

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122218\
 Data File : VW007768.D
 Acq On : 21 Dec 2018 00:28
 Operator : SY/AP
 Sample : J6392-08RE
 Misc : 6.73G/5ML/MSVOA W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 KY001SB103-121118-(25-27)RE

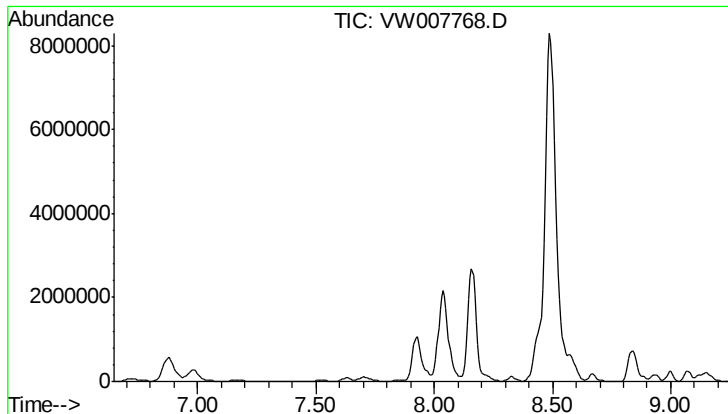
Quant Time: Dec 21 03:58:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 06:30:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-7.95
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-8.84
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-11.63
72) 1,4-Dichlorobenzene-d4	13.58	152	1314	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	8779	0.00	ug/l	-0.15
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	10.32	98	44665	0.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	0.00%	
62) 4-Bromofluorobenzene	12.61	95	31978	0.00	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
73) Isopropylbenzene	12.47	105	1537807	15482.772	ug/l	99
74) N-amyl acetate	12.26	43	140085	8142.429	ug/l #	68
75) 1,1,2,2-Tetrachloroethane	12.71	83	8154	547.542	ug/l #	1
76) 1,2,3-Trichloropropane	12.81	75	24995	2461.109	ug/l #	100
77) Bromobenzene	12.71	156	376	16.518	ug/l #	1
78) n-propylbenzene	12.81	91	3720392	32177.971	ug/l	99
79) 2-Chlorotoluene	12.95	91	371816	5520.345	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.95	105	3414835	39858.530	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.47	75	18873	3900.732	ug/l #	58
82) 4-Chlorotoluene	12.95	91	371816	5184.568	ug/l #	42
83) tert-Butylbenzene	13.21	119	12940	172.138	ug/l #	25
84) 1,2,4-Trimethylbenzene	13.26	105	550168	6364.023	ug/l	99
85) sec-Butylbenzene	13.39	105	351377	3391.639	ug/l #	48
86) p-Isopropyltoluene	13.51	119	168167	1785.102	ug/l	99
89) n-Butylbenzene	13.80	91	580946	6725.857	ug/l #	1
90) Hexachloroethane	14.10	117	163719	9899.053	ug/l #	13
91) 1,2-Dichlorobenzene	13.91	146	163	4.028	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	14.51	75	2080	680.121	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.16	180	186	6.622	ug/l #	12
95) Naphthalene	15.37	128	32379	623.504	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.59	180	208	8.651	ug/l #	22

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



#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 7.95 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Tot Ion: 168

Sig Exp Ratio

168 100

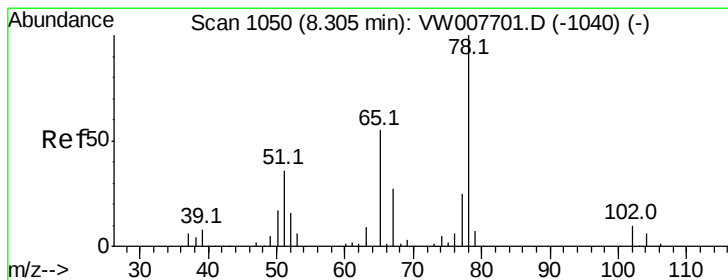
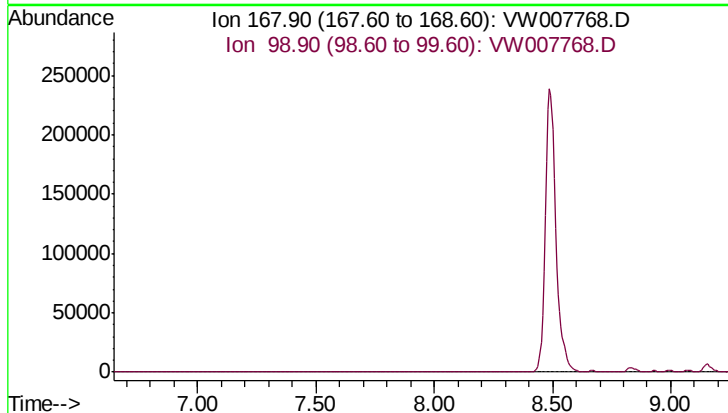
99 67.5

Instrument :

MSVOA_W

ClientSampleId :

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#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 8.16 min Scan# 1026

Delta R.T. -0.15 min

Lab File: VW007768.D

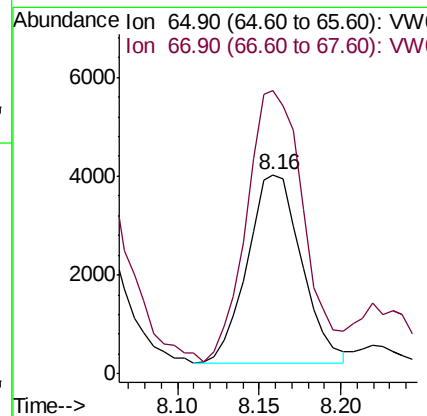
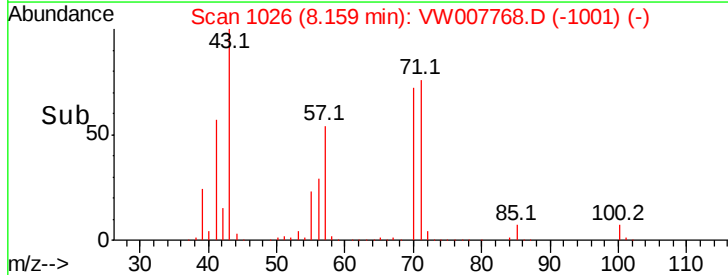
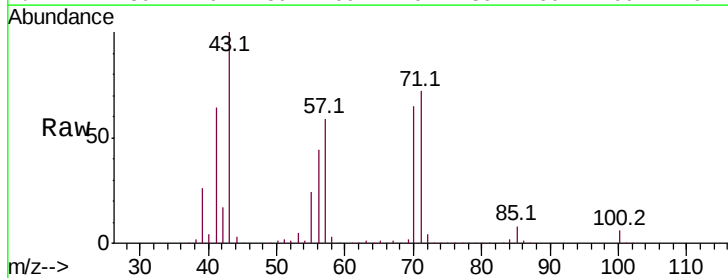
Acq: 21 Dec 2018 00:28

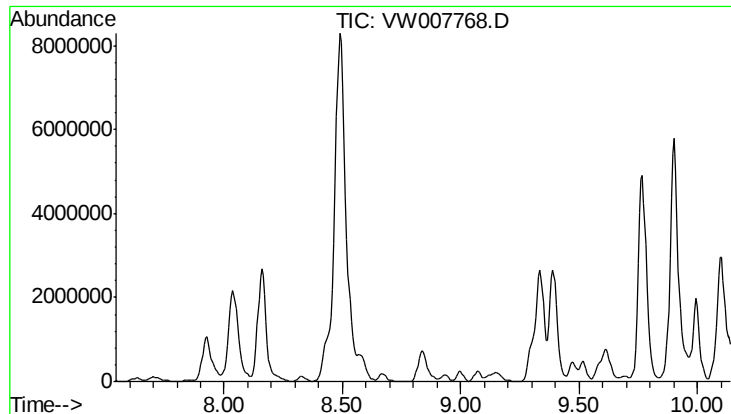
Tgt Ion: 65 Resp: 8779

Ion Ratio Lower Upper

65 100

67 151.4 0.0 100.6#





#34

1,4-Difluorobenzene

Concen: 0.000 ug/l

Expected RT: 8.84 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

KY001SB103-121118-(25-27)RE

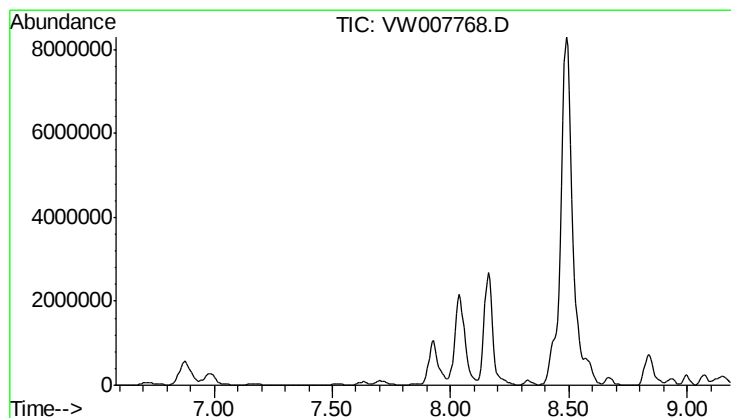
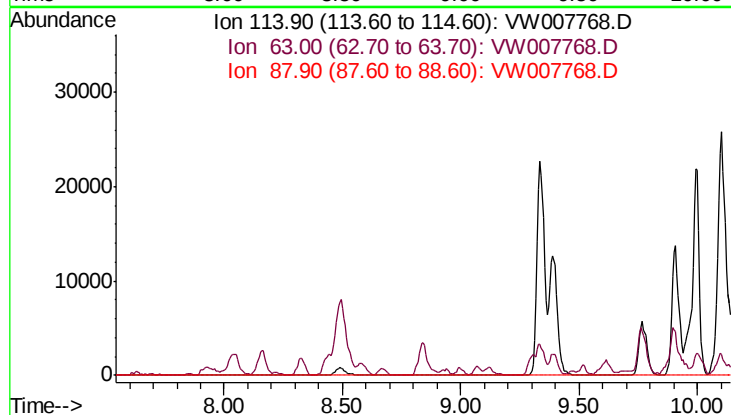
Tot Ion: 114

Sig Exp Ratio

114 100

63 20.0

88 16.3



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 7.88 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

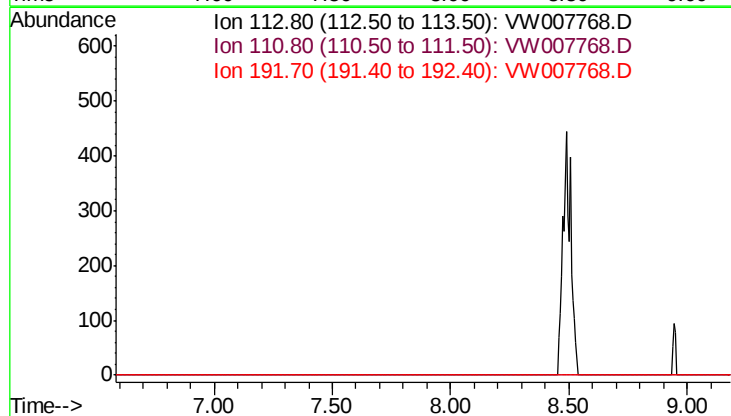
Tgt Ion: 113

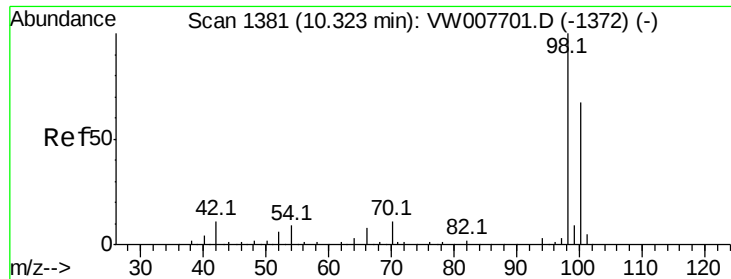
Sig Exp Ratio

113 100

111 103.3

192 19.4





#50

Toluene-d8

Concen: 0.000 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

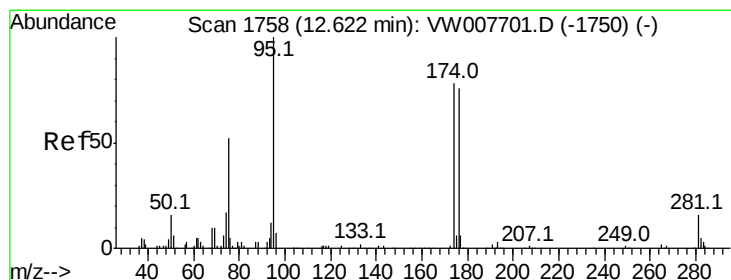
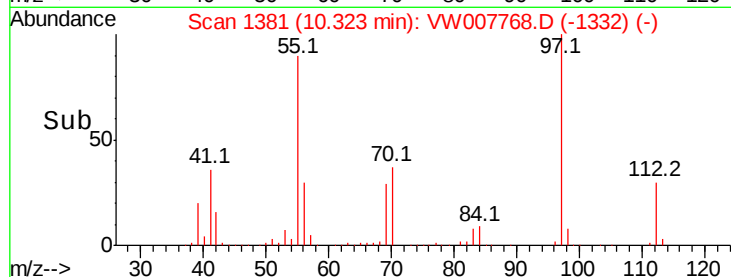
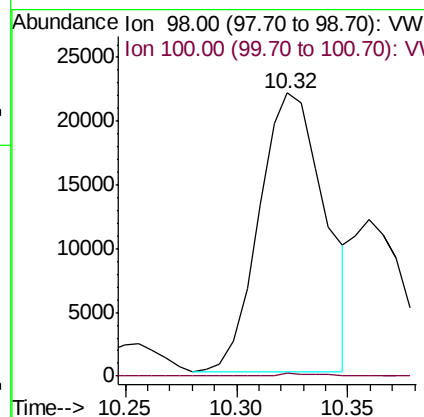
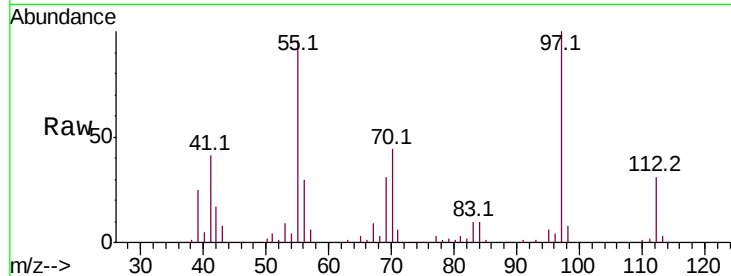
KY001SB103-121118-(25-27)RE

Tot Ion: 98 Resp: 44665

Ion Ratio Lower Upper

98 100

100 0.7 52.2 78.2#



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

RT: 12.61 min Scan# 1756

Delta R.T. -0.01 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

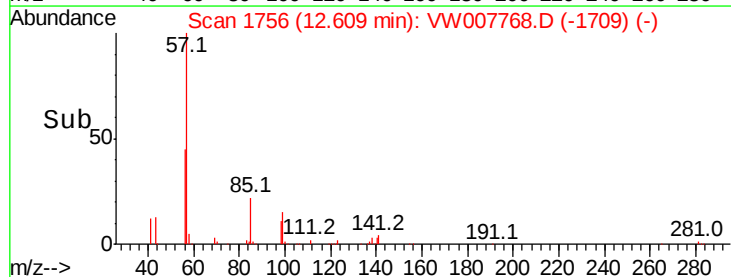
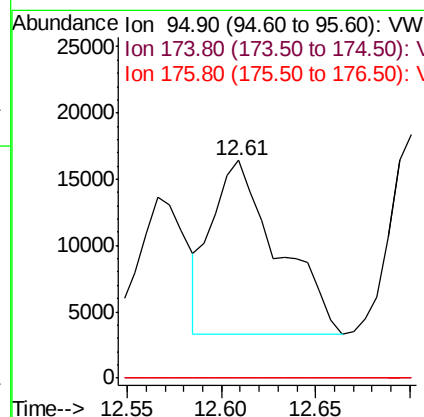
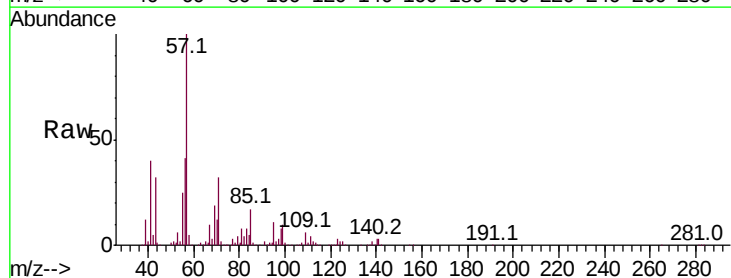
Tgt Ion: 95 Resp: 31978

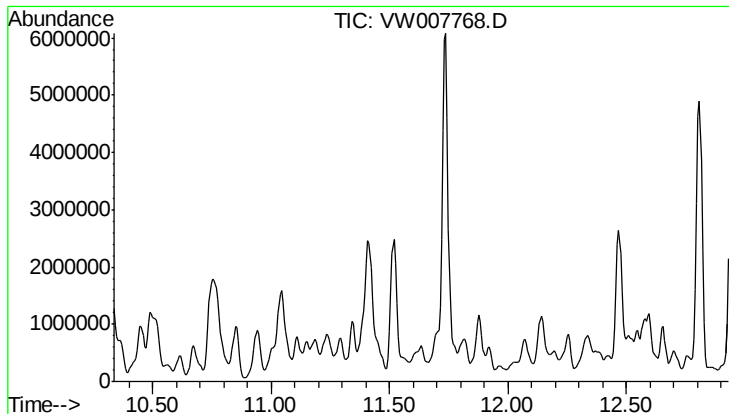
Ion Ratio Lower Upper

95 100

174 0.0 0.0 152.2

176 0.0 0.0 146.8





#63

Chlorobenzene-d5

Concen: 0.000 ug/l

Expected RT: 11.63 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

KY001SB103-121118-(25-27)RE

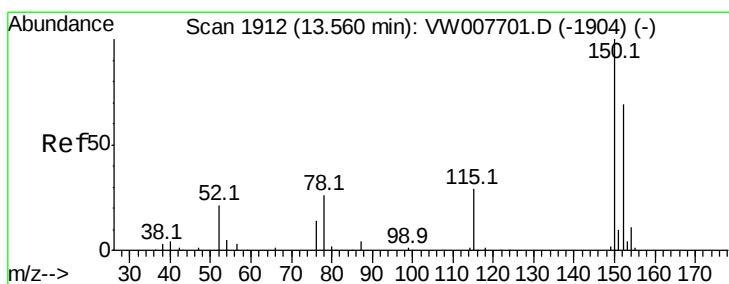
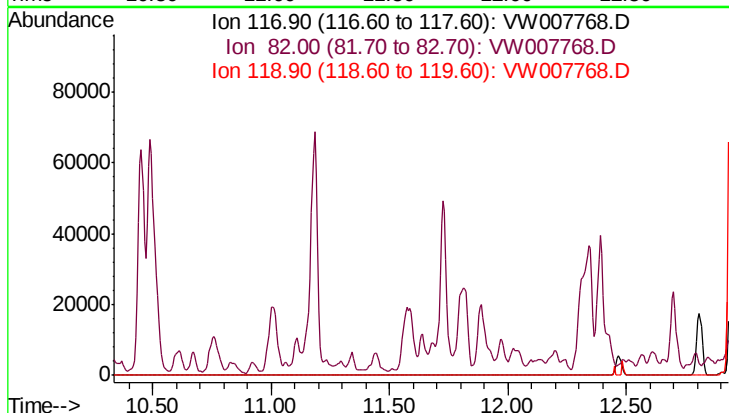
Tot Ion: 117

Sig Exp Ratio

117 100

82 55.4

119 32.1



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1916

Delta R.T. 0.02 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

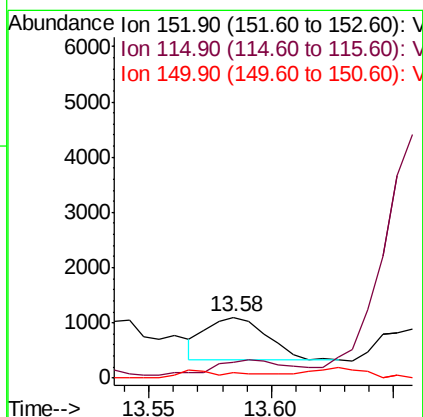
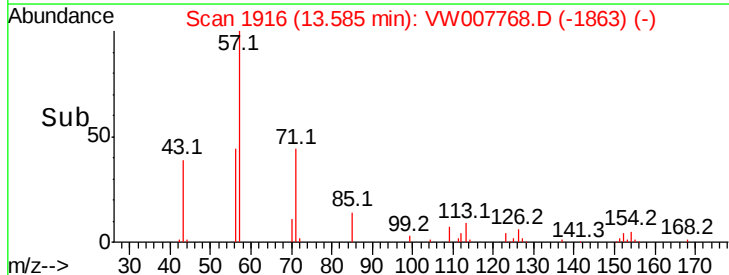
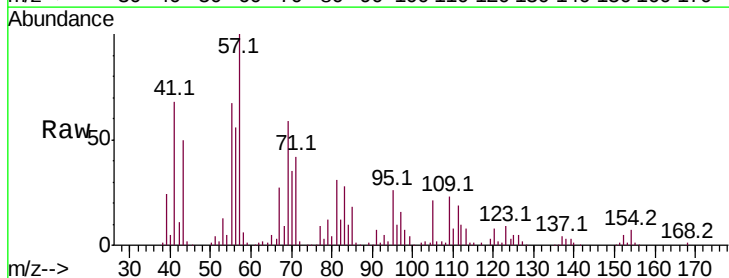
Tgt Ion:152 Resp: 1314

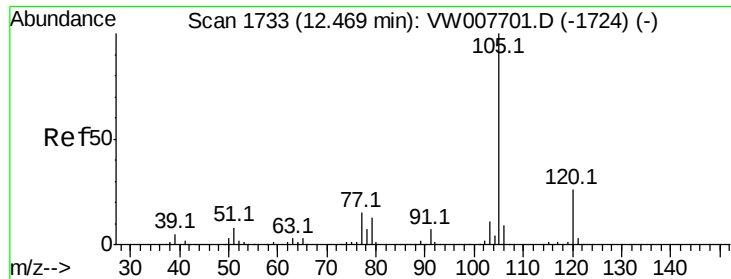
Ion Ratio Lower Upper

152 100

115 0.0 31.8 95.4#

150 10.9 0.0 350.8





#73

Isopropylbenzene

Concen: 15482.772 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

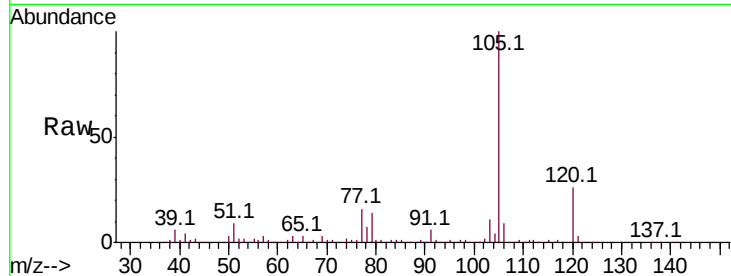
KY001SB103-121118-(25-27)RE

Tot Ion:105 Resp: 1537807

Ion Ratio Lower Upper

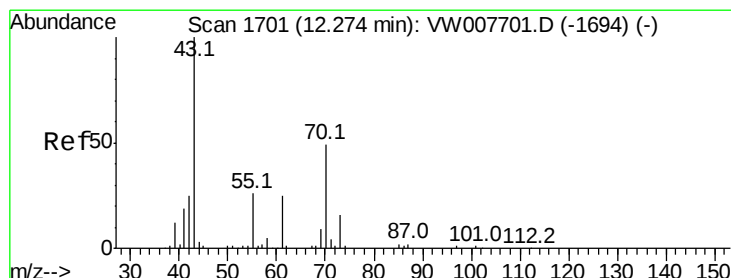
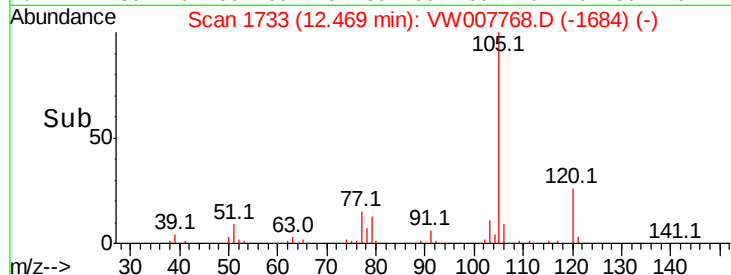
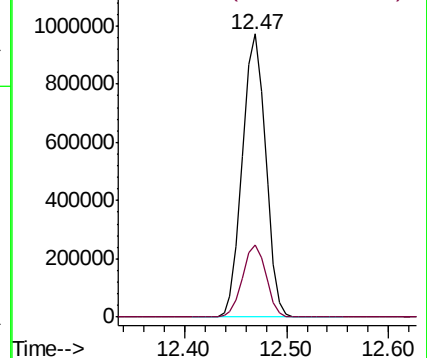
105 100

120 25.8 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 8142.429 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Tgt Ion: 43 Resp: 140085

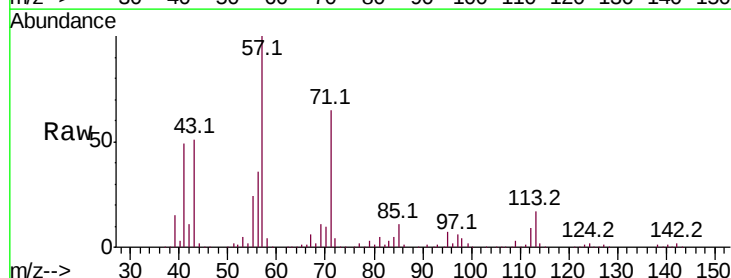
Ion Ratio Lower Upper

43 100

70 24.2 37.6 56.4#

55 20.6 21.7 32.5#

61 0.0 20.1 30.1#

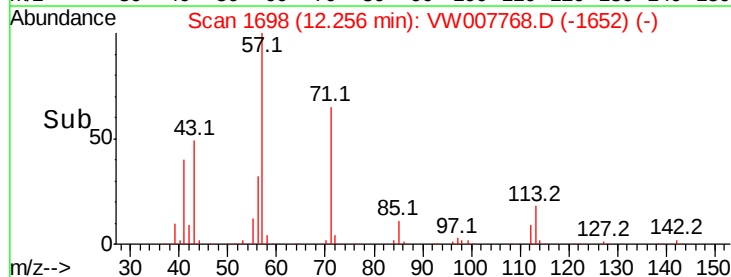
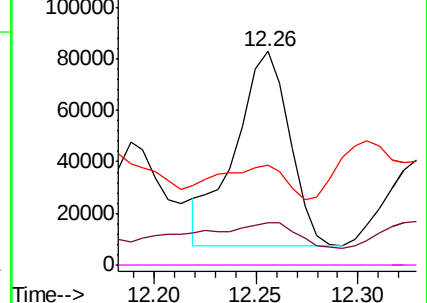


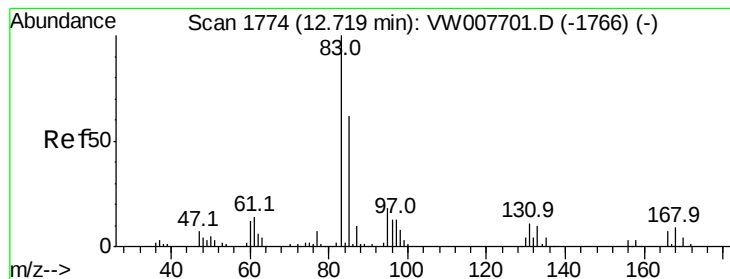
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 547.542 ug/l

RT: 12.71 min Scan# 1772

Delta R.T. -0.01 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

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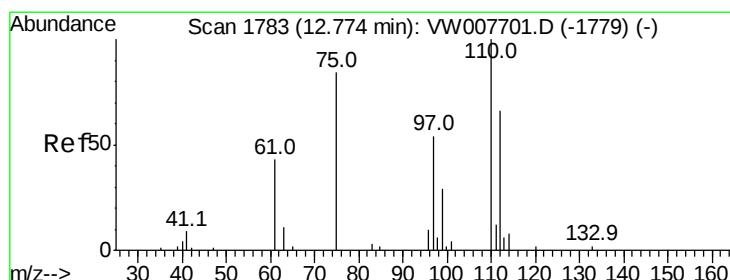
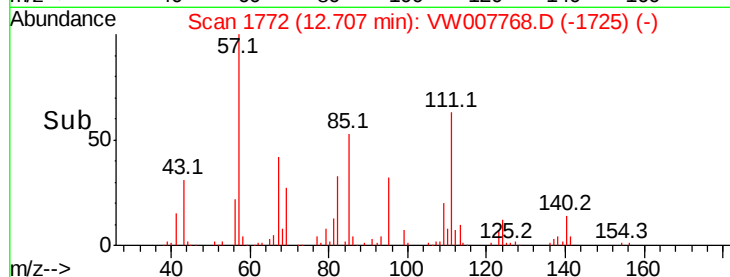
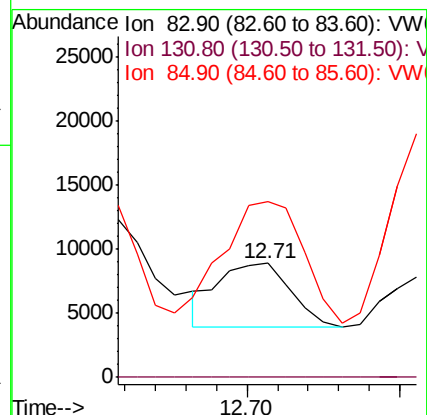
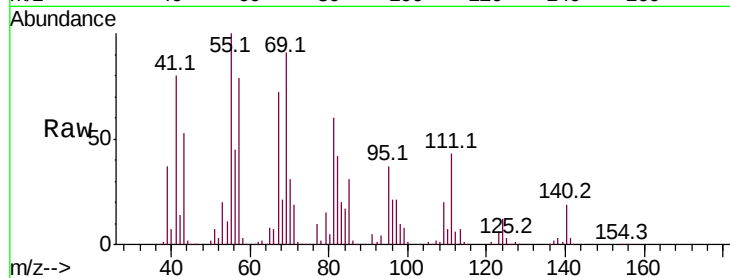
Tot Ion: 83 Resp: 8154

Ion Ratio Lower Upper

83 100

131 0.0 6.3 18.8#

85 239.1 32.3 96.8#



#76

1,2,3-Trichloropropane

Concen: 2461.109 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.04 min

Lab File: VW007768.D

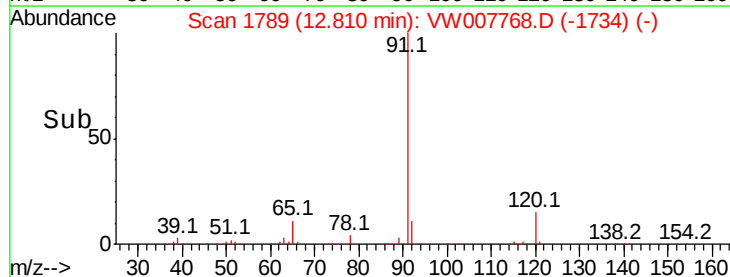
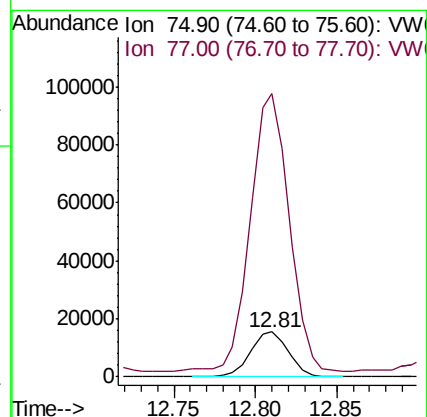
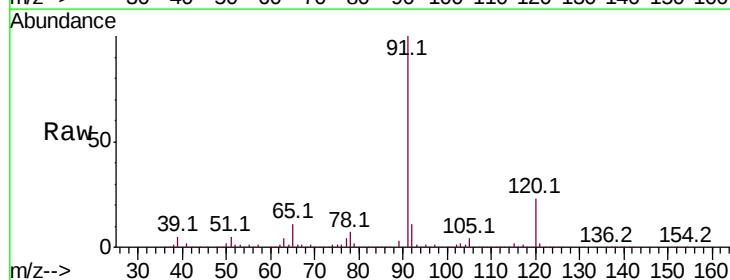
Acq: 21 Dec 2018 00:28

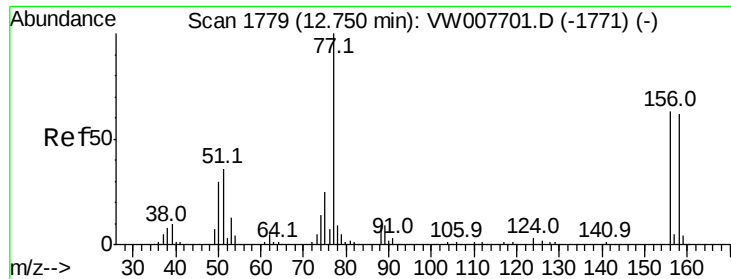
Tgt Ion: 75 Resp: 24995

Ion Ratio Lower Upper

75 100

77 632.3 0.0 0.0#





#77

Bromobenzene

Concen: 16.518 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.04 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

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ClientSampleId :

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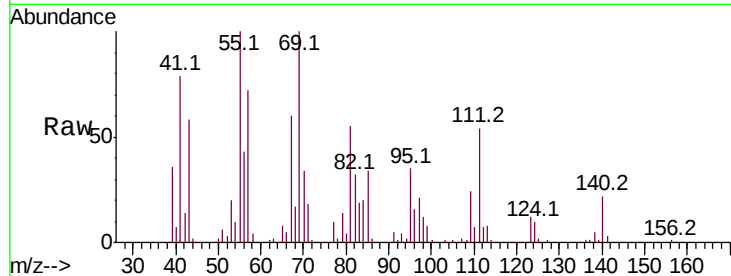
Tot Ion:156 Resp: 376

Ion Ratio Lower Upper

156 100

77 0.0 87.4 262.1#

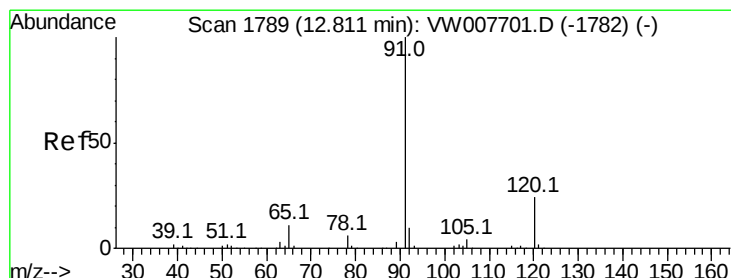
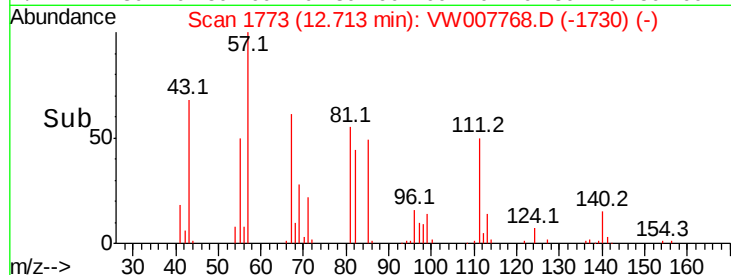
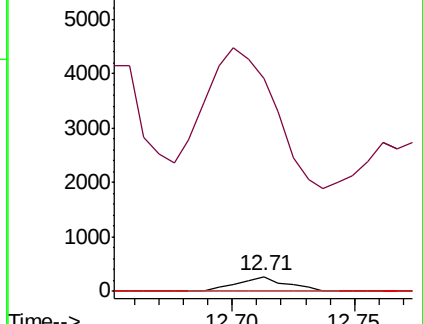
158 0.0 48.4 145.0#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 32177.971 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW007768.D

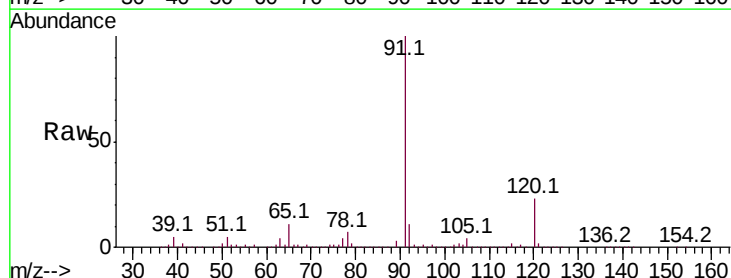
Acq: 21 Dec 2018 00:28

Tgt Ion: 91 Resp: 3720392

Ion Ratio Lower Upper

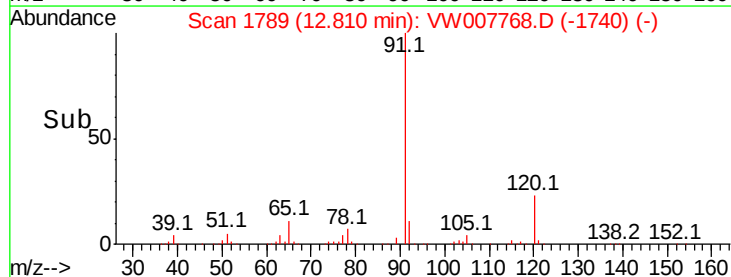
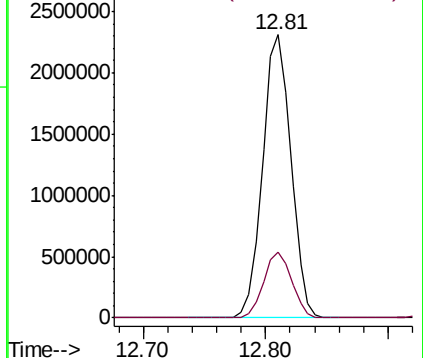
91 100

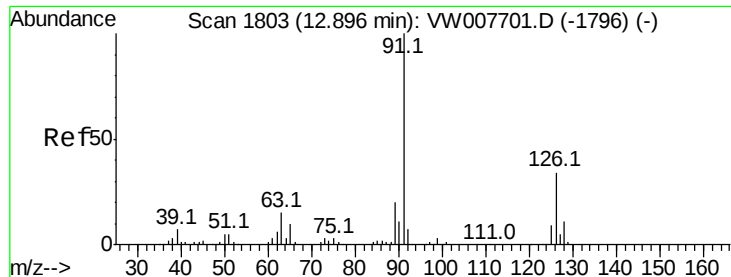
120 23.1 11.9 35.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5520.345 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. 0.05 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

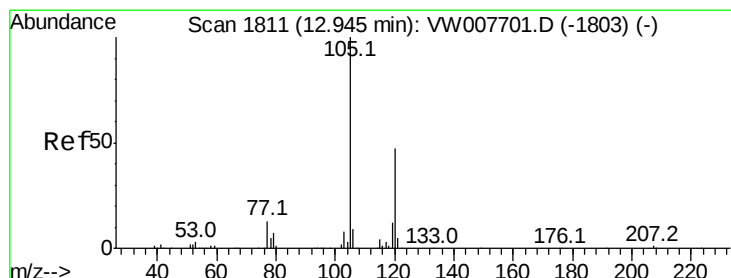
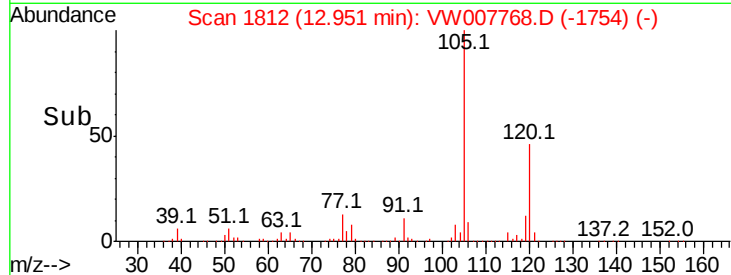
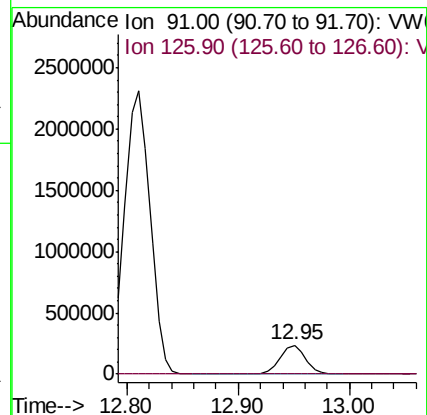
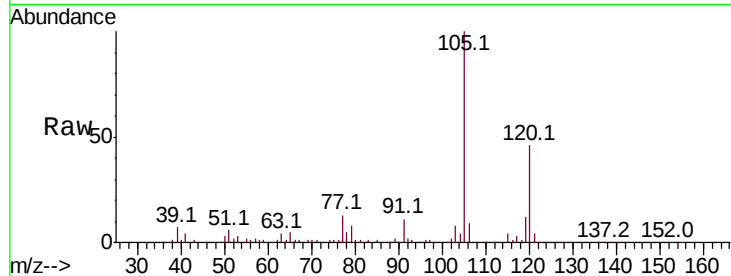
KY001SB103-121118-(25-27)RE

Tot Ion: 91 Resp: 371816

Ion Ratio Lower Upper

91 100

126 0.4 17.0 51.0#



#80

1,3,5-Trimethylbenzene

Concen: 39858.530 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. 0.01 min

Lab File: VW007768.D

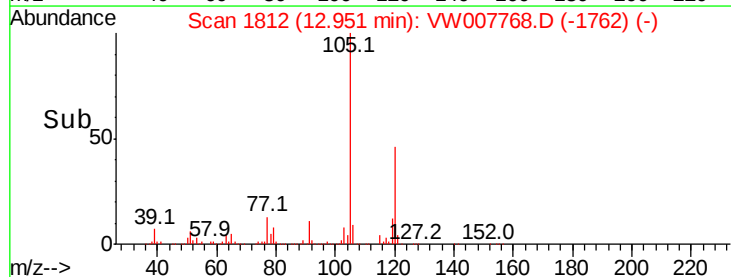
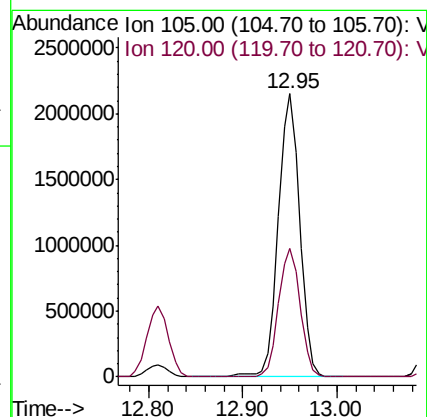
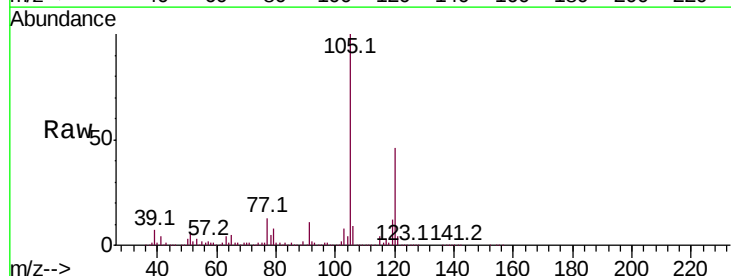
Acq: 21 Dec 2018 00:28

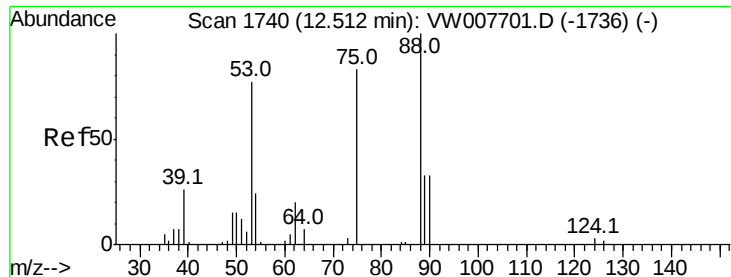
Tgt Ion:105 Resp: 3414835

Ion Ratio Lower Upper

105 100

120 45.9 23.6 70.8





#81

trans-1,4-Dichloro-2-butene

Concen: 3900.732 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.04 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

KY001SB103-121118-(25-27)RE

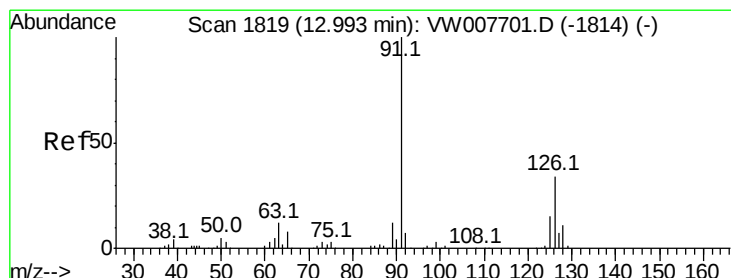
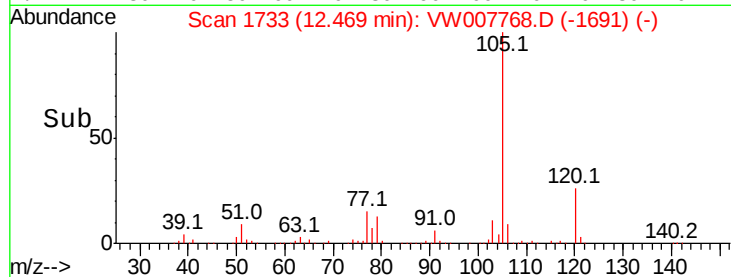
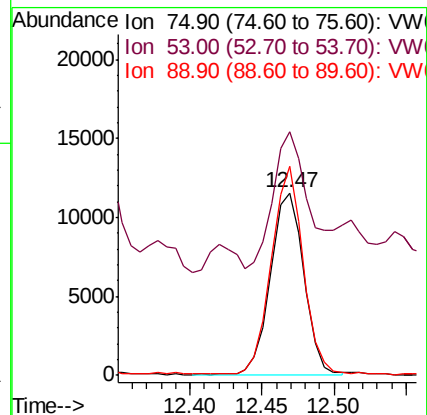
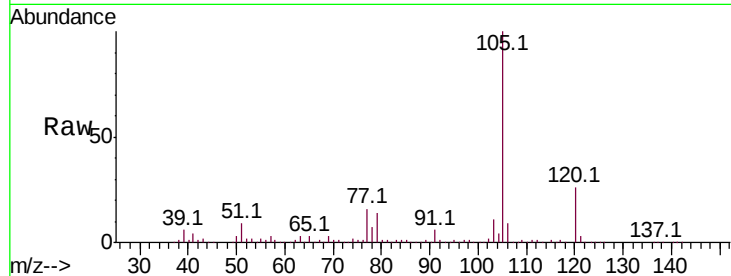
Tot Ion: 75 Resp: 18873

Ion Ratio Lower Upper

75 100

53 80.1 80.2 120.2#

89 107.2 39.2 58.8#



#82

4-Chlorotoluene

Concen: 5184.568 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.04 min

Lab File: VW007768.D

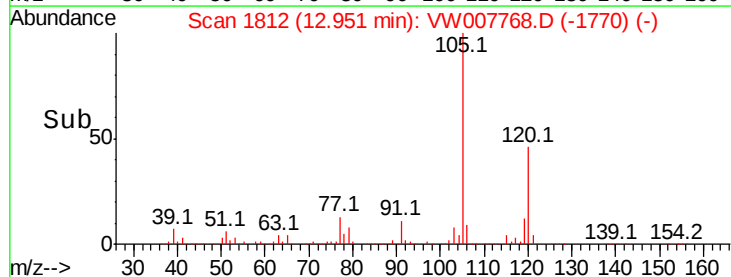
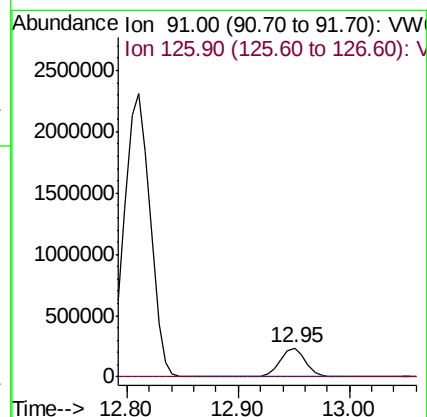
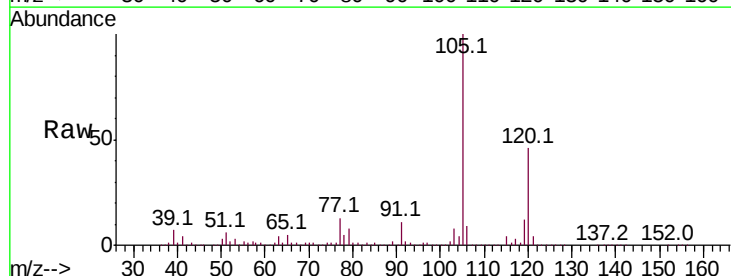
Acq: 21 Dec 2018 00:28

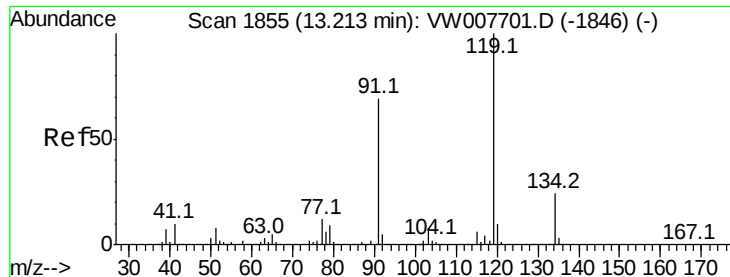
Tgt Ion: 91 Resp: 371816

Ion Ratio Lower Upper

91 100

126 0.4 16.5 49.5#





#83

tert-Butylbenzene

Concen: 172.138 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

KY001SB103-121118-(25-27)RE

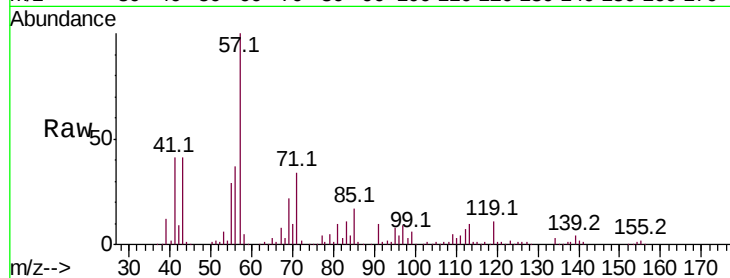
Tot Ion:119 Resp: 12940

Ion Ratio Lower Upper

119 100

91 0.0 34.2 102.5#

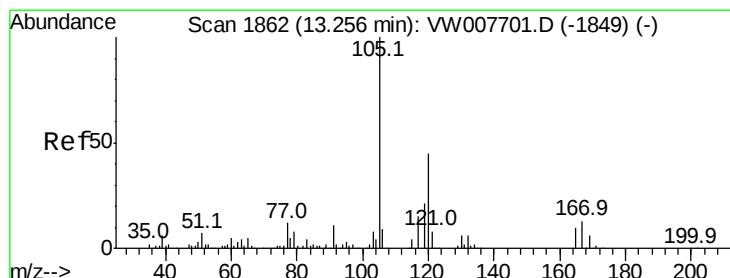
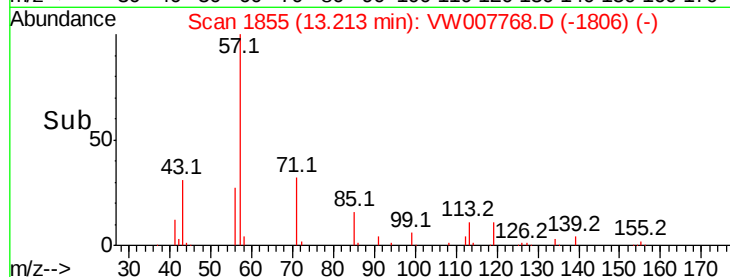
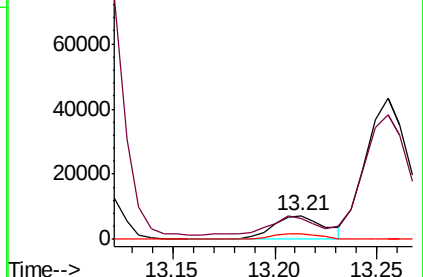
134 0.0 12.8 38.4#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VW

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 6364.023 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW007768.D

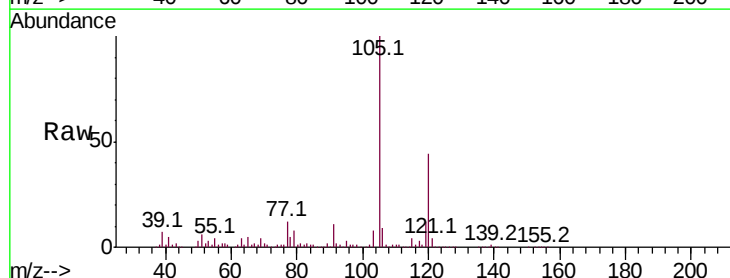
Acq: 21 Dec 2018 00:28

Tgt Ion:105 Resp: 550168

Ion Ratio Lower Upper

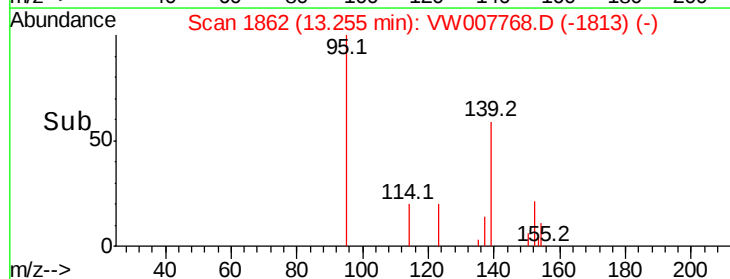
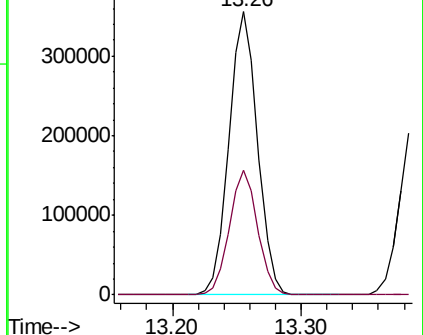
105 100

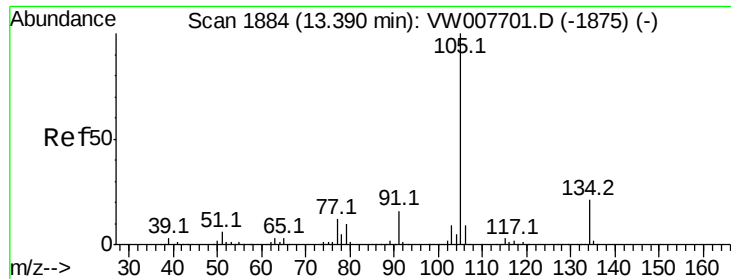
120 43.7 22.0 66.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 3391.639 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

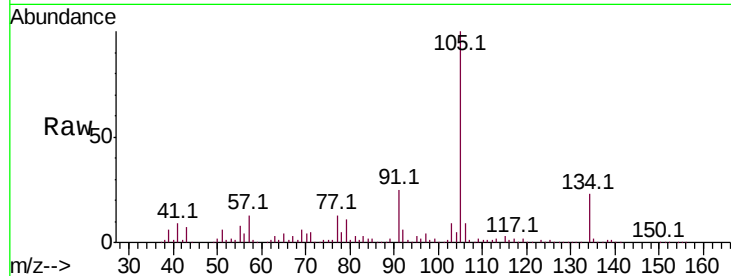
KY001SB103-121118-(25-27)RE

Tot Ion:105 Resp: 351377

Ion Ratio Lower Upper

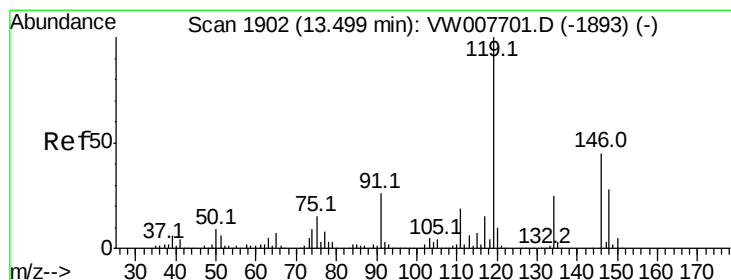
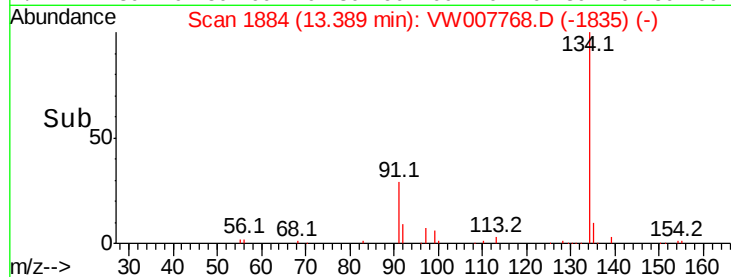
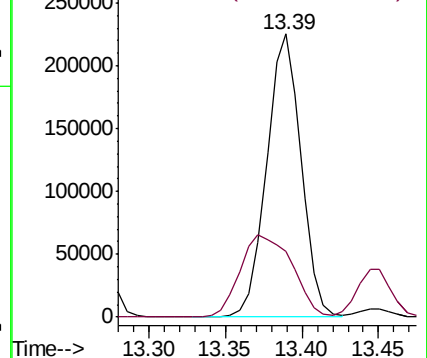
105 100

134 44.2 10.2 30.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1785.102 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. 0.01 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

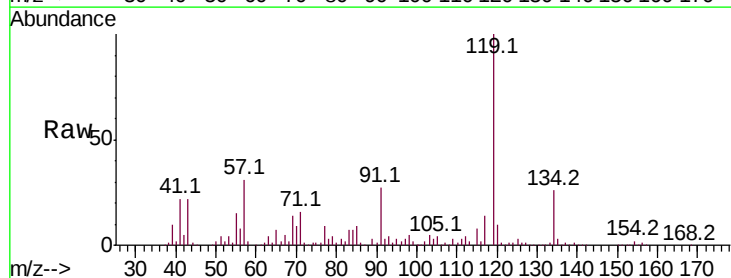
Tgt Ion:119 Resp: 168167

Ion Ratio Lower Upper

119 100

134 25.4 13.0 39.0

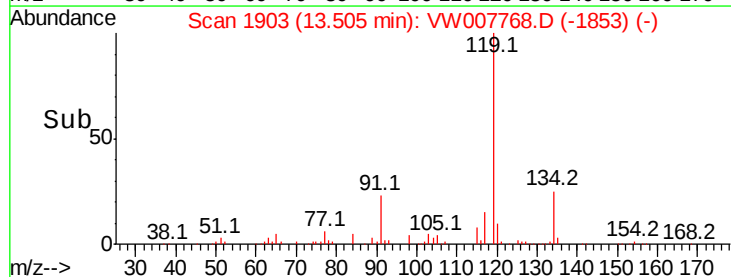
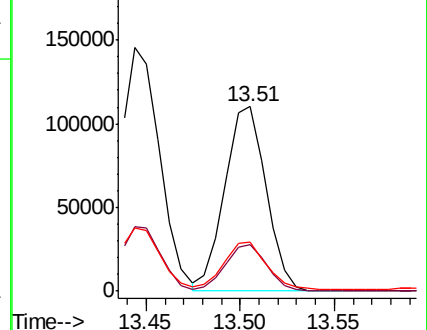
91 26.5 12.8 38.4

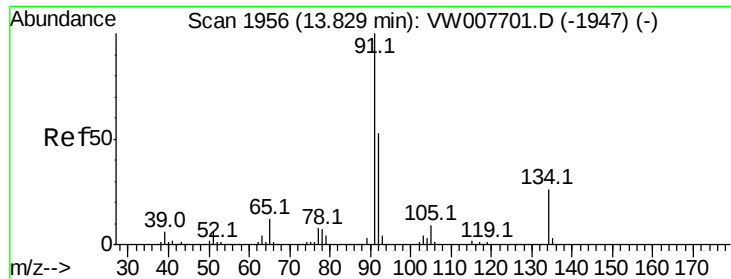


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 6725.857 ug/l

RT: 13.80 min Scan# 1951

Delta R.T. -0.03 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

KY001SB103-121118-(25-27)RE

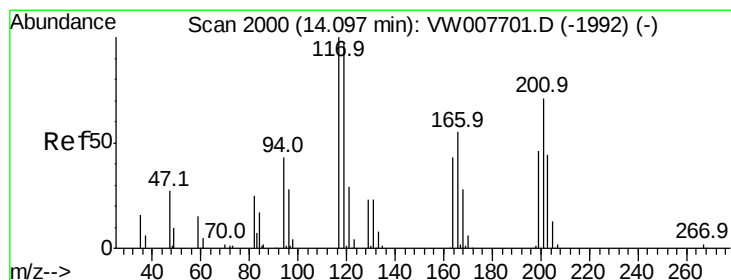
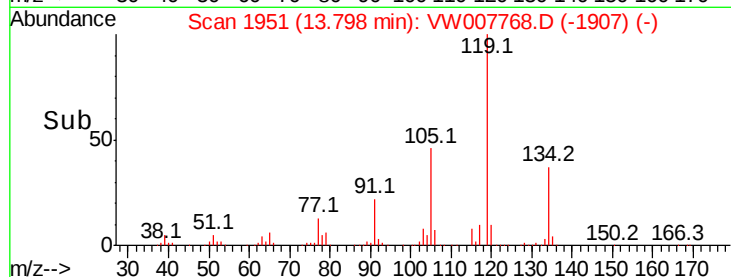
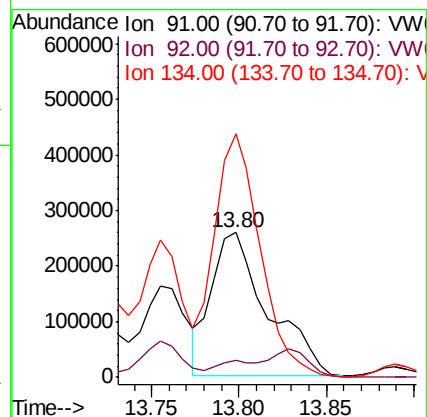
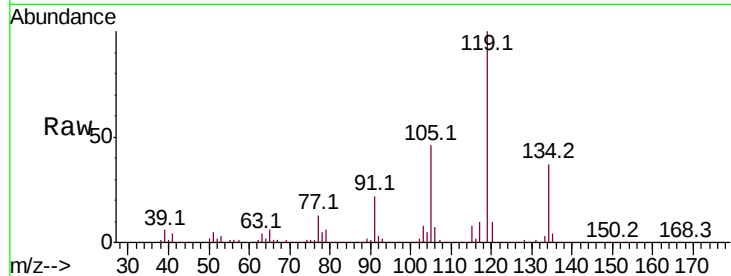
Tot Ion: 91 Resp: 580946

Ion Ratio Lower Upper

91 100

92 7.9 26.4 79.2#

134 138.0 13.7 41.0#



#90

Hexachloroethane

Concen: 9899.053 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW007768.D

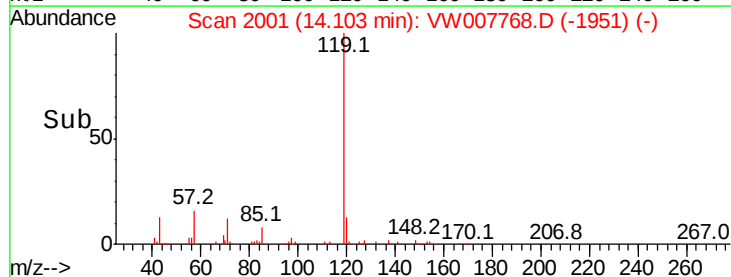
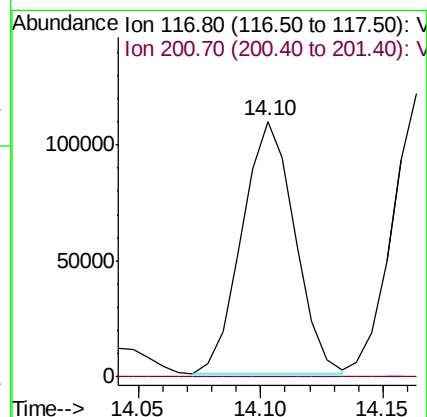
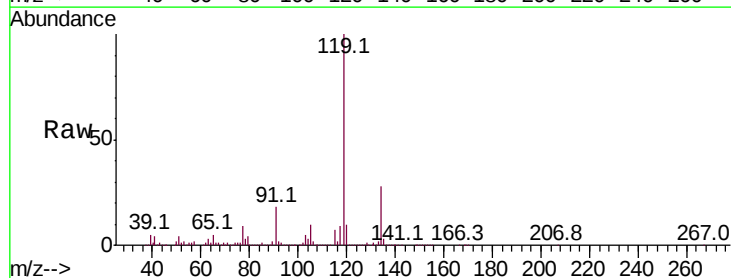
Acq: 21 Dec 2018 00:28

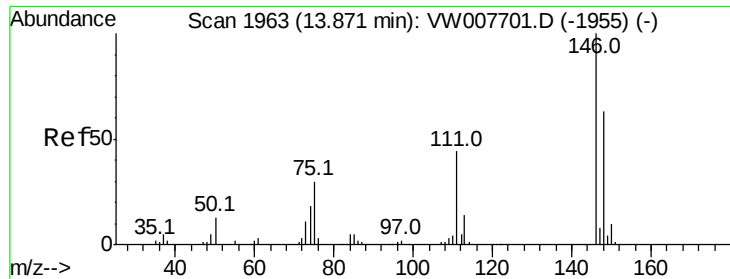
Tgt Ion: 117 Resp: 163719

Ion Ratio Lower Upper

117 100

201 0.0 36.2 108.6#





#91

1,2-Dichlorobenzene

Concen: 4.028 ug/l

RT: 13.91 min Scan# 1969

Delta R.T. 0.04 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

KY001SB103-121118-(25-27)RE

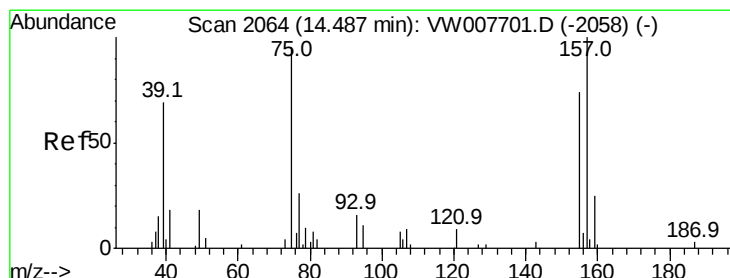
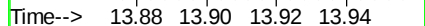
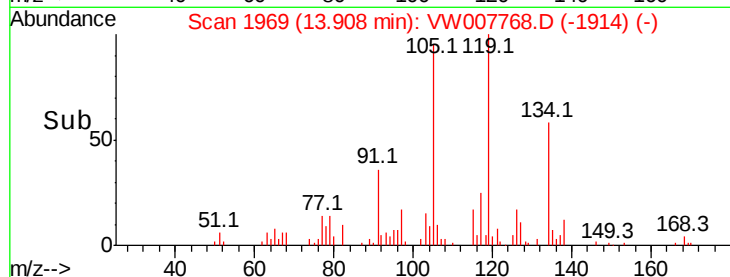
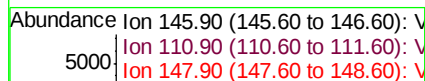
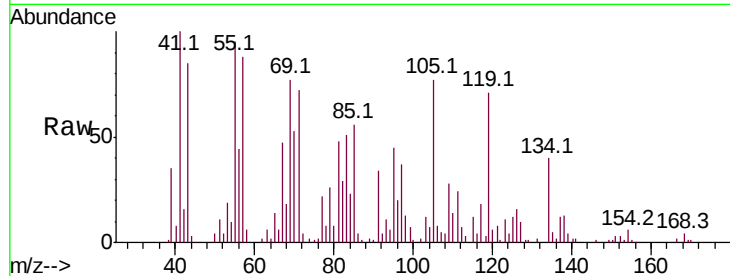
Tot Ion:146 Resp: 163

Ion Ratio Lower Upper

146 100

111 0.0 21.7 65.1#

148 0.0 32.1 96.5#



#92

1,2-Dibromo-3-Chloropropane

Concen: 680.121 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.02 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

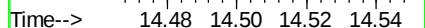
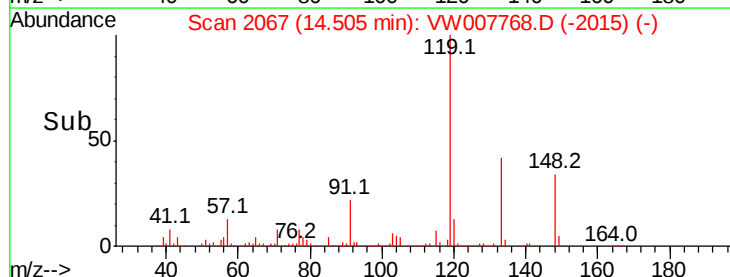
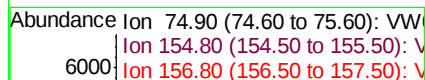
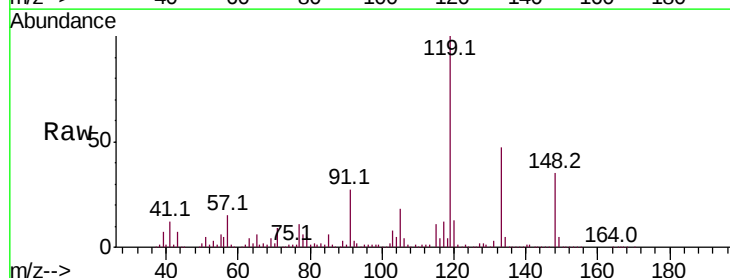
Tgt Ion: 75 Resp: 2080

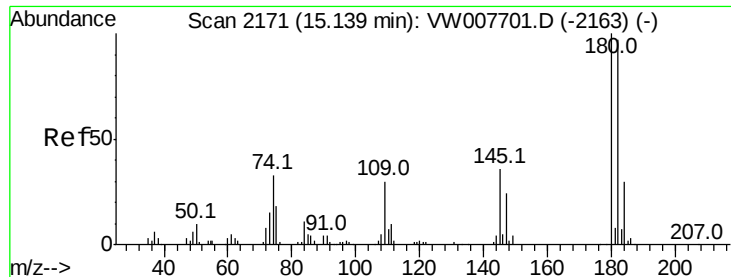
Ion Ratio Lower Upper

75 100

155 6.3 39.4 118.1#

157 0.0 52.0 156.0#





#93

1,2,4-Trichlorobenzene

Concen: 6.622 ug/l

RT: 15.16 min Scan# 2174

Delta R.T. 0.02 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

Instrument :

MSVOA_W

ClientSampleId :

KY001SB103-121118-(25-27)RE

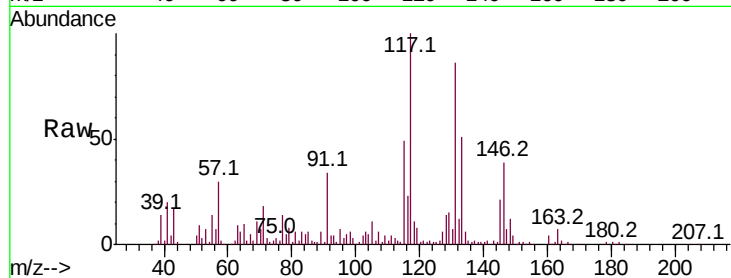
Tot Ion:180 Resp: 186

Ion Ratio Lower Upper

180 100

182 0.0 47.5 142.6#

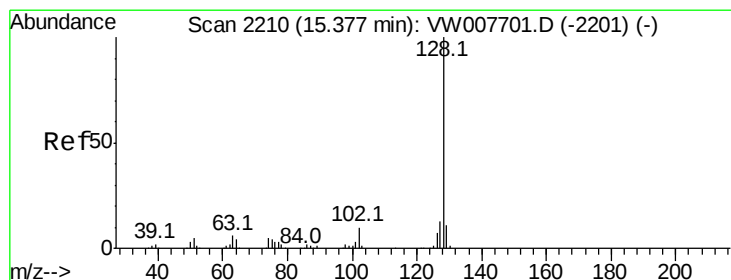
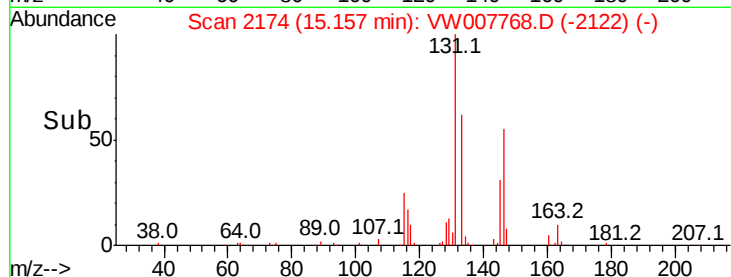
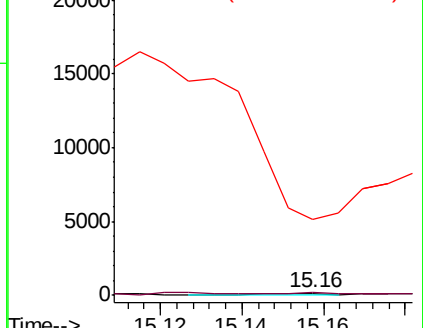
145 0.0 17.5 52.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 623.504 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW007768.D

Acq: 21 Dec 2018 00:28

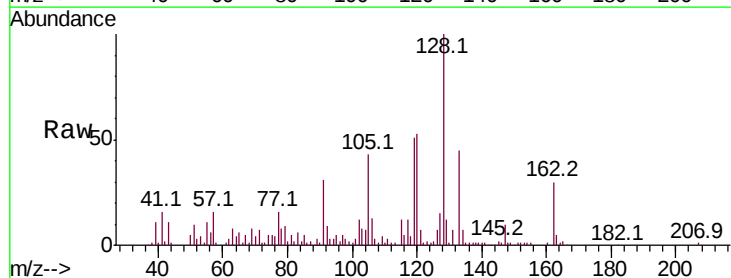
Tgt Ion:128 Resp: 32379

Ion Ratio Lower Upper

128 100

127 19.1 10.7 16.1#

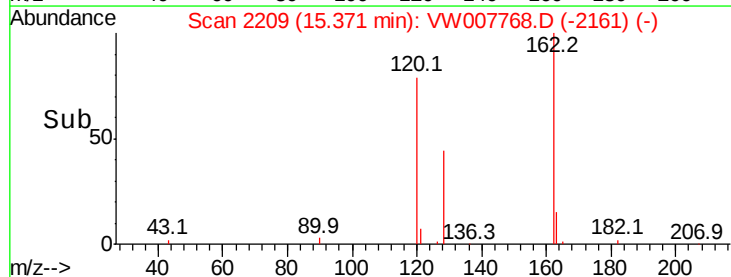
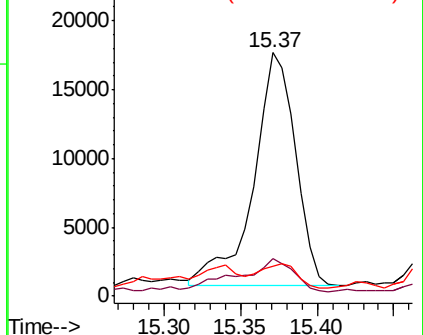
129 9.0 8.8 13.2

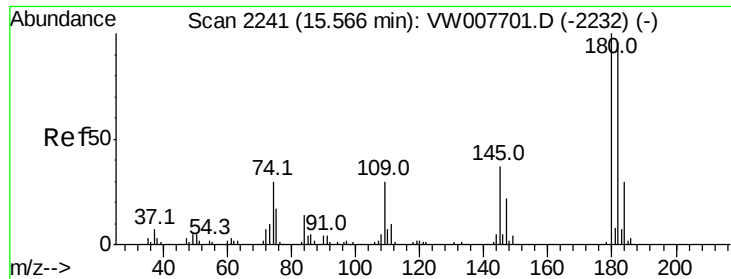


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

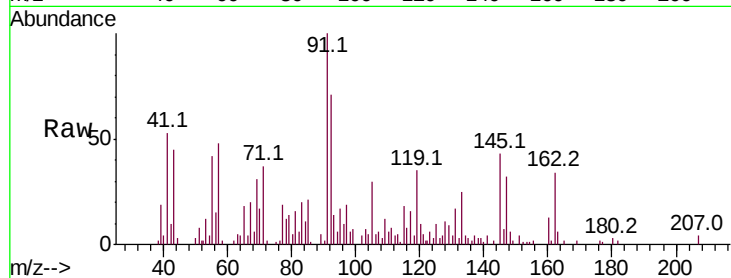




#96
 1,2,3-Trichlorobenzene
 Concen: 8.651 ug/l
 RT: 15.59 min Scan# 2245
 Delta R.T. 0.02 min
 Lab File: VW007768.D
 Acq: 21 Dec 2018 00:28

Instrument :
 MSVOA_W
 ClientSampleId :
 KY001SB103-121118-(25-27)RE

Tot Ion:180 Resp: 208
 Ion Ratio Lower Upper
 180 100
 182 12.5 47.4 142.2#
 145 0.0 18.4 55.0#



Abundance Ion 179.80 (179.50 to 180.50): V
 15000 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

