

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082018\
 Data File : VF060005.D
 Acq On : 20 Aug 2018 16:37
 Operator : VA/AP
 Sample : J4277-05
 Misc : 11.20g/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-081718-A

Quant Time: Aug 21 04:26:55 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	451	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	295	50.00	ug/l	-0.01
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.93
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.64

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount				50.000		
			Recovery	=	0.00%	
35) Dibromofluoromethane	4.28	113	69	22.89	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	45.78%	
50) Toluene-d8	7.71	98	344	51.31	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	102.62%	
62) 4-Bromofluorobenzene	11.52	95	82	19.93	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	39.86%	

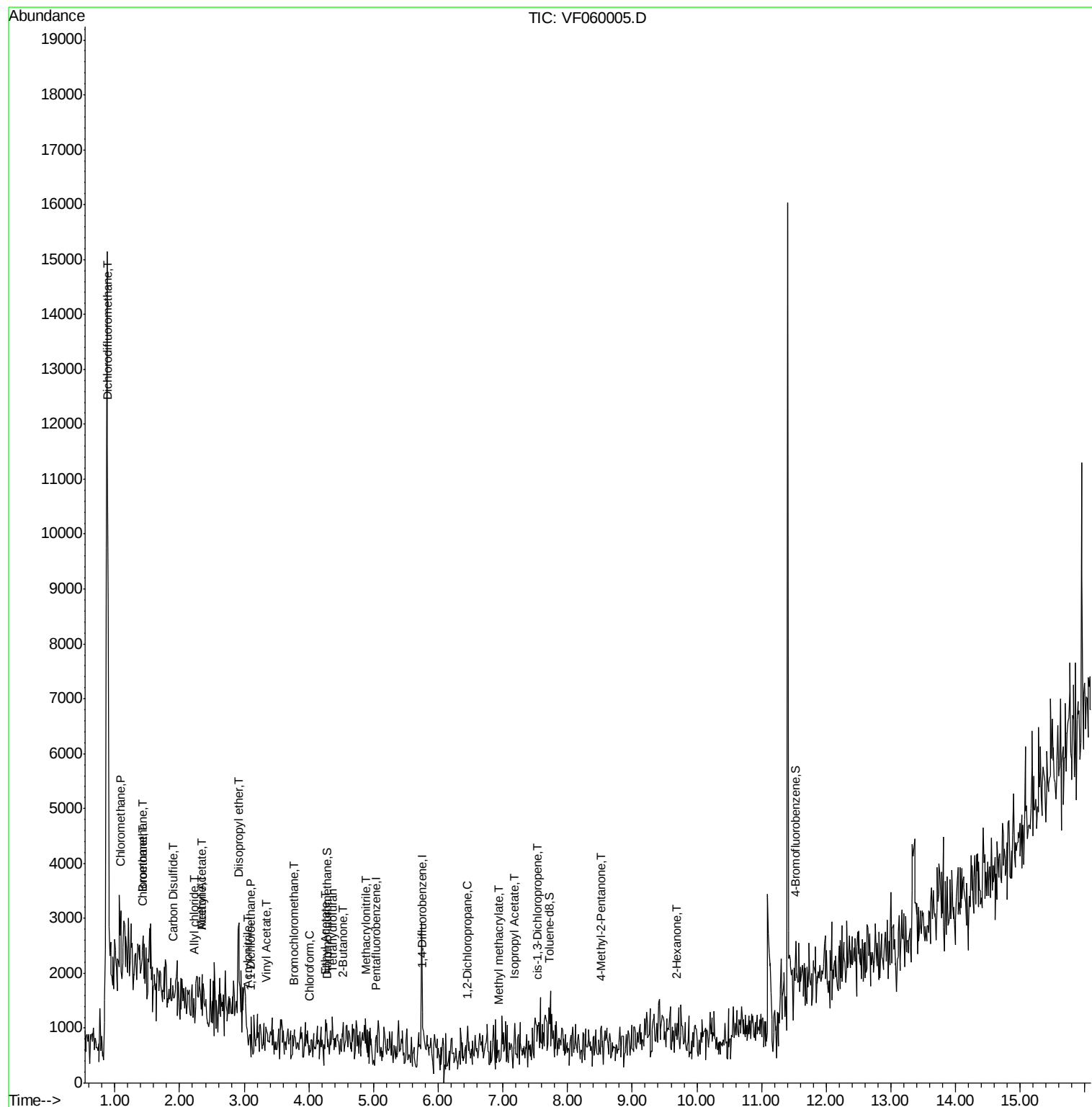
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.89	85	66	8.63	ug/l #	43
3) Chloromethane	1.10	50	267	75.98	ug/l #	45
5) Bromomethane	1.44	94	67	15.86	ug/l #	3
6) Chloroethane	1.42	64	355	149.68	ug/l #	44
14) Allyl chloride	2.23	41	72	10.01	ug/l #	70
15) Acrylonitrile	3.06	53	76	92.64	ug/l #	11
16) Acetone	2.34	43	79	22.65	ug/l #	64
17) Carbon Disulfide	1.89	76	66	4.90	ug/l #	75
18) Methyl Acetate	2.34	43	79	15.67	ug/l #	63
22) Diisopropyl ether	2.92	45	61	3.97	ug/l #	37
23) Vinyl Acetate	3.33	43	107	17.28	ug/l #	84
24) 1,1-Dichloroethane	3.08	63	60	5.95	ug/l #	90
25) 2-Butanone	4.52	43	94	44.67	ug/l #	63
28) Bromochloromethane	3.77	49	62	21.42	ug/l #	8
29) Tetrahydrofuran	4.35	42	111	147.79	ug/l #	38
30) Chloroform	4.01	83	73	6.26	ug/l #	20
37) Ethyl Acetate	4.27	43	235	126.54	ug/l #	1
41) Methacrylonitrile	4.89	41	134	150.70	ug/l #	19
43) Isopropyl Acetate	7.18	43	78	38.16	ug/l #	58
45) 1,2-Dichloropropane	6.43	63	61	37.49	ug/l #	43
48) Methyl methacrylate	6.93	41	73	47.98	ug/l #	14
51) 4-Methyl-2-Pentanone	8.52	43	61	31.95	ug/l #	43
54) cis-1,3-Dichloropropene	7.54	75	64	18.14	ug/l #	18
59) 2-Hexanone	9.69	43	78	49.47	ug/l #	35

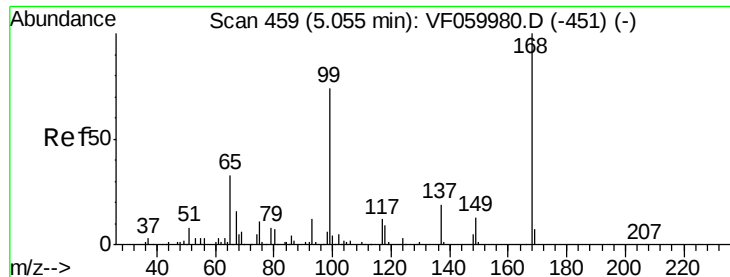
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 18 01:11:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

Instrument :

MSVOA_F

ClientSampleId :

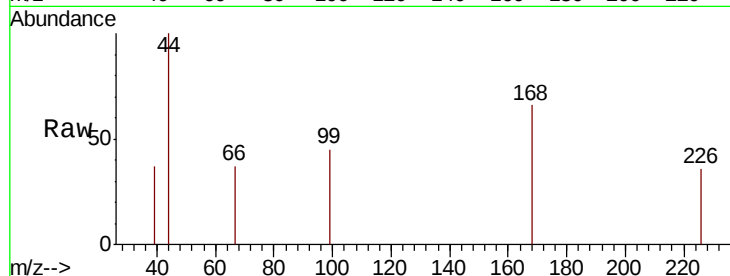
OR-03-081718-A

Tot Ion:168 Resp: 451

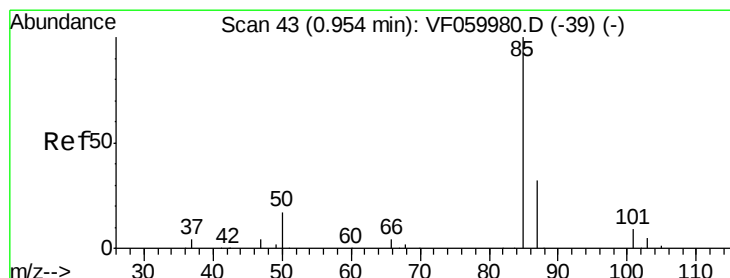
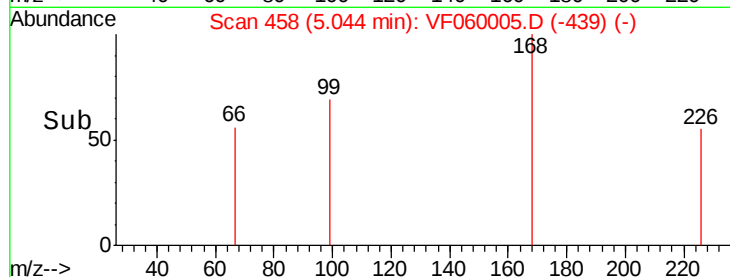
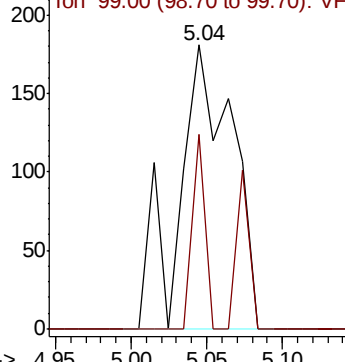
Ion Ratio Lower Upper

168 100

99 68.5 59.0 88.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 8.63 ug/l

RT: 0.89 min Scan# 37

Delta R.T. -0.06 min

Lab File: VF060005.D

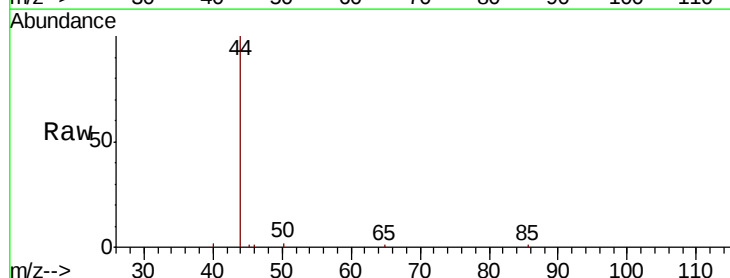
Acq: 20 Aug 2018 16:37

Tgt Ion: 85 Resp: 66

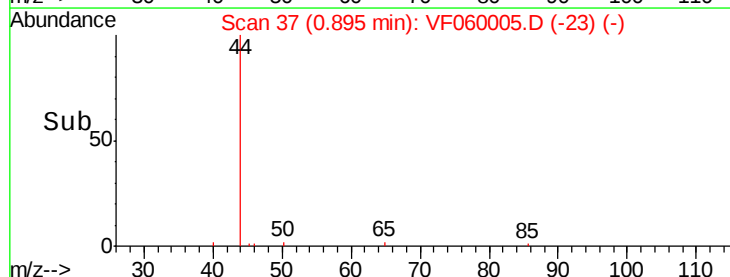
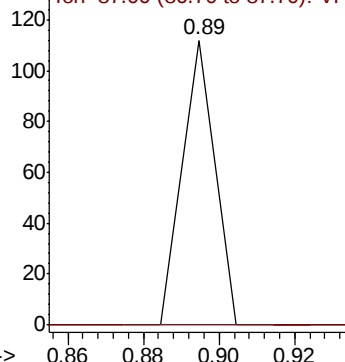
Ion Ratio Lower Upper

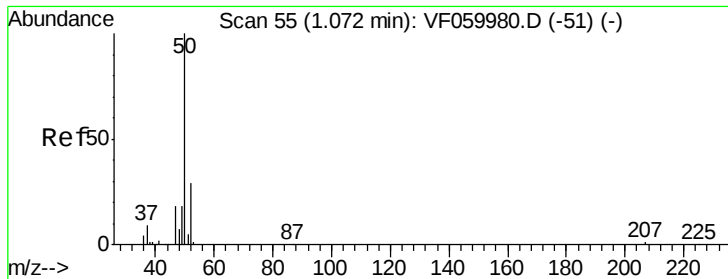
85 100

87 0.0 15.9 47.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 75.98 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.03 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

Instrument :

MSVOA_F

ClientSampleId :

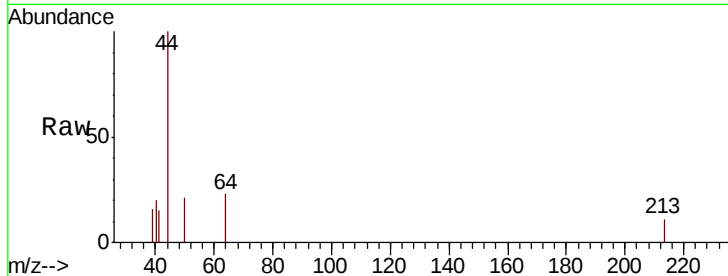
OR-03-081718-A

Tot Ion: 50 Resp: 267

Ion Ratio Lower Upper

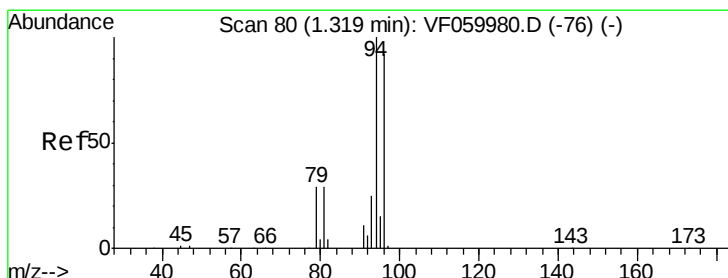
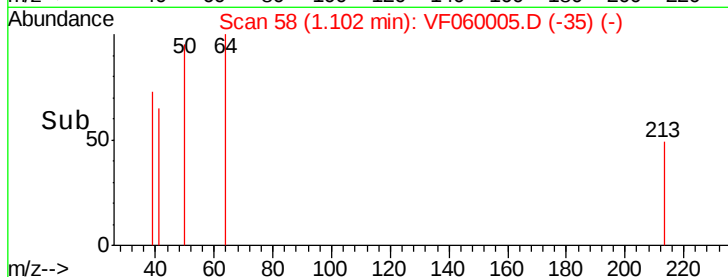
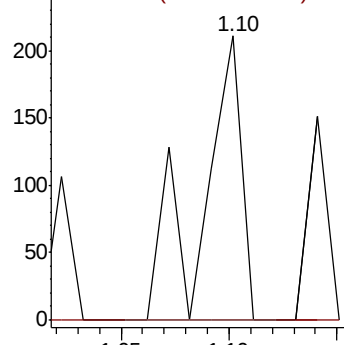
50 100

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



#5

Bromomethane

Concen: 15.86 ug/l

RT: 1.44 min Scan# 92

Delta R.T. 0.12 min

Lab File: VF060005.D

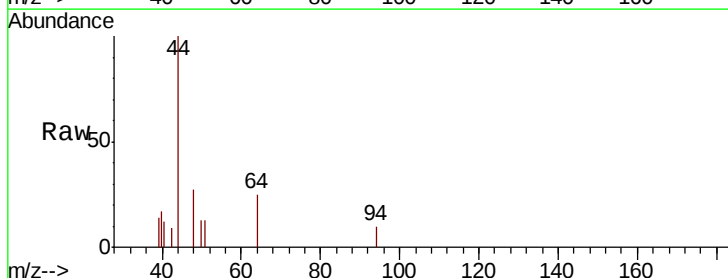
Acq: 20 Aug 2018 16:37

Tgt Ion: 94 Resp: 67

Ion Ratio Lower Upper

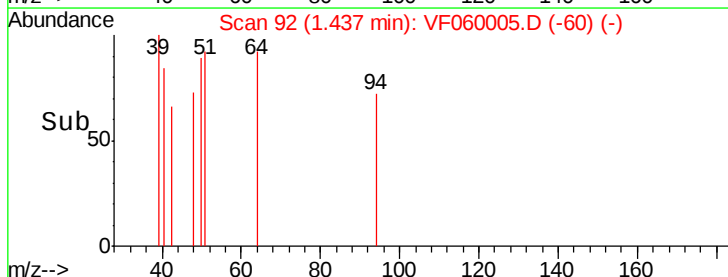
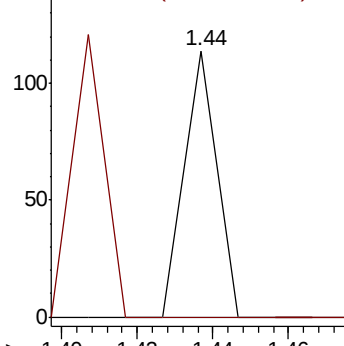
94 100

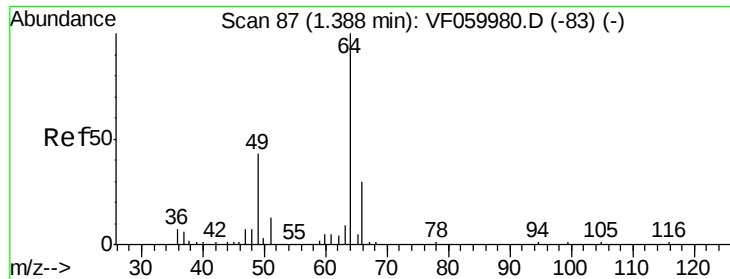
96 0.0 73.9 110.9#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0





#6

Chloroethane

Concen: 149.68 ug/l

RT: 1.42 min Scan# 90

Delta R.T. 0.03 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

Instrument :

MSVOA_F

ClientSampleId :

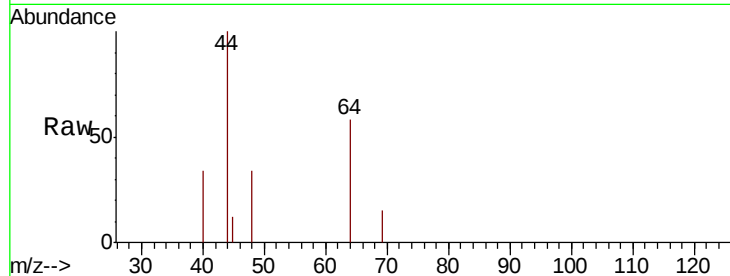
OR-03-081718-A

Tot Ion: 64 Resp: 355

Ion Ratio Lower Upper

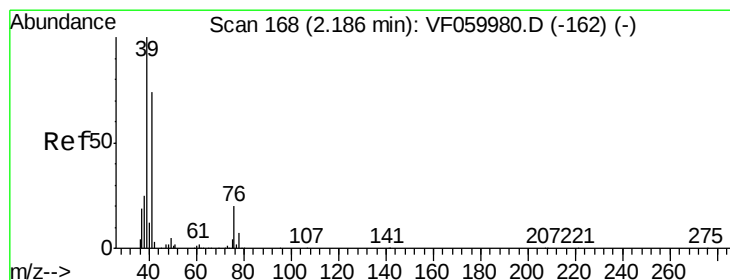
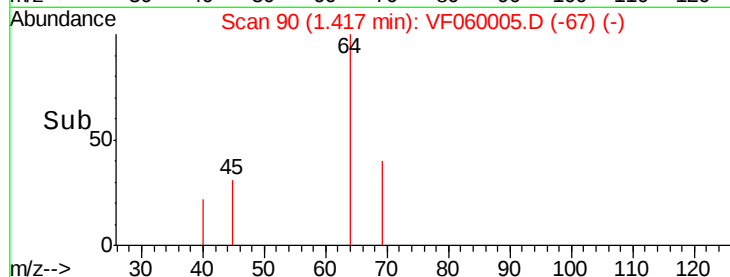
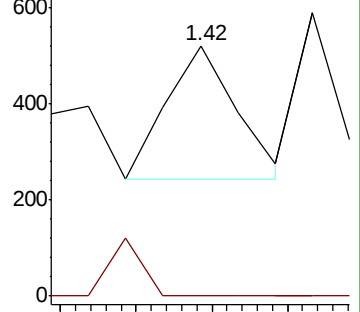
64 100

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



#14

Allyl chloride

Concen: 10.01 ug/l

RT: 2.23 min Scan# 172

Delta R.T. 0.04 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

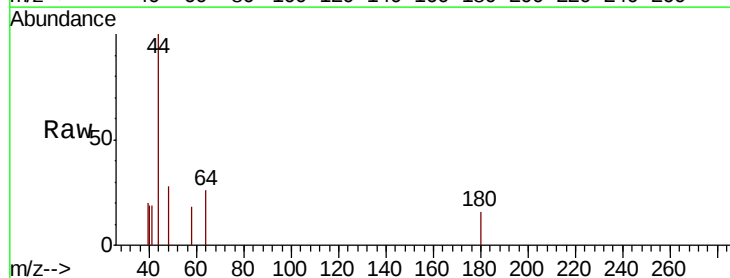
Tgt Ion: 41 Resp: 72

Ion Ratio Lower Upper

41 100

39 105.0 109.3 163.9#

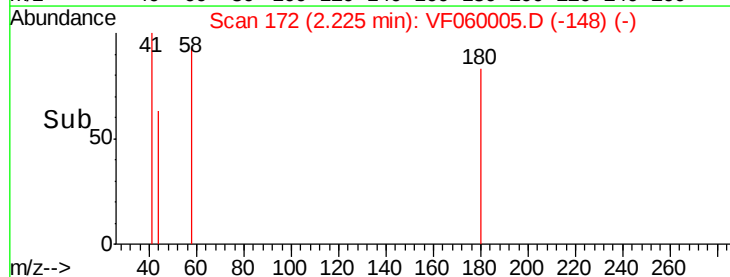
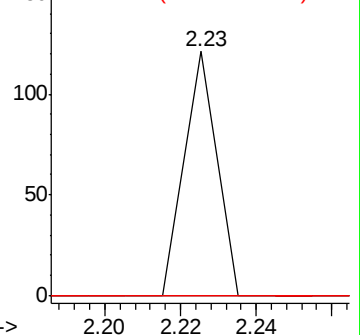
76 0.0 21.3 31.9#

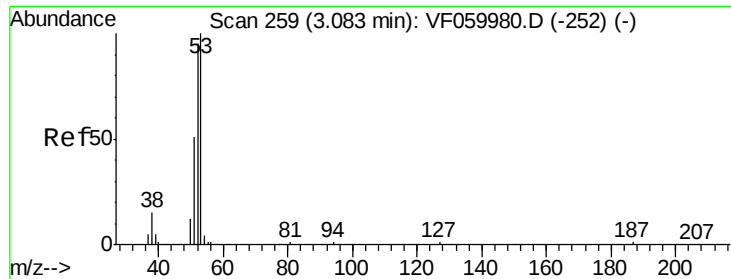


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 92.64 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.02 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

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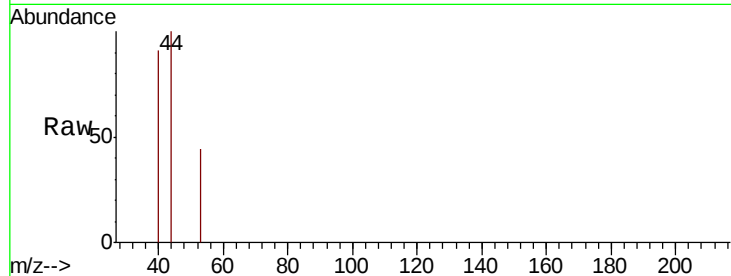
Tot Ion: 53 Resp: 76

Ion Ratio Lower Upper

53 100

52 0.0 76.0 114.0#

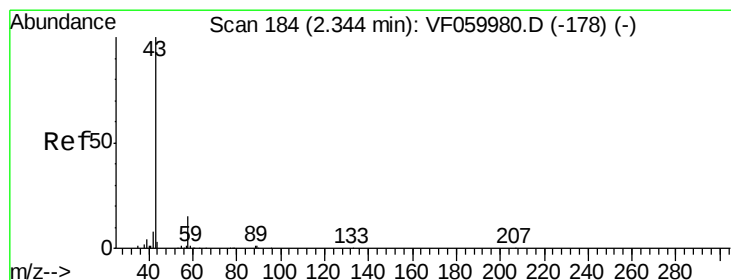
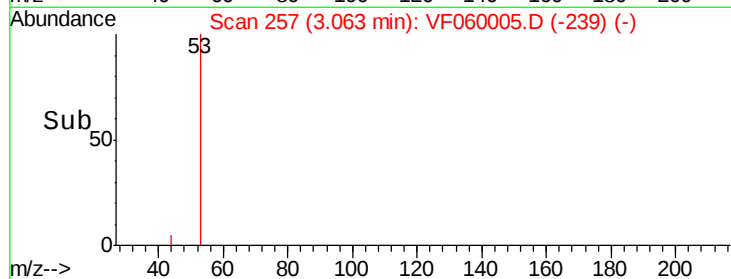
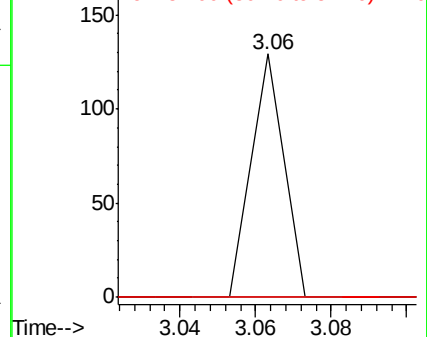
51 0.0 41.9 62.9#



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: 22.65 ug/l

RT: 2.34 min Scan# 184

Delta R.T. 0.00 min

Lab File: VF060005.D

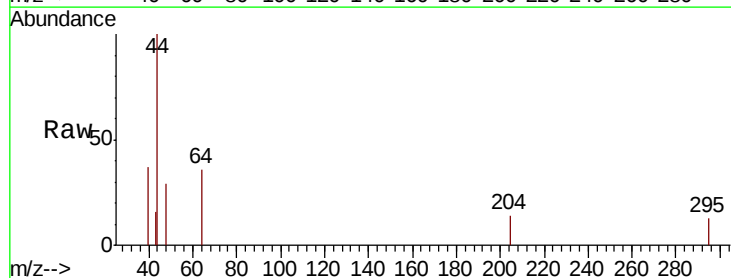
Acq: 20 Aug 2018 16:37

Tgt Ion: 43 Resp: 79

Ion Ratio Lower Upper

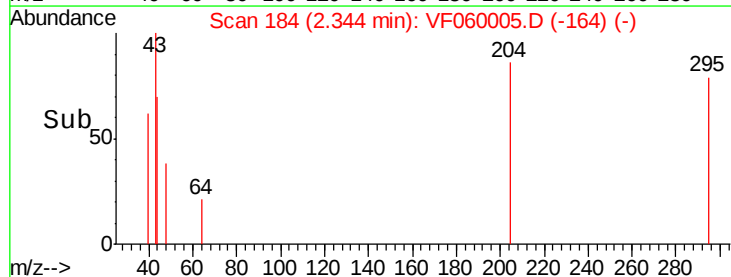
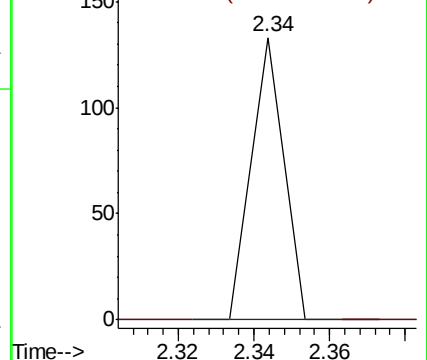
43 100

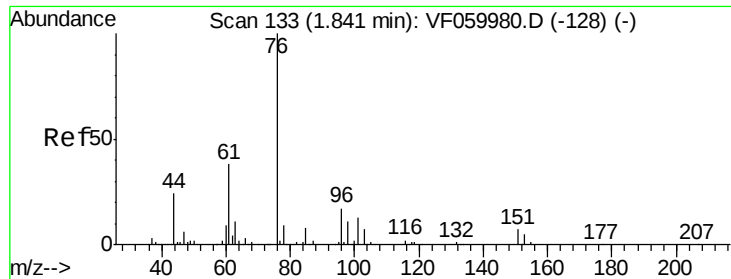
58 0.0 11.9 17.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

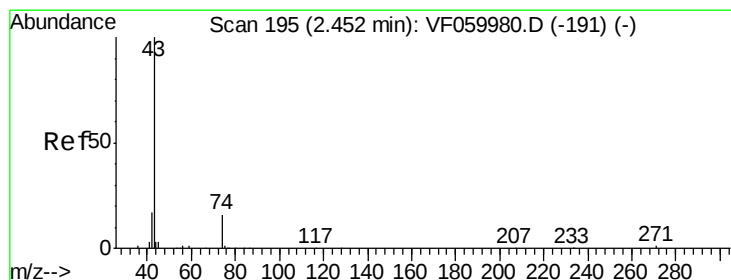
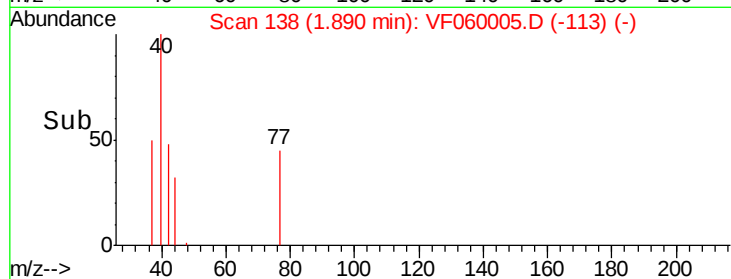
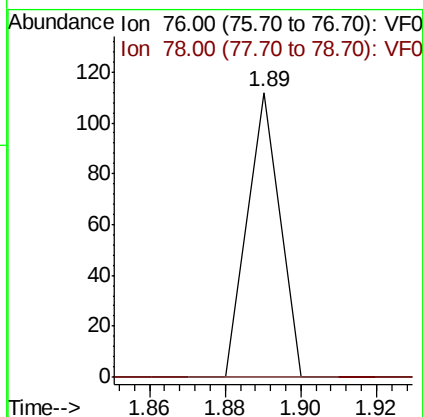
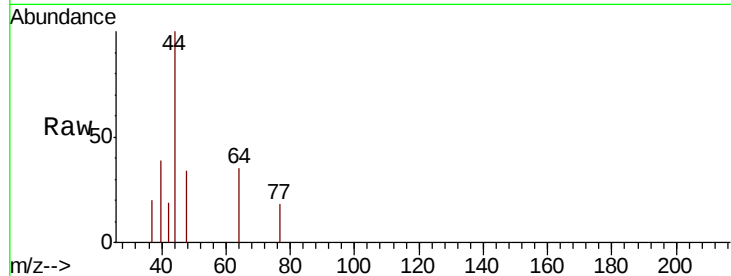




#17
Carbon Disulfide
Concen: 4.90 ug/l
RT: 1.89 min Scan# 138
Delta R.T. 0.05 min
Lab File: VF060005.D
Acq: 20 Aug 2018 16:37

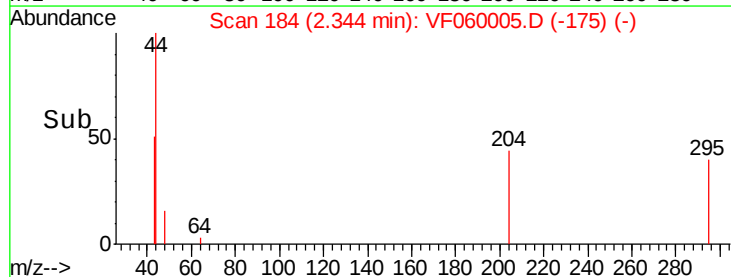
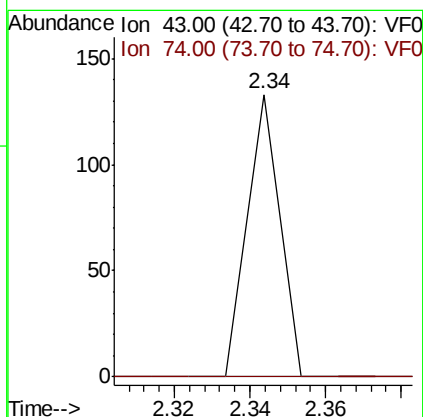
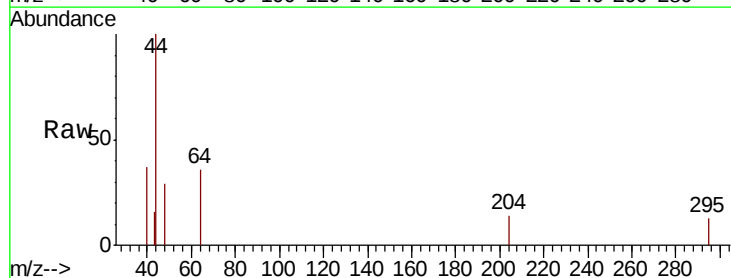
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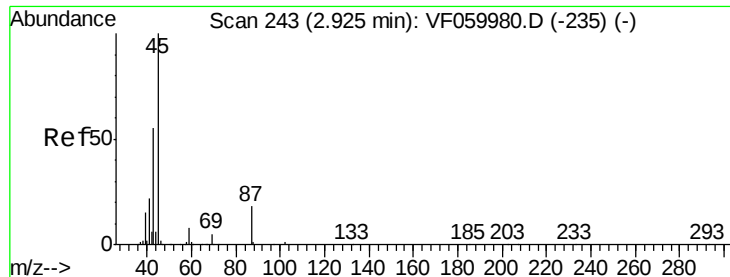
Tot Ion: 76 Resp: 66
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 15.67 ug/l
RT: 2.34 min Scan# 184
Delta R.T. -0.11 min
Lab File: VF060005.D
Acq: 20 Aug 2018 16:37

Tgt Ion: 43 Resp: 79
Ion Ratio Lower Upper
43 100
74 0.0 12.3 18.5#

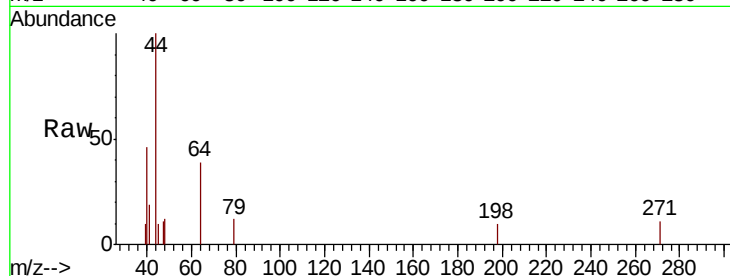




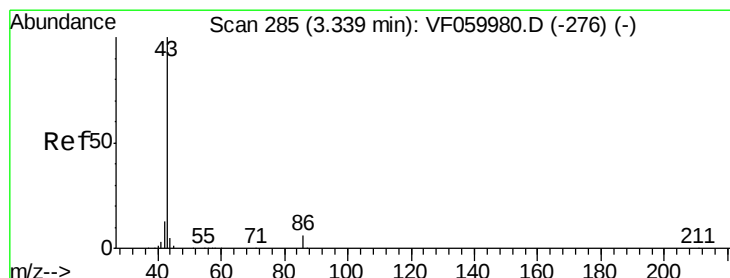
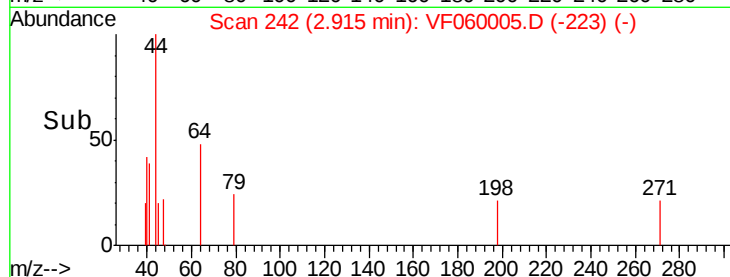
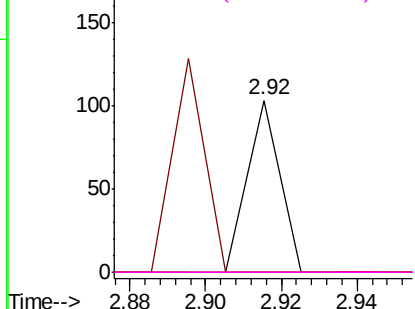
#22
Diisopropyl ether
Concen: 3.97 ug/l
RT: 2.92 min Scan# 242
Delta R.T. -0.01 min
Lab File: VF060005.D
Acq: 20 Aug 2018 16:37

Instrument :
MSVOA_F
ClientSampleId :
OR-03-081718-A

Tot Ion:	45	Resp:	61
Ion	Ratio	Lower	Upper
45	100		
43	0.0	44.8	67.2#
87	0.0	14.6	21.8#
59	0.0	6.8	10.2#

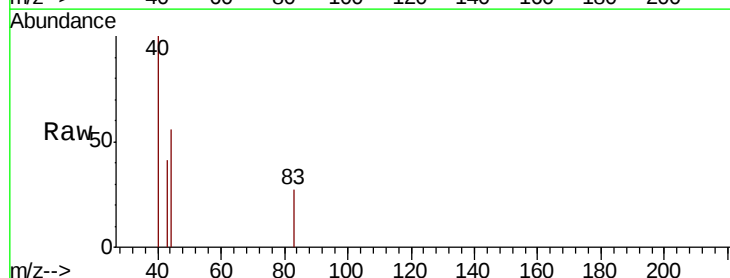


Abundance Ion 45.00 (44.70 to 45.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 87.00 (86.70 to 87.70): VF0
Ion 59.00 (58.70 to 59.70): VF0

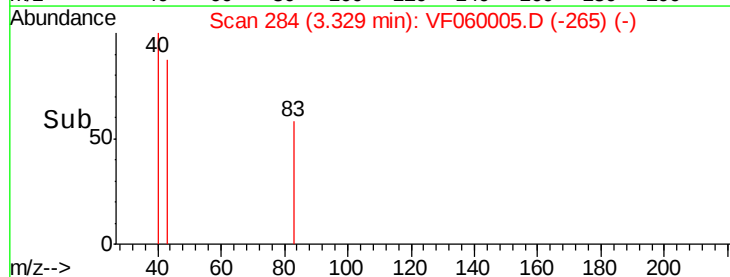
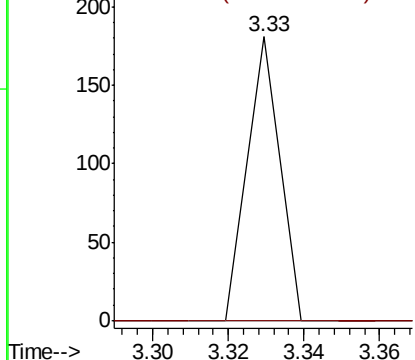


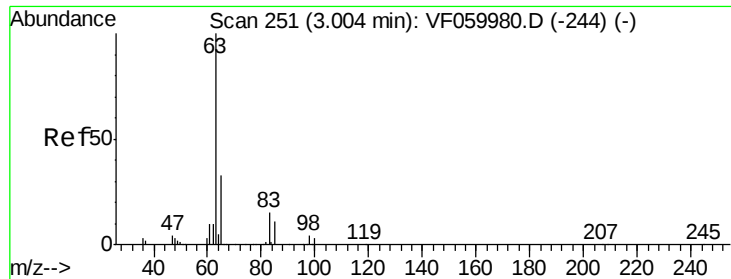
#23
Vinyl Acetate
Concen: 17.28 ug/l
RT: 3.33 min Scan# 284
Delta R.T. -0.01 min
Lab File: VF060005.D
Acq: 20 Aug 2018 16:37

Tgt Ion:	43	Resp:	107
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





#24

1,1-Dichloroethane

Concen: 5.95 ug/l

RT: 3.08 min Scan# 259

Delta R.T. 0.08 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

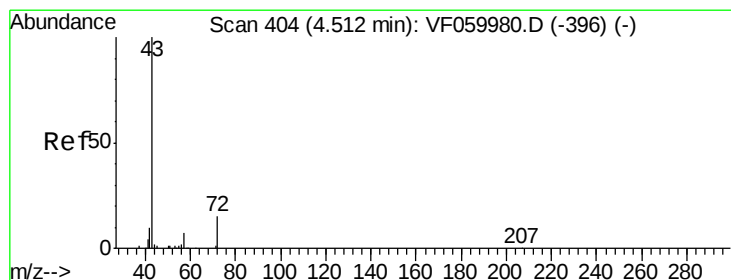
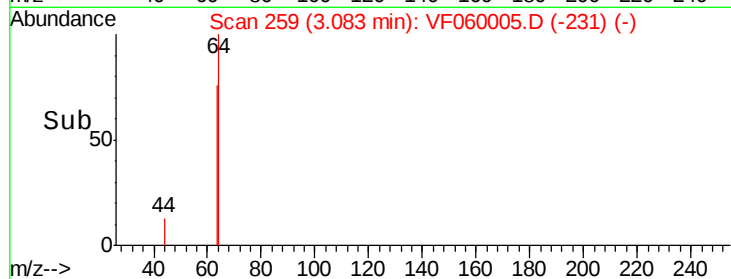
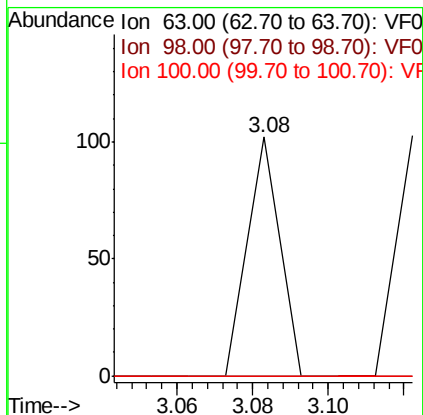
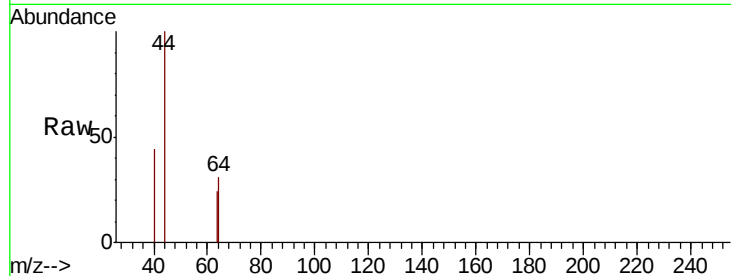
Instrument :

MSVOA_F

ClientSampleId :

OR-03-081718-A

Tot Ion:	63	Resp:	60
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.0	5.8#
100	0.0	1.4	4.2#



#25

2-Butanone

Concen: 44.67 ug/l

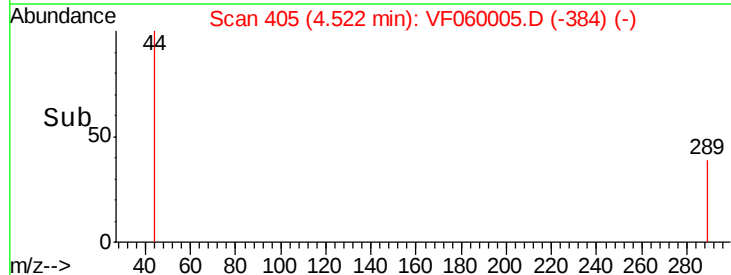
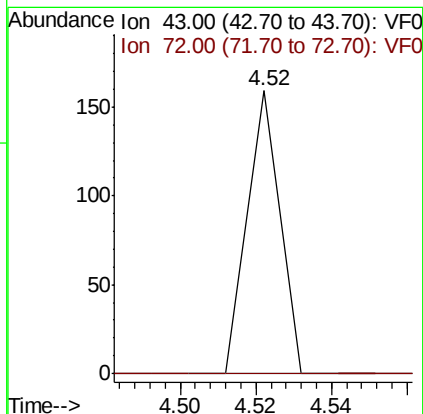
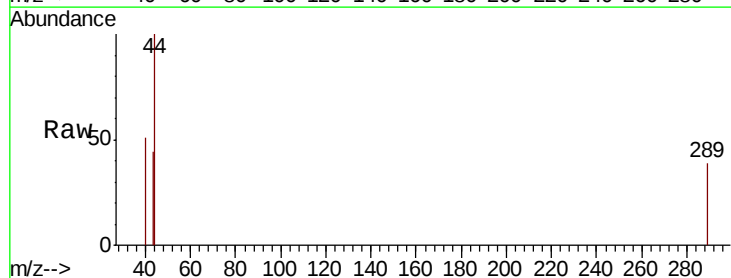
RT: 4.52 min Scan# 405

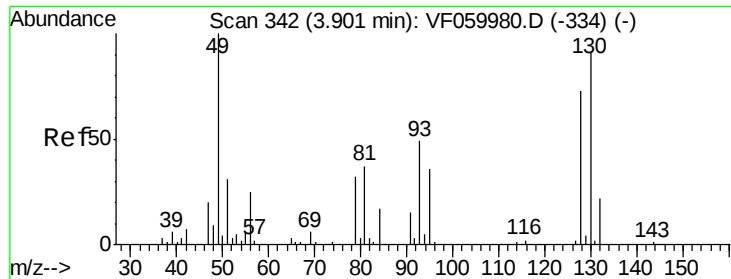
Delta R.T. 0.01 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

Tgt Ion:	43	Resp:	94
Ion	Ratio	Lower	Upper
43	100		
72	0.0	12.5	18.7#





#28

Bromochloromethane

Concen: 21.42 ug/l

RT: 3.77 min Scan# 329

Delta R.T. -0.13 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

Instrument :

MSVOA_F

ClientSampleId :

OR-03-081718-A

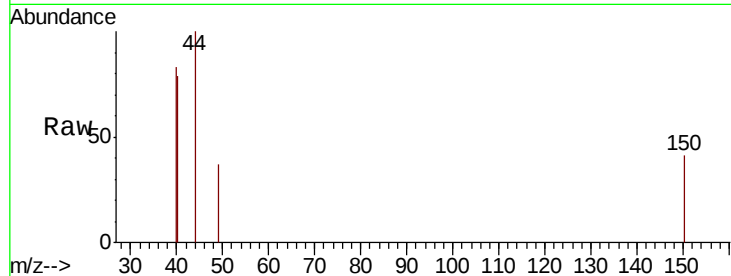
Tot Ion: 49 Resp: 62

Ion Ratio Lower Upper

49 100

129 0.0 0.0 7.6

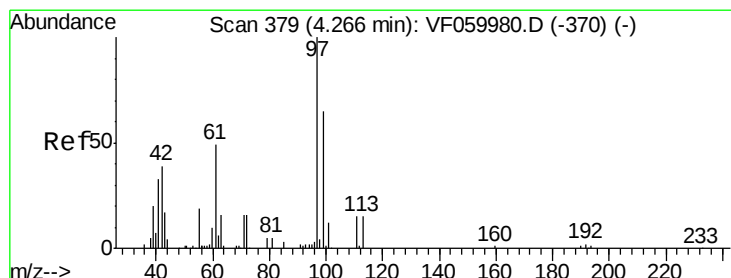
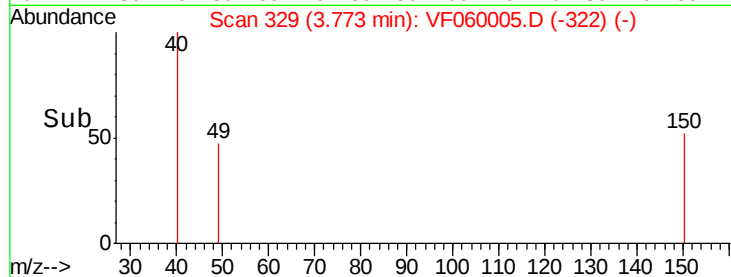
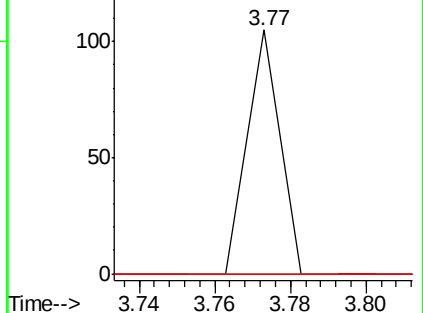
130 0.0 71.3 106.9#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: 147.79 ug/l

RT: 4.35 min Scan# 388

Delta R.T. 0.09 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

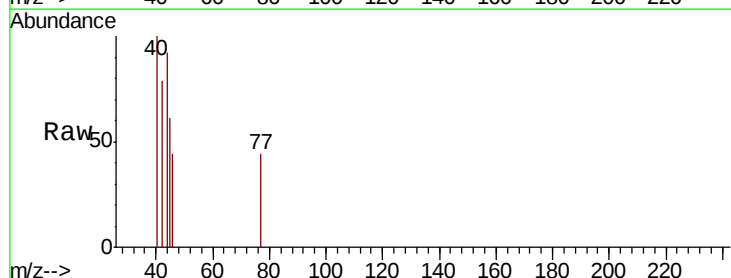
Tgt Ion: 42 Resp: 111

Ion Ratio Lower Upper

42 100

72 0.0 29.8 44.6#

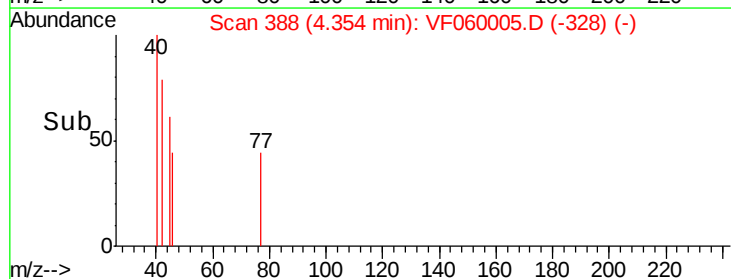
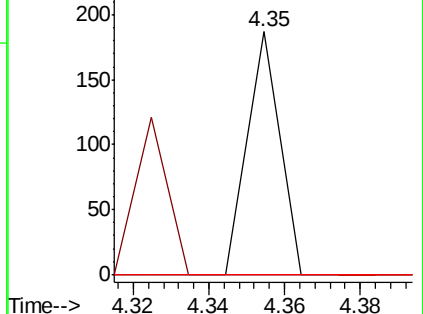
71 0.0 29.0 43.4#

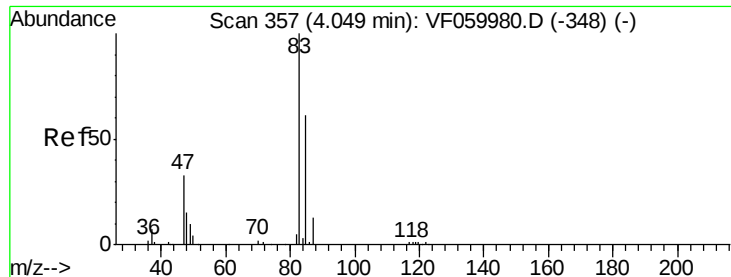


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#30

Chloroform

Concen: 6.26 ug/l

RT: 4.01 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

Instrument :

MSVOA_F

ClientSampleId :

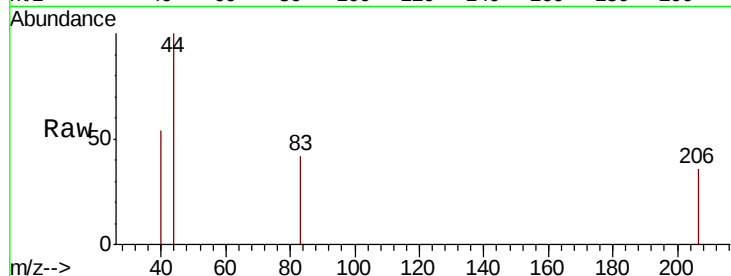
OR-03-081718-A

Tot Ion: 83 Resp: 73

Ion Ratio Lower Upper

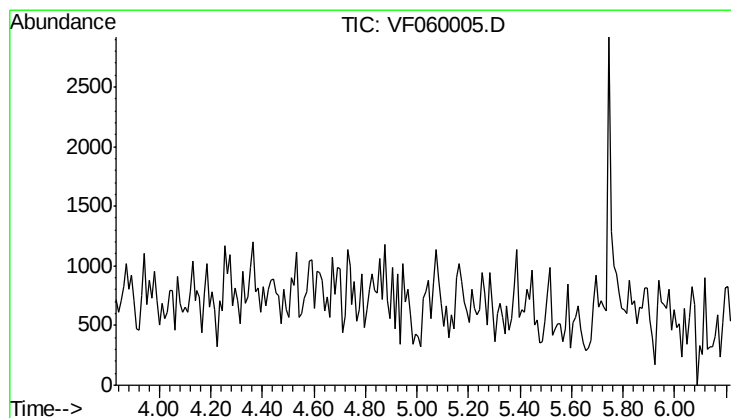
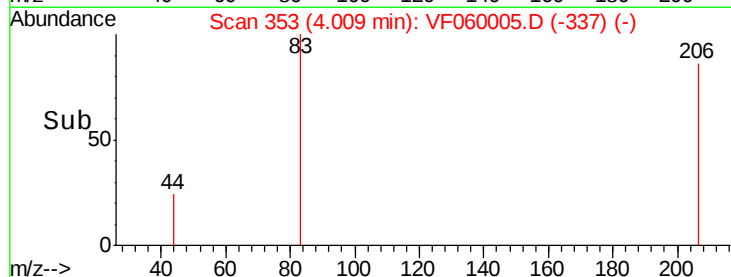
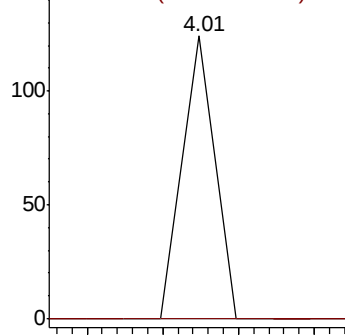
83 100

85 0.0 48.8 73.2#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 0.00 ug/l

Expected RT: 5.03 min

Lab File: VF060005.D

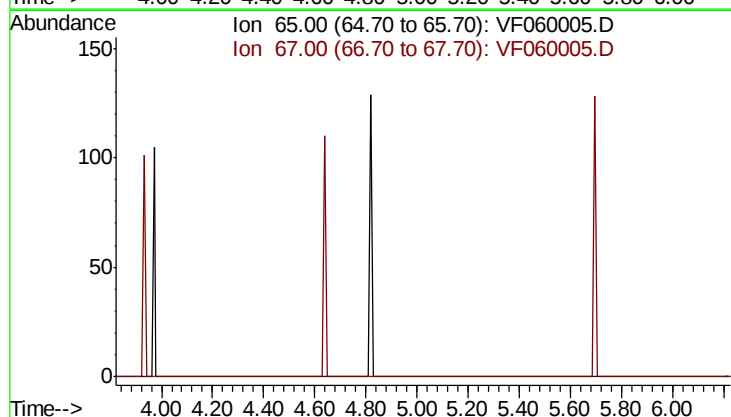
Acq: 20 Aug 2018 16:37

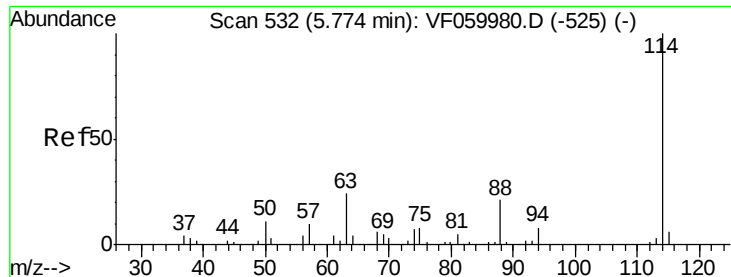
Tgt Ion: 65

Sig Exp Ratio

65 100

67 41.3

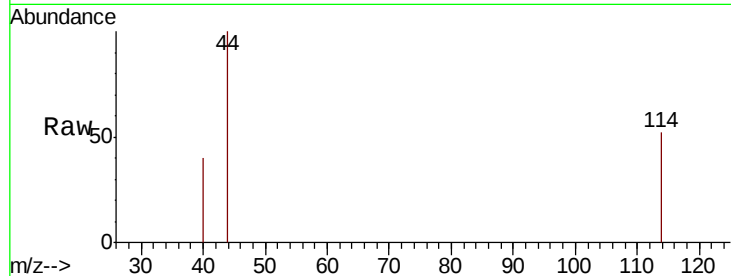




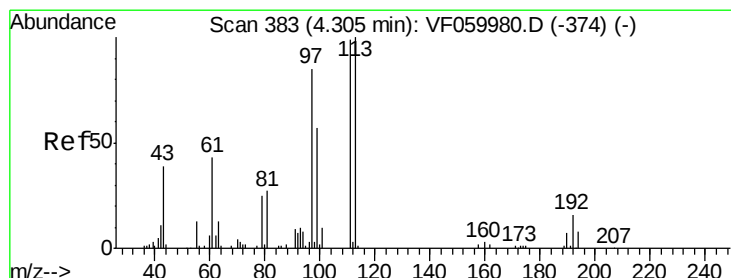
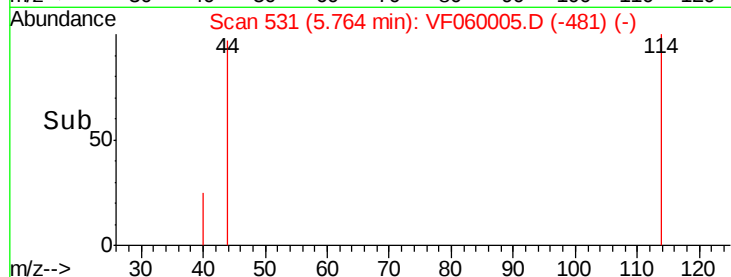
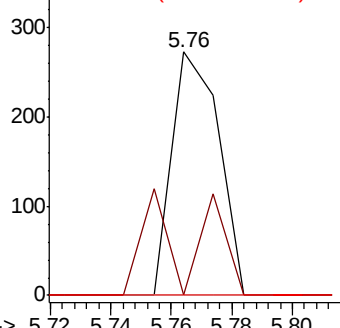
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.01 min
 Lab File: VF060005.D
 Acq: 20 Aug 2018 16:37

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-081718-A

Tot Ion:114	Resp:	295
Ion	Ratio	Lower Upper
114	100	
63	0.0	0.0 48.6
88	0.0	0.0 42.8

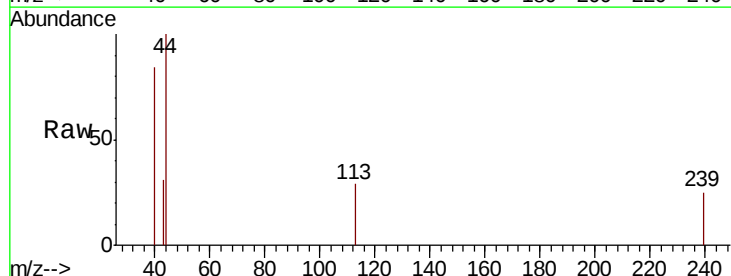


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

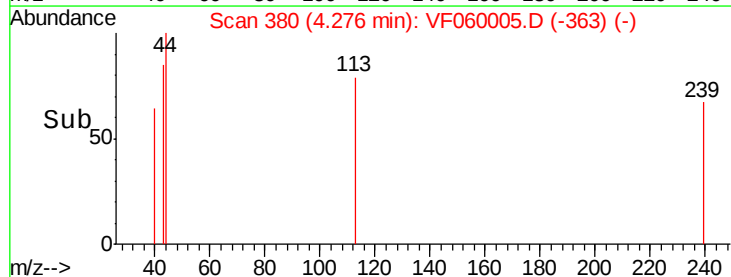
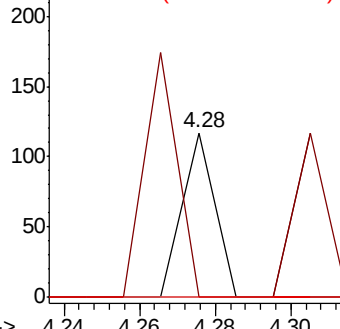


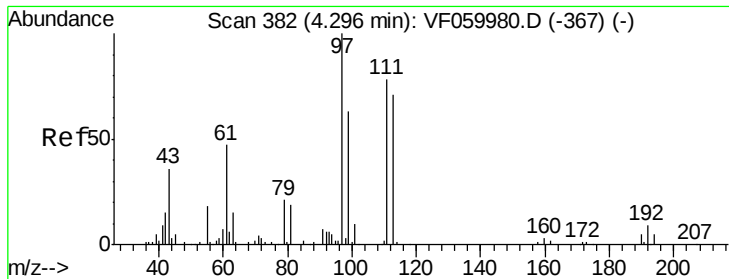
#35
 Dibromofluoromethane
 Concen: 22.89 ug/l
 RT: 4.28 min Scan# 380
 Delta R.T. -0.03 min
 Lab File: VF060005.D
 Acq: 20 Aug 2018 16:37

Tgt Ion:113	Resp:	69
Ion	Ratio	Lower Upper
113	100	
111	0.0	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

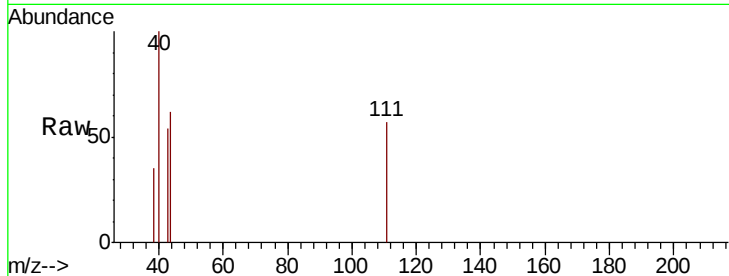




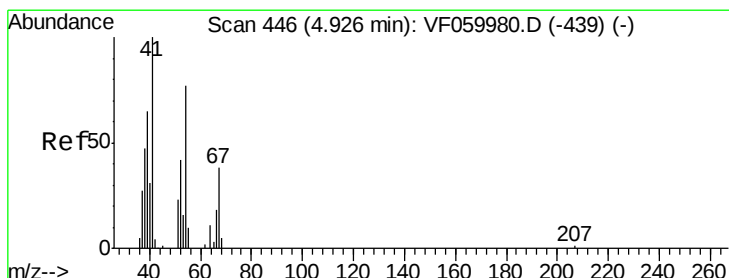
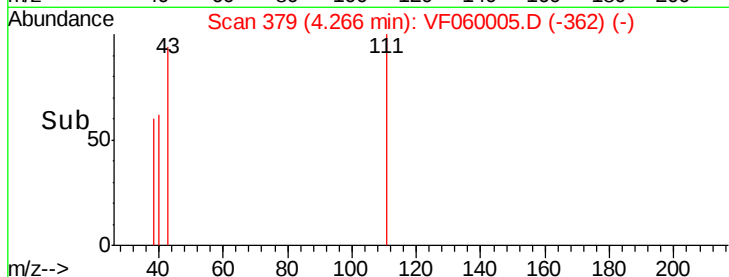
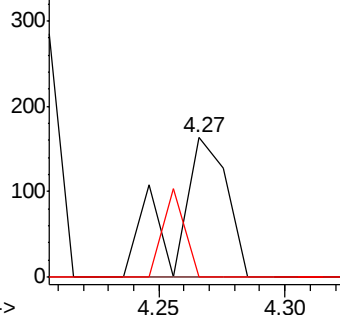
#37
Ethyl Acetate
Concen: 126.54 ug/l
RT: 4.27 min Scan# 379
Delta R.T. -0.03 min
Lab File: VF060005.D
Acq: 20 Aug 2018 16:37

Instrument :
MSVOA_F
ClientSampleId :
OR-03-081718-A

Tot Ion: 43 Resp: 235
Ion Ratio Lower Upper
43 100
61 0.0 104.5 156.7#
70 0.0 5.9 8.9#

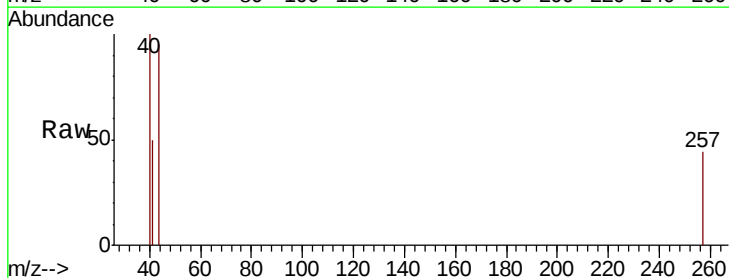


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

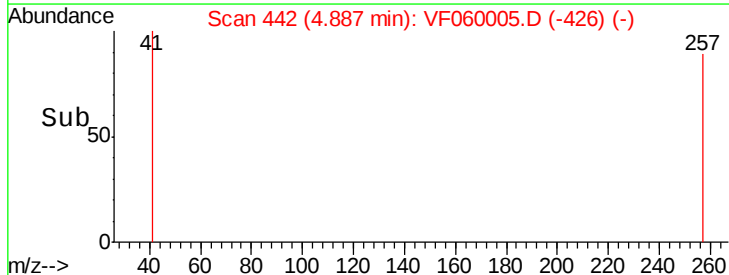
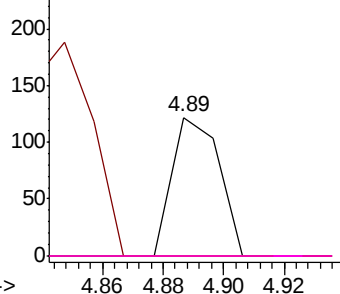


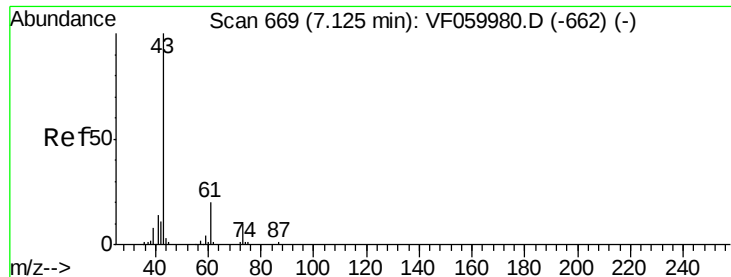
#41
Methacrylonitrile
Concen: 150.70 ug/l
RT: 4.89 min Scan# 442
Delta R.T. -0.04 min
Lab File: VF060005.D
Acq: 20 Aug 2018 16:37

Tgt Ion: 41 Resp: 134
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#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0





#43

Isopropyl Acetate

Concen: 38.16 ug/l

RT: 7.18 min Scan# 675

Delta R.T. 0.06 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

Instrument :

MSVOA_F

ClientSampleId :

OR-03-081718-A

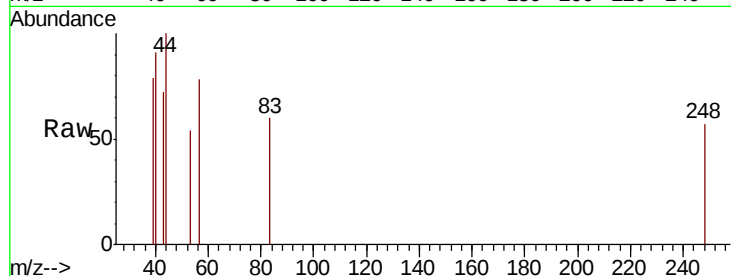
Tot Ion: 43 Resp: 78

Ion Ratio Lower Upper

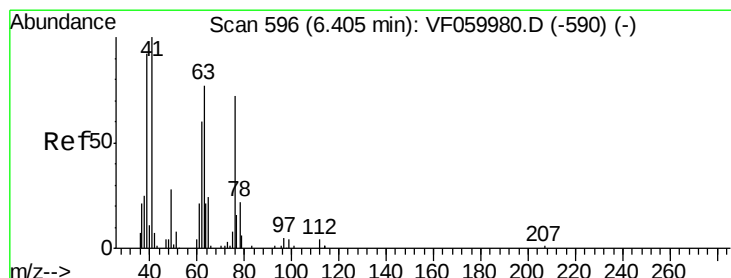
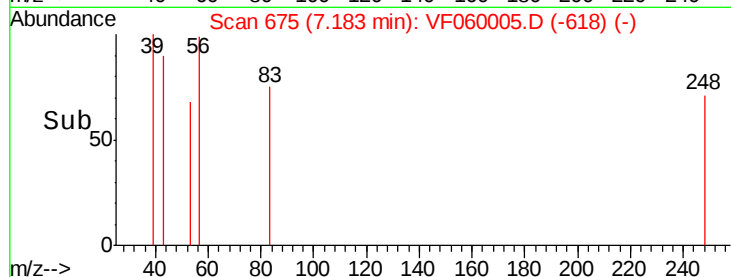
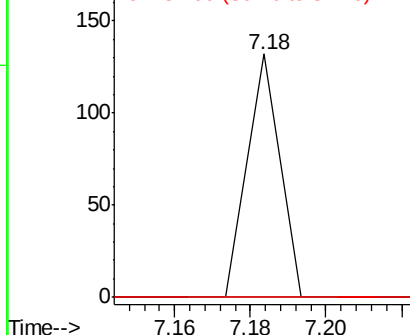
43 100

61 0.0 15.8 23.8#

87 0.0 0.6 0.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0



#45

1,2-Dichloropropane

Concen: 37.49 ug/l

RT: 6.43 min Scan# 599

Delta R.T. 0.03 min

Lab File: VF060005.D

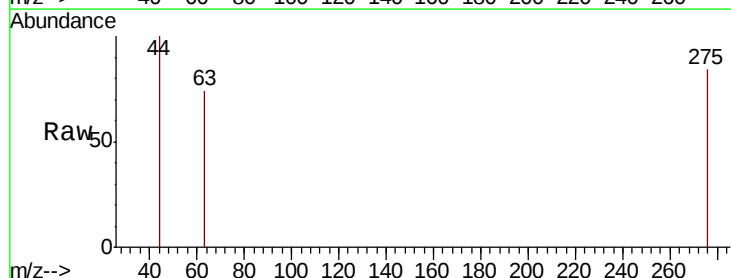
Acq: 20 Aug 2018 16:37

Tgt Ion: 63 Resp: 61

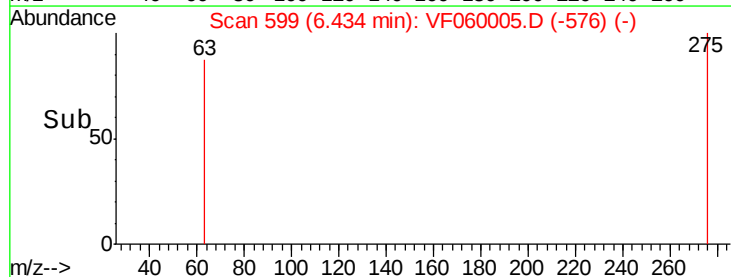
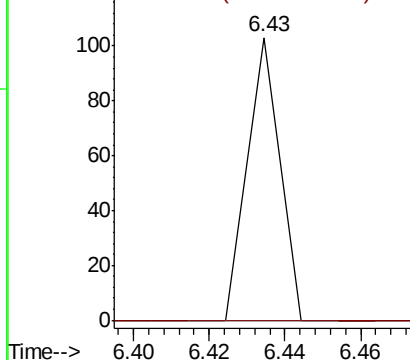
Ion Ratio Lower Upper

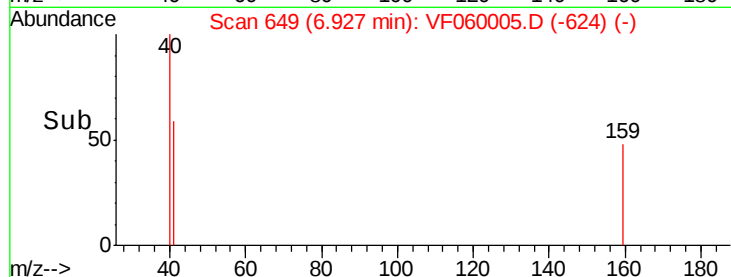
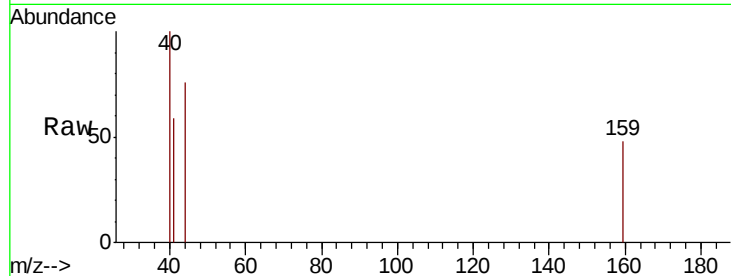
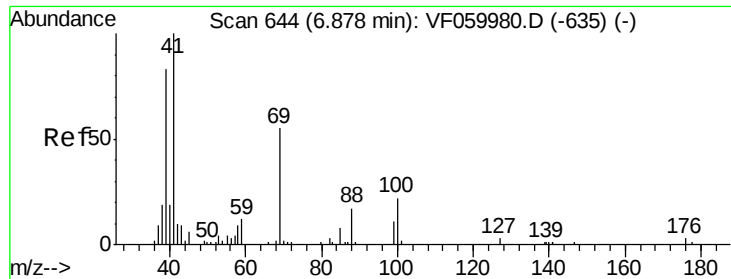
63 100

65 0.0 25.0 37.6#



Abundance Ion 63.00 (62.70 to 63.70): VF0
Ion 65.00 (64.70 to 65.70): VF0

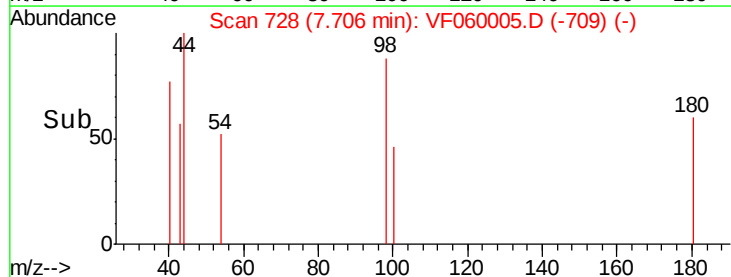
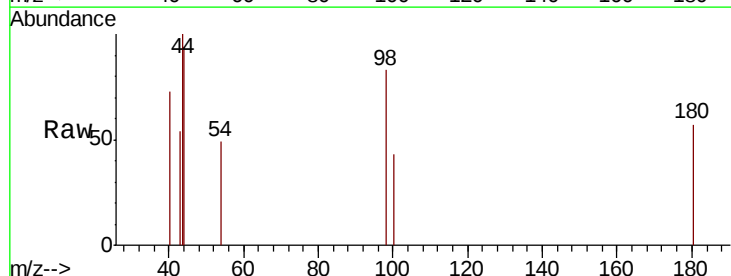
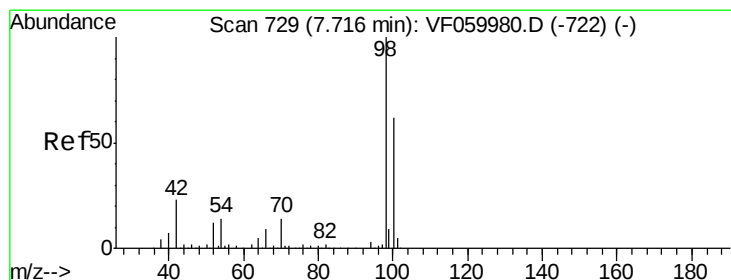
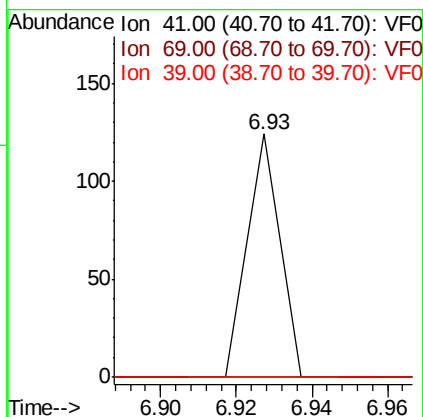




#48
Methvl methacrylate
Concen: 47.98 ug/l
RT: 6.93 min Scan# 649
Delta R.T. 0.05 min
Lab File: VF060005.D
Acq: 20 Aug 2018 16:37

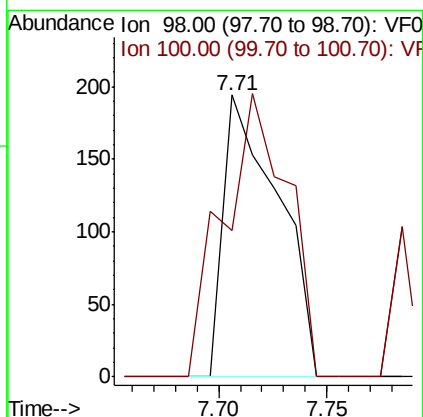
Instrument :
MSVOA_F
ClientSampleId :
OR-03-081718-A

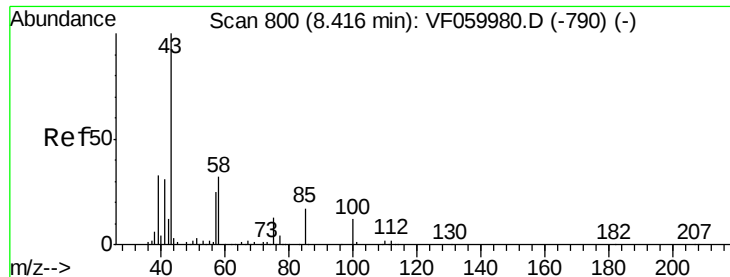
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	44.4	66.6#
39	0.0	67.8	101.6#



#50
Toluene-d8
Concen: 51.31 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF060005.D
Acq: 20 Aug 2018 16:37

Tgt Ion	Ratio	Lower	Upper
98	100		
100	52.1	49.8	74.8





#51

4-Methyl-2-Pentanone

Concen: 31.95 ug/l

RT: 8.52 min Scan# 811

Delta R.T. 0.11 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

Instrument :

MSVOA_F

ClientSampleId :

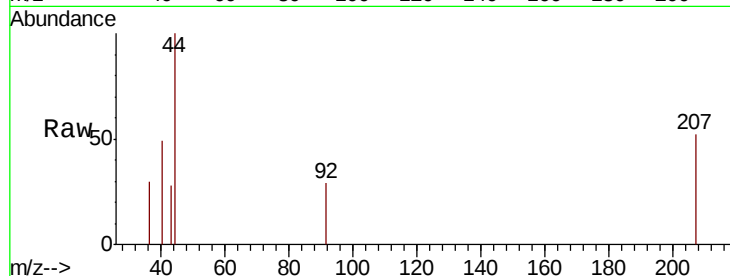
OR-03-081718-A

Tot Ion: 43 Resp: 61

Ion Ratio Lower Upper

43 100

58 0.0 25.6 38.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.52

100

80

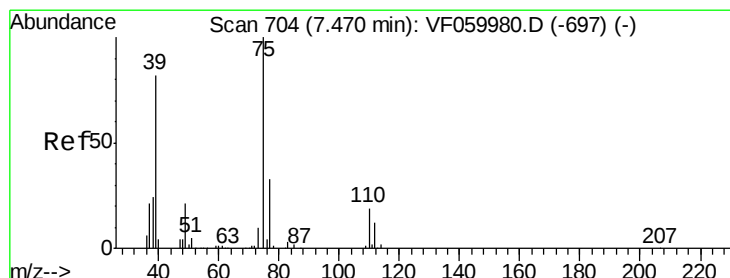
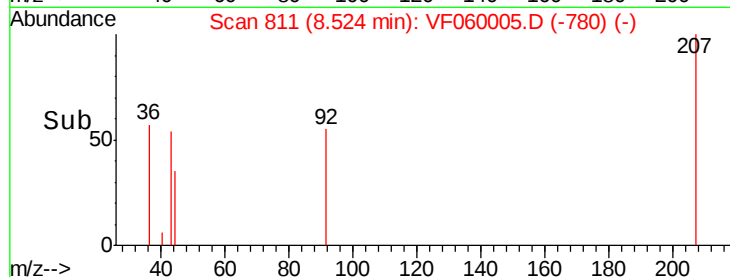
60

40

20

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 18.14 ug/l

RT: 7.54 min Scan# 711

Delta R.T. 0.07 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

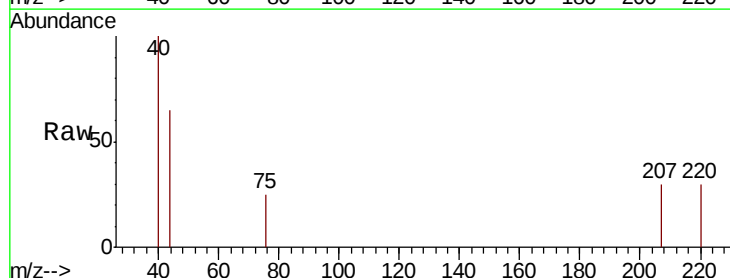
Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

77 0.0 26.0 39.0#

39 0.0 65.3 97.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

150

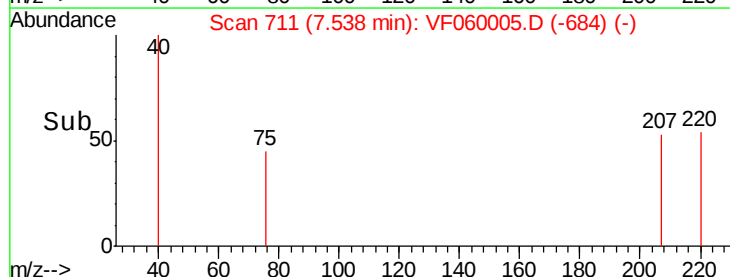
100

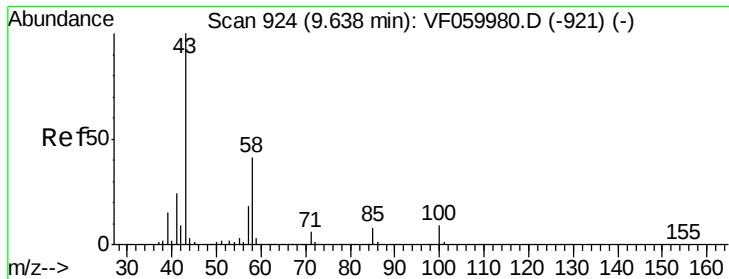
75

50

0

Time-->





#59

2-Hexanone

Concen: 49.47 ug/l

RT: 9.69 min Scan# 929

Delta R.T. 0.05 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

Instrument :

MSVOA_F

ClientSampleId :

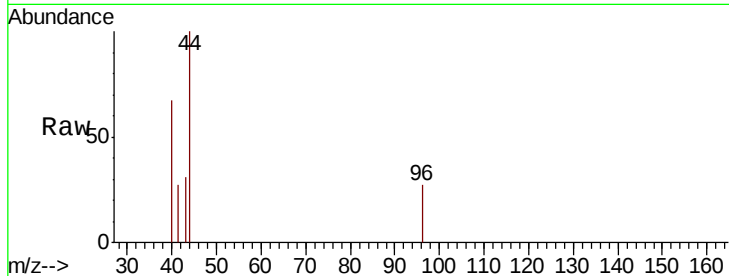
OR-03-081718-A

Tot Ion: 43 Resp: 78

Ion Ratio Lower Upper

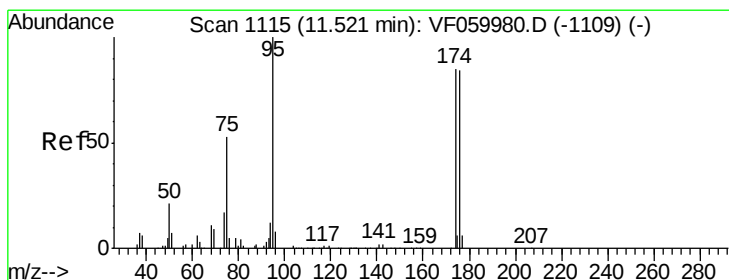
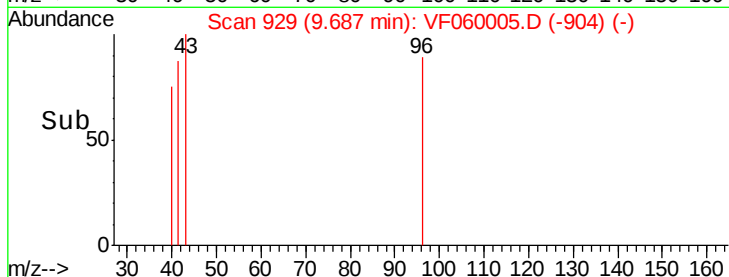
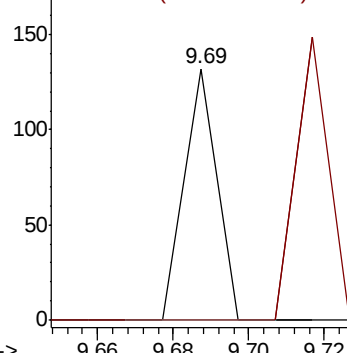
43 100

58 0.0 20.1 60.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 19.93 ug/l

RT: 11.52 min Scan# 1115

Delta R.T. -0.00 min

Lab File: VF060005.D

Acq: 20 Aug 2018 16:37

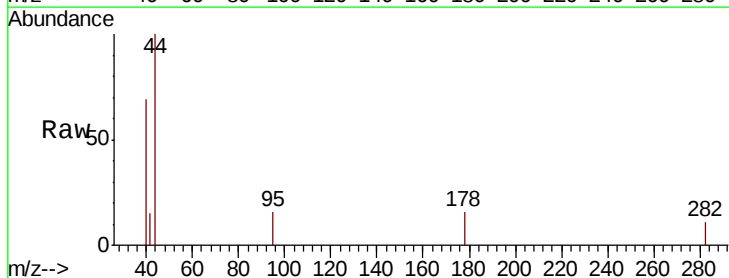
Tgt Ion: 95 Resp: 82

Ion Ratio Lower Upper

95 100

174 0.0 0.0 169.8

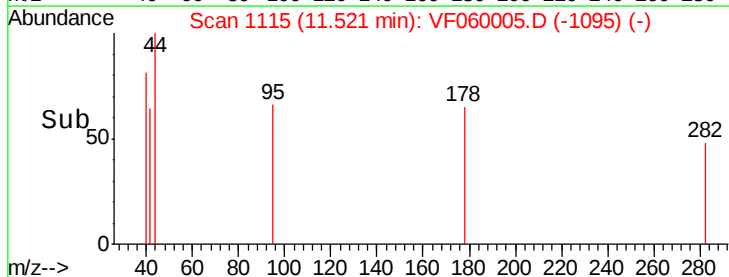
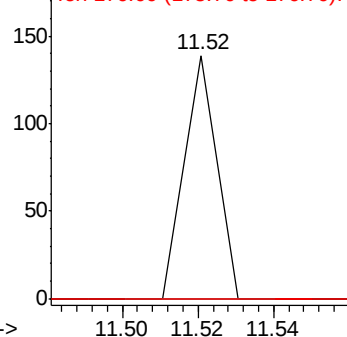
176 0.0 0.0 167.8

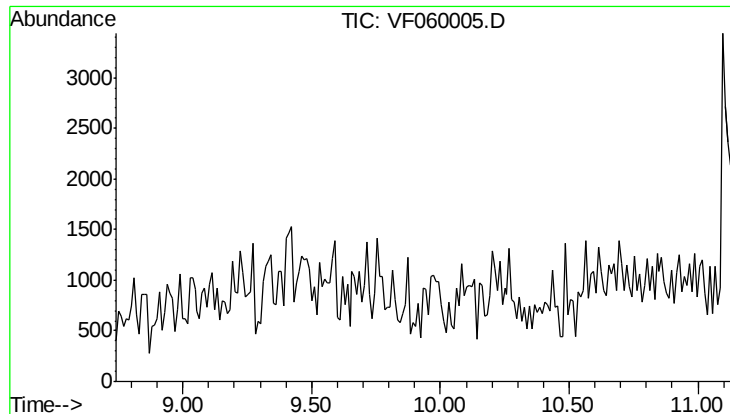


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

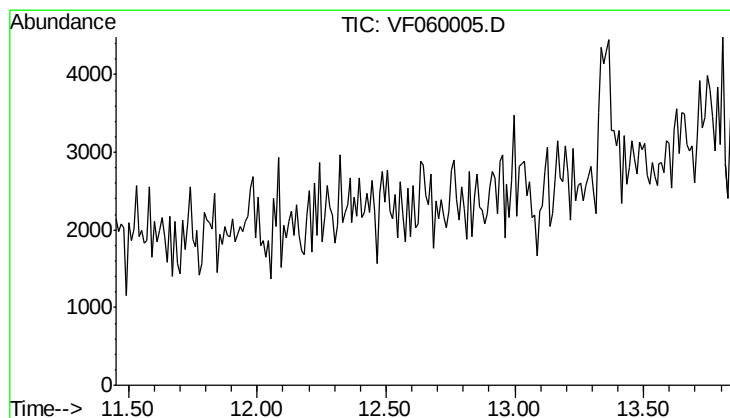
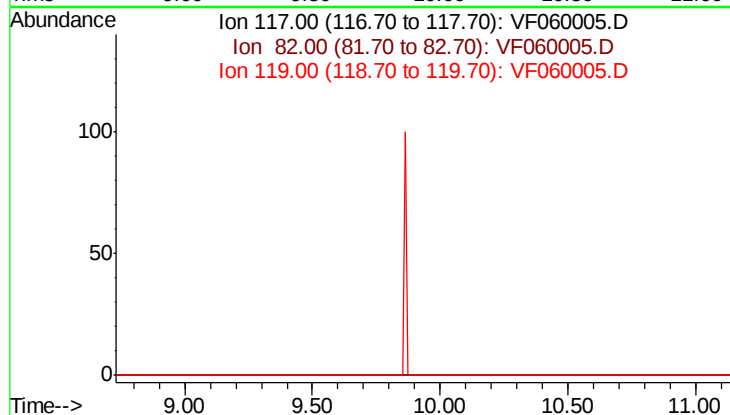




#63
 Chlorobenzene-d5
 Concen: 0.00 ug/l
 Expected RT: 9.93 min
 Lab File: VF060005.D
 Acq: 20 Aug 2018 16:37

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-081718-A

Tot Ion: 117
 Sig Exp Ratio
 117 100
 82 59.0
 119 32.6



#72
 1,4-Dichlorobenzene-d4
 Concen: 0.00 ug/l
 Expected RT: 12.64 min
 Lab File: VF060005.D
 Acq: 20 Aug 2018 16:37

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

