

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031419\
 Data File : VF061945.D
 Acq On : 14 Mar 2019 18:19
 Operator : VA/AP
 Sample : K1905-05
 Misc : 4.67µ/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200050

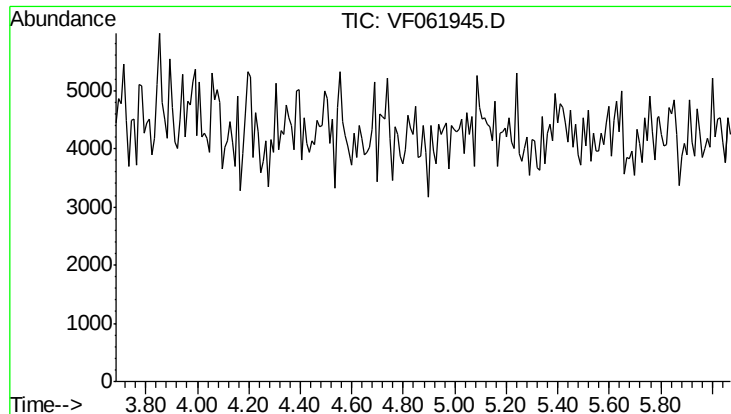
Quant Time: Mar 15 01:18:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.88
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.61
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.78
72) 1,4-Dichlorobenzene-d4	12.58	152	153	50.00	ug/l	0.03

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	0.00	113	0	0.00	ug/l	
Spiked Amount 50.000			Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount 50.000			Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.41	95	231	0.00	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
73) Isopropylbenzene	11.11	105	72	6.836	ug/l #	48
74) N-amyl acetate	11.39	43	507	209.080	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	11.68	83	60	34.273	ug/l #	23
78) n-propylbenzene	11.60	91	143	12.022	ug/l #	54
79) 2-Chlorotoluene	11.71	91	63	9.264	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.79	105	71	8.396	ug/l #	24
82) 4-Chlorotoluene	11.90	91	62	8.913	ug/l #	41
83) tert-Butylbenzene	12.11	119	62	6.904	ug/l #	36
84) 1,2,4-Trimethylbenzene	12.20	105	80	9.650	ug/l #	26
85) sec-Butylbenzene	12.35	105	68	5.819	ug/l #	1
86) p-Isopropyltoluene	12.42	119	230	23.155	ug/l #	1
87) 1,3-Dichlorobenzene	12.43	146	60	12.465	ug/l #	26
88) 1,4-Dichlorobenzene	12.43	146	60	12.922	ug/l #	24
89) n-Butylbenzene	12.83	91	327	34.447	ug/l #	26
90) Hexachloroethane	12.89	117	66	27.604	ug/l #	24
91) 1,2-Dichlorobenzene	12.90	146	62	13.595	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.60	75	63	195.389	ug/l #	25
95) Naphthalene	14.46	128	429	75.336	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.88 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

Tot Ion: 168

Sig Exp Ratio

168 100

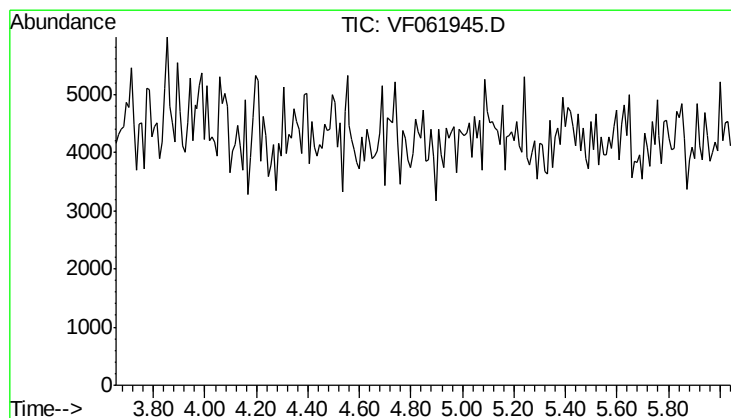
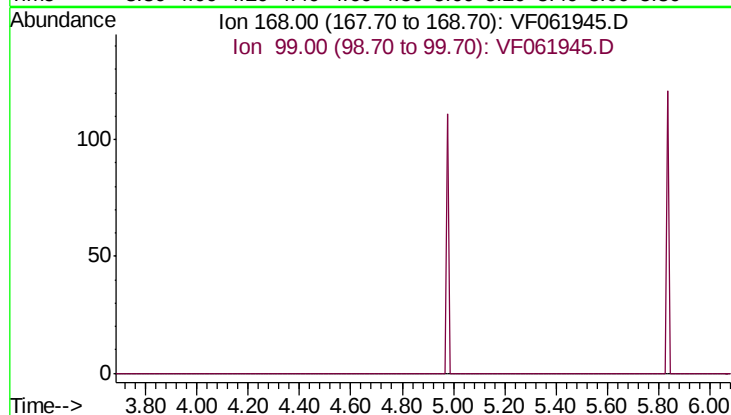
99 51.0

Instrument :

MSVOA_F

ClientSampleId :

RBR-200050



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 4.85 min

Lab File: VF061945.D

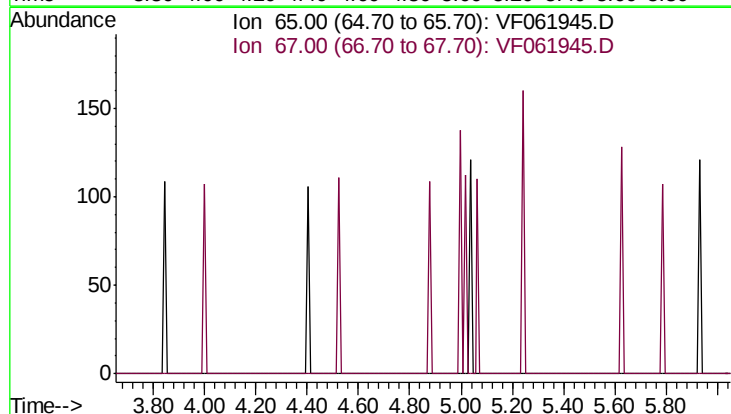
Acq: 14 Mar 2019 18:19

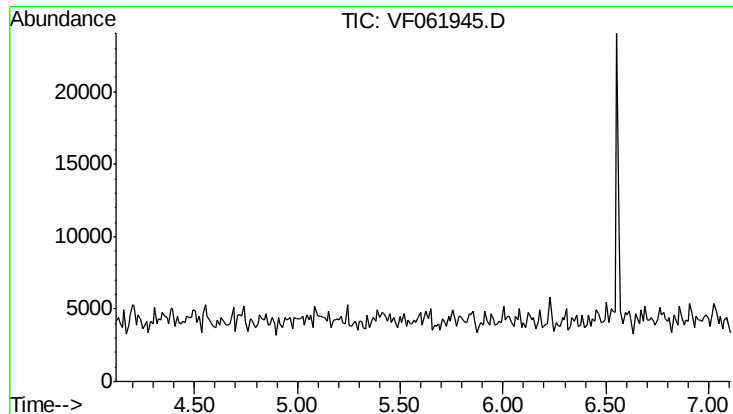
Tgt Ion: 65

Sig Exp Ratio

65 100

67 54.3

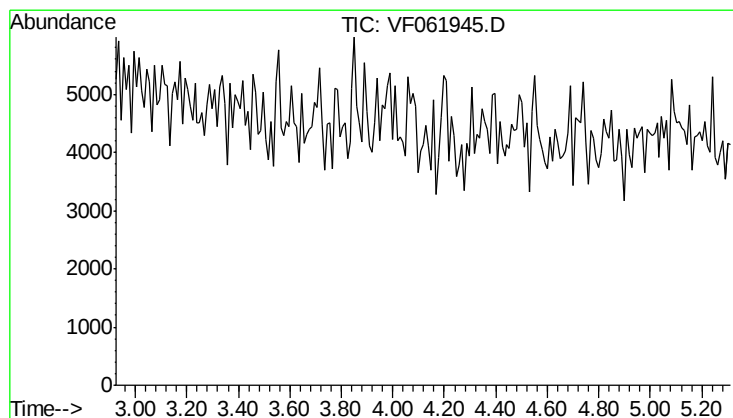
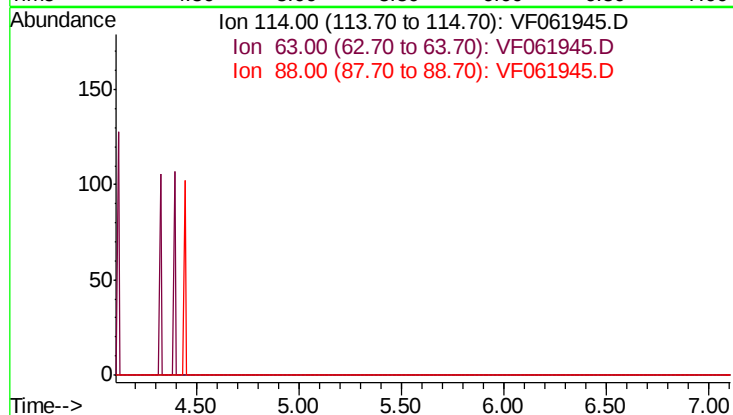




#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 5.61 min
 Lab File: VF061945.D
 Acq: 14 Mar 2019 18:19

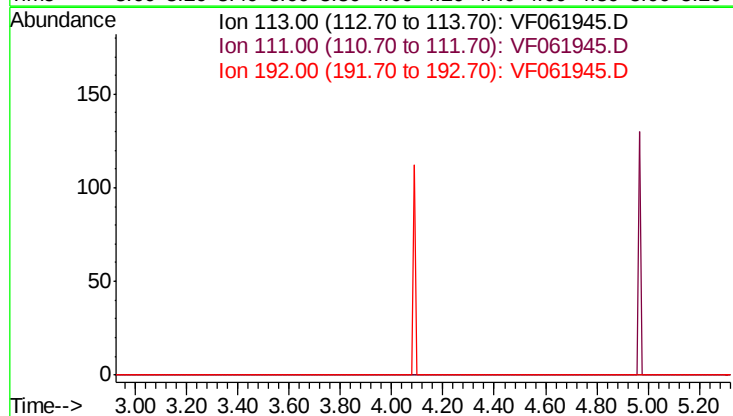
Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200050

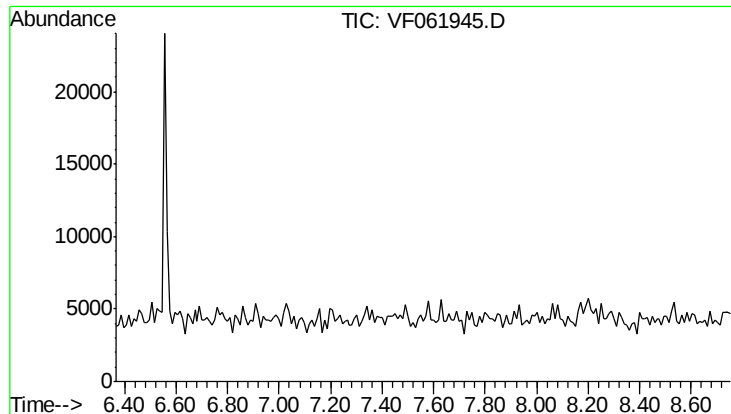
Tot Ion: 114
 Sig Exp Ratio
 114 100
 63 17.8
 88 17.8



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.12 min
 Lab File: VF061945.D
 Acq: 14 Mar 2019 18:19

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 97.0
 192 19.9



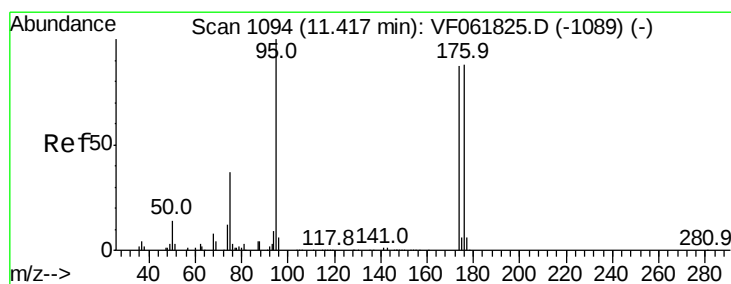
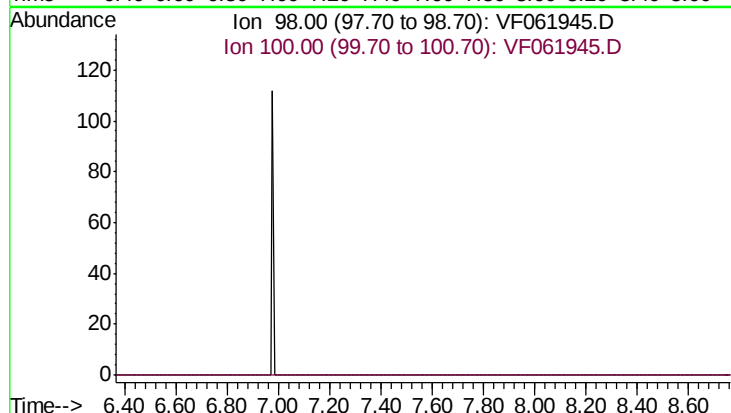


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.56 min

Lab File: VF061945.D
Acq: 14 Mar 2019 18:19

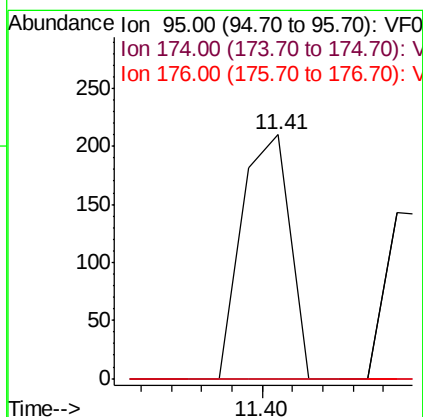
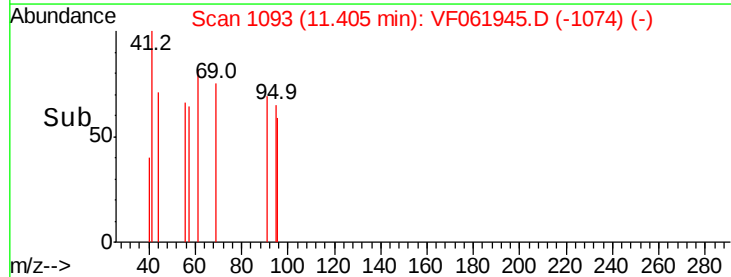
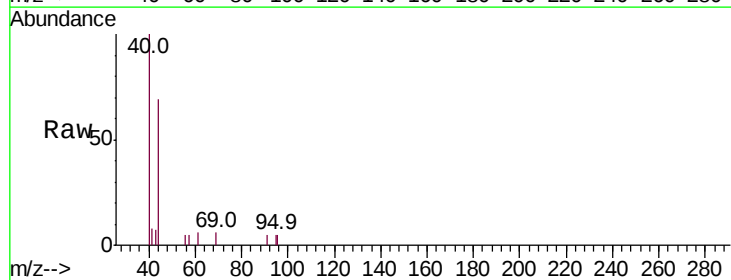
Instrument :
MSVOA_F
ClientSampleId :
RBR-200050

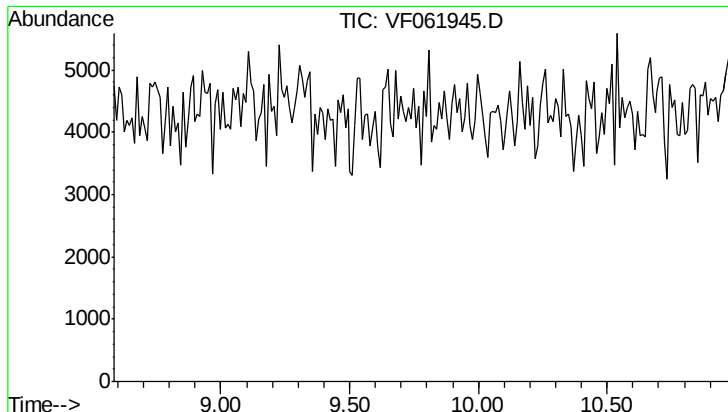
Tot Ion: 98
Sig Exp Ratio
98 100
100 70.0



#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF061945.D
Acq: 14 Mar 2019 18:19

Tgt Ion: 95 Resp: 231
Ion Ratio Lower Upper
95 100
174 0.0 0.0 174.0
176 0.0 0.0 175.2

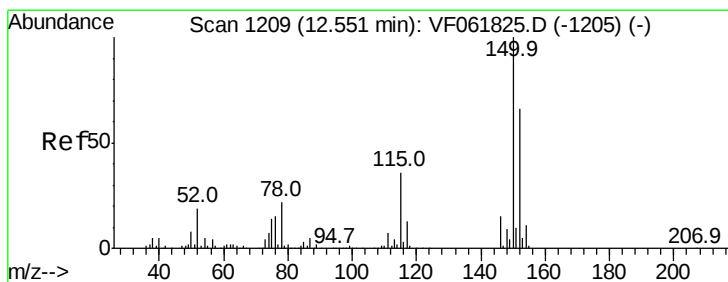
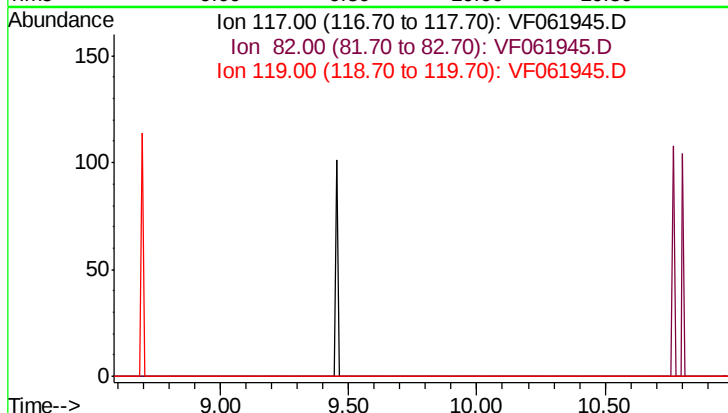




#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.78 min
 Lab File: VF061945.D
 Acq: 14 Mar 2019 18:19

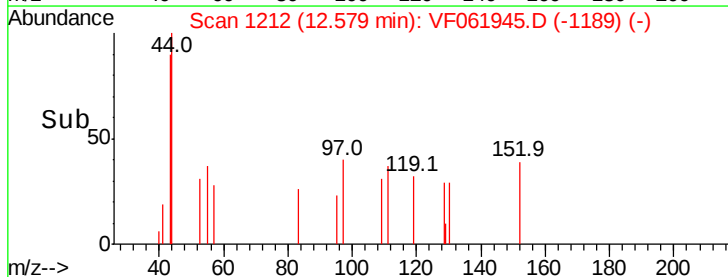
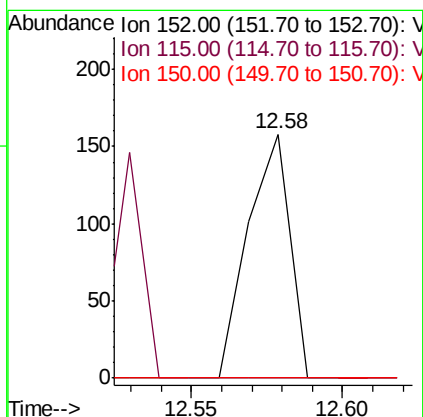
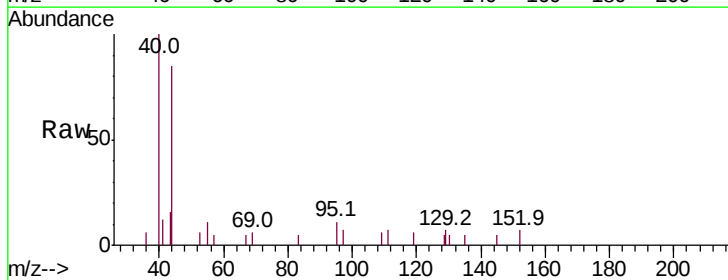
Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200050

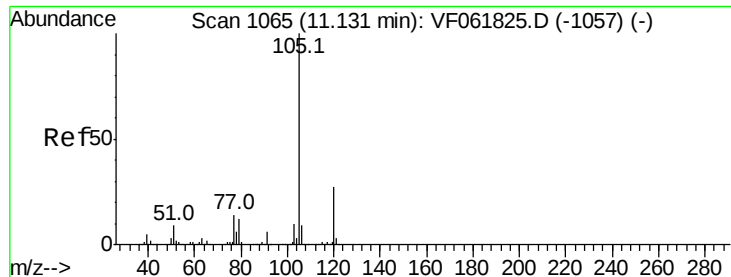
Tot Ion: 117
 Sig Exp Ratio
 117 100
 82 53.2
 119 32.5



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.58 min Scan# 1212
 Delta R.T. 0.03 min
 Lab File: VF061945.D
 Acq: 14 Mar 2019 18:19

Tgt Ion:152 Resp: 153
 Ion Ratio Lower Upper
 152 100
 115 0.0 27.7 83.1#
 150 0.0 0.0 304.2





#73

Isopropylbenzene

Concen: 6.836 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

Instrument :

MSVOA_F

ClientSampleId :

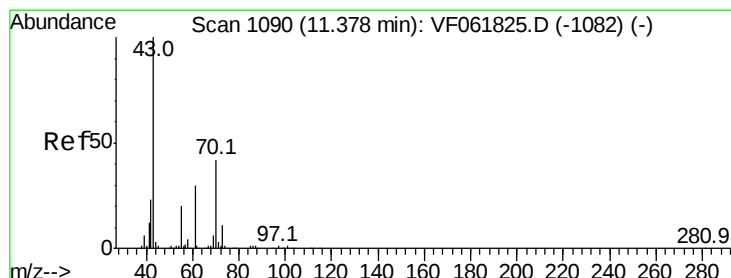
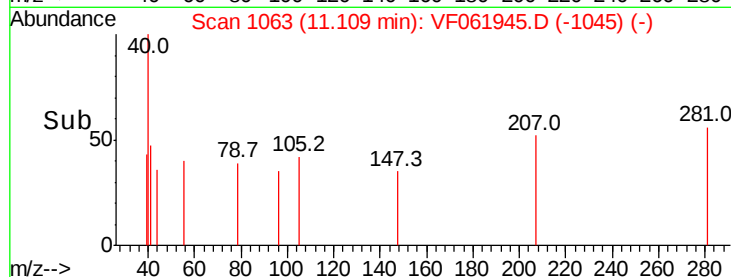
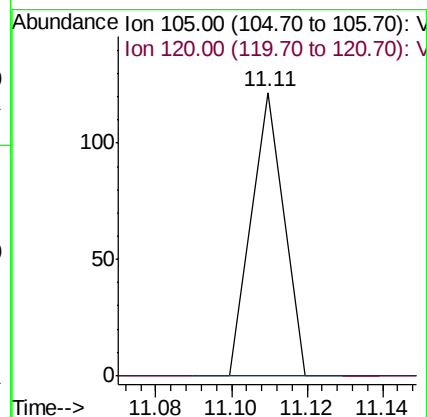
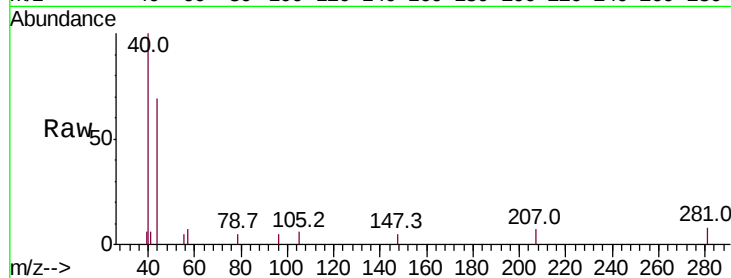
RBR-200050

Tot Ion:105 Resp: 72

Ion Ratio Lower Upper

105 100

120 0.0 13.7 41.0#



#74

N-ethyl acetate

Concen: 209.080 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

Tgt Ion: 43 Resp: 507

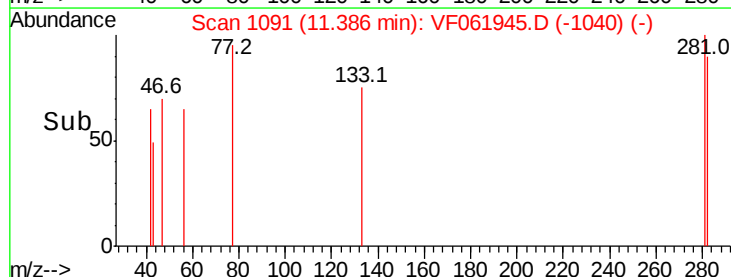
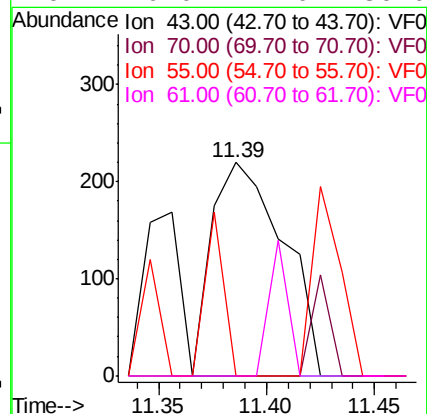
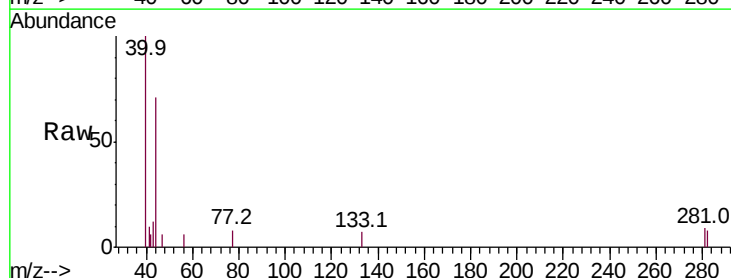
Ion Ratio Lower Upper

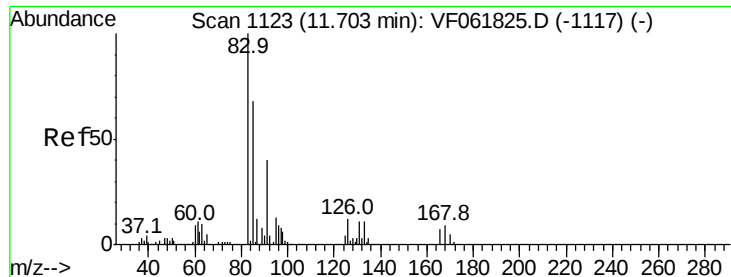
43 100

70 0.0 33.4 50.0#

55 0.0 16.3 24.5#

61 0.0 24.0 36.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 34.273 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

Instrument :

MSVOA_F

ClientSampleId :

RBR-200050

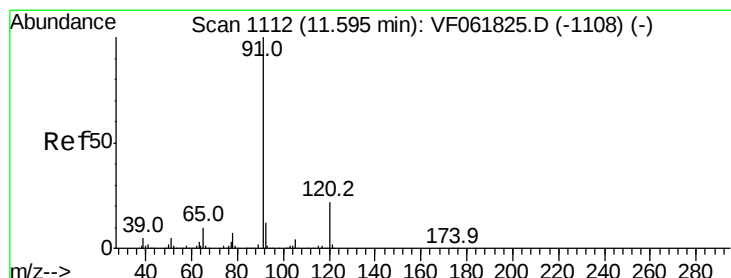
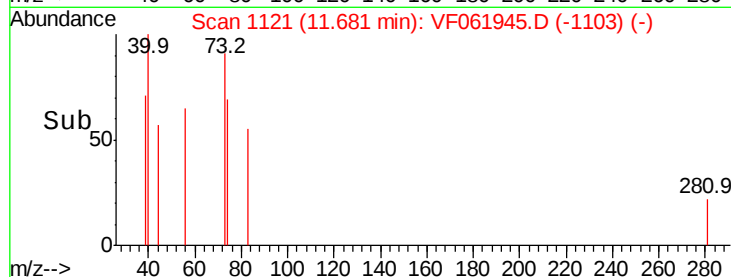
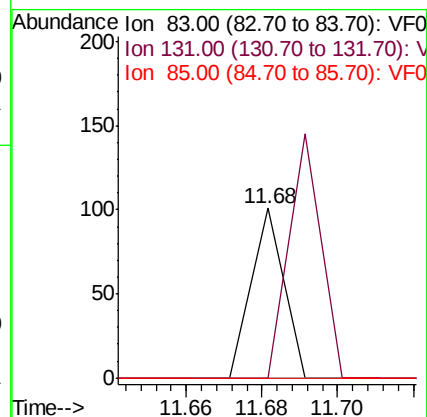
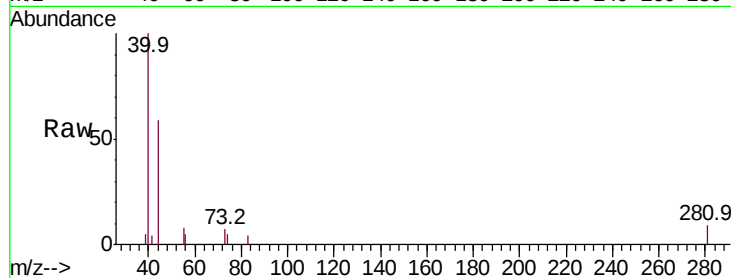
Tot Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

85 0.0 34.2 102.6#



#78

n-propylbenzene

Concen: 12.022 ug/l

RT: 11.60 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF061945.D

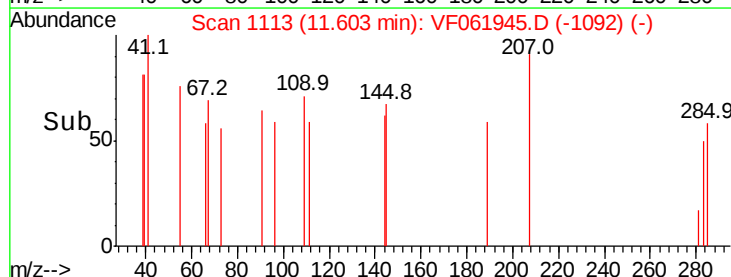
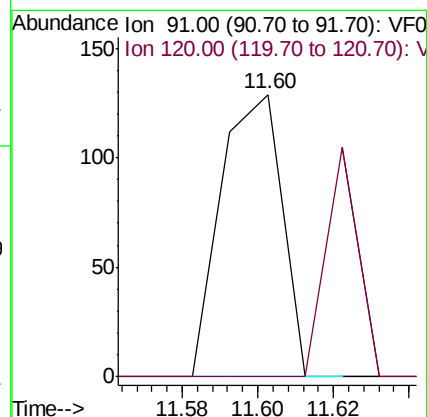
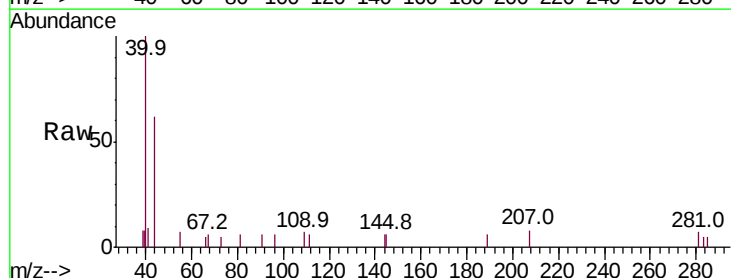
Acq: 14 Mar 2019 18:19

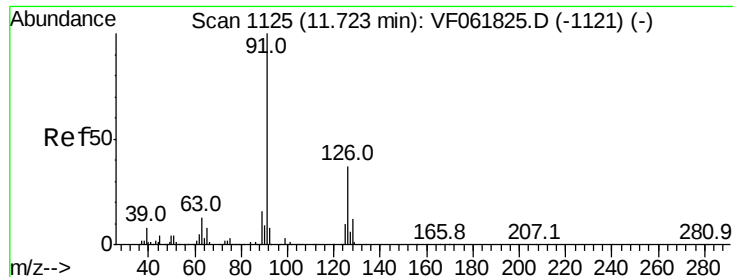
Tgt Ion: 91 Resp: 143

Ion Ratio Lower Upper

91 100

120 0.0 11.1 33.1#





#79

2-Chlorotoluene

Concen: 9.264 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

Instrument :

MSVOA_F

ClientSampleId :

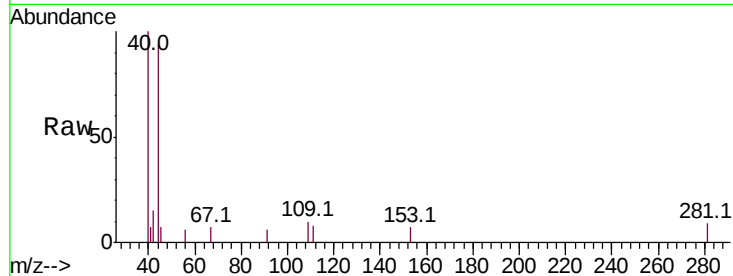
RBR-200050

Tot Ion: 91 Resp: 63

Ion Ratio Lower Upper

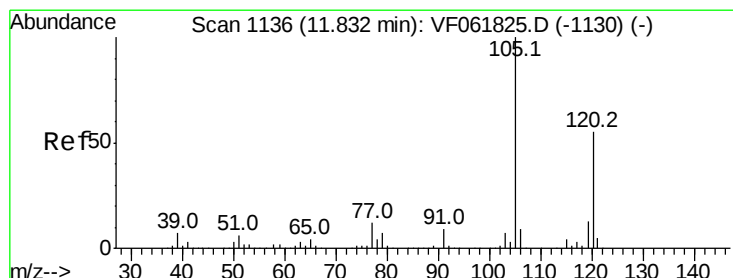
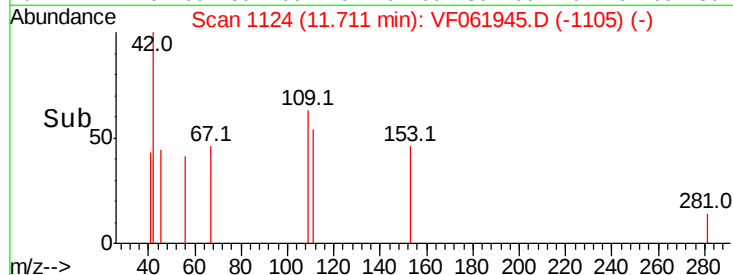
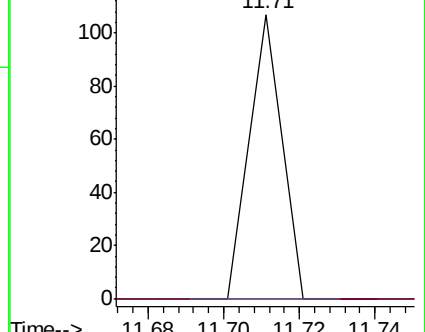
91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 8.396 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.04 min

Lab File: VF061945.D

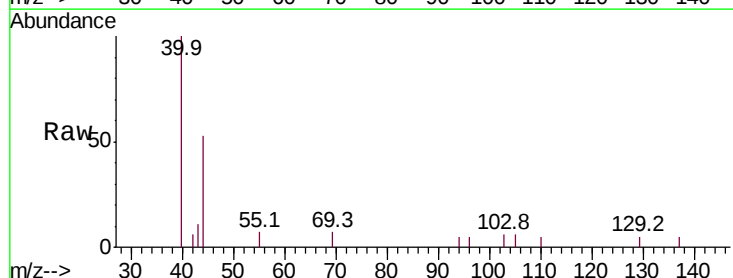
Acq: 14 Mar 2019 18:19

Tgt Ion: 105 Resp: 71

Ion Ratio Lower Upper

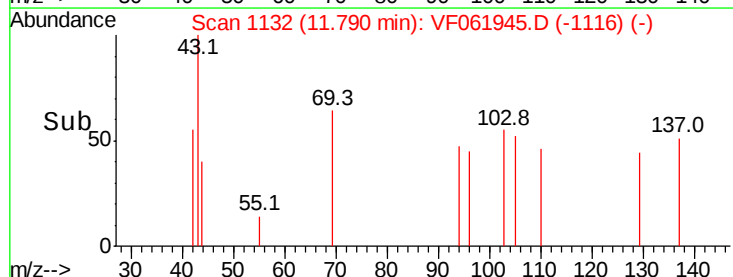
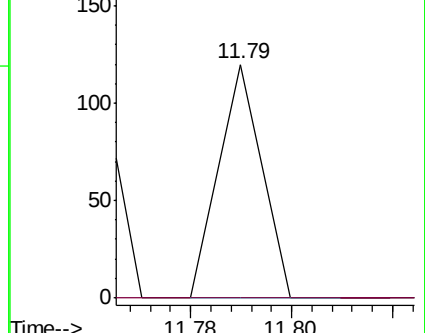
105 100

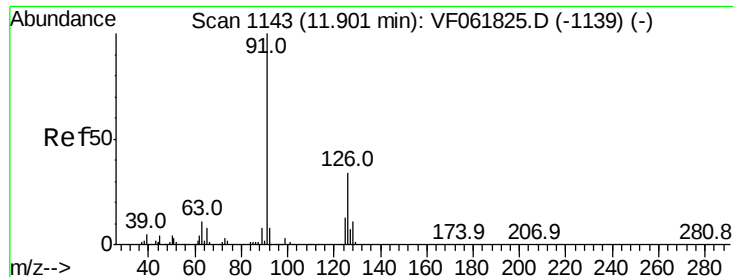
120 0.0 27.4 82.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

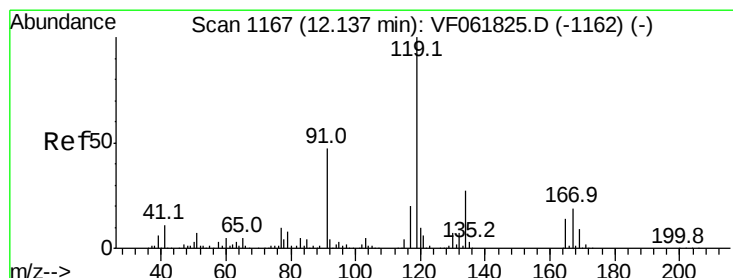
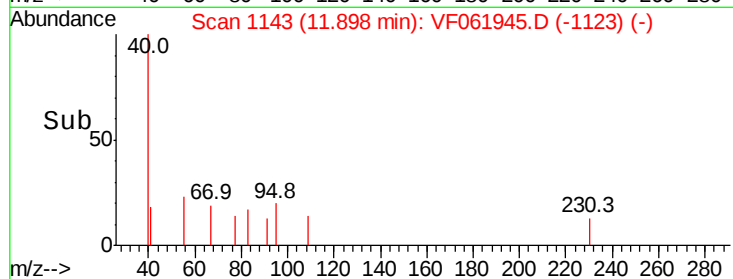
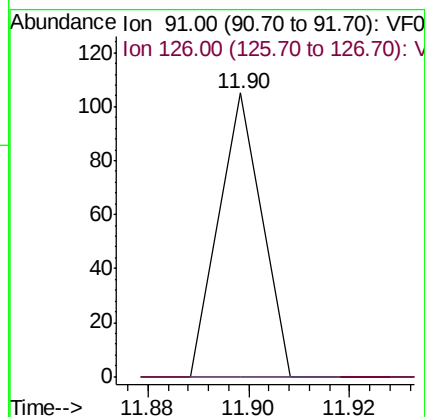
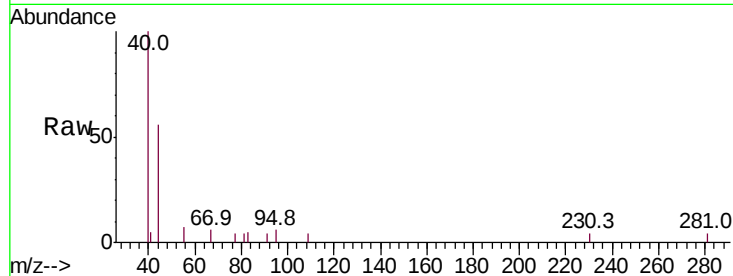




#82
4-Chlorotoluene
Concen: 8.913 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.00 min
Lab File: VF061945.D
Acq: 14 Mar 2019 18:19

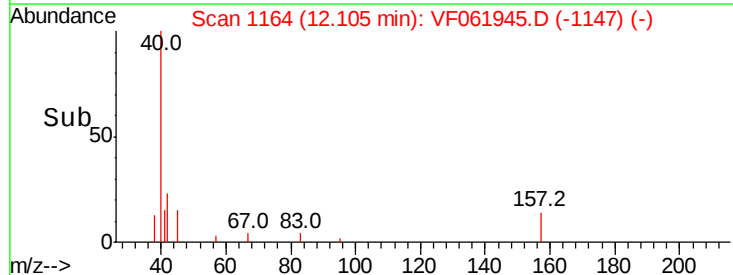
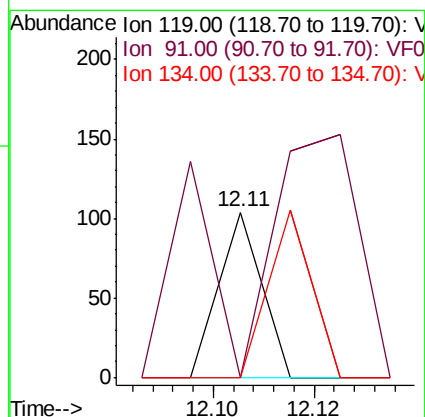
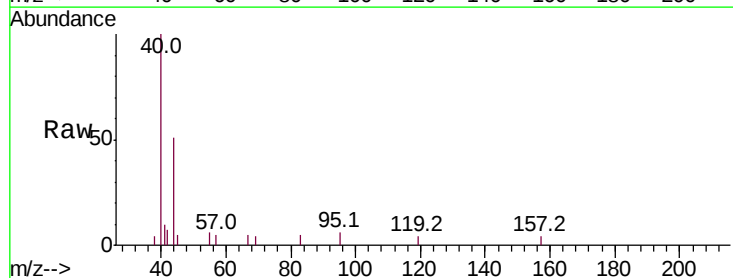
Instrument :
MSVOA_F
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RBR-200050

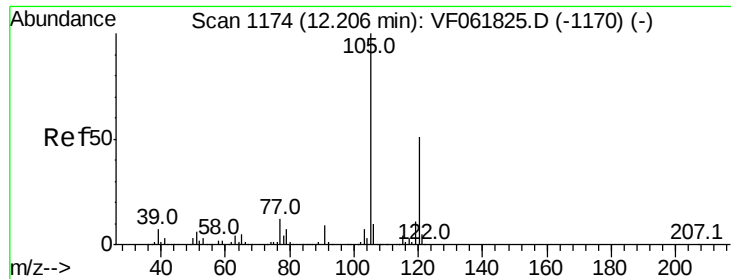
Tot Ion: 91 Resp: 62
Ion Ratio Lower Upper
91 100
126 0.0 17.0 50.9#



#83
tert-Butylbenzene
Concen: 6.904 ug/l
RT: 12.11 min Scan# 1164
Delta R.T. -0.03 min
Lab File: VF061945.D
Acq: 14 Mar 2019 18:19

Tgt Ion: 119 Resp: 62
Ion Ratio Lower Upper
119 100
91 0.0 23.5 70.5#
134 0.0 13.3 39.8#





#84

1,2,4-Trimethylbenzene

Concen: 9.650 ug/l

RT: 12.20 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

Instrument :

MSVOA_F

ClientSampleId :

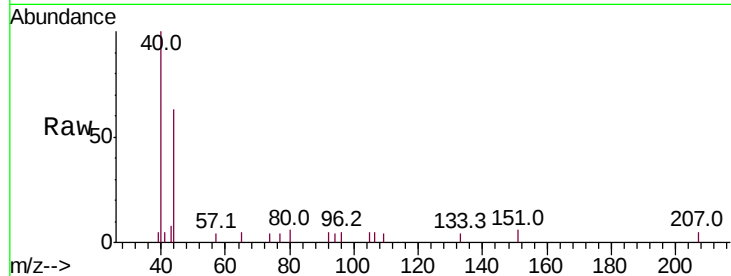
RBR-200050

Tot Ion:105 Resp: 80

Ion Ratio Lower Upper

105 100

120 0.0 25.8 77.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.20

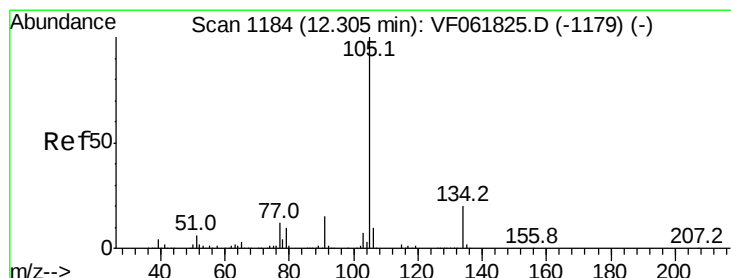
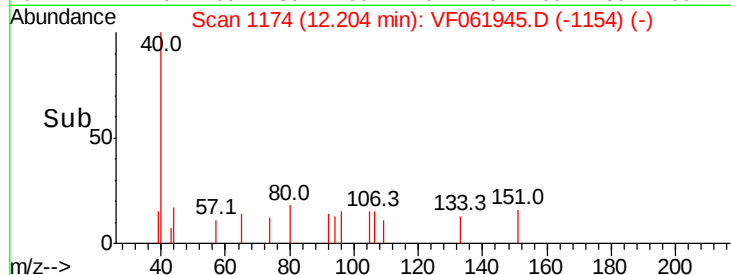
150

100

50

0

Time-->



#85

sec-Butylbenzene

Concen: 5.819 ug/l

RT: 12.35 min Scan# 1189

Delta R.T. 0.05 min

Lab File: VF061945.D

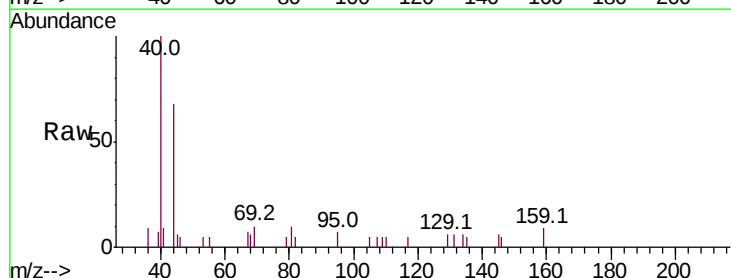
Acq: 14 Mar 2019 18:19

Tgt Ion:105 Resp: 68

Ion Ratio Lower Upper

105 100

134 113.0 9.8 29.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.35

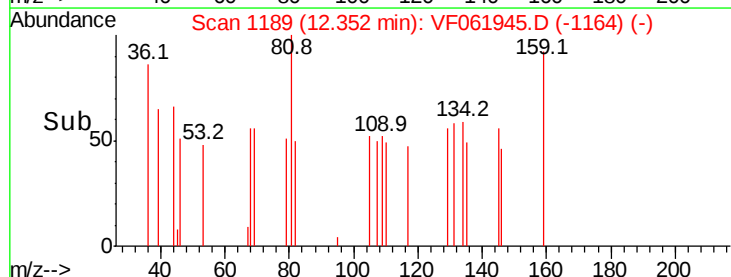
150

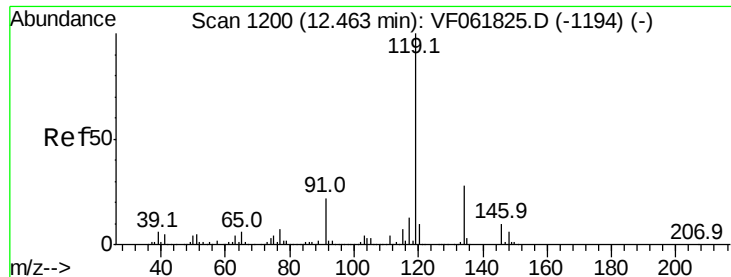
100

50

0

Time-->





#86

p-Isopropyltoluene

Concen: 23.155 ug/l

RT: 12.42 min Scan# 1196

Delta R.T. -0.04 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

Instrument :

MSVOA_F

ClientSampleId :

RBR-200050

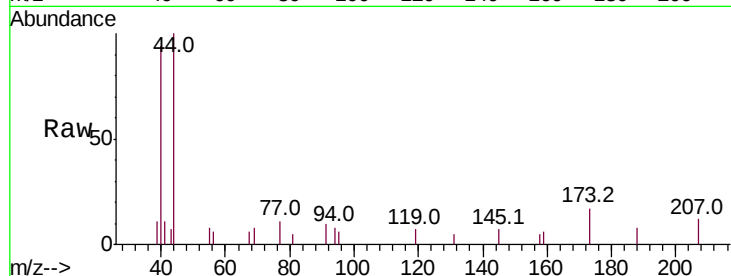
Tot Ion:119 Resp: 230

Ion Ratio Lower Upper

119 100

134 0.0 14.0 42.0#

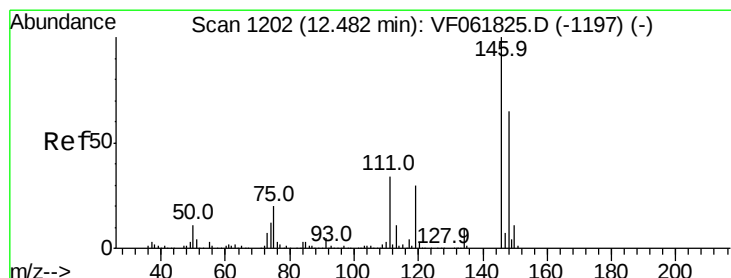
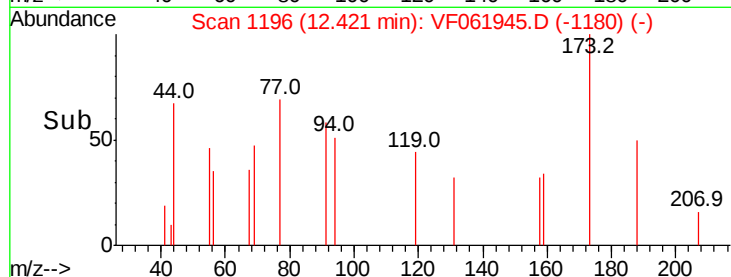
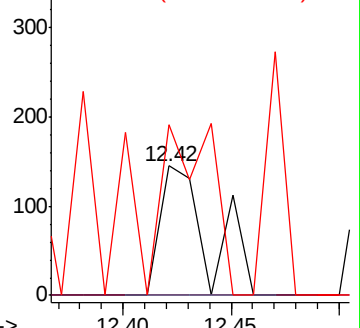
91 131.7 11.1 33.3#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#87

1,3-Dichlorobenzene

Concen: 12.465 ug/l

RT: 12.43 min Scan# 1197

Delta R.T. -0.05 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

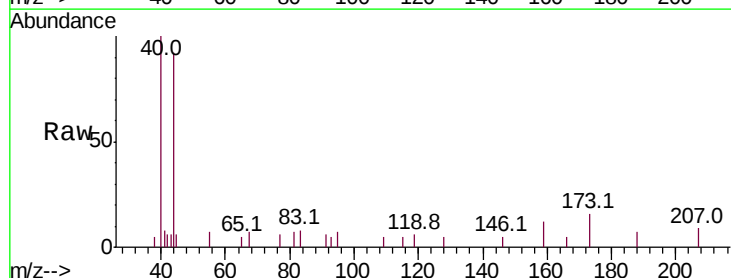
Tgt Ion:146 Resp: 60

Ion Ratio Lower Upper

146 100

111 0.0 17.0 51.0#

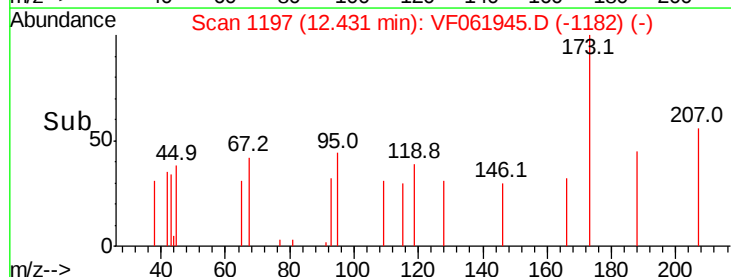
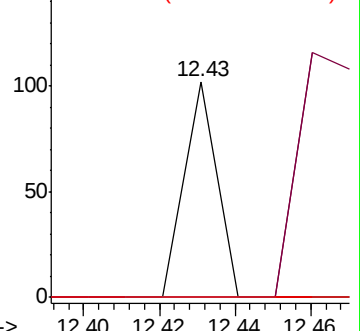
148 0.0 32.5 97.5#

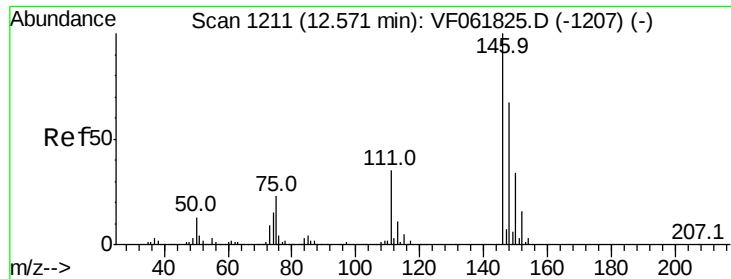


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

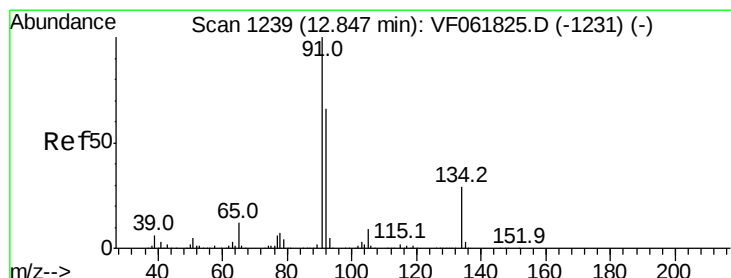
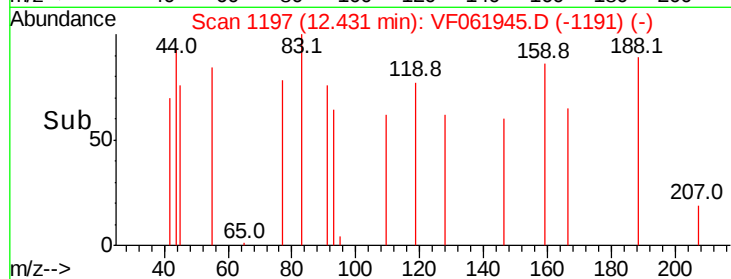
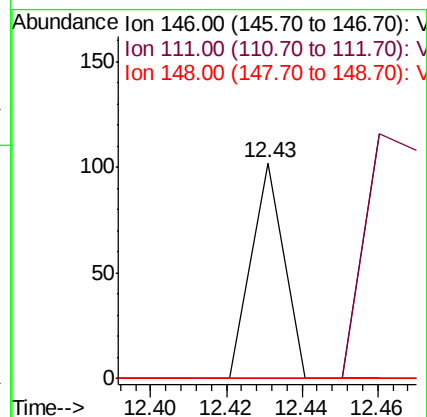
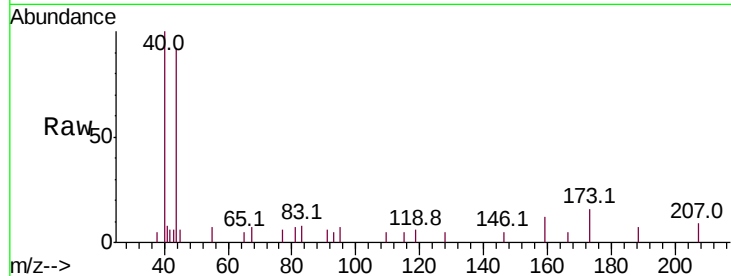




#88
 1,4-Dichlorobenzene
 Concen: 12.922 ug/l
 RT: 12.43 min Scan# 1197
 Delta R.T. -0.14 min
 Lab File: VF061945.D
 Acq: 14 Mar 2019 18:19

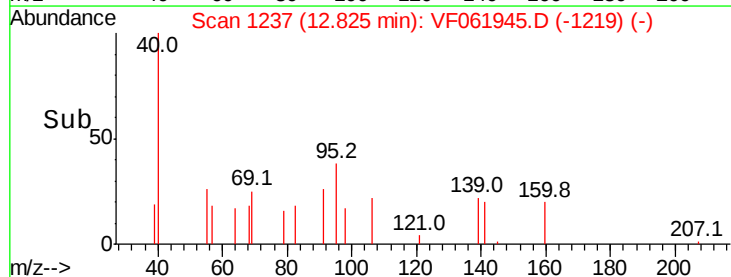
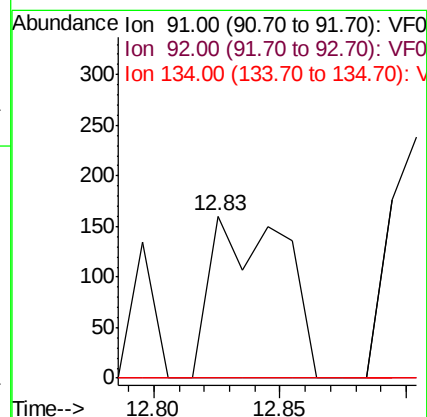
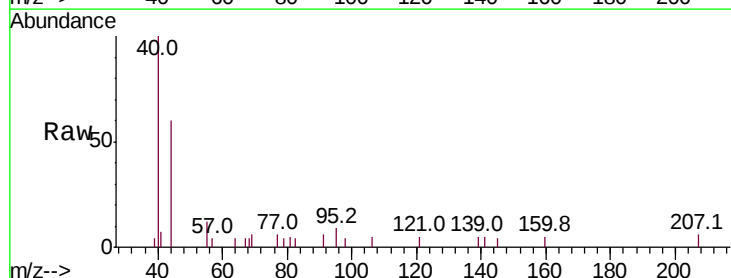
Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200050

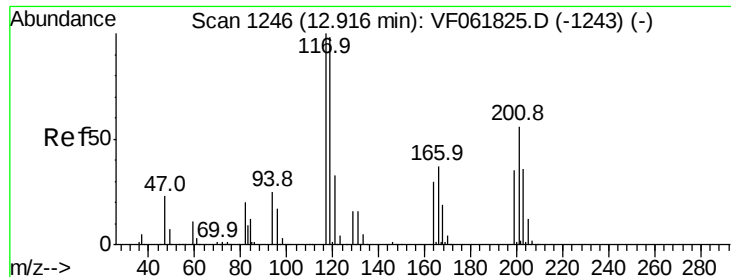
Tot Ion:146 Resp: 60
 Ion Ratio Lower Upper
 146 100
 111 0.0 17.6 52.9#
 148 0.0 33.5 100.4#



#89
 n-Butylbenzene
 Concen: 34.447 ug/l
 RT: 12.83 min Scan# 1237
 Delta R.T. -0.02 min
 Lab File: VF061945.D
 Acq: 14 Mar 2019 18:19

Tgt Ion: 91 Resp: 327
 Ion Ratio Lower Upper
 91 100
 92 0.0 32.9 98.6#
 134 0.0 14.5 43.6#





#90

Hexachloroethane

Concen: 27.604 ug/l

RT: 12.89 min Scan# 1244

Delta R.T. -0.02 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

Instrument :

MSVOA_F

ClientSampleId :

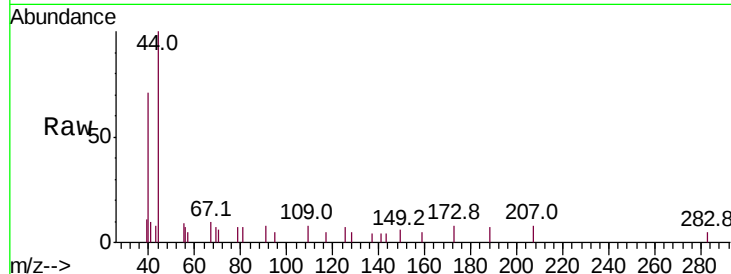
RBR-200050

Tot Ion:117 Resp: 66

Ion Ratio Lower Upper

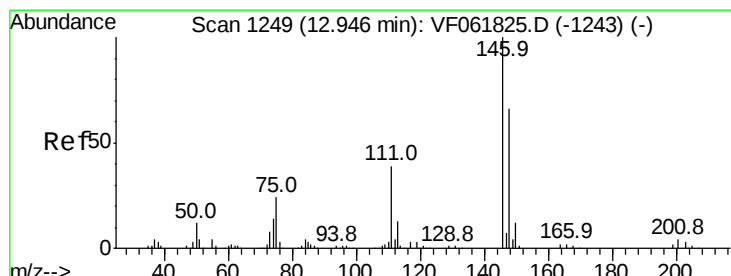
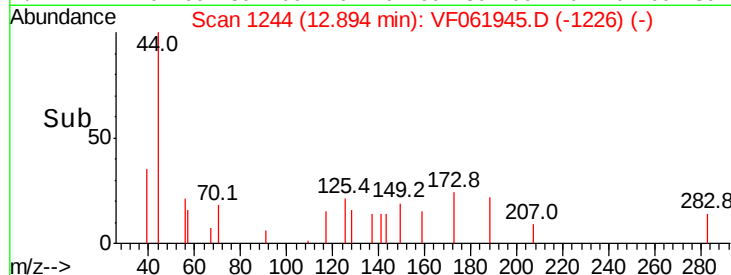
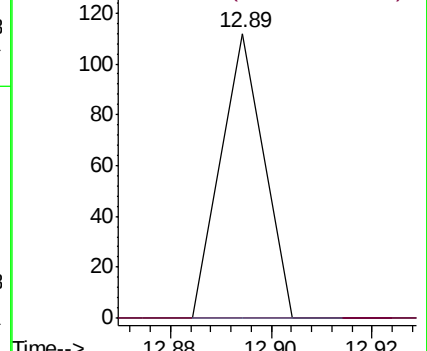
117 100

201 0.0 27.8 83.4#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#91

1,2-Dichlorobenzene

Concen: 13.595 ug/l

RT: 12.90 min Scan# 1245

Delta R.T. -0.04 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

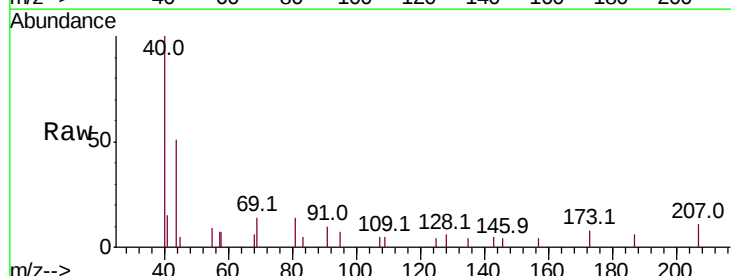
Tgt Ion:146 Resp: 62

Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.4#

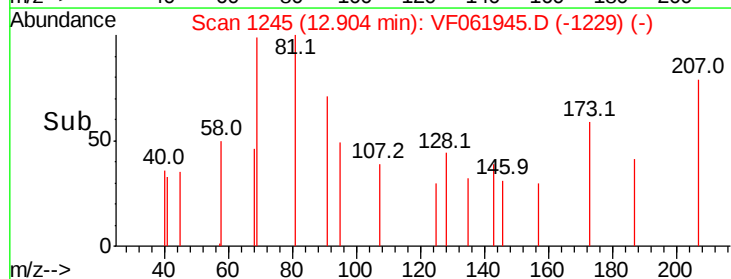
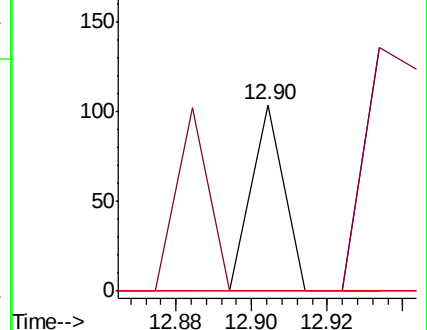
148 0.0 33.0 98.9#

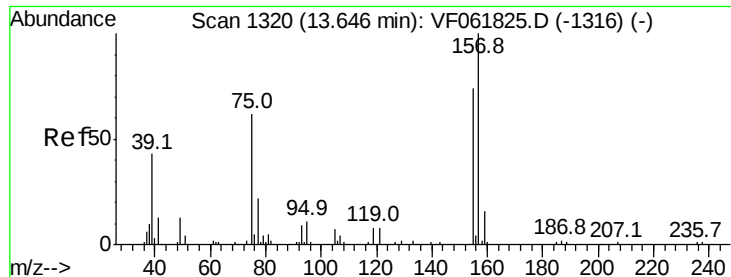


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 195.389 ug/l

RT: 13.60 min Scan# 1316

Delta R.T. -0.04 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

Instrument :

MSVOA_F

ClientSampleId :

RBR-200050

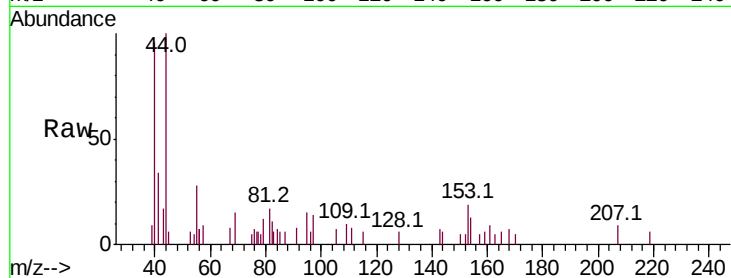
Tot Ion: 75 Resp: 63

Ion Ratio Lower Upper

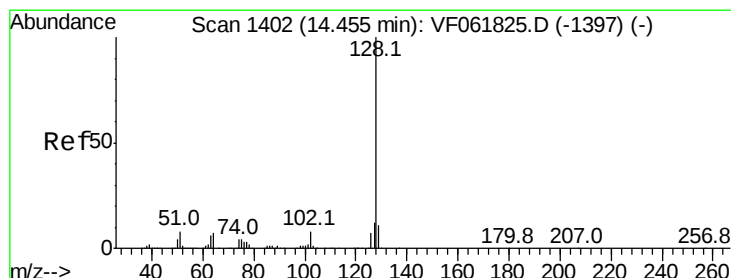
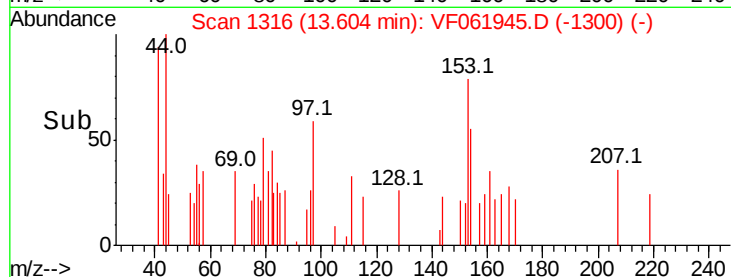
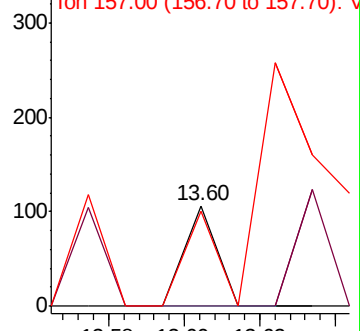
75 100

155 0.0 59.8 179.4#

157 95.3 81.2 243.4



Abundance Ion 75.00 (74.70 to 75.70): VF061825.D (-1316) (-)



#95

Naphthalene

Concen: 75.336 ug/l

RT: 14.46 min Scan# 1403

Delta R.T. 0.01 min

Lab File: VF061945.D

Acq: 14 Mar 2019 18:19

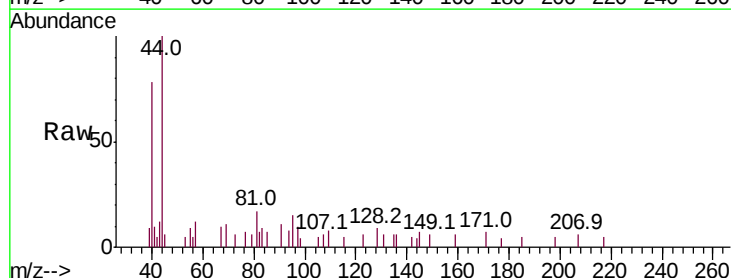
Tgt Ion:128 Resp: 429

Ion Ratio Lower Upper

128 100

127 0.0 9.3 13.9#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VF061825.D (-1397) (-)

