

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121718\
 Data File : VF061053.D
 Acq On : 17 Dec 2018 21:17
 Operator : VA/AP
 Sample : J6391-16RE
 Misc : 3.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 18 03:10:25 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	4.89	168	148902	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	241912	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.79	117	167087	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	42751	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	109532	62.44	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	124.88%	
35) Dibromofluoromethane	4.13	113	111335	58.01	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	116.02%	
50) Toluene-d8	7.57	98	235044	41.58	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	83.16%	
62) 4-Bromofluorobenzene	11.43	95	64835	25.23	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	50.46%	

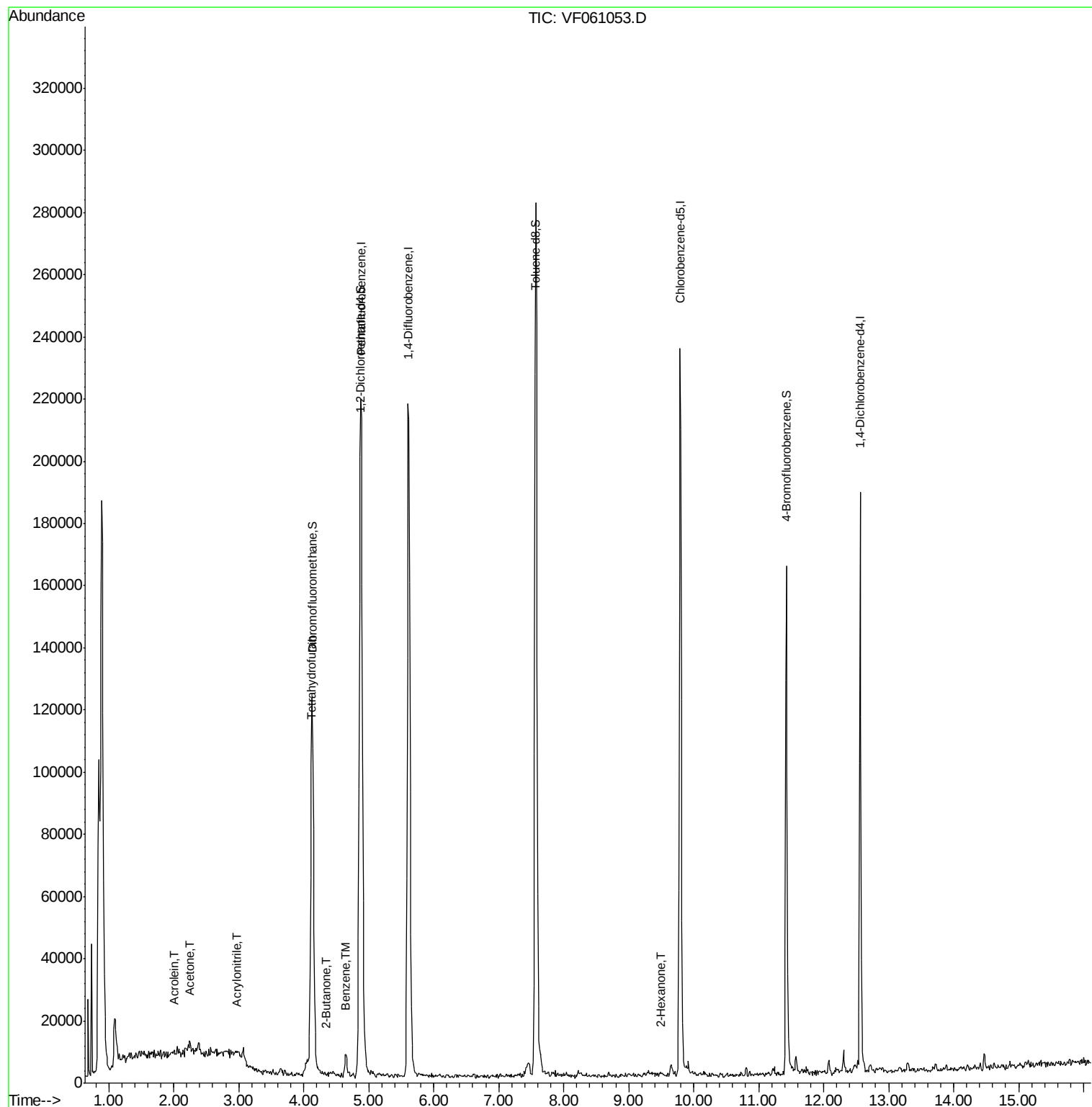
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.00	56	163	2.393	ug/l #	1
15) Acrylonitrile	2.96	53	1039	6.445	ug/l #	45
16) Acetone	2.25	43	2515	7.775	ug/l #	91
25) 2-Butanone	4.35	43	1178	2.105	ug/l #	57
29) Tetrahydrofuran	4.11	42	384	1.619	ug/l #	37
40) Benzene	4.65	78	7280	1.228	ug/l #	87
41) Methacrylonitrile	4.75	41	672	Below Cal	#	23
43) Isopropyl Acetate	6.96	43	137	Below Cal	#	49
59) 2-Hexanone	9.50	43	1099	1.558	ug/l #	27
95) Naphthalene	14.47	128	2254	Below Cal	#	82

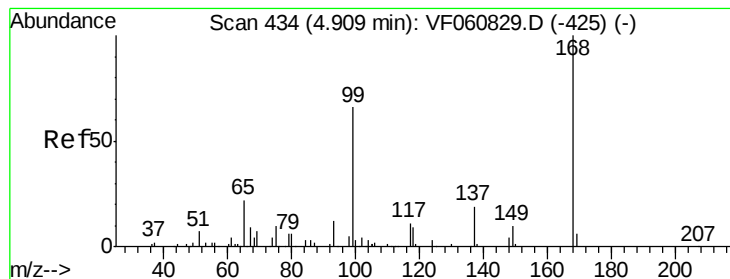
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
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: 4.89 min Scan# 432

Delta R.T. -0.02 min

Lab File: VF061053.D

Acq: 17 Dec 2018 21:17

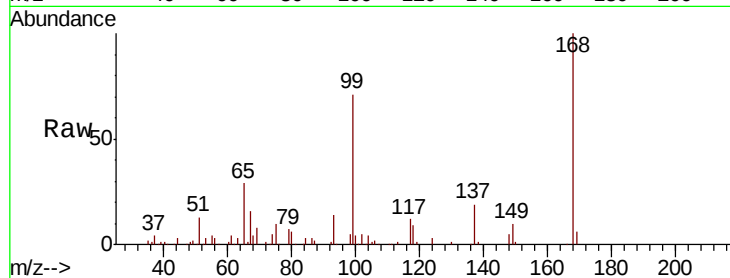
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 148902

Ion Ratio Lower Upper

168 100

99 70.6 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

60000

50000

40000

30000

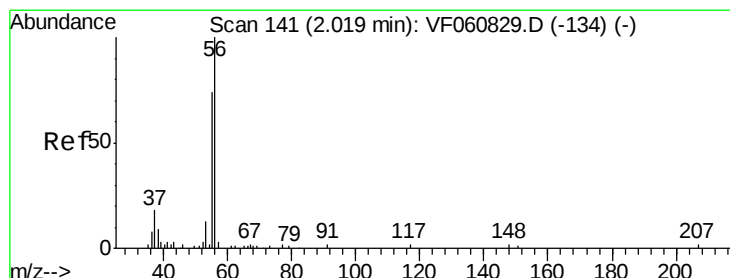
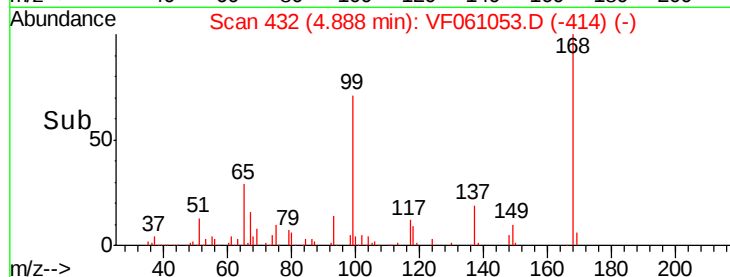
20000

10000

0

Time-->

4.80 4.90 5.00



#13

Acrolein

Concen: 2.393 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF061053.D

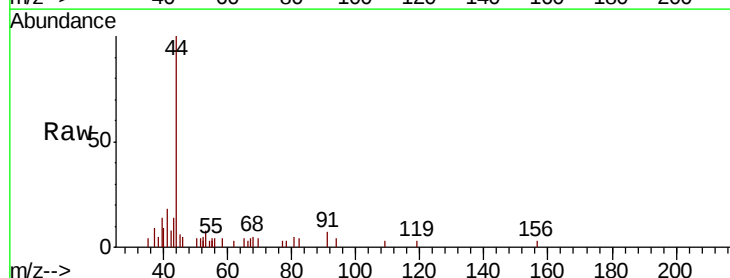
Acq: 17 Dec 2018 21:17

Tgt Ion: 56 Resp: 163

Ion Ratio Lower Upper

56 100

55 182.1 61.2 91.8#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

400

300

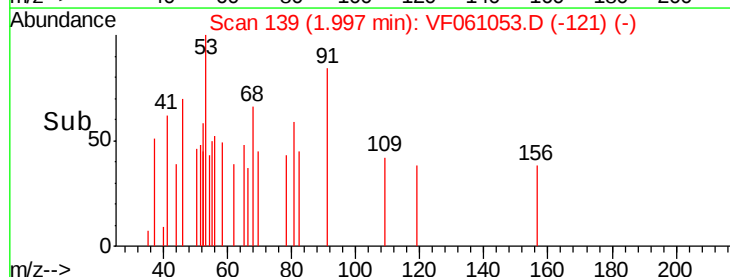
200

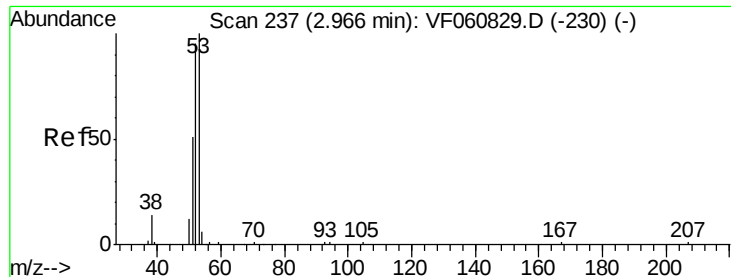
100

0

Time-->

1.98 2.00 2.02





#15

Acrylonitrile

Concen: 6.445 ug/l

RT: 2.96 min Scan# 237

Delta R.T. -0.00 min

Lab File: VF061053.D

Acq: 17 Dec 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

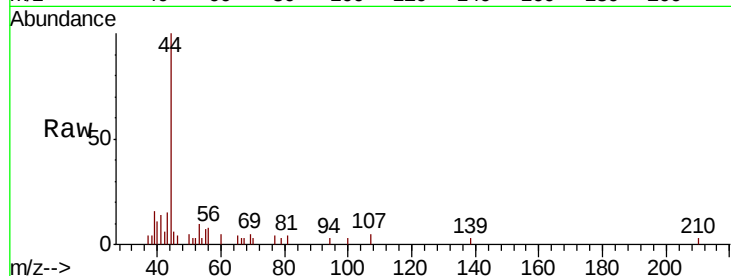
Tot Ion: 53 Resp: 1039

Ion Ratio Lower Upper

53 100

52 29.9 76.5 114.7#

51 29.9 40.7 61.1#



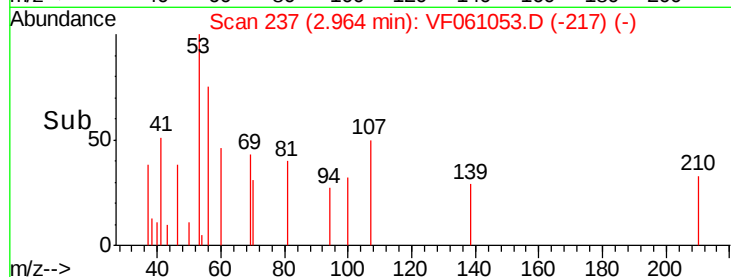
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

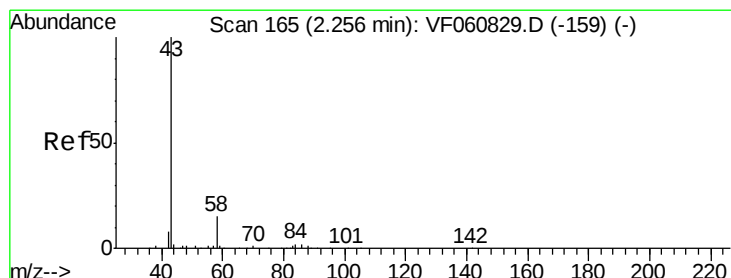
Ion 51.00 (50.70 to 51.70): VF0

2.96

Time-->



Time-->



#16

Acetone

Concen: 7.775 ug/l

RT: 2.25 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF061053.D

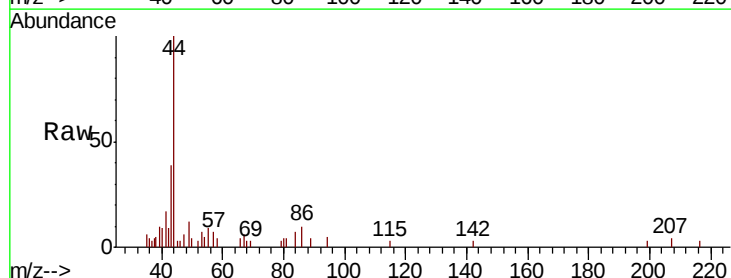
Acq: 17 Dec 2018 21:17

Tgt Ion: 43 Resp: 2515

Ion Ratio Lower Upper

43 100

58 10.7 11.4 17.2#

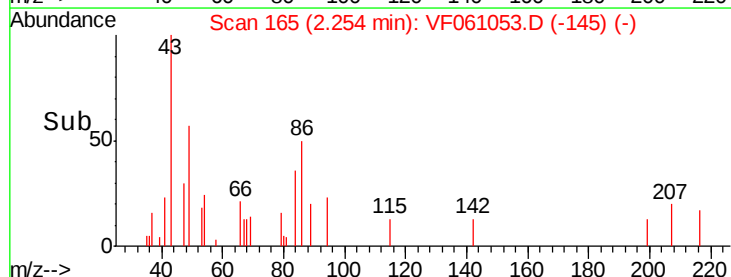


Abundance Ion 43.00 (42.70 to 43.70): VF0

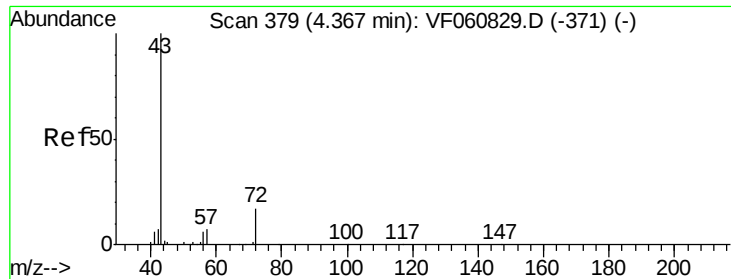
Ion 58.00 (57.70 to 58.70): VF0

2.25

Time-->



Time-->



#25

2-Butanone

Concen: 2.105 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.02 min

Lab File: VF061053.D

Acq: 17 Dec 2018 21:17

Instrument :

MSVOA_F

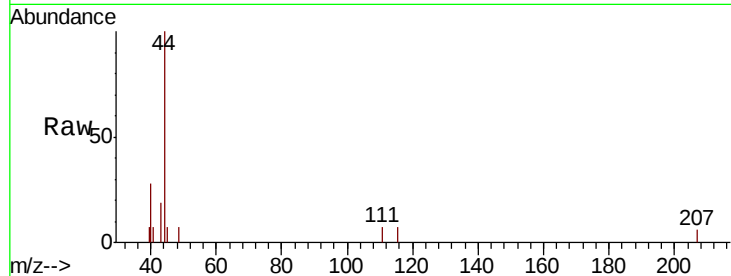
ClientSampleId :

Tot Ion: 43 Resp: 1178

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

300

200

100

0

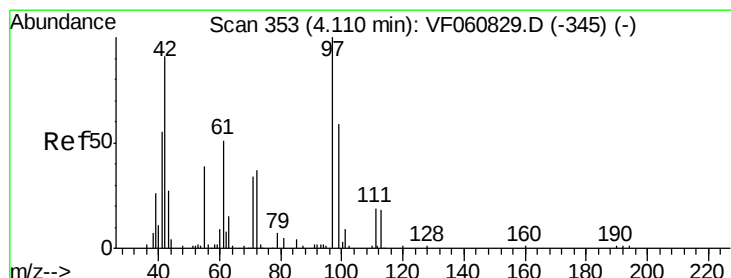
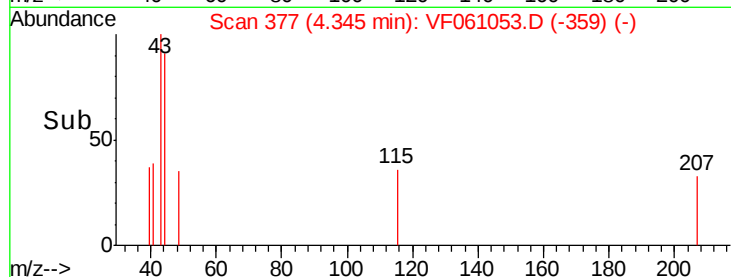
4.25

4.30

4.35

4.40

Time-->



#29

Tetrahydrofuran

Concen: 1.619 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF061053.D

Acq: 17 Dec 2018 21:17

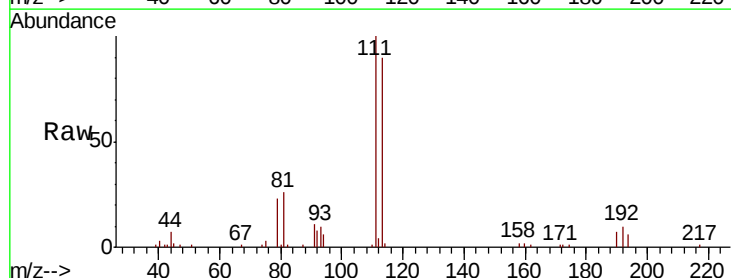
Tgt Ion: 42 Resp: 384

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

300

250

200

150

100

50

0

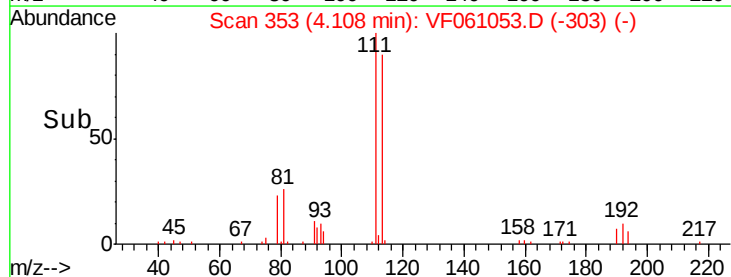
4.08

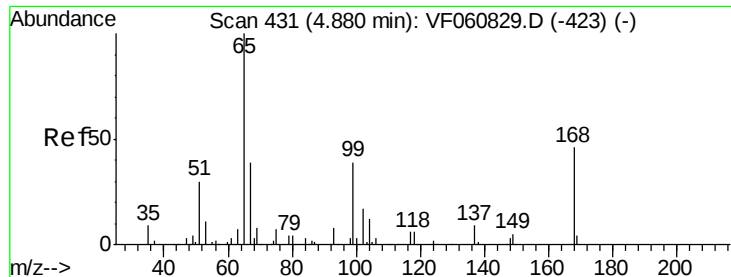
4.10

4.12

4.14

Time-->





#33

1,2-Dichloroethane-d4

Concen: 62.443 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061053.D

Acq: 17 Dec 2018 21:17

Instrument :

MSVOA_F

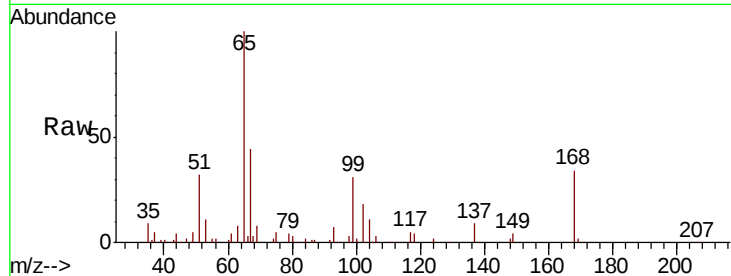
ClientSampleId :

Tot Ion: 65 Resp: 109532

Ion Ratio Lower Upper

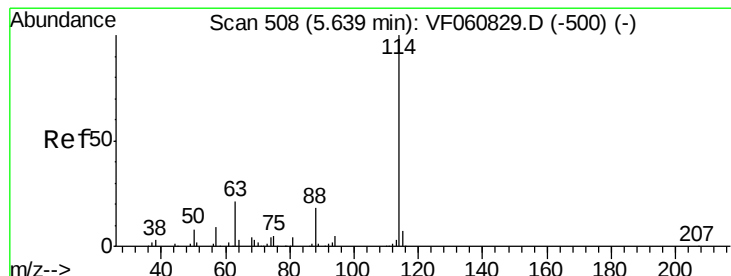
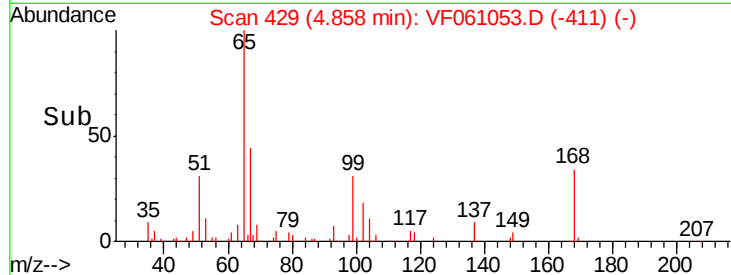
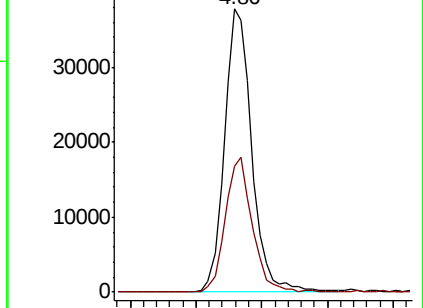
65 100

67 44.4 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: 5.62 min Scan# 506

Delta R.T. -0.02 min

Lab File: VF061053.D

Acq: 17 Dec 2018 21:17

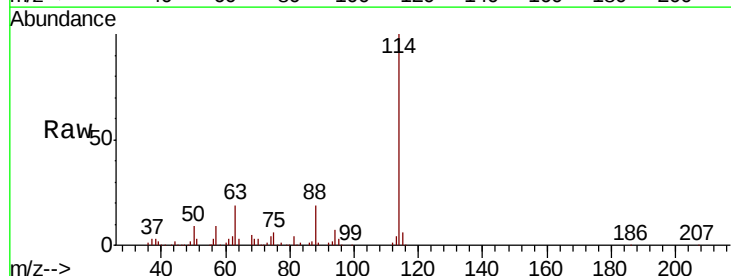
Tgt Ion: 114 Resp: 241912

Ion Ratio Lower Upper

114 100

63 18.8 0.0 41.6

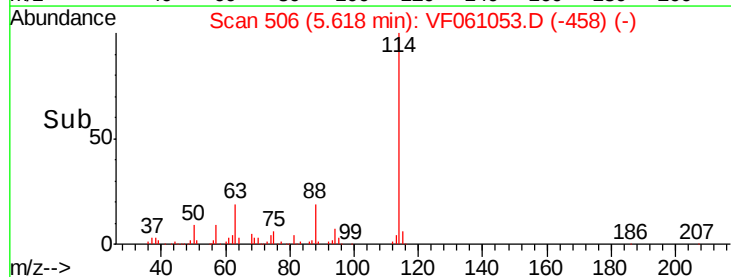
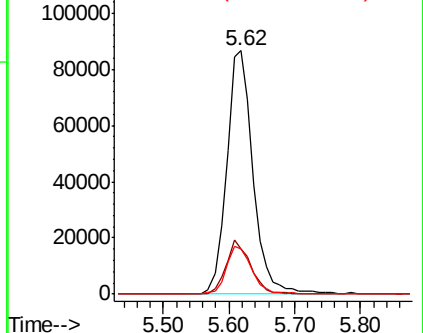
88 18.6 0.0 36.6

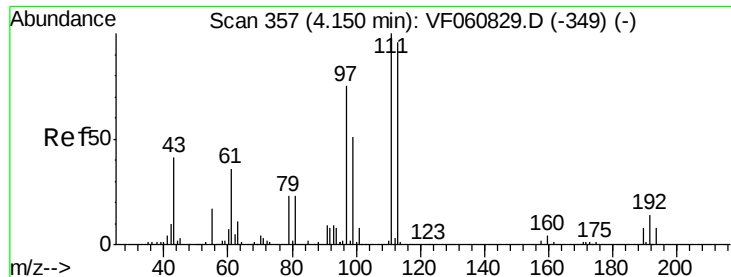


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

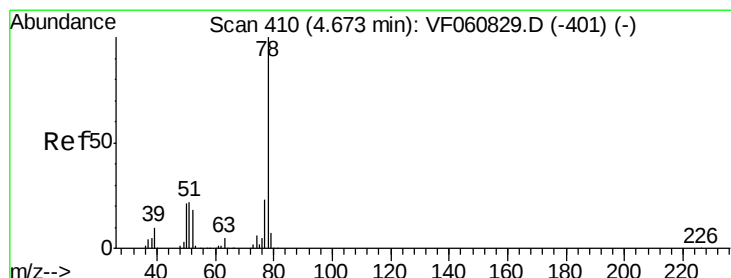
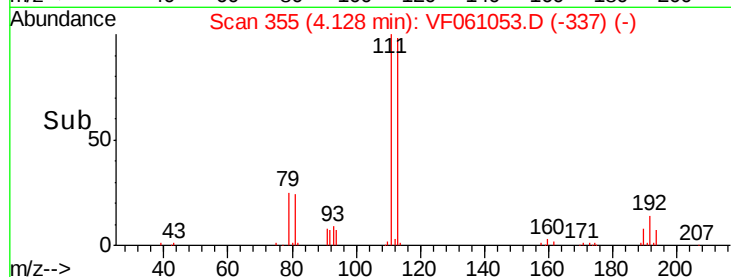
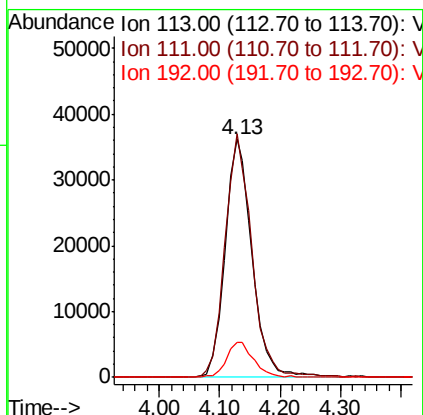
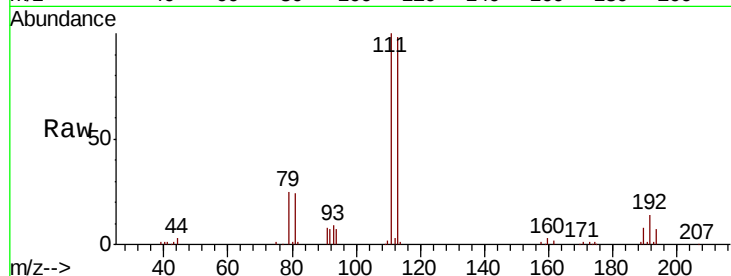




#35
Dibromofluoromethane
Concen: 58.013 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.02 min
Lab File: VF061053.D
Acq: 17 Dec 2018 21:17

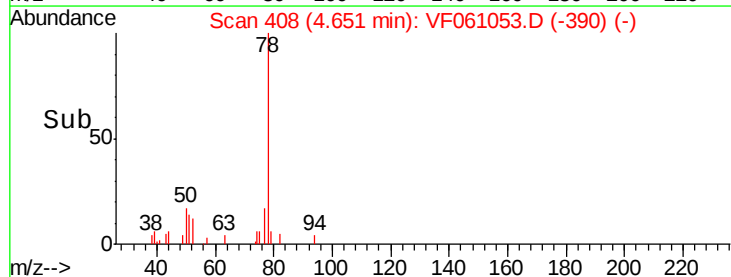
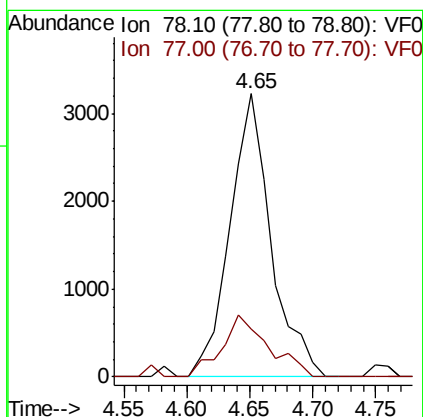
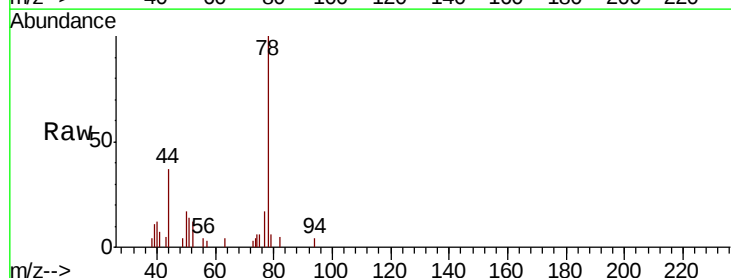
Instrument :
MSVOA_F
ClientSampleId :

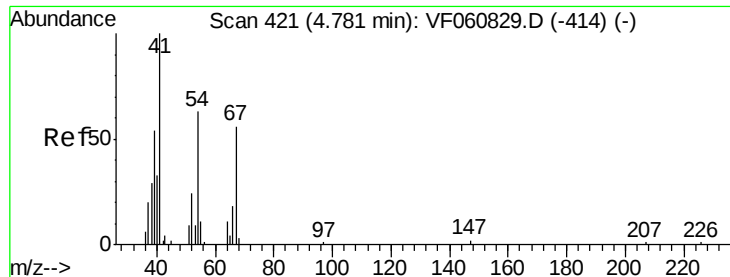
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.0	124.6
192	14.6	12.3	18.5



#40
Benzene
Concen: 1.228 ug/l
RT: 4.65 min Scan# 408
Delta R.T. -0.02 min
Lab File: VF061053.D
Acq: 17 Dec 2018 21:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	16.9	18.7	28.1#

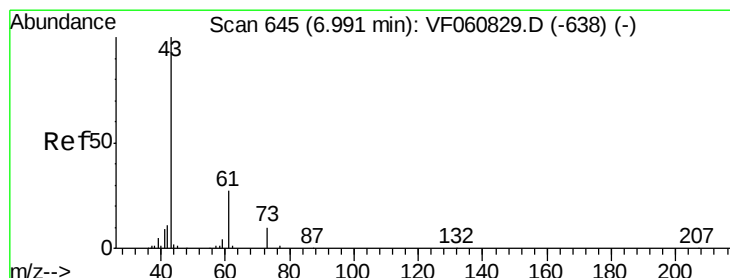
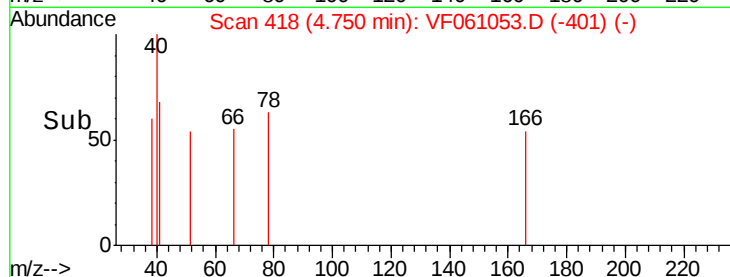
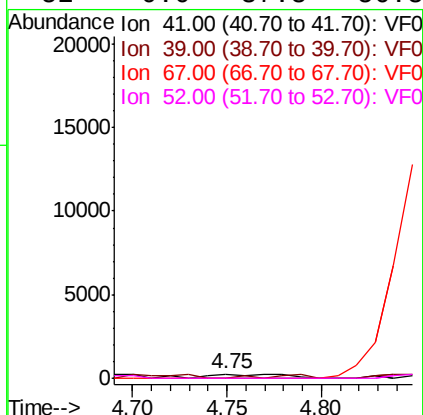
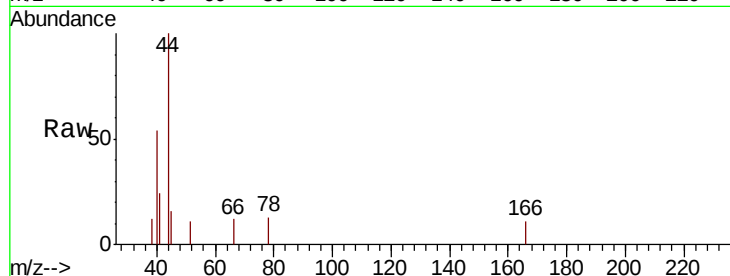




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.75 min Scan# 418
Delta R.T. -0.03 min
Lab File: VF061053.D
Acq: 17 Dec 2018 21:17

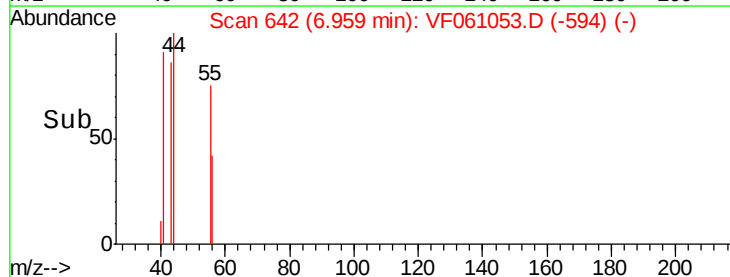
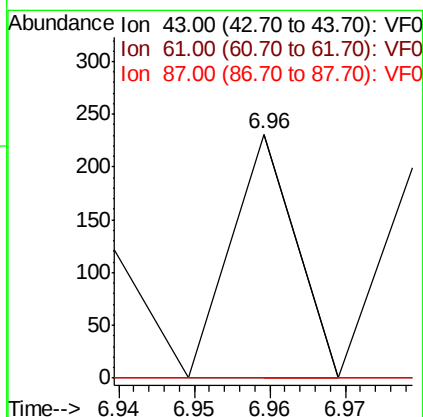
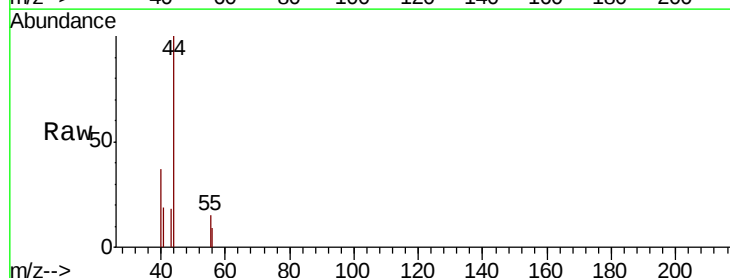
Instrument :
MSVOA_F
ClientSampleId :

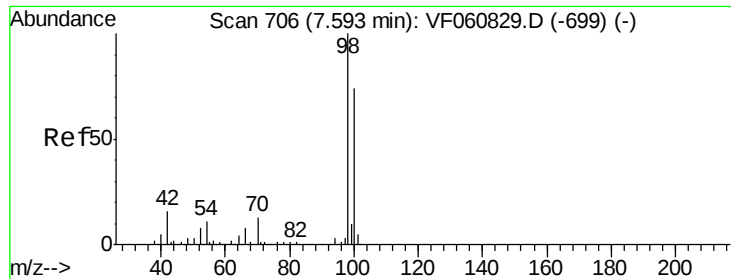
Tot Ion:	41	Resp:	672
Ion	Ratio	Lower	Upper
41	100		
39	0.0	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.96 min Scan# 642
Delta R.T. -0.03 min
Lab File: VF061053.D
Acq: 17 Dec 2018 21:17

Tgt Ion:	43	Resp:	137
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#





#50

Toluene-d8

Concen: 41.577 ug/l

RT: 7.57 min Scan# 704

Delta R.T. -0.02 min

Lab File: VF061053.D

Acq: 17 Dec 2018 21:17

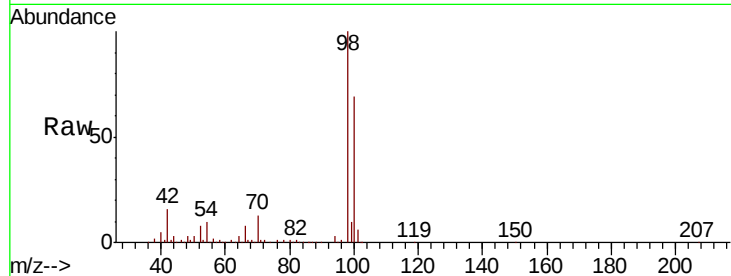
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 235044

Ion Ratio Lower Upper

98 100

100 68.9 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.57

100000

80000

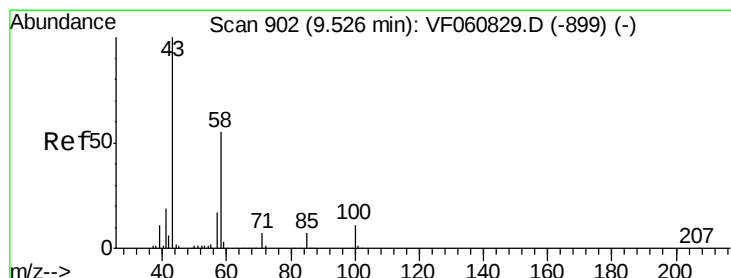
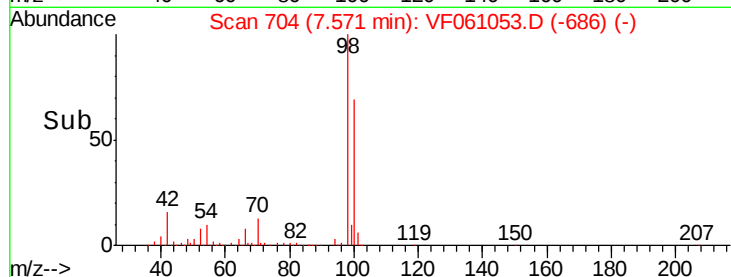
60000

40000

20000

0

Time--> 7.40 7.50 7.60 7.70



#59

2-Hexanone

Concen: 1.558 ug/l

RT: 9.50 min Scan# 900

Delta R.T. -0.02 min

Lab File: VF061053.D

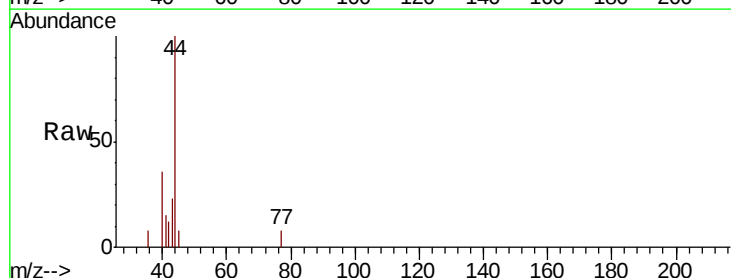
Acq: 17 Dec 2018 21:17

Tgt Ion: 43 Resp: 1099

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

9.50

400

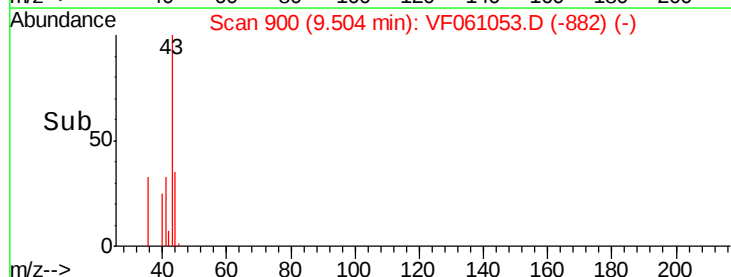
300

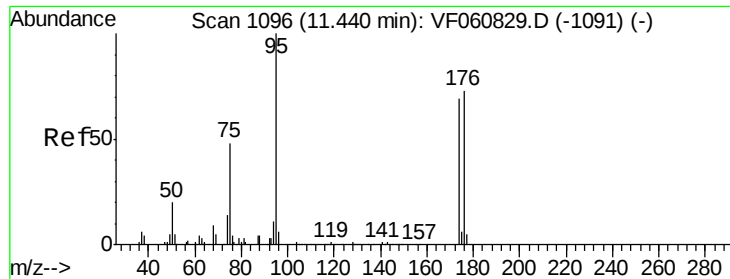
200

100

0

Time--> 9.45 9.50 9.55

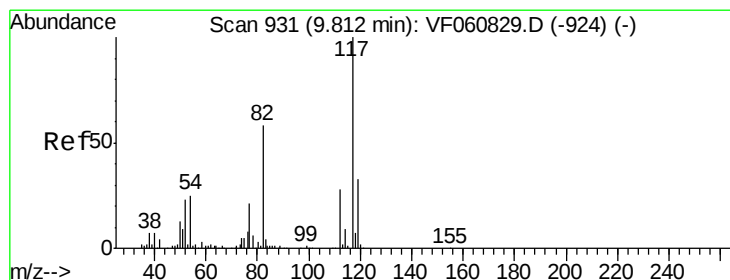
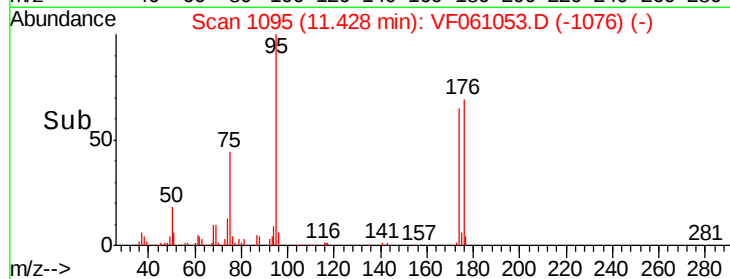
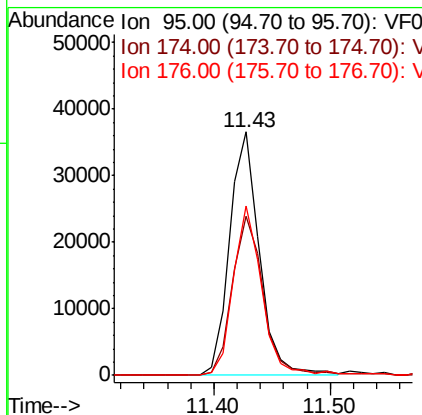
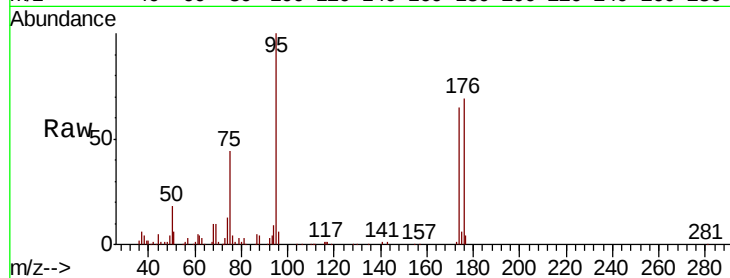




#62
4-Bromofluorobenzene
Concen: 25.234 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VF061053.D
Acq: 17 Dec 2018 21:17

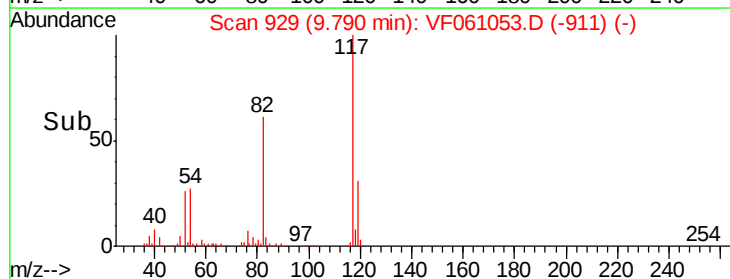
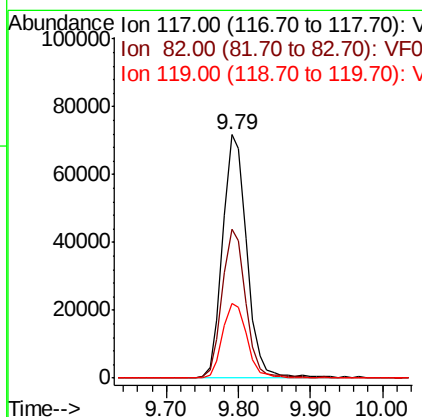
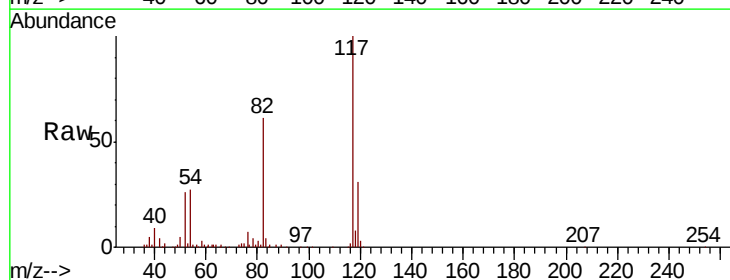
Instrument :
MSVOA_F
ClientSampled :

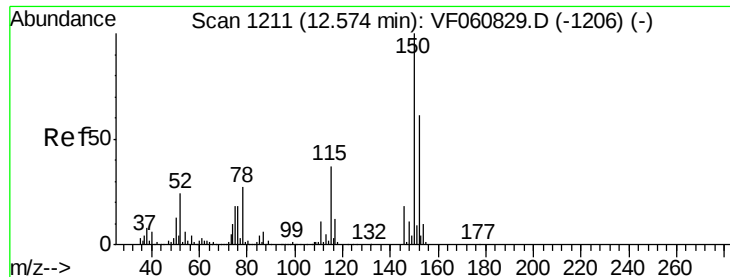
Tot Ion	Ratio	Lower	Upper
95	100		
174	65.5	0.0	138.2
176	69.4	0.0	146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF061053.D
Acq: 17 Dec 2018 21:17

Tgt Ion	Ratio	Lower	Upper
117	100		
82	61.1	46.6	69.8
119	30.9	26.4	39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF061053.D

Acq: 17 Dec 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

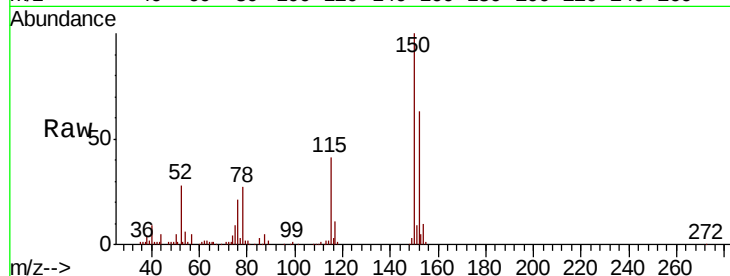
Tot Ion:152 Resp: 42751

Ion Ratio Lower Upper

152 100

115 64.3 30.1 90.5

150 158.6 0.0 327.6

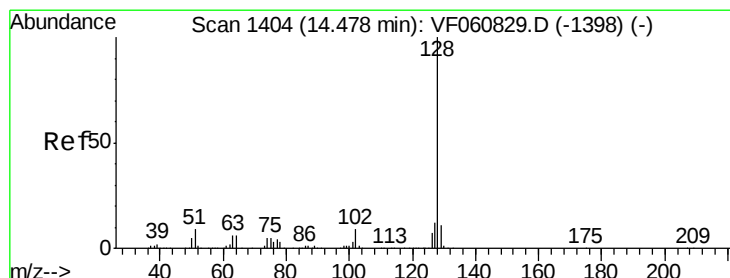
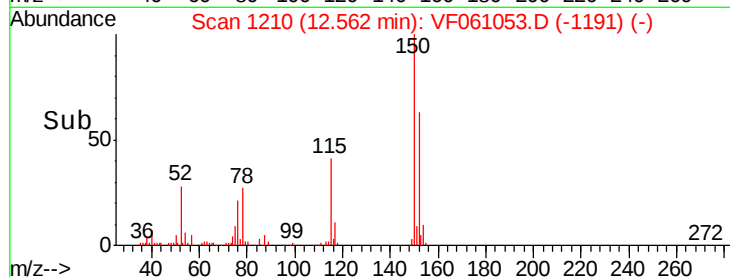
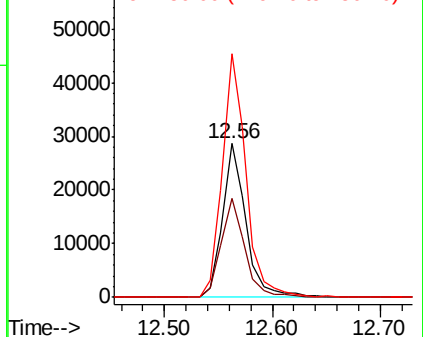


Abundance

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



#95

Naphthalene

Concen: Below Cal

RT: 14.47 min Scan# 1403

Delta R.T. -0.01 min

Lab File: VF061053.D

Acq: 17 Dec 2018 21:17

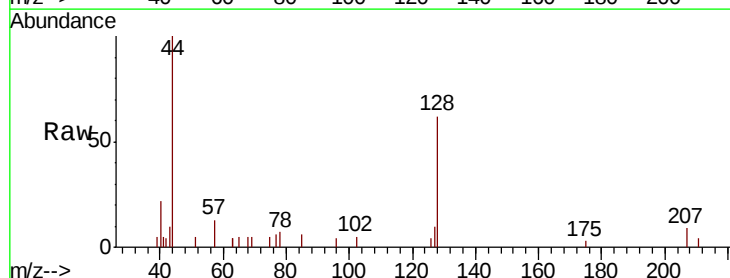
Tgt Ion:128 Resp: 2254

Ion Ratio Lower Upper

128 100

127 15.5 9.9 14.9#

129 0.0 9.1 13.7#



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

