

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120919\
 Data File : VY000912.D
 Acq On : 09 Dec 2019 13:37
 Operator : SY/MD
 Sample : K6111-01
 Misc : 6.94G/5ML/MSVOA Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Dec 10 06:24:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y112719S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 27 12:40:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	266216	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	489109	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	431801	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	175949	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	157783	55.78	ug/l	0.00
Spiked Amount			Recovery	=	111.56%	
35) Dibromofluoromethane	7.73	113	141654	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
50) Toluene-d8	10.17	98	577226	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
62) 4-Bromofluorobenzene	12.47	95	191858	44.83	ug/l	0.00
Spiked Amount			Recovery	=	89.66%	

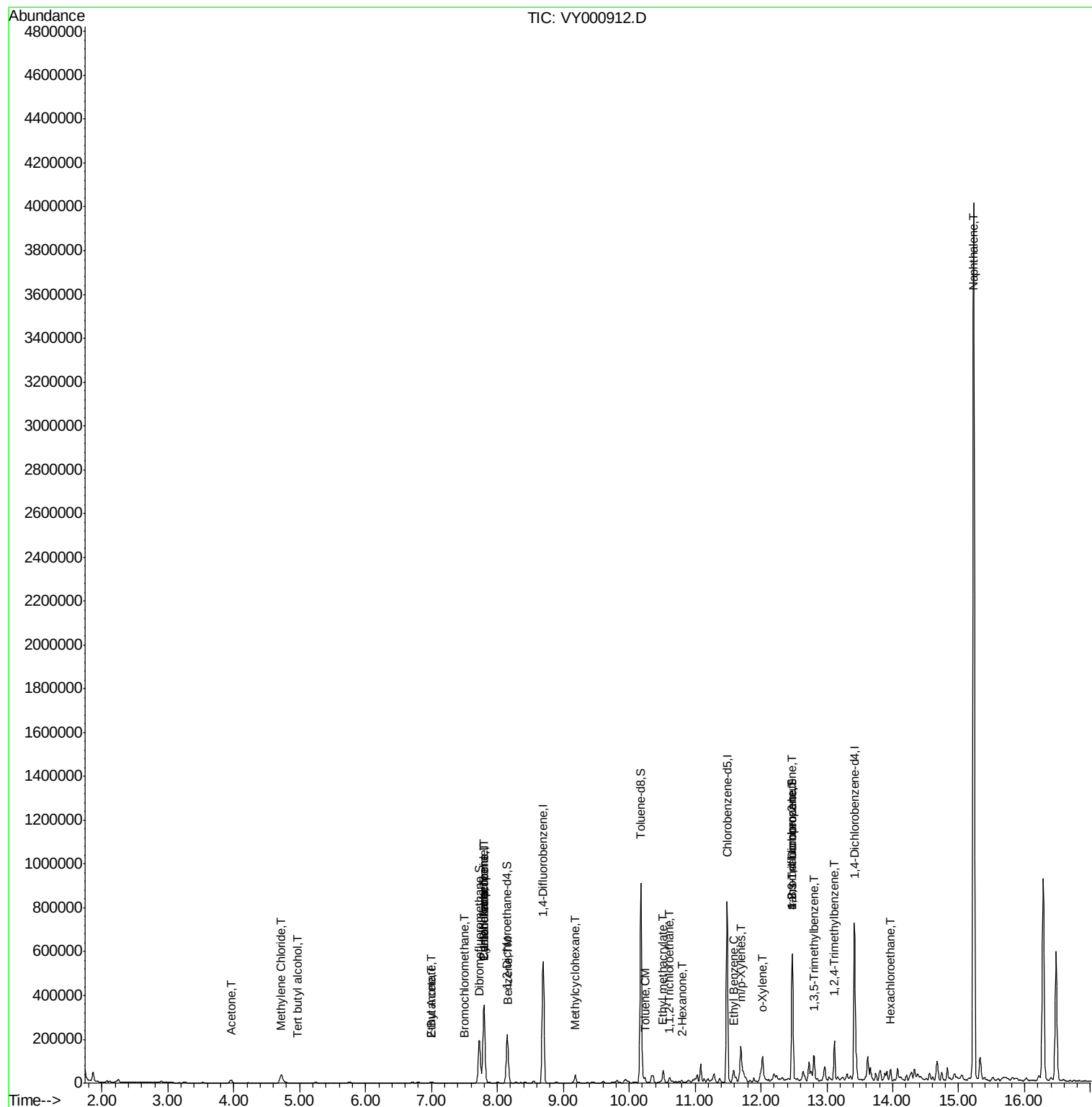
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.65	94	106	Below Cal	#	16
11) Tert butyl alcohol	4.97	59	556	1.954	ug/l #	74
16) Acetone	3.96	43	22734	35.034	ug/l #	84
20) Methylene Chloride	4.72	84	27447	8.024	ug/l	96
25) 2-Butanone	7.00	43	6138	5.120	ug/l #	78
28) Bromochloromethane	7.49	49	60	2.043	ug/l #	15
31) Cyclohexane	7.80	56	11656	1.941	ug/l #	36
36) 1,1-Dichloropropene	7.79	75	22624	4.652	ug/l #	49
37) Ethyl Acetate	7.00	43	6138	2.186	ug/l #	69
38) Carbon Tetrachloride	7.80	117	26242	6.059	ug/l #	13
39) Methylcyclohexane	9.18	83	15664	2.431	ug/l	92
40) Benzene	8.17	78	21906	1.546	ug/l	100
52) Toluene	10.24	92	9988	1.139	ug/l	100
55) 1,1,2-Trichloroethane	10.62	97	9289	3.382	ug/l #	21
56) Ethyl methacrylate	10.52	69	6138	1.562	ug/l #	1
59) 2-Hexanone	10.79	43	5269	2.645	ug/l #	22
67) Ethyl Benzene	11.59	91	30820	1.844	ug/l	96
68) m/p-Xylenes	11.69	106	45601	7.268	ug/l	99
69) o-Xylene	12.02	106	28025	4.790	ug/l	99
76) 1,2,3-Trichloropropane	12.47	75	94326	47.317	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.80	105	41684	3.594	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.47	75	94326	92.944	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.11	105	91564	7.890	ug/l	98
90) Hexachloroethane	13.97	117	2816	1.239	ug/l #	16
95) Naphthalene	15.23	128	3264527	387.741	ug/l	99

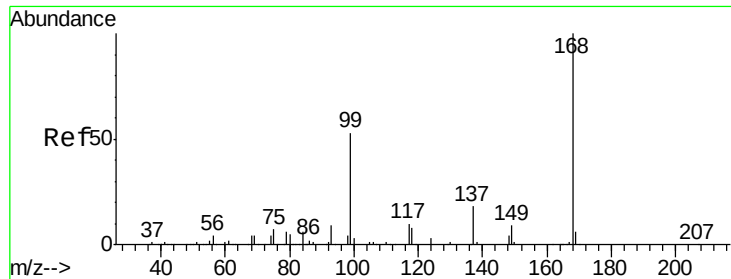
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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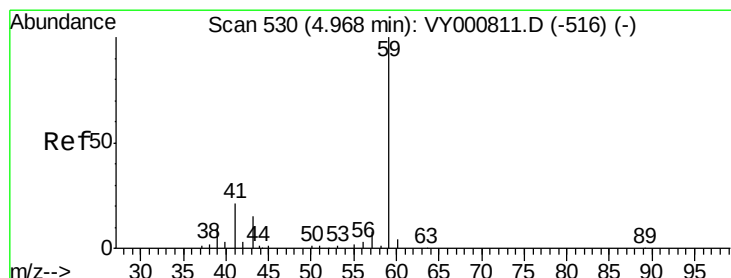
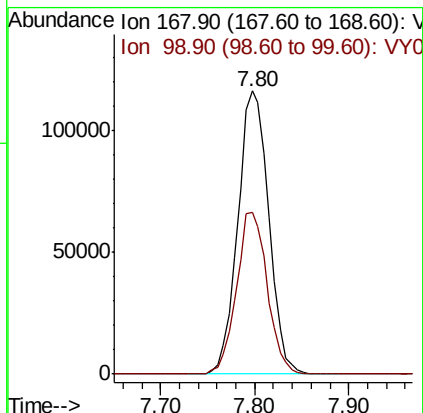
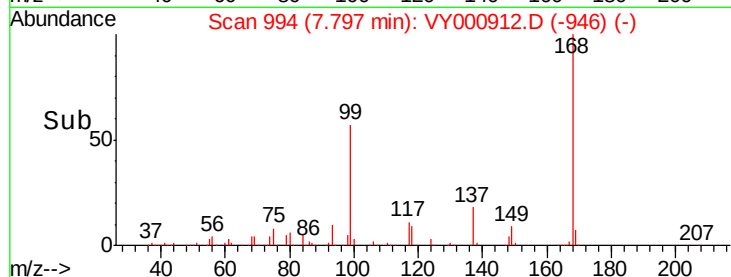
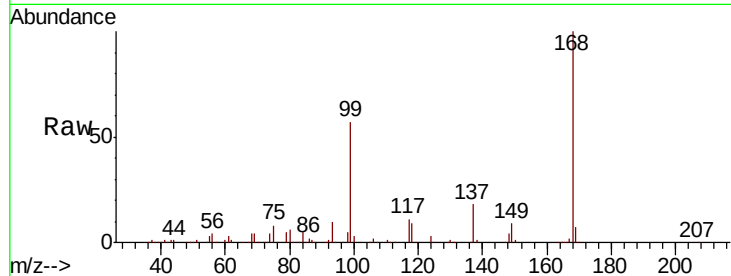


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.01 min
 Lab File: VY000912.D
 Acq: 09 Dec 2019 13:37

Instrument :
 MSVOA_Y
 ClientSampleId :

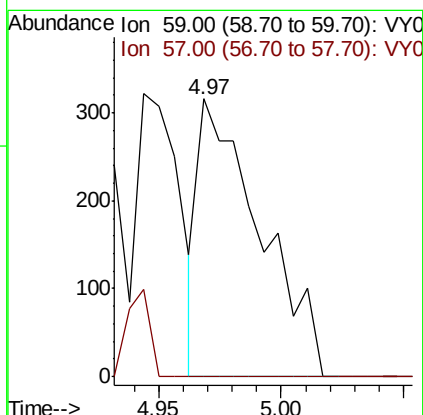
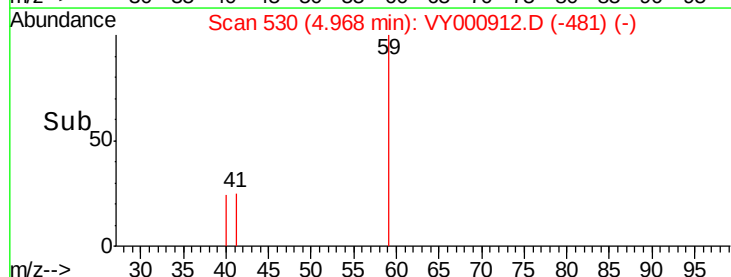
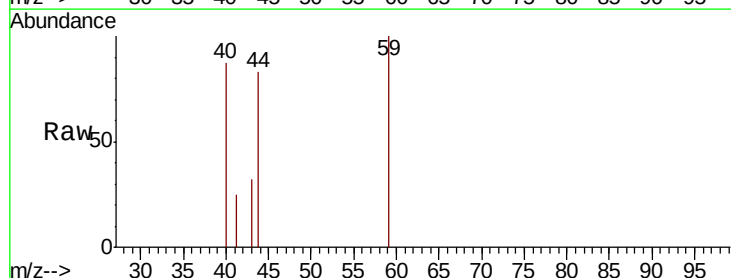
Tot Ion	Ratio	Lower	Upper
168	100		
99	57.3	45.0	67.6

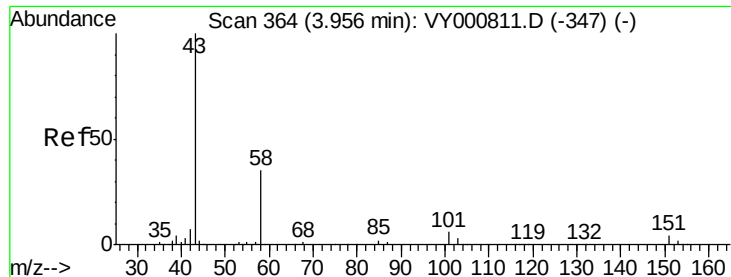


#11

Tert butyl alcohol
 Concen: 1.954 ug/l
 RT: 4.97 min Scan# 530
 Delta R.T. -0.00 min
 Lab File: VY000912.D
 Acq: 09 Dec 2019 13:37

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.8	11.6#





#16

Acetone

Concen: 35.034 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VY000912.D

Acq: 09 Dec 2019 13:37

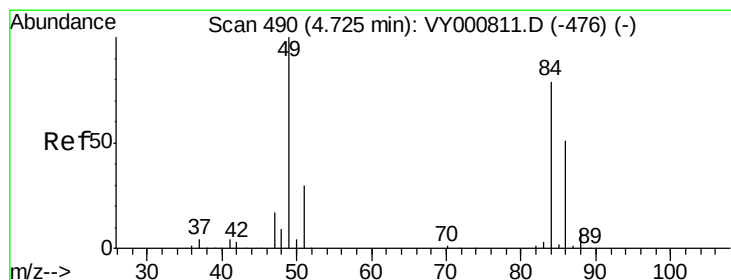
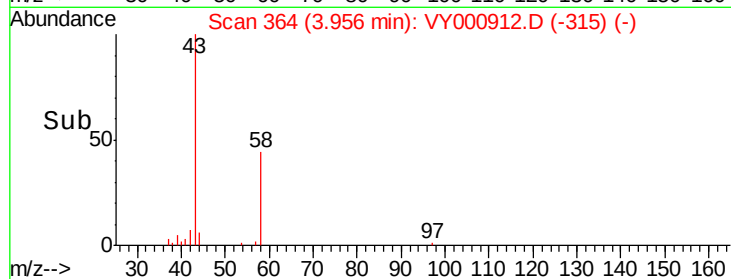
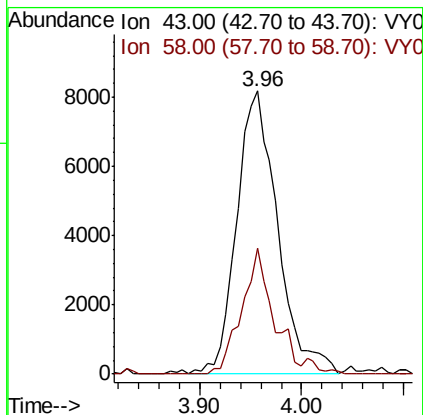
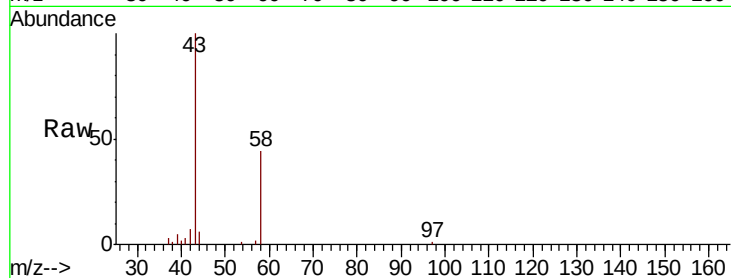
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 43 Resp: 22734

Ion Ratio Lower Upper

43 100

58 44.4 28.0 42.0#



#20

Methylene Chloride

Concen: 8.024 ug/l

RT: 4.72 min Scan# 489

Delta R.T. -0.01 min

Lab File: VY000912.D

Acq: 09 Dec 2019 13:37

Tgt Ion: 84 Resp: 27447

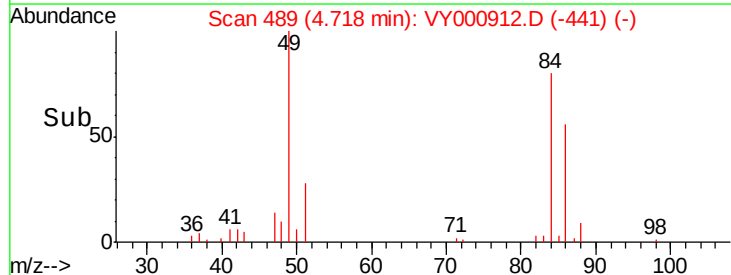
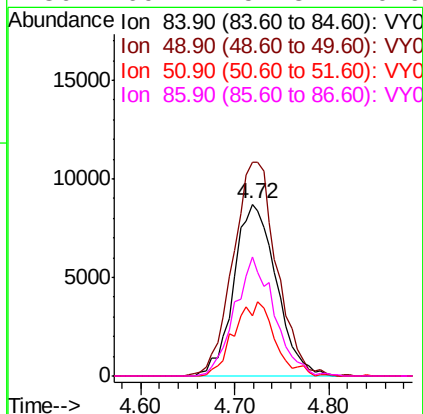
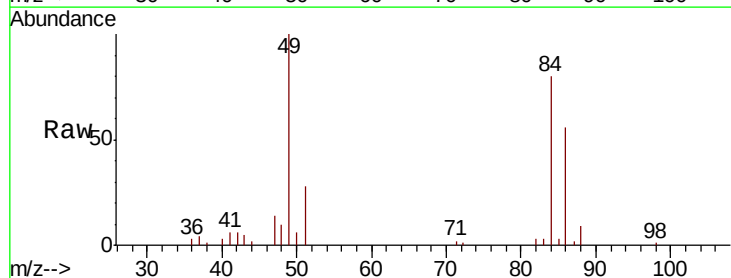
Ion Ratio Lower Upper

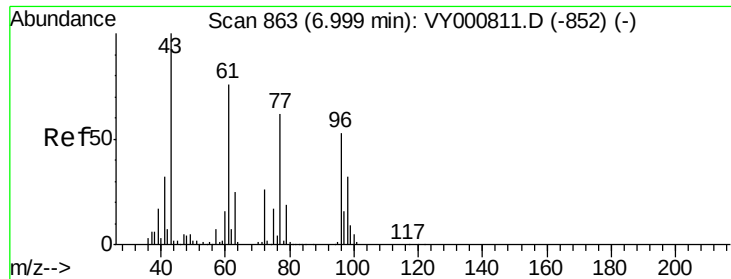
84 100

49 124.5 101.3 151.9

51 35.0 30.6 45.8

86 69.4 51.3 76.9

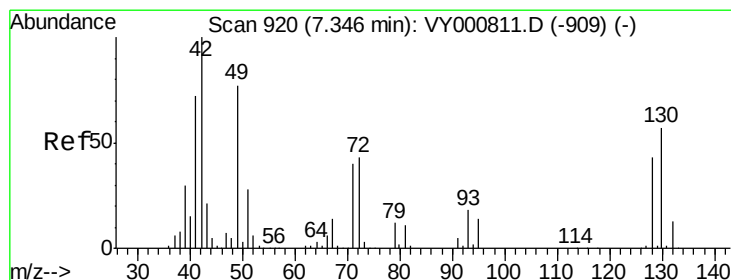
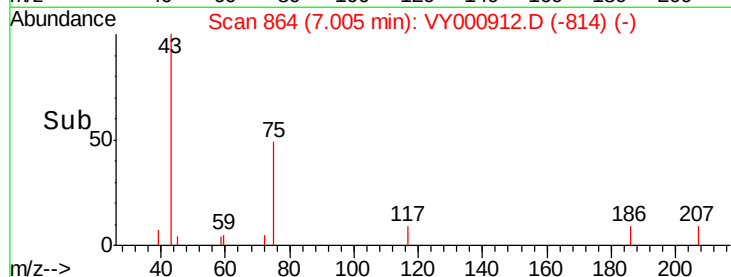
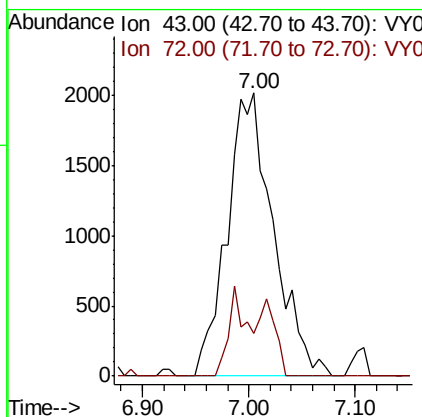
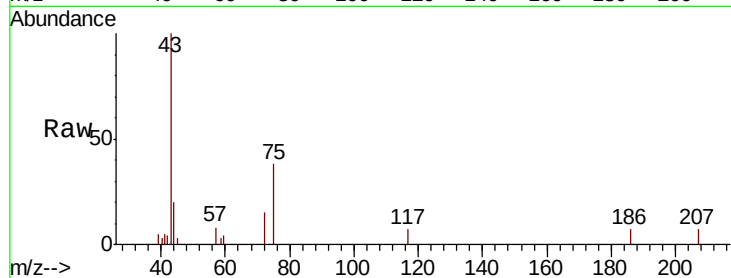




#25
2-Butanone
Concen: 5.120 ug/l
RT: 7.00 min Scan# 864
Delta R.T. 0.01 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

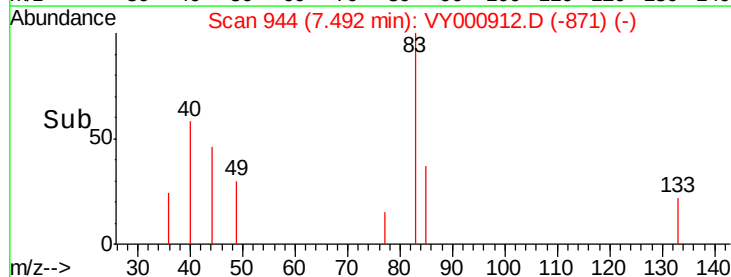
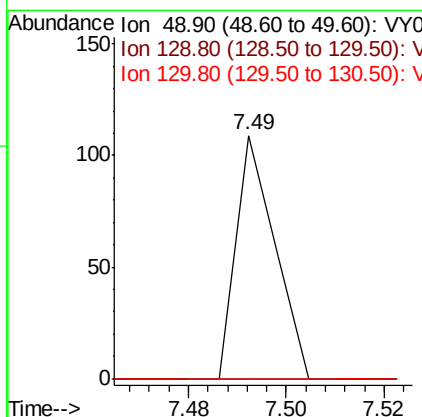
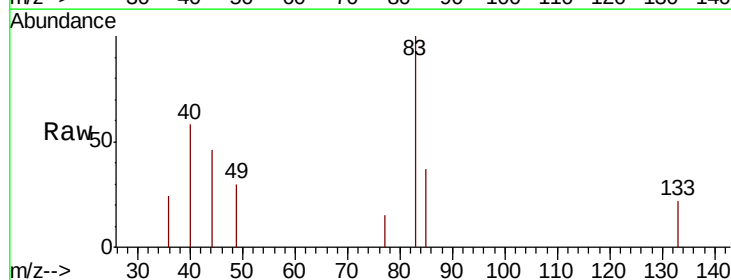
Instrument :
MSVOA_Y
ClientSampled :

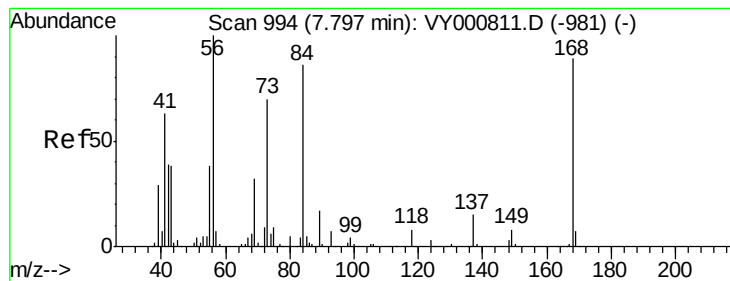
Tot Ion: 43 Resp: 6138
Ion Ratio Lower Upper
43 100
72 15.2 21.0 31.4#



#28
Bromochloromethane
Concen: 2.043 ug/l
RT: 7.49 min Scan# 944
Delta R.T. 0.15 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

Tgt Ion: 49 Resp: 60
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 58.7 88.1#





#31

Cyclohexane

Concen: 1.941 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY000912.D

Acq: 09 Dec 2019 13:37

Instrument :
MSVOA_Y
ClientSampled :

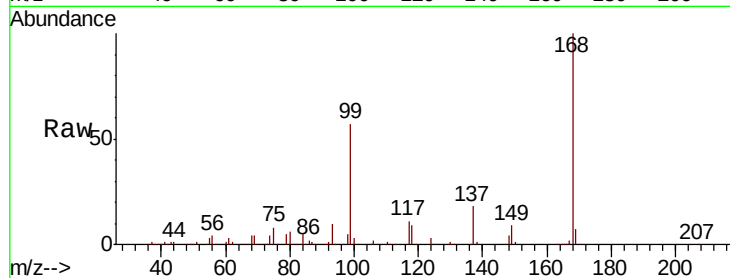
Tot Ion: 56 Resp: 11656

Ion Ratio Lower Upper

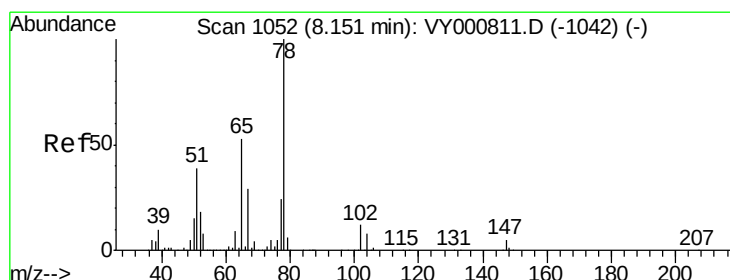
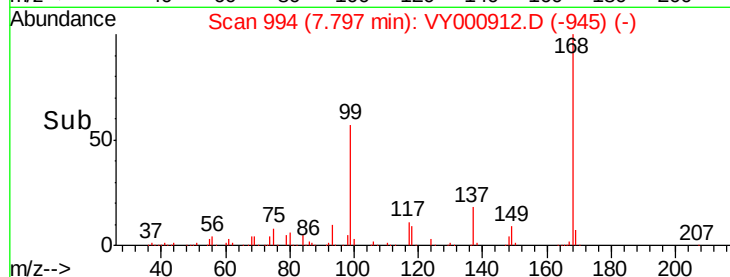
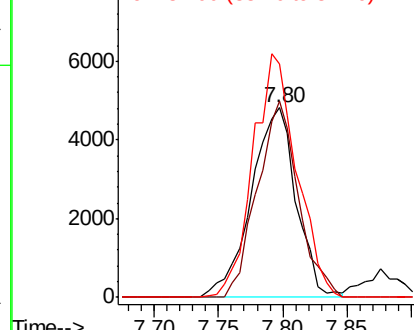
56 100

69 103.5 25.9 38.9#

84 123.1 68.6 102.8#



Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 55.778 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY000912.D

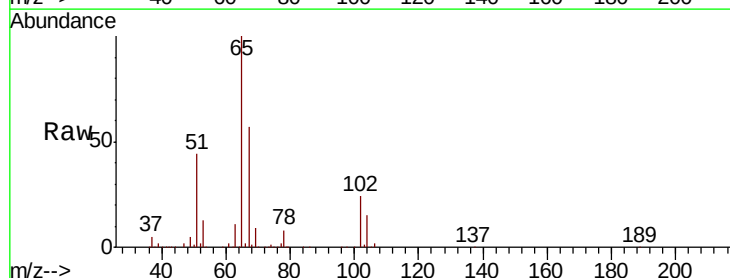
Acq: 09 Dec 2019 13:37

Tgt Ion: 65 Resp: 157783

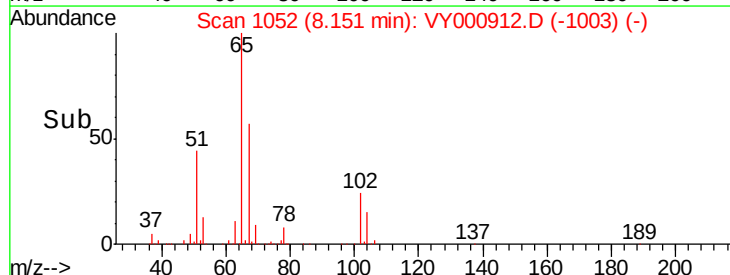
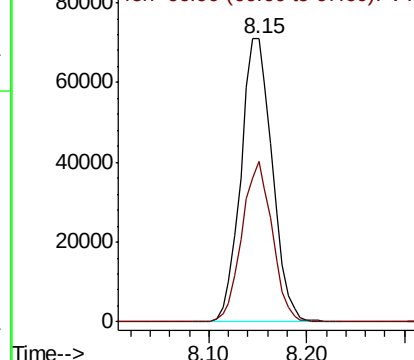
Ion Ratio Lower Upper

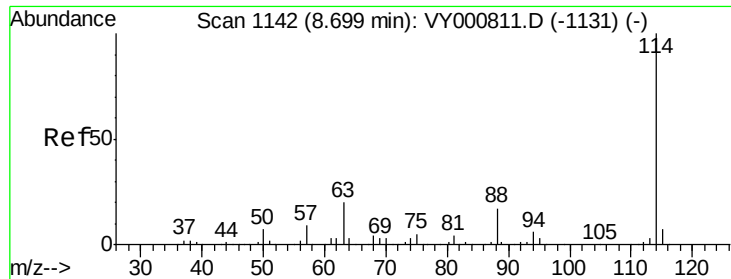
65 100

67 54.8 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0

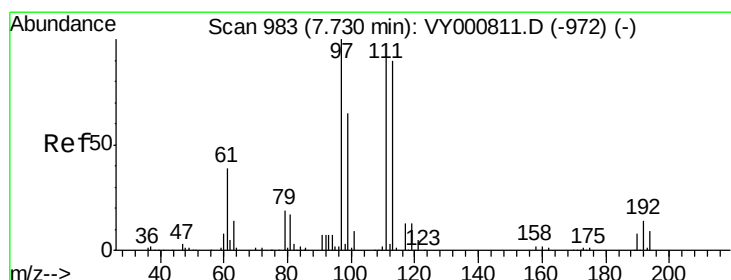
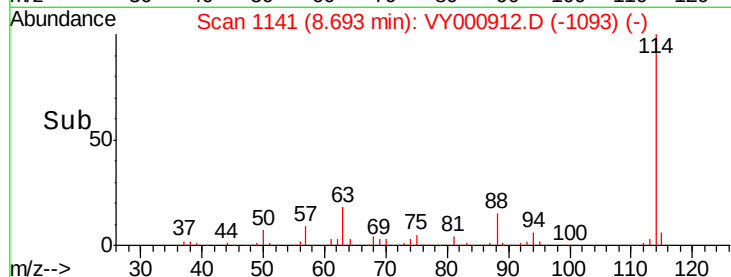
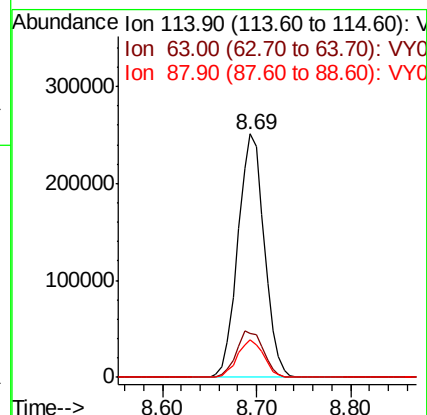
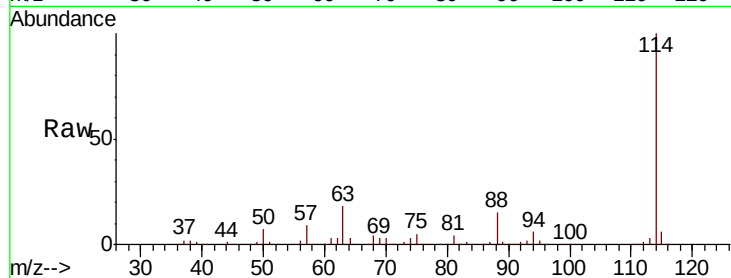




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. -0.01 min
 Lab File: VY000912.D
 Acq: 09 Dec 2019 13:37

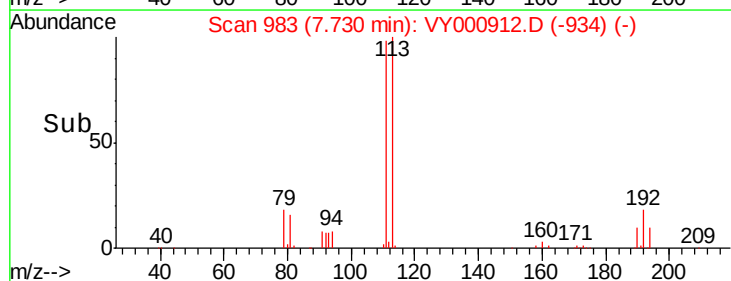
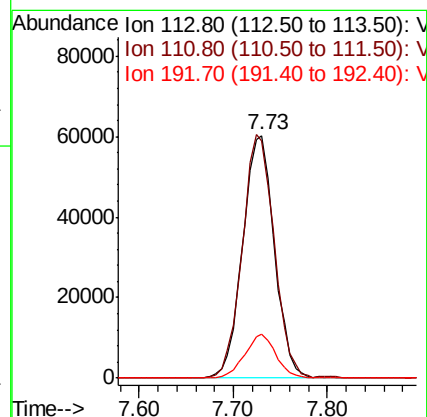
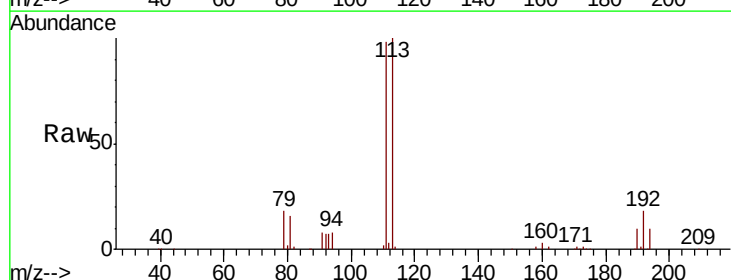
Instrument :
 MSVOA_Y
 ClientSampleId :

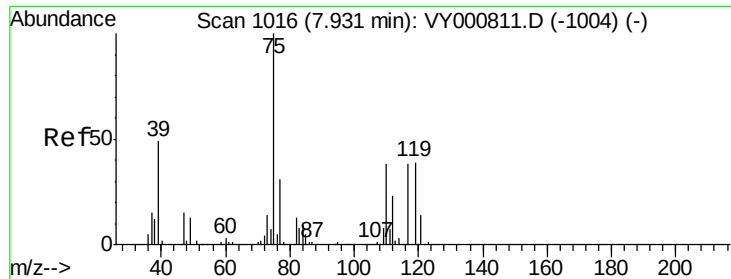
Tot Ion:114 Resp: 489109
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 39.8
 88 15.4 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 49.694 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. -0.00 min
 Lab File: VY000912.D
 Acq: 09 Dec 2019 13:37

Tgt Ion:113 Resp: 141654
 Ion Ratio Lower Upper
 113 100
 111 101.1 82.4 123.6
 192 17.8 14.2 21.2





#36

1,1-Dichloropropene

Concen: 4.652 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.14 min

Lab File: VY000912.D

Acq: 09 Dec 2019 13:37

Instrument :

MSVOA_Y

ClientSampleId :

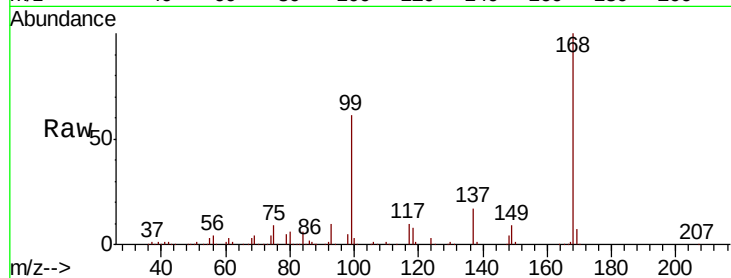
Tot Ion: 75 Resp: 22624

Ion Ratio Lower Upper

75 100

110 8.5 17.9 53.7#

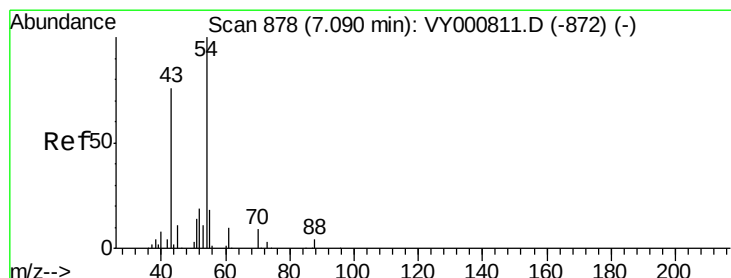
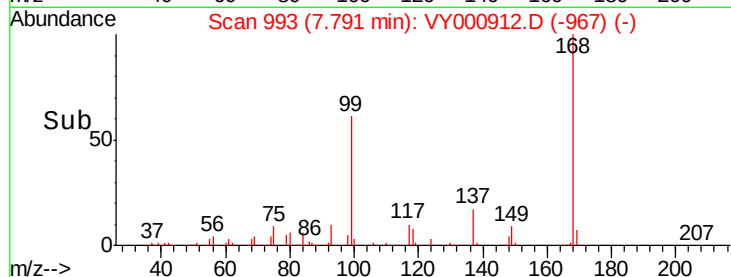
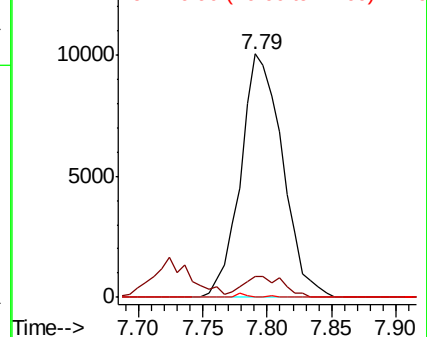
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): VY0

Ion 76.90 (76.60 to 77.60): VY0



#37

Ethyl Acetate

Concen: 2.186 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.09 min

Lab File: VY000912.D

Acq: 09 Dec 2019 13:37

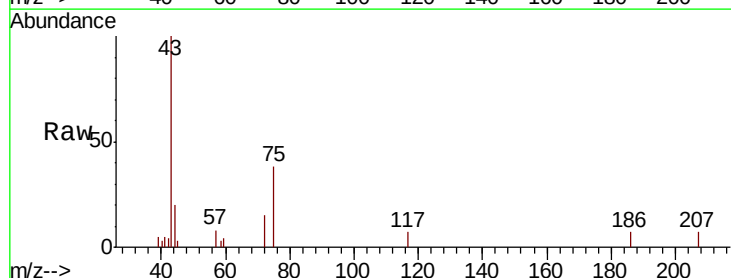
Tgt Ion: 43 Resp: 6138

Ion Ratio Lower Upper

43 100

61 1.0 11.8 17.8#

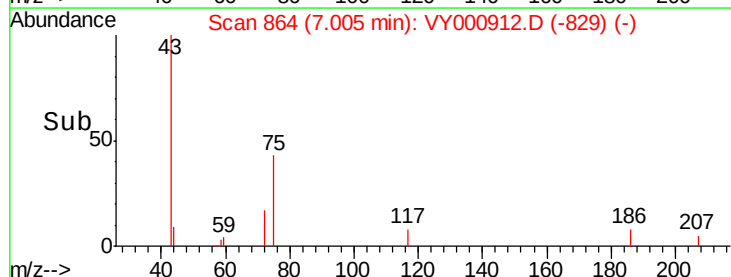
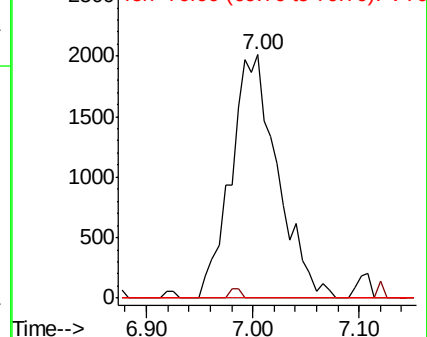
70 0.0 8.7 13.1#

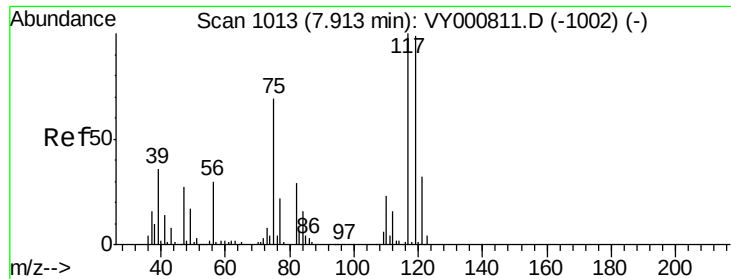


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 70.00 (69.70 to 70.70): VY0

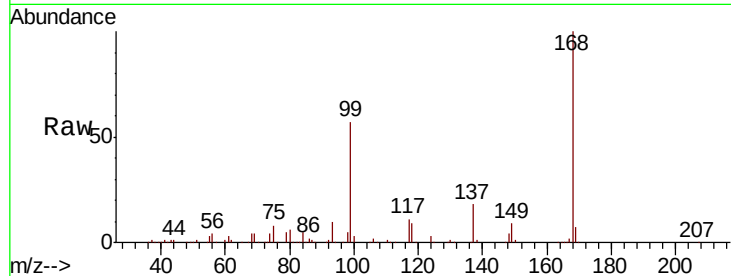




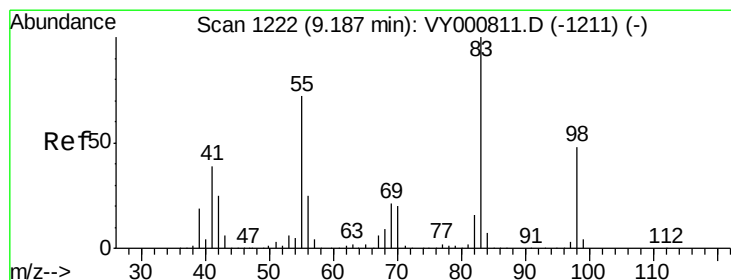
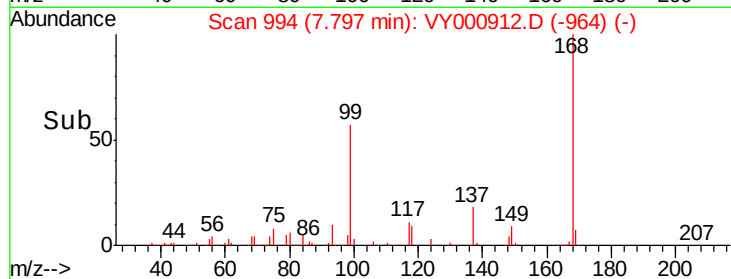
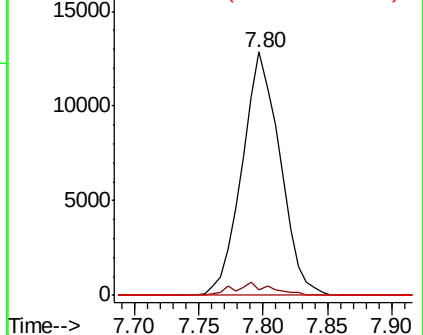
#38
Carbon Tetrachloride
Concen: 6.059 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.12 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:117 Resp: 26242
Ion Ratio Lower Upper
117 100
119 2.4 79.3 118.9#
121 0.0 25.5 38.3#

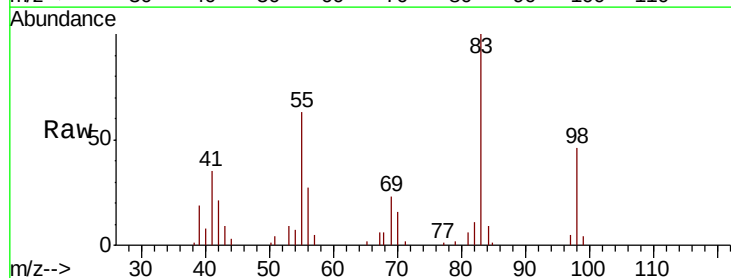


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

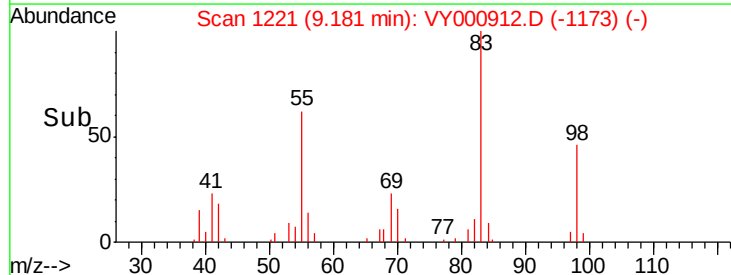
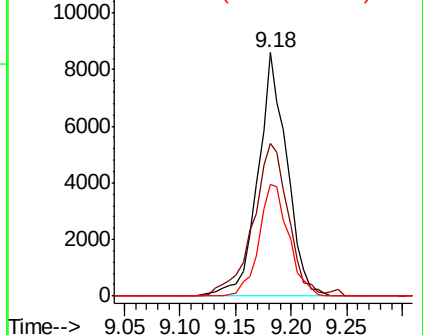


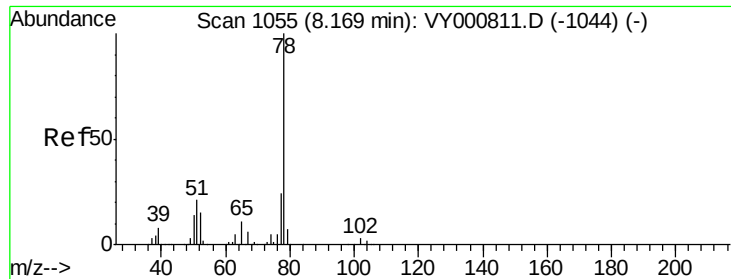
#39
Methylcyclohexane
Concen: 2.431 ug/l
RT: 9.18 min Scan# 1221
Delta R.T. -0.01 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

Tgt Ion: 83 Resp: 15664
Ion Ratio Lower Upper
83 100
55 62.6 57.8 86.6
98 45.8 38.6 58.0



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: 1.546 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VY000912.D

Acq: 09 Dec 2019 13:37

Instrument :

MSVOA_Y

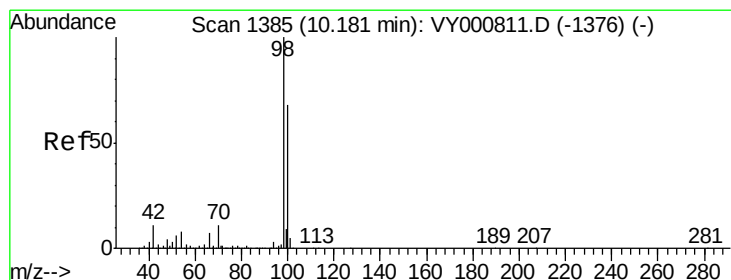
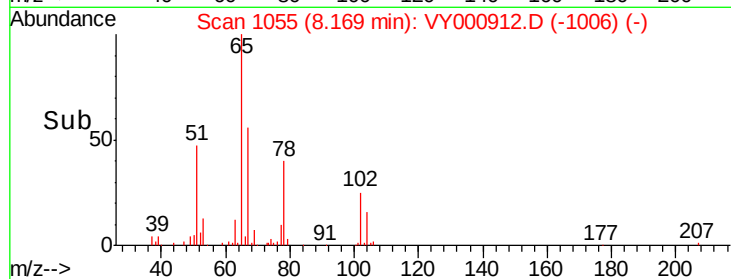
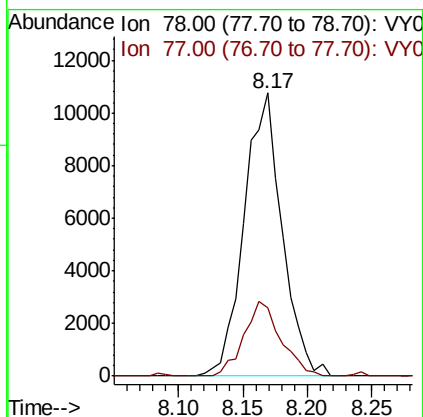
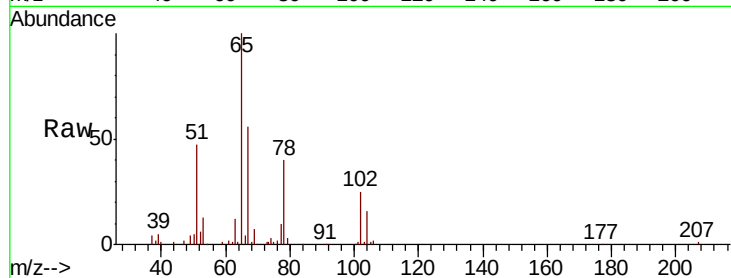
ClientSampled :

Tot Ion: 78 Resp: 21906

Ion Ratio Lower Upper

78 100

77 23.9 19.2 28.8



#50

Toluene-d8

Concen: 50.650 ug/l

RT: 10.17 min Scan# 1384

Delta R.T. -0.01 min

Lab File: VY000912.D

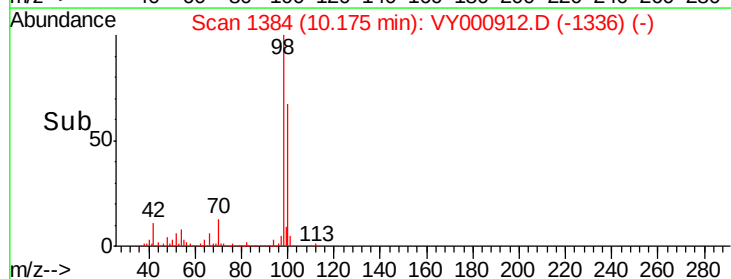
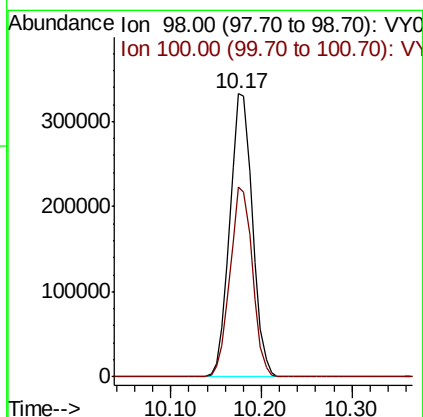
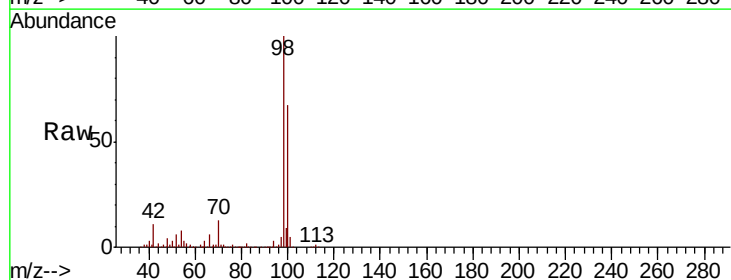
Acq: 09 Dec 2019 13:37

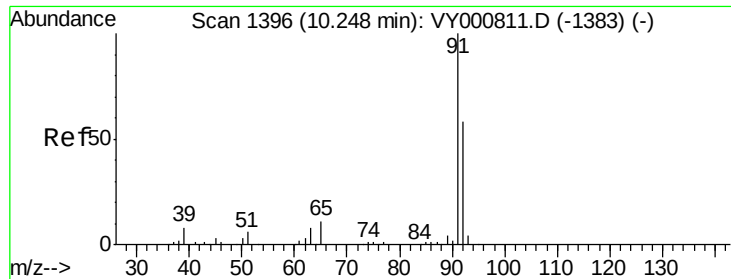
Tgt Ion: 98 Resp: 577226

Ion Ratio Lower Upper

98 100

100 66.4 53.1 79.7





#52

Toluene

Concen: 1.139 ug/l

RT: 10.24 min Scan# 1395

Delta R.T. -0.01 min

Lab File: VY000912.D

Acq: 09 Dec 2019 13:37

Instrument :

MSVOA_Y

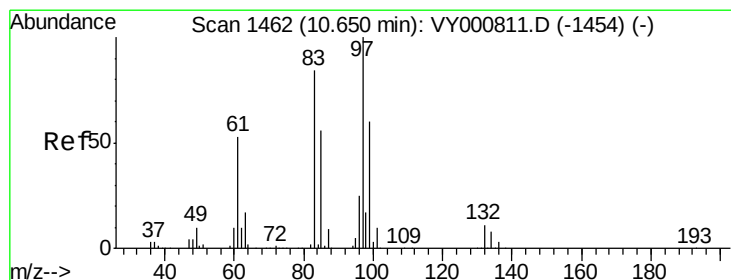
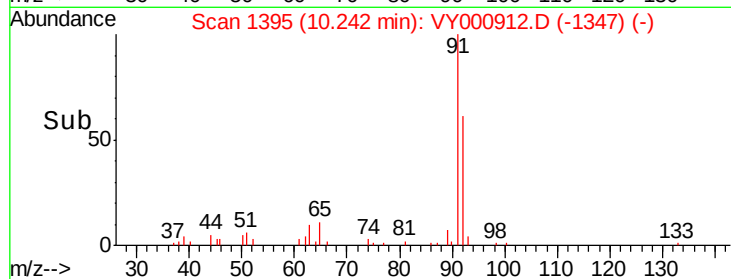
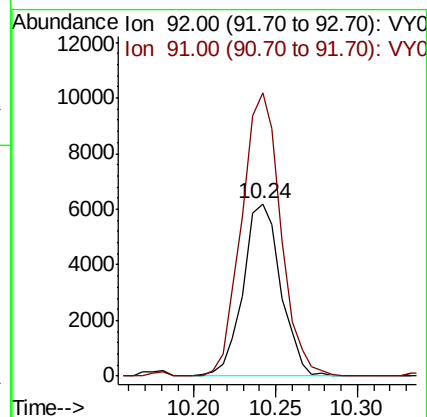
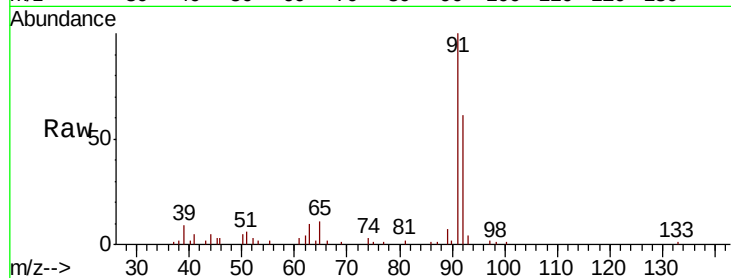
ClientSampleId :

Tot Ion: 92 Resp: 9988

Ion Ratio Lower Upper

92 100

91 170.5 136.6 204.8



#55

1,1,2-Trichloroethane

Concen: 3.382 ug/l

RT: 10.62 min Scan# 1457

Delta R.T. -0.03 min

Lab File: VY000912.D

Acq: 09 Dec 2019 13:37

Tgt Ion: 97 Resp: 9289

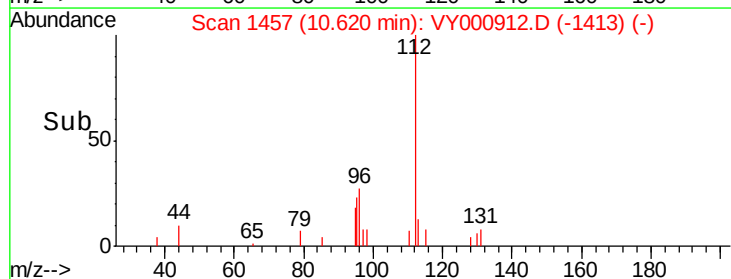
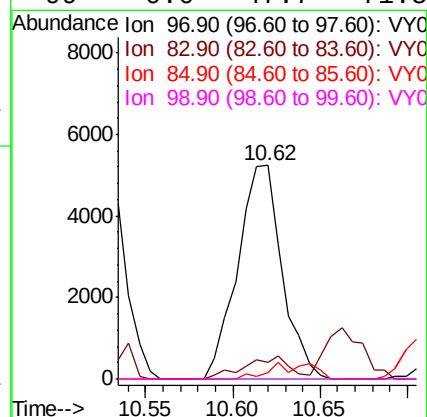
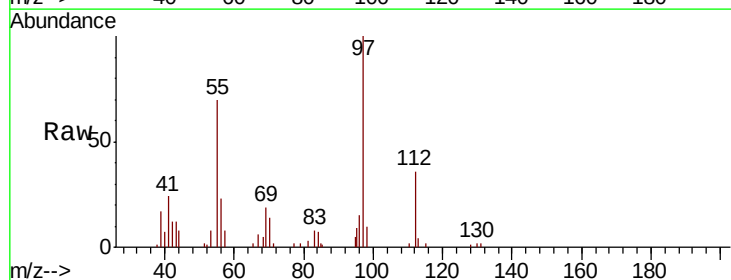
Ion Ratio Lower Upper

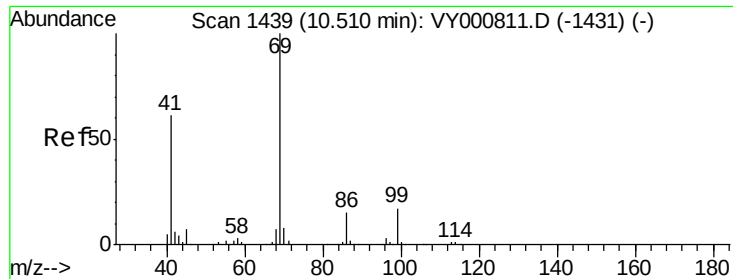
97 100

83 8.1 67.5 101.3#

85 2.9 44.5 66.7#

99 0.0 47.7 71.5#

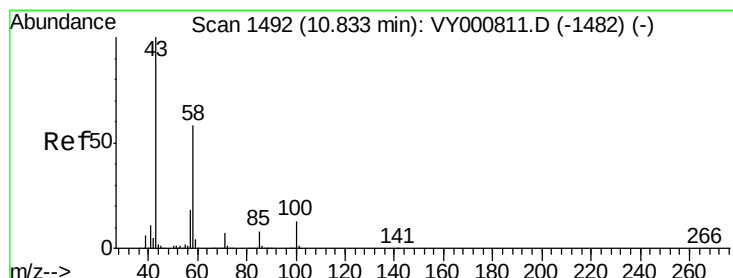
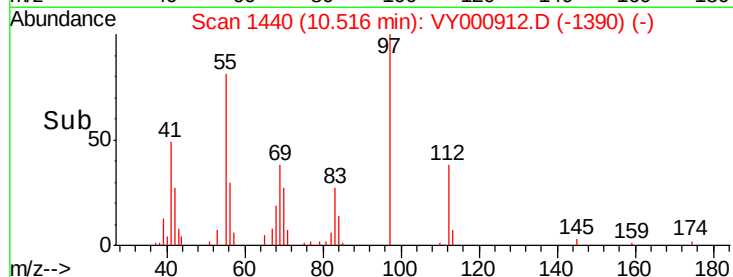
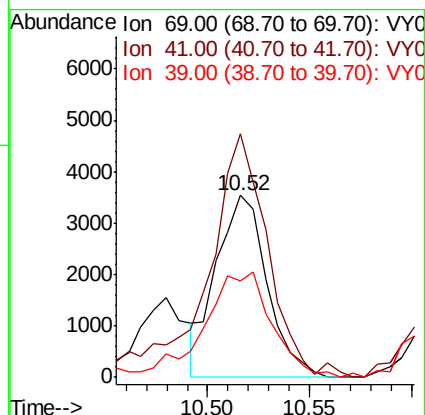
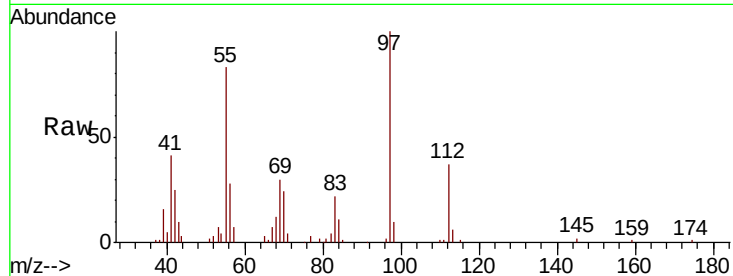




#56
Ethyl methacrylate
Concen: 1.562 ug/l
RT: 10.52 min Scan# 1440
Delta R.T. 0.01 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

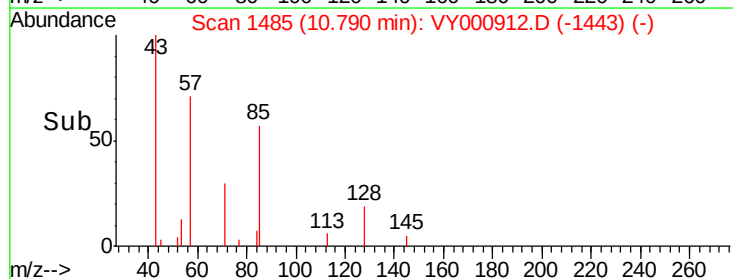
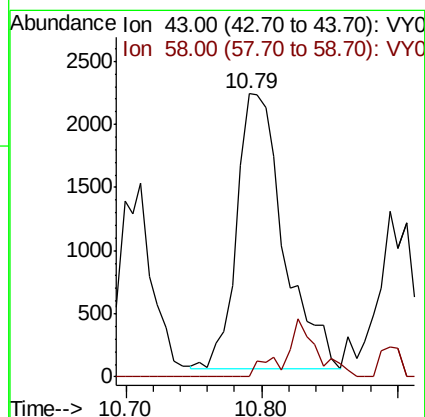
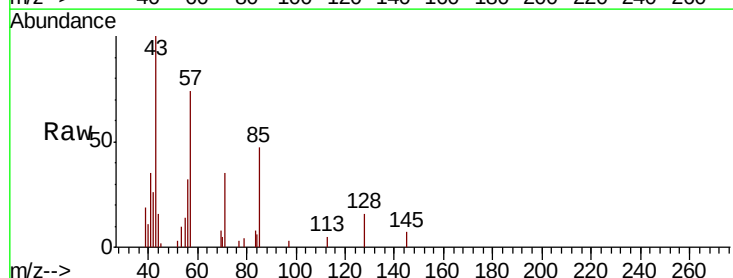
Instrument :
MSVOA_Y
ClientSampled :

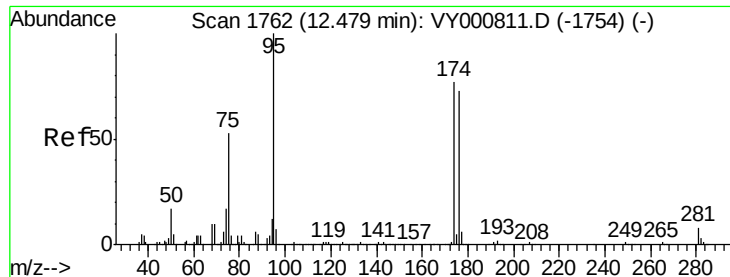
Tot Ion: 69 Resp: 6138
Ion Ratio Lower Upper
69 100
41 157.2 49.0 73.6#
39 76.8 23.1 34.7#



#59
2-Hexanone
Concen: 2.645 ug/l
RT: 10.79 min Scan# 1485
Delta R.T. -0.04 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

Tgt Ion: 43 Resp: 5269
Ion Ratio Lower Upper
43 100
58 0.0 29.0 87.1#

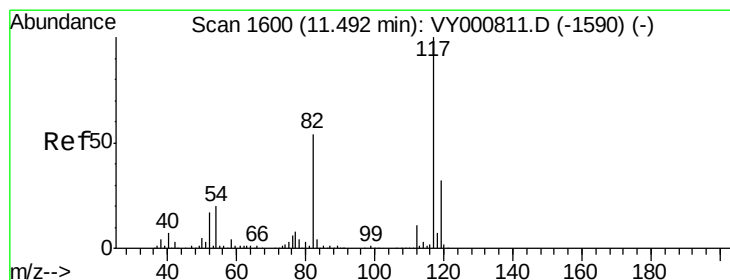
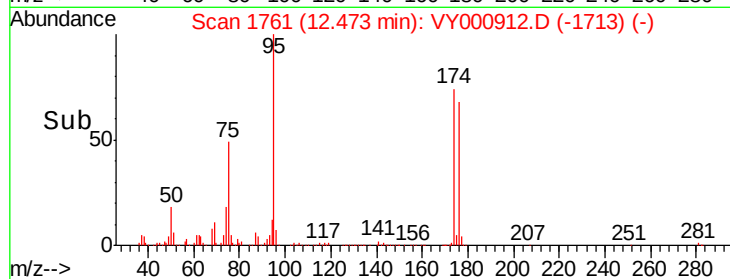
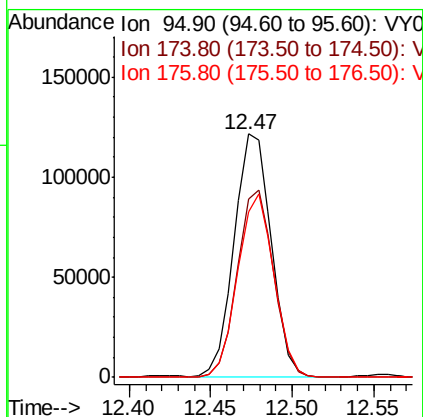
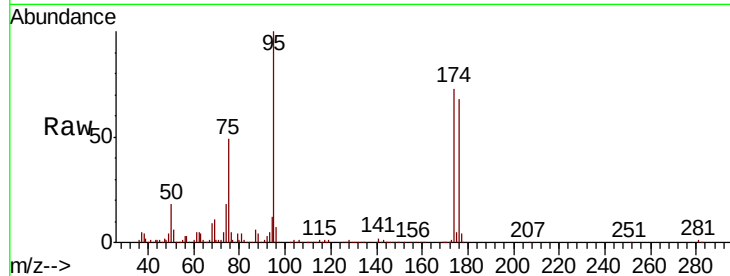




#62
4-Bromofluorobenzene
Concen: 44.828 ug/l
RT: 12.47 min Scan# 1761
Delta R.T. -0.01 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

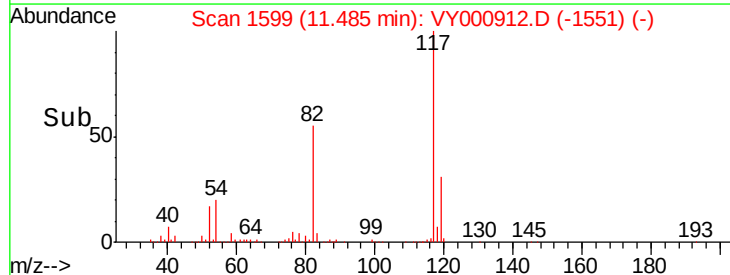
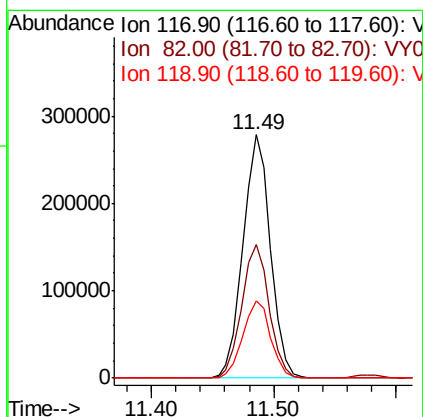
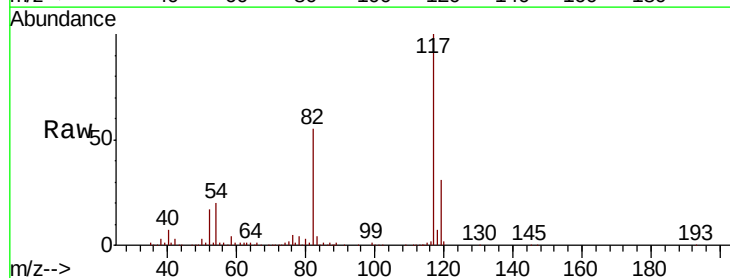
Instrument :
MSVOA_Y
ClientSampleId :

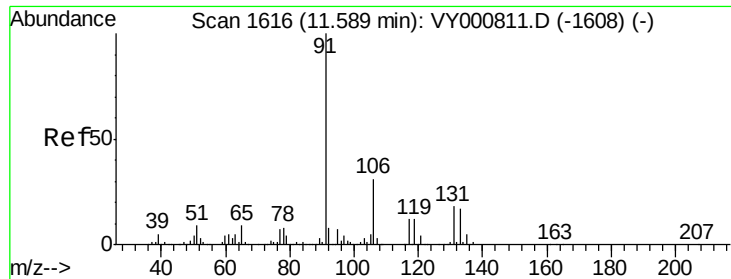
Tot Ion	Ratio	Lower	Upper
95	100		
174	75.6	0.0	150.6
176	74.1	0.0	145.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.0	43.1	64.7
119	31.5	25.3	37.9





#67

Ethyl Benzene

Concen: 1.844 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. -0.00 min

Lab File: VY000912.D

Acq: 09 Dec 2019 13:37

Instrument :

MSVOA_Y

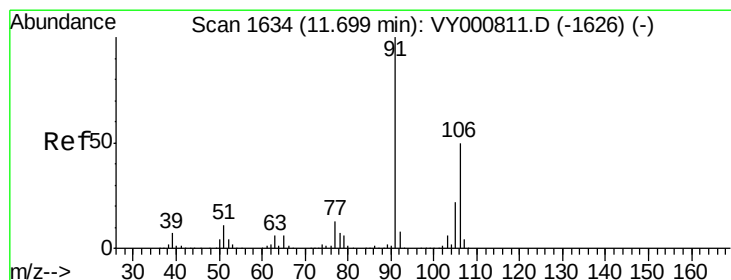
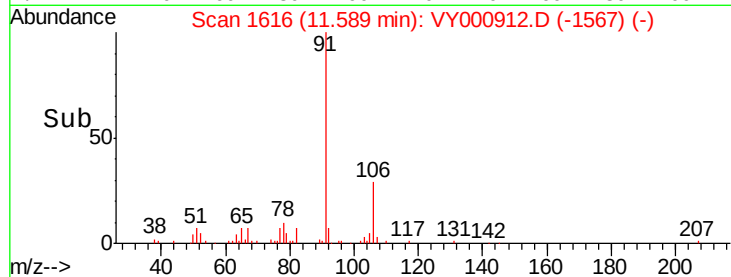
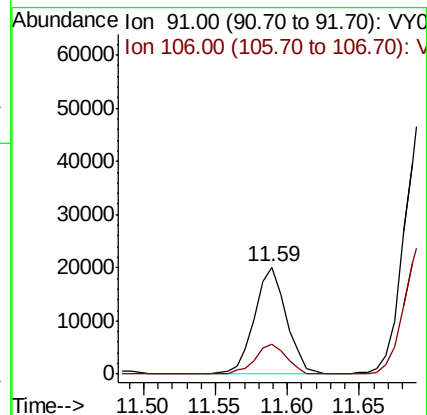
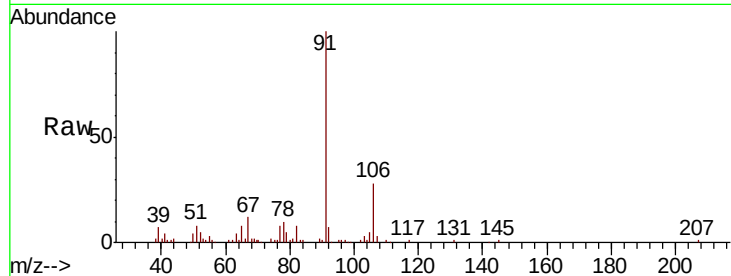
ClientSampleId :

Tot Ion: 91 Resp: 30820

Ion Ratio Lower Upper

91 100

106 28.3 24.4 36.6



#68

m/p-Xylenes

Concen: 7.268 ug/l

RT: 11.69 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VY000912.D

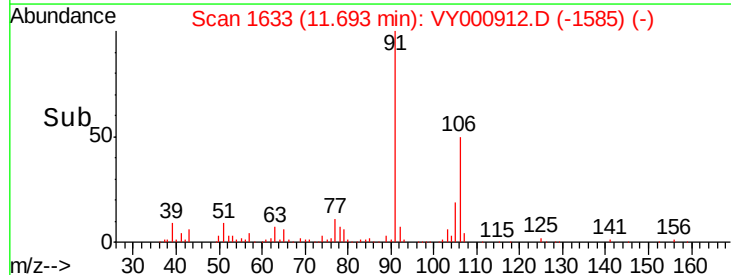
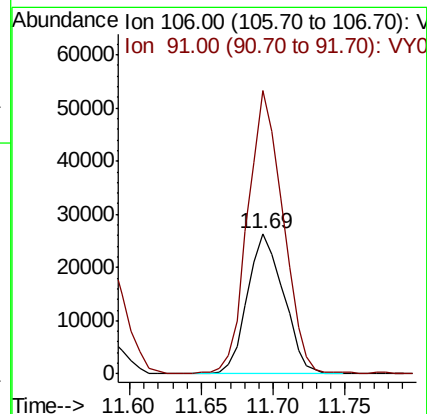
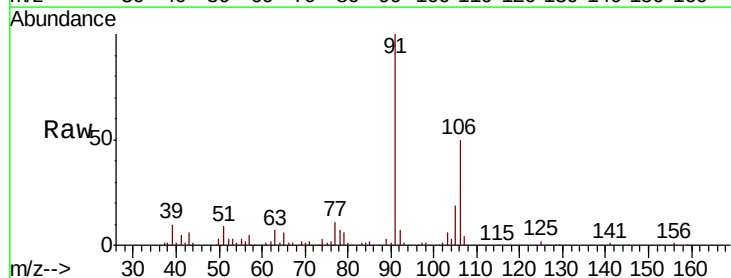
Acq: 09 Dec 2019 13:37

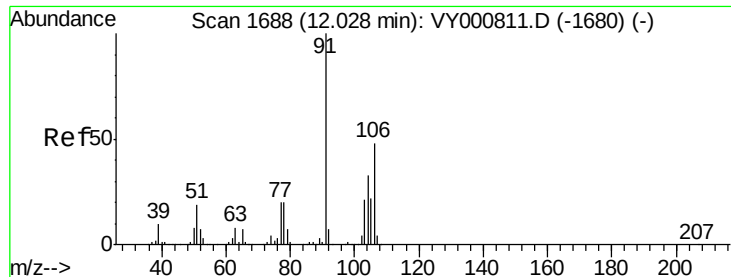
Tgt Ion: 106 Resp: 45601

Ion Ratio Lower Upper

106 100

91 198.0 159.6 239.4

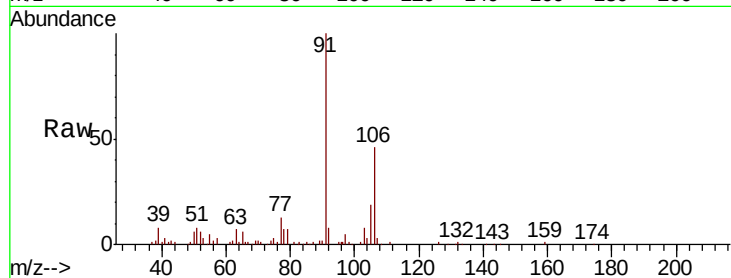




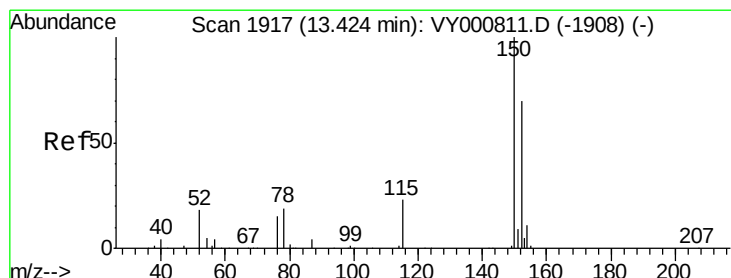
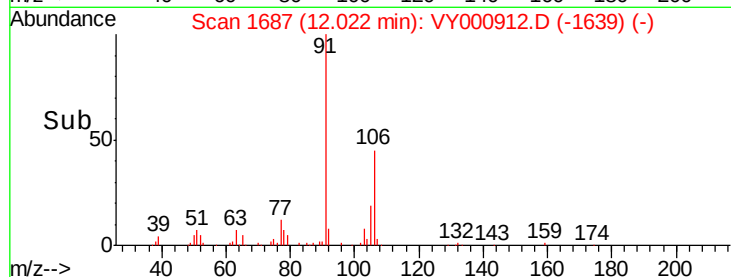
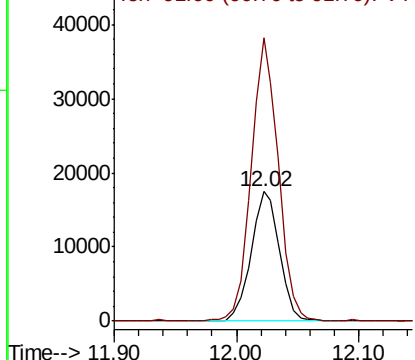
#69
o-Xylene
Concen: 4.790 ug/l
RT: 12.02 min Scan# 1687
Delta R.T. -0.01 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:106 Resp: 28025
Ion Ratio Lower Upper
106 100
91 210.5 106.1 318.1

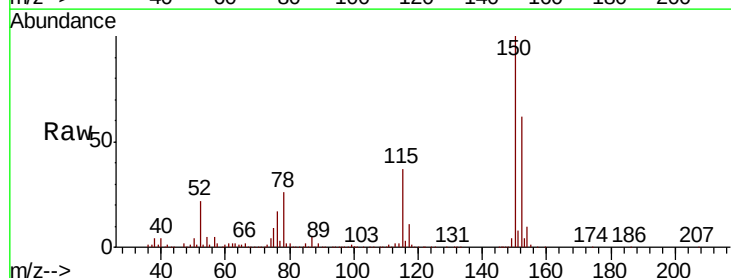


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

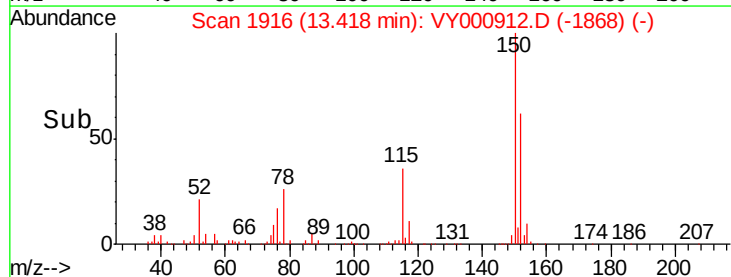
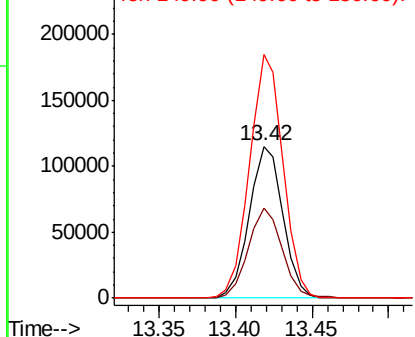


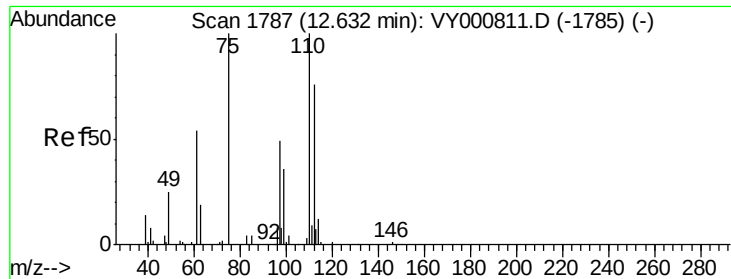
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1916
Delta R.T. -0.01 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

Tgt Ion:152 Resp: 175949
Ion Ratio Lower Upper
152 100
115 59.5 29.3 87.8
150 159.4 0.0 351.2



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

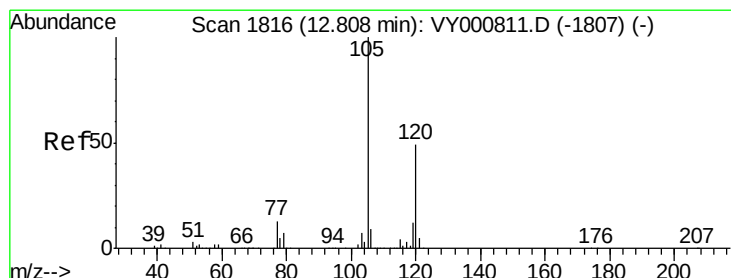
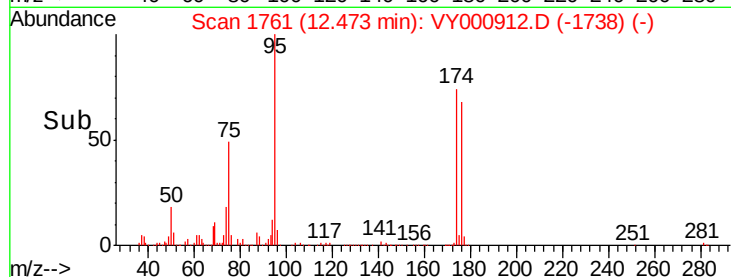
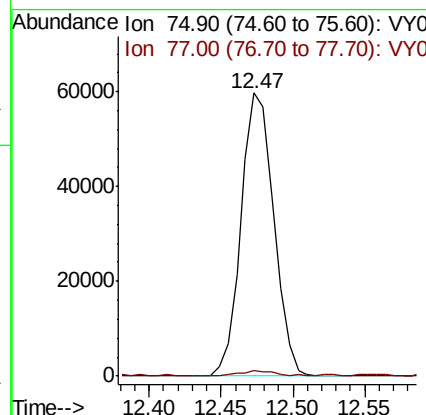
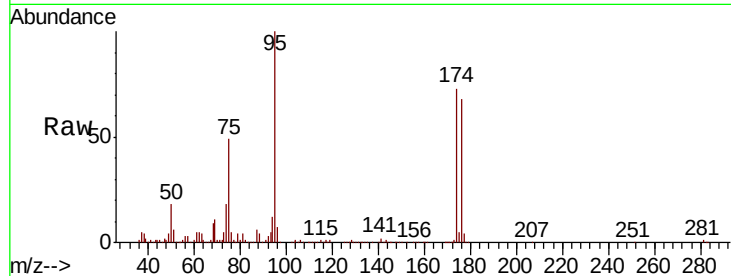




#76
 1,2,3-Trichloropropane
 Concen: 47.317 ug/l
 RT: 12.47 min Scan# 1761
 Delta R.T. -0.16 min
 Lab File: VY000912.D
 Acq: 09 Dec 2019 13:37

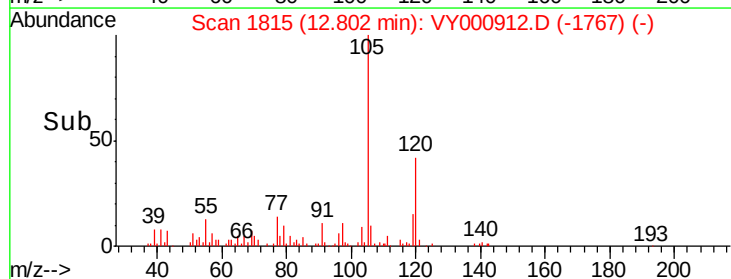
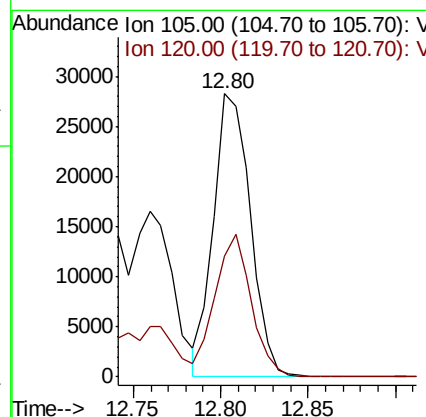
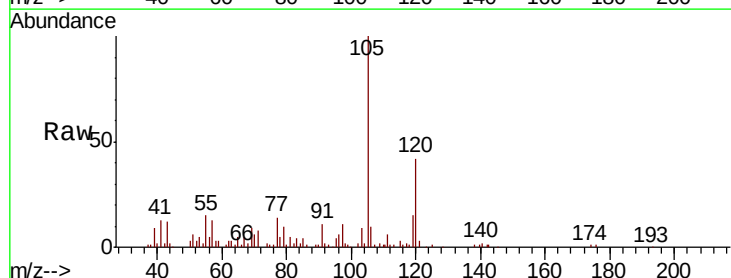
Instrument :
 MSVOA_Y
 ClientSampleId :

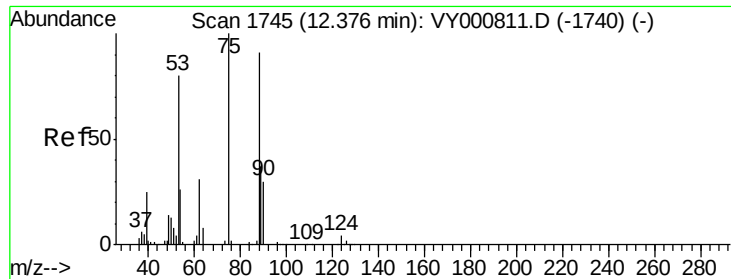
Tot Ion: 75 Resp: 94326
 Ion Ratio Lower Upper
 75 100
 77 2.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 3.594 ug/l
 RT: 12.80 min Scan# 1815
 Delta R.T. -0.01 min
 Lab File: VY000912.D
 Acq: 09 Dec 2019 13:37

Tgt Ion: 105 Resp: 41684
 Ion Ratio Lower Upper
 105 100
 120 49.2 24.6 74.0

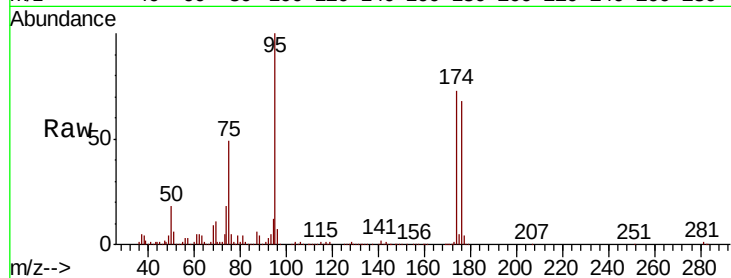




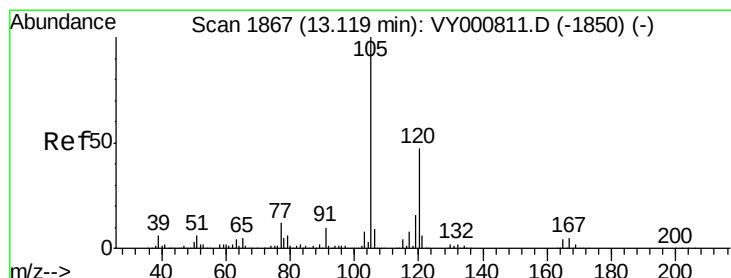
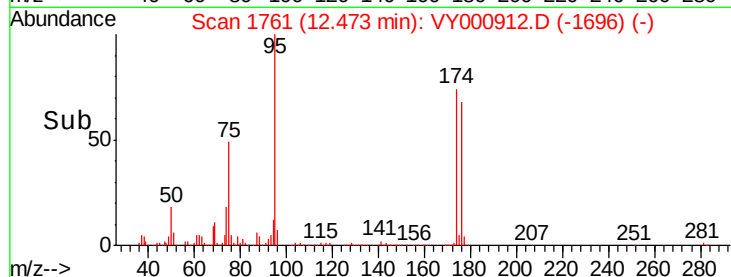
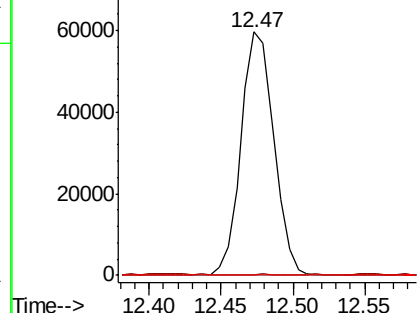
#81
trans-1,4-Dichloro-2-butene
Concen: 92.944 ug/l
RT: 12.47 min Scan# 1761
Delta R.T. 0.10 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 75 Resp: 94326
Ion Ratio Lower Upper
75 100
53 0.6 64.6 96.8#
89 0.1 33.6 50.4#

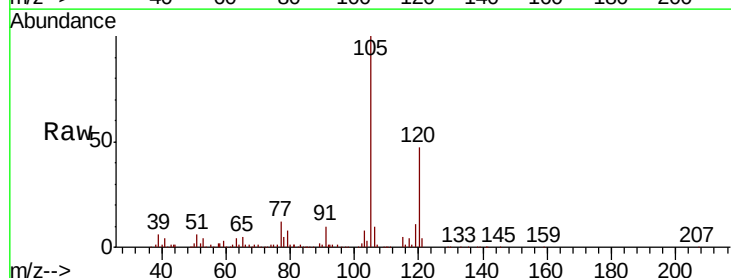


Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 53.00 (52.70 to 53.70): VY0
Ion 88.90 (88.60 to 89.60): VY0

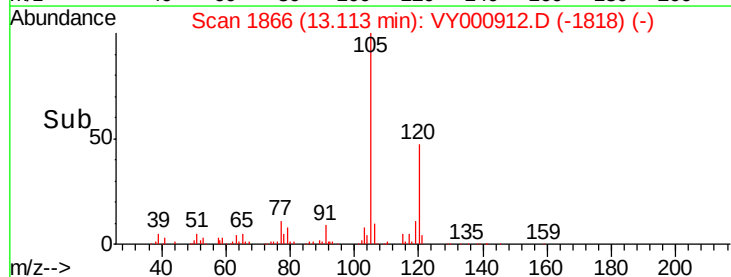
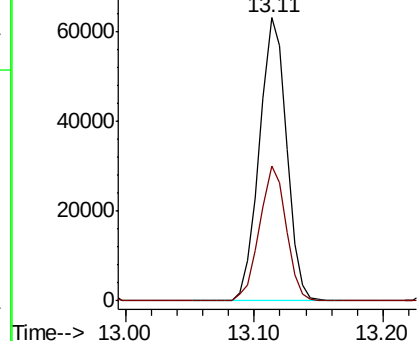


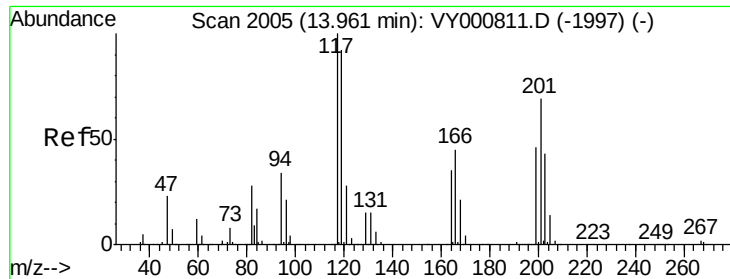
#84
1,2,4-Trimethylbenzene
Concen: 7.890 ug/l
RT: 13.11 min Scan# 1866
Delta R.T. -0.01 min
Lab File: VY000912.D
Acq: 09 Dec 2019 13:37

Tgt Ion:105 Resp: 91564
Ion Ratio Lower Upper
105 100
120 46.8 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 1.239 ug/l

RT: 13.97 min Scan# 2006

Delta R.T. 0.01 min

Lab File: VY000912.D

Acq: 09 Dec 2019 13:37

Instrument :

MSVOA_Y

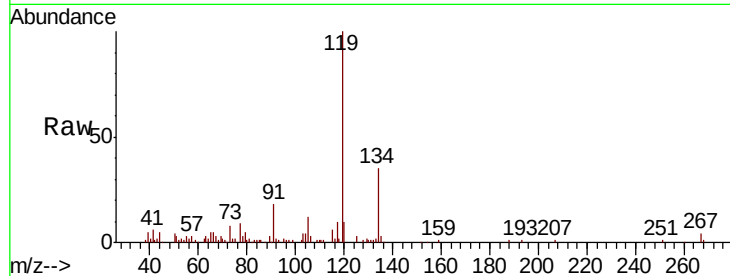
ClientSampleId :

Tot Ion:117 Resp: 2816

Ion Ratio Lower Upper

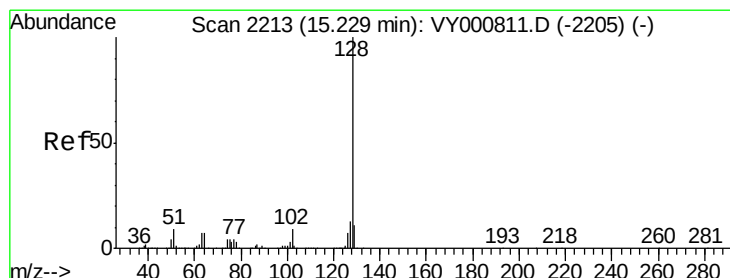
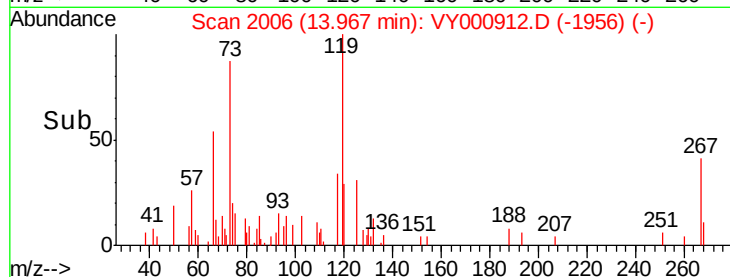
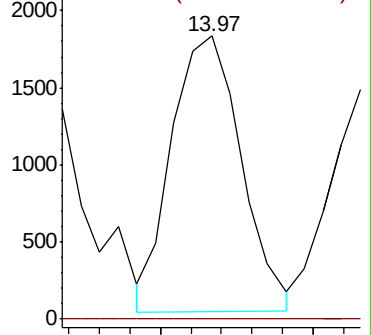
117 100

201 0.0 34.0 102.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 387.741 ug/l

RT: 15.23 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VY000912.D

Acq: 09 Dec 2019 13:37

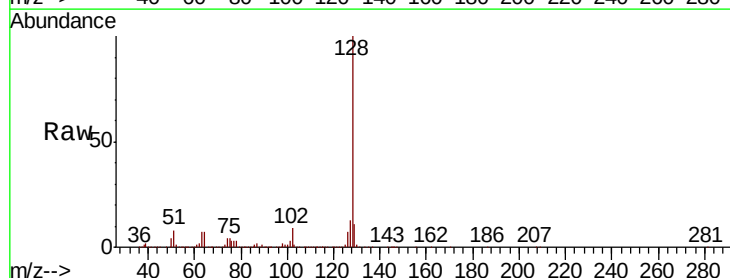
Tgt Ion:128 Resp: 3264527

Ion Ratio Lower Upper

128 100

127 12.3 10.1 15.1

129 10.8 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

