

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112818\
 Data File : VF060851.D
 Acq On : 28 Nov 2018 11:46
 Operator : VA/AP
 Sample : VF1128SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1128SBL01

Quant Time: Nov 29 03:27:16 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

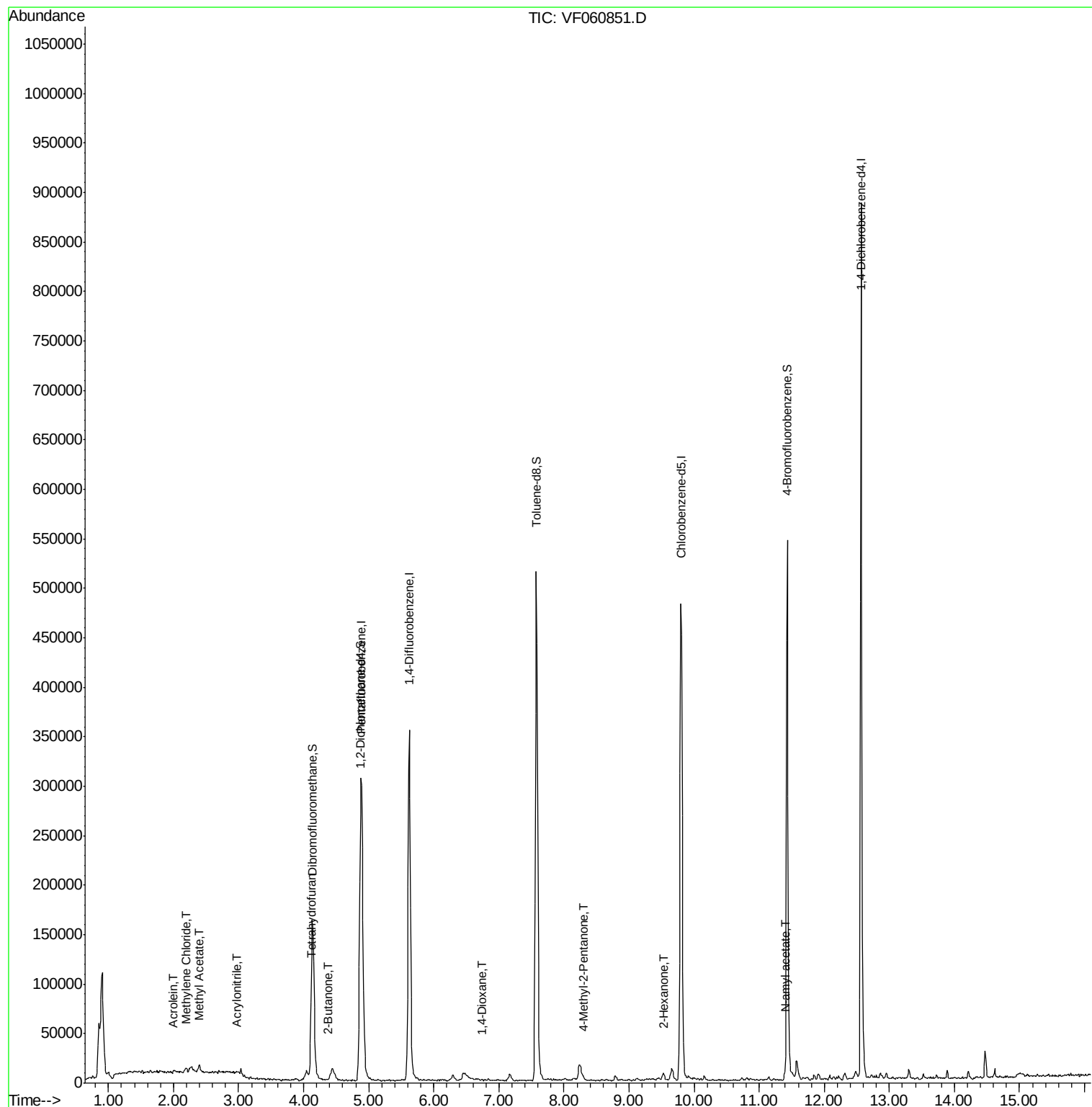
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	227311	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	395095	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.80	117	347588	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.57	152	211782	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	136229	50.87	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	101.74%	
35) Dibromofluoromethane	4.13	113	152341	48.60	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	97.20%	
50) Toluene-d8	7.58	98	421767	45.68	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	91.36%	
62) 4-Bromofluorobenzene	11.43	95	209014	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
Target Compounds						
					Qvalue	
13) Acrolein	1.98	56	237	2.279	ug/l	98
15) Acrylonitrile	2.96	53	894	3.633	ug/l #	40
18) Methyl Acetate	2.40	43	6000	5.782	ug/l #	61
20) Methylene Chloride	2.19	84	2282	1.260	ug/l	88
25) 2-Butanone	4.36	43	1537	1.800	ug/l #	57
29) Tetrahydrofuran	4.10	42	1148	3.171	ug/l #	74
41) Methacrylonitrile	4.77	41	522	Below Cal	#	37
43) Isopropyl Acetate	6.99	43	1395	Below Cal	#	49
49) 1,4-Dioxane	6.75	88	63	5.340	ug/l #	1
51) 4-Methyl-2-Pentanone	8.30	43	3621	2.205	ug/l #	73
59) 2-Hexanone	9.52	43	6115	5.308	ug/l	78
74) N-amyl acetate	11.39	43	5831	1.509	ug/l #	90
95) Naphthalene	14.47	128	16539	Below Cal	#	95

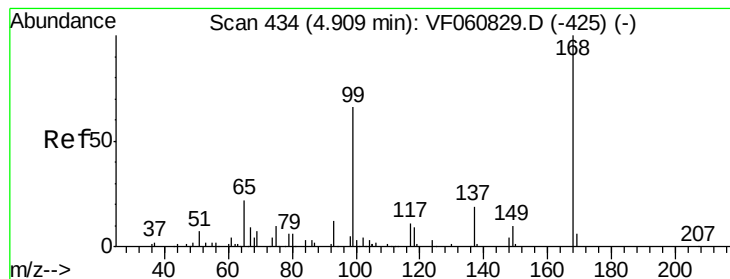
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.89 min Scan# 432

Delta R.T. -0.02 min

Lab File: VF060851.D

Acq: 28 Nov 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

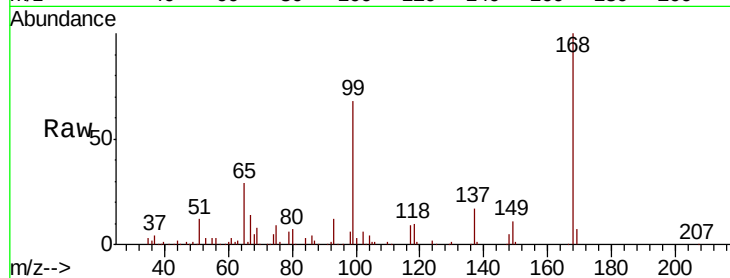
VF1128SBL01

Tot Ion:168 Resp: 227311

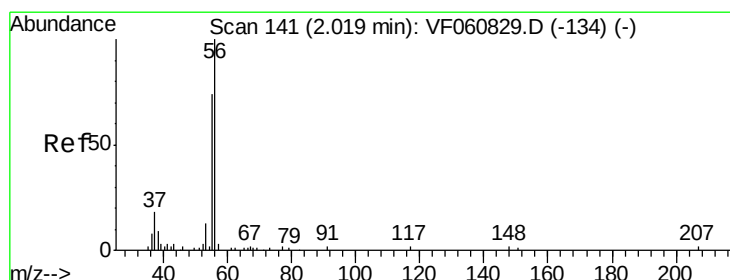
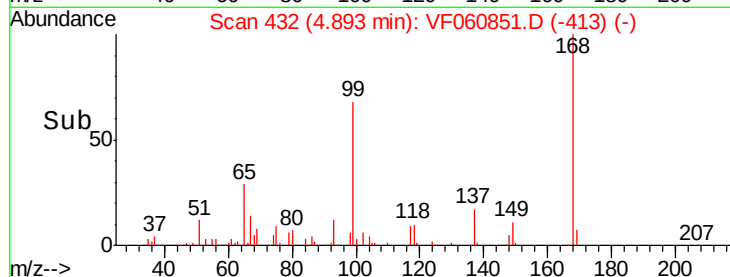
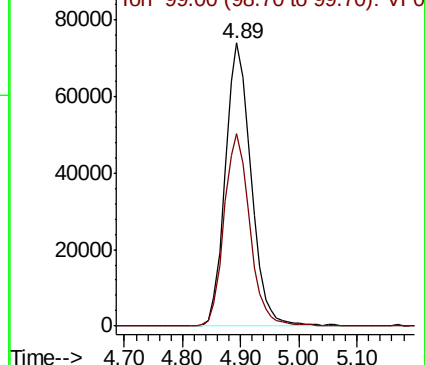
Ion Ratio Lower Upper

168 100

99 68.0 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#13

Acrolein

Concen: 2.279 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.04 min

Lab File: VF060851.D

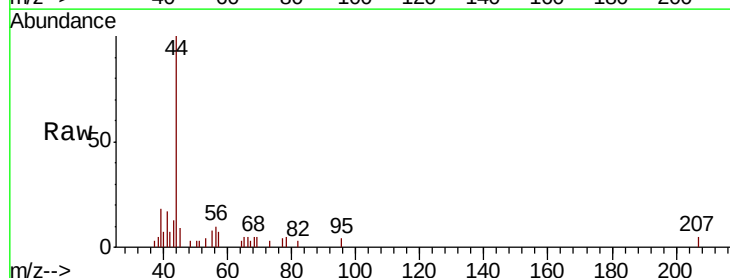
Acq: 28 Nov 2018 11:46

Tgt Ion: 56 Resp: 237

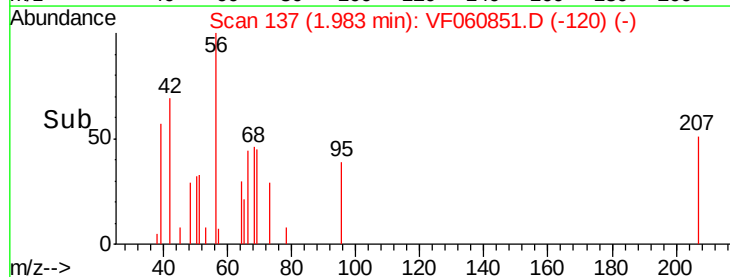
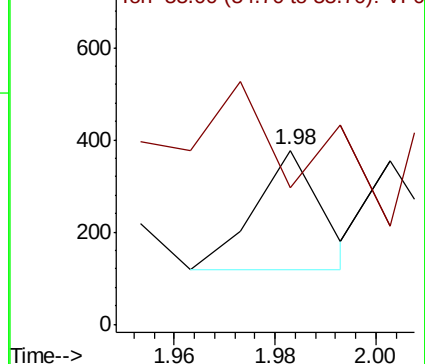
Ion Ratio Lower Upper

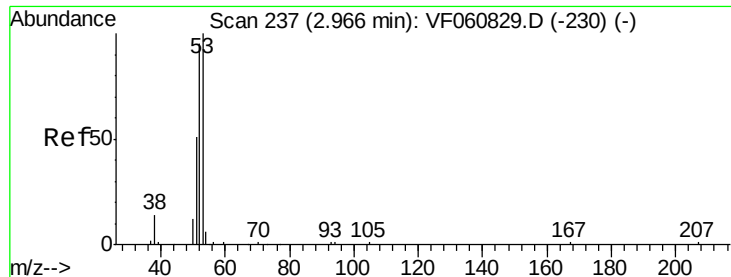
56 100

55 78.2 61.2 91.8



Abundance Ion 56.00 (55.70 to 56.70): VF0





#15

Acrylonitrile

Concen: 3.633 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF060851.D

Acq: 28 Nov 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

VF1128SBL01

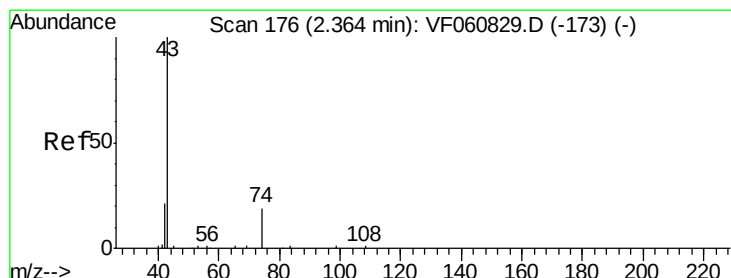
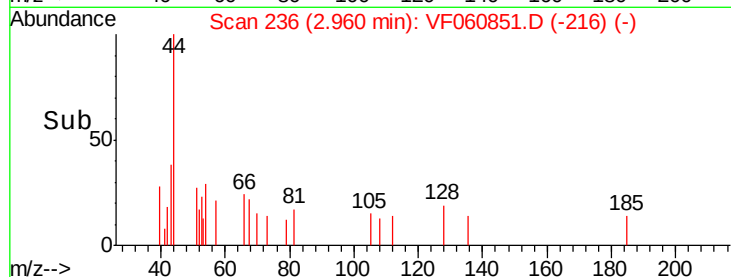
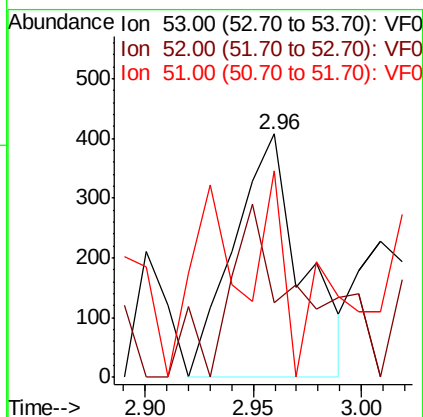
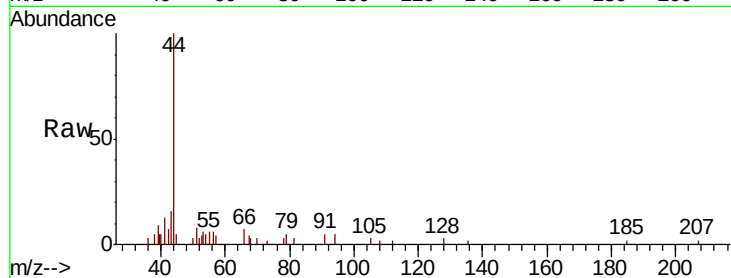
Tot Ion: 53 Resp: 894

Ion Ratio Lower Upper

53 100

52 30.9 76.5 114.7#

51 85.0 40.7 61.1#



#18

Methyl Acetate

Concen: 5.782 ug/l

RT: 2.40 min Scan# 179

Delta R.T. 0.03 min

Lab File: VF060851.D

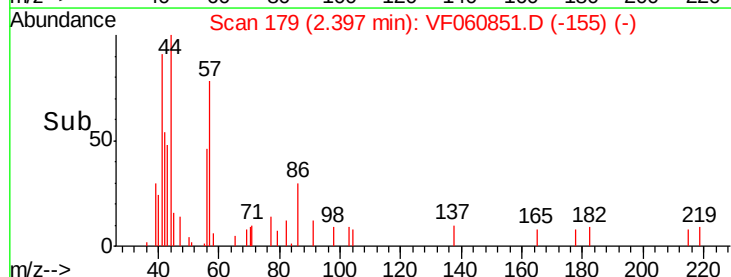
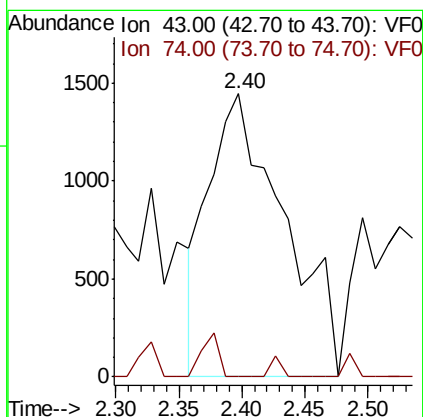
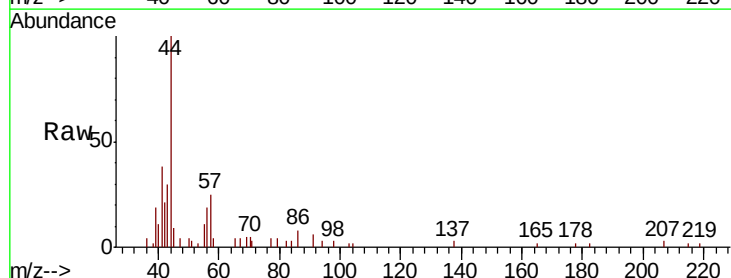
Acq: 28 Nov 2018 11:46

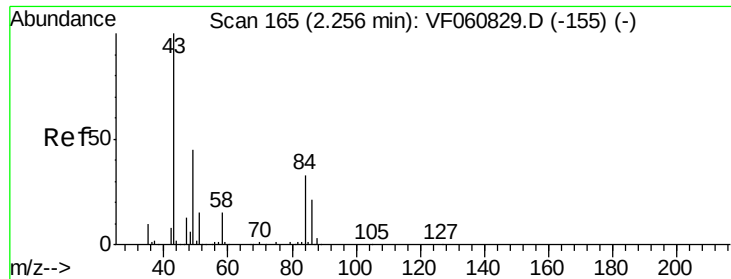
Tgt Ion: 43 Resp: 6000

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#

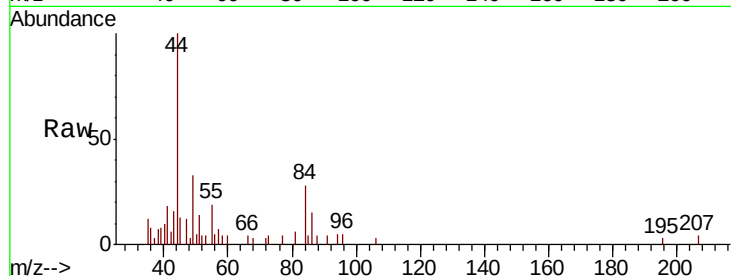




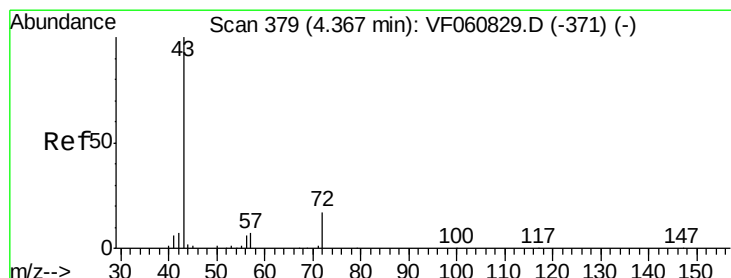
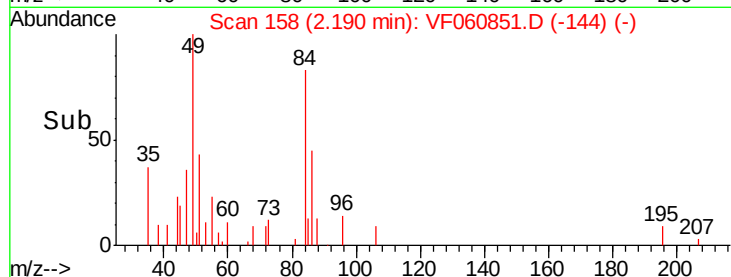
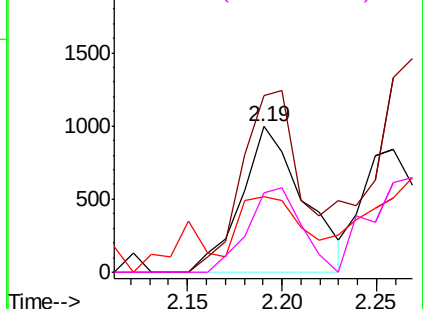
#20
Methvlene Chloride
Concen: 1.260 ug/l
RT: 2.19 min Scan# 158
Delta R.T. -0.07 min
Lab File: VF060851.D
Acq: 28 Nov 2018 11:46

Instrument :
MSVOA_F
ClientSampleId :
VF1128SBL01

Tot Ion: 84 Resp: 2282
Ion Ratio Lower Upper
84 100
49 121.2 111.3 166.9
51 52.0 38.0 57.0
86 54.7 49.8 74.8

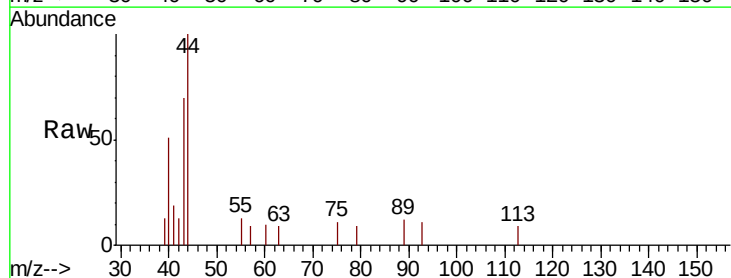


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

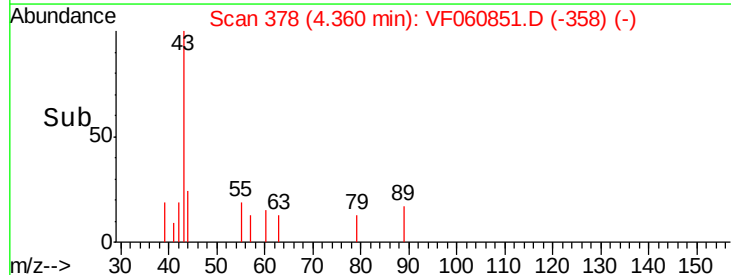
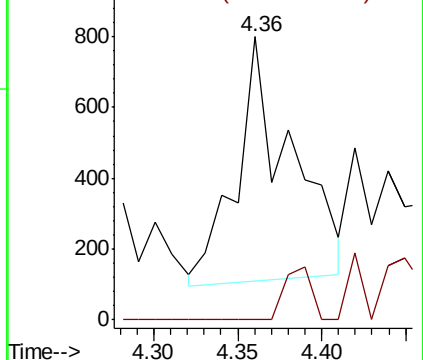


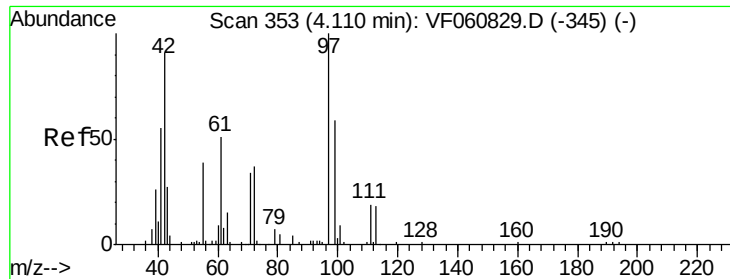
#25
2-Butanone
Concen: 1.800 ug/l
RT: 4.36 min Scan# 378
Delta R.T. -0.01 min
Lab File: VF060851.D
Acq: 28 Nov 2018 11:46

Tgt Ion: 43 Resp: 1537
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: 3.171 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060851.D

Acq: 28 Nov 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

VF1128SBL01

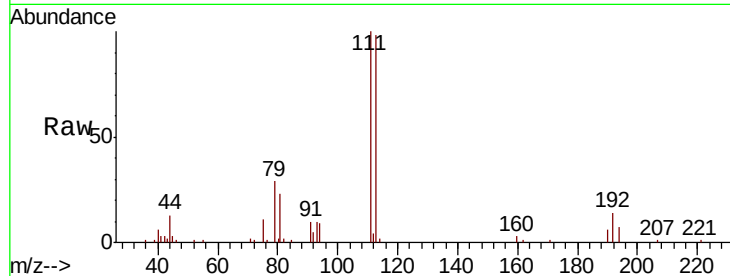
Tot Ion: 42 Resp: 1148

Ion Ratio Lower Upper

42 100

72 27.0 31.9 47.9#

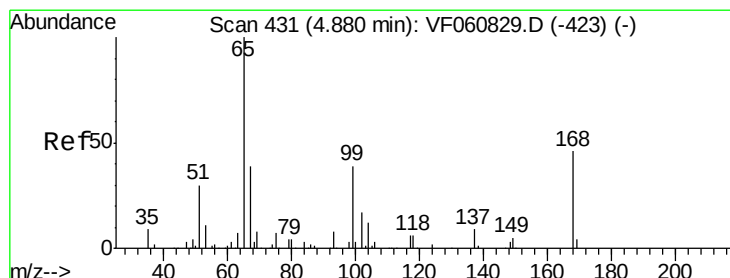
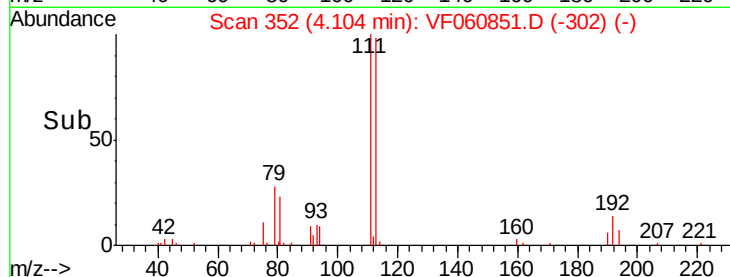
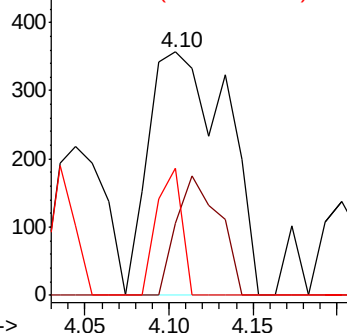
71 16.9 28.7 43.1#



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: 50.873 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF060851.D

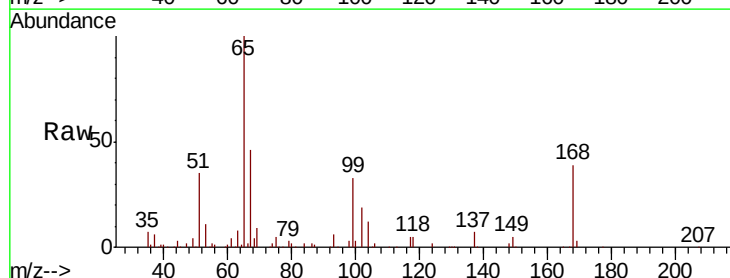
Acq: 28 Nov 2018 11:46

Tgt Ion: 65 Resp: 136229

Ion Ratio Lower Upper

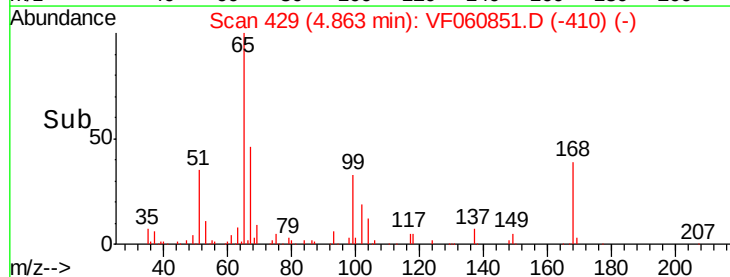
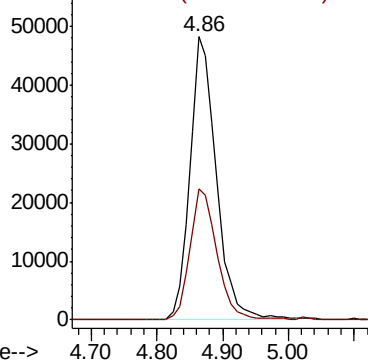
65 100

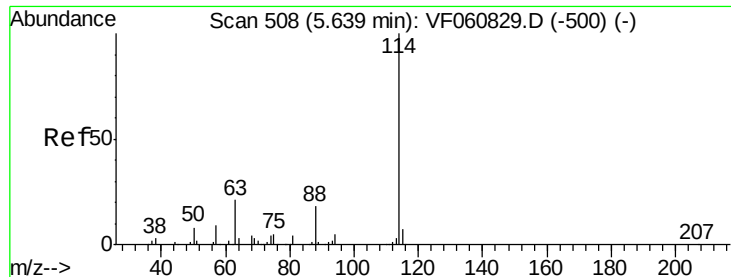
67 46.2 0.0 96.4



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: VF060851.D

Acq: 28 Nov 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

VF1128SBL01

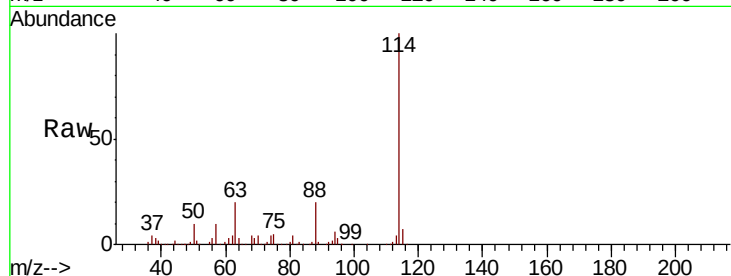
Tot Ion:114 Resp: 395095

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.6

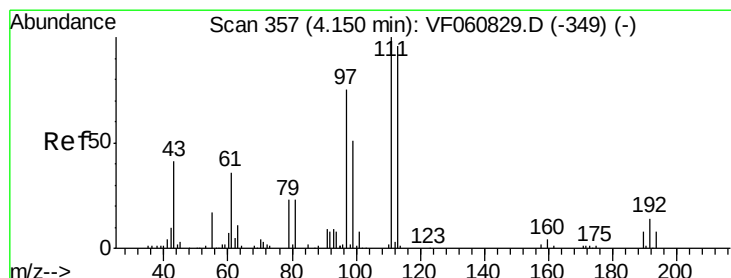
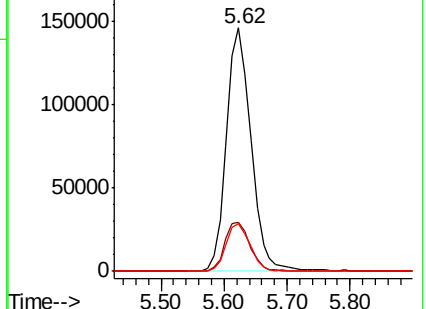
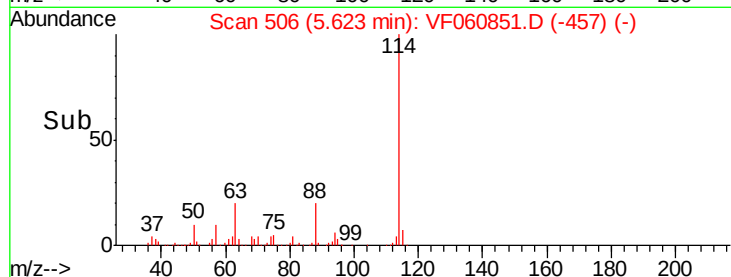
88 19.6 0.0 36.6



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: 48.603 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.02 min

Lab File: VF060851.D

Acq: 28 Nov 2018 11:46

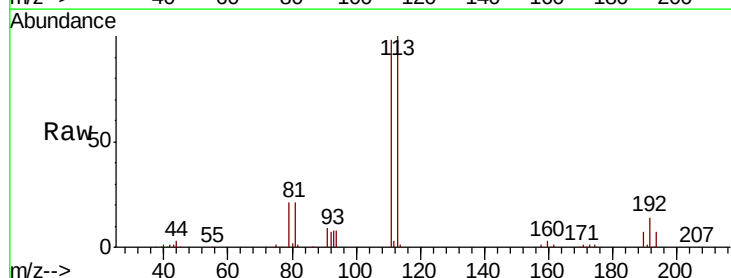
Tgt Ion:113 Resp: 152341

Ion Ratio Lower Upper

113 100

111 97.8 83.0 124.6

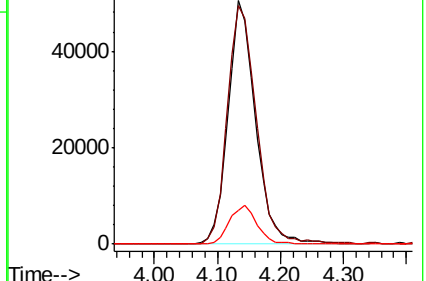
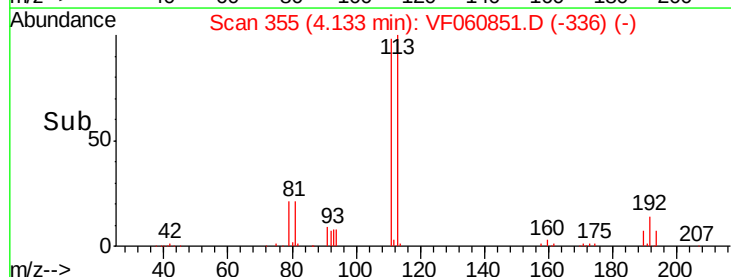
192 13.8 12.3 18.5

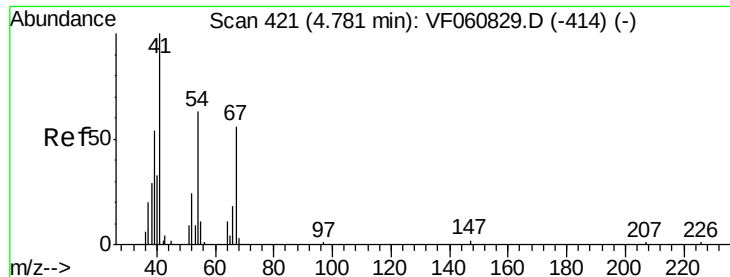


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

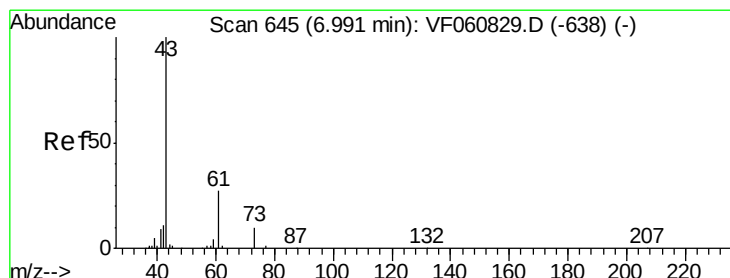
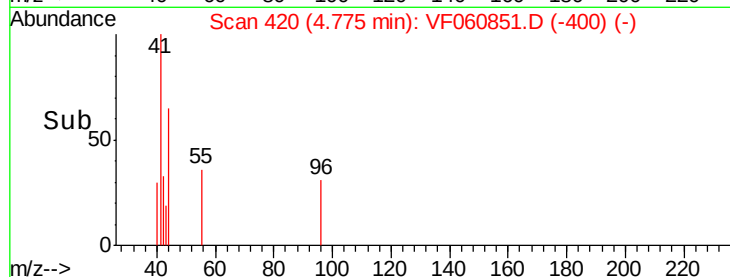
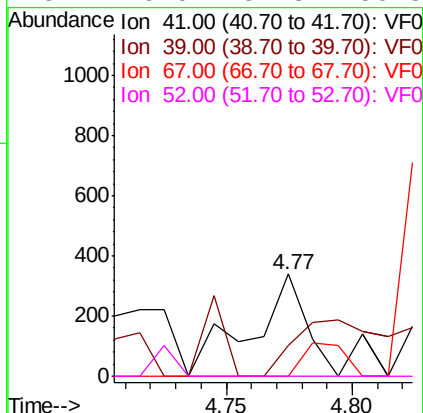
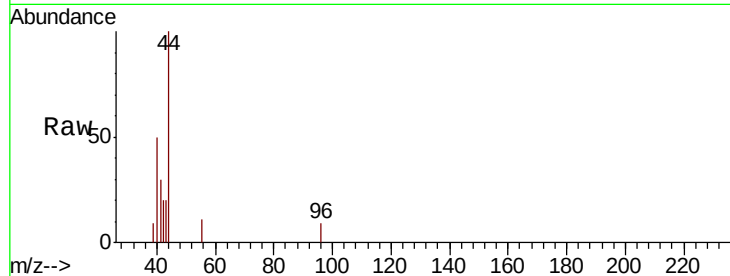




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.77 min Scan# 420
Delta R.T. -0.01 min
Lab File: VF060851.D
Acq: 28 Nov 2018 11:46

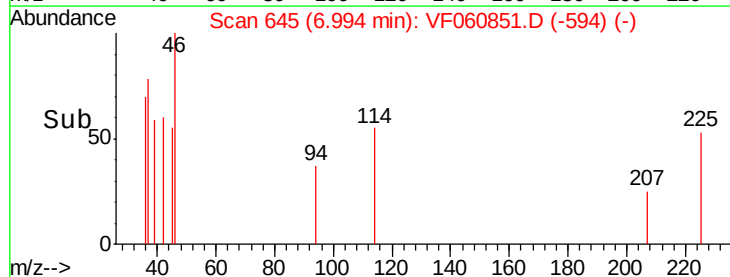
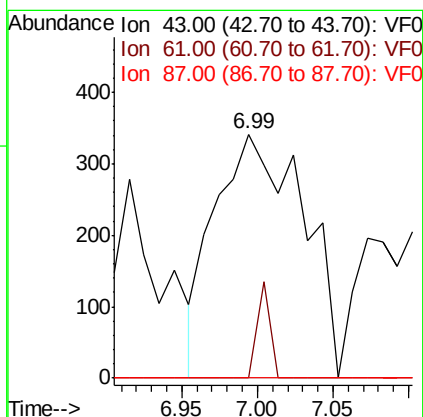
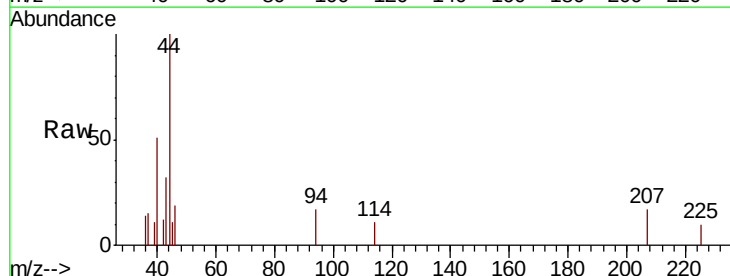
Instrument :
MSVOA_F
ClientSampleId :
VF1128SBL01

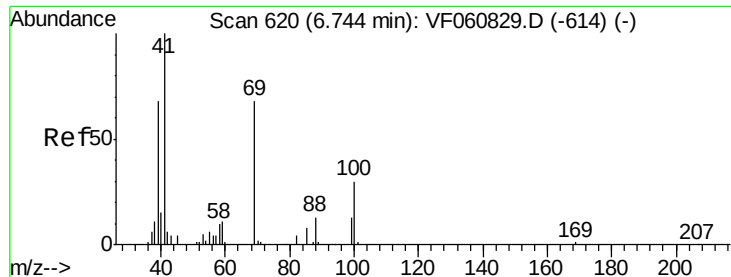
Tot Ion: 41 Resp: 522
Ion Ratio Lower Upper
41 100
39 29.8 53.0 79.6#
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.99 min Scan# 645
Delta R.T. 0.00 min
Lab File: VF060851.D
Acq: 28 Nov 2018 11:46

Tgt Ion: 43 Resp: 1395
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: 5.340 ug/l

RT: 6.75 min Scan# 620

Delta R.T. 0.00 min

Lab File: VF060851.D

Acq: 28 Nov 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

VF1128SBL01

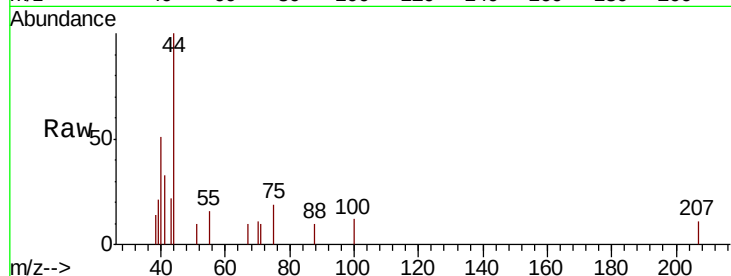
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 212.3 42.0 63.0#

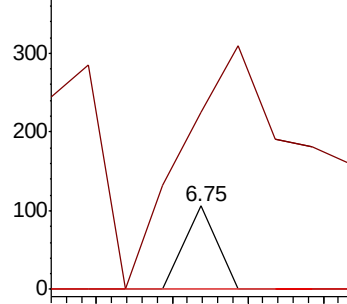
58 0.0 61.8 92.8#



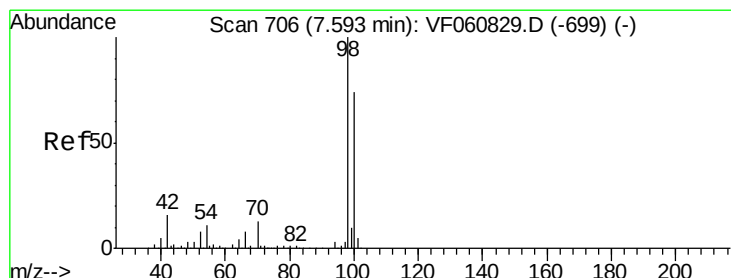
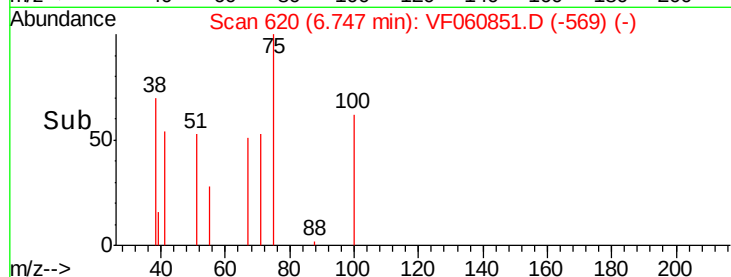
Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#50

Toluene-d8

Concen: 45.681 ug/l

RT: 7.58 min Scan# 704

Delta R.T. -0.02 min

Lab File: VF060851.D

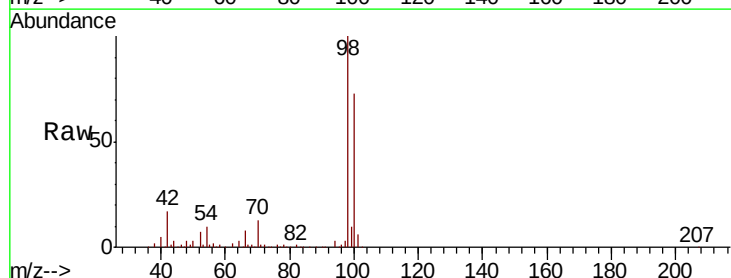
Acq: 28 Nov 2018 11:46

Tgt Ion: 98 Resp: 421767

Ion Ratio Lower Upper

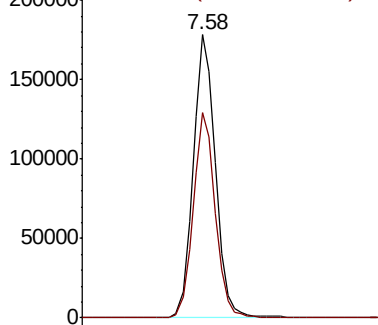
98 100

100 72.6 59.3 88.9

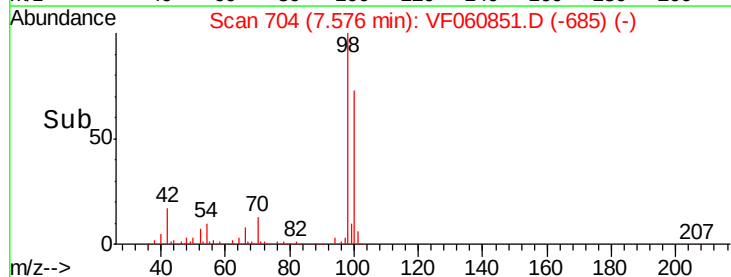


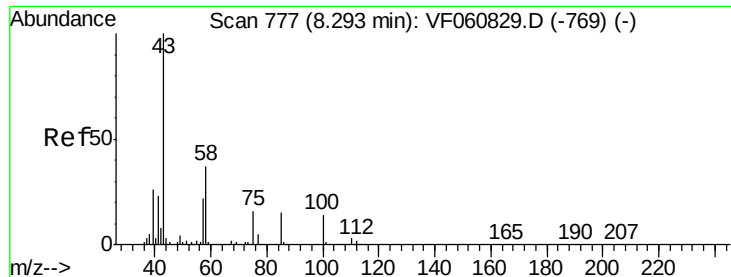
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 2.205 ug/l

RT: 8.30 min Scan# 777

Delta R.T. 0.00 min

Lab File: VF060851.D

Acq: 28 Nov 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

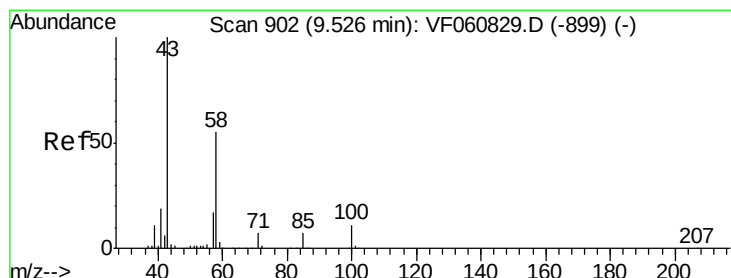
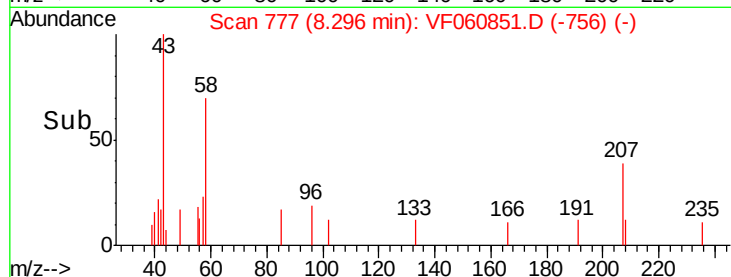
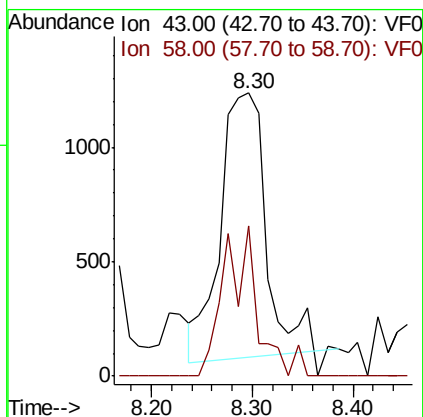
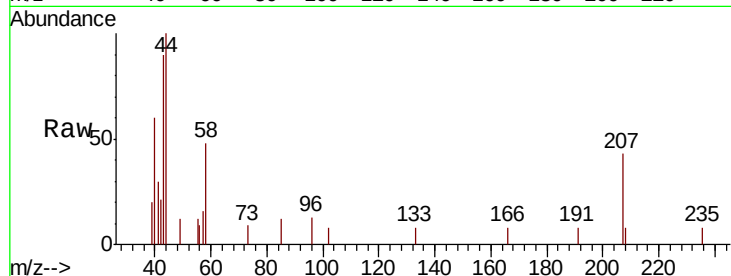
VF1128SBL01

Tot Ion: 43 Resp: 3621

Ion Ratio Lower Upper

43 100

58 53.3 29.7 44.5#



#59

2-Hexanone

Concen: 5.308 ug/l

RT: 9.52 min Scan# 901

Delta R.T. -0.01 min

Lab File: VF060851.D

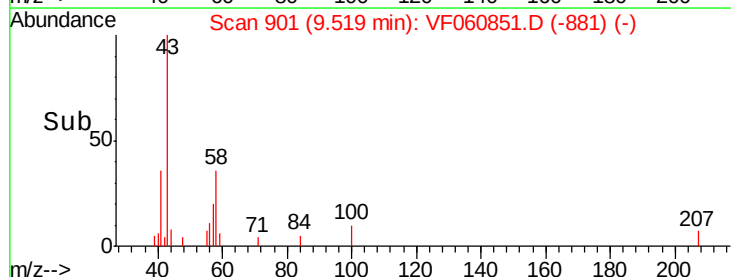
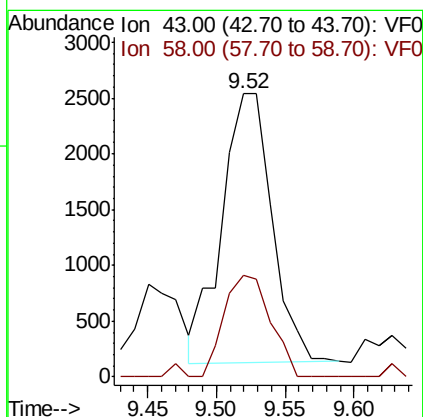
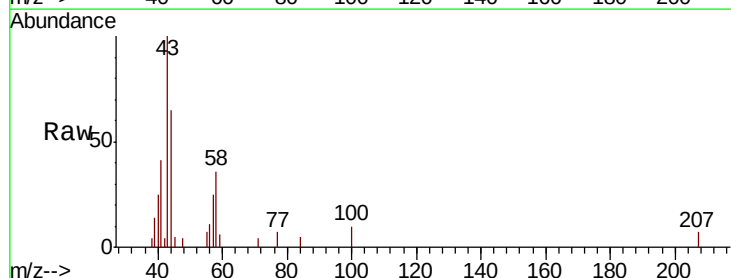
Acq: 28 Nov 2018 11:46

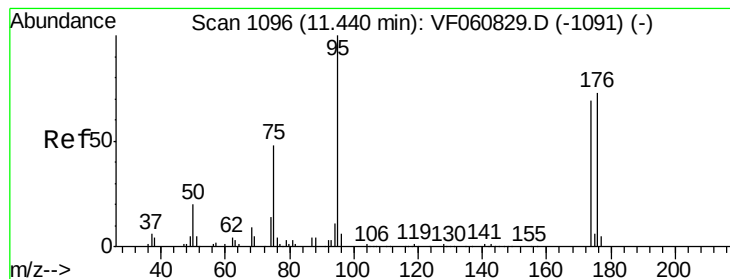
Tgt Ion: 43 Resp: 6115

Ion Ratio Lower Upper

43 100

58 35.9 25.6 76.6





#62

4-Bromofluorobenzene

Concen: 49.810 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VF060851.D

Acq: 28 Nov 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

VF1128SBL01

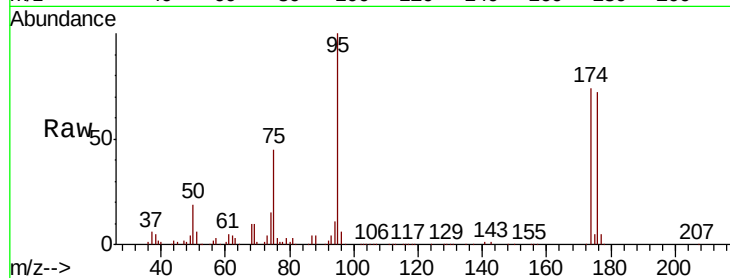
Tot Ion: 95 Resp: 209014

Ion Ratio Lower Upper

95 100

174 74.4 0.0 138.2

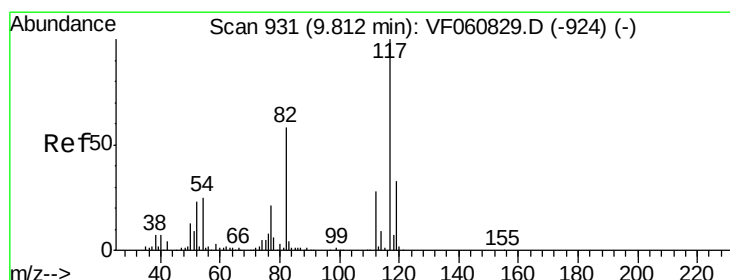
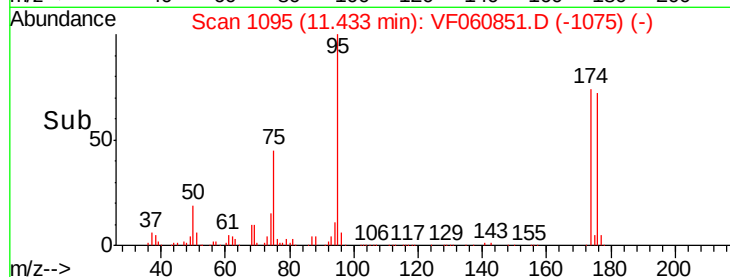
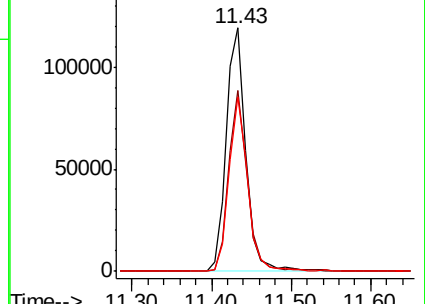
176 71.9 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF060829.D (-1091) (-)

Ion 174.00 (173.70 to 174.70): VF060829.D (-1091) (-)

Ion 176.00 (175.70 to 176.70): VF060829.D (-1091) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.80 min Scan# 929

Delta R.T. -0.02 min

Lab File: VF060851.D

Acq: 28 Nov 2018 11:46

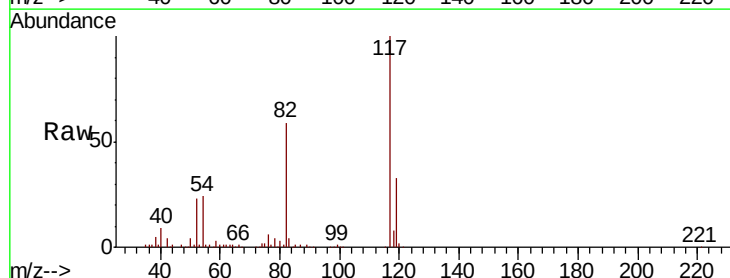
Tgt Ion: 117 Resp: 347588

Ion Ratio Lower Upper

117 100

82 59.3 46.6 69.8

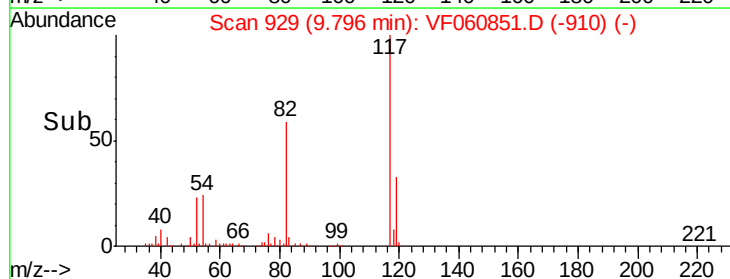
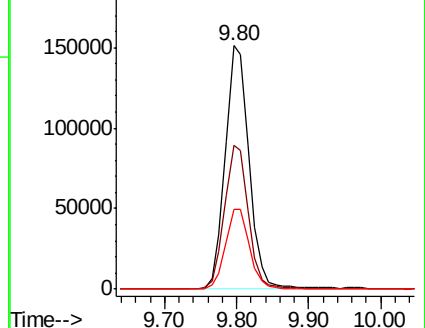
119 33.0 26.4 39.6

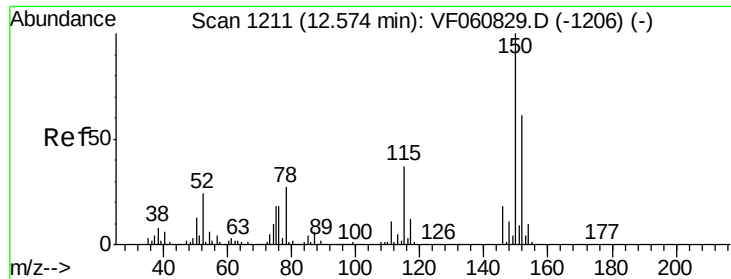


Abundance Ion 117.00 (116.70 to 117.70): VF060829.D (-924) (-)

Ion 82.00 (81.70 to 82.70): VF060829.D (-924) (-)

Ion 119.00 (118.70 to 119.70): VF060829.D (-924) (-)

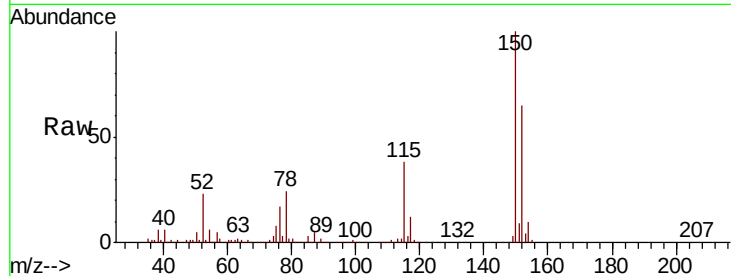




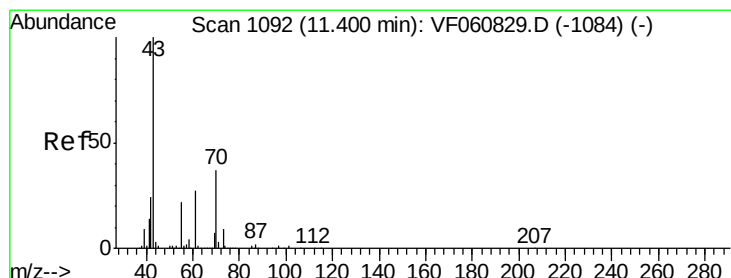
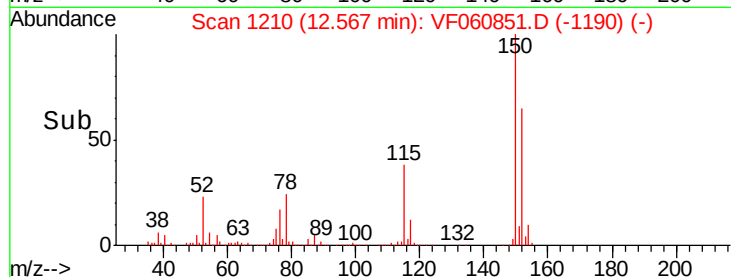
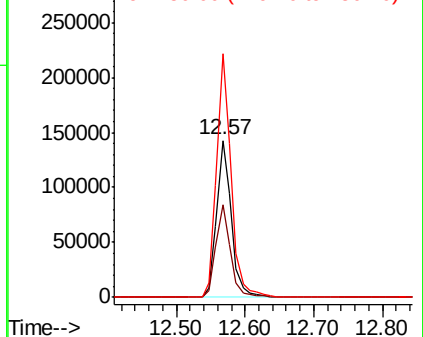
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF060851.D
 Acq: 28 Nov 2018 11:46

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1128SBL01

Tot Ion:152 Resp: 211782
 Ion Ratio Lower Upper
 152 100
 115 59.1 30.1 90.5
 150 155.0 0.0 327.6

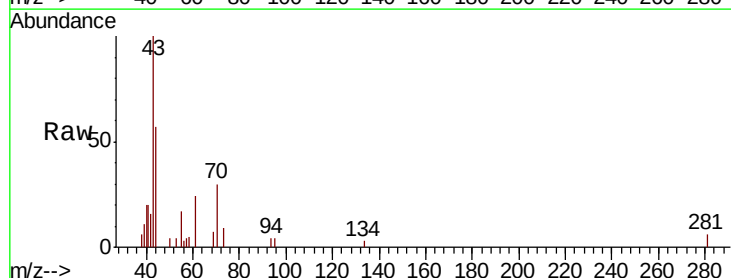


Abundance Ion 152.00 (151.70 to 152.70): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 150.00 (149.70 to 150.70): V

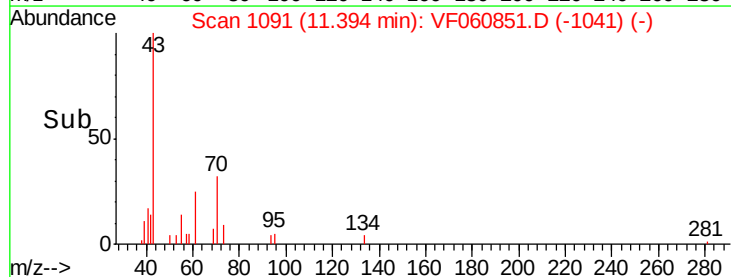
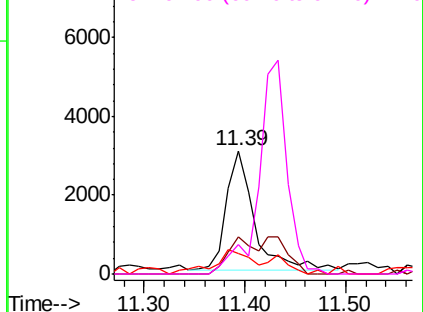


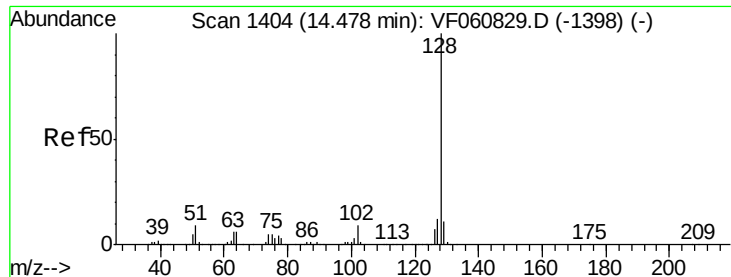
#74
 N-ethyl acetate
 Concen: 1.509 ug/l
 RT: 11.39 min Scan# 1091
 Delta R.T. -0.01 min
 Lab File: VF060851.D
 Acq: 28 Nov 2018 11:46

Tgt Ion: 43 Resp: 5831
 Ion Ratio Lower Upper
 43 100
 70 30.2 29.6 44.4
 55 16.7 17.2 25.8#
 61 23.8 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: 14.47 min Scan# 1403

Delta R.T. -0.01 min

Lab File: VF060851.D

Acq: 28 Nov 2018 11:46

Instrument :

MSVOA_F

ClientSampleId :

VF1128SBL01

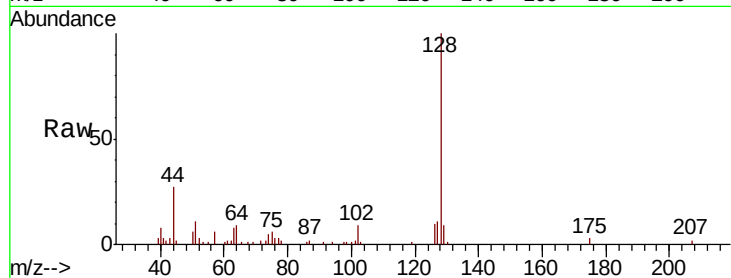
Tot Ion:128 Resp: 16539

Ion Ratio Lower Upper

128 100

127 10.7 9.9 14.9

129 9.1 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

