

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120718\
 Data File : VF060937.D
 Acq On : 7 Dec 2018 19:05
 Operator : VA/AP
 Sample : J6214-19RE
 Misc : 4.71g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-9(0-2)

Quant Time: Dec 08 01:57:19 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	214289	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	5.58	114	355910	50.00	ug/l	-0.06
63) Chlorobenzene-d5	9.76	117	304769	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.54	152	153551	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	109650	43.44	ug/l	-0.05
Spiked Amount			Recovery	=	86.88%	
35) Dibromofluoromethane	4.09	113	122538	43.40	ug/l	-0.06
Spiked Amount			Recovery	=	86.80%	
50) Toluene-d8	7.54	98	304449	36.60	ug/l	-0.05
Spiked Amount			Recovery	=	73.20%	
62) 4-Bromofluorobenzene	11.40	95	143014	37.83	ug/l	-0.04
Spiked Amount			Recovery	=	75.66%	

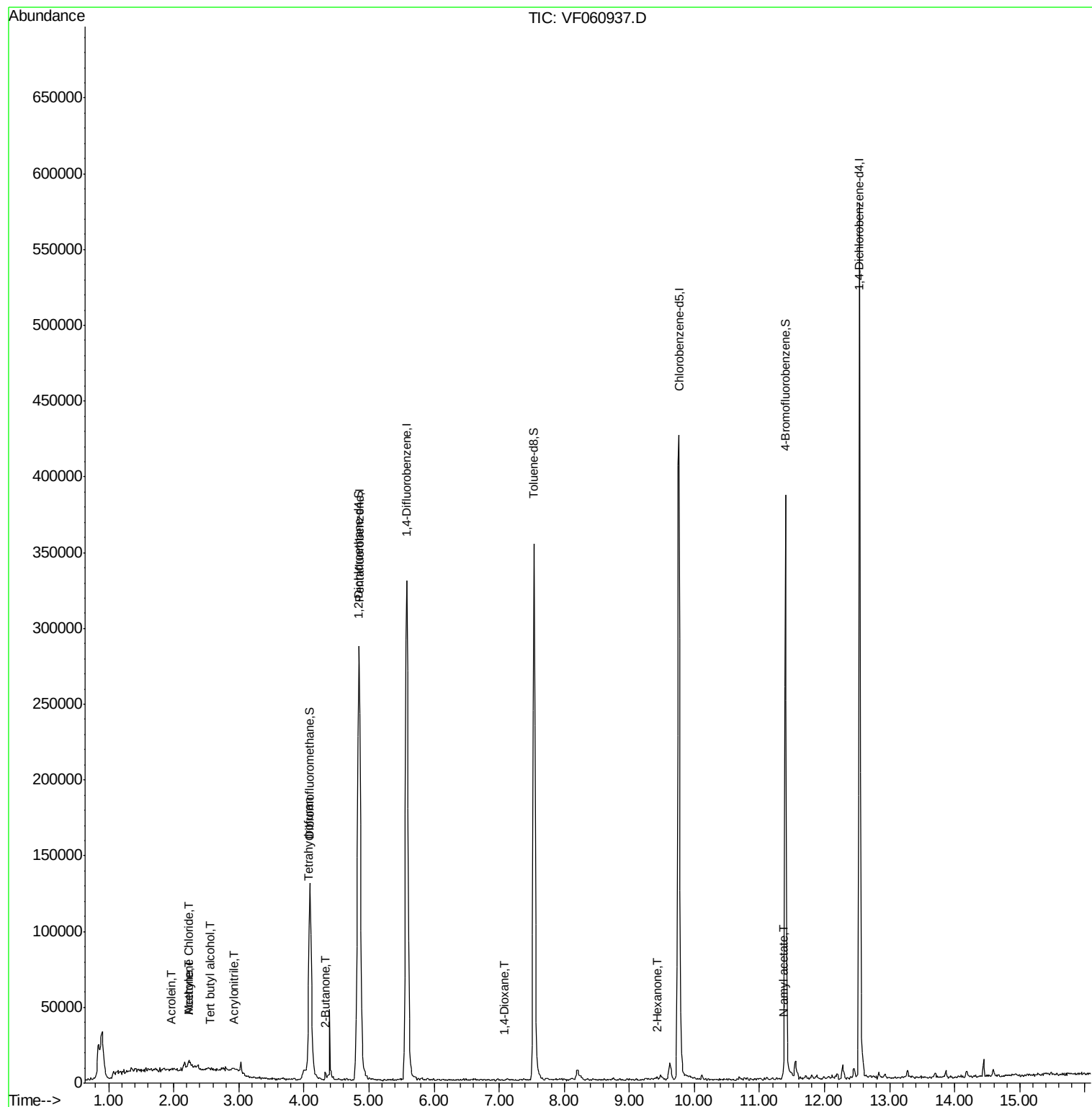
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	108	1.044	ug/l #	62
13) Acrolein	1.97	56	544	5.548	ug/l	95
15) Acrylonitrile	2.94	53	843	3.634	ug/l #	54
16) Acetone	2.23	43	1355	2.911	ug/l #	88
18) Methyl Acetate	2.34	43	980	Below Cal	#	61
20) Methylene Chloride	2.24	84	3672	2.150	ug/l #	75
25) 2-Butanone	4.34	43	1312	1.629	ug/l #	57
29) Tetrahydrofuran	4.07	42	935	2.740	ug/l #	77
41) Methacrylonitrile	4.74	41	491	Below Cal	#	55
43) Isopropyl Acetate	6.91	43	732	Below Cal	#	49
49) 1,4-Dioxane	7.08	88	60	5.646	ug/l #	1
59) 2-Hexanone	9.43	43	1364	1.314	ug/l #	27
74) N-amyl acetate	11.36	43	3136	1.119	ug/l #	83
95) Naphthalene	14.45	128	6377	Below Cal	#	92

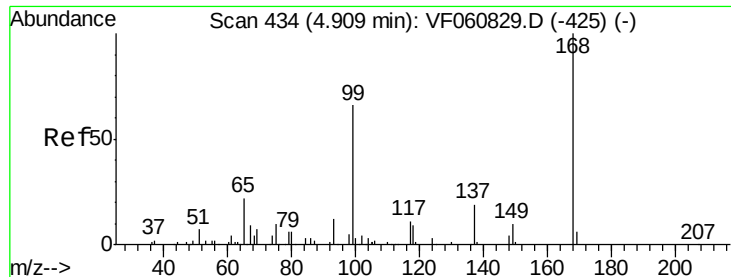
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060937.D

Acq: 7 Dec 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

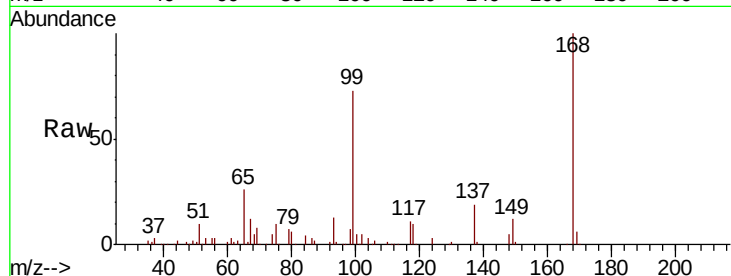
SB-9(0-2)

Tot Ion:168 Resp: 214289

Ion Ratio Lower Upper

168 100

99 72.6 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

60000

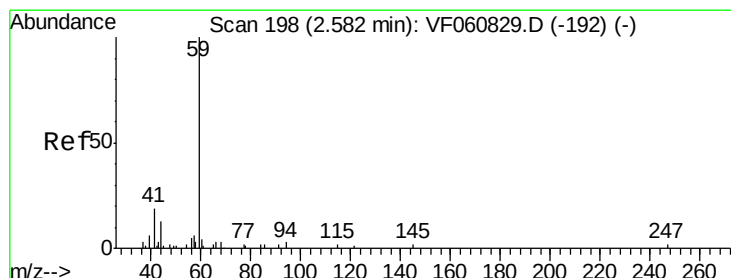
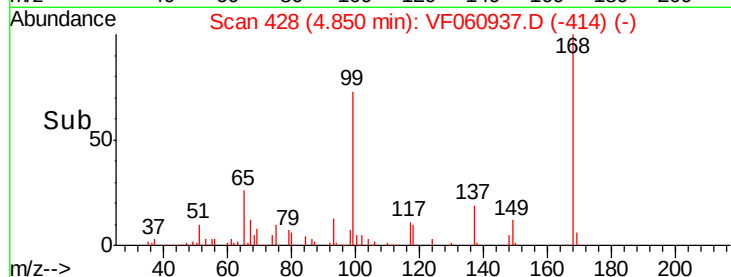
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.044 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF060937.D

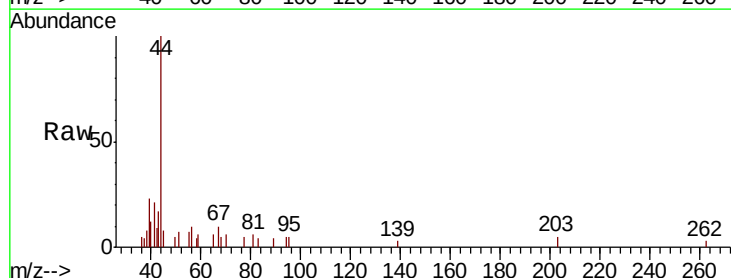
Acq: 7 Dec 2018 19:05

Tgt Ion: 59 Resp: 108

Ion Ratio Lower Upper

59 100

57 0.0 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

500

400

300

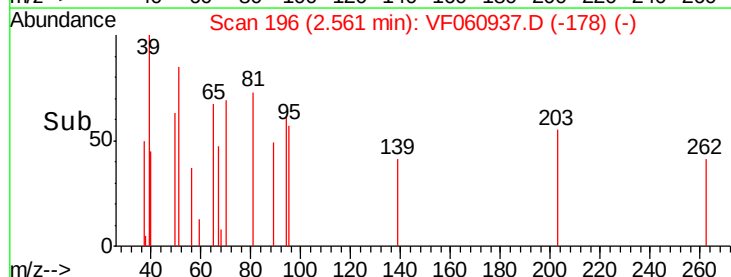
200

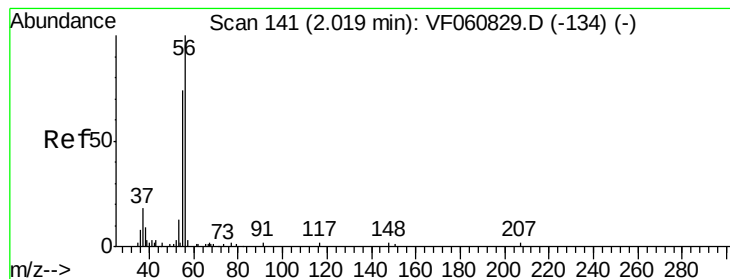
100

0

Time-->

2.54 2.56 2.58





#13

Acrolein

Concen: 5.548 ug/l

RT: 1.97 min Scan# 136

Delta R.T. -0.05 min

Lab File: VF060937.D

Acq: 7 Dec 2018 19:05

Instrument :

MSVOA_F

ClientSampled :

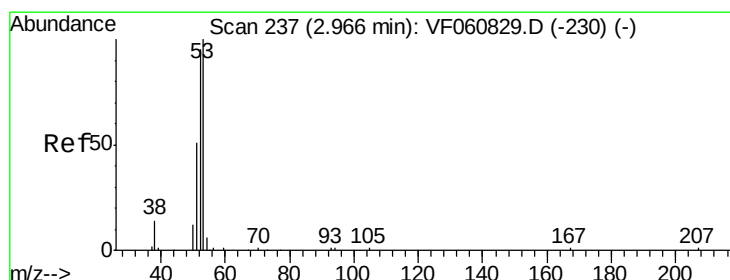
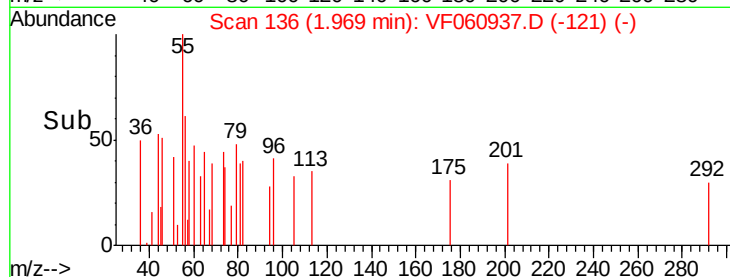
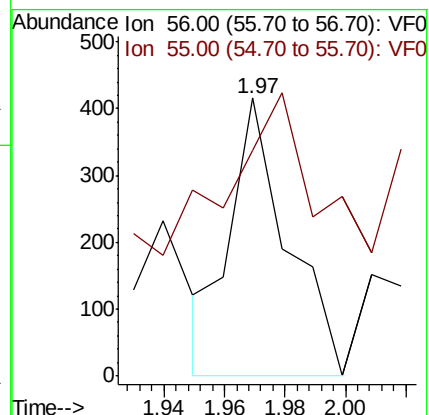
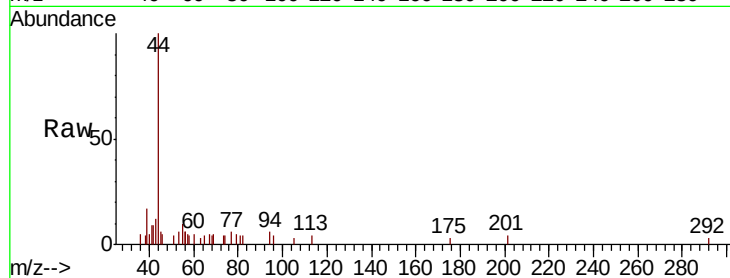
SB-9(0-2)

Tot Ion: 56 Resp: 544

Ion Ratio Lower Upper

56 100

55 81.0 61.2 91.8



#15

Acrylonitrile

Concen: 3.634 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF060937.D

Acq: 7 Dec 2018 19:05

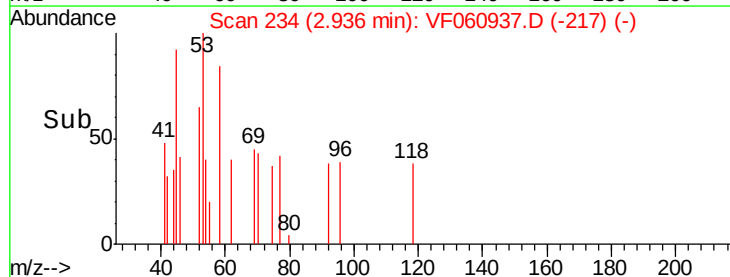
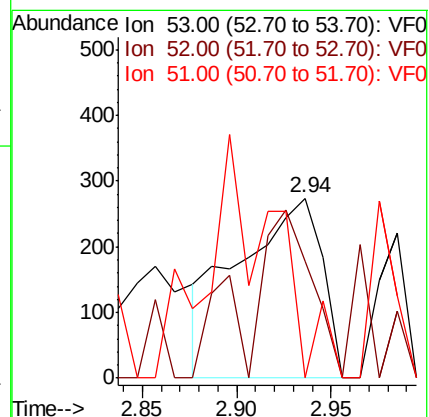
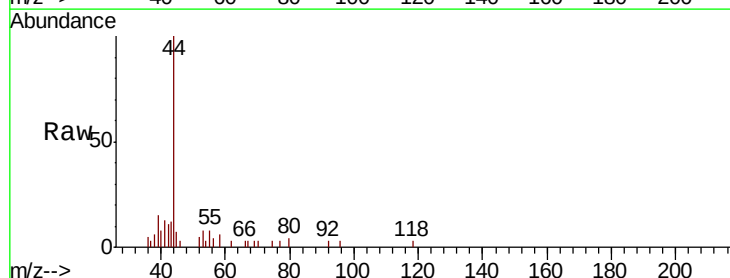
Tgt Ion: 53 Resp: 843

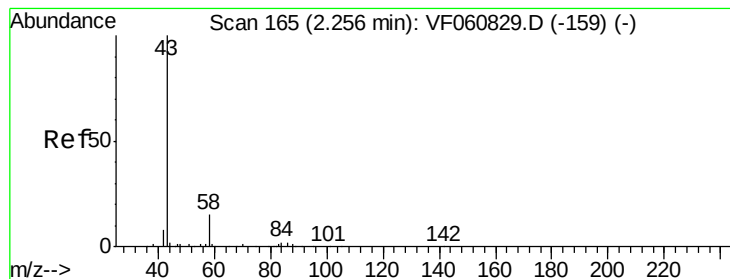
Ion Ratio Lower Upper

53 100

52 65.3 76.5 114.7#

51 0.0 40.7 61.1#





#16

Acetone

Concen: 2.911 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF060937.D

Acq: 7 Dec 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

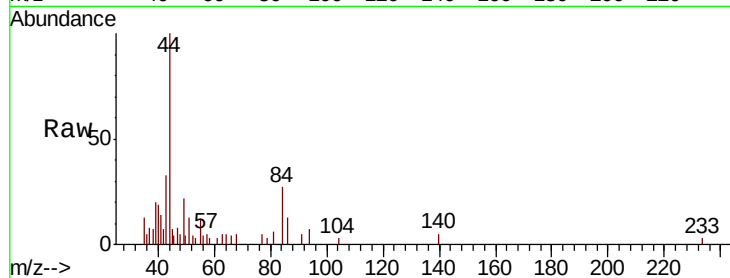
SB-9(0-2)

Tot Ion: 43 Resp: 1355

Ion Ratio Lower Upper

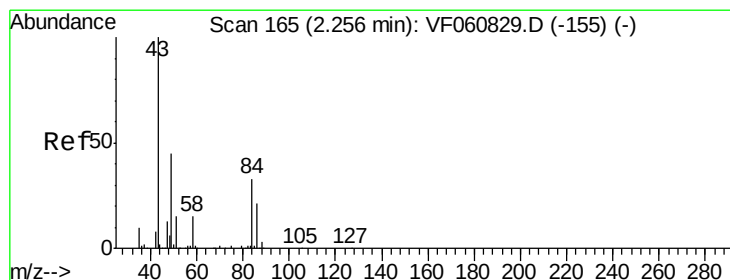
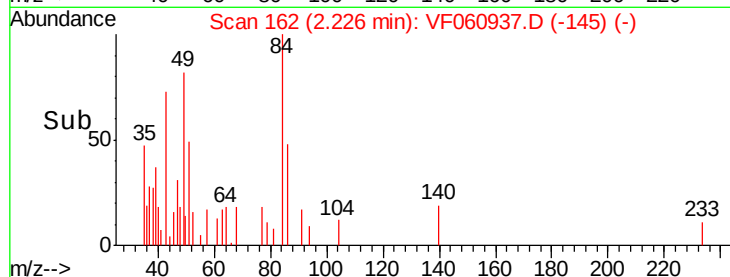
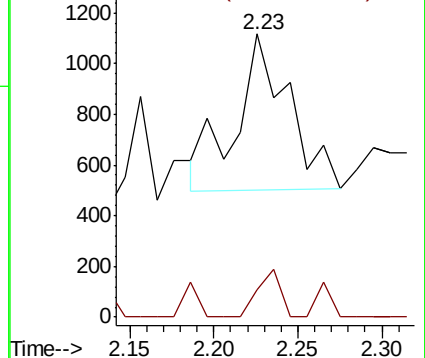
43 100

58 9.5 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#20

Methylene Chloride

Concen: 2.150 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060937.D

Acq: 7 Dec 2018 19:05

Tgt Ion: 84 Resp: 3672

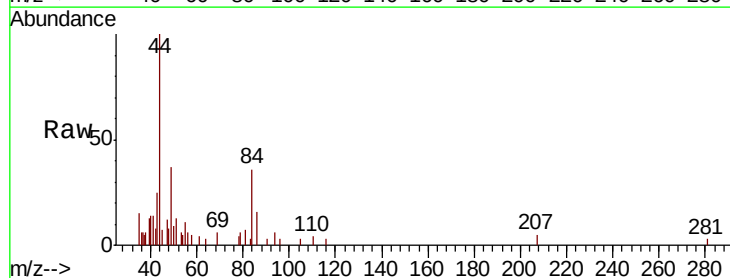
Ion Ratio Lower Upper

84 100

49 103.1 111.3 166.9#

51 37.1 38.0 57.0#

86 45.8 49.8 74.8#

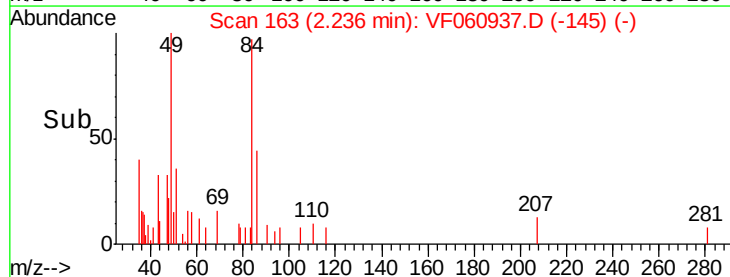
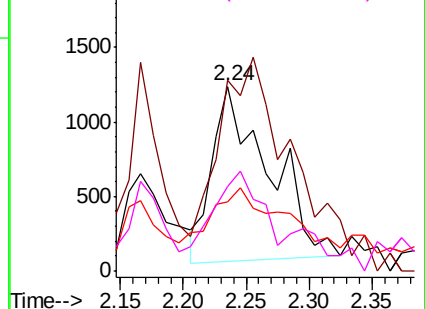


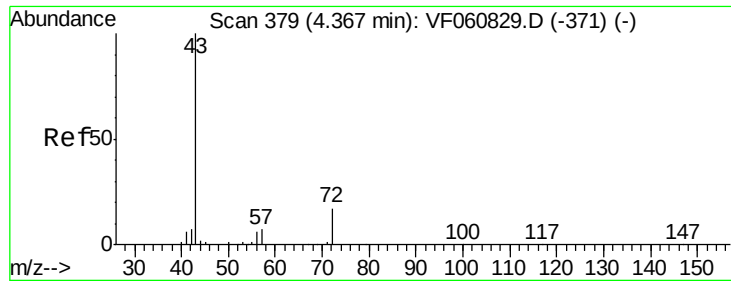
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 1.629 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060937.D

Acq: 7 Dec 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

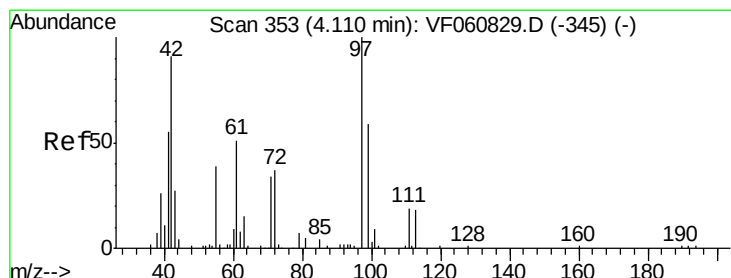
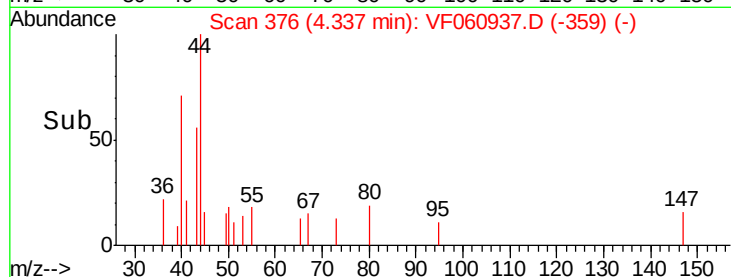
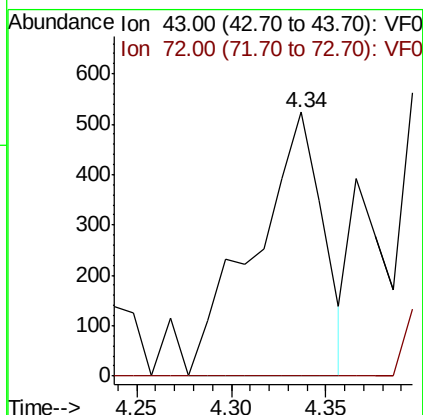
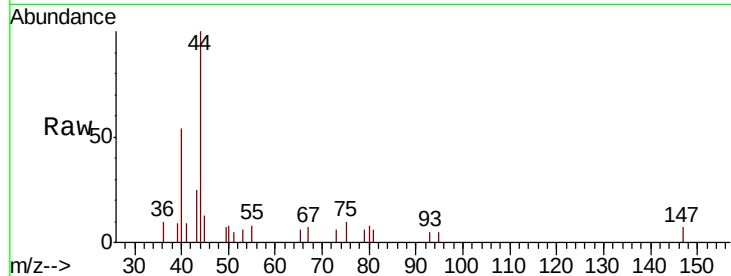
SB-9(0-2)

Tot Ion: 43 Resp: 1312

Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



#29

Tetrahydrofuran

Concen: 2.740 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.04 min

Lab File: VF060937.D

Acq: 7 Dec 2018 19:05

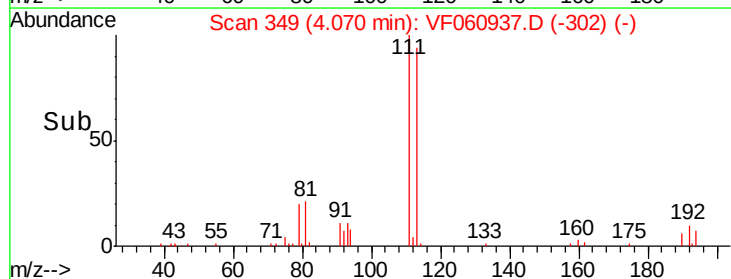
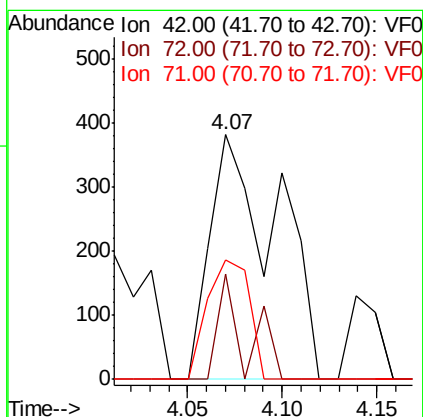
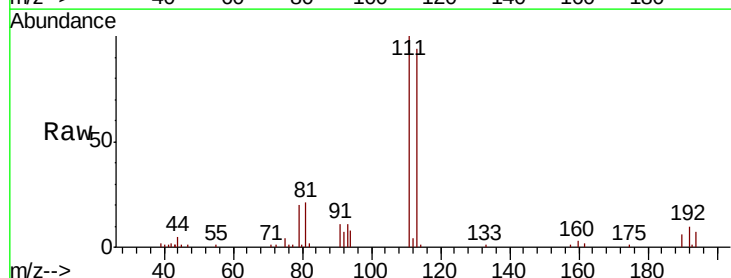
Tgt Ion: 42 Resp: 935

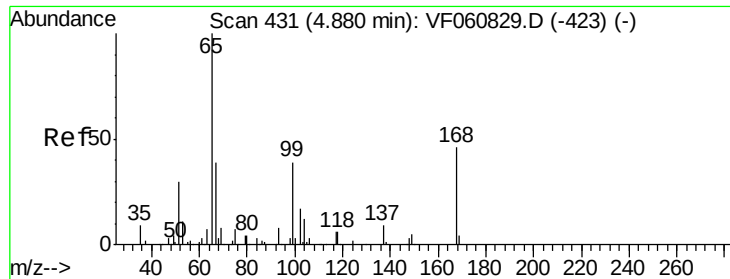
Ion Ratio Lower Upper

42 100

72 17.6 31.9 47.9#

71 30.4 28.7 43.1

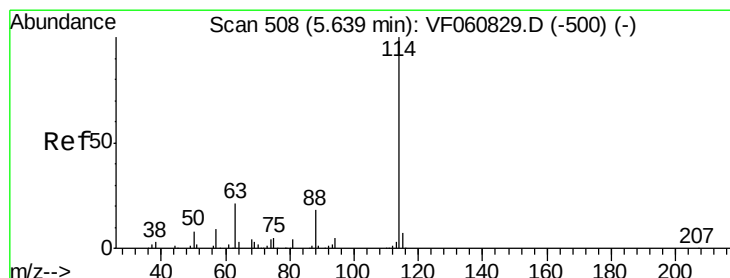
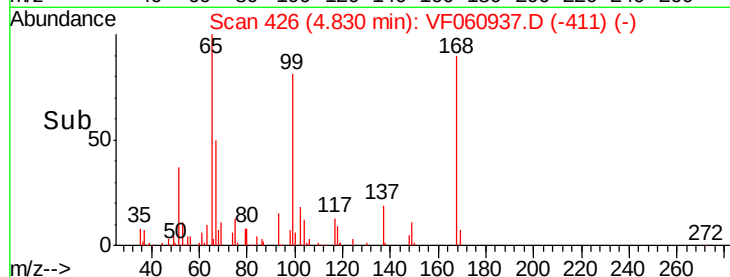
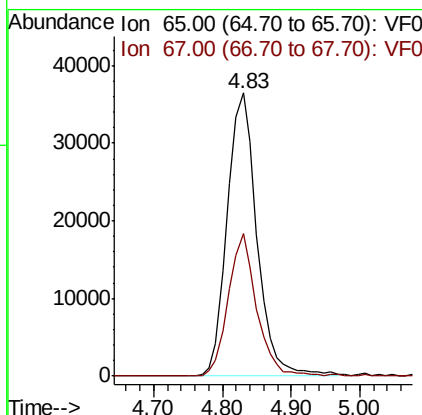
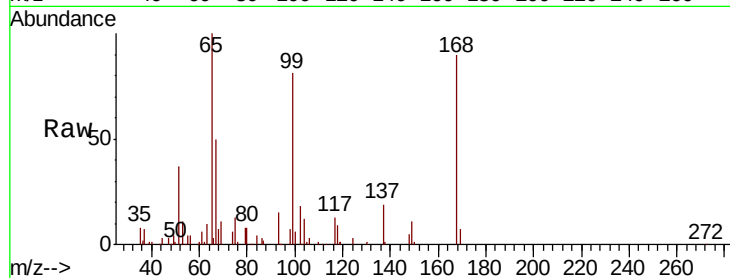




#33
 1,2-Dichloroethane-d4
 Concen: 43.436 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.05 min
 Lab File: VF060937.D
 Acq: 7 Dec 2018 19:05

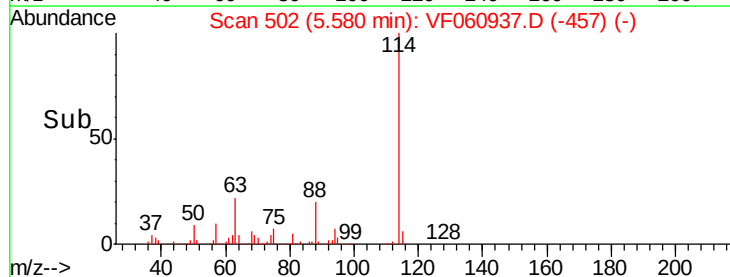
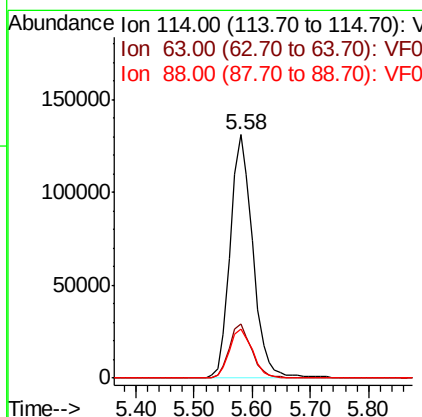
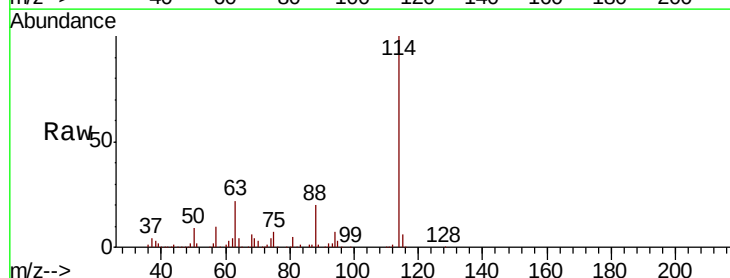
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-9(0-2)

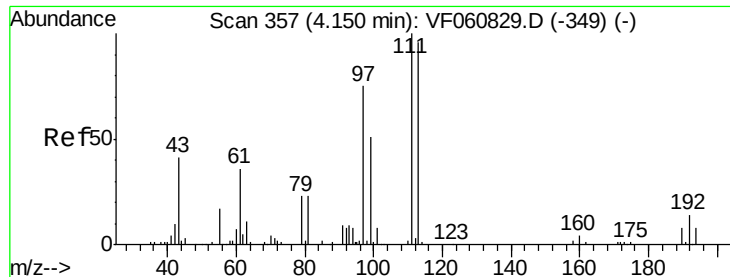
Tot Ion: 65 Resp: 109650
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.06 min
 Lab File: VF060937.D
 Acq: 7 Dec 2018 19:05

Tgt Ion: 114 Resp: 355910
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 41.6
 88 20.1 0.0 36.6





#35

Dibromofluoromethane

Concen: 43.399 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.06 min

Lab File: VF060937.D

Acq: 7 Dec 2018 19:05

Instrument :

MSVOA_F

ClientSampleId :

SB-9(0-2)

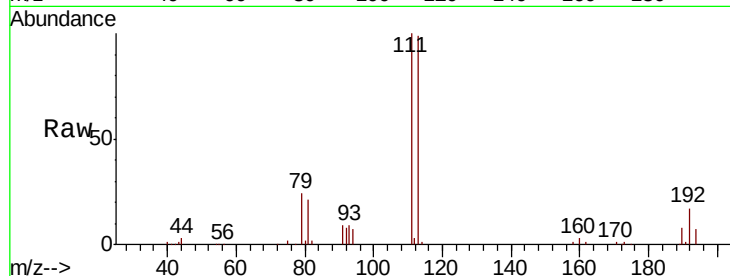
Tot Ion:113 Resp: 122538

Ion Ratio Lower Upper

113 100

111 100.7 83.0 124.6

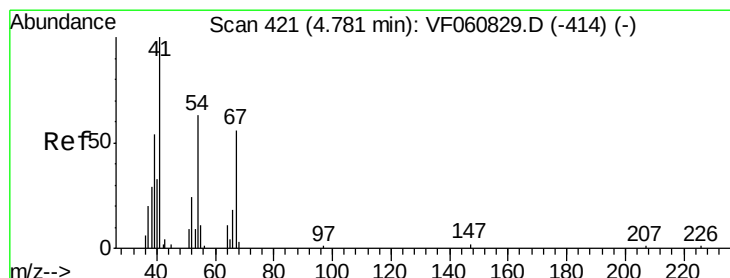
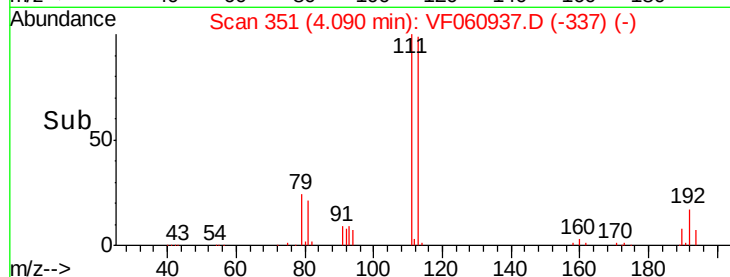
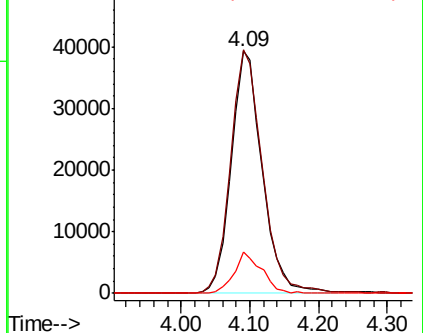
192 17.0 12.3 18.5



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: 4.74 min Scan# 417

Delta R.T. -0.04 min

Lab File: VF060937.D

Acq: 7 Dec 2018 19:05

Tgt Ion: 41 Resp: 491

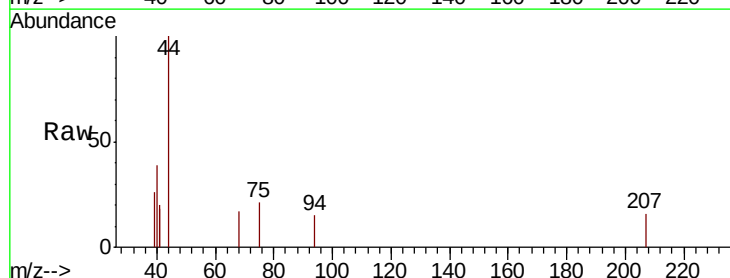
Ion Ratio Lower Upper

41 100

39 66.5 53.0 79.6

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

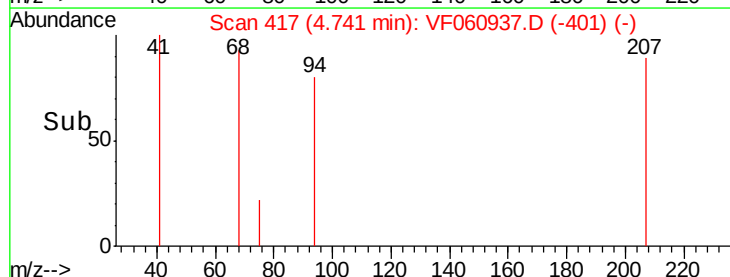
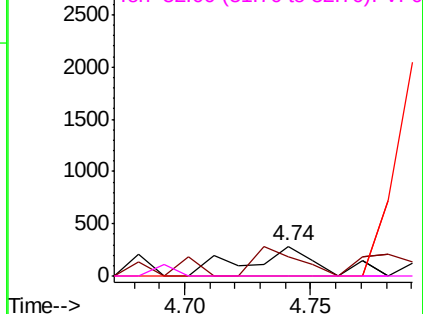


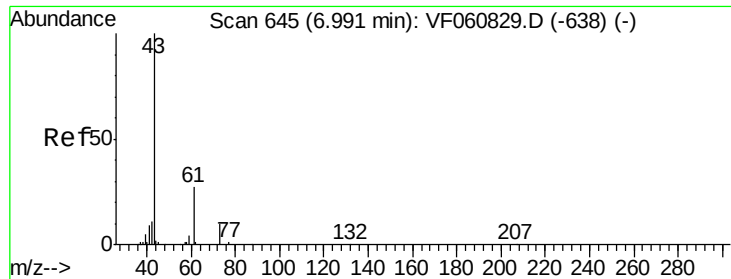
Abundance Ion 41.00 (40.70 to 41.70): VF0

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



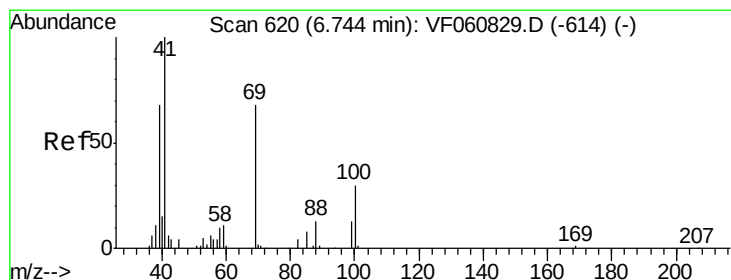
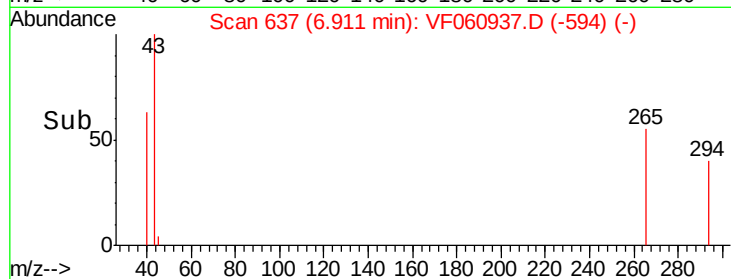
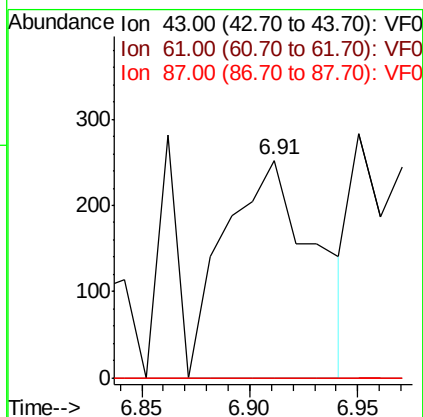
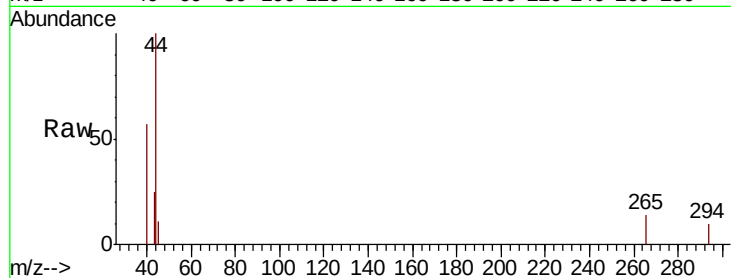


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.91 min Scan# 637
 Delta R.T. -0.08 min
 Lab File: VF060937.D
 Acq: 7 Dec 2018 19:05

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-9(0-2)

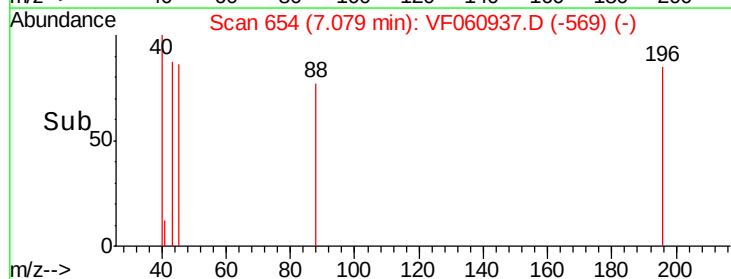
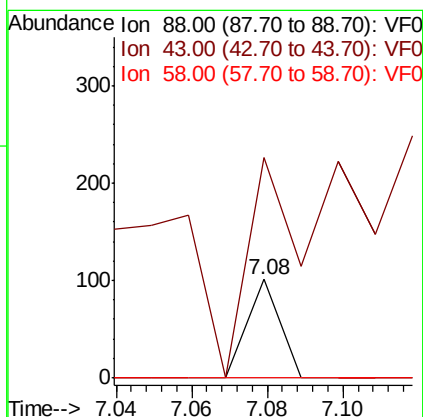
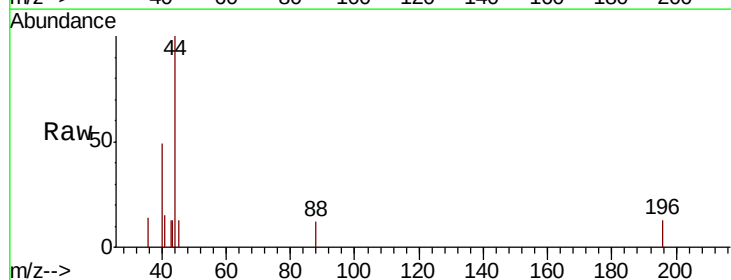
Tot Ion	43	Resp	732
Ion Ratio	Lower	Upper	
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#

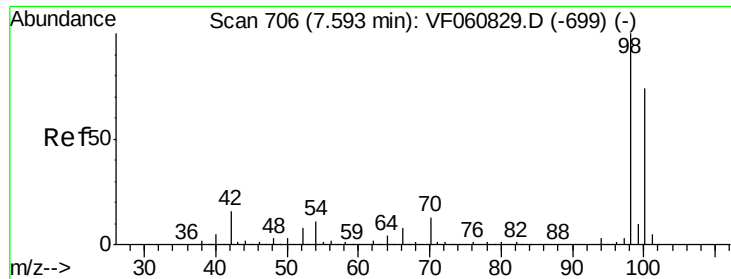


#49

1,4-Dioxane
 Concen: 5.646 ug/l
 RT: 7.08 min Scan# 654
 Delta R.T. 0.33 min
 Lab File: VF060937.D
 Acq: 7 Dec 2018 19:05

Tgt Ion	88	Resp	60
Ion Ratio	Lower	Upper	
88	100		
43	223.8	42.0	63.0#
58	0.0	61.8	92.8#

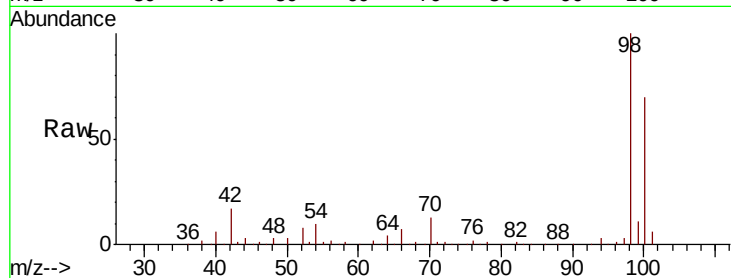




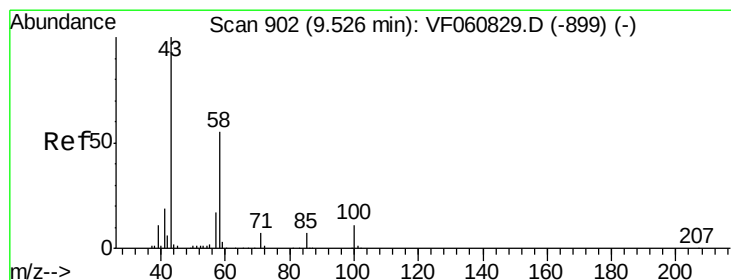
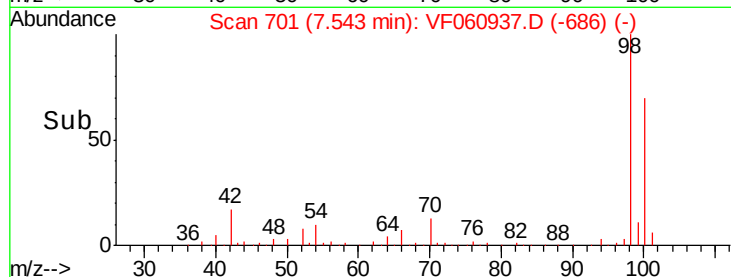
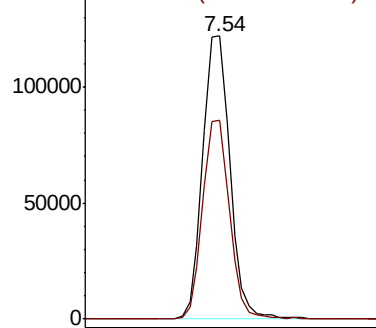
#50
Toluene-d8
Concen: 36.604 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.05 min
Lab File: VF060937.D
Acq: 7 Dec 2018 19:05

Instrument :
MSVOA_F
ClientSampleId :
SB-9(0-2)

Tot Ion: 98 Resp: 304449
Ion Ratio Lower Upper
98 100
100 70.4 59.3 88.9

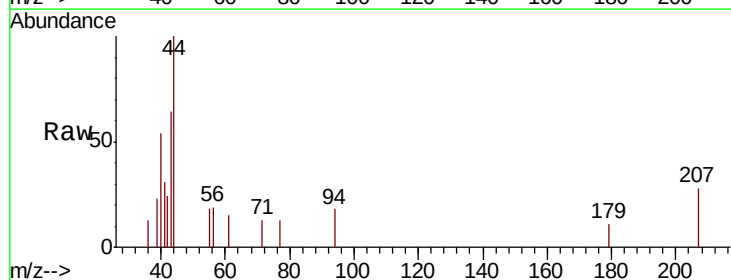


Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0

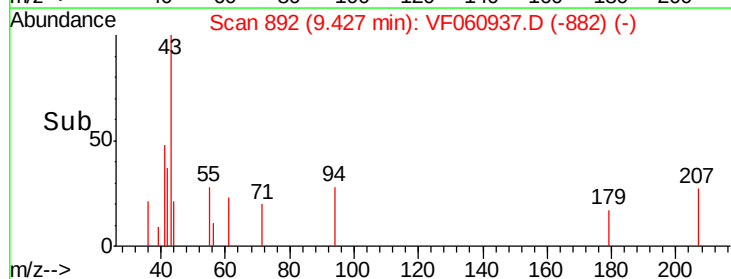
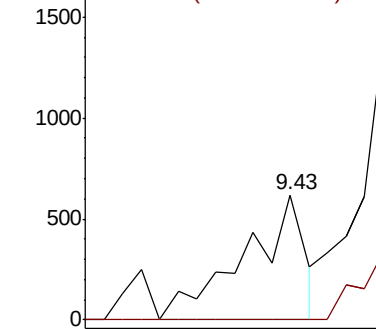


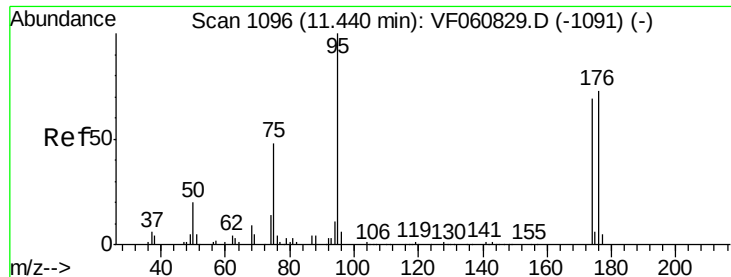
#59
2-Hexanone
Concen: 1.314 ug/l
RT: 9.43 min Scan# 892
Delta R.T. -0.10 min
Lab File: VF060937.D
Acq: 7 Dec 2018 19:05

Tgt Ion: 43 Resp: 1364
Ion Ratio Lower Upper
43 100
58 0.0 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 37.834 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.04 min

Lab File: VF060937.D

Acq: 7 Dec 2018 19:05

Instrument :

MSVOA_F

ClientSampled :

SB-9(0-2)

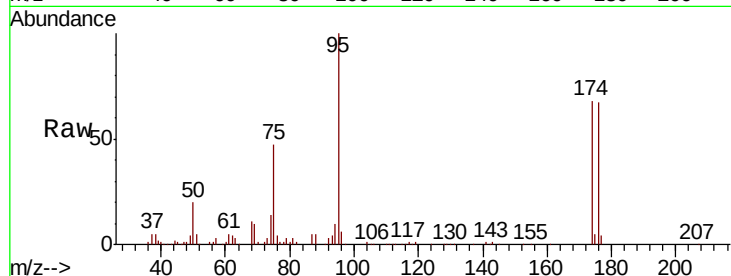
Tot Ion: 95 Resp: 143014

Ion Ratio Lower Upper

95 100

174 67.8 0.0 138.2

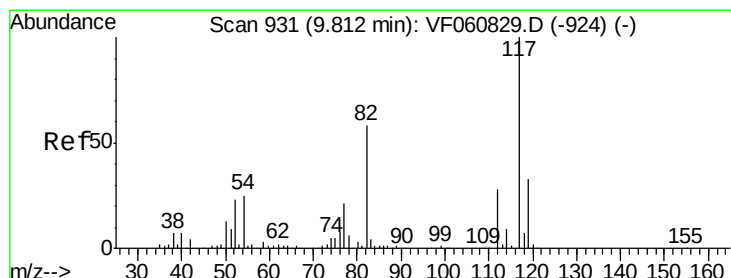
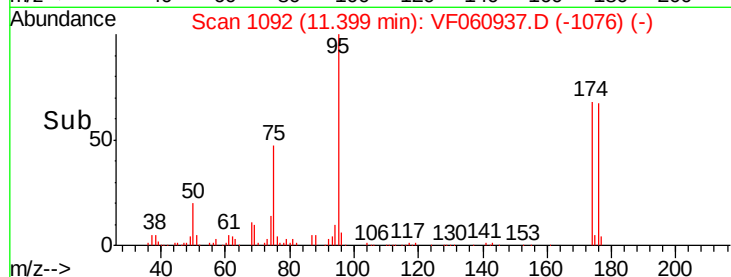
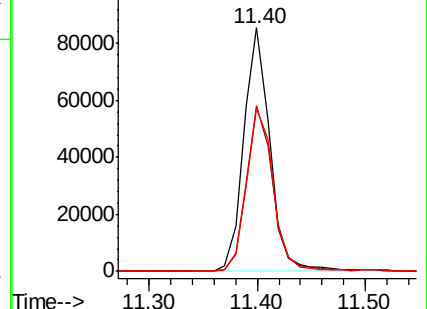
176 67.1 0.0 146.2



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.05 min

Lab File: VF060937.D

Acq: 7 Dec 2018 19:05

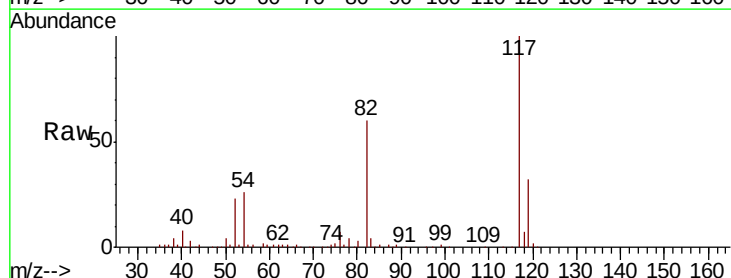
Tgt Ion: 117 Resp: 304769

Ion Ratio Lower Upper

117 100

82 60.4 46.6 69.8

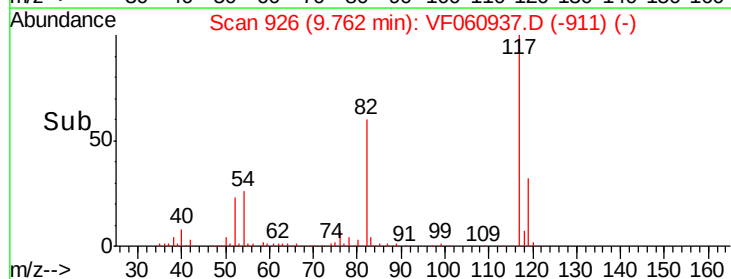
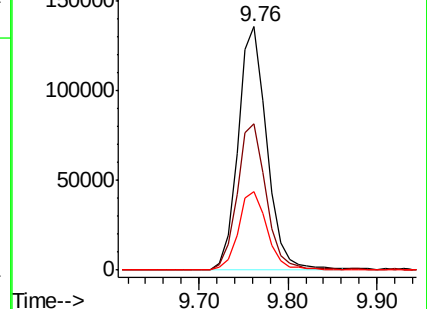
119 32.0 26.4 39.6

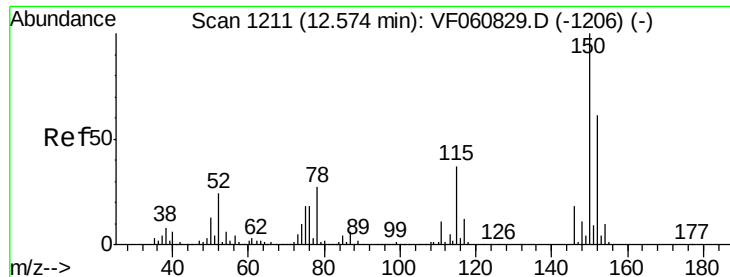


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



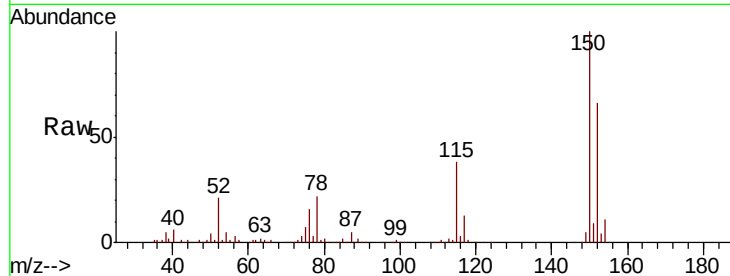


#72

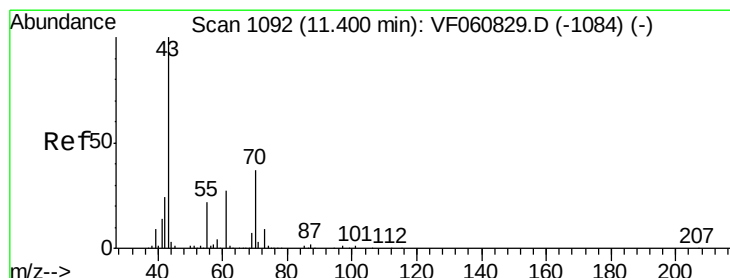
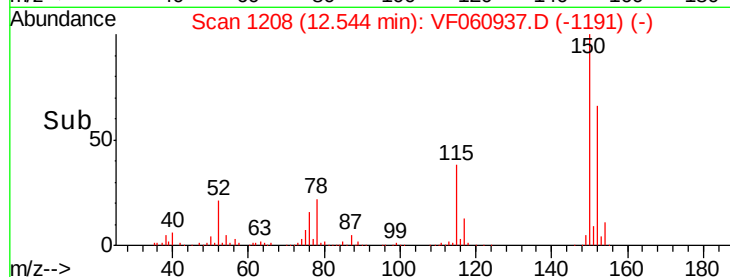
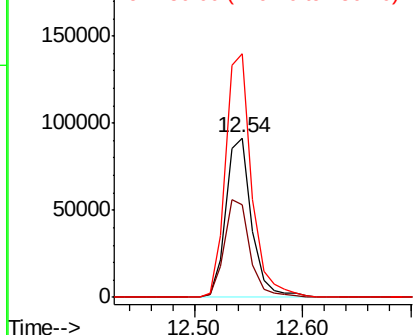
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF060937.D
Acq: 7 Dec 2018 19:05

Instrument :
MSVOA_F
ClientSampleId :
SB-9(0-2)

Tot Ion:152 Resp: 153551
Ion Ratio Lower Upper
152 100
115 58.2 30.1 90.5
150 152.6 0.0 327.6



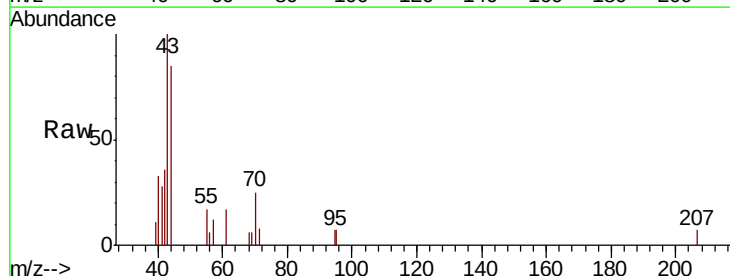
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



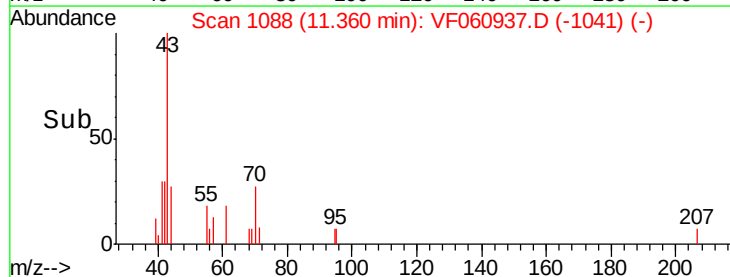
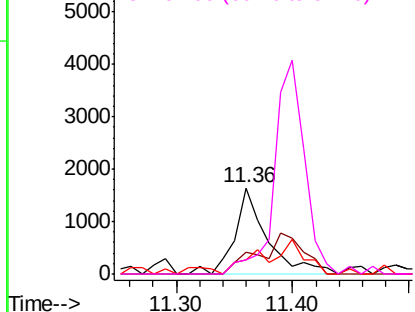
#74

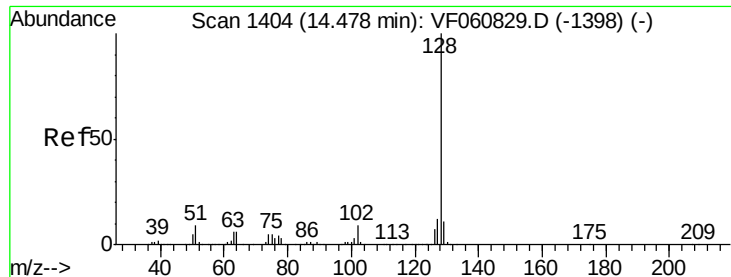
N-amil acetate
Concen: 1.119 ug/l
RT: 11.36 min Scan# 1088
Delta R.T. -0.04 min
Lab File: VF060937.D
Acq: 7 Dec 2018 19:05

Tgt Ion: 43 Resp: 3136
Ion Ratio Lower Upper
43 100
70 25.4 29.6 44.4#
55 16.9 17.2 25.8#
61 16.7 21.8 32.6#



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





#95
 Naphthalene
 Concen: Below Cal
 RT: 14.45 min Scan# 1401
 Delta R.T. -0.03 min
 Lab File: VF060937.D
 Acq: 7 Dec 2018 19:05

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-9(0-2)

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.3	9.9	14.9#
129	8.2	9.1	13.7#

