

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY092019\
 Data File : VY000108.D
 Acq On : 20 Sep 2019 15:18
 Operator : SY/MD
 Sample : K4863-03RE
 Misc : 5.31g/5.00ml/MSVOA Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 20 23:47:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y091719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 05:38:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.79	168	27102	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	51081	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	38202	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	11246	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	16324	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	
35) Dibromofluoromethane	7.73	113	14668	47.43	ug/l	0.01
Spiked Amount			Recovery	=	94.86%	
50) Toluene-d8	10.18	98	59244	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
62) 4-Bromofluorobenzene	12.48	95	15353	34.04	ug/l	0.00
Spiked Amount			Recovery	=	68.08%	

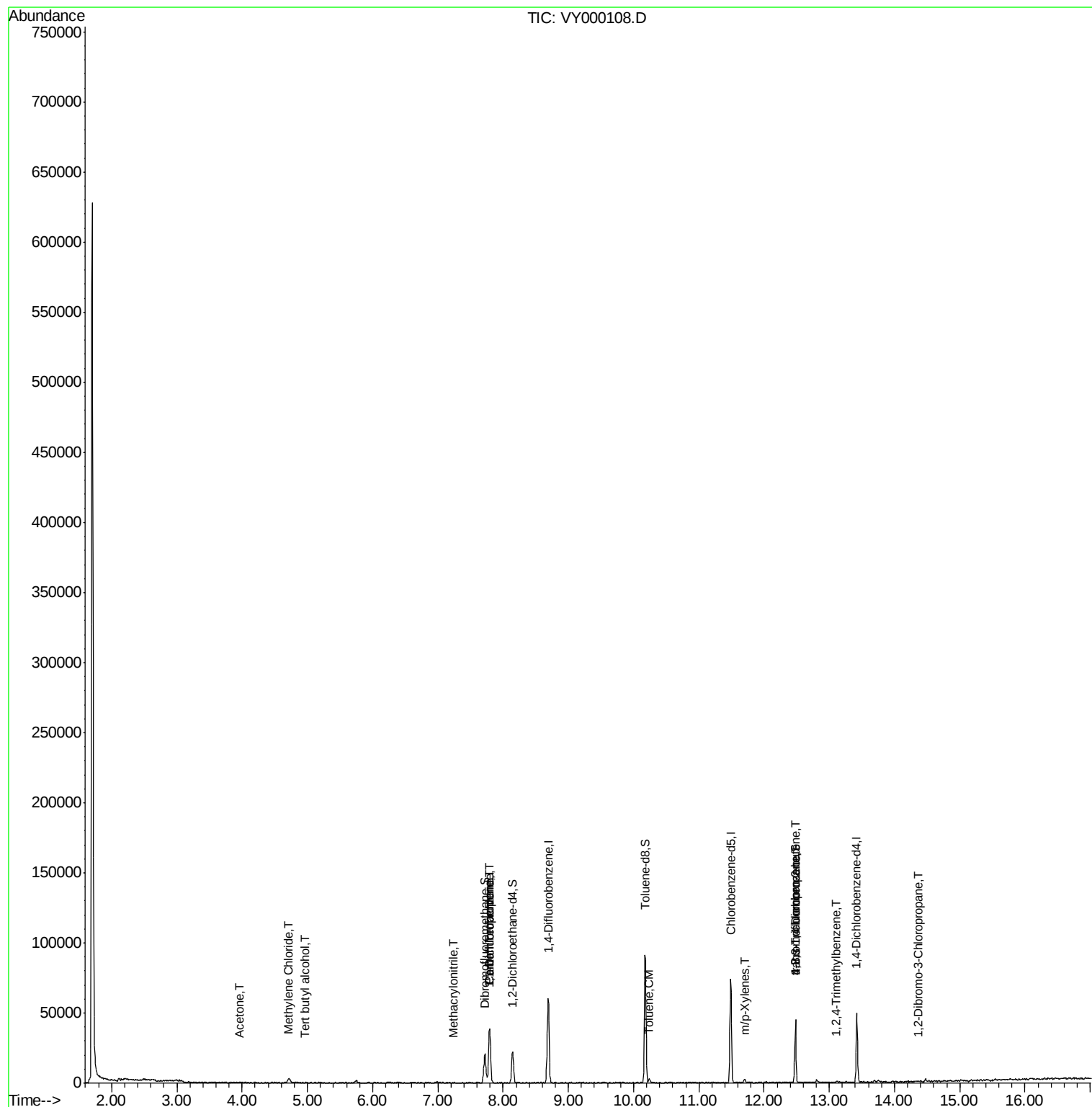
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.11	50	943	Below Cal	#	61
5) Bromomethane	2.61	94	50	Below Cal	#	6
11) Tert butyl alcohol	4.96	59	87	2.354	ug/l #	73
16) Acetone	3.96	43	439	6.047	ug/l #	33
17) Carbon Disulfide	4.19	76	180	Below Cal	#	77
20) Methylene Chloride	4.72	84	2412	7.062	ug/l #	74
31) Cyclohexane	7.78	56	819	Below Cal	#	62
36) 1,1-Dichloropropene	7.78	75	2427	6.354	ug/l #	40
38) Carbon Tetrachloride	7.79	117	2797	7.759	ug/l #	19
41) Methacrylonitrile	7.24	41	49	4.535	ug/l #	1
52) Toluene	10.24	92	1277	1.593	ug/l	92
68) m/p-Xylenes	11.71	106	604	1.177	ug/l	95
76) 1,2,3-Trichloropropane	12.48	75	7951	50.250	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	7951	96.642	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.11	105	746	1.008	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	14.37	75	123	3.238	ug/l #	2

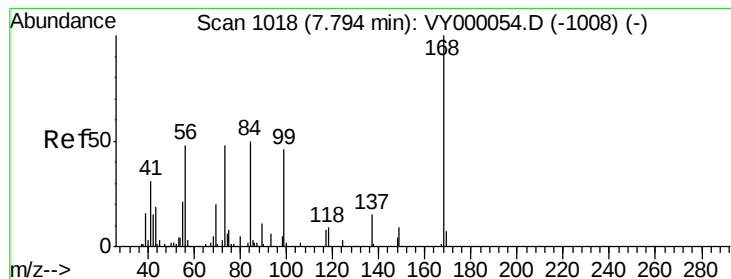
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VY000108.D

Acq: 20 Sep 2019 15:18

Instrument :

MSVOA_Y

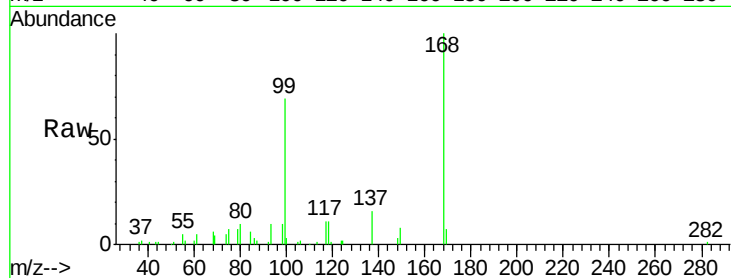
ClientSampleId :

Tot Ion:168 Resp: 27102

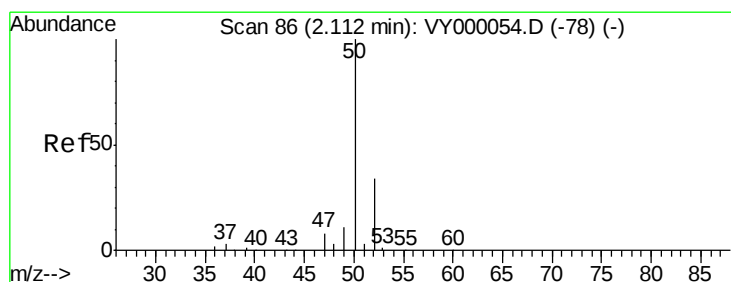
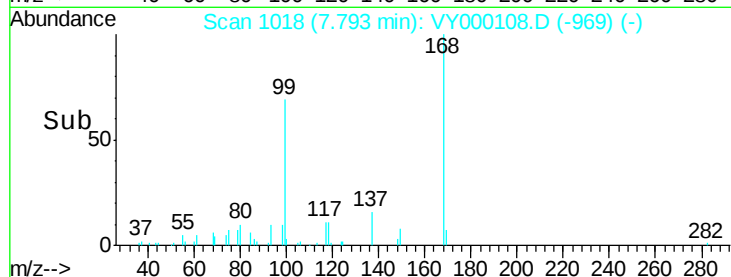
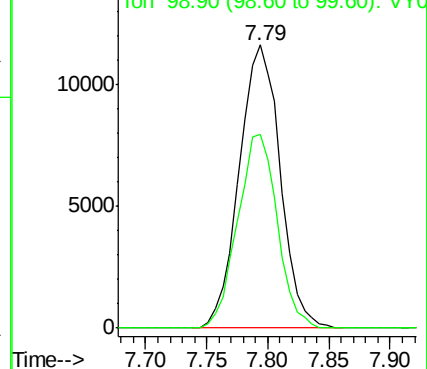
Ion Ratio Lower Upper

168 100

99 68.5 44.2 66.2#



Abundance Ion 167.90 (167.60 to 168.60): VY000054.D (-1008) (-)



#3

Chloromethane

Concen: Below Cal

RT: 2.11 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY000108.D

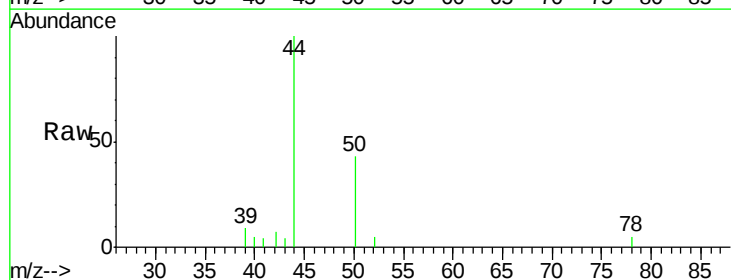
Acq: 20 Sep 2019 15:18

Tgt Ion: 50 Resp: 943

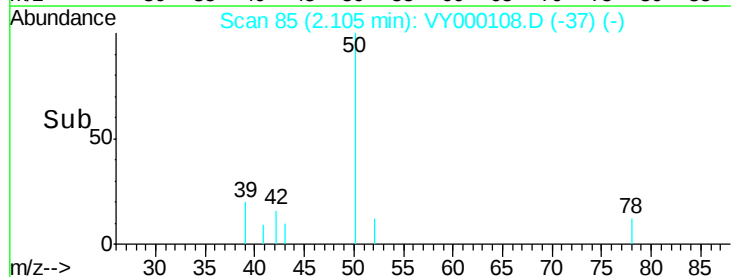
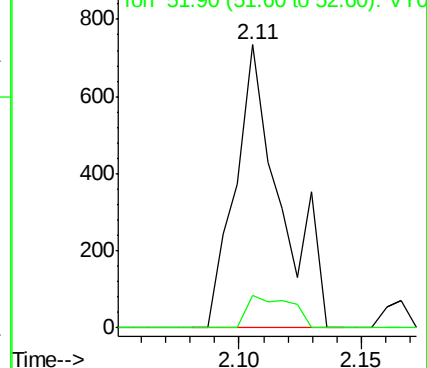
Ion Ratio Lower Upper

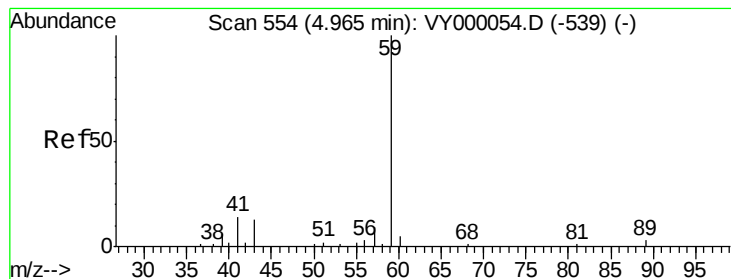
50 100

52 11.6 27.3 40.9#



Abundance Ion 49.90 (49.60 to 50.60): VY000054.D (-78) (-)



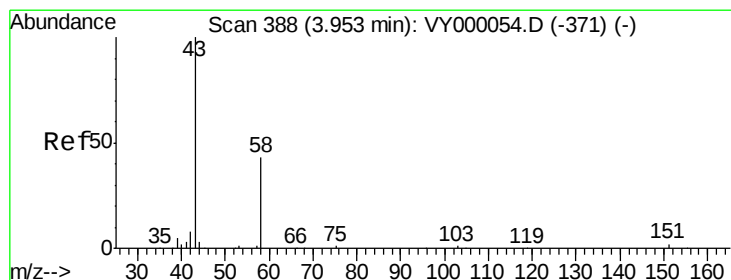
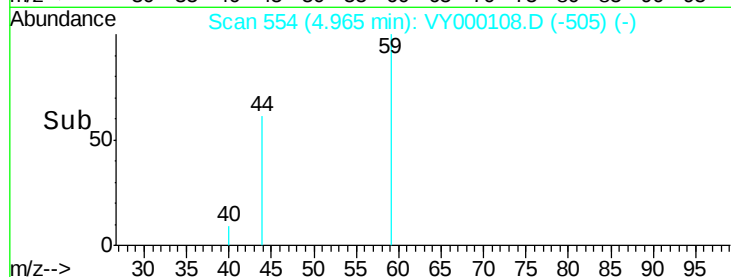
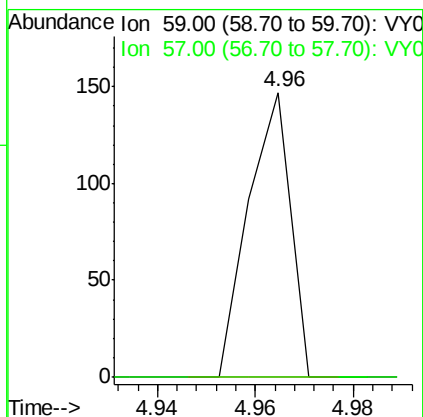
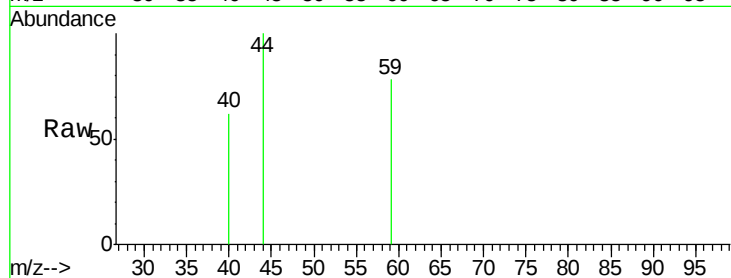


#11

Tert butyl alcohol
 Concen: 2.354 ug/l
 RT: 4.96 min Scan# 554
 Delta R.T. 0.00 min
 Lab File: VY000108.D
 Acq: 20 Sep 2019 15:18

Instrument :
 MSVOA_Y
 ClientSampled :

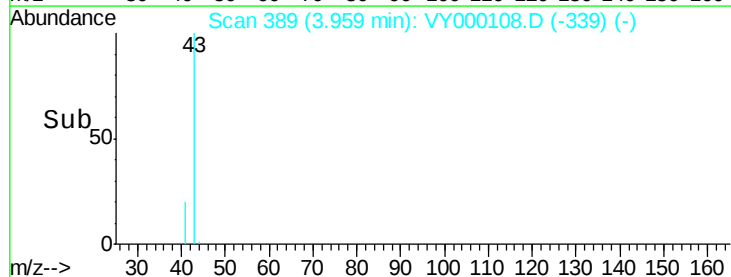
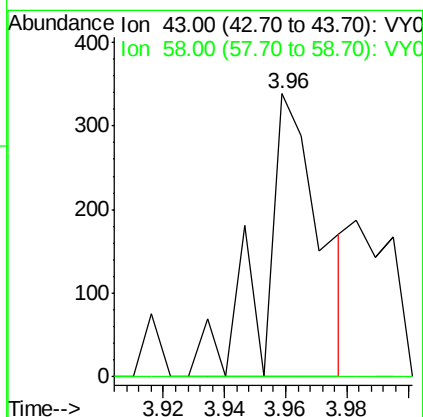
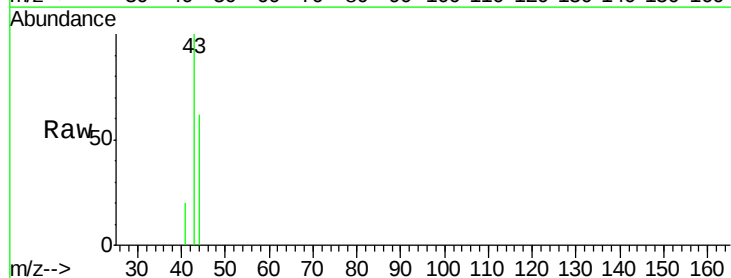
Tot Ion: 59 Resp: 87
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

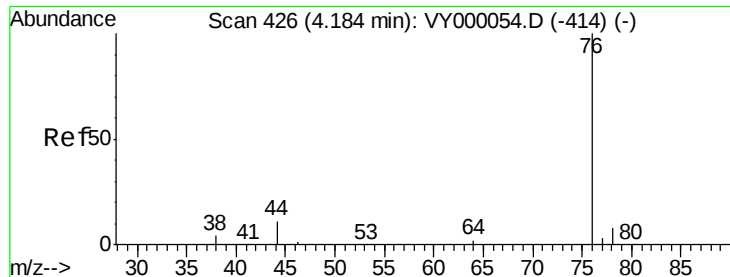


#16

Acetone
 Concen: 6.047 ug/l
 RT: 3.96 min Scan# 389
 Delta R.T. 0.01 min
 Lab File: VY000108.D
 Acq: 20 Sep 2019 15:18

Tgt Ion: 43 Resp: 439
 Ion Ratio Lower Upper
 43 100
 58 0.0 34.5 51.7#





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.19 min Scan# 427

Delta R.T. 0.01 min

Lab File: VY000108.D

Acq: 20 Sep 2019 15:18

Instrument :

MSVOA_Y

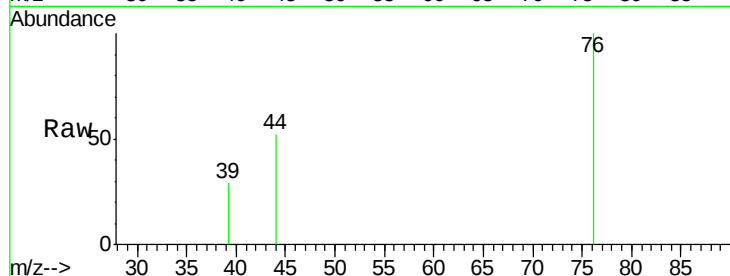
ClientSampled :

Tot Ion: 76 Resp: 180

Ion Ratio Lower Upper

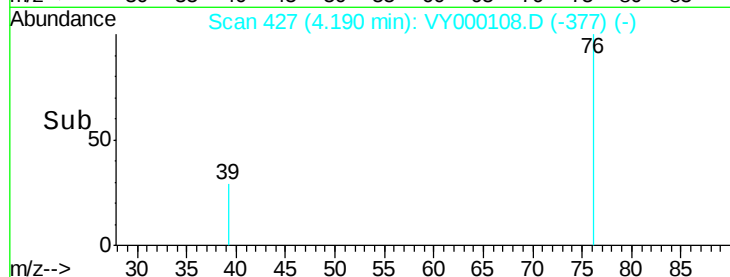
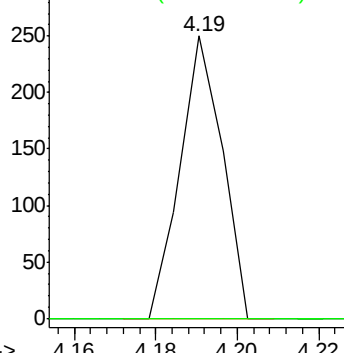
76 100

78 0.0 6.6 9.8#

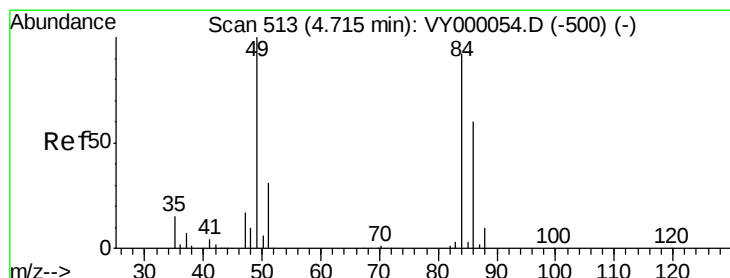


Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



Time-->



#20

Methylene Chloride

Concen: 7.062 ug/l

RT: 4.72 min Scan# 514

Delta R.T. 0.01 min

Lab File: VY000108.D

Acq: 20 Sep 2019 15:18

Tgt Ion: 84 Resp: 2412

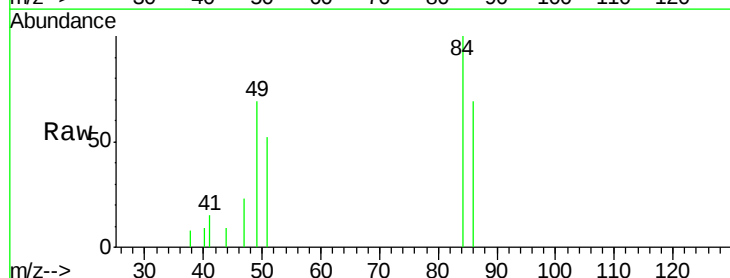
Ion Ratio Lower Upper

84 100

49 69.2 87.4 131.0#

51 52.0 27.2 40.8#

86 68.6 52.8 79.2

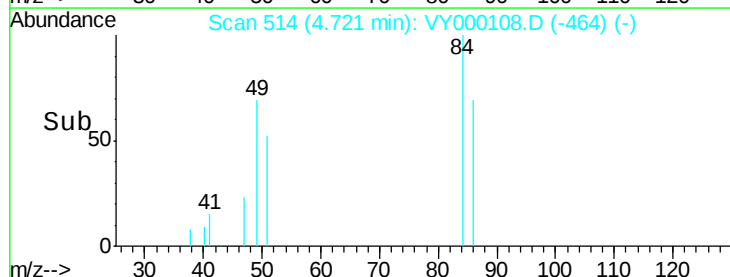
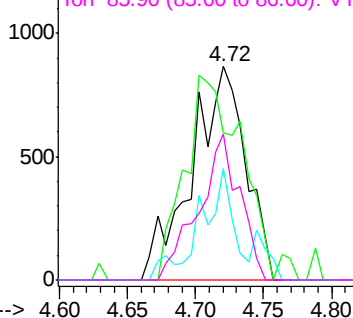


Abundance Ion 83.90 (83.60 to 84.60): VY0

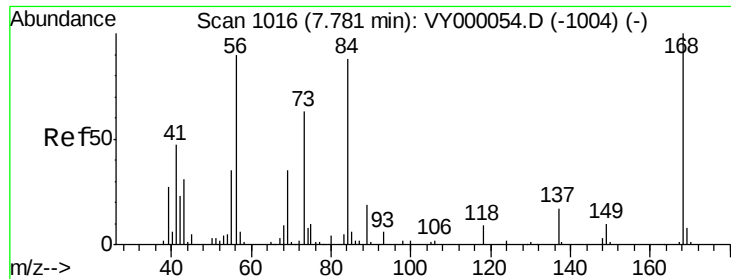
Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0



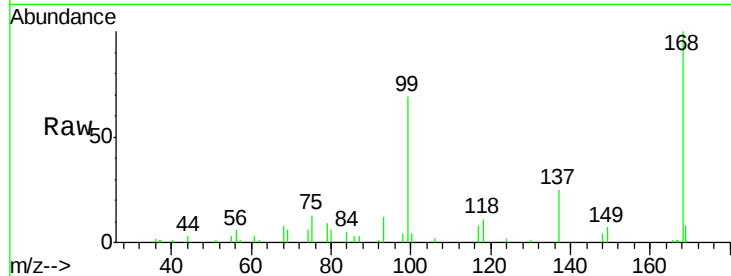
Time-->



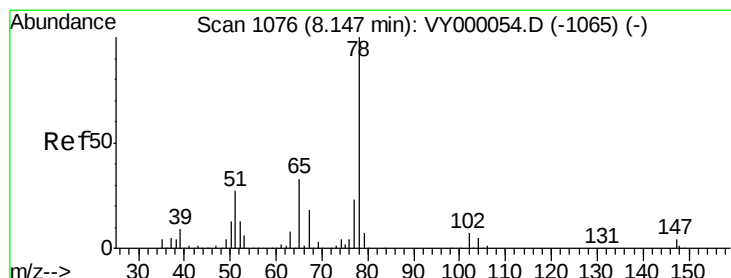
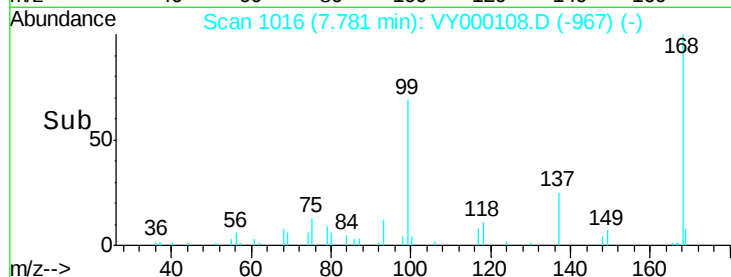
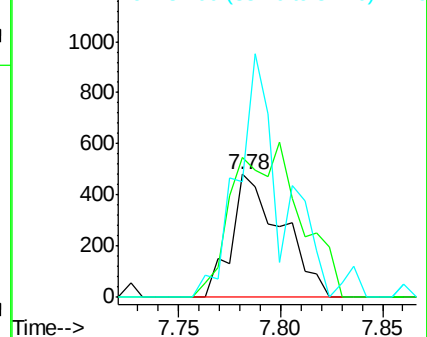
#31
Cyclohexane
Concen: Below Cal
RT: 7.78 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VY000108.D
Acq: 20 Sep 2019 15:18

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 56 Resp: 819
Ion Ratio Lower Upper
56 100
69 113.9 30.9 46.3#
84 94.0 78.5 117.7

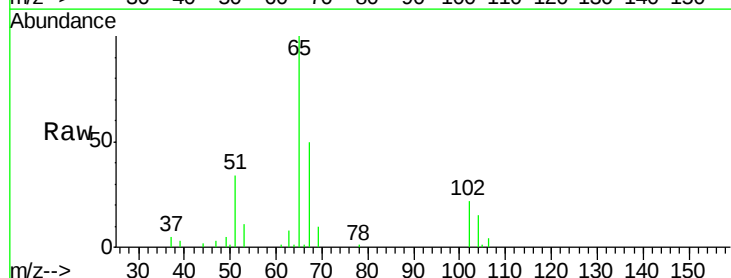


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

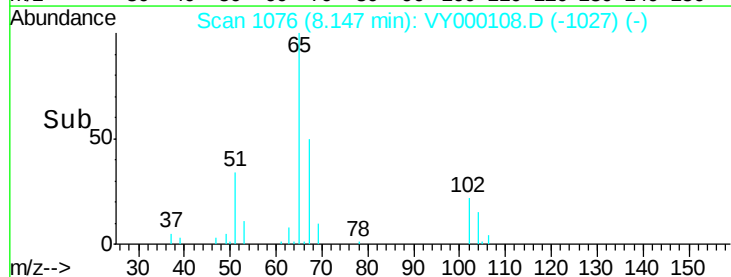
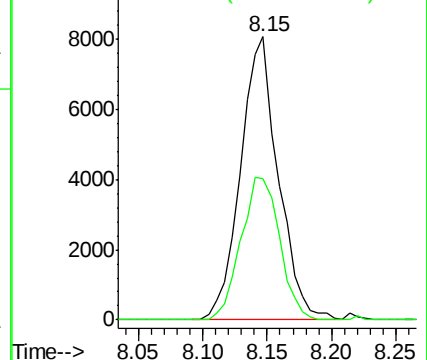


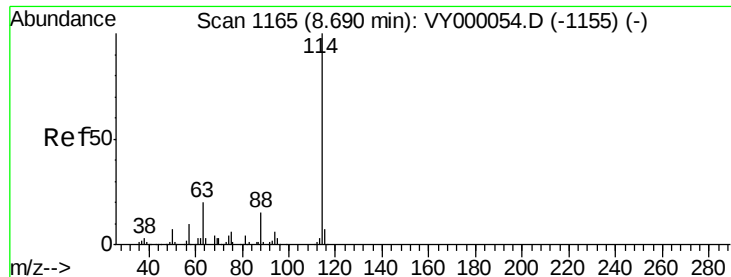
#33
1,2-Dichloroethane-d4
Concen: 52.352 ug/l
RT: 8.15 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VY000108.D
Acq: 20 Sep 2019 15:18

Tgt Ion: 65 Resp: 16324
Ion Ratio Lower Upper
65 100
67 51.5 0.0 111.0



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# 1165

Delta R.T. -0.00 min

Lab File: VY000108.D

Acq: 20 Sep 2019 15:18

Instrument :

MSVOA_Y

ClientSampleId :

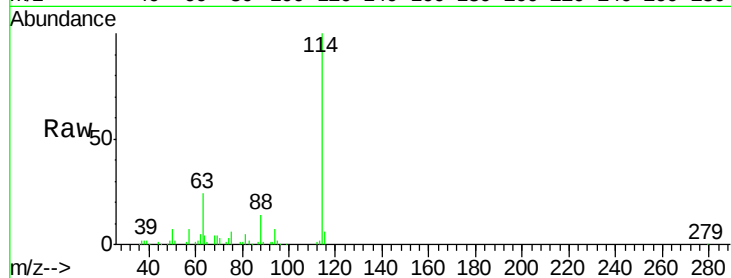
Tot Ion:114 Resp: 51081

Ion Ratio Lower Upper

114 100

63 23.6 0.0 39.4

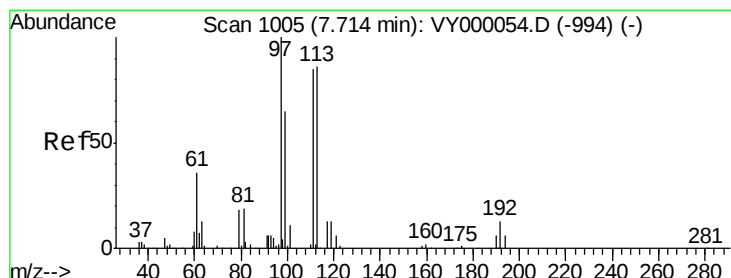
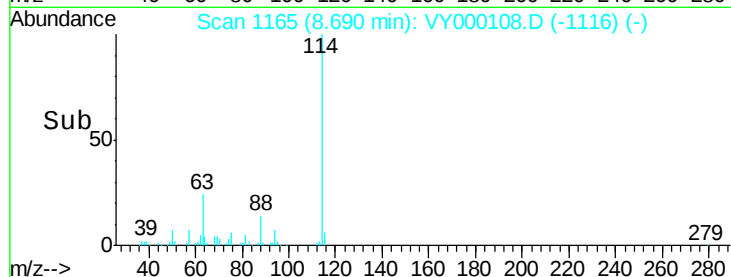
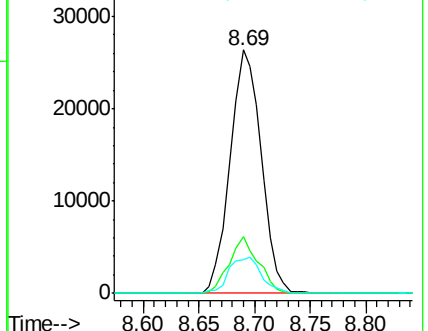
88 13.8 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 47.426 ug/l

RT: 7.73 min Scan# 1007

Delta R.T. 0.01 min

Lab File: VY000108.D

Acq: 20 Sep 2019 15:18

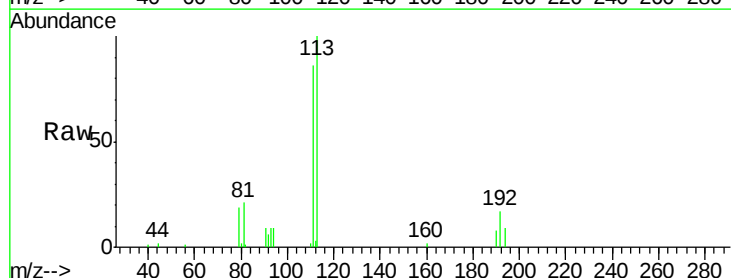
Tgt Ion:113 Resp: 14668

Ion Ratio Lower Upper

113 100

111 102.5 81.7 122.5

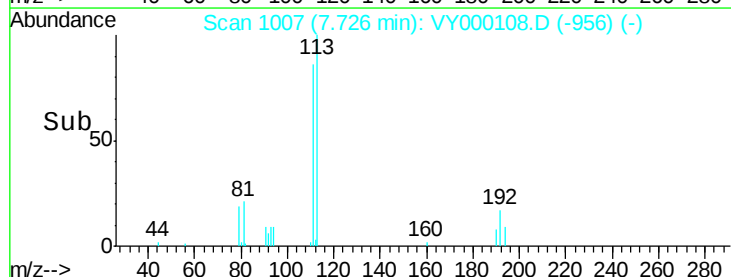
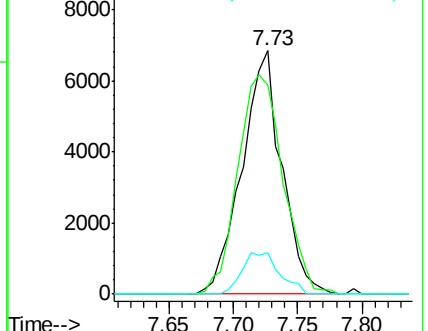
192 16.0 13.4 20.2

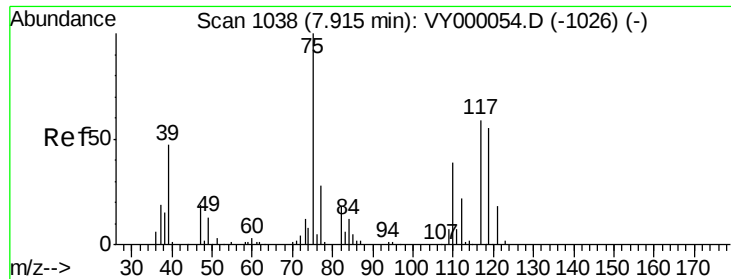


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

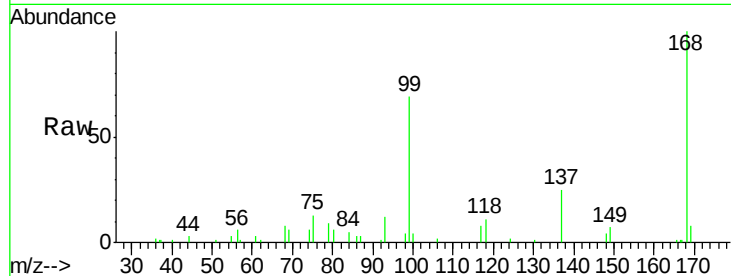




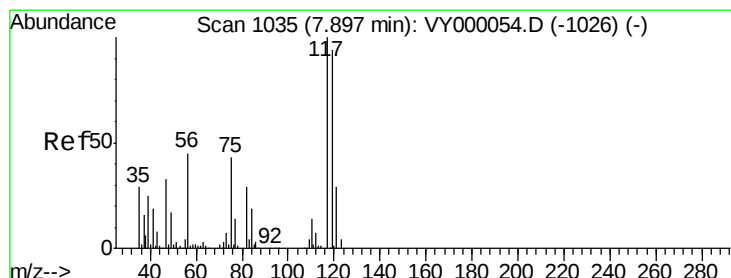
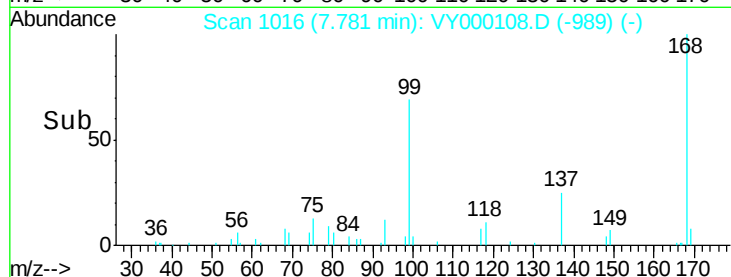
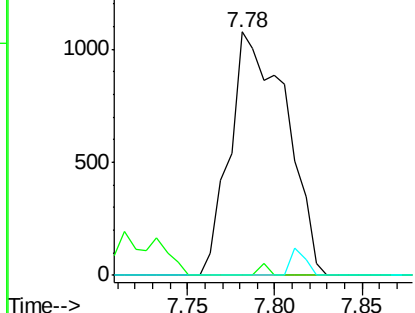
#36
 1,1-Dichloropropene
 Concen: 6.354 ug/l
 RT: 7.78 min Scan# 1016
 Delta R.T. -0.13 min
 Lab File: VY000108.D
 Acq: 20 Sep 2019 15:18

Instrument :
 MSVOA_Y
 ClientSampled :

Tot Ion	75	Resp	2427
Ion Ratio	Lower	Upper	
75	100		
110	0.8	19.6	58.7#
77	0.0	24.3	36.5#

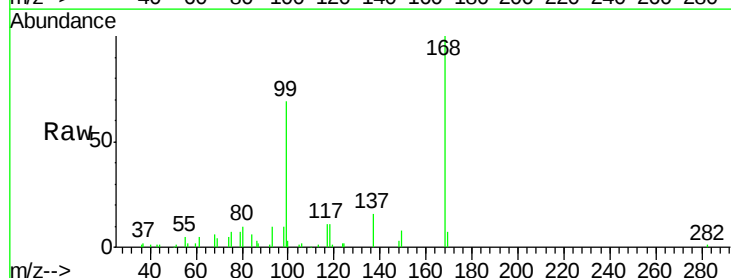


Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): VY0
 Ion 76.90 (76.60 to 77.60): VY0

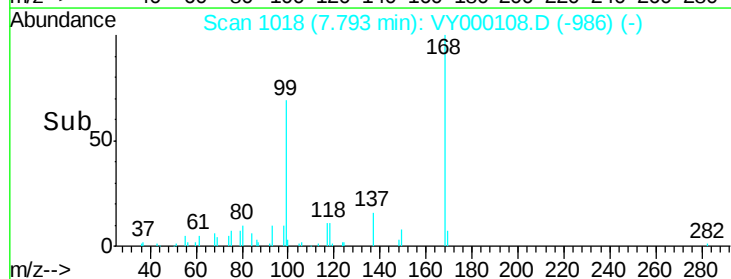
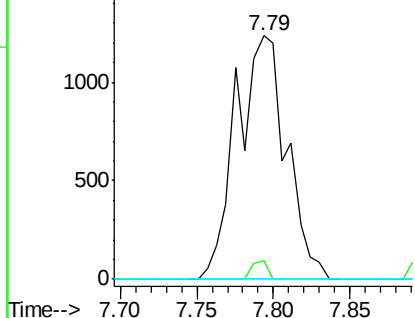


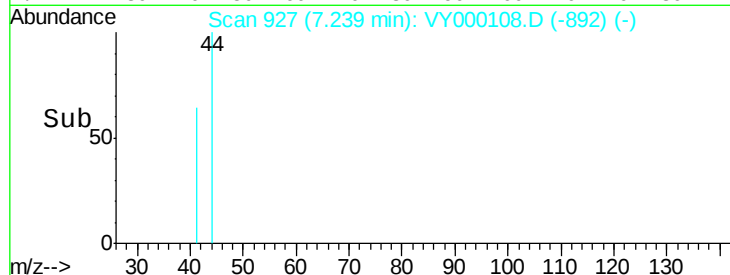
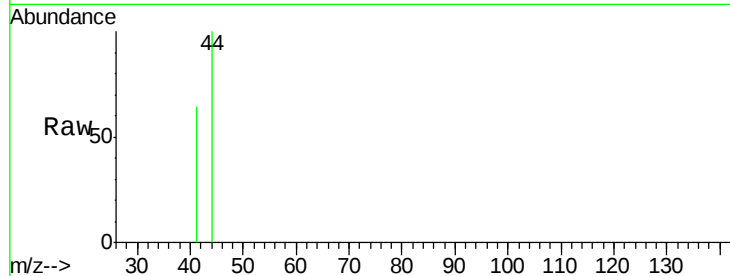
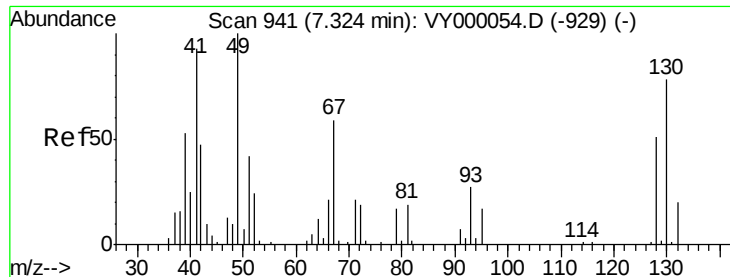
#38
 Carbon Tetrachloride
 Concen: 7.759 ug/l
 RT: 7.79 min Scan# 1018
 Delta R.T. -0.10 min
 Lab File: VY000108.D
 Acq: 20 Sep 2019 15:18

Tgt Ion	117	Resp	2797
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	7.6	75.0	112.6#
121	0.0	22.8	34.2#



Abundance Ion 116.80 (116.50 to 117.50): VY0
 Ion 118.80 (118.50 to 119.50): VY0
 Ion 120.80 (120.50 to 121.50): VY0

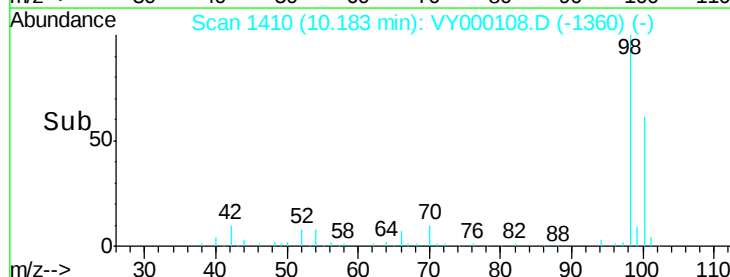
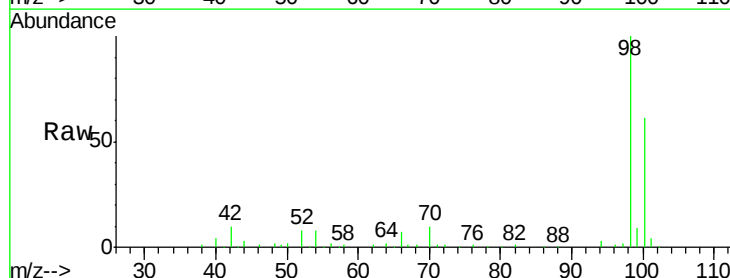
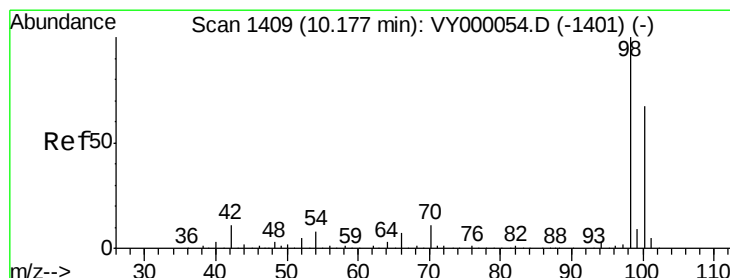
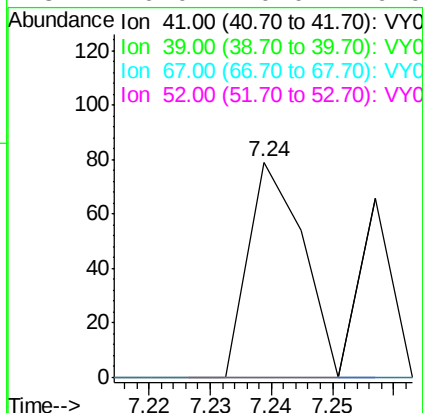




#41
Methacrylonitrile
Concen: 4.535 ug/l
RT: 7.24 min Scan# 927
Delta R.T. -0.09 min
Lab File: VY000108.D
Acq: 20 Sep 2019 15:18

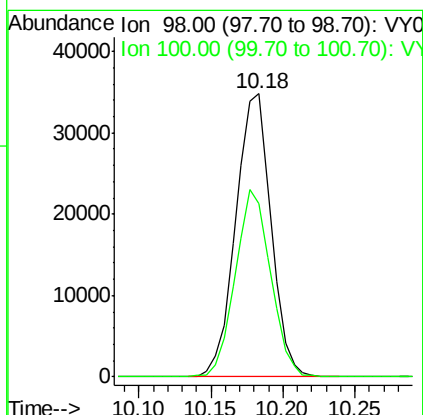
Instrument :
MSVOA_Y
ClientSampleId :

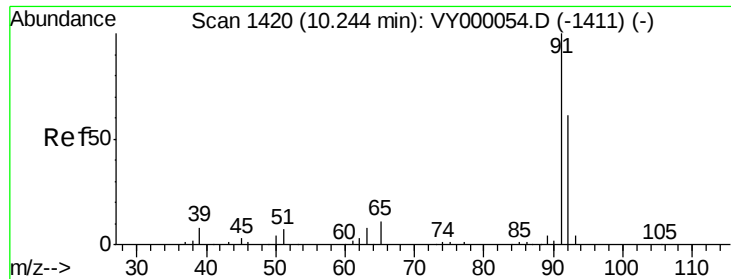
Tot Ion:	41	Resp:	49
Ion	Ratio	Lower	Upper
41	100		
39	0.0	91.8	137.6#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#50
Toluene-d8
Concen: 48.770 ug/l
RT: 10.18 min Scan# 1410
Delta R.T. 0.01 min
Lab File: VY000108.D
Acq: 20 Sep 2019 15:18

Tgt Ion:	98	Resp:	59244
Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.1	79.7





#52

Toluene

Concen: 1.593 ug/l

RT: 10.24 min Scan# 1419

Delta R.T. -0.01 min

Lab File: VY000108.D

Acq: 20 Sep 2019 15:18

Instrument :

MSVOA_Y

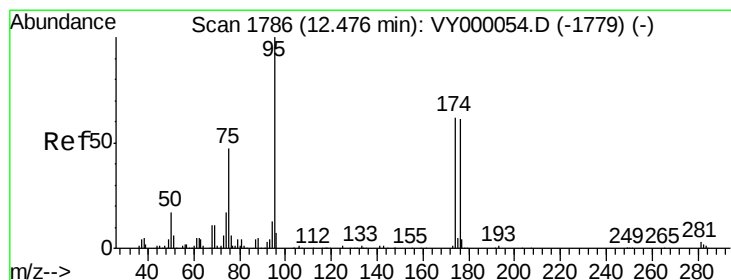
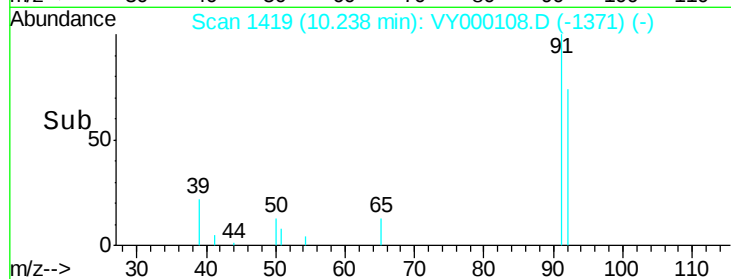
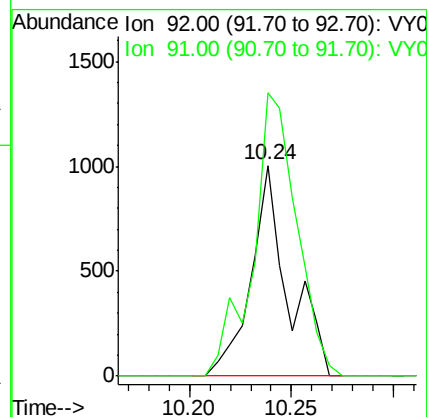
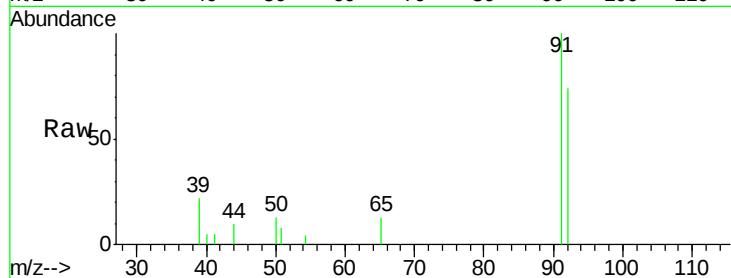
ClientSampled :

Tot Ion: 92 Resp: 1277

Ion Ratio Lower Upper

92 100

91 158.5 135.8 203.6



#62

4-Bromofluorobenzene

Concen: 34.041 ug/l

RT: 12.48 min Scan# 1787

Delta R.T. 0.01 min

Lab File: VY000108.D

Acq: 20 Sep 2019 15:18

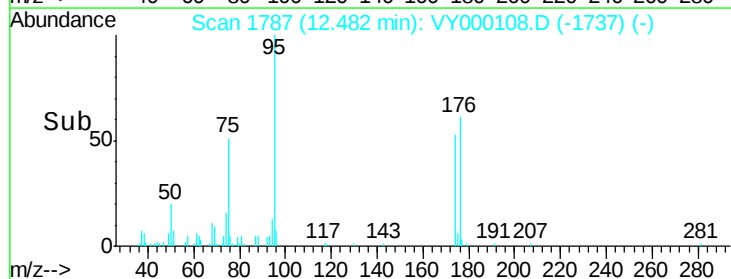
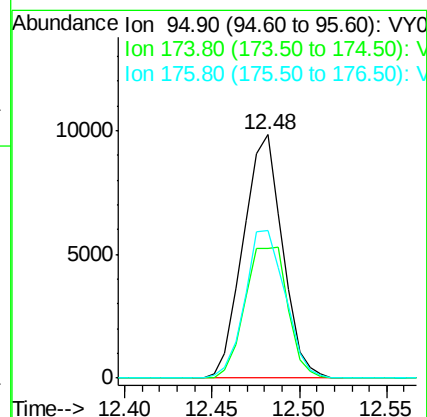
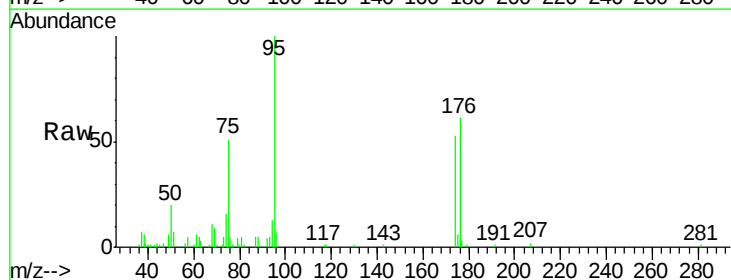
Tgt Ion: 95 Resp: 15353

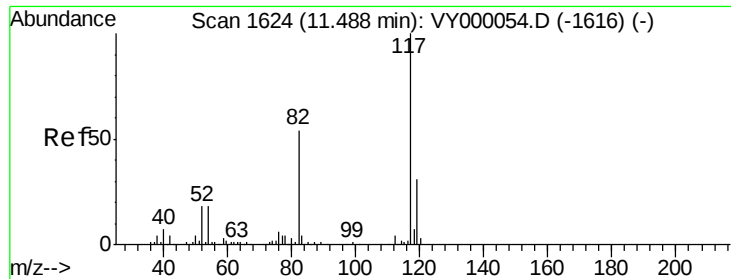
Ion Ratio Lower Upper

95 100

174 58.7 0.0 137.2

176 62.4 0.0 135.0

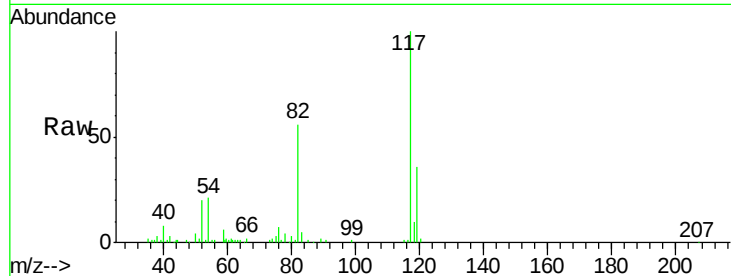




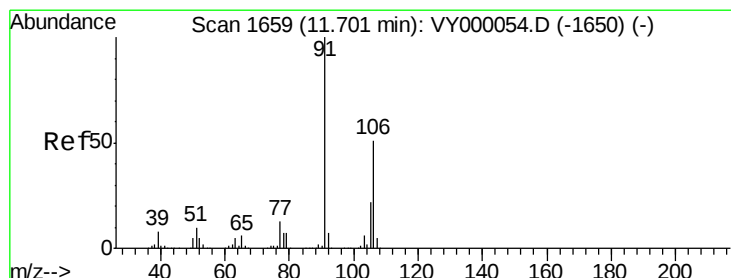
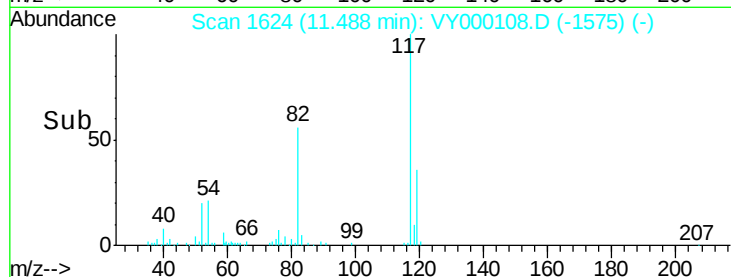
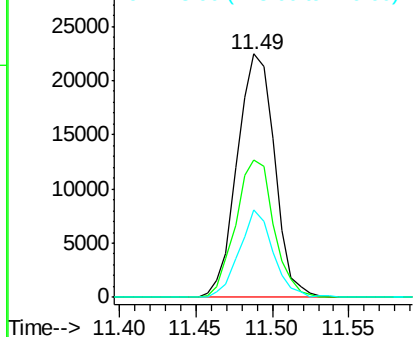
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1624
Delta R.T. -0.00 min
Lab File: VY000108.D
Acq: 20 Sep 2019 15:18

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 38202
Ion Ratio Lower Upper
117 100
82 56.5 43.5 65.3
119 35.8 24.6 36.8

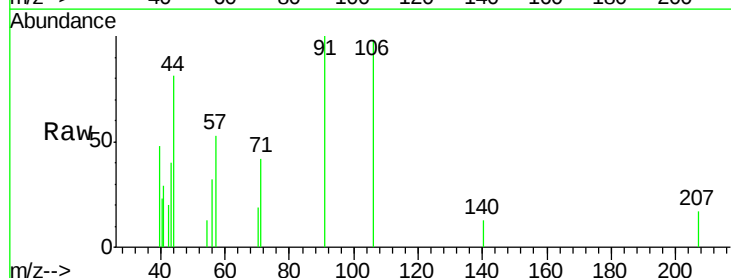


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

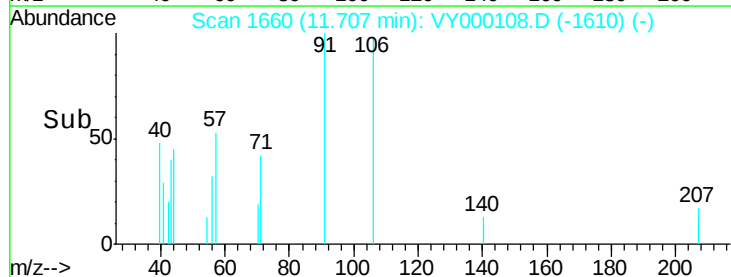
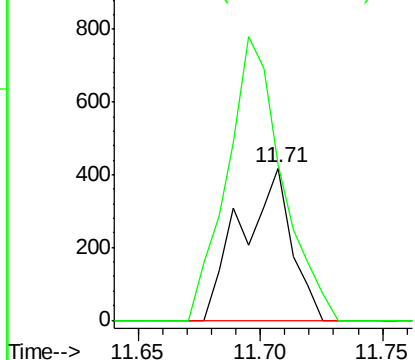


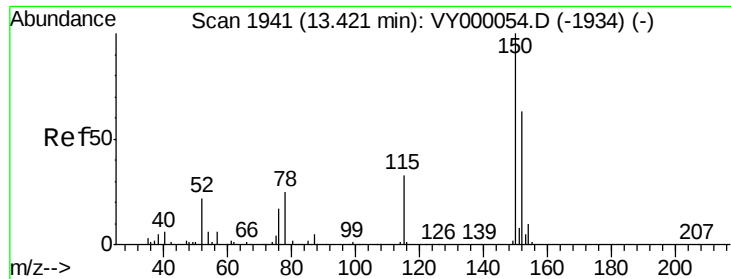
#68
m/p-Xylenes
Concen: 1.177 ug/l
RT: 11.71 min Scan# 1660
Delta R.T. 0.01 min
Lab File: VY000108.D
Acq: 20 Sep 2019 15:18

Tgt Ion:106 Resp: 604
Ion Ratio Lower Upper
106 100
91 200.2 154.5 231.7



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# 1941

Delta R.T. -0.00 min

Lab File: VY000108.D

Acq: 20 Sep 2019 15:18

Instrument :

MSVOA_Y

ClientSampleId :

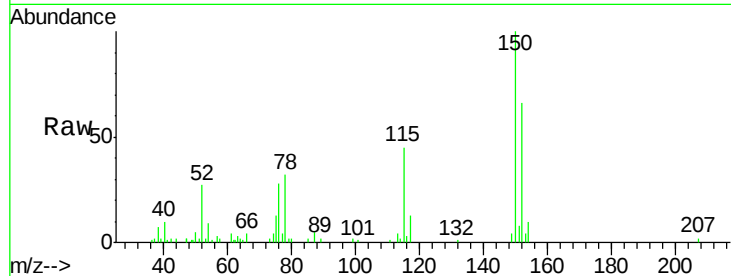
Tot Ion:152 Resp: 11246

Ion Ratio Lower Upper

152 100

115 62.3 30.7 92.1

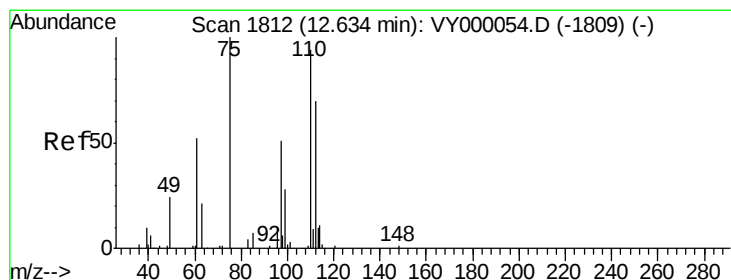
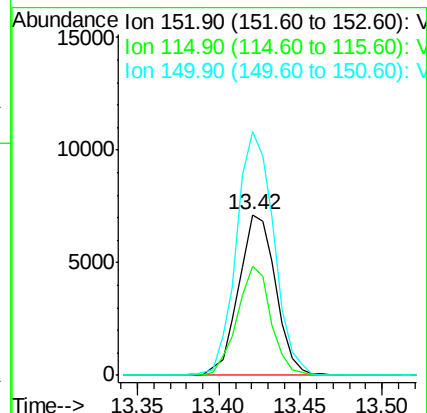
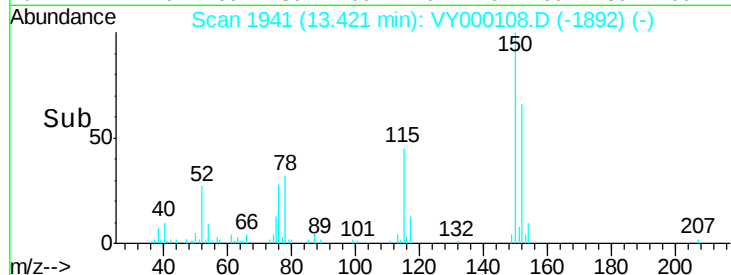
150 153.1 0.0 351.6



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



#76

1,2,3-Trichloropropane

Concen: 50.250 ug/l

RT: 12.48 min Scan# 1787

Delta R.T. -0.15 min

Lab File: VY000108.D

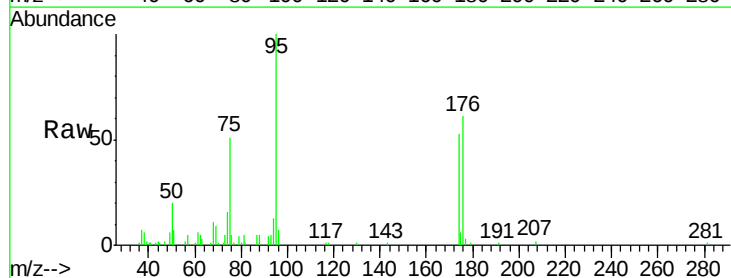
Acq: 20 Sep 2019 15:18

Tgt Ion: 75 Resp: 7951

Ion Ratio Lower Upper

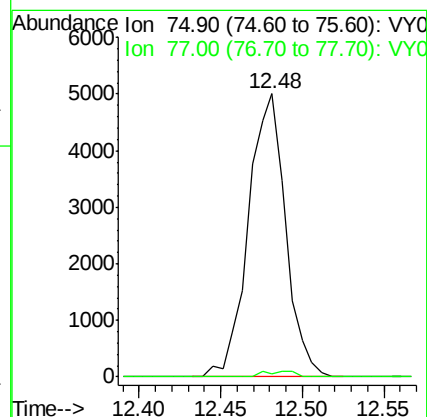
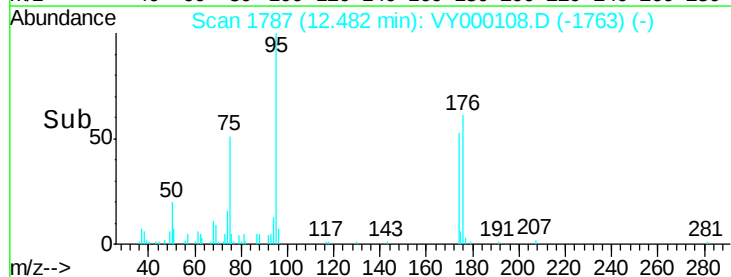
75 100

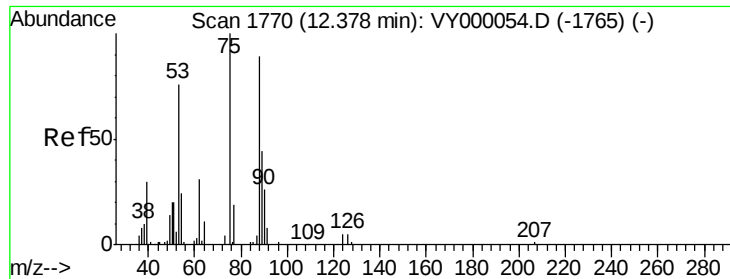
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 96.642 ug/l

RT: 12.48 min Scan# 1787

Delta R.T. 0.10 min

Lab File: VY000108.D

Acq: 20 Sep 2019 15:18

Instrument :

MSVOA_Y

ClientSampleId :

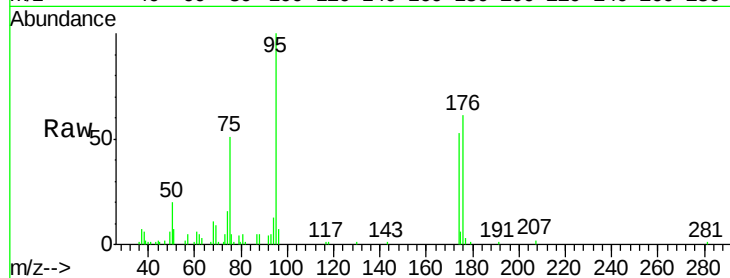
Tot Ion: 75 Resp: 7951

Ion Ratio Lower Upper

75 100

53 0.0 60.9 91.3#

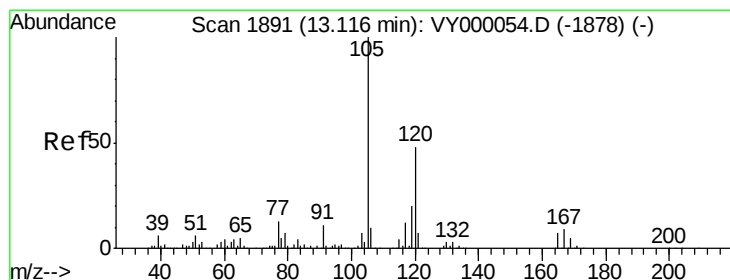
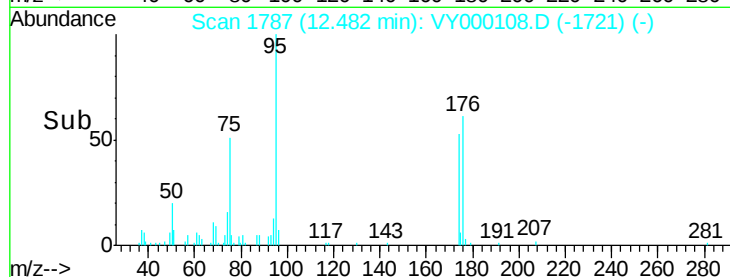
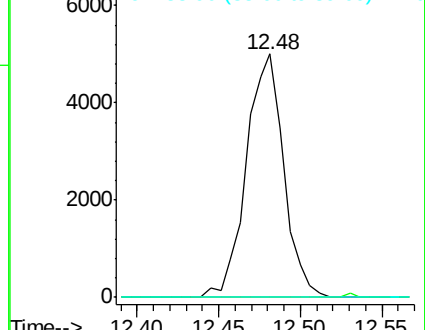
89 0.0 35.3 52.9#



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: 1.008 ug/l

RT: 13.11 min Scan# 1890

Delta R.T. -0.01 min

Lab File: VY000108.D

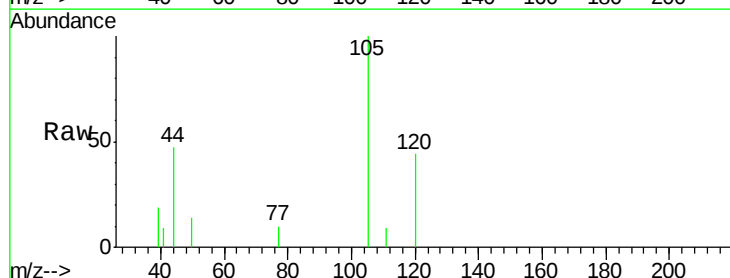
Acq: 20 Sep 2019 15:18

Tgt Ion: 105 Resp: 746

Ion Ratio Lower Upper

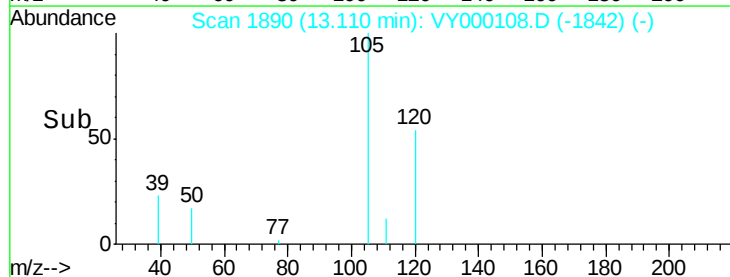
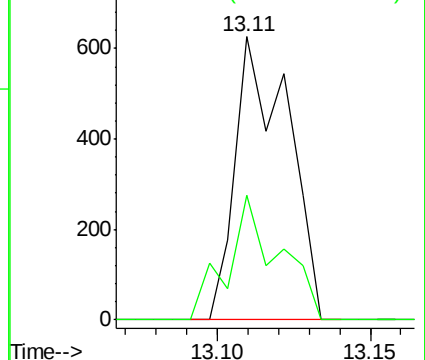
105 100

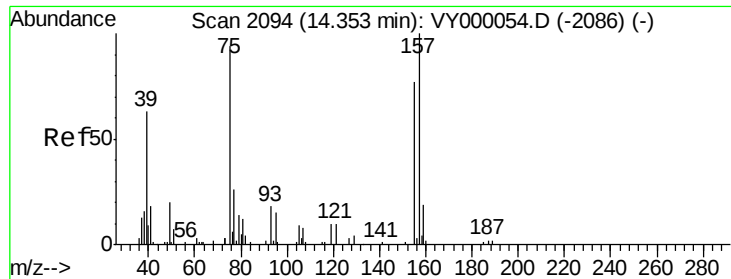
120 42.5 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 3.238 ug/l

RT: 14.37 min Scan# 2097

Delta R.T. 0.02 min

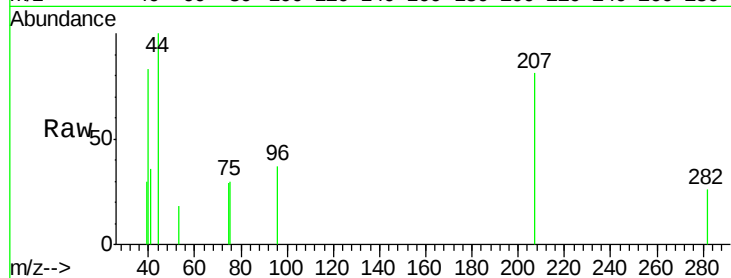
Lab File: VY000108.D

Acq: 20 Sep 2019 15:18

Instrument :

MSVOA_Y

ClientSampleId :



Tot Ion: 75 Resp: 123

Ion Ratio Lower Upper

75 100

155 0.0 40.6 121.7#

157 0.0 52.9 158.8#

