

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072418\
 Data File : VF059649.D
 Acq On : 24 Jul 2018 23:59
 Operator : VA/AP
 Sample : J4081-01RE
 Misc : 5.55g/5mL/MSVOA F/SOIL
 ALS Vial : 99 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR200029RE

Quant Time: Jul 25 05:12:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 02:29:31 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	-5.02
34) 1,4-Difluorobenzene	5.54	114	73	50.00	ug/l	-0.21
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.91
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.62

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.95	65	76	0.00	ug/l	-0.06
Spiked Amount 50.000			Recovery =	0.00%		
35) Dibromofluoromethane	3.99	113	60	91.33	ug/l	-0.28
Spiked Amount 50.000			Recovery =	182.66%		
50) Toluene-d8	7.50	98	71	44.34	ug/l	-0.19
Spiked Amount 50.000			Recovery =	88.68%		
62) 4-Bromofluorobenzene	11.09	95	66	80.21	ug/l	-0.41
Spiked Amount 50.000			Recovery =	160.42%		

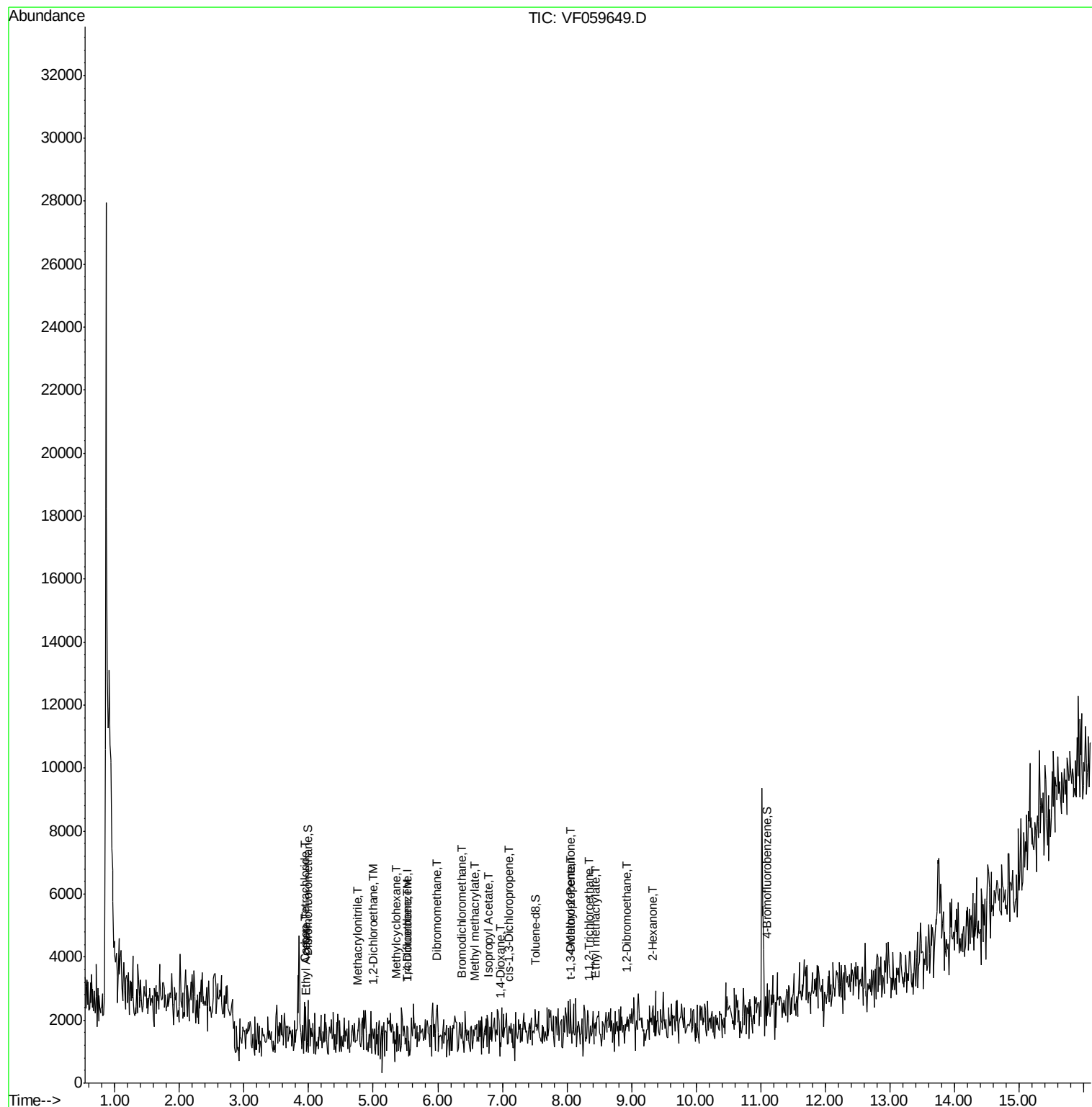
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
37) Ethyl Acetate	3.97	43	365	1559.738	ug/l #	1
38) Carbon Tetrachloride	3.95	117	80	77.511	ug/l #	9
39) Methylcyclohexane	5.37	83	61	100.561	ug/l #	9
41) Methacrylonitrile	4.75	41	93	664.766	ug/l #	53
42) 1,2-Dichloroethane	5.00	62	68	82.947	ug/l	84
43) Isopropyl Acetate	6.79	43	163	495.538	ug/l #	50
44) Trichloroethene	5.54	130	65	127.287	ug/l	1
46) Dibromomethane	6.00	93	60	202.785	ug/l #	3
47) Bromodichloromethane	6.38	83	70	80.915	ug/l #	28
48) Methyl methacrylate	6.58	41	80	330.384	ug/l #	66
49) 1,4-Dioxane	6.97	88	96	51519.923	ug/l #	22
51) 4-Methyl-2-Pentanone	8.06	43	86	355.725	ug/l #	41
53) t-1,3-Dichloropropene	8.07	75	132	191.484	ug/l #	43
54) cis-1,3-Dichloropropene	7.10	75	60	82.340	ug/l #	18
55) 1,1,2-Trichloroethane	8.35	97	65	210.711	ug/l #	14
56) Ethyl methacrylate	8.44	69	70	212.282	ug/l #	15
59) 2-Hexanone	9.32	43	64	346.654	ug/l #	29
61) 1,2-Dibromoethane	8.93	107	71	188.490	ug/l #	1

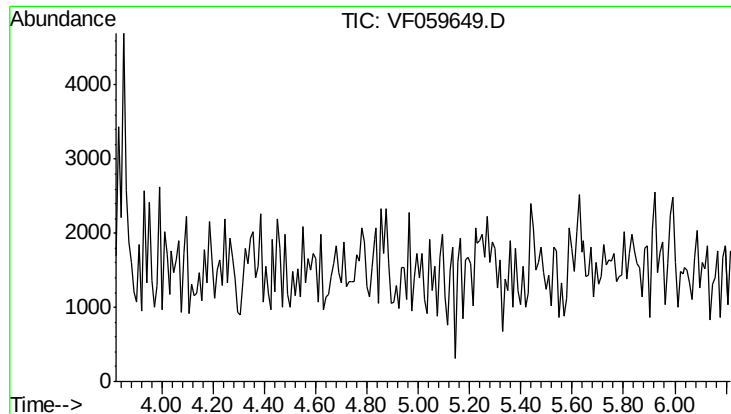
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.02 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Tot Ion: 168

Sig Exp Ratio

168 100

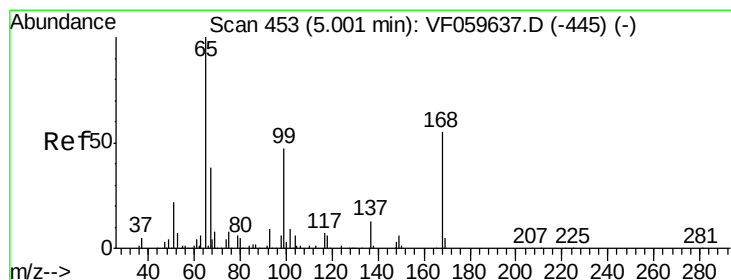
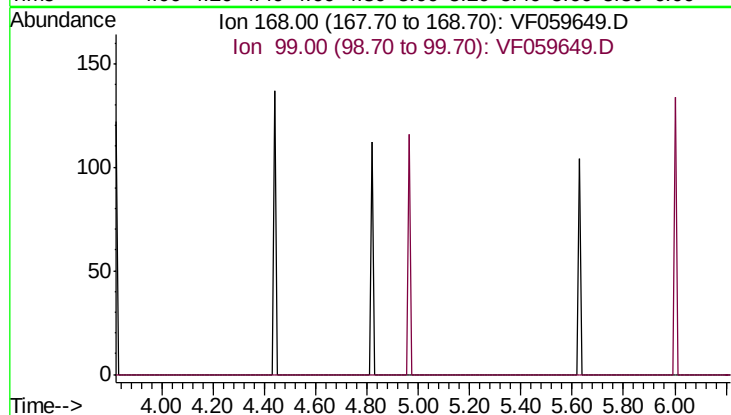
99 74.4

Instrument :

MSVOA_F

ClientSampleId :

RBR200029RE



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.95 min Scan# 448

Delta R.T. -0.06 min

Lab File: VF059649.D

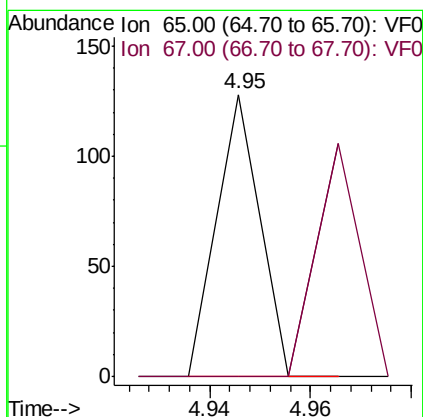
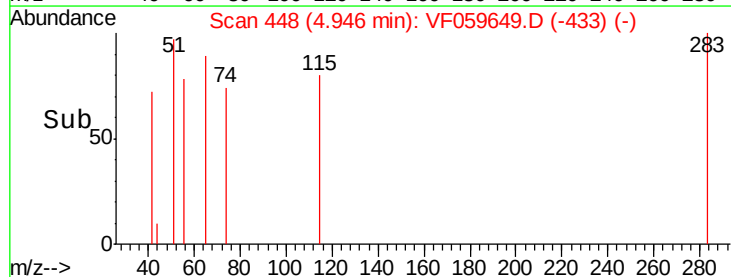
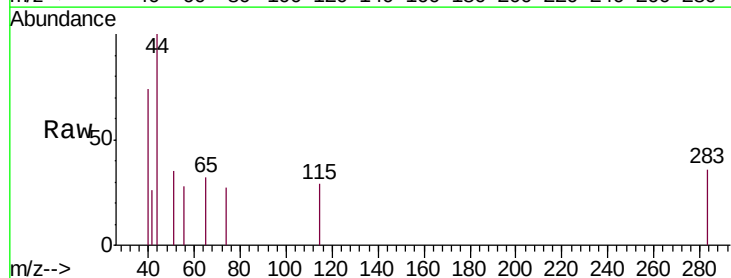
Acq: 24 Jul 2018 23:59

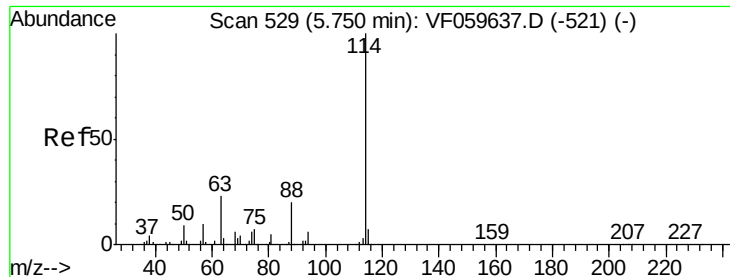
Tgt Ion: 65 Resp: 76

Ion Ratio Lower Upper

65 100

67 0.0 0.0 86.6

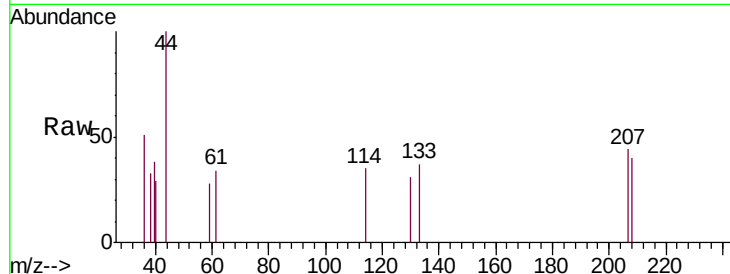




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.54 min Scan# 508
 Delta R.T. -0.21 min
 Lab File: VF059649.D
 Acq: 24 Jul 2018 23:59

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR200029RE

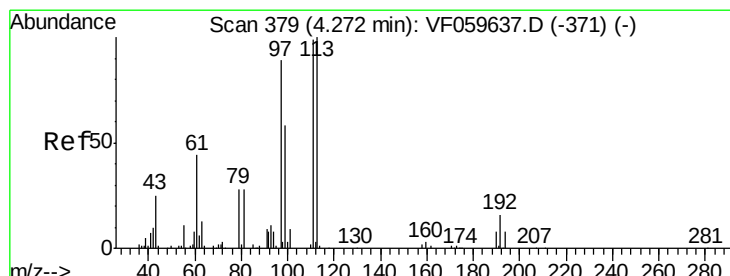
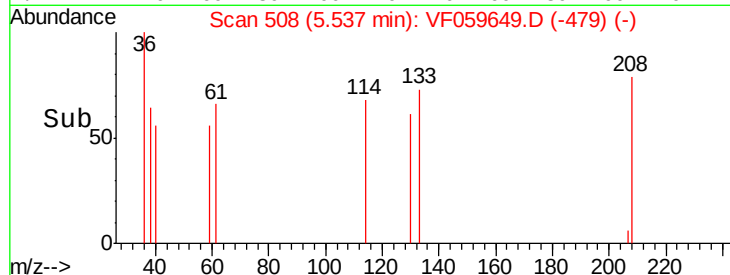
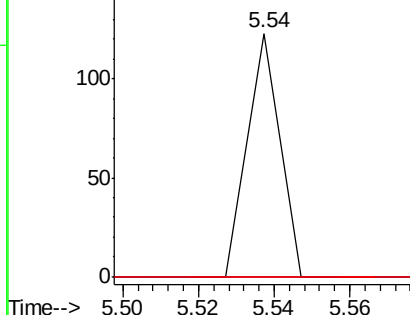
Tot Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	45.6
88	0.0	0.0	40.8



Abundance Ion 114.00 (113.70 to 114.70): V

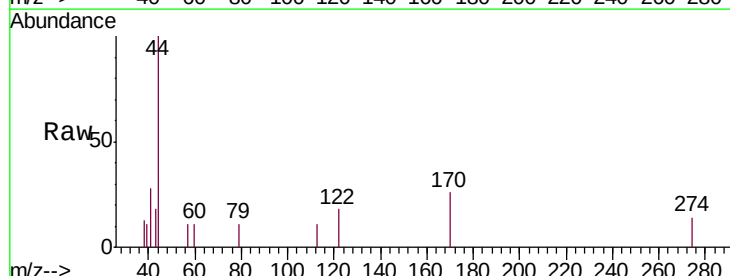
Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35
 Dibromofluoromethane
 Concen: 91.328 ug/l
 RT: 3.99 min Scan# 351
 Delta R.T. -0.28 min
 Lab File: VF059649.D
 Acq: 24 Jul 2018 23:59

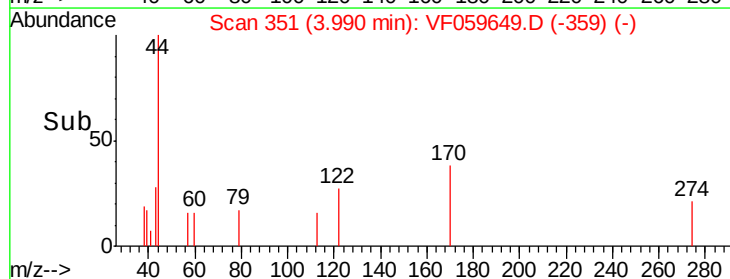
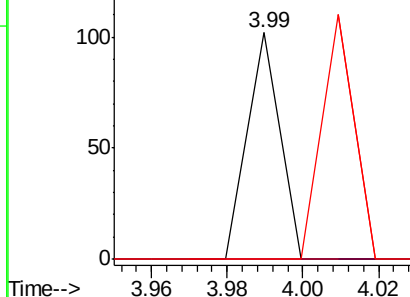
Tgt Ion	Ratio	Lower	Upper
113	100		
111	0.0	79.3	118.9#
192	0.0	13.4	20.2#

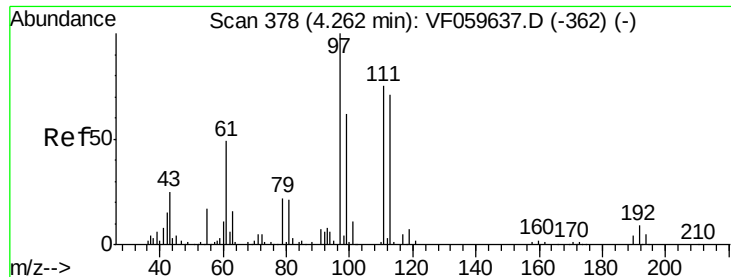


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 1559.738 ug/l

RT: 3.97 min Scan# 349

Delta R.T. -0.29 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Instrument :

MSVOA_F

ClientSampleId :

RBR200029RE

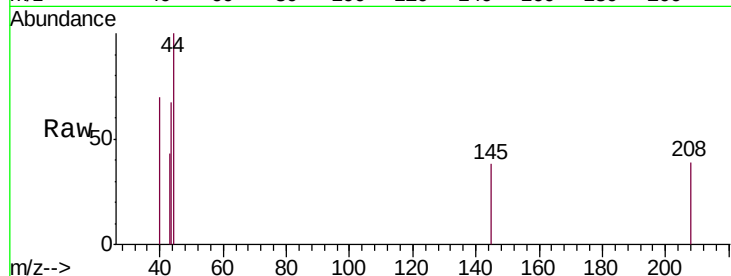
Tot Ion: 43 Resp: 365

Ion Ratio Lower Upper

43 100

61 0.0 156.6 234.8#

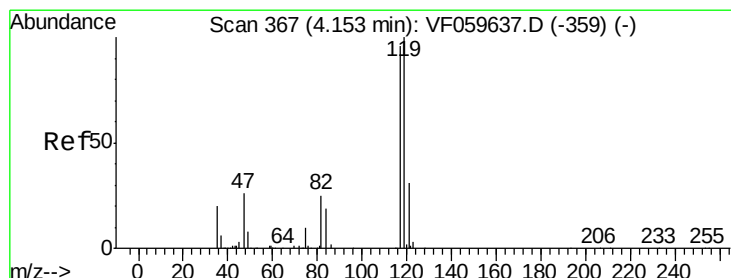
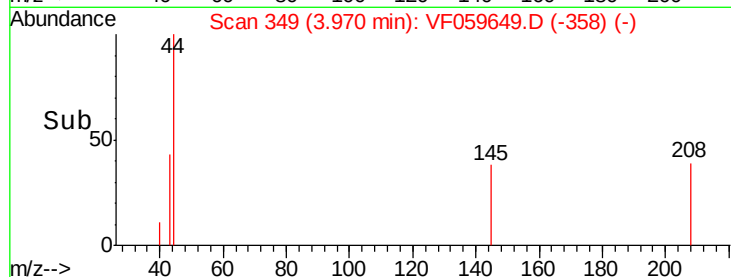
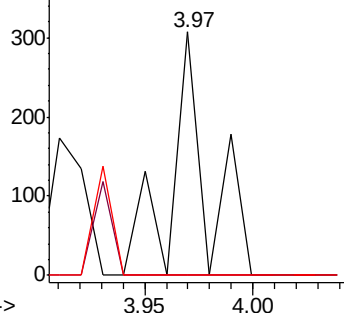
70 0.0 7.3 10.9#



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



#38

Carbon Tetrachloride

Concen: 77.511 ug/l

RT: 3.95 min Scan# 347

Delta R.T. -0.20 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

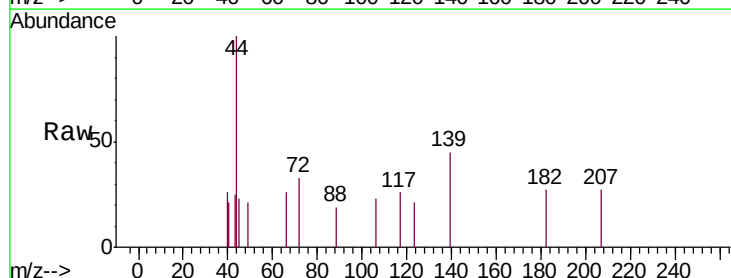
Tgt Ion: 117 Resp: 80

Ion Ratio Lower Upper

117 100

119 0.0 83.0 124.6#

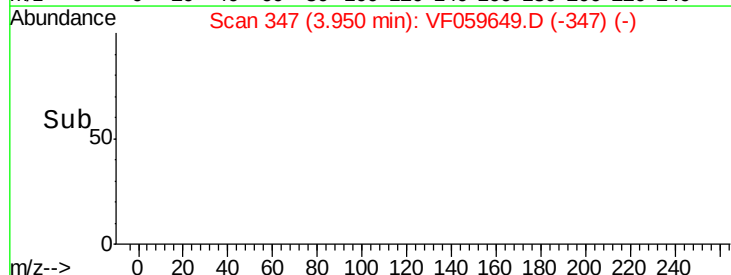
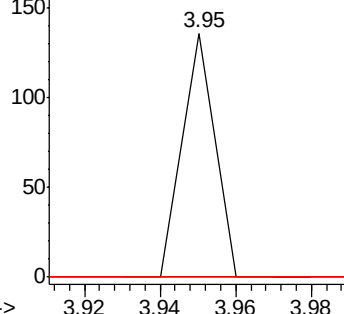
121 0.0 26.2 39.4#

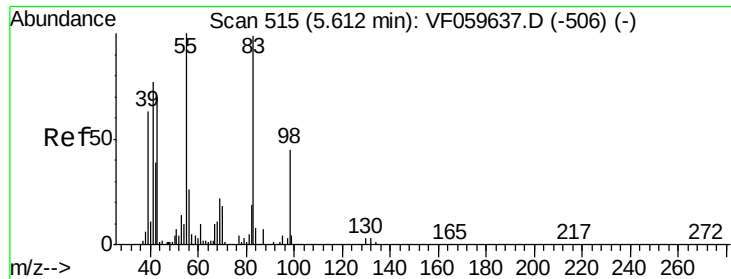


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#39

Methylcyclohexane

Concen: 100.561 ug/l

RT: 5.37 min Scan# 491

Delta R.T. -0.24 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Instrument :

MSVOA_F

ClientSampleId :

RBR200029RE

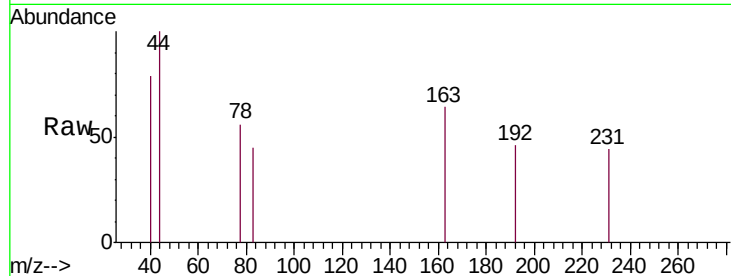
Tot Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

55 0.0 81.5 122.3#

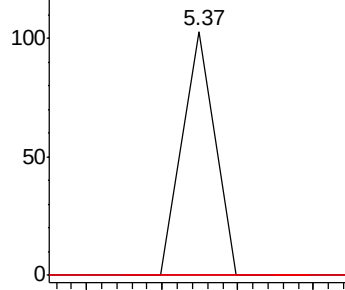
98 0.0 36.7 55.1#



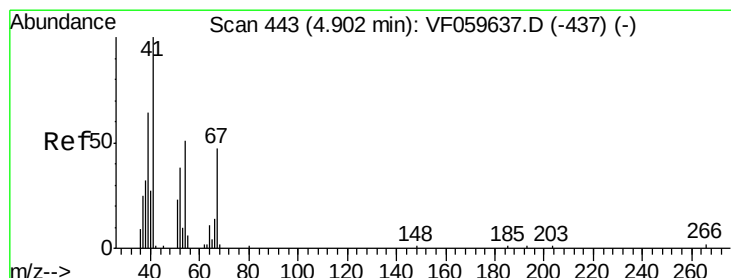
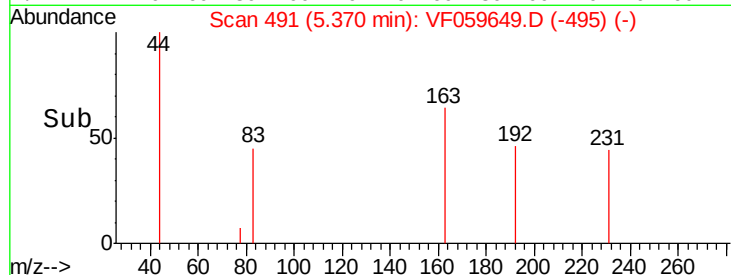
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



Time-->



#41

Methacrylonitrile

Concen: 664.766 ug/l

RT: 4.75 min Scan# 428

Delta R.T. -0.15 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Tgt Ion: 41 Resp: 93

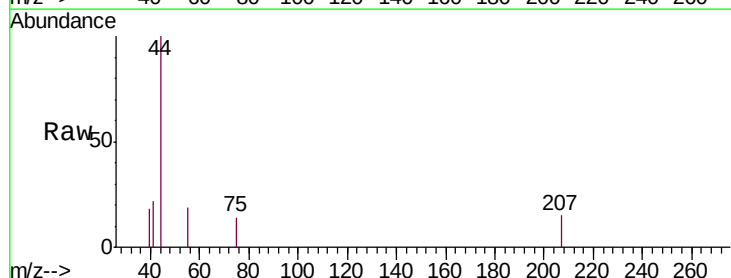
Ion Ratio Lower Upper

41 100

39 81.6 56.9 85.3

67 0.0 36.6 54.8#

52 0.0 42.6 63.8#

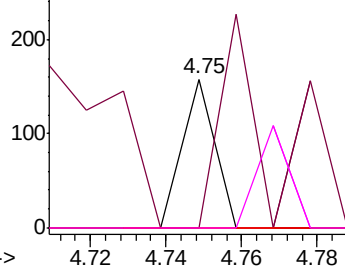


Abundance Ion 41.00 (40.70 to 41.70): VF0

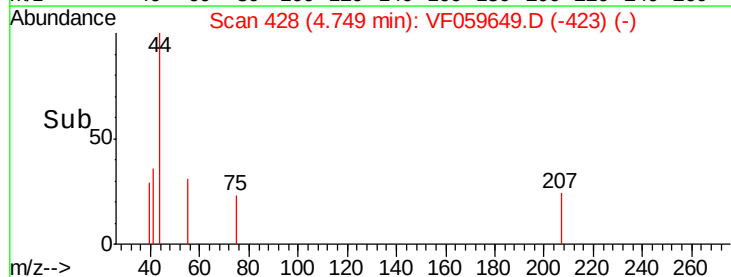
Ion 39.00 (38.70 to 39.70): VF0

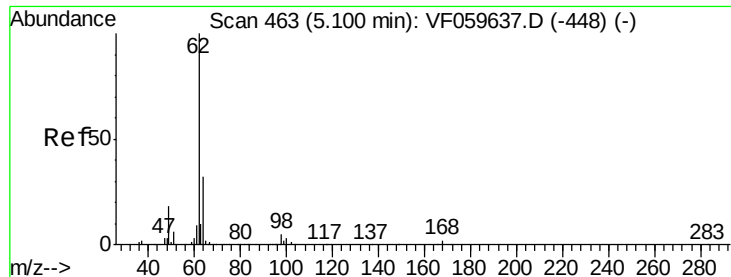
Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



Time-->

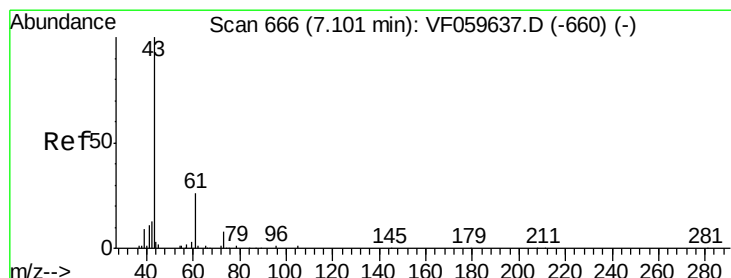
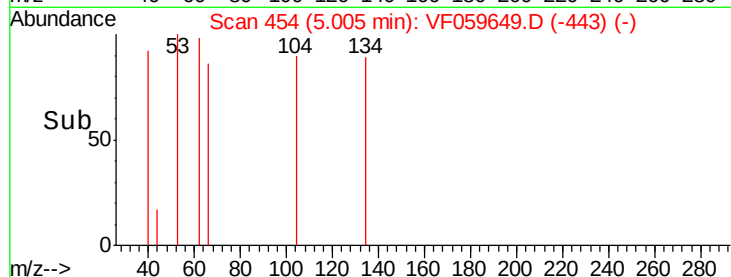
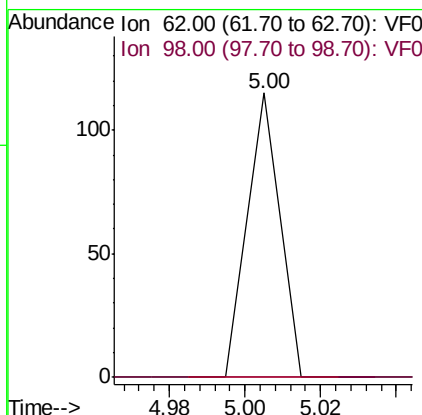
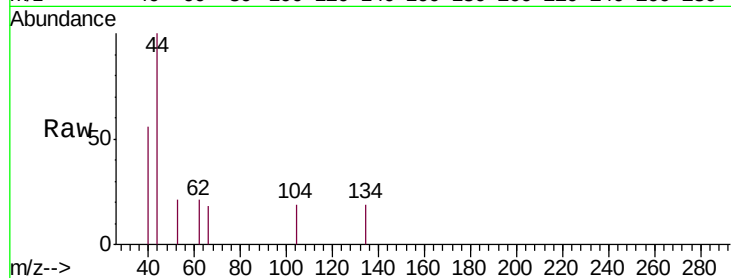




#42
 1,2-Dichloroethane
 Concen: 82.947 ug/l
 RT: 5.00 min Scan# 454
 Delta R.T. -0.09 min
 Lab File: VF059649.D
 Acq: 24 Jul 2018 23:59

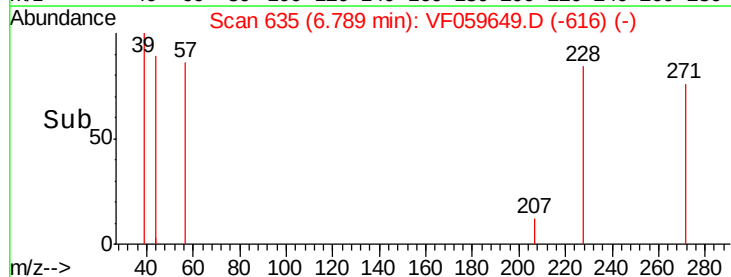
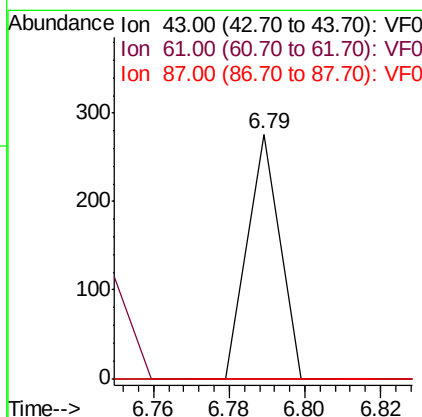
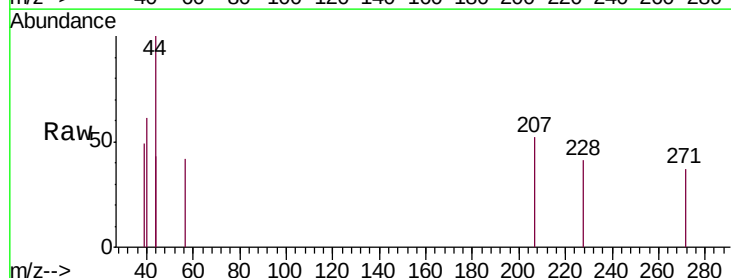
Instrument :
 MSVOA_F
 ClientSampleId :
 RBR200029RE

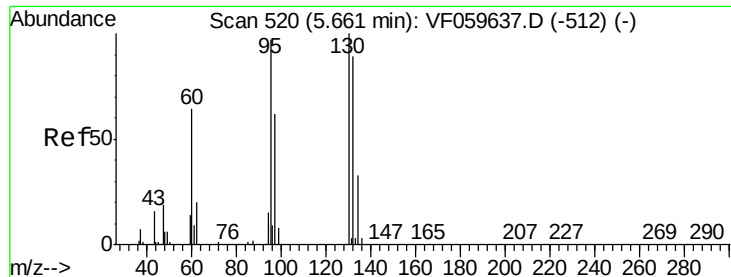
Tot Ion: 62 Resp: 68
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 10.6



#43
 Isopropyl Acetate
 Concen: 495.538 ug/l
 RT: 6.79 min Scan# 635
 Delta R.T. -0.31 min
 Lab File: VF059649.D
 Acq: 24 Jul 2018 23:59

Tgt Ion: 43 Resp: 163
 Ion Ratio Lower Upper
 43 100
 61 0.0 20.5 30.7#
 87 0.0 0.4 0.6#





#44

Trichloroethene

Concen: 127.287 ug/l

RT: 5.54 min Scan# 508

Delta R.T. -0.12 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Instrument :

MSVOA_F

ClientSampleId :

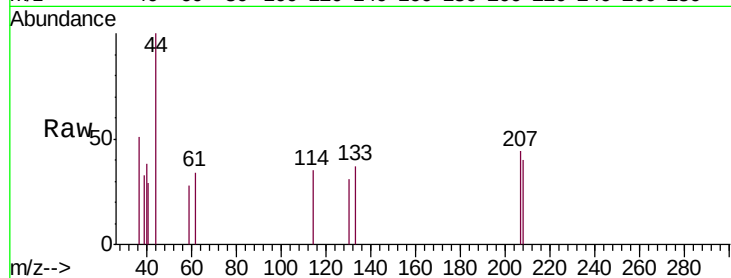
RBR200029RE

Tot Ion:130 Resp: 65

Ion Ratio Lower Upper

130 100

95 0.0 0.0 193.4

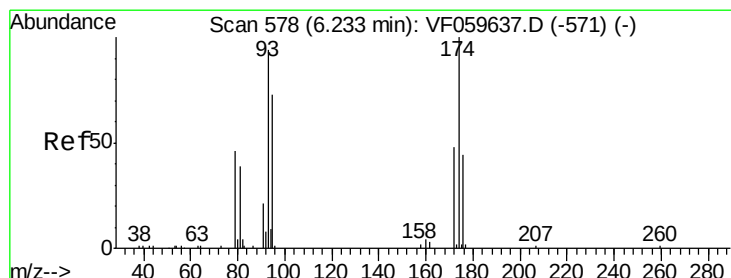
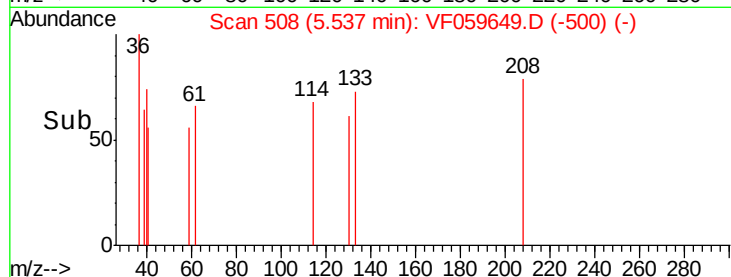


Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

5.54

Time-->



#46

Dibromomethane

Concen: 202.785 ug/l

RT: 6.00 min Scan# 555

Delta R.T. -0.23 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

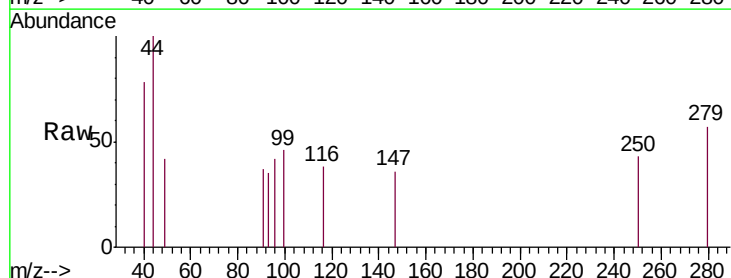
Tgt Ion: 93 Resp: 60

Ion Ratio Lower Upper

93 100

95 0.0 63.1 94.7#

174 0.0 85.3 127.9#



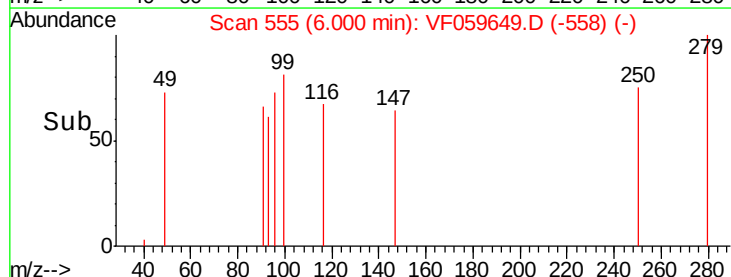
Abundance Ion 93.00 (92.70 to 93.70): VF0

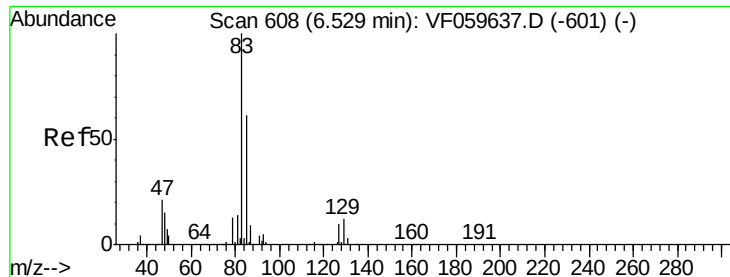
Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

6.00

Time-->





#47

Bromodichloromethane

Concen: 80.915 ug/l

RT: 6.38 min Scan# 593

Delta R.T. -0.15 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Instrument :

MSVOA_F

ClientSampleId :

RBR200029RE

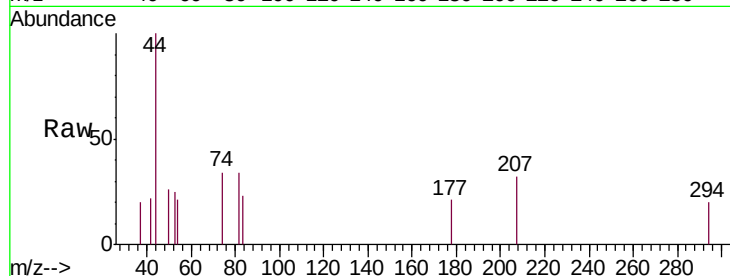
Tot Ion: 83 Resp: 70

Ion Ratio Lower Upper

83 100

85 0.0 48.6 72.8#

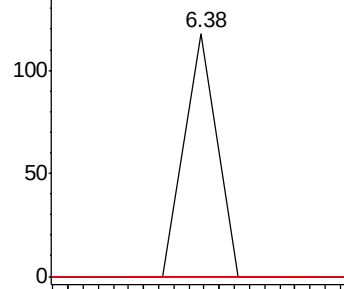
127 0.0 7.7 11.5#



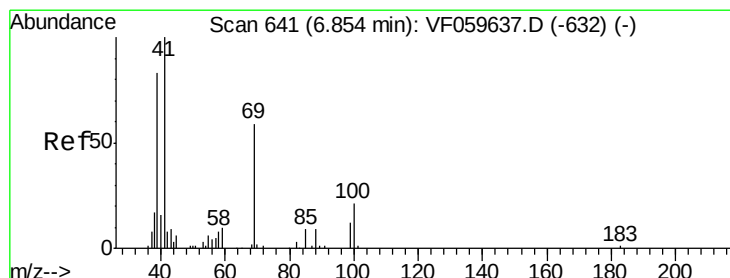
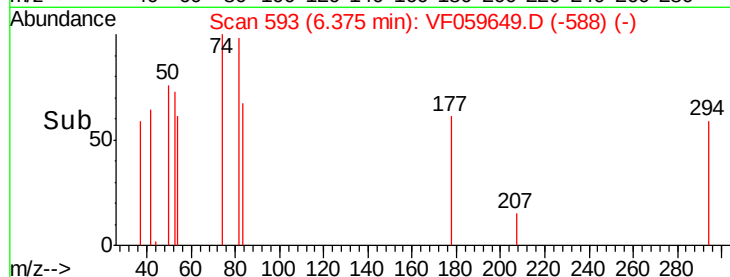
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



Time-->



#48

Methyl methacrylate

Concen: 330.384 ug/l

RT: 6.58 min Scan# 614

Delta R.T. -0.27 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

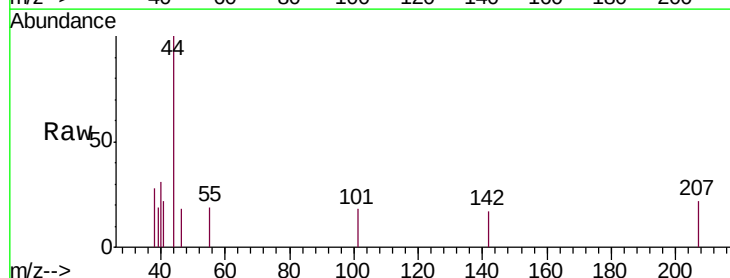
Tgt Ion: 41 Resp: 80

Ion Ratio Lower Upper

41 100

69 0.0 47.5 71.3#

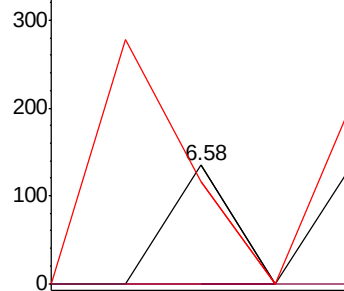
39 85.9 67.0 100.6



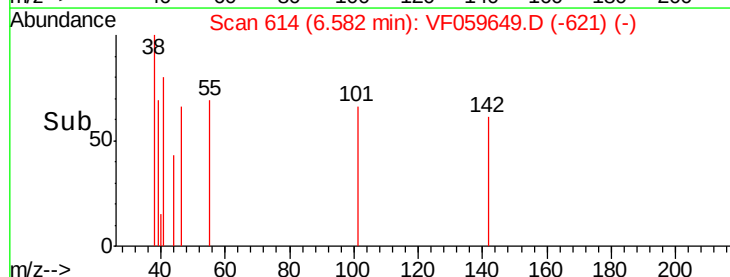
Abundance Ion 41.00 (40.70 to 41.70): VF0

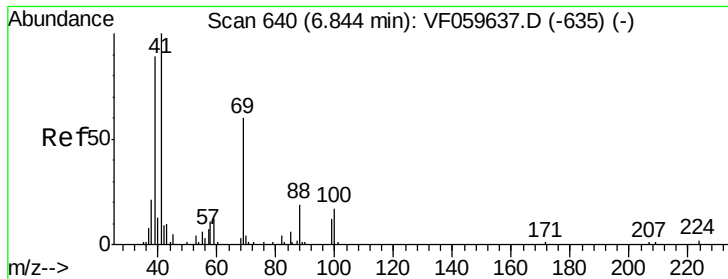
Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->





#49

1,4-Dioxane

Concen: 51519.923 ug/l

RT: 6.97 min Scan# 653

Delta R.T. 0.12 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Instrument :

MSVOA_F

ClientSampleId :

RBR200029RE

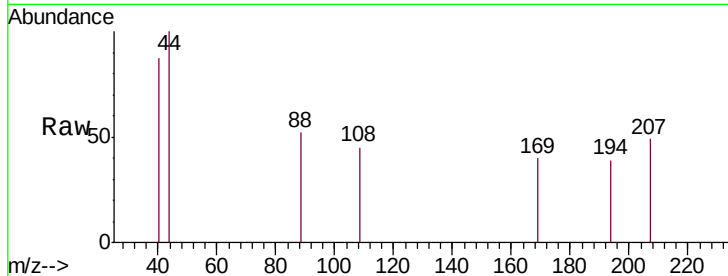
Tot Ion: 88 Resp: 96

Ion Ratio Lower Upper

88 100

43 0.0 45.3 67.9#

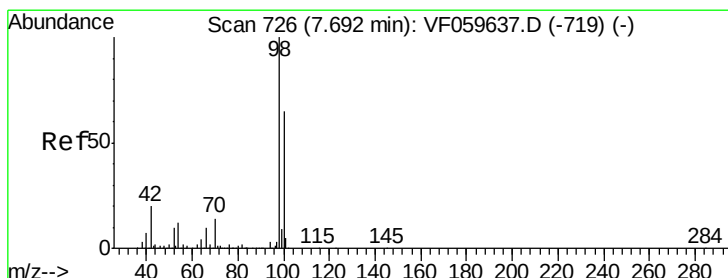
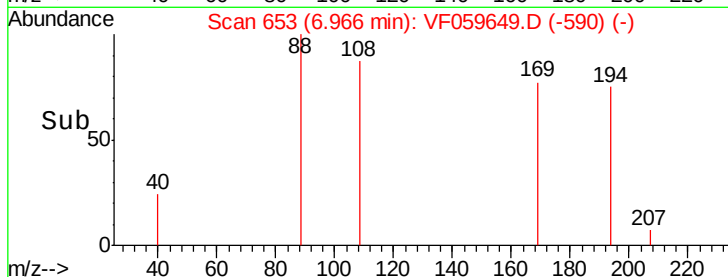
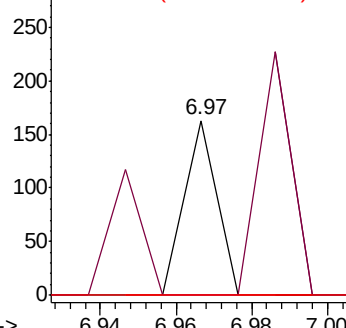
58 0.0 47.7 71.5#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 44.340 ug/l

RT: 7.50 min Scan# 707

Delta R.T. -0.19 min

Lab File: VF059649.D

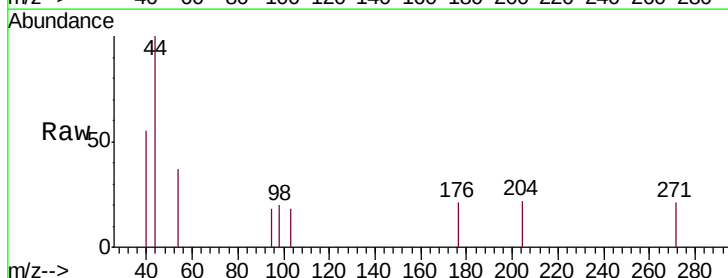
Acq: 24 Jul 2018 23:59

Tgt Ion: 98 Resp: 71

Ion Ratio Lower Upper

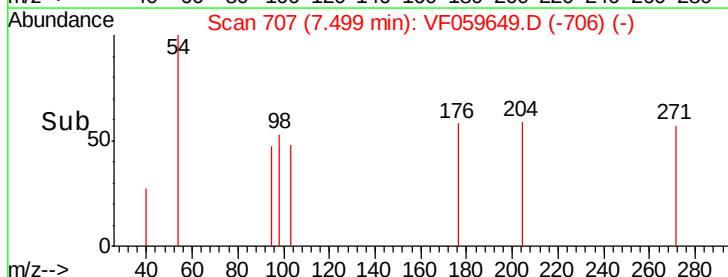
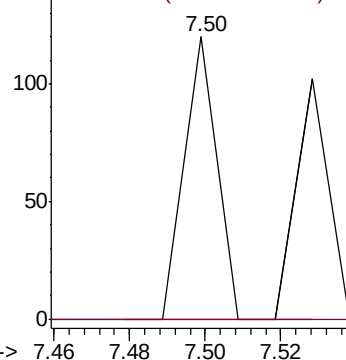
98 100

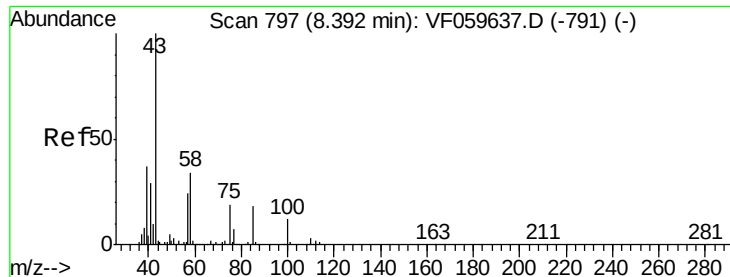
100 0.0 52.2 78.4#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 355.725 ug/l

RT: 8.06 min Scan# 764

Delta R.T. -0.33 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Instrument :

MSVOA_F

ClientSampleId :

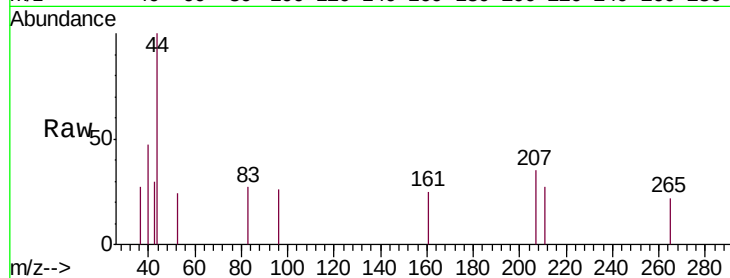
RBR200029RE

Tot Ion: 43 Resp: 86

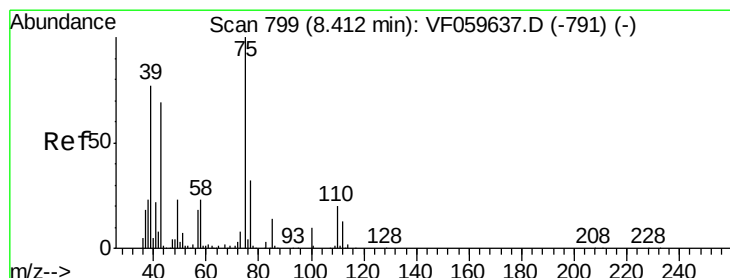
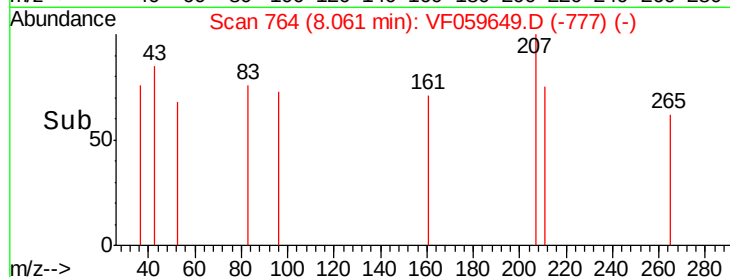
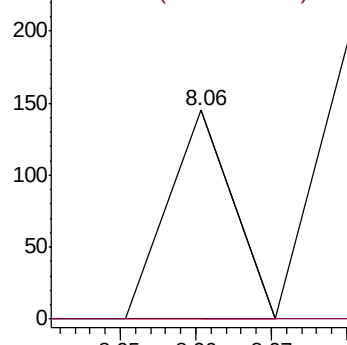
Ion Ratio Lower Upper

43 100

58 0.0 27.3 40.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#53

t-1,3-Dichloropropene

Concen: 191.484 ug/l

RT: 8.07 min Scan# 765

Delta R.T. -0.34 min

Lab File: VF059649.D

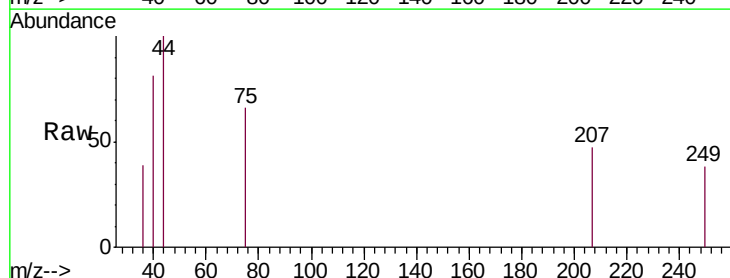
Acq: 24 Jul 2018 23:59

Tgt Ion: 75 Resp: 132

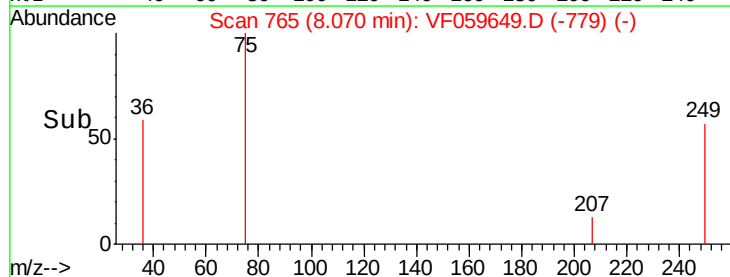
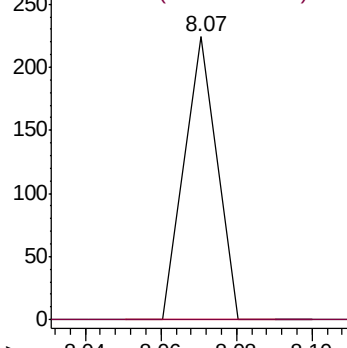
Ion Ratio Lower Upper

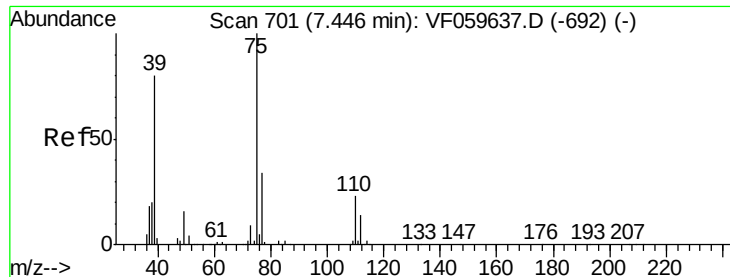
75 100

77 0.0 25.2 37.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 82.340 ug/l

RT: 7.10 min Scan# 667

Delta R.T. -0.34 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Instrument :

MSVOA_F

ClientSampleId :

RBR200029RE

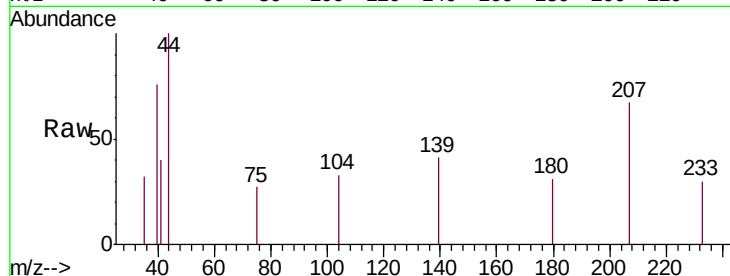
Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

77 0.0 27.5 41.3#

39 0.0 64.4 96.6#

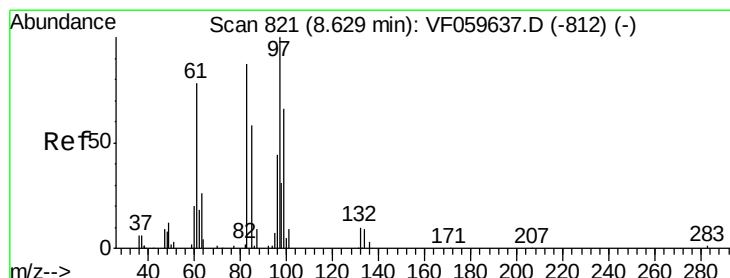
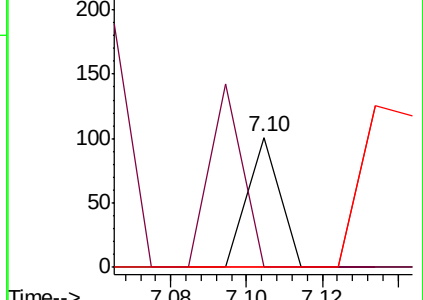
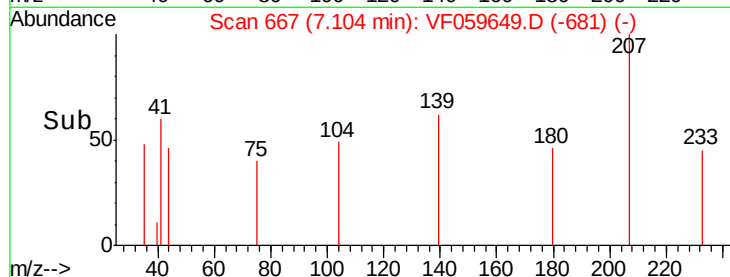


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Time-->



#55

1,1,2-Trichloroethane

Concen: 210.711 ug/l

RT: 8.35 min Scan# 793

Delta R.T. -0.28 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Tgt Ion: 97 Resp: 65

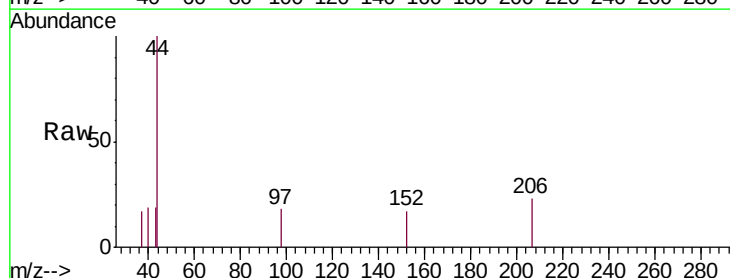
Ion Ratio Lower Upper

97 100

83 0.0 69.5 104.3#

85 0.0 46.0 69.0#

99 0.0 53.2 79.8#



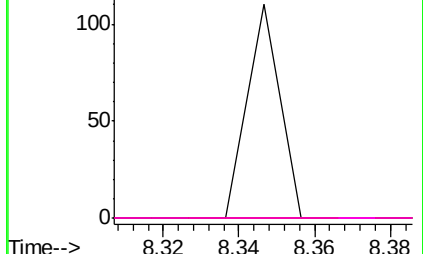
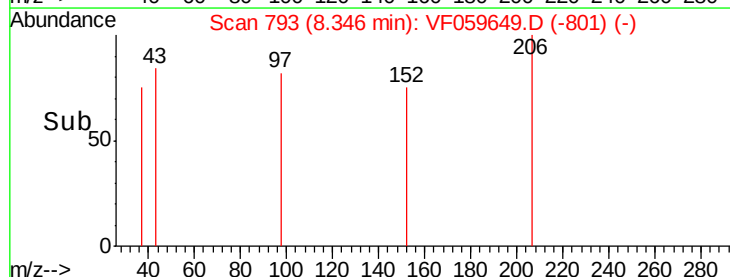
Abundance Ion 97.00 (96.70 to 97.70): VF0

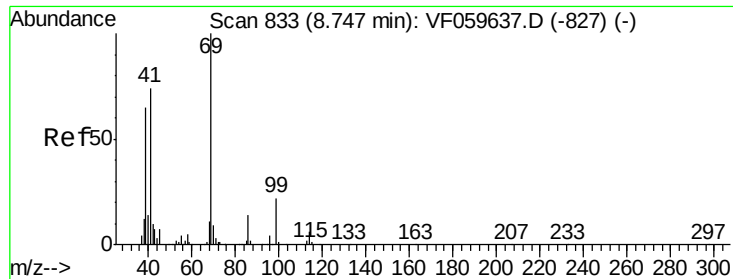
Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0

Time-->





#56

Ethyl methacrylate

Concen: 212.282 ug/l

RT: 8.44 min Scan# 802

Delta R.T. -0.31 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Instrument :

MSVOA_F

ClientSampleId :

RBR200029RE

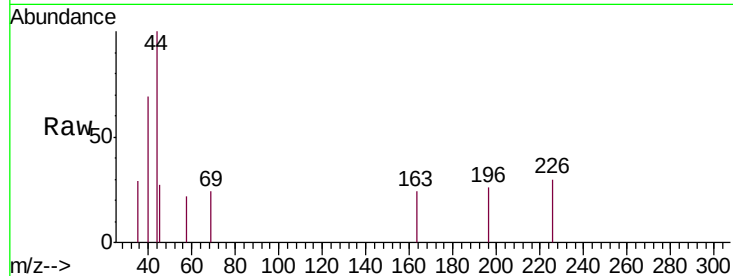
Tot Ion: 69 Resp: 70

Ion Ratio Lower Upper

69 100

41 0.0 59.1 88.7#

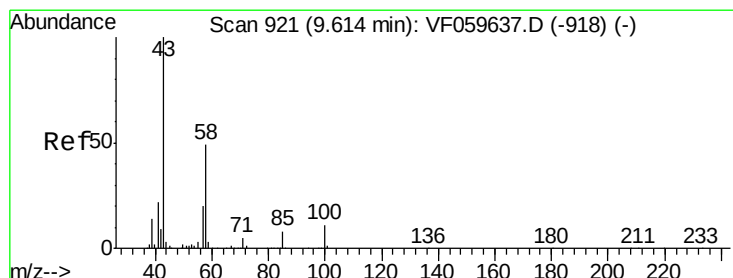
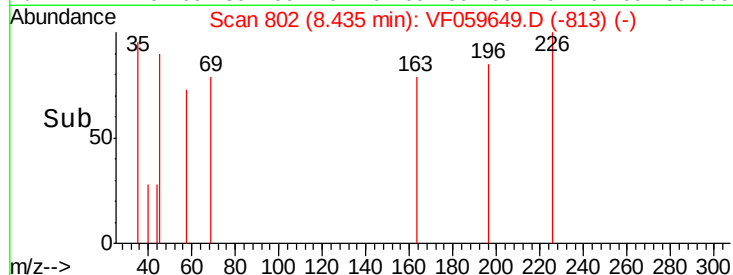
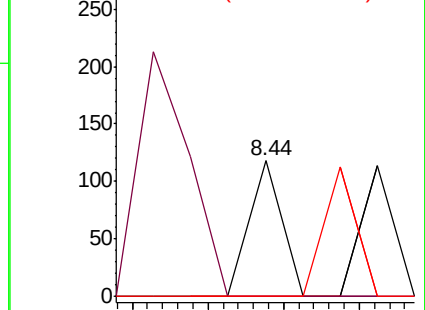
39 0.0 52.4 78.6#



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



#59

2-Hexanone

Concen: 346.654 ug/l

RT: 9.32 min Scan# 892

Delta R.T. -0.29 min

Lab File: VF059649.D

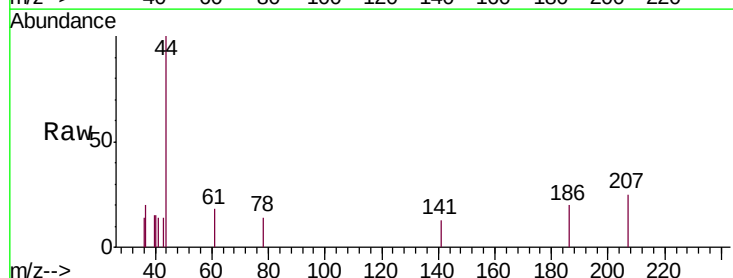
Acq: 24 Jul 2018 23:59

Tgt Ion: 43 Resp: 64

Ion Ratio Lower Upper

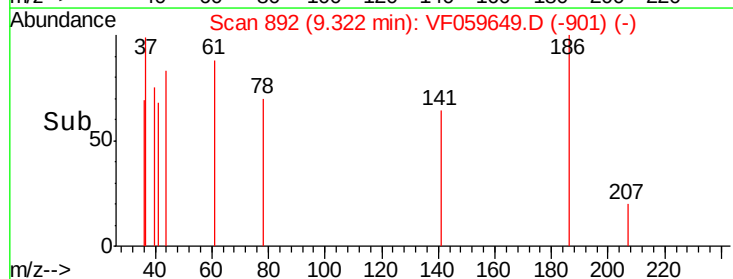
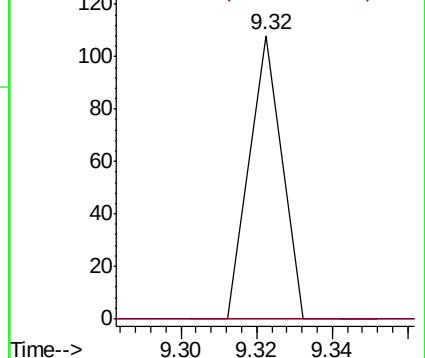
43 100

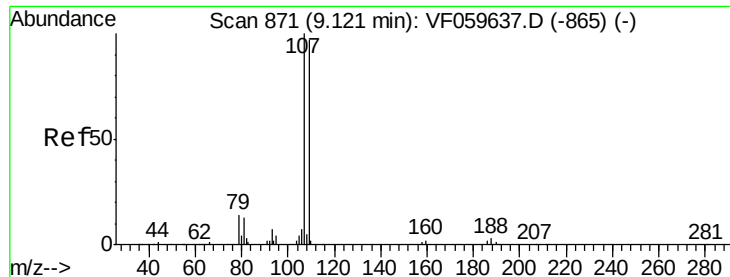
58 0.0 23.6 71.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#61

1,2-Dibromoethane

Concen: 188.490 ug/l

RT: 8.93 min Scan# 852

Delta R.T. -0.19 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

Instrument :

MSVOA_F

ClientSampleId :

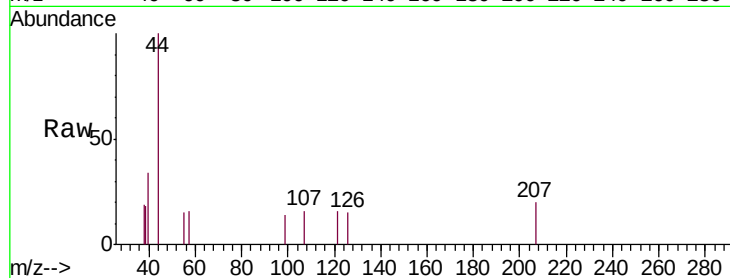
RBR200029RE

Tot Ion:107 Resp: 71

Ion Ratio Lower Upper

107 100

109 0.0 77.3 115.9#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

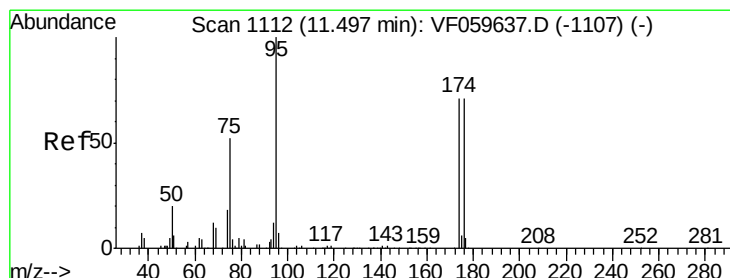
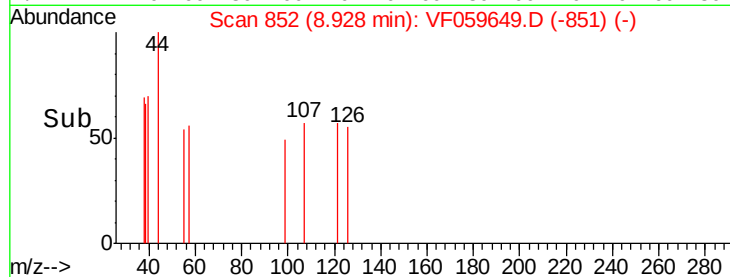
8.93

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 80.214 ug/l

RT: 11.09 min Scan# 1071

Delta R.T. -0.41 min

Lab File: VF059649.D

Acq: 24 Jul 2018 23:59

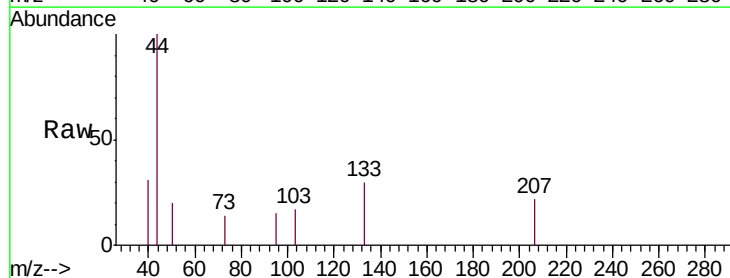
Tgt Ion: 95 Resp: 66

Ion Ratio Lower Upper

95 100

174 0.0 0.0 141.8

176 0.0 0.0 142.0



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

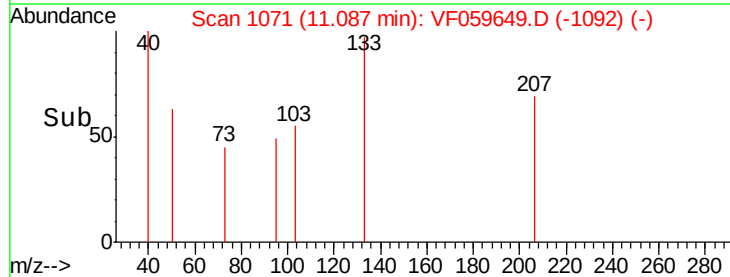
150

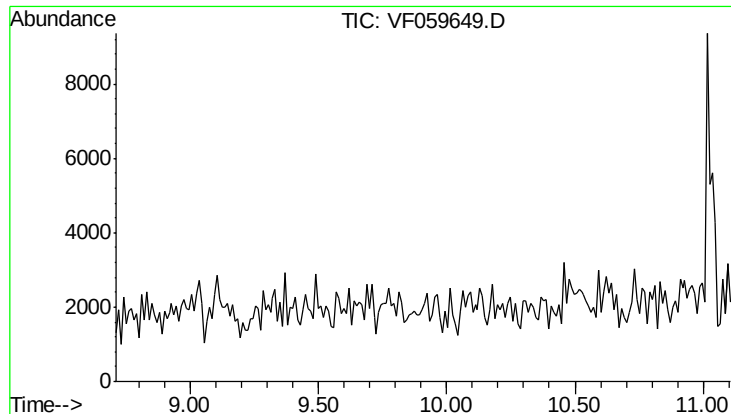
100

50

0

Time-->

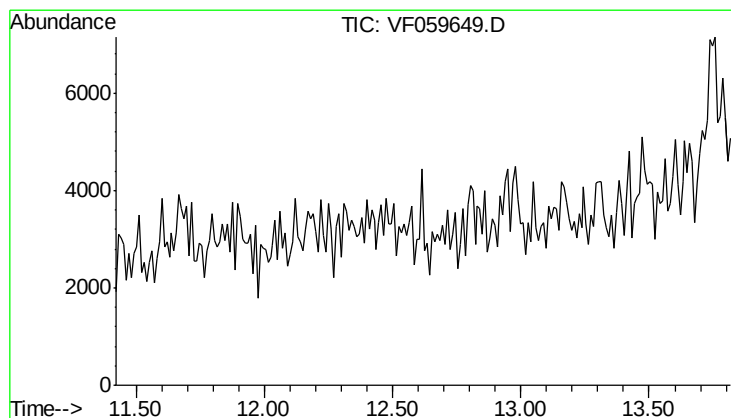
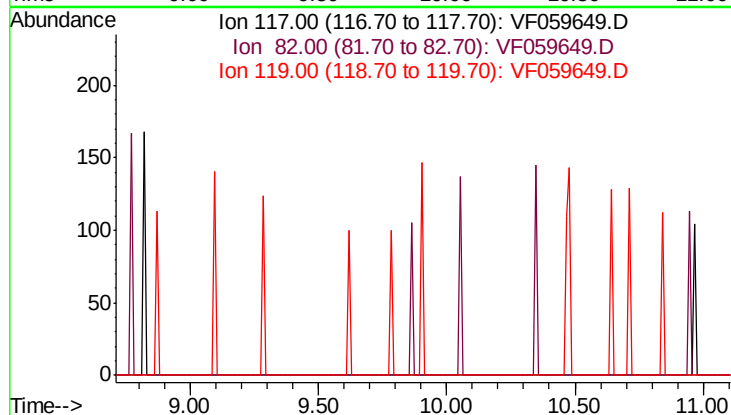




#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.91 min
 Lab File: VF059649.D
 Acq: 24 Jul 2018 23:59

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR200029RE

Tot Ion: 117
 Sig Exp Ratio
 117 100
 82 57.4
 119 31.4



#72
 1,4-Dichlorobenzene-d4
 Concen: 0.000 ug/l
 Expected RT: 12.62 min
 Lab File: VF059649.D
 Acq: 24 Jul 2018 23:59

Tgt Ion: 152
 Sig Exp Ratio
 152 100
 115 64.1
 150 156.6

