

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY031220\
 Data File : VY001959.D
 Acq On : 12 Mar 2020 17:11
 Operator : SY/MD
 Sample : L1762-13
 Misc : 9.03G/5ML/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-04-031220

Quant Time: Mar 13 05:42:11 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	7.81	168	166733	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	316365	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	264406	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	91399	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.16	65	98224	55.18	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	110.36%	
35) Dibromofluoromethane	7.74	113	93246	53.98	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	107.96%	
50) Toluene-d8	10.19	98	375716	51.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.16%	
62) 4-Bromofluorobenzene	12.49	95	114656	45.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.54%	

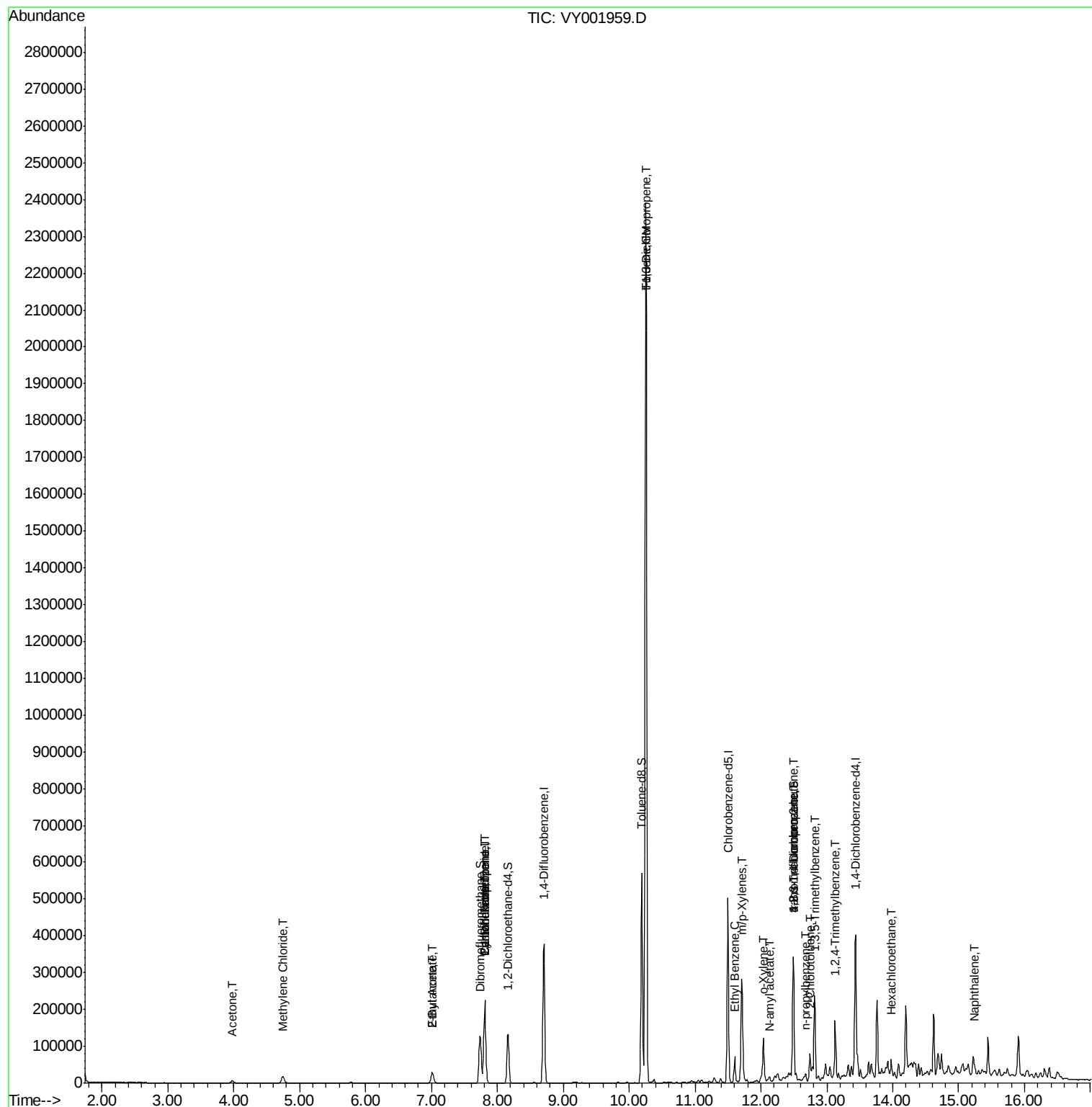
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.97	59	193	Below Cal	#	74
16) Acetone	3.97	43	11076	21.36	ug/l	96
20) Methylene Chloride	4.74	84	13951	6.28	ug/l	98
25) 2-Butanone	7.01	43	49091	62.27	ug/l	96
31) Cyclohexane	7.81	56	3967	1.01	ug/l	# 1
36) 1,1-Dichloropropene	7.80	75	13854	4.55	ug/l	# 49
37) Ethyl Acetate	7.01	43	49091	27.74	ug/l	# 69
38) Carbon Tetrachloride	7.81	117	17133	6.59	ug/l	# 16
52) Toluene	10.25	92	996078	181.71	ug/l	99
53) t-1,3-Dichloropropene	10.25	75	11178	3.77	ug/l	# 1
67) Ethyl Benzene	11.60	91	47637	4.85	ug/l	97
68) m/p-Xylenes	11.70	106	78051	21.49	ug/l	100
69) o-Xylene	12.04	106	30225	8.83	ug/l	99
74) N-amyl acetate	12.13	43	5847	2.73	ug/l	# 56
76) 1,2,3-Trichloropropane	12.49	75	56010	51.65	ug/l	# 100
78) n-propylbenzene	12.68	91	14800	1.72	ug/l	100
79) 2-Chlorotoluene	12.74	91	5751	1.21	ug/l	# 42
80) 1,3,5-Trimethylbenzene	12.82	105	33809	5.89	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.49	75	56010	104.32	ug/l	# 17
84) 1,2,4-Trimethylbenzene	13.13	105	85888	15.07	ug/l	99
90) Hexachloroethane	13.98	117	1680	1.47	ug/l	# 18
95) Naphthalene	15.25	128	14078	3.48	ug/l	# 89

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Instrument :

MSVOA_Y

ClientSampleId :

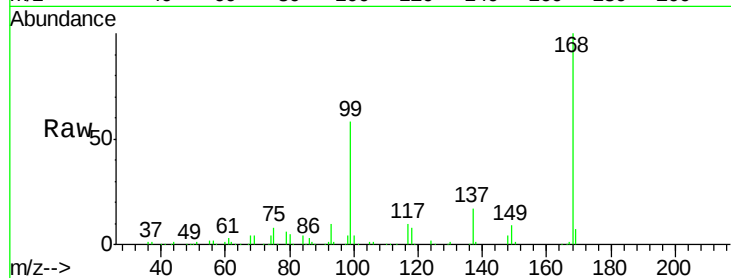
TR-04-031220

Tgt Ion:168 Resp: 166733

Ion Ratio Lower Upper

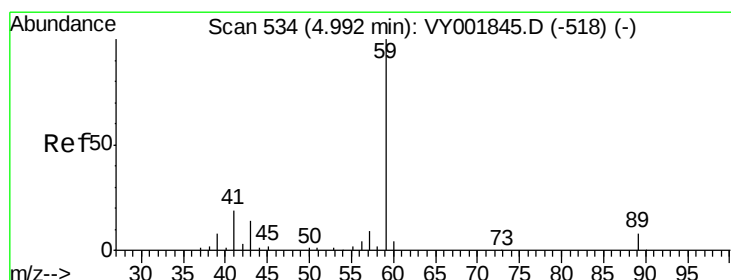
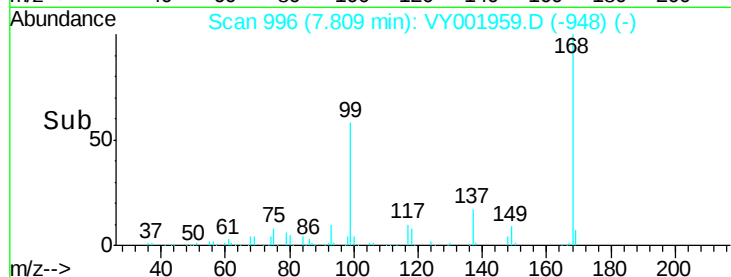
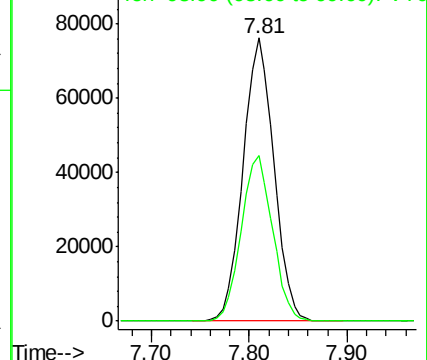
168 100

99 58.4 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) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.97 min Scan# 531

Delta R.T. -0.02 min

Lab File: VY001959.D

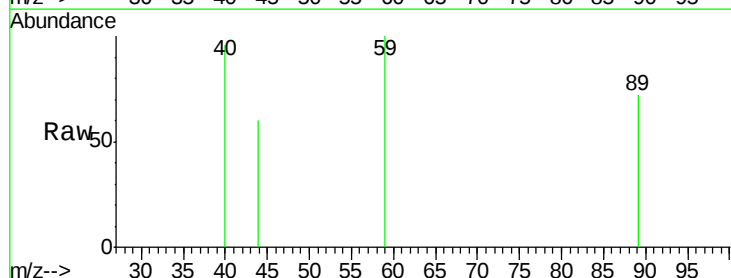
Acq: 12 Mar 2020 17:11

Tgt Ion: 59 Resp: 193

Ion Ratio Lower Upper

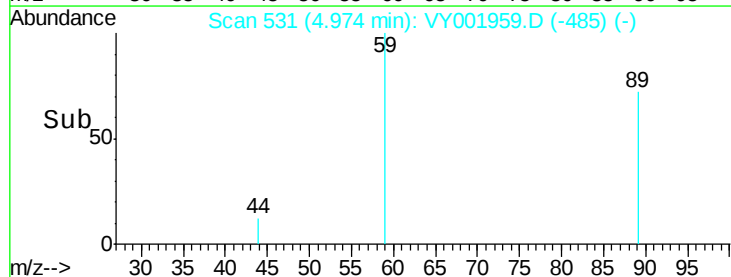
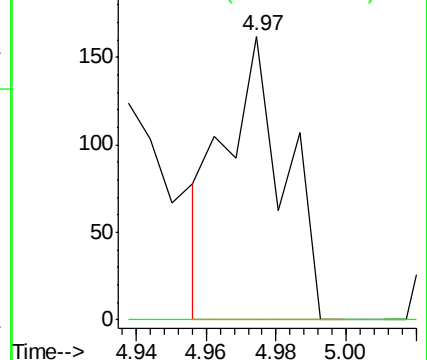
59 100

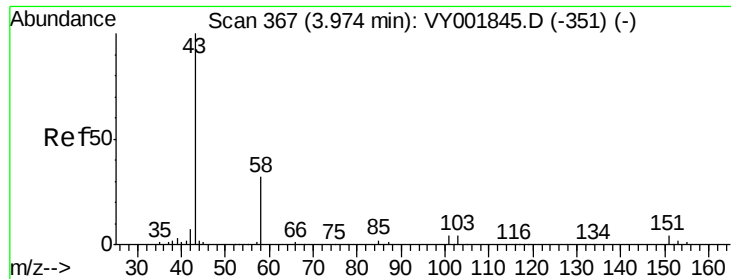
57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001845.D (-518) (-)

Ion 57.00 (56.70 to 57.70): VY001845.D (-518) (-)





#16

Acetone

Concen: 21.36 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.00 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Instrument :

MSVOA_Y

ClientSampleId :

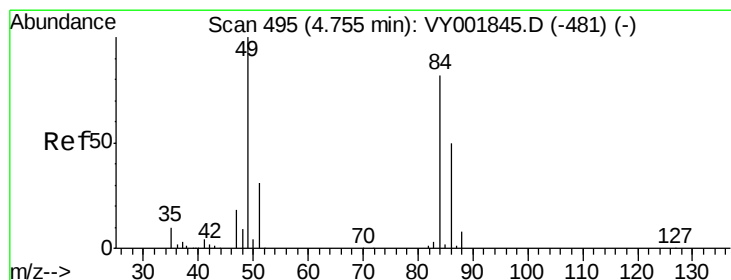
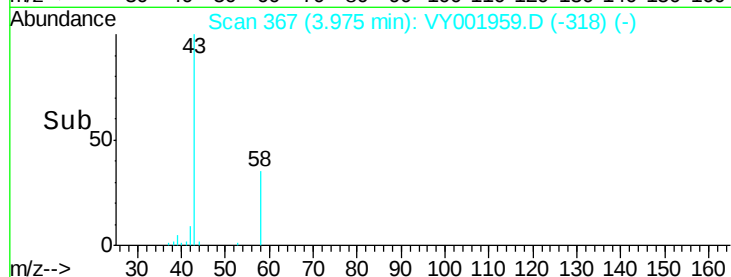
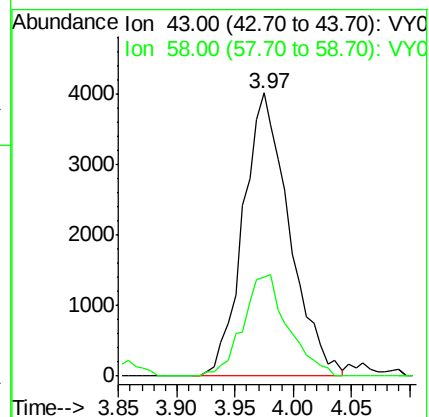
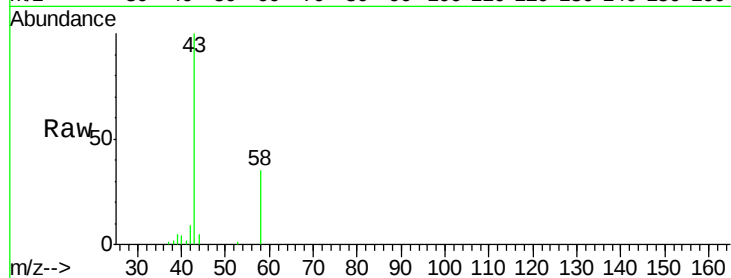
TR-04-031220

Tgt Ion: 43 Resp: 11076

Ion Ratio Lower Upper

43 100

58 34.9 25.9 38.9



#20

Methylene Chloride

Concen: 6.28 ug/l

RT: 4.74 min Scan# 493

Delta R.T. -0.01 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Tgt Ion: 84 Resp: 13951

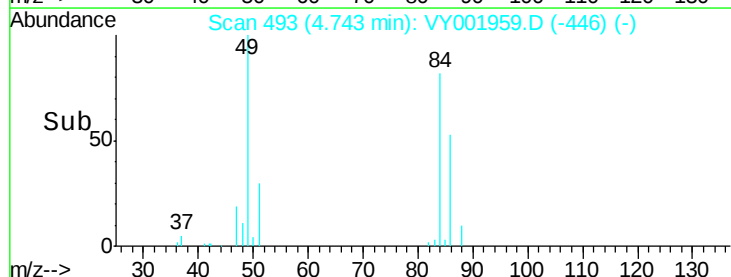
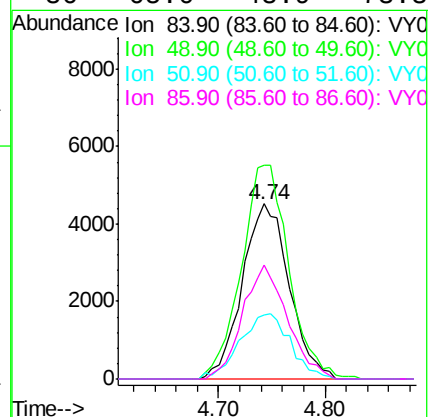
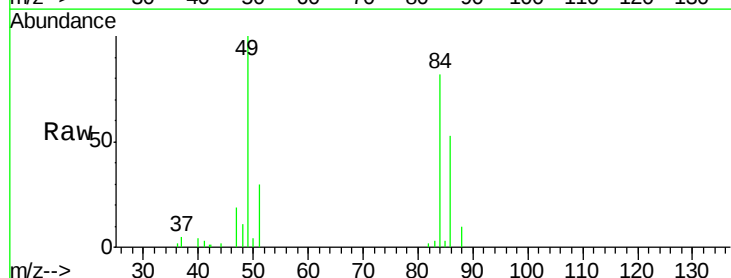
Ion Ratio Lower Upper

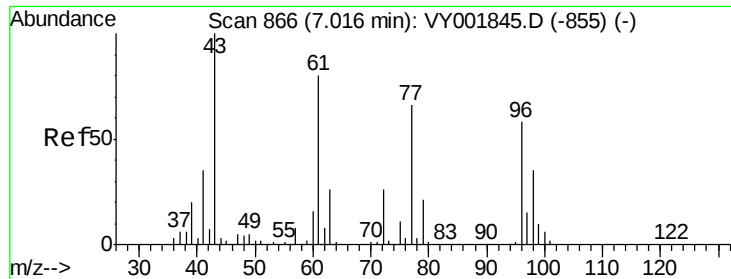
84 100

49 122.0 98.2 147.2

51 36.6 30.2 45.2

86 65.0 48.9 73.3

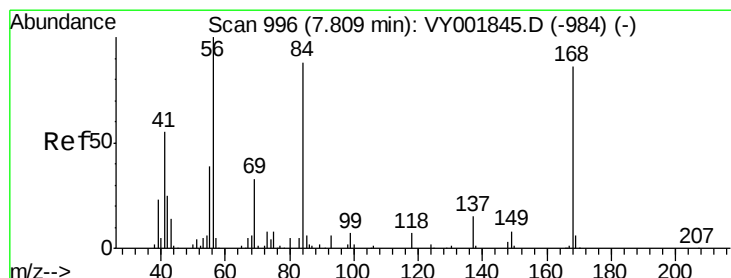
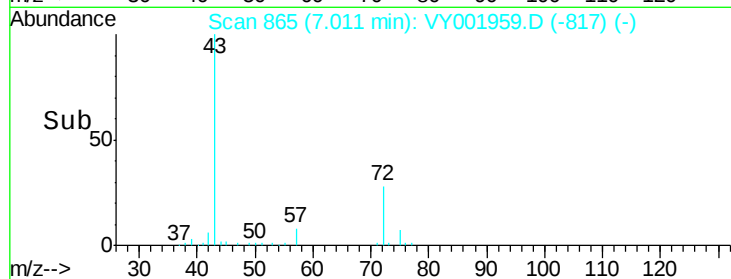
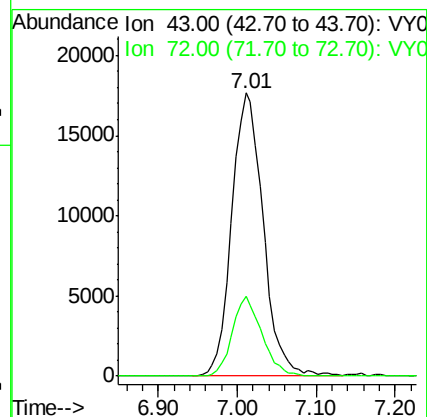
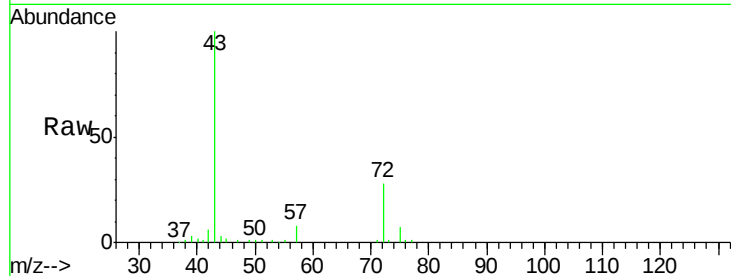




#25
2-Butanone
Concen: 62.27 ug/l
RT: 7.01 min Scan# 865
Delta R.T. -0.01 min
Lab File: VY001959.D
Acq: 12 Mar 2020 17:11

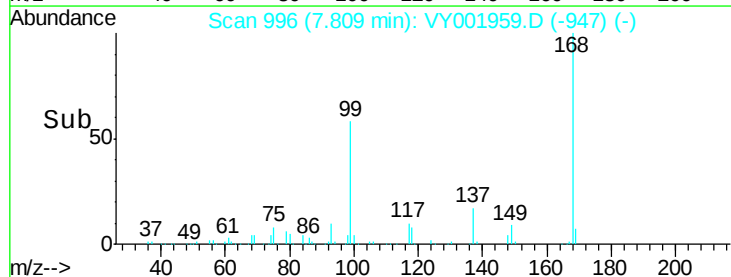
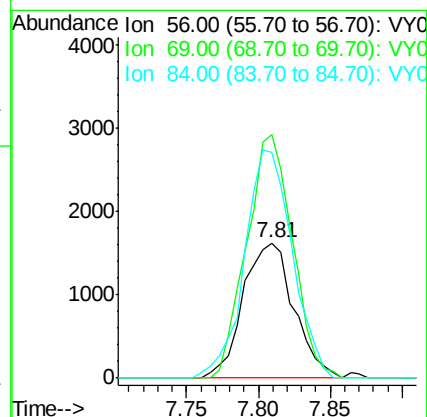
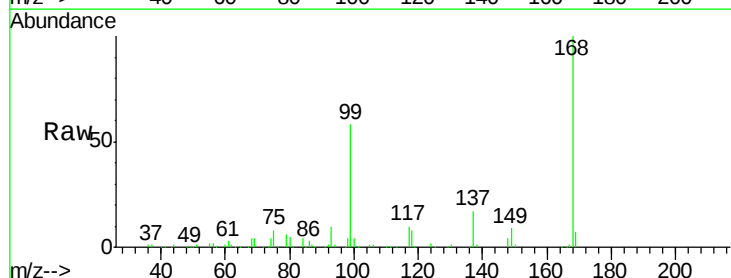
Instrument :
MSVOA_Y
ClientSampleId :
TR-04-031220

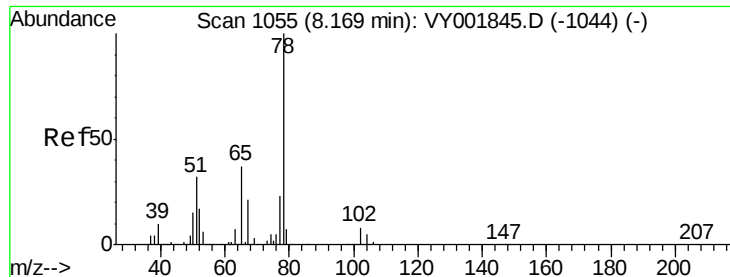
Tgt Ion: 43 Resp: 49091
Ion Ratio Lower Upper
43 100
72 28.0 20.9 31.3



#31
Cyclohexane
Concen: 1.01 ug/l
RT: 7.81 min Scan# 996
Delta R.T. 0.00 min
Lab File: VY001959.D
Acq: 12 Mar 2020 17:11

Tgt Ion: 56 Resp: 3967
Ion Ratio Lower Upper
56 100
69 180.6 26.7 40.1#
84 167.7 70.4 105.6#

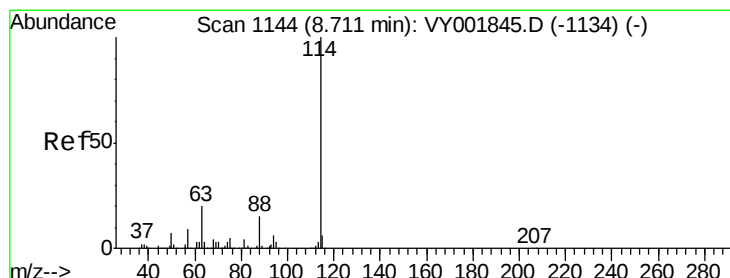
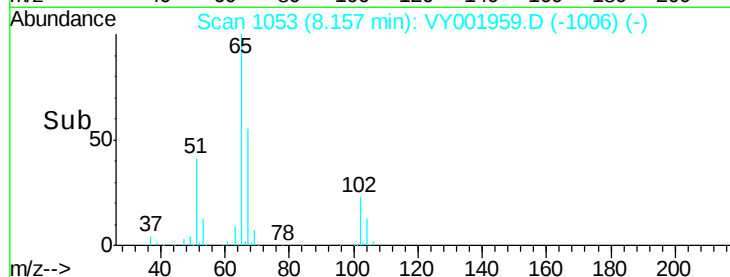
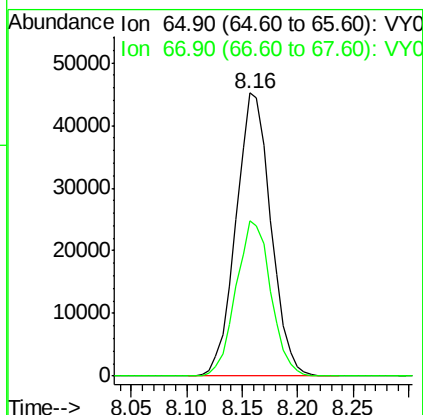
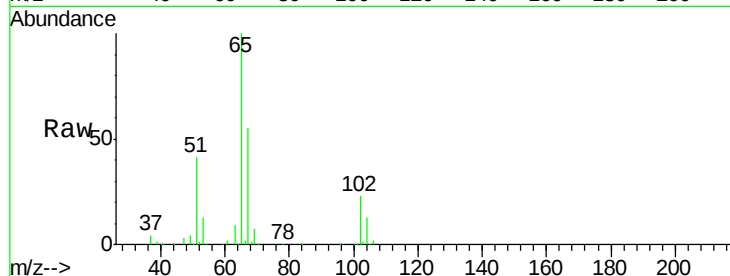




#33
 1,2-Dichloroethane-d4
 Concen: 55.18 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VY001959.D
 Acq: 12 Mar 2020 17:11

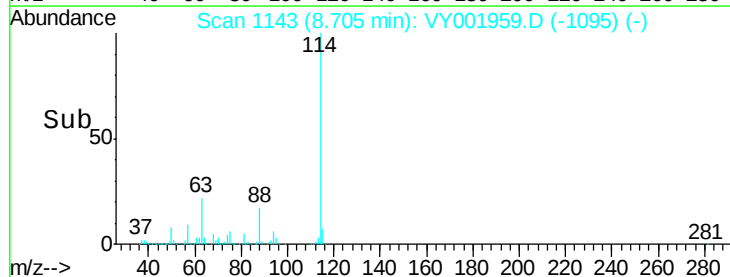
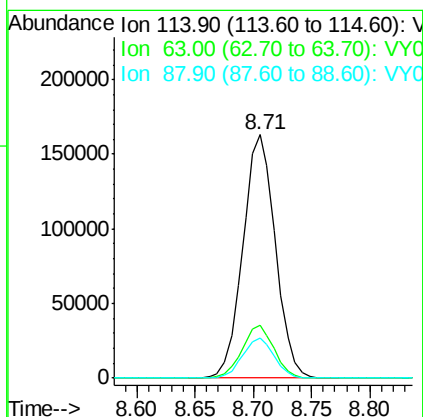
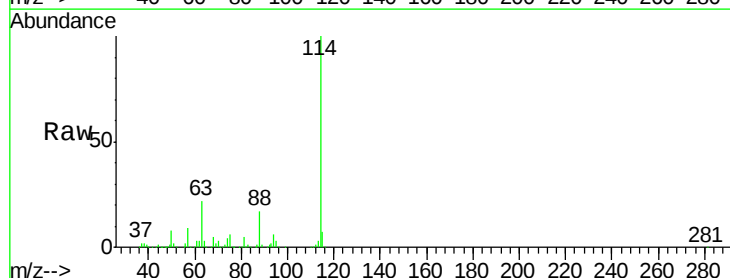
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-04-031220

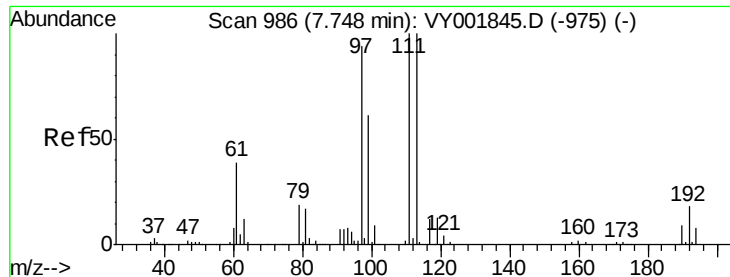
Tgt Ion: 65 Resp: 98224
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 110.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.71 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: VY001959.D
 Acq: 12 Mar 2020 17:11

Tgt Ion: 114 Resp: 316365
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 39.4
 88 16.7 0.0 30.4





#35

Dibromofluoromethane

Concen: 53.98 ug/l

RT: 7.74 min Scan# 984

Delta R.T. -0.01 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Instrument :

MSVOA_Y

ClientSampled :

TR-04-031220

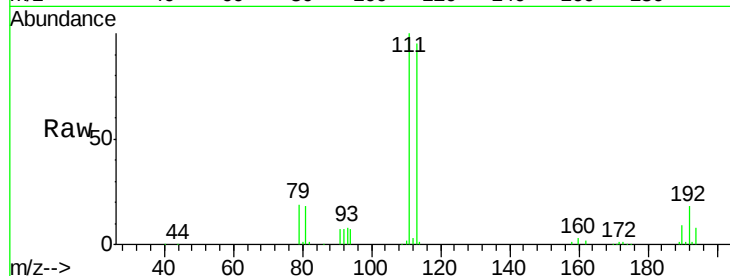
Tgt Ion:113 Resp: 93246

Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.8

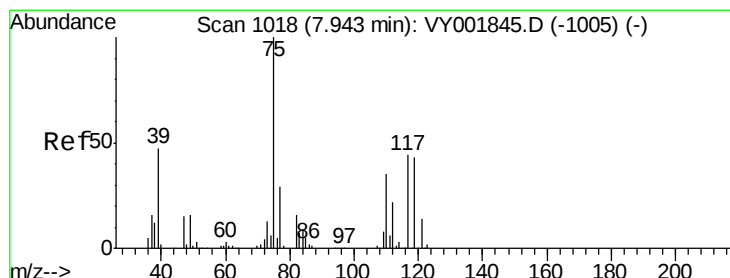
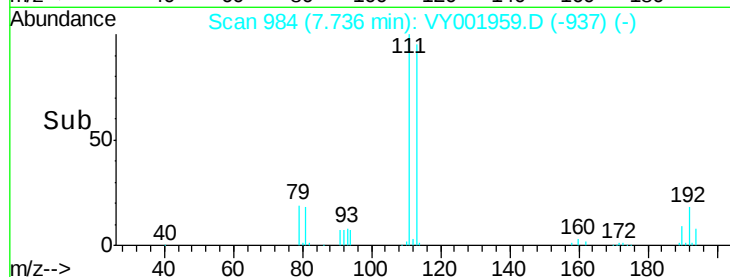
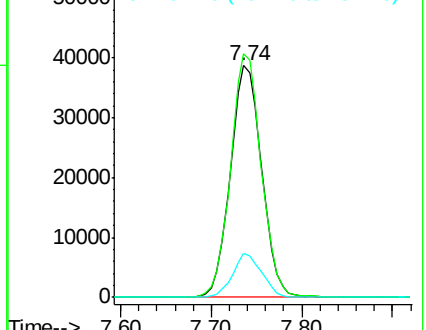
192 17.6 14.2 21.2



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



#36

1,1-Dichloropropene

Concen: 4.55 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.14 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

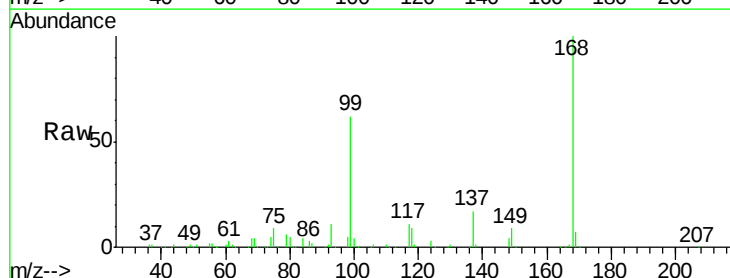
Tgt Ion: 75 Resp: 13854

Ion Ratio Lower Upper

75 100

110 7.9 17.4 52.2#

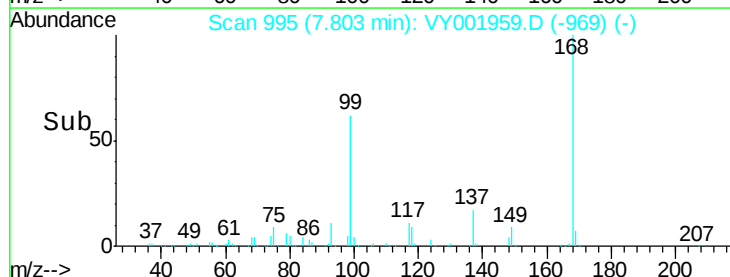
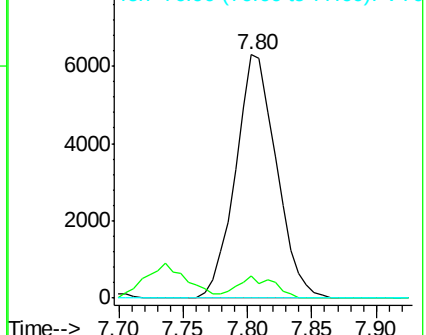
77 0.0 24.2 36.2#

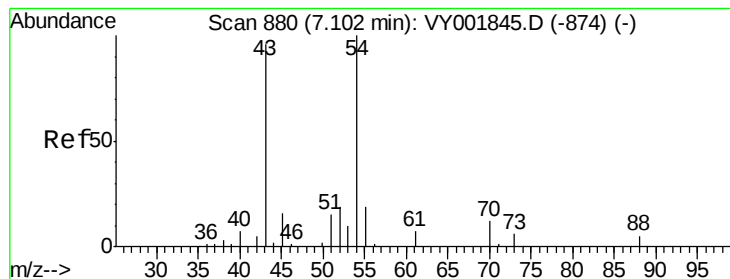


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0





#37

Ethyl Acetate

Concen: 27.74 ug/l

RT: 7.01 min Scan# 865

Delta R.T. -0.09 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Instrument :

MSVOA_Y

ClientSampleId :

TR-04-031220

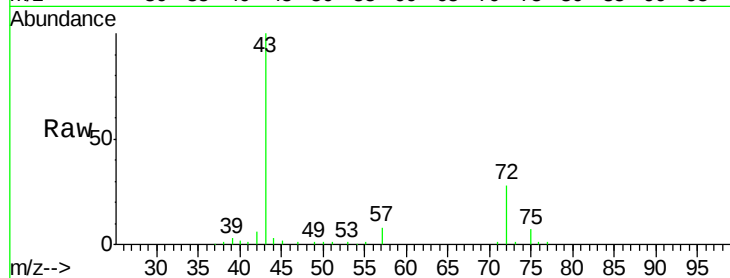
Tgt Ion: 43 Resp: 49091

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

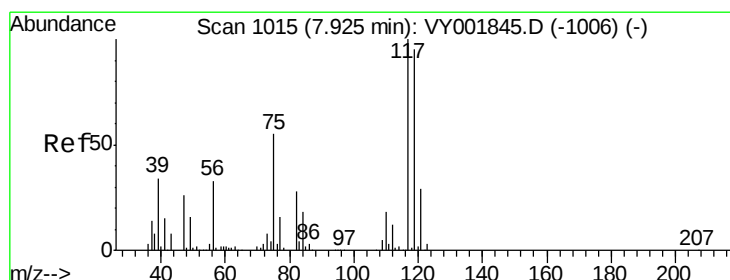
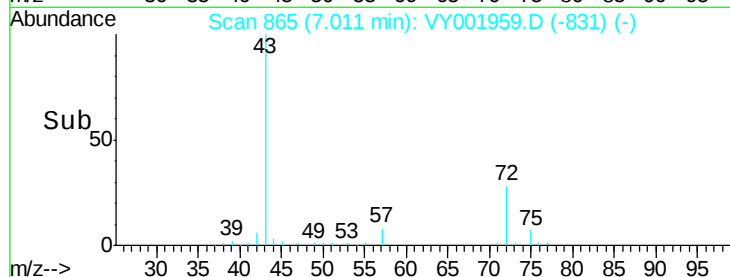
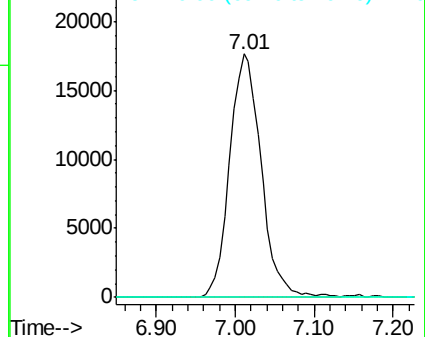
70 0.0 8.2 12.4#



Abundance Ion 43.00 (42.70 to 43.70): VY001845.D (-874) (-)

Ion 60.90 (60.60 to 61.60): VY001845.D (-874) (-)

Ion 70.00 (69.70 to 70.70): VY001845.D (-874) (-)



#38

Carbon Tetrachloride

Concen: 6.59 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.12 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

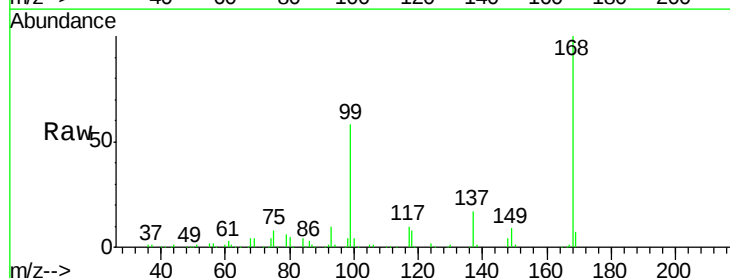
Tgt Ion: 117 Resp: 17133

Ion Ratio Lower Upper

117 100

119 4.8 76.3 114.5#

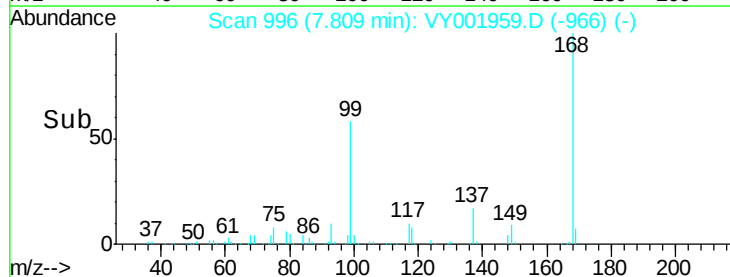
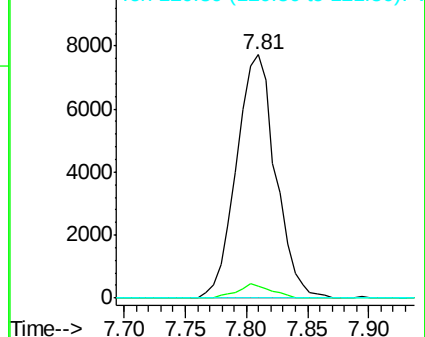
121 0.0 23.5 35.3#

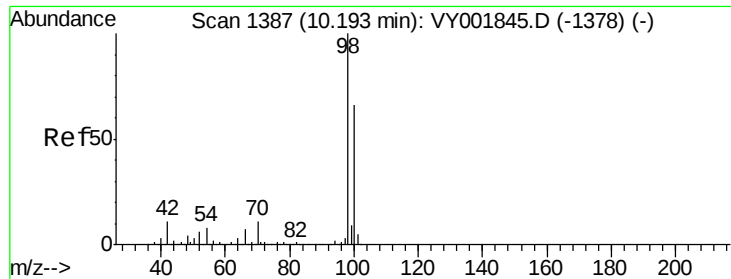


Abundance Ion 116.80 (116.50 to 117.50): VY001845.D (-1006) (-)

Ion 118.80 (118.50 to 119.50): VY001845.D (-1006) (-)

Ion 120.80 (120.50 to 121.50): VY001845.D (-1006) (-)





#50

Toluene-d8

Concen: 51.58 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Instrument :

MSVOA_Y

ClientSampleId :

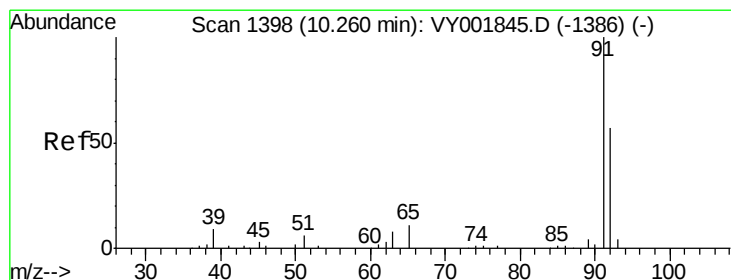
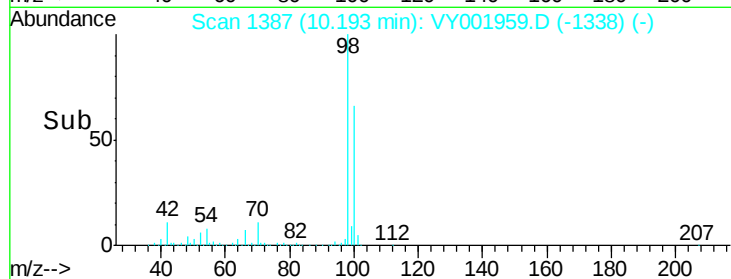
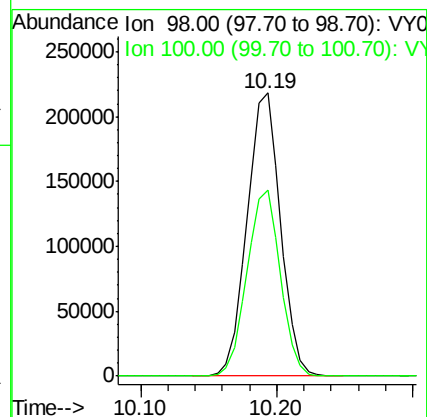
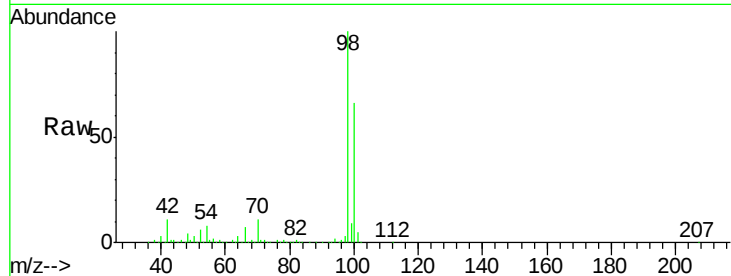
TR-04-031220

Tgt Ion: 98 Resp: 375716

Ion Ratio Lower Upper

98 100

100 65.5 53.0 79.4



#52

Toluene

Concen: 181.71 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.01 min

Lab File: VY001959.D

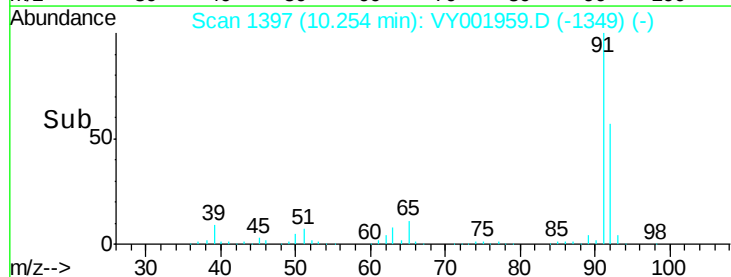
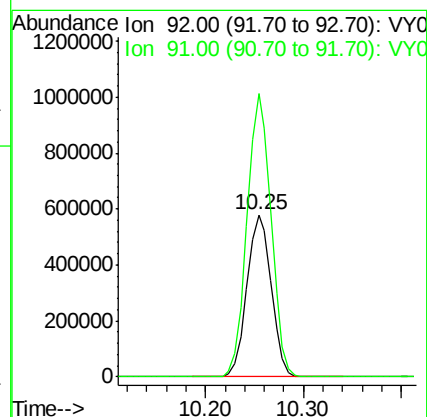
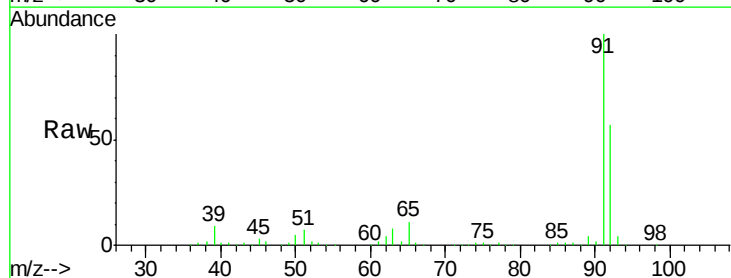
Acq: 12 Mar 2020 17:11

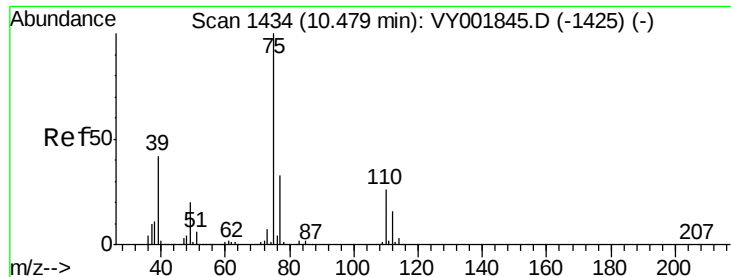
Tgt Ion: 92 Resp: 996078

Ion Ratio Lower Upper

92 100

91 172.4 138.6 208.0





#53

t-1,3-Dichloropropene

Concen: 3.77 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.23 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Instrument :

MSVOA_Y

ClientSampleId :

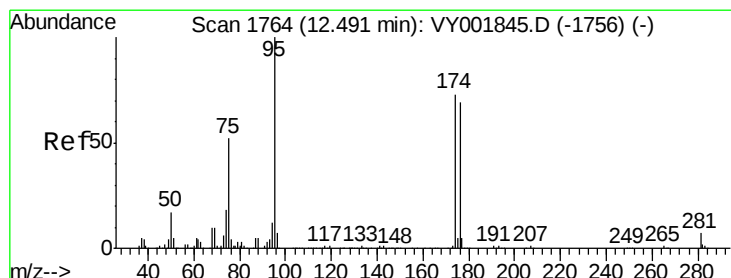
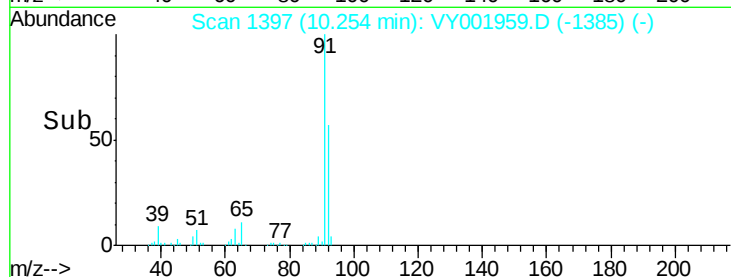
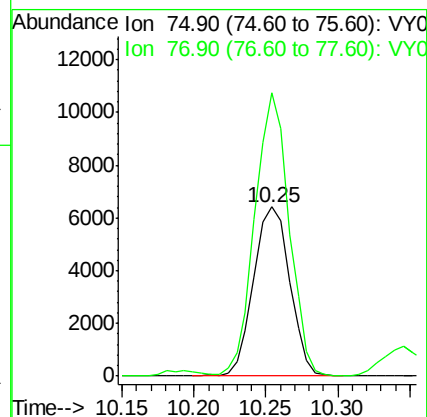
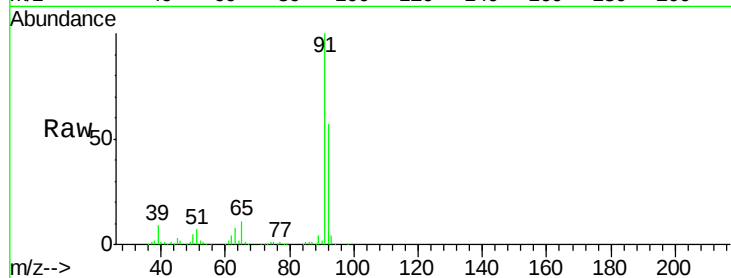
TR-04-031220

Tgt Ion: 75 Resp: 11178

Ion Ratio Lower Upper

75 100

77 167.3 26.3 39.5#



#62

4-Bromofluorobenzene

Concen: 45.27 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

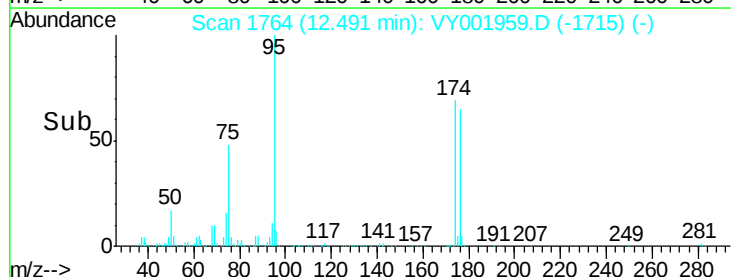
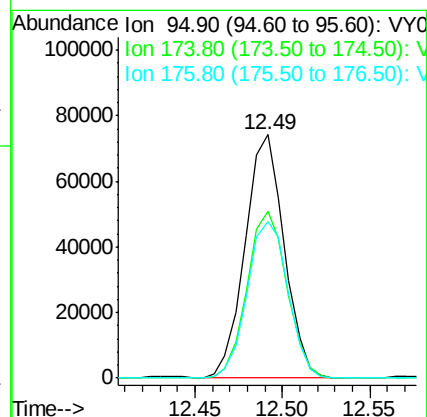
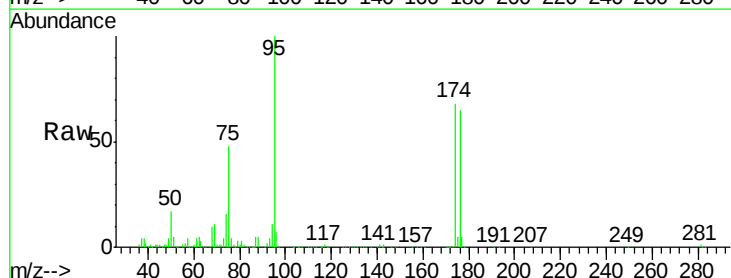
Tgt Ion: 95 Resp: 114656

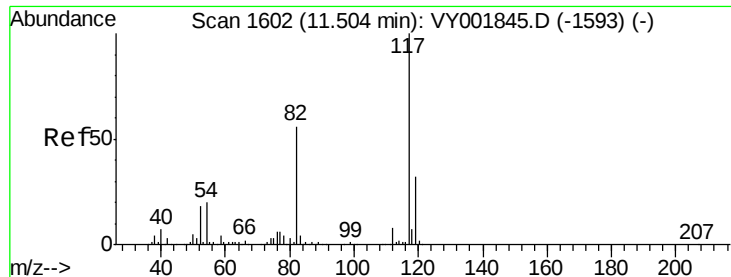
Ion Ratio Lower Upper

95 100

174 70.3 0.0 145.0

176 67.7 0.0 137.4

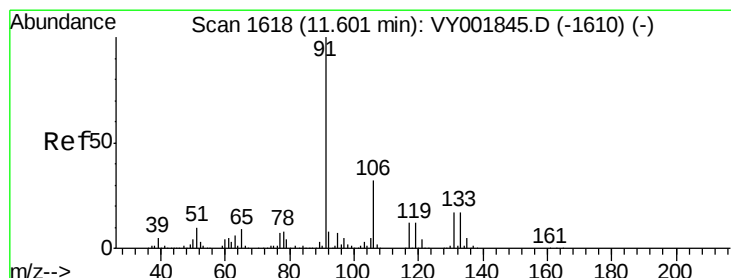
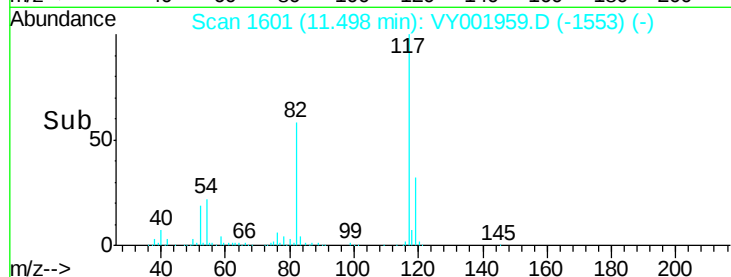
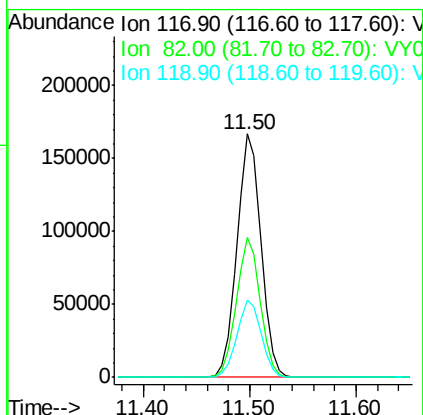
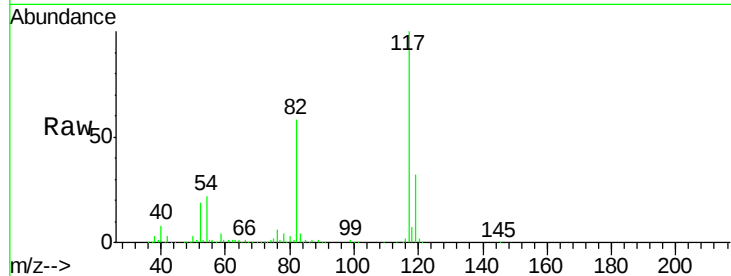




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: VY001959.D
Acq: 12 Mar 2020 17:11

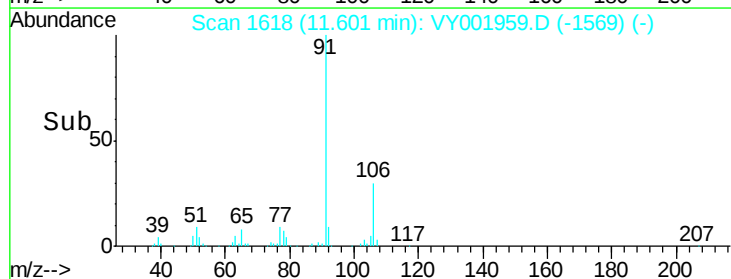
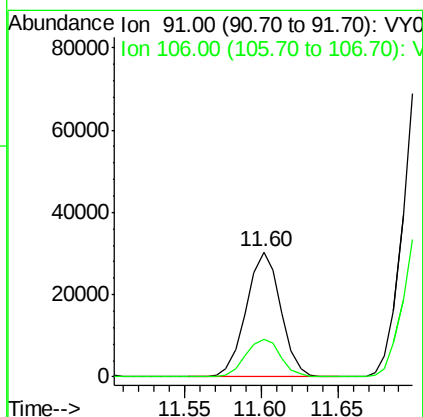
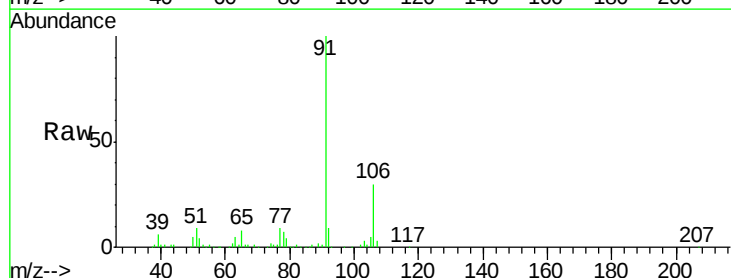
Instrument :
MSVOA_Y
ClientSampleId :
TR-04-031220

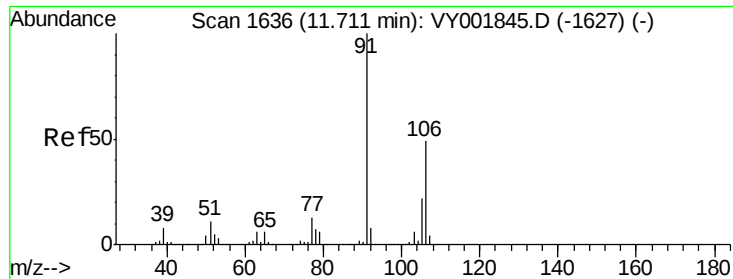
Tgt Ion: 117 Resp: 264406
Ion Ratio Lower Upper
117 100
82 57.5 44.5 66.7
119 31.6 25.7 38.5



#67
Ethyl Benzene
Concen: 4.85 ug/l
RT: 11.60 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VY001959.D
Acq: 12 Mar 2020 17:11

Tgt Ion: 91 Resp: 47637
Ion Ratio Lower Upper
91 100
106 30.1 25.4 38.2

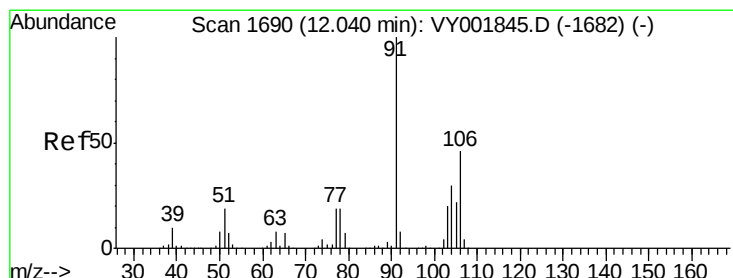
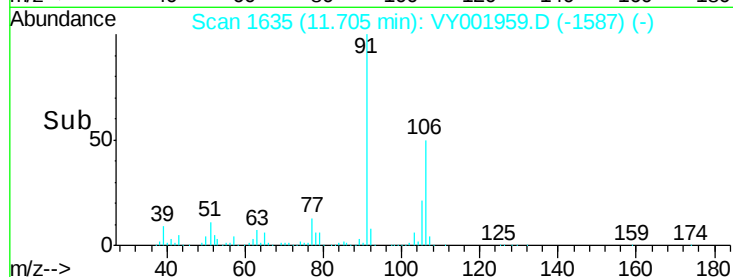
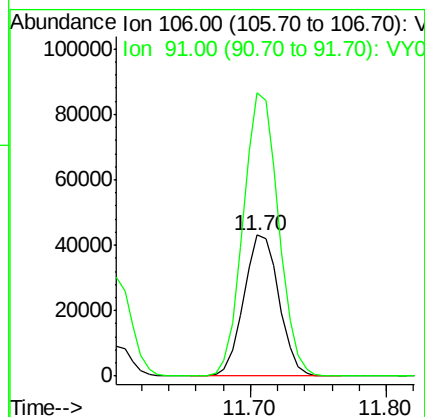
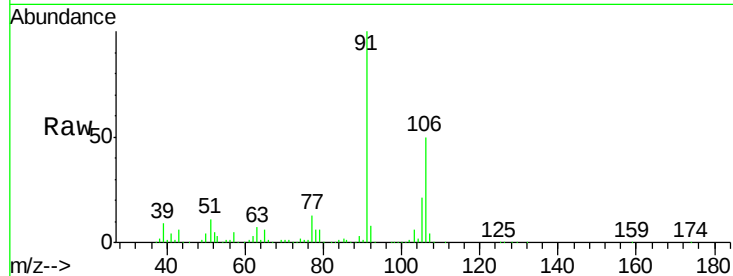




#68
m/p-Xylenes
Concen: 21.49 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY001959.D
Acq: 12 Mar 2020 17:11

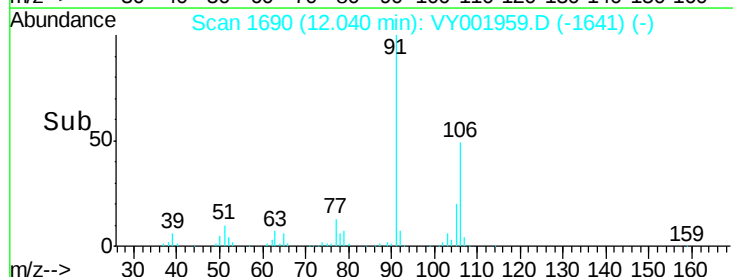
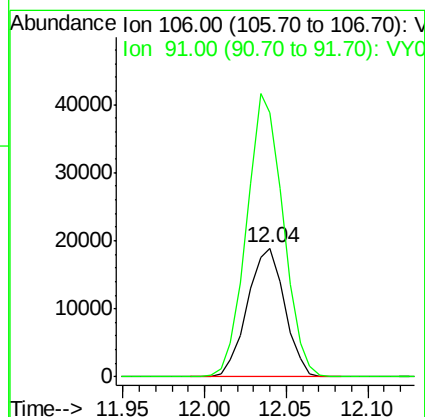
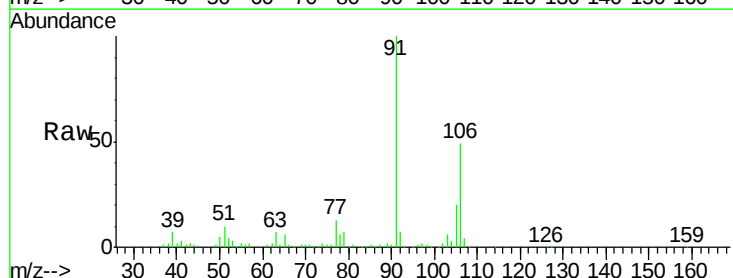
Instrument :
MSVOA_Y
ClientSampleId :
TR-04-031220

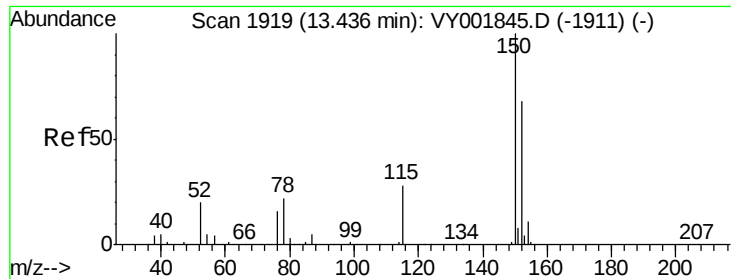
Tgt Ion:106 Resp: 78051
Ion Ratio Lower Upper
106 100
91 201.1 161.3 241.9



#69
o-Xylene
Concen: 8.83 ug/l
RT: 12.04 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VY001959.D
Acq: 12 Mar 2020 17:11

Tgt Ion:106 Resp: 30225
Ion Ratio Lower Upper
106 100
91 214.7 106.8 320.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Instrument :

MSVOA_Y

ClientSampleId :

TR-04-031220

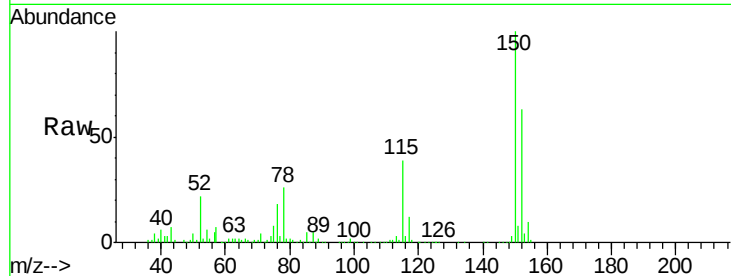
Tgt Ion:152 Resp: 91399

Ion Ratio Lower Upper

152 100

115 63.4 29.9 89.7

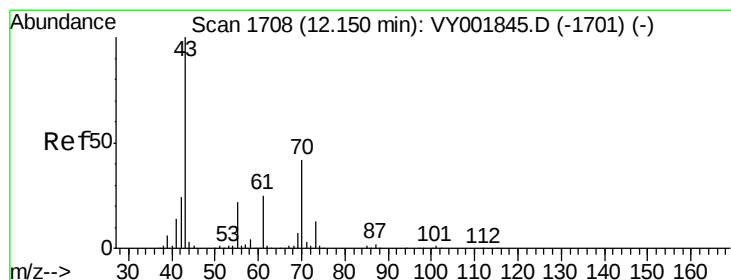
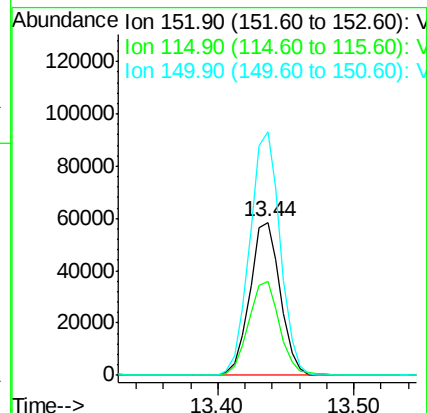
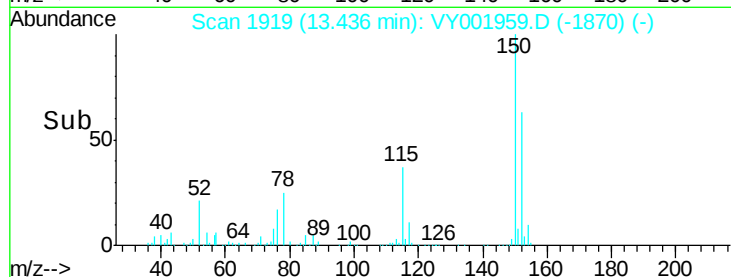
150 159.1 0.0 340.6



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



#74

N-ethyl acetate

Concen: 2.73 ug/l

RT: 12.13 min Scan# 1704

Delta R.T. -0.02 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Tgt Ion: 43 Resp: 5847

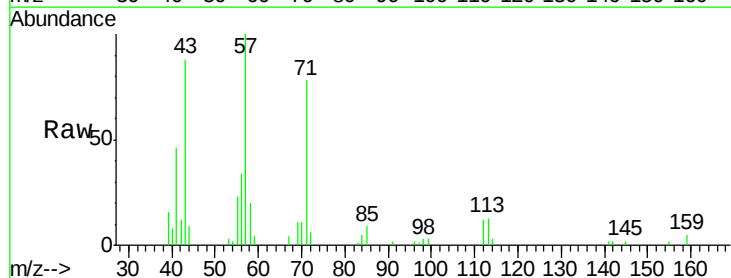
Ion Ratio Lower Upper

43 100

70 12.2 34.7 52.1#

55 8.5 18.2 27.4#

61 0.0 20.1 30.1#

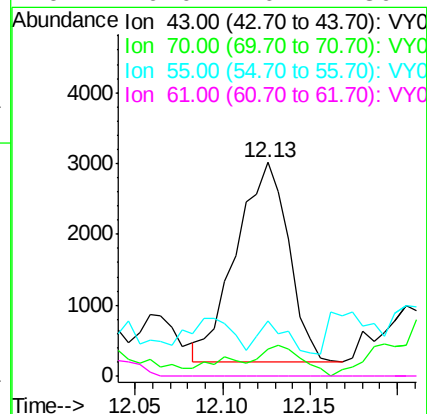
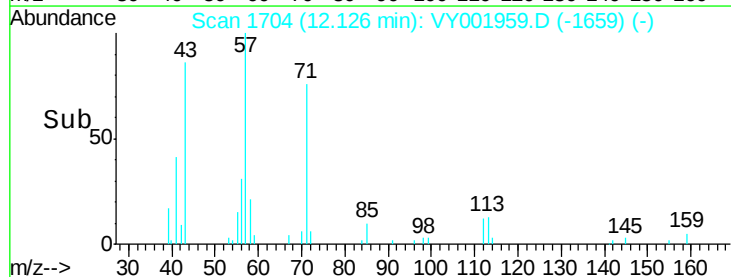


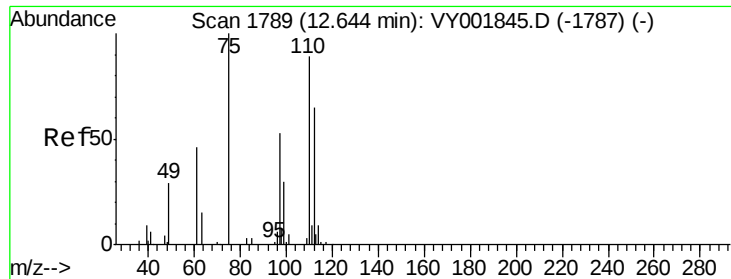
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#76

1,2,3-Trichloropropane

Concen: 51.65 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Instrument :

MSVOA_Y

ClientSampleId :

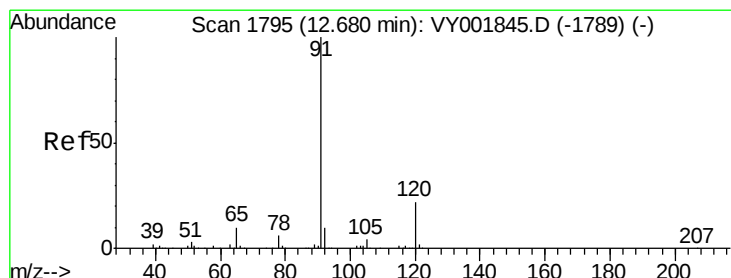
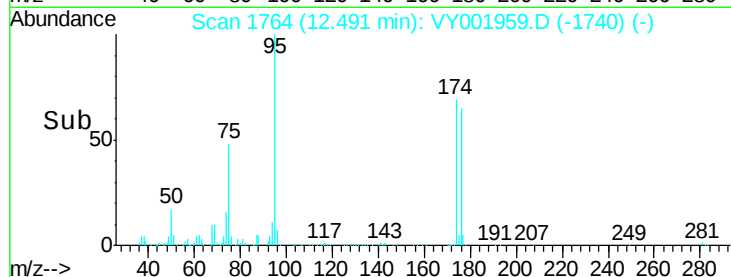
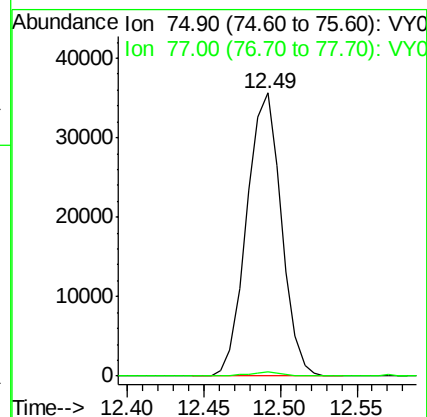
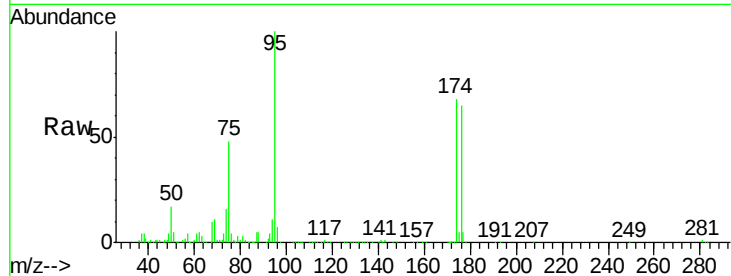
TR-04-031220

Tgt Ion: 75 Resp: 56010

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#78

n-propylbenzene

Concen: 1.72 ug/l

RT: 12.68 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VY001959.D

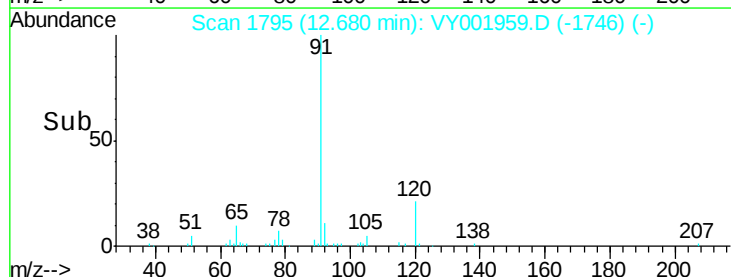
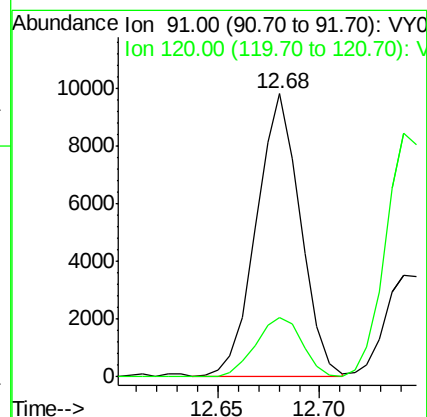
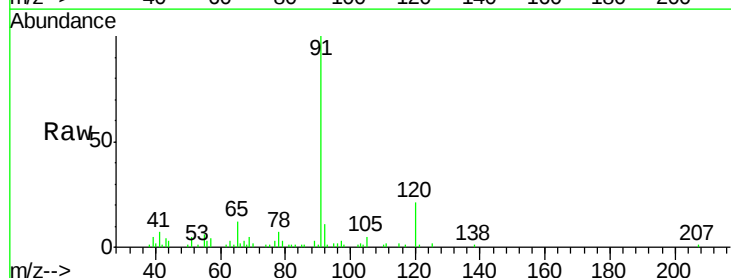
Acq: 12 Mar 2020 17:11

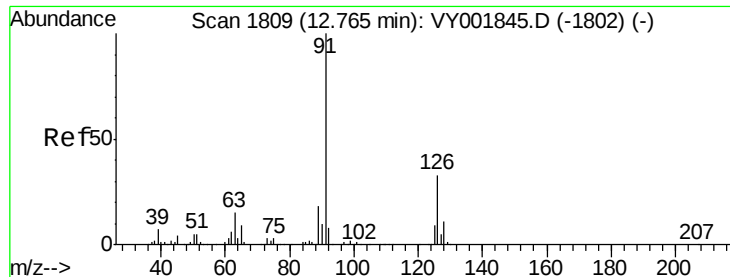
Tgt Ion: 91 Resp: 14800

Ion Ratio Lower Upper

91 100

120 22.0 11.0 33.0

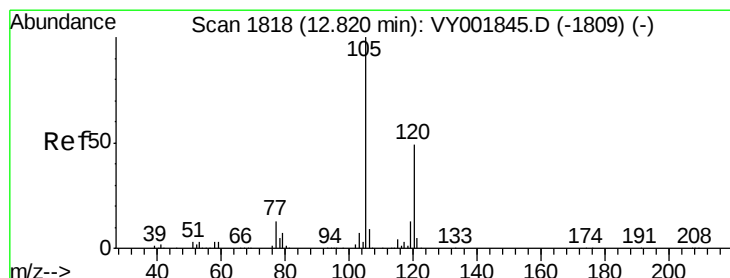
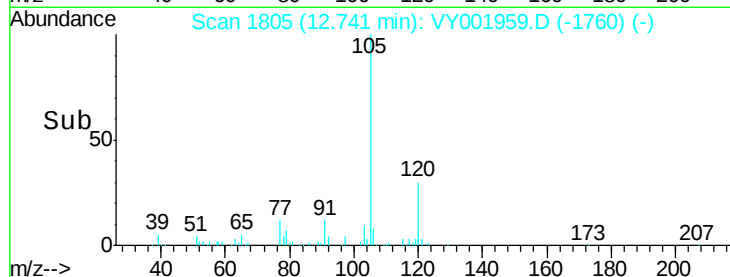
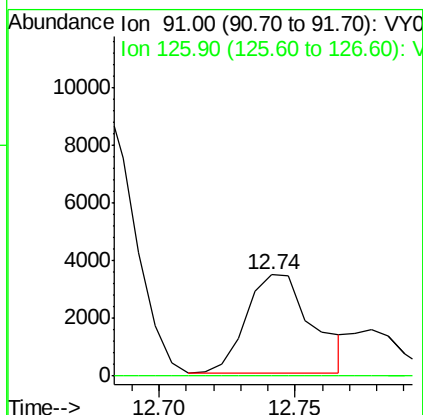
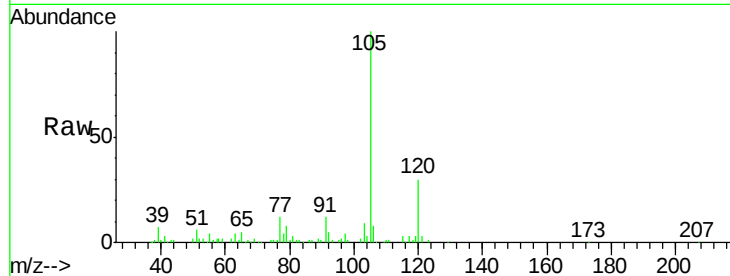




#79
 2-Chlorotoluene
 Concen: 1.21 ug/l
 RT: 12.74 min Scan# 1805
 Delta R.T. -0.02 min
 Lab File: VY001959.D
 Acq: 12 Mar 2020 17:11

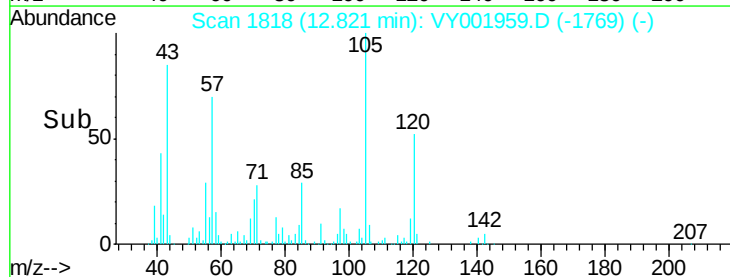
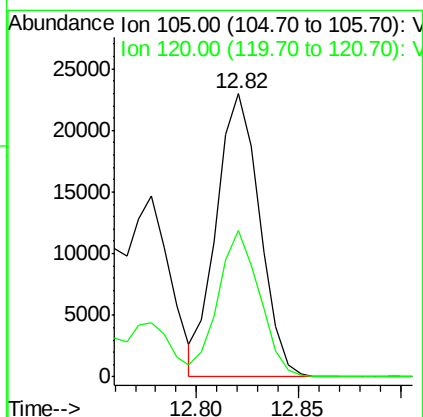
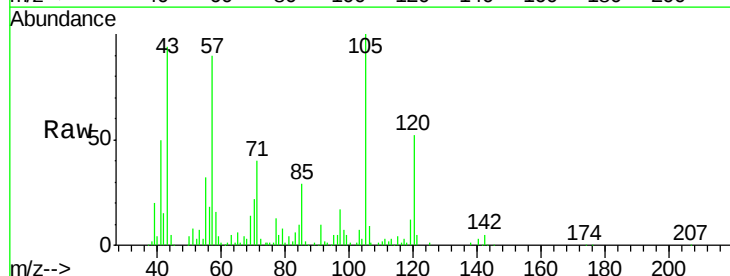
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-04-031220

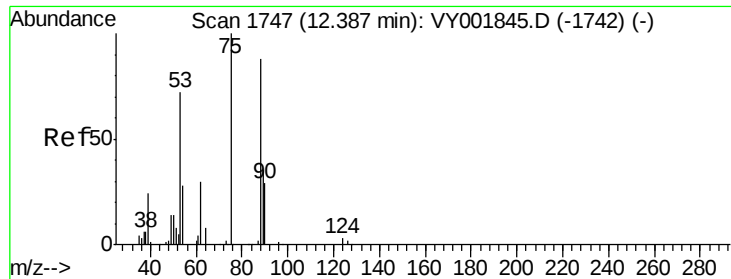
Tgt Ion: 91 Resp: 5751
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.3 48.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 5.89 ug/l
 RT: 12.82 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: VY001959.D
 Acq: 12 Mar 2020 17:11

Tgt Ion: 105 Resp: 33809
 Ion Ratio Lower Upper
 105 100
 120 49.5 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 104.32 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Instrument :

MSVOA_Y

ClientSampleId :

TR-04-031220

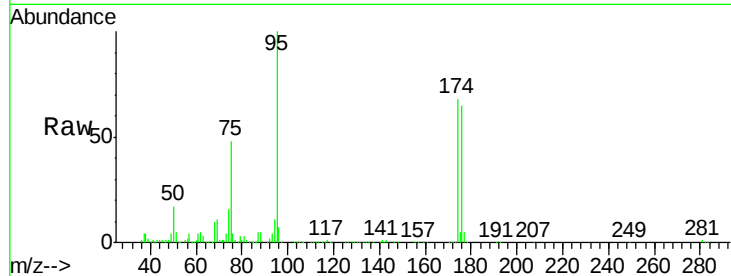
Tgt Ion: 75 Resp: 56010

Ion Ratio Lower Upper

75 100

53 0.3 65.4 98.0#

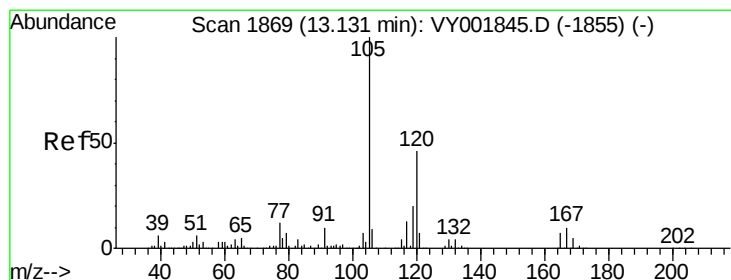
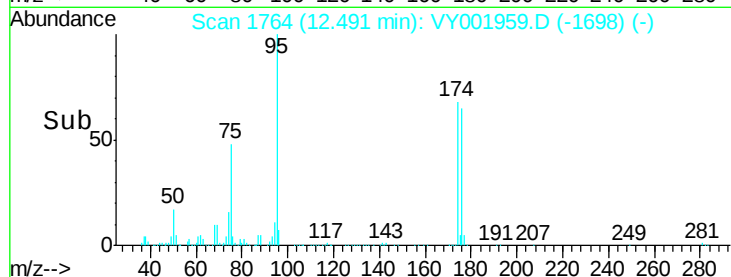
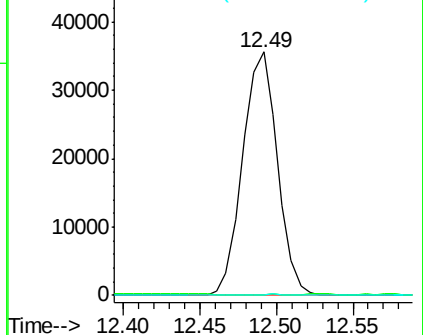
89 0.1 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0



#84

1,2,4-Trimethylbenzene

Concen: 15.07 ug/l

RT: 13.13 min Scan# 1868

Delta R.T. -0.01 min

Lab File: VY001959.D

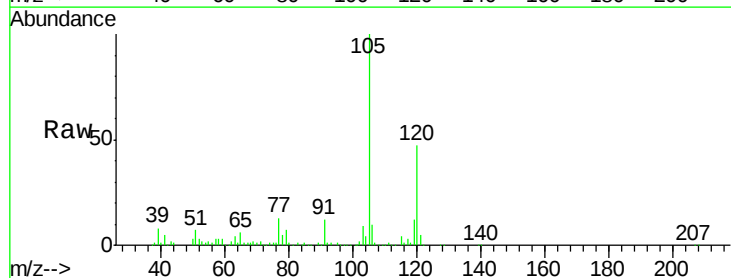
Acq: 12 Mar 2020 17:11

Tgt Ion: 105 Resp: 85888

Ion Ratio Lower Upper

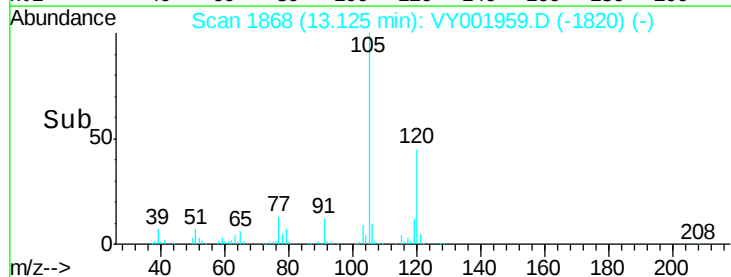
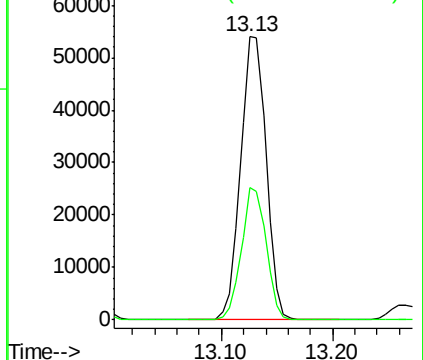
105 100

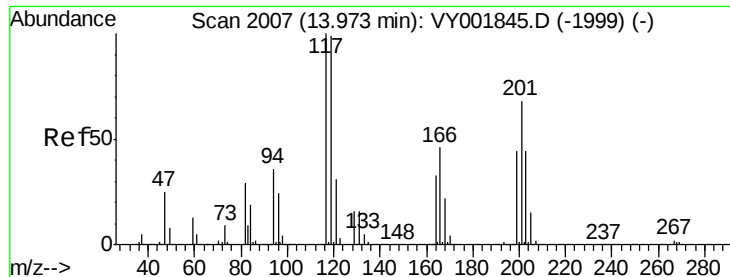
120 45.4 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 1.47 ug/l

RT: 13.98 min Scan# 2008

Delta R.T. 0.01 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

Instrument :

MSVOA_Y

ClientSampleId :

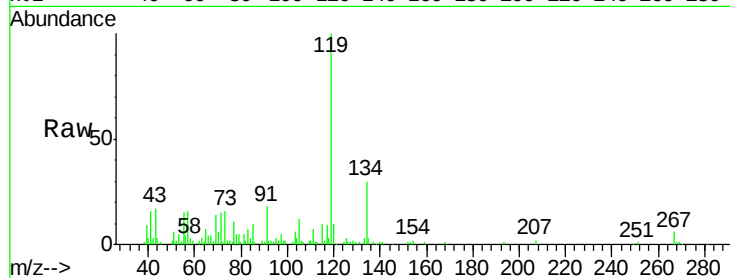
TR-04-031220

Tgt Ion:117 Resp: 1680

Ion Ratio Lower Upper

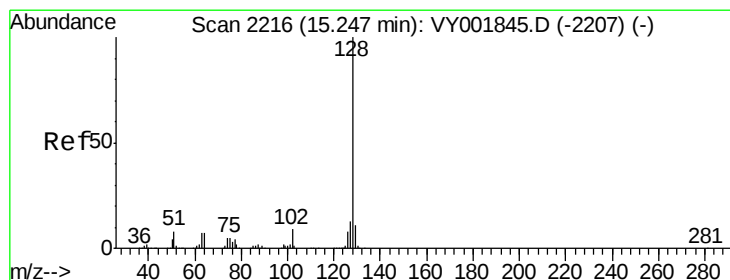
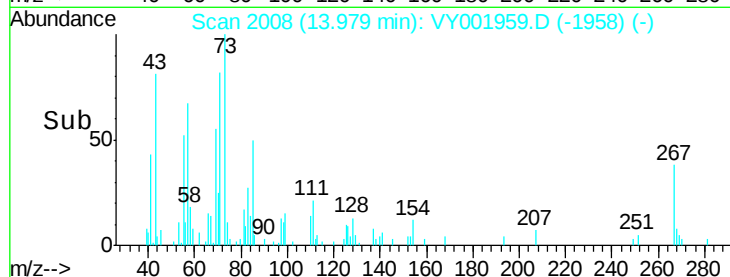
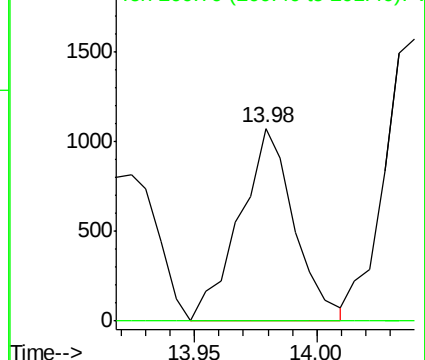
117 100

201 0.0 32.5 97.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 3.48 ug/l

RT: 15.25 min Scan# 2216

Delta R.T. 0.00 min

Lab File: VY001959.D

Acq: 12 Mar 2020 17:11

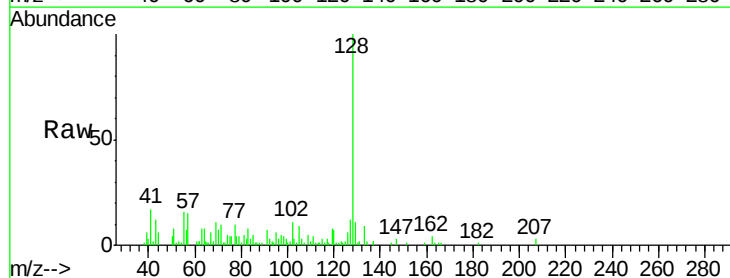
Tgt Ion:128 Resp: 14078

Ion Ratio Lower Upper

128 100

127 17.1 10.1 15.1#

129 14.7 8.6 13.0#



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

