

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\
 Data File : VF059394.D
 Acq On : 2 Jul 2018 18:32
 Operator : VA/AP
 Sample : J3802-08
 Misc : 6.98g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-8(5.0)

Quant Time: Jul 03 01:10:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	98910	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	154413	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	26125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	69914	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	110153	86.20	ug/l	0.00
Spiked Amount			Recovery	=	172.40%	
35) Dibromofluoromethane	4.27	113	88385	78.34	ug/l	0.00
Spiked Amount			Recovery	=	156.68%	
50) Toluene-d8	7.70	98	6837	2.45	ug/l	0.00
Spiked Amount			Recovery	=	4.90%	
62) 4-Bromofluorobenzene	11.49	95	73481	46.63	ug/l	-0.01
Spiked Amount			Recovery	=	93.26%	

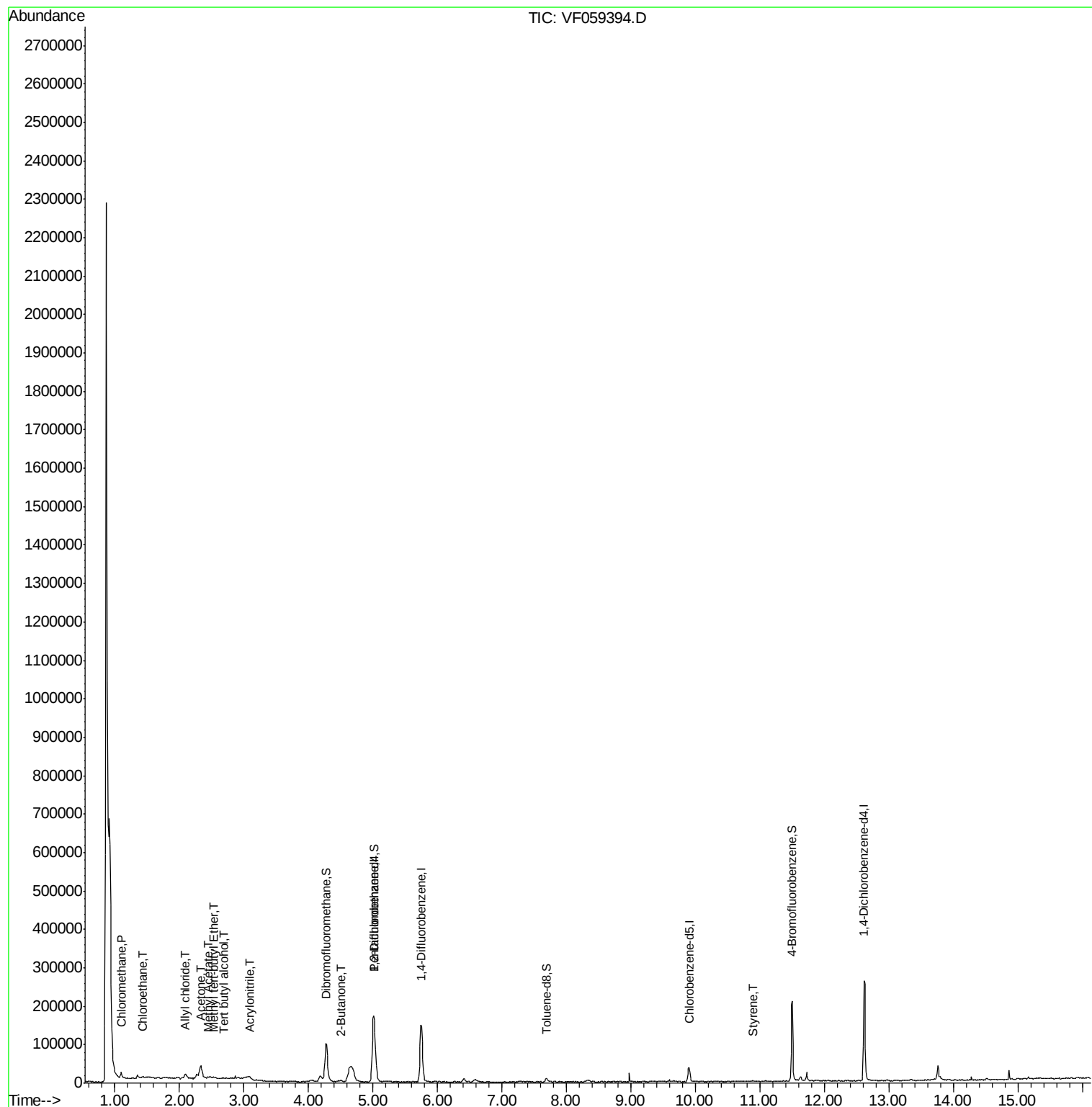
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	1487	2.45	ug/l #	66
5) Bromomethane	1.32	94	924	Below Cal	#	4
6) Chloroethane	1.45	64	434	1.44	ug/l #	1
11) Tert butyl alcohol	2.70	59	1207	14.19	ug/l #	66
13) Acrolein	2.08	56	711	Below Cal	#	1
14) Allyl chloride	2.09	41	5389	4.92	ug/l #	64
15) Acrylonitrile	3.10	53	932	6.22	ug/l #	19
16) Acetone	2.33	43	59653	184.23	ug/l	97
18) Methyl Acetate	2.44	43	3520	5.06	ug/l #	83
19) Methyl tert-butyl Ether	2.54	73	3504	1.61	ug/l #	50
20) Methylene Chloride	2.30	84	2377	Below Cal		95
25) 2-Butanone	4.51	43	4576	9.19	ug/l	95
29) Tetrahydrofuran	4.20	42	151	Below Cal	#	36
37) Ethyl Acetate	4.28	43	332	Below Cal	#	26
59) 2-Hexanone	9.62	43	830	Below Cal	#	30
70) Styrene	10.88	104	768	1.54	ug/l #	56
87) 1,3-Dichlorobenzene	12.55	146	254	Below Cal	#	23

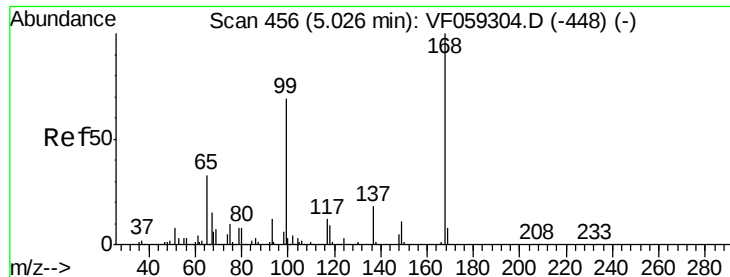
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059394.D

Acq: 2 Jul 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

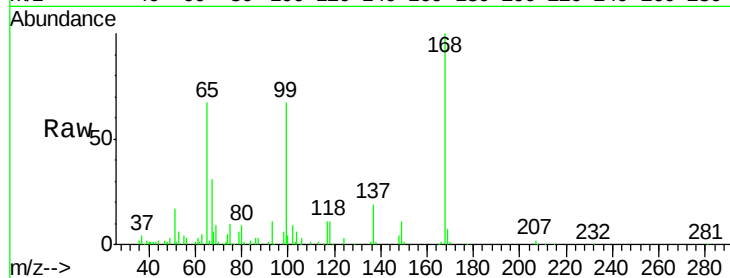
CF-8(5.0)

Tot Ion:168 Resp: 98910

Ion Ratio Lower Upper

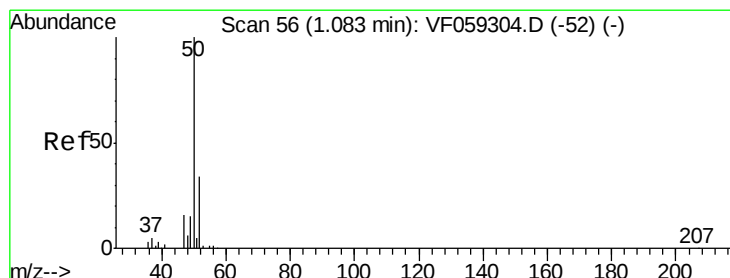
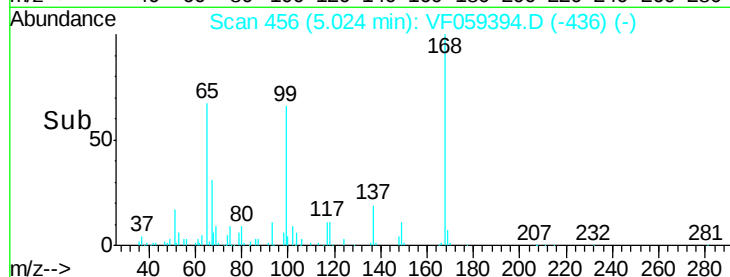
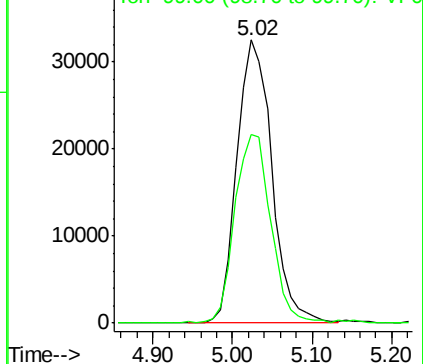
168 100

99 66.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 2.45 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059394.D

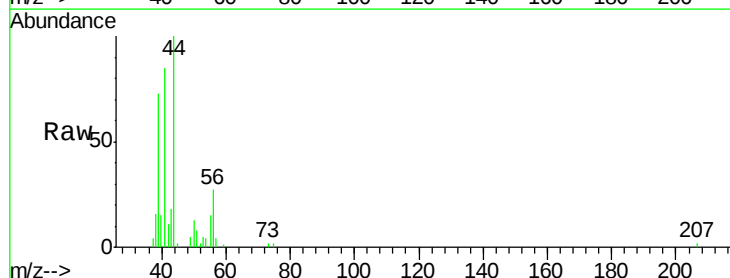
Acq: 2 Jul 2018 18:32

Tgt Ion: 50 Resp: 1487

Ion Ratio Lower Upper

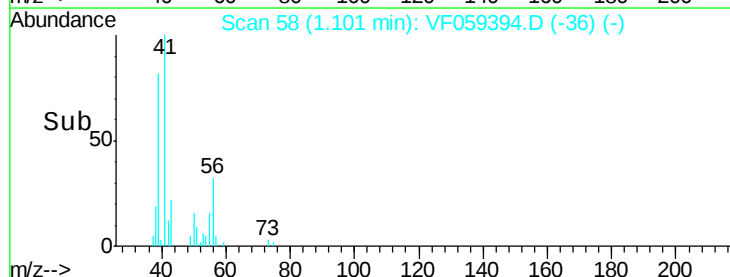
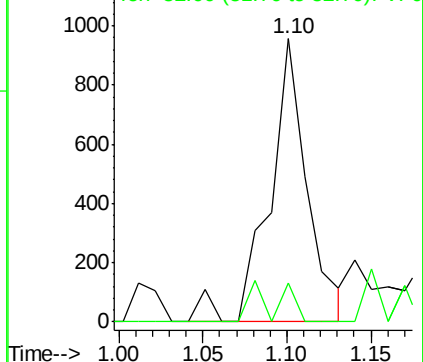
50 100

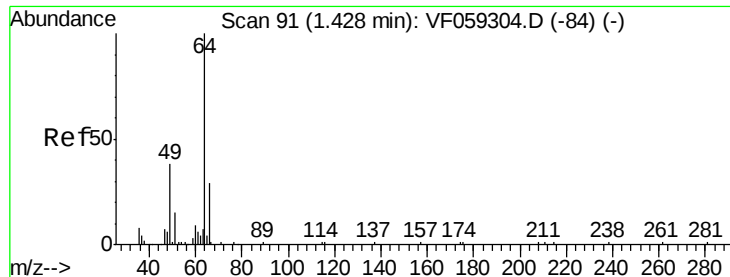
52 13.8 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#6

Chloroethane

Concen: 1.44 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.02 min

Lab File: VF059394.D

Acq: 2 Jul 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

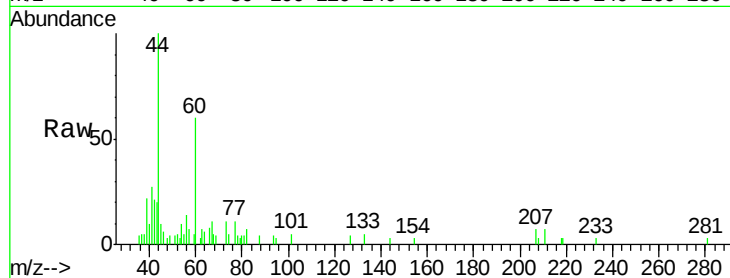
CF-8(5.0)

Tot Ion: 64 Resp: 434

Ion Ratio Lower Upper

64 100

66 128.4 23.9 35.9#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

300

250

200

150

100

50

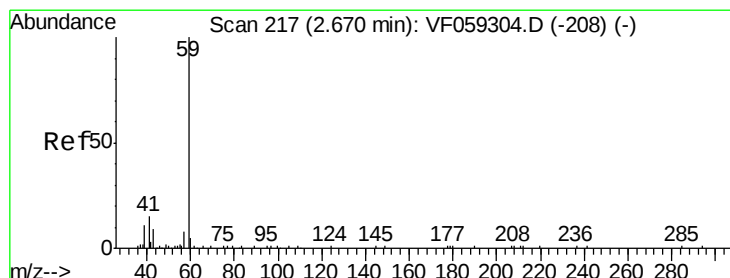
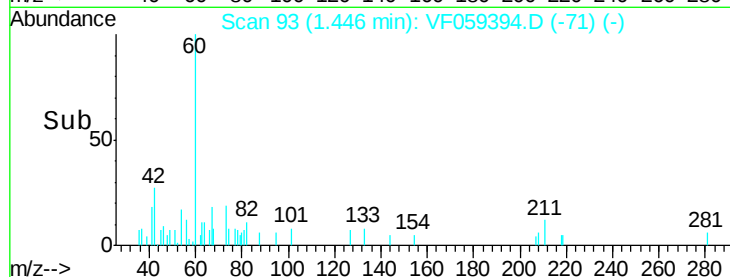
0

1.40

1.45

1.50

Time-->



#11

Tert butyl alcohol

Concen: 14.19 ug/l

RT: 2.70 min Scan# 220

Delta R.T. 0.03 min

Lab File: VF059394.D

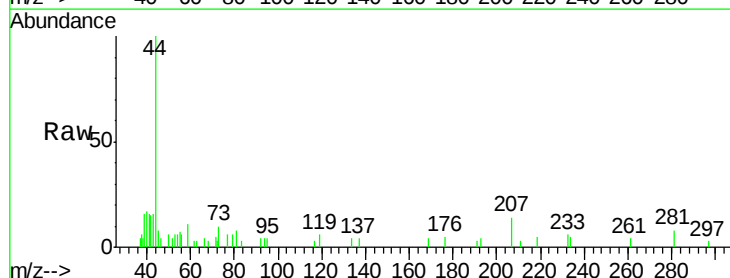
Acq: 2 Jul 2018 18:32

Tgt Ion: 59 Resp: 1207

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

400

300

200

100

0

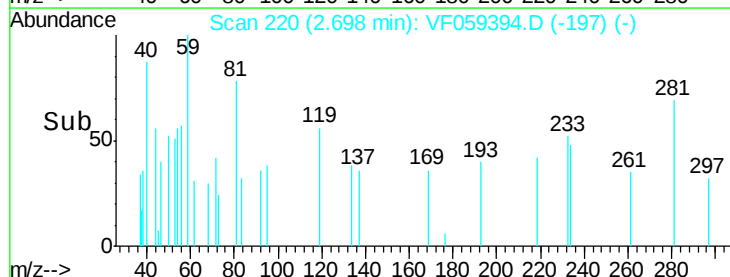
2.60

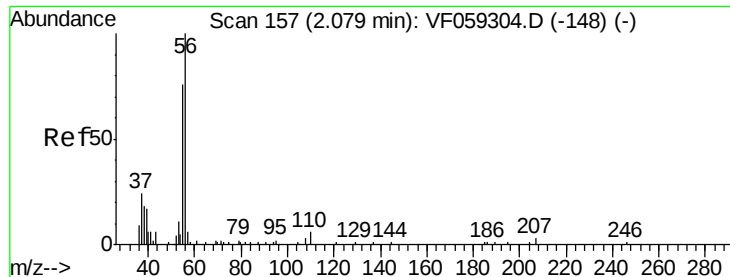
2.65

2.70

2.75

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.08 min Scan# 157

Delta R.T. -0.00 min

Lab File: VF059394.D

Acq: 2 Jul 2018 18:32

Instrument :

MSVOA_F

ClientSampled :

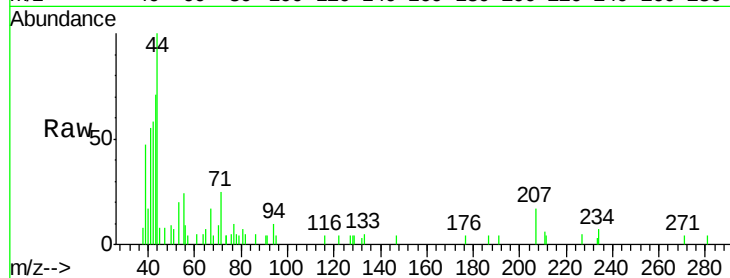
CF-8(5.0)

Tot Ion: 56 Resp: 711

Ion Ratio Lower Upper

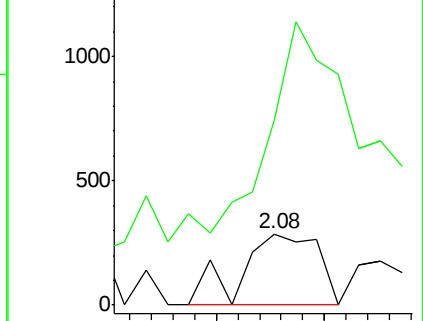
56 100

55 260.1 62.4 93.6#

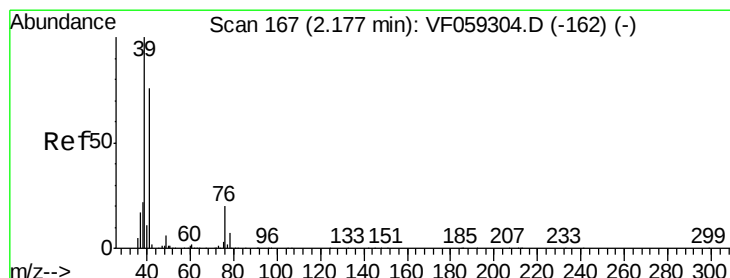
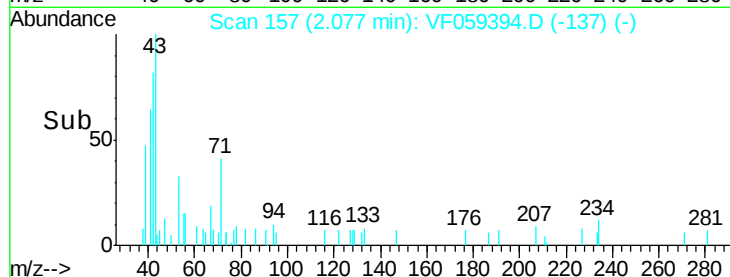


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#14

Allyl chloride

Concen: 4.92 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.09 min

Lab File: VF059394.D

Acq: 2 Jul 2018 18:32

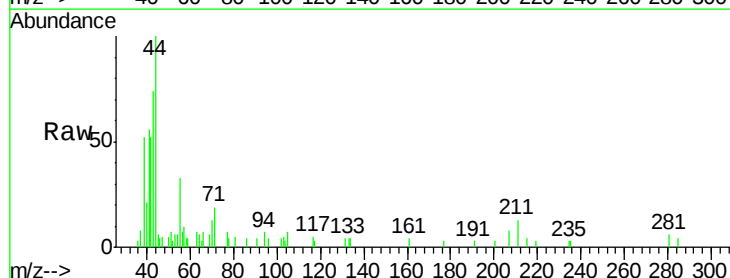
Tgt Ion: 41 Resp: 5389

Ion Ratio Lower Upper

41 100

39 93.6 105.6 158.4#

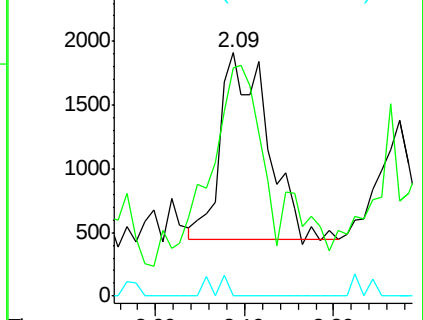
76 0.0 21.6 32.4#



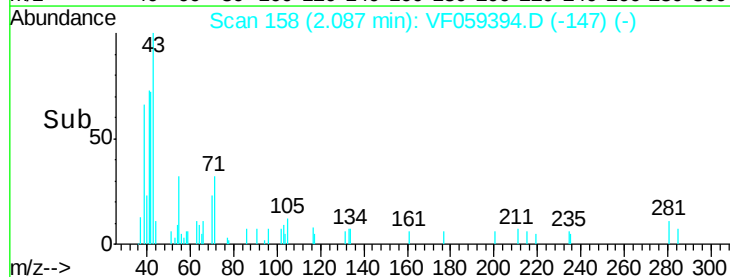
Abundance Ion 41.00 (40.70 to 41.70): VF0

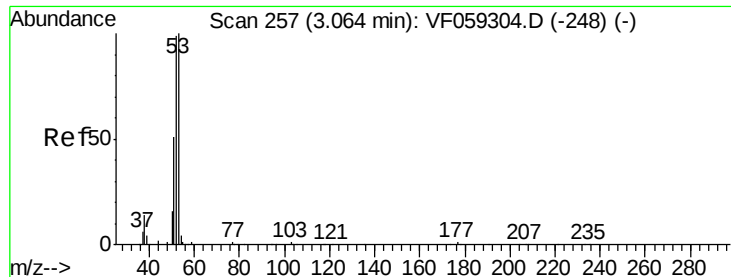
Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



Time-->





#15

Acrylonitrile

Concen: 6.22 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.04 min

Lab File: VF059394.D

Acq: 2 Jul 2018 18:32

Instrument :

MSVOA_F

ClientSampleID :

CF-8(5.0)

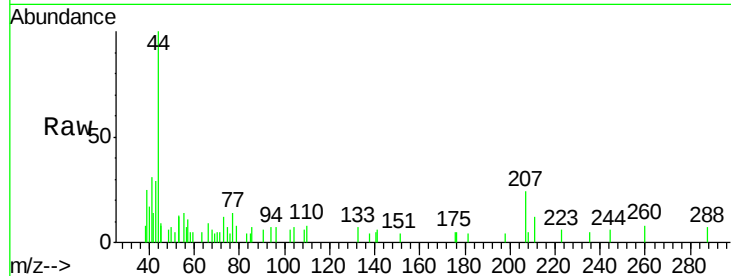
Tot Ion: 53 Resp: 932

Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

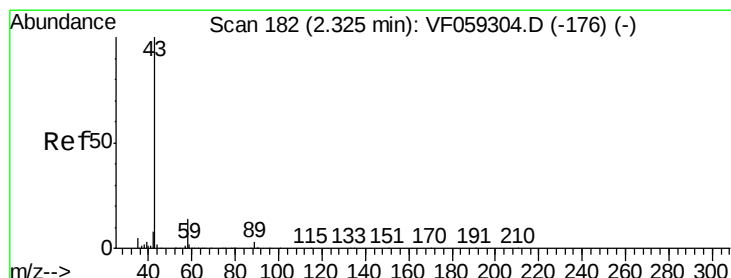
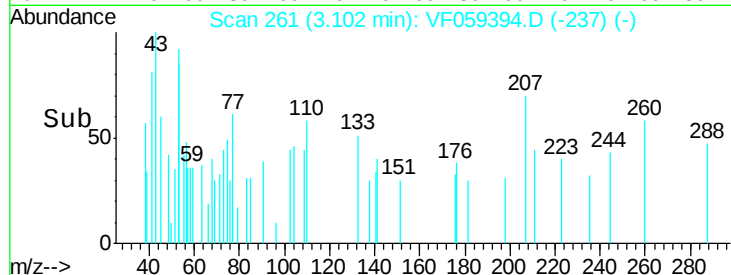
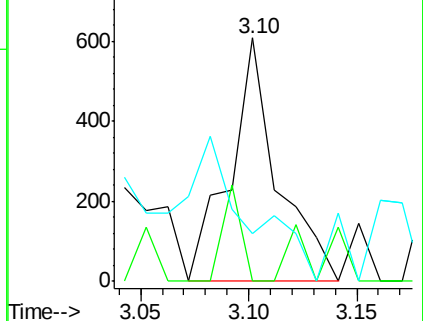
51 19.6 40.9 61.3#



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: 184.23 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059394.D

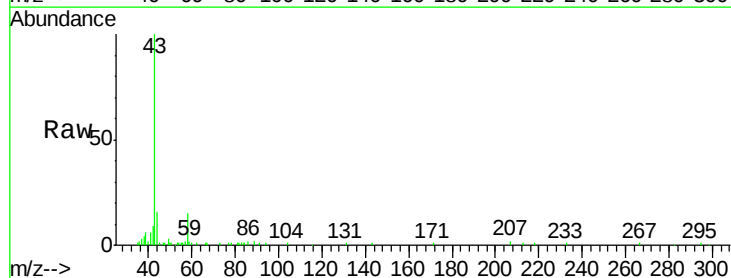
Acq: 2 Jul 2018 18:32

Tgt Ion: 43 Resp: 59653

Ion Ratio Lower Upper

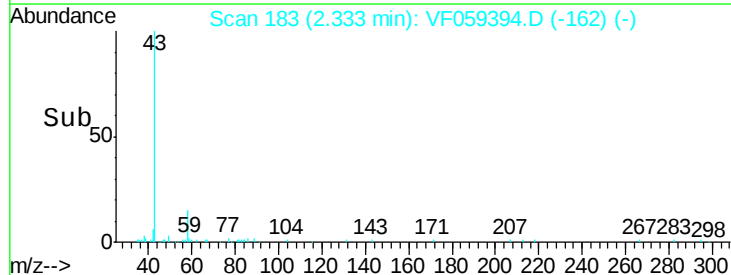
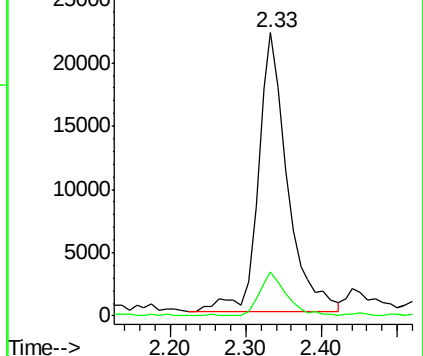
43 100

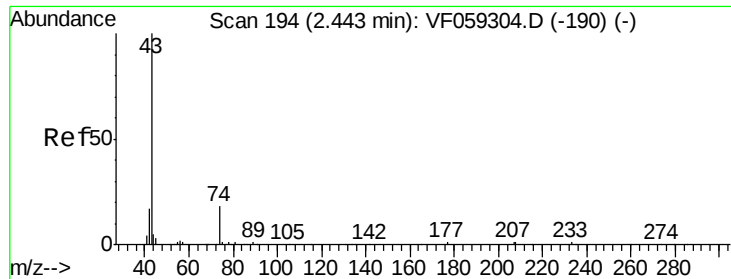
58 15.5 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

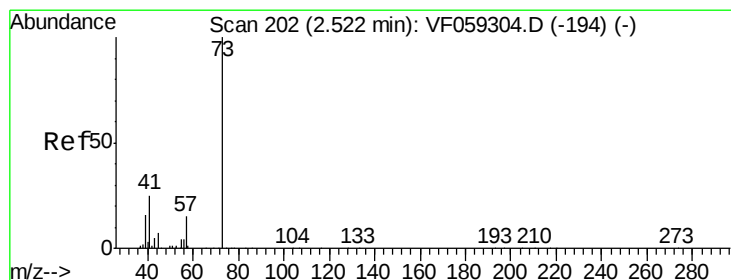
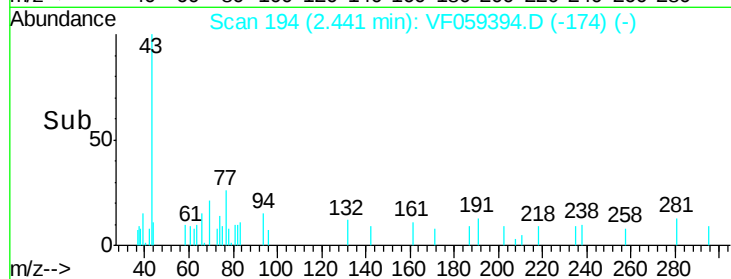
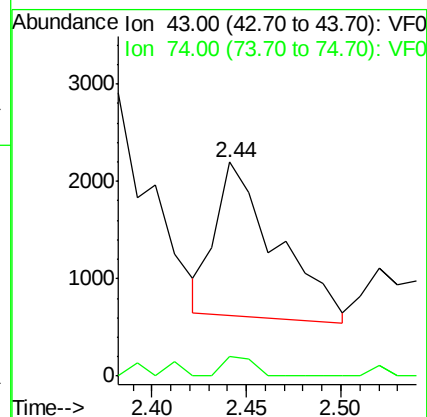
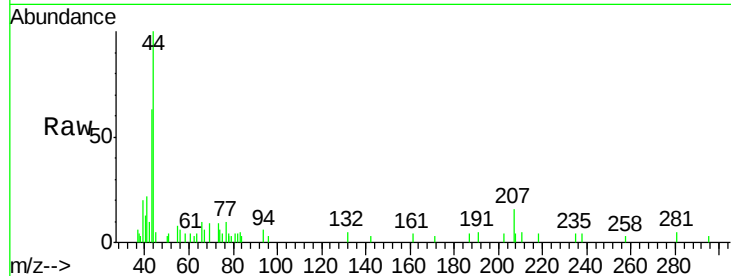




#18
Methyl Acetate
Concen: 5.06 ug/l
RT: 2.44 min Scan# 194
Delta R.T. -0.00 min
Lab File: VF059394.D
Acq: 2 Jul 2018 18:32

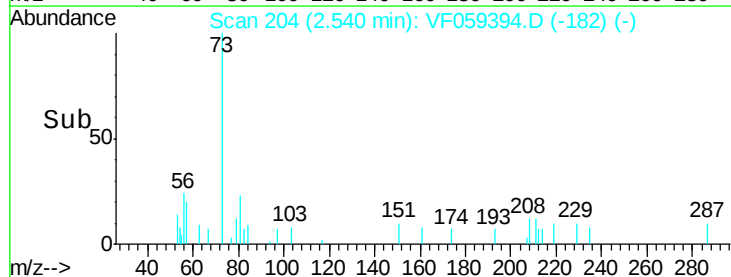
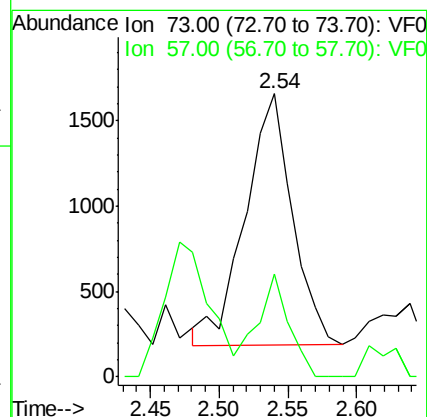
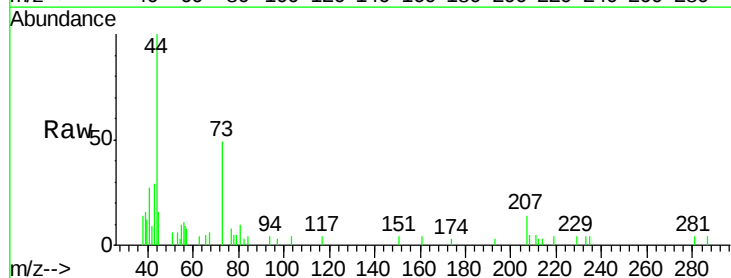
Instrument :
MSVOA_F
ClientSampled :
CF-8(5.0)

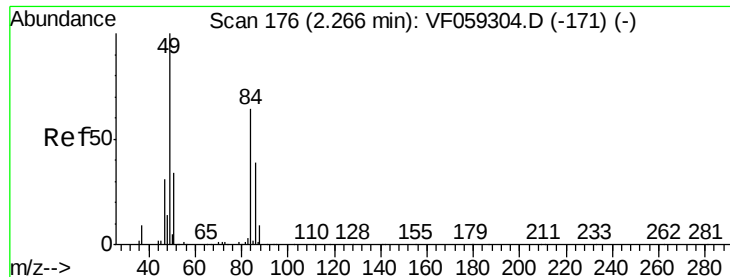
Tot Ion: 43 Resp: 3520
Ion Ratio Lower Upper
43 100
74 9.4 13.3 19.9#



#19
Methyl tert-butyl Ether
Concen: 1.61 ug/l
RT: 2.54 min Scan# 204
Delta R.T. 0.02 min
Lab File: VF059394.D
Acq: 2 Jul 2018 18:32

Tgt Ion: 73 Resp: 3504
Ion Ratio Lower Upper
73 100
57 36.4 12.3 18.5#



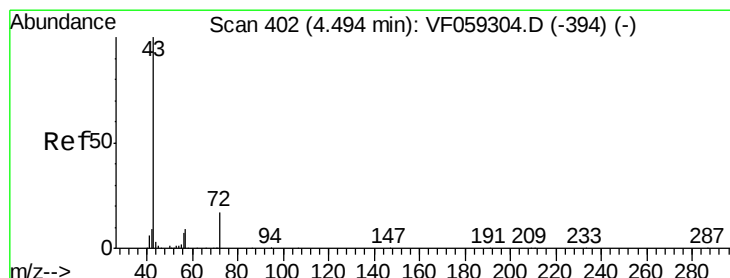
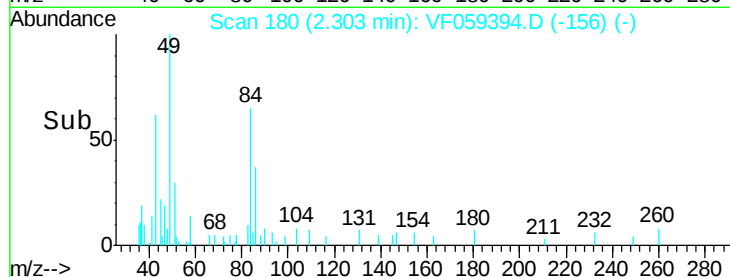
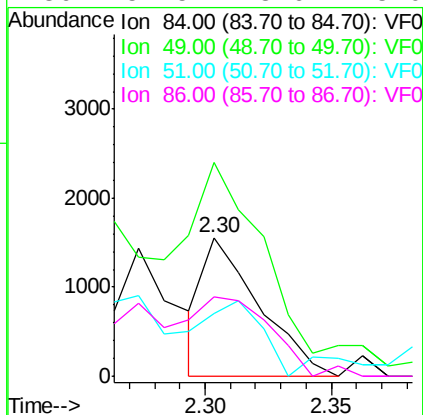
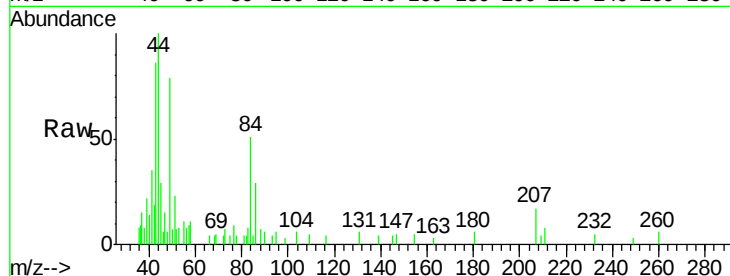


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.30 min Scan# 180
 Delta R.T. 0.04 min
 Lab File: VF059394.D
 Acq: 2 Jul 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-8(5.0)

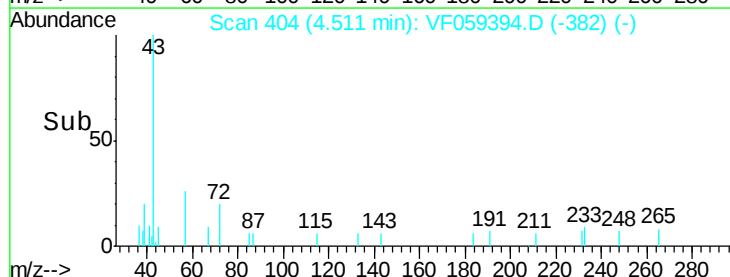
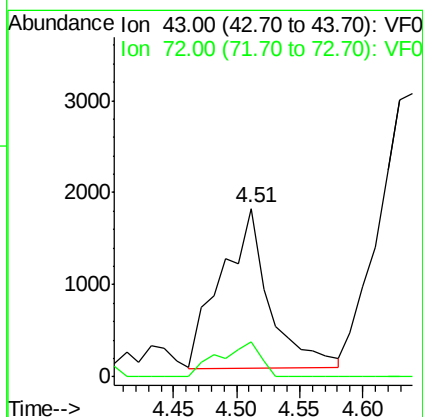
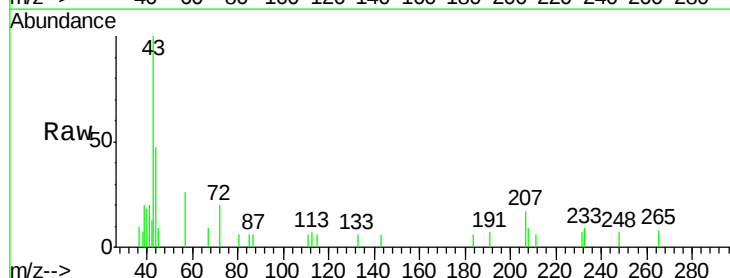
Tot Ion:	84	Resp:	2377
Ion	Ratio	Lower	Upper
84	100		
49	154.1	126.5	189.7
51	45.7	42.9	64.3
86	57.5	48.6	73.0

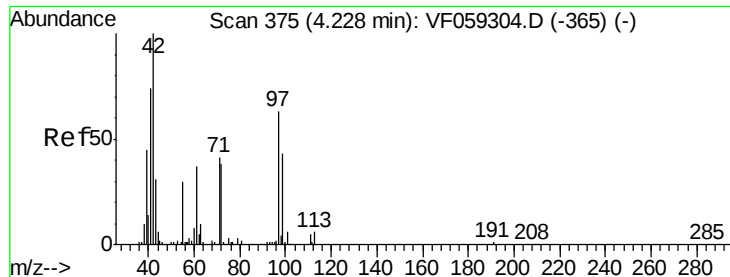


#25

2-Butanone
 Concen: 9.19 ug/l
 RT: 4.51 min Scan# 404
 Delta R.T. 0.02 min
 Lab File: VF059394.D
 Acq: 2 Jul 2018 18:32

Tgt Ion:	43	Resp:	4576
Ion	Ratio	Lower	Upper
43	100		
72	20.4	14.4	21.6





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.20 min Scan# 372

Delta R.T. -0.03 min

Lab File: VF059394.D

Acq: 2 Jul 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

CF-8(5.0)

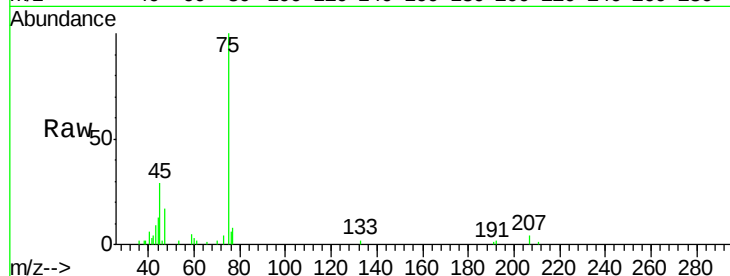
Tot Ion: 42 Resp: 151

Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

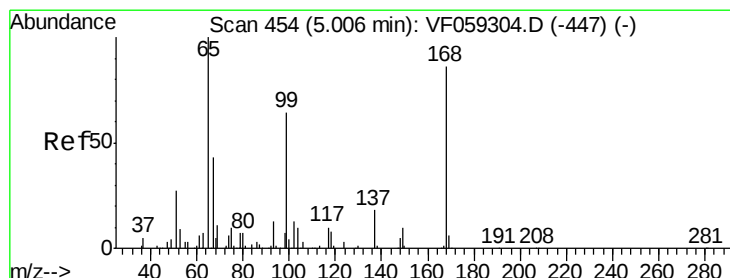
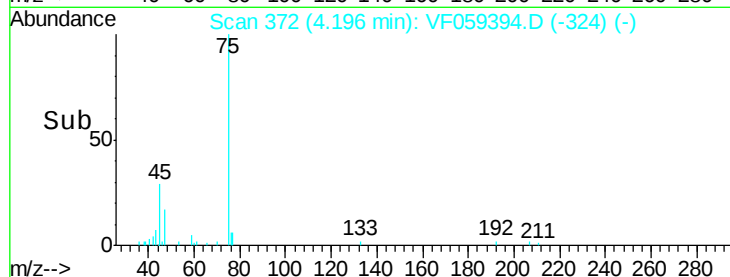
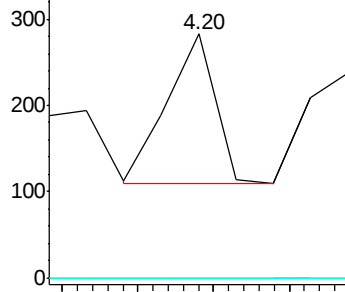
71 0.0 32.5 48.7#



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: 86.20 ug/l

RT: 5.00 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF059394.D

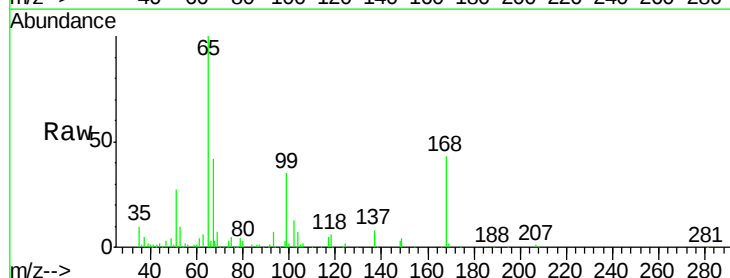
Acq: 2 Jul 2018 18:32

Tgt Ion: 65 Resp: 110153

Ion Ratio Lower Upper

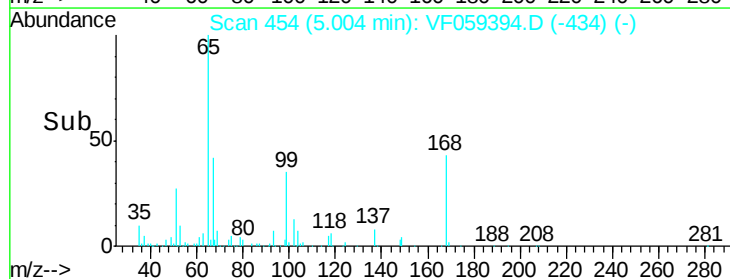
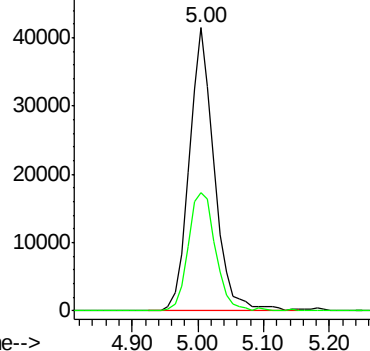
65 100

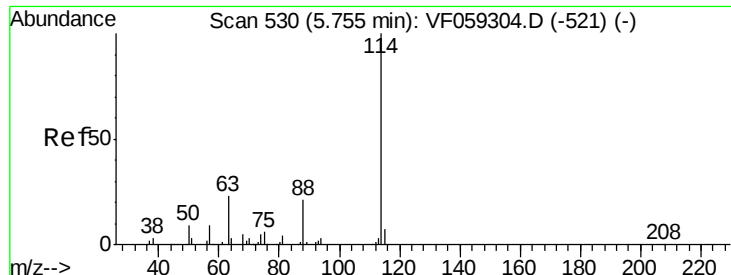
67 41.8 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059394.D

Acq: 2 Jul 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

CF-8(5.0)

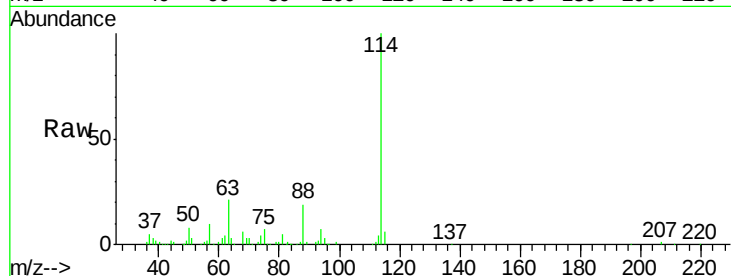
Tot Ion:114 Resp: 154413

Ion Ratio Lower Upper

114 100

63 21.1 0.0 45.8

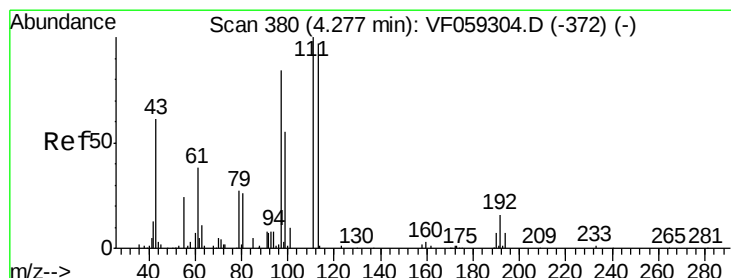
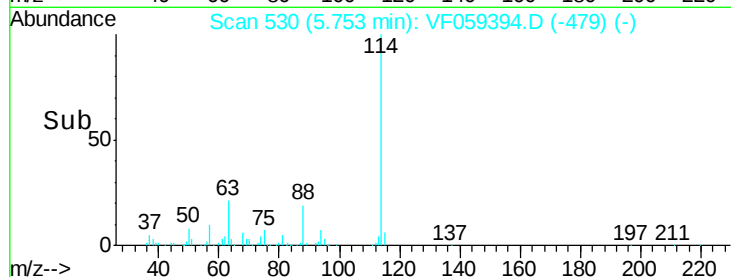
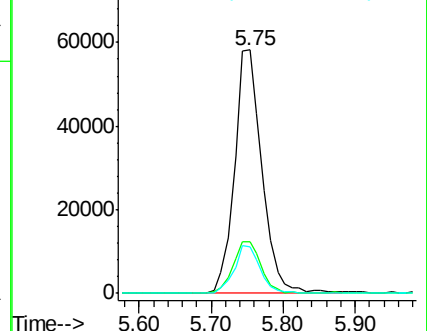
88 19.0 0.0 41.2



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: 78.34 ug/l

RT: 4.27 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059394.D

Acq: 2 Jul 2018 18:32

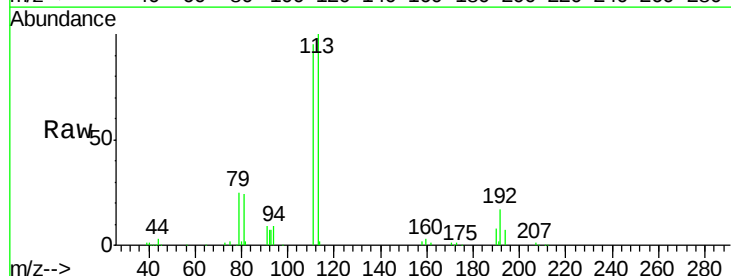
Tgt Ion:113 Resp: 88385

Ion Ratio Lower Upper

113 100

111 95.1 82.1 123.1

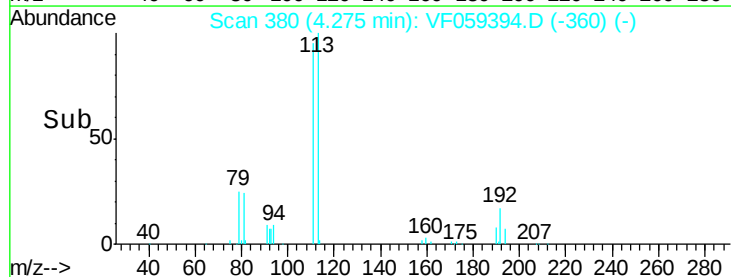
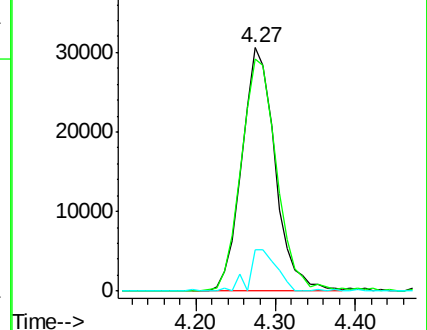
192 16.9 13.0 19.6

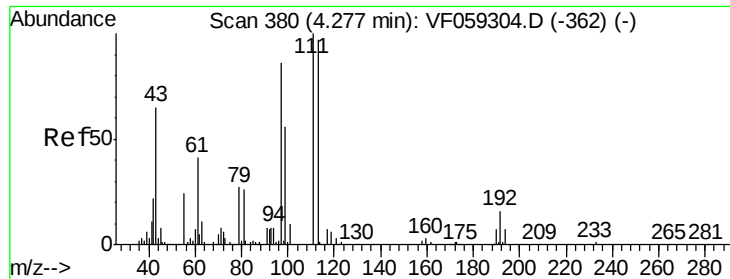


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: Below Cal

RT: 4.28 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF059394.D

Acq: 2 Jul 2018 18:32

Instrument :

MSVOA_F

ClientSampleId :

CF-8(5.0)

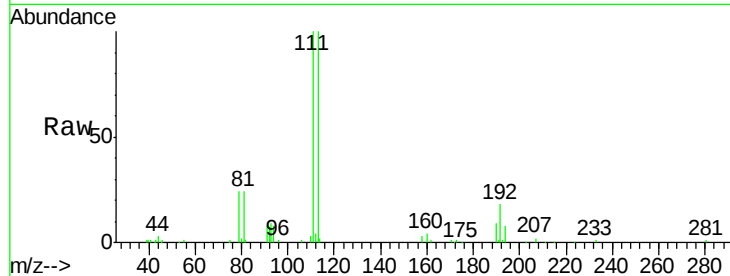
Tot Ion: 43 Resp: 332

Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

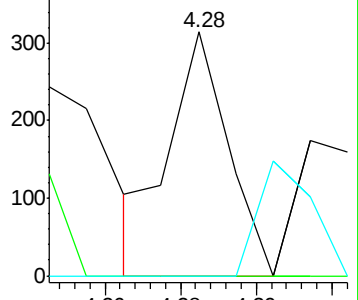
70 0.0 6.2 9.4#



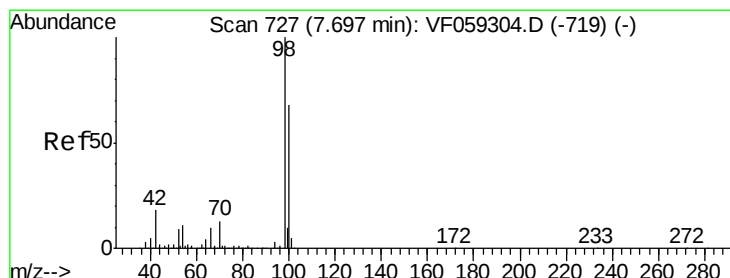
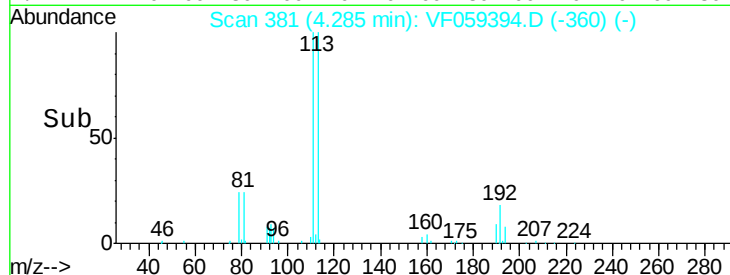
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



Time-->



#50

Toluene-d8

Concen: 2.45 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF059394.D

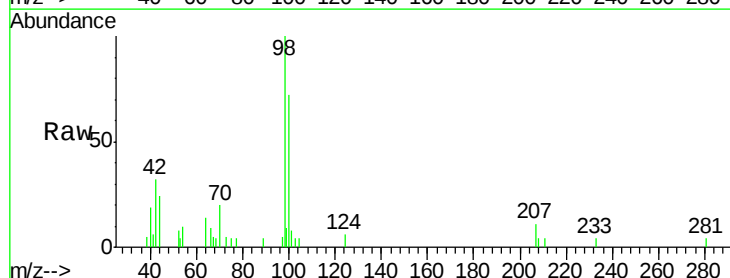
Acq: 2 Jul 2018 18:32

Tgt Ion: 98 Resp: 6837

Ion Ratio Lower Upper

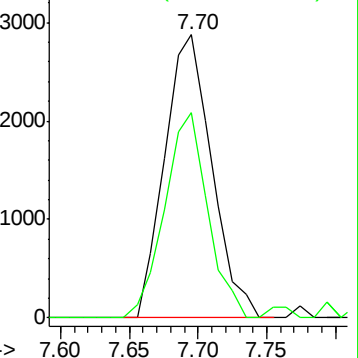
98 100

100 72.4 54.6 82.0

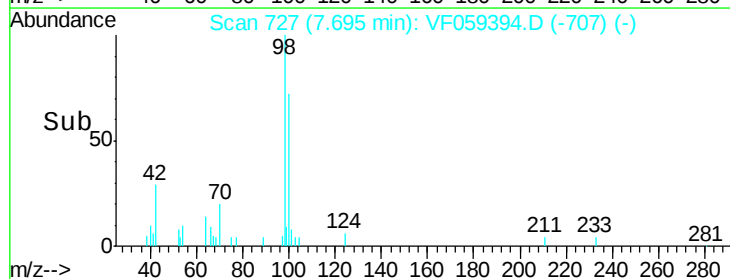


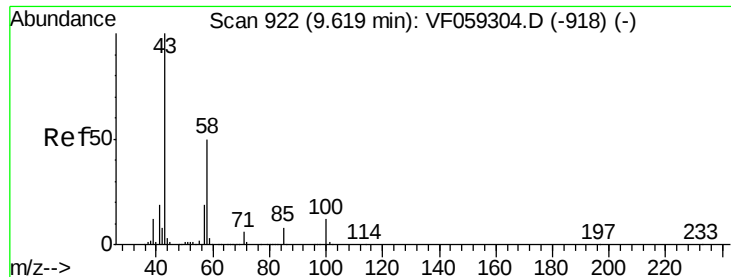
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->

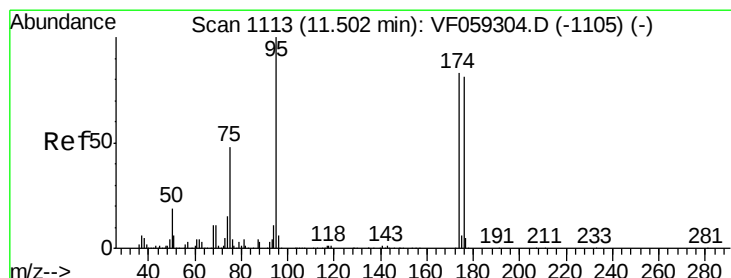
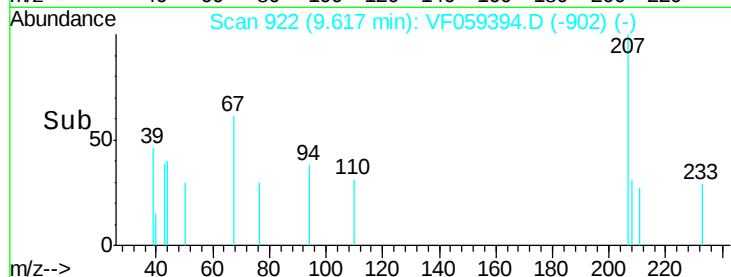
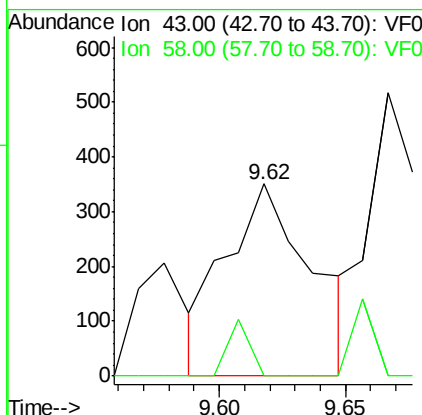
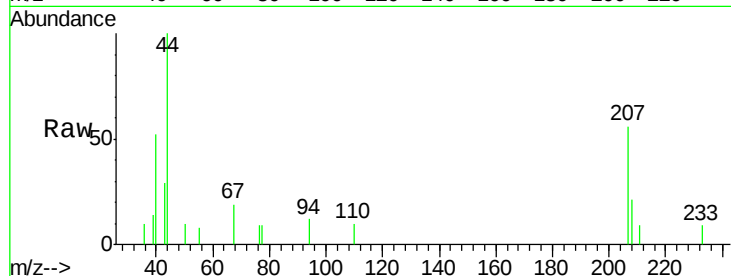




#59
2-Hexanone
Concen: Below Cal
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VF059394.D
Acq: 2 Jul 2018 18:32

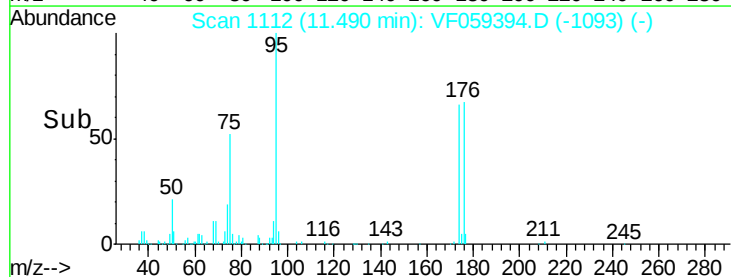
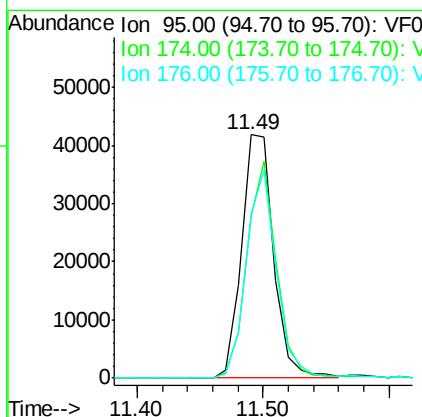
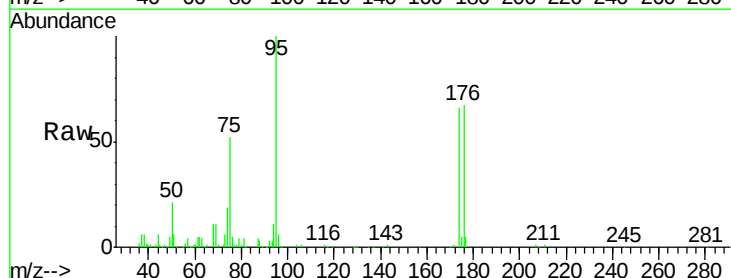
Instrument :
MSVOA_F
ClientSampled :
CF-8(5.0)

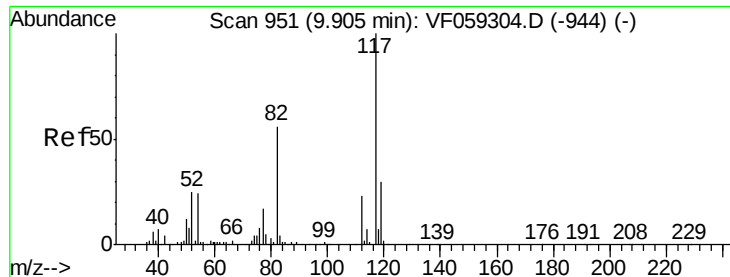
Tot Ion: 43 Resp: 830
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 46.63 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF059394.D
Acq: 2 Jul 2018 18:32

Tgt Ion: 95 Resp: 73481
Ion Ratio Lower Upper
95 100
174 66.2 0.0 165.2
176 67.4 0.0 161.0

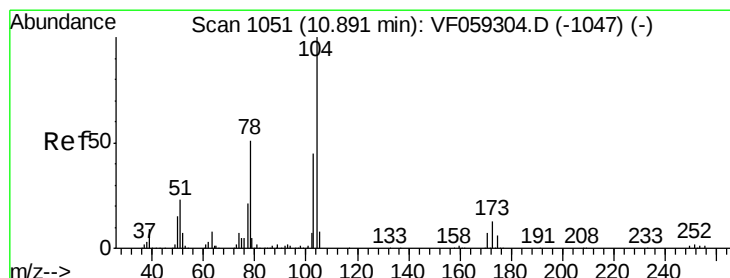
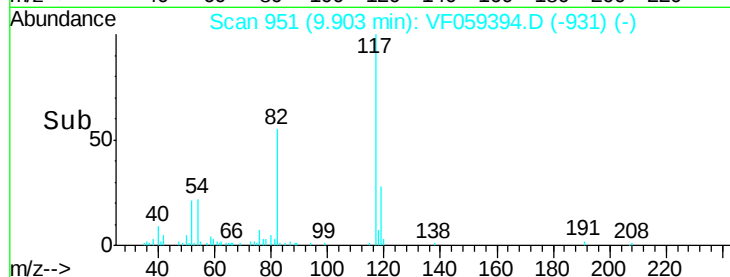
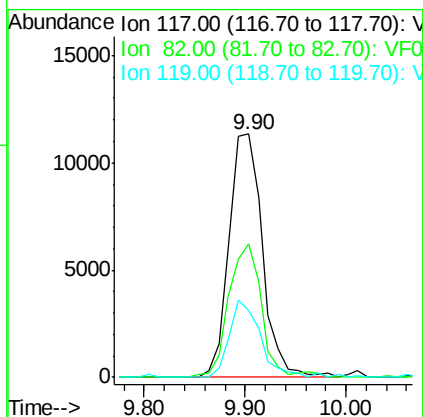
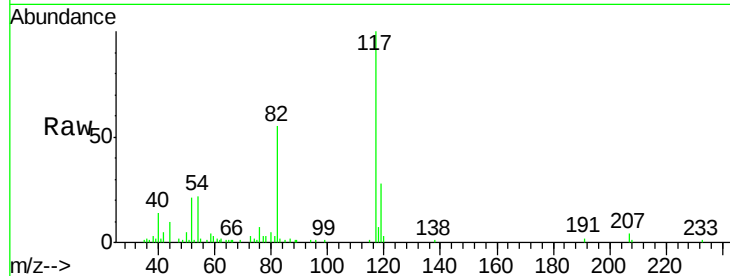




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059394.D
Acq: 2 Jul 2018 18:32

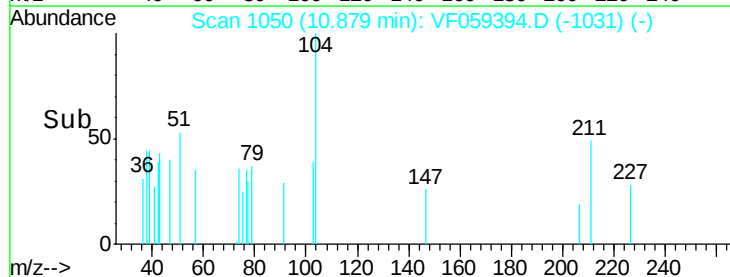
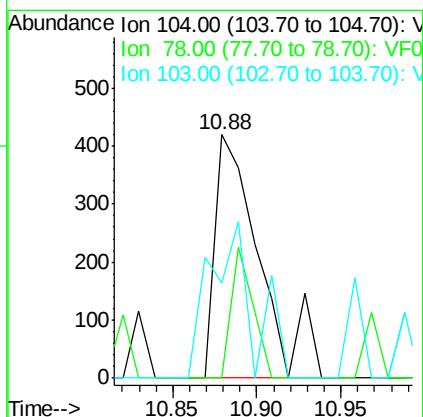
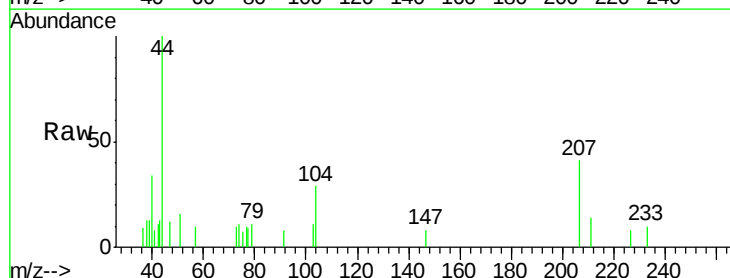
Instrument :
MSVOA_F
ClientSampleId :
CF-8(5.0)

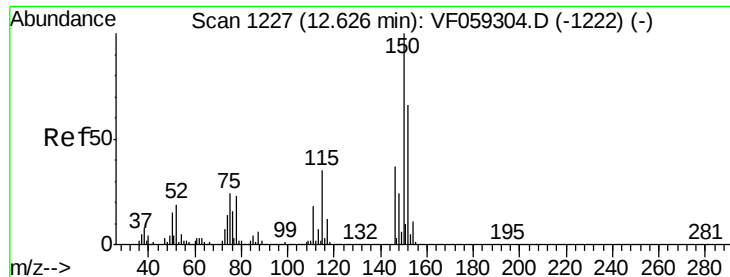
Tot Ion:117 Resp: 26125
Ion Ratio Lower Upper
117 100
82 55.0 44.6 66.8
119 27.7 24.1 36.1



#70
Styrene
Concen: 1.54 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VF059394.D
Acq: 2 Jul 2018 18:32

Tgt Ion:104 Resp: 768
Ion Ratio Lower Upper
104 100
78 0.0 40.9 61.3#
103 38.8 36.5 54.7

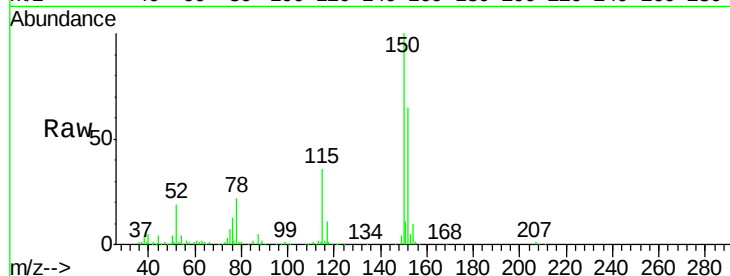




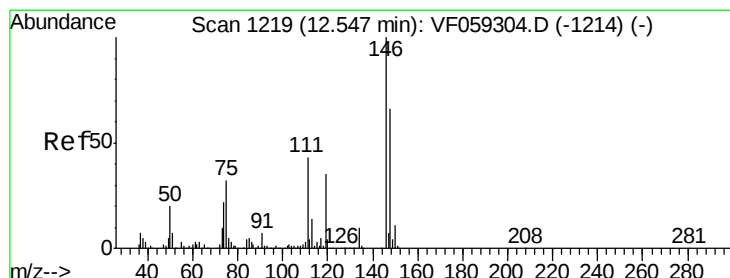
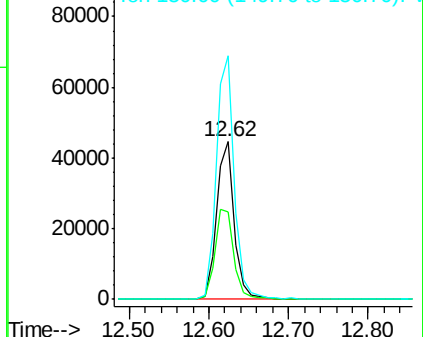
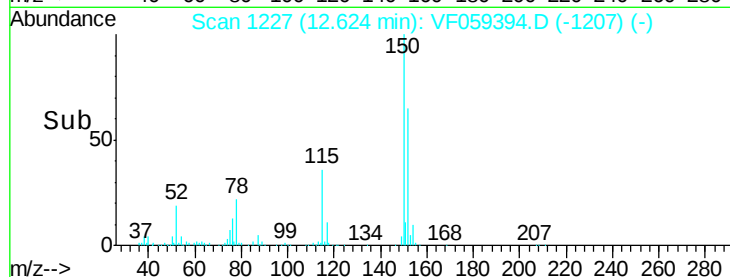
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.62 min Scan# 1227
 Delta R.T. -0.00 min
 Lab File: VF059394.D
 Acq: 2 Jul 2018 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-8(5.0)

Tot Ion:152 Resp: 69914
 Ion Ratio Lower Upper
 152 100
 115 55.8 27.1 81.3
 150 154.3 0.0 305.2

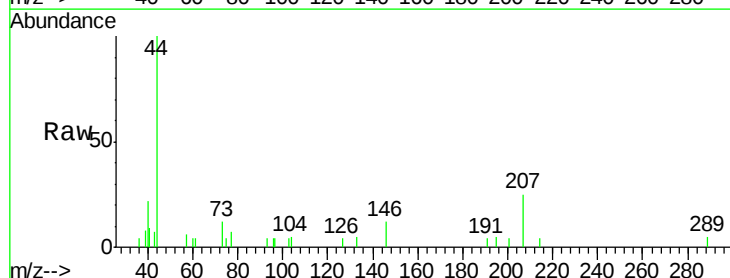


Abundance Ion 152.00 (151.70 to 152.70): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 150.00 (149.70 to 150.70): V



#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VF059394.D
 Acq: 2 Jul 2018 18:32

Tgt Ion:146 Resp: 254
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.4 64.2#
 148 0.0 32.8 98.4#



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

