

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031419\
 Data File : VF061947.D
 Acq On : 14 Mar 2019 19:16
 Operator : VA/AP
 Sample : K1911-01
 Misc : 4.40g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR200036

Quant Time: Mar 15 01:19:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	14145	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	16918	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	12389	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	4432	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	2642	25.65	ug/l	-0.01
Spiked Amount			Recovery	=	51.30%	
35) Dibromofluoromethane	4.11	113	5433	46.02	ug/l	-0.01
Spiked Amount			Recovery	=	92.04%	
50) Toluene-d8	7.55	98	17481	49.81	ug/l	-0.01
Spiked Amount			Recovery	=	99.62%	
62) 4-Bromofluorobenzene	11.41	95	4800	34.92	ug/l	0.00
Spiked Amount			Recovery	=	69.84%	

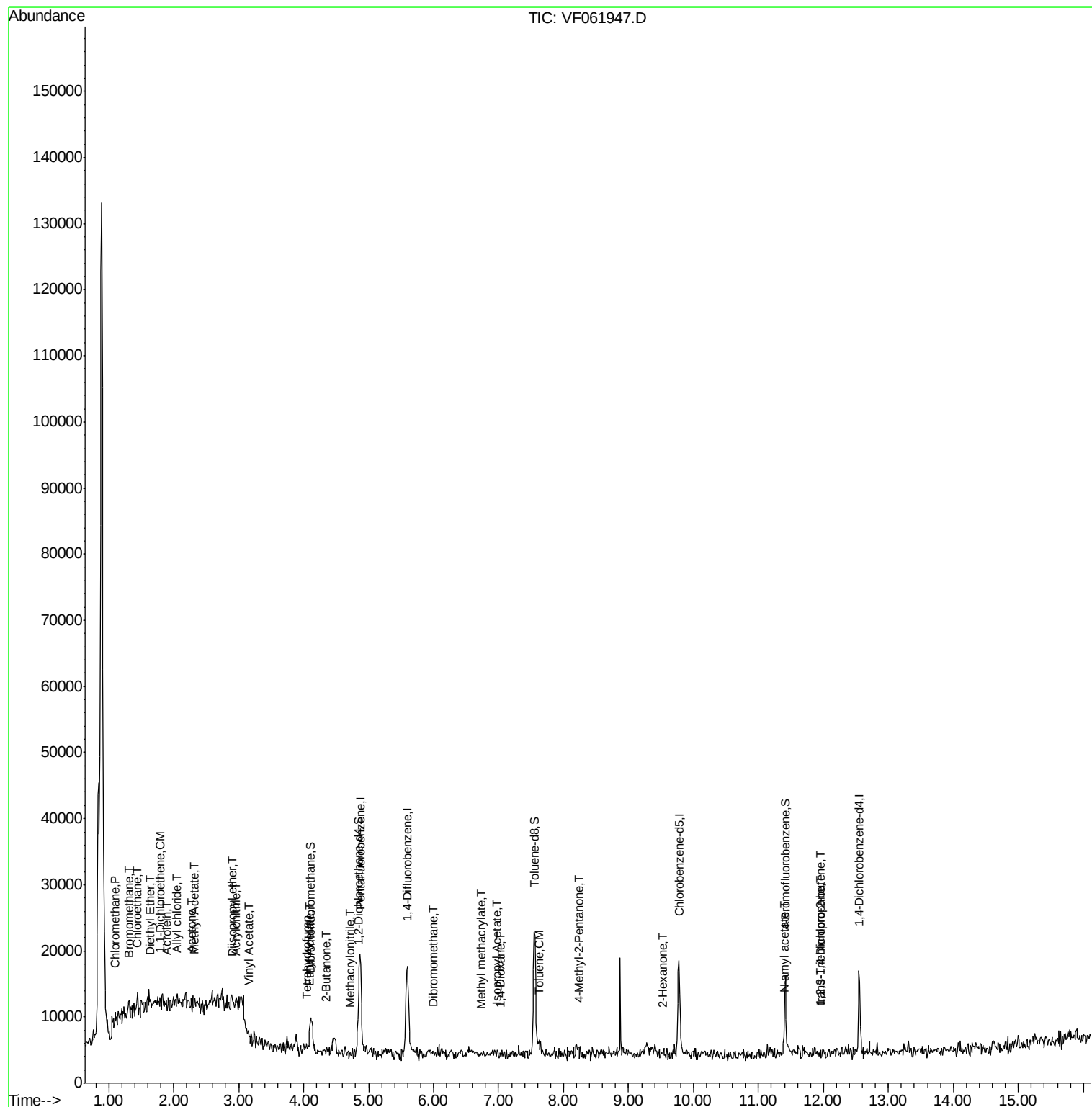
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	184	1.093	ug/l #	45
5) Bromomethane	1.30	94	585	5.373	ug/l #	3
6) Chloroethane	1.44	64	80	1.053	ug/l #	1
8) Diethyl Ether	1.65	74	198	4.462	ug/l	47
12) 1,1-Dichloroethene	1.79	96	140	1.157	ug/l #	1
13) Acrolein	1.88	56	499	67.355	ug/l	94
14) Allyl chloride	2.04	41	230	1.726	ug/l #	88
15) Acrylonitrile	2.94	53	240	12.891	ug/l #	16
16) Acetone	2.26	43	1462	67.755	ug/l	92
18) Methyl Acetate	2.33	43	811	16.930	ug/l #	62
22) Diisopropyl ether	2.91	45	634	1.829	ug/l #	16
23) Vinyl Acetate	3.14	43	590	3.810	ug/l #	76
25) 2-Butanone	4.35	43	201	4.580	ug/l #	56
29) Tetrahydrofuran	4.05	42	182	9.615	ug/l #	66
37) Ethyl Acetate	4.08	43	243	3.623	ug/l #	20
41) Methacrylonitrile	4.73	41	245	6.666	ug/l #	24
43) Isopropyl Acetate	6.98	43	159	1.923	ug/l #	42
46) Dibromomethane	5.99	93	64	1.024	ug/l #	2
48) Methyl methacrylate	6.72	41	234	4.472	ug/l #	18
49) 1,4-Dioxane	7.04	88	60	125.428	ug/l #	26
51) 4-Methyl-2-Pentanone	8.22	43	425	7.437	ug/l #	35
52) Toluene	7.63	92	960	3.885	ug/l	77
59) 2-Hexanone	9.52	43	139	3.372	ug/l #	22
74) N-ethyl acetate	11.39	43	113	1.609	ug/l #	42
76) 1,2,3-Trichloropropane	11.96	75	74	2.138	ug/l #	10
81) trans-1,4-Dichloro-2-buten	11.96	75	74	4.676	ug/l #	18

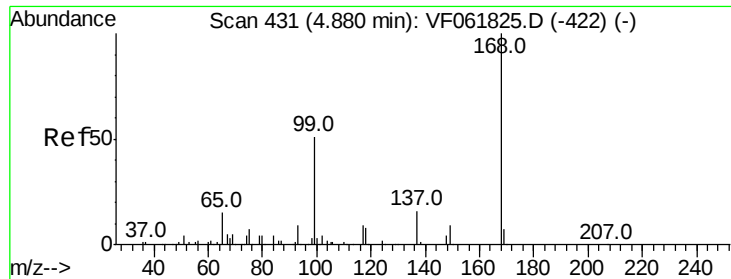
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF031419\
Data File : VF061947.D
Acq On : 14 Mar 2019 19:16
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Quant Time: Mar 15 01:19:10 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
Quant Title : SW846 8260
QLast Update : Tue Mar 05 04:50:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampleId :

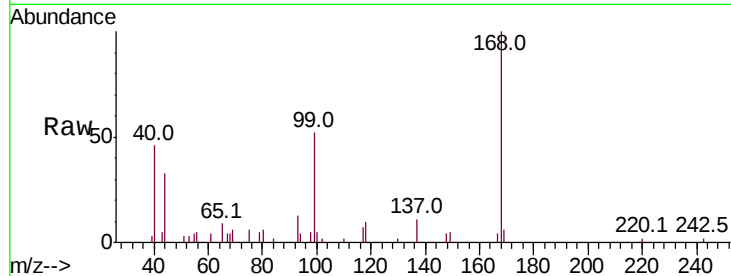
RBR200036

Tot Ion:168 Resp: 14145

Ion Ratio Lower Upper

168 100

99 52.2 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

6000

5000

4000

3000

2000

1000

0

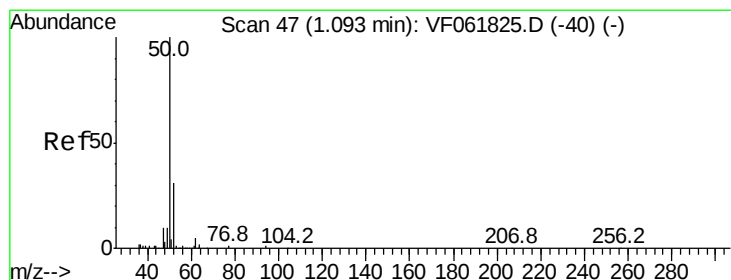
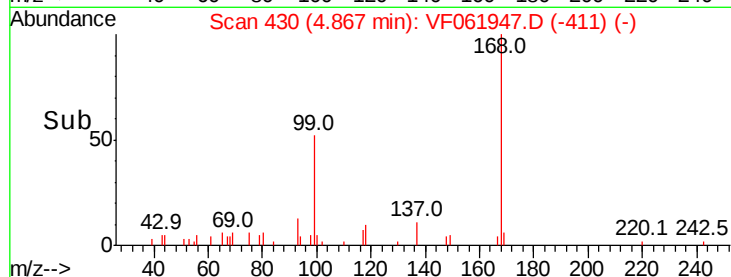
4.87

4.80

4.90

5.00

Time-->



#3

Chloromethane

Concen: 1.093 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061947.D

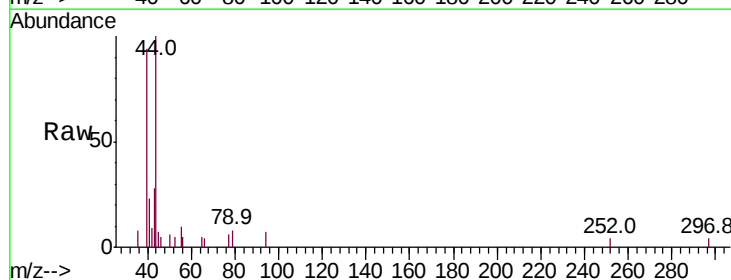
Acq: 14 Mar 2019 19:16

Tgt Ion: 50 Resp: 184

Ion Ratio Lower Upper

50 100

52 0.0 23.8 35.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

200

150

100

50

0

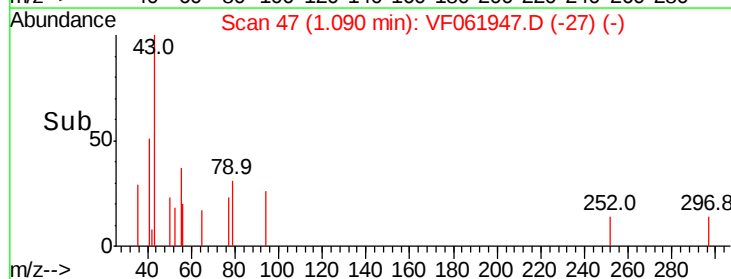
1.09

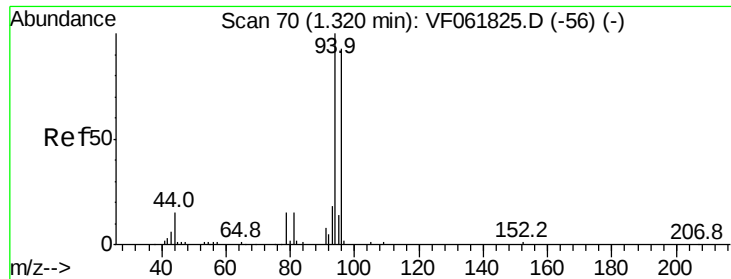
1.08

1.10

1.12

Time-->





#5

Bromomethane

Concen: 5.373 ug/l

RT: 1.30 min Scan# 68

Delta R.T. -0.02 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampleId :

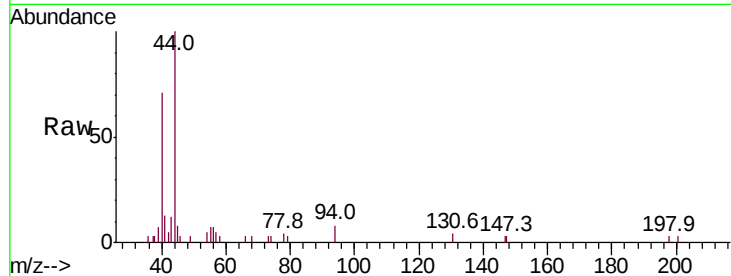
RBR200036

Tot Ion: 94 Resp: 585

Ion Ratio Lower Upper

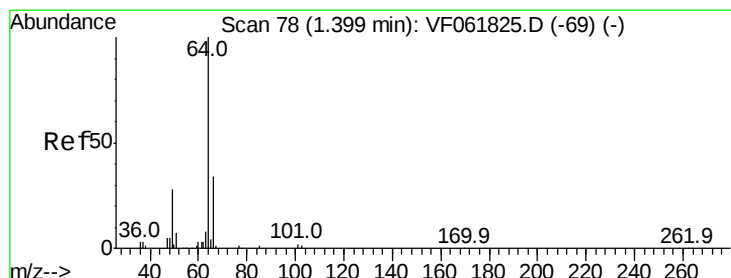
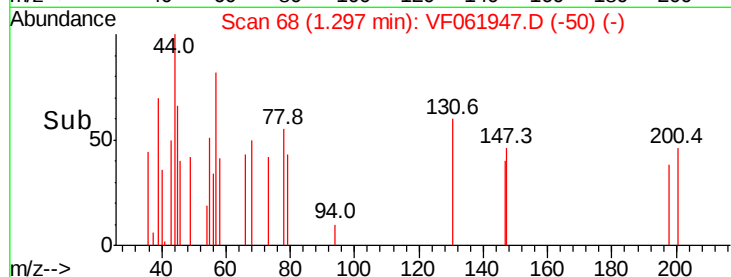
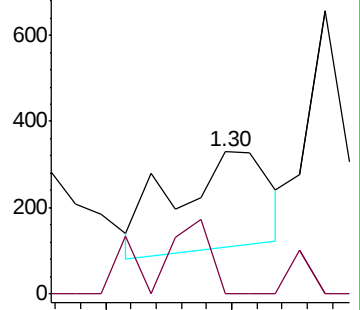
94 100

96 0.0 75.2 112.8#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 1.053 ug/l

RT: 1.44 min Scan# 82

Delta R.T. 0.04 min

Lab File: VF061947.D

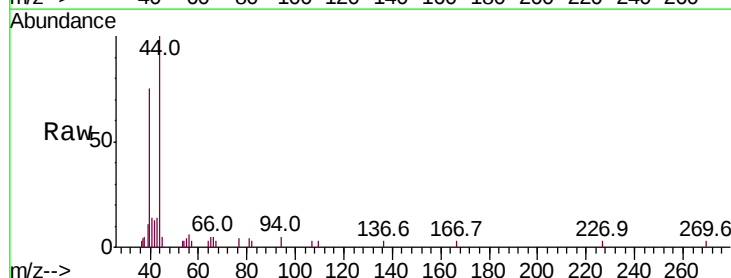
Acq: 14 Mar 2019 19:16

Tgt Ion: 64 Resp: 80

Ion Ratio Lower Upper

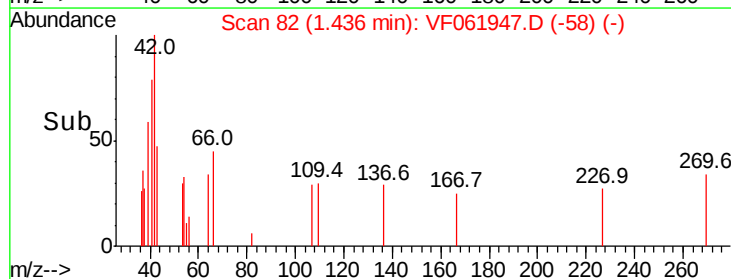
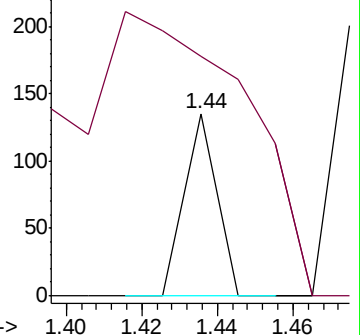
64 100

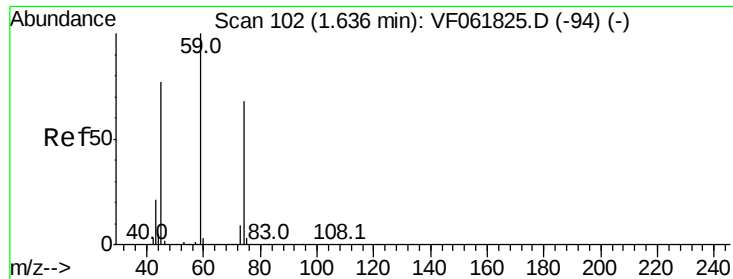
66 131.9 27.0 40.4#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#8

Diethyl Ether

Concen: 4.462 ug/l

RT: 1.65 min Scan# 104

Delta R.T. 0.02 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampleId :

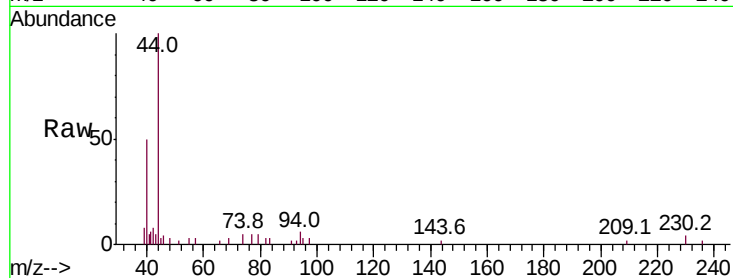
RBR200036

Tot Ion: 74 Resp: 198

Ion Ratio Lower Upper

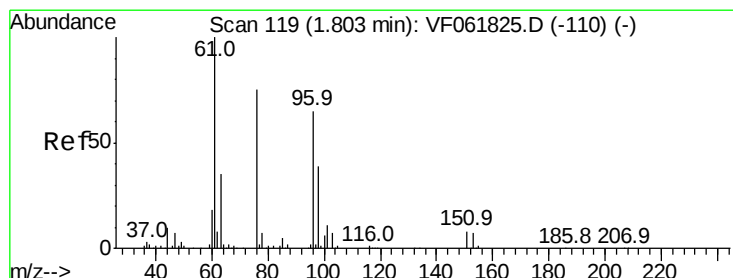
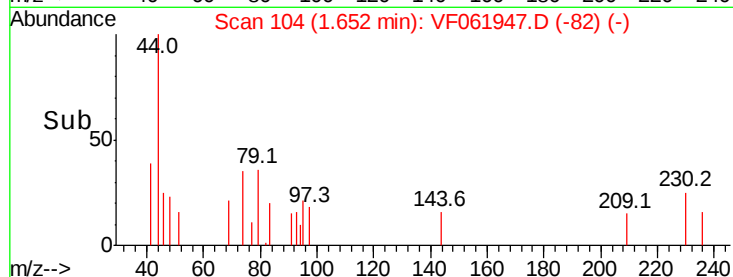
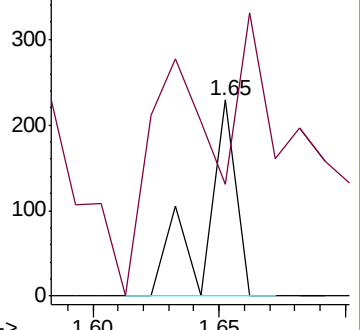
74 100

45 57.2 57.2 171.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#12

1,1-Dichloroethene

Concen: 1.157 ug/l

RT: 1.79 min Scan# 118

Delta R.T. -0.01 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

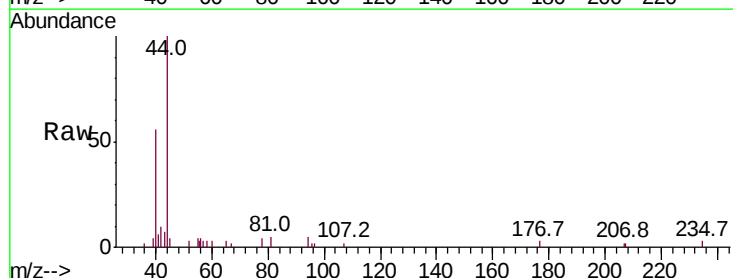
Tgt Ion: 96 Resp: 140

Ion Ratio Lower Upper

96 100

61 0.0 122.5 183.7#

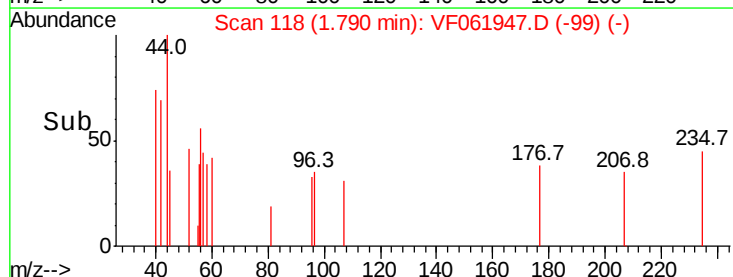
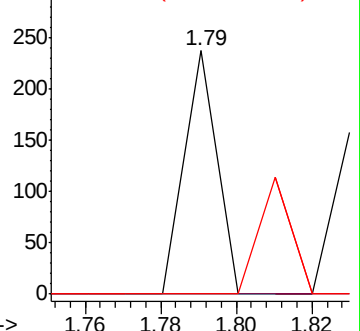
98 0.0 47.1 70.7#

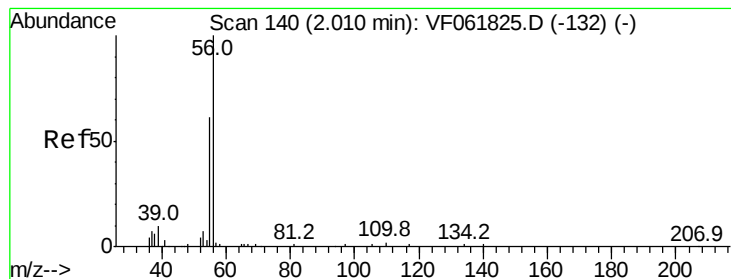


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#13

Acrolein

Concen: 67.355 ug/l

RT: 1.88 min Scan# 127

Delta R.T. -0.13 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampled :

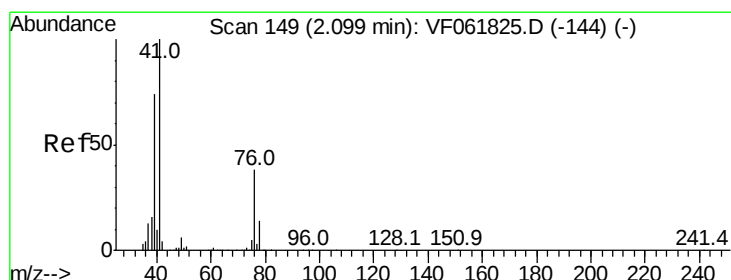
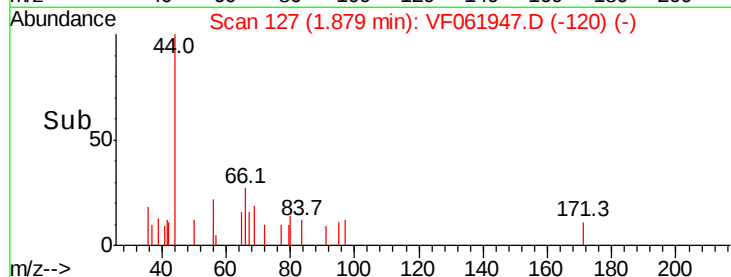
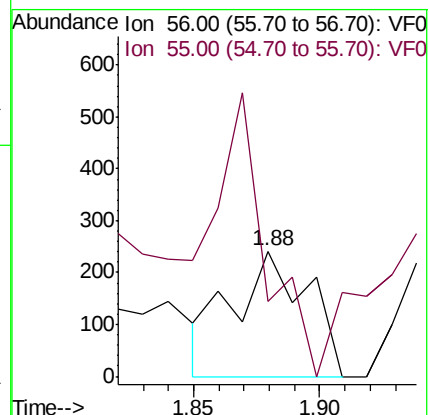
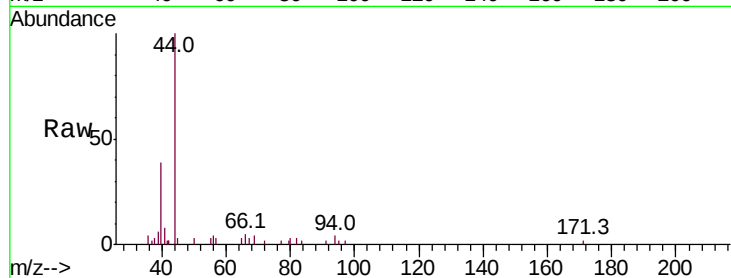
RBR200036

Tot Ion: 56 Resp: 499

Ion Ratio Lower Upper

56 100

55 59.8 51.3 76.9



#14

Allyl chloride

Concen: 1.726 ug/l

RT: 2.04 min Scan# 143

Delta R.T. -0.06 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

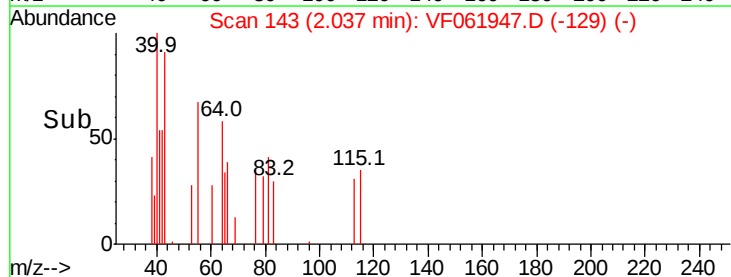
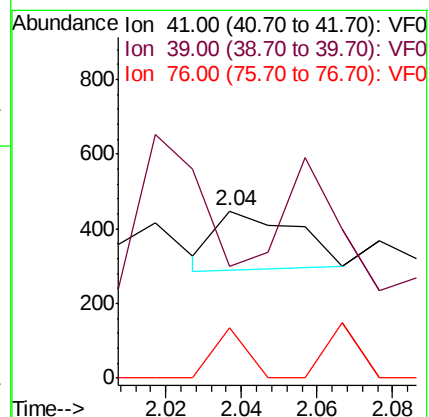
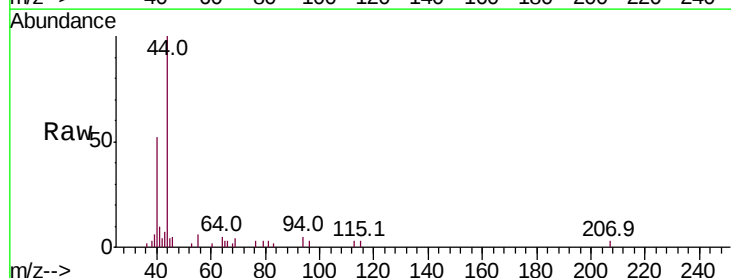
Tgt Ion: 41 Resp: 230

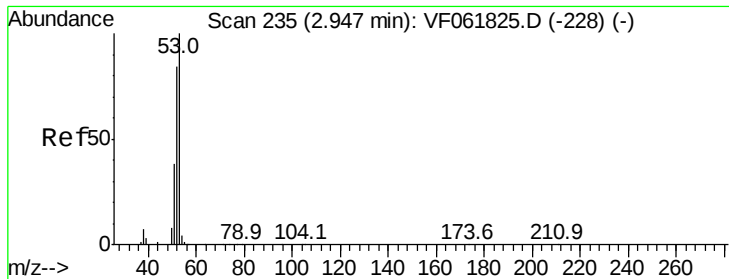
Ion Ratio Lower Upper

41 100

39 66.9 59.6 89.4

76 29.8 32.3 48.5#





#15

Acrylonitrile

Concen: 12.891 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.00 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampleId :

RBR200036

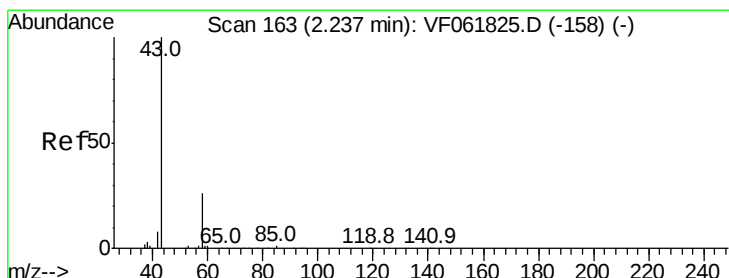
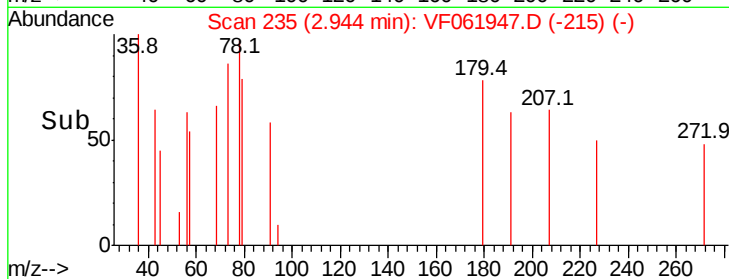
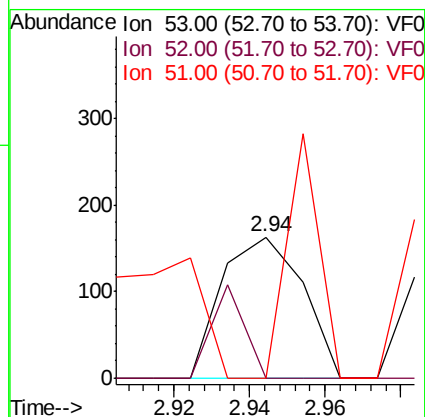
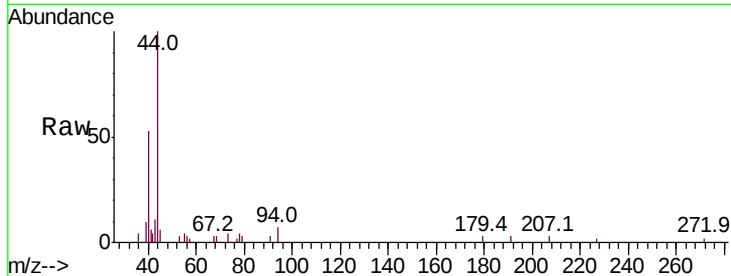
Tot Ion: 53 Resp: 240

Ion Ratio Lower Upper

53 100

52 0.0 67.4 101.0#

51 0.0 30.7 46.1#



#16

Acetone

Concen: 67.755 ug/l

RT: 2.26 min Scan# 166

Delta R.T. 0.03 min

Lab File: VF061947.D

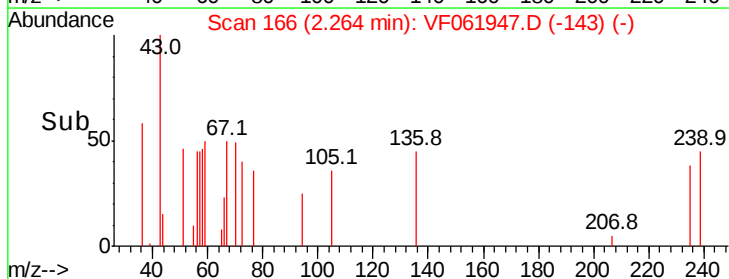
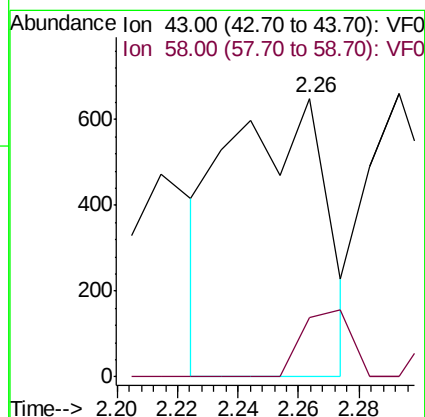
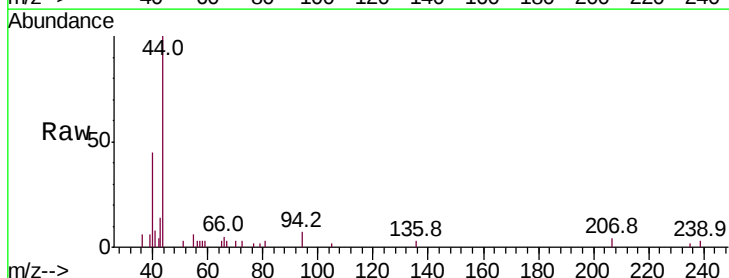
Acq: 14 Mar 2019 19:16

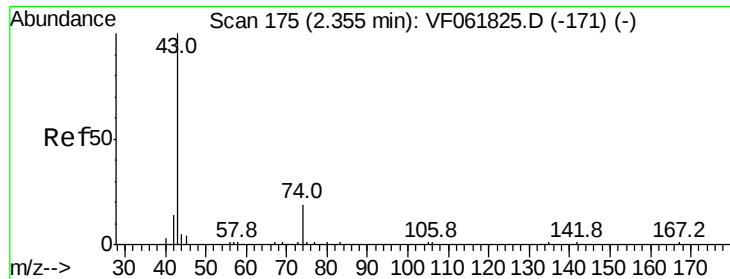
Tgt Ion: 43 Resp: 1462

Ion Ratio Lower Upper

43 100

58 21.4 20.3 30.5

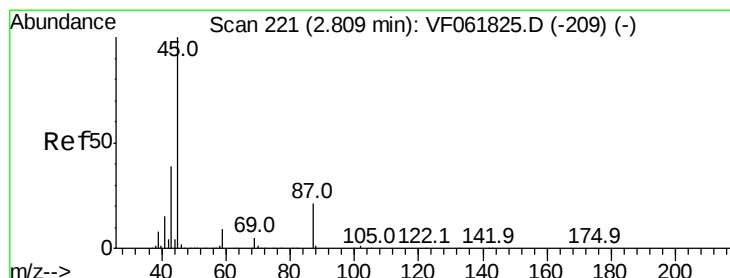
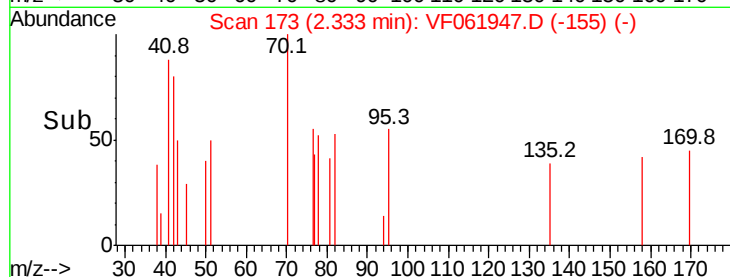
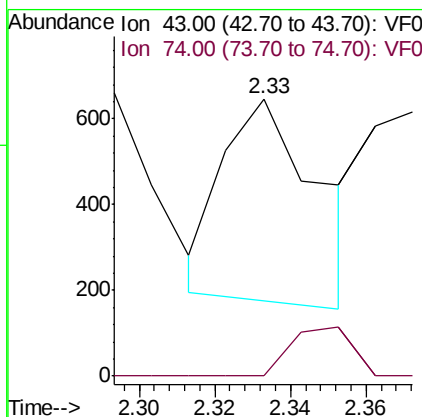
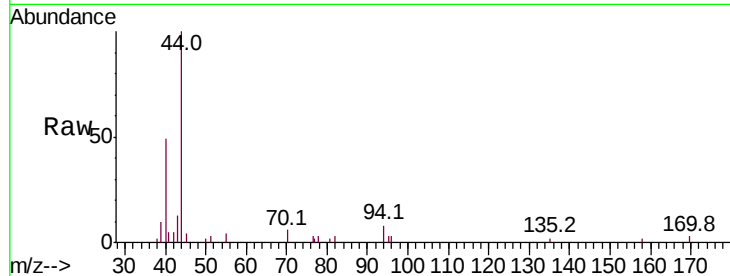




#18
Methyl Acetate
Concen: 16.930 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.02 min
Lab File: VF061947.D
Acq: 14 Mar 2019 19:16

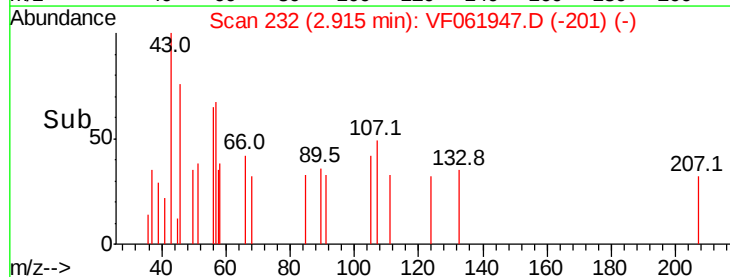
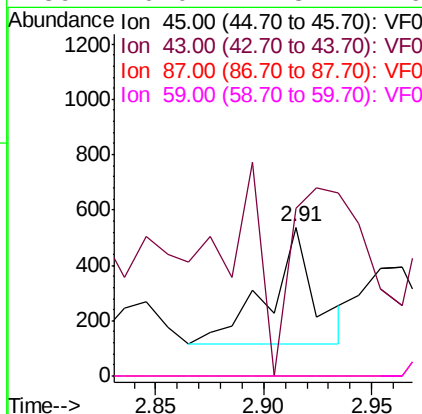
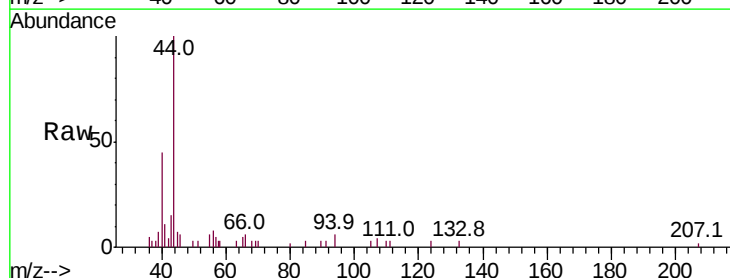
Instrument :
MSVOA_F
ClientSampleId :
RBR200036

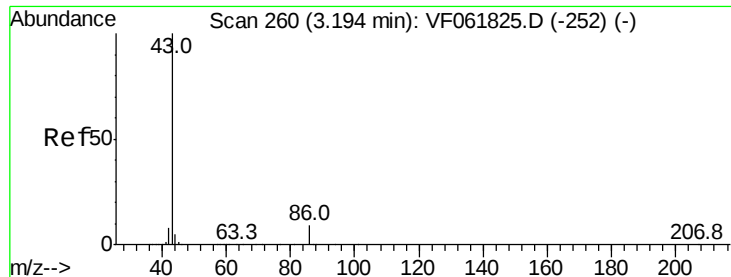
Tot Ion: 43 Resp: 811
Ion Ratio Lower Upper
43 100
74 0.0 13.2 19.8#



#22
Diisopropyl ether
Concen: 1.829 ug/l
RT: 2.91 min Scan# 232
Delta R.T. 0.11 min
Lab File: VF061947.D
Acq: 14 Mar 2019 19:16

Tgt Ion: 45 Resp: 634
Ion Ratio Lower Upper
45 100
43 112.6 31.8 47.8#
87 0.0 17.1 25.7#
59 0.0 7.8 11.6#





#23

Vinyl Acetate

Concen: 3.810 ug/l

RT: 3.14 min Scan# 255

Delta R.T. -0.05 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampleId :

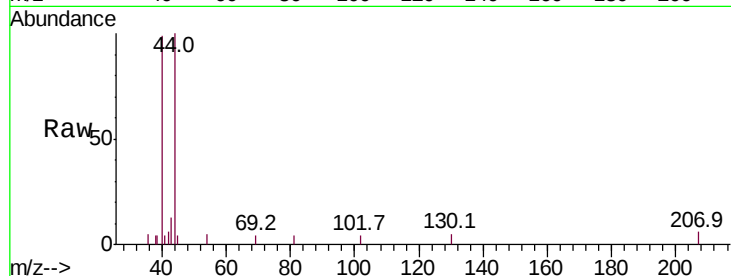
RBR200036

Tot Ion: 43 Resp: 590

Ion Ratio Lower Upper

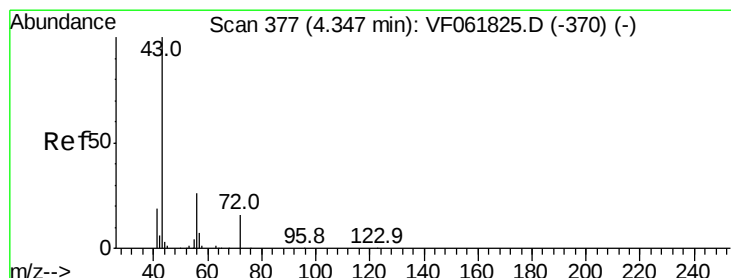
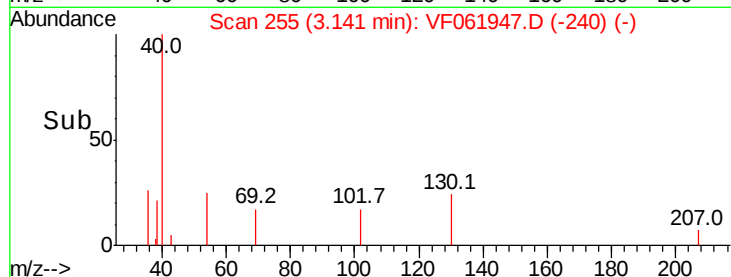
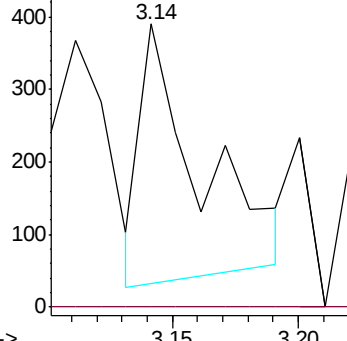
43 100

86 0.0 7.0 10.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 4.580 ug/l

RT: 4.35 min Scan# 378

Delta R.T. 0.01 min

Lab File: VF061947.D

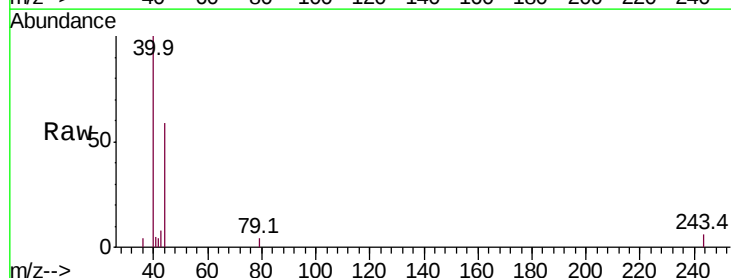
Acq: 14 Mar 2019 19:16

Tgt Ion: 43 Resp: 201

Ion Ratio Lower Upper

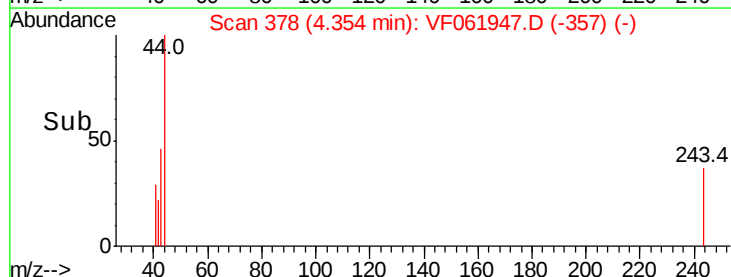
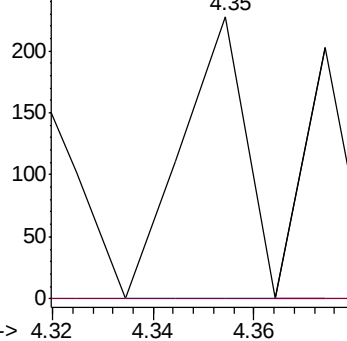
43 100

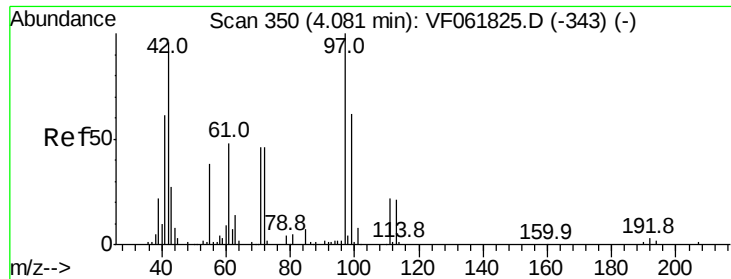
72 0.0 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 9.615 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.03 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampleId :

RBR200036

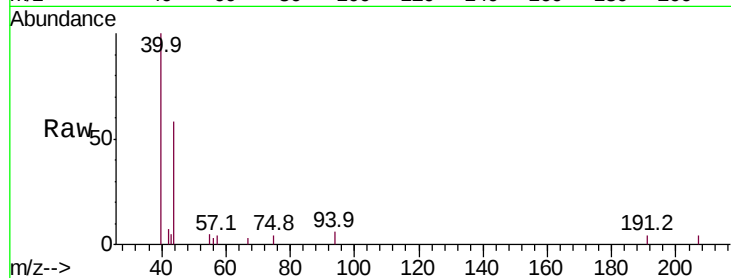
Tot Ion: 42 Resp: 182

Ion Ratio Lower Upper

42 100

72 0.0 34.4 51.6#

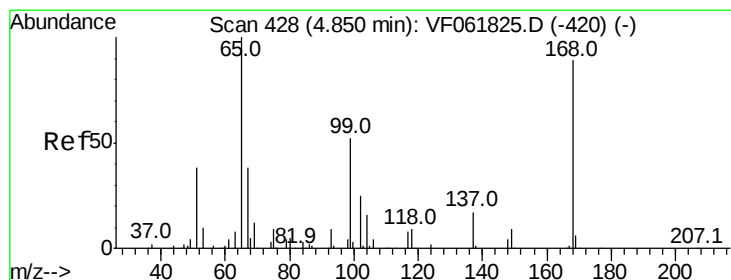
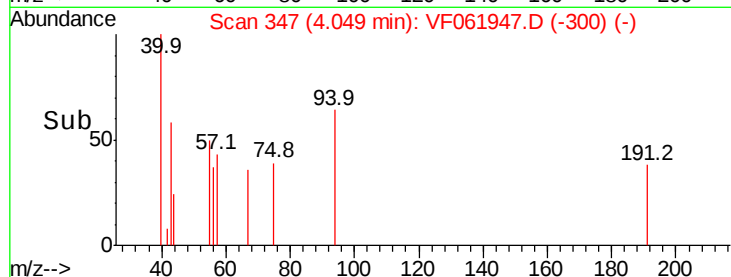
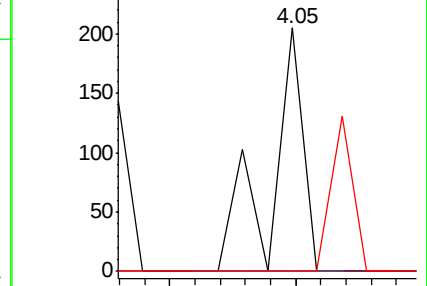
71 42.9 34.6 52.0



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



#33

1,2-Dichloroethane-d4

Concen: 25.648 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF061947.D

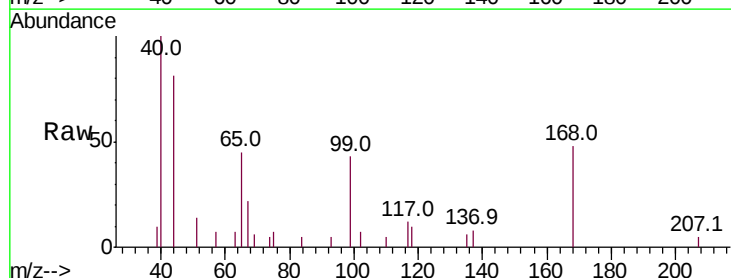
Acq: 14 Mar 2019 19:16

Tgt Ion: 65 Resp: 2642

Ion Ratio Lower Upper

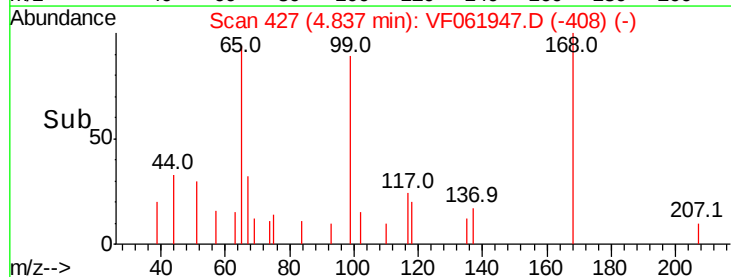
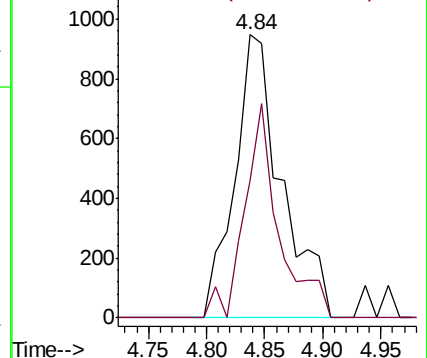
65 100

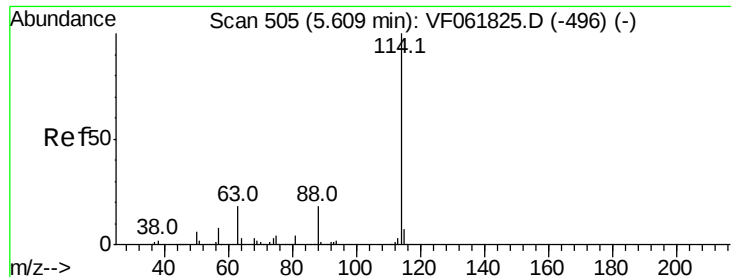
67 48.8 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.01 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampleId :

RBR200036

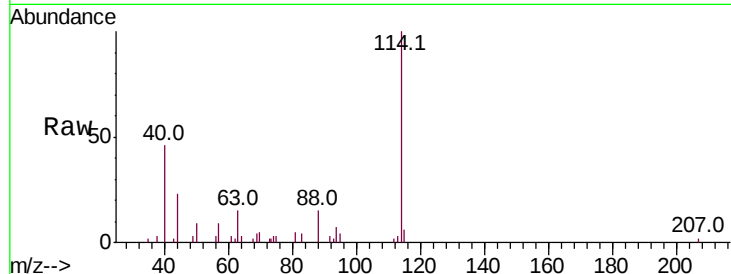
Tot Ion:114 Resp: 16918

Ion Ratio Lower Upper

114 100

63 15.3 0.0 35.6

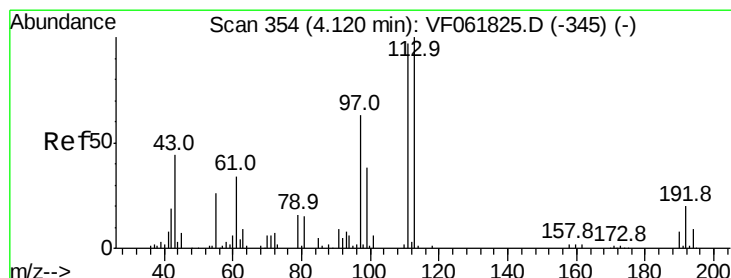
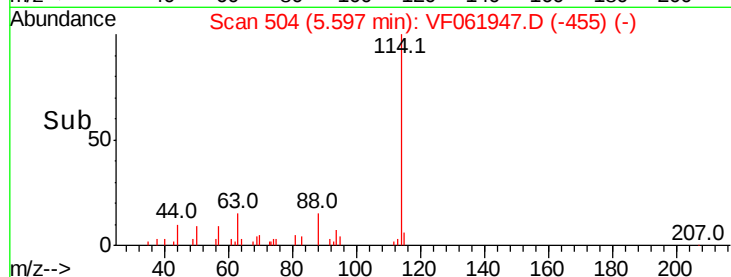
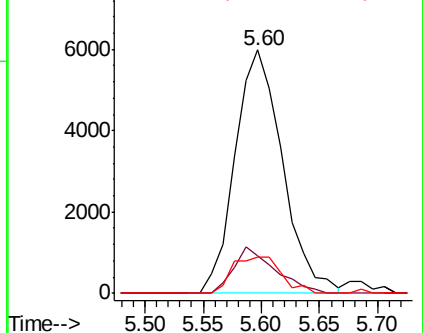
88 14.9 0.0 35.6



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: 46.017 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

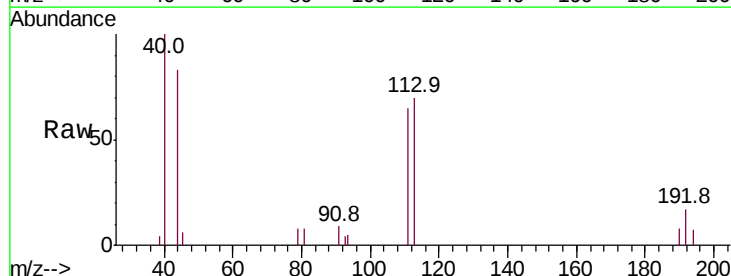
Tgt Ion:113 Resp: 5433

Ion Ratio Lower Upper

113 100

111 93.7 77.6 116.4

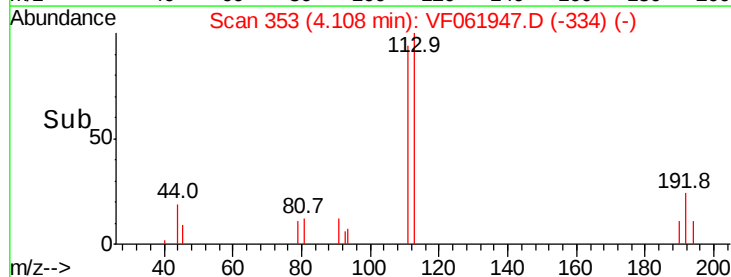
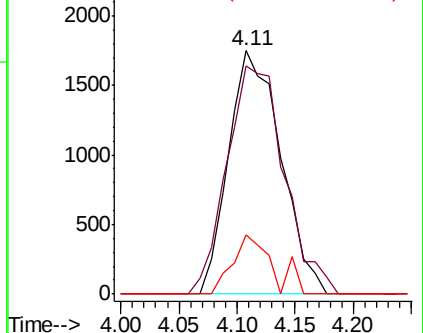
192 24.2 15.9 23.9#

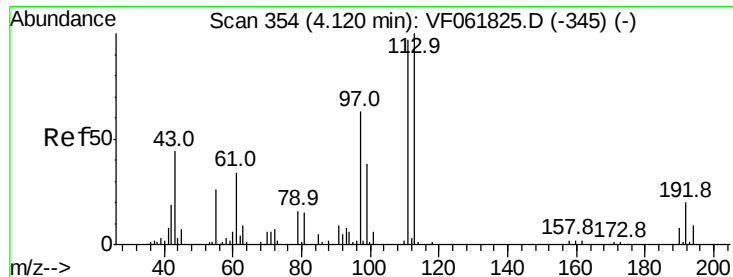


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

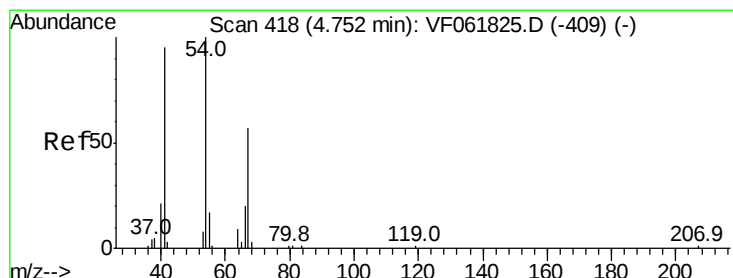
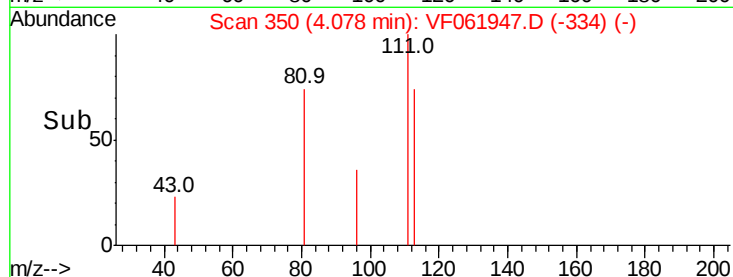
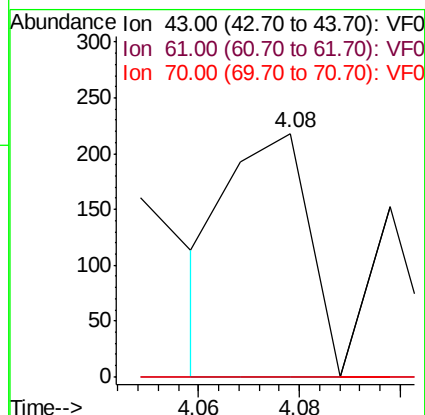
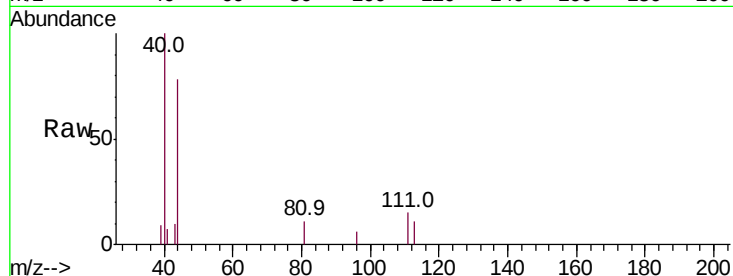




#37
 Ethyl Acetate
 Concen: 3.623 ug/l
 RT: 4.08 min Scan# 350
 Delta R.T. -0.04 min
 Lab File: VF061947.D
 Acq: 14 Mar 2019 19:16

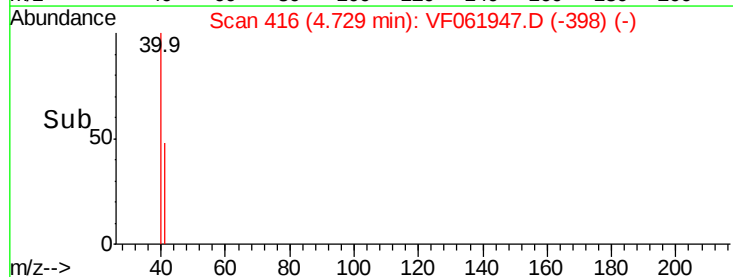
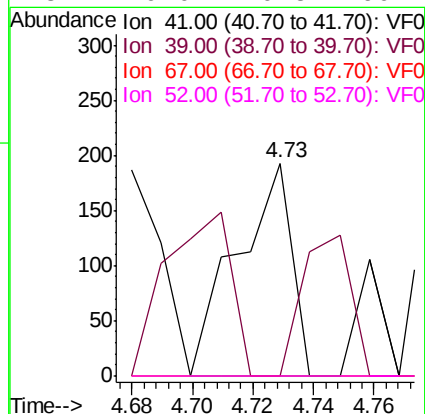
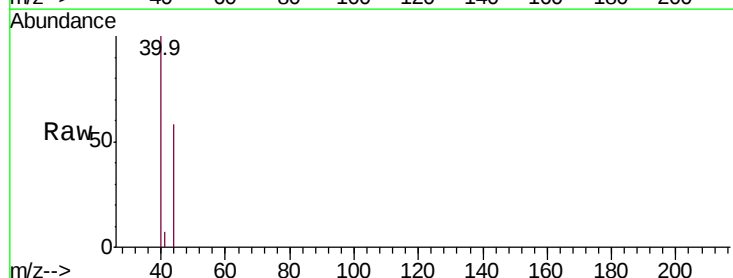
Instrument :
 MSVOA_F
 ClientSampleId :
 RBR200036

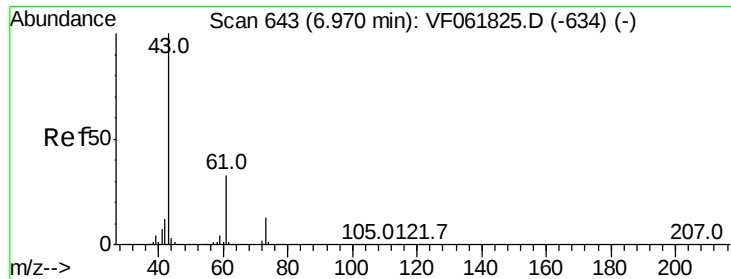
Tot Ion: 43 Resp: 243
 Ion Ratio Lower Upper
 43 100
 61 0.0 60.7 91.1#
 70 0.0 10.6 15.8#



#41
 Methacrylonitrile
 Concen: 6.666 ug/l
 RT: 4.73 min Scan# 416
 Delta R.T. -0.02 min
 Lab File: VF061947.D
 Acq: 14 Mar 2019 19:16

Tgt Ion: 41 Resp: 245
 Ion Ratio Lower Upper
 41 100
 39 0.0 43.0 64.6#
 67 0.0 47.8 71.8#
 52 0.0 40.5 60.7#





#43

Isopropyl Acetate

Concen: 1.923 ug/l

RT: 6.98 min Scan# 644

Delta R.T. 0.01 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampleId :

RBR200036

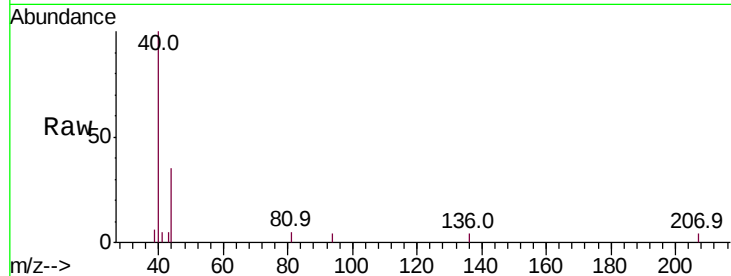
Tot Ion: 43 Resp: 159

Ion Ratio Lower Upper

43 100

61 0.0 26.1 39.1#

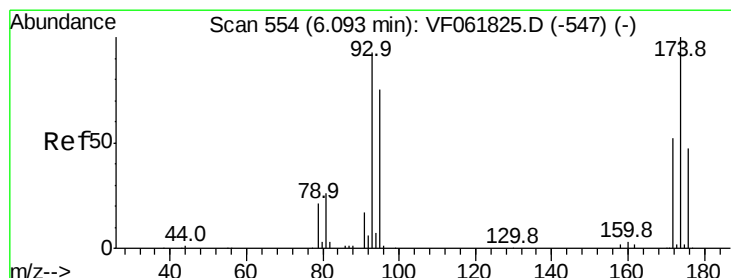
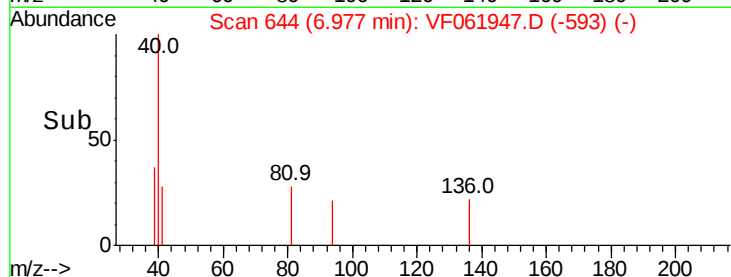
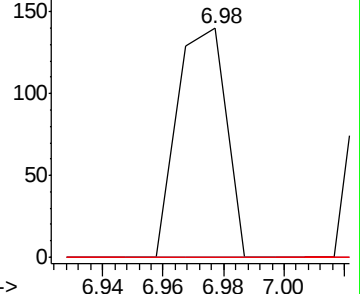
87 0.0 0.0 0.0



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



#46

Dibromomethane

Concen: 1.024 ug/l

RT: 5.99 min Scan# 544

Delta R.T. -0.10 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

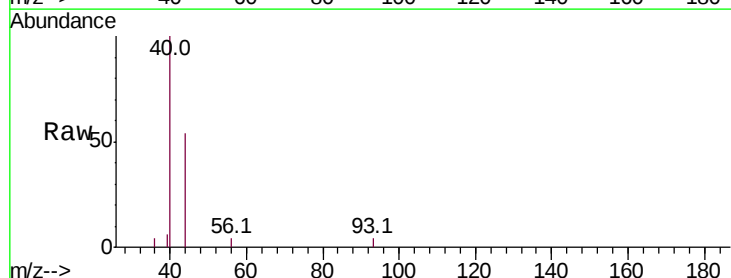
Tgt Ion: 93 Resp: 64

Ion Ratio Lower Upper

93 100

95 0.0 64.4 96.6#

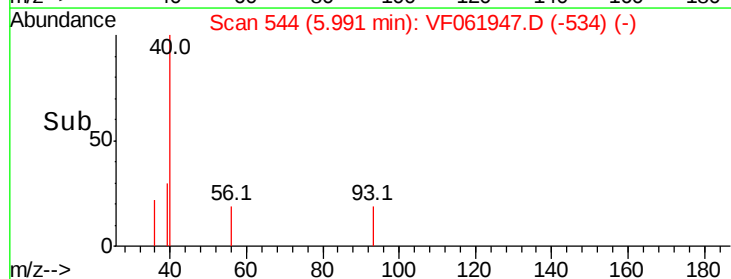
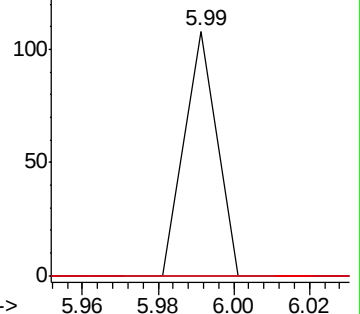
174 0.0 85.8 128.6#

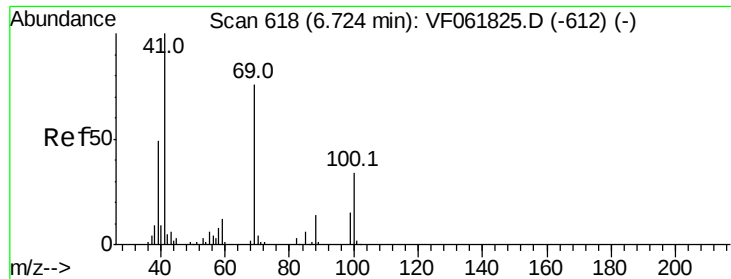


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

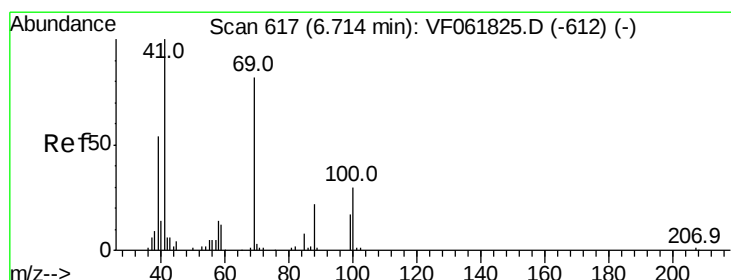
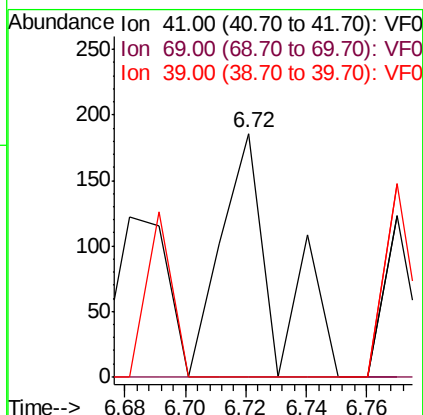
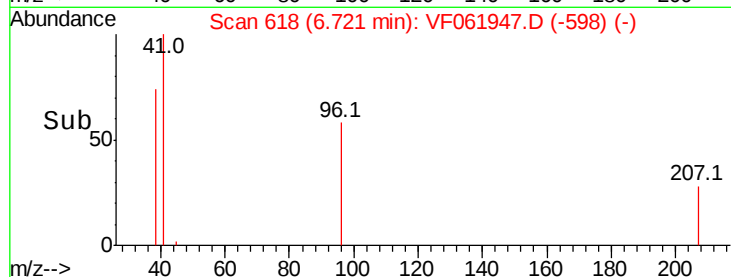
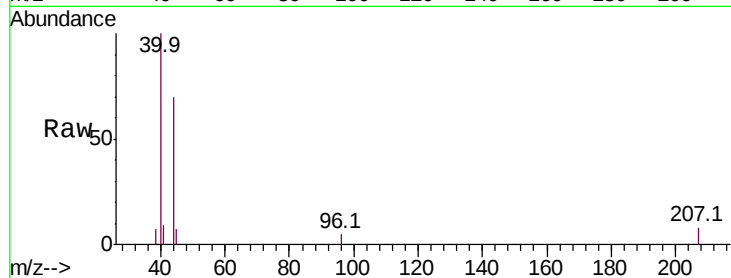




#48
Methvl methacrylate
Concen: 4.472 ug/l
RT: 6.72 min Scan# 618
Delta R.T. -0.00 min
Lab File: VF061947.D
Acq: 14 Mar 2019 19:16

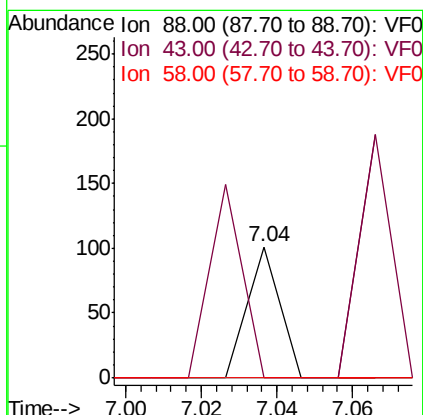
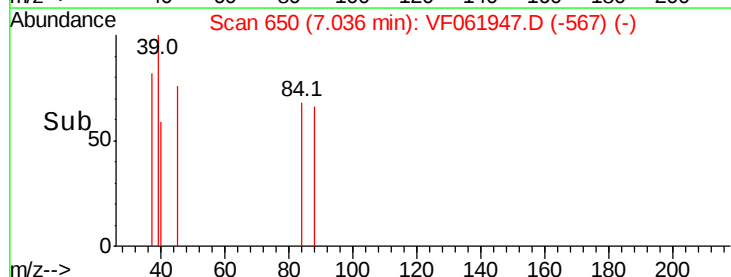
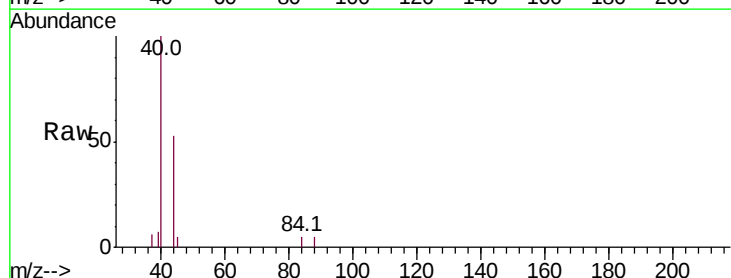
Instrument :
MSVOA_F
ClientSampleId :
RBR200036

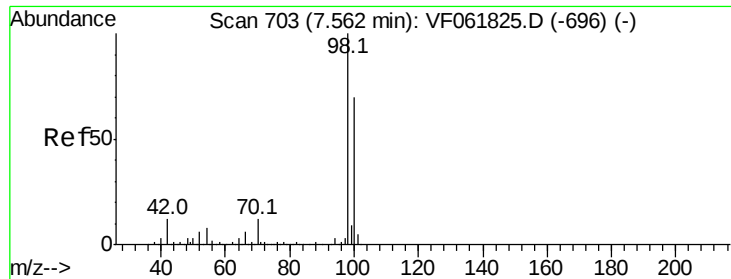
Tot Ion: 41 Resp: 234
Ion Ratio Lower Upper
41 100
69 0.0 60.4 90.6#
39 0.0 39.7 59.5#



#49
1,4-Dioxane
Concen: 125.428 ug/l
RT: 7.04 min Scan# 650
Delta R.T. 0.32 min
Lab File: VF061947.D
Acq: 14 Mar 2019 19:16

Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 0.0 28.4 42.6#
58 0.0 50.7 76.1#





#50

Toluene-d8

Concen: 49.814 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampleId :

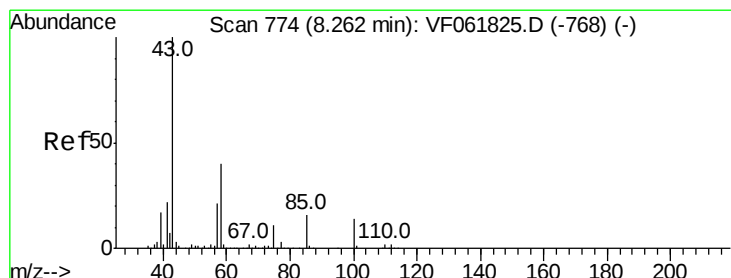
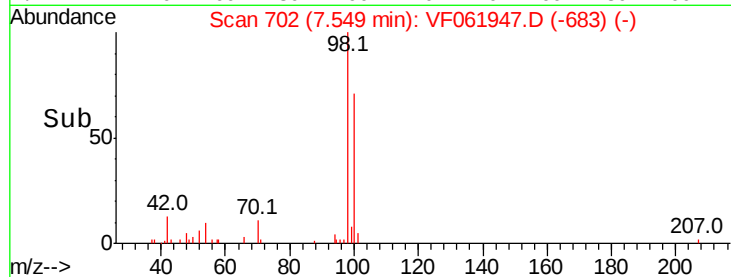
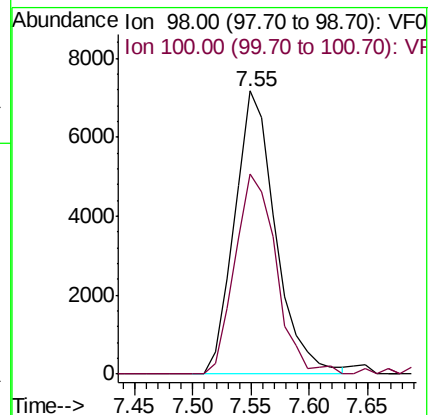
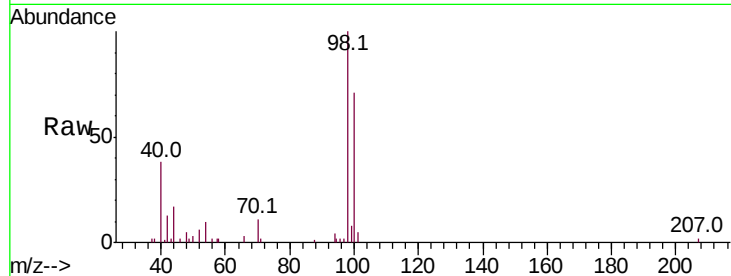
RBR200036

Tot Ion: 98 Resp: 17481

Ion Ratio Lower Upper

98 100

100 70.8 56.0 84.0



#51

4-Methyl-2-Pentanone

Concen: 7.437 ug/l

RT: 8.22 min Scan# 770

Delta R.T. -0.04 min

Lab File: VF061947.D

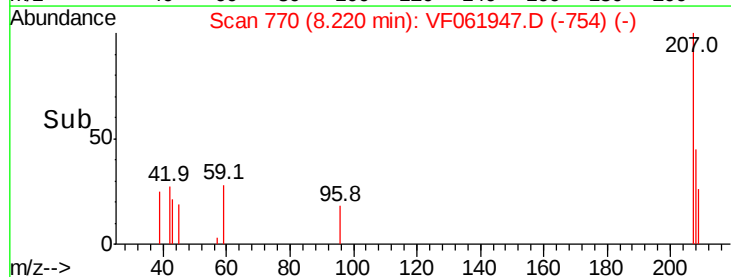
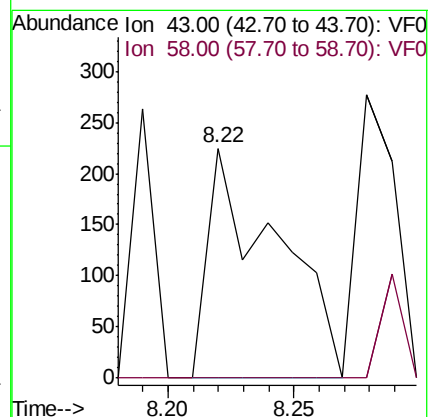
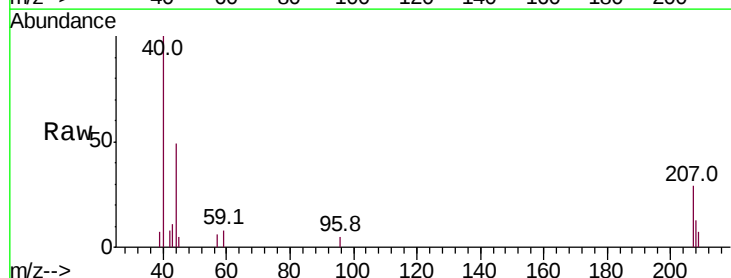
Acq: 14 Mar 2019 19:16

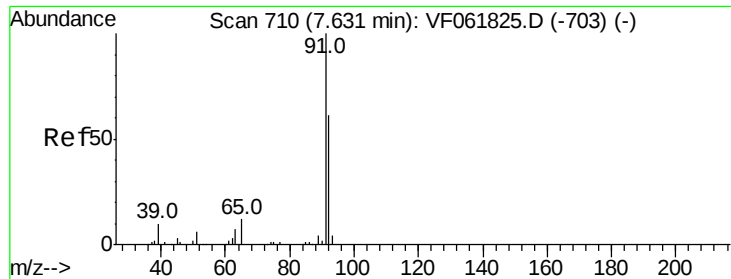
Tgt Ion: 43 Resp: 425

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.8#





#52

Toluene

Concen: 3.885 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.00 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampleId :

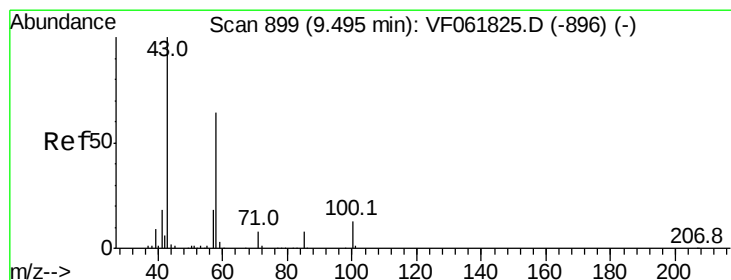
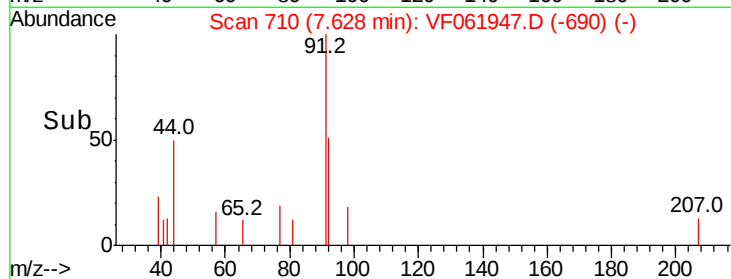
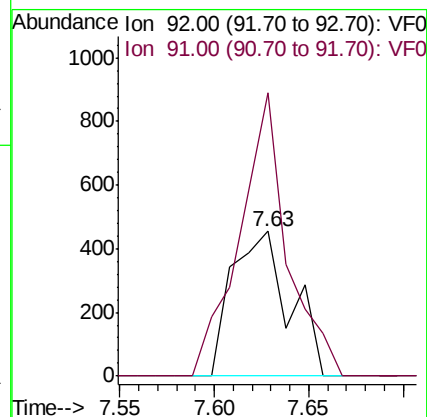
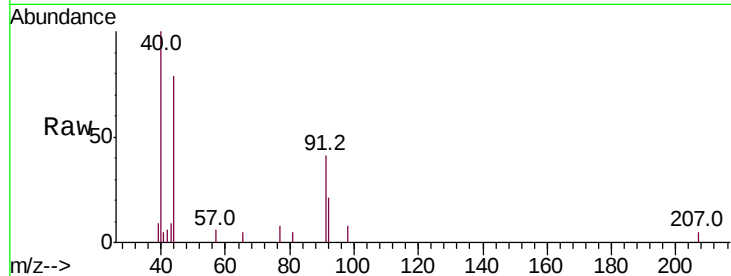
RBR200036

Tot Ion: 92 Resp: 960

Ion Ratio Lower Upper

92 100

91 195.8 132.0 198.0



#59

2-Hexanone

Concen: 3.372 ug/l

RT: 9.52 min Scan# 902

Delta R.T. 0.03 min

Lab File: VF061947.D

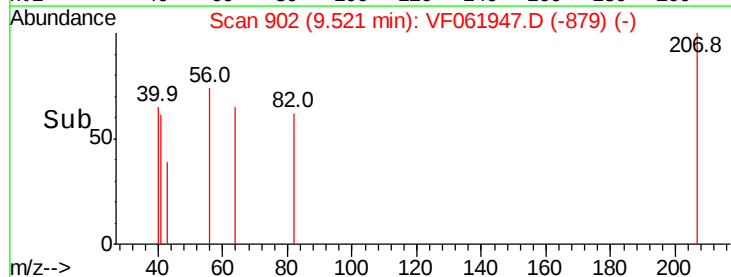
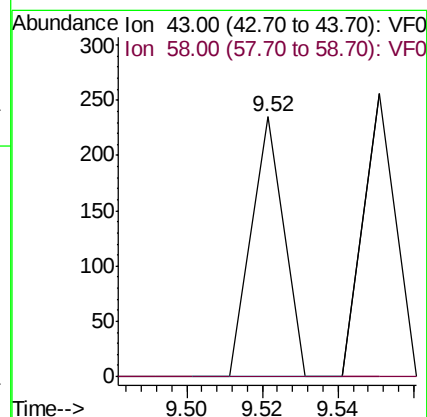
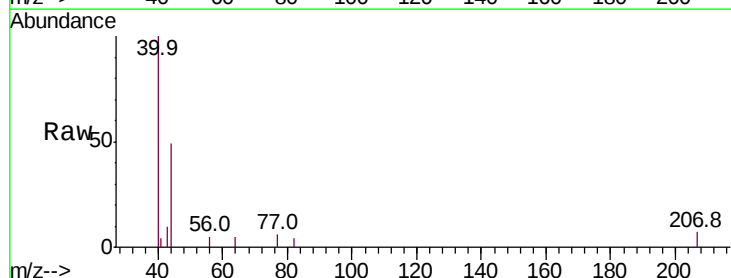
Acq: 14 Mar 2019 19:16

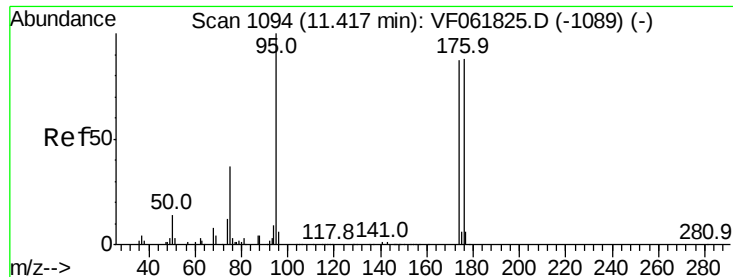
Tgt Ion: 43 Resp: 139

Ion Ratio Lower Upper

43 100

58 0.0 28.8 86.4#





#62

4-Bromofluorobenzene

Concen: 34.918 ug/l

RT: 11.41 min Scan# 1094

Delta R.T. -0.00 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampleId :

RBR200036

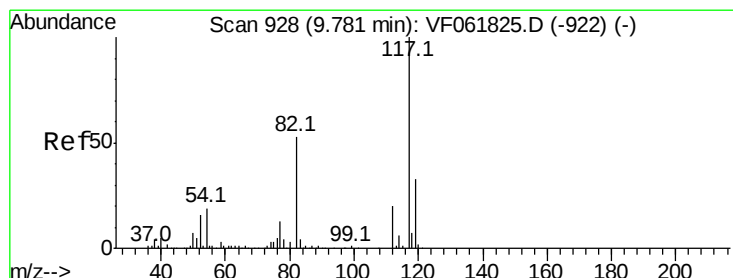
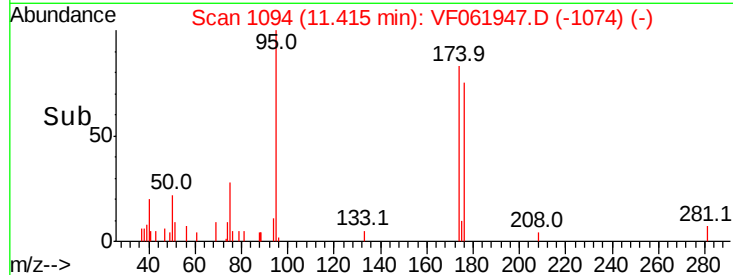
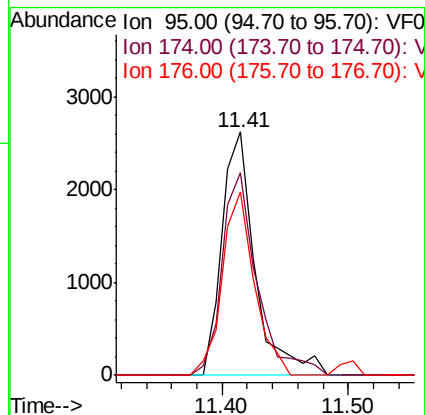
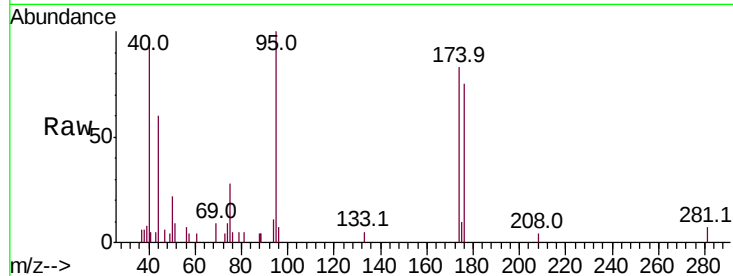
Tot Ion: 95 Resp: 4800

Ion Ratio Lower Upper

95 100

174 83.5 0.0 174.0

176 75.1 0.0 175.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.00 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

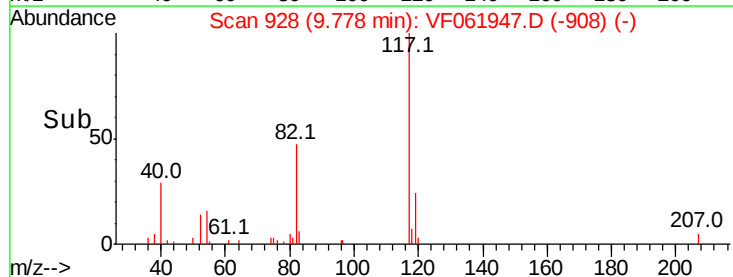
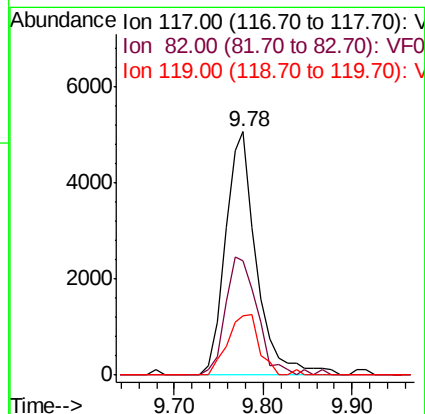
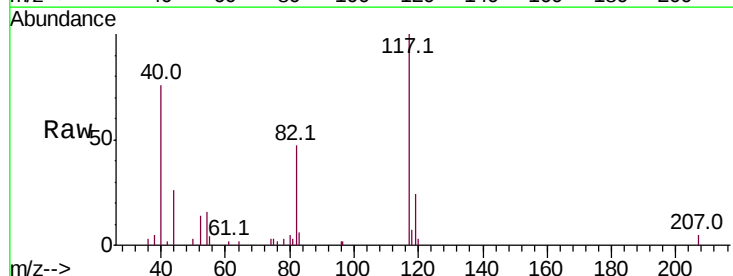
Tgt Ion: 117 Resp: 12389

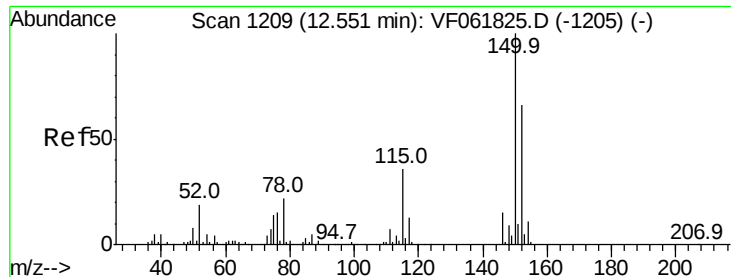
Ion Ratio Lower Upper

117 100

82 46.9 42.6 63.8

119 24.2 26.0 39.0#



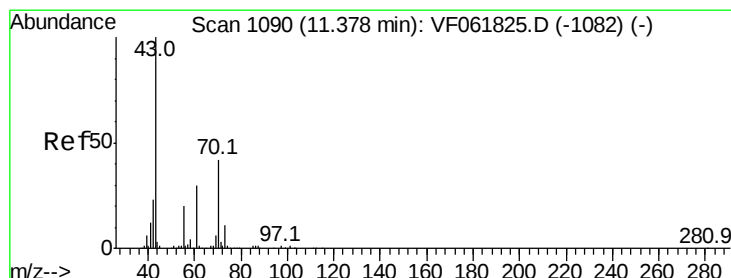
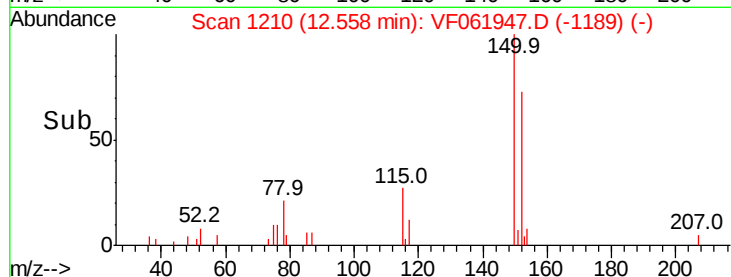
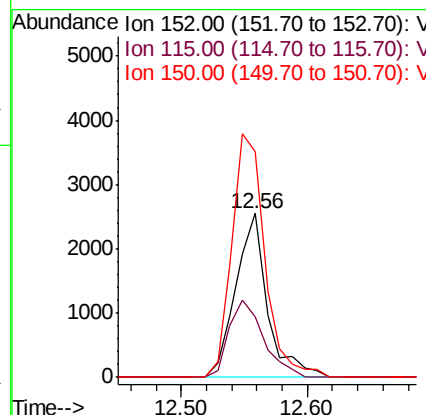
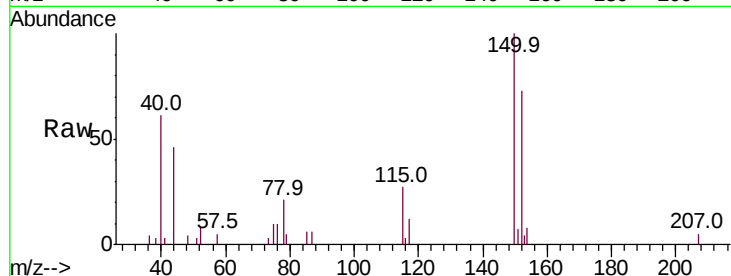


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.01 min
Lab File: VF061947.D
Acq: 14 Mar 2019 19:16

Instrument :
MSVOA_F
ClientSampleId :
RBR200036

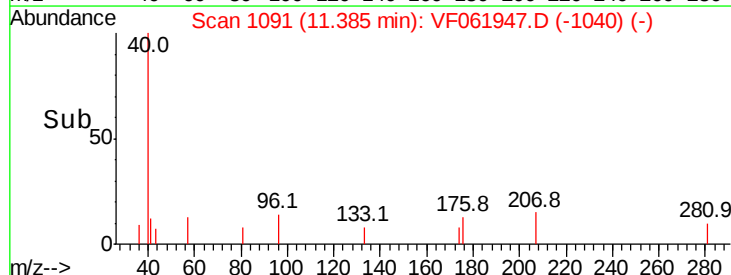
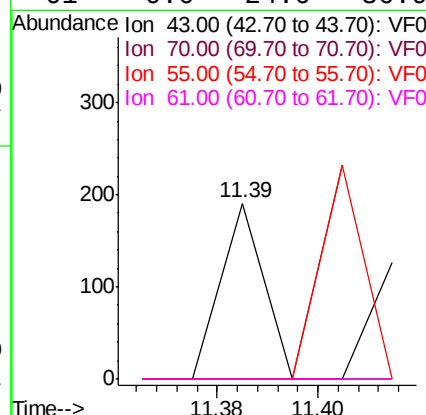
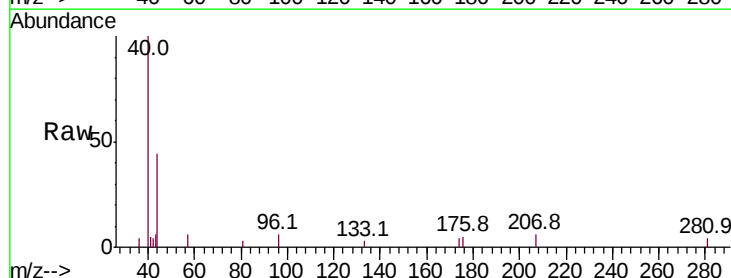
Tot Ion:152 Resp: 4432
Ion Ratio Lower Upper
152 100
115 36.8 27.7 83.1
150 137.9 0.0 304.2

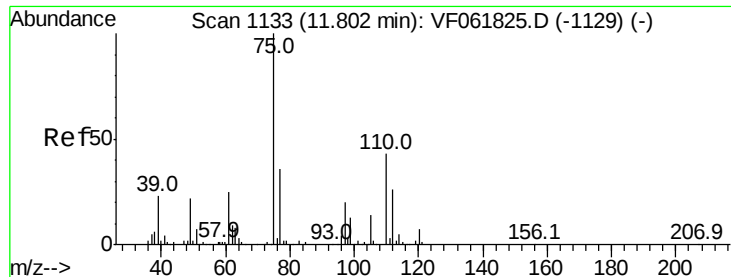


#74

N-ethyl acetate
Concen: 1.609 ug/l
RT: 11.39 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VF061947.D
Acq: 14 Mar 2019 19:16

Tgt Ion: 43 Resp: 113
Ion Ratio Lower Upper
43 100
70 0.0 33.4 50.0#
55 0.0 16.3 24.5#
61 0.0 24.0 36.0#





#76

1,2,3-Trichloropropane

Concen: 2.138 ug/l

RT: 11.96 min Scan# 1149

Delta R.T. 0.15 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Instrument :

MSVOA_F

ClientSampled :

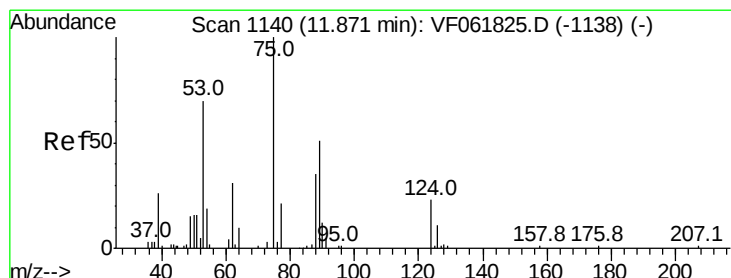
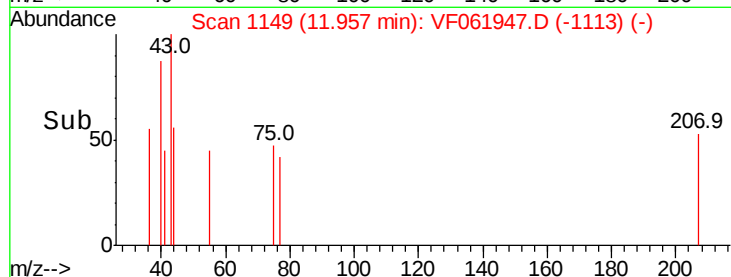
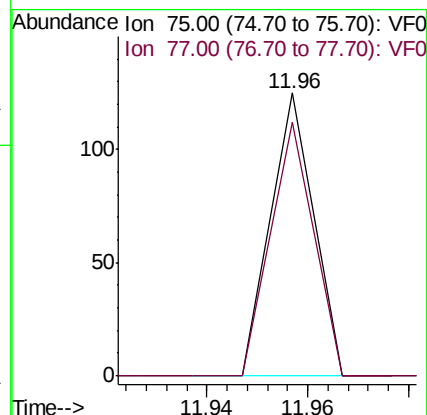
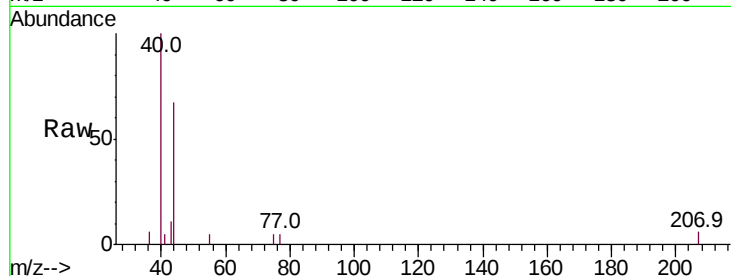
RBR200036

Tot Ion: 75 Resp: 74

Ion Ratio Lower Upper

75 100

77 89.6 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 4.676 ug/l

RT: 11.96 min Scan# 1149

Delta R.T. 0.09 min

Lab File: VF061947.D

Acq: 14 Mar 2019 19:16

Tgt Ion: 75 Resp: 74

Ion Ratio Lower Upper

75 100

53 0.0 58.6 88.0#

89 0.0 41.4 62.0#

