

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120318\
 Data File : VF060901.D
 Acq On : 3 Dec 2018 19:49
 Operator : VA/AP
 Sample : J5764-21RE
 Misc : 6.08g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-113018-A

Quant Time: Dec 04 03:12:19 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

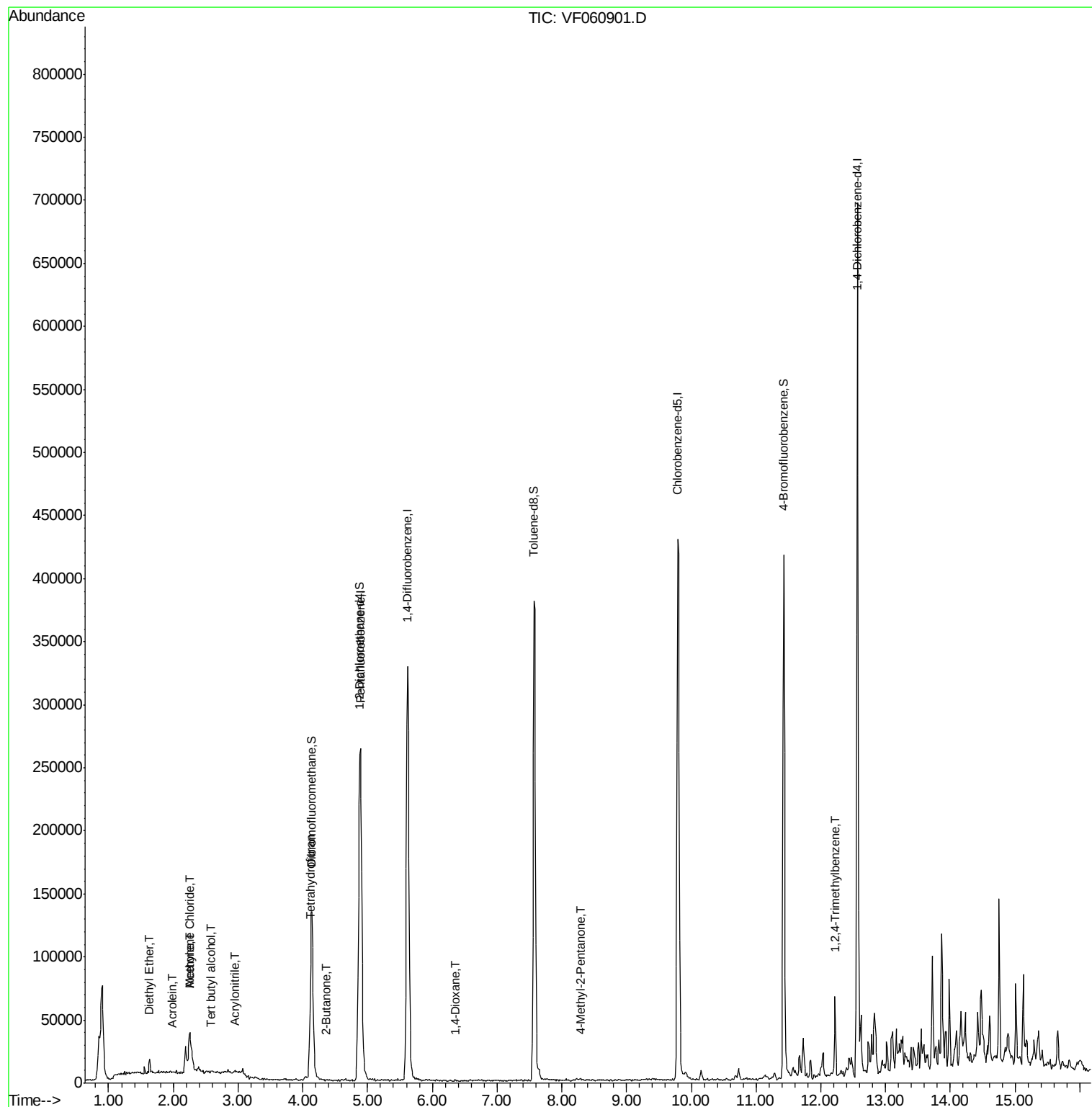
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	194358	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	359025	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.80	117	311876	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	167142	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.87	65	112751	49.24	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	98.48%	
35) Dibromofluoromethane	4.13	113	125818	44.17	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	88.34%	
50) Toluene-d8	7.57	98	327917	39.08	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	78.16%	
62) 4-Bromofluorobenzene	11.43	95	156053	40.92	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	81.84%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.63	74	755	1.387	ug/l	83
11) Tert butyl alcohol	2.59	59	269	2.866	ug/l #	1
13) Acrolein	1.98	56	548	6.162	ug/l #	39
15) Acrylonitrile	2.95	53	934	4.439	ug/l #	67
16) Acetone	2.25	43	12947	30.664	ug/l #	89
18) Methyl Acetate	2.35	43	440	Below Cal	#	61
20) Methylene Chloride	2.24	84	18521	11.957	ug/l	91
25) 2-Butanone	4.37	43	1162	1.591	ug/l #	57
29) Tetrahydrofuran	4.11	42	369	1.192	ug/l #	37
41) Methacrylonitrile	4.78	41	173	Below Cal	#	23
43) Isopropyl Acetate	6.95	43	234	Below Cal	#	49
49) 1,4-Dioxane	6.34	88	123	11.473	ug/l #	17
51) 4-Methyl-2-Pentanone	8.29	43	2230	1.494	ug/l #	66
84) 1,2,4-Trimethylbenzene	12.22	105	25155	2.351	ug/l	100
95) Naphthalene	14.47	128	10955	Below Cal	#	85

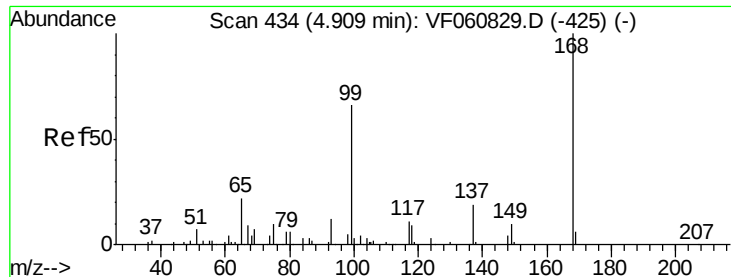
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060901.D

Acq: 3 Dec 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

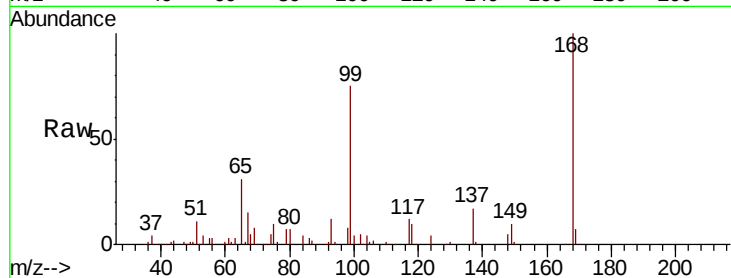
JC-02-113018-A

Tot Ion:168 Resp: 194358

Ion Ratio Lower Upper

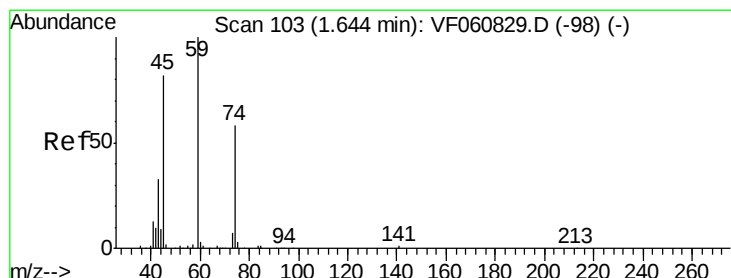
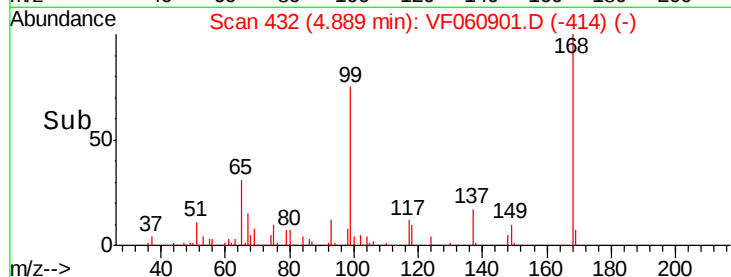
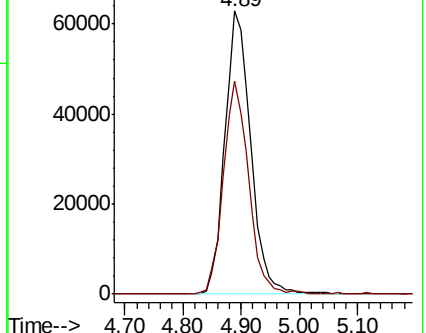
168 100

99 75.1 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 1.387 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF060901.D

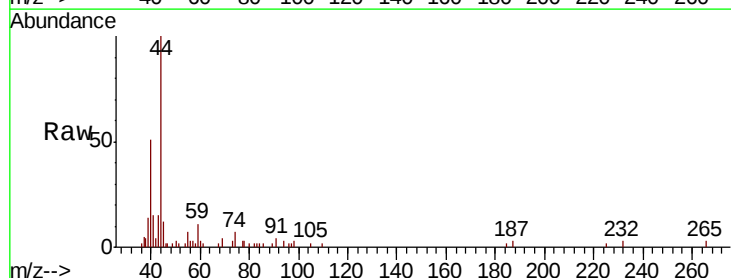
Acq: 3 Dec 2018 19:49

Tgt Ion: 74 Resp: 755

Ion Ratio Lower Upper

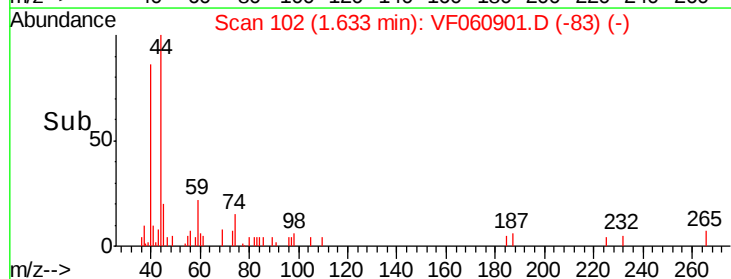
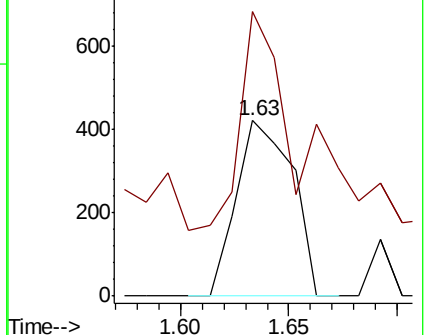
74 100

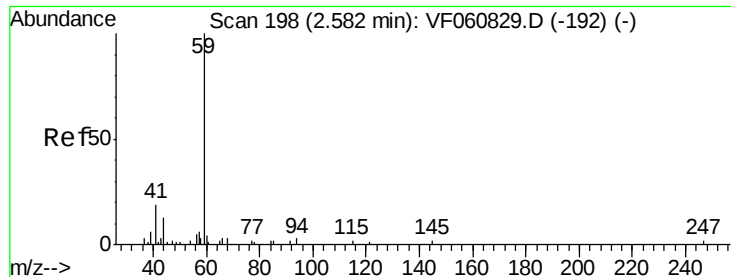
45 162.2 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

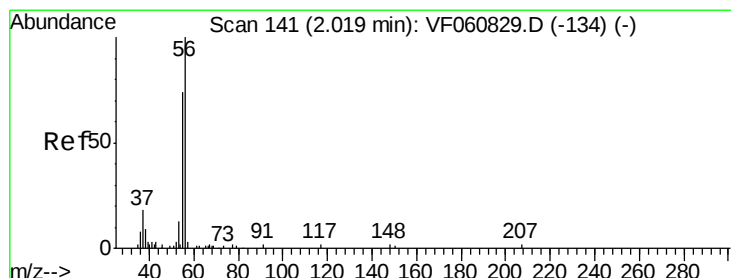
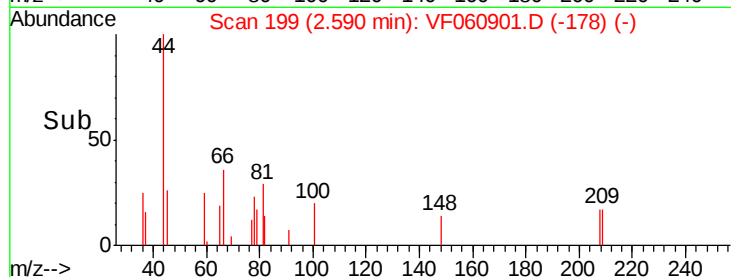
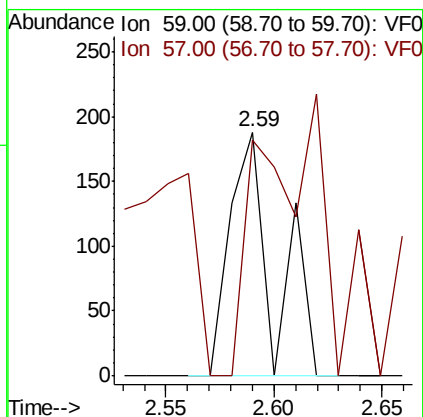
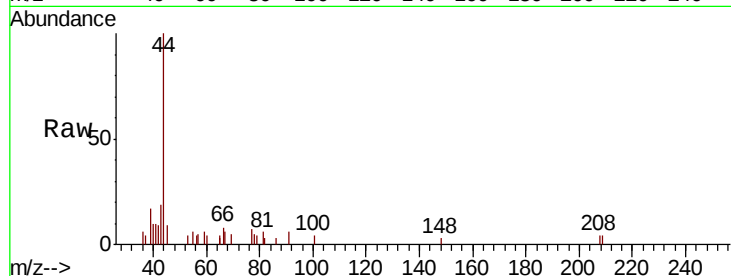




#11
Tert butyl alcohol
Concen: 2.866 ug/l
RT: 2.59 min Scan# 199
Delta R.T. 0.01 min
Lab File: VF060901.D
Acq: 3 Dec 2018 19:49

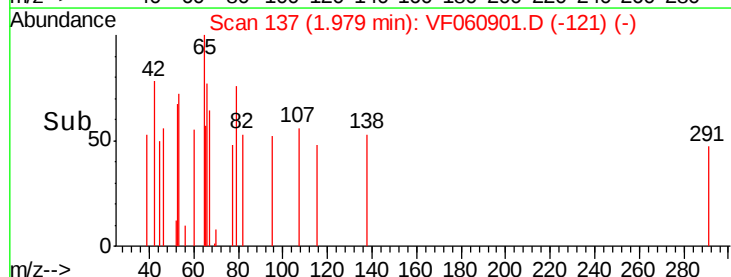
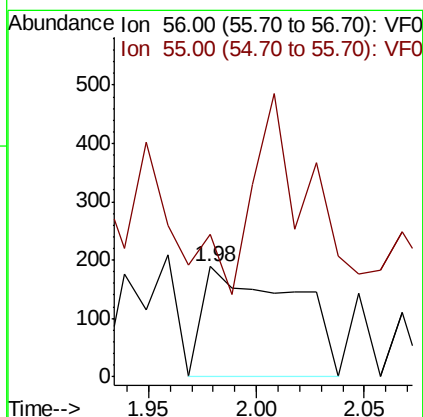
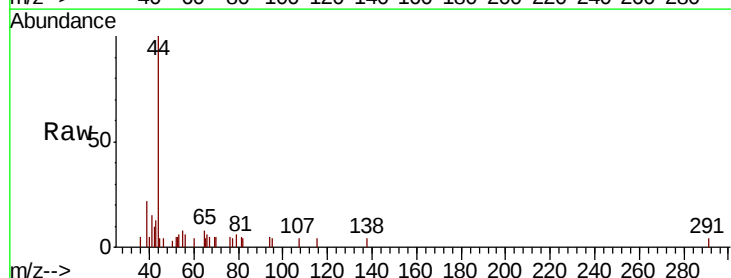
Instrument :
MSVOA_F
ClientSampleId :
JC-02-113018-A

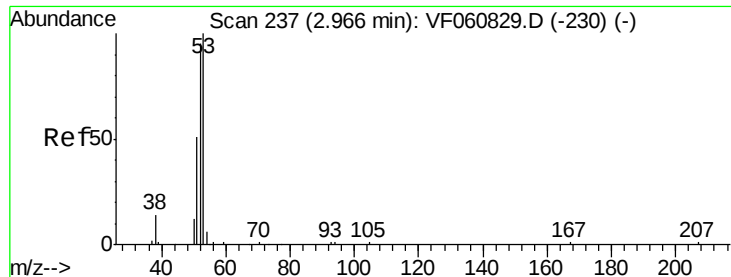
Tot Ion: 59 Resp: 269
Ion Ratio Lower Upper
59 100
57 96.8 12.7 19.1#



#13
Acrolein
Concen: 6.162 ug/l
RT: 1.98 min Scan# 137
Delta R.T. -0.04 min
Lab File: VF060901.D
Acq: 3 Dec 2018 19:49

Tgt Ion: 56 Resp: 548
Ion Ratio Lower Upper
56 100
55 129.1 61.2 91.8#





#15

Acrylonitrile

Concen: 4.439 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF060901.D

Acq: 3 Dec 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

JC-02-113018-A

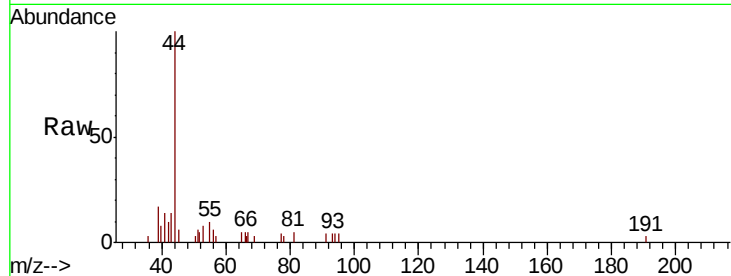
Tot Ion: 53 Resp: 934

Ion Ratio Lower Upper

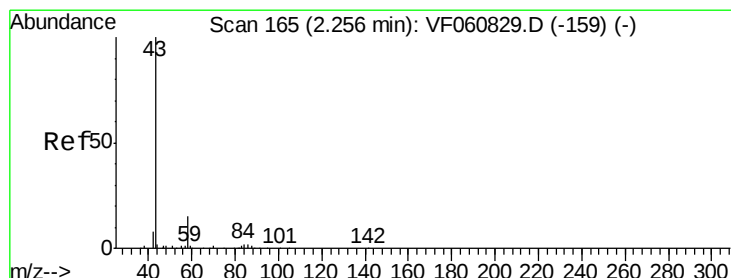
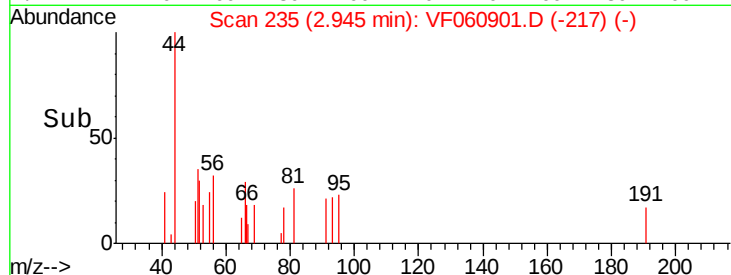
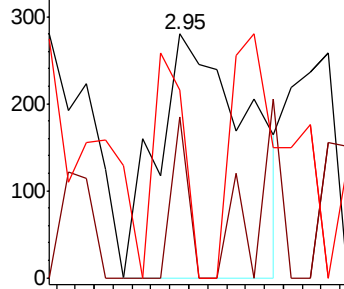
53 100

52 66.1 76.5 114.7#

51 77.1 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



#16

Acetone

Concen: 30.664 ug/l

RT: 2.25 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF060901.D

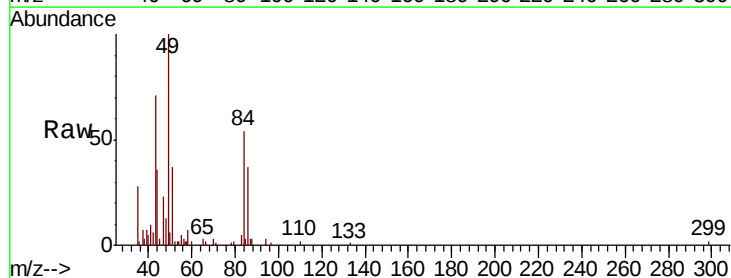
Acq: 3 Dec 2018 19:49

Tgt Ion: 43 Resp: 12947

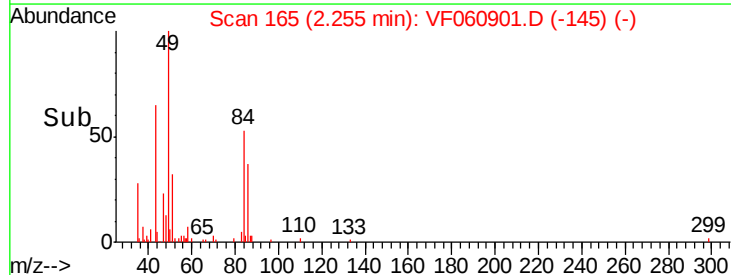
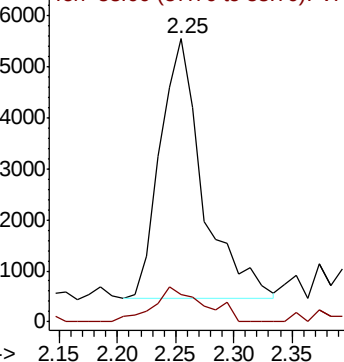
Ion Ratio Lower Upper

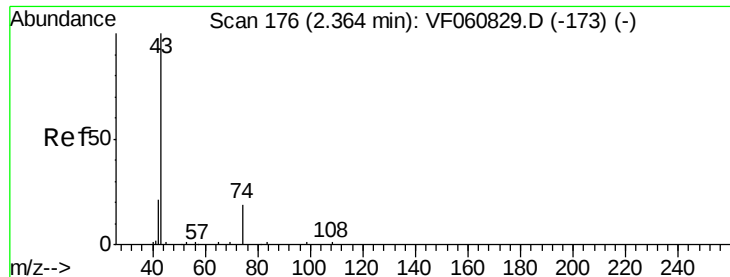
43 100

58 9.6 11.4 17.2#



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

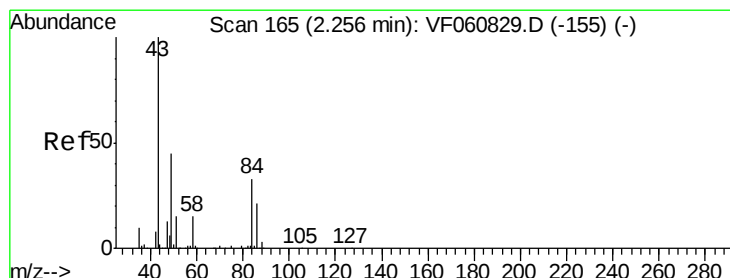
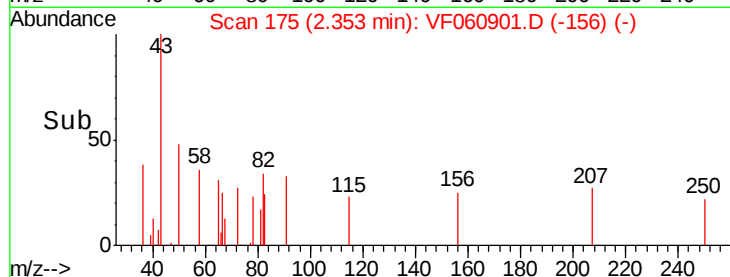
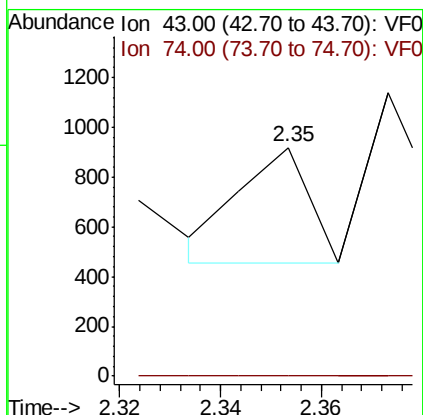
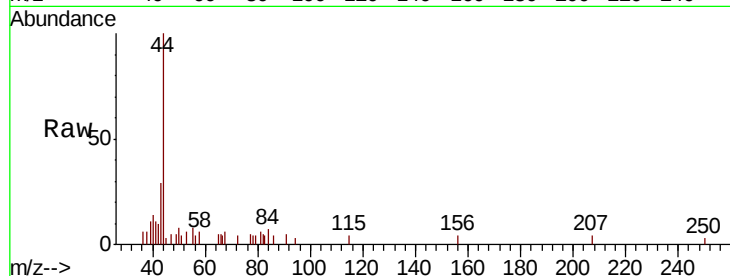




#18
Methyl Acetate
Concen: Below Cal
RT: 2.35 min Scan# 175
Delta R.T. -0.01 min
Lab File: VF060901.D
Acq: 3 Dec 2018 19:49

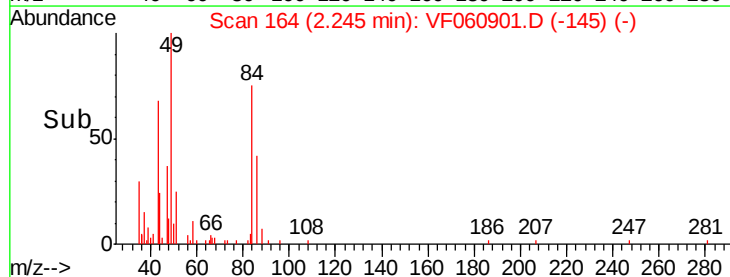
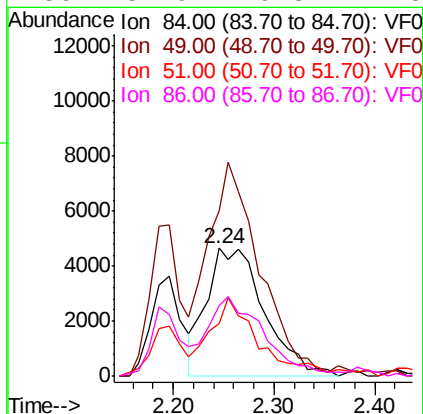
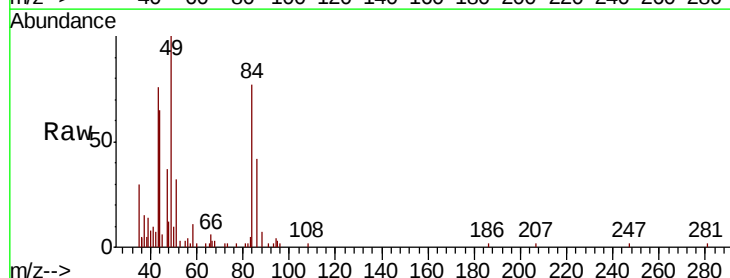
Instrument :
MSVOA_F
ClientSampleId :
JC-02-113018-A

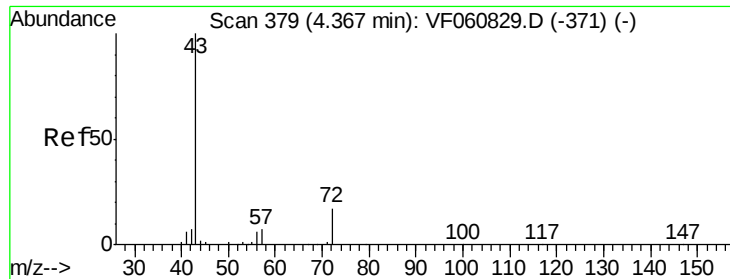
Tot Ion: 43 Resp: 440
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#20
Methylene Chloride
Concen: 11.957 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060901.D
Acq: 3 Dec 2018 19:49

Tgt Ion: 84 Resp: 18521
Ion Ratio Lower Upper
84 100
49 129.5 111.3 166.9
51 41.4 38.0 57.0
86 54.9 49.8 74.8





#25

2-Butanone

Concen: 1.591 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF060901.D

Acq: 3 Dec 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

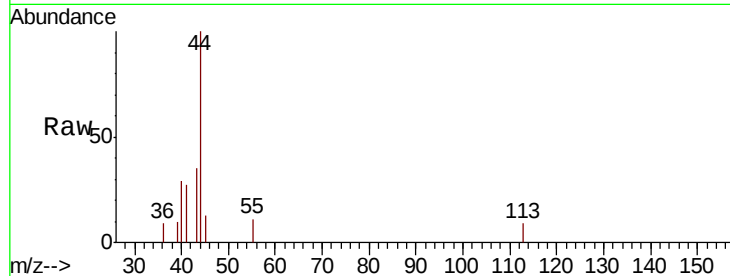
JC-02-113018-A

Tot Ion: 43 Resp: 1162

Ion Ratio Lower Upper

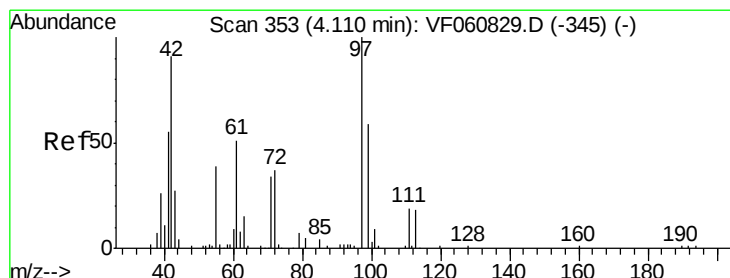
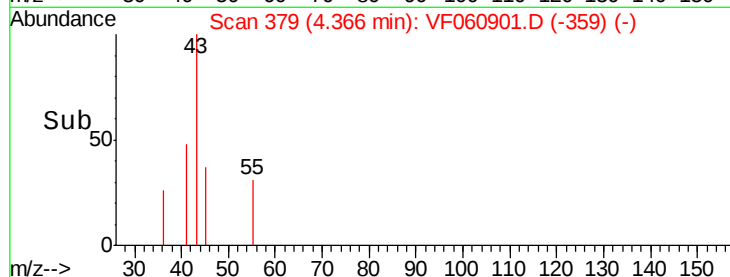
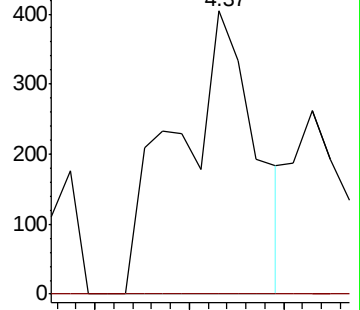
43 100

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: 1.192 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF060901.D

Acq: 3 Dec 2018 19:49

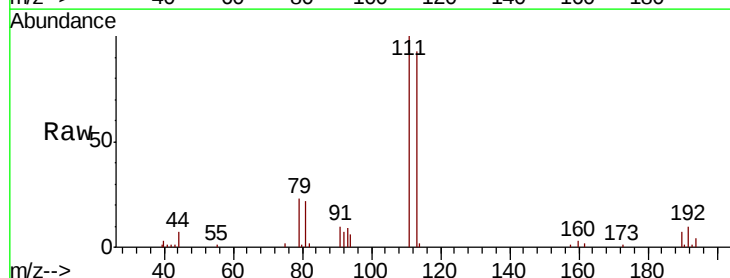
Tgt Ion: 42 Resp: 369

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

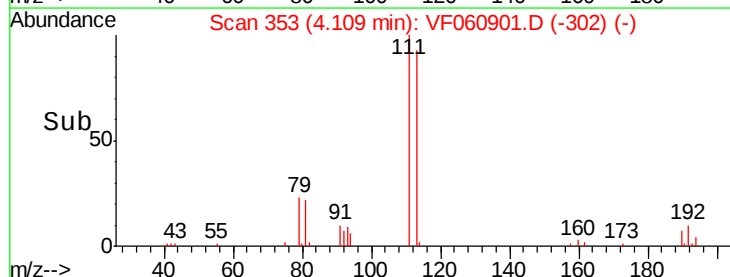
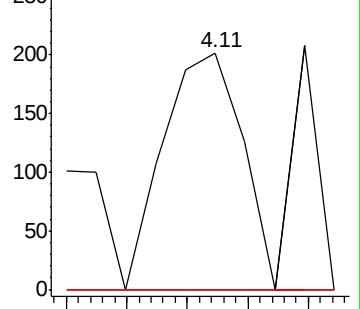
71 0.0 28.7 43.1#

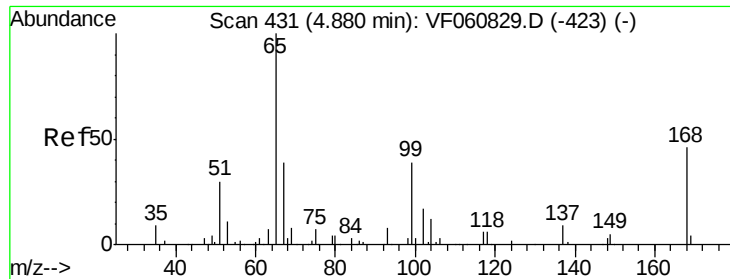


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 49.245 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF060901.D

Acq: 3 Dec 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

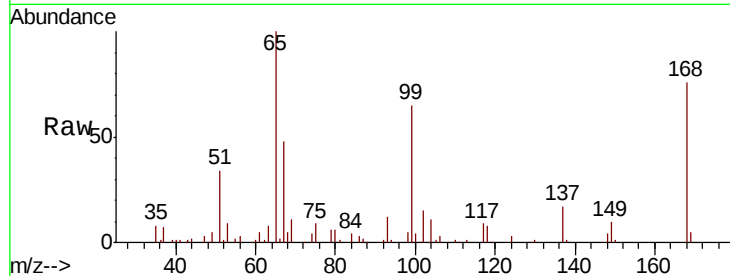
JC-02-113018-A

Tot Ion: 65 Resp: 112751

Ion Ratio Lower Upper

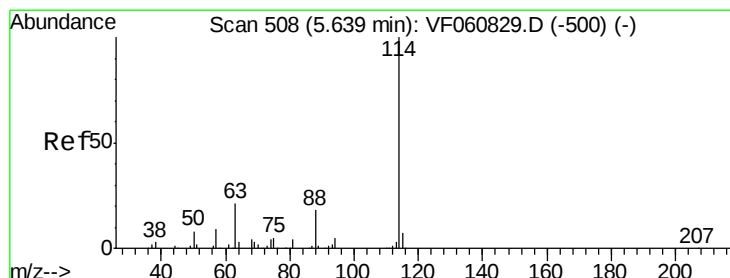
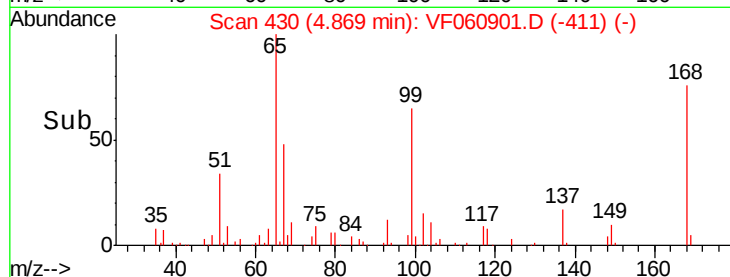
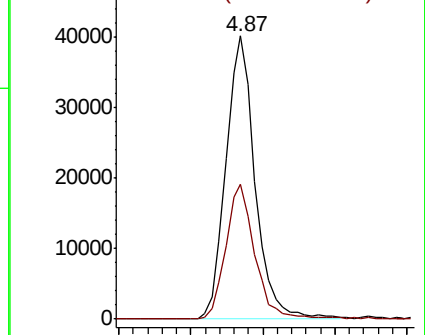
65 100

67 47.8 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: VF060901.D

Acq: 3 Dec 2018 19:49

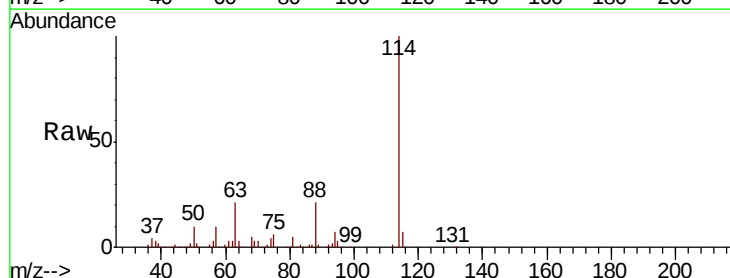
Tgt Ion: 114 Resp: 359025

Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.6

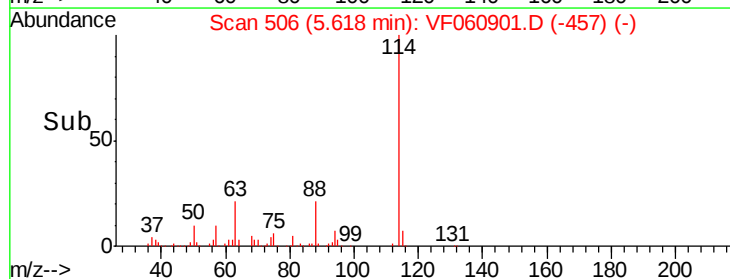
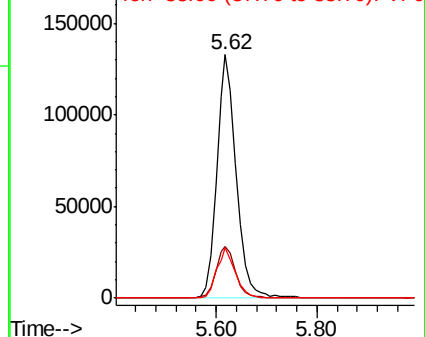
88 20.8 0.0 36.6

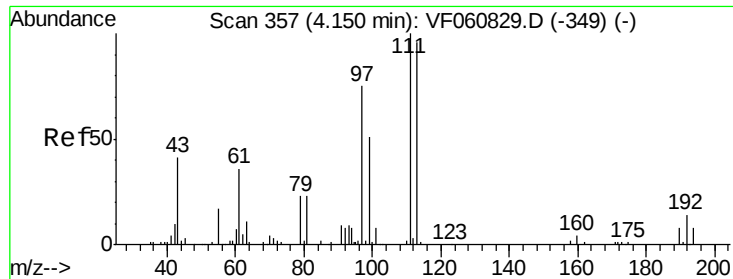


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

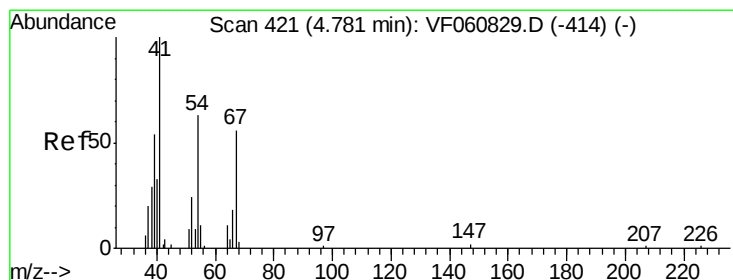
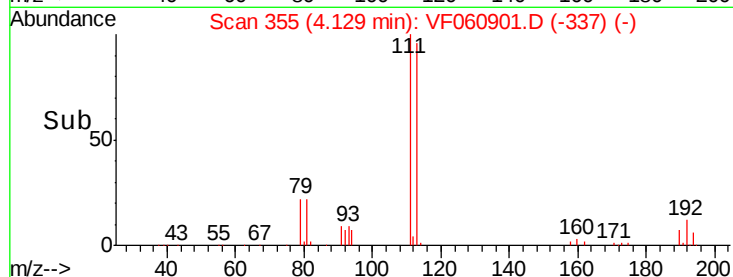
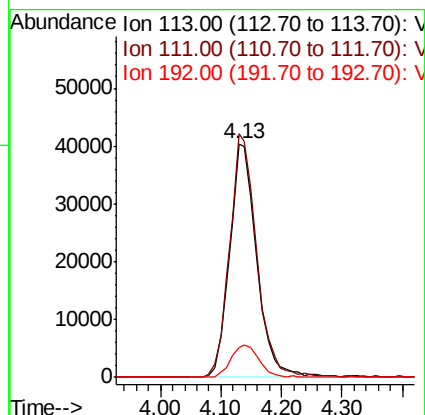
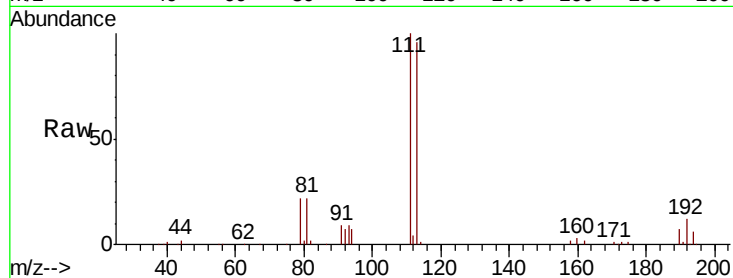




#35
Dibromofluoromethane
Concen: 44.174 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.02 min
Lab File: VF060901.D
Acq: 3 Dec 2018 19:49

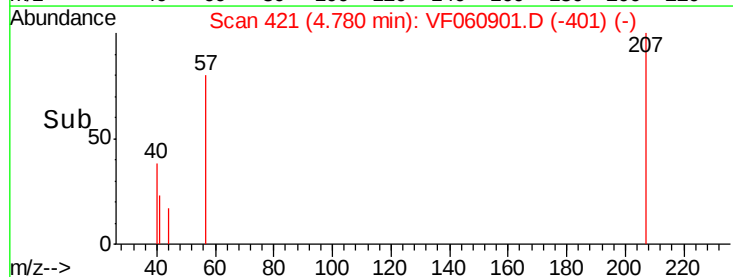
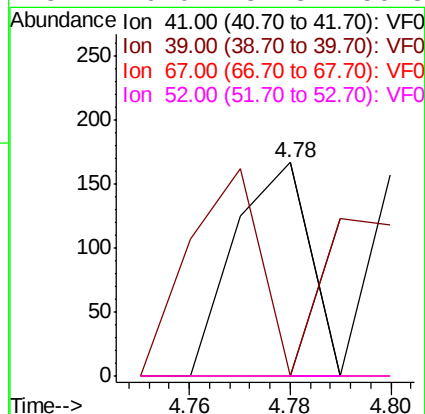
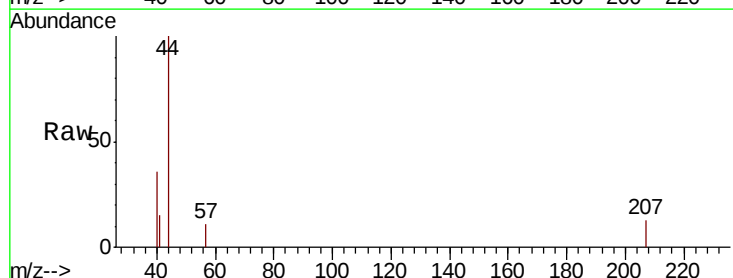
Instrument :
MSVOA_F
ClientSampleId :
JC-02-113018-A

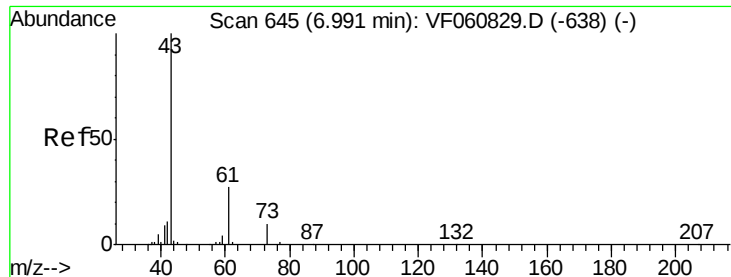
Tot Ion:113 Resp: 125818
Ion Ratio Lower Upper
113 100
111 104.2 83.0 124.6
192 13.3 12.3 18.5



#41
Methacrylonitrile
Concen: Below Cal
RT: 4.78 min Scan# 421
Delta R.T. -0.00 min
Lab File: VF060901.D
Acq: 3 Dec 2018 19:49

Tgt Ion: 41 Resp: 173
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#



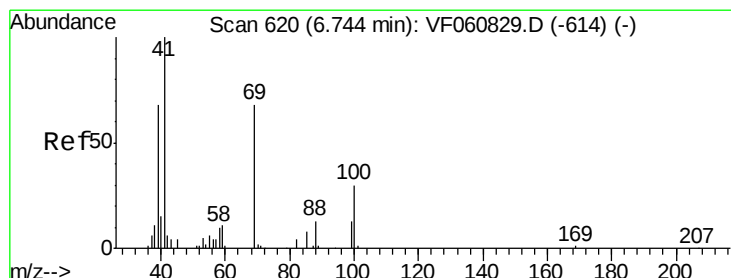
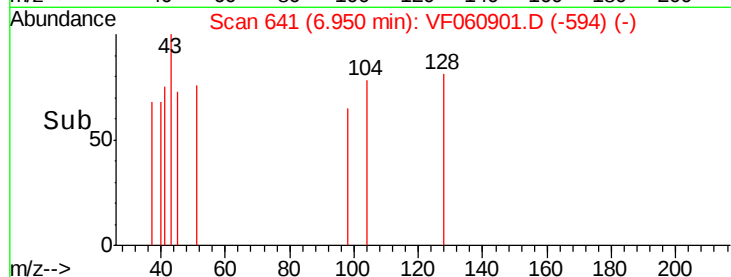
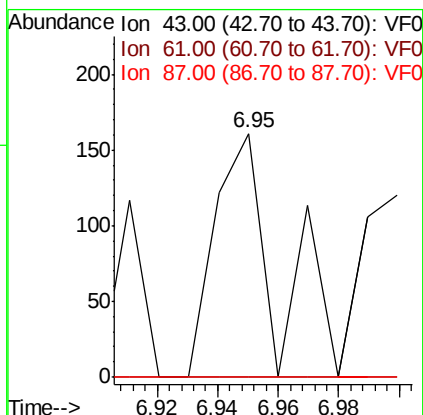
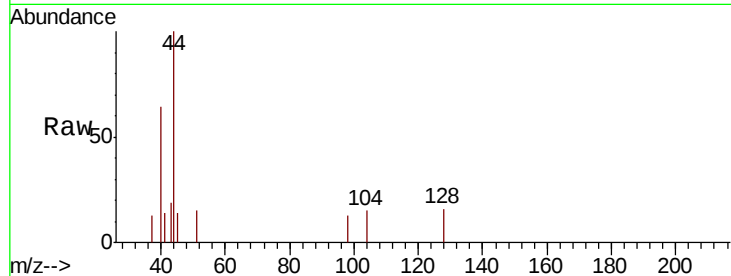


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.95 min Scan# 641
 Delta R.T. -0.04 min
 Lab File: VF060901.D
 Acq: 3 Dec 2018 19:49

Instrument :
 MSVOA_F
 ClientSampleID :
 JC-02-113018-A

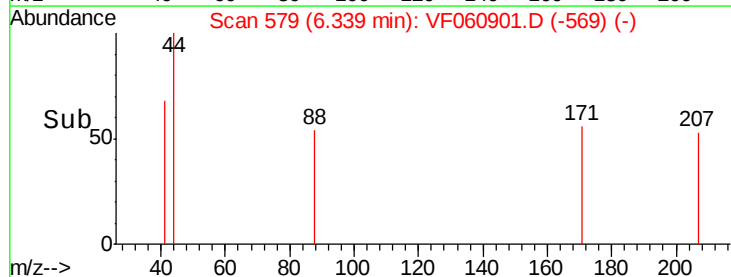
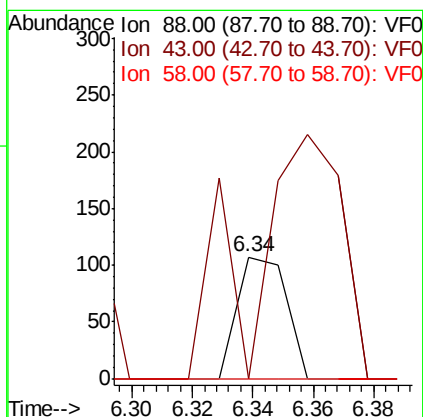
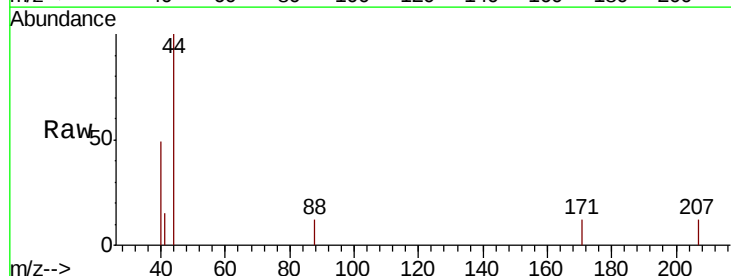
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#

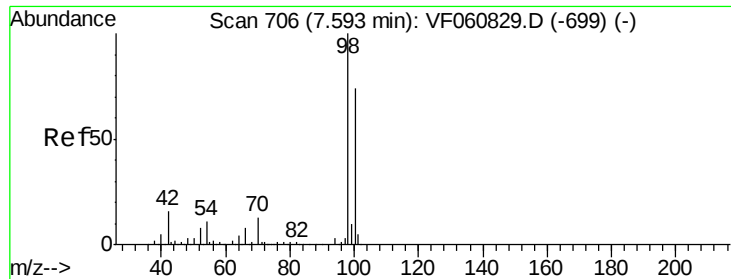


#49

1,4-Dioxane
 Concen: 11.473 ug/l
 RT: 6.34 min Scan# 579
 Delta R.T. -0.41 min
 Lab File: VF060901.D
 Acq: 3 Dec 2018 19:49

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





#50

Toluene-d8

Concen: 39.084 ug/l

RT: 7.57 min Scan# 704

Delta R.T. -0.02 min

Lab File: VF060901.D

Acq: 3 Dec 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

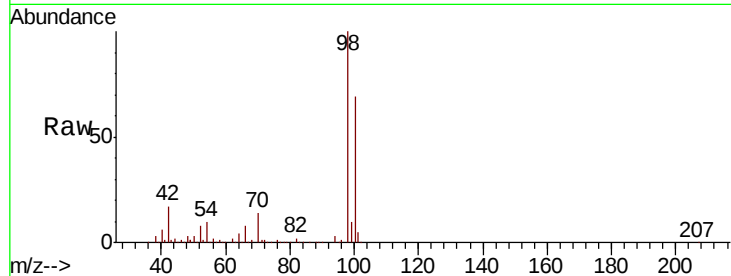
JC-02-113018-A

Tot Ion: 98 Resp: 327917

Ion Ratio Lower Upper

98 100

100 68.6 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.57

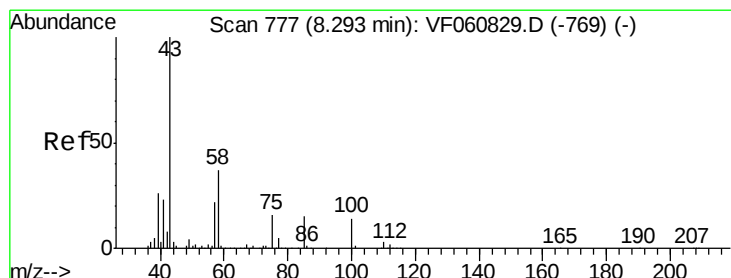
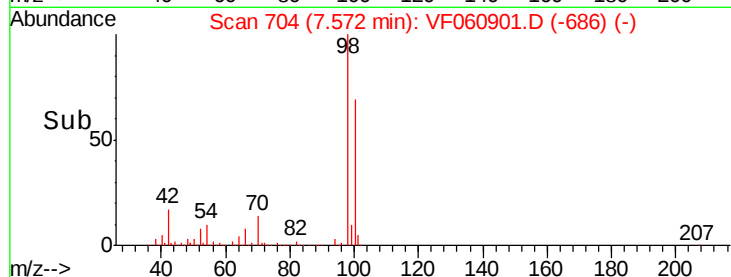
150000

100000

50000

0

Time--> 7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 1.494 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF060901.D

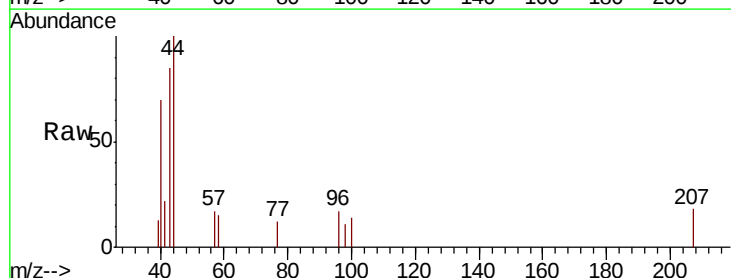
Acq: 3 Dec 2018 19:49

Tgt Ion: 43 Resp: 2230

Ion Ratio Lower Upper

43 100

58 17.1 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

800

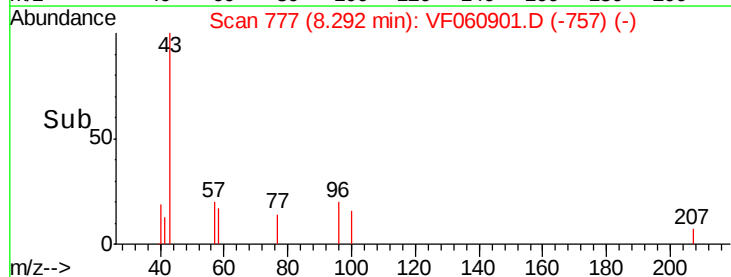
600

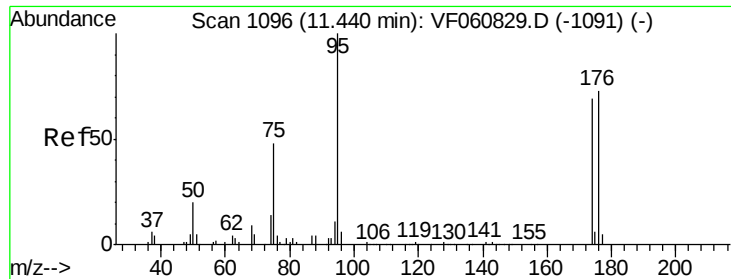
400

200

0

Time--> 8.15 8.20 8.25 8.30 8.35

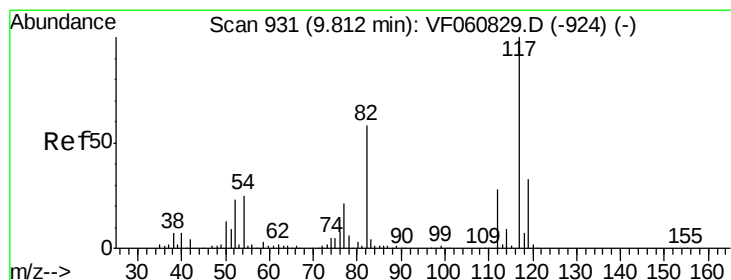
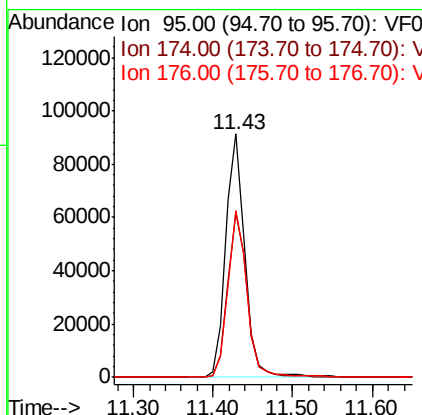
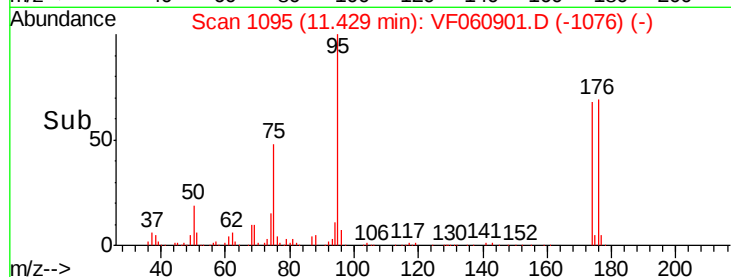
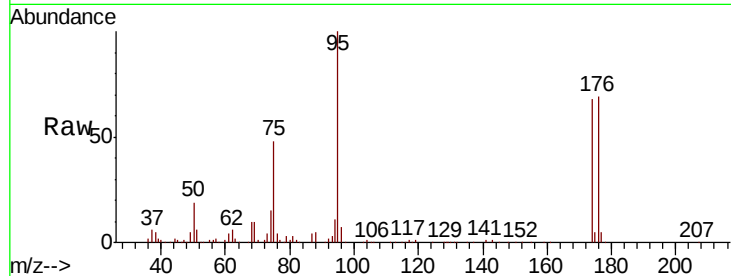




#62
4-Bromofluorobenzene
Concen: 40.925 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VF060901.D
Acq: 3 Dec 2018 19:49

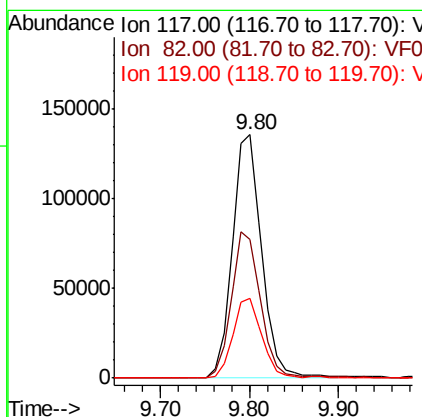
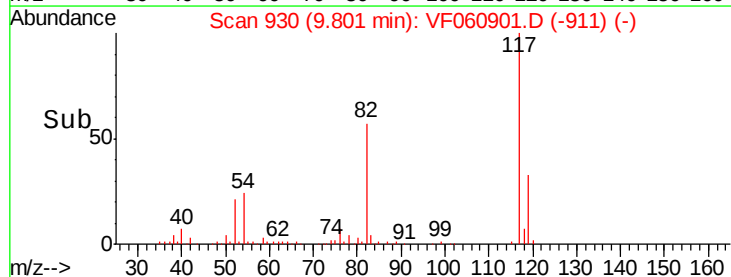
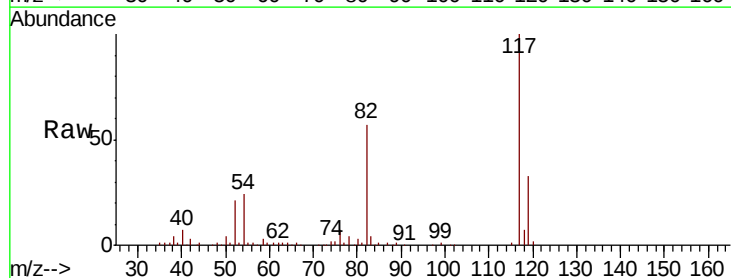
Instrument :
MSVOA_F
ClientSampleId :
JC-02-113018-A

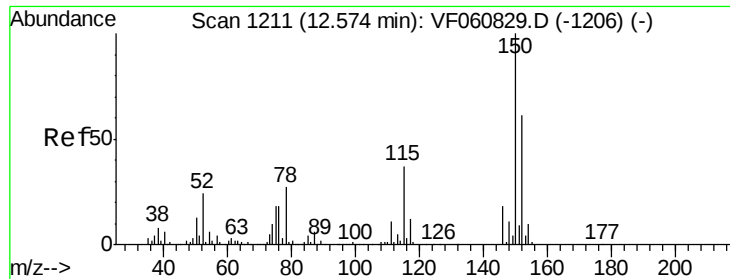
Tot Ion: 95 Resp: 156053
Ion Ratio Lower Upper
95 100
174 67.7 0.0 138.2
176 68.7 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF060901.D
Acq: 3 Dec 2018 19:49

Tgt Ion: 117 Resp: 311876
Ion Ratio Lower Upper
117 100
82 56.8 46.6 69.8
119 32.9 26.4 39.6



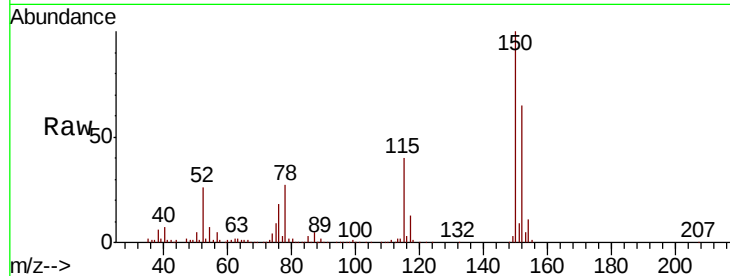


#72

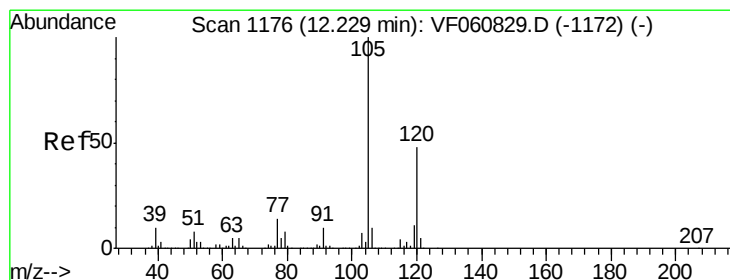
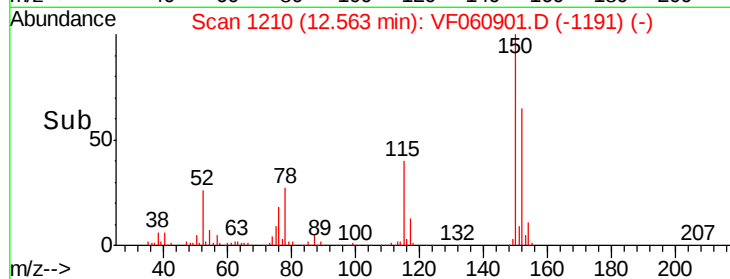
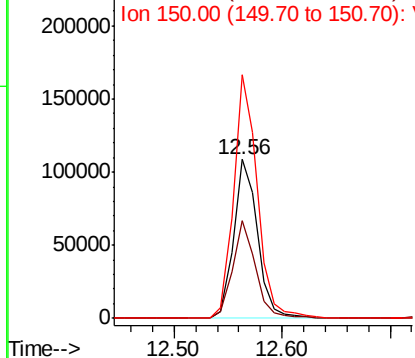
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. -0.01 min
Lab File: VF060901.D
Acq: 3 Dec 2018 19:49

Instrument :
MSVOA_F
ClientSampleId :
JC-02-113018-A

Tot Ion:152 Resp: 167142
Ion Ratio Lower Upper
152 100
115 61.6 30.1 90.5
150 153.3 0.0 327.6



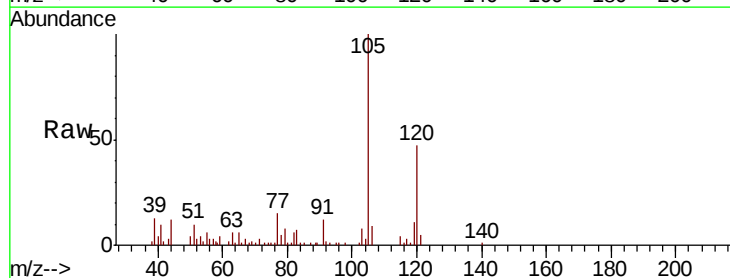
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



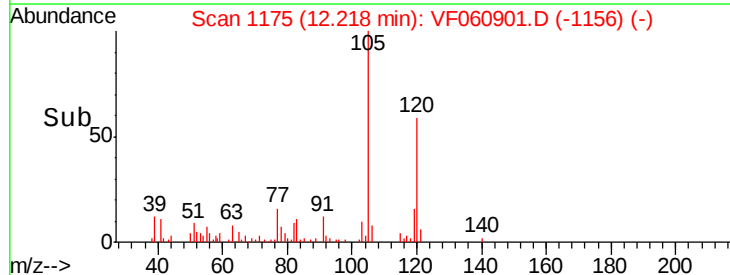
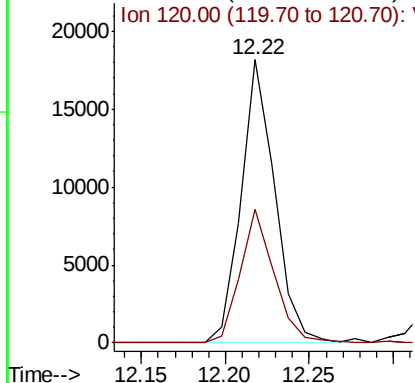
#84

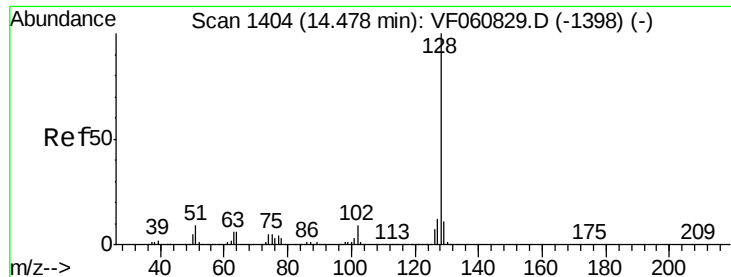
1,2,4-Trimethylbenzene
Concen: 2.351 ug/l
RT: 12.22 min Scan# 1175
Delta R.T. -0.01 min
Lab File: VF060901.D
Acq: 3 Dec 2018 19:49

Tgt Ion:105 Resp: 25155
Ion Ratio Lower Upper
105 100
120 47.4 23.8 71.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

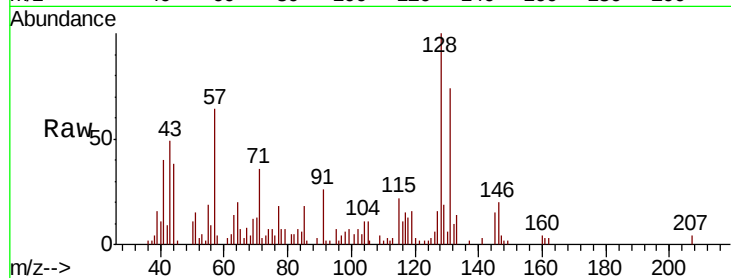




#95
Naphthalene
Concen: Below Cal
RT: 14.47 min Scan# 1403
Delta R.T. -0.01 min
Lab File: VF060901.D
Acq: 3 Dec 2018 19:49

Instrument :
MSVOA_F
ClientSampleId :
JC-02-113018-A

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.2	9.9	14.9#
129	19.4	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

