

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121918\
 Data File : VF061090.D
 Acq On : 19 Dec 2018 17:40
 Operator : VA/AP
 Sample : J6388-12
 Misc : 4.79g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:24:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	136812	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	229192	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	143045	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	39860	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	82793	47.05	ug/l	0.00
Spiked Amount			Recovery	=	94.10%	
35) Dibromofluoromethane	4.12	113	88806	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
50) Toluene-d8	7.55	98	170300	32.73	ug/l	0.00
Spiked Amount			Recovery	=	65.46%	
62) 4-Bromofluorobenzene	11.41	95	47029	19.61	ug/l	0.00
Spiked Amount			Recovery	=	39.22%	

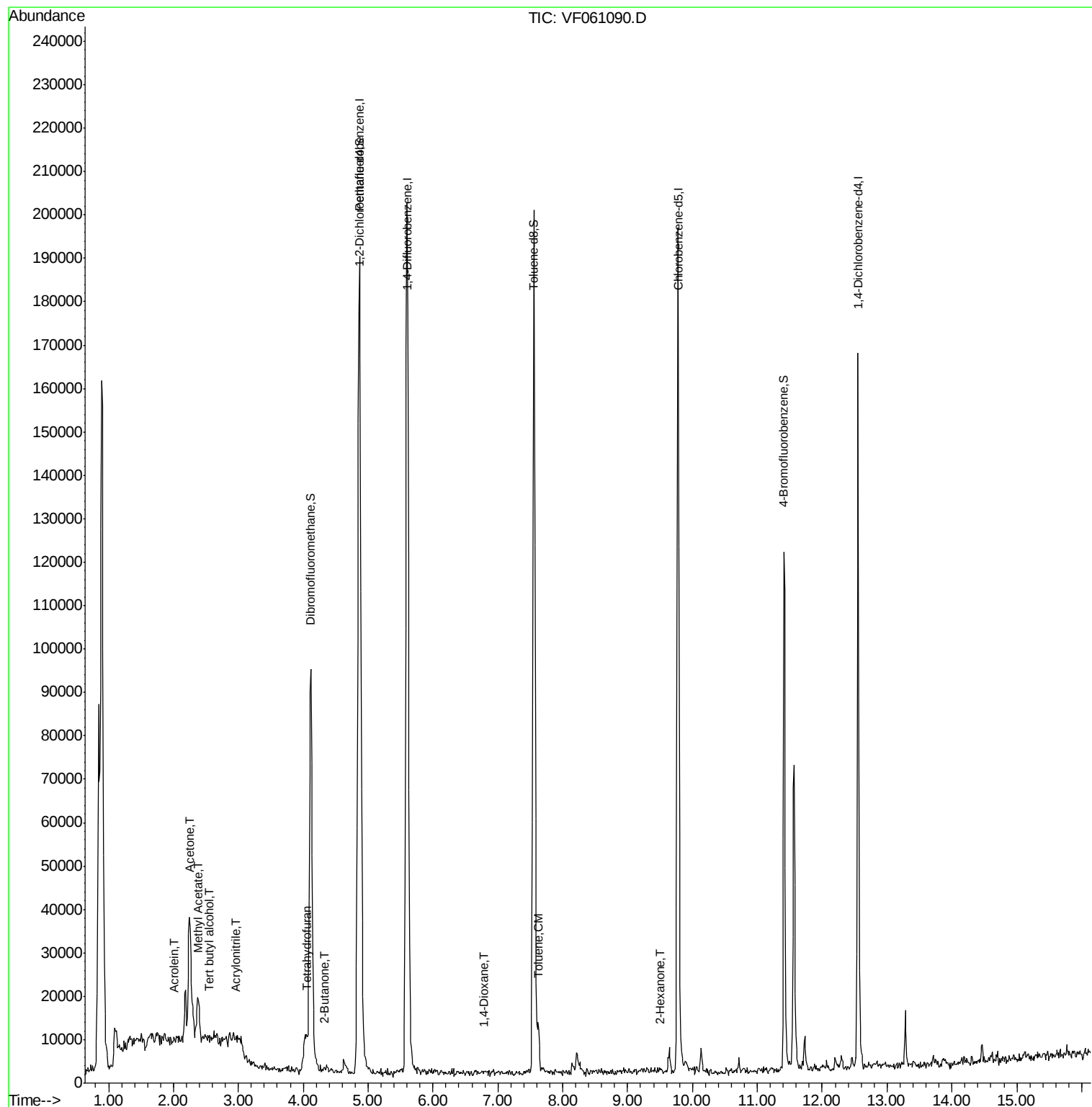
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	185	2.605	ug/l #	65
13) Acrolein	2.01	56	308	6.003	ug/l	89
15) Acrylonitrile	2.96	53	952	5.798	ug/l #	12
16) Acetone	2.23	43	33821	96.145	ug/l	95
18) Methyl Acetate	2.38	43	4849	6.663	ug/l #	84
20) Methylene Chloride	2.19	84	3278	Below Cal		87
25) 2-Butanone	4.34	43	1014	1.777	ug/l #	57
29) Tetrahydrofuran	4.05	42	753	3.243	ug/l #	37
49) 1,4-Dioxane	6.78	88	62	9.163	ug/l #	1
52) Toluene	7.63	92	4513	1.146	ug/l	98
59) 2-Hexanone	9.50	43	1419	2.142	ug/l #	24
70) Styrene	10.79	104	401	Below Cal	#	34
87) 1,3-Dichlorobenzene	12.48	146	186	Below Cal	#	65

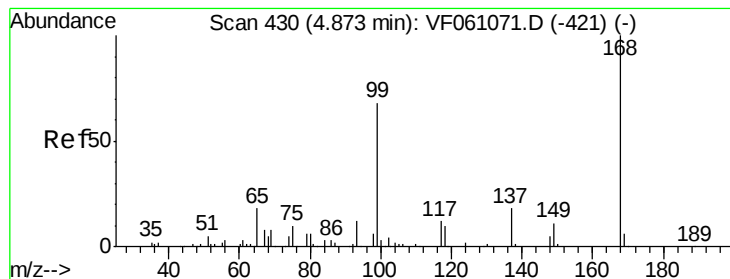
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061090.D

Acq: 19 Dec 2018 17:40

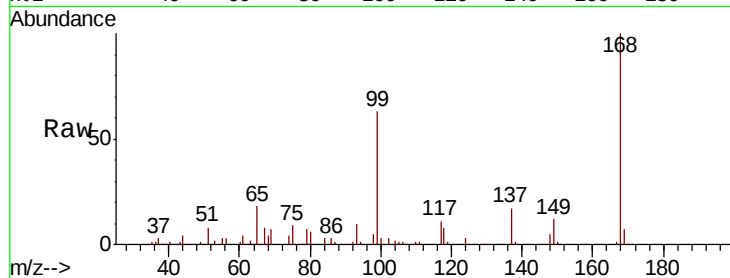
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 136812

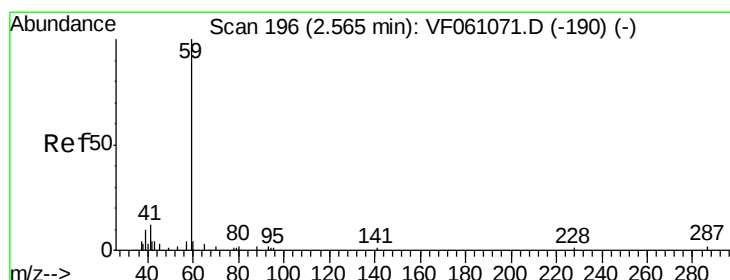
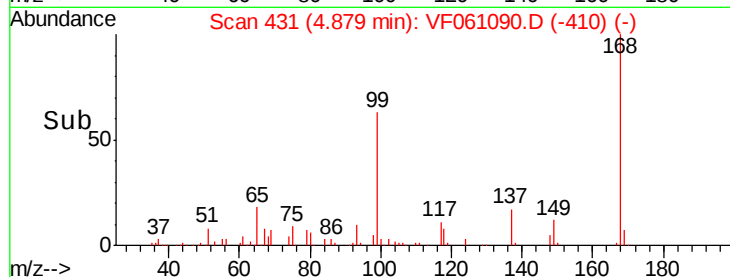
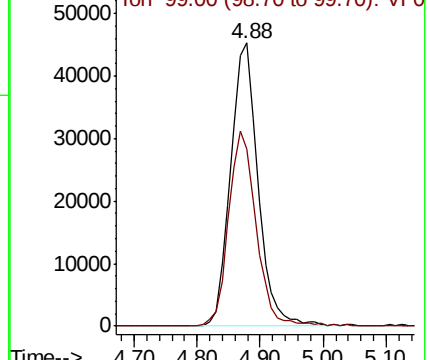
Ion Ratio Lower Upper

168 100

99 62.7 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 2.605 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.00 min

Lab File: VF061090.D

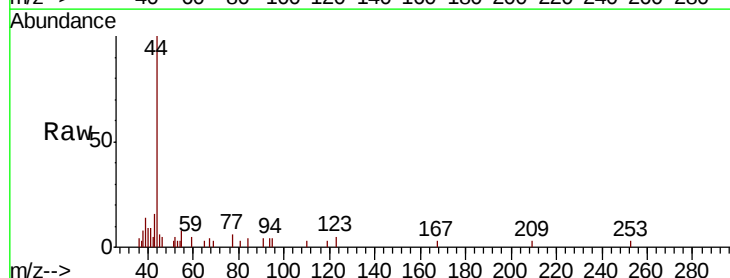
Acq: 19 Dec 2018 17:40

Tgt Ion: 59 Resp: 185

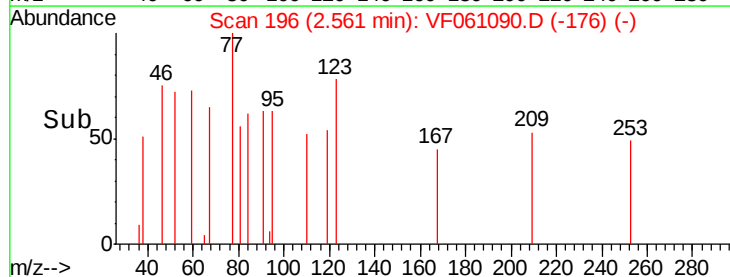
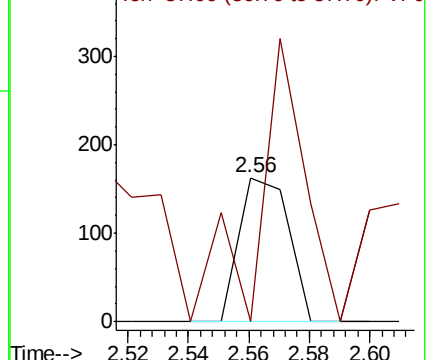
Ion Ratio Lower Upper

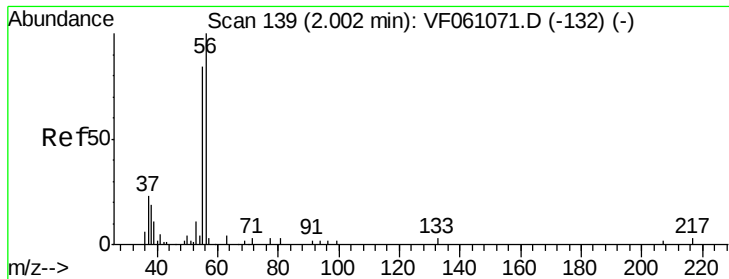
59 100

57 0.0 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: 6.003 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF061090.D

Acq: 19 Dec 2018 17:40

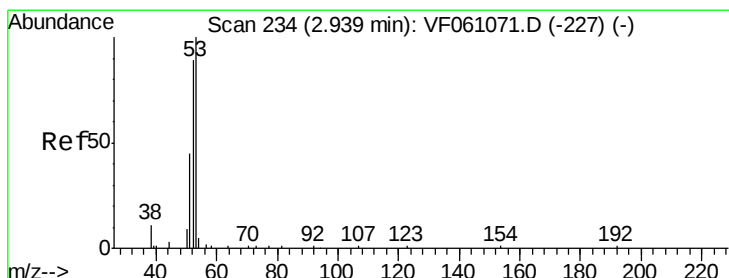
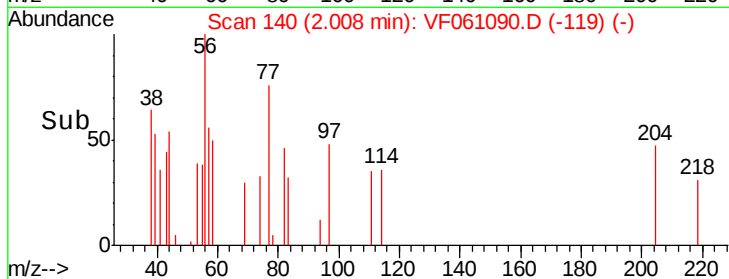
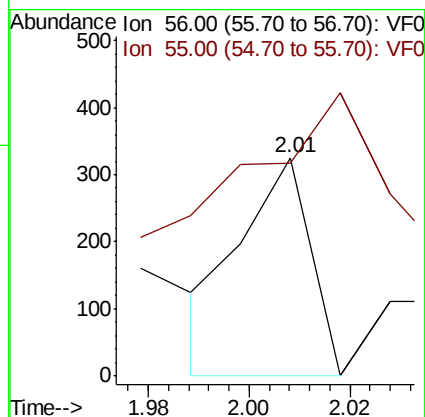
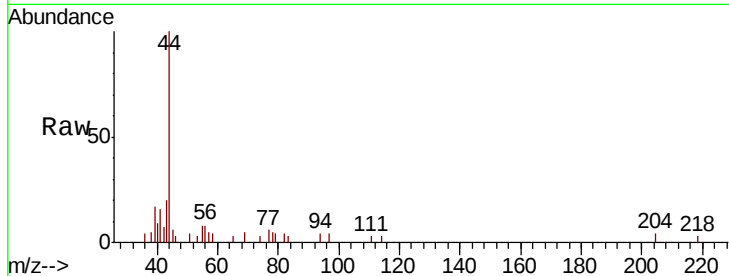
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 308

Ion Ratio Lower Upper

56 100

55 97.5 70.2 105.2



#15

Acrylonitrile

Concen: 5.798 ug/l

RT: 2.96 min Scan# 237

Delta R.T. 0.03 min

Lab File: VF061090.D

Acq: 19 Dec 2018 17:40

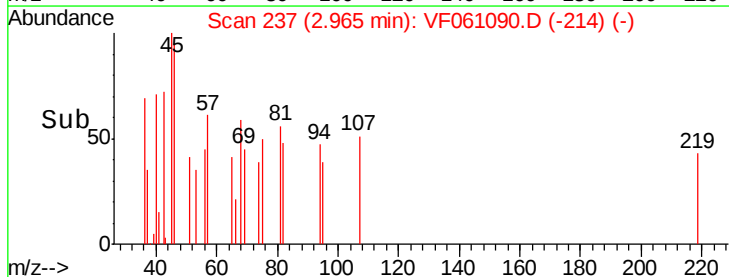
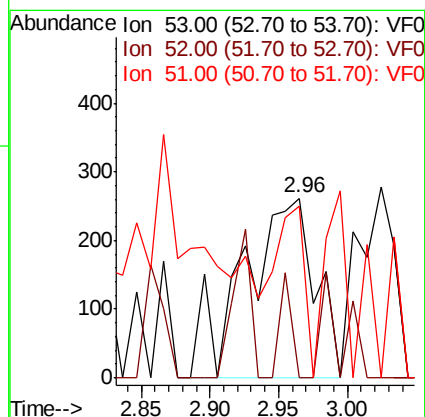
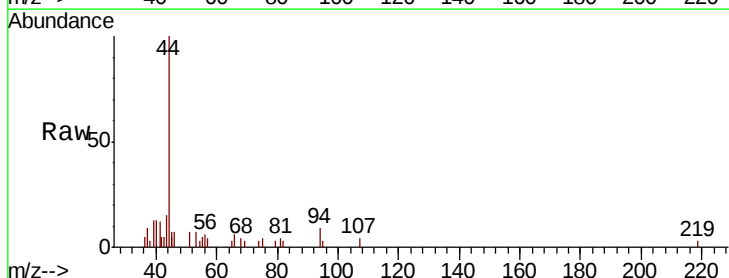
Tgt Ion: 53 Resp: 952

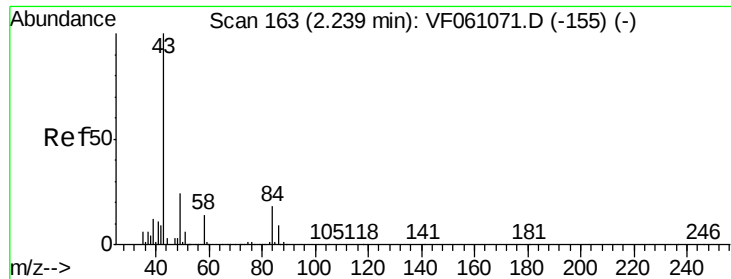
Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

51 95.4 36.8 55.2#

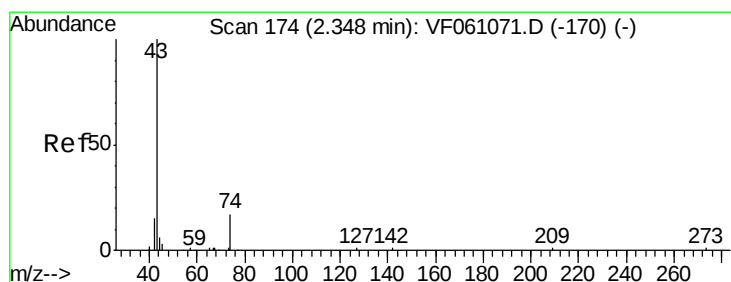
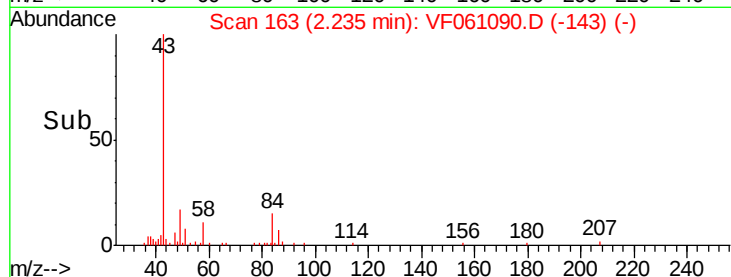
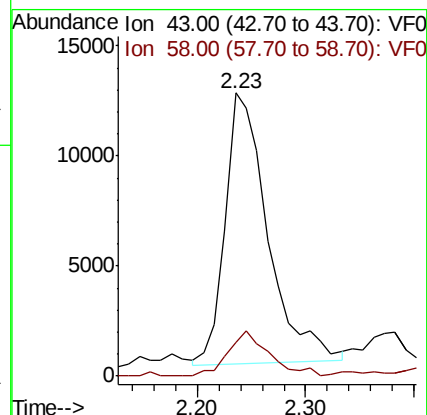
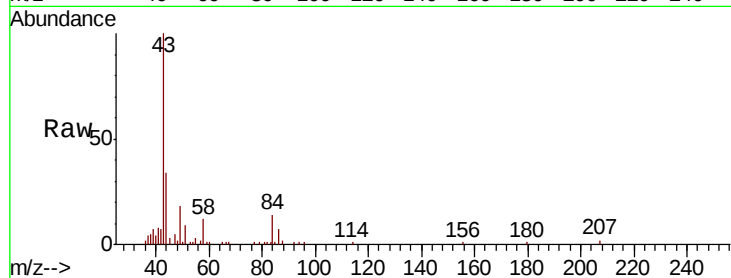




#16
Acetone
Concen: 96.145 ug/l
RT: 2.23 min Scan# 163
Delta R.T. -0.00 min
Lab File: VF061090.D
Acq: 19 Dec 2018 17:40

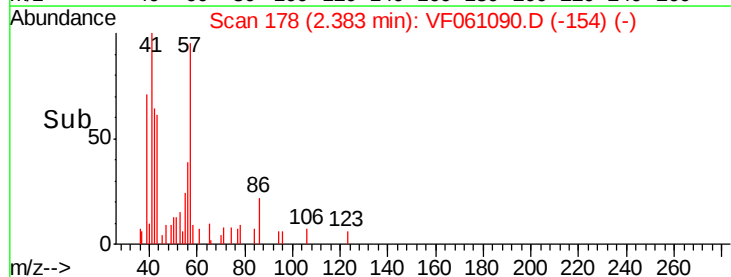
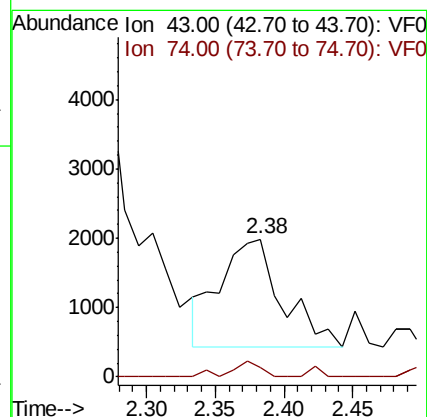
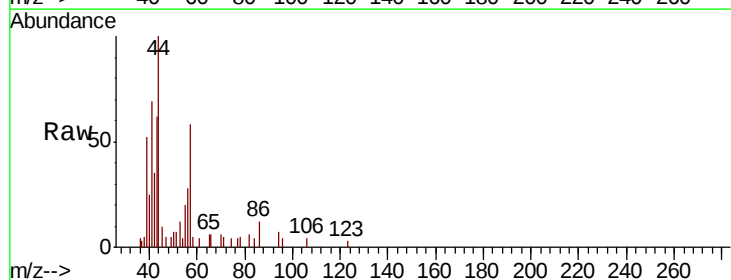
Instrument :
MSVOA_F
ClientSampleId :

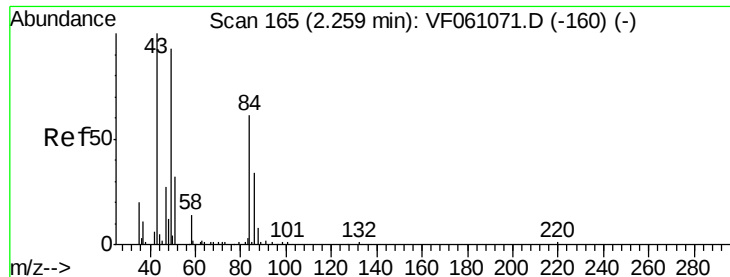
Tot Ion: 43 Resp: 33821
Ion Ratio Lower Upper
43 100
58 11.9 11.1 16.7



#18
Methyl Acetate
Concen: 6.663 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.04 min
Lab File: VF061090.D
Acq: 19 Dec 2018 17:40

Tgt Ion: 43 Resp: 4849
Ion Ratio Lower Upper
43 100
74 7.2 11.0 16.6#

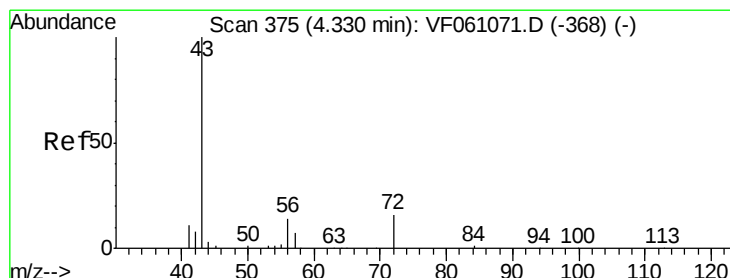
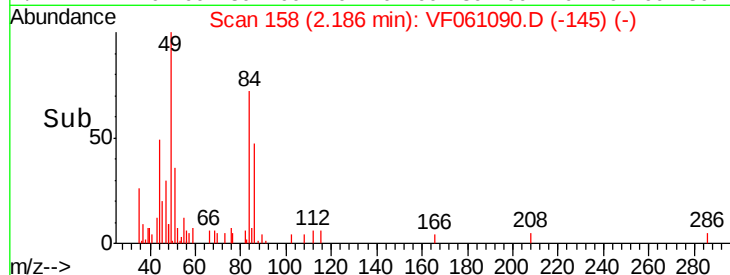
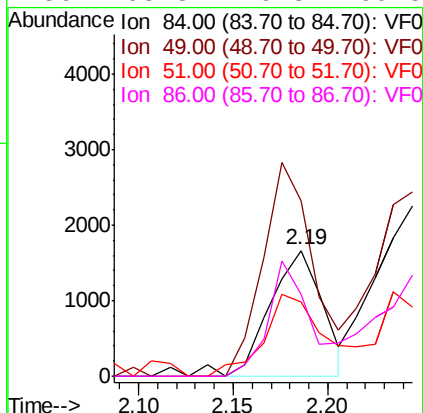
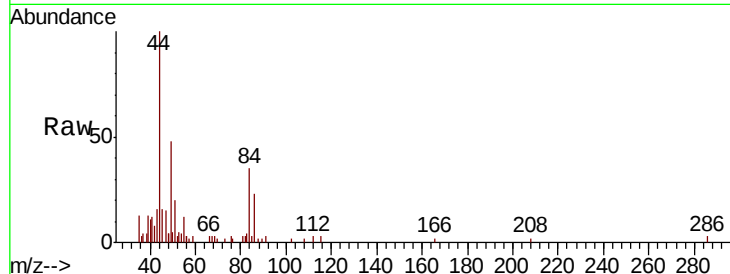




#20
Methylene Chloride
Concen: Below Cal
RT: 2.19 min Scan# 158
Delta R.T. -0.07 min
Lab File: VF061090.D
Acq: 19 Dec 2018 17:40

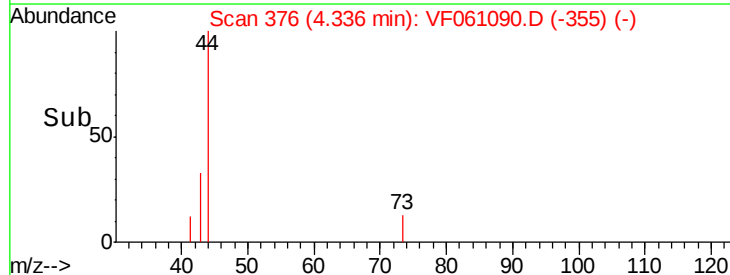
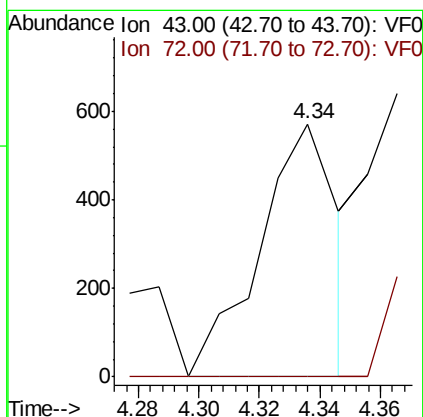
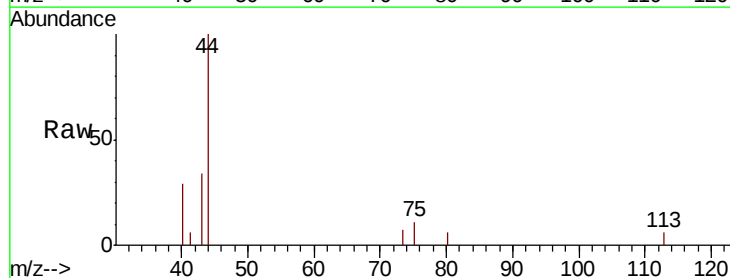
Instrument :
MSVOA_F
ClientSampleId :

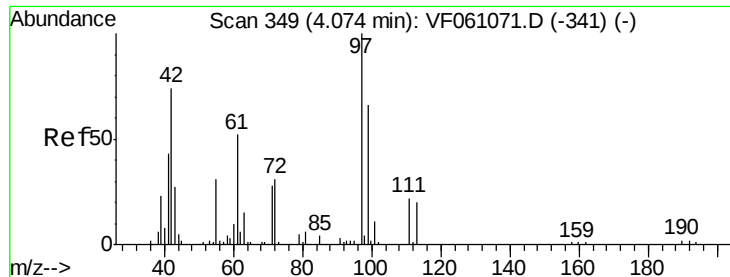
Tot Ion: 84 Resp: 3278
Ion Ratio Lower Upper
84 100
49 138.9 129.4 194.2
51 58.8 44.0 66.0
86 65.3 46.3 69.5



#25
2-Butanone
Concen: 1.777 ug/l
RT: 4.34 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF061090.D
Acq: 19 Dec 2018 17:40

Tgt Ion: 43 Resp: 1014
Ion Ratio Lower Upper
43 100
72 0.0 15.6 23.4#





#29

Tetrahydrofuran

Concen: 3.243 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.02 min

Lab File: VF061090.D

Acq: 19 Dec 2018 17:40

Instrument :

MSVOA_F

ClientSampleId :

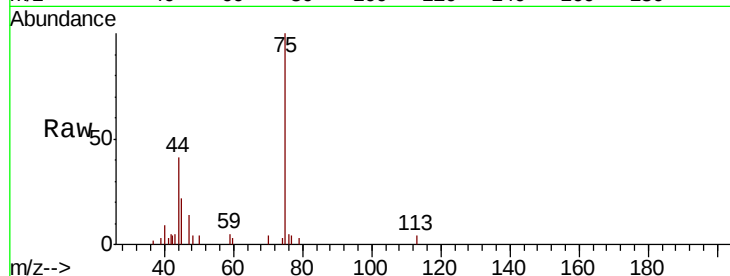
Tot Ion: 42 Resp: 753

Ion Ratio Lower Upper

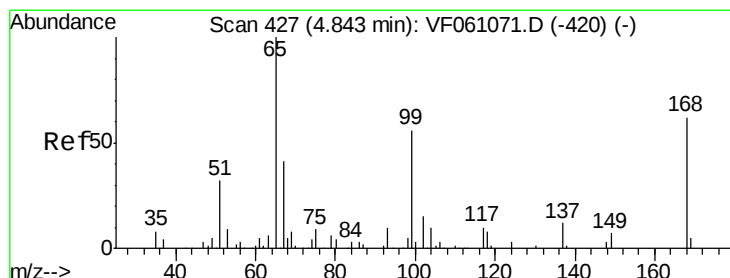
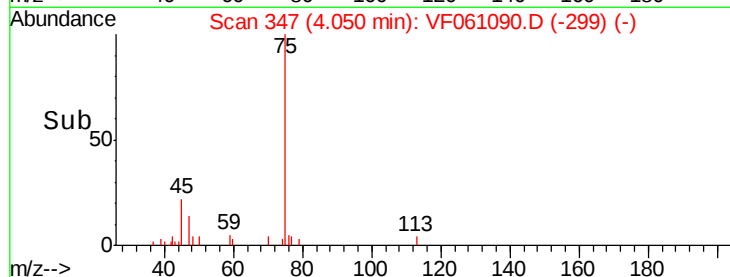
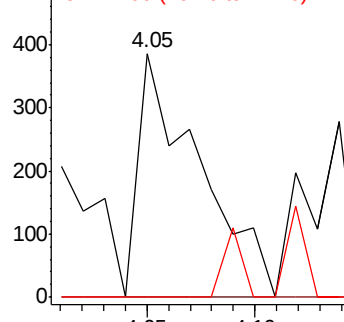
42 100

72 0.0 31.8 47.8#

71 0.0 29.7 44.5#



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: 47.051 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061090.D

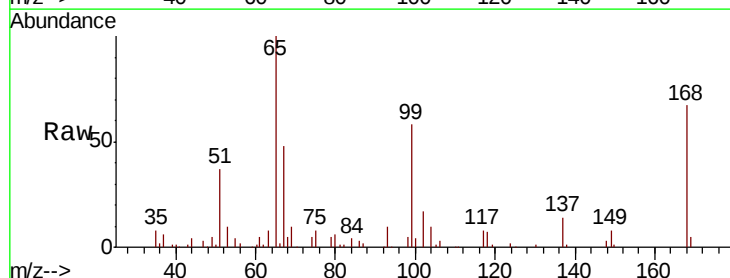
Acq: 19 Dec 2018 17:40

Tgt Ion: 65 Resp: 82793

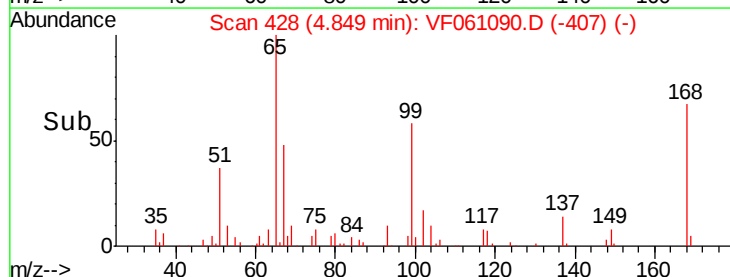
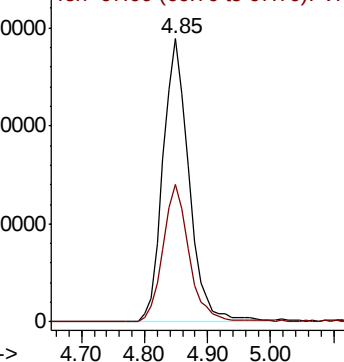
Ion Ratio Lower Upper

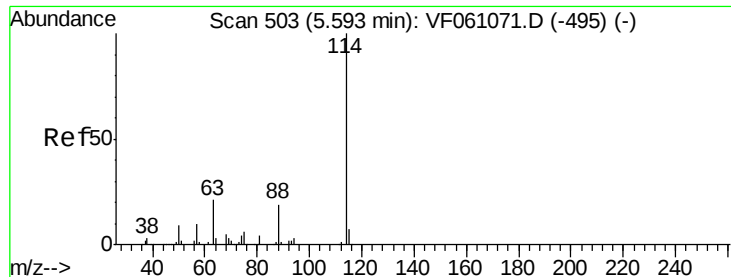
65 100

67 48.5 0.0 94.6



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: 5.60 min Scan# 504

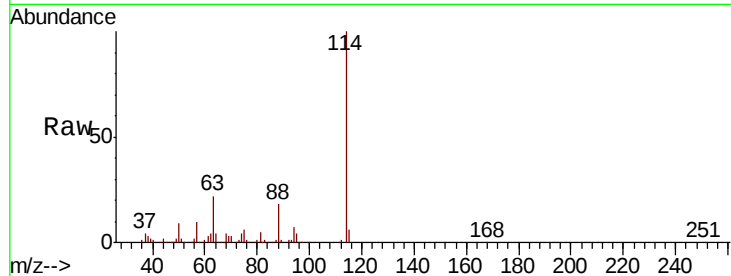
Delta R.T. 0.01 min

Lab File: VF061090.D

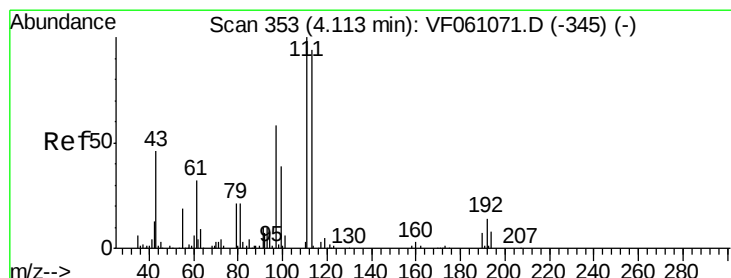
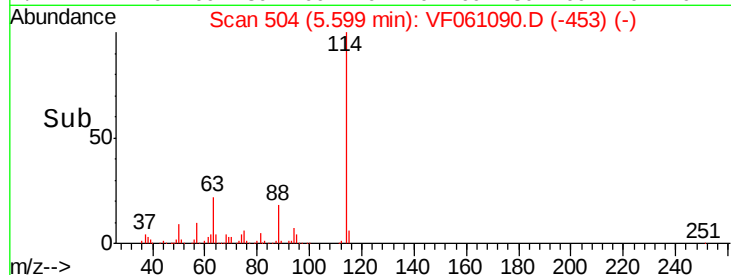
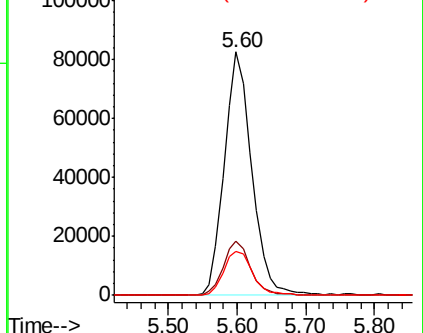
Acq: 19 Dec 2018 17:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:114	Resp:	229192
Ion Ratio	Lower	Upper
114 100		
63 22.3	0.0	41.6
88 18.2	0.0	38.0



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: 48.370 ug/l

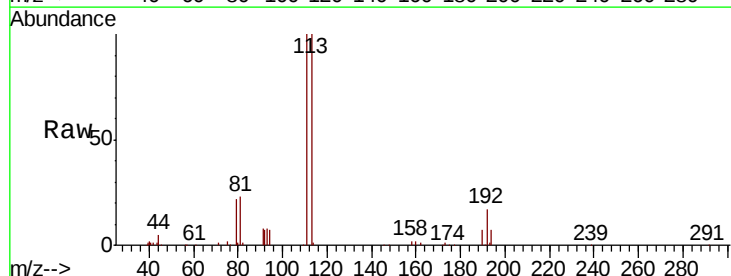
RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

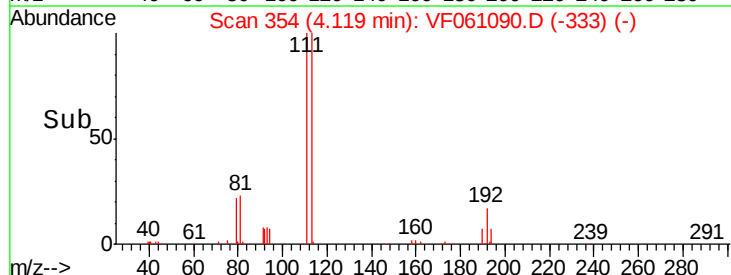
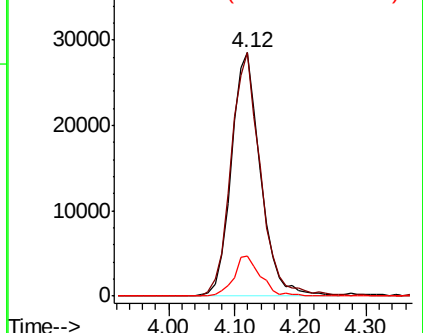
Lab File: VF061090.D

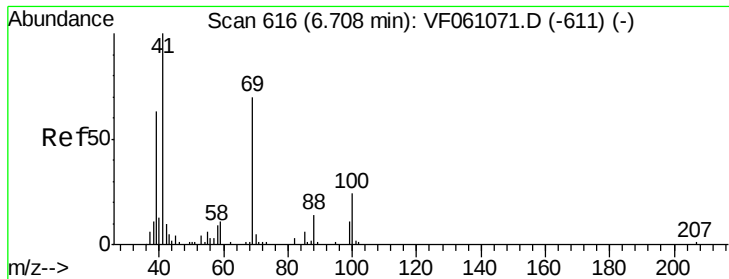
Acq: 19 Dec 2018 17:40

Tgt Ion:113	Resp:	88806
Ion Ratio	Lower	Upper
113 100		
111 99.9	85.2	127.8
192 16.5	12.8	19.2



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





#49

1,4-Dioxane

Concen: 9.163 ug/l

RT: 6.78 min Scan# 624

Delta R.T. 0.07 min

Lab File: VF061090.D

Acq: 19 Dec 2018 17:40

Instrument :
MSVOA_F
ClientSampled :

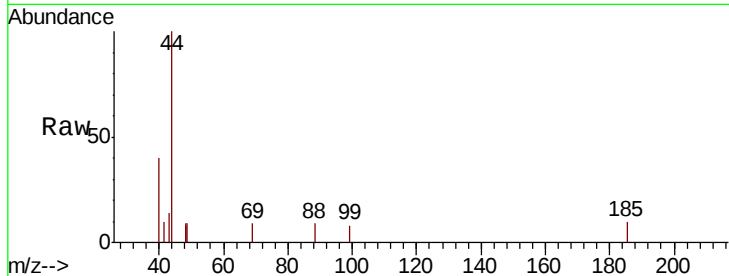
Tot Ion: 88 Resp: 62

Ion Ratio Lower Upper

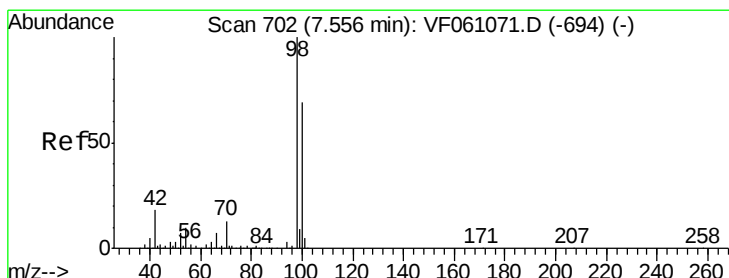
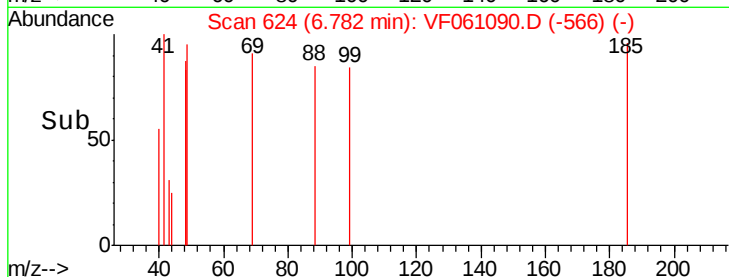
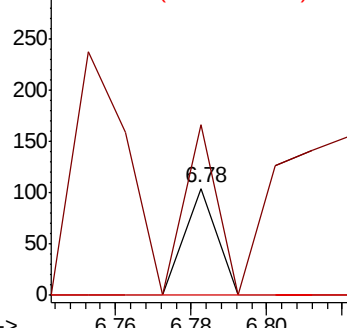
88 100

43 159.6 33.3 49.9#

58 0.0 53.2 79.8#



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: 32.732 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF061090.D

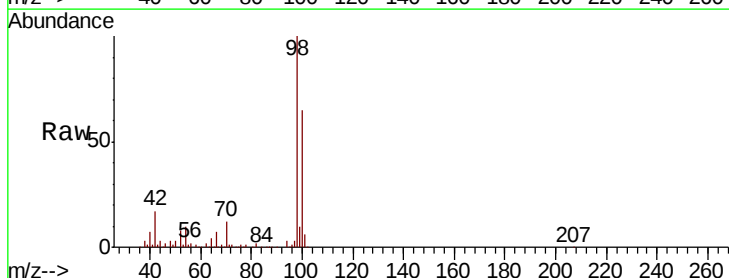
Acq: 19 Dec 2018 17:40

Tgt Ion: 98 Resp: 170300

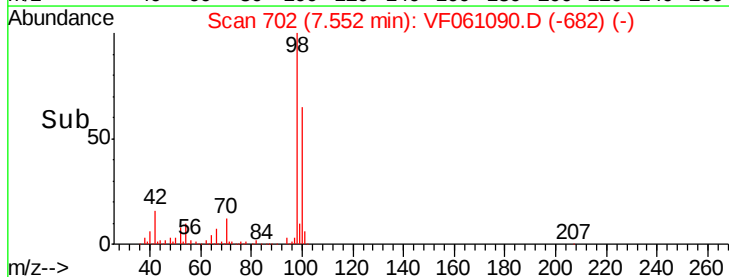
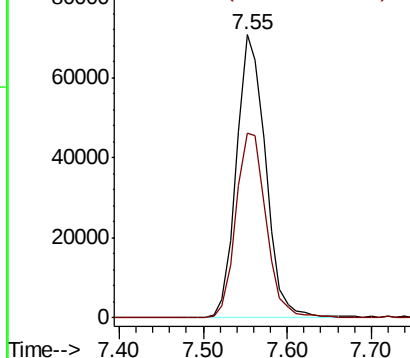
Ion Ratio Lower Upper

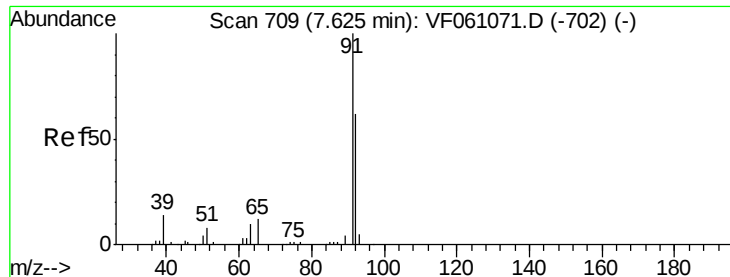
98 100

100 65.5 55.3 82.9



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





#52

Toluene

Concen: 1.146 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061090.D

Acq: 19 Dec 2018 17:40

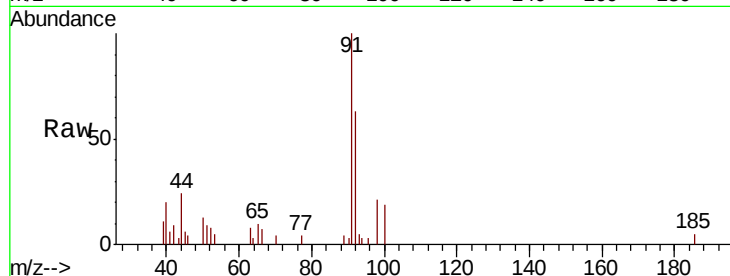
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 92 Resp: 4513

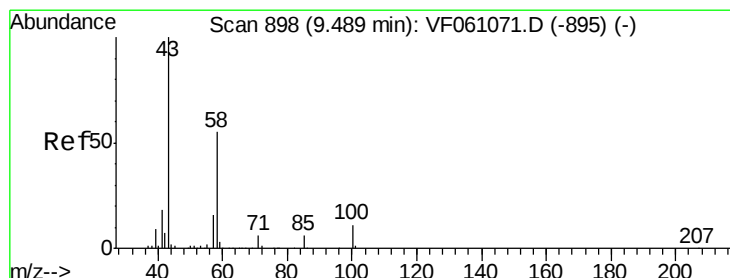
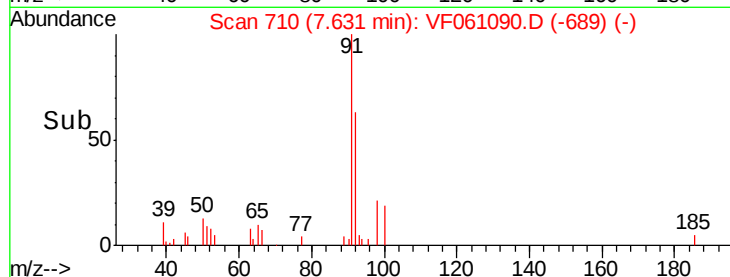
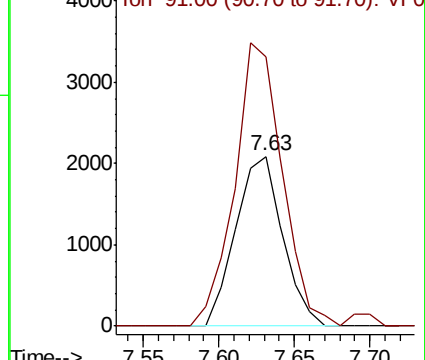
Ion Ratio Lower Upper

92 100

91 159.0 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0
Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 2.142 ug/l

RT: 9.50 min Scan# 900

Delta R.T. 0.02 min

Lab File: VF061090.D

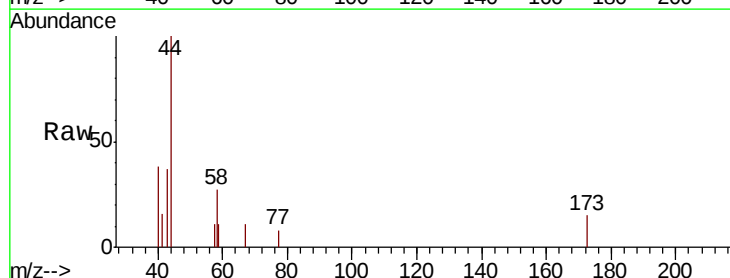
Acq: 19 Dec 2018 17:40

Tgt Ion: 43 Resp: 1419

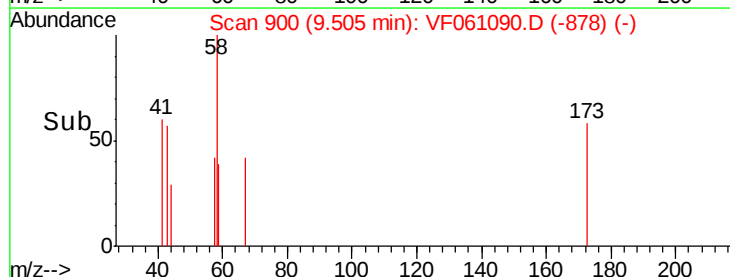
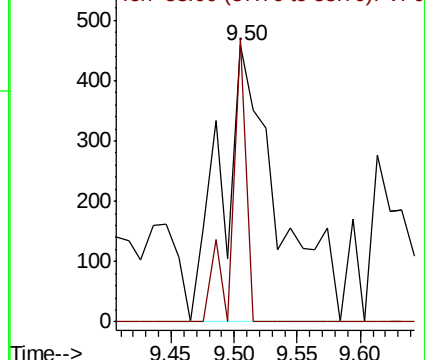
Ion Ratio Lower Upper

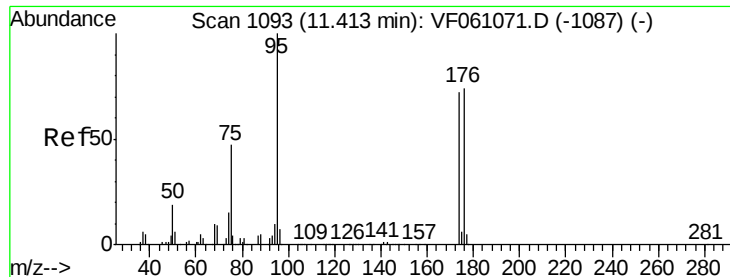
43 100

58 102.2 25.1 75.2#



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





#62

4-Bromofluorobenzene

Concen: 19.607 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF061090.D

Acq: 19 Dec 2018 17:40

Instrument :

MSVOA_F

ClientSampleId :

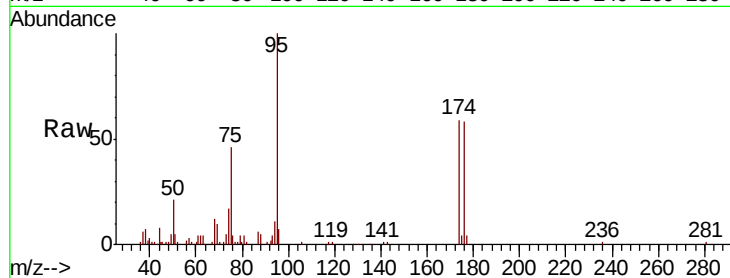
Tot Ion: 95 Resp: 47029

Ion Ratio Lower Upper

95 100

174 59.2 0.0 143.8

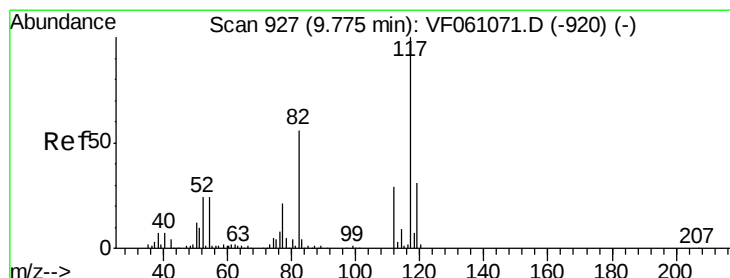
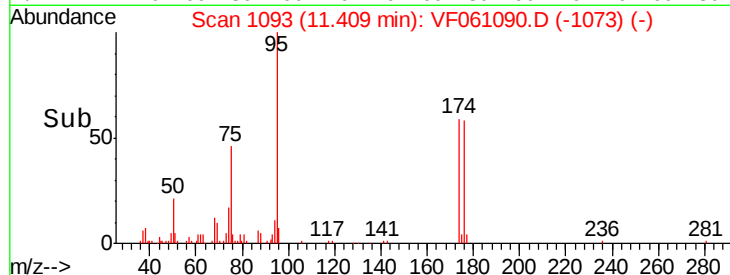
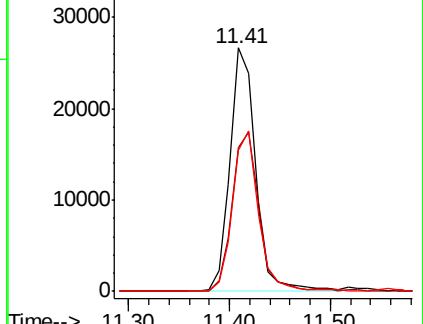
176 57.8 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF061071.D (-1087) (-)

Ion 174.00 (173.70 to 174.70): VF061071.D (-1087) (-)

Ion 176.00 (175.70 to 176.70): VF061071.D (-1087) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF061090.D

Acq: 19 Dec 2018 17:40

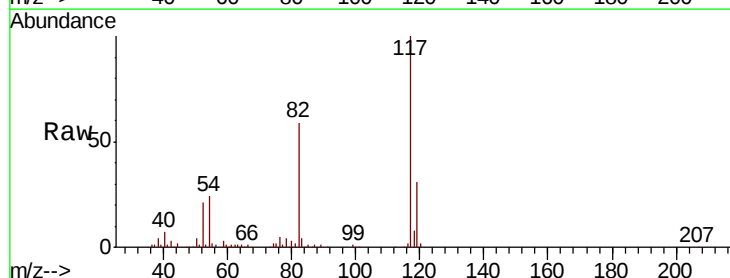
Tgt Ion: 117 Resp: 143045

Ion Ratio Lower Upper

117 100

82 58.7 45.0 67.4

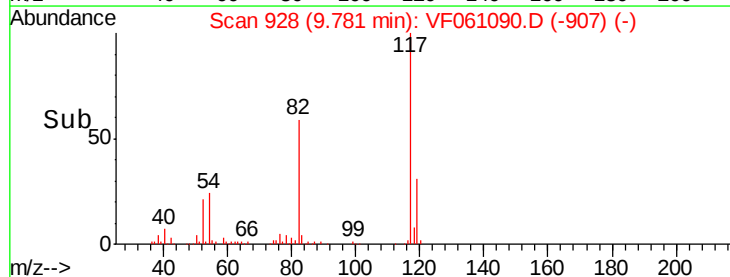
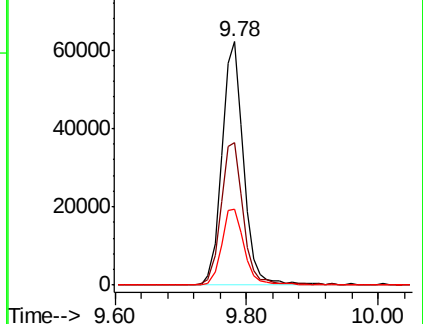
119 31.4 24.8 37.2

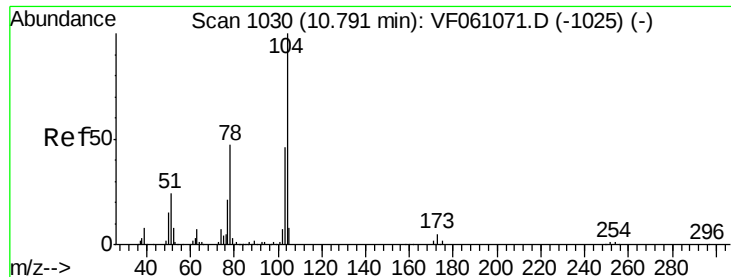


Abundance Ion 117.00 (116.70 to 117.70): VF061071.D (-920) (-)

Ion 82.00 (81.70 to 82.70): VF061071.D (-920) (-)

Ion 119.00 (118.70 to 119.70): VF061071.D (-920) (-)

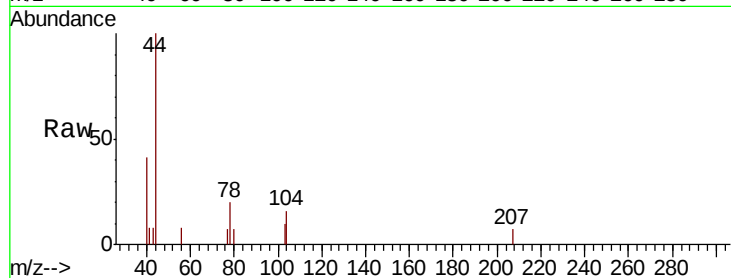




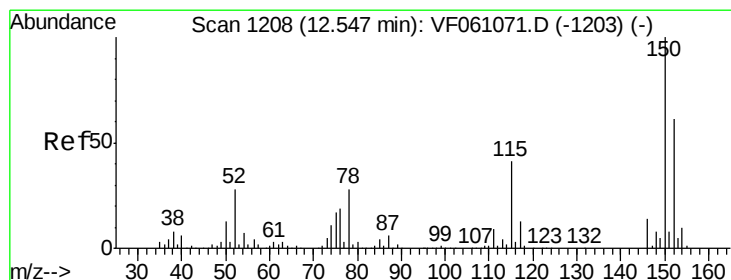
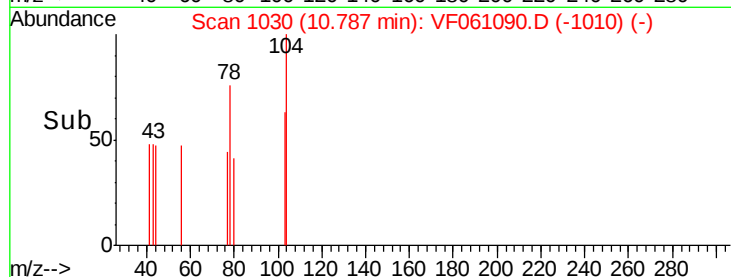
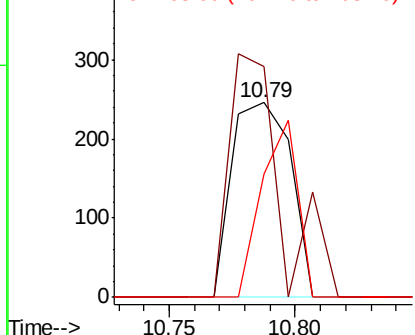
#70
Stvrene
Concen: Below Cal
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061090.D
Acq: 19 Dec 2018 17:40

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:104 Resp: 401
Ion Ratio Lower Upper
104 100
78 118.7 38.4 57.6#
103 63.4 37.0 55.6#

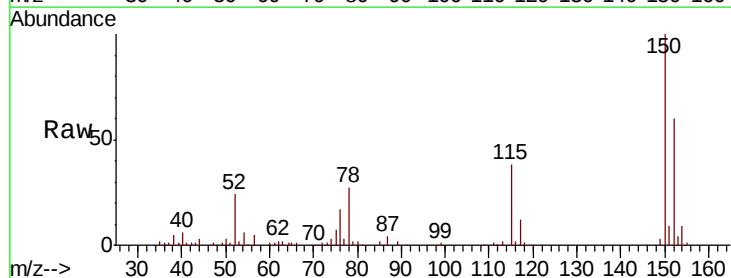


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V

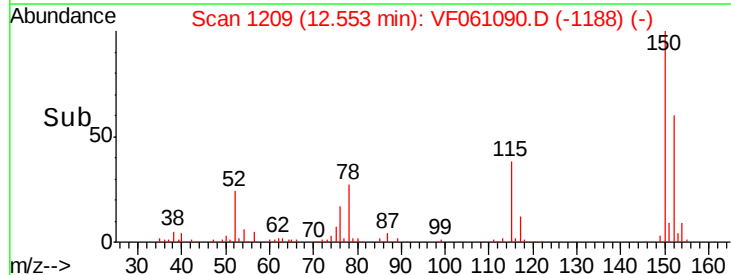
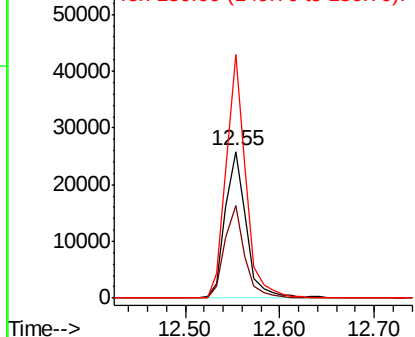


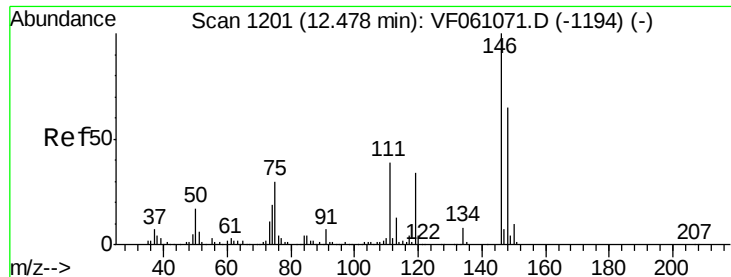
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061090.D
Acq: 19 Dec 2018 17:40

Tgt Ion:152 Resp: 39860
Ion Ratio Lower Upper
152 100
115 63.0 33.3 99.9
150 166.0 0.0 328.2



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

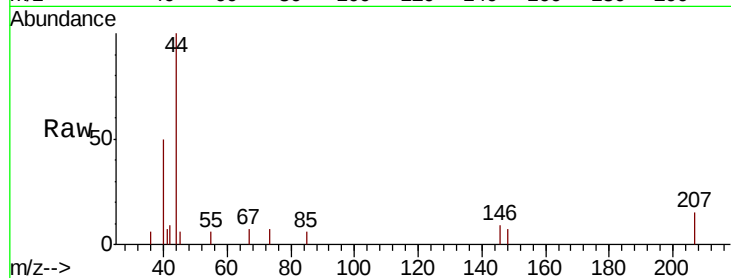




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061090.D
 Acq: 19 Dec 2018 17:40

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.3	57.9#
148	78.5	32.4	97.2



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

