

Data File : VF059993.D
Acq On : 18 Aug 2018 1:24
Operator : VA/AP
Sample : J4511-02
Misc : 5.05g/5mL/MSVOA_F/SOIL
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
RA-081418-FL-024

Quant Time: Aug 18 01:42:58 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	5.03	168	1191	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.76	114	766	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.92	117	386	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.64

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	69	3.00	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	6.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	7.71	98	591	33.95	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	67.90%	
62) 4-Bromofluorobenzene	11.52	95	164	15.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	30.70%	

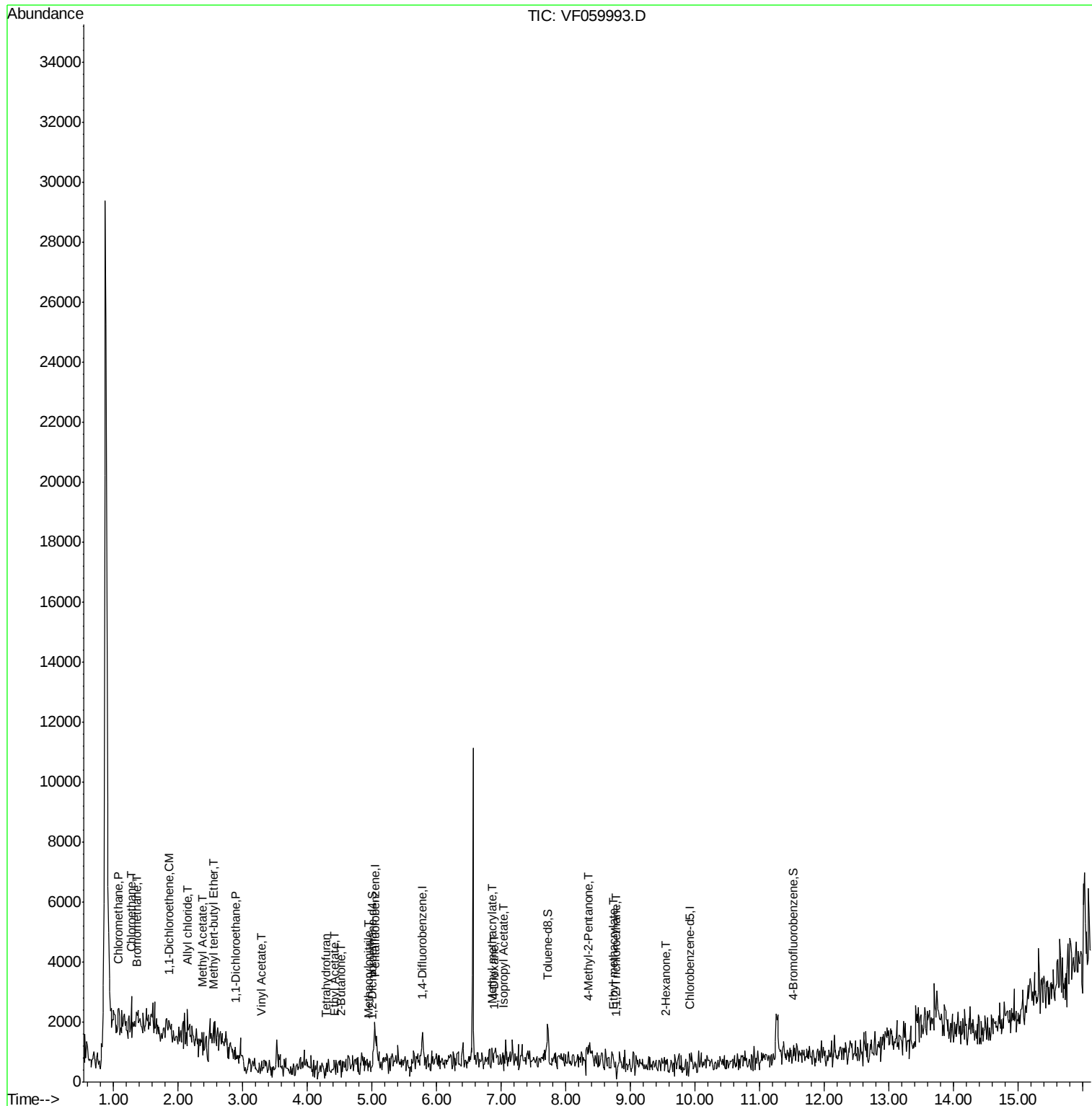
Target Compounds			Qvalue			
3) Chloromethane	1.08	50	89	7.739	ug/l #	45
5) Bromomethane	1.35	94	62	4.932	ug/l #	3
6) Chloroethane	1.28	64	256	40.873	ug/l	100
12) 1,1-Dichloroethene	1.86	96	64	5.717	ug/l #	1
14) Allyl chloride	2.15	41	90	4.738	ug/l #	1
16) Acetone	2.37	43	70	Below Cal	#	64
18) Methyl Acetate	2.37	43	70	3.160	ug/l #	63
19) Methyl tert-butyl Ether	2.53	73	60	1.629	ug/l #	60
23) Vinyl Acetate	3.28	43	61	3.730	ug/l #	84
24) 1,1-Dichloroethane	2.90	63	237	8.895	ug/l #	90
25) 2-Butanone	4.50	43	107	19.253	ug/l #	63
29) Tetrahydrofuran	4.30	42	61	30.754	ug/l #	38
37) Ethyl Acetate	4.40	43	71	14.723	ug/l #	1
41) Methacrylonitrile	4.95	41	62	26.853	ug/l #	19
43) Isopropyl Acetate	7.03	43	142	26.753	ug/l #	58
48) Methyl methacrylate	6.86	41	76	19.237	ug/l #	14
49) 1,4-Dioxane	6.88	88	72	2014.789	ug/l #	25
51) 4-Methyl-2-Pentanone	8.34	43	76	15.328	ug/l #	43
55) 1,1,2-Trichloroethane	8.77	97	90	20.297	ug/l #	18
56) Ethyl methacrylate	8.74	69	61	11.874	ug/l #	5
59) 2-Hexanone	9.54	43	180	43.968	ug/l #	35

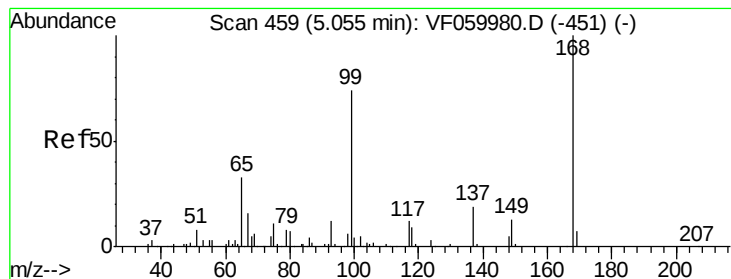
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.02 min

Lab File: VF059993.D

Acq: 18 Aug 2018 1:24

Instrument :

MSVOA_F

ClientSampleId :

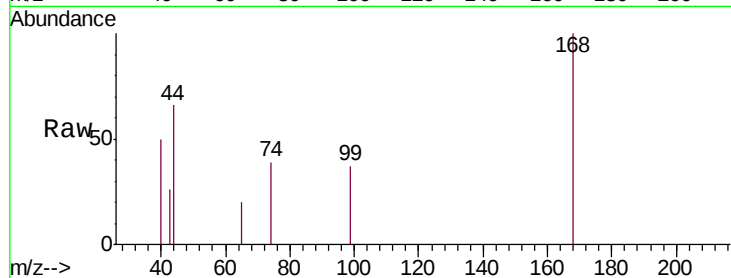
RA-081418-FL-024

Tgt Ion: 168 Resp: 1191

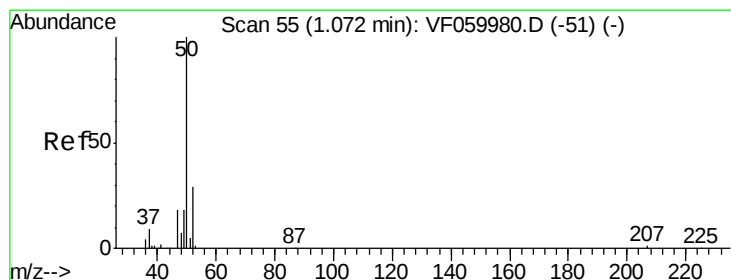
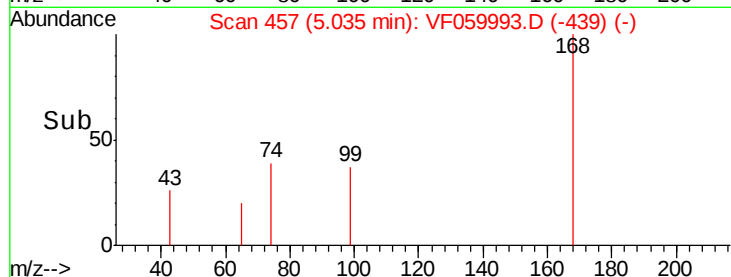
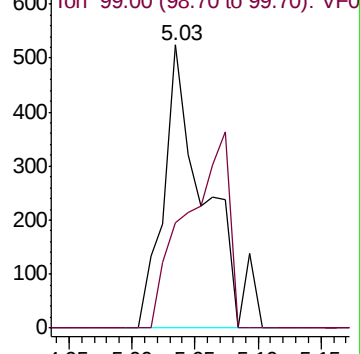
Ion Ratio Lower Upper

168 100

99 37.4 59.0 88.6#



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 7.739 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF059993.D

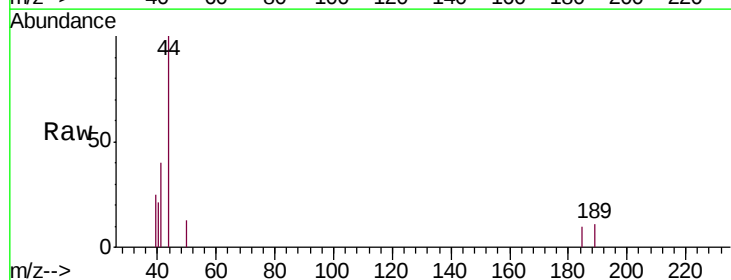
Acq: 18 Aug 2018 1:24

Tgt Ion: 50 Resp: 89

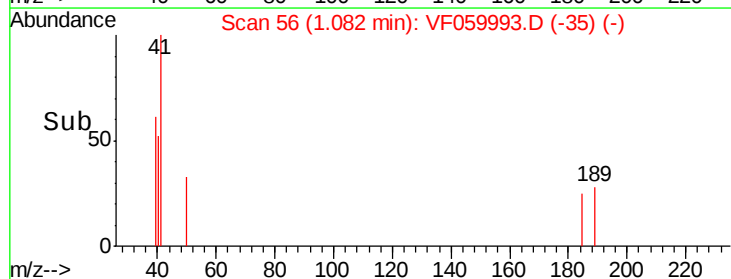
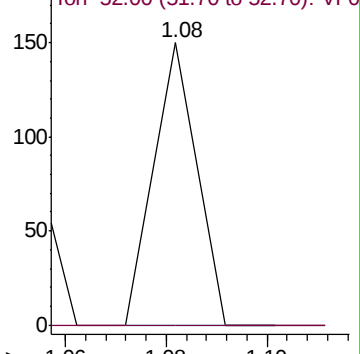
Ion Ratio Lower Upper

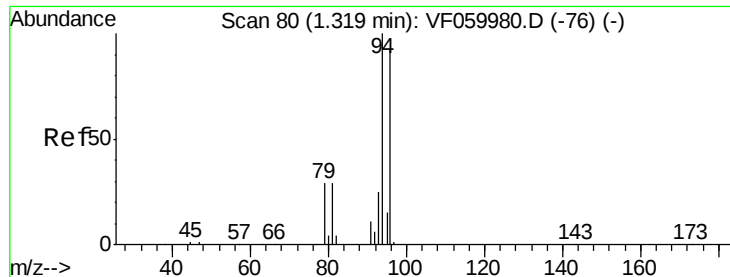
50 100

52 0.0 23.6 35.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#5

Bromomethane

Concen: 4.932 ug/l

RT: 1.35 min Scan# 83

Delta R.T. 0.03 min

Lab File: VF059993.D

Acq: 18 Aug 2018 1:24

Instrument :

MSVOA_F

ClientSampleId :

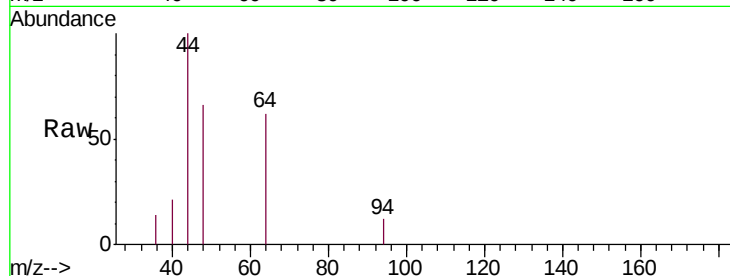
RA-081418-FL-024

Tgt Ion: 94 Resp: 62

Ion Ratio Lower Upper

94 100

96 0.0 73.9 110.9#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.35

100

80

60

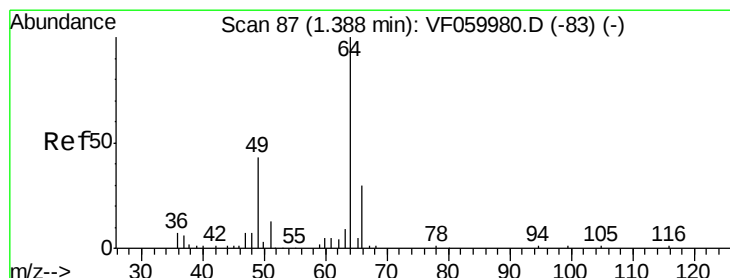
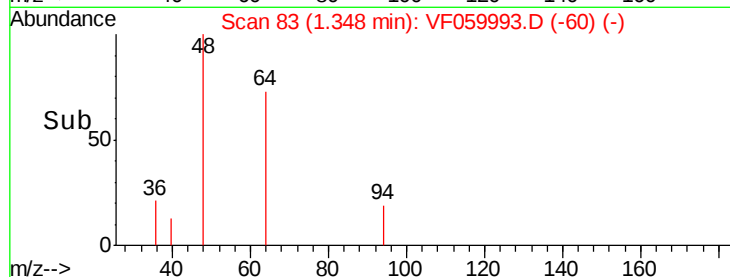
40

20

0

Time-->

1.32 1.34 1.36 1.38



#6

Chloroethane

Concen: 40.873 ug/l

RT: 1.28 min Scan# 76

Delta R.T. -0.11 min

Lab File: VF059993.D

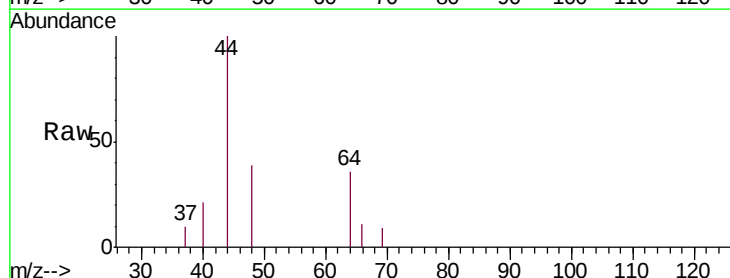
Acq: 18 Aug 2018 1:24

Tgt Ion: 64 Resp: 256

Ion Ratio Lower Upper

64 100

66 30.4 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

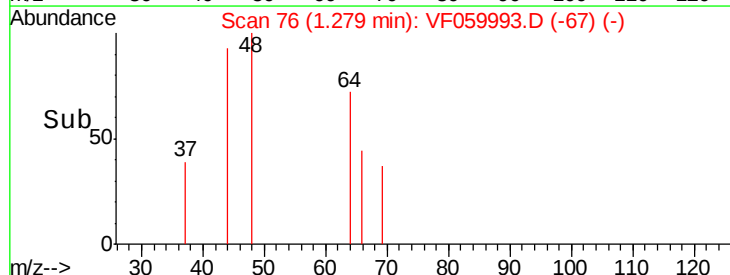
200

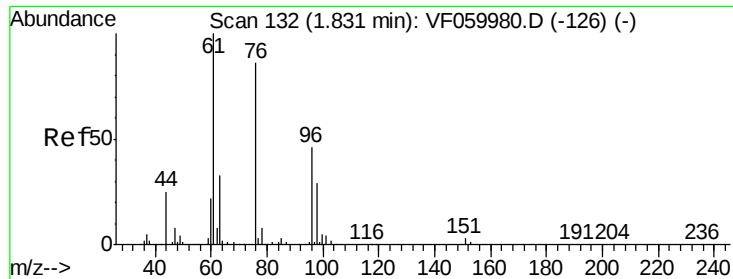
100

0

Time-->

1.24 1.26 1.28 1.30





#12

1,1-Dichloroethene

Concen: 5.717 ug/l

RT: 1.86 min Scan# 135

Delta R.T. 0.03 min

Lab File: VF059993.D

Acq: 18 Aug 2018 1:24

Instrument :

MSVOA_F

ClientSampleId :

RA-081418-FL-024

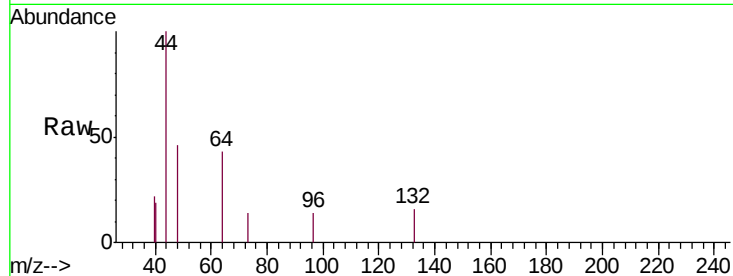
Tgt Ion: 96 Resp: 64

Ion Ratio Lower Upper

96 100

61 0.0 175.6 263.4#

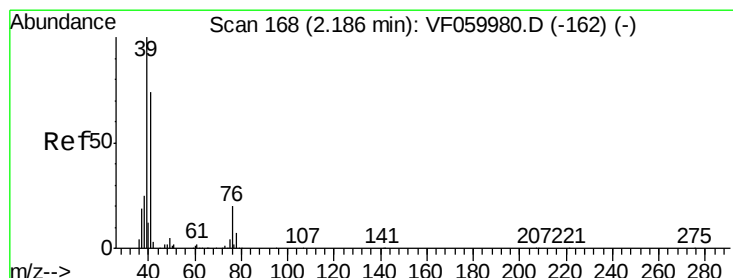
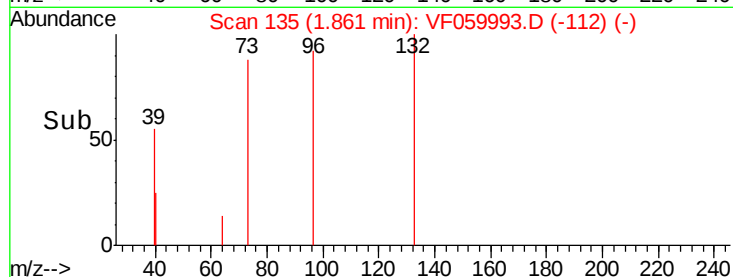
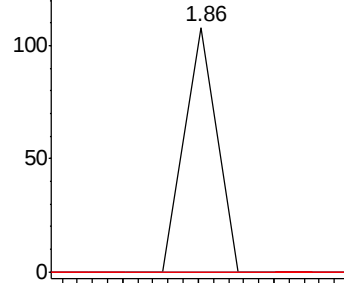
98 0.0 50.6 75.8#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#14

Allyl chloride

Concen: 4.738 ug/l

RT: 2.15 min Scan# 164

Delta R.T. -0.04 min

Lab File: VF059993.D

Acq: 18 Aug 2018 1:24

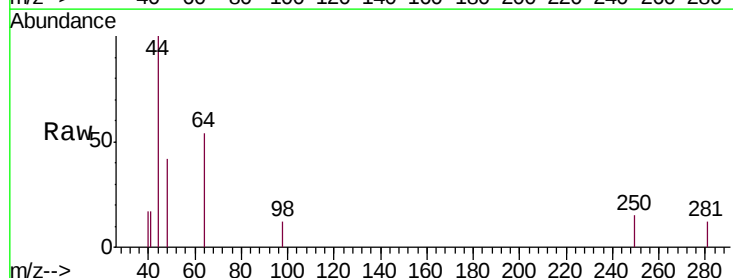
Tgt Ion: 41 Resp: 90

Ion Ratio Lower Upper

41 100

39 0.0 109.3 163.9#

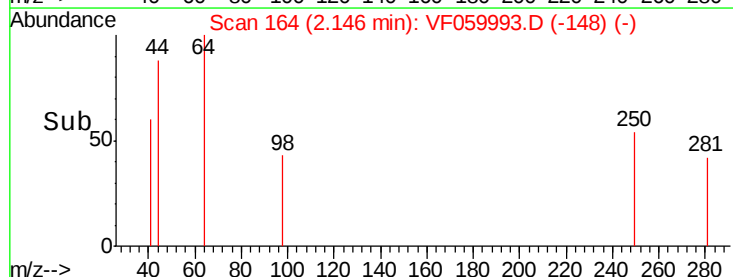
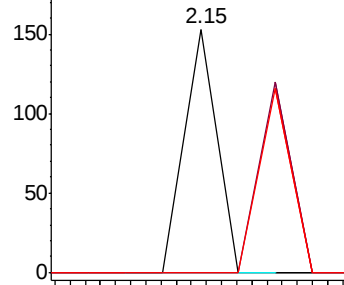
76 0.0 21.3 31.9#

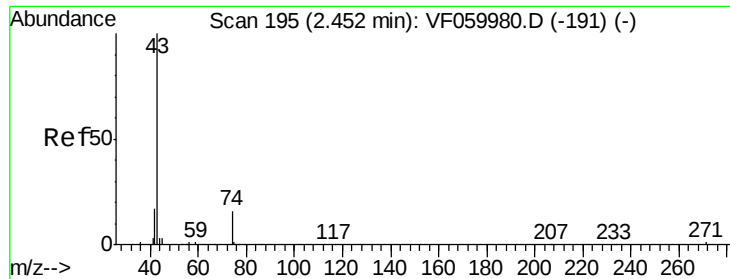


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

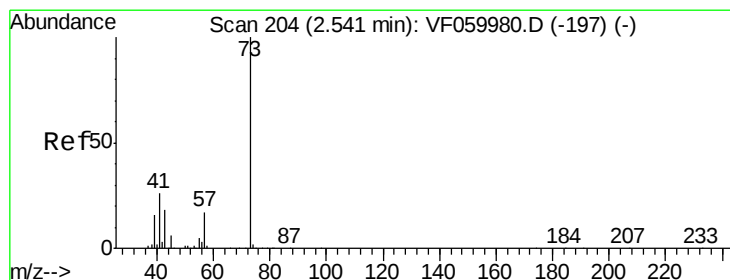
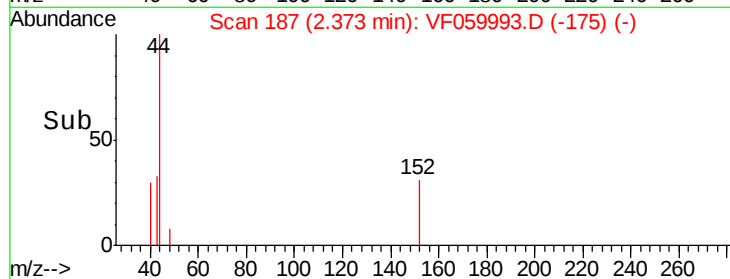
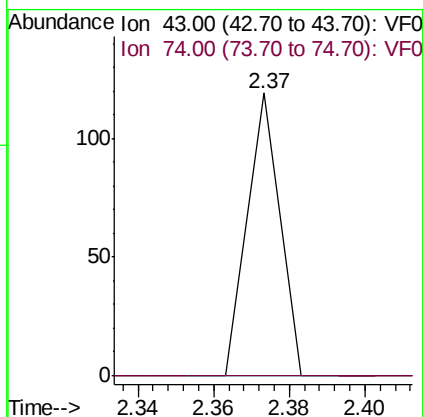
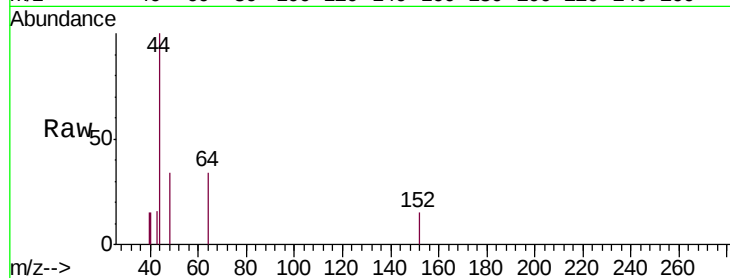




#18
Methyl Acetate
Concen: 3.160 ug/l
RT: 2.37 min Scan# 187
Delta R.T. -0.08 min
Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

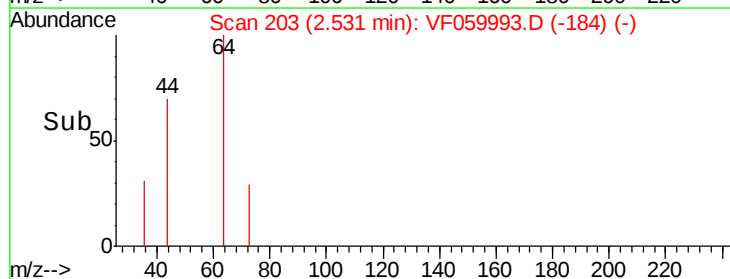
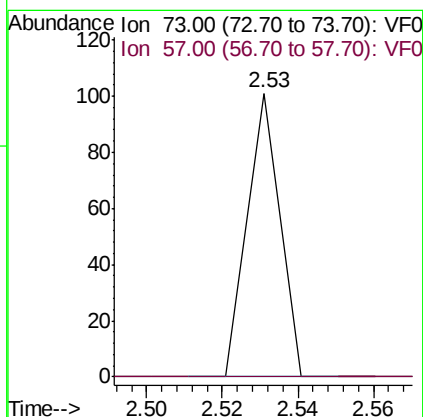
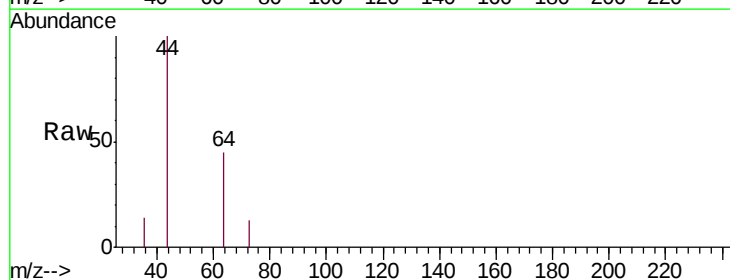
Instrument :
MSVOA_F
ClientSampleId :
RA-081418-FL-024

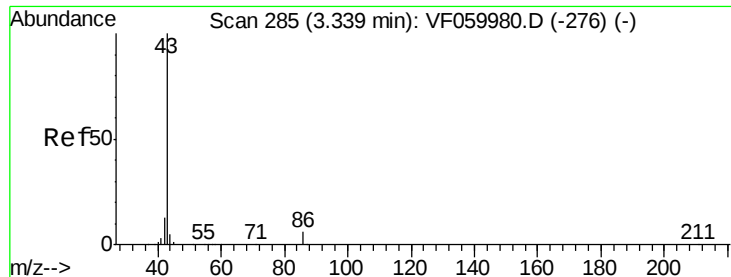
Tgt Ion: 43 Resp: 70
Ion Ratio Lower Upper
43 100
74 0.0 12.3 18.5#



#19
Methyl tert-butyl Ether
Concen: 1.629 ug/l
RT: 2.53 min Scan# 203
Delta R.T. -0.01 min
Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

Tgt Ion: 73 Resp: 60
Ion Ratio Lower Upper
73 100
57 0.0 14.2 21.2#





#23

Vinyl Acetate

Concen: 3.730 ug/l

RT: 3.28 min Scan# 279

Delta R.T. -0.06 min

Lab File: VF059993.D

Acq: 18 Aug 2018 1:24

Instrument :

MSVOA_F

ClientSampleId :

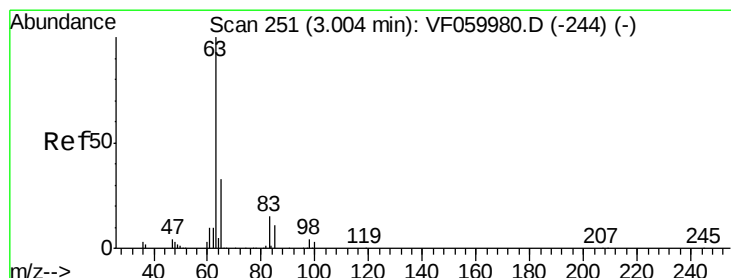
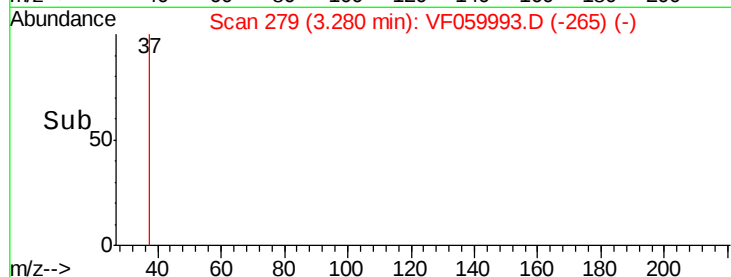
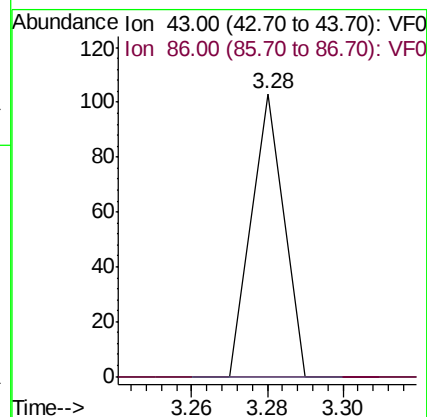
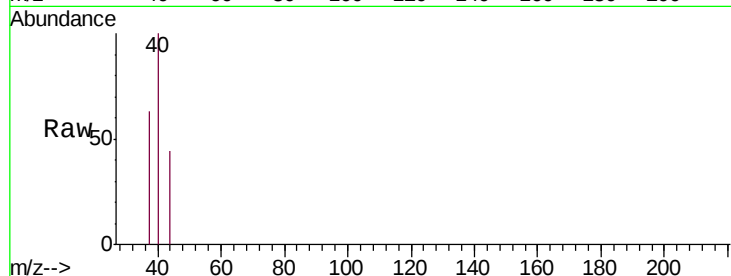
RA-081418-FL-024

Tgt Ion: 43 Resp: 61

Ion Ratio Lower Upper

43 100

86 0.0 4.4 6.6#



#24

1,1-Dichloroethane

Concen: 8.895 ug/l

RT: 2.90 min Scan# 240

Delta R.T. -0.11 min

Lab File: VF059993.D

Acq: 18 Aug 2018 1:24

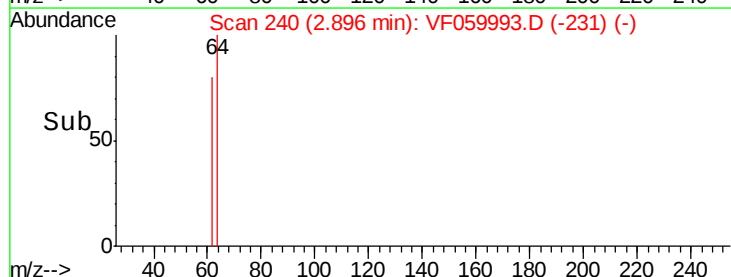
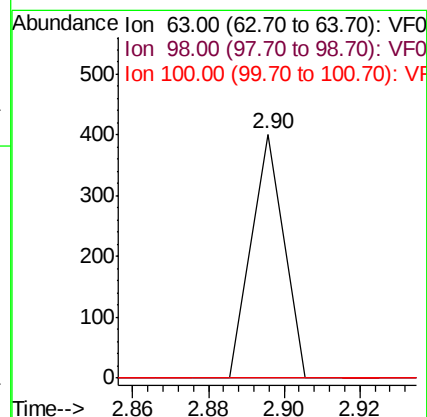
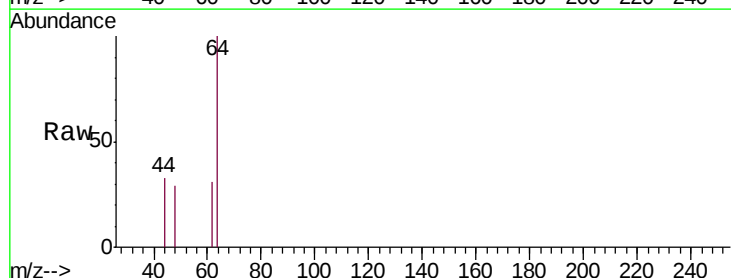
Tgt Ion: 63 Resp: 237

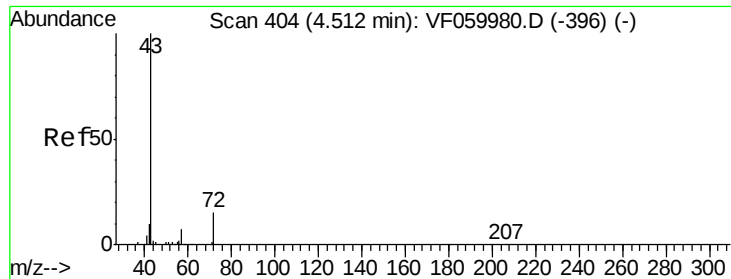
Ion Ratio Lower Upper

63 100

98 0.0 2.0 5.8#

100 0.0 1.4 4.2#





#25

2-Butanone

Concen: 19.253 ug/l

RT: 4.50 min Scan# 403

Delta R.T. -0.01 min

Lab File: VF059993.D

Acq: 18 Aug 2018 1:24

Instrument :

MSVOA_F

ClientSampleId :

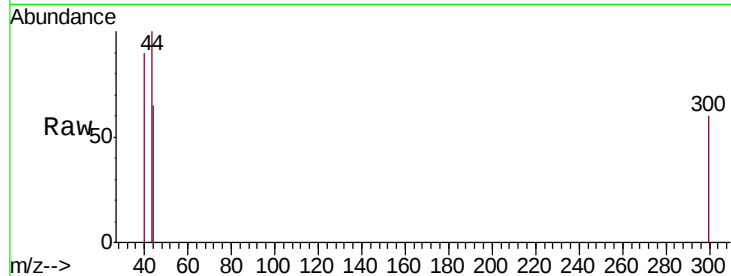
RA-081418-FL-024

Tgt Ion: 43 Resp: 107

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

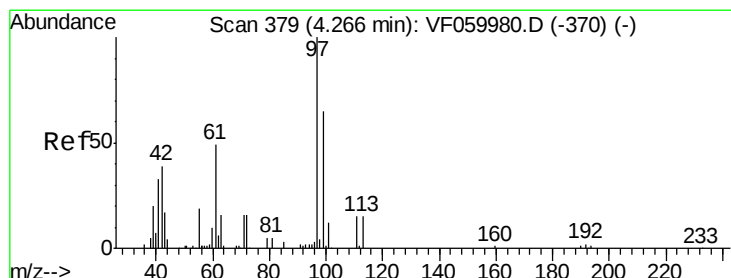
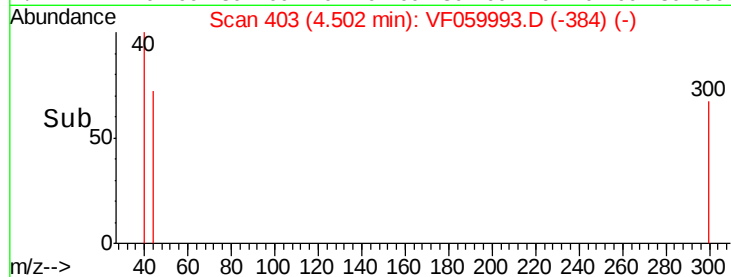
100

50

0

4.48 4.50 4.52

Time-->



#29

Tetrahydrofuran

Concen: 30.754 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.03 min

Lab File: VF059993.D

Acq: 18 Aug 2018 1:24

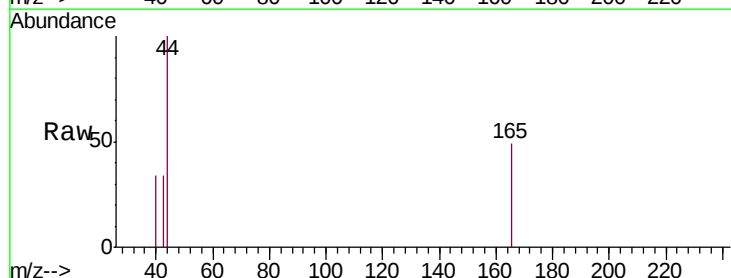
Tgt Ion: 42 Resp: 61

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

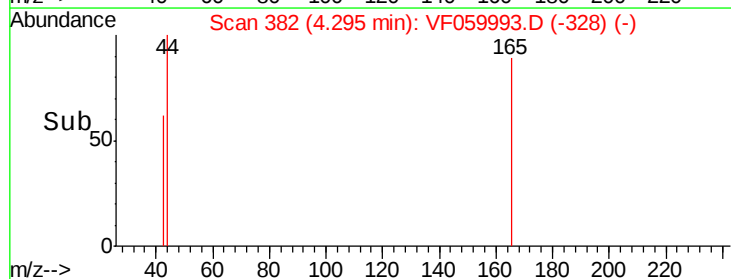
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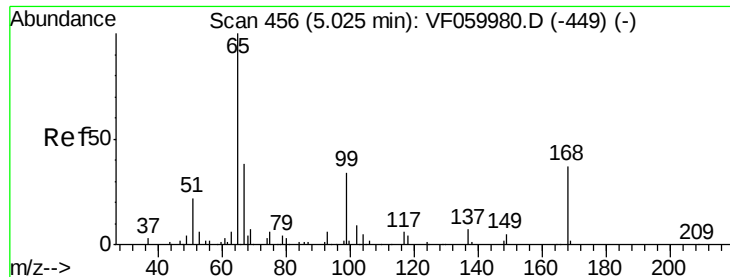
50

0

4.26 4.28 4.30 4.32

Time-->





#33

1,2-Dichloroethane-d4

Concen: 3.001 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.03 min

Lab File: VF059993.D

Acq: 18 Aug 2018 1:24

Instrument :

MSVOA_F

ClientSampleId :

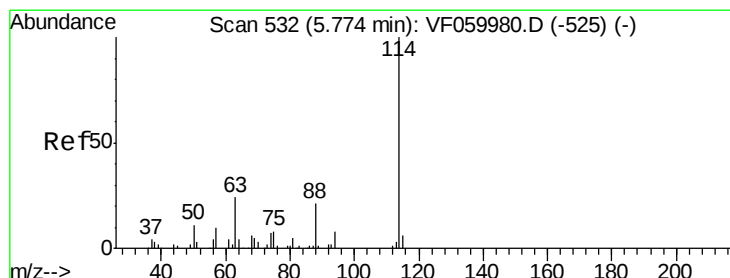
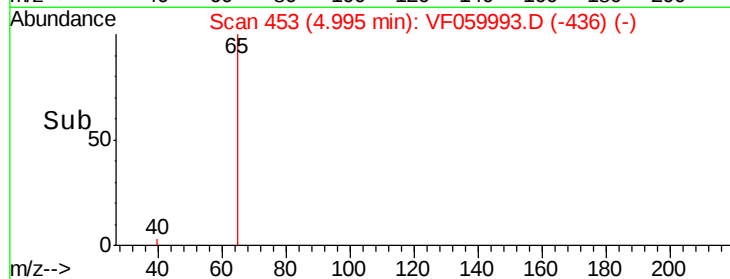
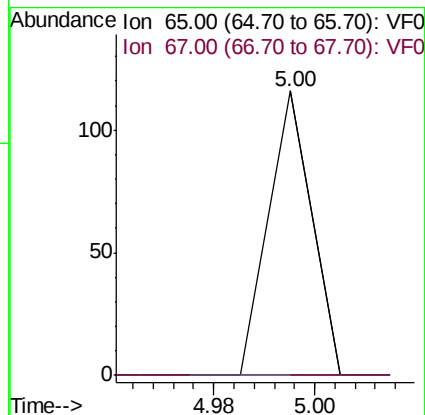
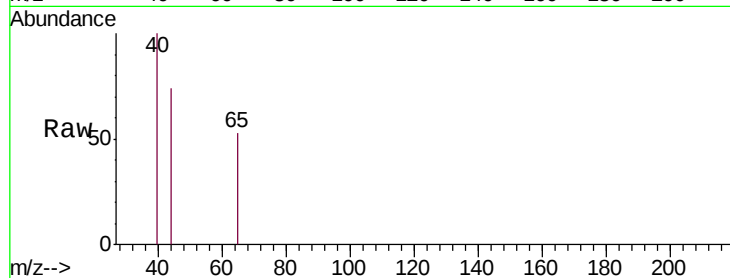
RA-081418-FL-024

Tgt Ion: 65 Resp: 69

Ion Ratio Lower Upper

65 100

67 0.0 0.0 82.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 531

Delta R.T. -0.01 min

Lab File: VF059993.D

Acq: 18 Aug 2018 1:24

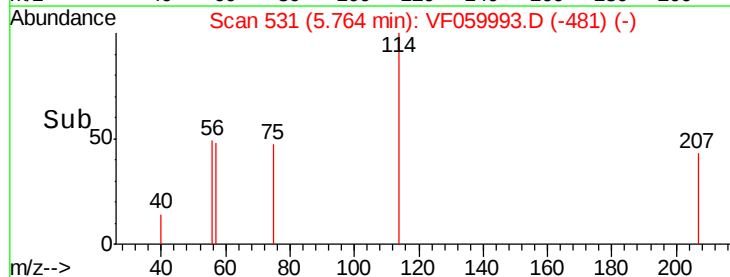
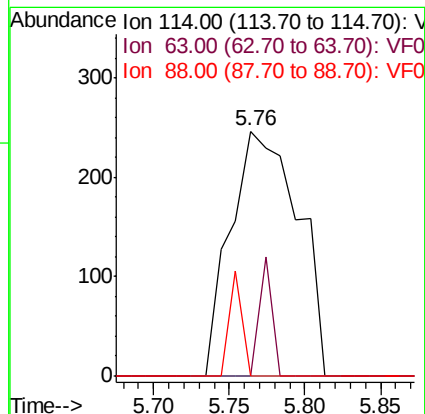
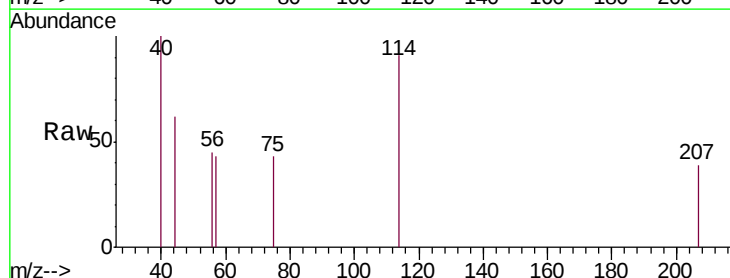
Tgt Ion: 114 Resp: 766

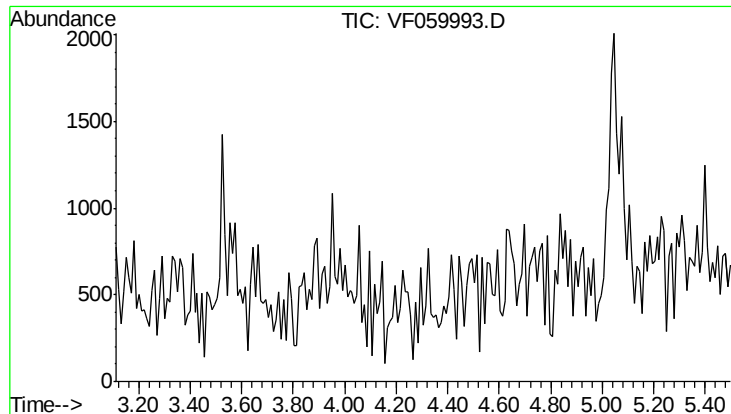
Ion Ratio Lower Upper

114 100

63 0.0 0.0 48.6

88 0.0 0.0 42.8

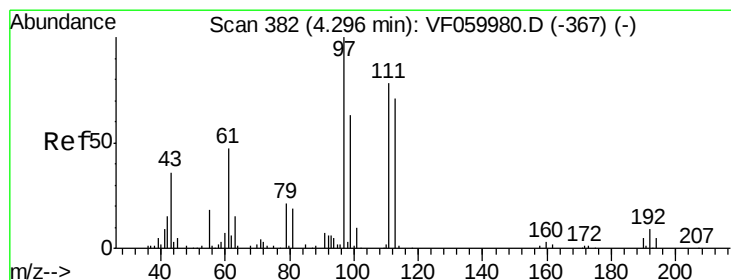
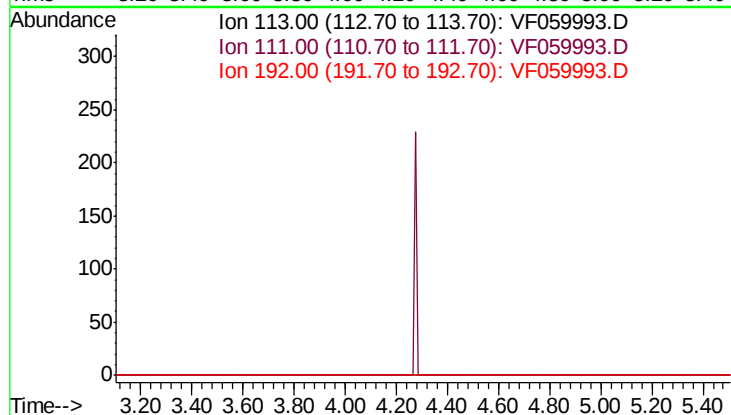




#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.31 min
 Lab File: VF059993.D
 Acq: 18 Aug 2018 1:24

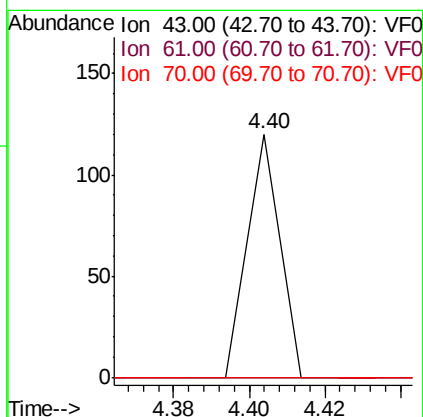
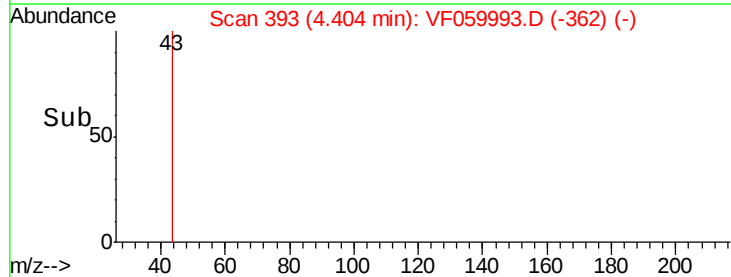
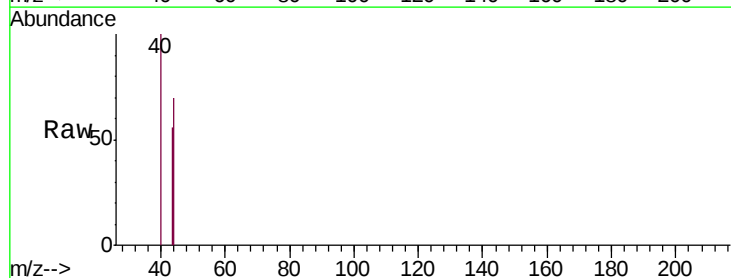
Instrument :
 MSVOA_F
 ClientSampleId :
 RA-081418-FL-024

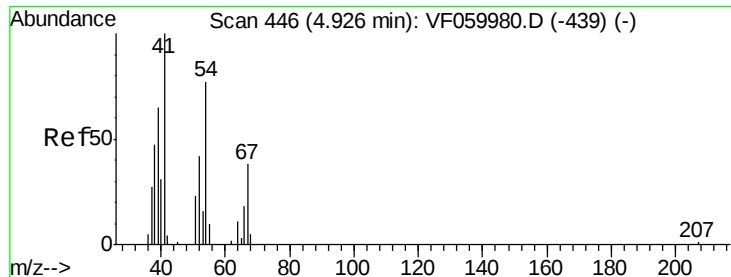
Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 99.4
 192 15.5



#37
 Ethyl Acetate
 Concen: 14.723 ug/l
 RT: 4.40 min Scan# 393
 Delta R.T. 0.11 min
 Lab File: VF059993.D
 Acq: 18 Aug 2018 1:24

Tgt Ion: 43 Resp: 71
 Ion Ratio Lower Upper
 43 100
 61 0.0 104.5 156.7#
 70 0.0 5.9 8.9#

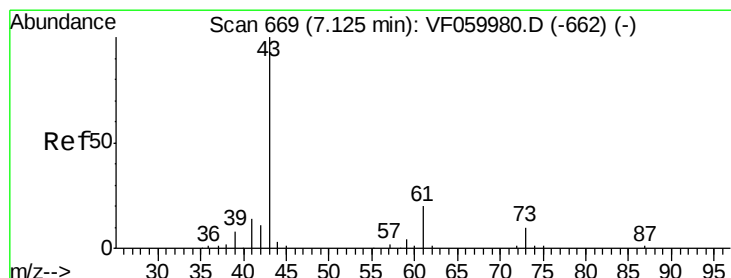
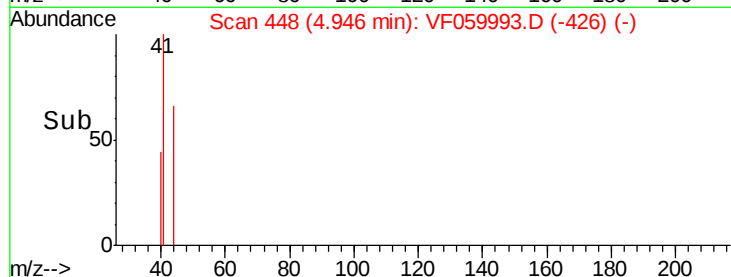
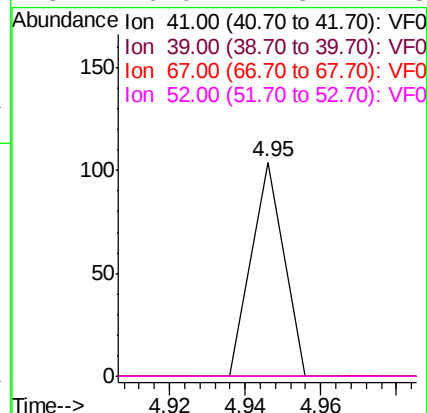
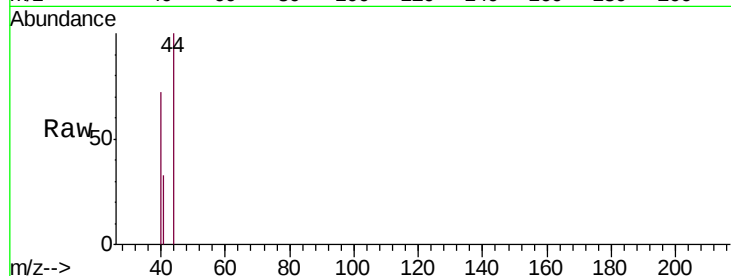




#41
Methacrylonitrile
Concen: 26.853 ug/l
RT: 4.95 min Scan# 448
Delta R.T. 0.02 min
Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

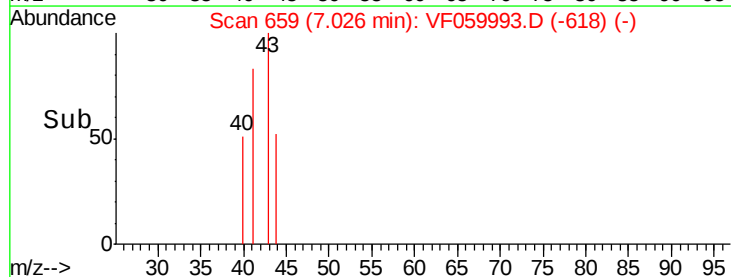
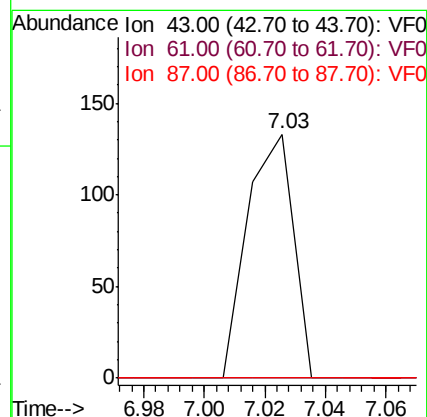
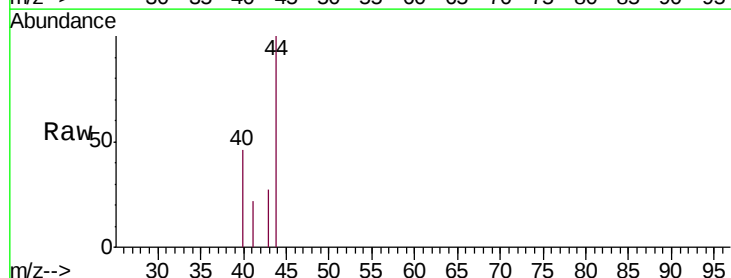
Instrument :
MSVOA_F
ClientSampleId :
RA-081418-FL-024

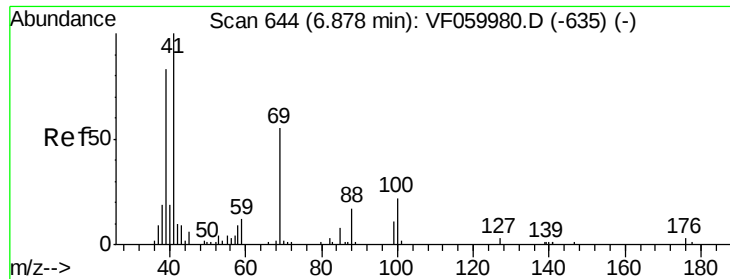
Tgt Ion:	41	Resp:	62
Ion	Ratio	Lower	Upper
41	100		
39	0.0	62.9	94.3#
67	0.0	30.4	45.6#
52	0.0	47.8	71.8#



#43
Isopropyl Acetate
Concen: 26.753 ug/l
RT: 7.03 min Scan# 659
Delta R.T. -0.10 min
Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

Tgt Ion:	43	Resp:	142
Ion	Ratio	Lower	Upper
43	100		
61	0.0	15.8	23.8#
87	0.0	0.6	0.8#

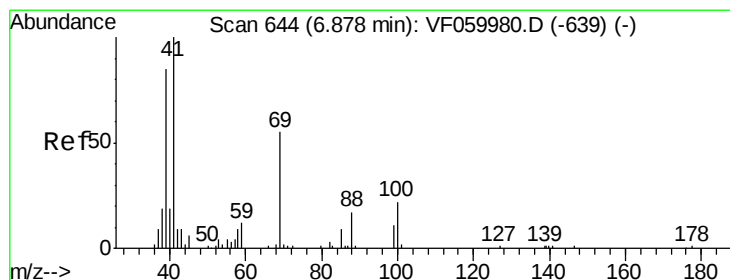
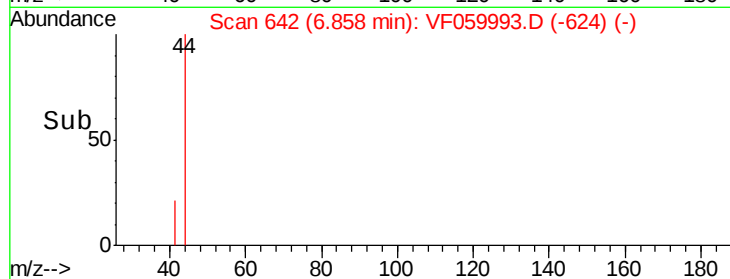
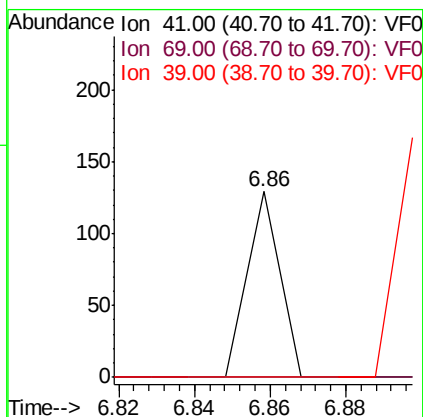
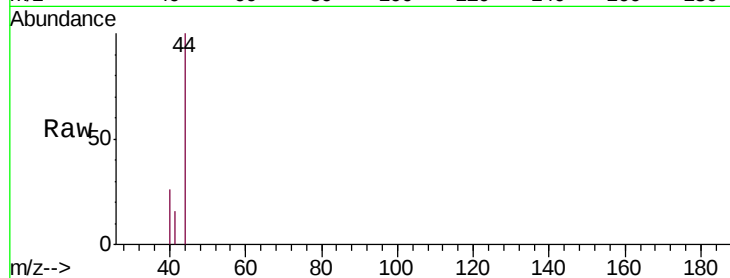




#48
Methyl methacrylate
Concen: 19.237 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.02 min
Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

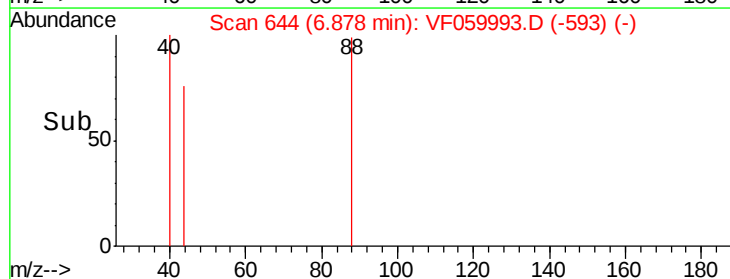
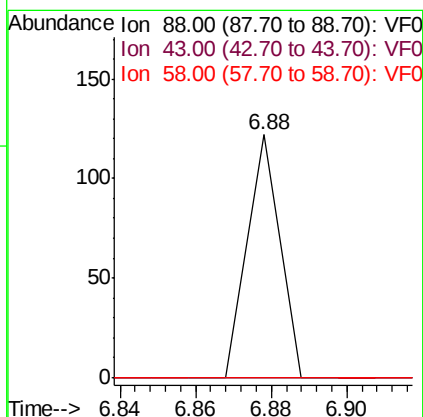
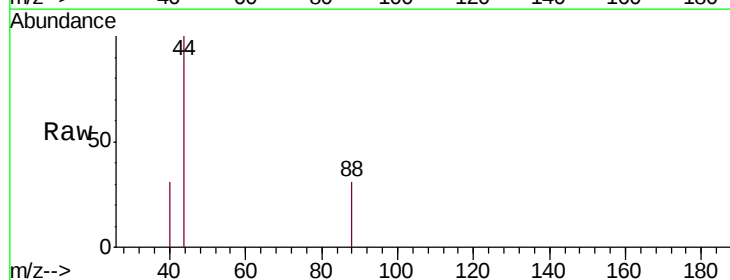
Instrument :
MSVOA_F
ClientSampleId :
RA-081418-FL-024

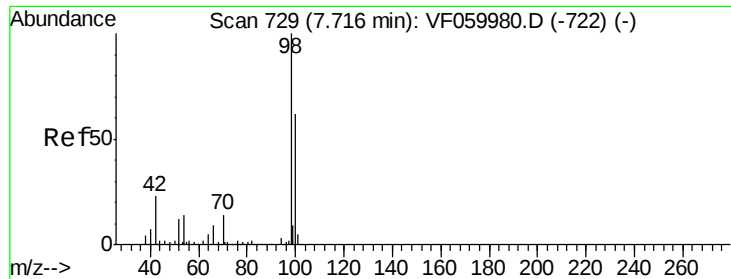
Tgt Ion: 41 Resp: 76
Ion Ratio Lower Upper
41 100
69 0.0 44.4 66.6#
39 0.0 67.8 101.6#



#49
1,4-Dioxane
Concen: 2014.789 ug/l
RT: 6.88 min Scan# 644
Delta R.T. -0.00 min
Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

Tgt Ion: 88 Resp: 72
Ion Ratio Lower Upper
88 100
43 0.0 43.2 64.8#
58 0.0 42.0 63.0#

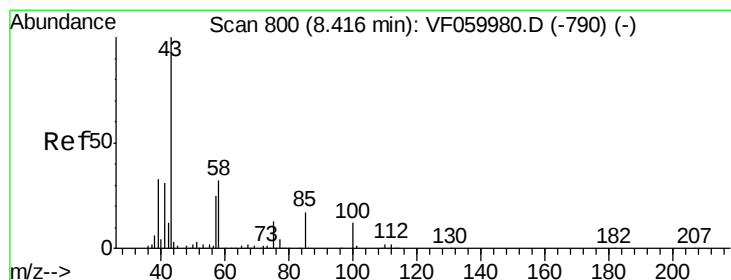
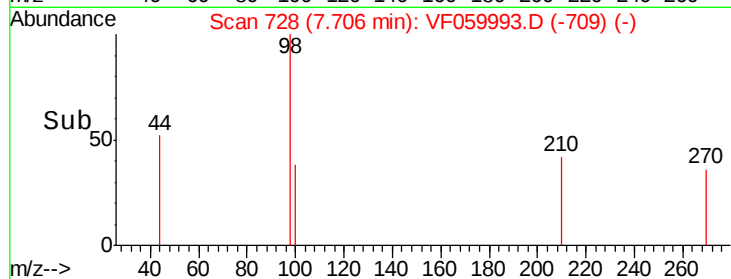
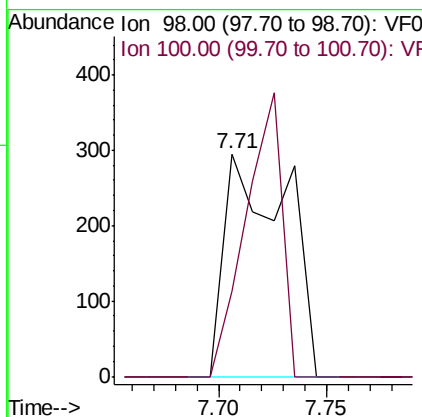
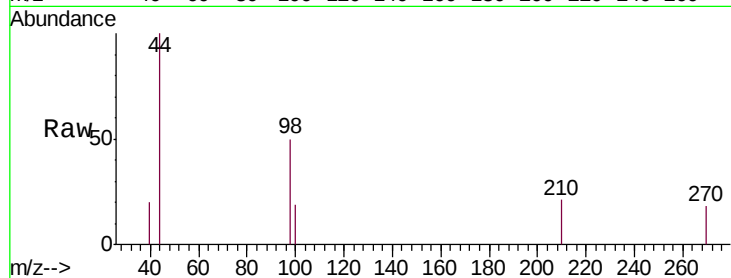




#50
Toluene-d8
Concen: 33.947 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

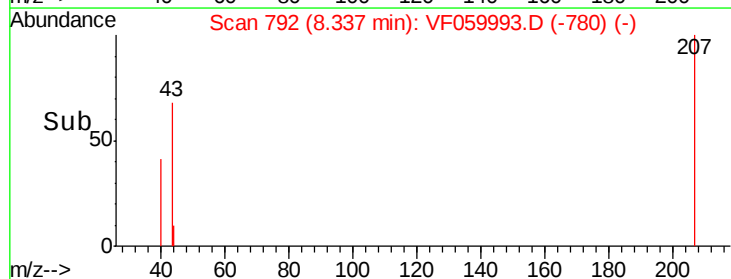
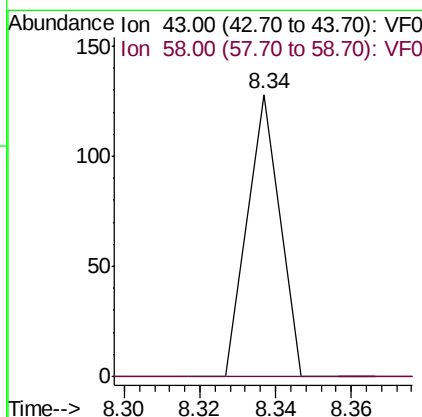
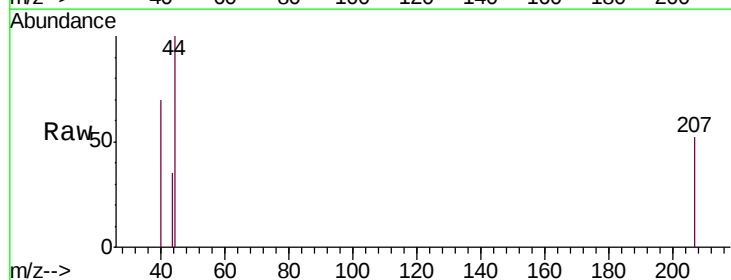
Instrument :
MSVOA_F
ClientSampleId :
RA-081418-FL-024

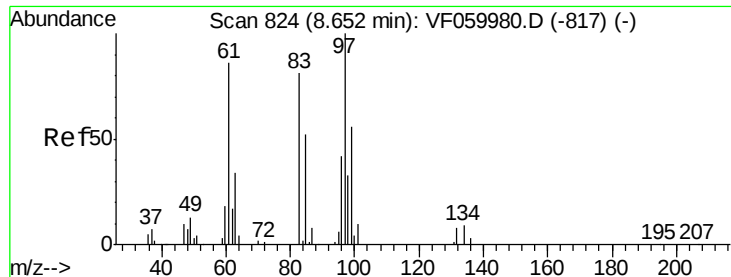
Tgt Ion: 98 Resp: 591
Ion Ratio Lower Upper
98 100
100 38.3 49.8 74.8#



#51
4-Methyl-2-Pentanone
Concen: 15.328 ug/l
RT: 8.34 min Scan# 792
Delta R.T. -0.08 min
Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

Tgt Ion: 43 Resp: 76
Ion Ratio Lower Upper
43 100
58 0.0 25.6 38.4#

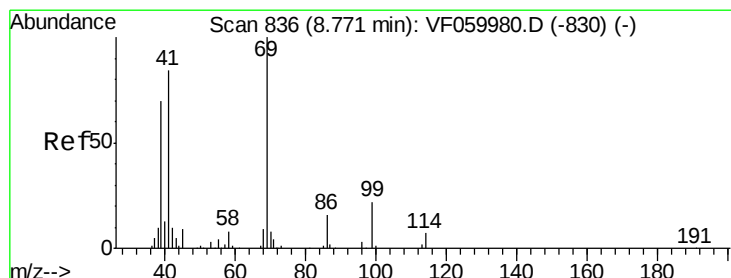
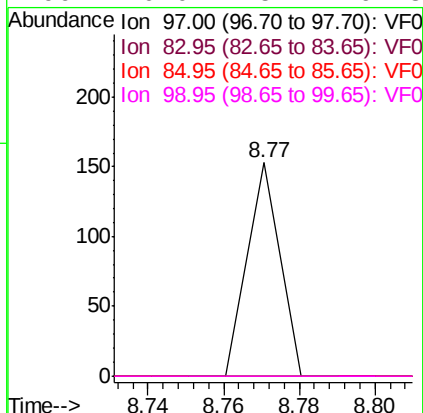
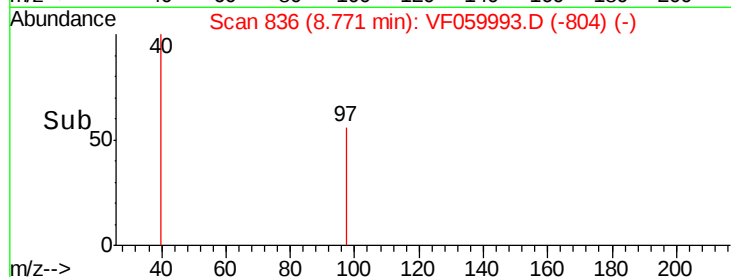
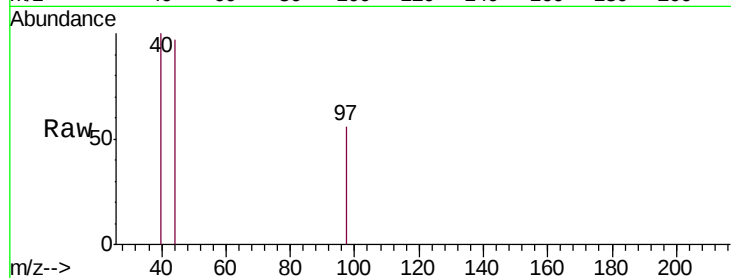




#55
 1,1,2-Trichloroethane
 Concen: 20.297 ug/l
 RT: 8.77 min Scan# 836
 Delta R.T. 0.12 min
 Lab File: VF059993.D
 Acq: 18 Aug 2018 1:24

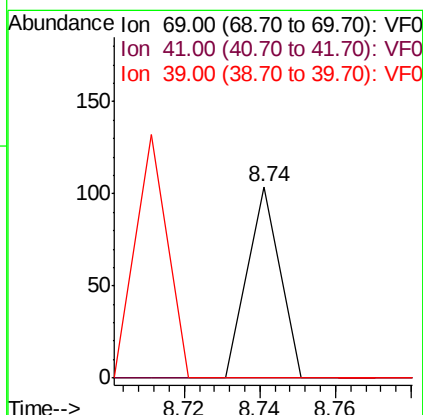
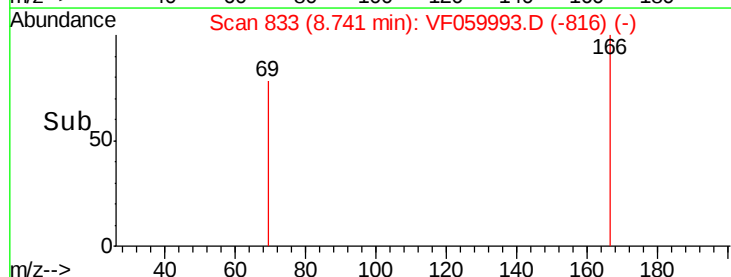
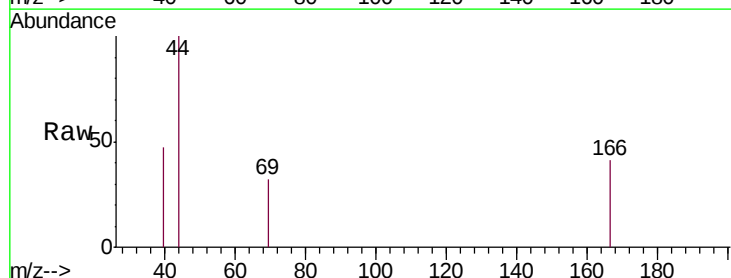
Instrument :
 MSVOA_F
 ClientSampleId :
 RA-081418-FL-024

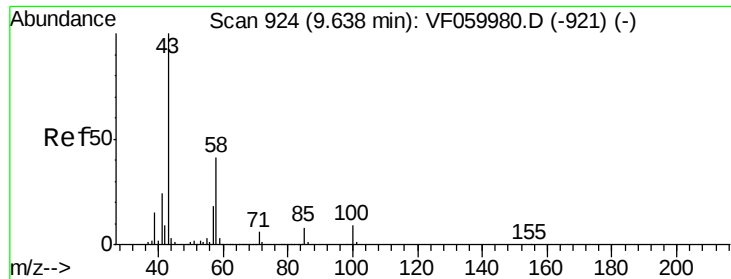
Tgt Ion:	97	Resp:	90
Ion	Ratio	Lower	Upper
97	100		
83	0.0	64.9	97.3#
85	0.0	41.8	62.6#
99	0.0	45.2	67.8#



#56
 Ethyl methacrylate
 Concen: 11.874 ug/l
 RT: 8.74 min Scan# 833
 Delta R.T. -0.03 min
 Lab File: VF059993.D
 Acq: 18 Aug 2018 1:24

Tgt Ion:	69	Resp:	61
Ion	Ratio	Lower	Upper
69	100		
41	0.0	67.8	101.6#
39	150.0	55.8	83.6#

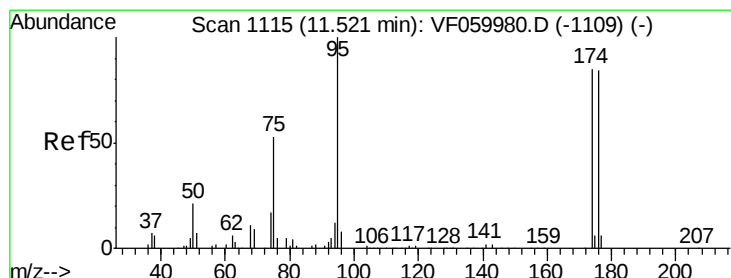
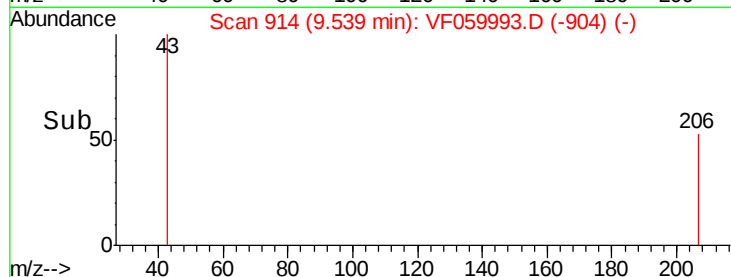
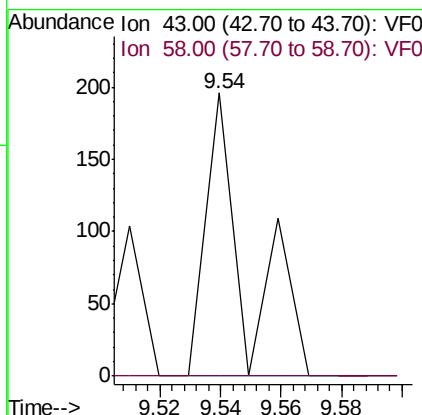
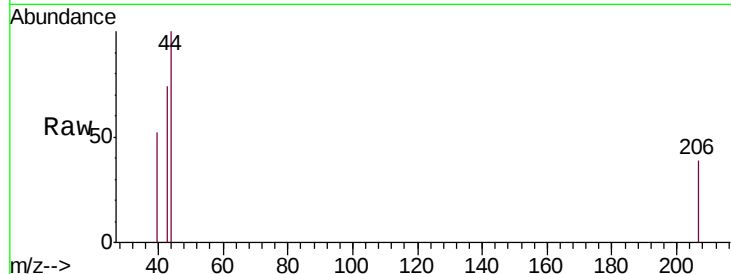




#59
2-Hexanone
Concen: 43.968 ug/l
RT: 9.54 min Scan# 914
Delta R.T. -0.10 min
Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

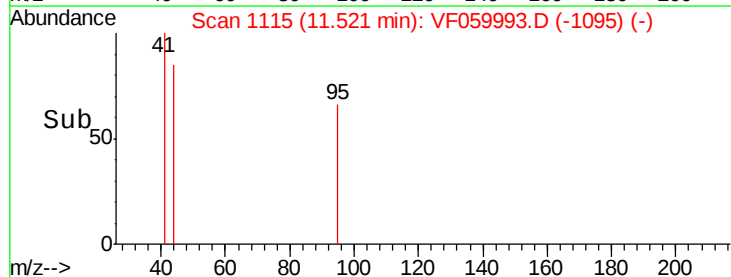
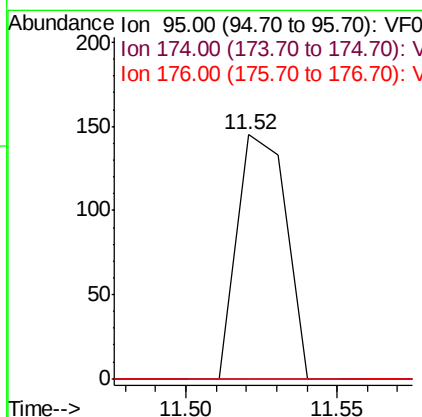
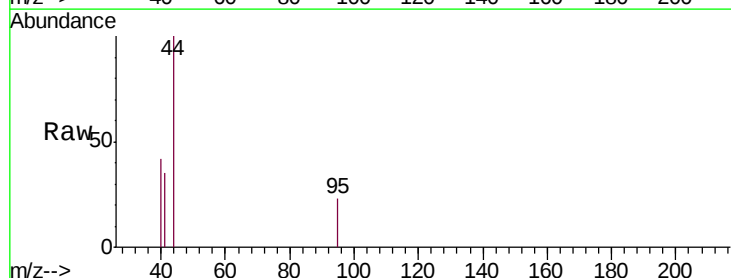
Instrument :
MSVOA_F
ClientSampleId :
RA-081418-FL-024

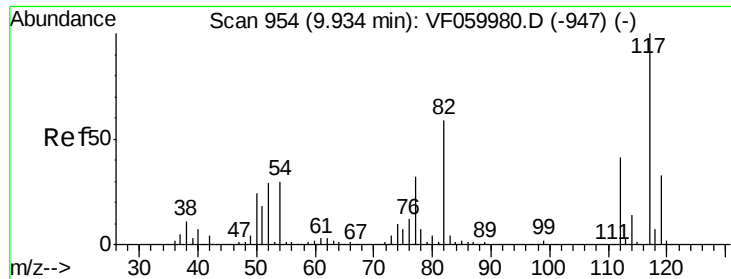
Tgt Ion: 43 Resp: 180
Ion Ratio Lower Upper
43 100
58 0.0 20.1 60.3#



#62
4-Bromofluorobenzene
Concen: 15.351 ug/l
RT: 11.52 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

Tgt Ion: 95 Resp: 164
Ion Ratio Lower Upper
95 100
174 0.0 0.0 169.8
176 0.0 0.0 167.8

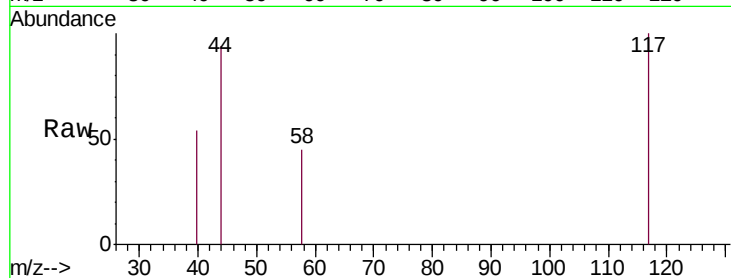




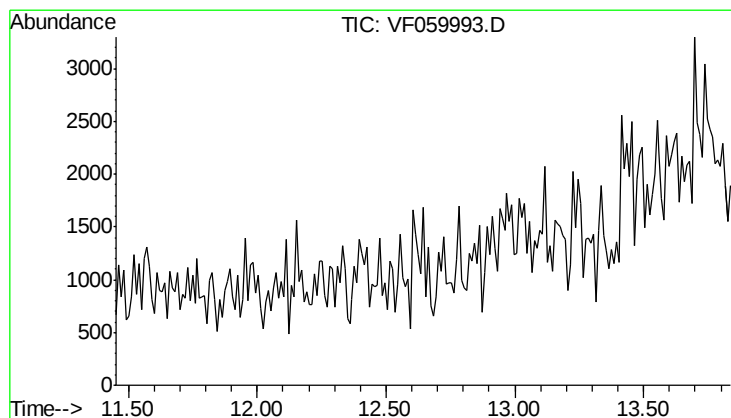
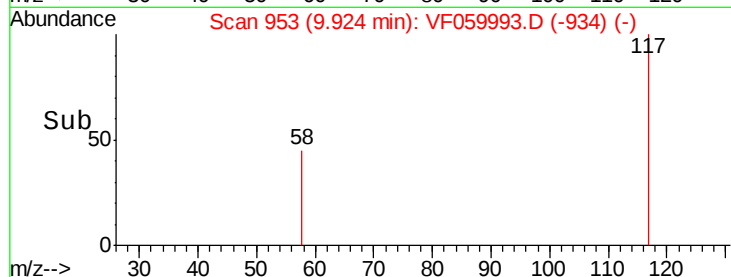
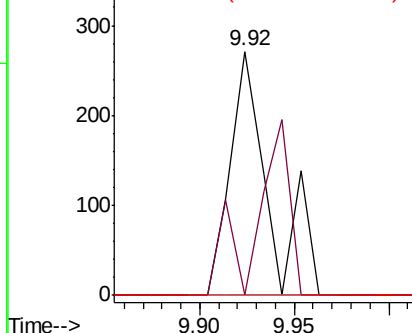
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 953
Delta R.T. -0.01 min
Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

Instrument :
MSVOA_F
ClientSampleId :
RA-081418-FL-024

Tgt Ion: 117 Resp: 386
Ion Ratio Lower Upper
117 100
82 0.0 47.2 70.8#
119 0.0 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: 0.000 ug/l
Expected RT: 12.64 min

Lab File: VF059993.D
Acq: 18 Aug 2018 1:24

Tgt Ion: 152
Sig Exp Ratio
152 100
115 58.2
150 165.1

