

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120718\
 Data File : VF060938.D
 Acq On : 7 Dec 2018 19:34
 Operator : VA/AP
 Sample : J6214-21RE
 Misc : 4.36g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-8(0-2)RE

Quant Time: Dec 08 01:57:32 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	4.85	168	114051	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	5.58	114	186061	50.00	ug/l	-0.06
63) Chlorobenzene-d5	9.76	117	138330	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.54	152	41950	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	63964	47.61	ug/l	-0.06
Spiked Amount			Recovery	=	95.22%	
35) Dibromofluoromethane	4.09	113	68704	46.55	ug/l	-0.06
Spiked Amount			Recovery	=	93.10%	
50) Toluene-d8	7.54	98	167075	38.43	ug/l	-0.05
Spiked Amount			Recovery	=	76.86%	
62) 4-Bromofluorobenzene	11.40	95	51640	26.13	ug/l	-0.04
Spiked Amount			Recovery	=	52.26%	

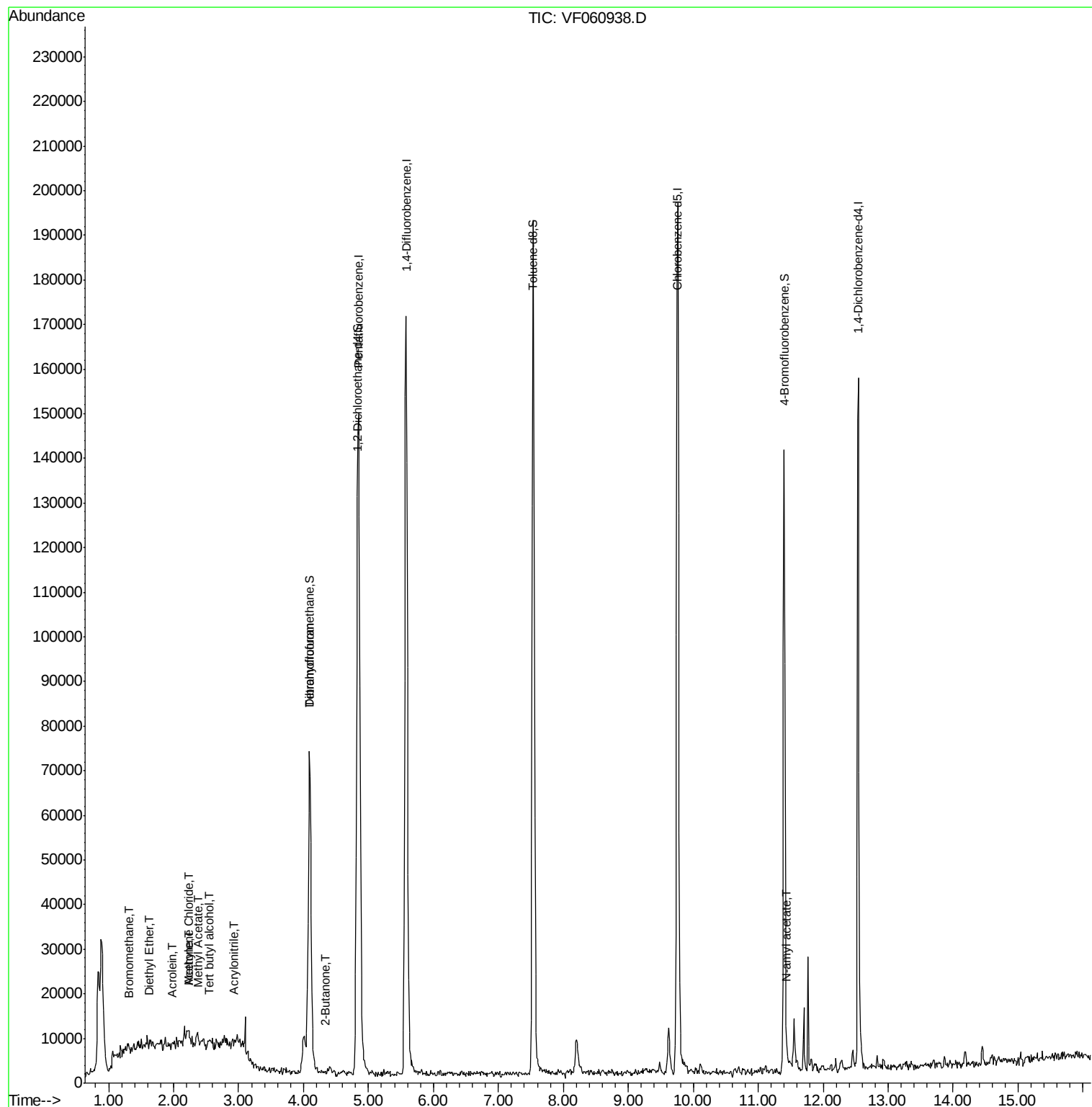
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.30	94	1042	1.428	ug/l #	2
8) Diethyl Ether	1.62	74	379	1.187	ug/l	83
11) Tert butyl alcohol	2.54	59	75	1.362	ug/l #	1
13) Acrolein	1.97	56	460	8.815	ug/l	86
15) Acrylonitrile	2.94	53	381	3.086	ug/l #	5
16) Acetone	2.24	43	1547	6.244	ug/l	95
18) Methyl Acetate	2.36	43	1129	1.102	ug/l #	61
20) Methylene Chloride	2.23	84	2514	2.766	ug/l #	92
25) 2-Butanone	4.33	43	464	1.083	ug/l #	57
29) Tetrahydrofuran	4.08	42	1098	6.045	ug/l #	37
41) Methacrylonitrile	4.73	41	425	Below Cal	#	55
43) Isopropyl Acetate	6.90	43	248	Below Cal	#	49
74) N-amyl acetate	11.44	43	801	1.046	ug/l #	45
95) Naphthalene	14.45	128	1857	Below Cal	#	91

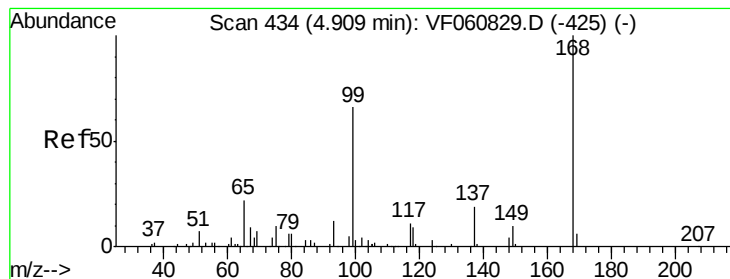
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.85 min Scan# 428

Delta R.T. -0.06 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

Instrument :

MSVOA_F

ClientSampleId :

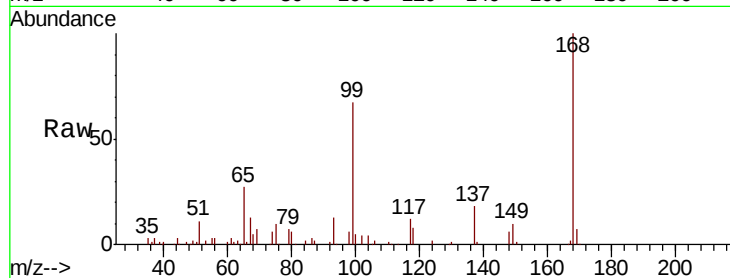
SB-8(0-2)RE

Tot Ion:168 Resp: 114051

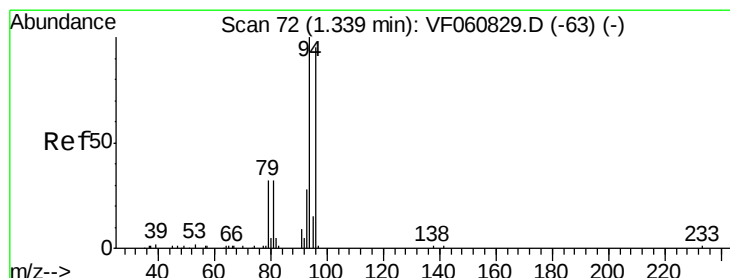
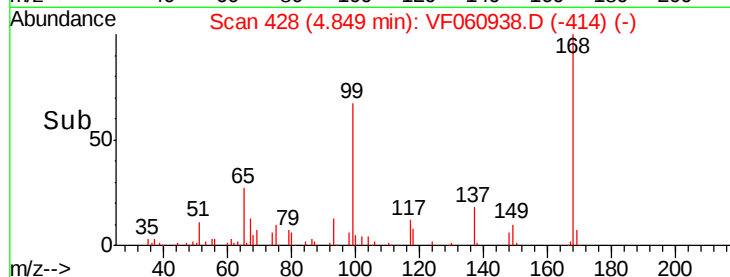
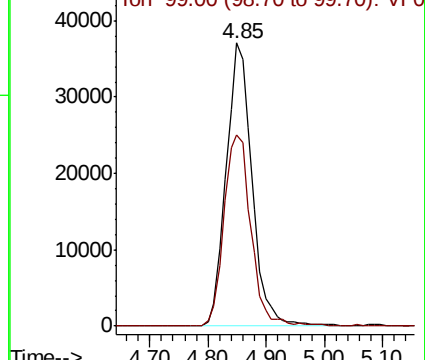
Ion Ratio Lower Upper

168 100

99 67.4 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#5

Bromomethane

Concen: 1.428 ug/l

RT: 1.30 min Scan# 68

Delta R.T. -0.04 min

Lab File: VF060938.D

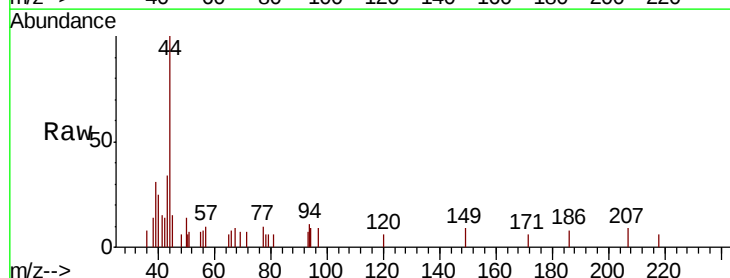
Acq: 7 Dec 2018 19:34

Tgt Ion: 94 Resp: 1042

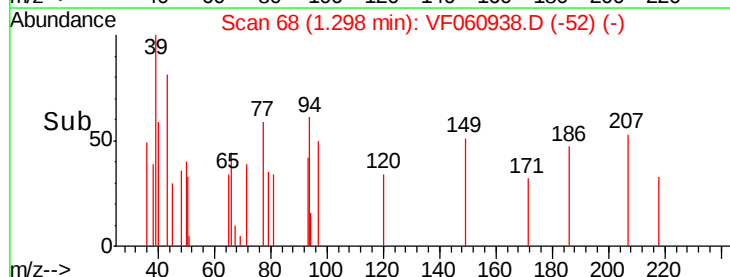
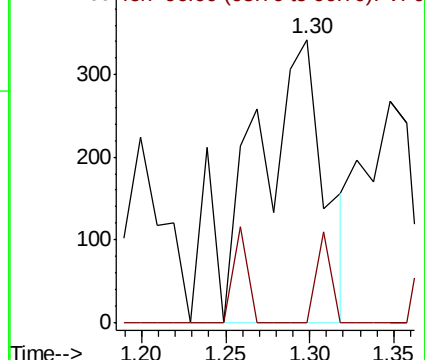
Ion Ratio Lower Upper

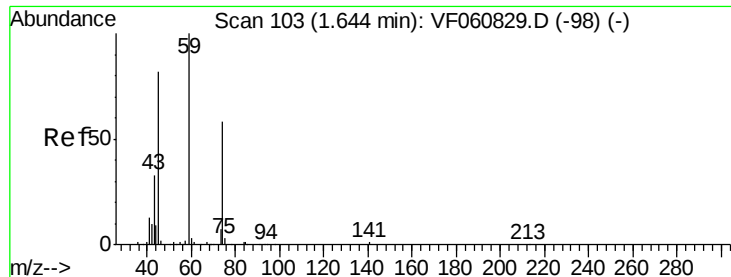
94 100

96 0.0 75.9 113.9#



Abundance Ion 94.00 (93.70 to 94.70): VF0

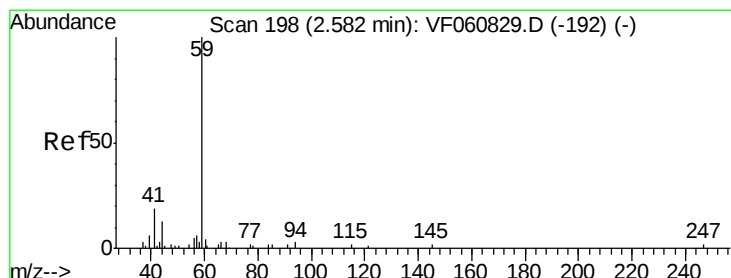
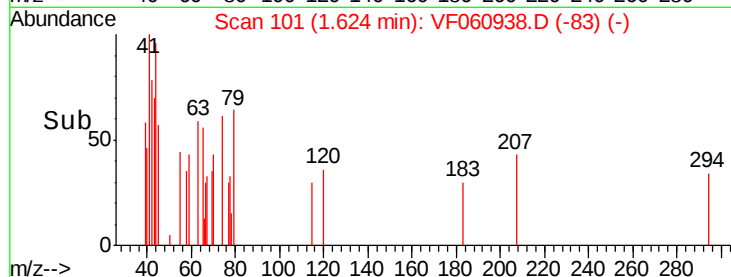
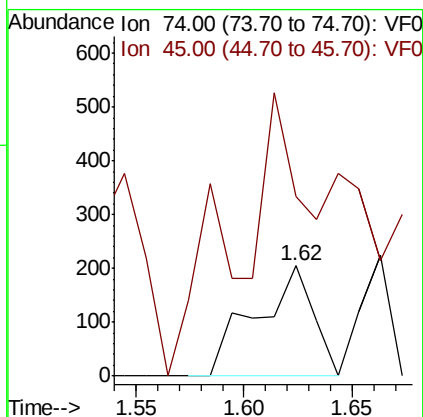
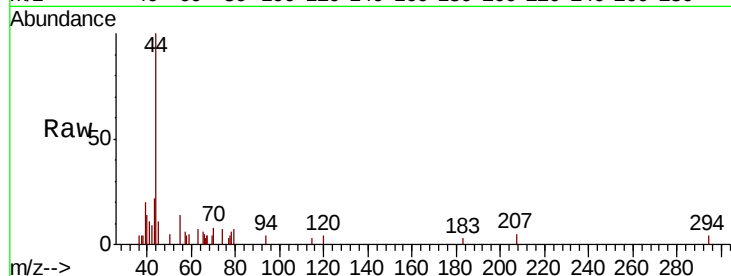




#8
Diethyl Ether
Concen: 1.187 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.02 min
Lab File: VF060938.D
Acq: 7 Dec 2018 19:34

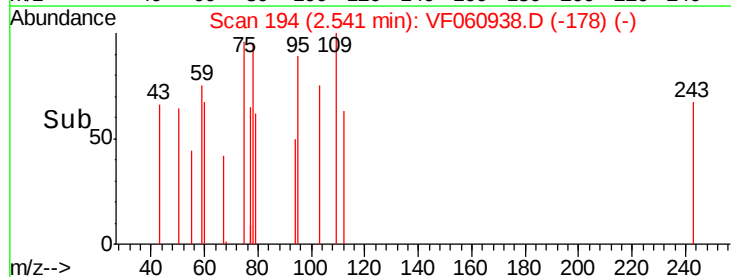
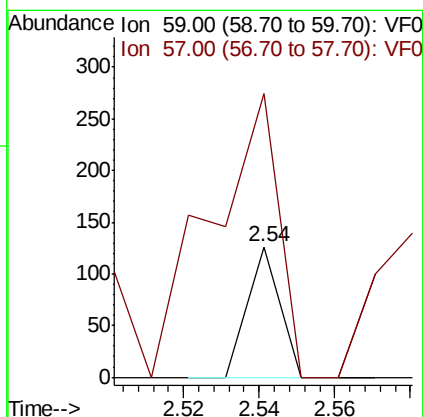
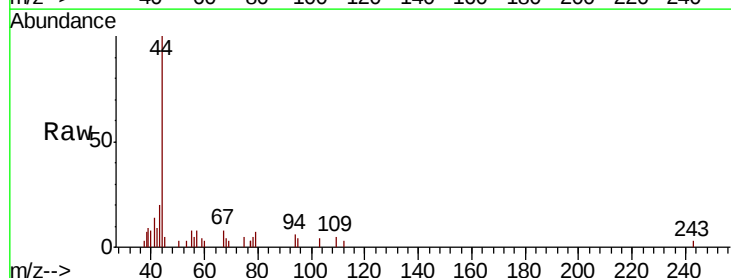
Instrument :
MSVOA_F
ClientSampleId :
SB-8(0-2)RE

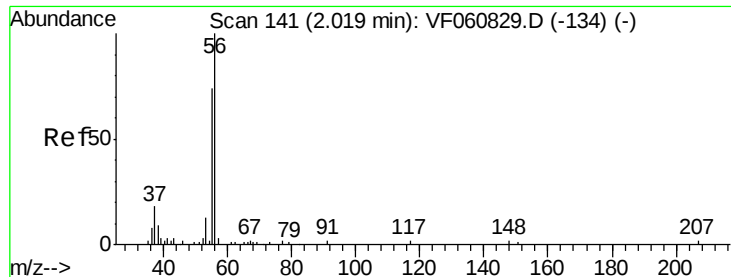
Tot Ion: 74 Resp: 379
Ion Ratio Lower Upper
74 100
45 162.4 71.0 212.8



#11
Tert butyl alcohol
Concen: 1.362 ug/l
RT: 2.54 min Scan# 194
Delta R.T. -0.04 min
Lab File: VF060938.D
Acq: 7 Dec 2018 19:34

Tgt Ion: 59 Resp: 75
Ion Ratio Lower Upper
59 100
57 217.5 12.7 19.1#





#13

Acrolein

Concen: 8.815 ug/l

RT: 1.97 min Scan# 136

Delta R.T. -0.05 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

Instrument :

MSVOA_F

ClientSampleId :

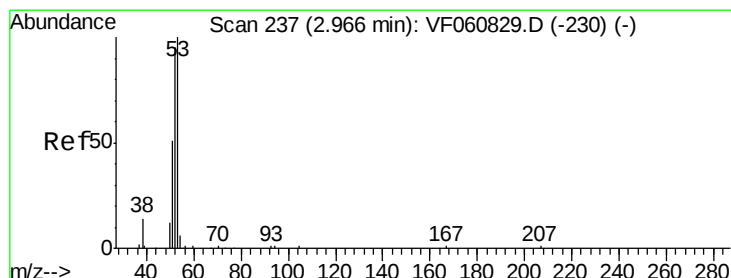
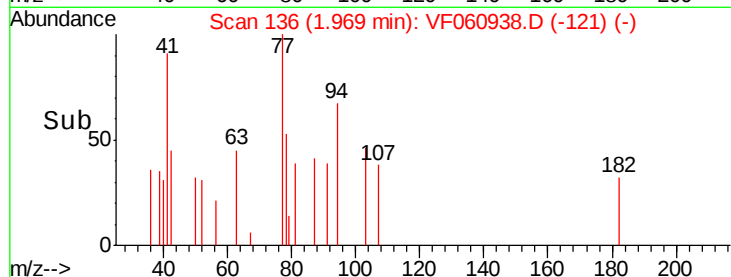
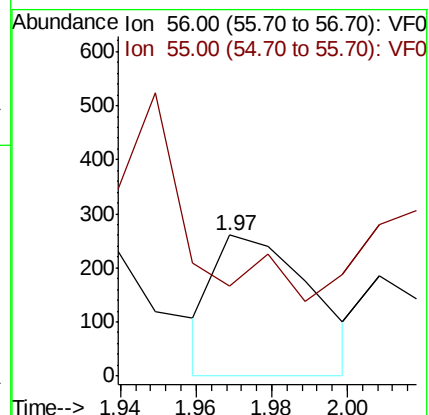
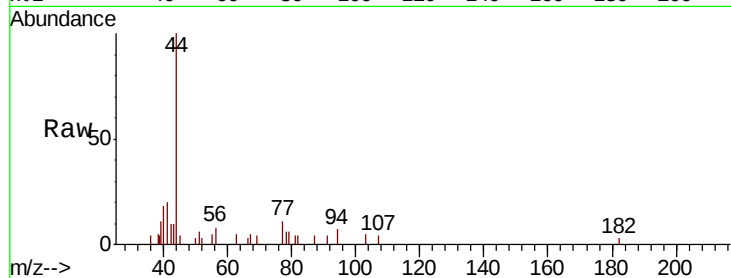
SB-8(0-2)RE

Tot Ion: 56 Resp: 460

Ion Ratio Lower Upper

56 100

55 64.2 61.2 91.8



#15

Acrylonitrile

Concen: 3.086 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

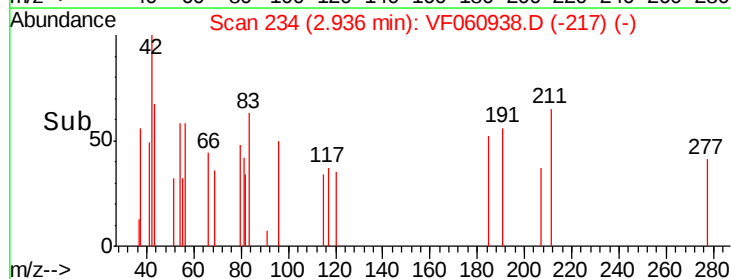
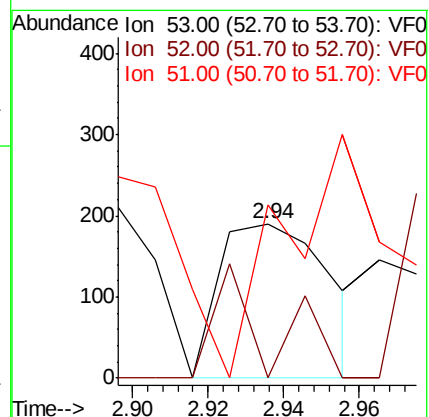
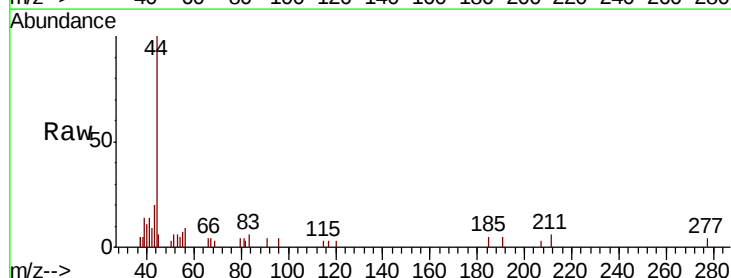
Tgt Ion: 53 Resp: 381

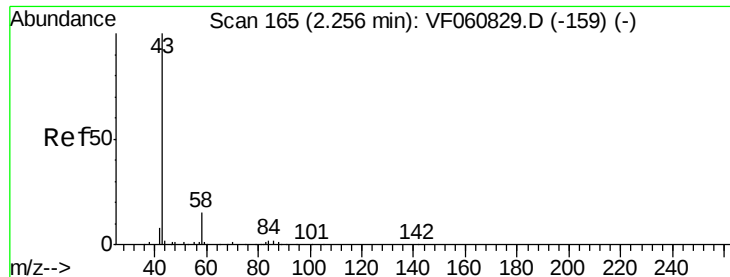
Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 112.1 40.7 61.1#





#16

Acetone

Concen: 6.244 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

Instrument :

MSVOA_F

ClientSampleId :

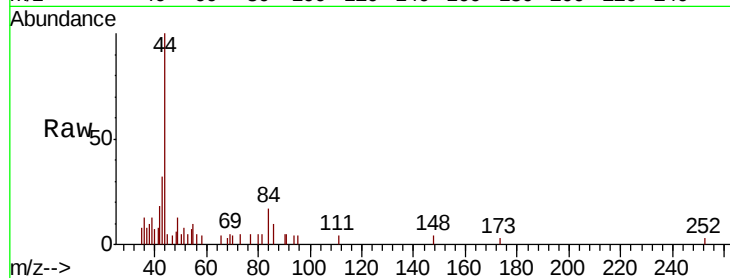
SB-8(0-2)RE

Tot Ion: 43 Resp: 1547

Ion Ratio Lower Upper

43 100

58 12.2 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.24

1000

800

600

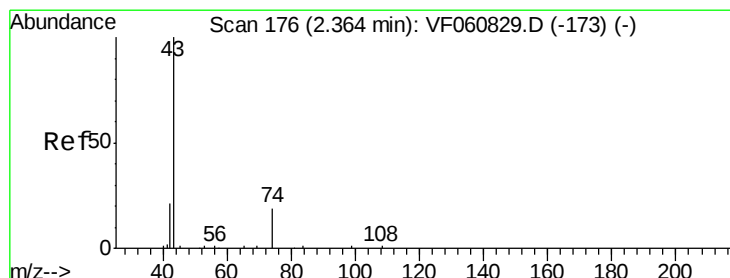
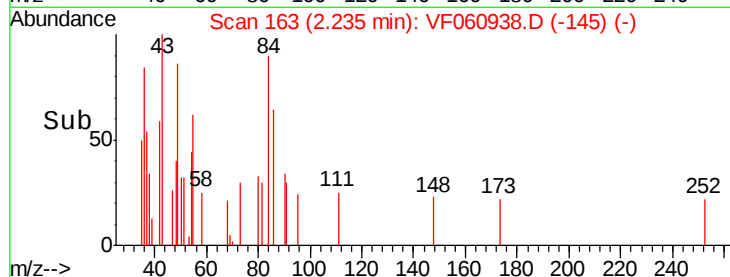
400

200

0

Time-->

2.20 2.25 2.30



#18

Methyl Acetate

Concen: 1.102 ug/l

RT: 2.36 min Scan# 176

Delta R.T. -0.00 min

Lab File: VF060938.D

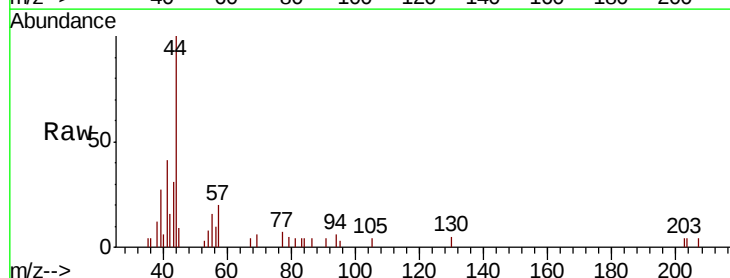
Acq: 7 Dec 2018 19:34

Tgt Ion: 43 Resp: 1129

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2.36

1000

800

600

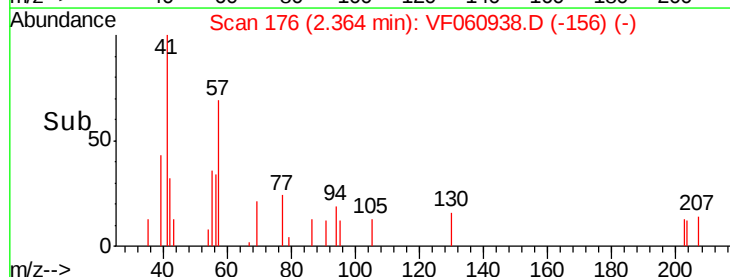
400

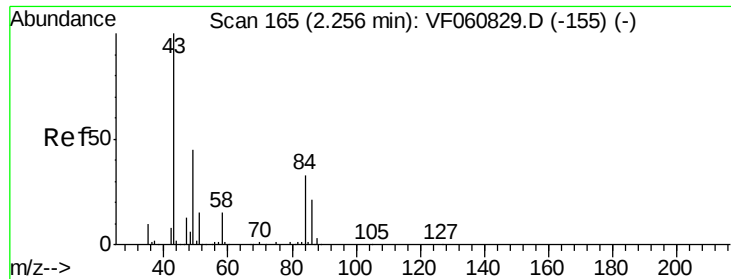
200

0

Time-->

2.30 2.35 2.40

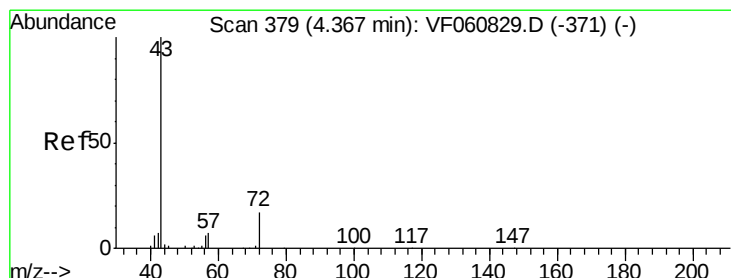
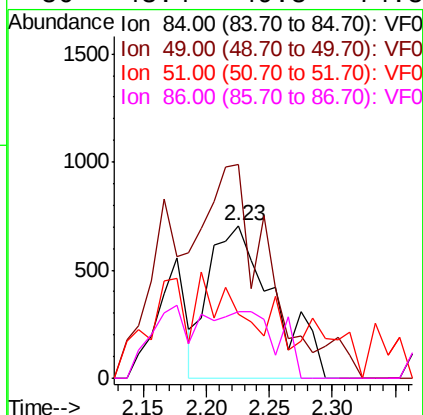
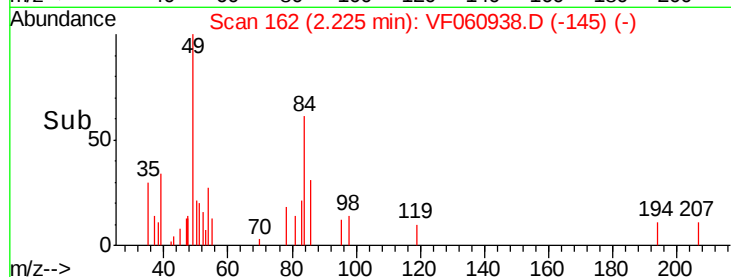
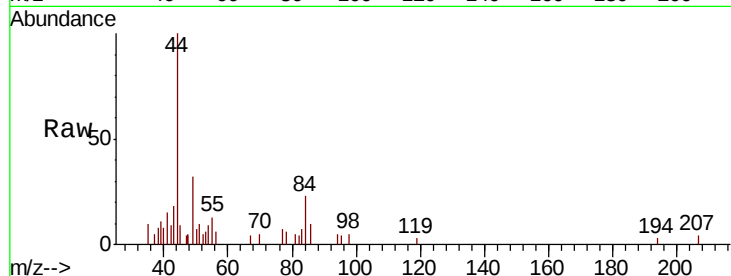




#20
Methylene Chloride
Concen: 2.766 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.03 min
Lab File: VF060938.D
Acq: 7 Dec 2018 19:34

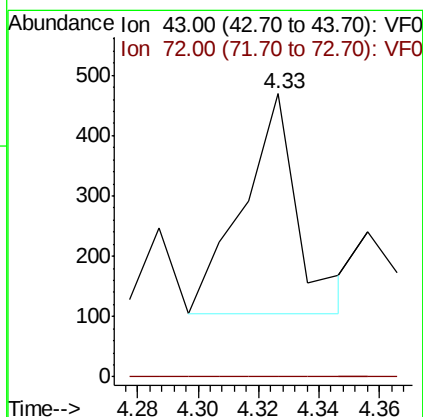
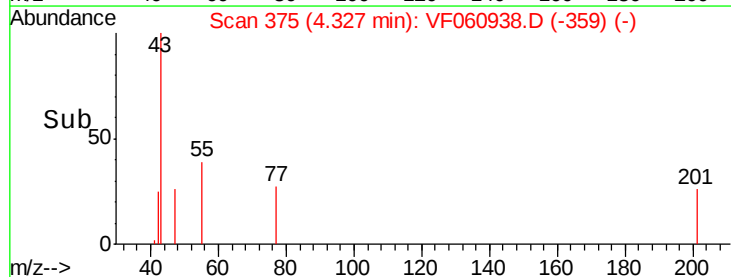
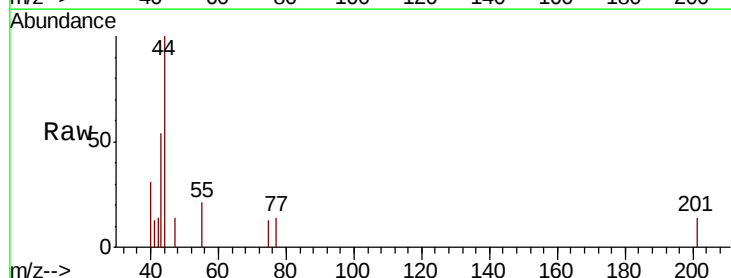
Instrument :
MSVOA_F
ClientSampleId :
SB-8(0-2)RE

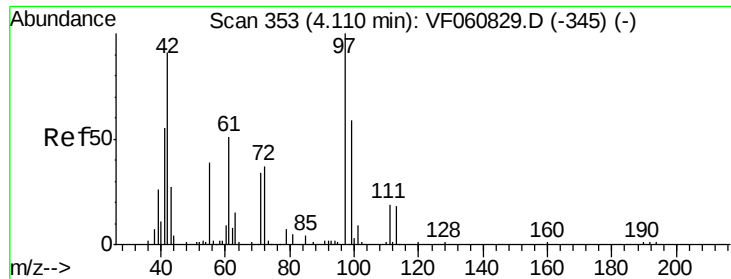
Tot Ion: 84 Resp: 2514
Ion Ratio Lower Upper
84 100
49 139.7 111.3 166.9
51 42.1 38.0 57.0
86 43.4 49.8 74.8#



#25
2-Butanone
Concen: 1.083 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.04 min
Lab File: VF060938.D
Acq: 7 Dec 2018 19:34

Tgt Ion: 43 Resp: 464
Ion Ratio Lower Upper
43 100
72 0.0 15.4 23.2#





#29

Tetrahydrofuran

Concen: 6.045 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

Instrument :

MSVOA_F

ClientSampleId :

SB-8(0-2)RE

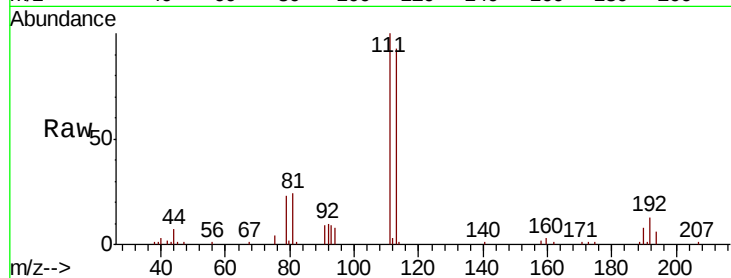
Tot Ion: 42 Resp: 1098

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

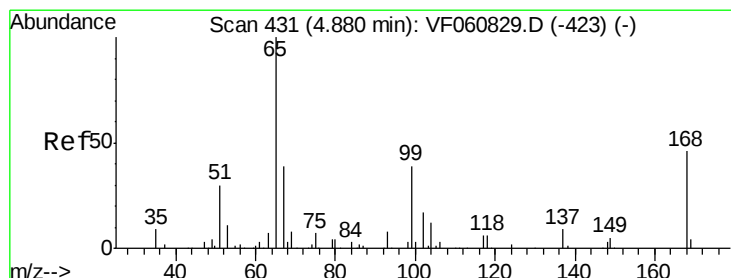
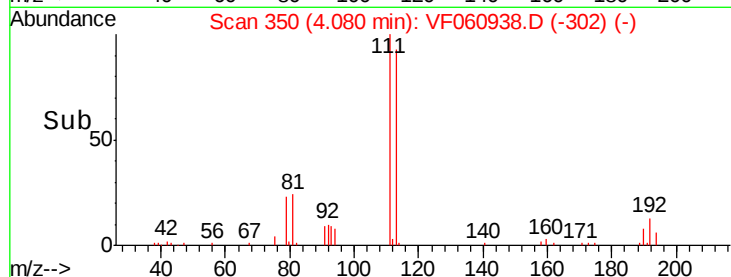
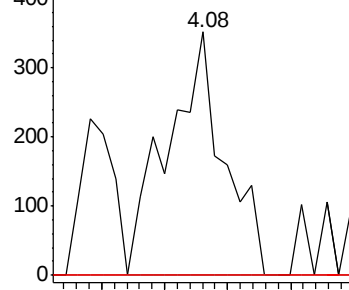
71 0.0 28.7 43.1#



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: 47.608 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.06 min

Lab File: VF060938.D

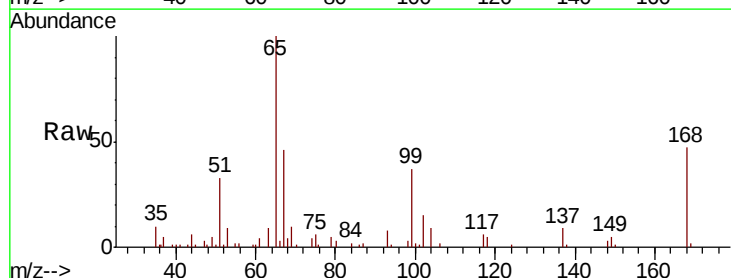
Acq: 7 Dec 2018 19:34

Tgt Ion: 65 Resp: 63964

Ion Ratio Lower Upper

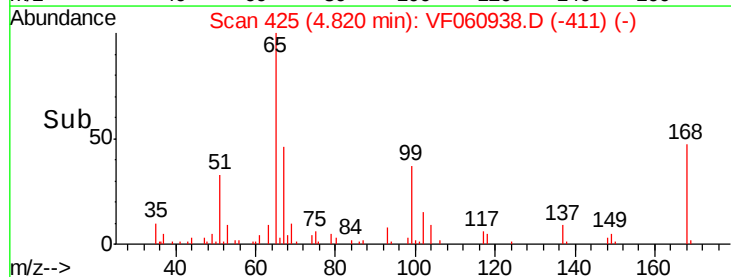
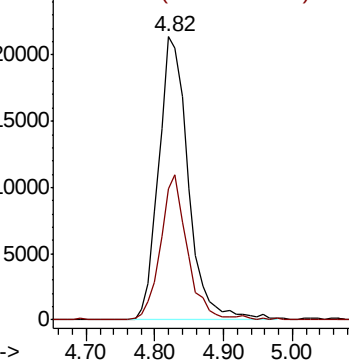
65 100

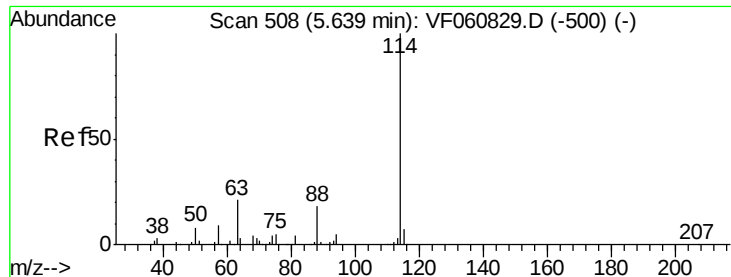
67 46.3 0.0 96.4



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: 5.58 min Scan# 502

Delta R.T. -0.06 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

Instrument :

MSVOA_F

ClientSampleId :

SB-8(0-2)RE

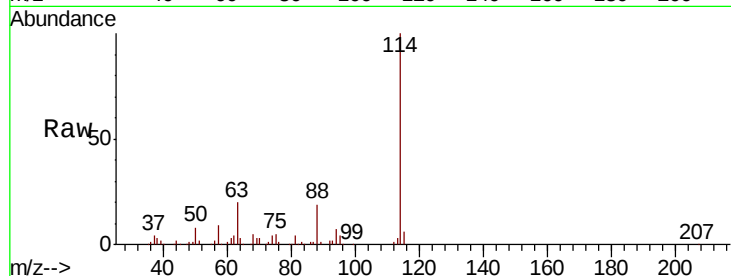
Tot Ion:114 Resp: 186061

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.6

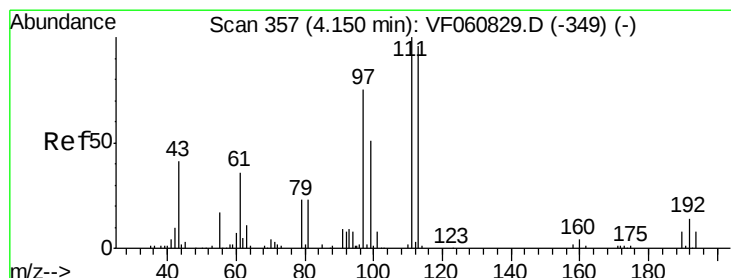
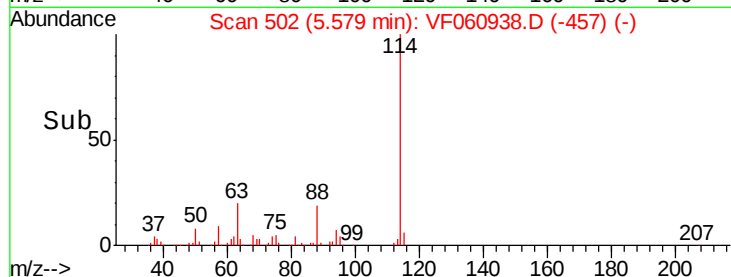
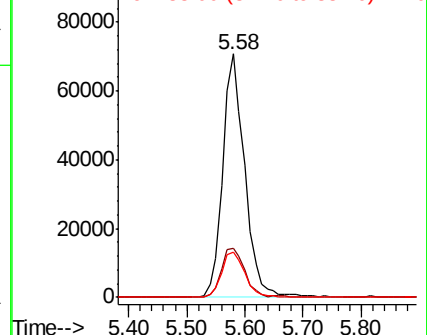
88 18.7 0.0 36.6



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: 46.545 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.06 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

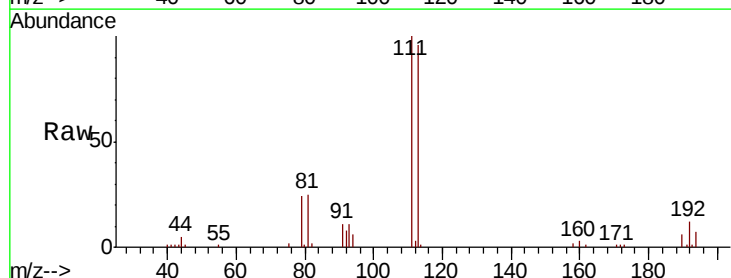
Tgt Ion:113 Resp: 68704

Ion Ratio Lower Upper

113 100

111 103.6 83.0 124.6

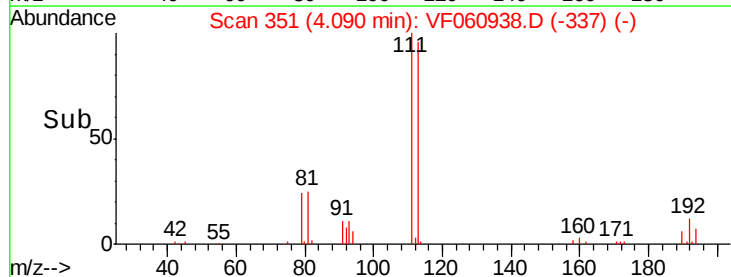
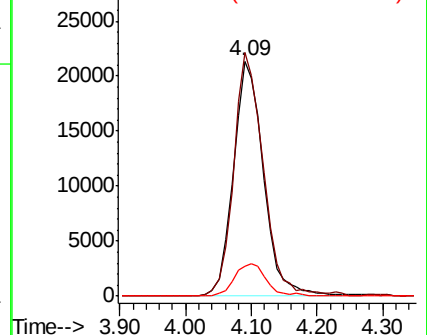
192 12.6 12.3 18.5

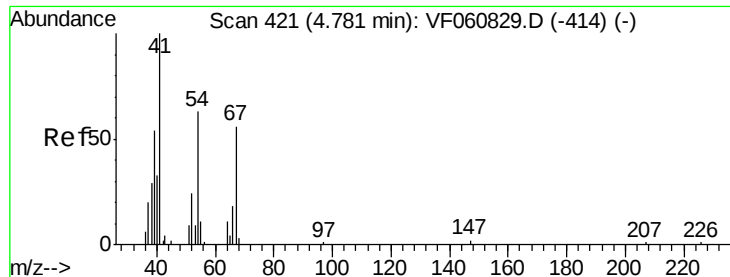


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: Below Cal

RT: 4.73 min Scan# 416

Delta R.T. -0.05 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

Instrument :

MSVOA_F

ClientSampled :

SB-8(0-2)RE

Tot Ion: 41 Resp: 425

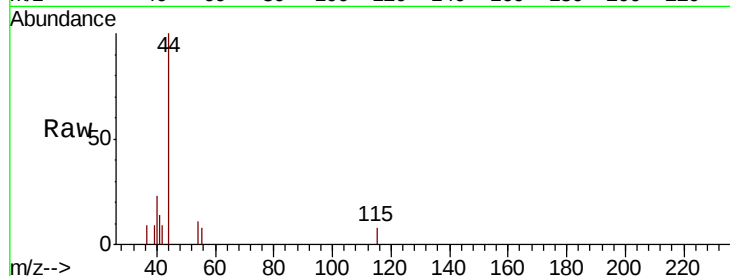
Ion Ratio Lower Upper

41 100

39 66.3 53.0 79.6

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

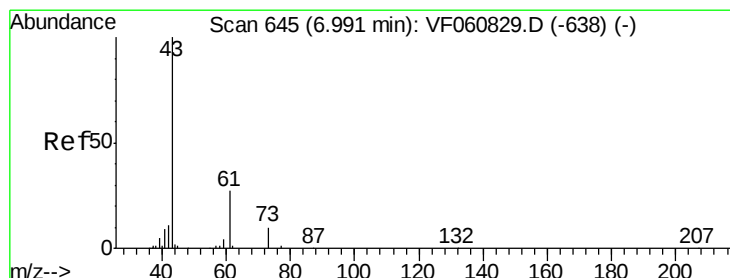
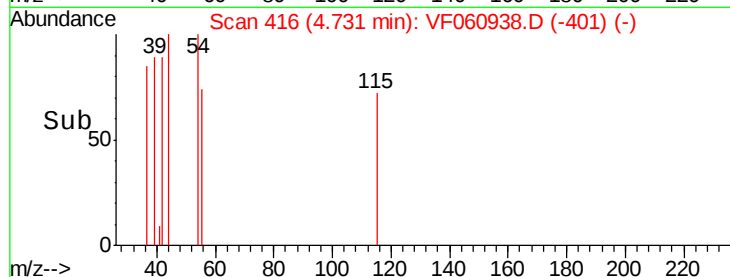
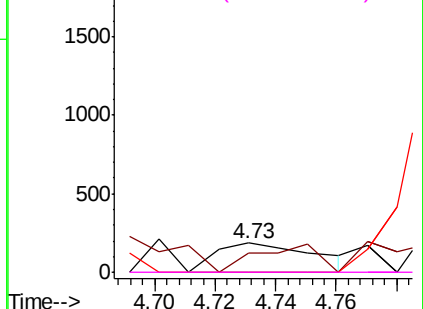


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#43

Isopropyl Acetate

Concen: Below Cal

RT: 6.90 min Scan# 636

Delta R.T. -0.09 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

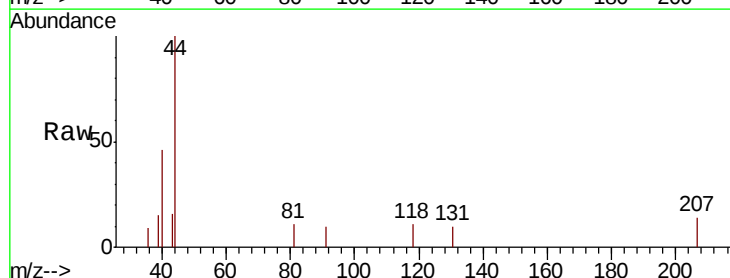
Tgt Ion: 43 Resp: 248

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

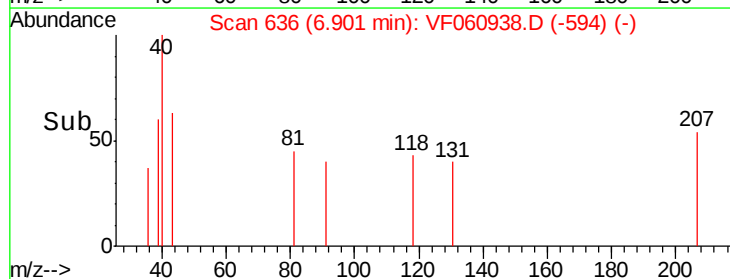
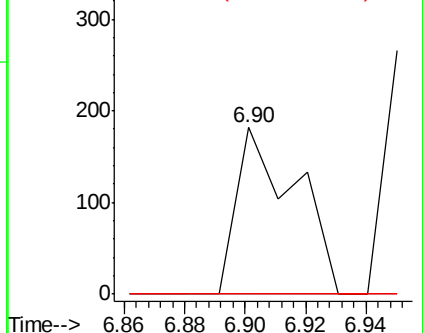
87 0.0 0.2 0.4#

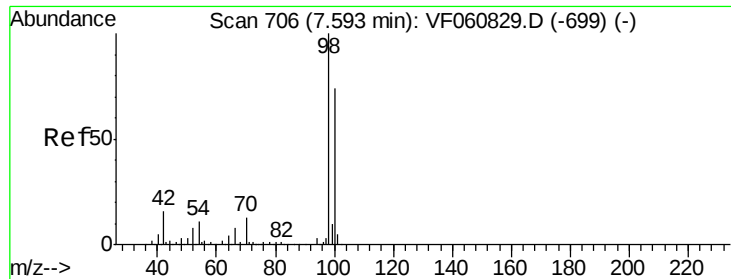


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#50

Toluene-d8

Concen: 38.425 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.05 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

Instrument :

MSVOA_F

ClientSampleId :

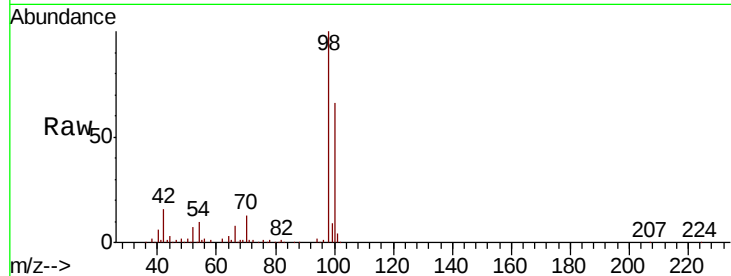
SB-8(0-2)RE

Tot Ion: 98 Resp: 167075

Ion Ratio Lower Upper

98 100

100 65.6 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.54

80000

60000

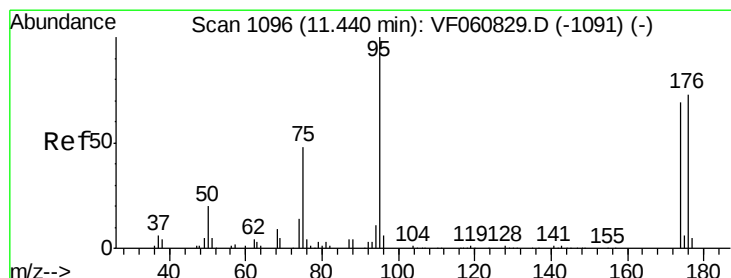
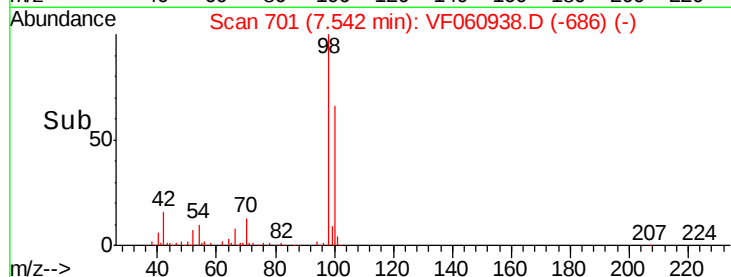
40000

20000

0

Time-->

7.40 7.50 7.60 7.70



#62

4-Bromofluorobenzene

Concen: 26.132 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.04 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

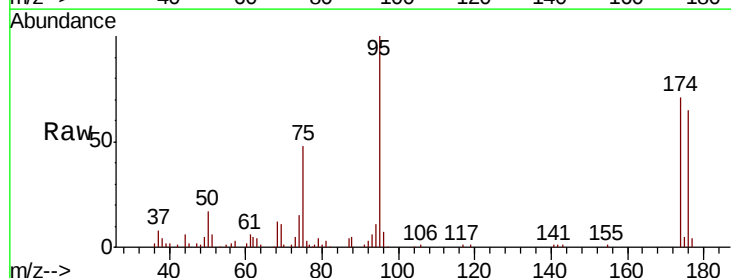
Tgt Ion: 95 Resp: 51640

Ion Ratio Lower Upper

95 100

174 70.9 0.0 138.2

176 65.5 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

40000

30000

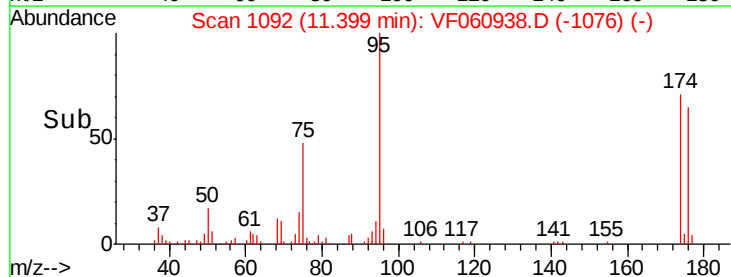
20000

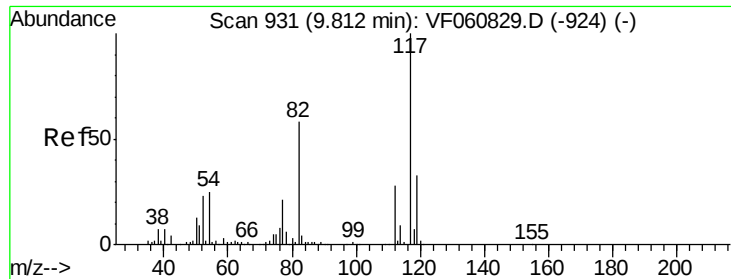
10000

0

Time-->

11.30 11.40 11.50

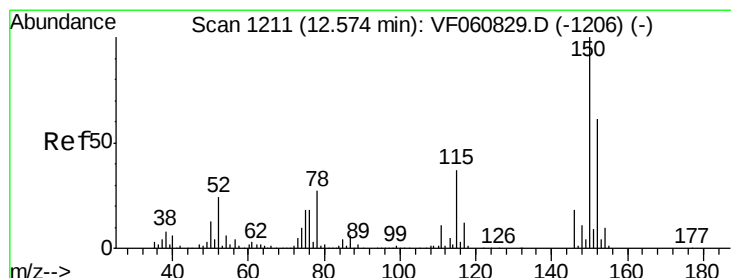
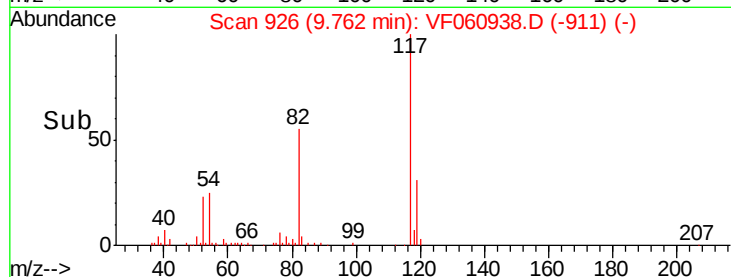
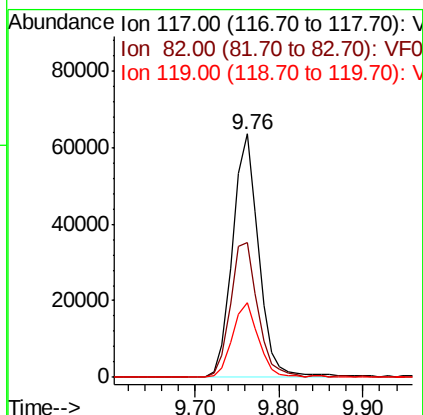
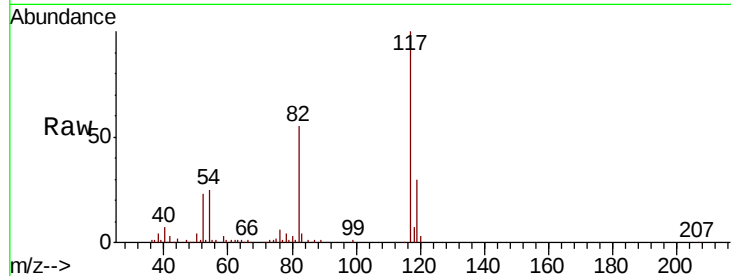




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.05 min
Lab File: VF060938.D
Acq: 7 Dec 2018 19:34

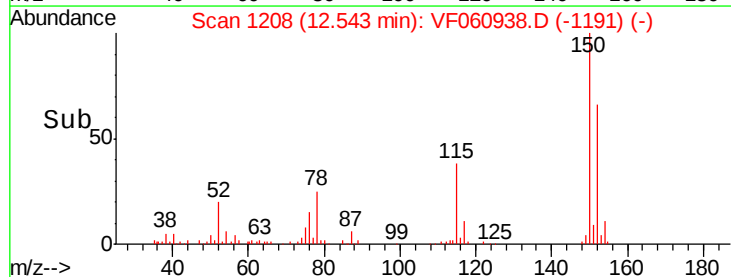
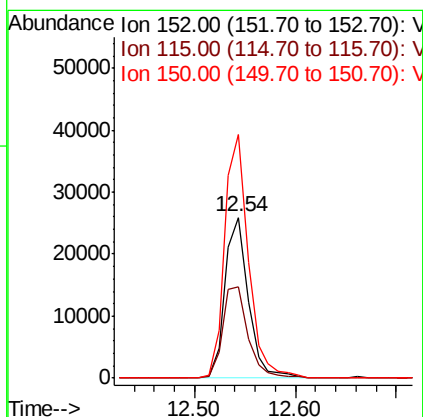
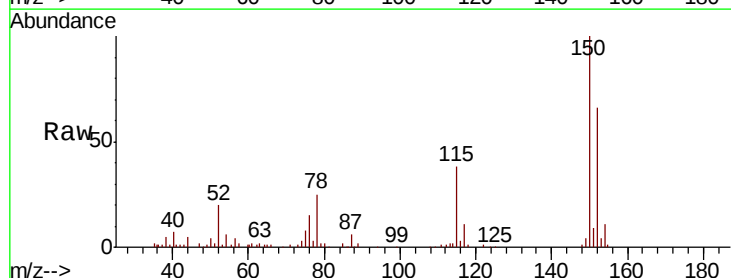
Instrument :
MSVOA_F
ClientSampleId :
SB-8(0-2)RE

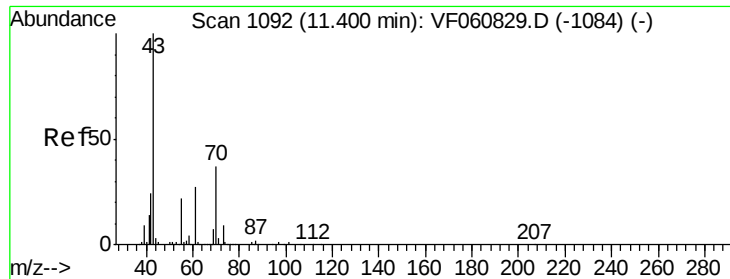
Tot Ion:117 Resp: 138330
Ion Ratio Lower Upper
117 100
82 55.2 46.6 69.8
119 30.5 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF060938.D
Acq: 7 Dec 2018 19:34

Tgt Ion:152 Resp: 41950
Ion Ratio Lower Upper
152 100
115 57.1 30.1 90.5
150 151.4 0.0 327.6





#74

N-amvl acetate

Concen: 1.046 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. 0.04 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

Instrument :

MSVOA_F

ClientSampleId :

SB-8(0-2)RE

Tot Ion: 43 Resp: 801

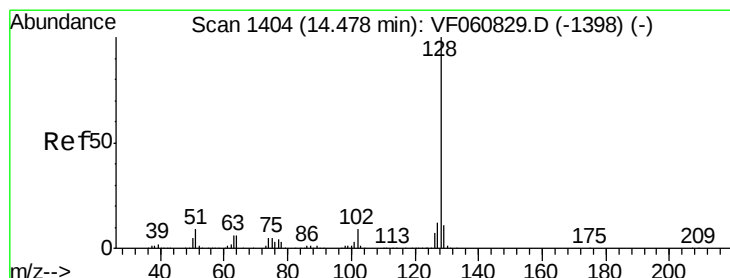
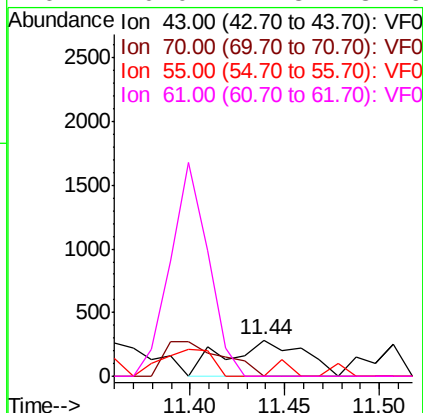
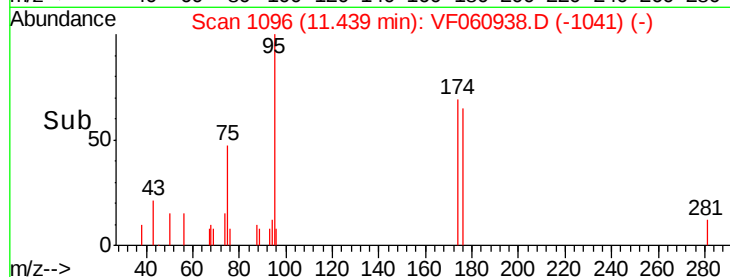
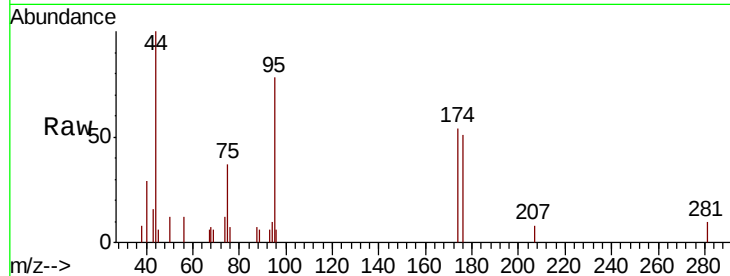
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 17.2 25.8#

61 0.0 21.8 32.6#



#95

Naphthalene

Concen: Below Cal

RT: 14.45 min Scan# 1401

Delta R.T. -0.03 min

Lab File: VF060938.D

Acq: 7 Dec 2018 19:34

Tgt Ion:128 Resp: 1857

Ion Ratio Lower Upper

128 100

127 9.8 9.9 14.9#

129 15.7 9.1 13.7#

