

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW122218\
 Data File : VW007763.D
 Acq On : 20 Dec 2018 22:18
 Operator : SY/AP
 Sample : J6392-01RE
 Misc : 4.48G/5ML/MSVOA_W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 KY001SB102-121118-(7-9)RE

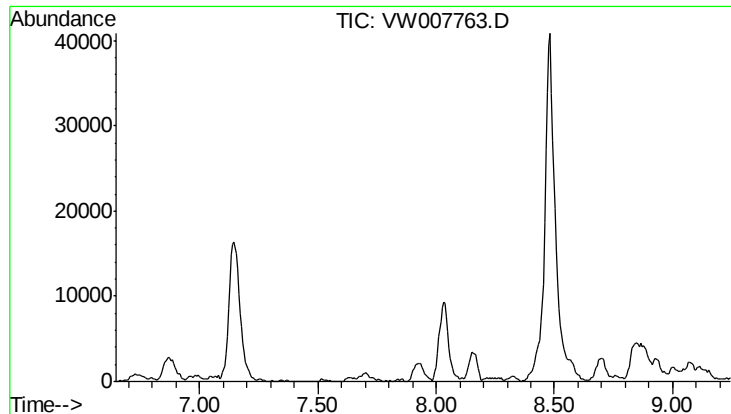
Quant Time: Dec 21 03:57:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 06:30:23 2018
 Response via : Initial Calibration

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	11.63	117	170	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	17327	50.00	ug/l	-0.21

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.48	65	234	0.00	ug/l	0.18
Spiked Amount			Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount			Recovery	=	0.00%	
50) Toluene-d8	10.32	98	313	0.00	ug/l	0.00
Spiked Amount			Recovery	=	0.00%	
62) 4-Bromofluorobenzene	12.62	95	354	0.00	ug/l	0.00
Spiked Amount			Recovery	=	0.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
65) Chlorobenzene	11.65	112	26	7.066	ug/l #	43
66) 1,1,1,2-Tetrachloroethane	11.73	131	135	102.681	ug/l #	29
67) Ethyl Benzene	11.73	91	38043	6025.135	ug/l	97
68) m/p-Xylenes	11.84	106	25475	10400.880	ug/l	97
69) o-Xylene	12.17	106	16699	7273.351	ug/l	98
70) Styrene	12.16	104	1214	321.672	ug/l #	1
71) Bromoform	12.33	173	180	263.730	ug/l #	29
73) Isopropylbenzene	12.47	105	13891	10.606	ug/l	95
74) N-amyl acetate	12.25	43	473	2.085	ug/l #	37
75) 1,1,2,2-Tetrachloroethane	12.70	83	399	2.032	ug/l #	65
76) 1,2,3-Trichloropropane	12.82	75	282	2.106	ug/l #	100
77) Bromobenzene	12.93	156	167155	556.892	ug/l #	1
78) n-propylbenzene	12.81	91	33818	22.181	ug/l	97
79) 2-Chlorotoluene	12.90	91	4603	5.183	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	40521	35.868	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.47	75	314	4.922	ug/l #	64
82) 4-Chlorotoluene	12.95	91	4899	5.180	ug/l #	42
83) tert-Butylbenzene	13.26	119	20857	21.041	ug/l #	69
84) 1,2,4-Trimethylbenzene	13.26	105	168761	148.040	ug/l	100
85) sec-Butylbenzene	13.26	105	168761	123.532	ug/l #	56
86) p-Isopropyltoluene	13.50	119	4055	3.264	ug/l	86
89) n-Butylbenzene	13.83	91	8351	7.332	ug/l #	69
90) Hexachloroethane	14.10	117	3724	17.076	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.46	75	371	9.200	ug/l #	3
95) Naphthalene	15.37	128	87331	127.531	ug/l	100

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



#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 7.95 min

Lab File: VW007763.D

Acq: 20 Dec 2018 22:18

Instrument :

MSVOA_W

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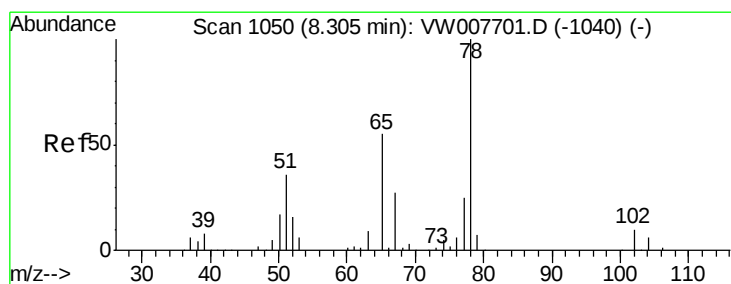
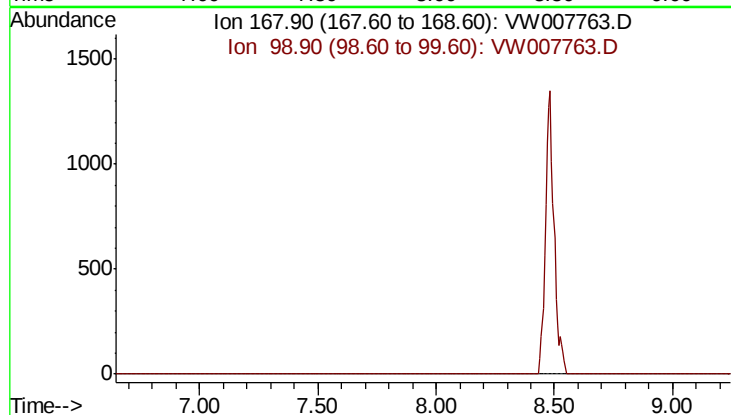
KY001SB102-121118-(7-9)RE

Tgt Ion: 168

Sig Exp Ratio

168 100

99 67.5



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 8.48 min Scan# 1079

Delta R.T. 0.18 min

Lab File: VW007763.D

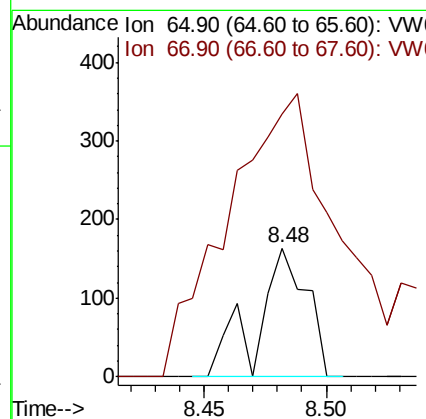
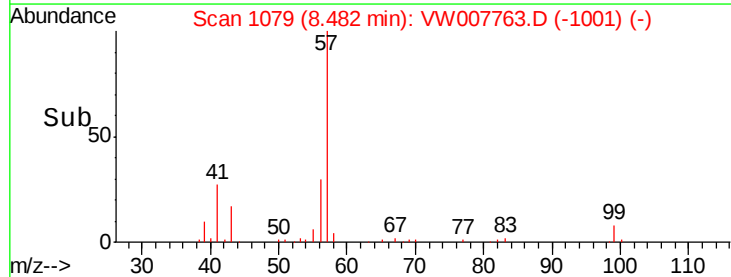
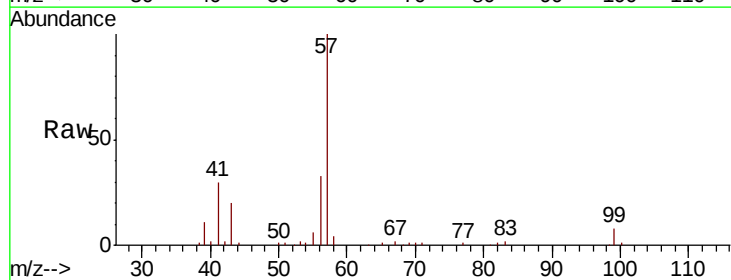
Acq: 20 Dec 2018 22:18

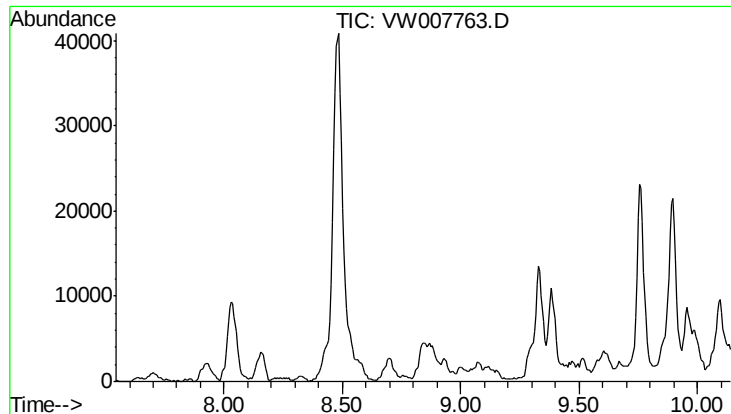
Tgt Ion: 65 Resp: 234

Ion Ratio Lower Upper

65 100

67 509.4 0.0 100.6#





#34

1,4-Difluorobenzene

Concen: 0.000 ug/l

Expected RT: 8.84 min

Lab File: VW007763.D

Acq: 20 Dec 2018 22:18

Instrument :

MSVOA_W

ClientSampleId :

KY001SB102-121118-(7-9)RE

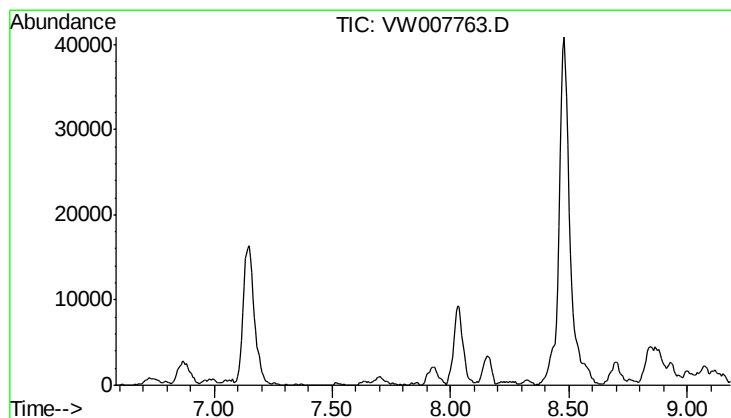
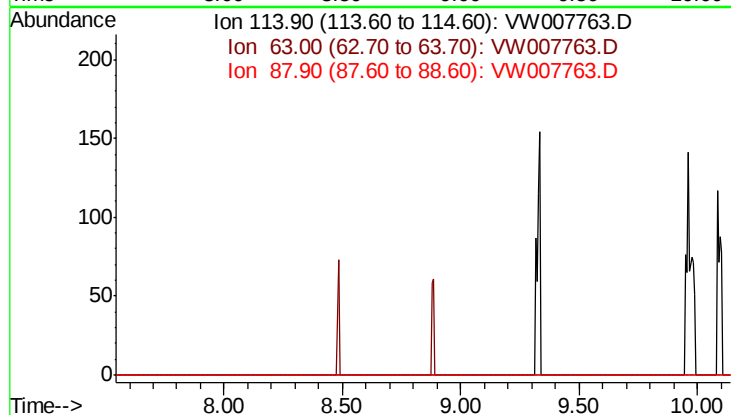
Tgt Ion: 114

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: VW007763.D

Acq: 20 Dec 2018 22:18

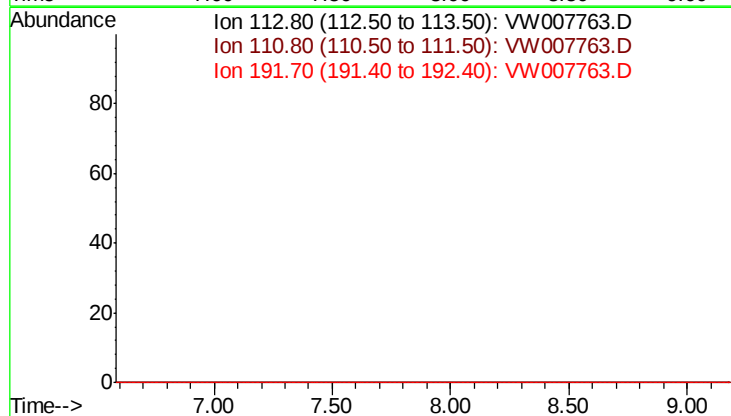
Tgt Ion: 113

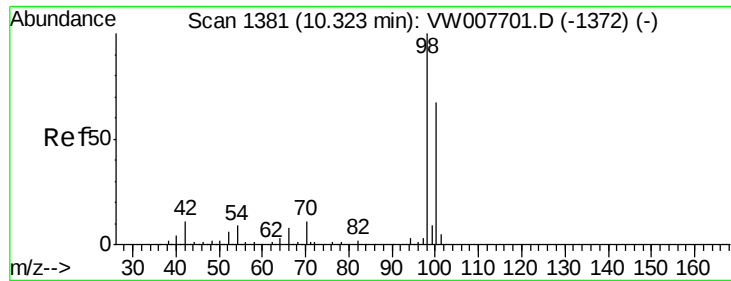
Sig Exp Ratio

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: VW007763.D

Acq: 20 Dec 2018 22:18

Instrument :

MSVOA_W

ClientSampleId :

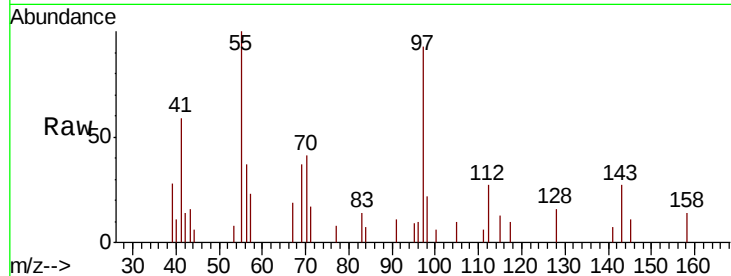
KY001SB102-121118-(7-9)RE

Tgt Ion: 98 Resp: 313

Ion Ratio Lower Upper

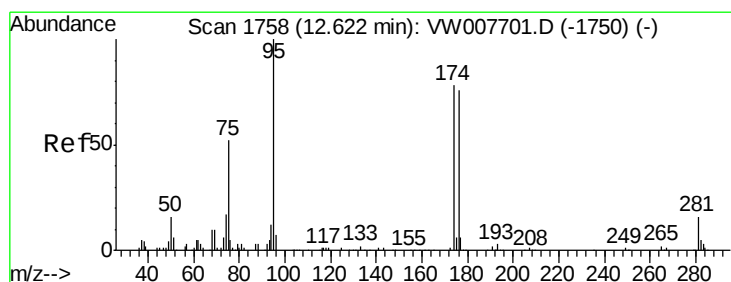
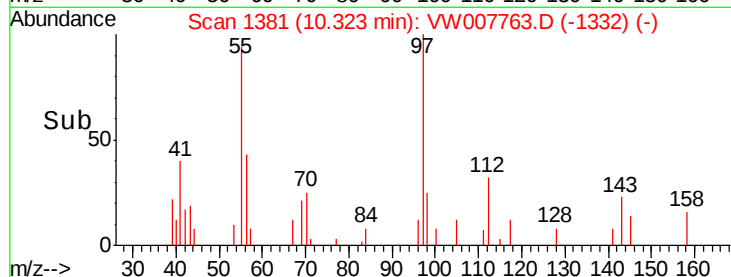
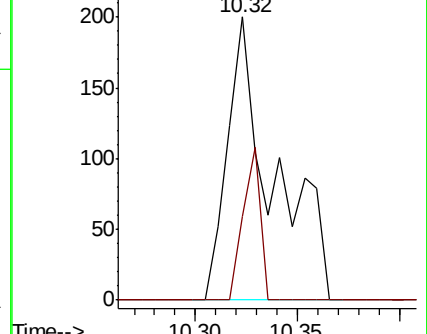
98 100

100 19.5 52.2 78.2#



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW007763.D

Acq: 20 Dec 2018 22:18

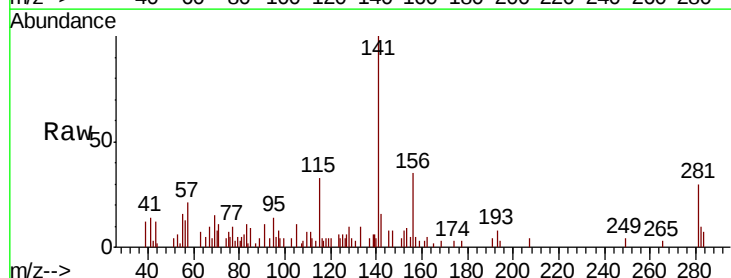
Tgt Ion: 95 Resp: 354

Ion Ratio Lower Upper

95 100

174 41.0 0.0 152.2

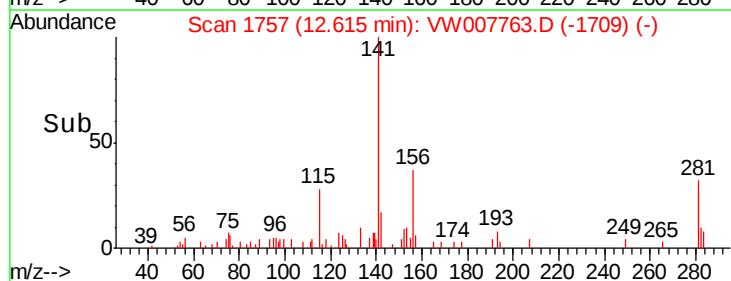
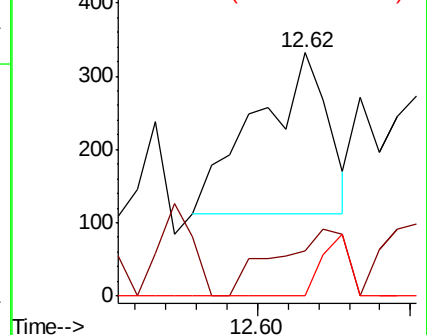
176 14.7 0.0 146.8

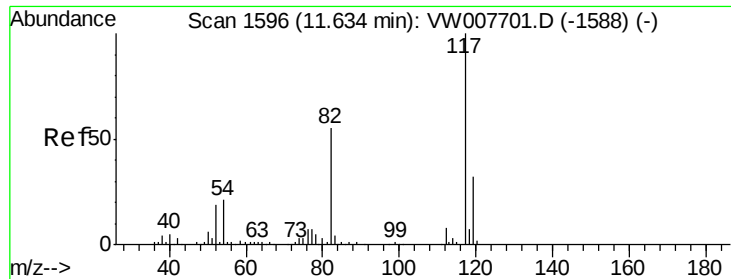


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

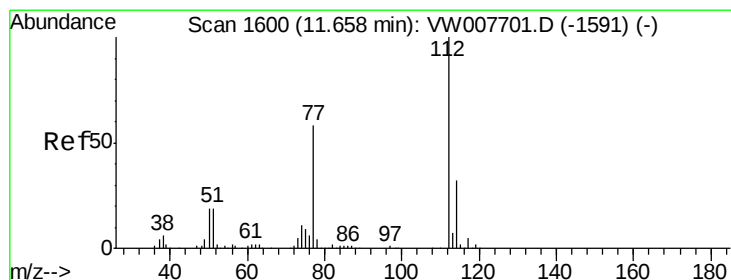
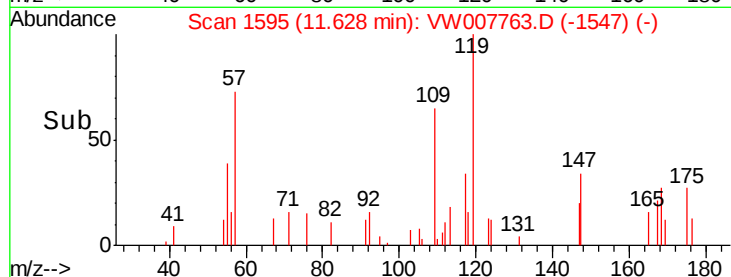
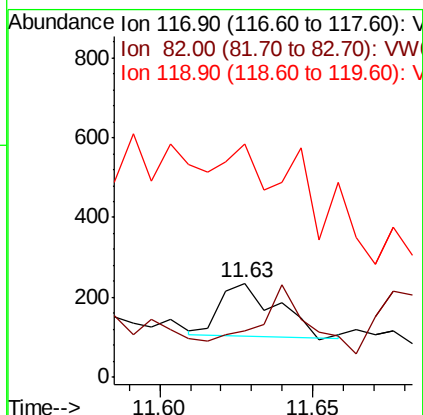
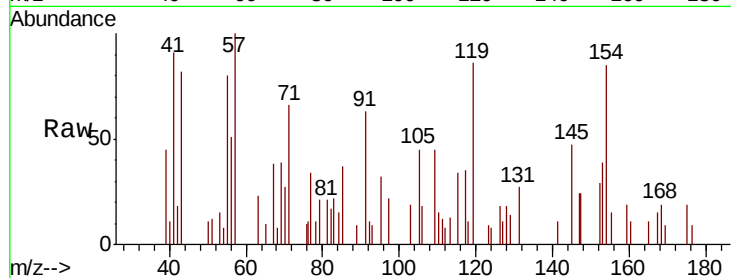




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW007763.D
Acq: 20 Dec 2018 22:18

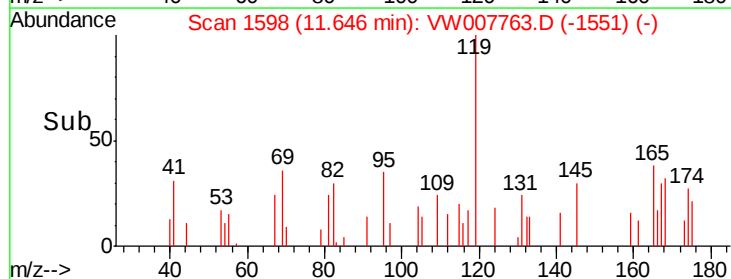
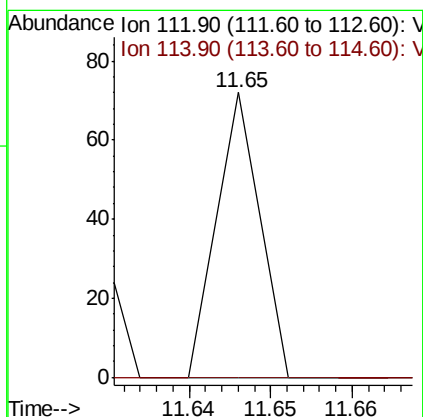
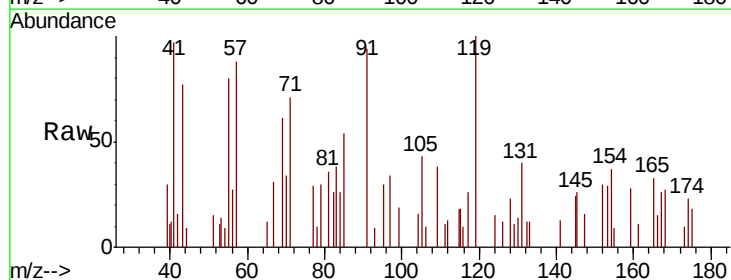
Instrument :
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KY001SB102-121118-(7-9)RE

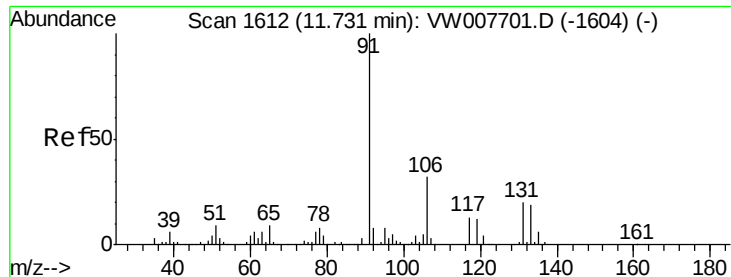
Tgt Ion:117 Resp: 170
Ion Ratio Lower Upper
117 100
82 14.7 44.3 66.5#
119 74.4 25.7 38.5#



#65
Chlorobenzene
Concen: 7.066 ug/l
RT: 11.65 min Scan# 1598
Delta R.T. -0.01 min
Lab File: VW007763.D
Acq: 20 Dec 2018 22:18

Tgt Ion:112 Resp: 26
Ion Ratio Lower Upper
112 100
114 0.0 25.2 37.8#

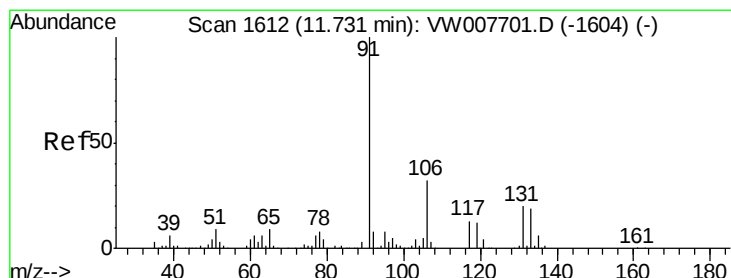
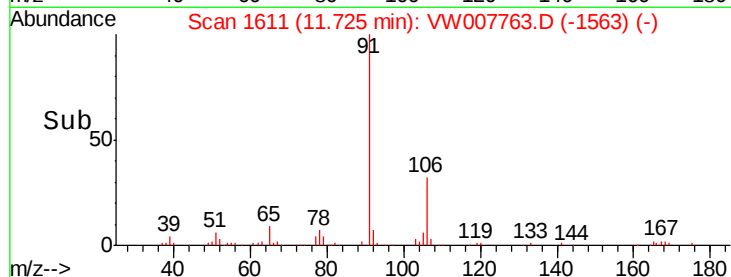
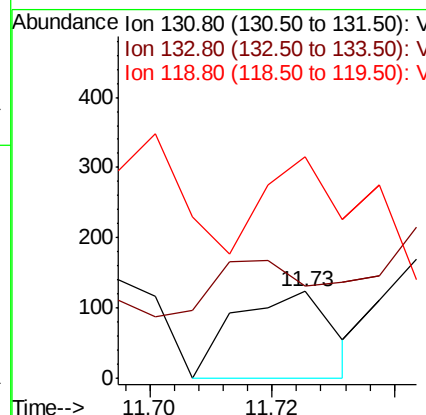
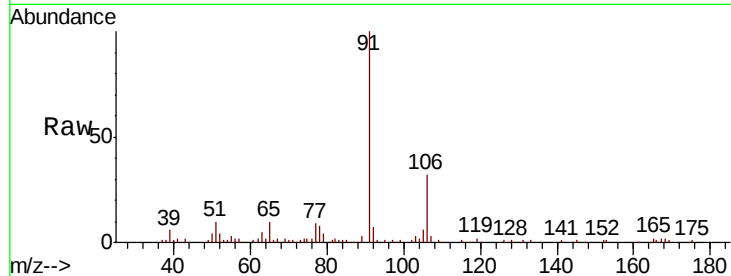




#66
 1,1,1,2-Tetrachloroethane
 Concen: 102.681 ug/l
 RT: 11.73 min Scan# 1611
 Delta R.T. -0.01 min
 Lab File: VW007763.D
 Acq: 20 Dec 2018 22:18

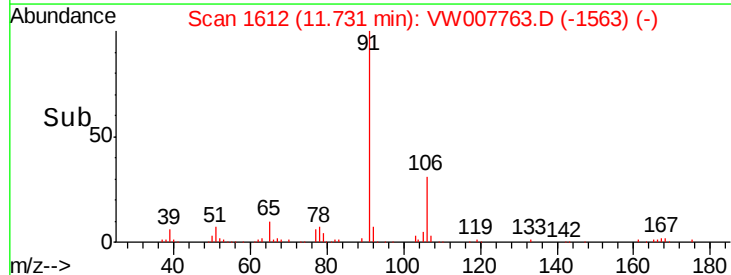
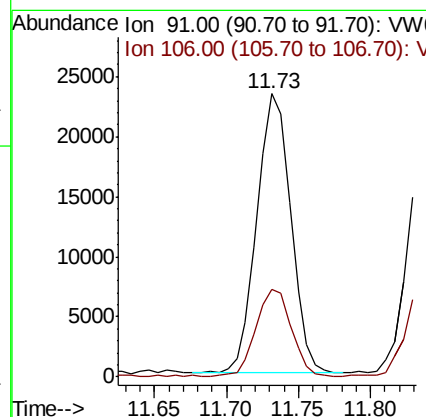
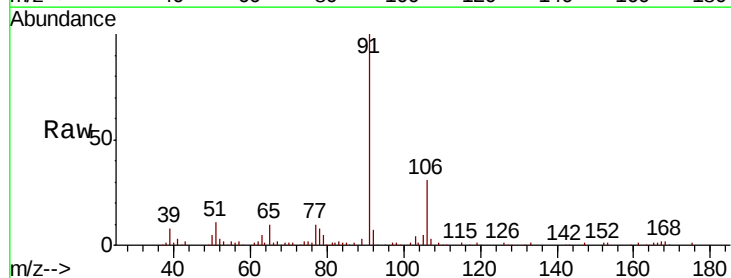
Instrument :
 MSVOA_W
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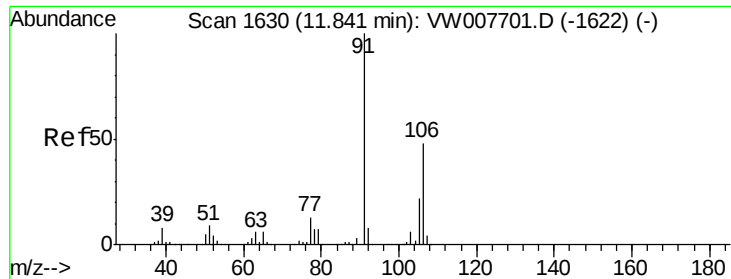
Tgt Ion:131 Resp: 135
 Ion Ratio Lower Upper
 131 100
 133 108.9 47.5 142.5
 119 181.5 30.2 90.6#



#67
 Ethyl Benzene
 Concen: 6025.135 ug/l
 RT: 11.73 min Scan# 1612
 Delta R.T. -0.00 min
 Lab File: VW007763.D
 Acq: 20 Dec 2018 22:18

Tgt Ion: 91 Resp: 38043
 Ion Ratio Lower Upper
 91 100
 106 30.8 25.8 38.8





#68

m/p-Xylenes

Concen: 10400.880 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW007763.D

Acq: 20 Dec 2018 22:18

Instrument :

MSVOA_W

ClientSampleId :

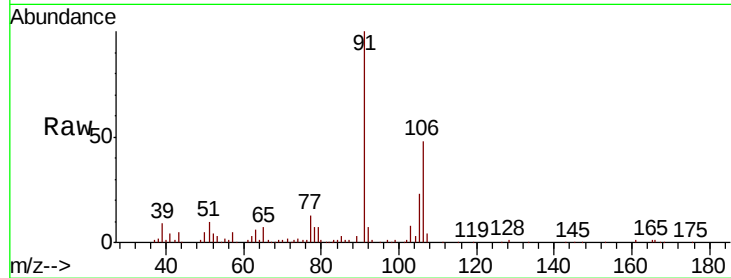
KY001SB102-121118-(7-9)RE

Tgt Ion:106 Resp: 25475

Ion Ratio Lower Upper

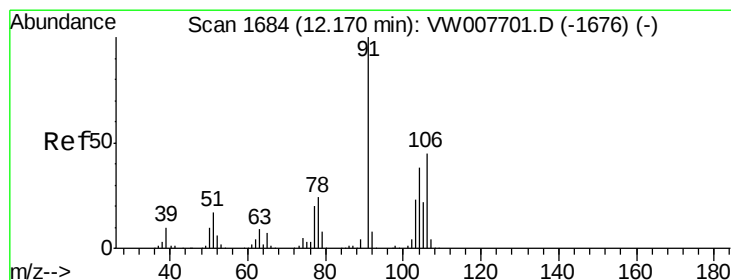
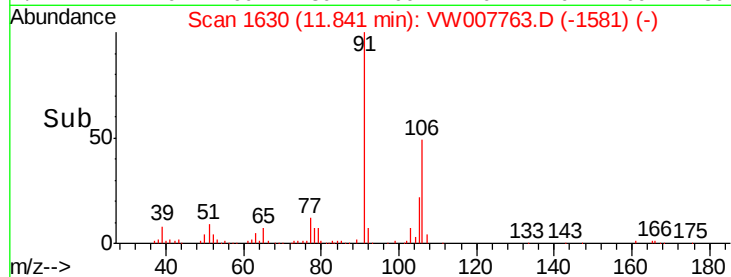
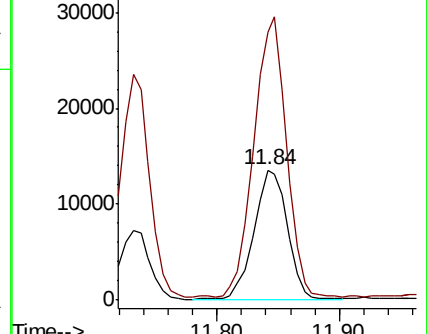
106 100

91 210.8 165.2 247.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#69

o-Xylene

Concen: 7273.351 ug/l

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW007763.D

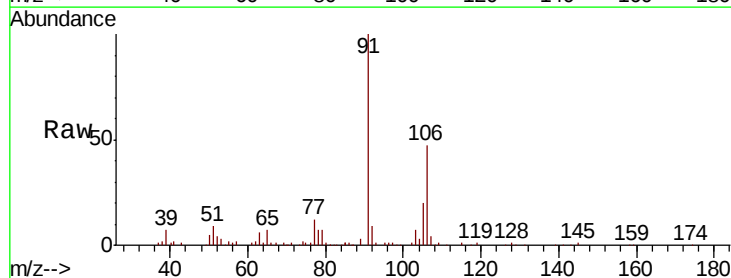
Acq: 20 Dec 2018 22:18

Tgt Ion:106 Resp: 16699

Ion Ratio Lower Upper

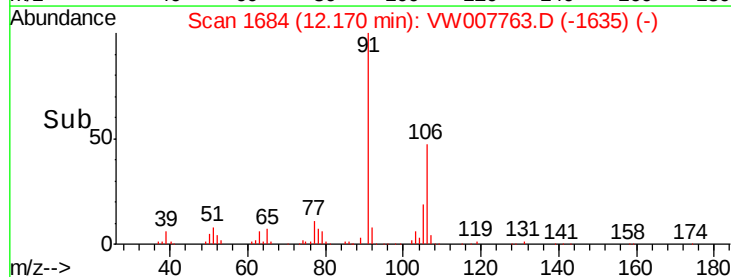
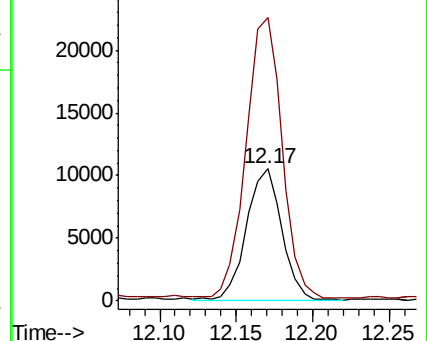
106 100

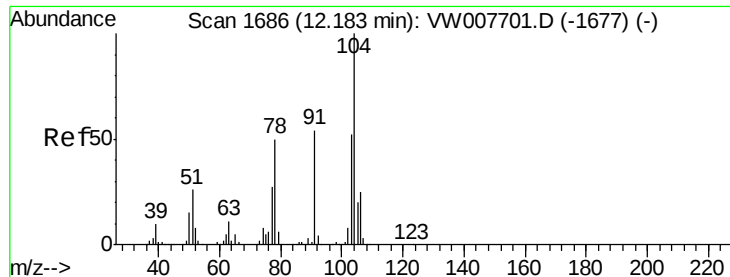
91 217.8 110.5 331.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#70

Styrene

Concen: 321.672 ug/l

RT: 12.16 min Scan# 1683

Delta R.T. -0.02 min

Lab File: VW007763.D

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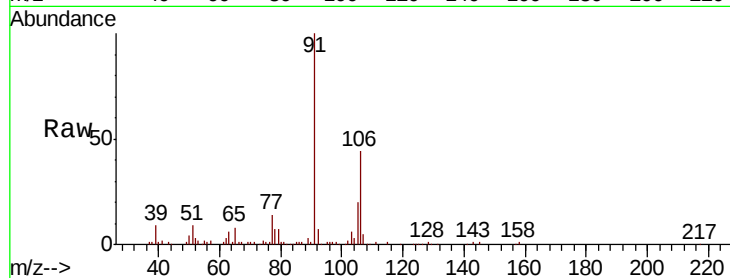
Tgt Ion:104 Resp: 1214

Ion Ratio Lower Upper

104 100

78 235.1 43.4 65.0#

103 196.5 44.5 66.7#

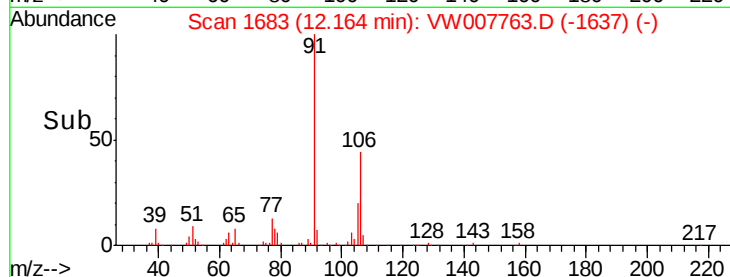


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V

Time-->



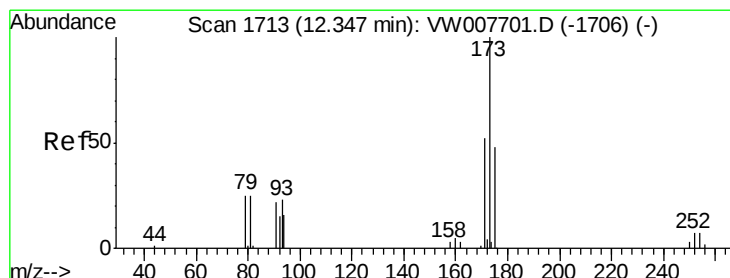
Abundance

Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V

Time-->



#71

Bromoform

Concen: 263.730 ug/l

RT: 12.33 min Scan# 1710

Delta R.T. -0.02 min

Lab File: VW007763.D

Acq: 20 Dec 2018 22:18

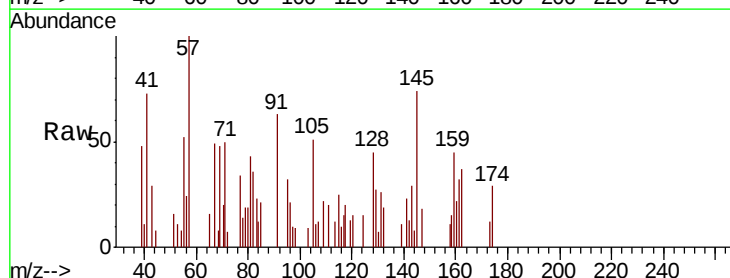
Tgt Ion:173 Resp: 180

Ion Ratio Lower Upper

173 100

175 0.0 23.9 71.7#

254 0.0 0.0 0.0

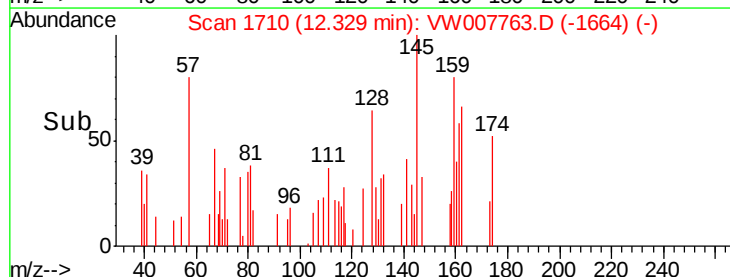


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

Time-->



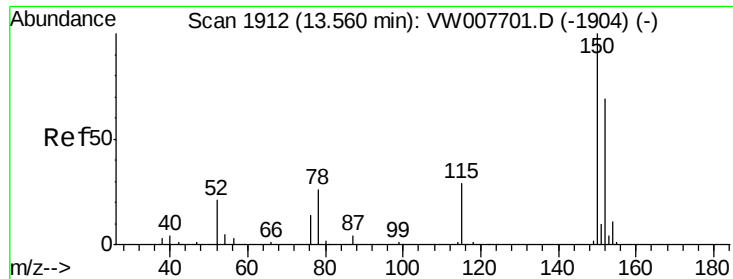
Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

Time-->

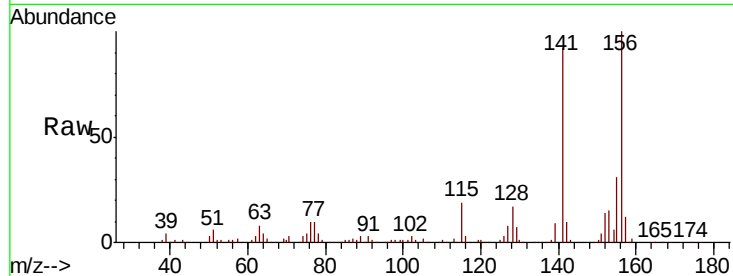


#72

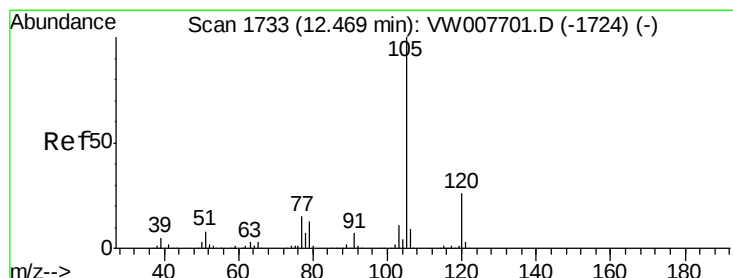
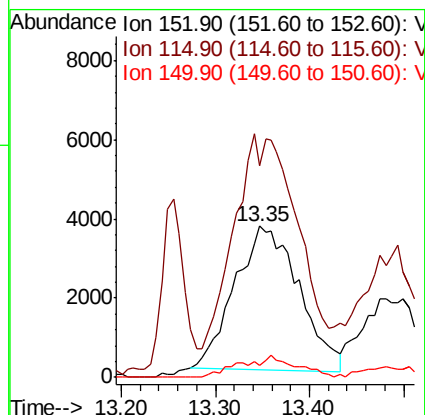
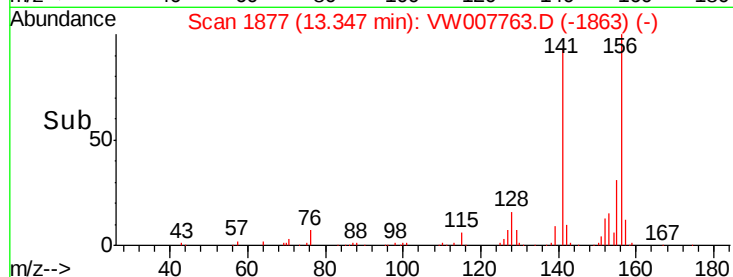
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 1877
Delta R.T. -0.21 min
Lab File: VW007763.D
Acq: 20 Dec 2018 22:18

Instrument :
MSVOA_W
ClientSampleId :
KY001SB102-121118-(7-9)RE

Tgt Ion:152 Resp: 17327
Ion Ratio Lower Upper
152 100
115 62.5 31.8 95.4
150 7.7 0.0 350.8



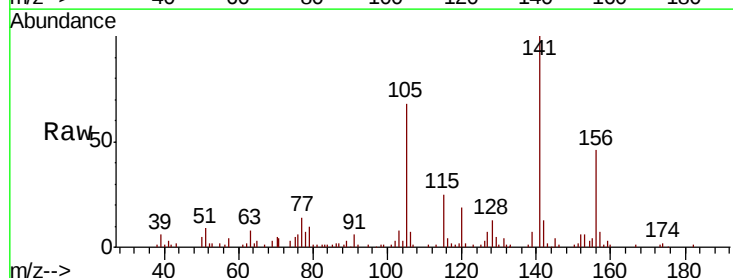
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



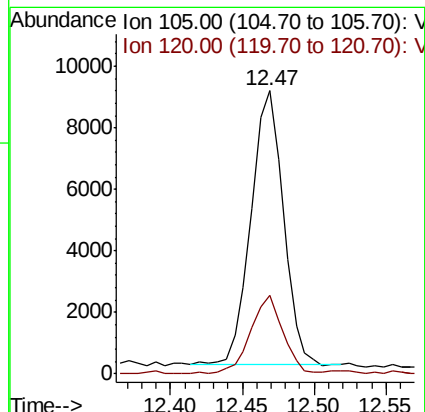
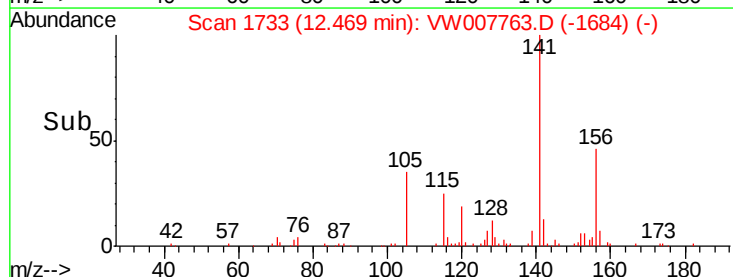
#73

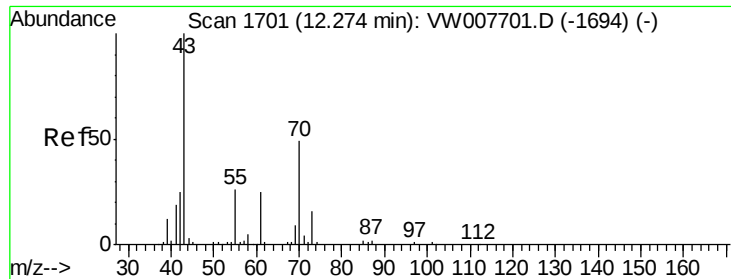
Isopropylbenzene
Concen: 10.606 ug/l
RT: 12.47 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VW007763.D
Acq: 20 Dec 2018 22:18

Tgt Ion:105 Resp: 13891
Ion Ratio Lower Upper
105 100
120 28.8 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: 2.085 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW007763.D

Acq: 20 Dec 2018 22:18

Instrument :

MSVOA_W

ClientSampleId :

KY001SB102-121118-(7-9)RE

Tgt Ion: 43 Resp: 473

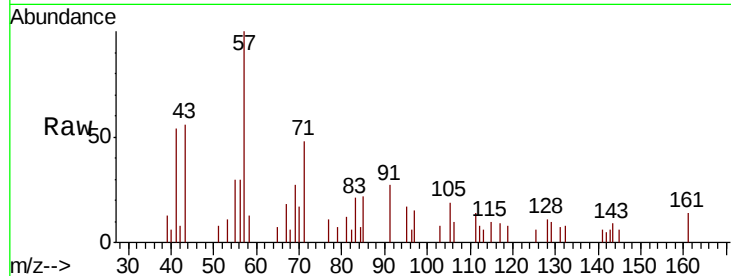
Ion Ratio Lower Upper

43 100

70 116.7 37.6 56.4#

55 26.0 21.7 32.5

61 0.0 20.1 30.1#

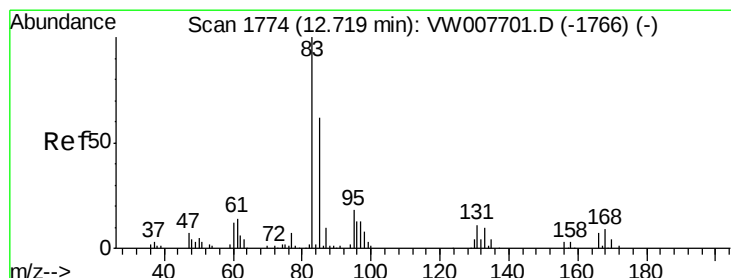
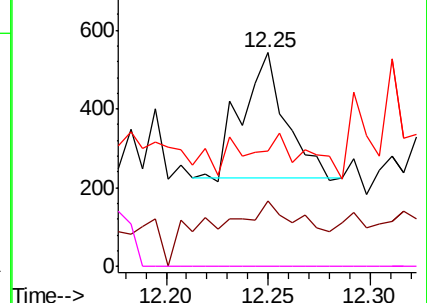
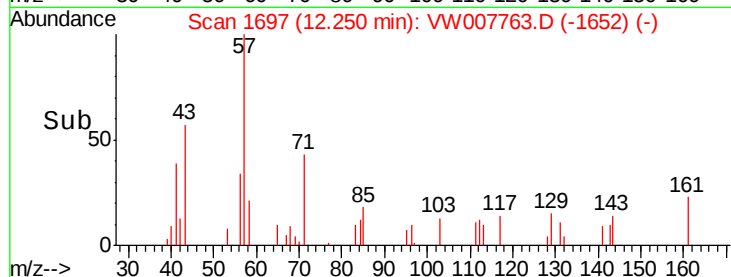


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 2.032 ug/l

RT: 12.70 min Scan# 1771

Delta R.T. -0.02 min

Lab File: VW007763.D

Acq: 20 Dec 2018 22:18

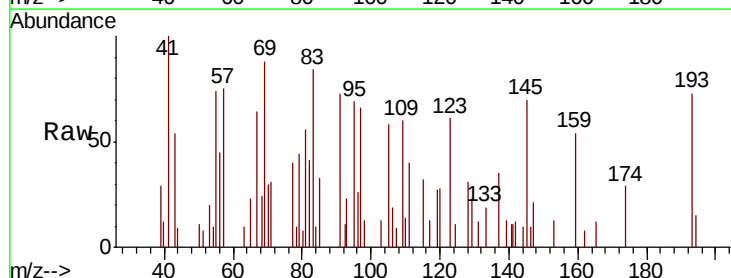
Tgt Ion: 83 Resp: 399

Ion Ratio Lower Upper

83 100

131 24.1 6.3 18.8#

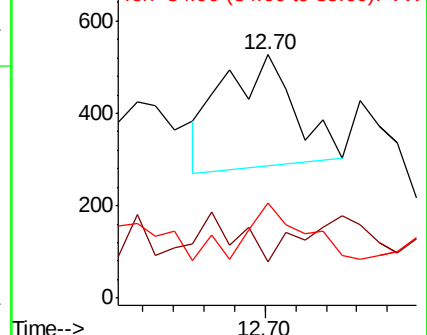
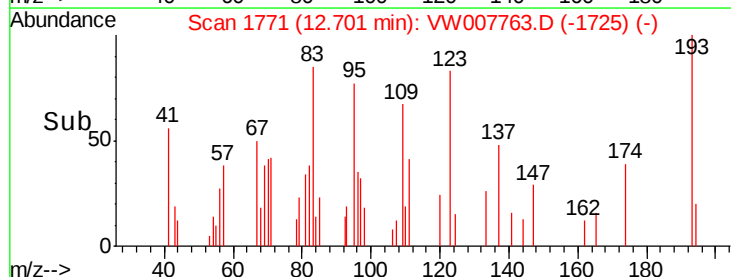
85 36.1 32.3 96.8

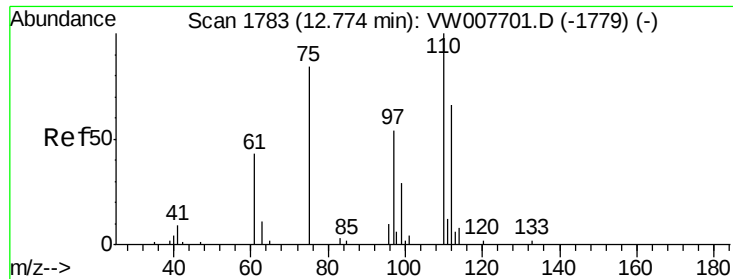


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW

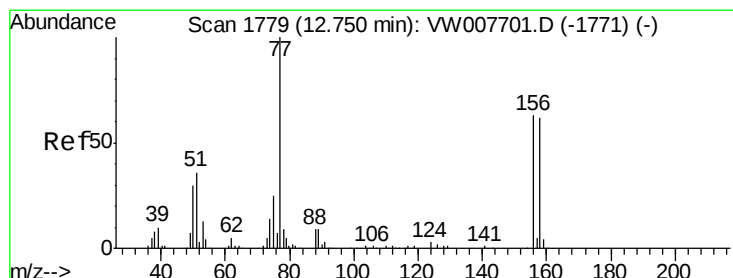
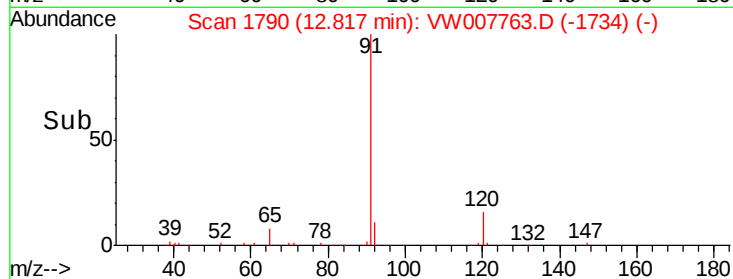
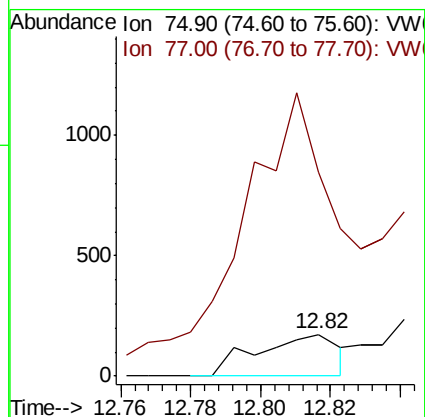
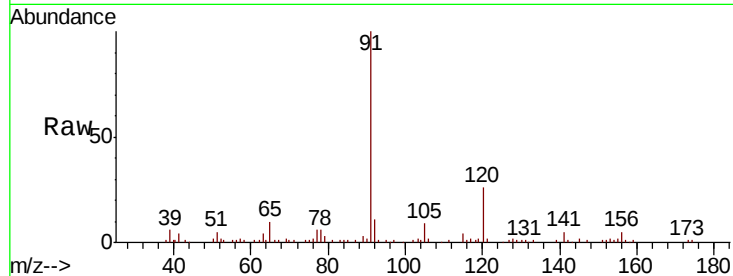




#76
 1,2,3-Trichloropropane
 Concen: 2.106 ug/l
 RT: 12.82 min Scan# 1790
 Delta R.T. 0.04 min
 Lab File: VW007763.D
 Acq: 20 Dec 2018 22:18

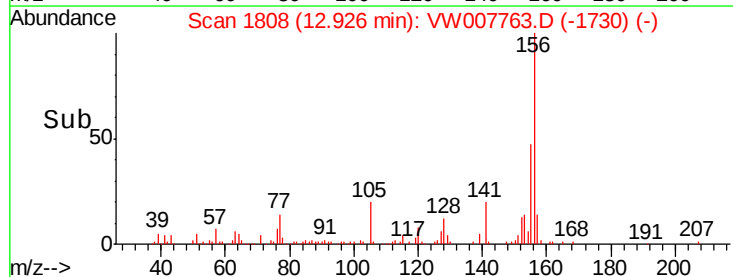
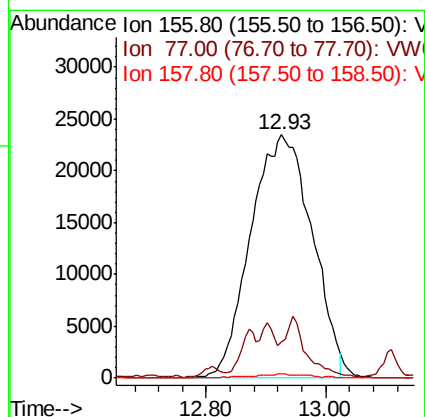
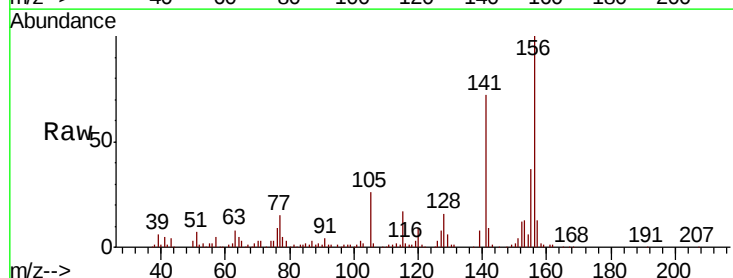
Instrument :
 MSVOA_W
 ClientSampleId :
 KY001SB102-121118-(7-9)RE

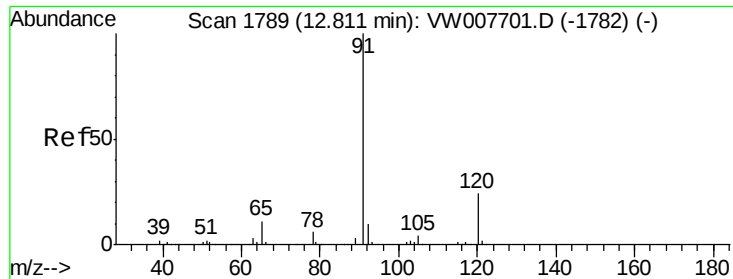
Tgt Ion: 75 Resp: 282
 Ion Ratio Lower Upper
 75 100
 77 677.3 0.0 0.0#



#77
 Bromobenzene
 Concen: 556.892 ug/l
 RT: 12.93 min Scan# 1808
 Delta R.T. 0.18 min
 Lab File: VW007763.D
 Acq: 20 Dec 2018 22:18

Tgt Ion: 156 Resp: 167155
 Ion Ratio Lower Upper
 156 100
 77 7.0 87.4 262.1#
 158 0.6 48.4 145.0#





#78

n-propylbenzene

Concen: 22.181 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW007763.D

Acq: 20 Dec 2018 22:18

Instrument :

MSVOA_W

ClientSampleId :

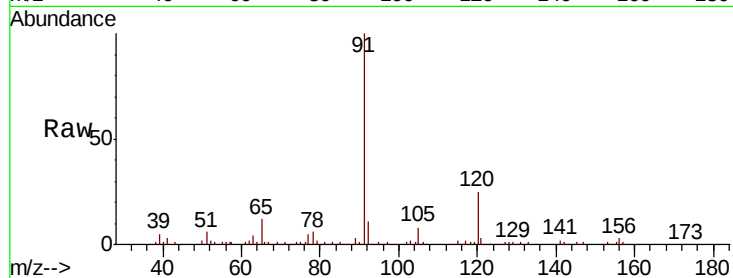
KY001SB102-121118-(7-9)RE

Tgt Ion: 91 Resp: 33818

Ion Ratio Lower Upper

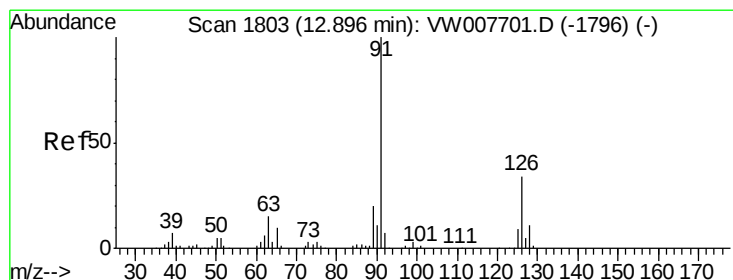
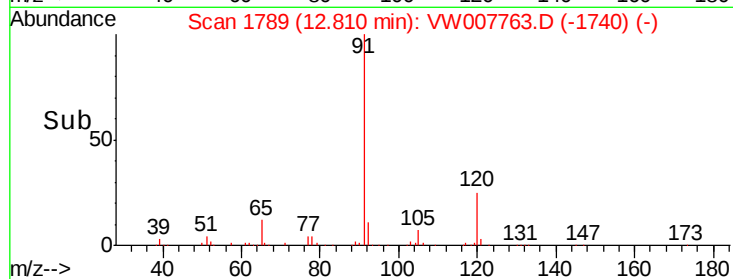
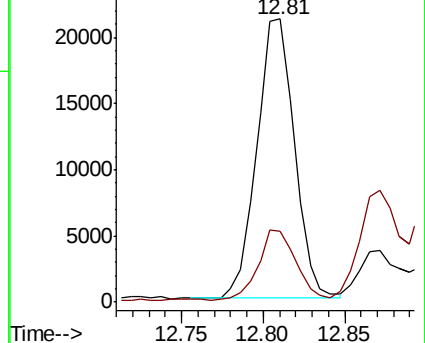
91 100

120 25.5 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: 5.183 ug/l

RT: 12.90 min Scan# 1804

Delta R.T. 0.01 min

Lab File: VW007763.D

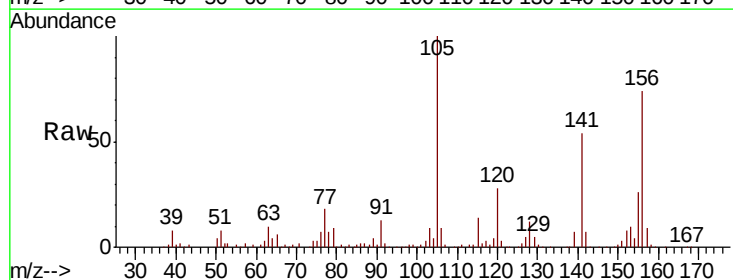
Acq: 20 Dec 2018 22:18

Tgt Ion: 91 Resp: 4603

Ion Ratio Lower Upper

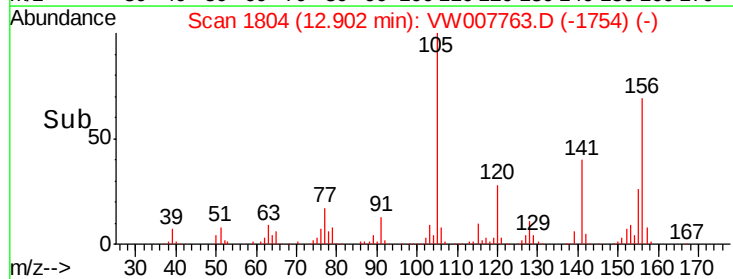
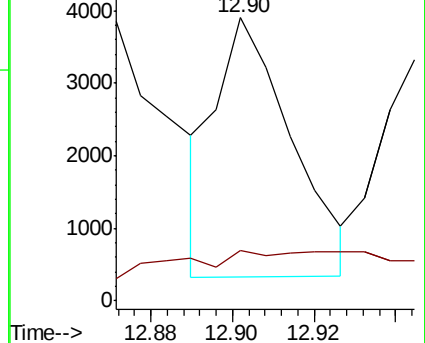
91 100

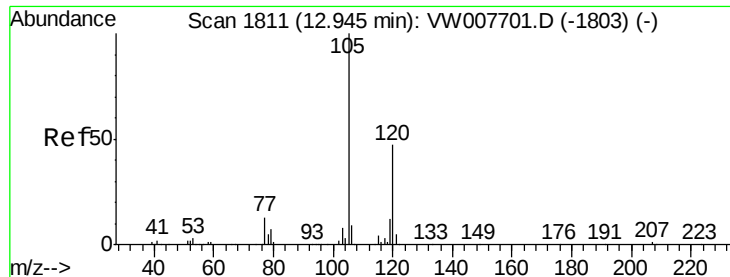
126 93.4 17.0 51.0#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

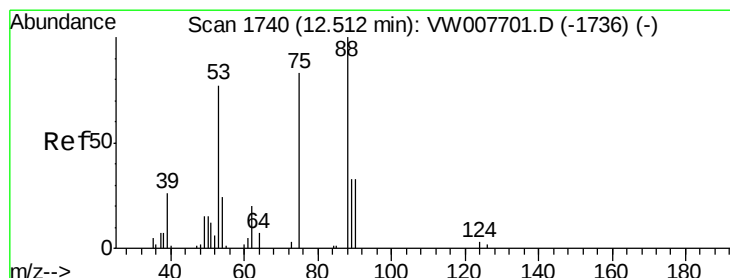
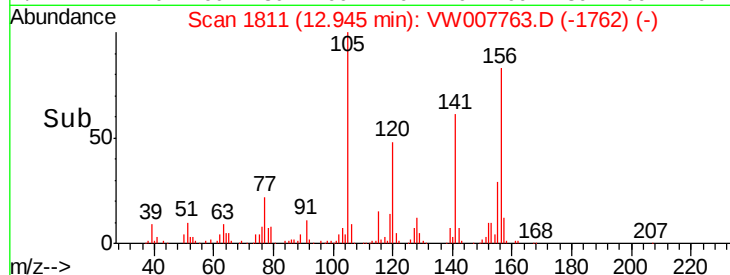
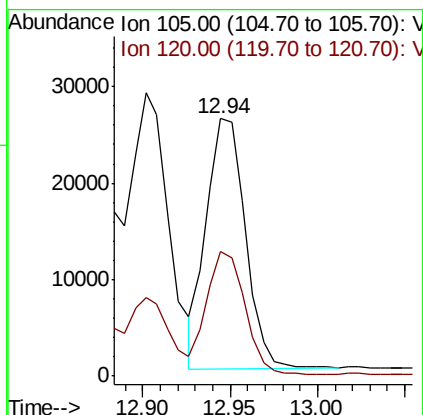
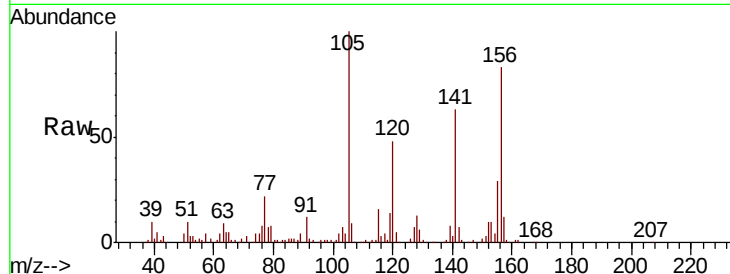




#80
 1,3,5-Trimethylbenzene
 Concen: 35.868 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW007763.D
 Acq: 20 Dec 2018 22:18

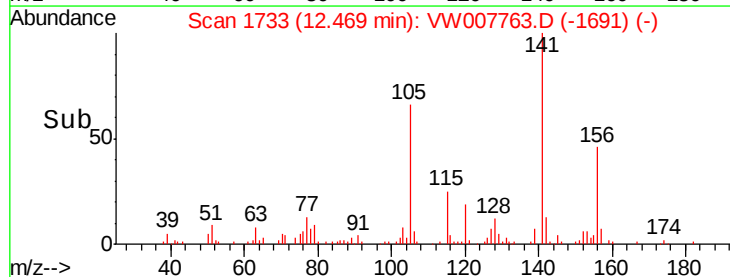
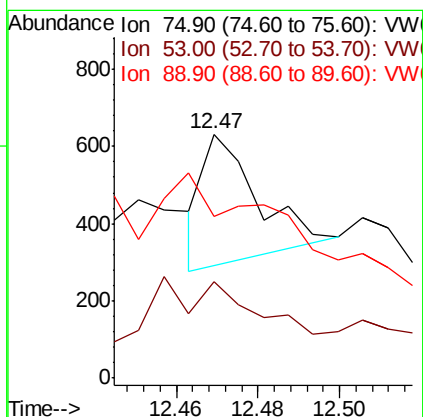
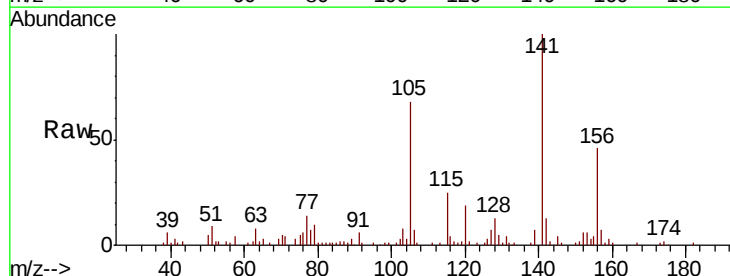
Instrument :
 MSVOA_W
 ClientSampleId :
 KY001SB102-121118-(7-9)RE

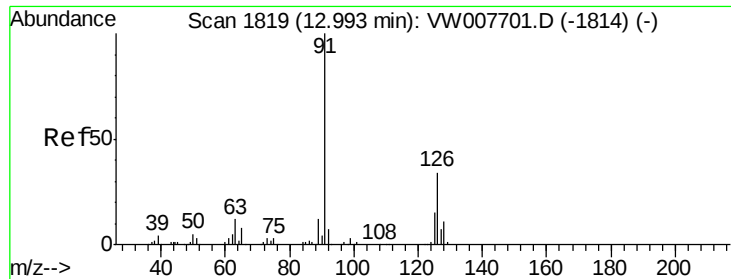
Tgt Ion: 105 Resp: 40521
 Ion Ratio Lower Upper
 105 100
 120 47.8 23.6 70.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 4.922 ug/l
 RT: 12.47 min Scan# 1733
 Delta R.T. -0.04 min
 Lab File: VW007763.D
 Acq: 20 Dec 2018 22:18

Tgt Ion: 75 Resp: 314
 Ion Ratio Lower Upper
 75 100
 53 82.2 80.2 120.2
 89 0.0 39.2 58.8#

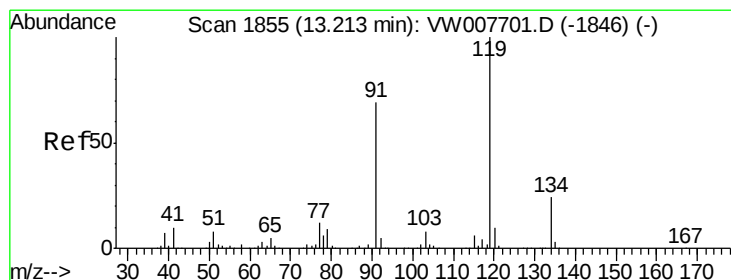
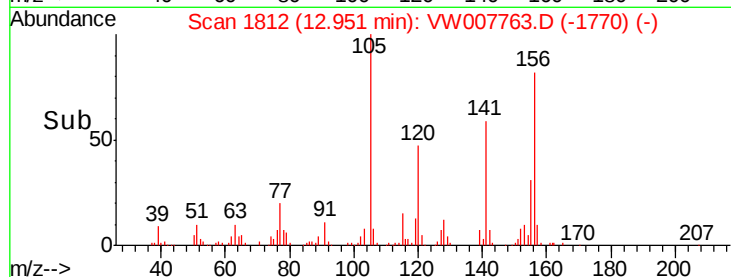
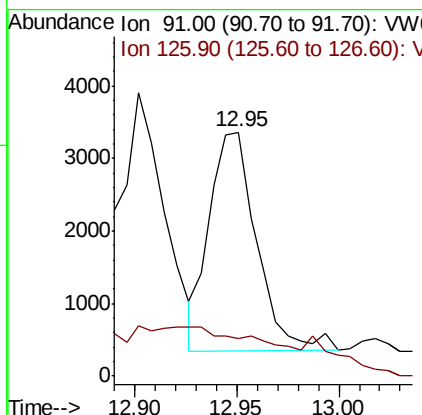
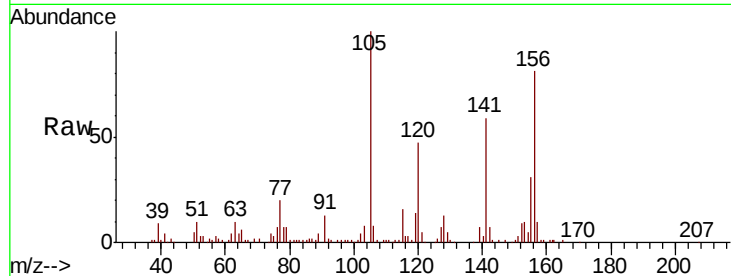




#82
4-Chlorotoluene
Concen: 5.180 ug/l
RT: 12.95 min Scan# 1812
Delta R.T. -0.04 min
Lab File: VW007763.D
Acq: 20 Dec 2018 22:18

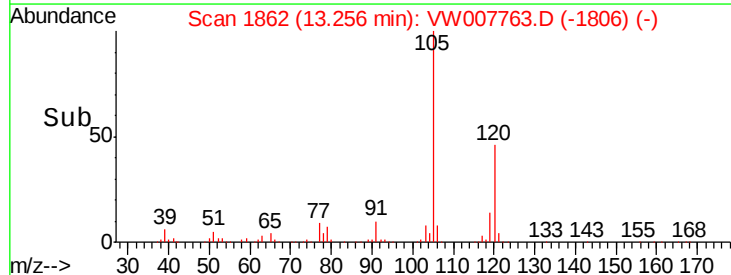
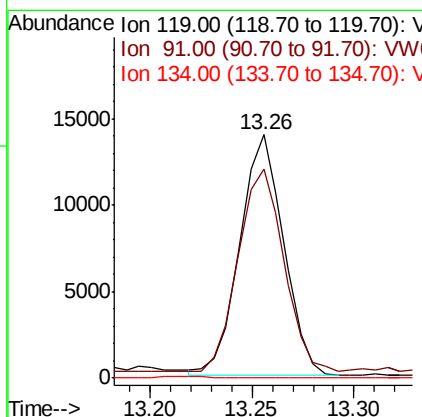
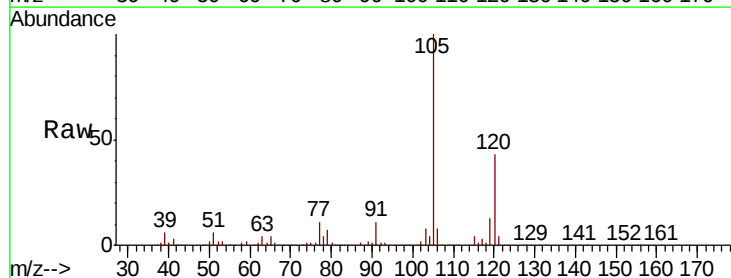
Instrument :
MSVOA_W
ClientSampleId :
KY001SB102-121118-(7-9)RE

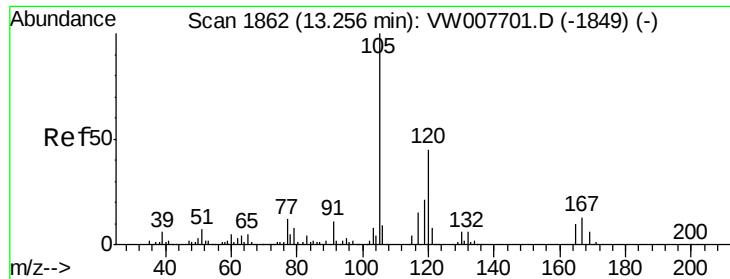
Tgt Ion: 91 Resp: 4899
Ion Ratio Lower Upper
91 100
126 0.0 16.5 49.5#



#83
tert-Butylbenzene
Concen: 21.041 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.04 min
Lab File: VW007763.D
Acq: 20 Dec 2018 22:18

Tgt Ion: 119 Resp: 20857
Ion Ratio Lower Upper
119 100
91 87.6 34.2 102.5
134 0.0 12.8 38.4#

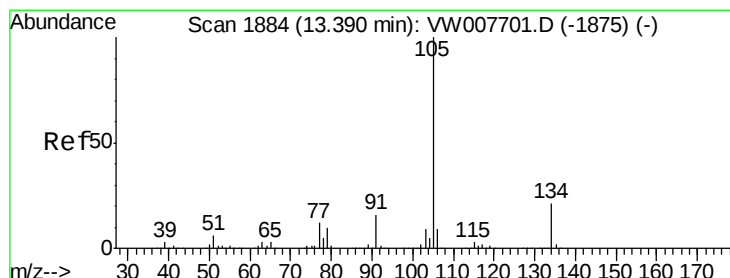
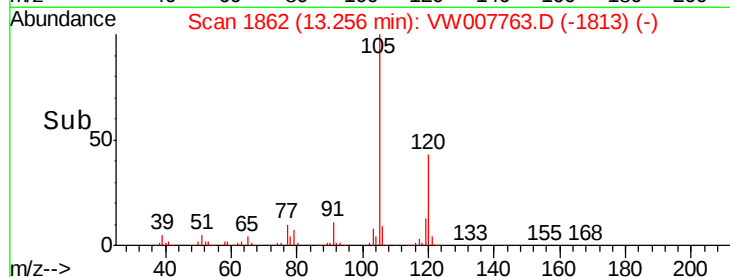
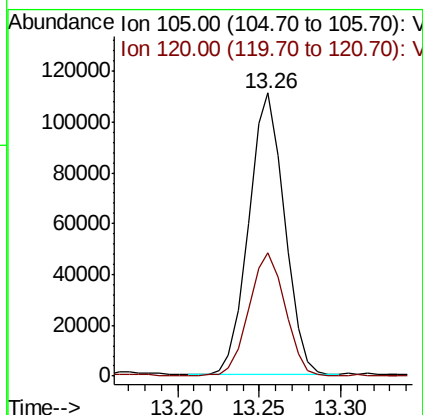
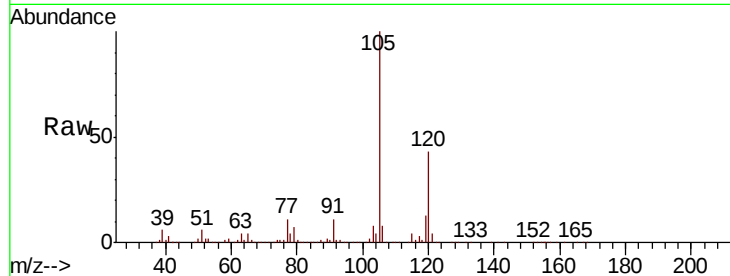




#84
1,2,4-Trimethylbenzene
Concen: 148.040 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW007763.D
Acq: 20 Dec 2018 22:18

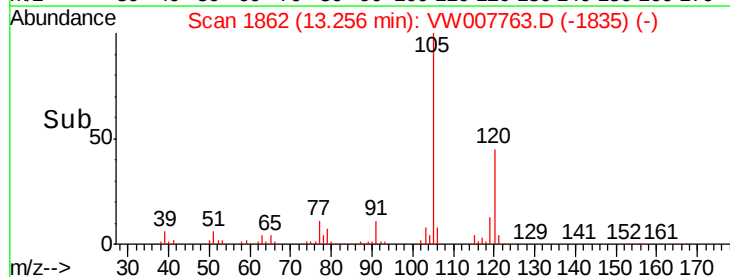
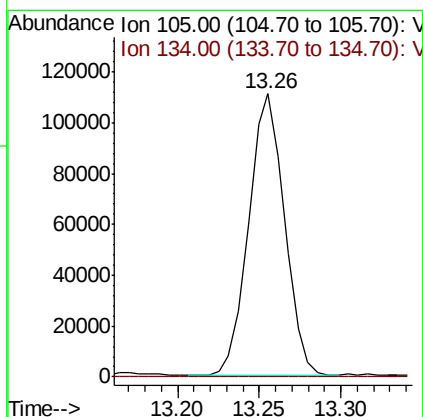
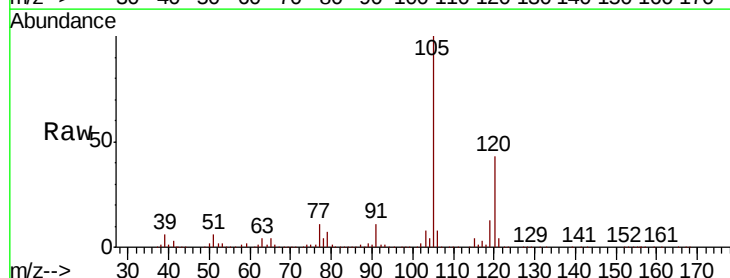
Instrument :
MSVOA_W
ClientSampleId :
KY001SB102-121118-(7-9)RE

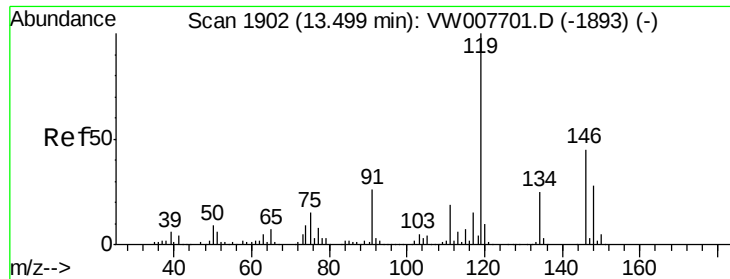
Tgt Ion:105 Resp: 168761
Ion Ratio Lower Upper
105 100
120 43.7 22.0 66.0



#85
sec-Butylbenzene
Concen: 123.532 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.13 min
Lab File: VW007763.D
Acq: 20 Dec 2018 22:18

Tgt Ion:105 Resp: 168761
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.4#

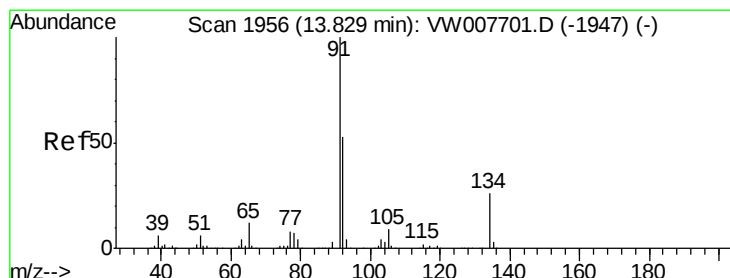
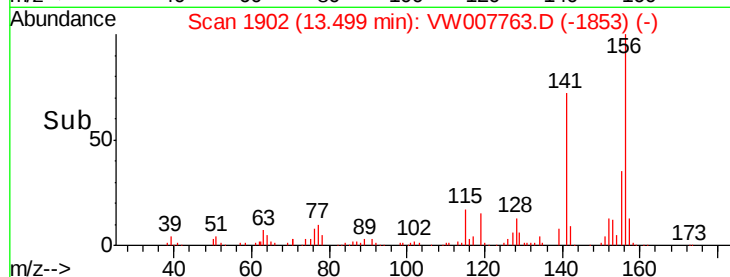
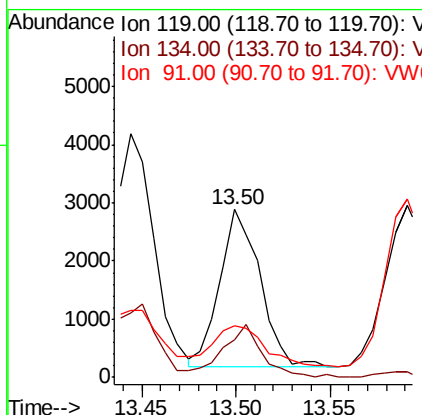
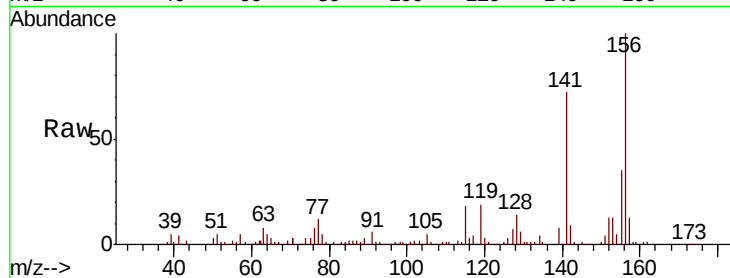




#86
 p-Isopropyltoluene
 Concen: 3.264 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW007763.D
 Acq: 20 Dec 2018 22:18

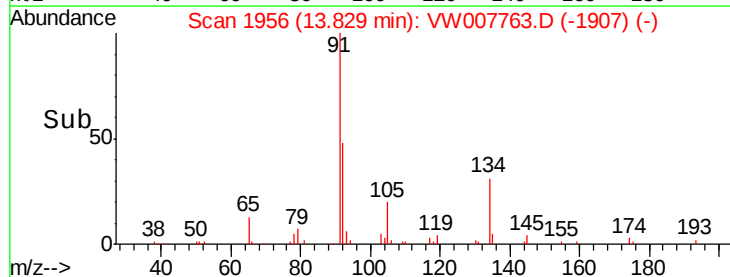
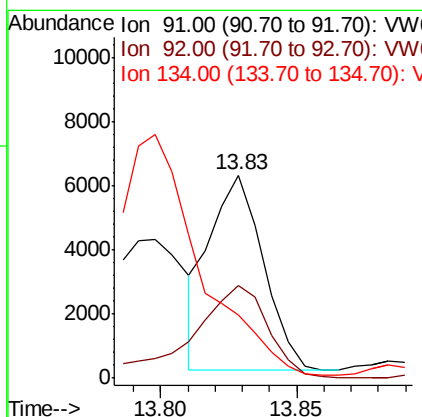
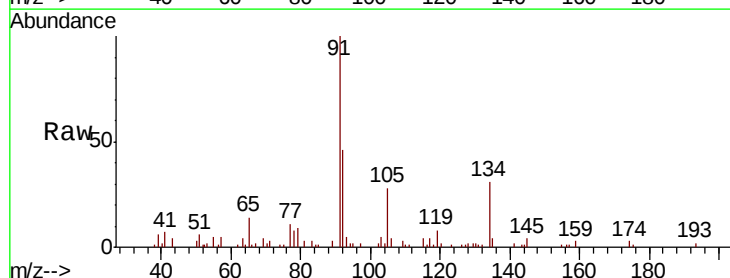
Instrument :
 MSVOA_W
 ClientSampleId :
 KY001SB102-121118-(7-9)RE

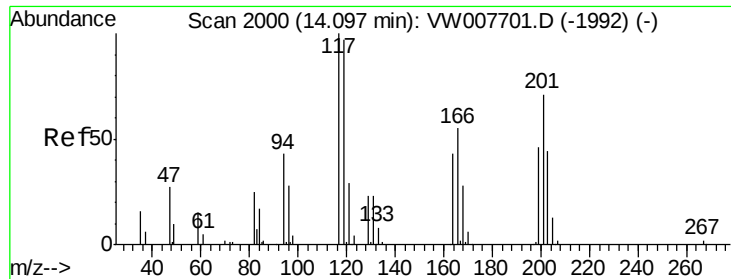
Tgt Ion: 119 Resp: 4055
 Ion Ratio Lower Upper
 119 100
 134 32.0 13.0 39.0
 91 33.8 12.8 38.4



#89
 n-Butylbenzene
 Concen: 7.332 ug/l
 RT: 13.83 min Scan# 1956
 Delta R.T. -0.00 min
 Lab File: VW007763.D
 Acq: 20 Dec 2018 22:18

Tgt Ion: 91 Resp: 8351
 Ion Ratio Lower Upper
 91 100
 92 66.5 26.4 79.2
 134 0.0 13.7 41.0#





#90

Hexachloroethane

Concen: 17.076 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW007763.D

Acq: 20 Dec 2018 22:18

Instrument :

MSVOA_W

ClientSampleId :

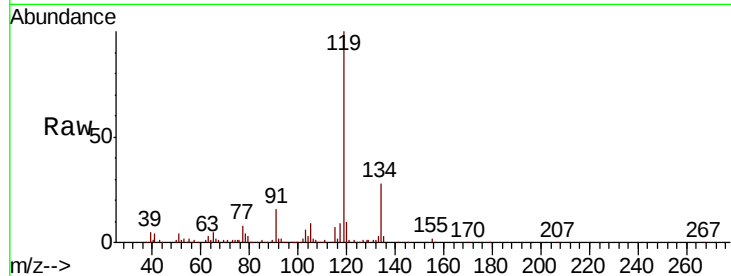
KY001SB102-121118-(7-9)RE

Tgt Ion:117 Resp: 3724

Ion Ratio Lower Upper

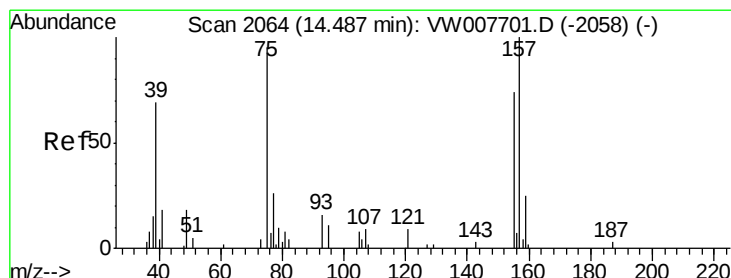
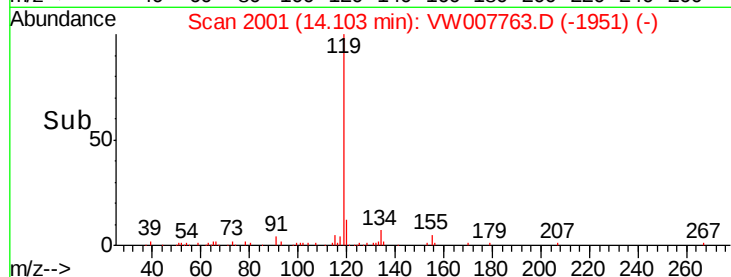
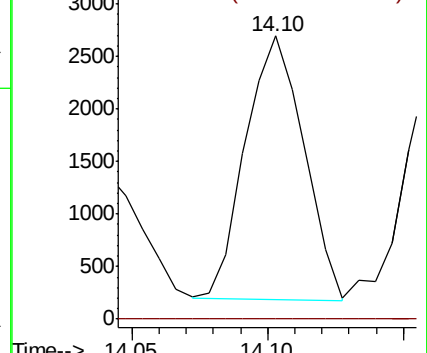
117 100

201 0.0 36.2 108.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.200 ug/l

RT: 14.46 min Scan# 2060

Delta R.T. -0.02 min

Lab File: VW007763.D

Acq: 20 Dec 2018 22:18

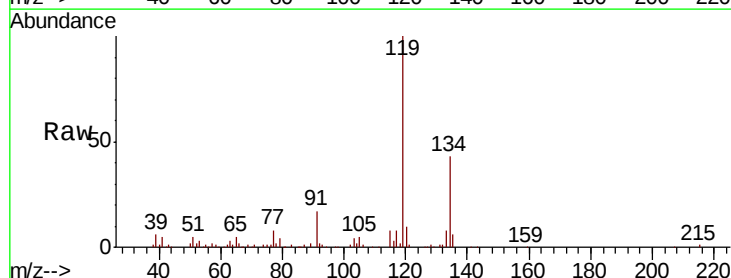
Tgt Ion: 75 Resp: 371

Ion Ratio Lower Upper

75 100

155 0.0 39.4 118.1#

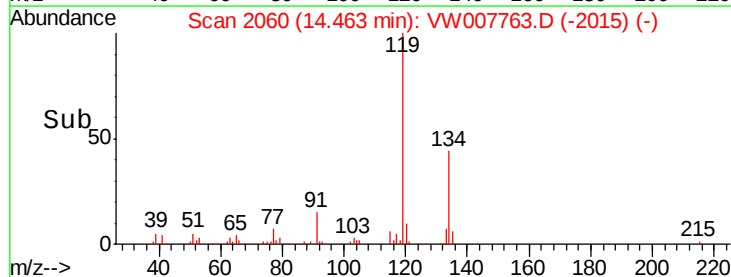
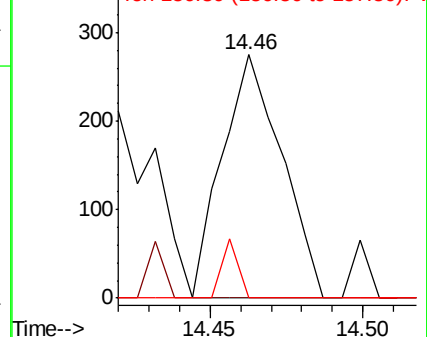
157 0.0 52.0 156.0#

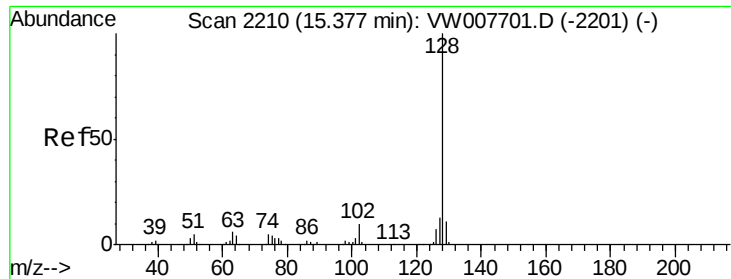


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

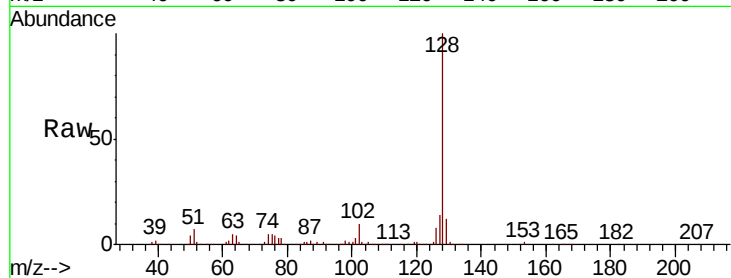




#95
Naphthalene
Concen: 127.531 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.01 min
Lab File: VW007763.D
Acq: 20 Dec 2018 22:18

Instrument :
MSVOA_W
ClientSampleId :
KY001SB102-121118-(7-9)RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.7	16.1
129	11.3	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

