

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120618\
 Data File : VF060920.D
 Acq On : 6 Dec 2018 16:37
 Operator : VA/AP
 Sample : J6248-04
 Misc : 4.84g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 06 17:01:53 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	4.87	168	192152	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	316603	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	302047	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	165563	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	98597	43.56	ug/l	-0.04
Spiked Amount			Recovery	=	87.12%	
35) Dibromofluoromethane	4.11	113	109654	43.66	ug/l	-0.04
Spiked Amount			Recovery	=	87.32%	
50) Toluene-d8	7.55	98	255187	34.49	ug/l	-0.04
Spiked Amount			Recovery	=	68.98%	
62) 4-Bromofluorobenzene	11.41	95	127762	37.99	ug/l	-0.03
Spiked Amount			Recovery	=	75.98%	

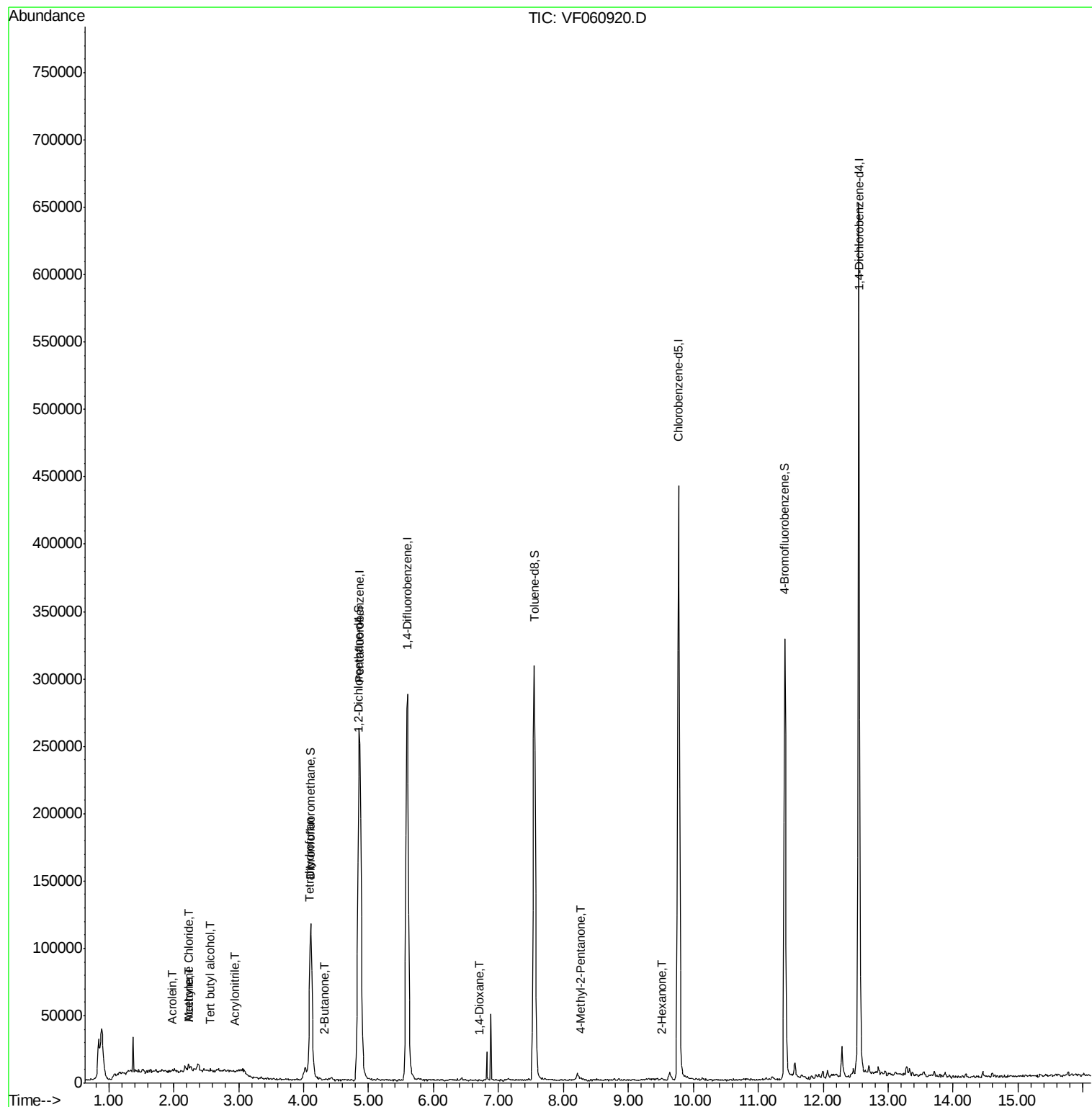
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	136	1.466	ug/l #	1
13) Acrolein	1.99	56	323	3.674	ug/l #	71
15) Acrylonitrile	2.94	53	374	1.798	ug/l #	11
16) Acetone	2.24	43	1513	3.625	ug/l	95
18) Methyl Acetate	2.32	43	327	Below Cal	#	61
20) Methylene Chloride	2.24	84	2767	1.807	ug/l #	68
25) 2-Butanone	4.32	43	798	1.105	ug/l #	57
29) Tetrahydrofuran	4.09	42	560	1.830	ug/l #	46
41) Methacrylonitrile	4.74	41	166	Below Cal	#	40
43) Isopropyl Acetate	6.93	43	365	Below Cal	#	49
49) 1,4-Dioxane	6.71	88	75	7.933	ug/l #	19
51) 4-Methyl-2-Pentanone	8.26	43	1897	1.442	ug/l	95
59) 2-Hexanone	9.50	43	1446	1.566	ug/l	75
95) Naphthalene	14.46	128	1897	Below Cal	#	83

(#) = 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: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060920.D

Acq: 6 Dec 2018 16:37

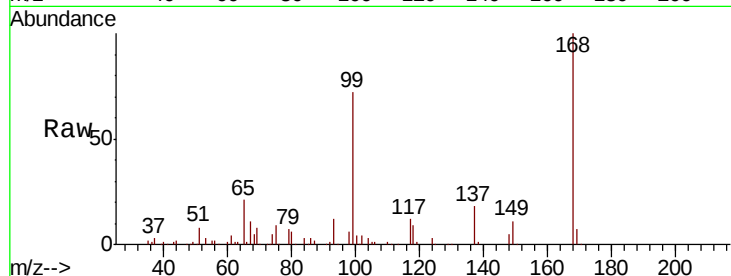
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 192152

Ion Ratio Lower Upper

168 100

99 71.5 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

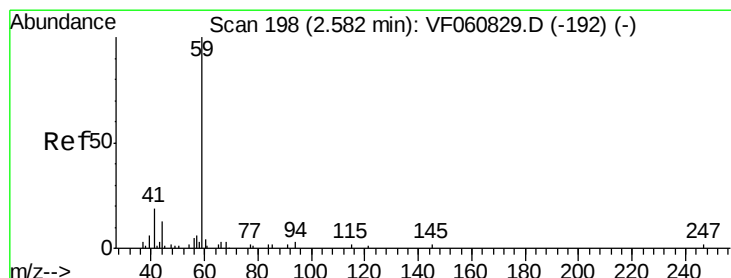
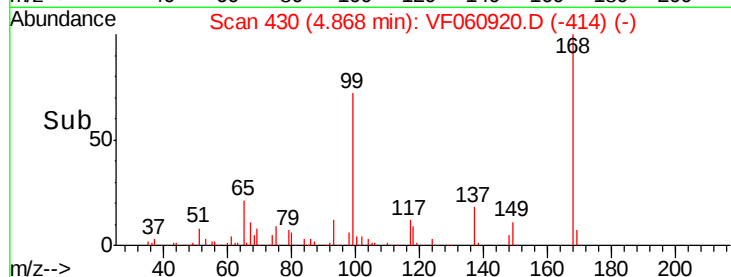
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.466 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF060920.D

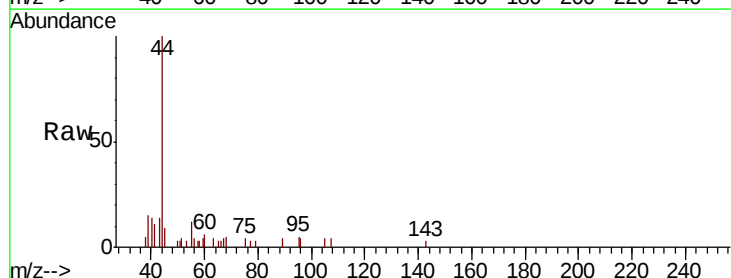
Acq: 6 Dec 2018 16:37

Tgt Ion: 59 Resp: 136

Ion Ratio Lower Upper

59 100

57 83.1 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

400

300

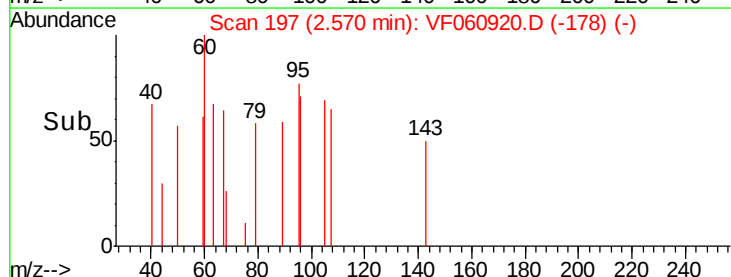
200

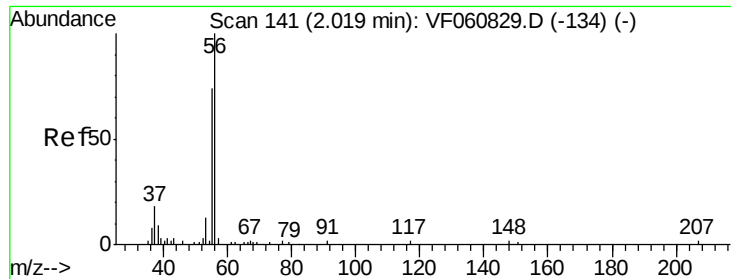
100

0

Time-->

2.54 2.56 2.58 2.60





#13

Acrolein

Concen: 3.674 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.03 min

Lab File: VF060920.D

Acq: 6 Dec 2018 16:37

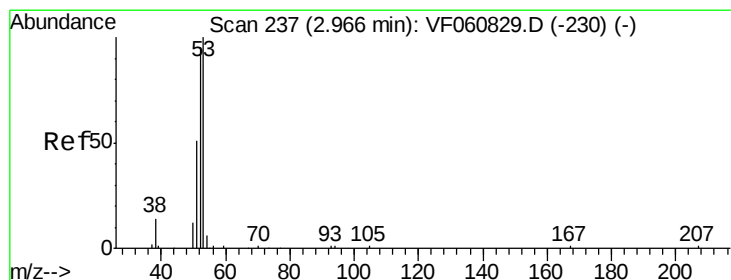
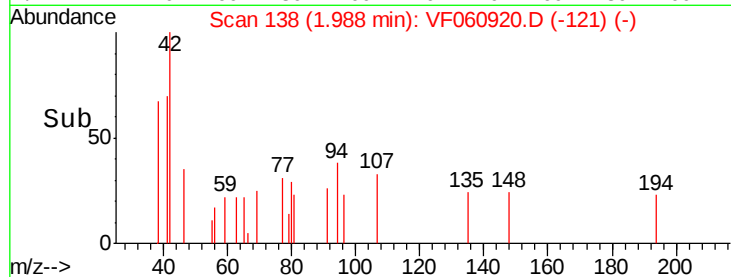
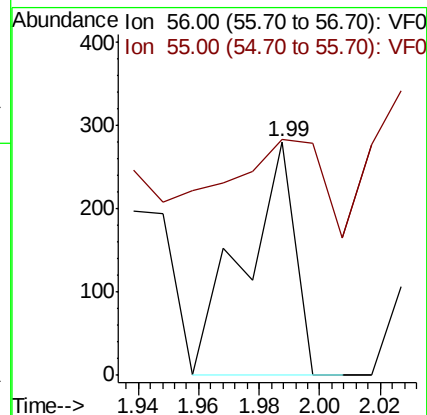
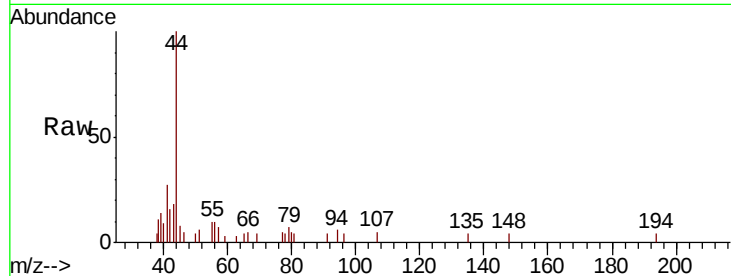
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 323

Ion Ratio Lower Upper

56 100

55 101.1 61.2 91.8#



#15

Acrylonitrile

Concen: 1.798 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF060920.D

Acq: 6 Dec 2018 16:37

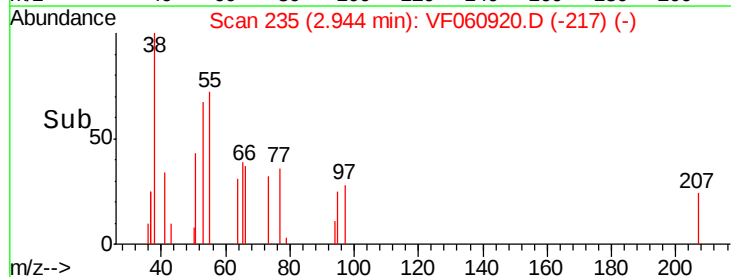
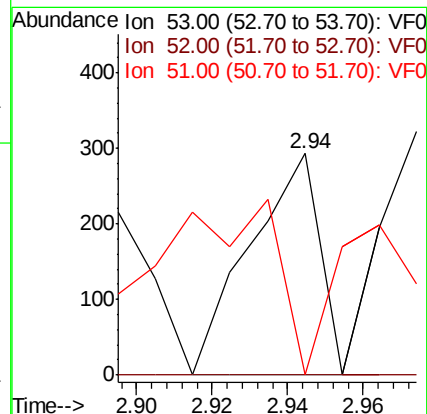
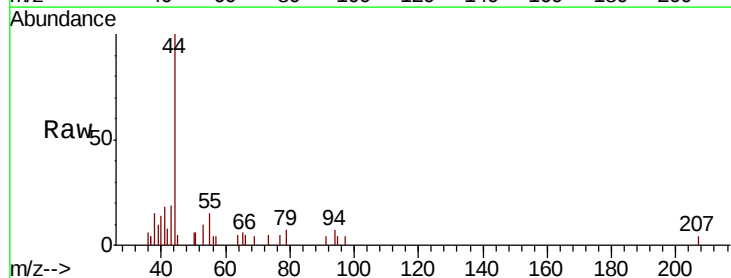
Tgt Ion: 53 Resp: 374

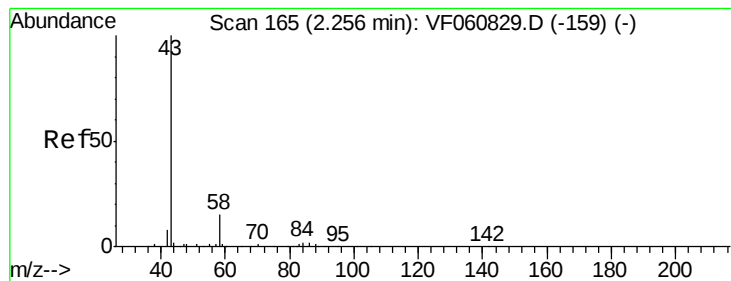
Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 0.0 40.7 61.1#





#16

Acetone

Concen: 3.625 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060920.D

Acq: 6 Dec 2018 16:37

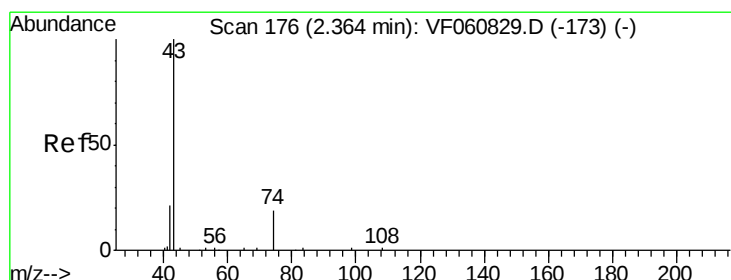
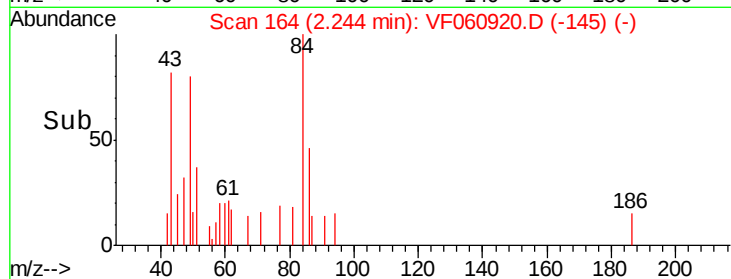
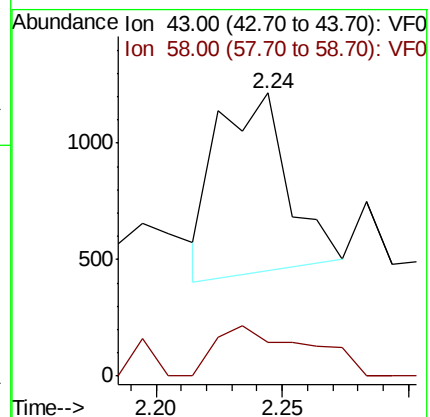
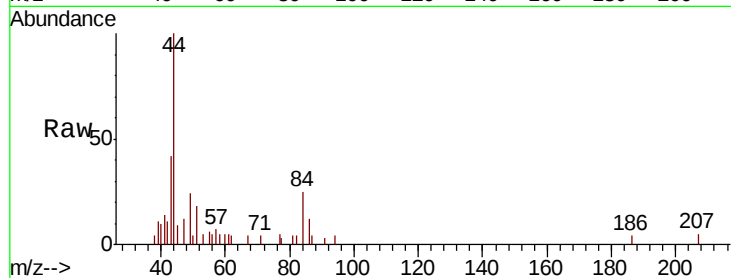
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 1513

Ion Ratio Lower Upper

43 100

58 12.1 11.4 17.2



#18

Methyl Acetate

Concen: Below Cal

RT: 2.32 min Scan# 172

Delta R.T. -0.04 min

Lab File: VF060920.D

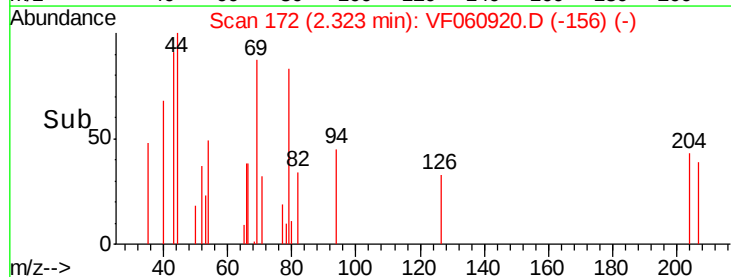
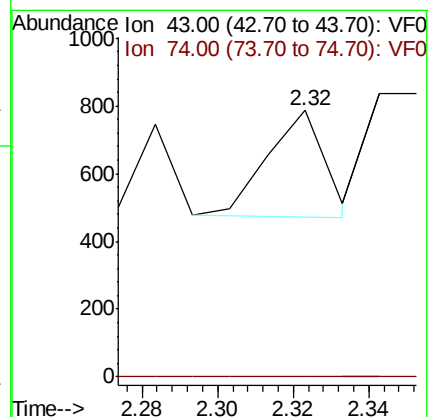
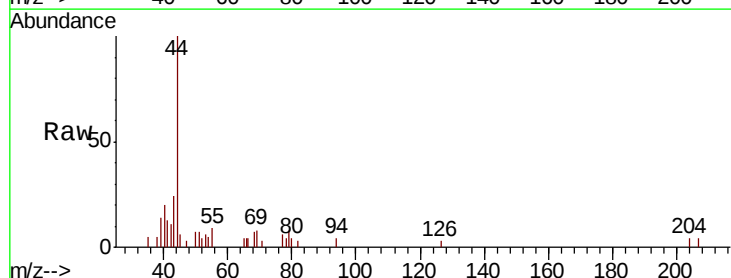
Acq: 6 Dec 2018 16:37

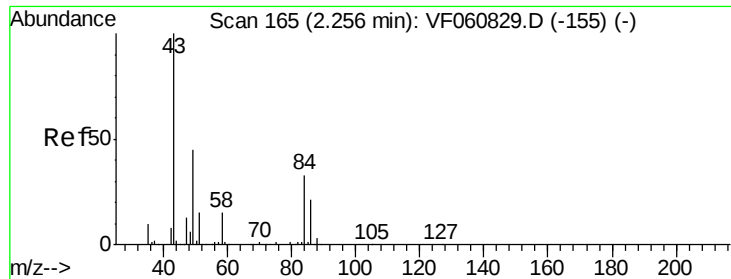
Tgt Ion: 43 Resp: 327

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#





#20

Methylene Chloride

Concen: 1.807 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060920.D

Acq: 6 Dec 2018 16:37

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 2767

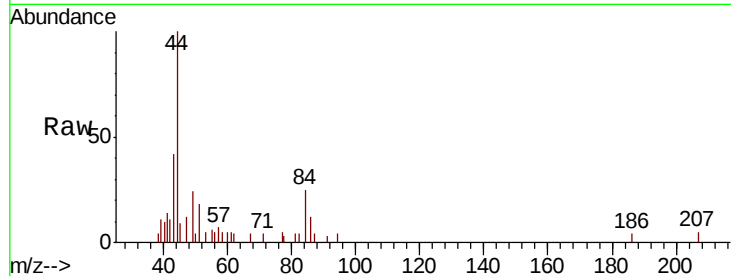
Ion Ratio Lower Upper

84 100

49 95.6 111.3 166.9#

51 70.0 38.0 57.0#

86 46.2 49.8 74.8#

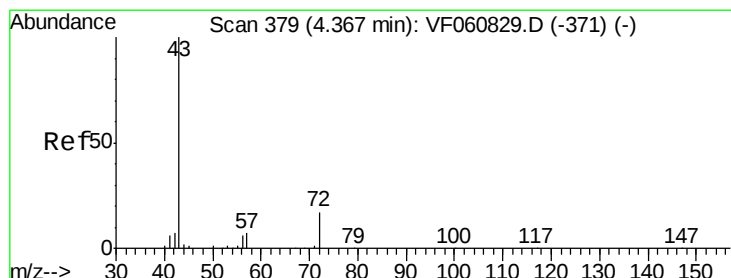
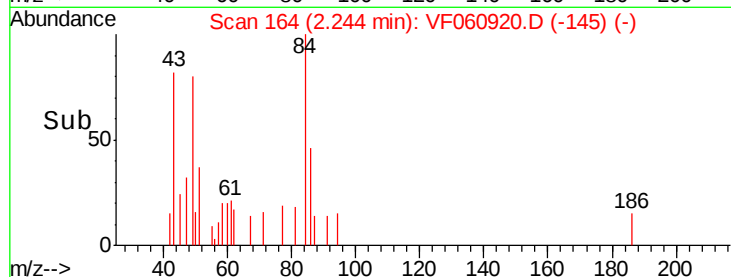
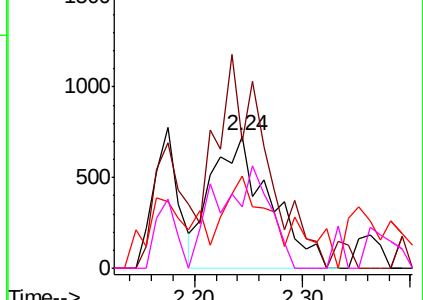


Abundance Ion 84.00 (83.70 to 84.70): VF0

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: 1.105 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.05 min

Lab File: VF060920.D

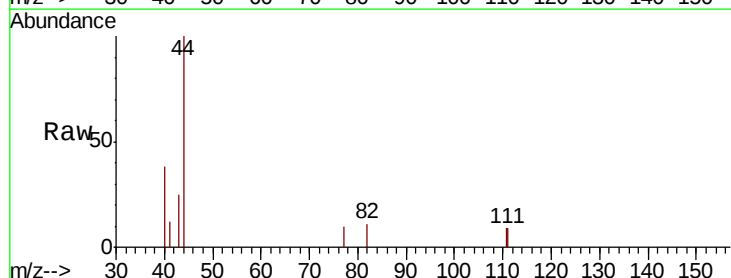
Acq: 6 Dec 2018 16:37

Tgt Ion: 43 Resp: 798

Ion Ratio Lower Upper

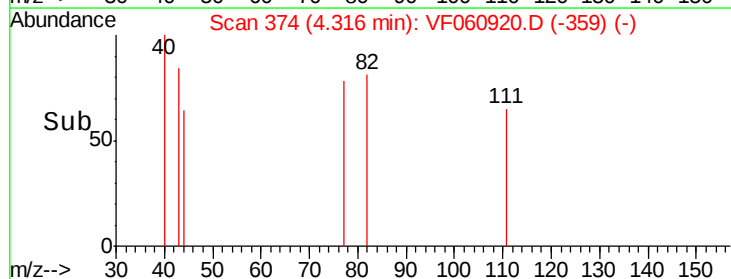
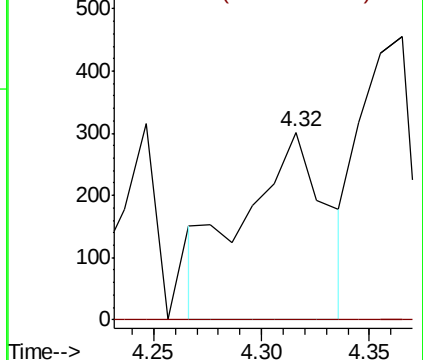
43 100

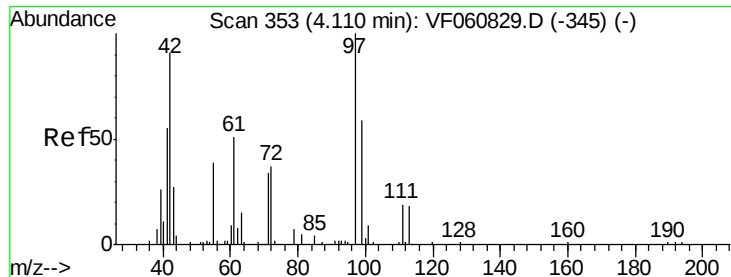
72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.830 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.02 min

Lab File: VF060920.D

Acq: 6 Dec 2018 16:37

Instrument :

MSVOA_F

ClientSampled :

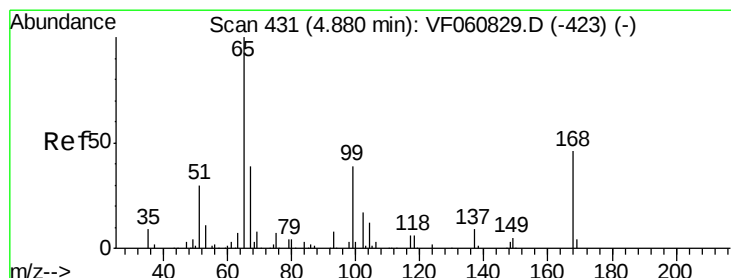
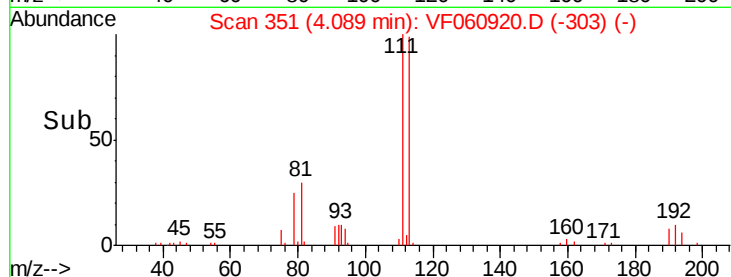
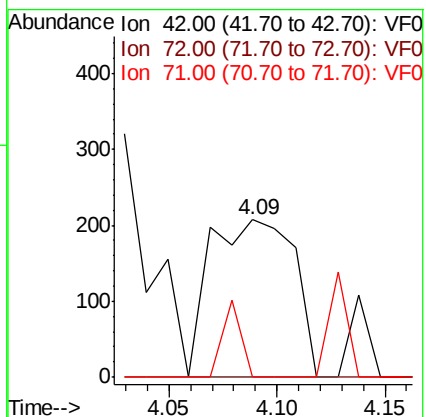
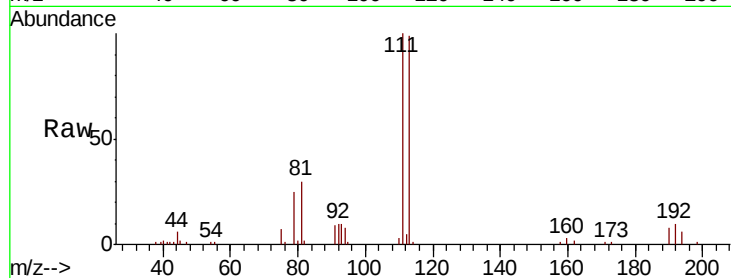
Tot Ion: 42 Resp: 560

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

71 10.7 28.7 43.1#



#33

1,2-Dichloroethane-d4

Concen: 43.557 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF060920.D

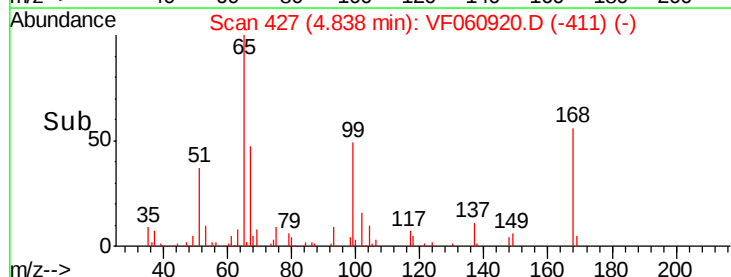
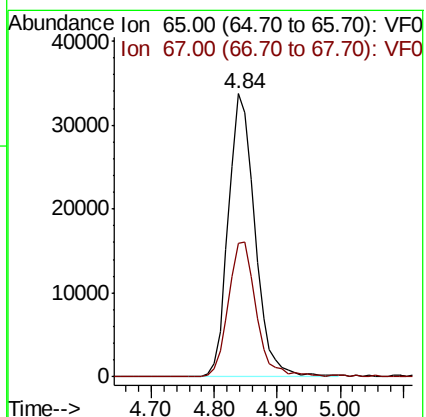
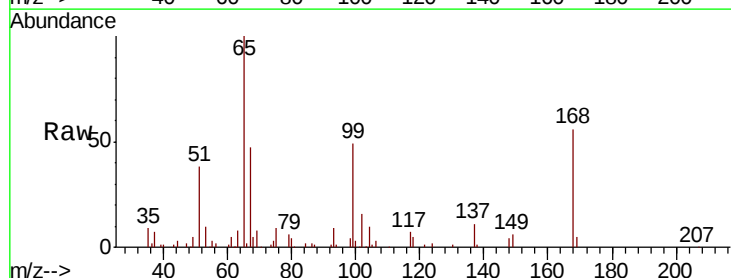
Acq: 6 Dec 2018 16:37

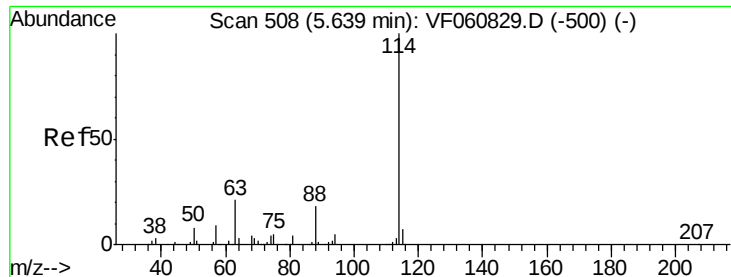
Tgt Ion: 65 Resp: 98597

Ion Ratio Lower Upper

65 100

67 47.2 0.0 96.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF060920.D

Acq: 6 Dec 2018 16:37

Instrument :

MSVOA_F

ClientSampleId :

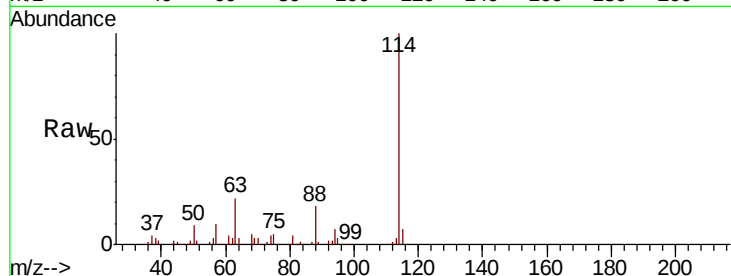
Tot Ion:114 Resp: 316603

Ion Ratio Lower Upper

114 100

63 22.0 0.0 41.6

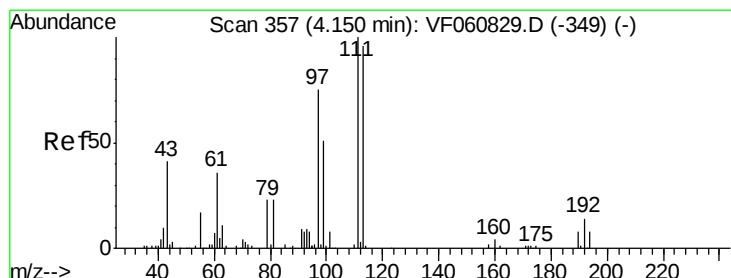
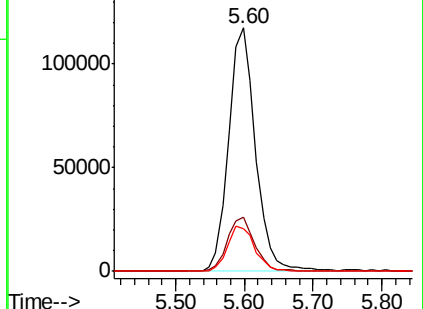
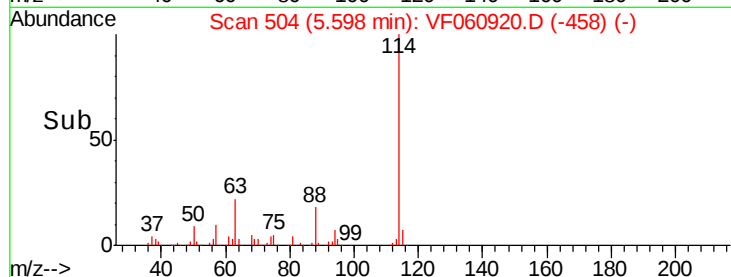
88 17.7 0.0 36.6



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: 43.657 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060920.D

Acq: 6 Dec 2018 16:37

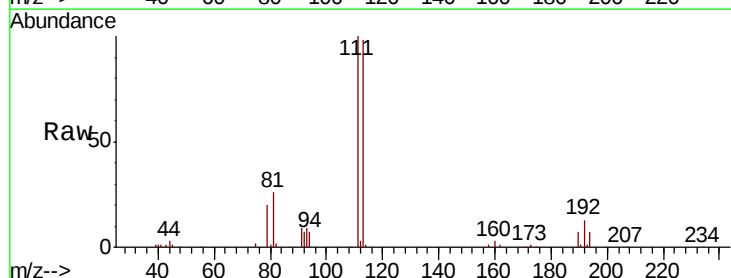
Tgt Ion:113 Resp: 109654

Ion Ratio Lower Upper

113 100

111 102.5 83.0 124.6

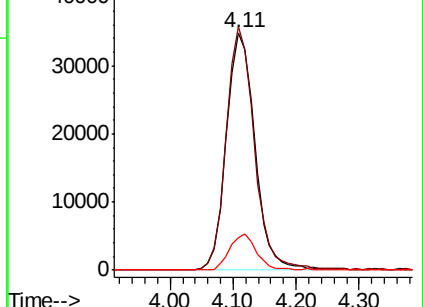
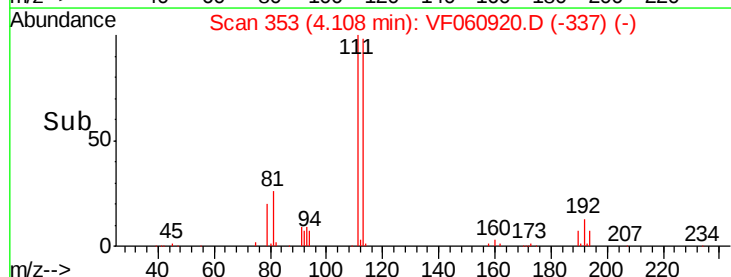
192 13.7 12.3 18.5

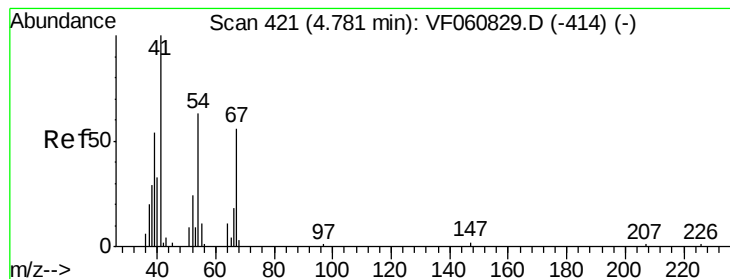


Abundance Ion 113.00 (112.70 to 113.70): V

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: VF060920.D

Acq: 6 Dec 2018 16:37

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 41 Resp: 166

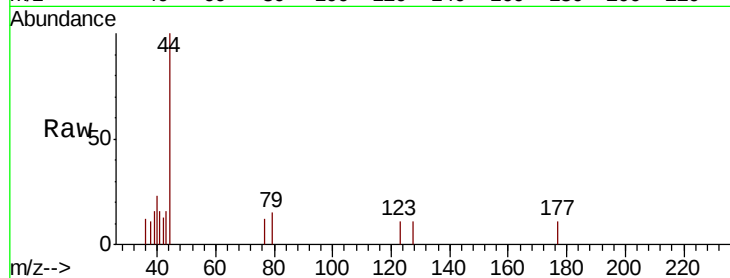
Ion Ratio Lower Upper

41 100

39 98.1 53.0 79.6#

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

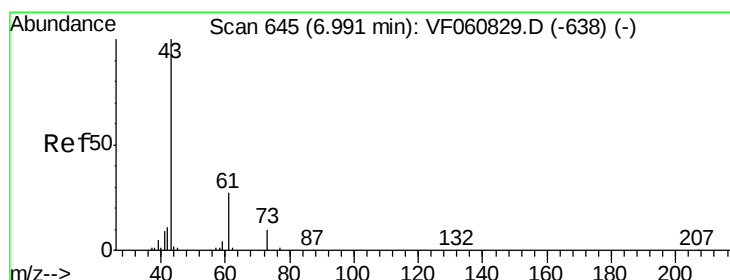
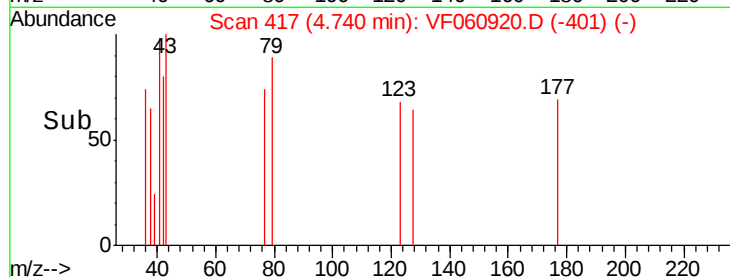
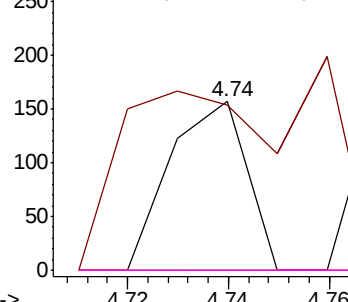


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 6.93 min Scan# 639

Delta R.T. -0.06 min

Lab File: VF060920.D

Acq: 6 Dec 2018 16:37

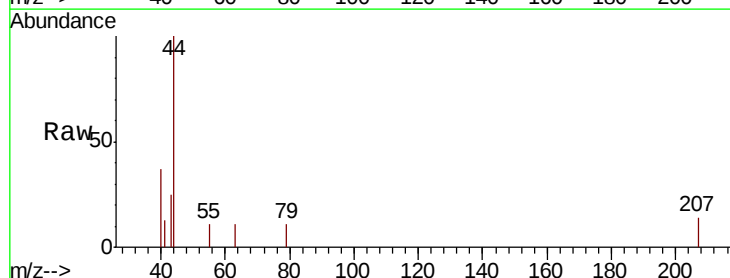
Tgt Ion: 43 Resp: 365

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

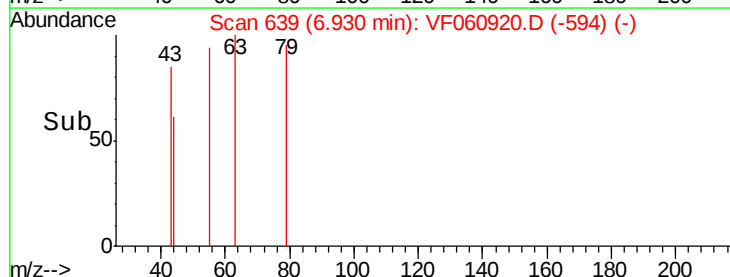
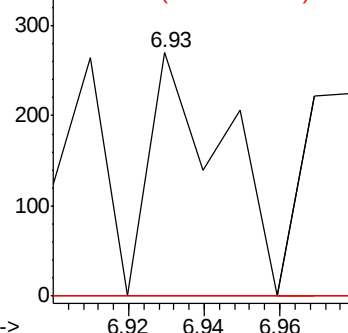
87 0.0 0.2 0.4#

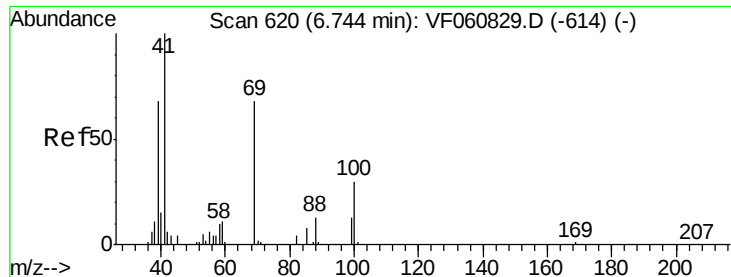


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

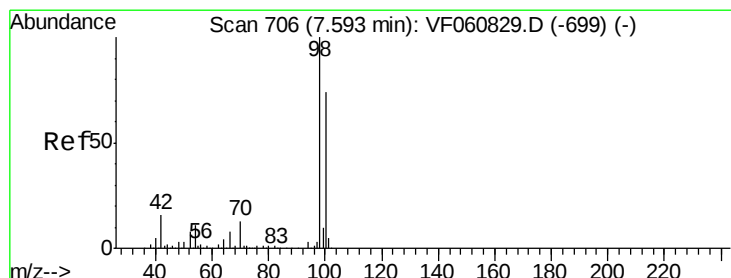
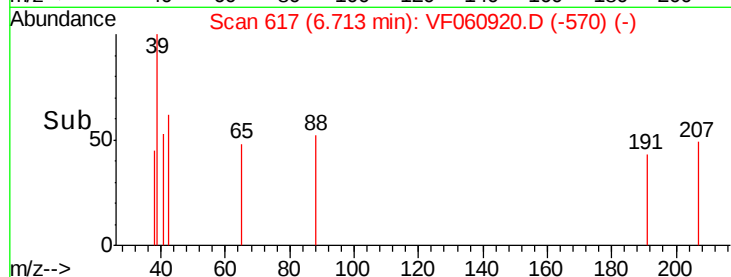
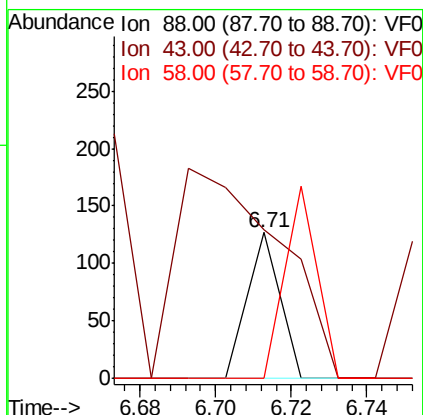
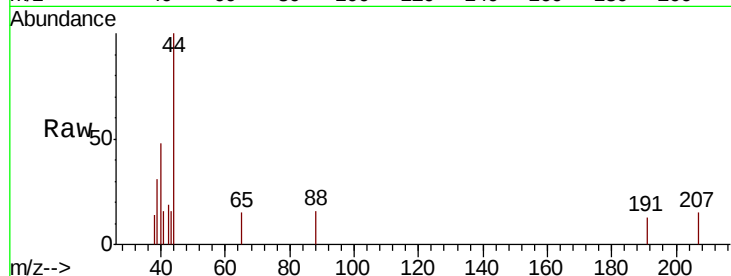




#49
1,4-Dioxane
Concen: 7.933 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.03 min
Lab File: VF060920.D
Acq: 6 Dec 2018 16:37

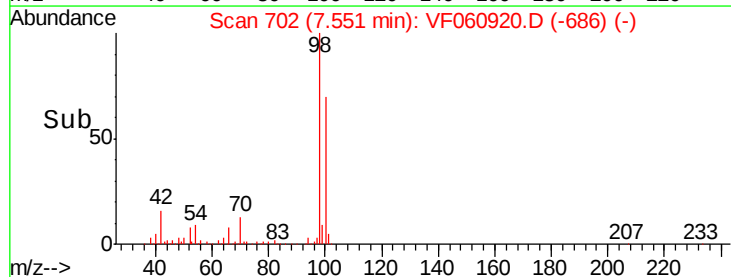
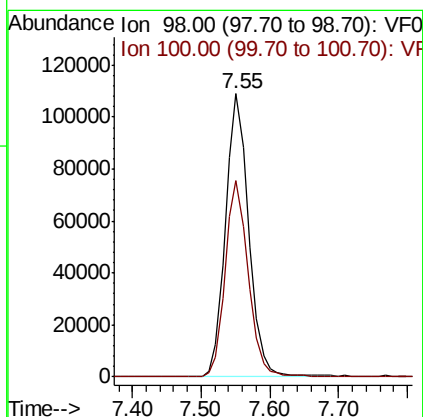
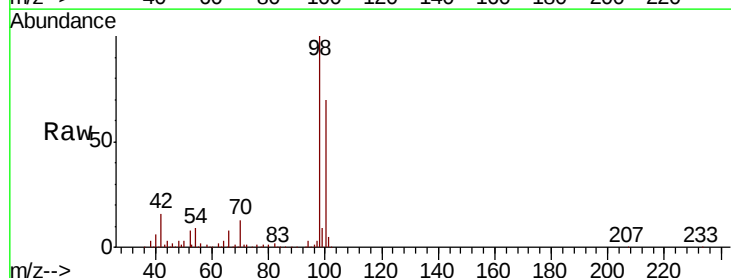
Instrument :
MSVOA_F
ClientSampleId :

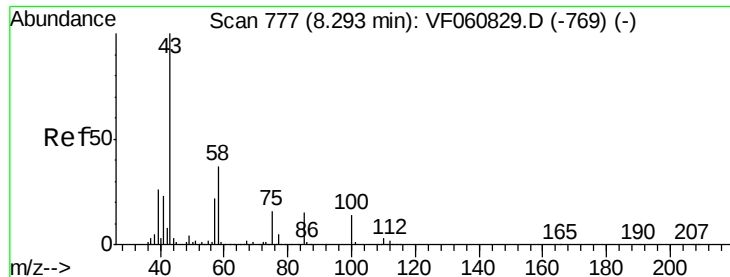
Tot Ion: 88 Resp: 75
Ion Ratio Lower Upper
88 100
43 101.6 42.0 63.0#
58 0.0 61.8 92.8#



#50
Toluene-d8
Concen: 34.491 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.04 min
Lab File: VF060920.D
Acq: 6 Dec 2018 16:37

Tgt Ion: 98 Resp: 255187
Ion Ratio Lower Upper
98 100
100 69.6 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 1.442 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF060920.D

Acq: 6 Dec 2018 16:37

Instrument :

MSVOA_F

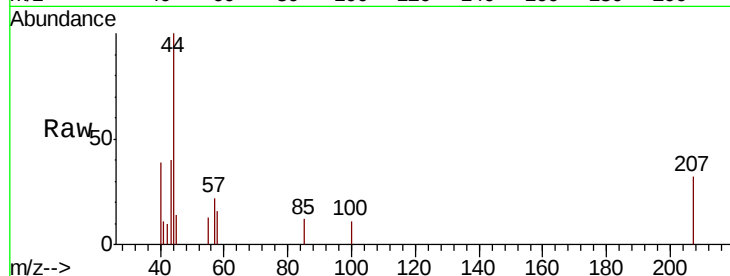
ClientSampleId :

Tot Ion: 43 Resp: 1897

Ion Ratio Lower Upper

43 100

58 40.1 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

500

400

300

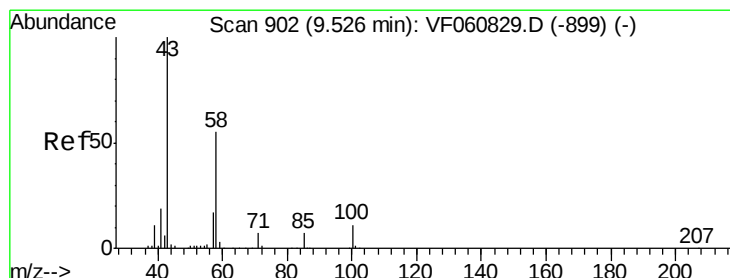
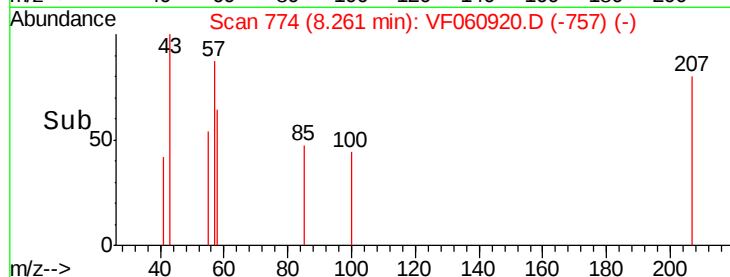
200

100

0

8.20 8.30 8.40

Time-->



#59

2-Hexanone

Concen: 1.566 ug/l

RT: 9.50 min Scan# 900

Delta R.T. -0.02 min

Lab File: VF060920.D

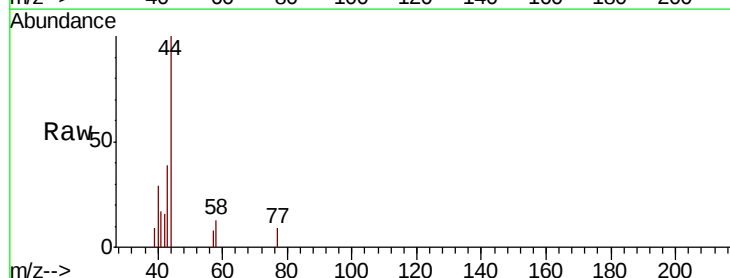
Acq: 6 Dec 2018 16:37

Tgt Ion: 43 Resp: 1446

Ion Ratio Lower Upper

43 100

58 33.5 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

600

500

400

300

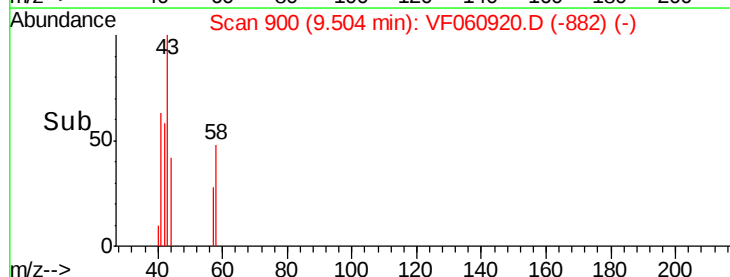
200

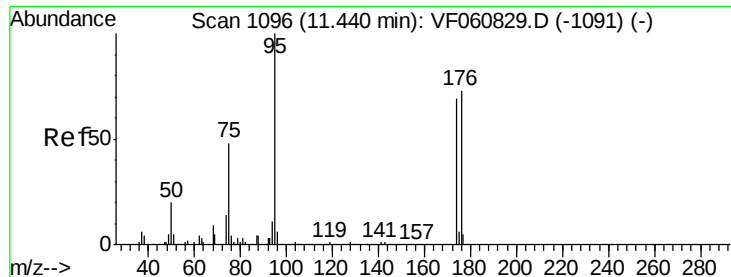
100

0

9.45 9.50 9.55

Time-->

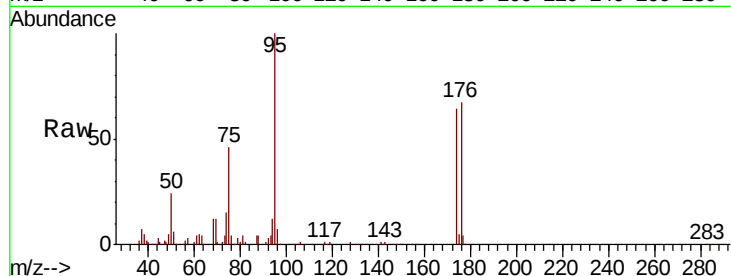




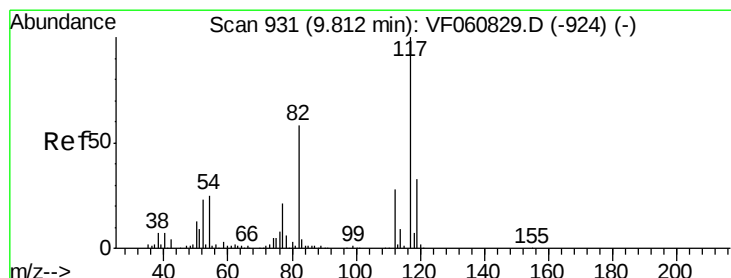
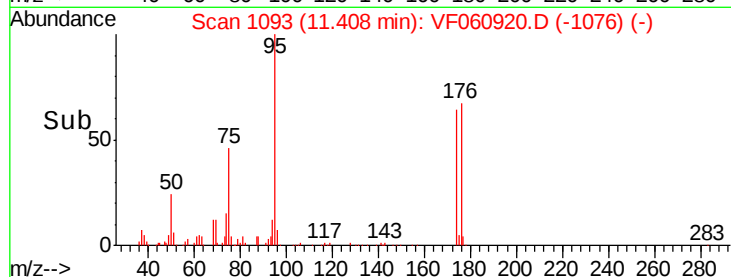
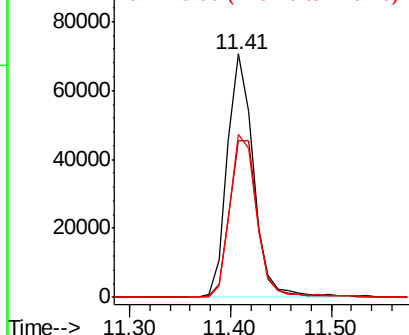
#62
4-Bromofluorobenzene
Concen: 37.995 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF060920.D
Acq: 6 Dec 2018 16:37

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 95 Resp: 127762
Ion Ratio Lower Upper
95 100
174 64.4 0.0 138.2
176 66.9 0.0 146.2

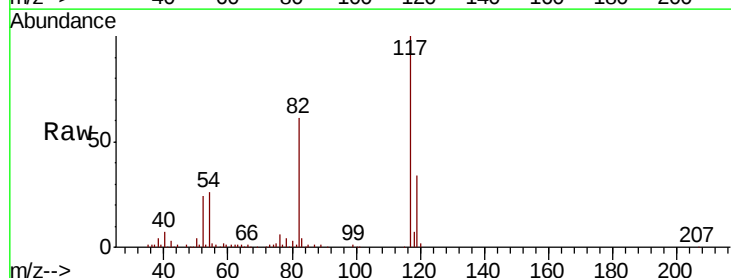


Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

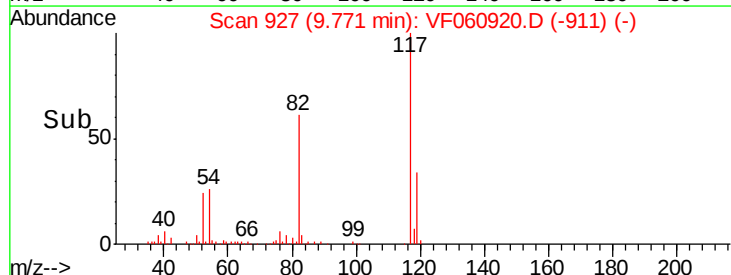
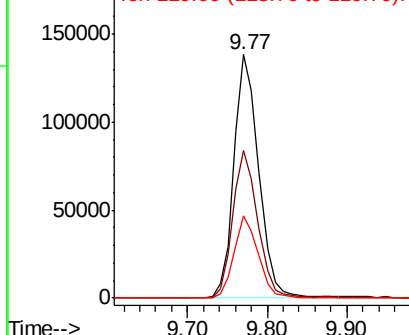


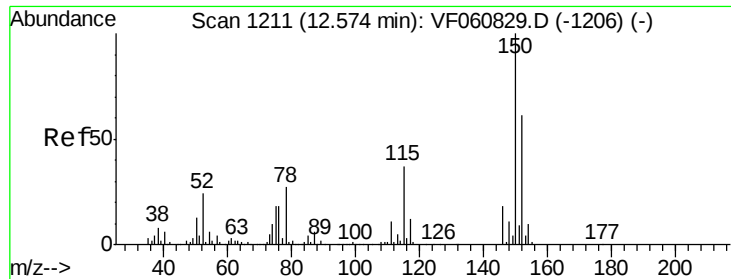
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060920.D
Acq: 6 Dec 2018 16:37

Tgt Ion: 117 Resp: 302047
Ion Ratio Lower Upper
117 100
82 60.7 46.6 69.8
119 33.9 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



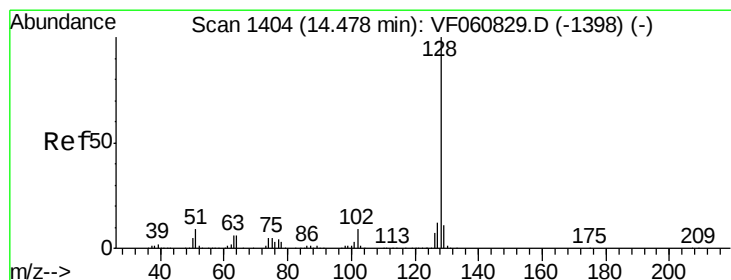
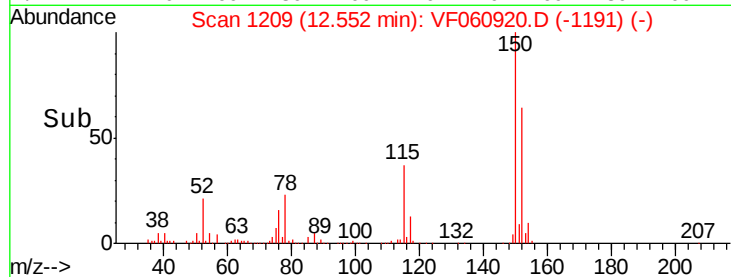
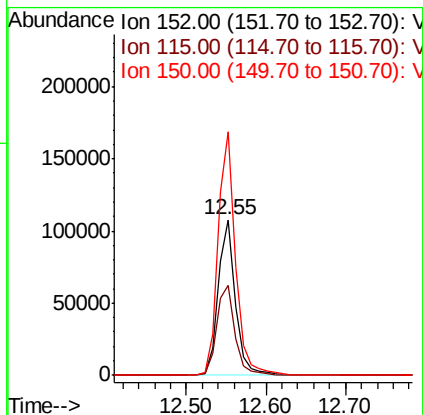
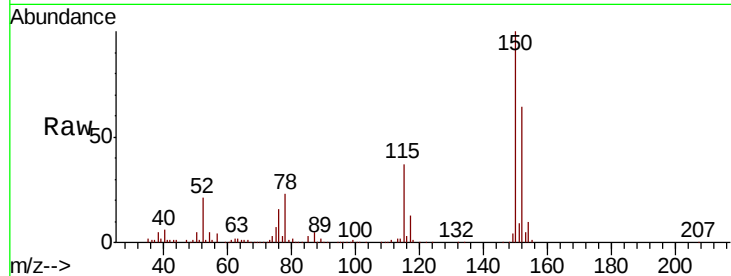


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060920.D
Acq: 6 Dec 2018 16:37

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:152 Resp: 165563
Ion Ratio Lower Upper
152 100
115 58.1 30.1 90.5
150 156.7 0.0 327.6



#95

Naphthalene
Concen: Below Cal
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF060920.D
Acq: 6 Dec 2018 16:37

Tgt Ion:128 Resp: 1897
Ion Ratio Lower Upper
128 100
127 10.2 9.9 14.9
129 0.0 9.1 13.7#

