

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082018\
 Data File : VF060007.D
 Acq On : 20 Aug 2018 17:32
 Operator : VA/AP
 Sample : J4282-09
 Misc : 4.19g/5mL/MSVOA F/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SU-04-081718

Quant Time: Aug 21 04:27:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 18 01:11:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	6644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	5410	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	3972	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	909	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	1196	9.33	ug/l	-0.03
Spiked Amount			Recovery	=	18.66%	
35) Dibromofluoromethane	4.29	113	1639	29.64	ug/l	-0.02
Spiked Amount			Recovery	=	59.28%	
50) Toluene-d8	7.71	98	5533	45.00	ug/l	0.00
Spiked Amount			Recovery	=	90.00%	
62) 4-Bromofluorobenzene	11.51	95	1254	16.62	ug/l	0.00
Spiked Amount			Recovery	=	33.24%	

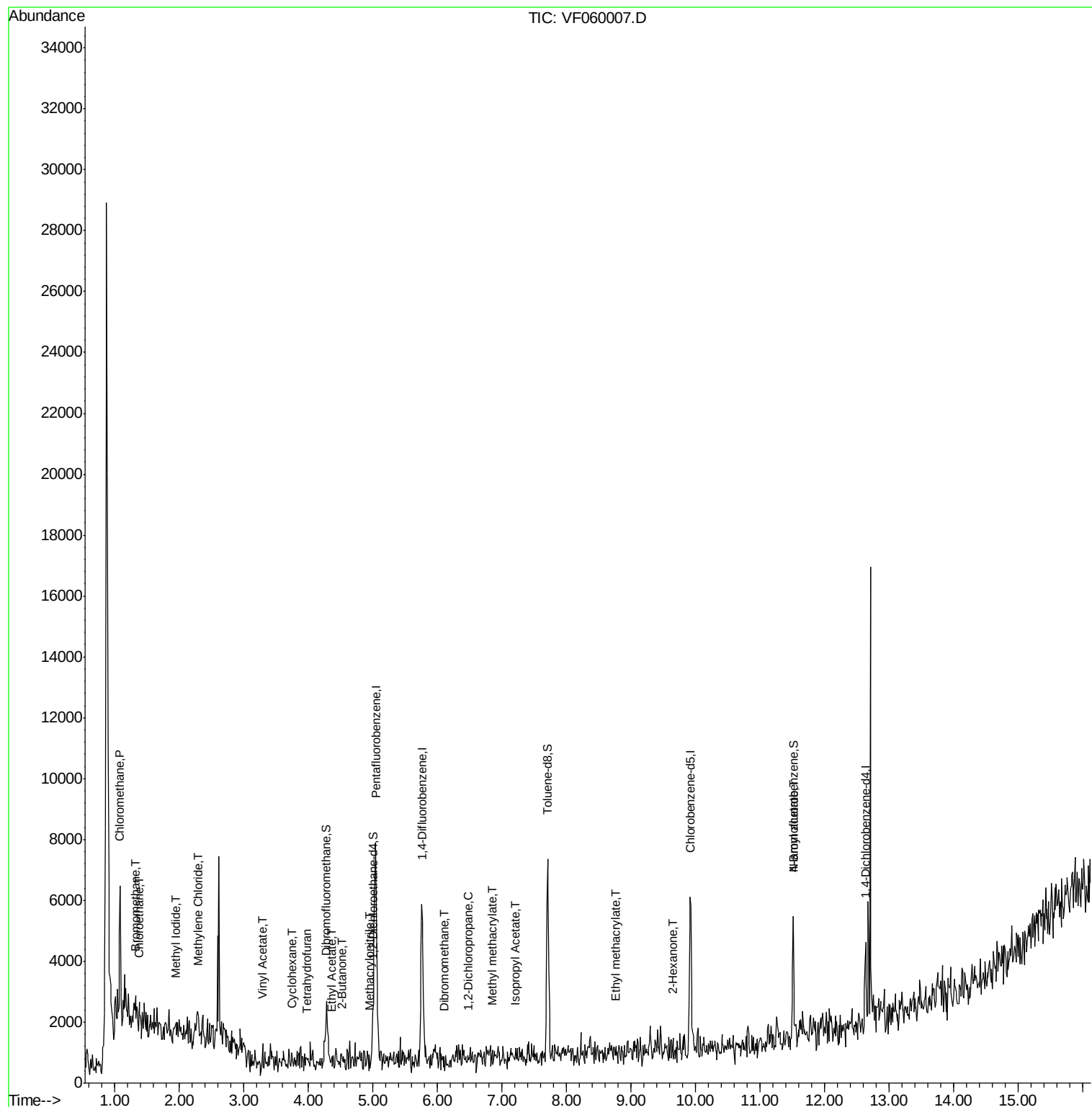
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	436	6.54	ug/l #	45
5) Bromomethane	1.32	94	229	2.94	ug/l #	65
6) Chloroethane	1.38	64	335	9.59	ug/l #	44
10) Methyl Iodide	1.94	142	156	1.37	ug/l #	47
16) Acetone	2.35	43	171	Below Cal	#	64
18) Methyl Acetate	2.46	43	73	Below Cal	#	63
20) Methylene Chloride	2.28	84	376	1.33	ug/l #	24
23) Vinyl Acetate	3.30	43	144	1.58	ug/l #	84
25) 2-Butanone	4.50	43	83	2.68	ug/l #	63
29) Tetrahydrofuran	3.97	42	174	15.73	ug/l #	38
31) Cyclohexane	3.73	56	70	1.03	ug/l #	15
37) Ethyl Acetate	4.36	43	62	1.82	ug/l #	1
41) Methacrylonitrile	4.95	41	82	5.03	ug/l #	19
43) Isopropyl Acetate	7.19	43	213	5.68	ug/l #	58
45) 1,2-Dichloropropane	6.48	63	63	2.11	ug/l #	43
46) Dibromomethane	6.09	93	59	2.01	ug/l #	2
48) Methyl methacrylate	6.84	41	70	2.51	ug/l #	14
56) Ethyl methacrylate	8.77	69	65	1.79	ug/l #	11
59) 2-Hexanone	9.64	43	173	5.98	ug/l #	35
74) N-amyl acetate	11.51	43	87	5.63	ug/l #	49

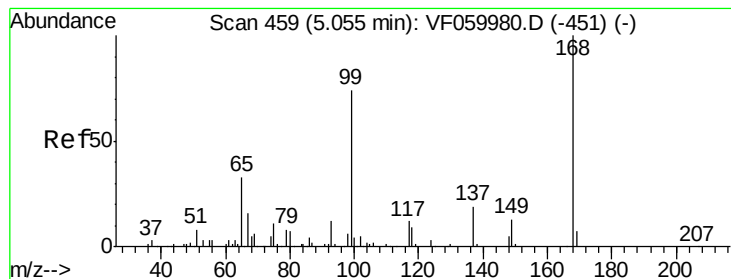
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

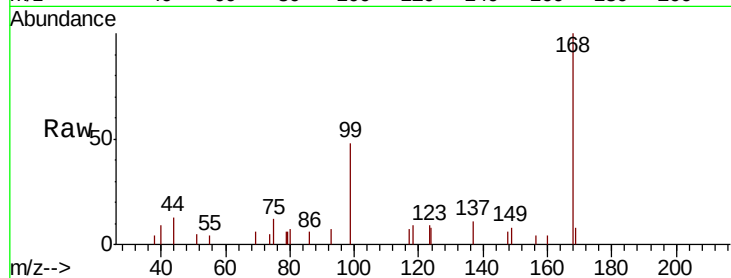
SU-04-081718

Tot Ion:168 Resp: 6644

Ion Ratio Lower Upper

168 100

99 47.9 59.0 88.6#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

2500

2000

1500

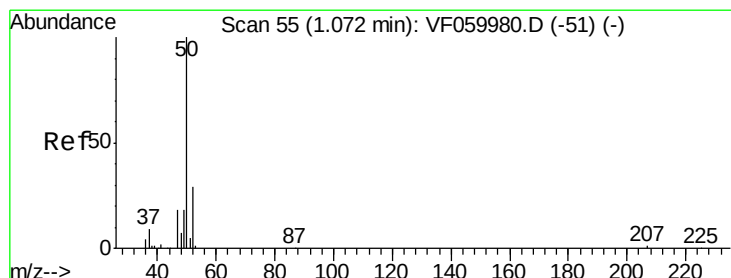
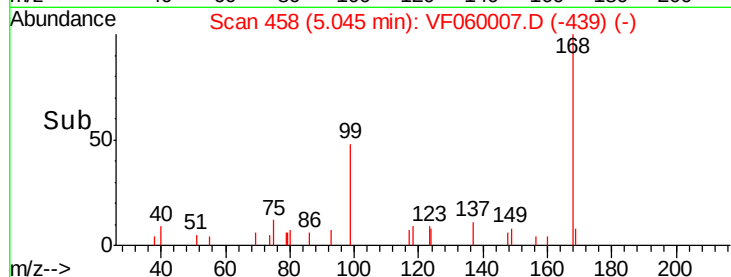
1000

500

0

4.95 5.00 5.05 5.10 5.15

Time-->



#3

Chloromethane

Concen: 6.54 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF060007.D

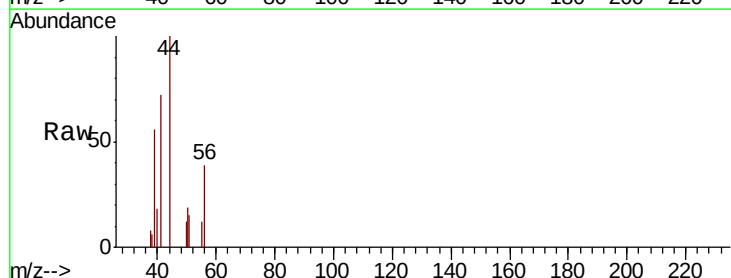
Acq: 20 Aug 2018 17:32

Tgt Ion: 50 Resp: 436

Ion Ratio Lower Upper

50 100

52 0.0 23.6 35.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

400

300

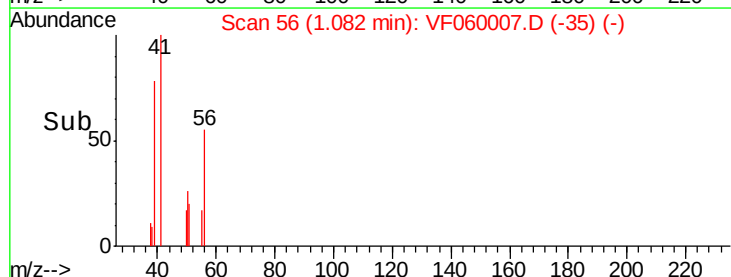
200

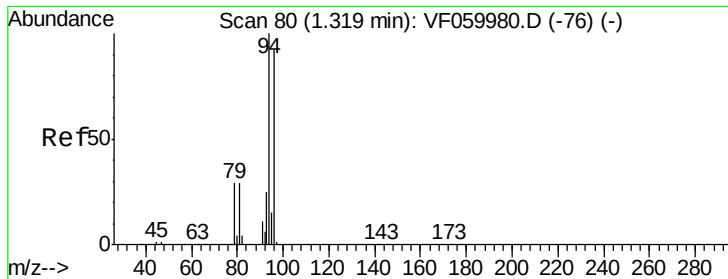
100

0

1.05 1.10 1.15

Time-->





#5

Bromomethane

Concen: 2.94 ug/l

RT: 1.32 min Scan# 80

Delta R.T. 0.00 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

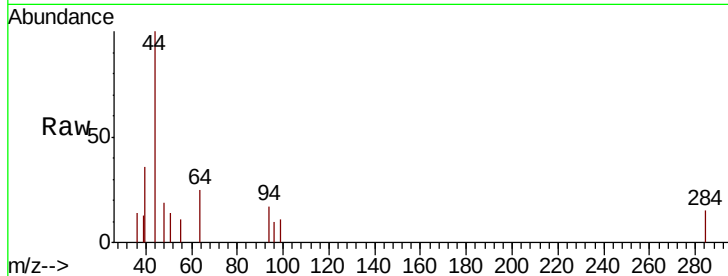
SU-04-081718

Tot Ion: 94 Resp: 229

Ion Ratio Lower Upper

94 100

96 58.7 73.9 110.9#



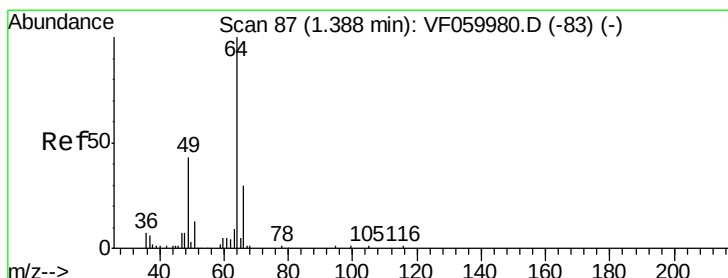
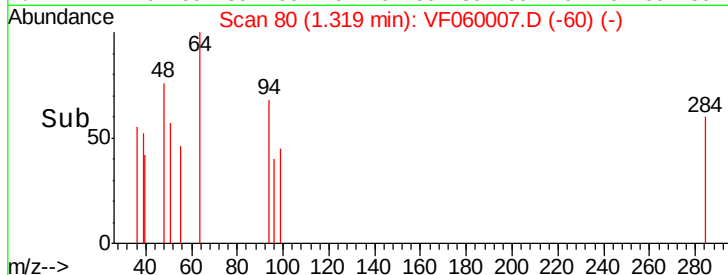
Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.32

1.35

Time-->



#6

Chloroethane

Concen: 9.59 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.01 min

Lab File: VF060007.D

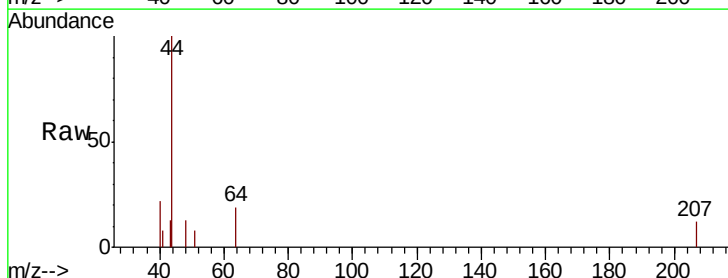
Acq: 20 Aug 2018 17:32

Tgt Ion: 64 Resp: 335

Ion Ratio Lower Upper

64 100

66 0.0 24.4 36.6#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

500

400

300

200

100

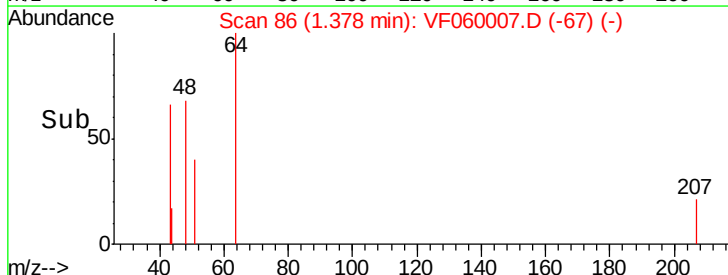
0

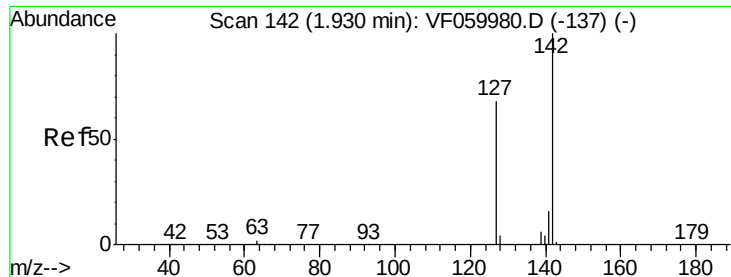
1.36

1.38

1.40

Time-->





#10

Methyl Iodide

Concen: 1.37 ug/l

RT: 1.94 min Scan# 143

Delta R.T. 0.01 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

SU-04-081718

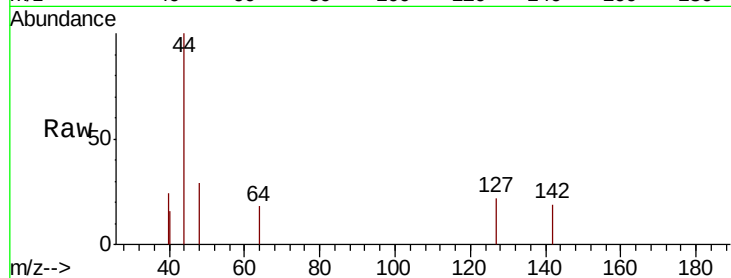
Tot Ion:142 Resp: 156

Ion Ratio Lower Upper

142 100

127 113.0 54.1 81.1#

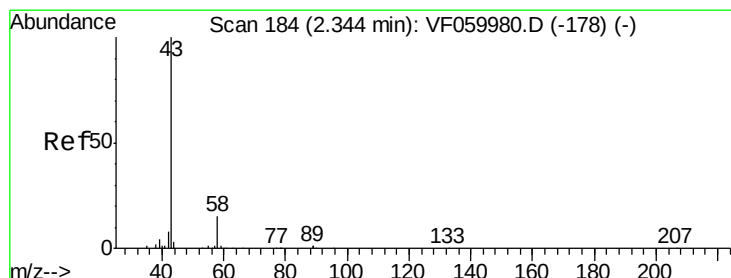
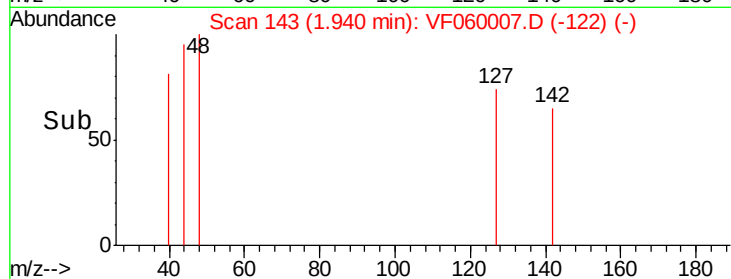
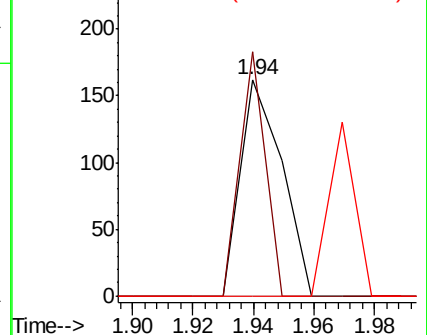
141 0.0 12.5 18.7#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



#16

Acetone

Concen: Below Cal

RT: 2.35 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF060007.D

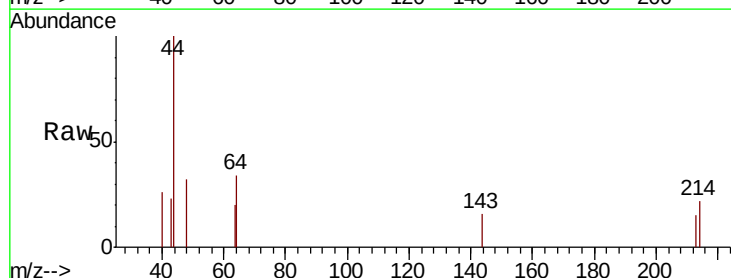
Acq: 20 Aug 2018 17:32

Tgt Ion: 43 Resp: 171

Ion Ratio Lower Upper

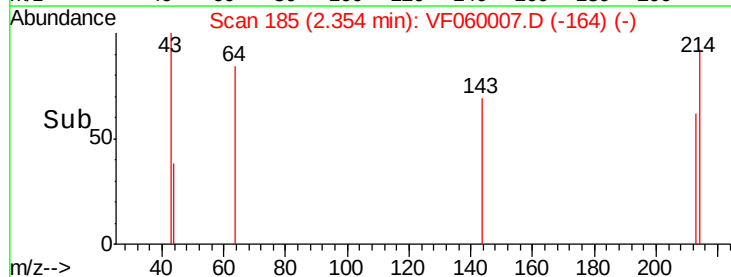
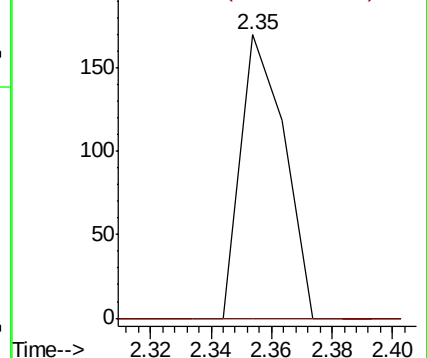
43 100

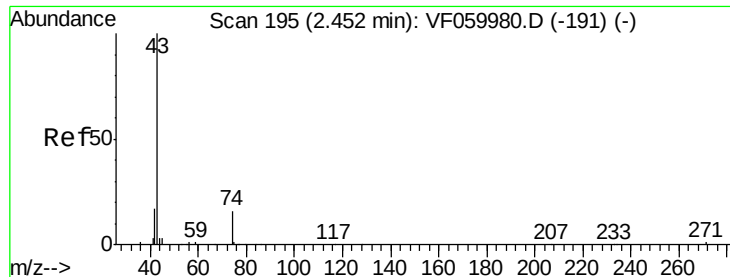
58 0.0 11.9 17.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

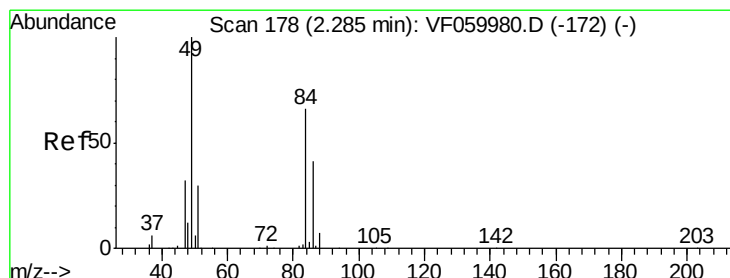
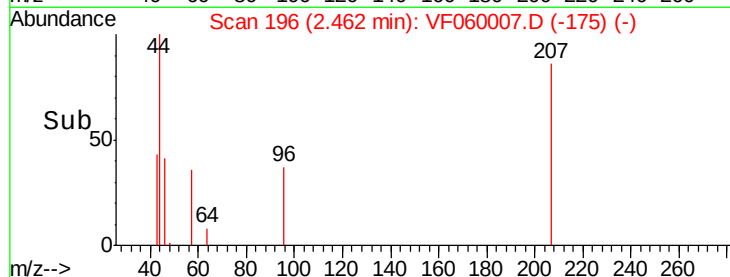
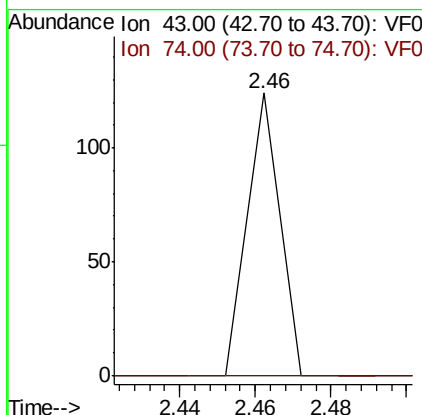
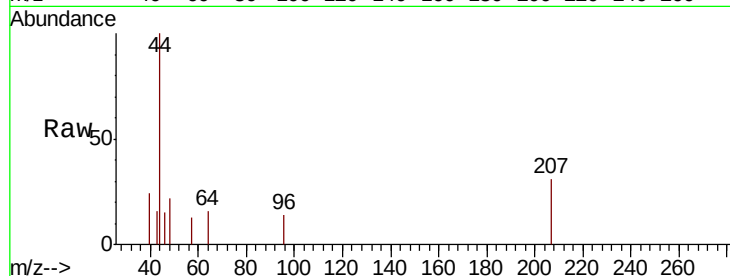




#18
Methyl Acetate
Concen: Below Cal
RT: 2.46 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF060007.D
Acq: 20 Aug 2018 17:32

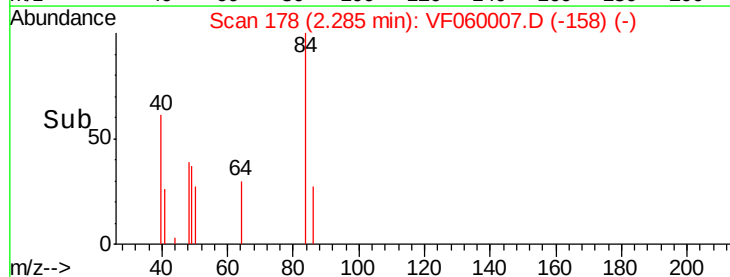
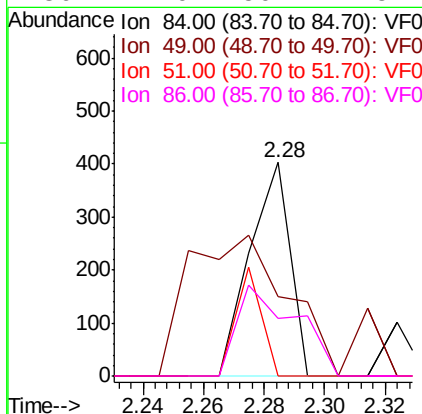
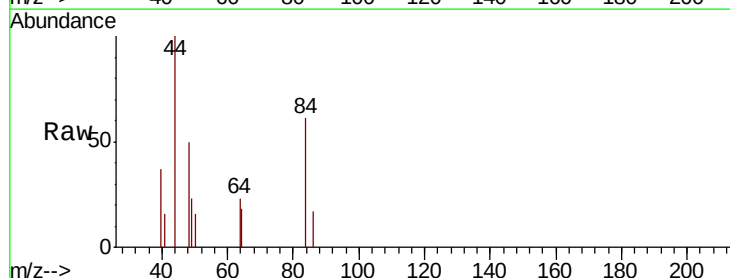
Instrument :
MSVOA_F
ClientSampled :
SU-04-081718

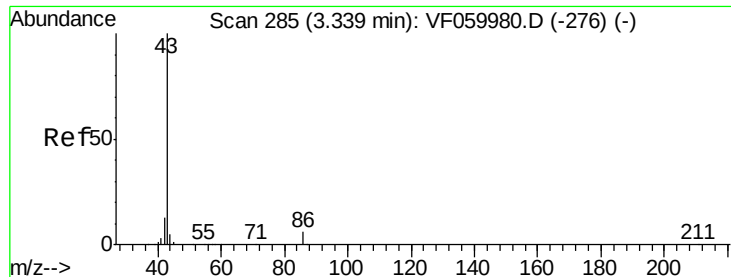
Tot Ion: 43 Resp: 73
Ion Ratio Lower Upper
43 100
74 0.0 12.3 18.5#



#20
Methylene Chloride
Concen: 1.33 ug/l
RT: 2.28 min Scan# 178
Delta R.T. 0.00 min
Lab File: VF060007.D
Acq: 20 Aug 2018 17:32

Tgt Ion: 84 Resp: 376
Ion Ratio Lower Upper
84 100
49 37.0 122.5 183.7#
51 0.0 37.1 55.7#
86 27.0 50.2 75.2#





#23

Vinyl Acetate

Concen: 1.58 ug/l

RT: 3.30 min Scan# 281

Delta R.T. -0.04 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

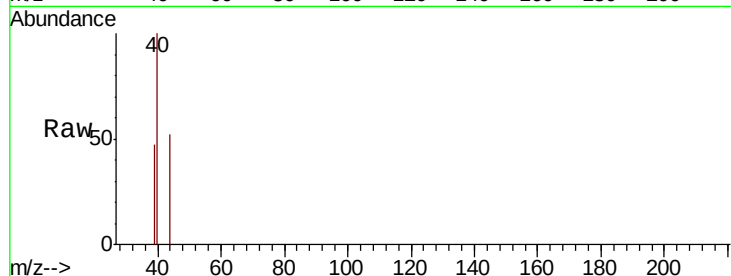
SU-04-081718

Tot Ion: 43 Resp: 144

Ion Ratio Lower Upper

43 100

86 0.0 4.4 6.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.30

150

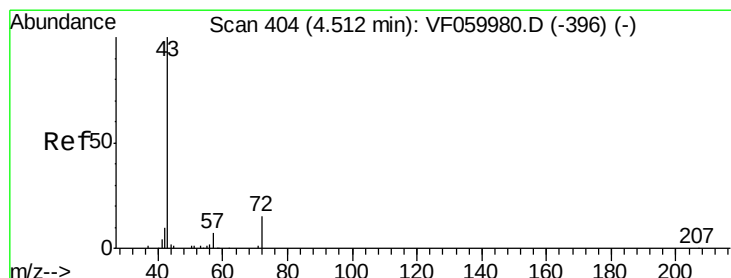
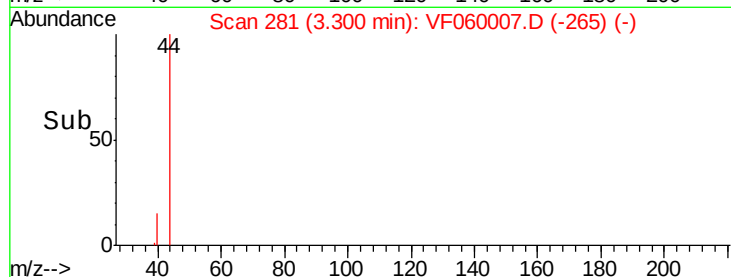
100

50

0

Time-->

3.30 3.35



#25

2-Butanone

Concen: 2.68 ug/l

RT: 4.50 min Scan# 403

Delta R.T. -0.01 min

Lab File: VF060007.D

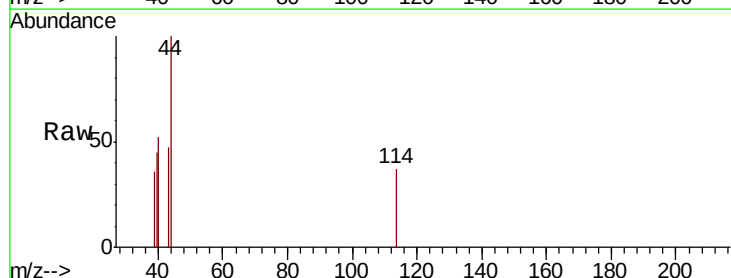
Acq: 20 Aug 2018 17:32

Tgt Ion: 43 Resp: 83

Ion Ratio Lower Upper

43 100

72 0.0 12.5 18.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.50

150

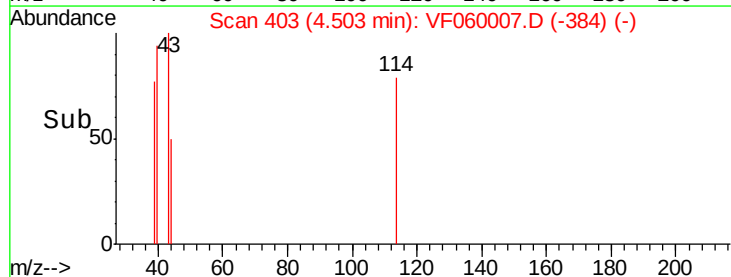
100

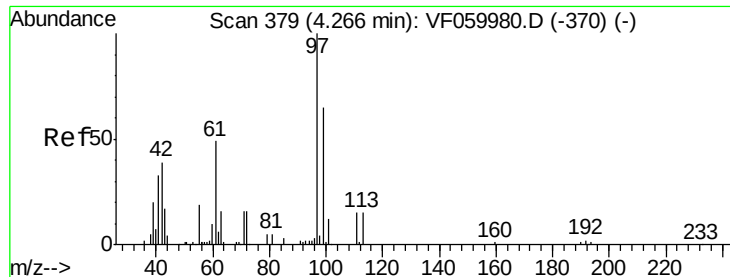
50

0

Time-->

4.48 4.50 4.52





#29

Tetrahydrofuran

Concen: 15.73 ug/l

RT: 3.97 min Scan# 349

Delta R.T. -0.30 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

SU-04-081718

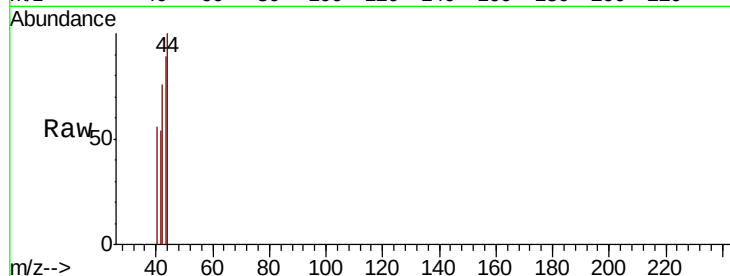
Tot Ion: 42 Resp: 174

Ion Ratio Lower Upper

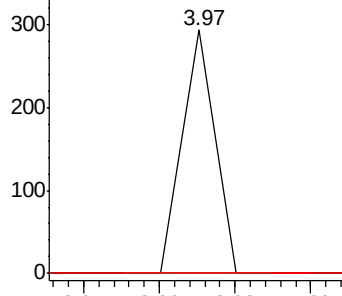
42 100

72 0.0 29.8 44.6#

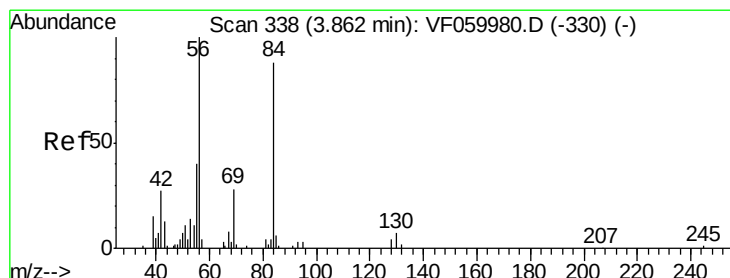
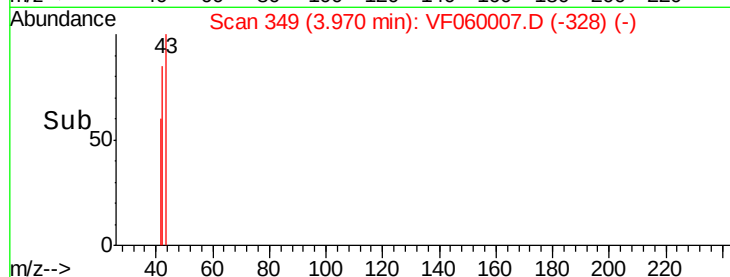
71 0.0 29.0 43.4#



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



Time-->



#31

Cyclohexane

Concen: 1.03 ug/l

RT: 3.73 min Scan# 325

Delta R.T. -0.13 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

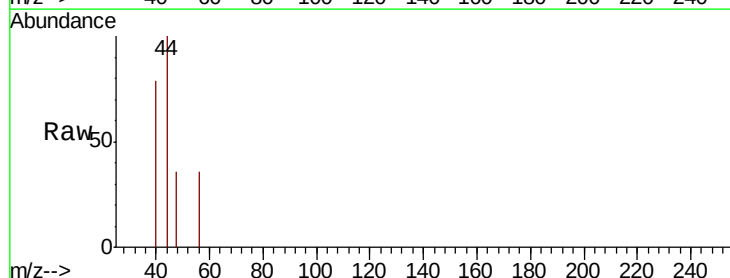
Tgt Ion: 56 Resp: 70

Ion Ratio Lower Upper

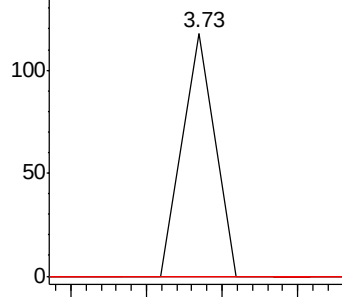
56 100

69 0.0 22.8 34.2#

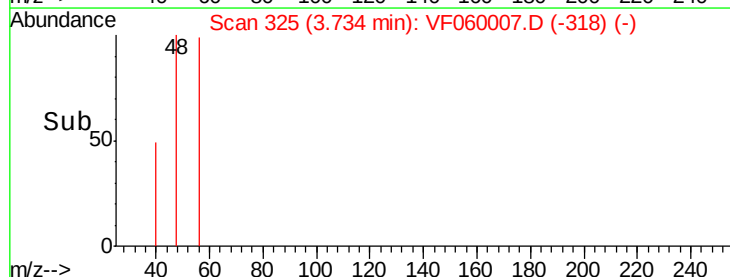
84 0.0 70.7 106.1#

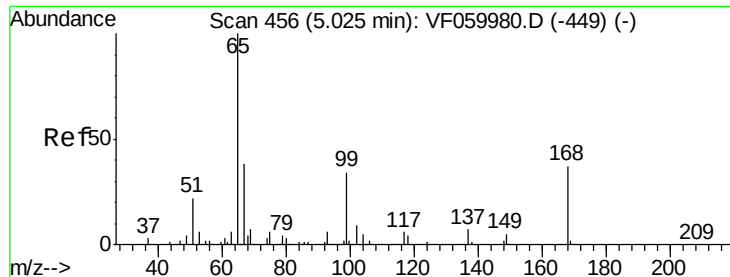


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0



Time-->

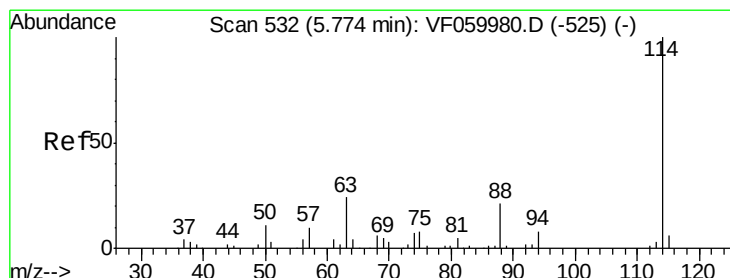
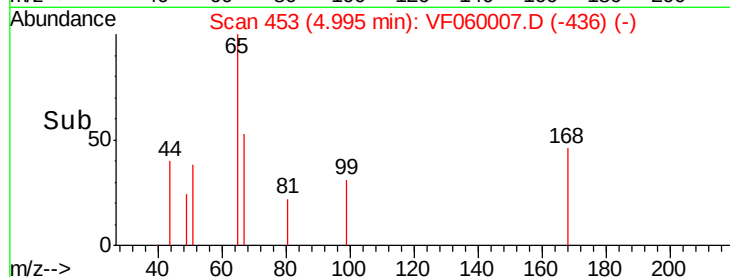
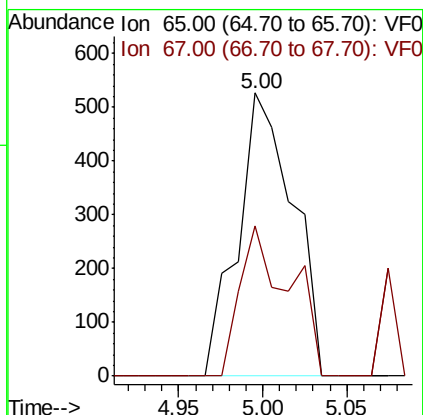
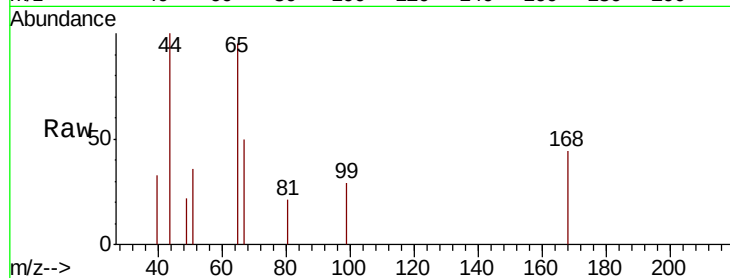




#33
 1,2-Dichloroethane-d4
 Concen: 9.33 ug/l
 RT: 5.00 min Scan# 453
 Delta R.T. -0.03 min
 Lab File: VF060007.D
 Acq: 20 Aug 2018 17:32

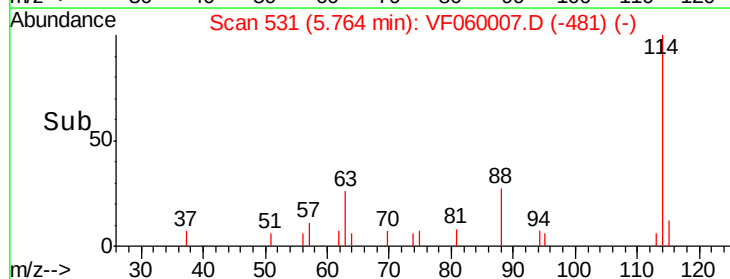
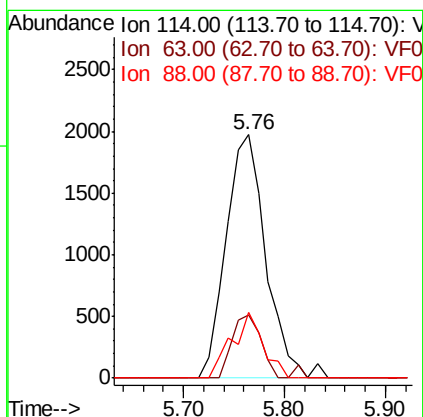
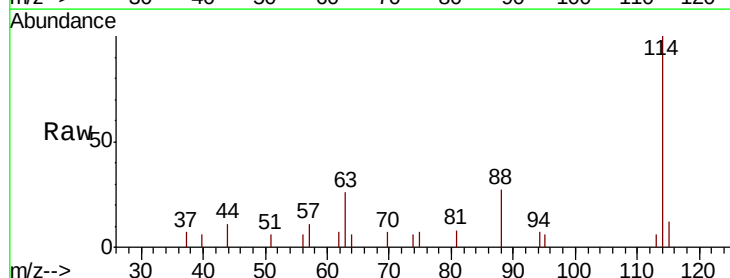
Instrument :
 MSVOA_F
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 SU-04-081718

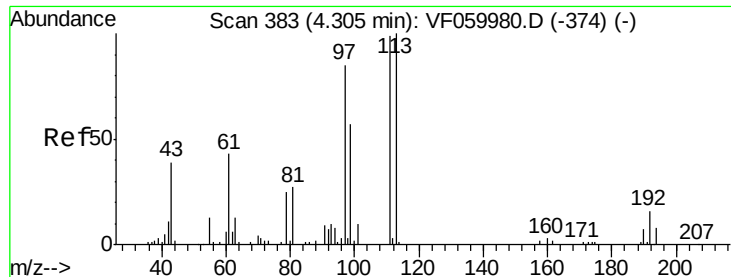
Tot Ion: 65 Resp: 1196
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 82.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.01 min
 Lab File: VF060007.D
 Acq: 20 Aug 2018 17:32

Tgt Ion: 114 Resp: 5410
 Ion Ratio Lower Upper
 114 100
 63 25.8 0.0 48.6
 88 27.3 0.0 42.8





#35

Dibromofluoromethane

Concen: 29.64 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.02 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

SU-04-081718

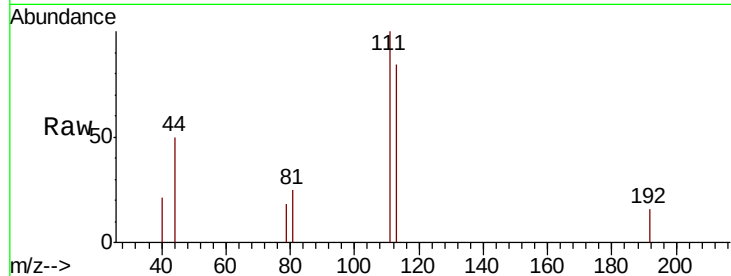
Tot Ion:113 Resp: 1639

Ion Ratio Lower Upper

113 100

111 118.9 79.5 119.3

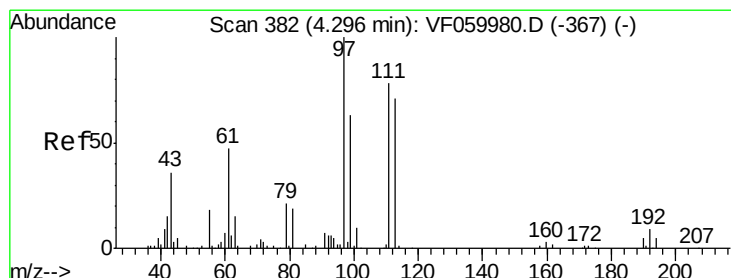
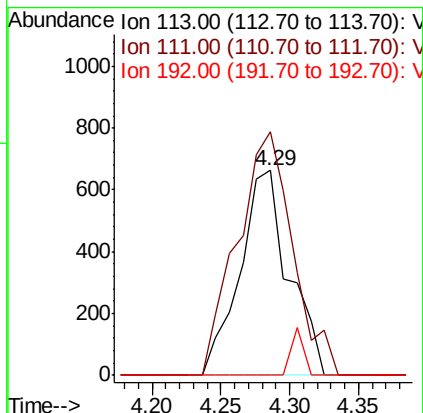
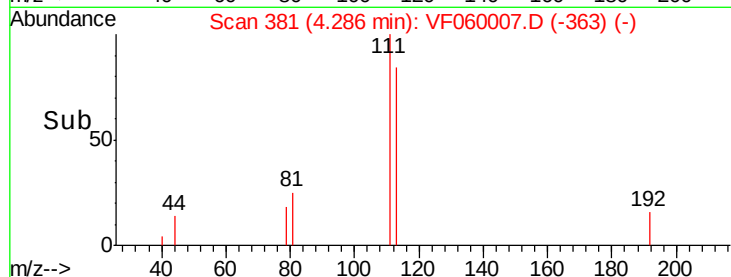
192 0.0 12.4 18.6#



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: 1.82 ug/l

RT: 4.36 min Scan# 389

Delta R.T. 0.07 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

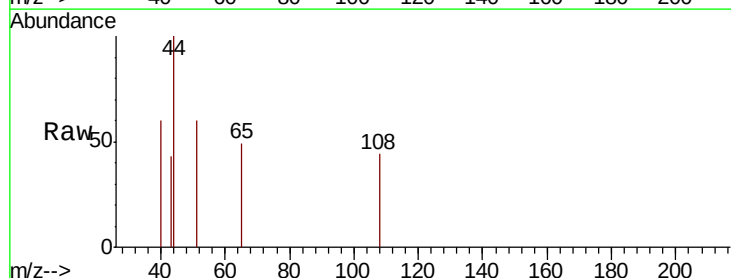
Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

61 0.0 104.5 156.7#

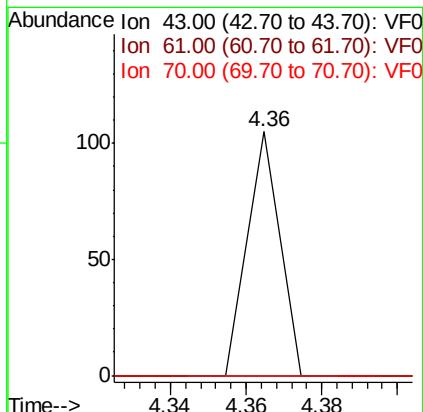
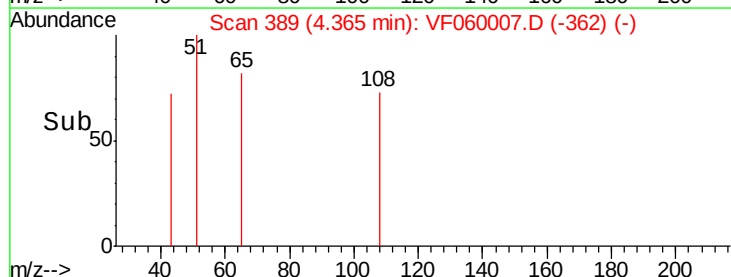
70 0.0 5.9 8.9#

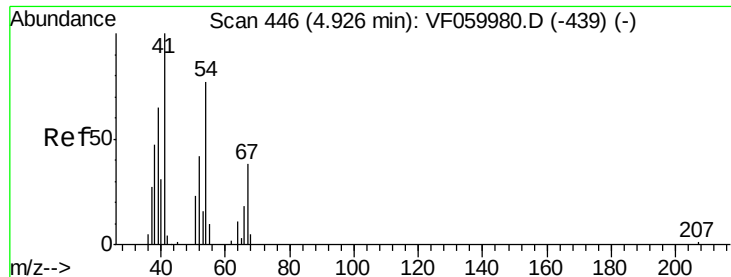


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

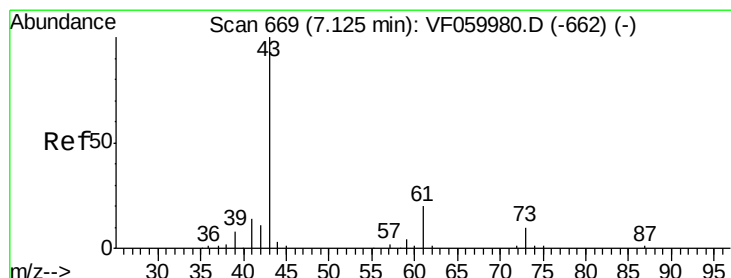
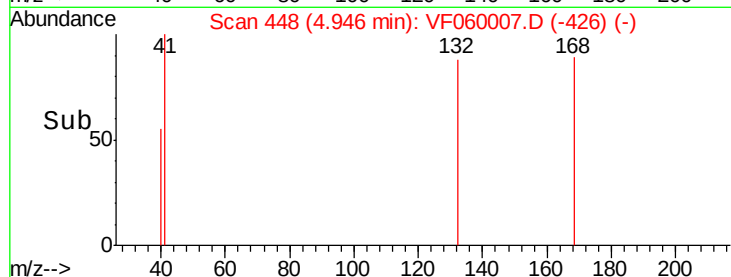
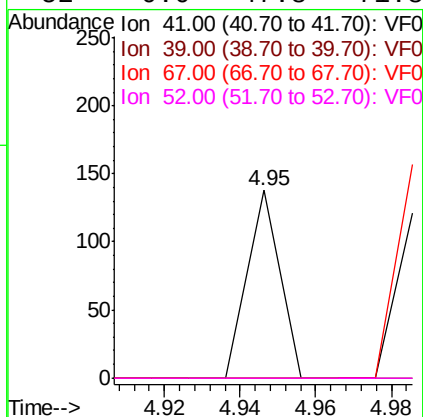
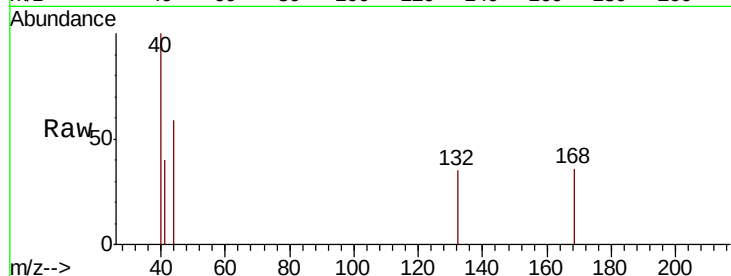




#41
Methacrylonitrile
Concen: 5.03 ug/l
RT: 4.95 min Scan# 448
Delta R.T. 0.02 min
Lab File: VF060007.D
Acq: 20 Aug 2018 17:32

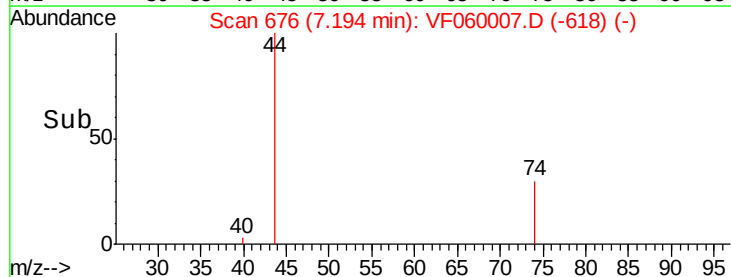
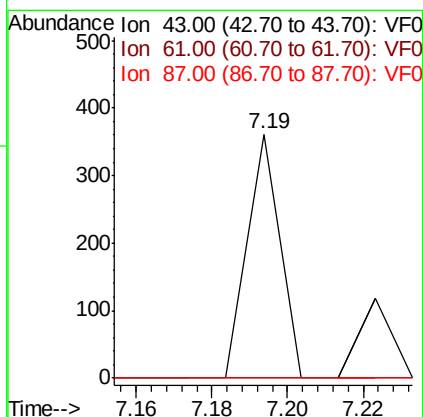
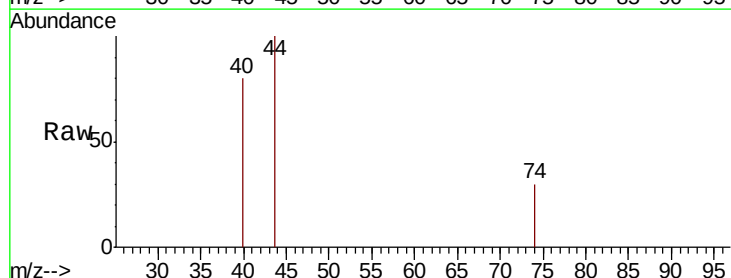
Instrument :
MSVOA_F
ClientSampleId :
SU-04-081718

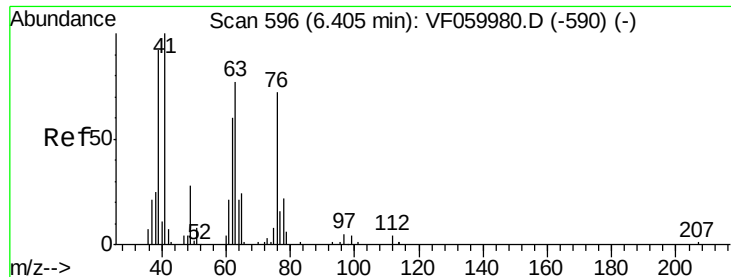
Tot Ion:	41	Resp:	82
Ion	Ratio	Lower	Upper
41	100		
39	0.0	62.9	94.3#
67	0.0	30.4	45.6#
52	0.0	47.8	71.8#



#43
Isopropyl Acetate
Concen: 5.68 ug/l
RT: 7.19 min Scan# 676
Delta R.T. 0.07 min
Lab File: VF060007.D
Acq: 20 Aug 2018 17:32

Tgt Ion:	43	Resp:	213
Ion	Ratio	Lower	Upper
43	100		
61	0.0	15.8	23.8#
87	0.0	0.6	0.8#

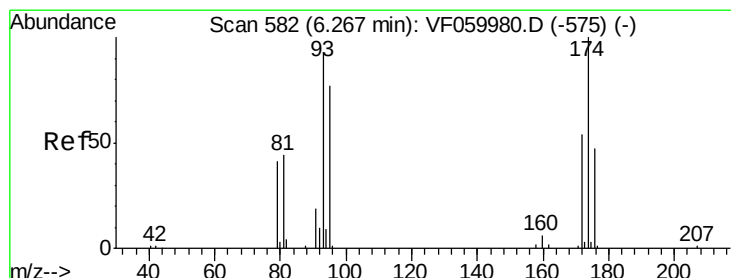
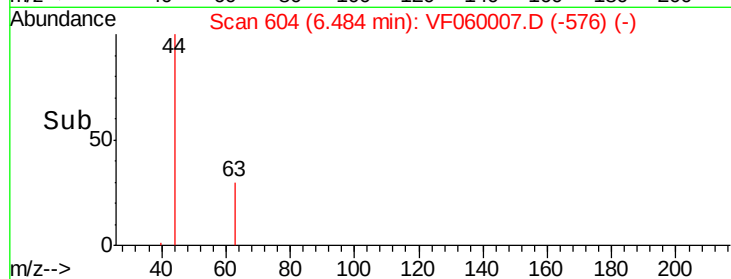
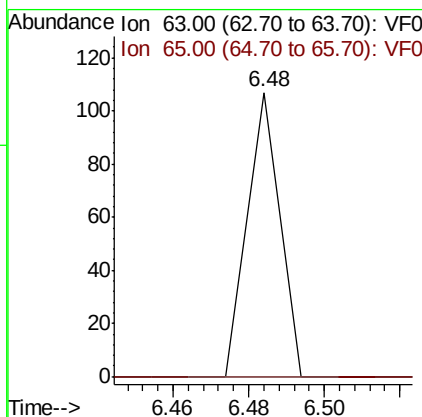
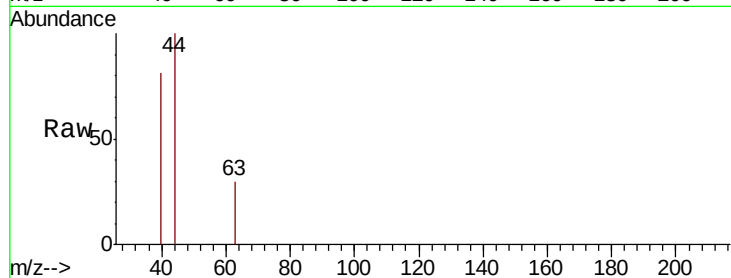




#45
 1,2-Dichloropropane
 Concen: 2.11 ug/l
 RT: 6.48 min Scan# 604
 Delta R.T. 0.08 min
 Lab File: VF060007.D
 Acq: 20 Aug 2018 17:32

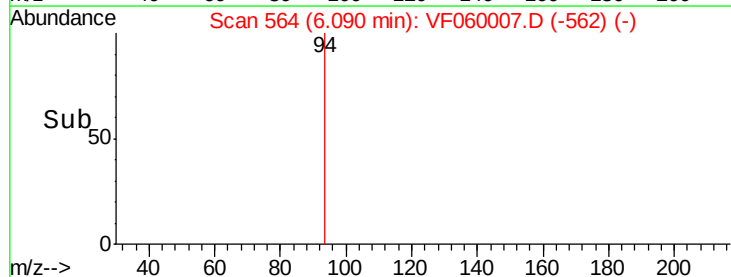
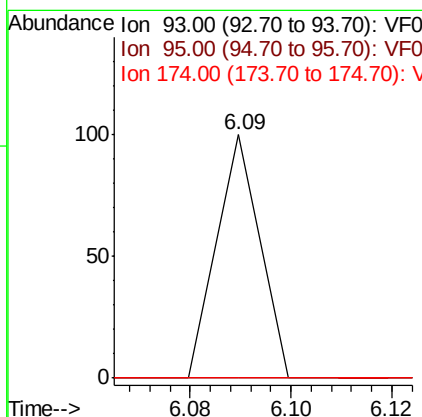
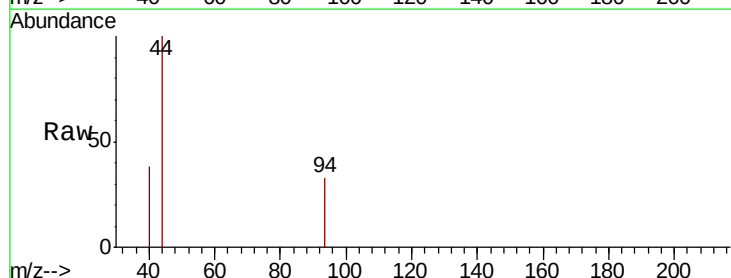
Instrument :
 MSVOA_F
 ClientSampleId :
 SU-04-081718

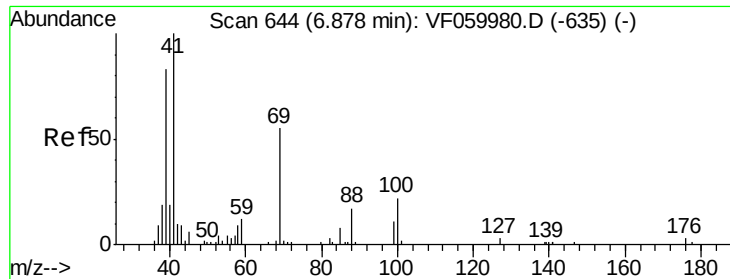
Tot Ion: 63 Resp: 63
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#46
 Dibromomethane
 Concen: 2.01 ug/l
 RT: 6.09 min Scan# 564
 Delta R.T. -0.18 min
 Lab File: VF060007.D
 Acq: 20 Aug 2018 17:32

Tgt Ion: 93 Resp: 59
 Ion Ratio Lower Upper
 93 100
 95 0.0 67.0 100.4#
 174 0.0 85.7 128.5#

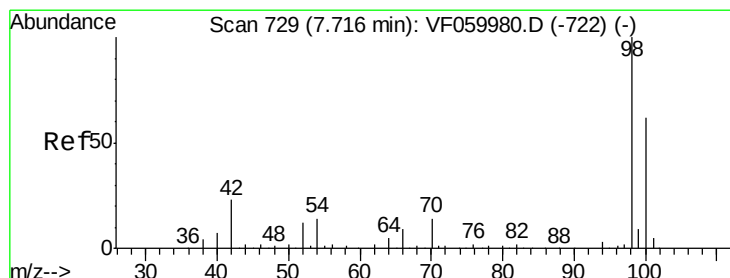
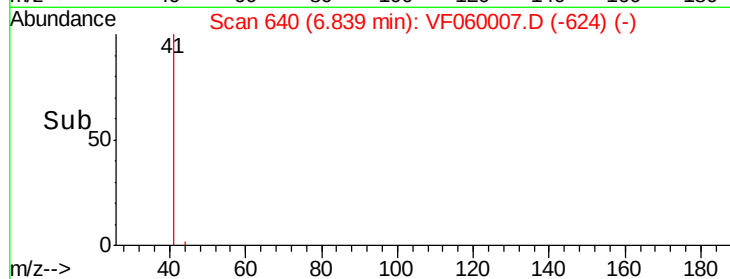
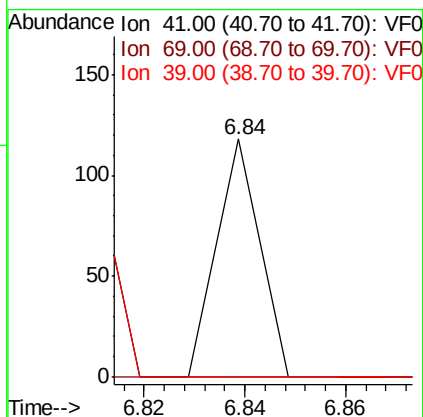
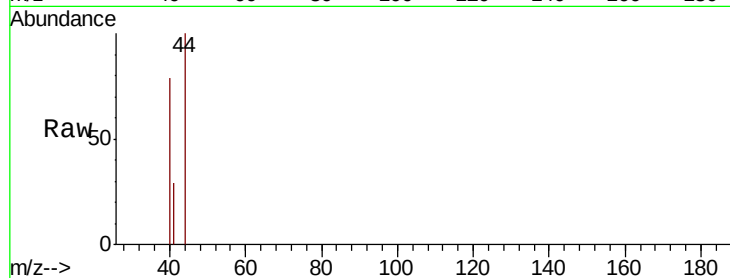




#48
Methvl methacrylate
Concen: 2.51 ug/l
RT: 6.84 min Scan# 640
Delta R.T. -0.04 min
Lab File: VF060007.D
Acq: 20 Aug 2018 17:32

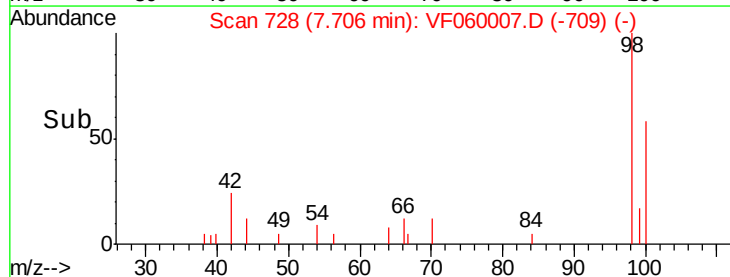
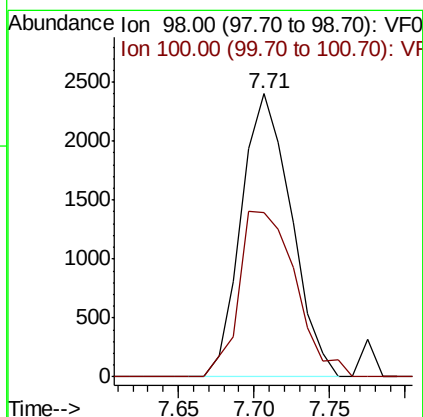
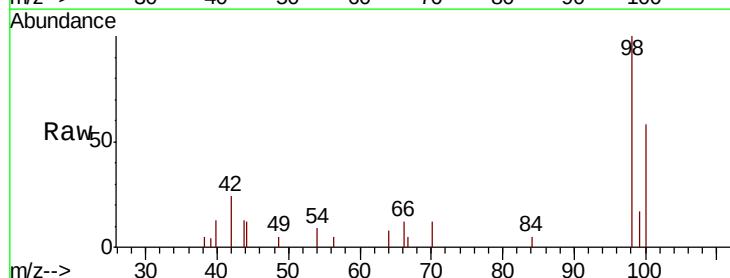
Instrument :
MSVOA_F
ClientSampleId :
SU-04-081718

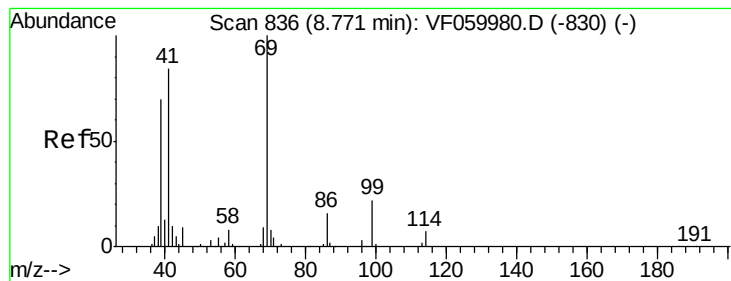
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	44.4	66.6#
39	0.0	67.8	101.6#



#50
Toluene-d8
Concen: 45.00 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF060007.D
Acq: 20 Aug 2018 17:32

Tgt Ion	Ratio	Lower	Upper
98	100		
100	58.0	49.8	74.8





#56

Ethyl methacrylate

Concen: 1.79 ug/l

RT: 8.77 min Scan# 836

Delta R.T. -0.00 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

SU-04-081718

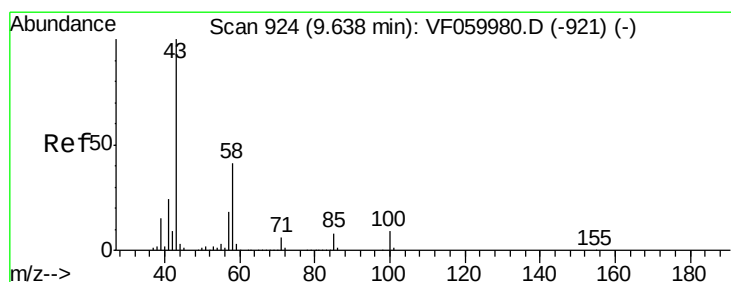
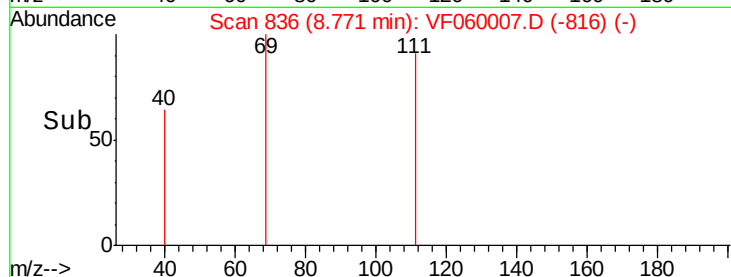
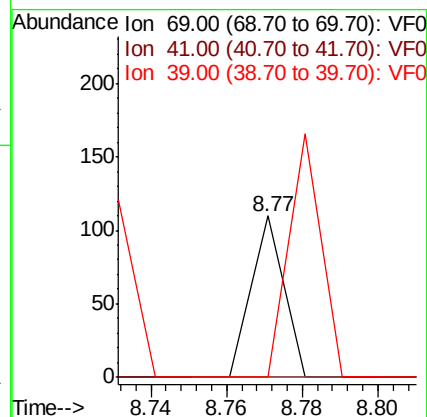
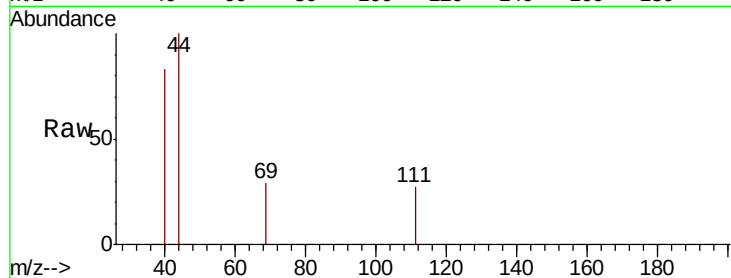
Tot Ion: 69 Resp: 65

Ion Ratio Lower Upper

69 100

41 0.0 67.8 101.6#

39 0.0 55.8 83.6#



#59

2-Hexanone

Concen: 5.98 ug/l

RT: 9.64 min Scan# 924

Delta R.T. -0.00 min

Lab File: VF060007.D

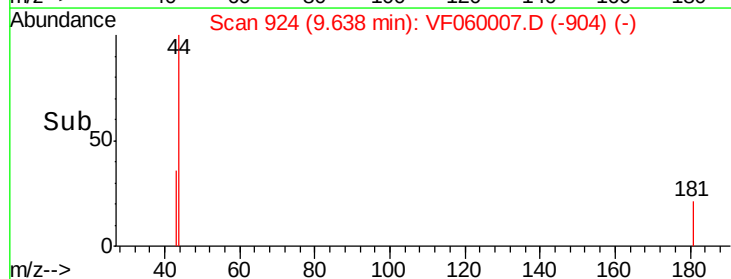
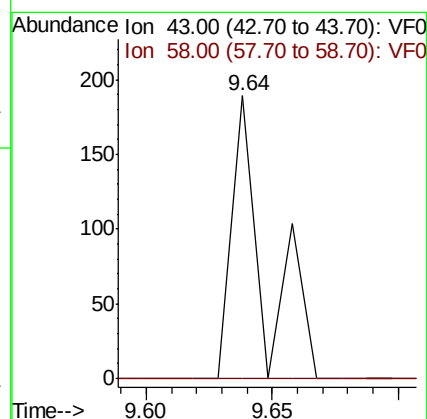
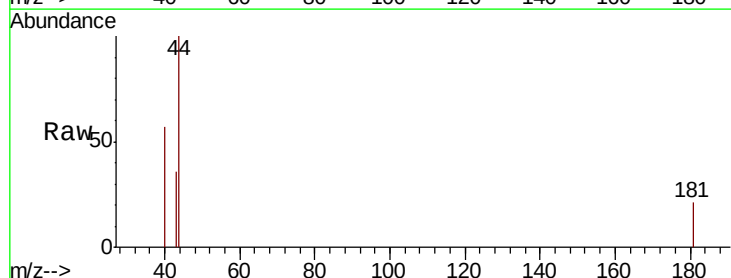
Acq: 20 Aug 2018 17:32

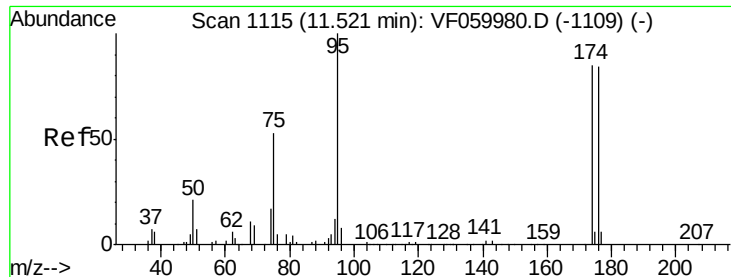
Tgt Ion: 43 Resp: 173

Ion Ratio Lower Upper

43 100

58 0.0 20.1 60.3#





#62

4-Bromofluorobenzene

Concen: 16.62 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.01 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

SU-04-081718

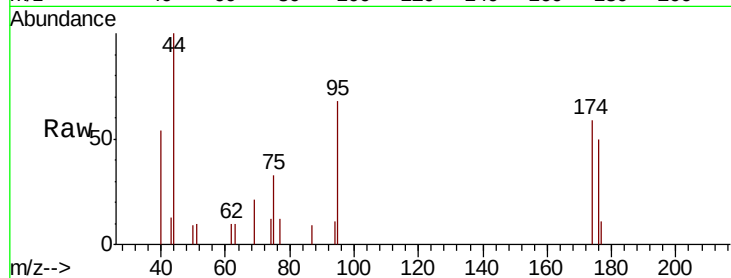
Tot Ion: 95 Resp: 1254

Ion Ratio Lower Upper

95 100

174 87.5 0.0 169.8

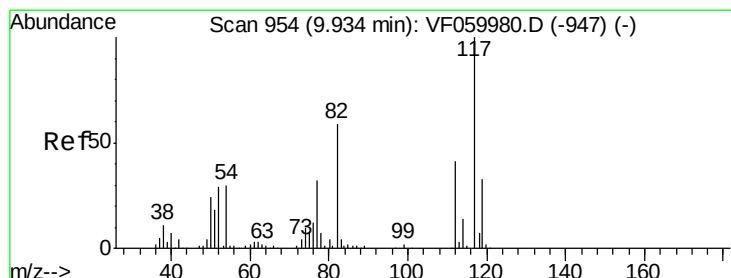
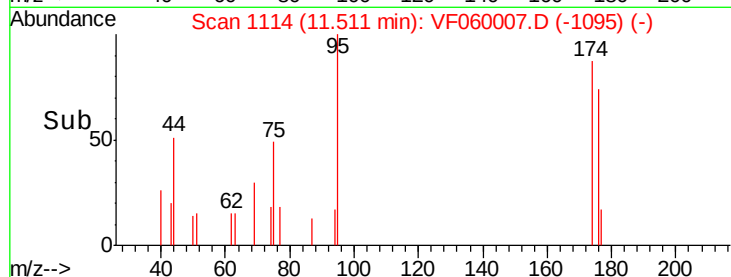
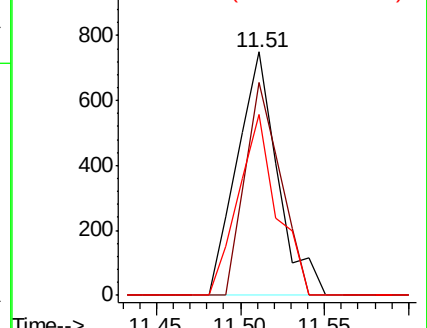
176 74.1 0.0 167.8



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



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.92 min Scan# 953

Delta R.T. -0.01 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

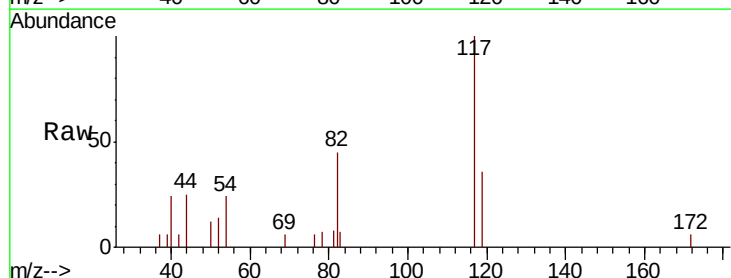
Tgt Ion: 117 Resp: 3972

Ion Ratio Lower Upper

117 100

82 44.5 47.2 70.8#

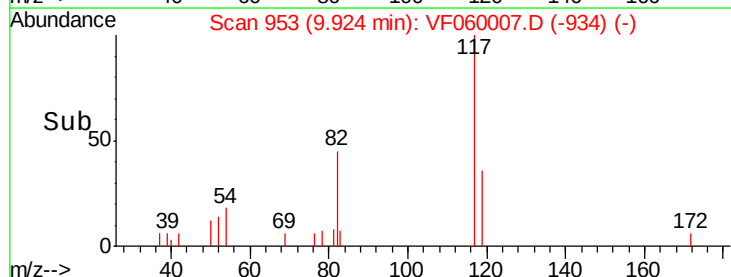
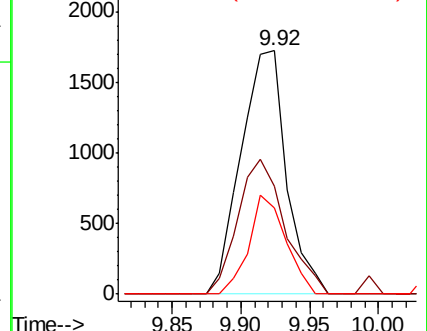
119 35.6 26.1 39.1

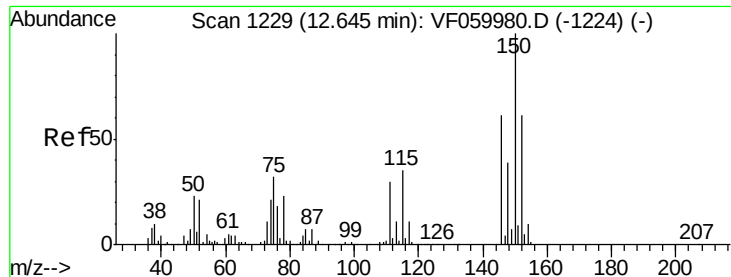


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

SU-04-081718

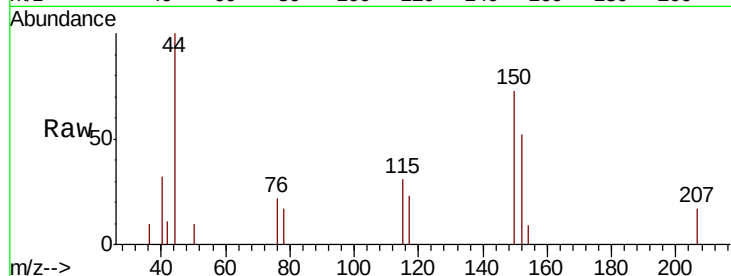
Tot Ion:152 Resp: 909

Ion Ratio Lower Upper

152 100

115 59.0 29.1 87.3

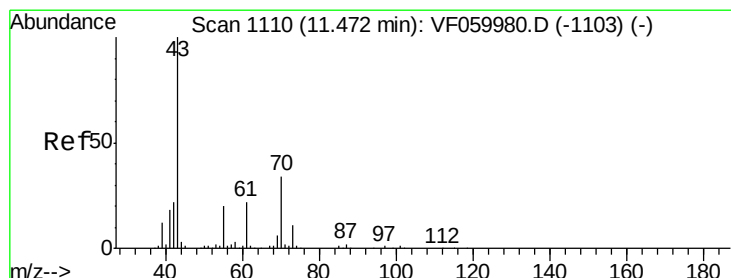
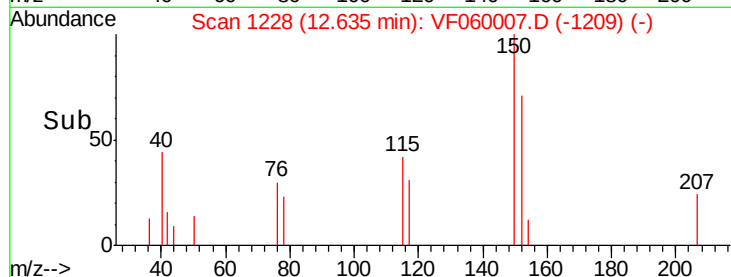
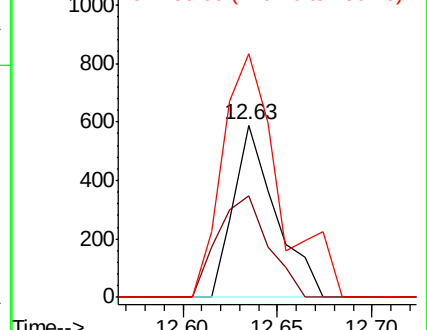
150 141.2 0.0 330.2



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



#74

N-amyl acetate

Concen: 5.63 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.04 min

Lab File: VF060007.D

Acq: 20 Aug 2018 17:32

Tgt Ion: 43 Resp: 87

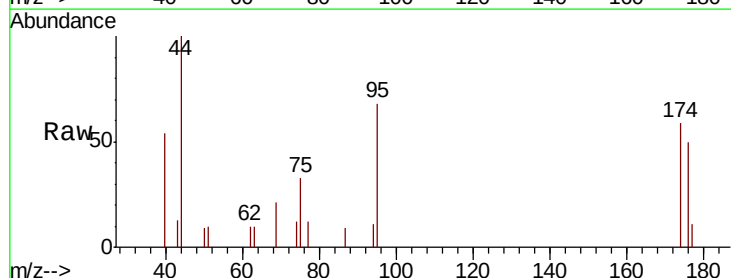
Ion Ratio Lower Upper

43 100

70 0.0 27.2 40.8#

55 0.0 16.4 24.6#

61 0.0 17.6 26.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

