

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY031120\
 Data File : VY001946.D
 Acq On : 11 Mar 2020 16:23
 Operator : SY/MD
 Sample : L1893-21
 Misc : 11.31G/5ML/MSVOA Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-14(8-9)

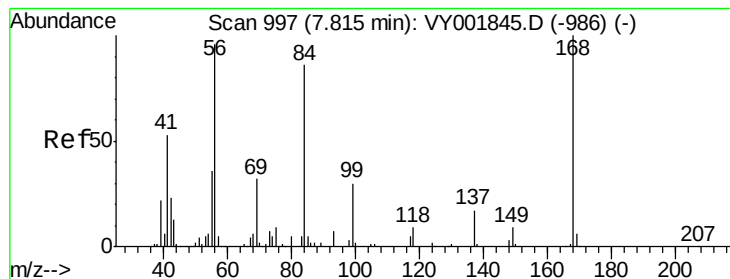
Quant Time: Mar 12 09:25:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 04:05:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	64712	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	193117	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	205623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	160890	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	74130	107.30	ug/l	0.00
Spiked Amount						
						Recovery = 214.60%
35) Dibromofluoromethane	7.74	113	76102	72.17	ug/l	0.00
Spiked Amount						
						Recovery = 144.34%
50) Toluene-d8	10.22	98	2500035	562.23	ug/l	0.02
Spiked Amount						
						Recovery = 1124.46%
62) 4-Bromofluorobenzene	12.49	95	1098569	710.51	ug/l	0.00
Spiked Amount						
						Recovery = 1421.02%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Cyclohexane	7.82	56	17572980	11575.580	ug/l	94
39) Methylcyclohexane	9.24	83	34056228	13816.978	ug/l #	90
40) Benzene	8.19	78	703711	127.757	ug/l	98
52) Toluene	10.28	92	743109	222.080	ug/l	86
67) Ethyl Benzene	11.62	91	17928753	2346.355	ug/l #	84
68) m/p-Xylenes	11.72	106	13238551	4686.224	ug/l	76
69) o-Xylene	12.05	106	1447728	543.719	ug/l	89
73) Isopropylbenzene	12.35	105	8357604	680.480	ug/l	99
78) n-propylbenzene	12.69	91	11500361	758.983	ug/l	96
80) 1,3,5-Trimethylbenzene	12.83	105	9437826	933.420	ug/l	92
83) tert-Butylbenzene	13.09	119	288234	34.322	ug/l #	69
84) 1,2,4-Trimethylbenzene	13.14	105	19598423	1953.148	ug/l	83
85) sec-Butylbenzene	13.27	105	2488679	201.049	ug/l #	67
86) p-Isopropyltoluene	13.39	119	2771452	259.546	ug/l	94
89) n-Butylbenzene	13.70	91	1602964	144.693	ug/l #	82
95) Naphthalene	15.24	128	446061	62.596	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY001946.D

Acq: 11 Mar 2020 16:23

Instrument :

MSVOA_Y

ClientSampleId :

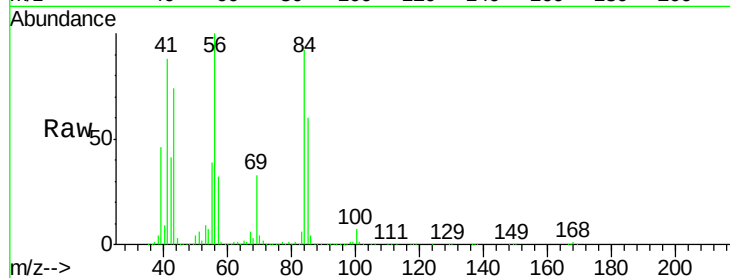
TP-14(8-9)

Tot Ion:168 Resp: 64712

Ion Ratio Lower Upper

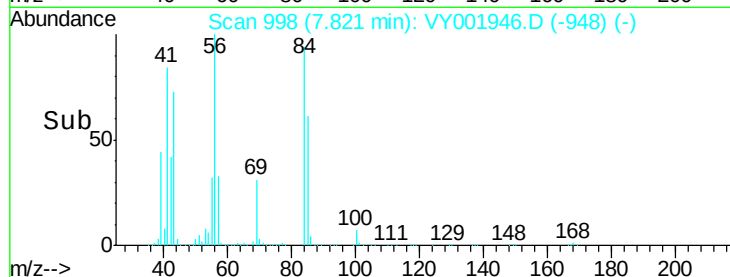
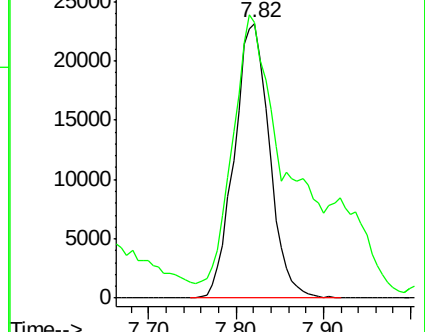
168 100

99 94.4 46.7 70.1#



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)



#31

Cyclohexane

Concen: 11575.580 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY001946.D

Acq: 11 Mar 2020 16:23

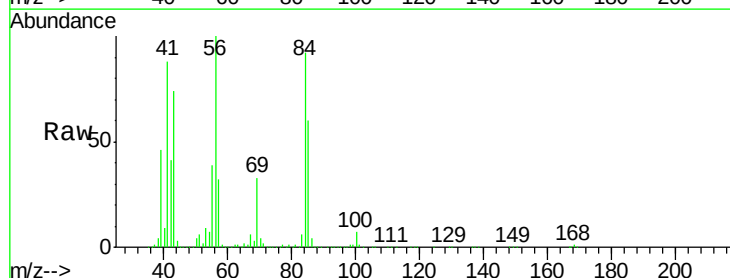
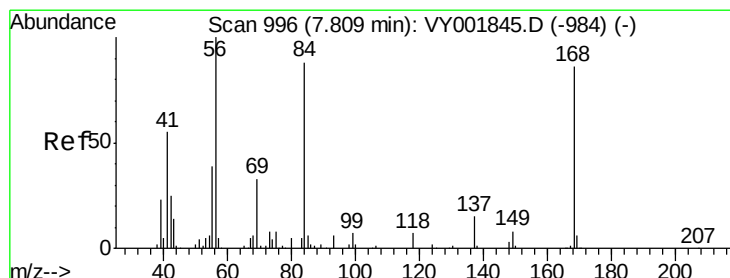
Tgt Ion: 56 Resp:17572980

Ion Ratio Lower Upper

56 100

69 29.6 26.7 40.1

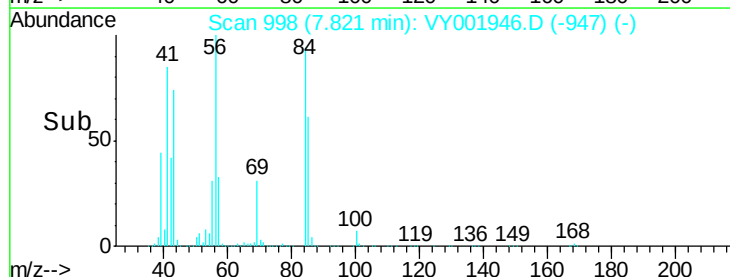
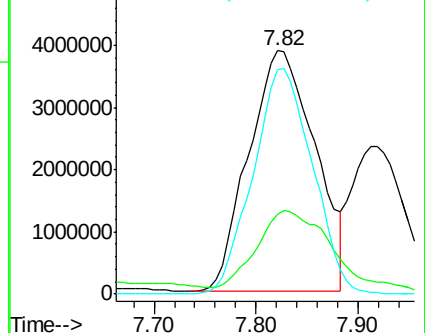
84 93.1 70.4 105.6

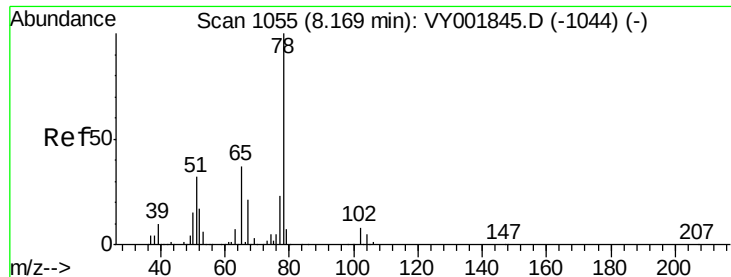


Abundance Ion 56.00 (55.70 to 56.70): VY001845.D (-984) (-)

Ion 69.00 (68.70 to 69.70): VY001845.D (-984) (-)

Ion 84.00 (83.70 to 84.70): VY001845.D (-984) (-)

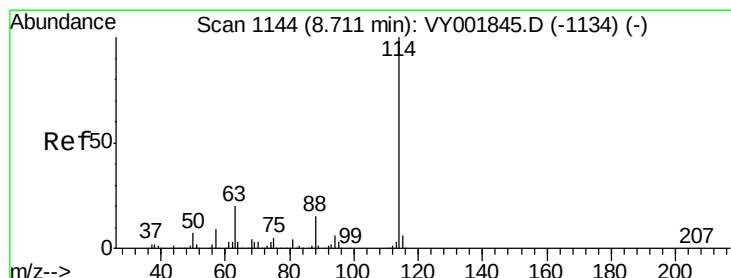
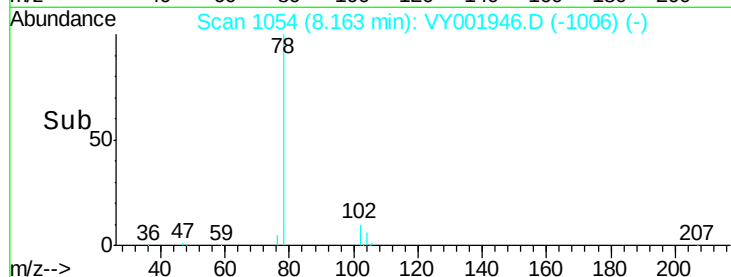
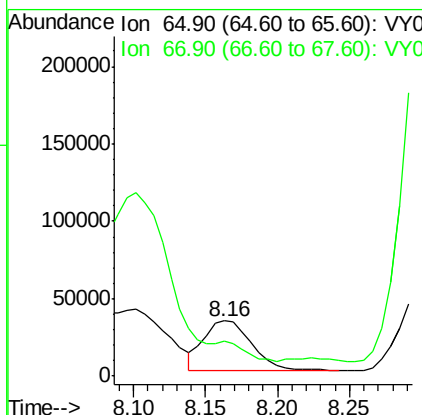
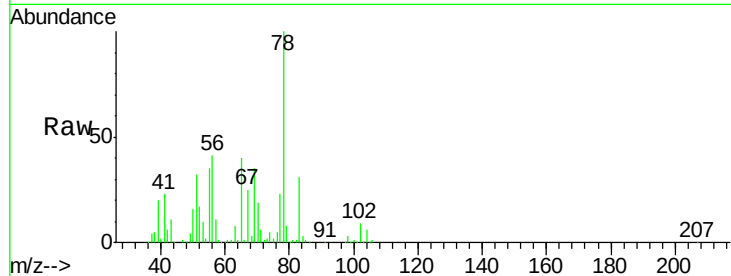




#33
 1,2-Dichloroethane-d4
 Concen: 107.304 ug/l
 RT: 8.16 min Scan# 1054
 Delta R.T. -0.01 min
 Lab File: VY001946.D
 Acq: 11 Mar 2020 16:23

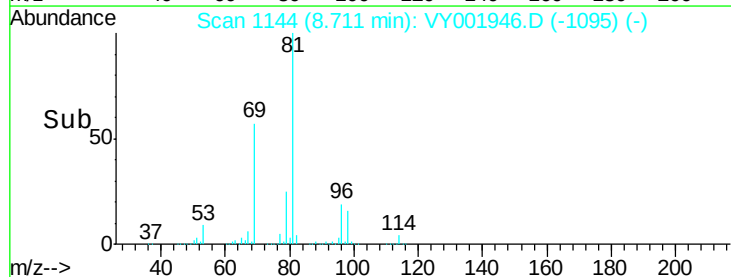
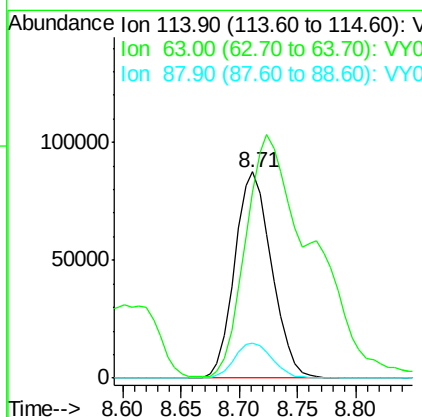
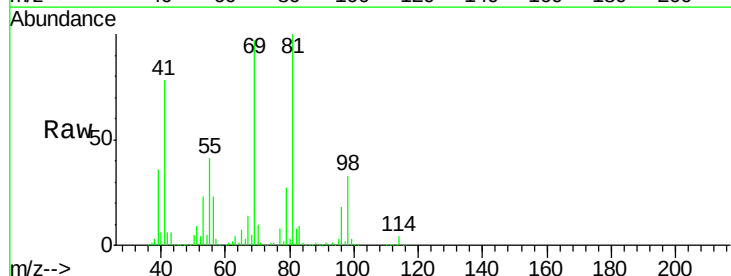
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-14(8-9)

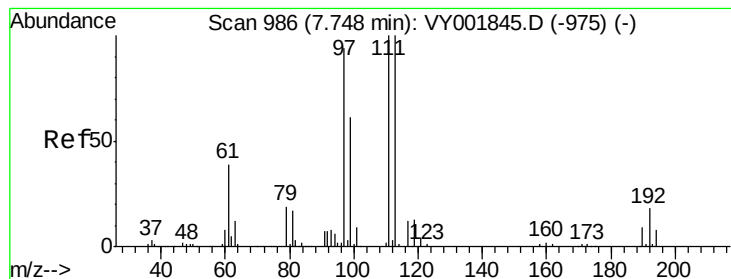
Tot Ion: 65 Resp: 74130
 Ion Ratio Lower Upper
 65 100
 67 0.0 0.0 110.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VY001946.D
 Acq: 11 Mar 2020 16:23

Tgt Ion: 114 Resp: 193117
 Ion Ratio Lower Upper
 114 100
 63 89.4 0.0 39.4#
 88 16.8 0.0 30.4





#35

Dibromofluoromethane

Concen: 72.168 ug/l

RT: 7.74 min Scan# 985

Delta R.T. -0.01 min

Lab File: VY001946.D

Acq: 11 Mar 2020 16:23

Instrument :

MSVOA_Y

ClientSampleId :

TP-14(8-9)

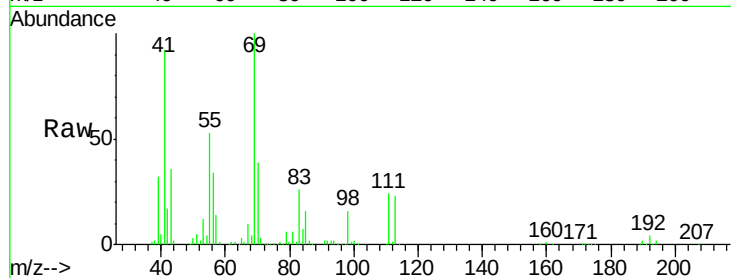
Tot Ion:113 Resp: 76102

Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.8

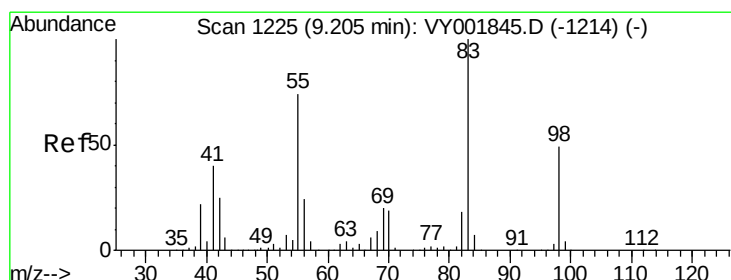
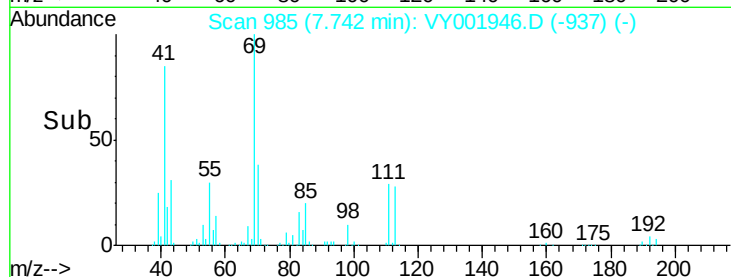
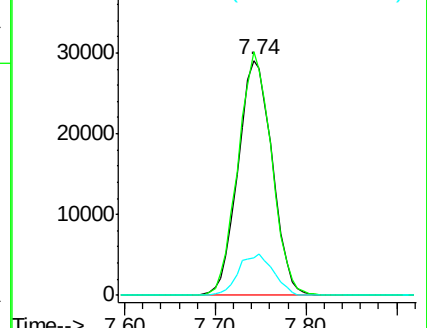
192 17.9 14.2 21.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#39

Methylcyclohexane

Concen: 13816.978 ug/l

RT: 9.24 min Scan# 1231

Delta R.T. 0.04 min

Lab File: VY001946.D

Acq: 11 Mar 2020 16:23

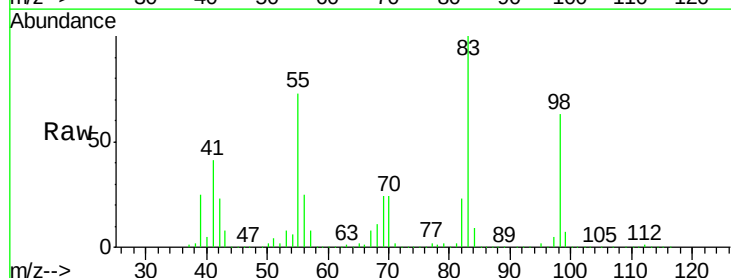
Tgt Ion: 83 Resp:34056228

Ion Ratio Lower Upper

83 100

55 72.1 59.4 89.0

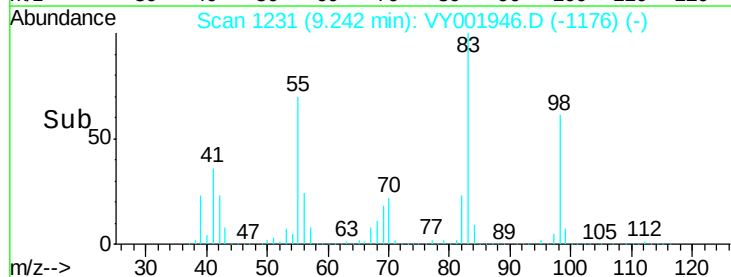
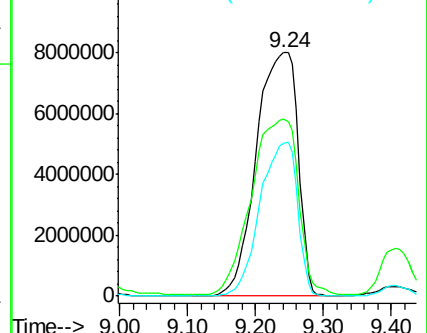
98 62.9 38.9 58.3#

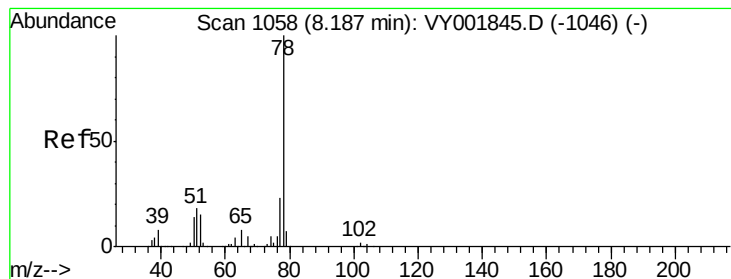


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0





#40

Benzene

Concen: 127.757 ug/l

RT: 8.19 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VY001946.D

Acq: 11 Mar 2020 16:23

Instrument :

MSVOA_Y

ClientSampleId :

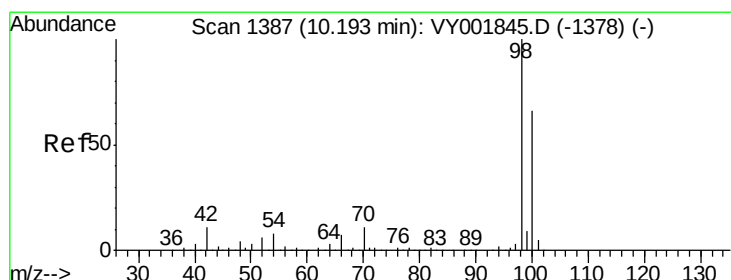
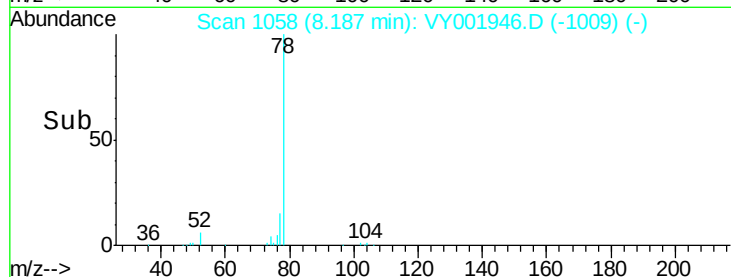
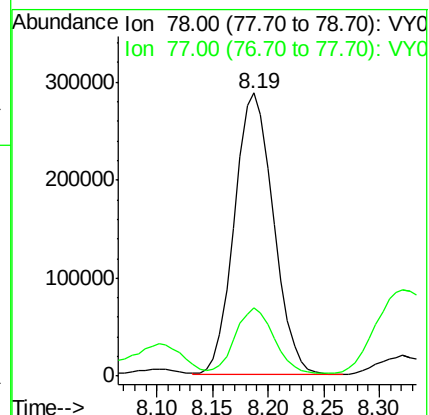
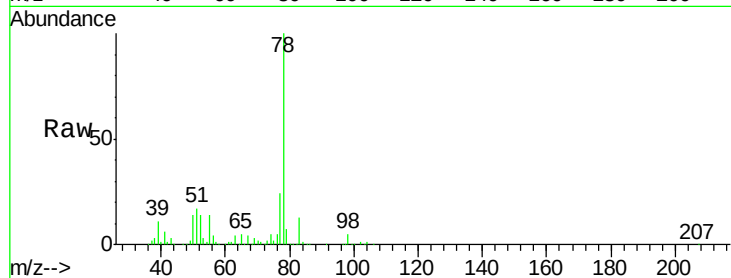
TP-14(8-9)

Tot Ion: 78 Resp: 703711

Ion Ratio Lower Upper

78 100

77 22.4 18.7 28.1



#50

Toluene-d8

Concen: 562.226 ug/l

RT: 10.22 min Scan# 1391

Delta R.T. 0.02 min

Lab File: VY001946.D

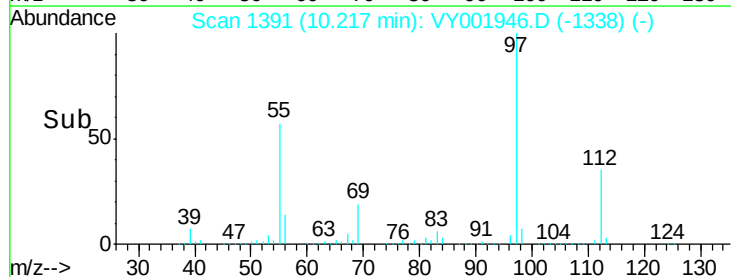
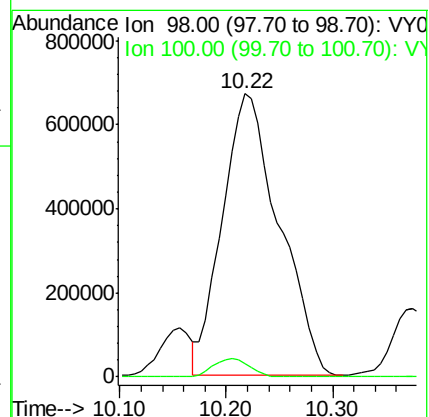
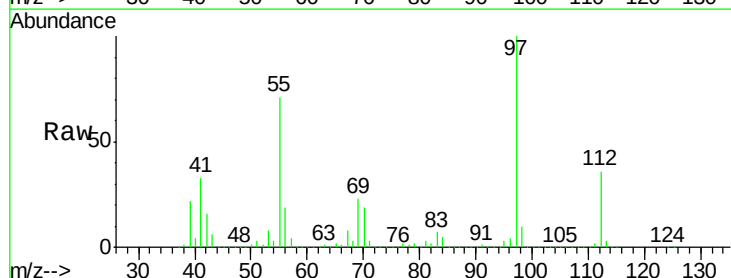
Acq: 11 Mar 2020 16:23

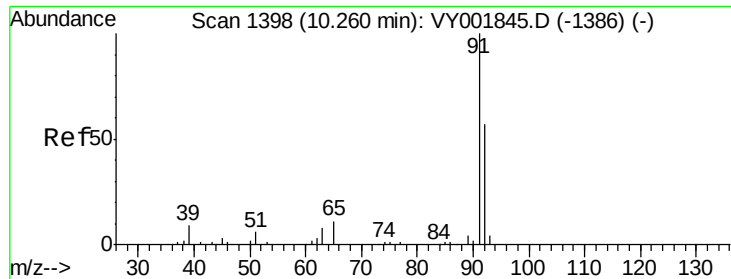
Tgt Ion: 98 Resp: 2500035

Ion Ratio Lower Upper

98 100

100 4.2 53.0 79.4#





#52

Toluene

Concen: 222.080 ug/l

RT: 10.28 min Scan# 1401

Delta R.T. 0.02 min

Lab File: VY001946.D

Acq: 11 Mar 2020 16:23

Instrument :

MSVOA_Y

ClientSampleId :

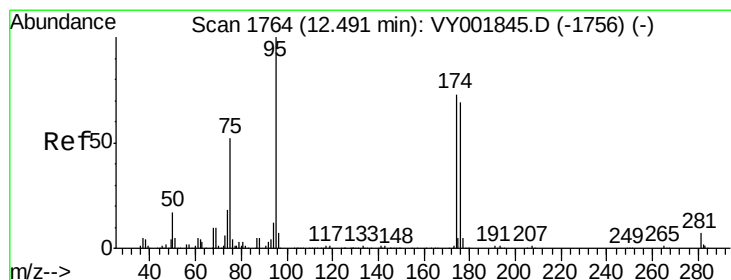
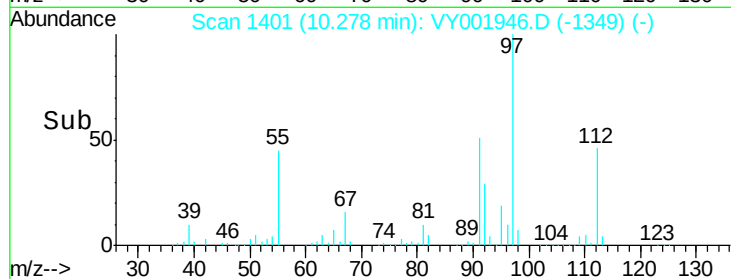
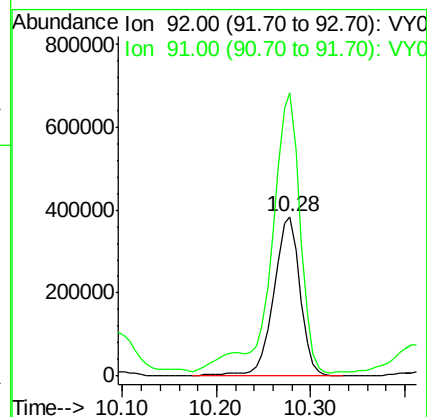
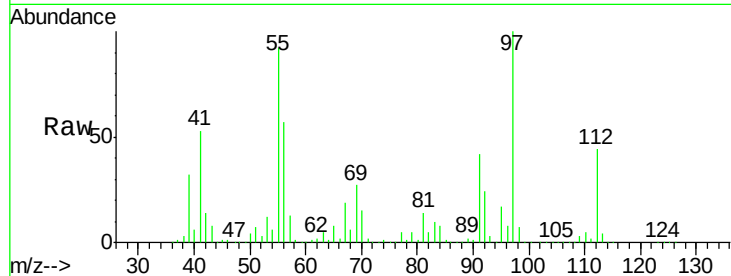
TP-14(8-9)

Tot Ion: 92 Resp: 743109

Ion Ratio Lower Upper

92 100

91 192.3 138.6 208.0



#62

4-Bromofluorobenzene

Concen: 710.513 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VY001946.D

Acq: 11 Mar 2020 16:23

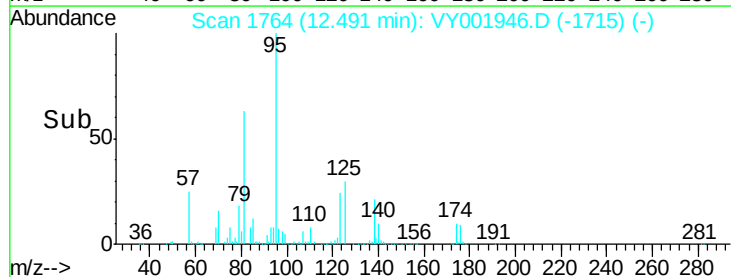
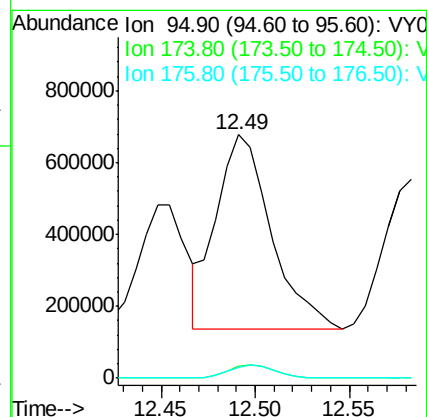
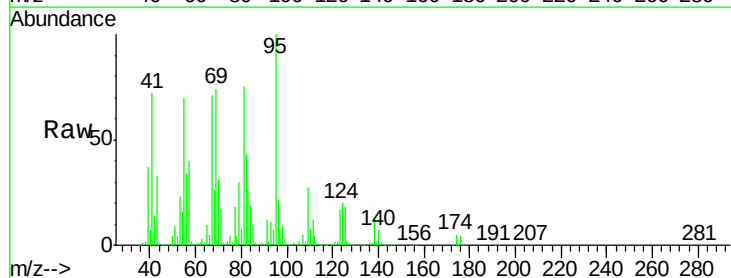
Tgt Ion: 95 Resp: 1098569

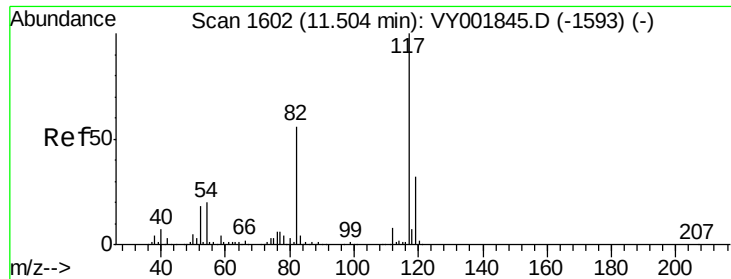
Ion Ratio Lower Upper

95 100

174 5.7 0.0 145.0

176 5.6 0.0 137.4

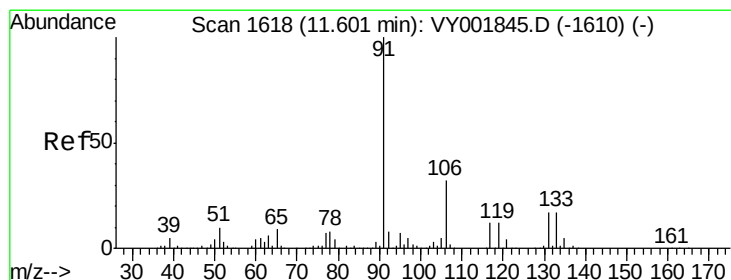
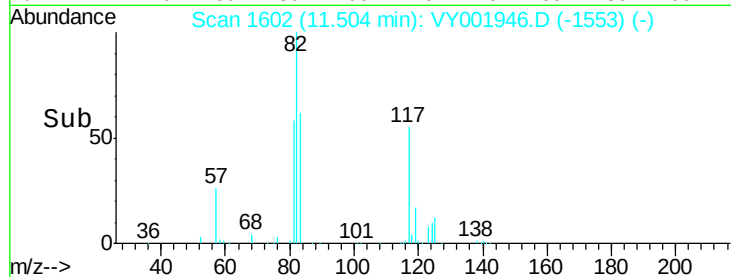
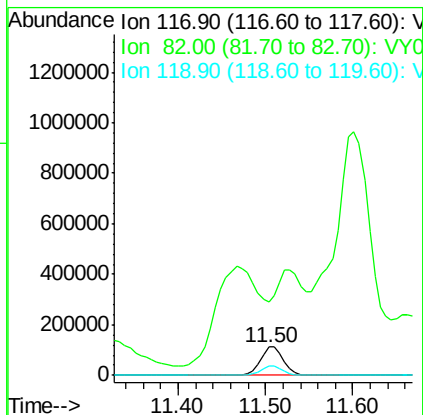
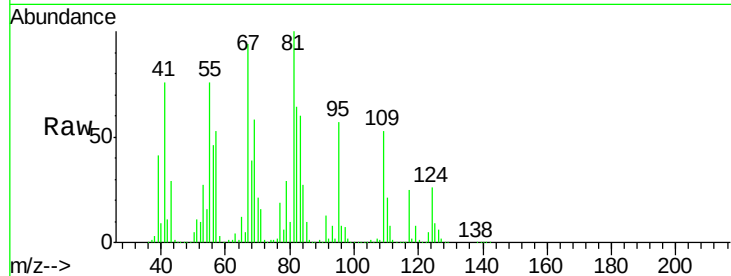




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VY001946.D
Acq: 11 Mar 2020 16:23

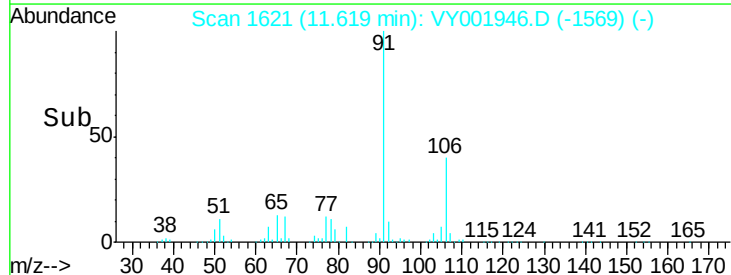
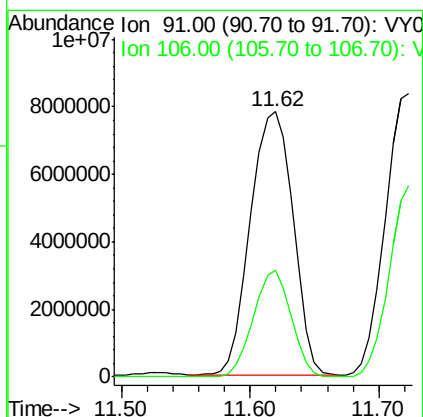
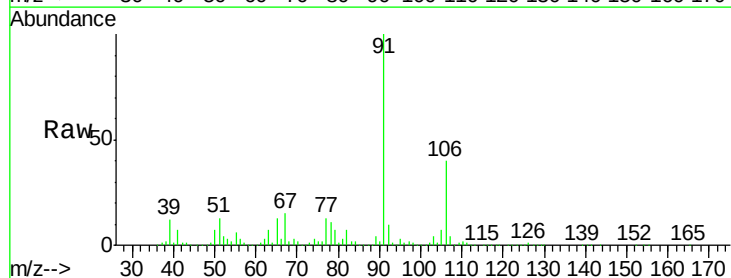
Instrument :
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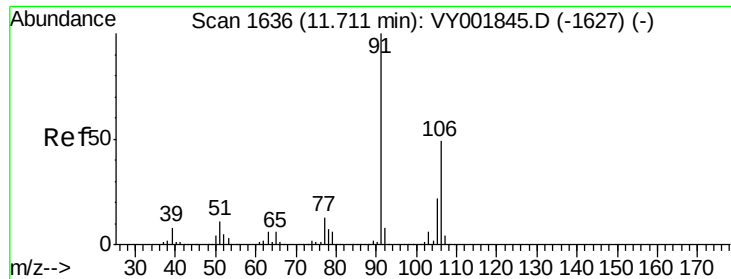
Tot Ion:117 Resp: 205623
Ion Ratio Lower Upper
117 100
82 219.6 44.5 66.7#
119 31.2 25.7 38.5



#67
Ethyl Benzene
Concen: 2346.355 ug/l
RT: 11.62 min Scan# 1621
Delta R.T. 0.02 min
Lab File: VY001946.D
Acq: 11 Mar 2020 16:23

Tgt Ion: 91 Resp:17928753
Ion Ratio Lower Upper
91 100
106 40.5 25.4 38.2#





#68

m/p-Xylenes

Concen: 4686.224 ug/l

RT: 11.72 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VY001946.D

Acq: 11 Mar 2020 16:23

Instrument :

MSVOA_Y

ClientSampleId :

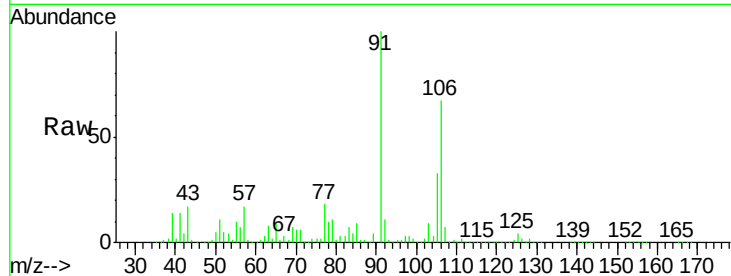
TP-14(8-9)

Tot Ion:106 Resp:13238551

Ion Ratio Lower Upper

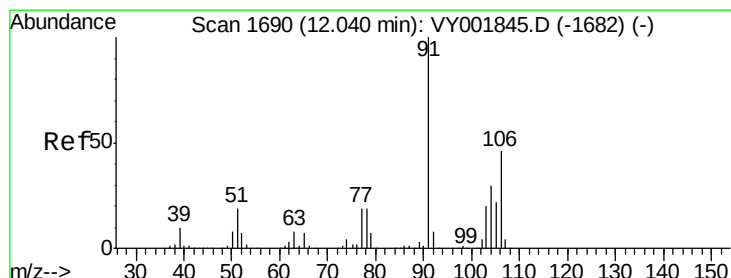
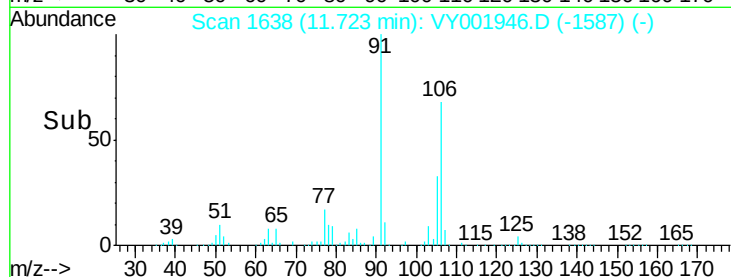
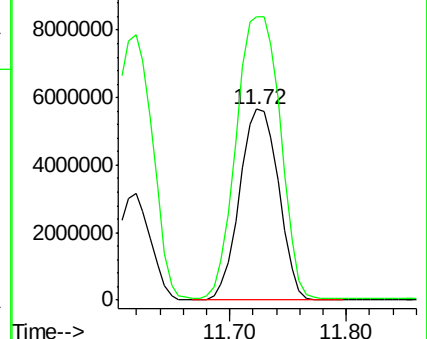
106 100

91 165.7 161.3 241.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#69

o-Xylene

Concen: 543.719 ug/l

RT: 12.05 min Scan# 1692

Delta R.T. 0.01 min

Lab File: VY001946.D

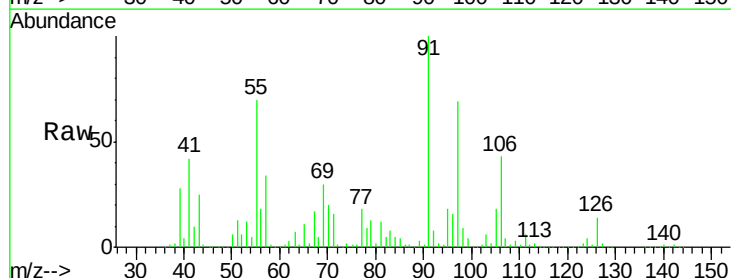
Acq: 11 Mar 2020 16:23

Tgt Ion:106 Resp: 1447728

Ion Ratio Lower Upper

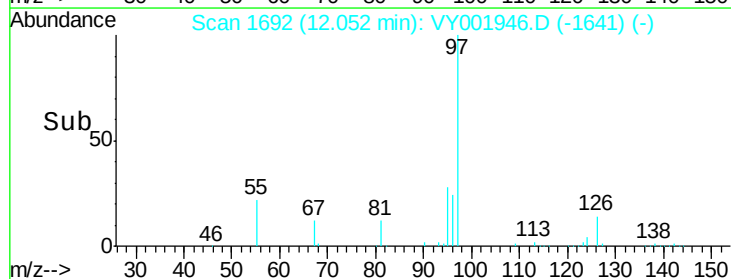
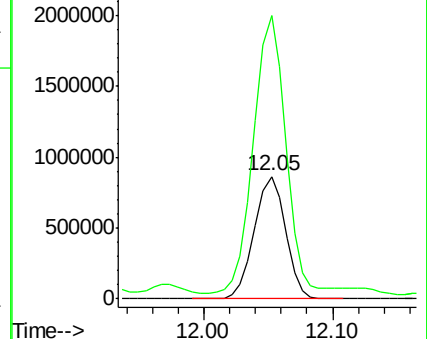
106 100

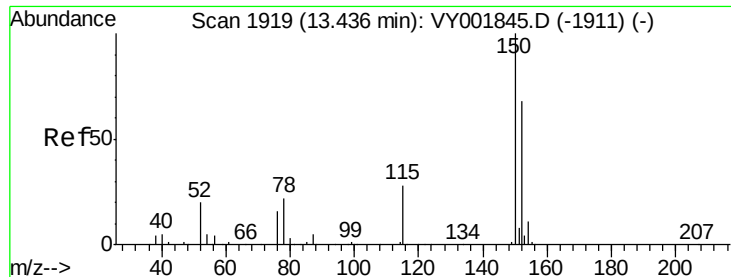
91 231.7 106.8 320.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0

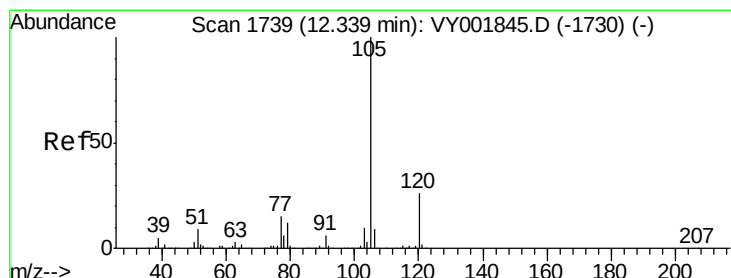
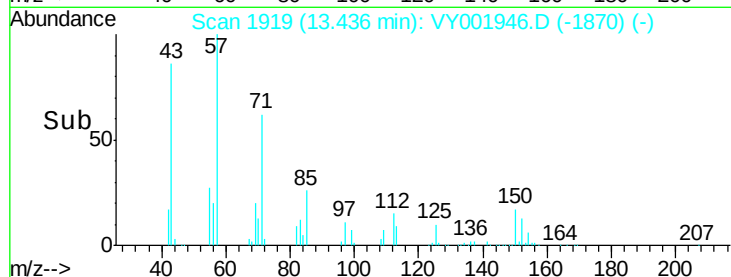
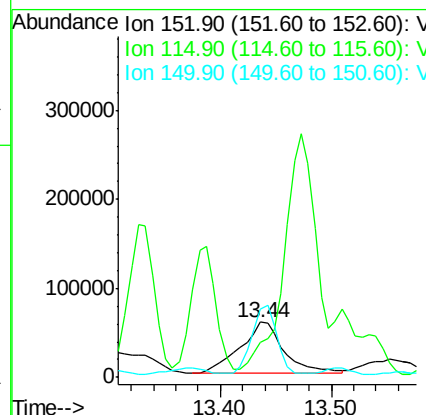
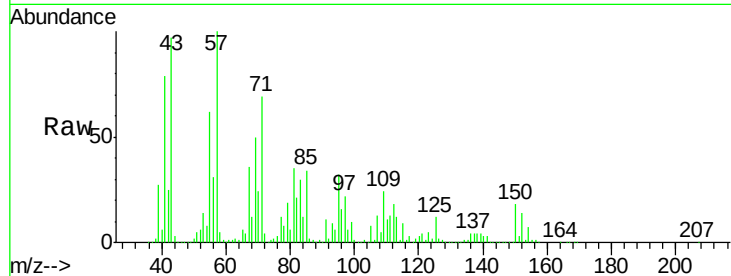




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.44 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VY001946.D
 Acq: 11 Mar 2020 16:23

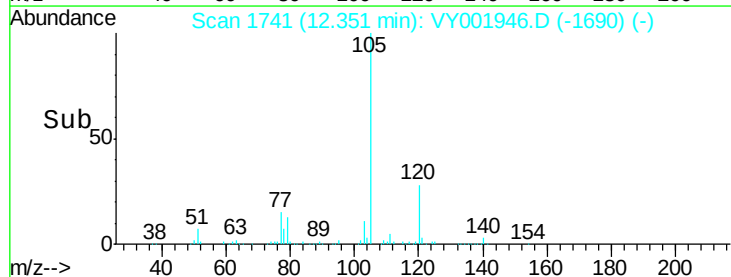
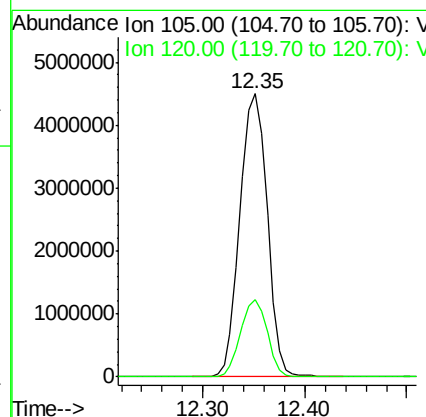
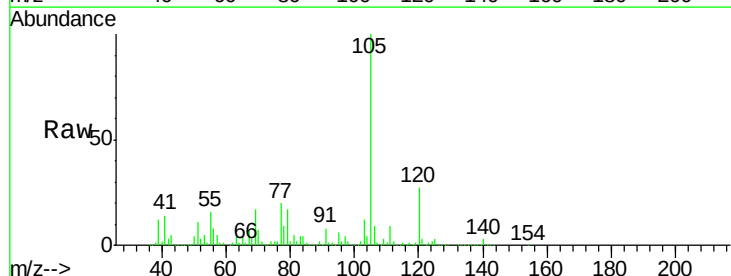
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-14(8-9)

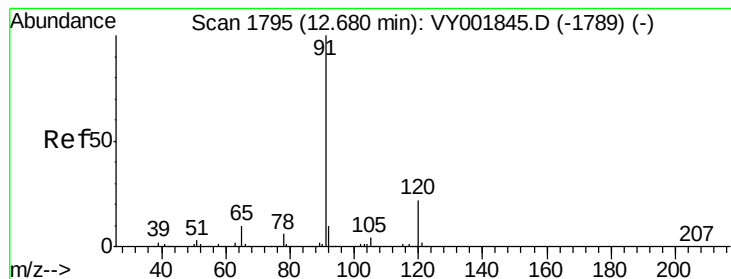
Tot Ion:152 Resp: 160890
 Ion Ratio Lower Upper
 152 100
 115 0.0 29.9 89.7#
 150 78.3 0.0 340.6



#73
 Isopropylbenzene
 Concen: 680.480 ug/l
 RT: 12.35 min Scan# 1741
 Delta R.T. 0.01 min
 Lab File: VY001946.D
 Acq: 11 Mar 2020 16:23

Tgt Ion:105 Resp: 8357604
 Ion Ratio Lower Upper
 105 100
 120 26.7 13.1 39.3





#78

n-propylbenzene

Concen: 758.983 ug/l

RT: 12.69 min Scan# 1797

Delta R.T. 0.01 min

Lab File: VY001946.D

Acq: 11 Mar 2020 16:23

Instrument :

MSVOA_Y

ClientSampleId :

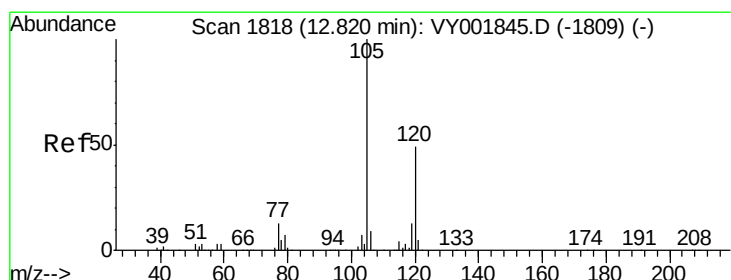
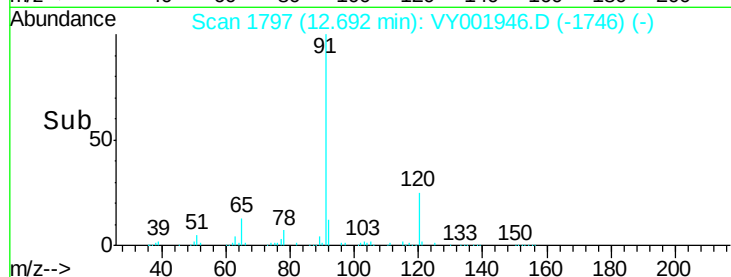
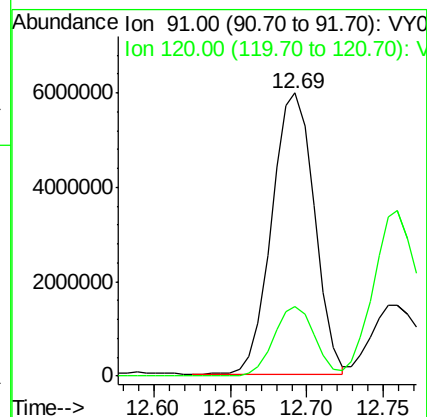
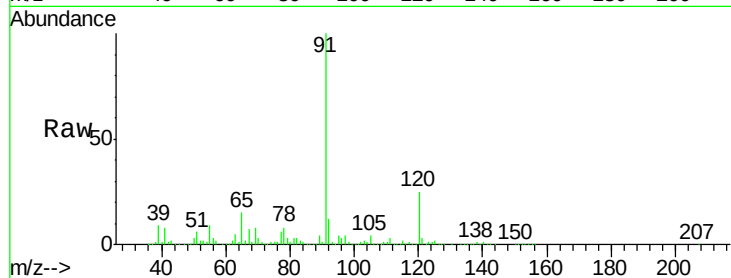
TP-14(8-9)

Tot Ion: 91 Resp: 11500361

Ion Ratio Lower Upper

91 100

120 23.9 11.0 33.0



#80

1,3,5-Trimethylbenzene

Concen: 933.420 ug/l

RT: 12.83 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VY001946.D

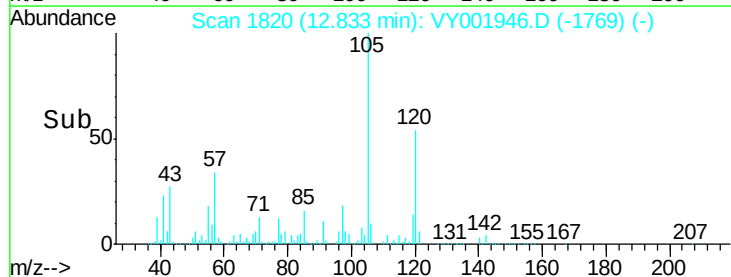
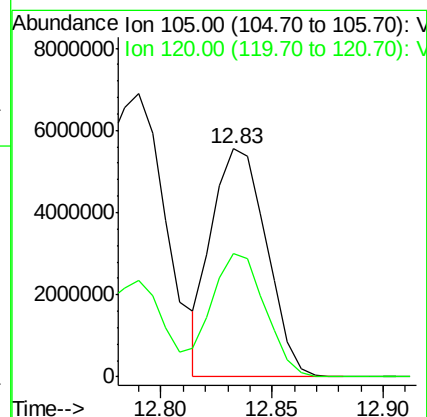
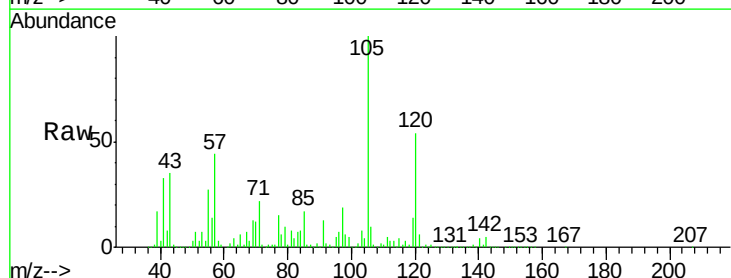
Acq: 11 Mar 2020 16:23

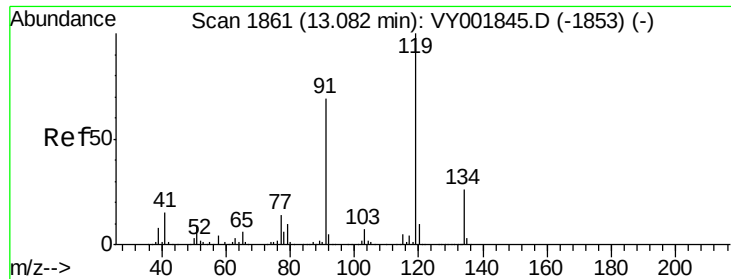
Tgt Ion: 105 Resp: 9437826

Ion Ratio Lower Upper

105 100

120 54.5 24.4 73.2

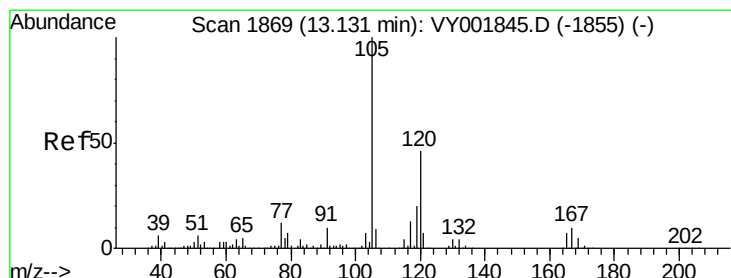
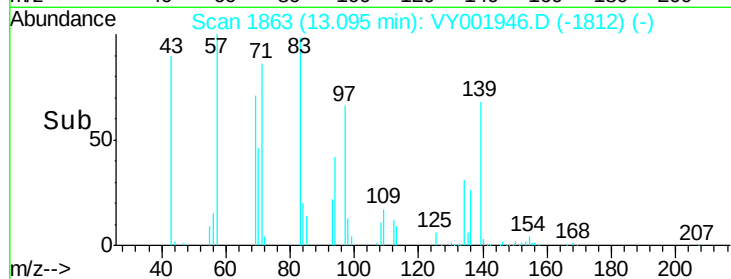
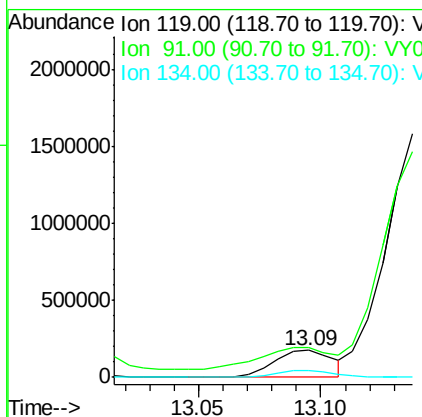
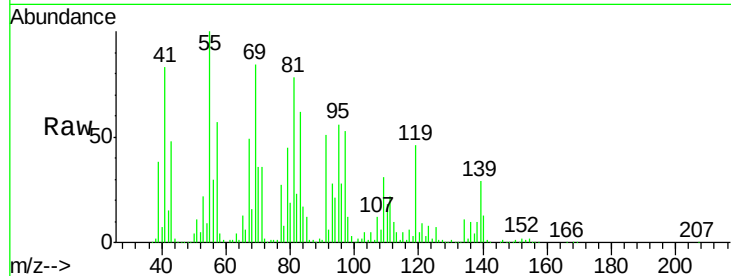




#83
 tert-Butylbenzene
 Concen: 34.322 ug/l
 RT: 13.09 min Scan# 1863
 Delta R.T. 0.01 min
 Lab File: VY001946.D
 Acq: 11 Mar 2020 16:23

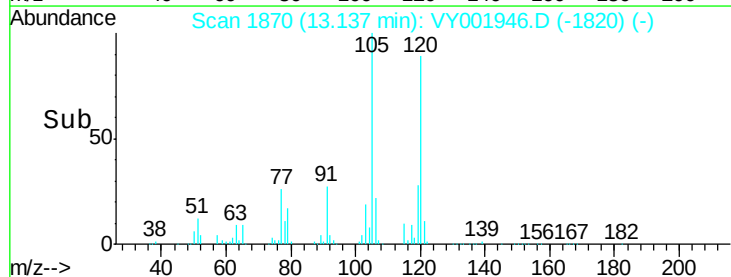
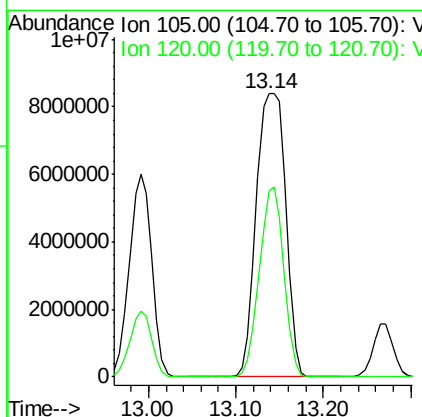
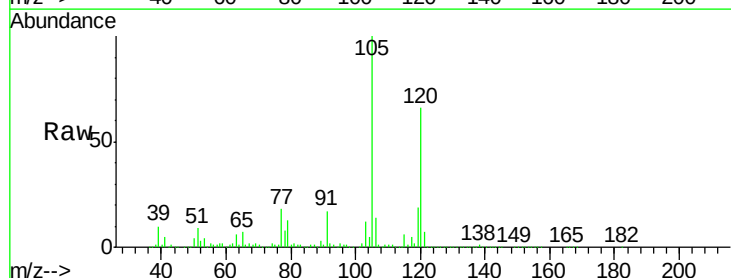
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-14(8-9)

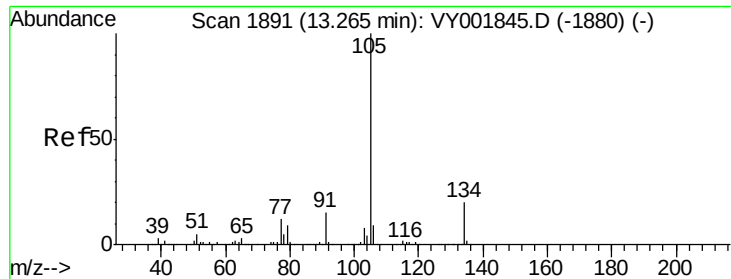
Tot Ion:119 Resp: 288234
 Ion Ratio Lower Upper
 119 100
 91 101.9 34.0 101.8#
 134 25.6 13.5 40.4



#84
 1,2,4-Trimethylbenzene
 Concen: 1953.148 ug/l
 RT: 13.14 min Scan# 1870
 Delta R.T. 0.01 min
 Lab File: VY001946.D
 Acq: 11 Mar 2020 16:23

Tgt Ion:105 Resp:19598423
 Ion Ratio Lower Upper
 105 100
 120 55.9 22.6 67.7





#85

sec-Butylbenzene

Concen: 201.049 ug/l

RT: 13.27 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VY001946.D

Acq: 11 Mar 2020 16:23

Instrument :

MSVOA_Y

ClientSampleId :

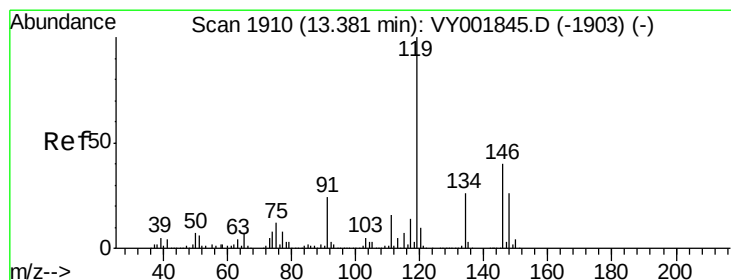
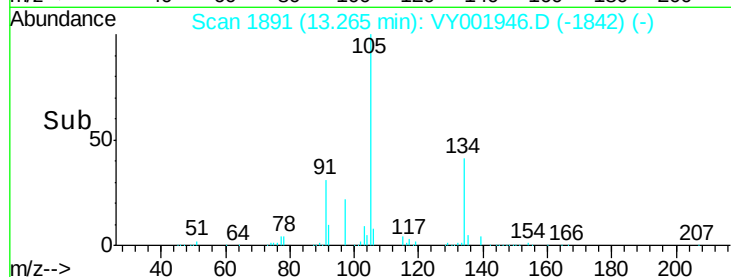
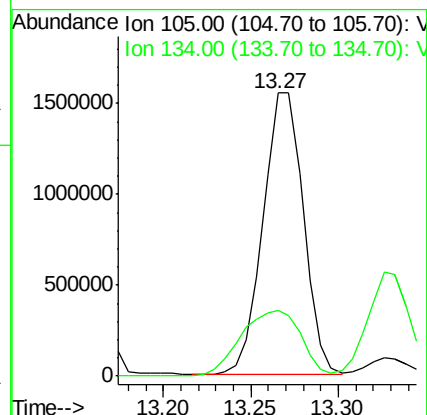
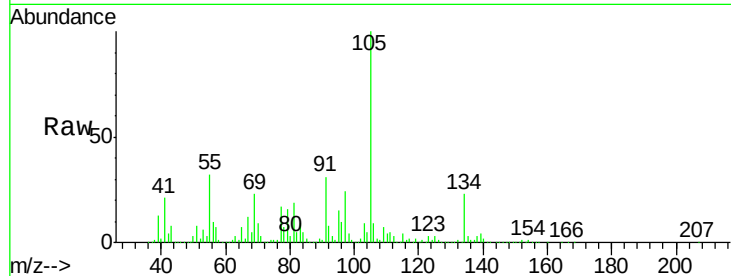
TP-14(8-9)

Tot Ion:105 Resp: 2488679

Ion Ratio Lower Upper

105 100

134 34.5 9.7 29.1#



#86

p-Isopropyltoluene

Concen: 259.546 ug/l

RT: 13.39 min Scan# 1911

Delta R.T. 0.01 min

Lab File: VY001946.D

Acq: 11 Mar 2020 16:23

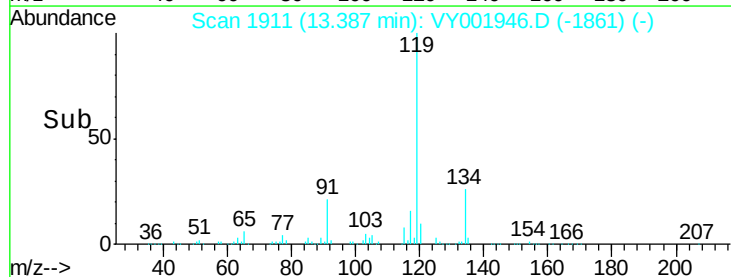
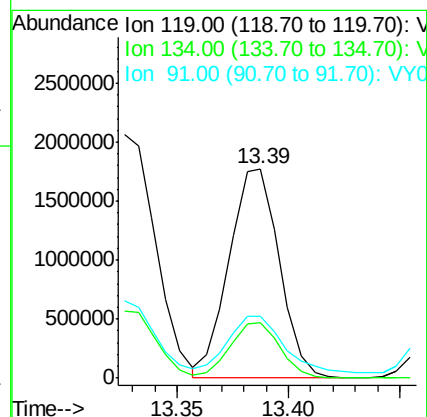
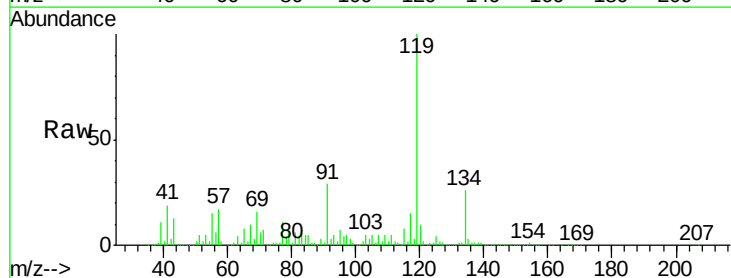
Tgt Ion:119 Resp: 2771452

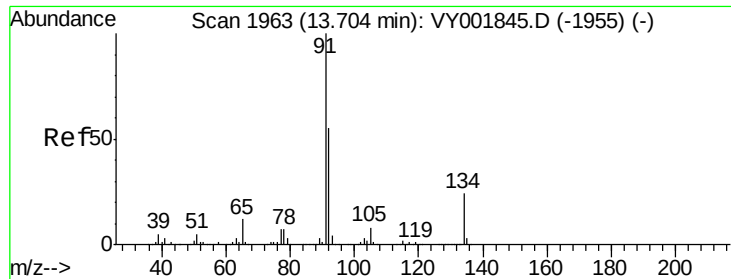
Ion Ratio Lower Upper

119 100

134 26.5 13.1 39.3

91 29.7 11.9 35.7

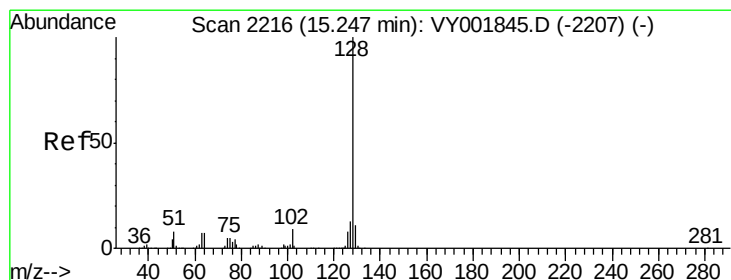
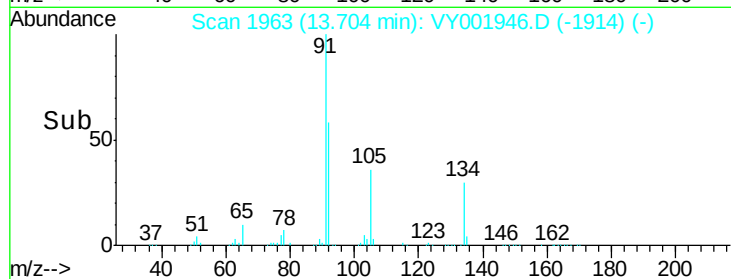
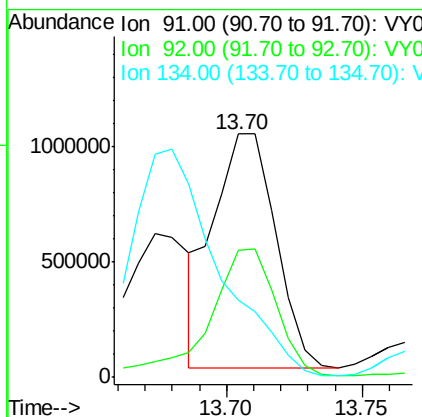
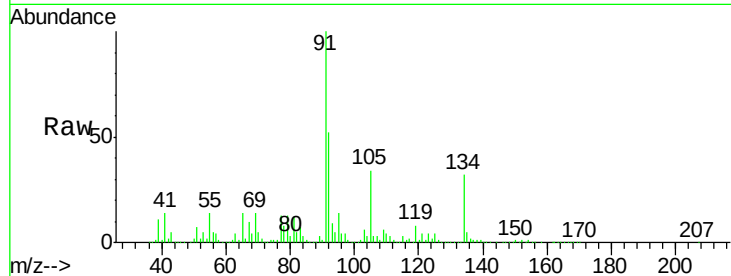




#89
n-Butylbenzene
Concen: 144.693 ug/l
RT: 13.70 min Scan# 1963
Delta R.T. 0.00 min
Lab File: VY001946.D
Acq: 11 Mar 2020 16:23

Instrument :
MSVOA_Y
ClientSampleId :
TP-14(8-9)

Tot Ion: 91 Resp: 1602964
Ion Ratio Lower Upper
91 100
92 57.7 27.5 82.4
134 0.0 12.5 37.5#



#95
Naphthalene
Concen: 62.596 ug/l
RT: 15.24 min Scan# 2215
Delta R.T. -0.01 min
Lab File: VY001946.D
Acq: 11 Mar 2020 16:23

Tgt Ion: 128 Resp: 446061
Ion Ratio Lower Upper
128 100
127 12.6 10.1 15.1
129 11.2 8.6 13.0

