

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111618\
 Data File : VF060774.D
 Acq On : 16 Nov 2018 19:49
 Operator : VA/AP
 Sample : J5767-11RE
 Misc : 7.89g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-111418-BRE

Quant Time: Nov 17 04:24:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 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	-4.89
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.62
63) Chlorobenzene-d5	9.80	117	62	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	87	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.70	65	64	0.00	ug/l	-0.16
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	4.12	113	63	0.00	ug/l	0.00
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	11.44	95	946	0.00	ug/l	0.03
Spiked Amount	50.000		Recovery	=	0.00%	

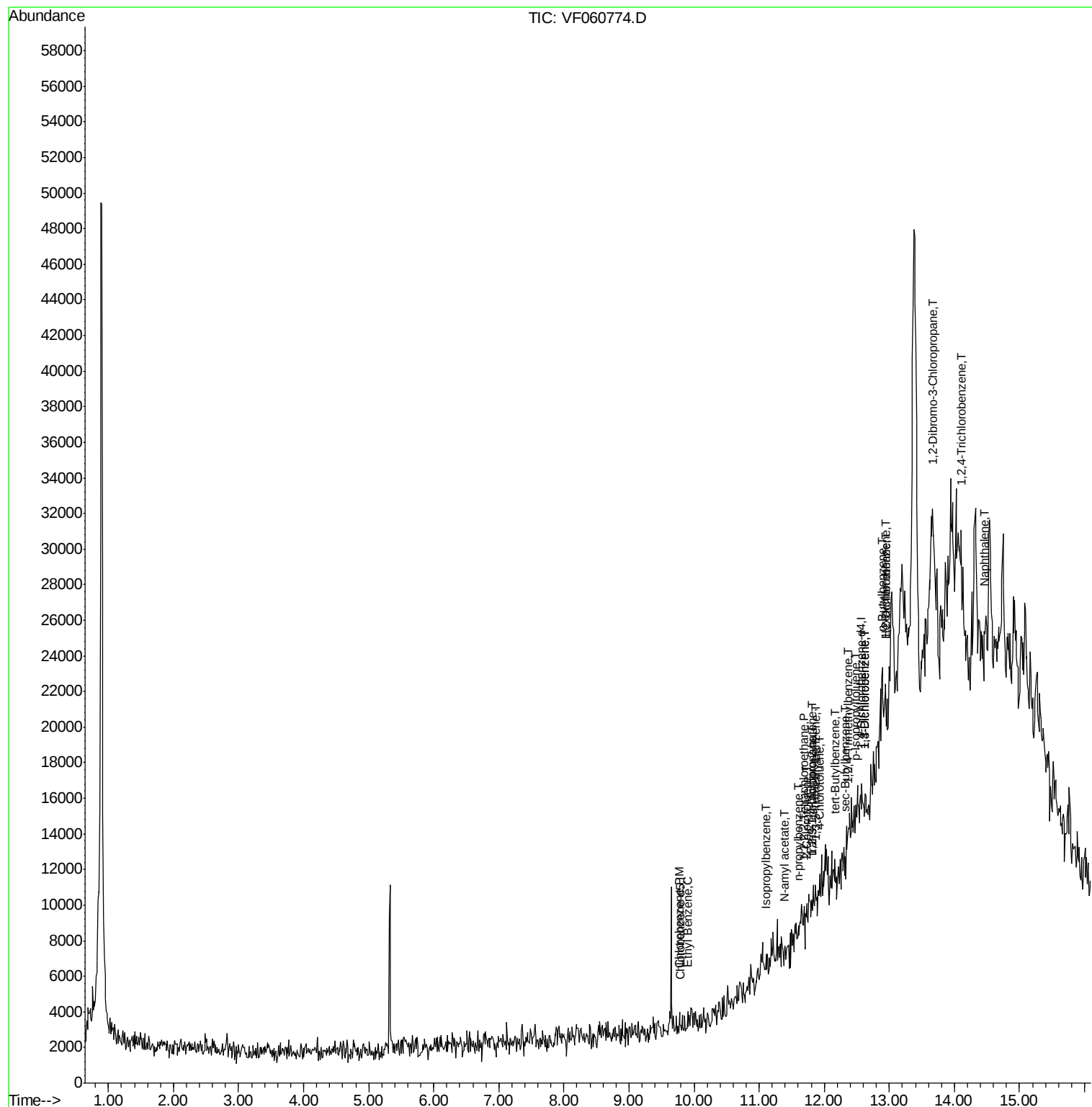
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
65) Chlorobenzene	9.77	112	67	53.552	ug/l #	42
67) Ethyl Benzene	9.89	91	59	25.018	ug/l #	45
73) Isopropylbenzene	11.10	105	416	59.404	ug/l #	48
74) N-amyl acetate	11.40	43	447	280.390	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.69	83	738	637.423	ug/l #	25
76) 1,2,3-Trichloropropane	11.80	75	64	74.430	ug/l #	1
78) n-propylbenzene	11.60	91	1015	124.275	ug/l #	53
79) 2-Chlorotoluene	11.73	91	440	92.691	ug/l #	41
80) 1,3,5-Trimethylbenzene	11.88	105	427	76.803	ug/l #	27
81) trans-1,4-Dichloro-2-buten	11.80	75	64	151.501	ug/l #	40
82) 4-Chlorotoluene	11.93	91	411	84.516	ug/l #	43
83) tert-Butylbenzene	12.16	119	221	37.438	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.37	105	169	29.392	ug/l #	78
85) sec-Butylbenzene	12.32	105	494	61.691	ug/l #	56
86) p-Isopropyltoluene	12.49	119	299	44.707	ug/l #	3
87) 1,3-Dichlorobenzene	12.64	146	60	20.683	ug/l #	1
88) 1,4-Dichlorobenzene	12.64	146	60	21.521	ug/l #	1
89) n-Butylbenzene	12.87	91	405	59.339	ug/l #	26
90) Hexachloroethane	12.94	117	77	47.072	ug/l #	21
91) 1,2-Dichlorobenzene	12.95	146	66	24.164	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.67	75	83	381.418	ug/l #	62
93) 1,2,4-Trichlorobenzene	14.11	180	81	41.260	ug/l #	1
95) Naphthalene	14.45	128	143	39.920	ug/l #	69

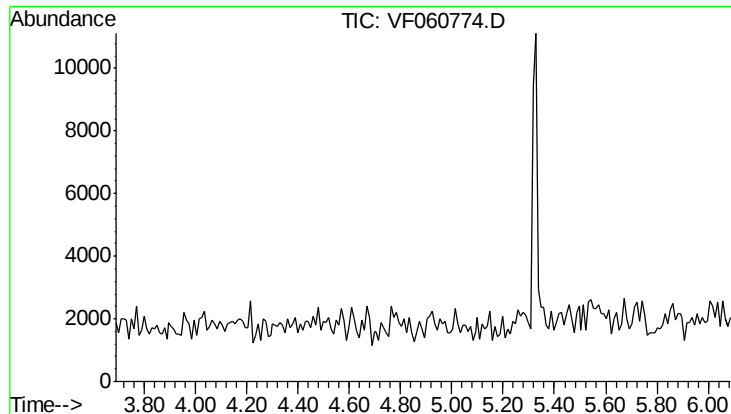
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.89 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

Tot Ion: 168

Sig Exp Ratio

168 100

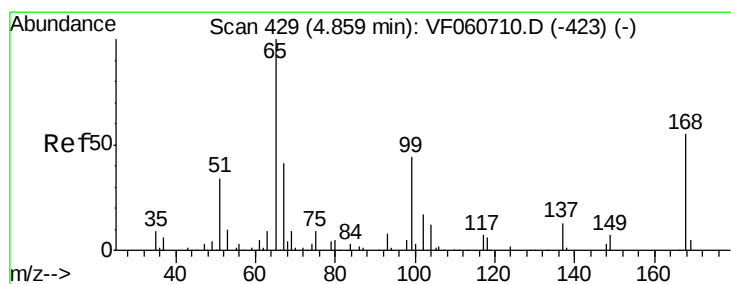
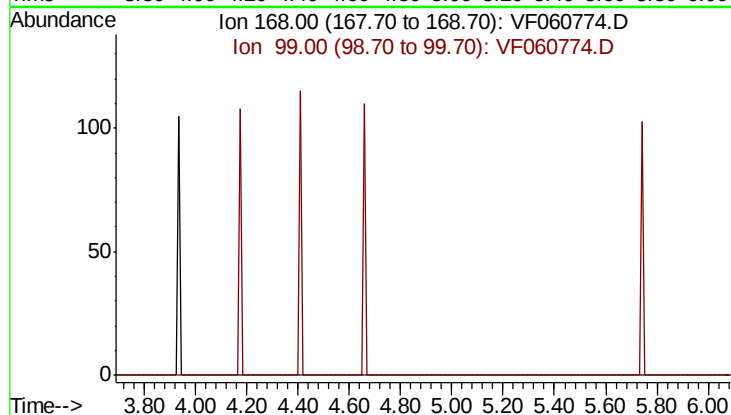
99 71.5

Instrument :

MSVOA_F

ClientSampleId :

CL-01-111418-BRE



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.70 min Scan# 412

Delta R.T. -0.16 min

Lab File: VF060774.D

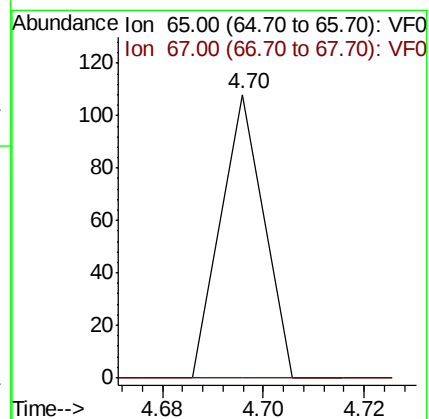
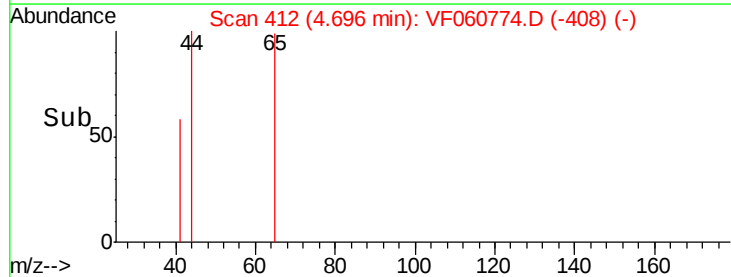
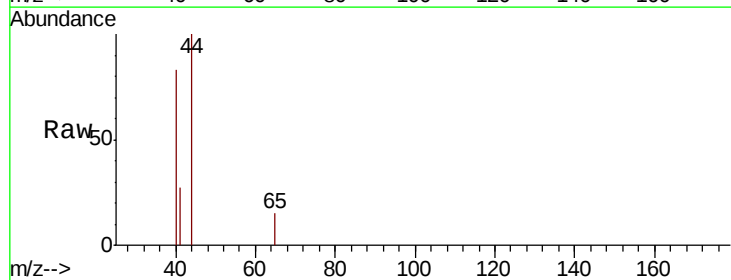
Acq: 16 Nov 2018 19:49

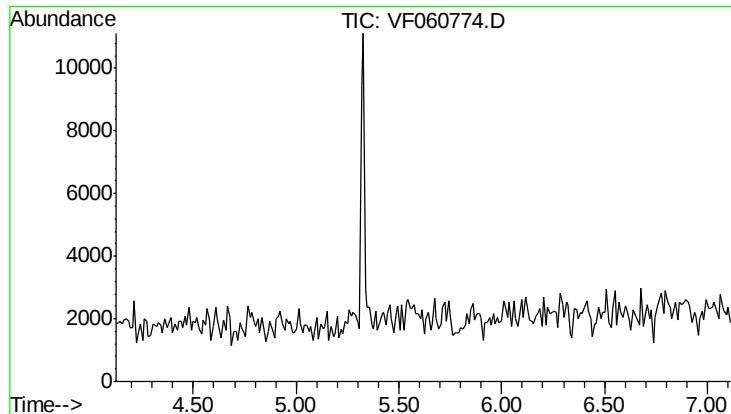
Tgt Ion: 65 Resp: 64

Ion Ratio Lower Upper

65 100

67 0.0 0.0 90.2





#34

1,4-Difluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.62 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

CL-01-111418-BRE

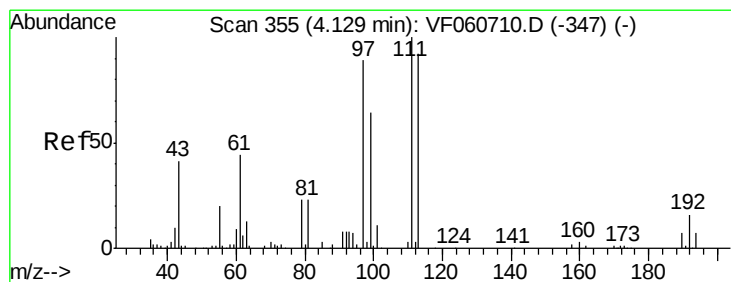
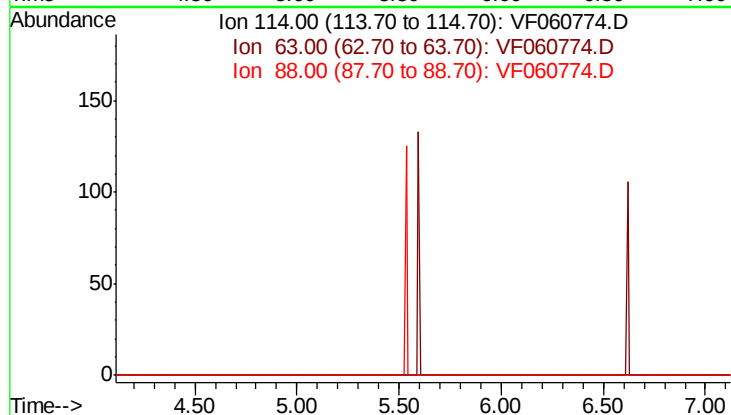
Tot Ion: 114

Sig Exp Ratio

114 100

63 20.4

88 19.8



#35

Dibromofluoromethane

Concen: 0.000 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

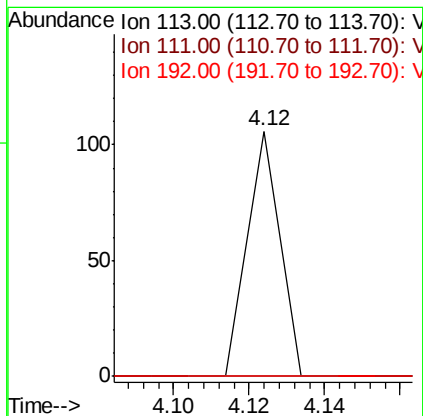
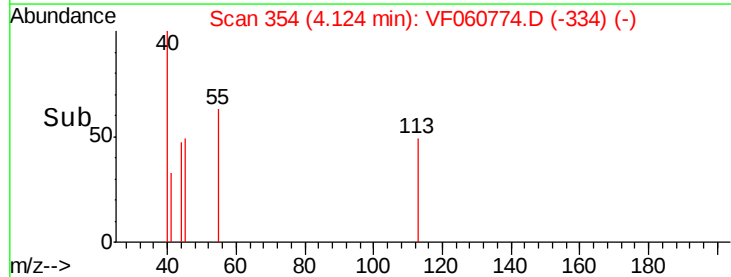
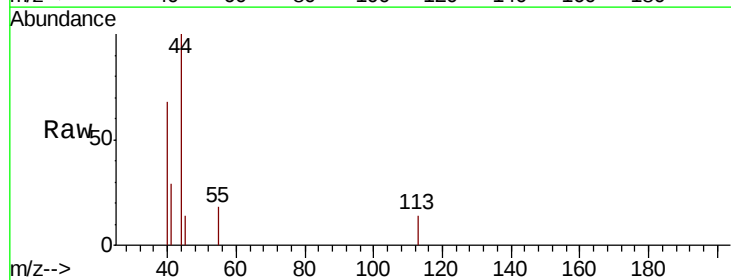
Tgt Ion: 113 Resp: 63

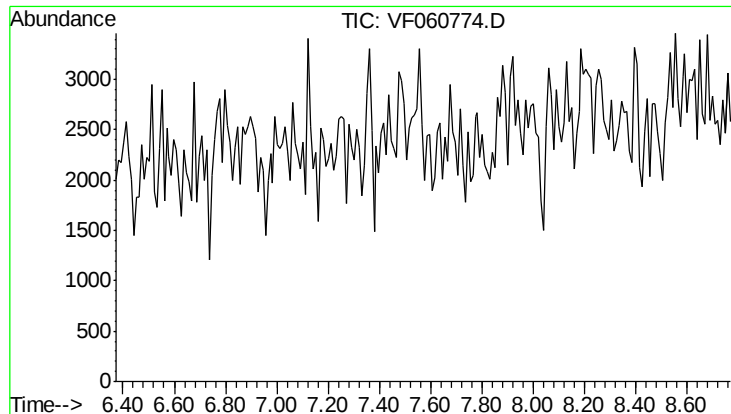
Ion Ratio Lower Upper

113 100

111 0.0 87.1 130.7#

192 0.0 13.8 20.6#



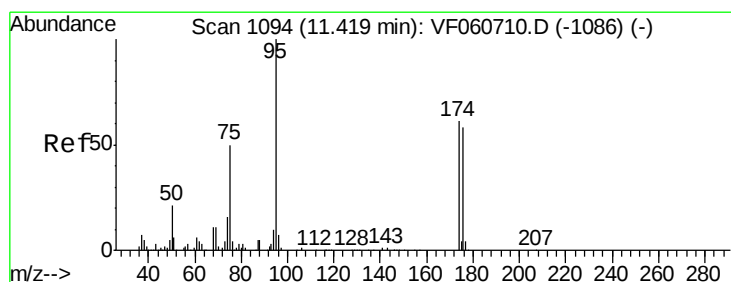
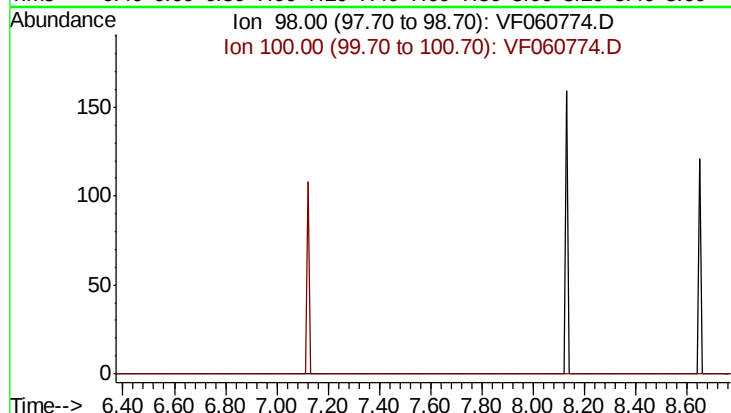


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.57 min

Lab File: VF060774.D
Acq: 16 Nov 2018 19:49

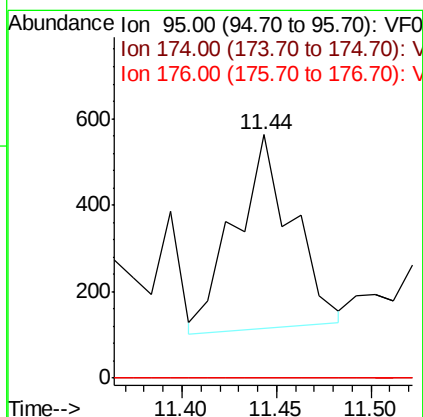
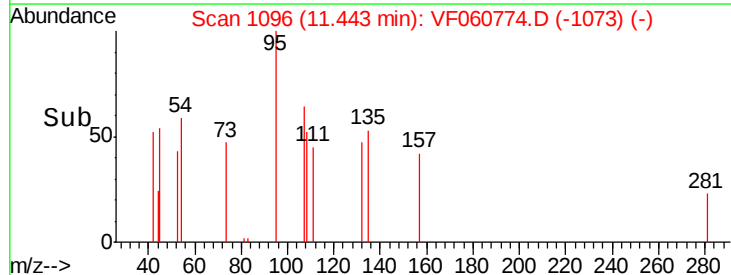
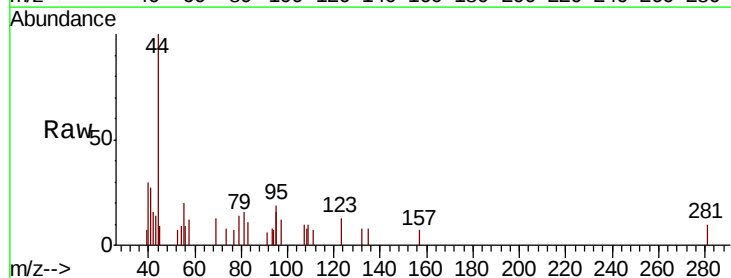
Instrument :
MSVOA_F
ClientSampleId :
CL-01-111418-BRE

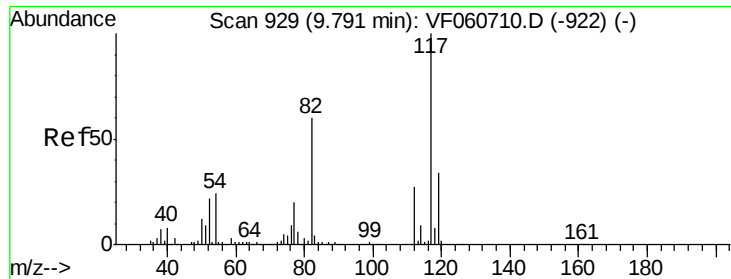
Tot Ion: 98
Sig Exp Ratio
98 100
100 70.6



#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
RT: 11.44 min Scan# 1096
Delta R.T. 0.03 min
Lab File: VF060774.D
Acq: 16 Nov 2018 19:49

Tgt Ion: 95 Resp: 946
Ion Ratio Lower Upper
95 100
174 0.0 0.0 121.6
176 0.0 0.0 115.2

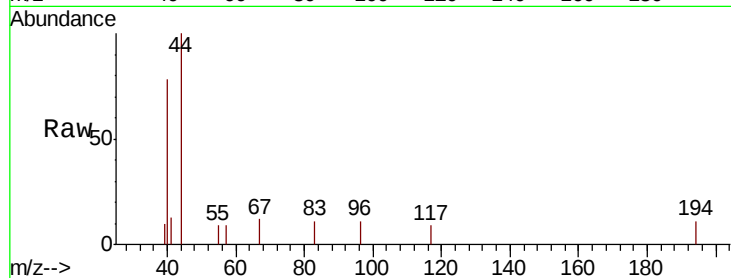




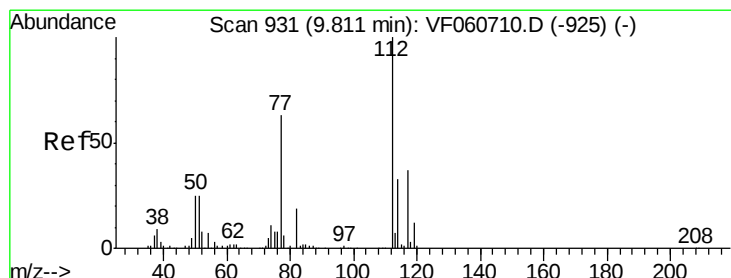
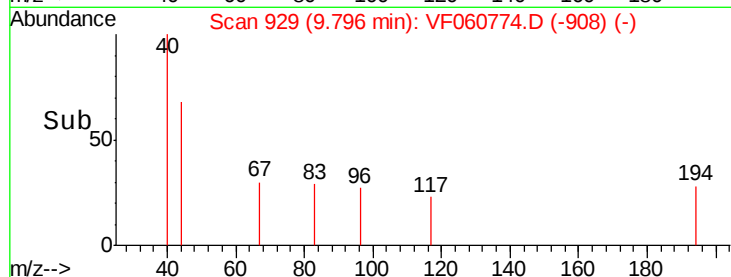
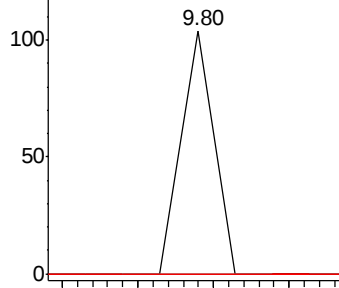
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF060774.D
Acq: 16 Nov 2018 19:49

Instrument :
MSVOA_F
ClientSampleId :
CL-01-111418-BRE

Tot Ion	Ratio	Lower	Upper
117	100		
82	0.0	47.9	71.9#
119	0.0	26.8	40.2#

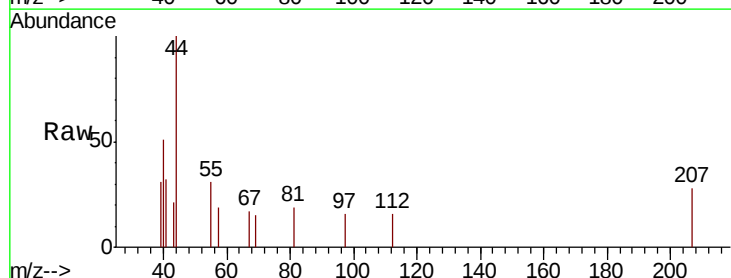


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

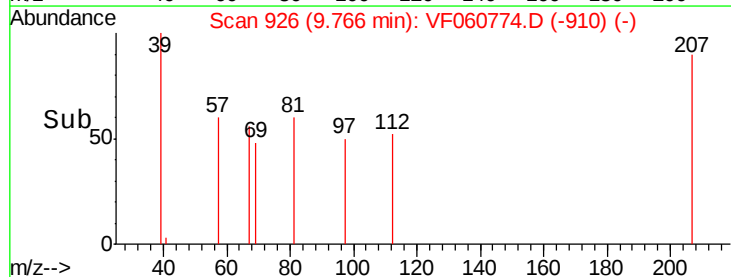
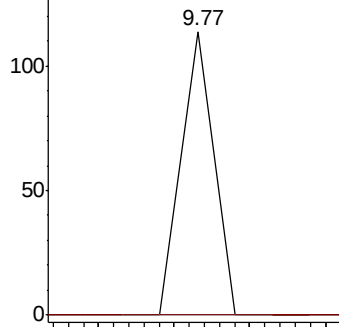


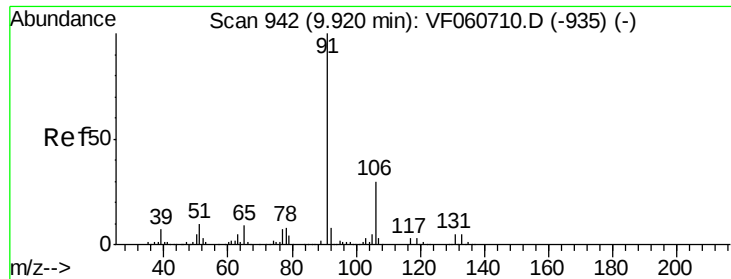
#65
Chlorobenzene
Concen: 53.552 ug/l
RT: 9.77 min Scan# 926
Delta R.T. -0.04 min
Lab File: VF060774.D
Acq: 16 Nov 2018 19:49

Tgt Ion	Ratio	Lower	Upper
112	100		
114	0.0	26.1	39.1#



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V

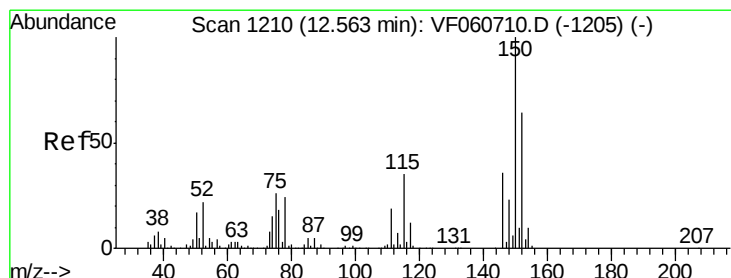
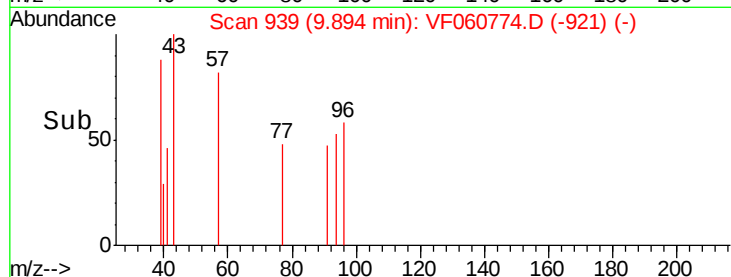
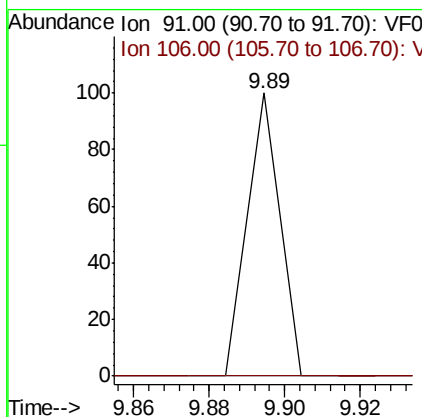
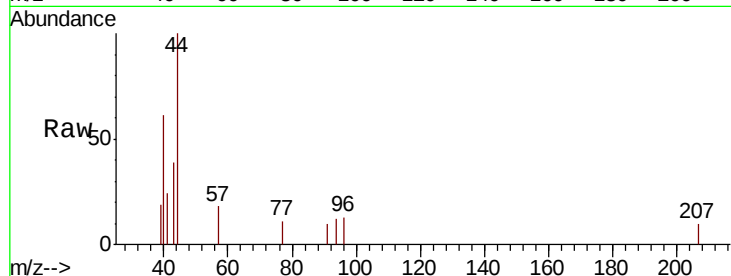




#67
Ethyl Benzene
Concen: 25.018 ug/l
RT: 9.89 min Scan# 939
Delta R.T. -0.03 min
Lab File: VF060774.D
Acq: 16 Nov 2018 19:49

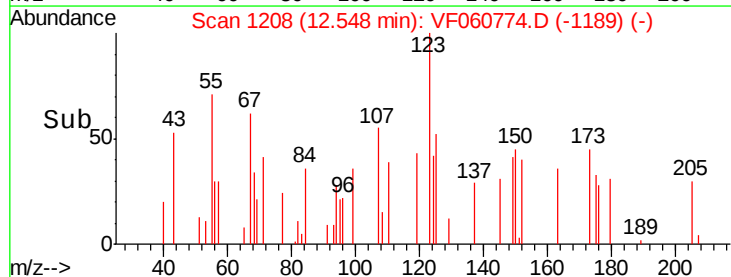
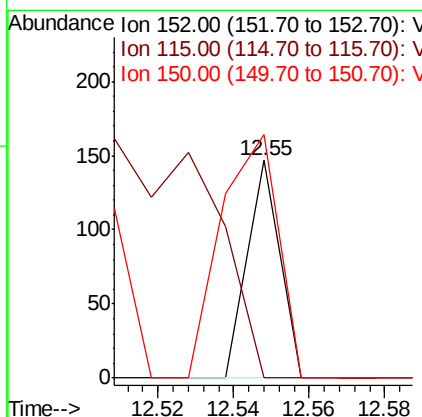
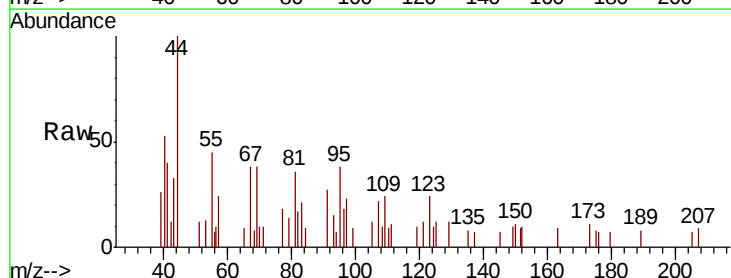
Instrument :
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CL-01-111418-BRE

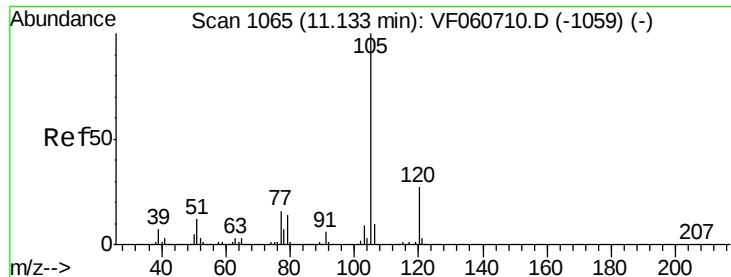
Tot Ion: 91 Resp: 59
Ion Ratio Lower Upper
91 100
106 0.0 23.9 35.9#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF060774.D
Acq: 16 Nov 2018 19:49

Tgt Ion: 152 Resp: 87
Ion Ratio Lower Upper
152 100
115 0.0 27.9 83.7#
150 111.6 0.0 316.4





#73

Isopropylbenzene

Concen: 59.404 ug/l

RT: 11.10 min Scan# 1061

Delta R.T. -0.04 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

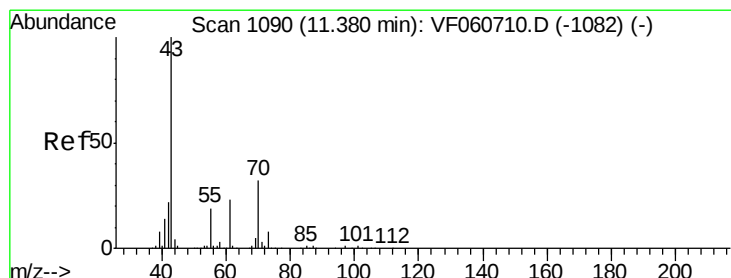
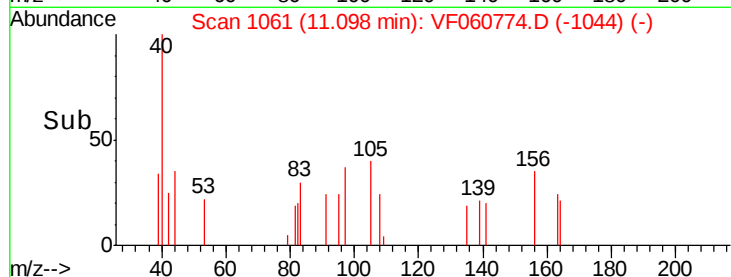
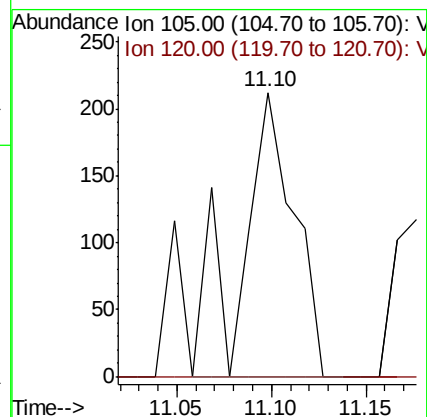
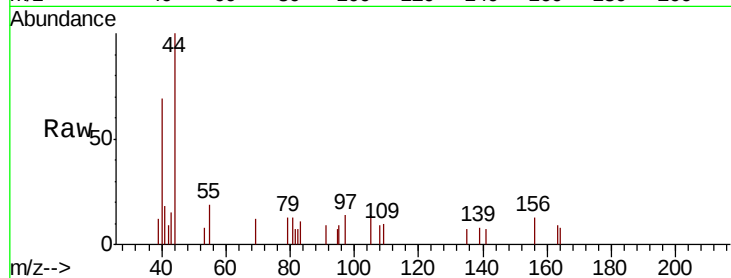
CL-01-111418-BRE

Tot Ion:105 Resp: 416

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.1#



#74

N-ethyl acetate

Concen: 280.390 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.02 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

Tgt Ion: 43 Resp: 447

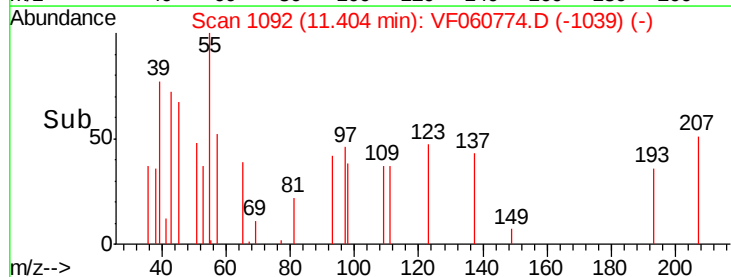
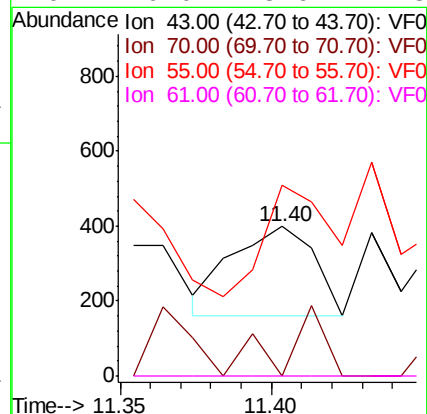
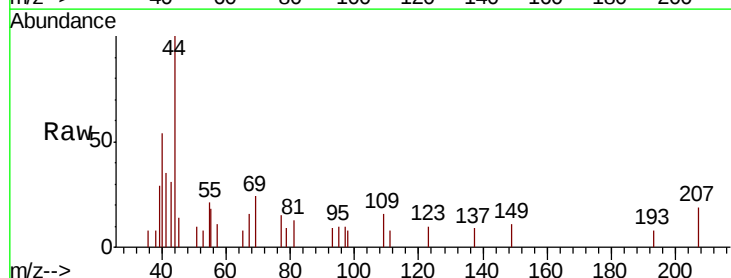
Ion Ratio Lower Upper

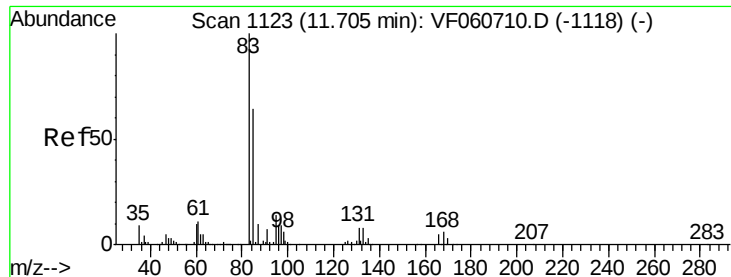
43 100

70 0.0 25.5 38.3#

55 127.3 14.9 22.3#

61 0.0 18.6 27.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 637.423 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

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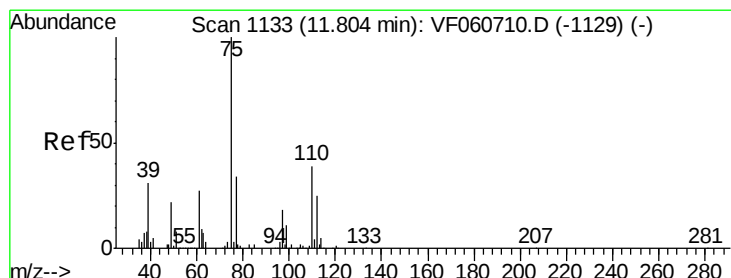
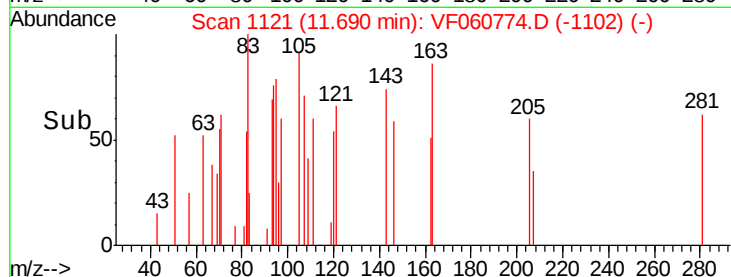
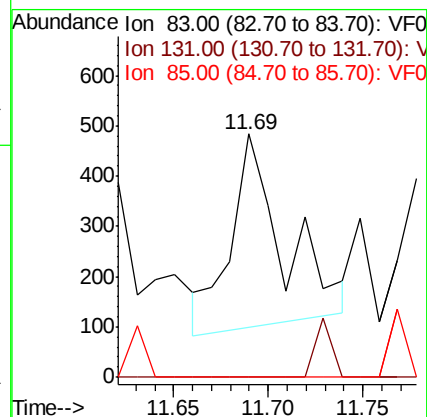
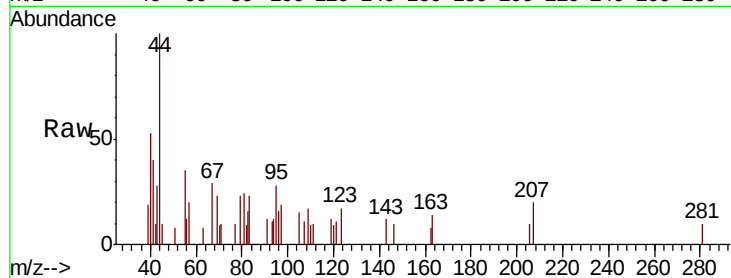
Tot Ion: 83 Resp: 738

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.4#

85 0.0 32.0 96.2#



#76

1,2,3-Trichloropropane

Concen: 74.430 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF060774.D

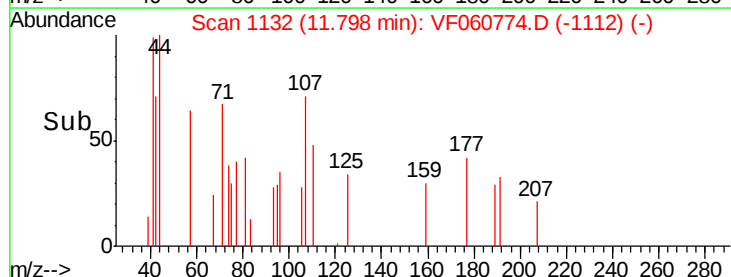
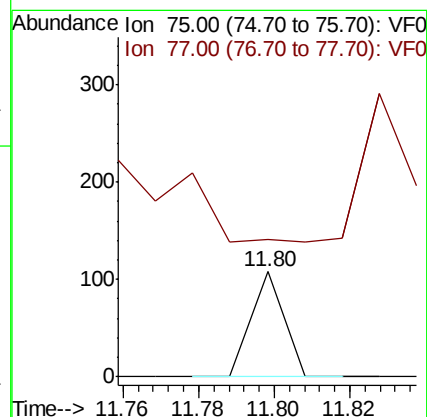
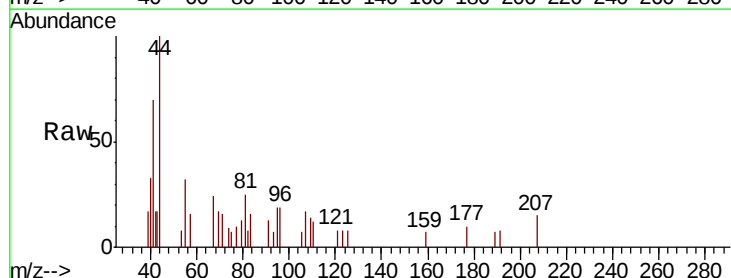
Acq: 16 Nov 2018 19:49

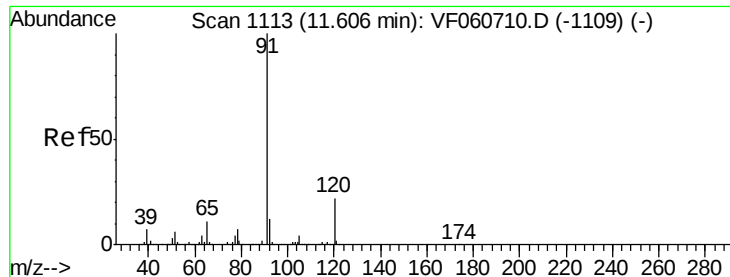
Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

77 130.6 17.0 51.0#





#78

n-propylbenzene

Concen: 124.275 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

Instrument :

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ClientSampleId :

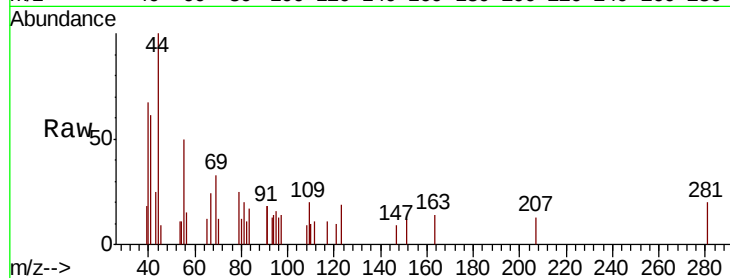
CL-01-111418-BRE

Tot Ion: 91 Resp: 1015

Ion Ratio Lower Upper

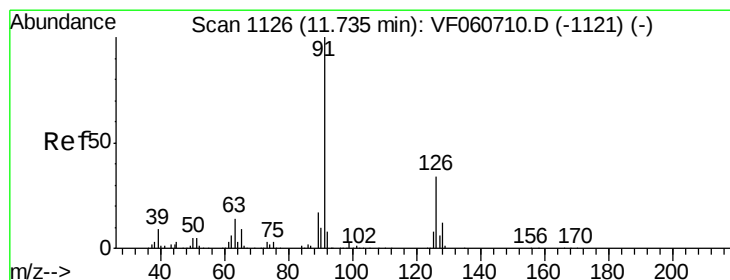
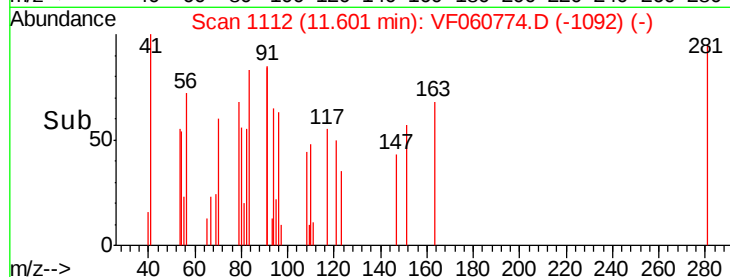
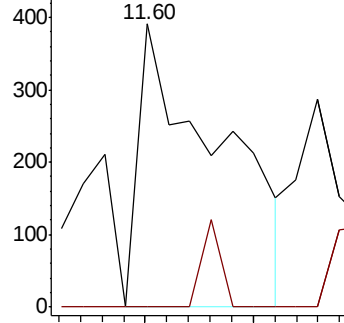
91 100

120 0.0 11.2 33.5#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 92.691 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF060774.D

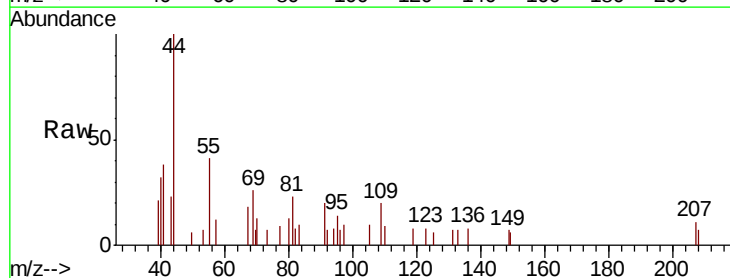
Acq: 16 Nov 2018 19:49

Tgt Ion: 91 Resp: 440

Ion Ratio Lower Upper

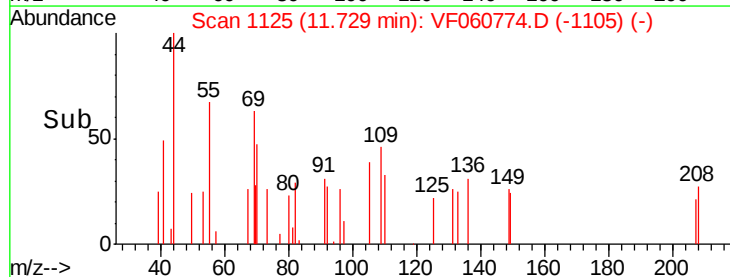
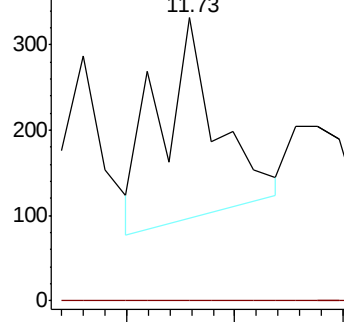
91 100

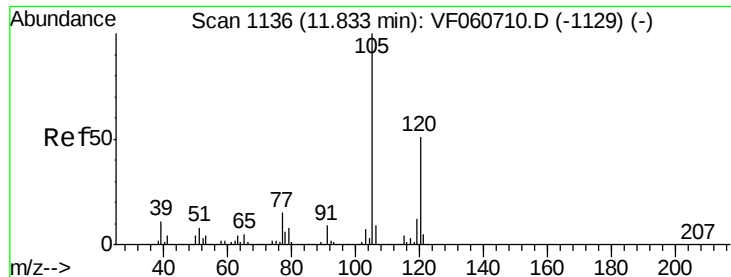
126 0.0 16.8 50.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

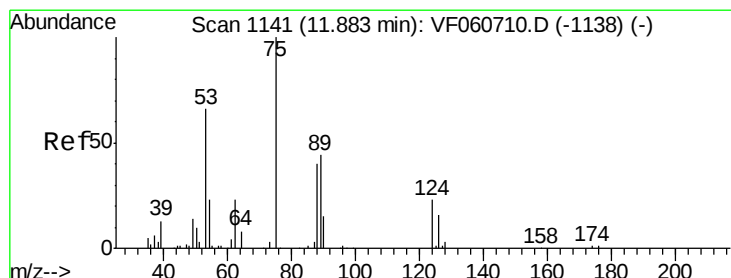
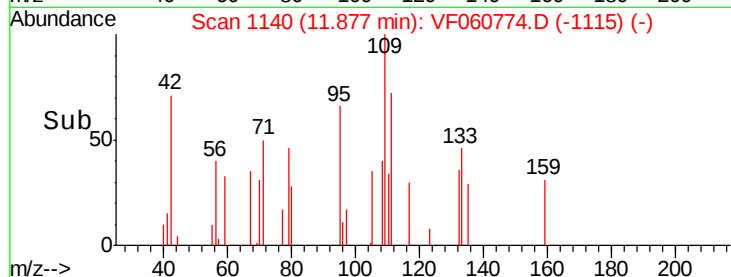
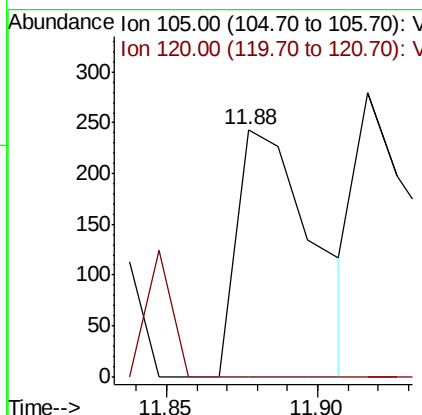
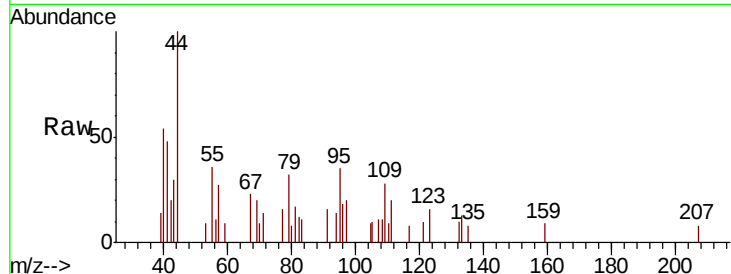




#80
 1,3,5-Trimethylbenzene
 Concen: 76.803 ug/l
 RT: 11.88 min Scan# 1140
 Delta R.T. 0.04 min
 Lab File: VF060774.D
 Acq: 16 Nov 2018 19:49

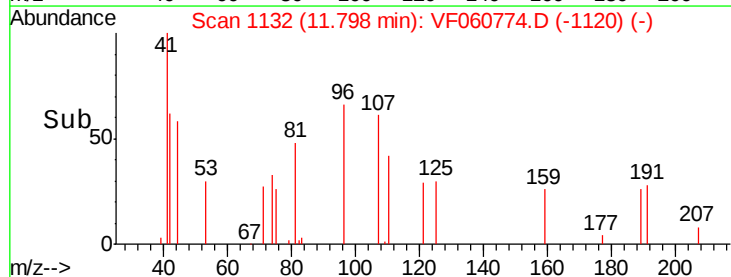
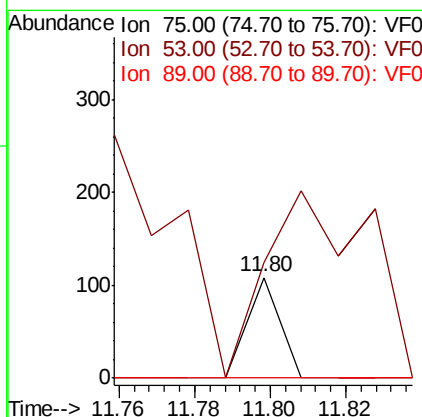
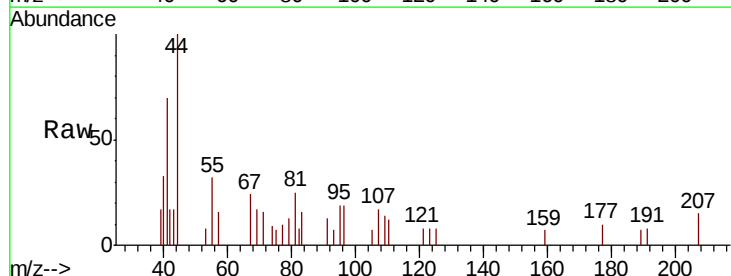
Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-111418-BRE

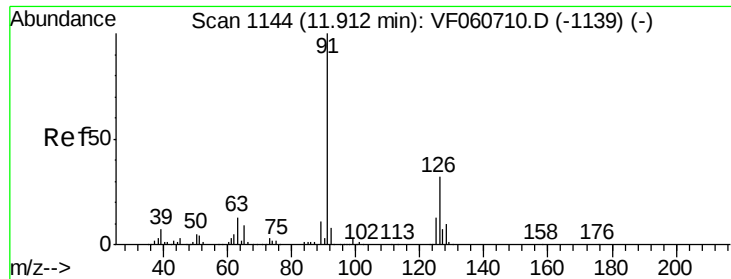
Tot Ion:105 Resp: 427
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.6 76.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 151.501 ug/l
 RT: 11.80 min Scan# 1132
 Delta R.T. -0.08 min
 Lab File: VF060774.D
 Acq: 16 Nov 2018 19:49

Tgt Ion: 75 Resp: 64
 Ion Ratio Lower Upper
 75 100
 53 114.8 57.0 85.4#
 89 0.0 37.8 56.8#





#82

4-Chlorotoluene

Concen: 84.516 ug/l

RT: 11.93 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

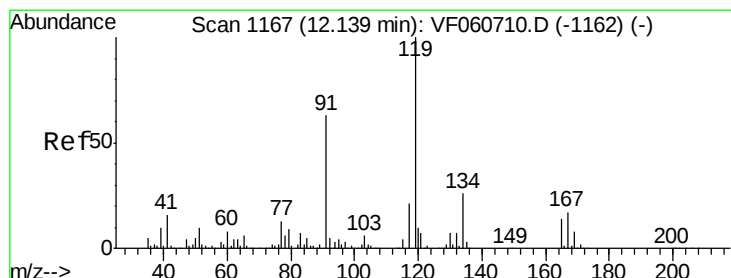
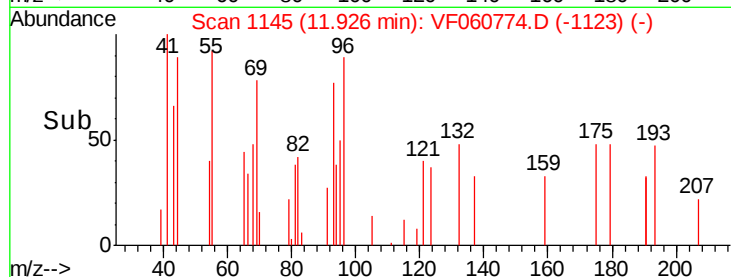
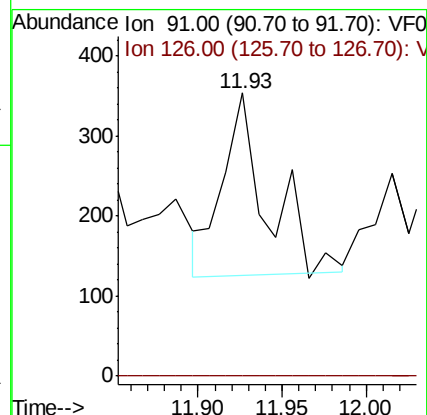
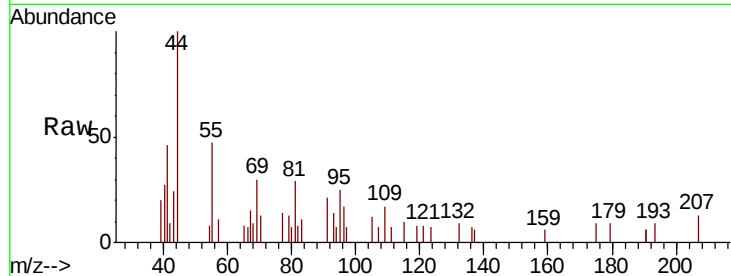
CL-01-111418-BRE

Tot Ion: 91 Resp: 411

Ion Ratio Lower Upper

91 100

126 0.0 16.0 47.9#



#83

tert-Butylbenzene

Concen: 37.438 ug/l

RT: 12.16 min Scan# 1169

Delta R.T. 0.02 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

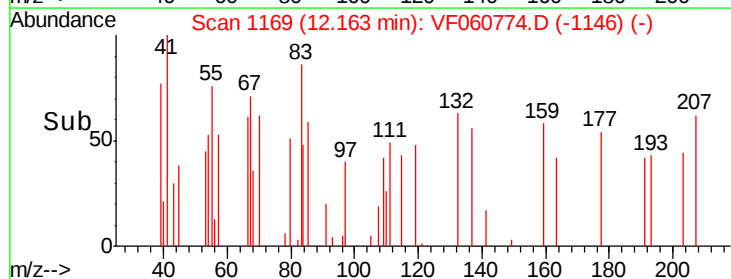
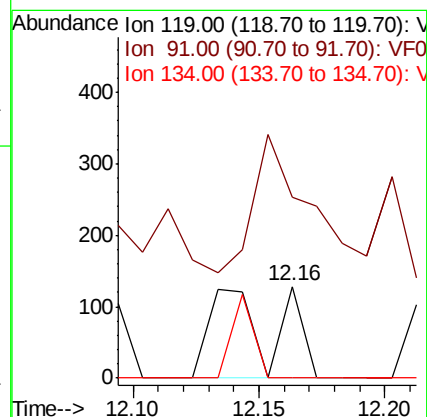
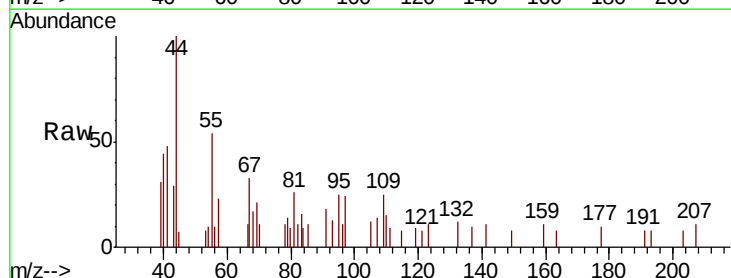
Tgt Ion: 119 Resp: 221

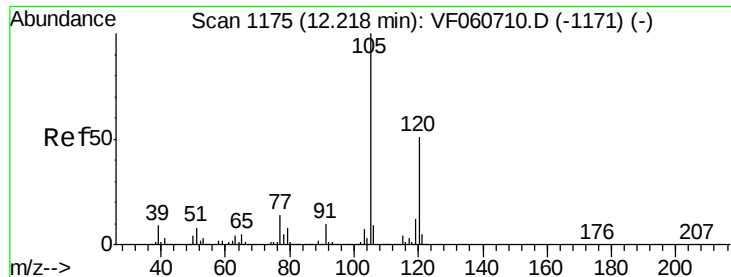
Ion Ratio Lower Upper

119 100

91 198.4 31.4 94.3#

134 0.0 12.8 38.4#

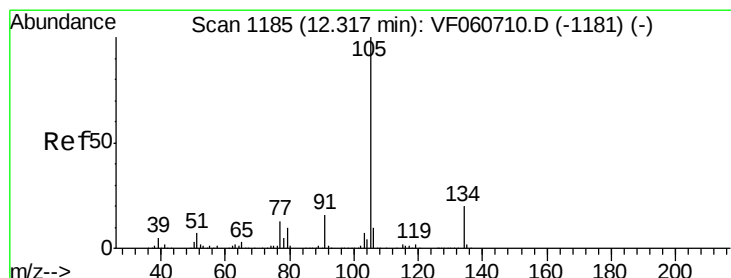
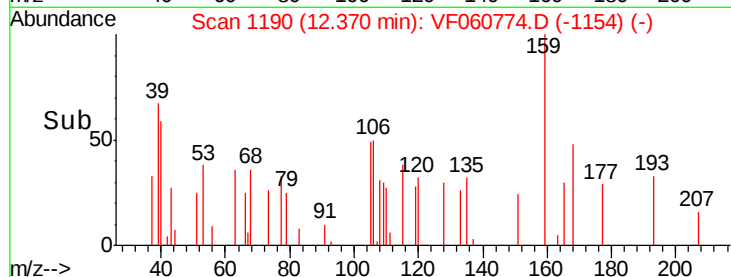
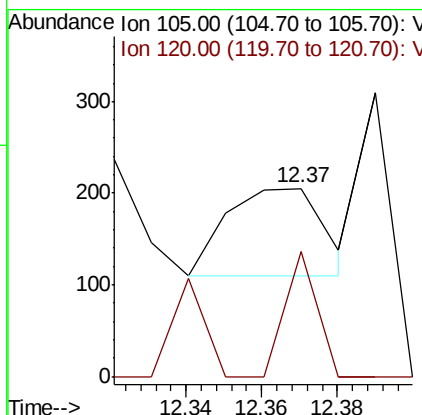
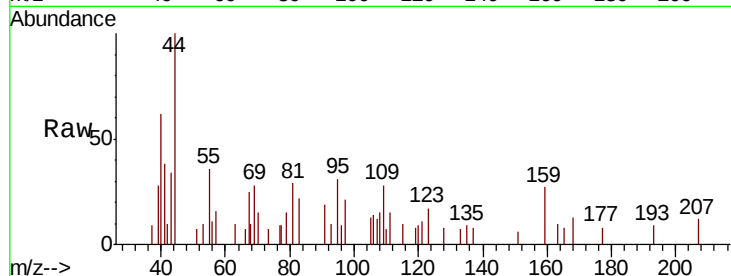




#84
 1,2,4-Trimethylbenzene
 Concen: 29.392 ug/l
 RT: 12.37 min Scan# 1190
 Delta R.T. 0.15 min
 Lab File: VF060774.D
 Acq: 16 Nov 2018 19:49

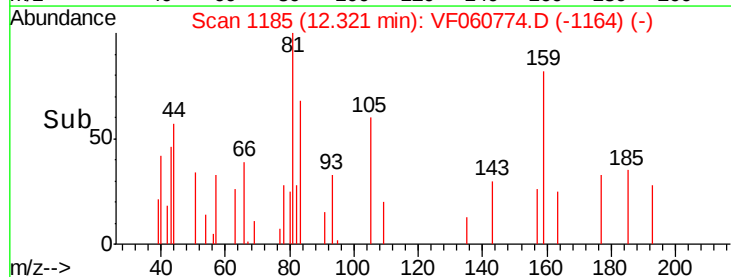
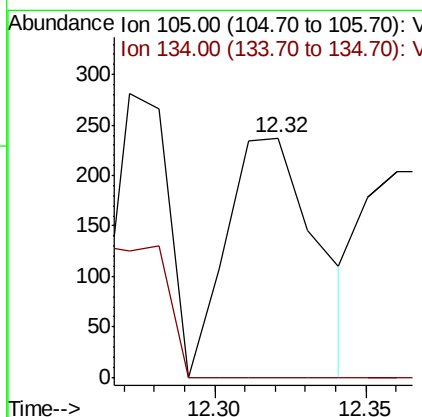
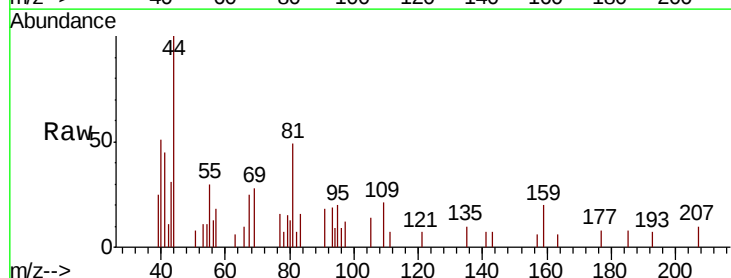
Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-111418-BRE

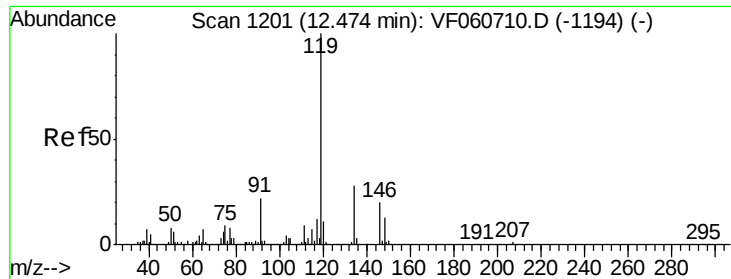
Tot Ion:105 Resp: 169
 Ion Ratio Lower Upper
 105 100
 120 66.3 25.5 76.5



#85
 sec-Butylbenzene
 Concen: 61.691 ug/l
 RT: 12.32 min Scan# 1185
 Delta R.T. 0.00 min
 Lab File: VF060774.D
 Acq: 16 Nov 2018 19:49

Tgt Ion:105 Resp: 494
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.3#

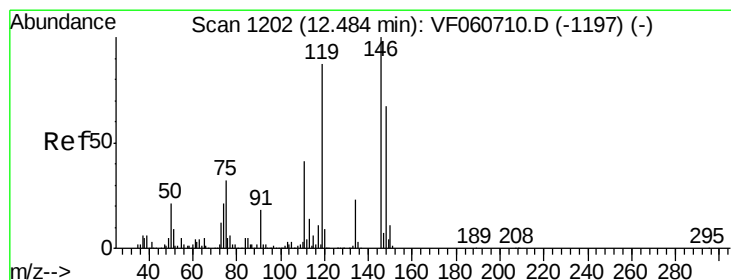
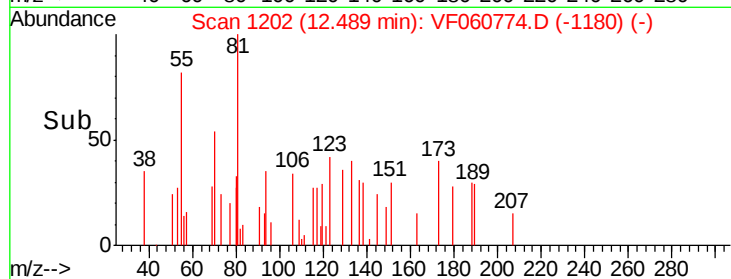
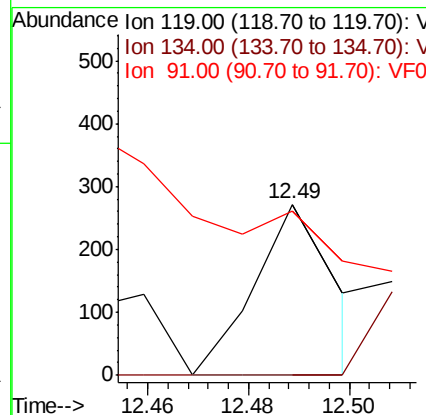
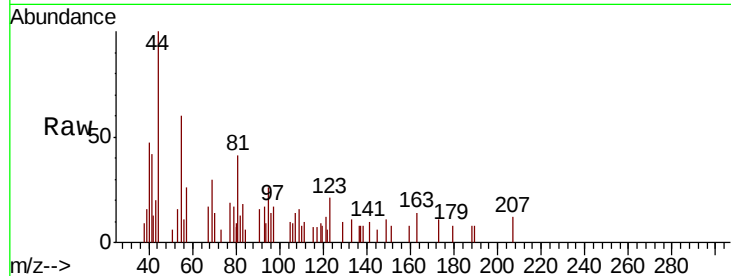




#86
 p-Isopropyltoluene
 Concen: 44.707 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF060774.D
 Acq: 16 Nov 2018 19:49

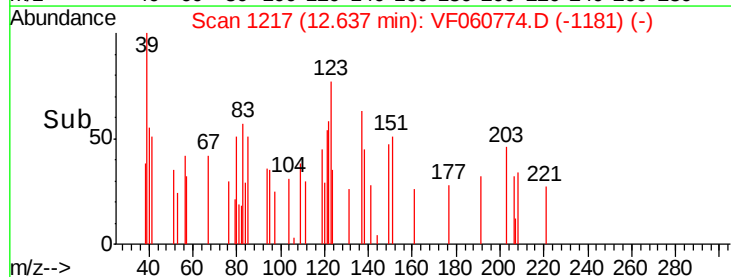
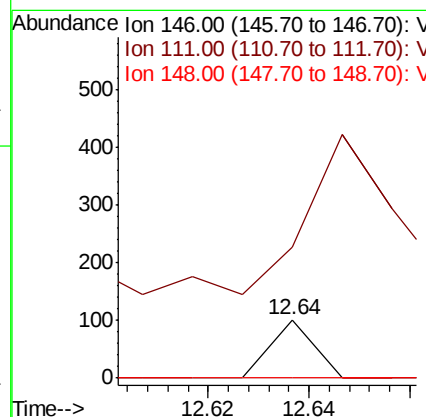
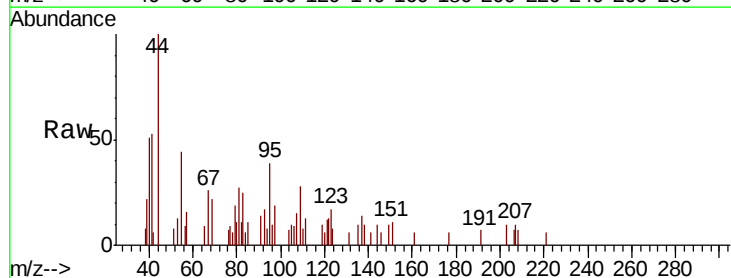
Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-111418-BRE

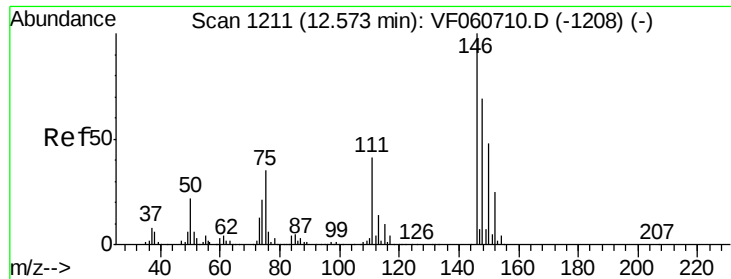
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.9	41.7#
91	95.6	11.3	33.9#



#87
 1,3-Dichlorobenzene
 Concen: 20.683 ug/l
 RT: 12.64 min Scan# 1217
 Delta R.T. 0.15 min
 Lab File: VF060774.D
 Acq: 16 Nov 2018 19:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	225.7	20.3	60.8#
148	0.0	33.3	99.9#

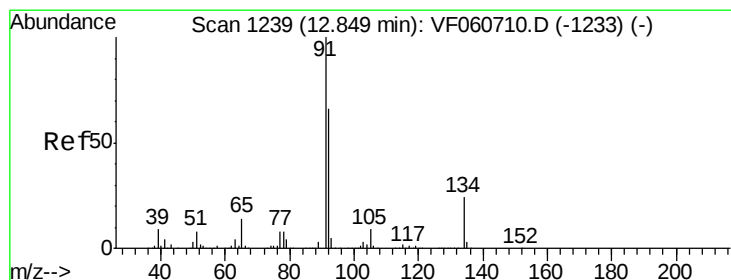
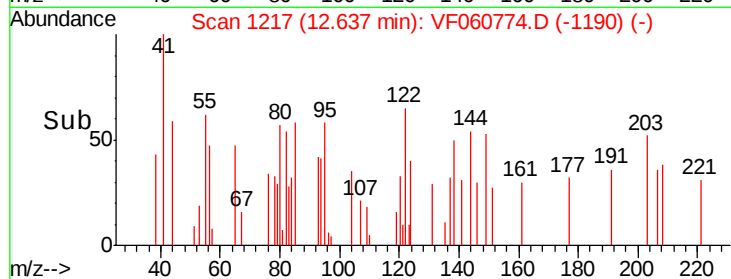
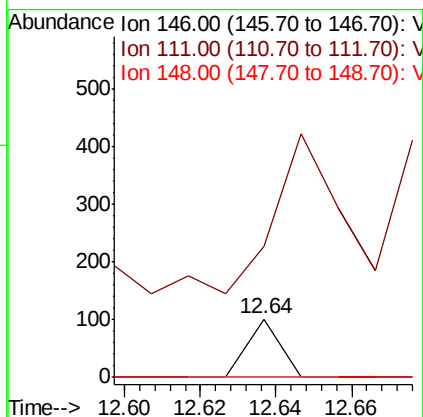
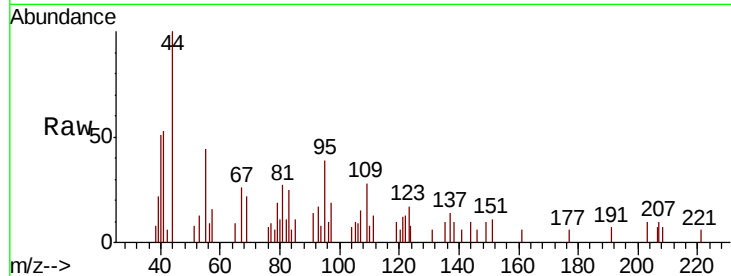




#88
 1,4-Dichlorobenzene
 Concen: 21.521 ug/l
 RT: 12.64 min Scan# 1217
 Delta R.T. 0.06 min
 Lab File: VF060774.D
 Acq: 16 Nov 2018 19:49

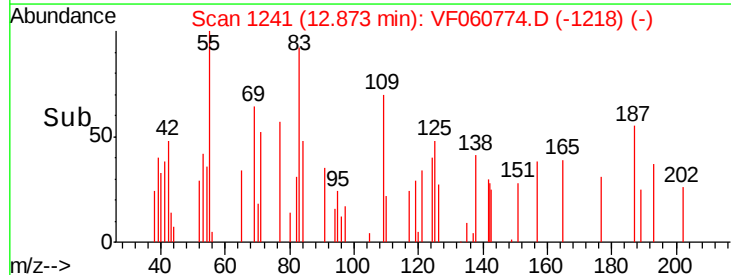
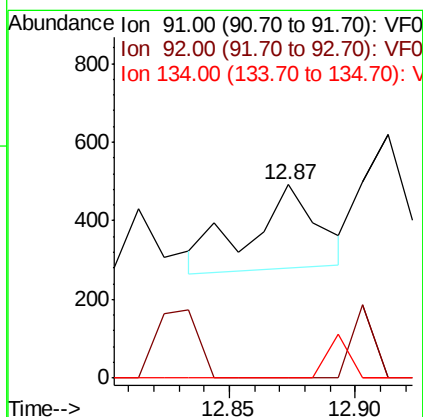
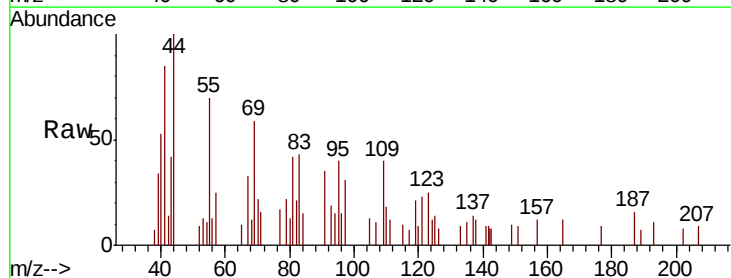
Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-111418-BRE

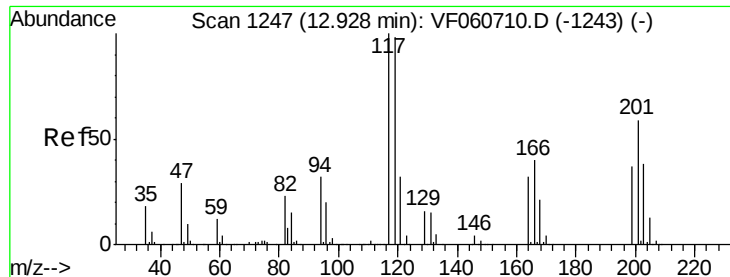
Tot Ion:146 Resp: 60
 Ion Ratio Lower Upper
 146 100
 111 225.7 20.6 61.9#
 148 0.0 34.7 104.1#



#89
 n-Butylbenzene
 Concen: 59.339 ug/l
 RT: 12.87 min Scan# 1241
 Delta R.T. 0.02 min
 Lab File: VF060774.D
 Acq: 16 Nov 2018 19:49

Tgt Ion: 91 Resp: 405
 Ion Ratio Lower Upper
 91 100
 92 0.0 33.1 99.2#
 134 0.0 11.9 35.9#





#90

Hexachloroethane

Concen: 47.072 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

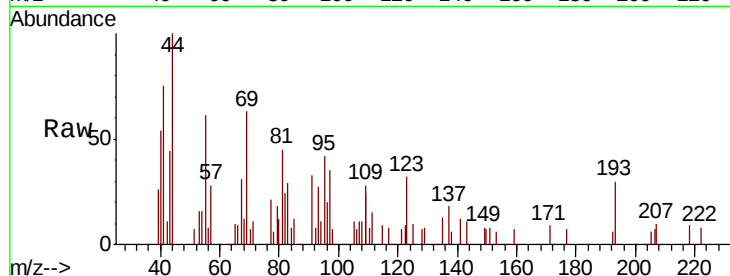
CL-01-111418-BRE

Tot Ion:117 Resp: 77

Ion Ratio Lower Upper

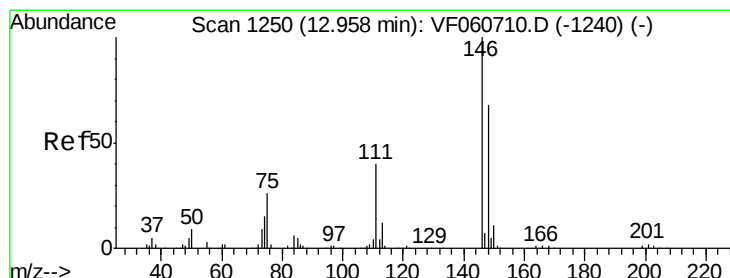
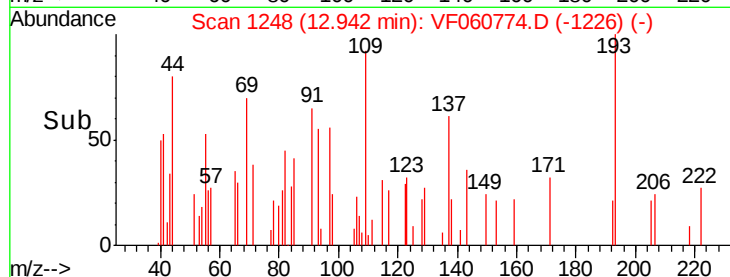
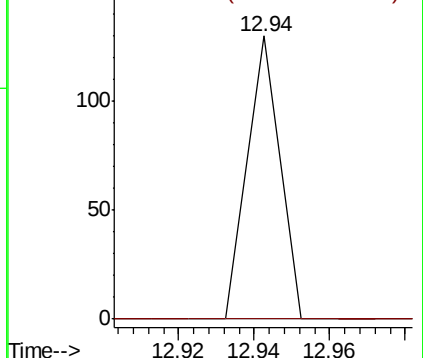
117 100

201 0.0 29.4 88.3#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#91

1,2-Dichlorobenzene

Concen: 24.164 ug/l

RT: 12.95 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

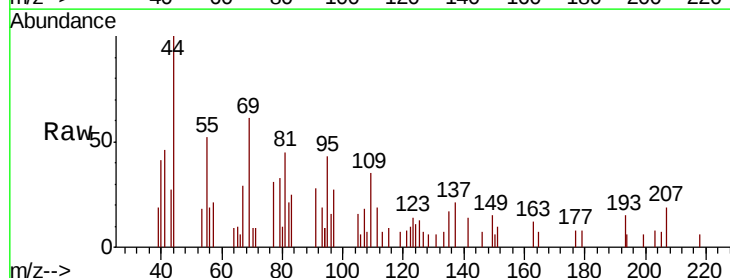
Tgt Ion:146 Resp: 66

Ion Ratio Lower Upper

146 100

111 284.7 20.3 60.8#

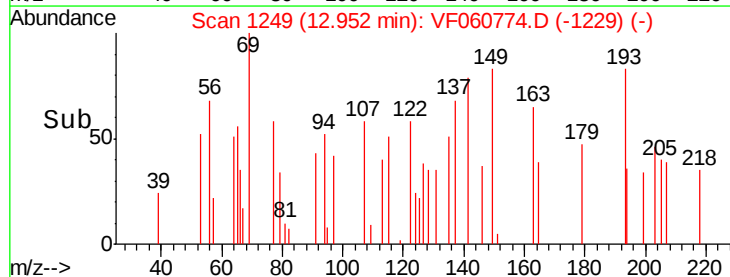
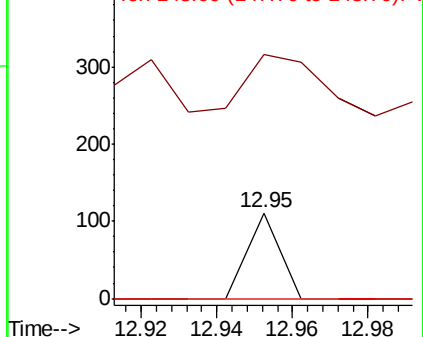
148 0.0 34.1 102.3#

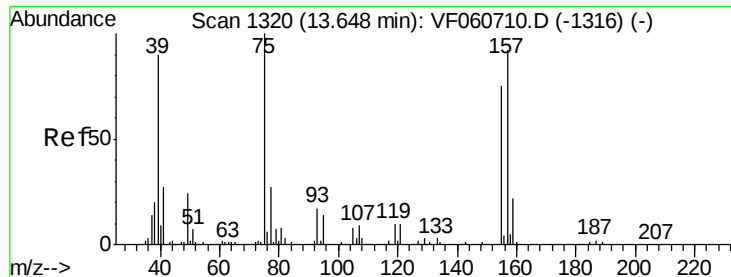


Abundance Ion 146.00 (145.70 to 146.70): V

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: 381.418 ug/l

RT: 13.67 min Scan# 1322

Delta R.T. 0.02 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

Instrument :

MSVOA_F

ClientSampleId :

CL-01-111418-BRE

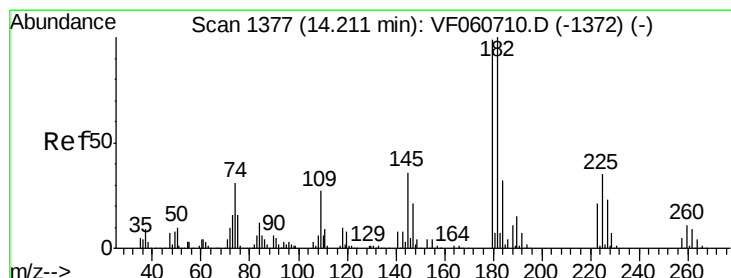
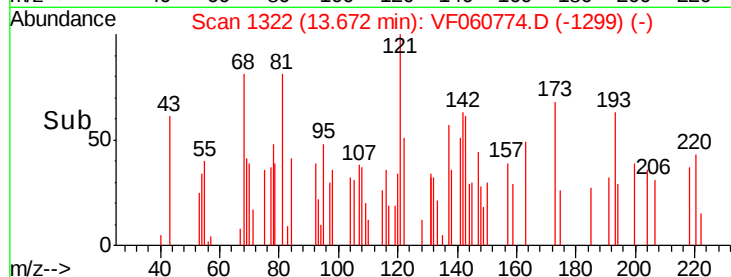
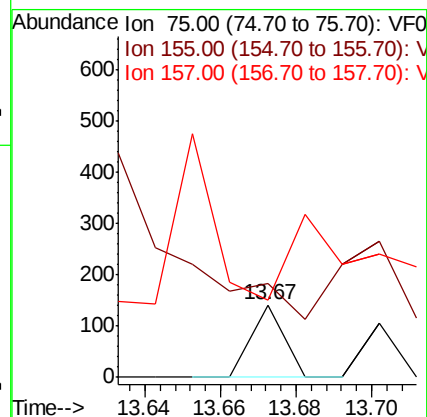
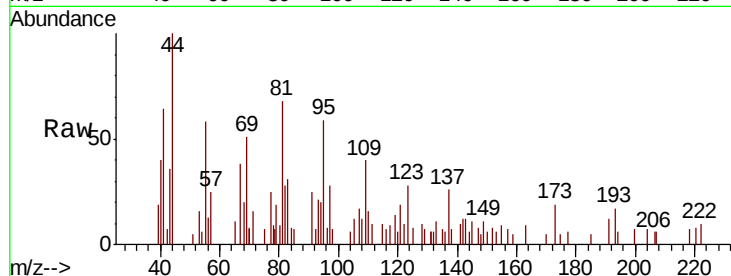
Tot Ion: 75 Resp: 83

Ion Ratio Lower Upper

75 100

155 130.5 37.4 112.2#

157 106.4 46.0 138.0



#93

1,2,4-Trichlorobenzene

Concen: 41.260 ug/l

RT: 14.11 min Scan# 1366

Delta R.T. -0.10 min

Lab File: VF060774.D

Acq: 16 Nov 2018 19:49

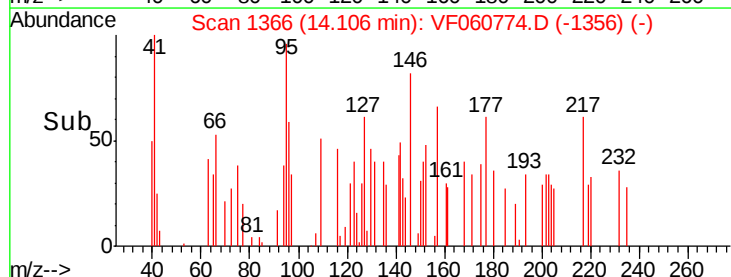
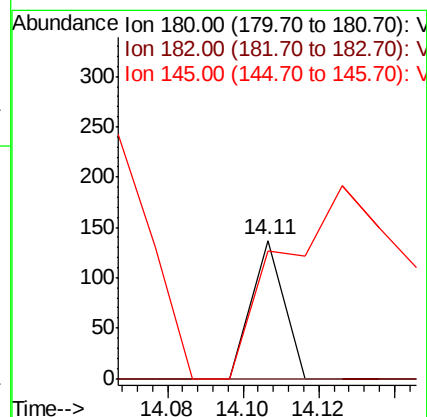
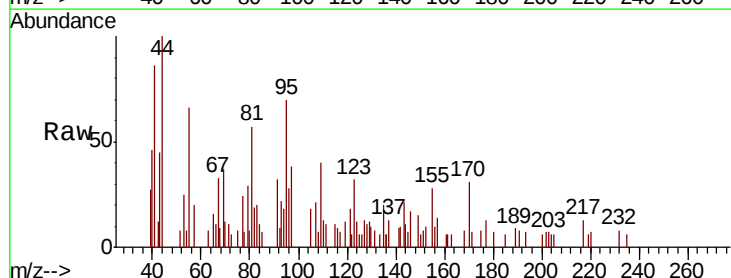
Tgt Ion: 180 Resp: 81

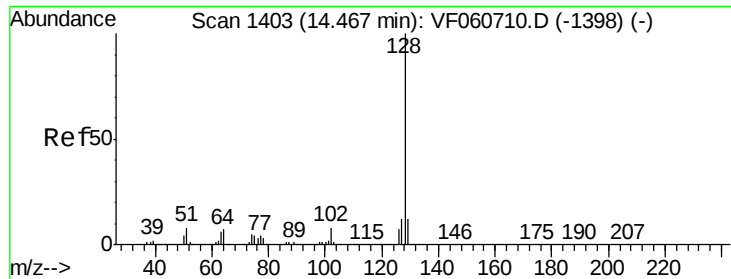
Ion Ratio Lower Upper

180 100

182 0.0 50.3 151.0#

145 92.7 18.3 54.9#





#95
Naphthalene
Concen: 39.920 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF060774.D
Acq: 16 Nov 2018 19:49

Instrument :
MSVOA_F
ClientSampleId :
CL-01-111418-BRE

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.8	14.6#
129	0.0	9.3	13.9#

