

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110818\
 Data File : VF060653.D
 Acq On : 8 Nov 2018 16:51
 Operator : VA/AP
 Sample : J5762-01
 Misc : 5.15µ/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BU-01-110518

Quant Time: Nov 09 12:33:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.87
34) 1,4-Difluorobenzene	5.17	114	67	50.00	ug/l	-0.43
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.78
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.55

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.99	65	133	0.00	ug/l	0.14
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	3.77	113	76	146.82	ug/l	-0.33
Spiked Amount	50.000		Recovery	=	293.64%	
50) Toluene-d8	7.07	98	75	48.91	ug/l	-0.49
Spiked Amount	50.000		Recovery	=	97.82%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

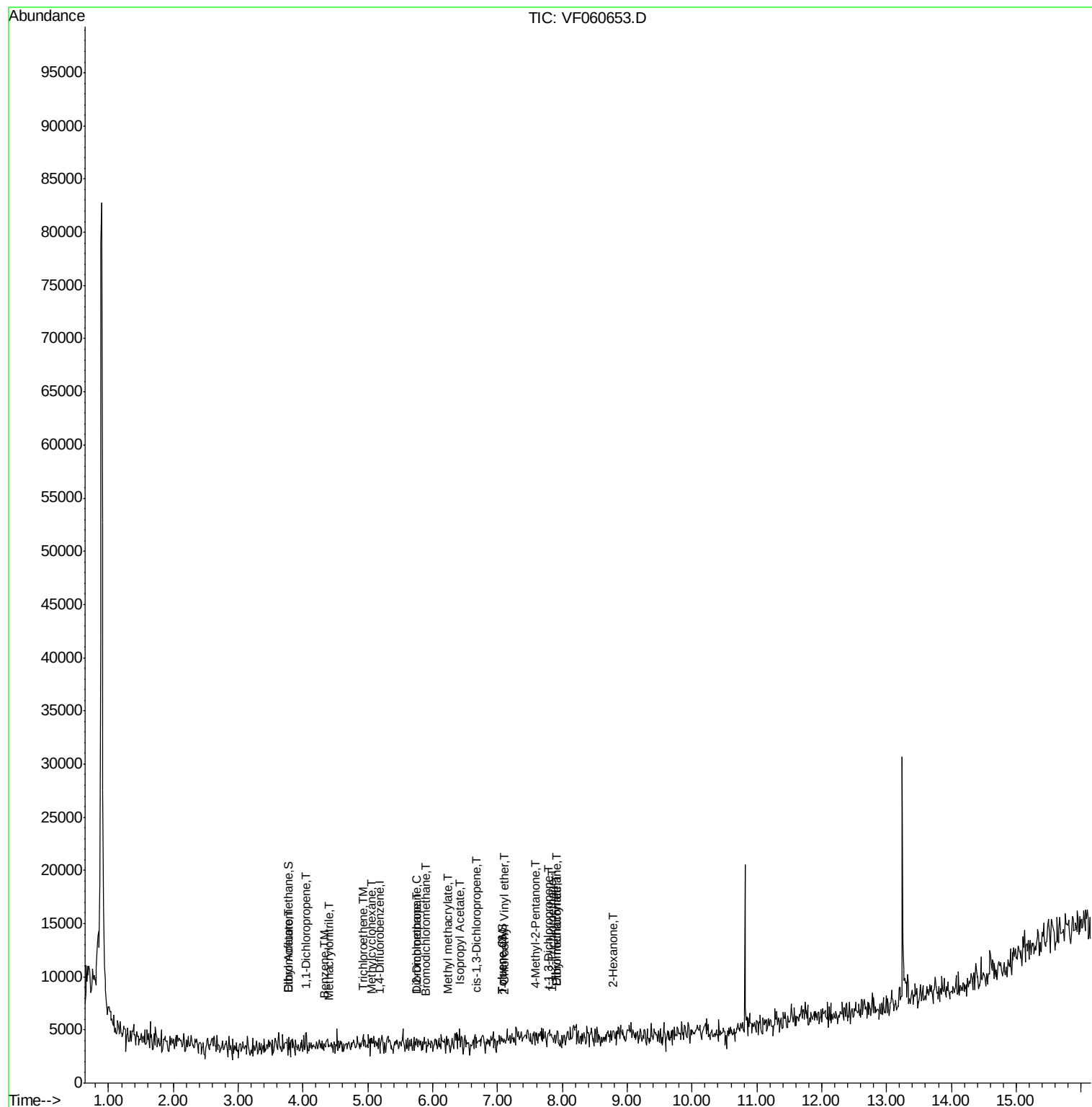
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
36) 1,1-Dichloropropene	4.03	75	64	86.754	ug/l #	1
37) Ethyl Acetate	3.77	43	342	965.747	ug/l #	17
39) Methylcyclohexane	5.04	83	70	77.755	ug/l #	53
40) Benzene	4.34	78	72	40.208	ug/l #	51
41) Methacrylonitrile	4.41	41	265	1321.382	ug/l #	43
43) Isopropyl Acetate	6.43	43	690	1540.364	ug/l #	45
44) Trichloroethene	4.94	130	66	122.637	ug/l	2
45) 1,2-Dichloropropane	5.76	63	62	135.378	ug/l #	43
46) Dibromomethane	5.75	93	75	258.136	ug/l #	3
47) Bromodichloromethane	5.89	83	66	94.178	ug/l #	25
48) Methyl methacrylate	6.23	41	340	1207.692	ug/l #	62
51) 4-Methyl-2-Pentanone	7.60	43	664	2204.307	ug/l #	37
52) Toluene	7.08	92	70	60.010	ug/l #	1
53) t-1,3-Dichloropropene	7.77	75	73	119.852	ug/l #	43
54) cis-1,3-Dichloropropene	6.67	75	62	80.566	ug/l #	1
55) 1,1,2-Trichloroethane	7.85	97	91	268.088	ug/l #	14
56) Ethyl methacrylate	7.93	69	72	164.864	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.11	63	75	2906.519	ug/l	100
59) 2-Hexanone	8.77	43	214	1166.794	ug/l #	26
60) Dibromochloromethane	7.91	129	66	139.029	ug/l #	12

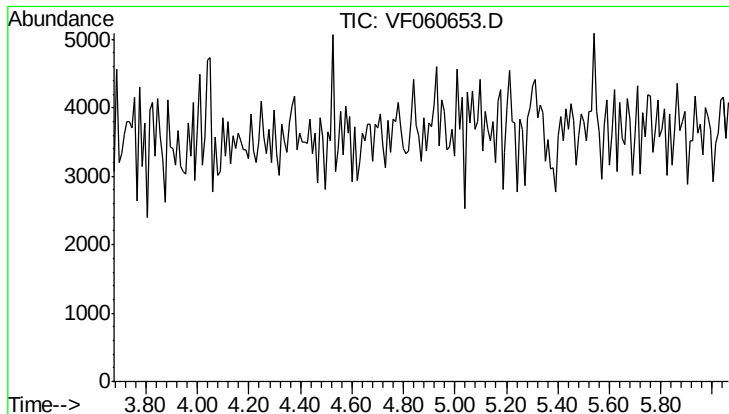
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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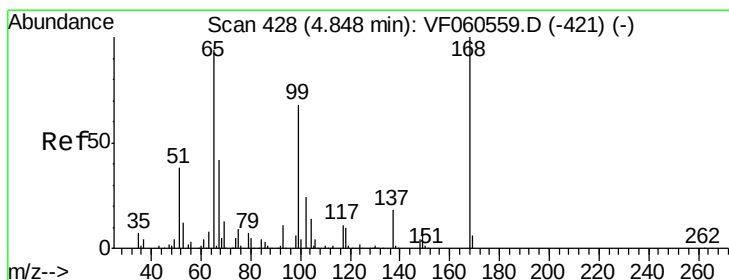
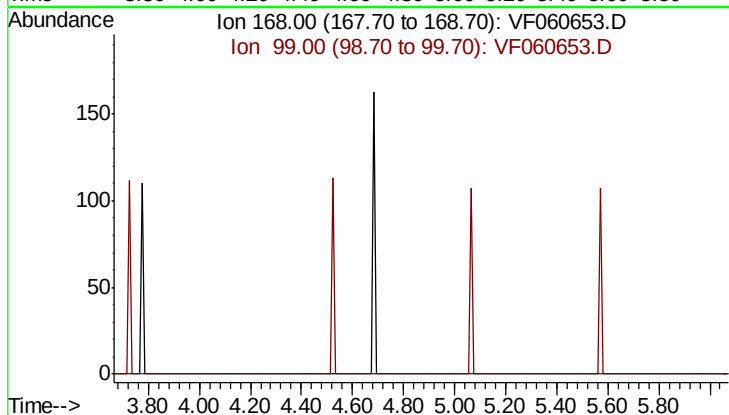




#1
 Pentafluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 4.87 min
 Lab File: VF060653.D
 Acq: 8 Nov 2018 16:51

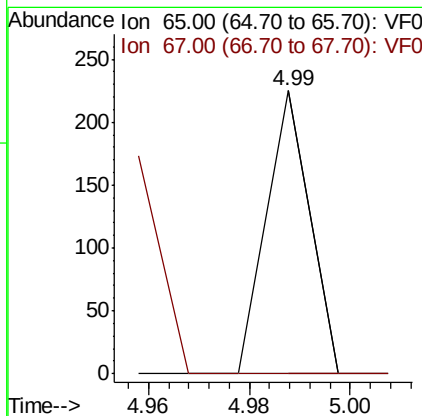
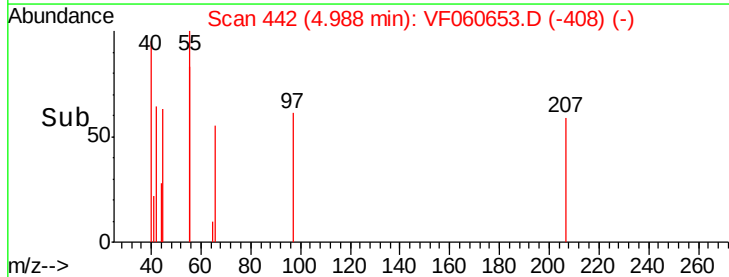
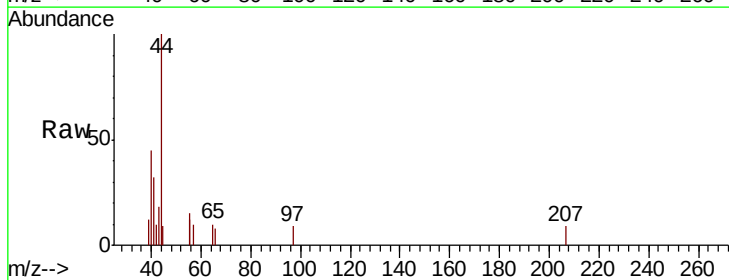
Instrument :
 MSVOA_F
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 BU-01-110518

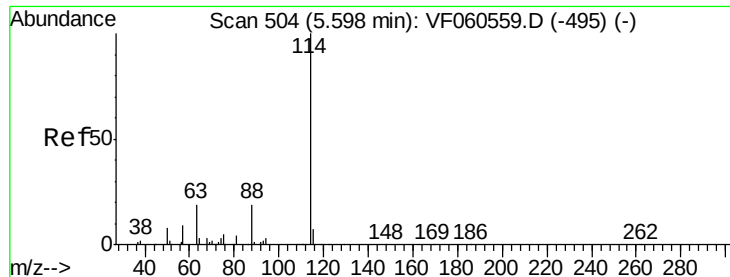
Tot Ion: 168
 Sig Exp Ratio
 168 100
 99 60.7



#33
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 RT: 4.99 min Scan# 442
 Delta R.T. 0.14 min
 Lab File: VF060653.D
 Acq: 8 Nov 2018 16:51

Tgt Ion: 65 Resp: 133
 Ion Ratio Lower Upper
 65 100
 67 0.0 0.0 101.8

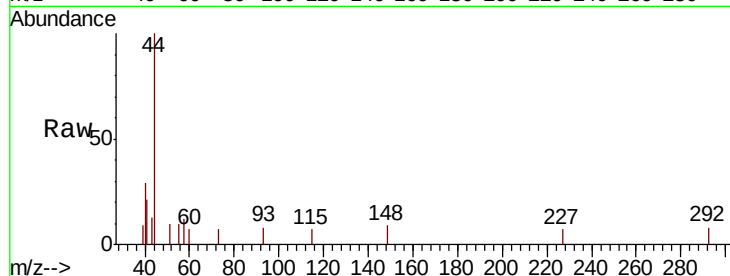




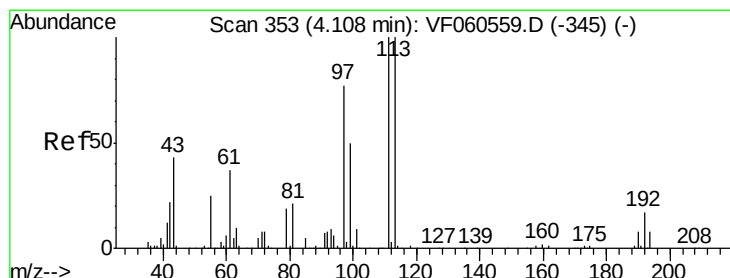
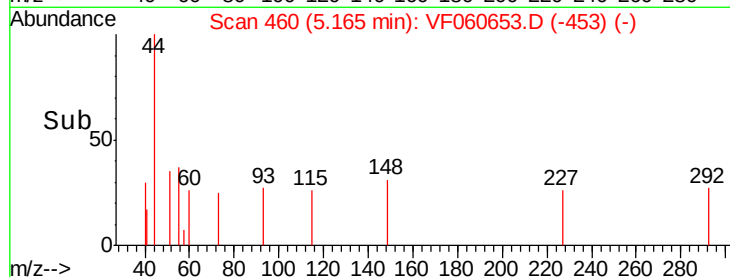
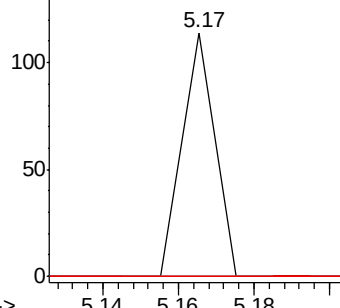
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.17 min Scan# 460
Delta R.T. -0.43 min
Lab File: VF060653.D
Acq: 8 Nov 2018 16:51

Instrument :
MSVOA_F
ClientSampleId :
BU-01-110518

Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	39.0
88	0.0	0.0	38.2

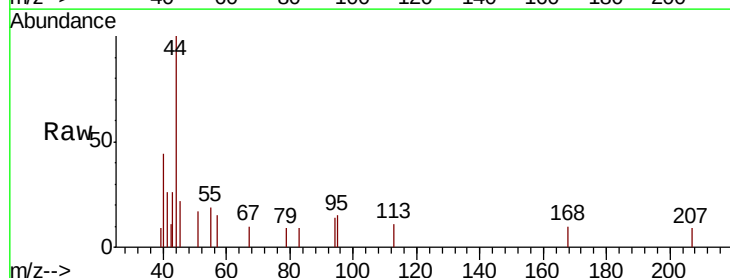


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

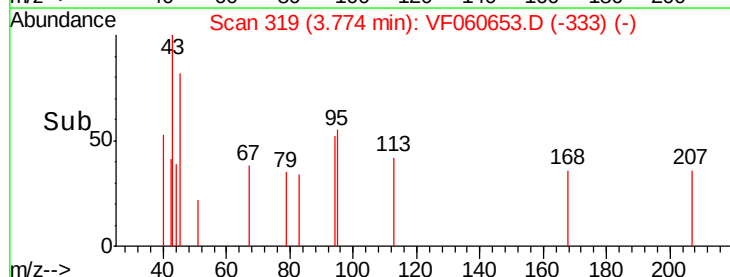
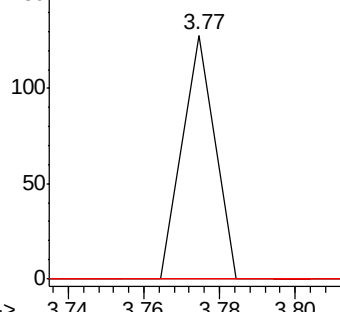


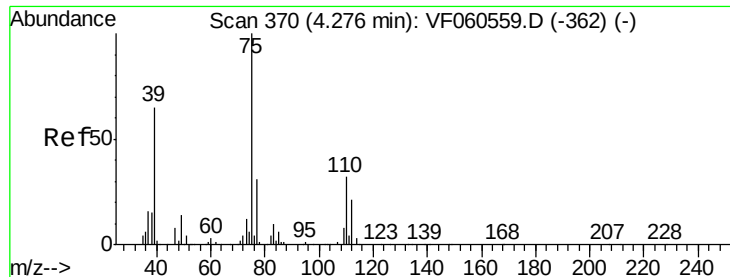
#35
Dibromofluoromethane
Concen: 146.820 ug/l
RT: 3.77 min Scan# 319
Delta R.T. -0.33 min
Lab File: VF060653.D
Acq: 8 Nov 2018 16:51

Tgt Ion	Ratio	Lower	Upper
113	100		
111	0.0	79.9	119.9#
192	0.0	13.3	19.9#



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





#36

1,1-Dichloropropene

Concen: 86.754 ug/l

RT: 4.03 min Scan# 345

Delta R.T. -0.25 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

Instrument :

MSVOA_F

ClientSampleId :

BU-01-110518

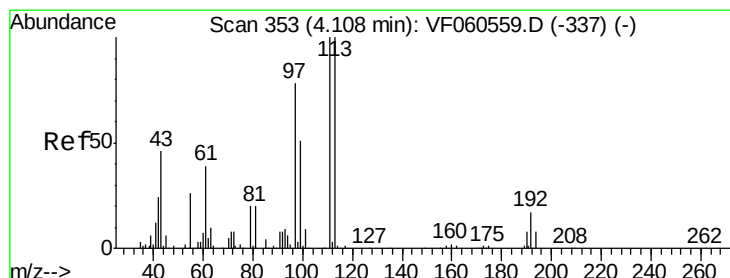
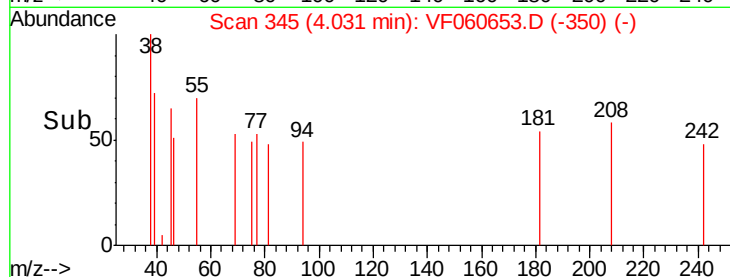
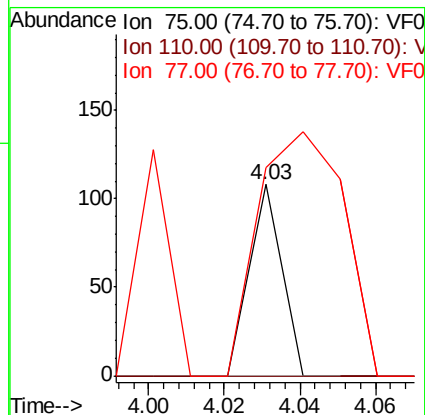
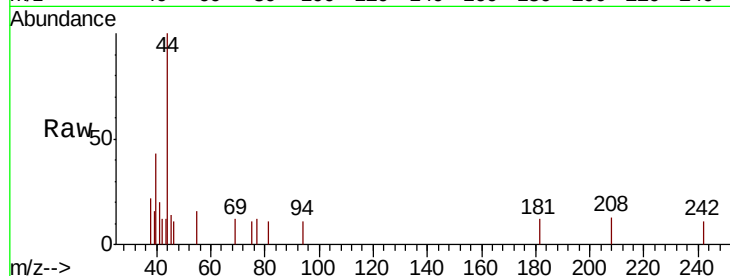
Tot Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

110 0.0 16.2 48.6#

77 109.3 25.0 37.6#



#37

Ethyl Acetate

Concen: 965.747 ug/l

RT: 3.77 min Scan# 319

Delta R.T. -0.33 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

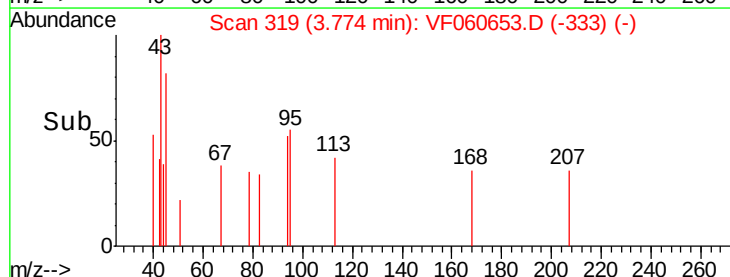
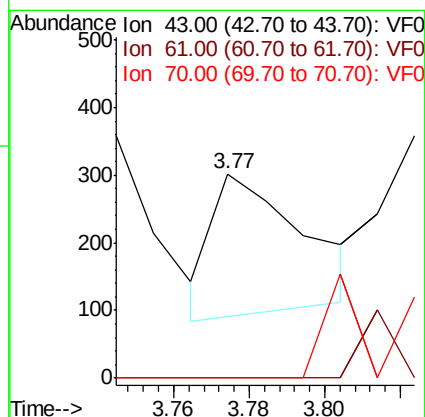
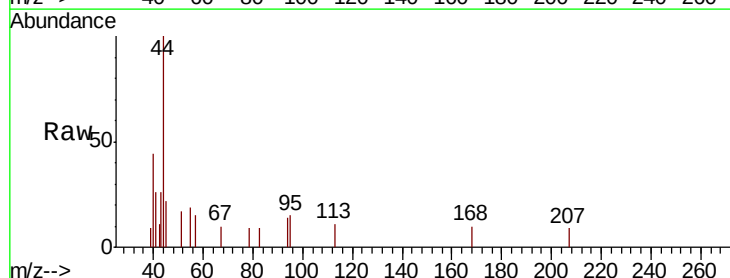
Tgt Ion: 43 Resp: 342

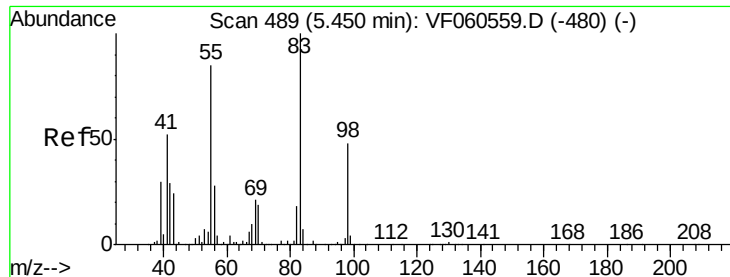
Ion Ratio Lower Upper

43 100

61 0.0 63.4 95.2#

70 0.0 9.3 13.9#

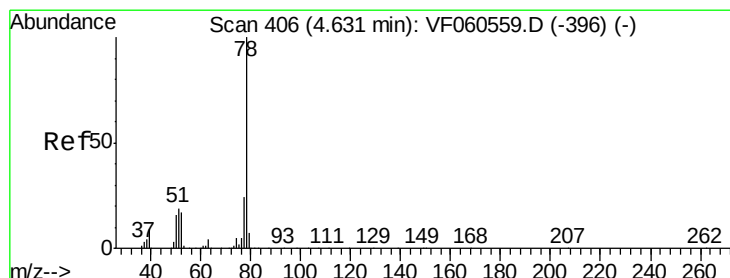
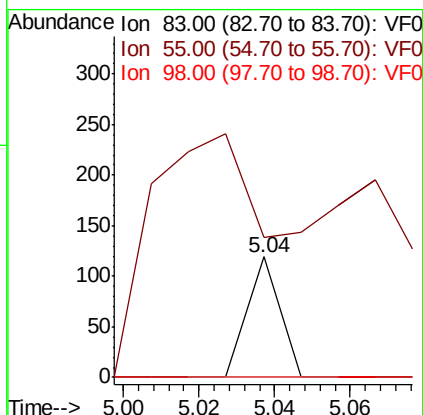
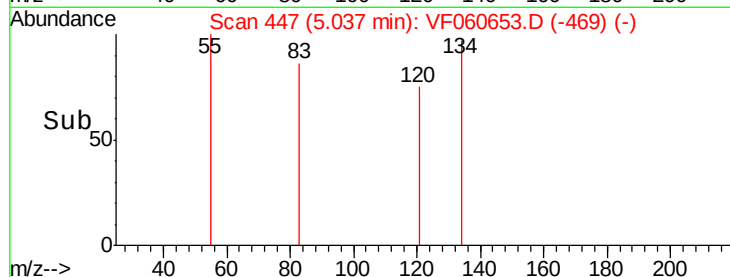
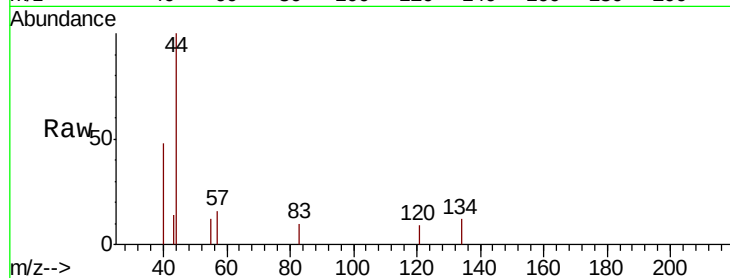




#39
Methylvlcyclohexane
Concen: 77.755 ug/l
RT: 5.04 min Scan# 447
Delta R.T. -0.41 min
Lab File: VF060653.D
Acq: 8 Nov 2018 16:51

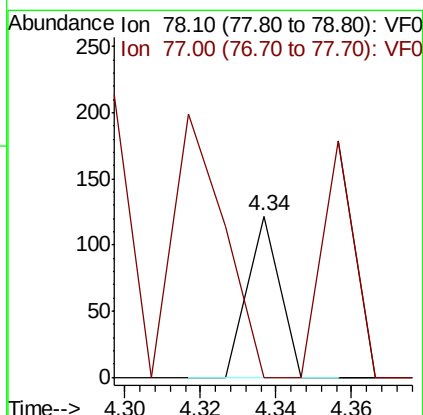
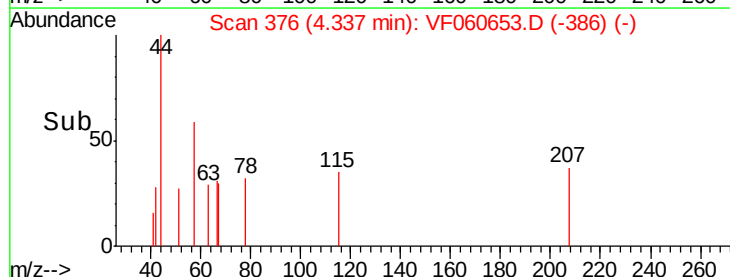
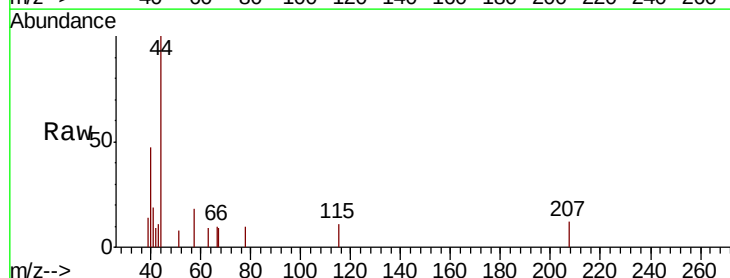
Instrument :
MSVOA_F
ClientSampleId :
BU-01-110518

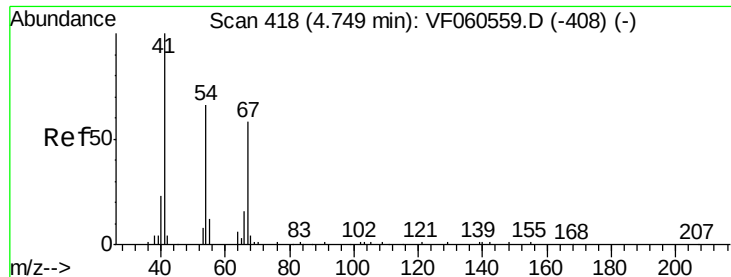
Tot Ion: 83 Resp: 70
Ion Ratio Lower Upper
83 100
55 116.8 69.1 103.7#
98 0.0 38.6 57.8#



#40
Benzene
Concen: 40.208 ug/l
RT: 4.34 min Scan# 376
Delta R.T. -0.29 min
Lab File: VF060653.D
Acq: 8 Nov 2018 16:51

Tgt Ion: 78 Resp: 72
Ion Ratio Lower Upper
78 100
77 0.0 19.3 28.9#





#41

Methacrylonitrile

Concen: 1321.382 ug/l

RT: 4.41 min Scan# 383

Delta R.T. -0.34 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

Instrument :

MSVOA_F

ClientSampleId :

BU-01-110518

Tot Ion: 41 Resp: 265

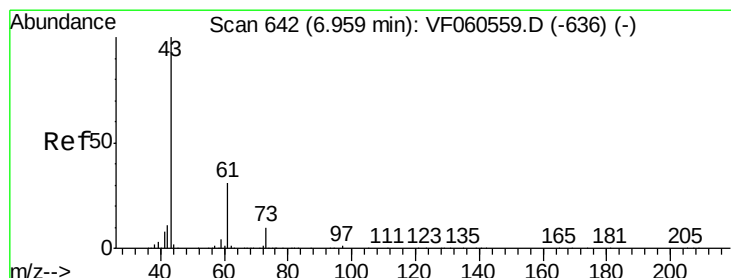
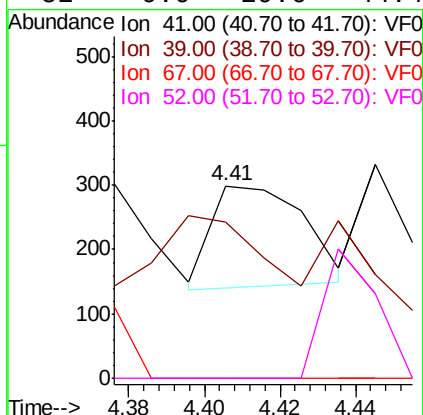
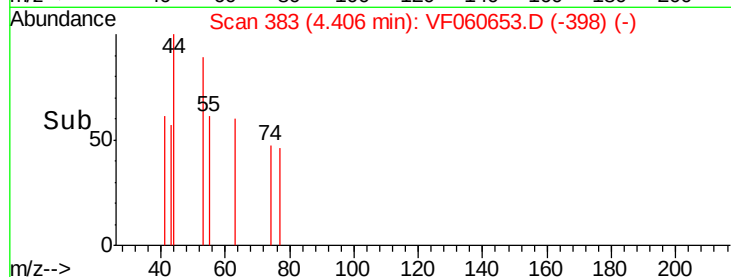
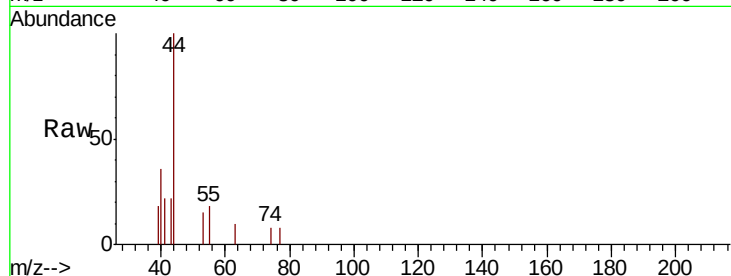
Ion Ratio Lower Upper

41 100

39 80.9 45.6 68.4#

67 0.0 45.3 67.9#

52 0.0 29.6 44.4#



#43

Isopropyl Acetate

Concen: 1540.364 ug/l

RT: 6.43 min Scan# 588

Delta R.T. -0.53 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

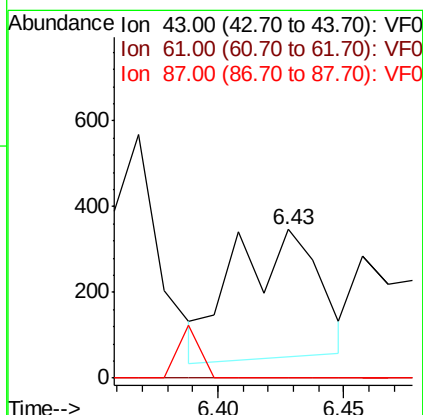
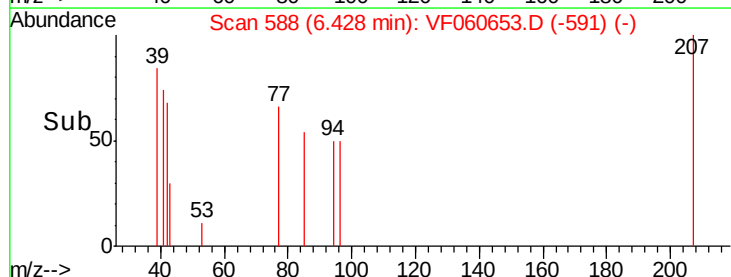
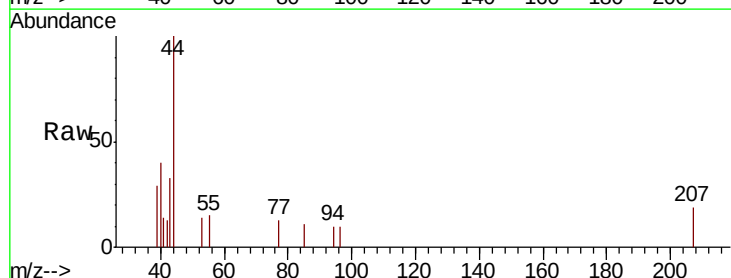
Tgt Ion: 43 Resp: 690

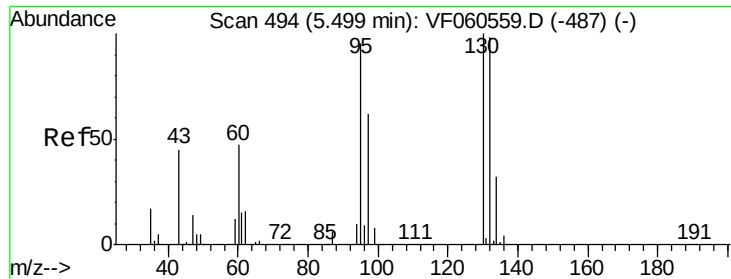
Ion Ratio Lower Upper

43 100

61 0.0 24.2 36.2#

87 0.0 0.2 0.4#





#44

Trichloroethene

Concen: 122.637 ug/l

RT: 4.94 min Scan# 437

Delta R.T. -0.56 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

Instrument :

MSVOA_F

ClientSampleId :

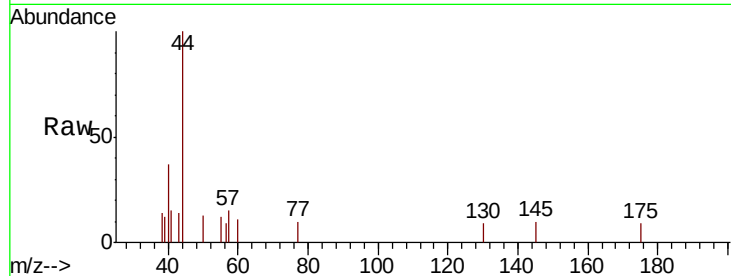
BU-01-110518

Tot Ion:130 Resp: 66

Ion Ratio Lower Upper

130 100

95 0.0 0.0 191.0



Abundance Ion 129.90 (129.60 to 130.60): VF0

Ion 94.90 (94.60 to 95.60): VF0

4.94

120

100

80

60

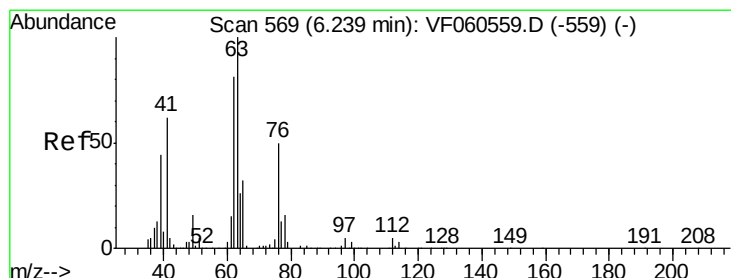
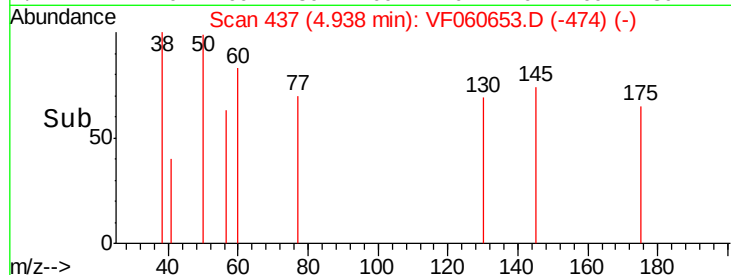
40

20

0

4.90 4.92 4.94 4.96

Time-->



#45

1,2-Dichloropropane

Concen: 135.378 ug/l

RT: 5.76 min Scan# 520

Delta R.T. -0.48 min

Lab File: VF060653.D

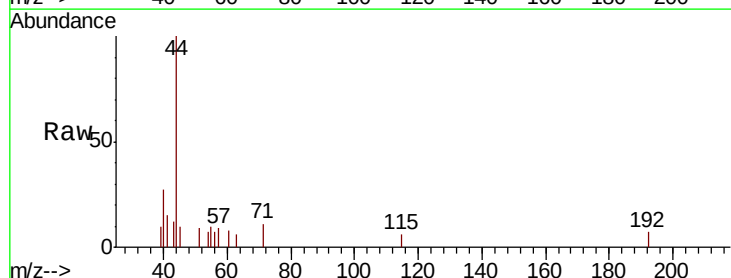
Acq: 8 Nov 2018 16:51

Tgt Ion: 63 Resp: 62

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

5.76

120

100

80

60

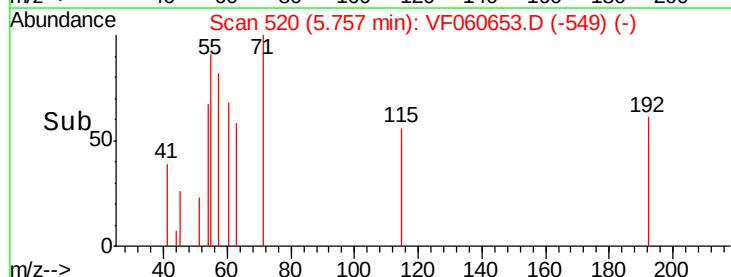
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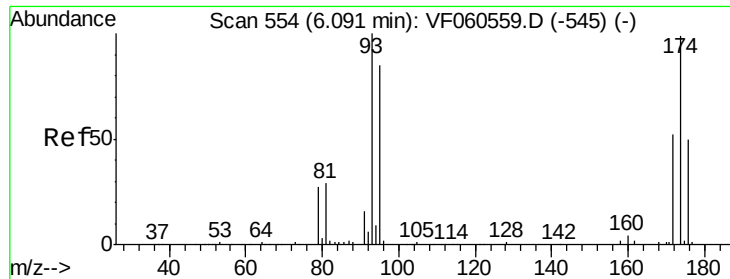
20

0

5.74 5.76

Time-->

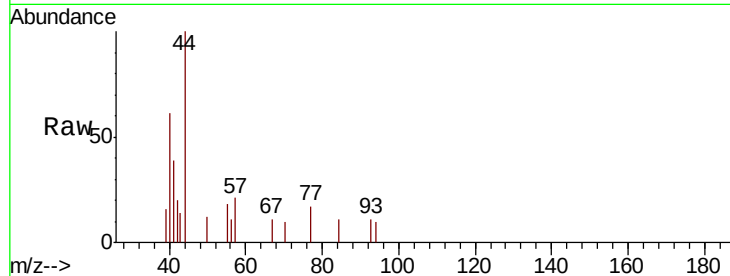




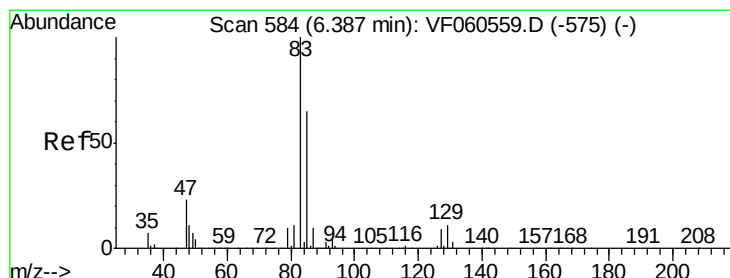
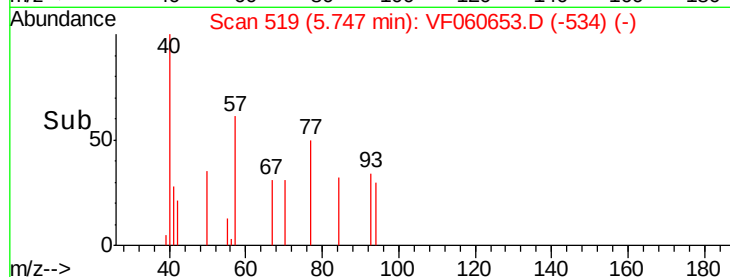
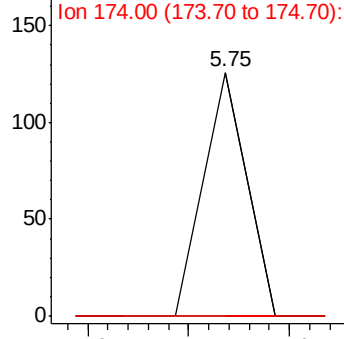
#46
Dibromomethane
Concen: 258.136 ug/l
RT: 5.75 min Scan# 519
Delta R.T. -0.34 min
Lab File: VF060653.D
Acq: 8 Nov 2018 16:51

Instrument :
MSVOA_F
ClientSampleId :
BU-01-110518

Tot Ion: 93 Resp: 75
Ion Ratio Lower Upper
93 100
95 0.0 68.6 102.8#
174 0.0 79.0 118.4#

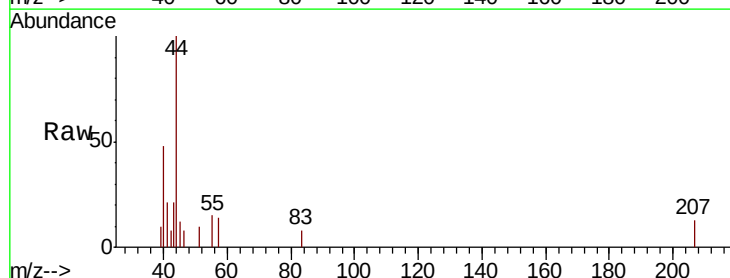


Abundance Ion 93.00 (92.70 to 93.70): VF0
Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V

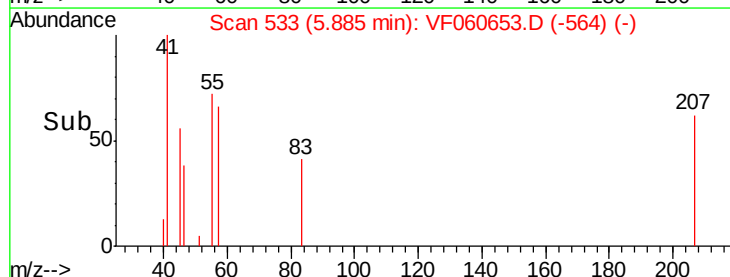
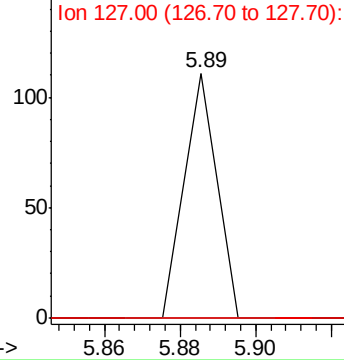


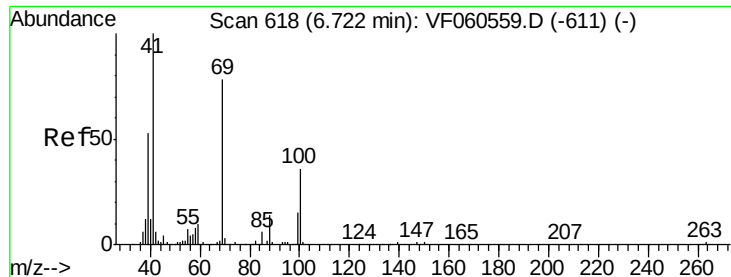
#47
Bromodichloromethane
Concen: 94.178 ug/l
RT: 5.89 min Scan# 533
Delta R.T. -0.50 min
Lab File: VF060653.D
Acq: 8 Nov 2018 16:51

Tgt Ion: 83 Resp: 66
Ion Ratio Lower Upper
83 100
85 0.0 51.8 77.6#
127 0.0 7.0 10.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V





#48

Methvl methacrylate

Concen: 1207.692 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.49 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

Instrument :

MSVOA_F

ClientSampleId :

BU-01-110518

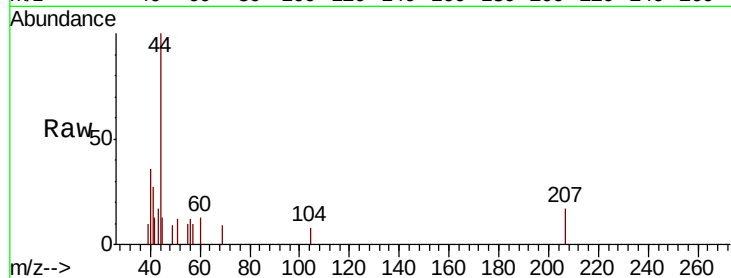
Tot Ion: 41 Resp: 340

Ion Ratio Lower Upper

41 100

69 32.9 61.1 91.7#

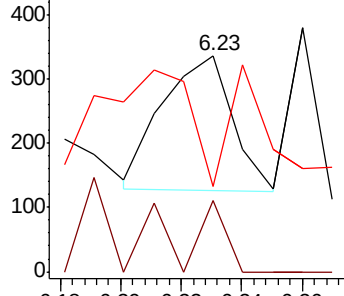
39 39.2 43.0 64.6#



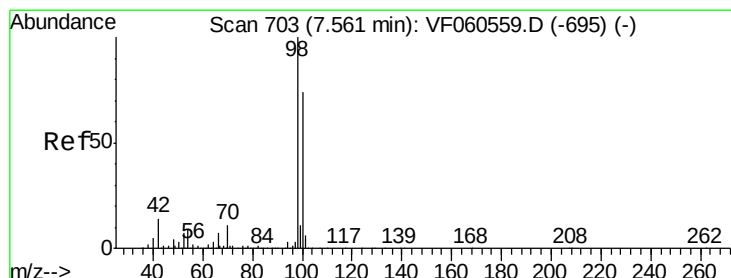
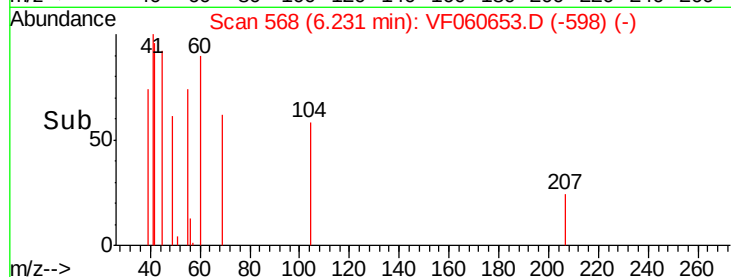
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->



#50

Toluene-d8

Concen: 48.911 ug/l

RT: 7.07 min Scan# 653

Delta R.T. -0.49 min

Lab File: VF060653.D

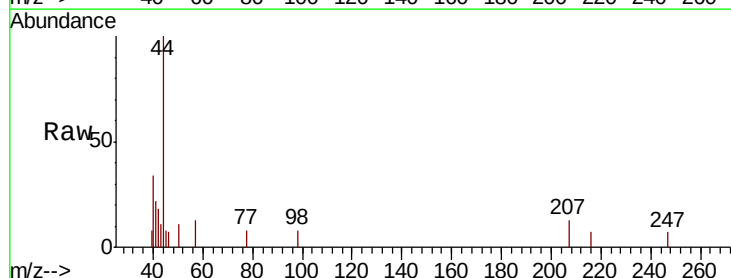
Acq: 8 Nov 2018 16:51

Tgt Ion: 98 Resp: 75

Ion Ratio Lower Upper

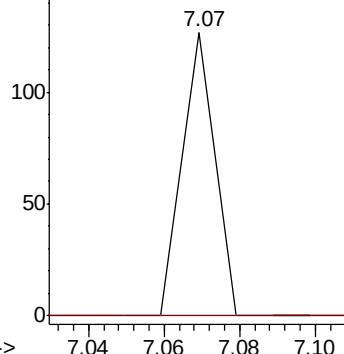
98 100

100 0.0 59.4 89.2#

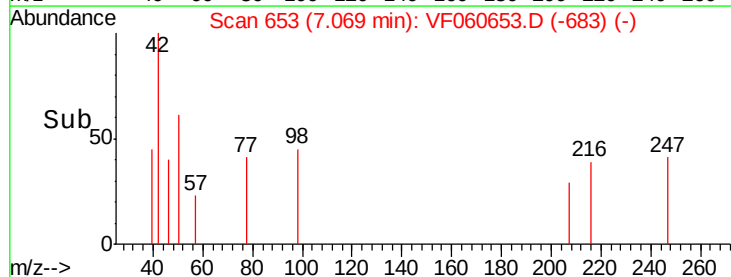


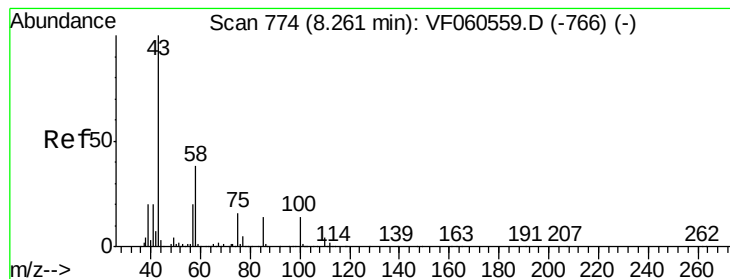
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 2204.307 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.66 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

Instrument :

MSVOA_F

ClientSampleId :

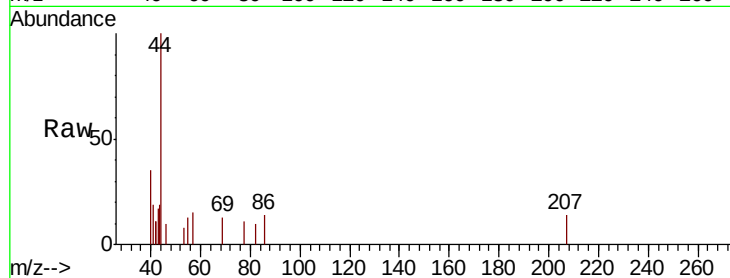
BU-01-110518

Tot Ion: 43 Resp: 664

Ion Ratio Lower Upper

43 100

58 0.0 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

7.60

400

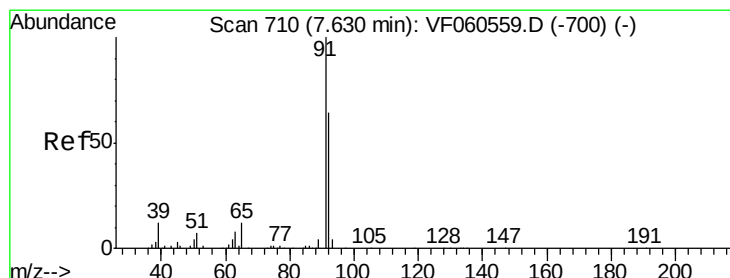
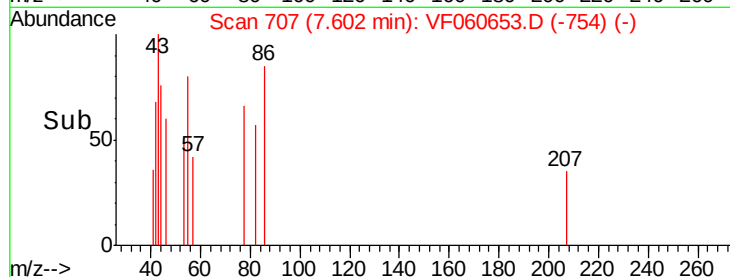
300

200

100

0

Time-->



#52

Toluene

Concen: 60.010 ug/l

RT: 7.08 min Scan# 654

Delta R.T. -0.55 min

Lab File: VF060653.D

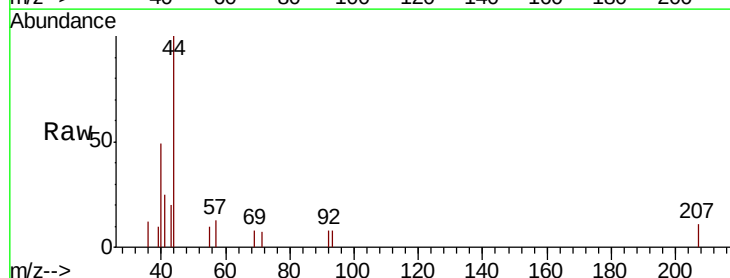
Acq: 8 Nov 2018 16:51

Tgt Ion: 92 Resp: 70

Ion Ratio Lower Upper

92 100

91 0.0 124.5 186.7#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

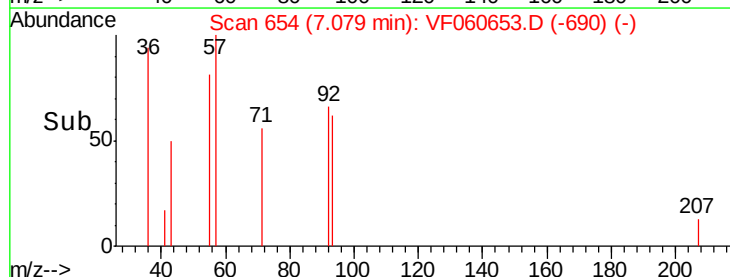
7.08

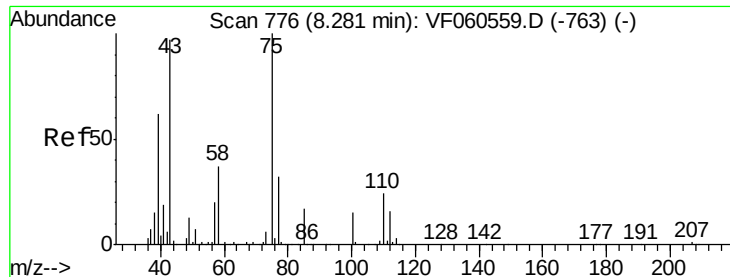
100

50

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 119.852 ug/l

RT: 7.77 min Scan# 724

Delta R.T. -0.51 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

Instrument :

MSVOA_F

ClientSampleId :

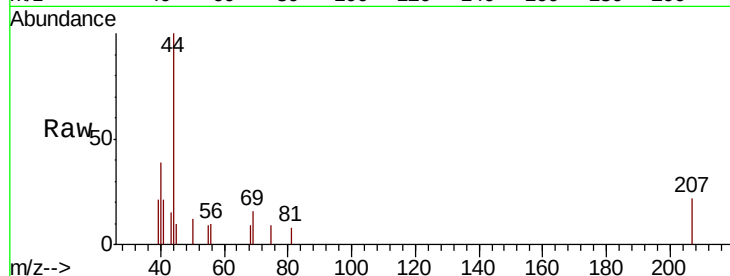
BU-01-110518

Tot Ion: 75 Resp: 73

Ion Ratio Lower Upper

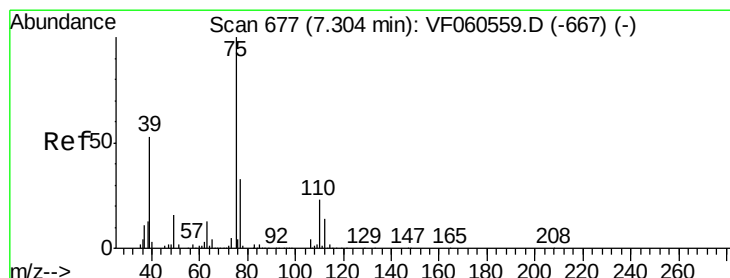
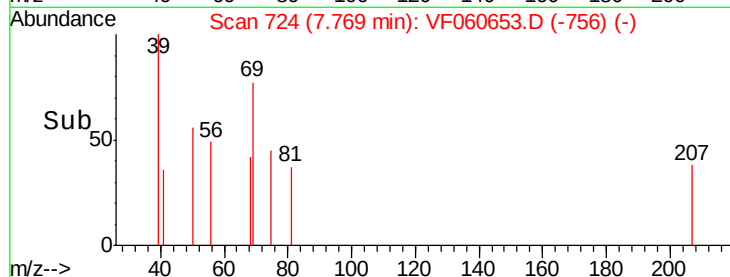
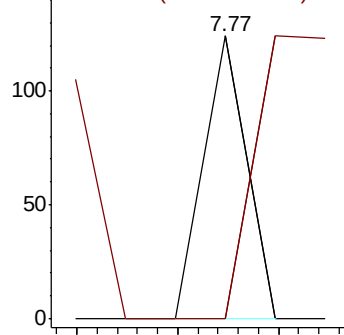
75 100

77 0.0 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 80.566 ug/l

RT: 6.67 min Scan# 613

Delta R.T. -0.63 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

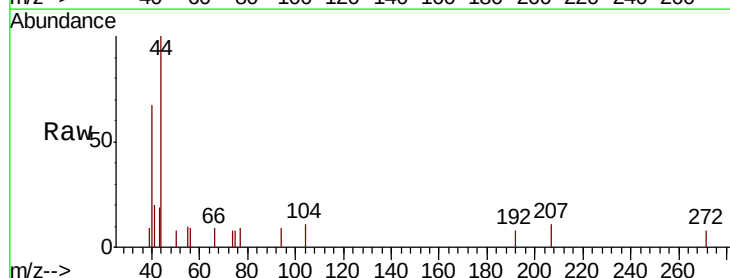
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

77 111.4 26.7 40.1#

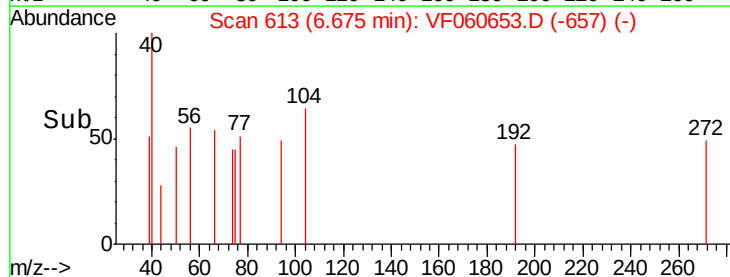
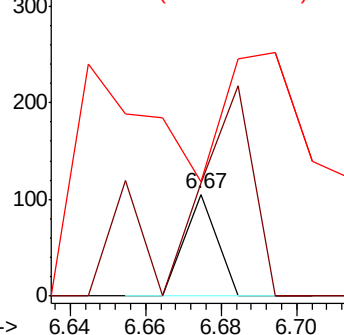
39 112.4 43.0 64.4#

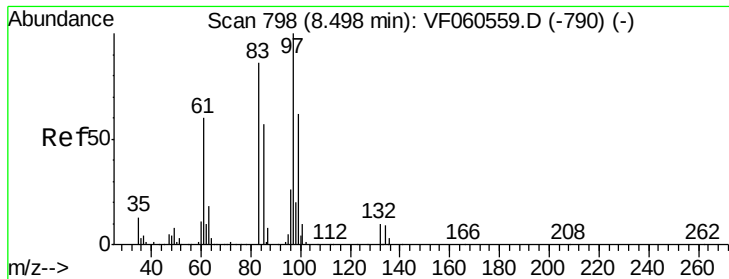


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 268.088 ug/l

RT: 7.85 min Scan# 732

Delta R.T. -0.65 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

Instrument :

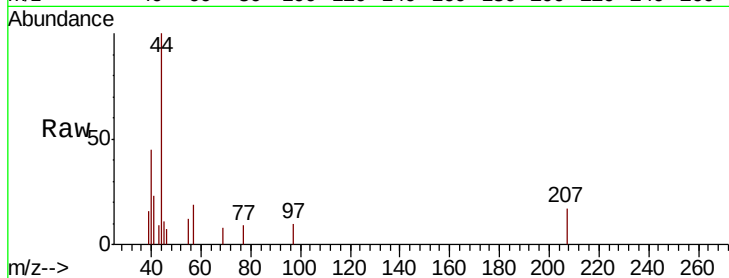
MSVOA_F

ClientSampleId :

BU-01-110518

Tot Ion: 97 Resp: 91

Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.4	104.0#
85	0.0	46.6	69.8#
99	0.0	50.0	75.0#



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0

7.85

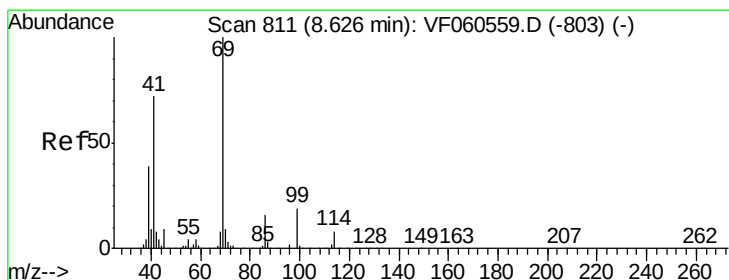
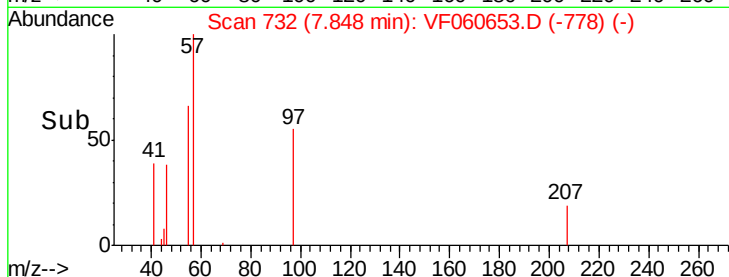
150

100

50

0

Time-->



#56

Ethyl methacrylate

Concen: 164.864 ug/l

RT: 7.93 min Scan# 740

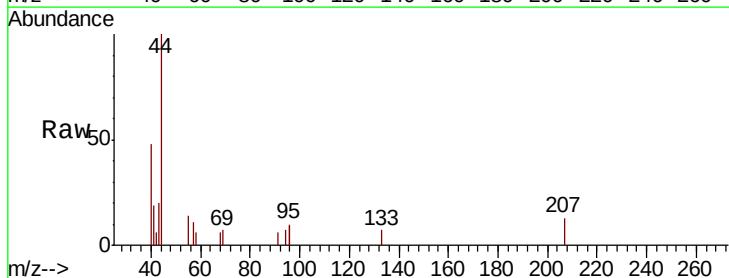
Delta R.T. -0.70 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

Tgt Ion: 69 Resp: 72

Ion	Ratio	Lower	Upper
69	100		
41	251.2	59.2	88.8#
39	0.0	32.3	48.5#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

400

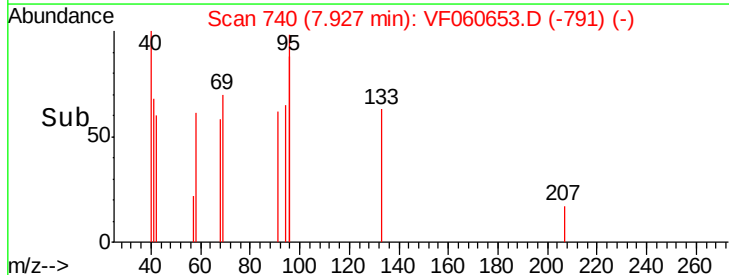
300

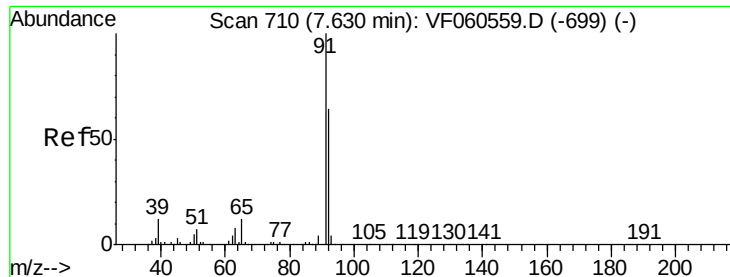
200

100

0

Time-->





#58

2-Chloroethyl Vinyl ether

Concen: 2906.519 ug/l

RT: 7.11 min Scan# 657

Delta R.T. -0.52 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

Instrument :

MSVOA_F

ClientSampleId :

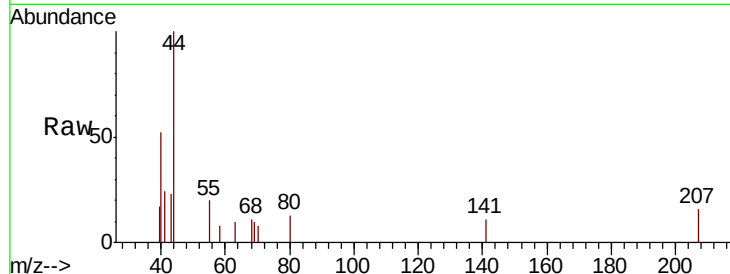
BU-01-110518

Tot Ion: 63 Resp: 75

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

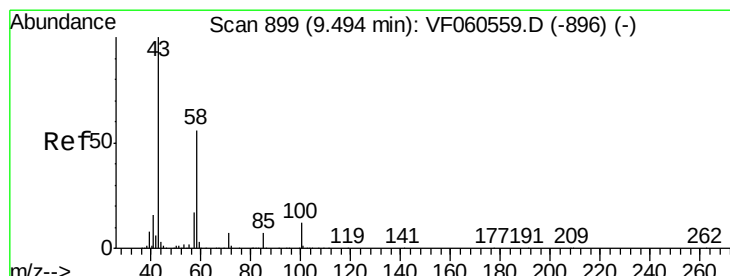
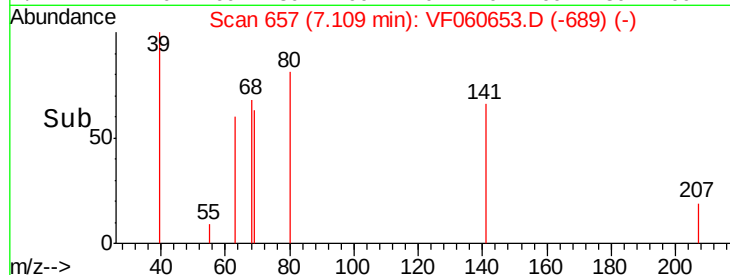
7.11

100

50

0

Time-->



#59

2-Hexanone

Concen: 1166.794 ug/l

RT: 8.77 min Scan# 825

Delta R.T. -0.73 min

Lab File: VF060653.D

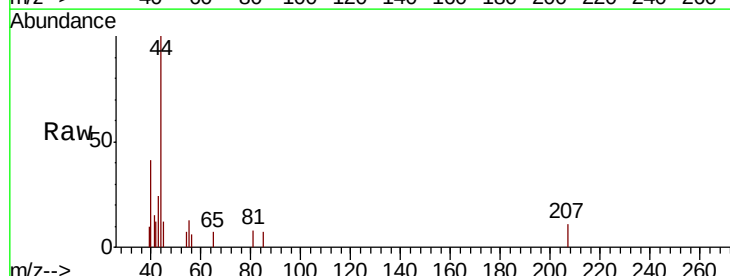
Acq: 8 Nov 2018 16:51

Tgt Ion: 43 Resp: 214

Ion Ratio Lower Upper

43 100

58 0.0 26.1 78.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

500

400

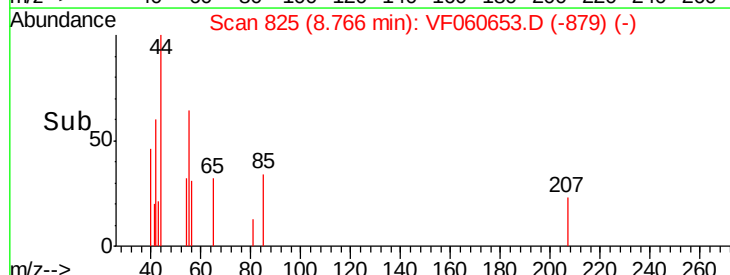
300

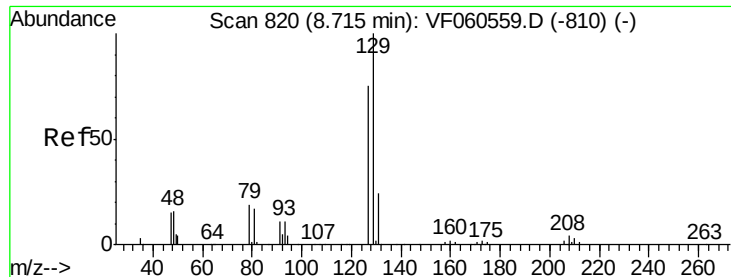
200

100

0

Time-->





#60

Dibromochloromethane

Concen: 139.029 ug/l

RT: 7.91 min Scan# 738

Delta R.T. -0.81 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

Instrument :

MSVOA_F

ClientSampleId :

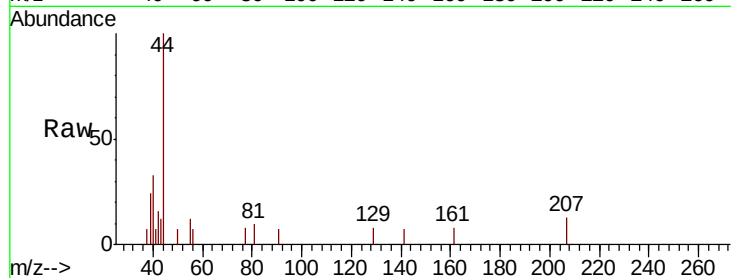
BU-01-110518

Tot Ion:129 Resp: 66

Ion Ratio Lower Upper

129 100

127 0.0 37.8 113.3#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

7.91

120

100

80

60

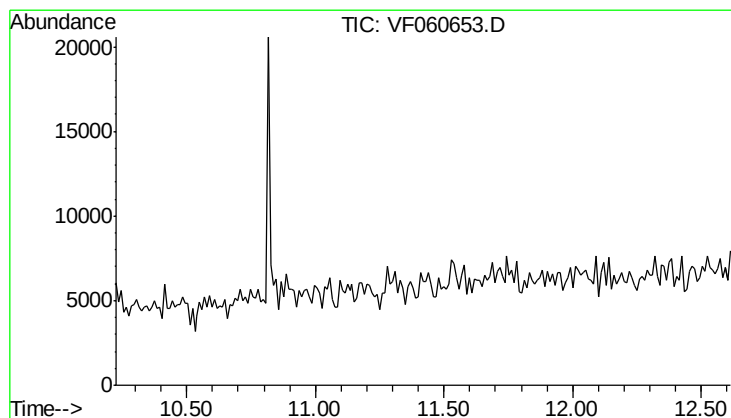
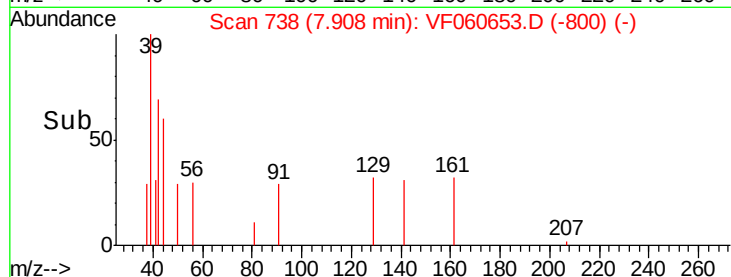
40

20

0

7.88 7.90 7.92 7.94

Time-->



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 11.42 min

Lab File: VF060653.D

Acq: 8 Nov 2018 16:51

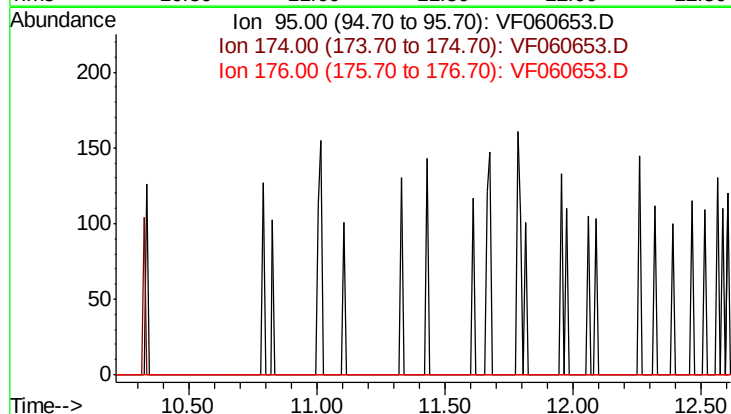
Tgt Ion: 95

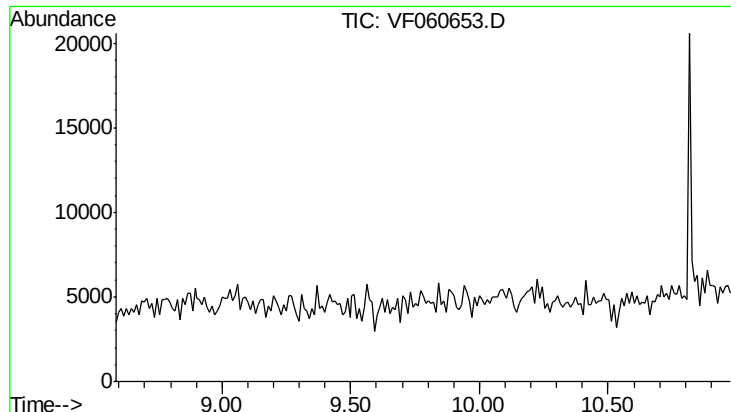
Sig Exp Ratio

95 100

174 74.5

176 72.8

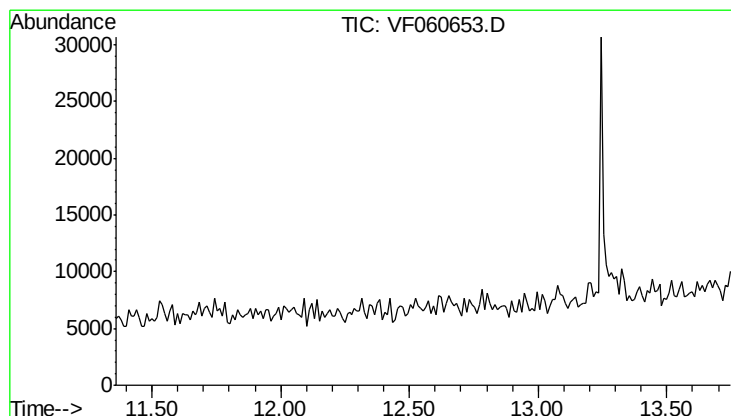
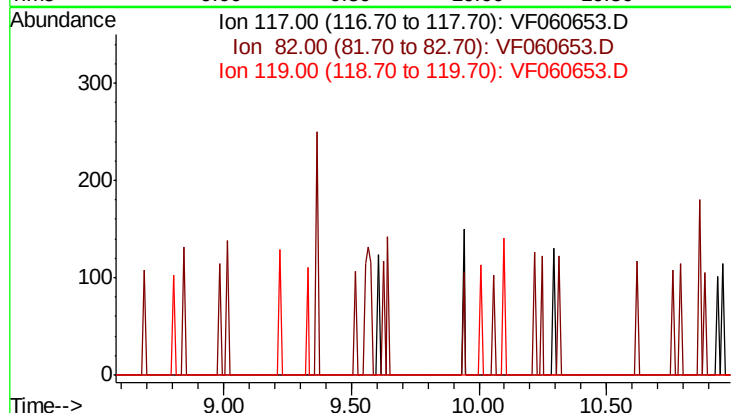




#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.78 min
 Lab File: VF060653.D
 Acq: 8 Nov 2018 16:51

Instrument :
 MSVOA_F
 ClientSampleId :
 BU-01-110518

Tot Ion: 117
 Sig Exp Ratio
 117 100
 82 54.9
 119 34.2



#72
 1,4-Dichlorobenzene-d4
 Concen: 0.000 ug/l
 Expected RT: 12.55 min
 Lab File: VF060653.D
 Acq: 8 Nov 2018 16:51

Tgt Ion: 152
 Sig Exp Ratio
 152 100
 115 59.2
 150 157.8

