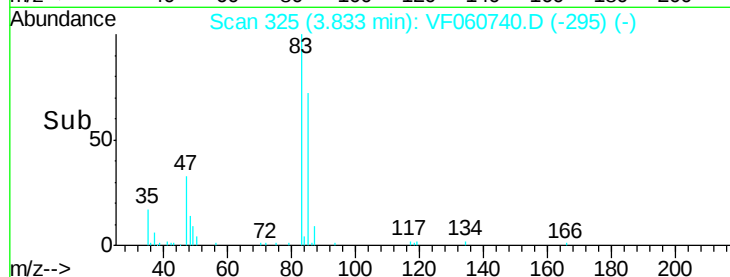


Abundance Ion 49.00 (48.70 to 49.70): VF0

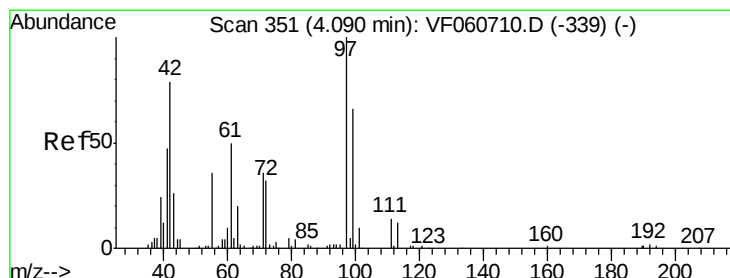
Ion 129.00 (128.70 to 129.70): VF0

Ion 130.00 (129.70 to 130.70): VF0

Time-->



Time-->



#29

Tetrahydrofuran

Concen: 3.10 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.02 min

Lab File: VF060740.D

Acq: 15 Nov 2018 11:23

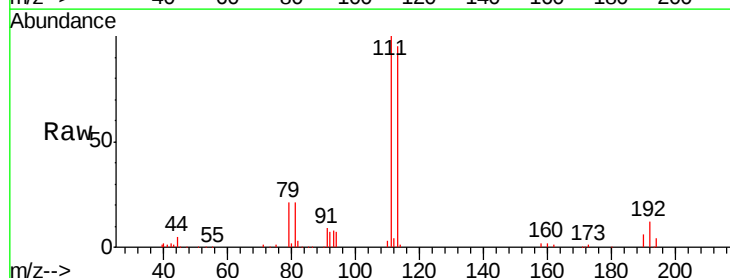
Tgt Ion: 42 Resp: 1226

Ion Ratio Lower Upper

42 100

72 20.8 30.3 45.5#

71 20.2 32.2 48.2#

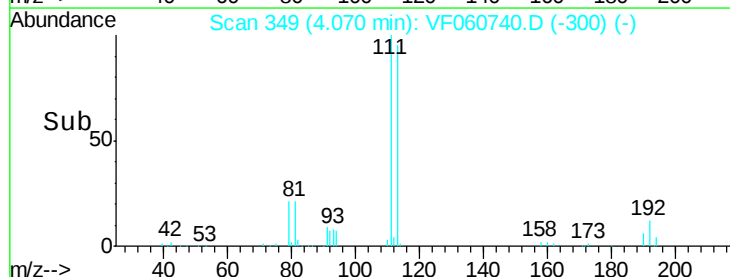


Abundance Ion 42.00 (41.70 to 42.70): VF0

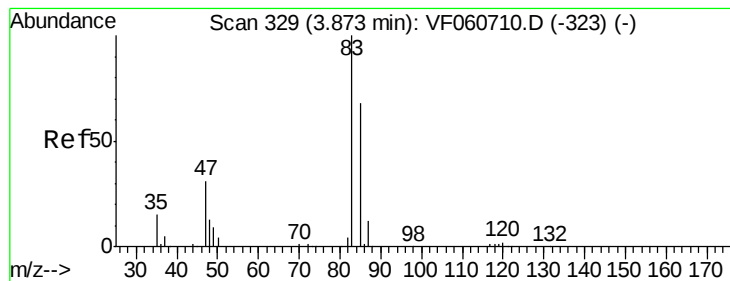
Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

Time-->



Time-->



#30

Chloroform

Concen: 6.67 ug/l

RT: 3.83 min Scan# 325

Delta R.T. -0.04 min

Lab File: VF060740.D

Acq: 15 Nov 2018 11:23

Instrument :

MSVOA_F

ClientSampleId :

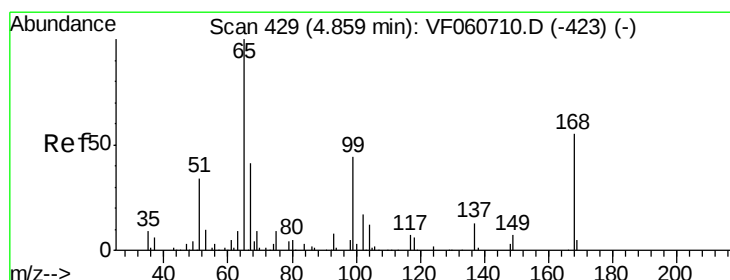
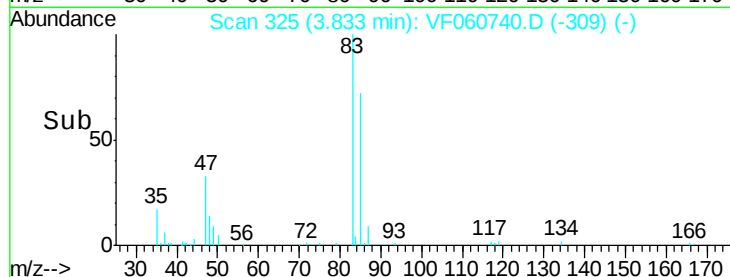
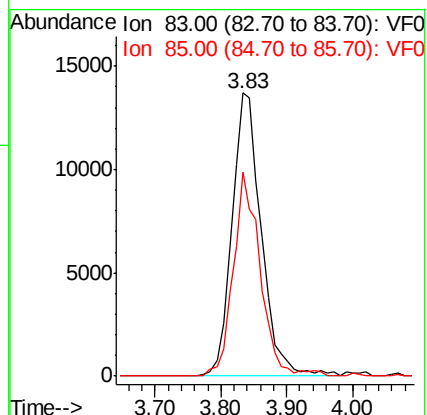
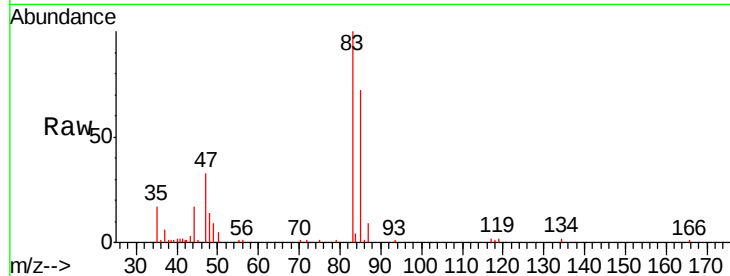
VF1115SBL01

Tgt Ion: 83 Resp: 42812

Ion Ratio Lower Upper

83 100

85 72.0 54.6 82.0



#33

1,2-Dichloroethane-d4

Concen: 48.30 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.04 min

Lab File: VF060740.D

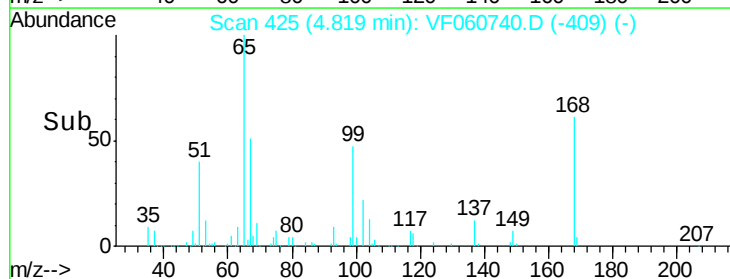
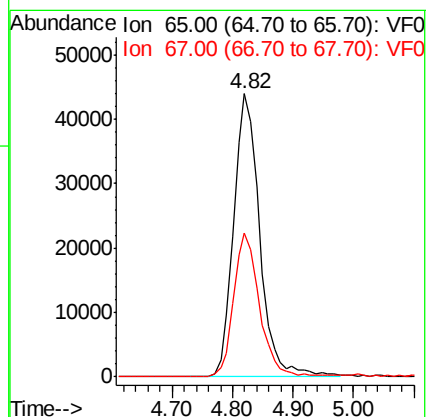
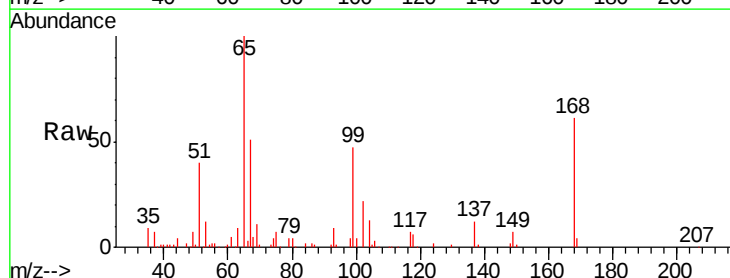
Acq: 15 Nov 2018 11:23

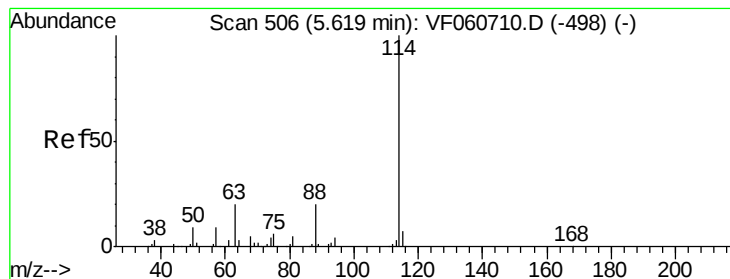
Tgt Ion: 65 Resp: 131887

Ion Ratio Lower Upper

65 100

67 50.8 0.0 90.2





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.04 min

Lab File: VF060740.D

Acq: 15 Nov 2018 11:23

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBL01

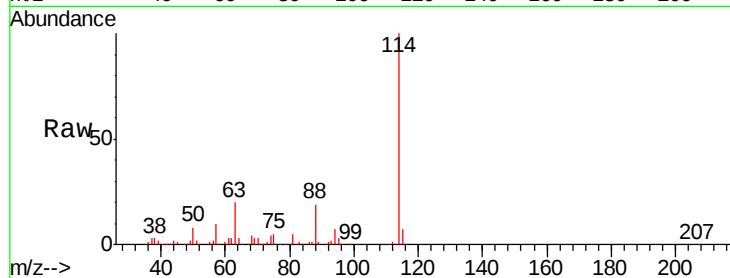
Tgt Ion:114 Resp: 408342

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.8

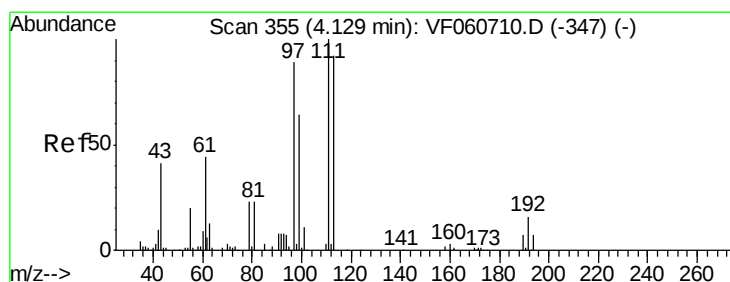
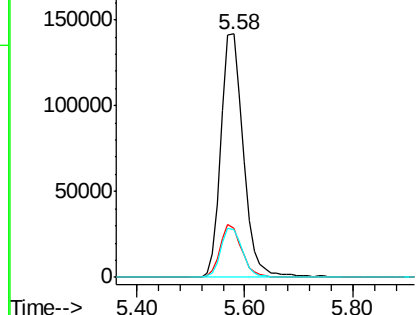
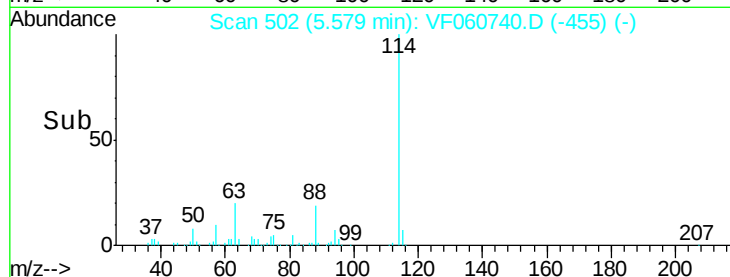
88 19.4 0.0 39.6



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: 53.25 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.04 min

Lab File: VF060740.D

Acq: 15 Nov 2018 11:23

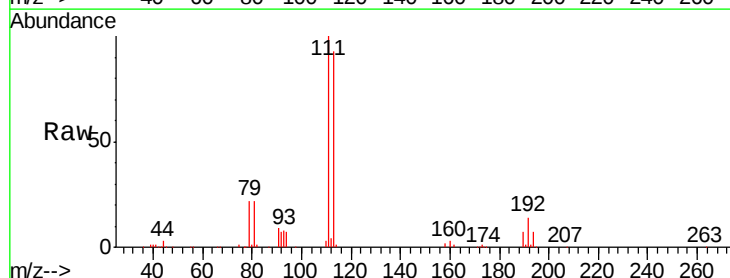
Tgt Ion:113 Resp: 163460

Ion Ratio Lower Upper

113 100

111 107.4 87.1 130.7

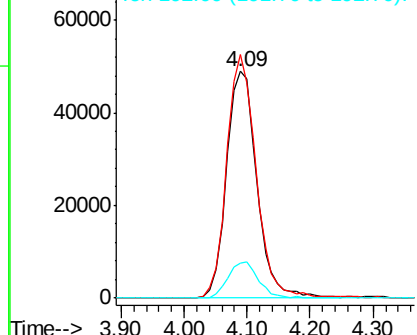
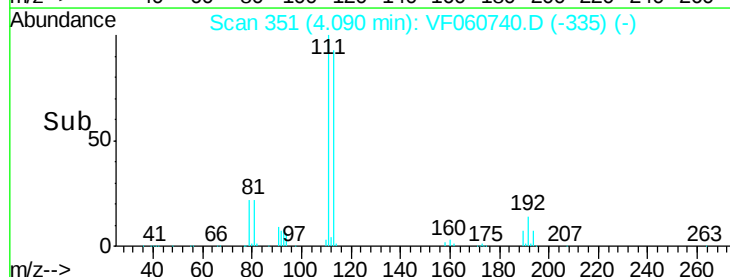
192 16.1 13.8 20.6

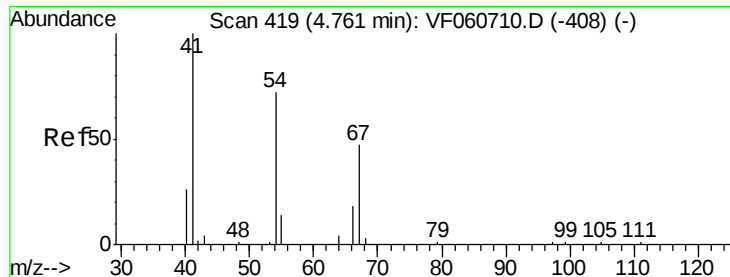


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: Below Cal

RT: 4.73 min Scan# 416

Delta R.T. -0.03 min

Lab File: VF060740.D

Acq: 15 Nov 2018 11:23

Instrument :

MSVOA_F

ClientSampleId :

VF1115SBL01

Tgt Ion: 41 Resp: 273

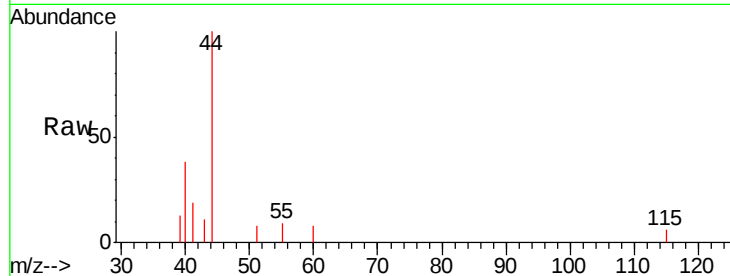
Ion Ratio Lower Upper

41 100

39 67.3 47.1 70.7

67 0.0 37.1 55.7#

52 0.0 39.3 58.9#

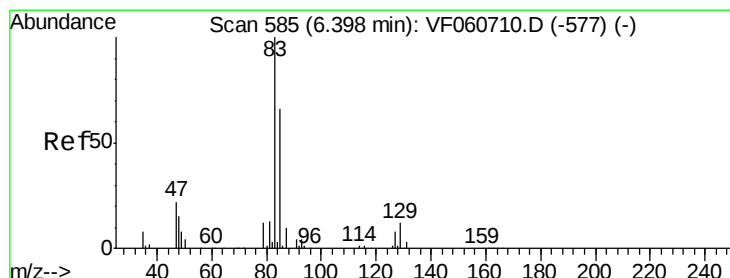
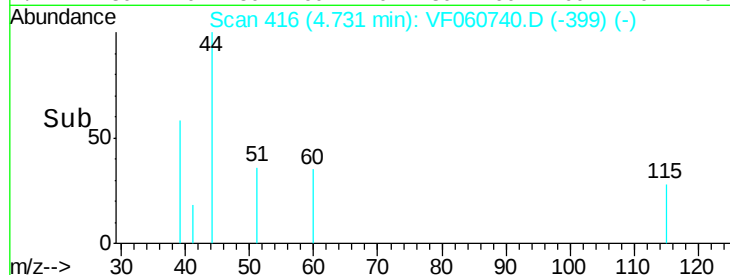
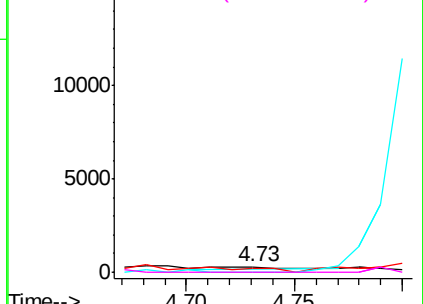


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#47

Bromodichloromethane

Concen: 1.22 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.03 min

Lab File: VF060740.D

Acq: 15 Nov 2018 11:23

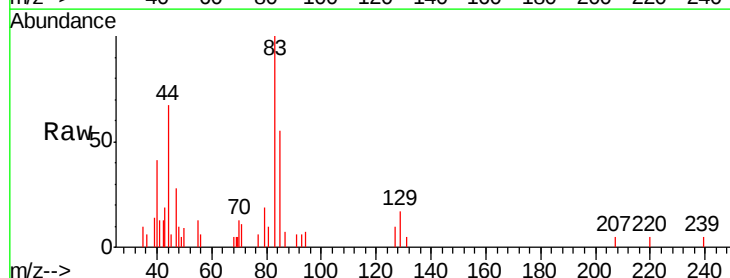
Tgt Ion: 83 Resp: 5657

Ion Ratio Lower Upper

83 100

85 54.9 52.4 78.6

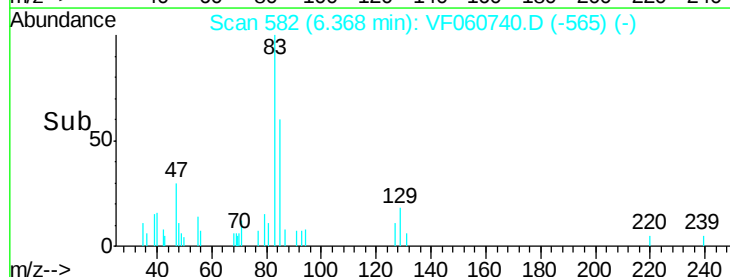
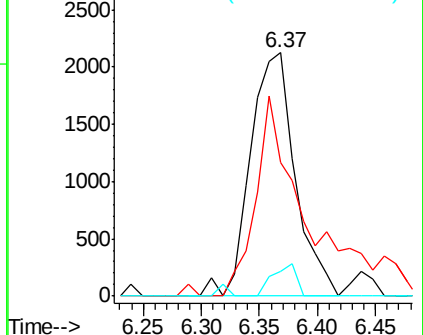
127 10.2 6.8 10.2#

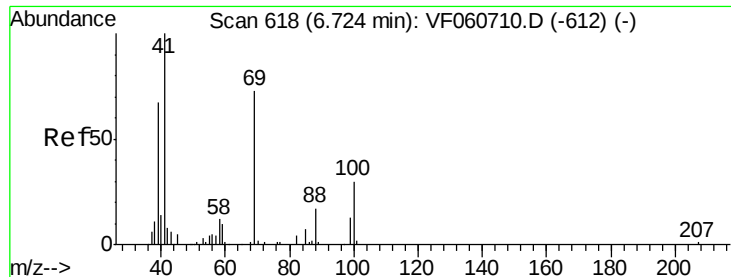


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

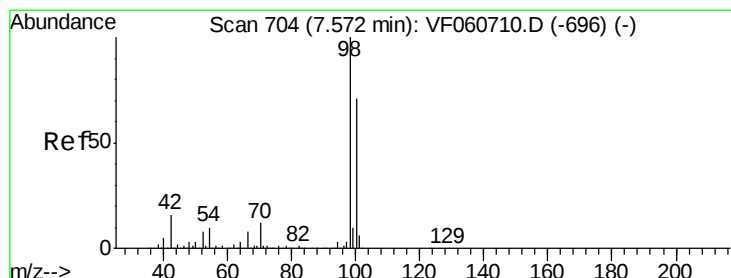
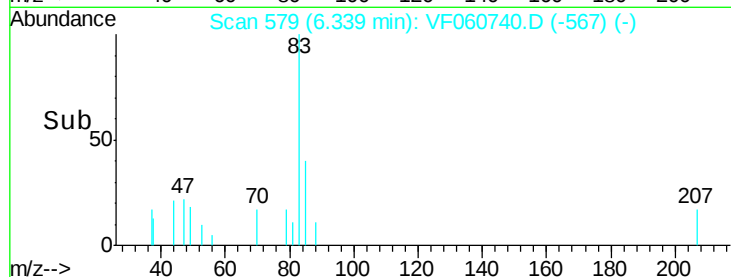
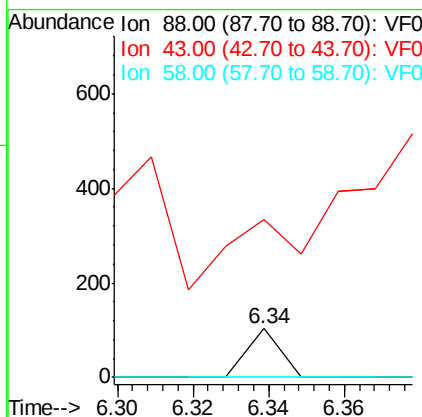
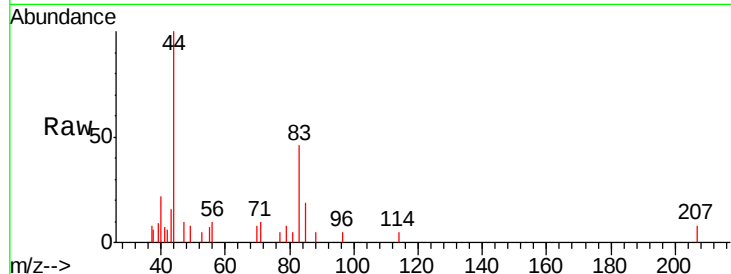




#49
 1,4-Dioxane
 Concen: 4.29 ug/l
 RT: 6.34 min Scan# 579
 Delta R.T. -0.38 min
 Lab File: VF060740.D
 Acq: 15 Nov 2018 11:23

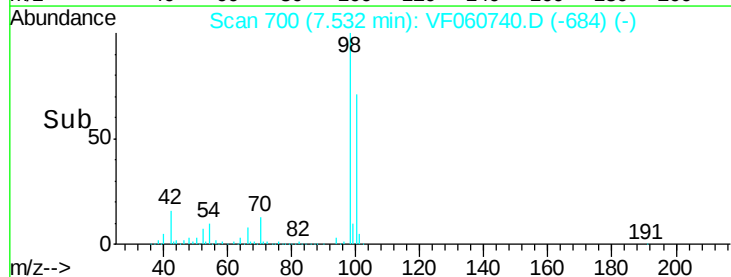
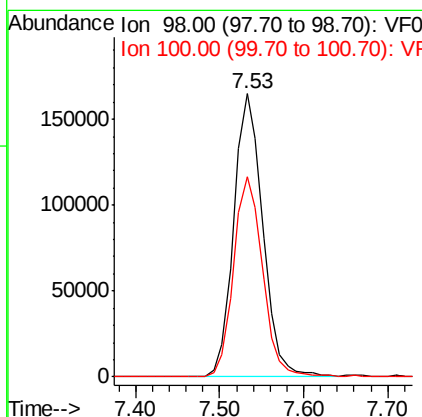
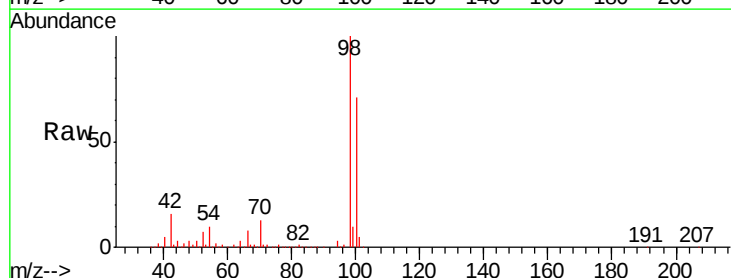
Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBL01

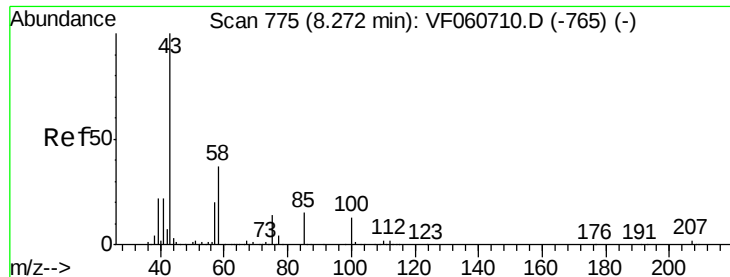
Tgt Ion: 88 Resp: 62
 Ion Ratio Lower Upper
 88 100
 43 321.2 44.6 66.8#
 58 0.0 54.5 81.7#



#50
 Toluene-d8
 Concen: 50.43 ug/l
 RT: 7.53 min Scan# 700
 Delta R.T. -0.04 min
 Lab File: VF060740.D
 Acq: 15 Nov 2018 11:23

Tgt Ion: 98 Resp: 396971
 Ion Ratio Lower Upper
 98 100
 100 70.9 56.5 84.7





#51

4-Methyl-2-Pentanone

Concen: 2.26 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF060740.D

Acq: 15 Nov 2018 11:23

Instrument :

MSVOA_F

ClientSampleId :

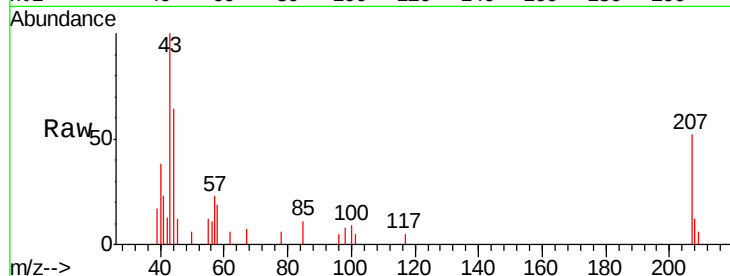
VF1115SBL01

Tgt Ion: 43 Resp: 3824

Ion Ratio Lower Upper

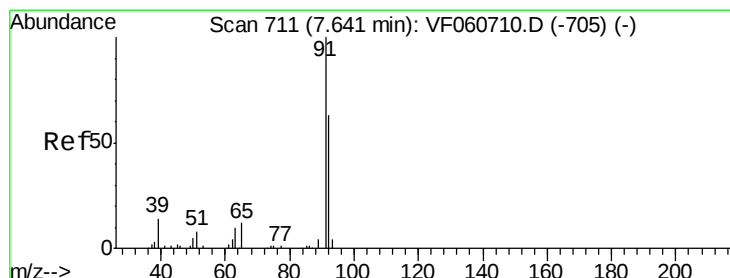
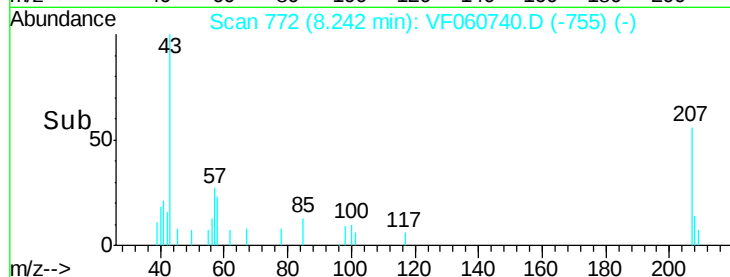
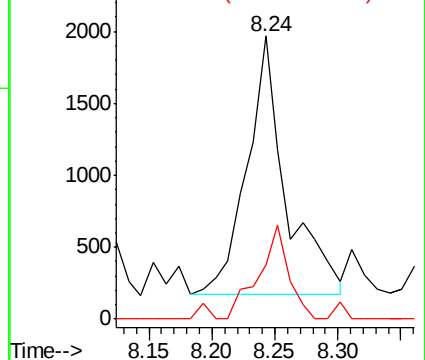
43 100

58 19.0 29.2 43.8#



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: 1.79 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.04 min

Lab File: VF060740.D

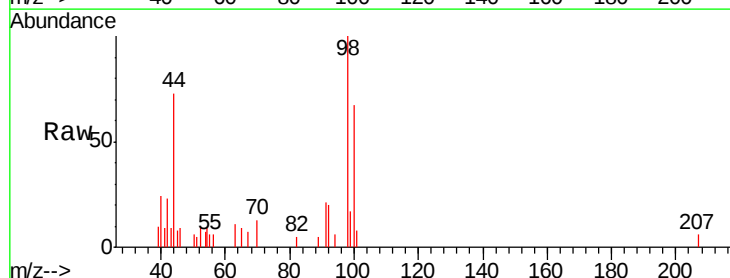
Acq: 15 Nov 2018 11:23

Tgt Ion: 63 Resp: 375

Ion Ratio Lower Upper

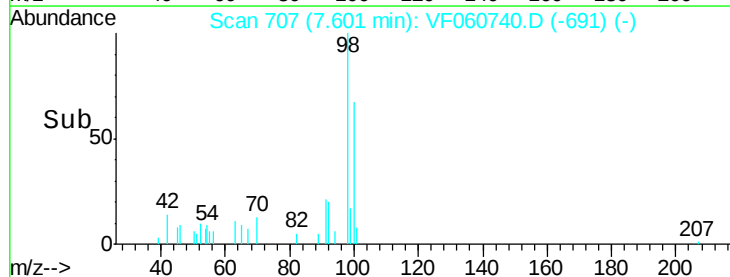
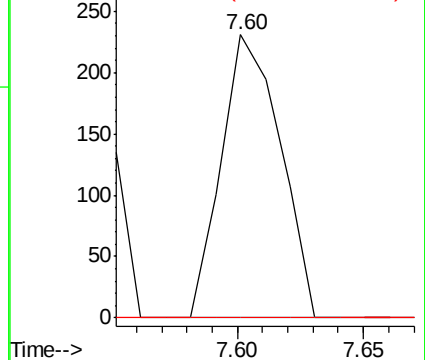
63 100

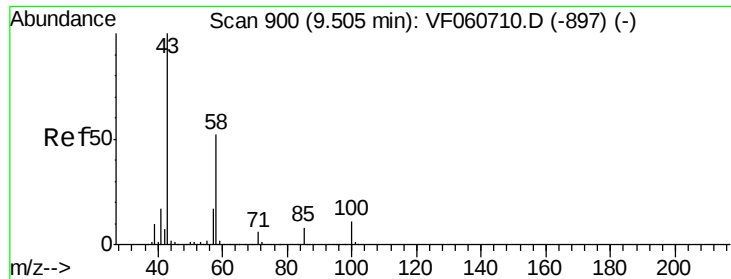
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

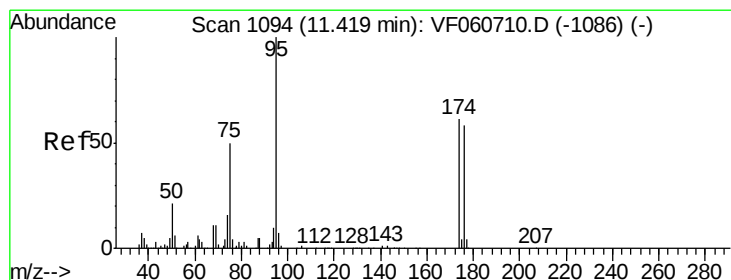
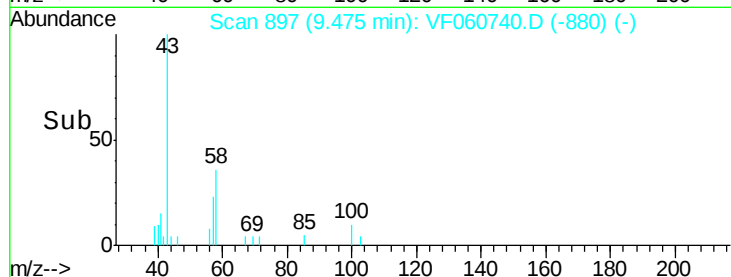
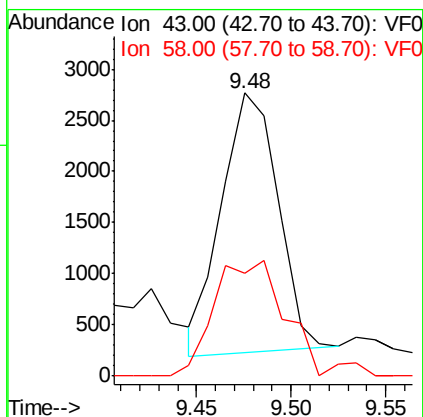
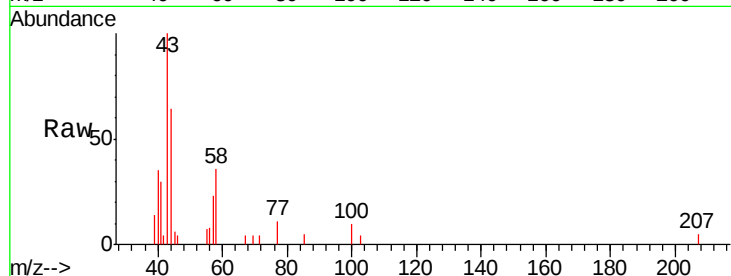




#59
2-Hexanone
Concen: 4.42 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.03 min
Lab File: VF060740.D
Acq: 15 Nov 2018 11:23

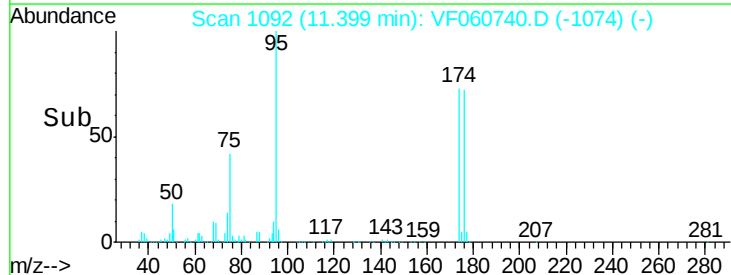
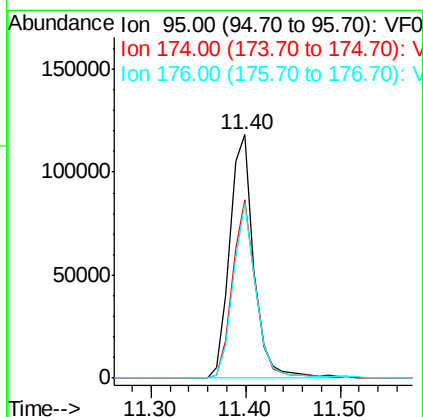
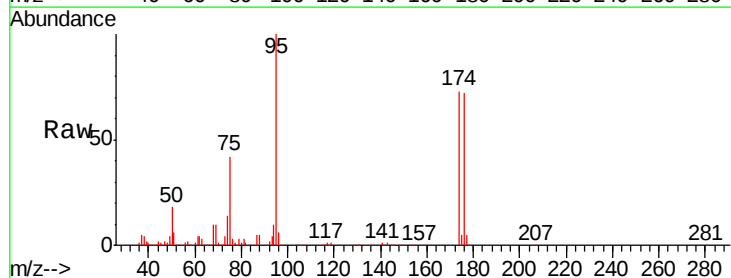
Instrument :
MSVOA_F
ClientSampleId :
VF1115SBL01

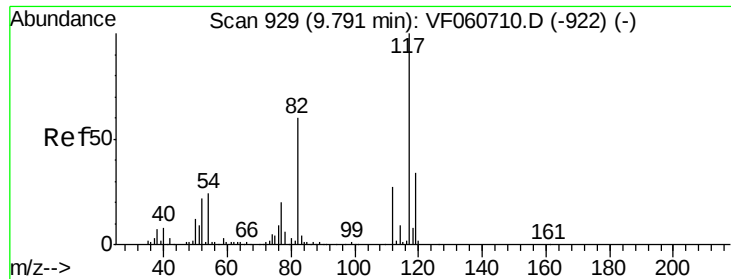
Tgt Ion: 43 Resp: 5248
Ion Ratio Lower Upper
43 100
58 36.2 24.9 74.7



#62
4-Bromofluorobenzene
Concen: 58.56 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.02 min
Lab File: VF060740.D
Acq: 15 Nov 2018 11:23

Tgt Ion: 95 Resp: 210200
Ion Ratio Lower Upper
95 100
174 73.5 0.0 121.6
176 71.9 0.0 115.2

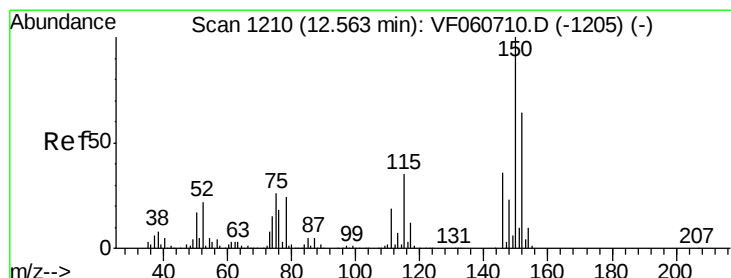
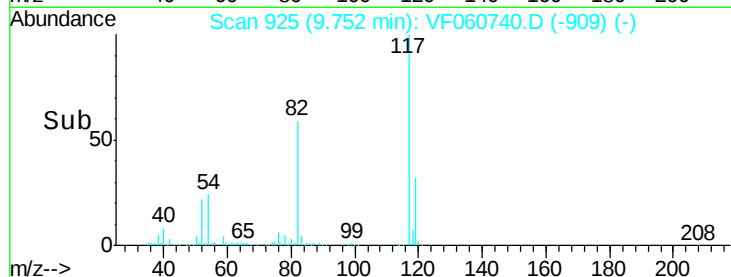
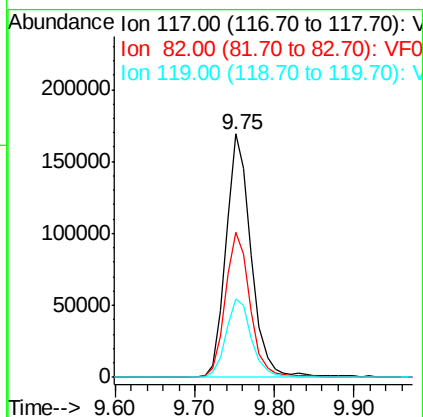
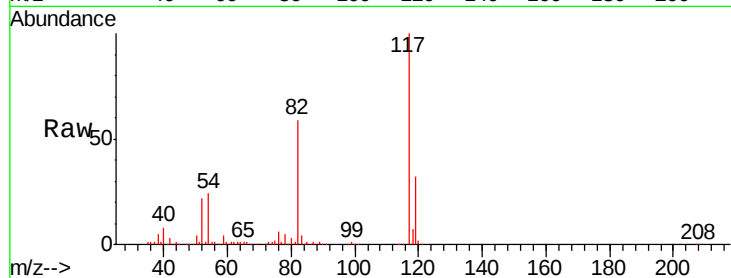




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.04 min
Lab File: VF060740.D
Acq: 15 Nov 2018 11:23

Instrument :
MSVOA_F
ClientSampleId :
VF1115SBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	59.4	47.9	71.9
119	32.3	26.8	40.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.53 min Scan# 1207
Delta R.T. -0.03 min
Lab File: VF060740.D
Acq: 15 Nov 2018 11:23

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.2	27.9	83.7
150	152.7	0.0	316.4

