

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120318\
 Data File : VF060904.D
 Acq On : 3 Dec 2018 21:15
 Operator : VA/AP
 Sample : J6168-05
 Misc : 4.92g/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S1

Quant Time: Dec 04 03:12:57 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	171350	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.61	114	306173	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.79	117	247720	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	95038	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	119609	59.25	ug/l	-0.02
Spiked Amount			Recovery	=	118.50%	
35) Dibromofluoromethane	4.13	113	129958	53.50	ug/l	-0.02
Spiked Amount			Recovery	=	107.00%	
50) Toluene-d8	7.57	98	303571	42.43	ug/l	-0.02
Spiked Amount			Recovery	=	84.86%	
62) 4-Bromofluorobenzene	11.43	95	126806	39.00	ug/l	0.00
Spiked Amount			Recovery	=	78.00%	

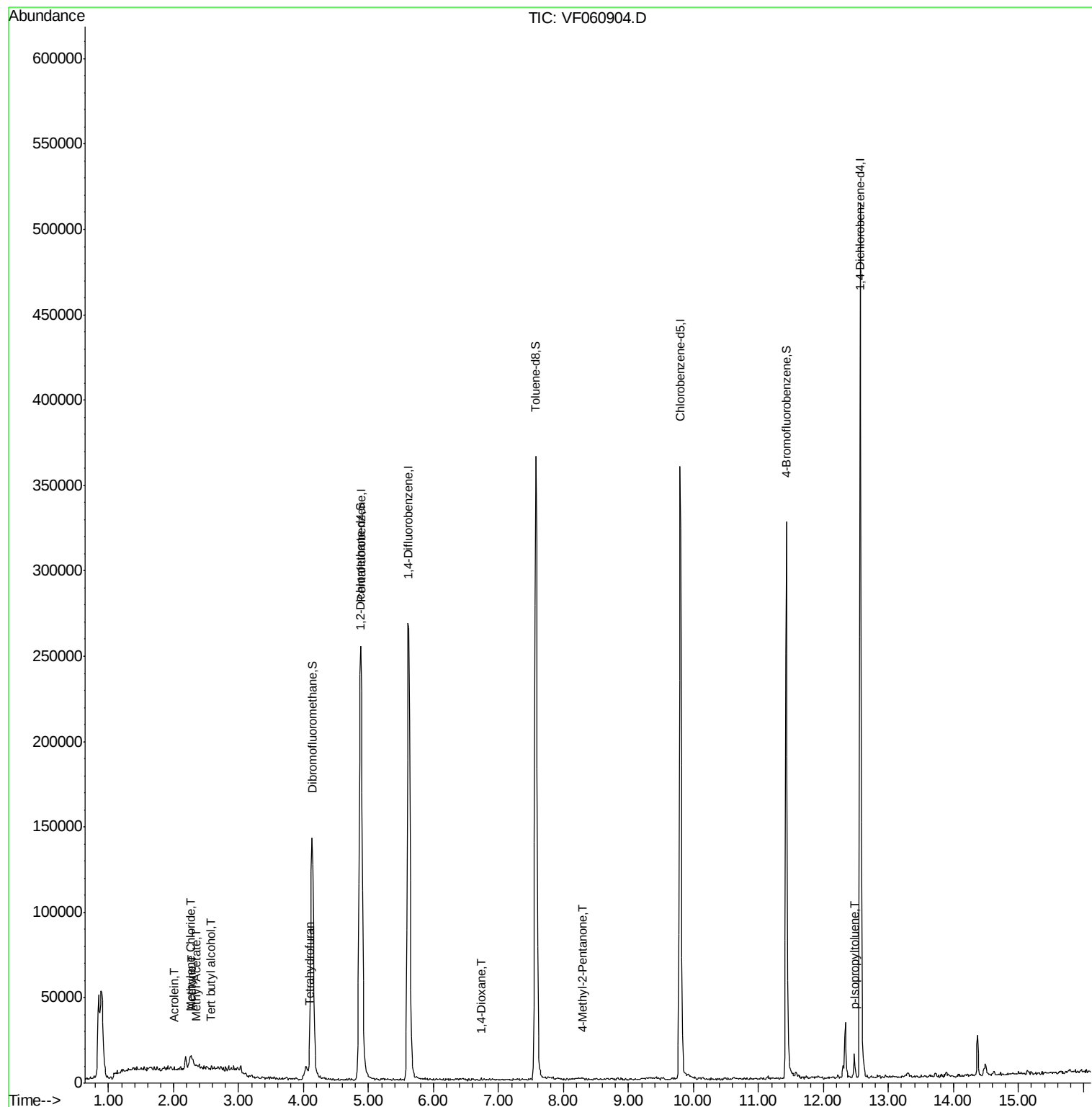
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	515	6.224	ug/l #	2
13) Acrolein	2.01	56	504	6.429	ug/l #	57
16) Acetone	2.27	43	768	2.063	ug/l #	65
18) Methyl Acetate	2.36	43	6251	8.644	ug/l #	91
20) Methylene Chloride	2.26	84	5821	4.263	ug/l	93
29) Tetrahydrofuran	4.08	42	291	1.066	ug/l #	55
41) Methacrylonitrile	4.78	41	340	Below Cal	#	23
43) Isopropyl Acetate	6.96	43	207	Below Cal	#	49
49) 1,4-Dioxane	6.73	88	78	8.532	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	1542	1.212	ug/l #	74
86) p-Isopropyltoluene	12.48	119	7681	1.078	ug/l	96
95) Naphthalene	14.47	128	2246	Below Cal	#	70

(#) = 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: VF060904.D

Acq: 3 Dec 2018 21:15

Instrument :

MSVOA_F

ClientSampled :

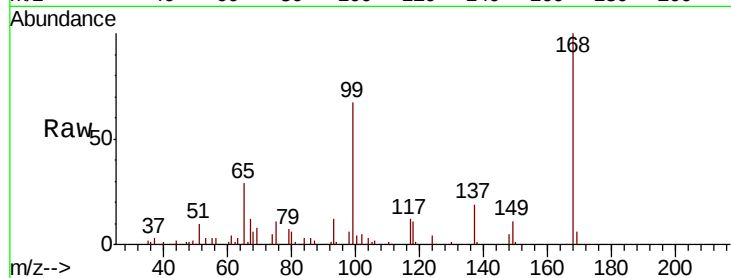
S1

Tot Ion:168 Resp: 171350

Ion Ratio Lower Upper

168 100

99 66.5 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

60000

50000

40000

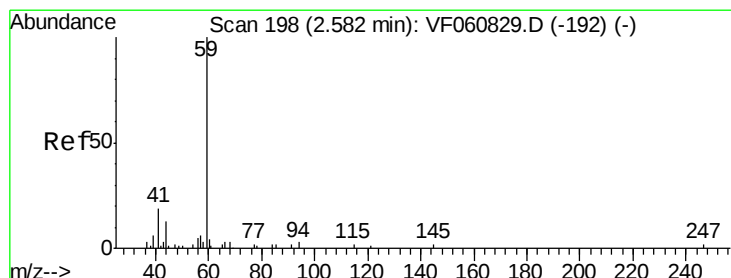
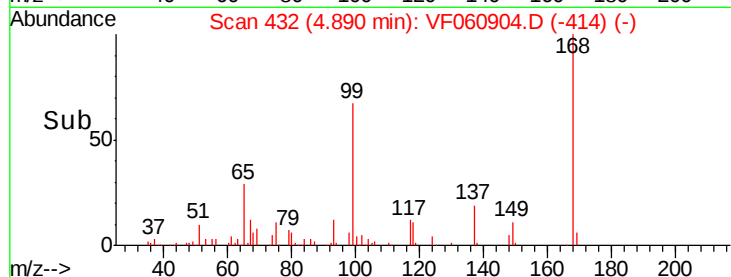
30000

20000

10000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 6.224 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.00 min

Lab File: VF060904.D

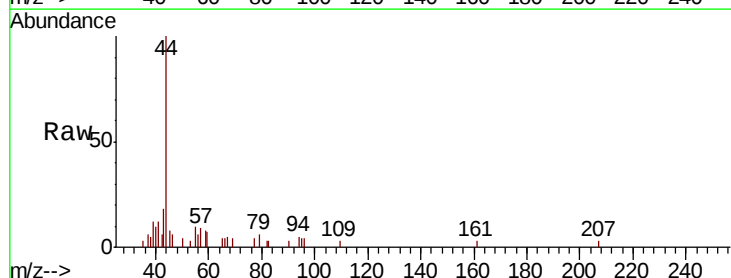
Acq: 3 Dec 2018 21:15

Tgt Ion: 59 Resp: 515

Ion Ratio Lower Upper

59 100

57 57.2 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.58

600

500

400

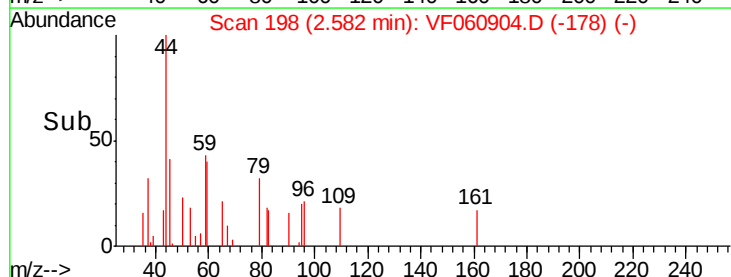
300

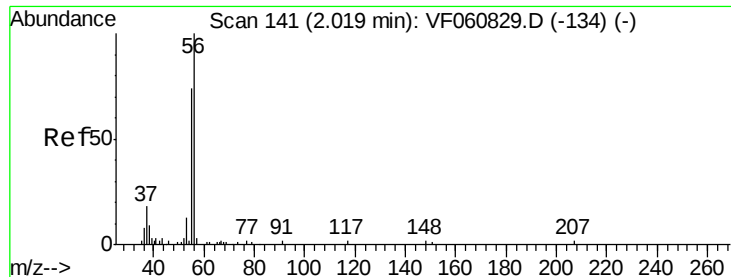
200

100

0

Time--> 2.50 2.55 2.60





#13

Acrolein

Concen: 6.429 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF060904.D

Acq: 3 Dec 2018 21:15

Instrument :

MSVOA_F

ClientSampled :

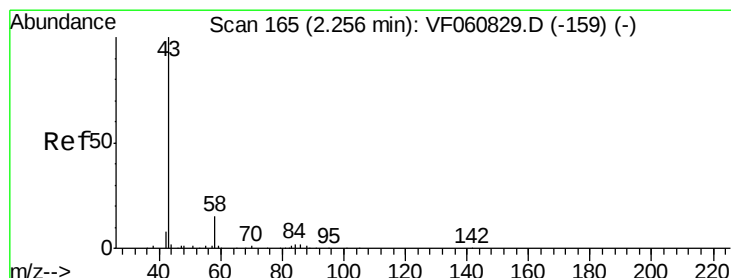
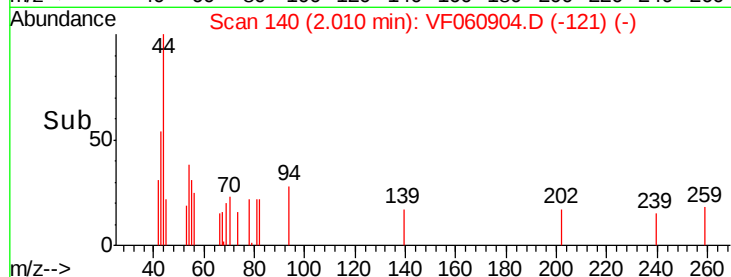
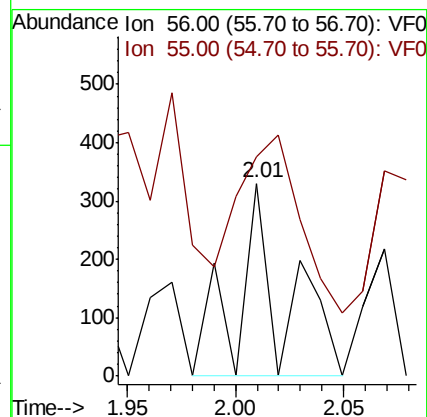
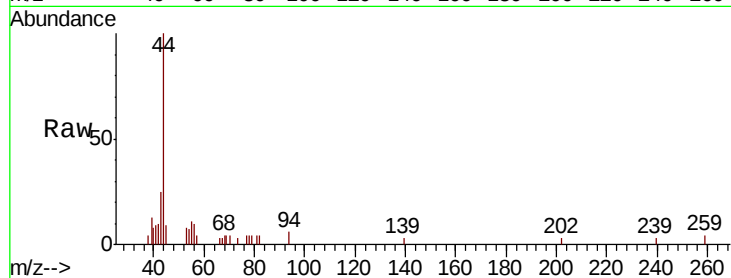
S1

Tot Ion: 56 Resp: 504

Ion Ratio Lower Upper

56 100

55 113.6 61.2 91.8#



#16

Acetone

Concen: 2.063 ug/l

RT: 2.27 min Scan# 166

Delta R.T. 0.01 min

Lab File: VF060904.D

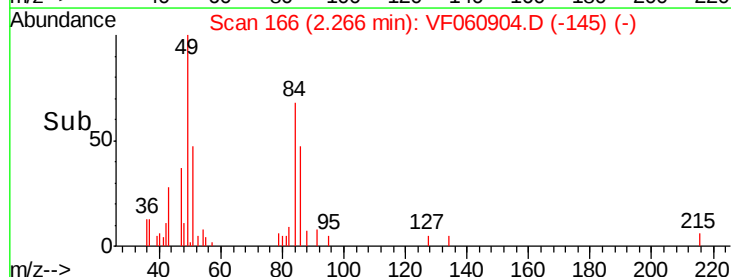
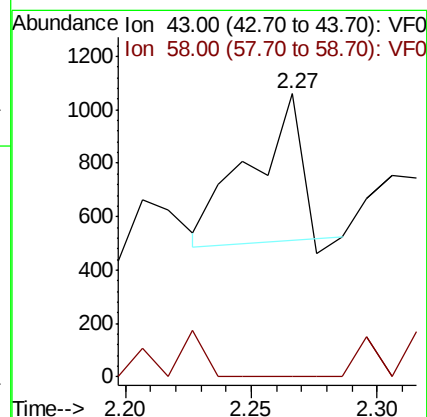
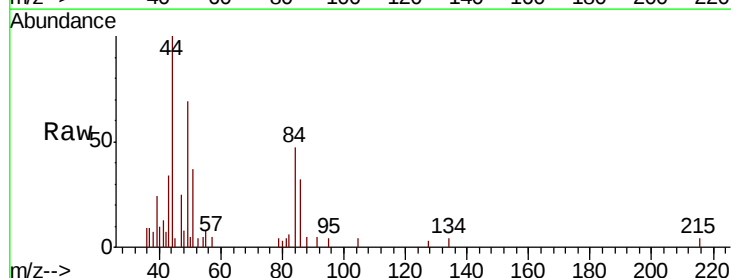
Acq: 3 Dec 2018 21:15

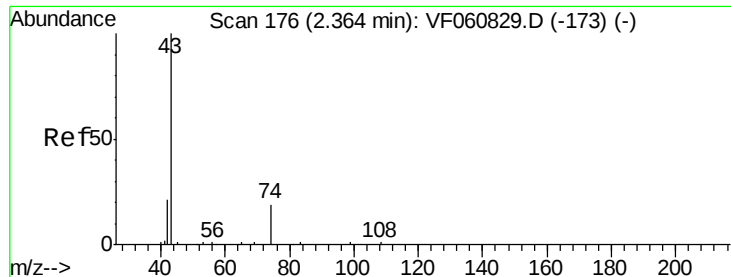
Tgt Ion: 43 Resp: 768

Ion Ratio Lower Upper

43 100

58 0.0 11.4 17.2#

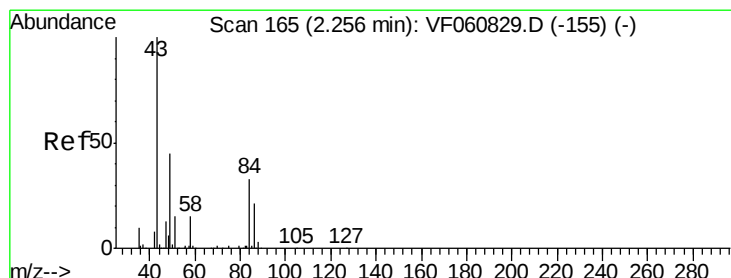
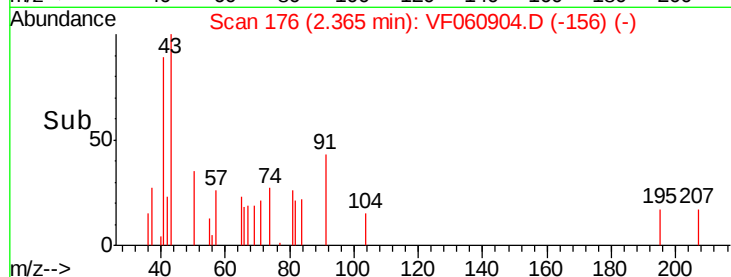
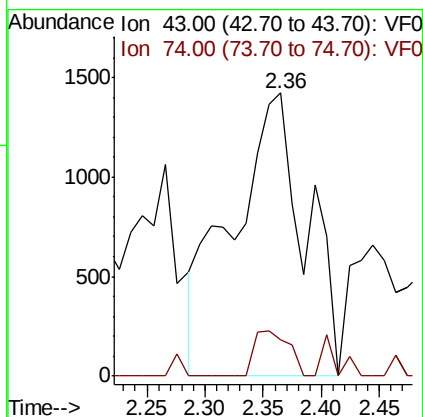
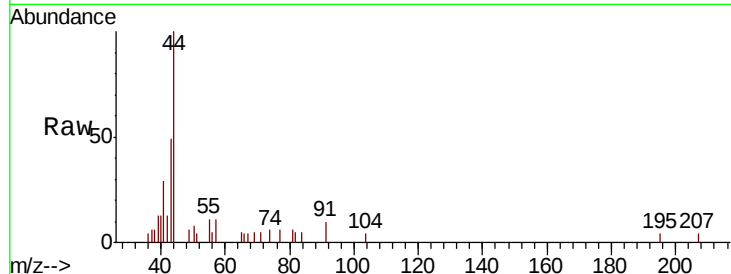




#18
Methyl Acetate
Concen: 8.644 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF060904.D
Acq: 3 Dec 2018 21:15

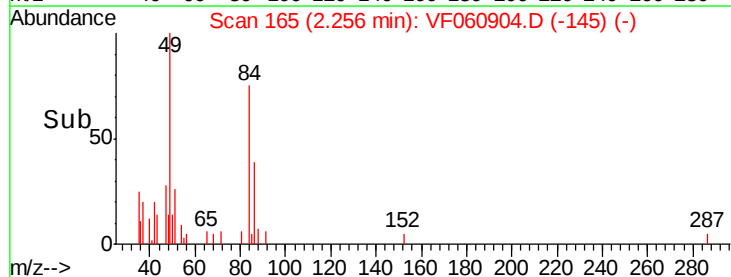
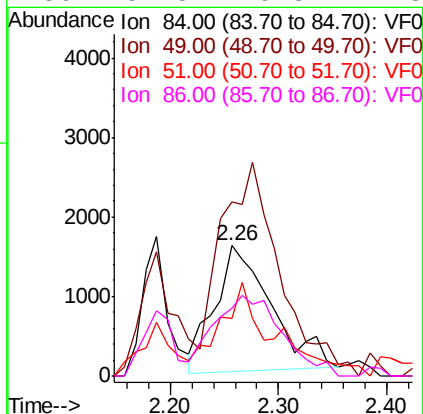
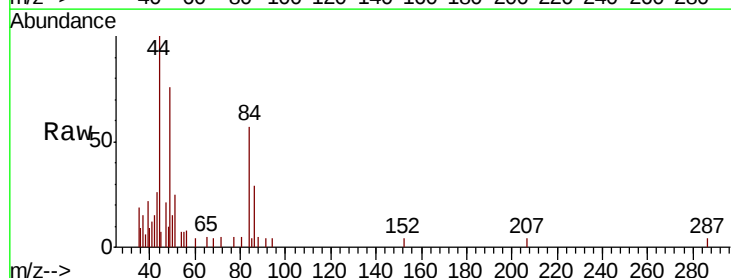
Instrument :
MSVOA_F
ClientSampled :
S1

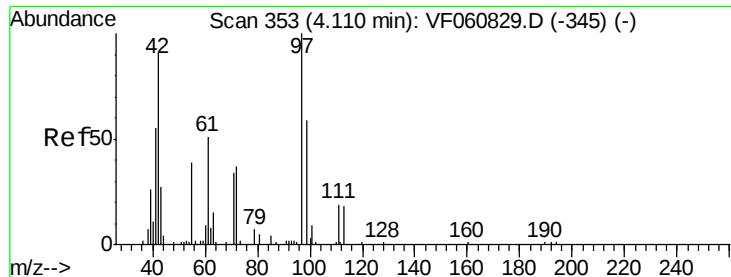
Tot Ion: 43 Resp: 6251
Ion Ratio Lower Upper
43 100
74 12.8 13.3 19.9#



#20
Methylene Chloride
Concen: 4.263 ug/l
RT: 2.26 min Scan# 165
Delta R.T. 0.00 min
Lab File: VF060904.D
Acq: 3 Dec 2018 21:15

Tgt Ion: 84 Resp: 5821
Ion Ratio Lower Upper
84 100
49 133.9 111.3 166.9
51 44.3 38.0 57.0
86 51.8 49.8 74.8





#29

Tetrahydrofuran

Concen: 1.066 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF060904.D

Acq: 3 Dec 2018 21:15

Instrument :

MSVOA_F

ClientSampleId :

S1

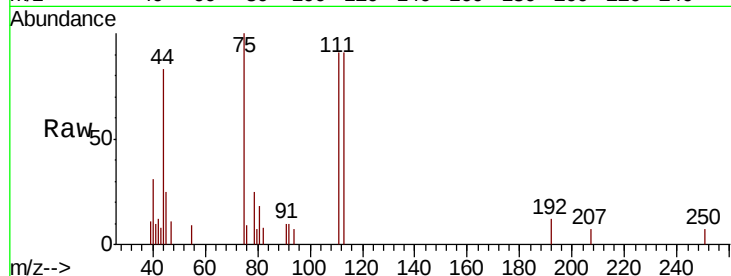
Tot Ion: 42 Resp: 291

Ion Ratio Lower Upper

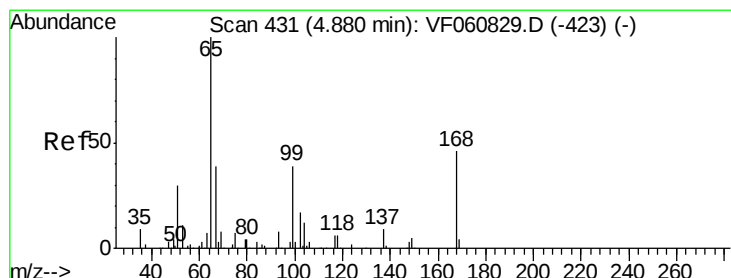
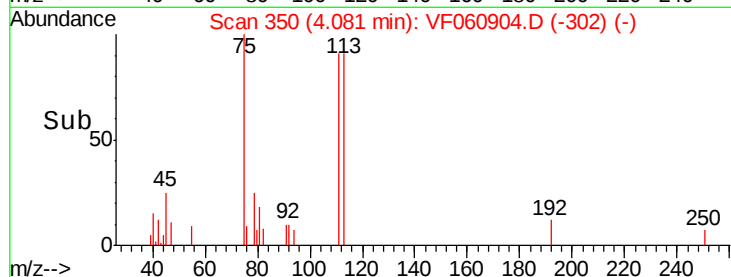
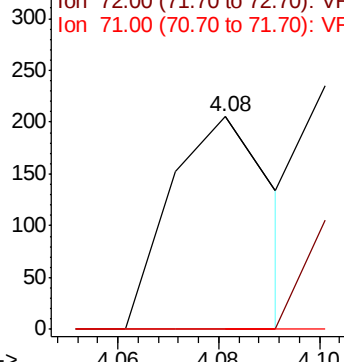
42 100

72 21.6 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: 59.255 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF060904.D

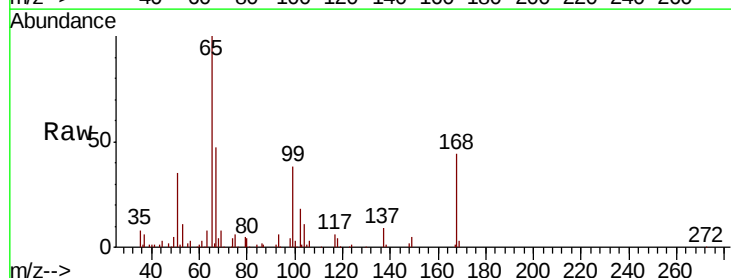
Acq: 3 Dec 2018 21:15

Tgt Ion: 65 Resp: 119609

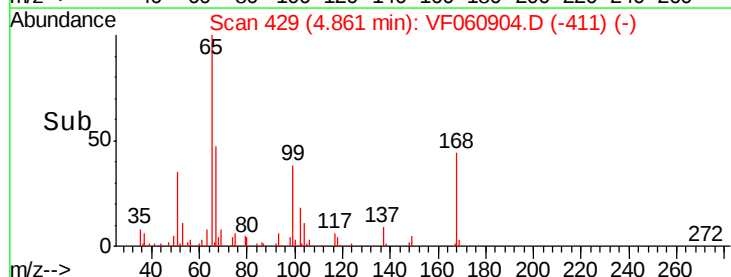
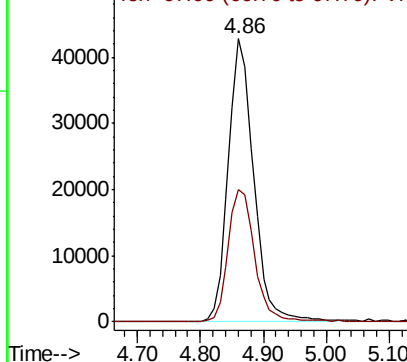
Ion Ratio Lower Upper

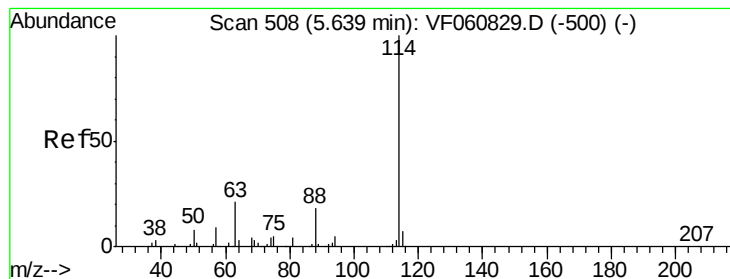
65 100

67 46.9 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: 5.61 min Scan# 505

Delta R.T. -0.03 min

Lab File: VF060904.D

Acq: 3 Dec 2018 21:15

Instrument :

MSVOA_F

ClientSampleId :

S1

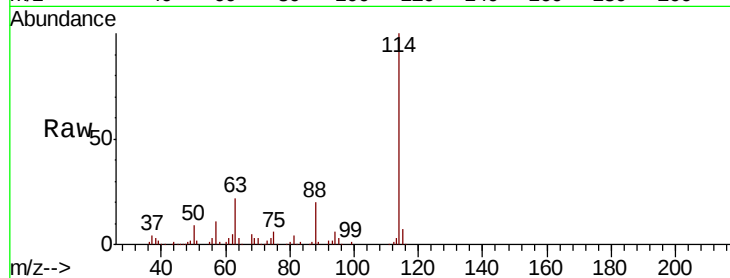
Tot Ion:114 Resp: 306173

Ion Ratio Lower Upper

114 100

63 21.9 0.0 41.6

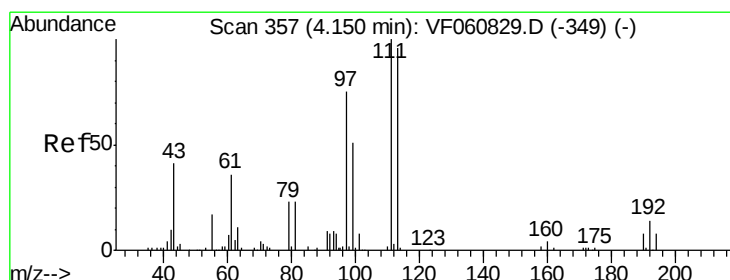
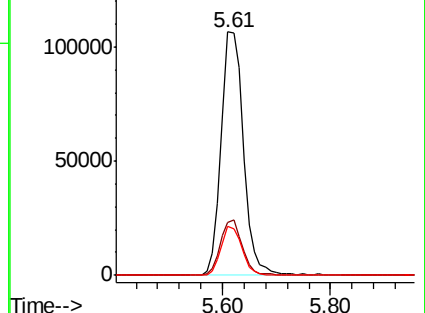
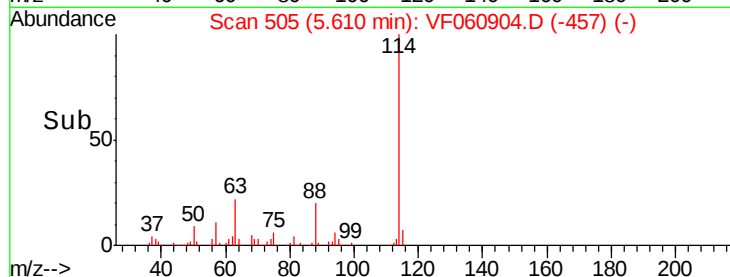
88 20.4 0.0 36.6



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: 53.504 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.02 min

Lab File: VF060904.D

Acq: 3 Dec 2018 21:15

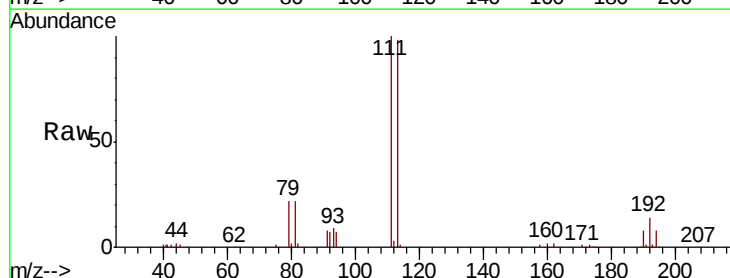
Tgt Ion:113 Resp: 129958

Ion Ratio Lower Upper

113 100

111 101.6 83.0 124.6

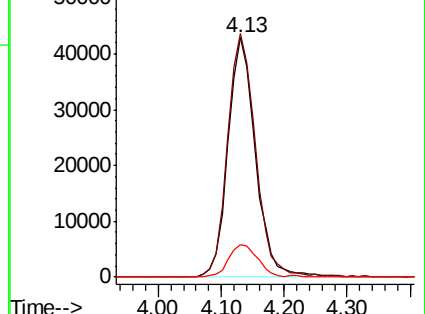
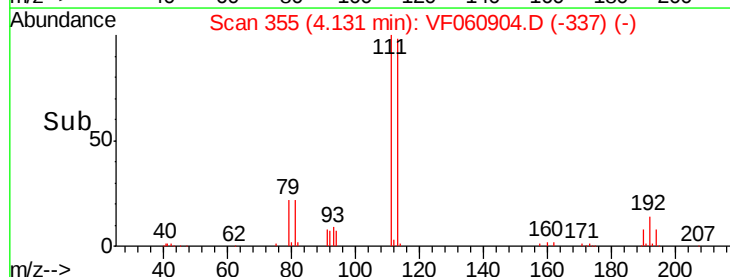
192 13.8 12.3 18.5

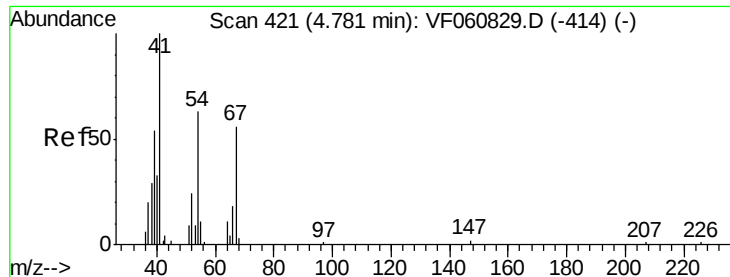


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

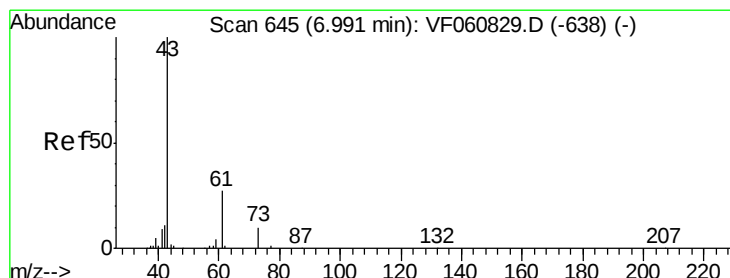
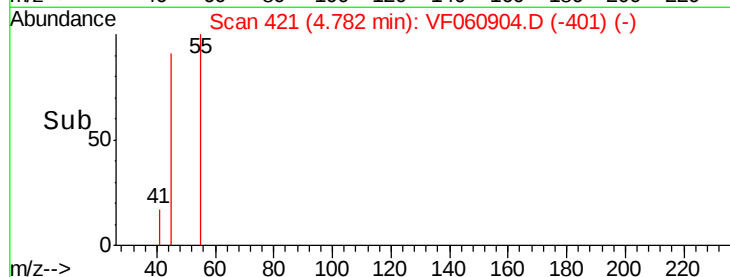
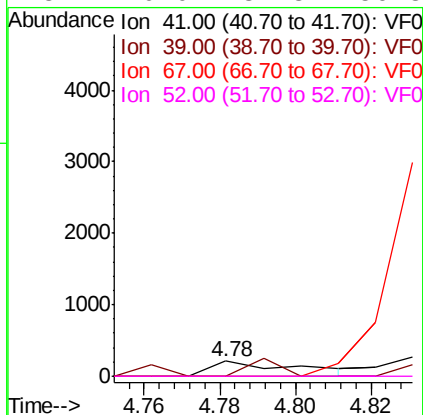
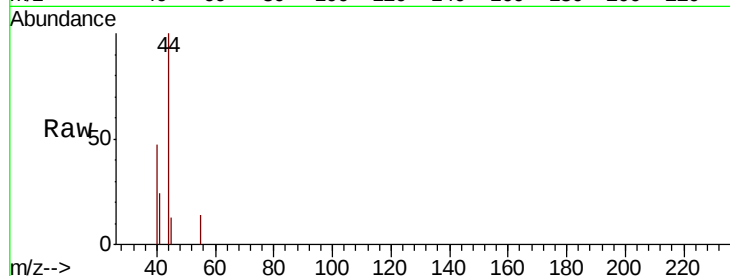




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.78 min Scan# 421
Delta R.T. 0.00 min
Lab File: VF060904.D
Acq: 3 Dec 2018 21:15

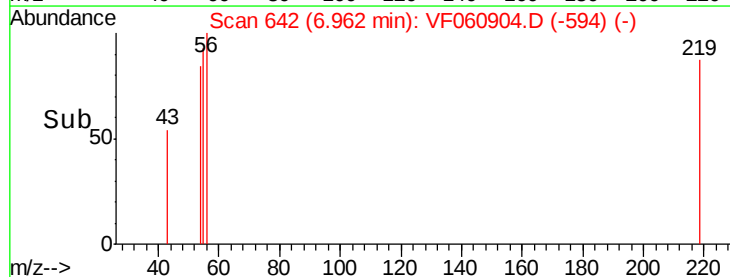
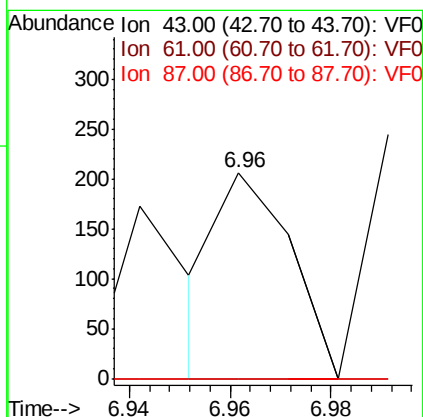
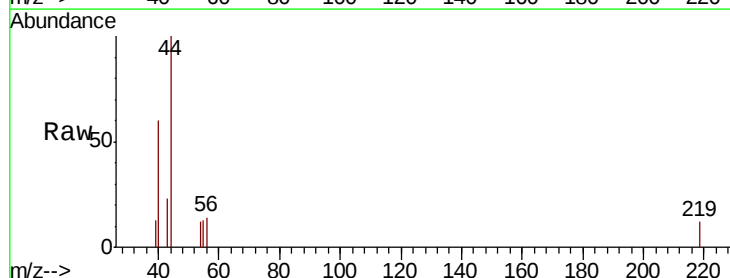
Instrument :
MSVOA_F
ClientSampled :
S1

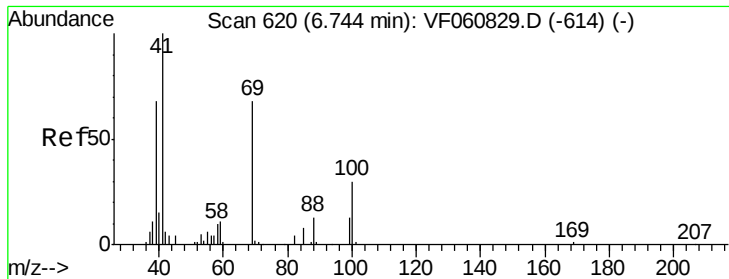
Tot Ion:	41	Resp:	340
Ion	Ratio	Lower	Upper
41	100		
39	0.0	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.96 min Scan# 642
Delta R.T. -0.03 min
Lab File: VF060904.D
Acq: 3 Dec 2018 21:15

Tgt Ion:	43	Resp:	207
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: 8.532 ug/l

RT: 6.73 min Scan# 619

Delta R.T. -0.01 min

Lab File: VF060904.D

Acq: 3 Dec 2018 21:15

Instrument :
MSVOA_F
ClientSampleId :
S1

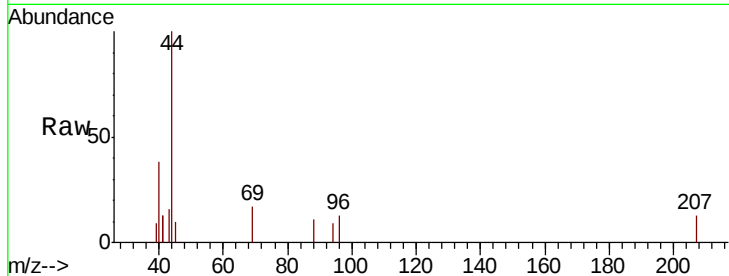
Tot Ion: 88 Resp: 78

Ion Ratio Lower Upper

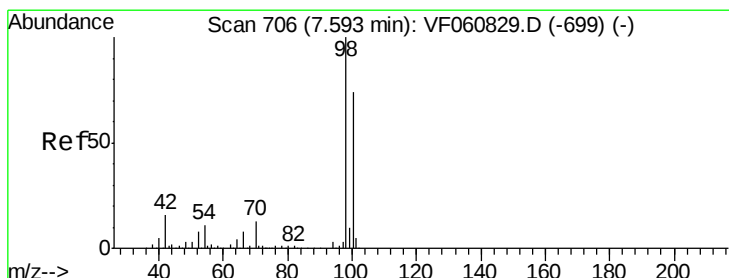
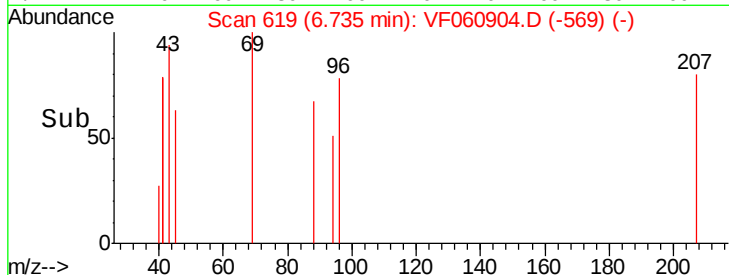
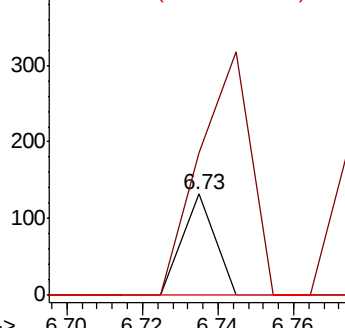
88 100

43 140.9 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



#50

Toluene-d8

Concen: 42.428 ug/l

RT: 7.57 min Scan# 704

Delta R.T. -0.02 min

Lab File: VF060904.D

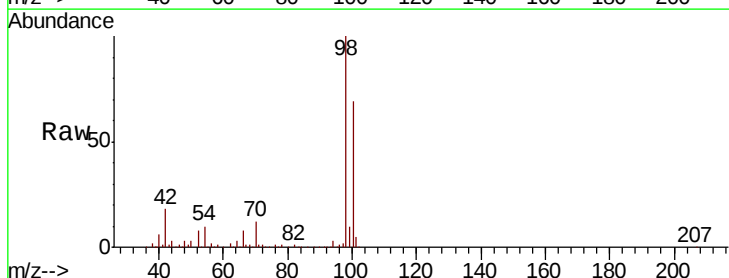
Acq: 3 Dec 2018 21:15

Tgt Ion: 98 Resp: 303571

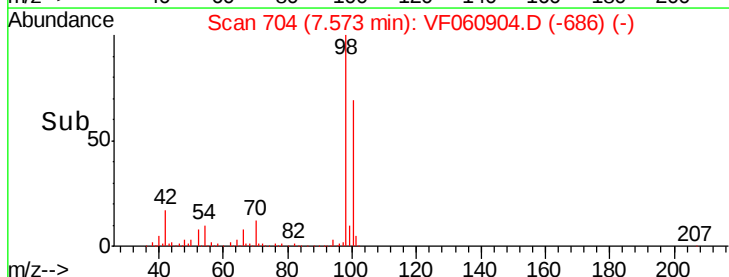
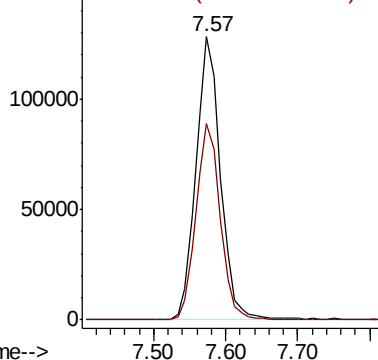
Ion Ratio Lower Upper

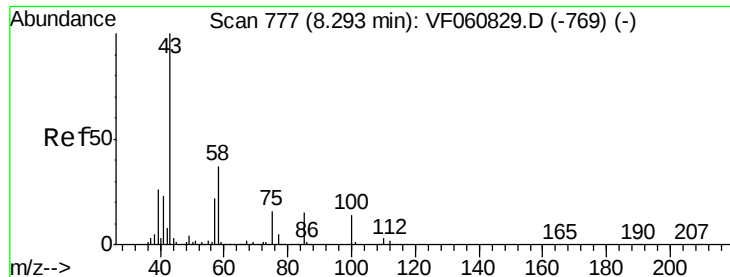
98 100

100 69.3 59.3 88.9



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





#51

4-Methyl-2-Pentanone

Concen: 1.212 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF060904.D

Acq: 3 Dec 2018 21:15

Instrument :

MSVOA_F

ClientSampleId :

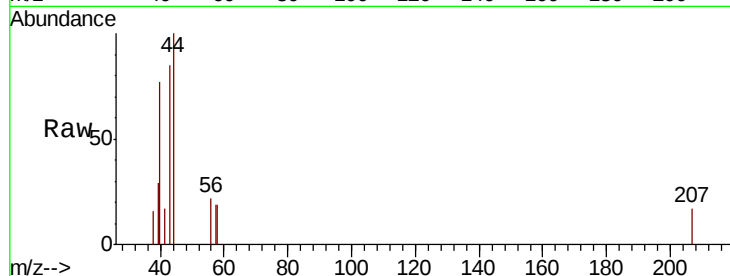
S1

Tot Ion: 43 Resp: 1542

Ion Ratio Lower Upper

43 100

58 21.9 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.28

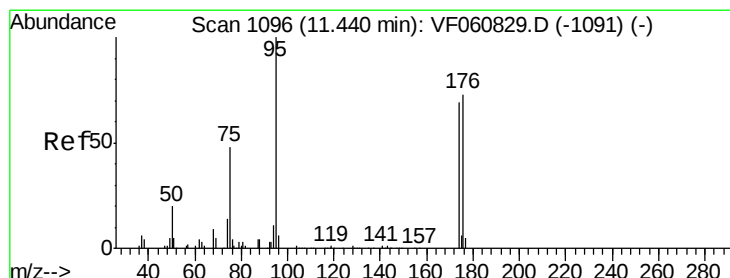
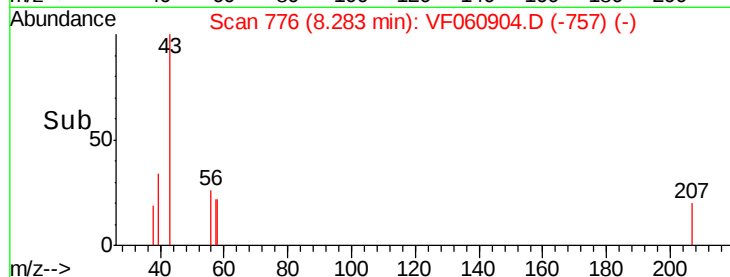
600

400

200

0

Time--> 8.20 8.25 8.30 8.35



#62

4-Bromofluorobenzene

Concen: 38.995 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VF060904.D

Acq: 3 Dec 2018 21:15

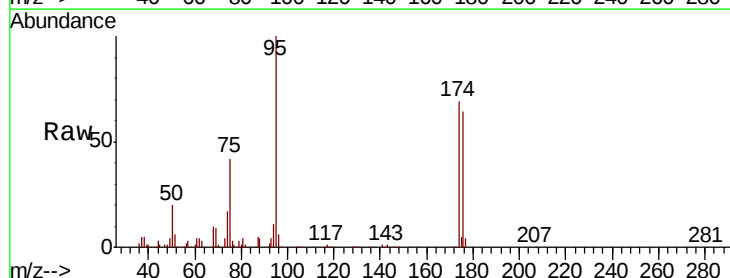
Tgt Ion: 95 Resp: 126806

Ion Ratio Lower Upper

95 100

174 68.7 0.0 138.2

176 63.9 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

100000

80000

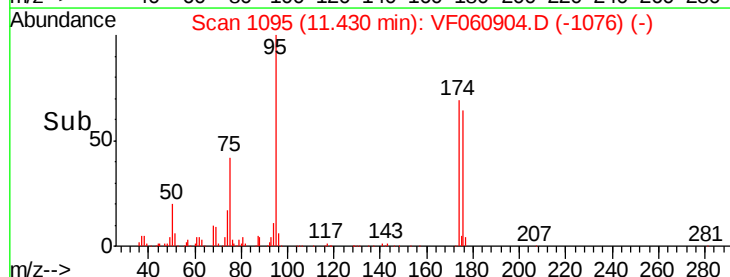
60000

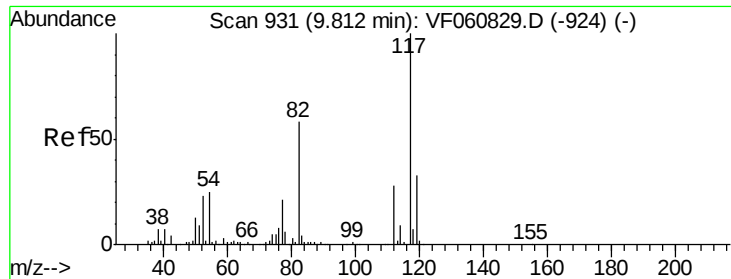
40000

20000

0

Time--> 11.40 11.50

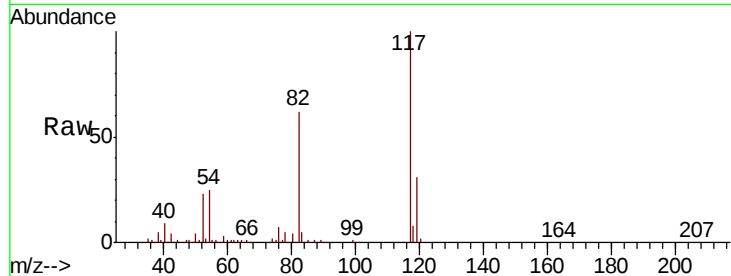




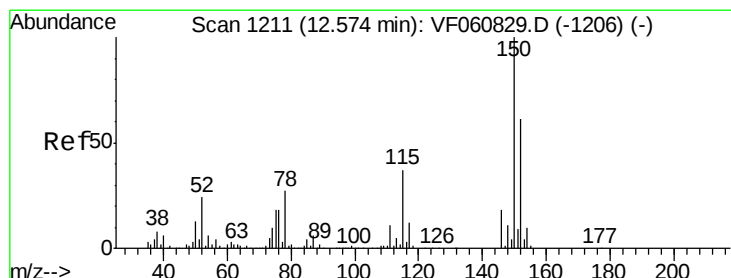
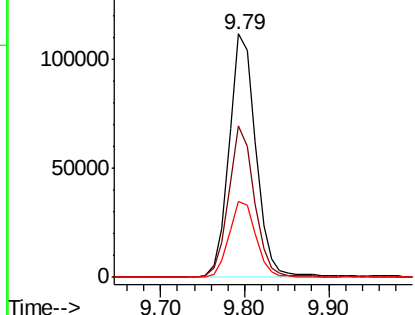
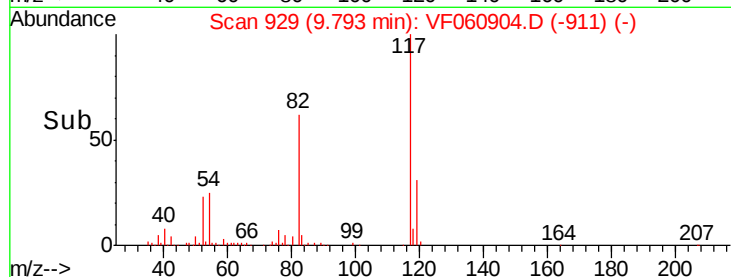
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF060904.D
Acq: 3 Dec 2018 21:15

Instrument :
MSVOA_F
ClientSampleId :
S1

Tot Ion:117 Resp: 247720
Ion Ratio Lower Upper
117 100
82 62.0 46.6 69.8
119 31.1 26.4 39.6

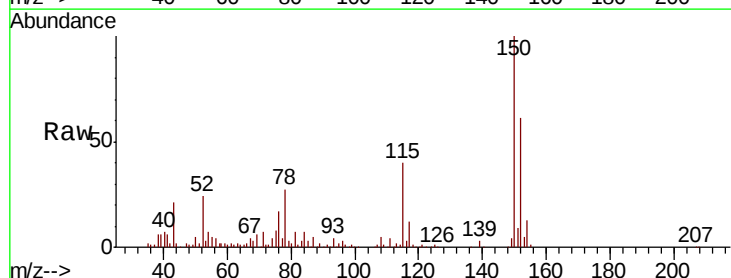


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

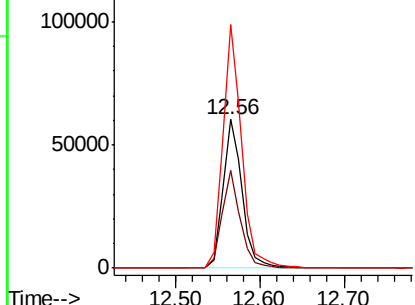
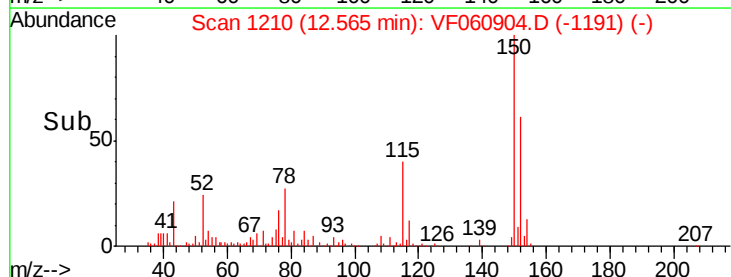


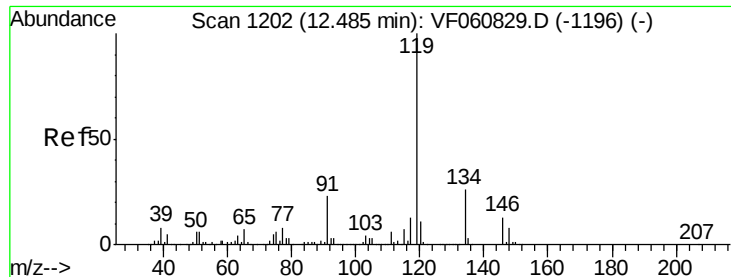
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. -0.01 min
Lab File: VF060904.D
Acq: 3 Dec 2018 21:15

Tgt Ion:152 Resp: 95038
Ion Ratio Lower Upper
152 100
115 65.5 30.1 90.5
150 164.0 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

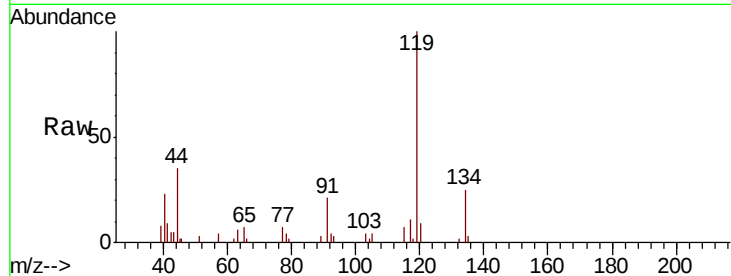




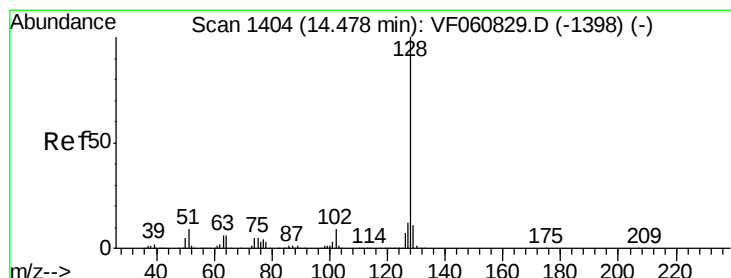
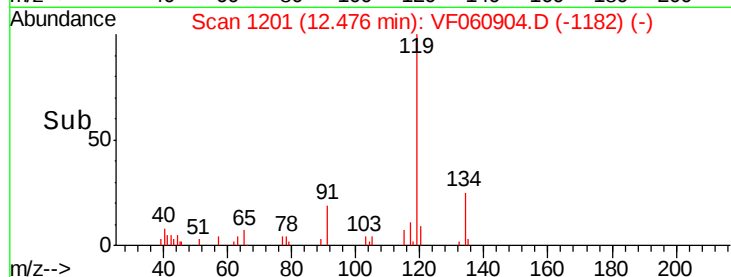
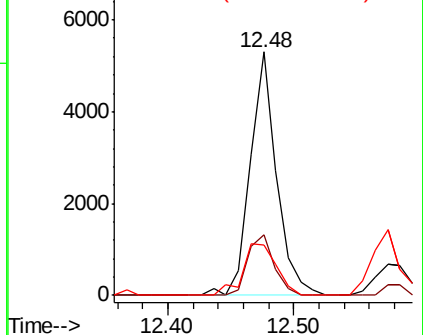
#86
p-Isopropyltoluene
Concen: 1.078 ug/l
RT: 12.48 min Scan# 1201
Delta R.T. -0.01 min
Lab File: VF060904.D
Acq: 3 Dec 2018 21:15

Instrument :
MSVOA_F
ClientSampleId :
S1

Tot Ion:119 Resp: 7681
Ion Ratio Lower Upper
119 100
134 24.9 12.9 38.6
91 20.7 11.8 35.3

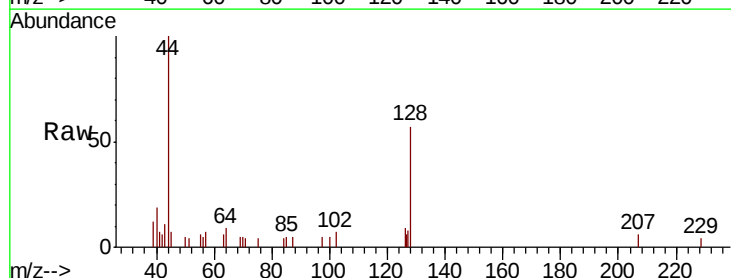


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): VF0



#95
Naphthalene
Concen: Below Cal
RT: 14.47 min Scan# 1403
Delta R.T. -0.01 min
Lab File: VF060904.D
Acq: 3 Dec 2018 21:15

Tgt Ion:128 Resp: 2246
Ion Ratio Lower Upper
128 100
127 24.1 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

