

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY022120\
 Data File : VY001753.D
 Acq On : 21 Feb 2020 19:09
 Operator : SY/MD
 Sample : L1650-03
 Misc : 8.52G/5ML/MSVOA Y/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 22 03:44:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y021720S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 17 12:19:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	153320	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	291508	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	261573	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	113972	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.17	65	94523	57.32	ug/l	0.00
Spiked Amount			Recovery	=	114.64%	
35) Dibromofluoromethane	7.75	113	84902	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
50) Toluene-d8	10.19	98	354463	54.19	ug/l	0.00
Spiked Amount			Recovery	=	108.38%	
62) 4-Bromofluorobenzene	12.49	95	121508	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	

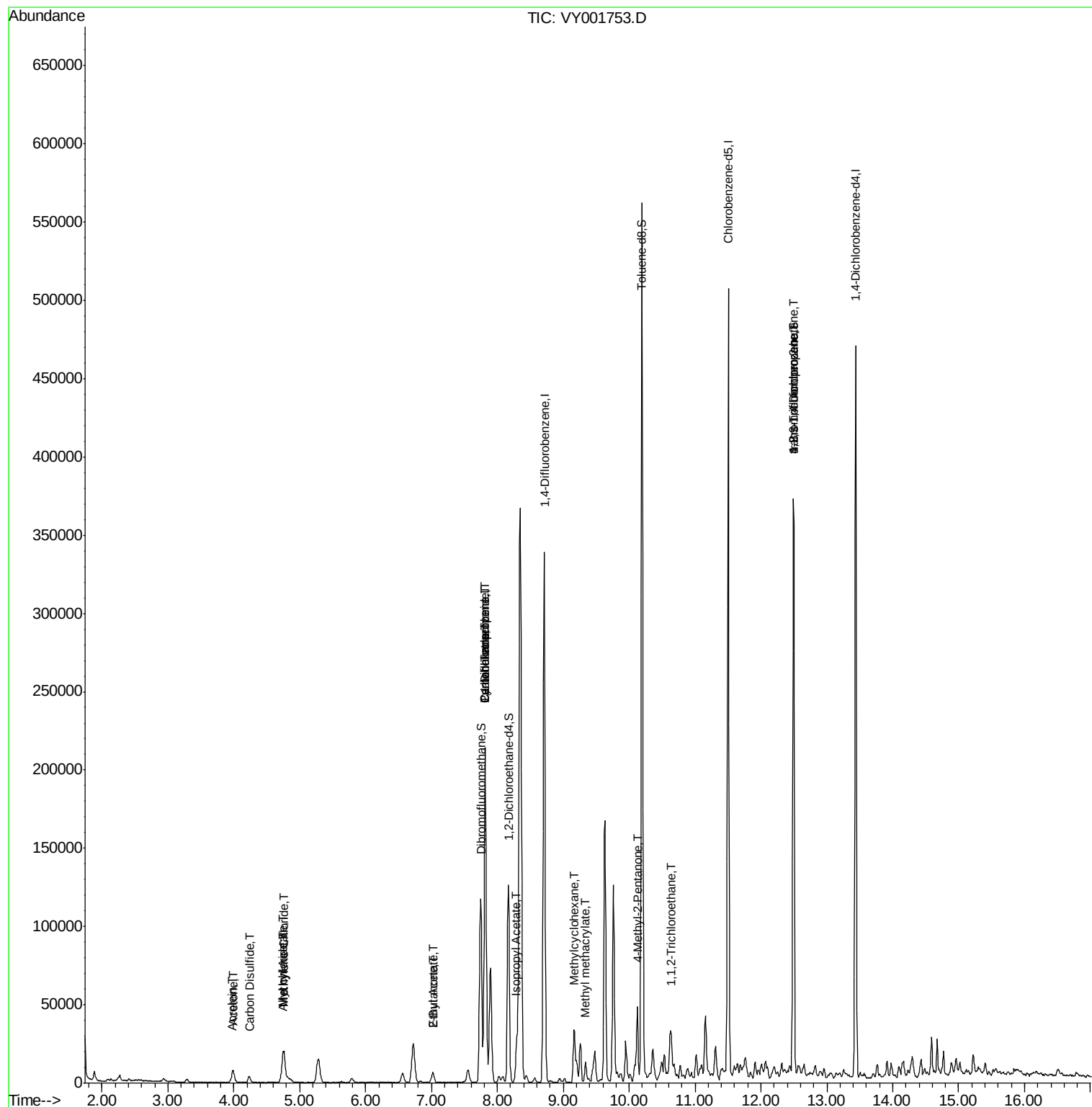
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.99	59	136	Below Cal	#	74
13) Acrolein	3.96	56	327	1.963	ug/l	94
14) Allyl chloride	4.74	41	4900	1.655	ug/l #	27
16) Acetone	3.99	43	12957	22.706	ug/l #	86
17) Carbon Disulfide	4.24	76	8380	1.509	ug/l	96
18) Methyl Acetate	4.75	43	11353	9.136	ug/l #	51
20) Methylene Chloride	4.76	84	9613	4.743	ug/l	95
25) 2-Butanone	7.02	43	3273	4.222	ug/l #	88
31) Cyclohexane	7.82	56	4179	1.206	ug/l #	11
36) 1,1-Dichloropropene	7.81	75	12991	4.666	ug/l #	49
37) Ethyl Acetate	7.02	43	3273	1.969	ug/l #	6
38) Carbon Tetrachloride	7.82	117	15760	6.444	ug/l #	17
39) Methylcyclohexane	9.16	83	6968	1.886	ug/l #	34
43) Isopropyl Acetate	8.28	43	6503	2.062	ug/l #	53
48) Methyl methacrylate	9.34	41	3368	2.362	ug/l #	30
51) 4-Methyl-2-Pentanone	10.13	43	5850	3.611	ug/l #	74
55) 1,1,2-Trichloroethane	10.63	97	9322	5.893	ug/l #	23
58) 2-Chloroethyl Vinyl ether	9.76	63	114	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.49	75	60737	46.456	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	60737	88.135	ug/l #	17

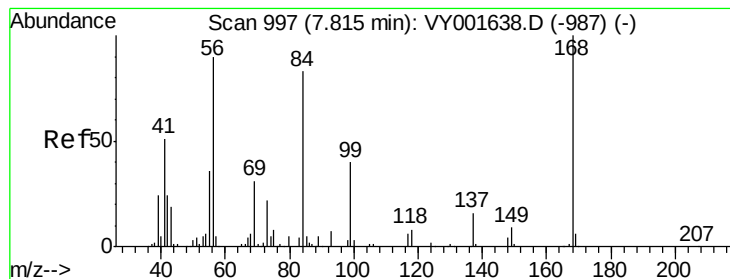
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY001753.D

Acq: 21 Feb 2020 19:09

Instrument :

MSVOA_Y

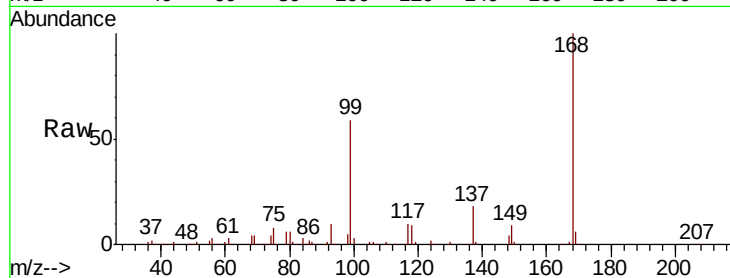
ClientSampled :

Tot Ion:168 Resp: 153320

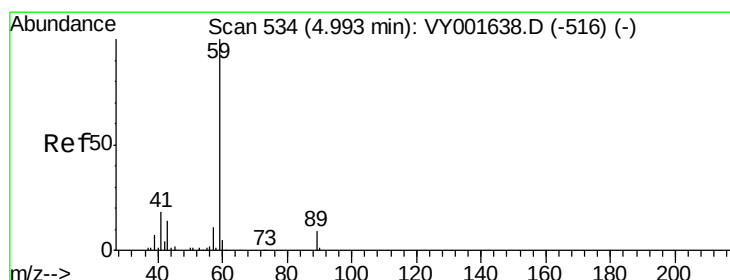
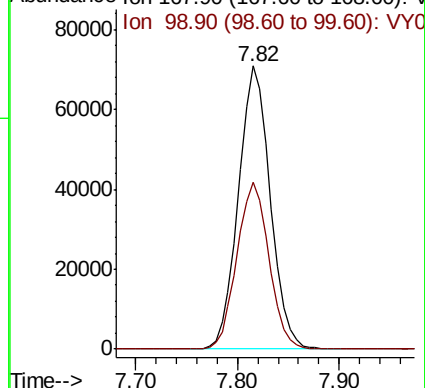
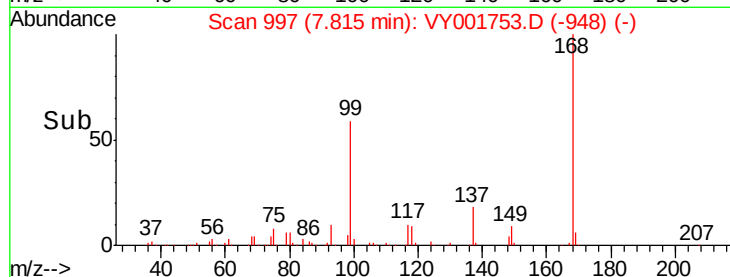
Ion Ratio Lower Upper

168 100

99 58.9 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VY001753.D (-948) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.99 min Scan# 533

Delta R.T. -0.01 min

Lab File: VY001753.D

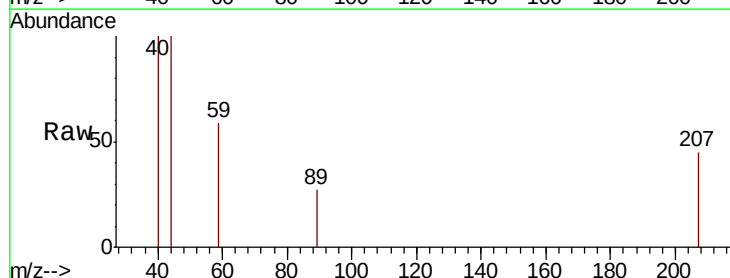
Acq: 21 Feb 2020 19:09

Tgt Ion: 59 Resp: 136

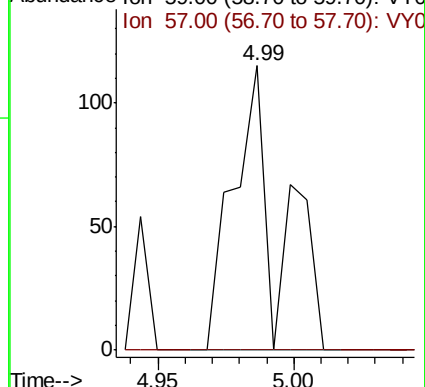
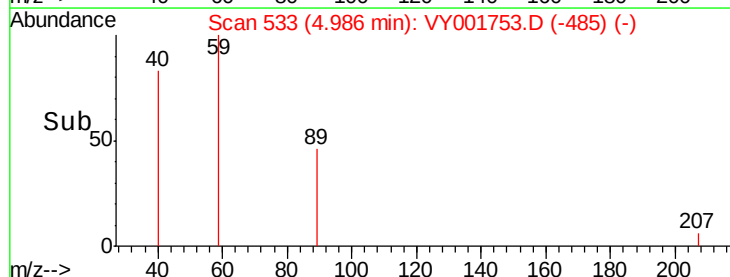
Ion Ratio Lower Upper

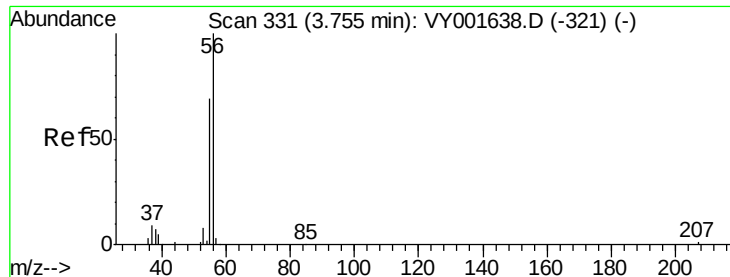
59 100

57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001753.D (-485) (-)





#13

Acrolein

Concen: 1.963 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.21 min

Lab File: VY001753.D

Acq: 21 Feb 2020 19:09

Instrument :

MSVOA_Y

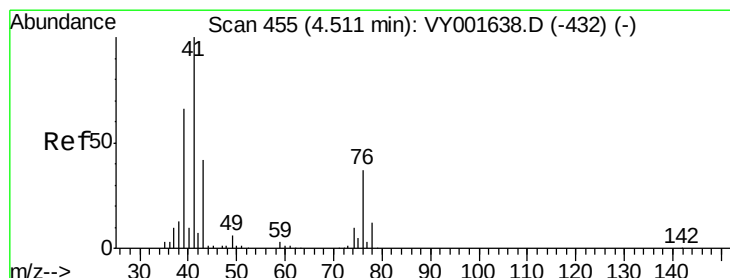
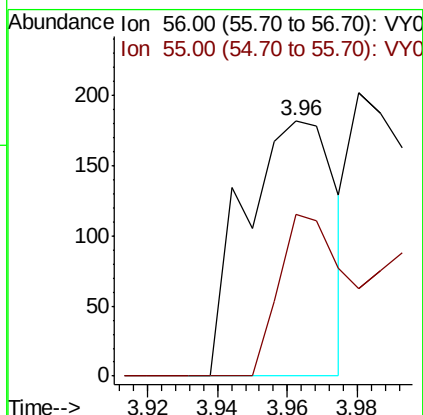
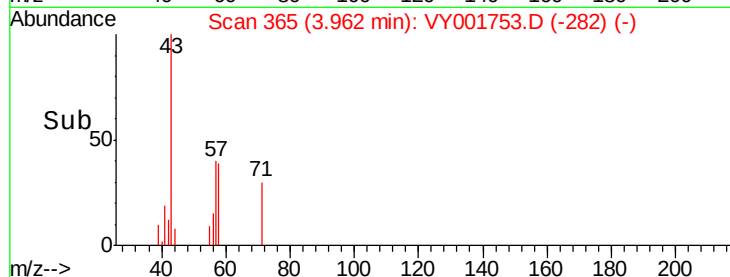
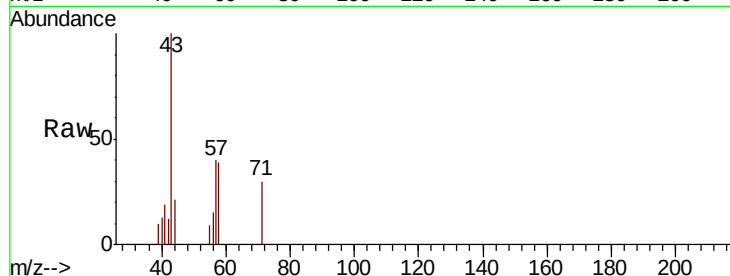
ClientSampleId :

Tot Ion: 56 Resp: 327

Ion Ratio Lower Upper

56 100

55 65.1 56.1 84.1



#14

Allyl chloride

Concen: 1.655 ug/l

RT: 4.74 min Scan# 492

Delta R.T. 0.23 min

Lab File: VY001753.D

Acq: 21 Feb 2020 19:09

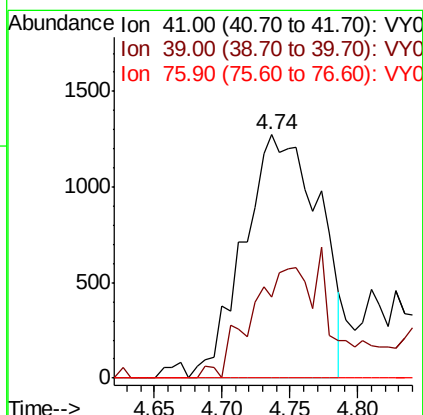
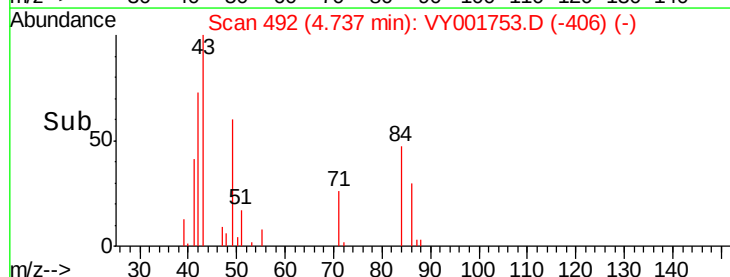
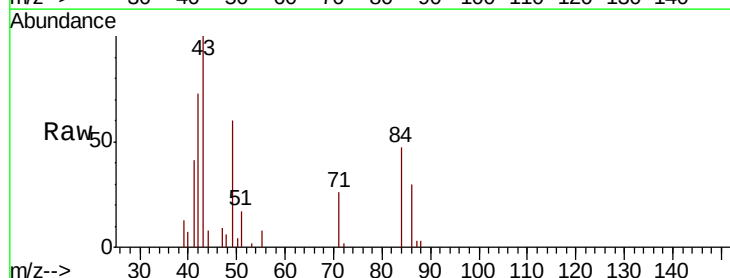
Tgt Ion: 41 Resp: 4900

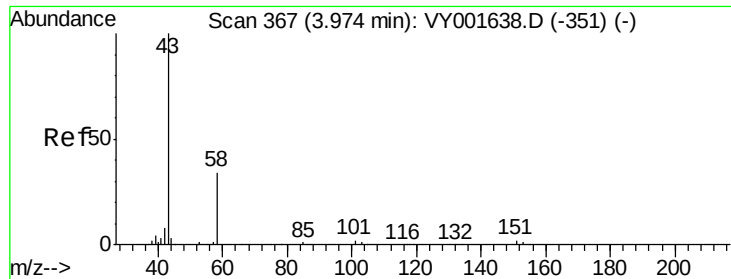
Ion Ratio Lower Upper

41 100

39 0.0 49.4 74.0#

76 0.0 29.0 43.6#





#16

Acetone

Concen: 22.706 ug/l

RT: 3.99 min Scan# 370

Delta R.T. 0.02 min

Lab File: VY001753.D

Acq: 21 Feb 2020 19:09

Instrument :

MSVOA_Y

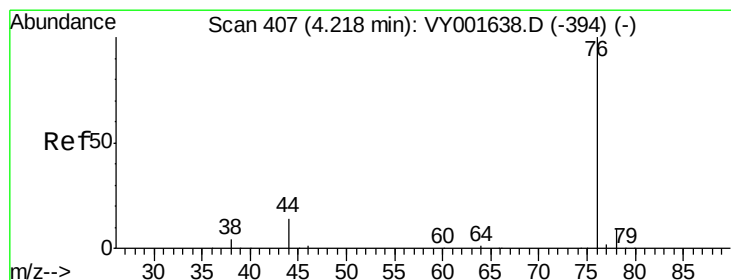
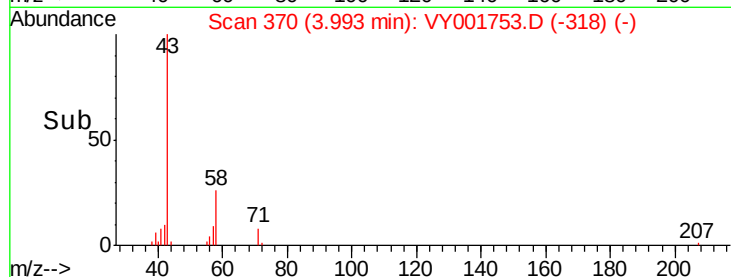
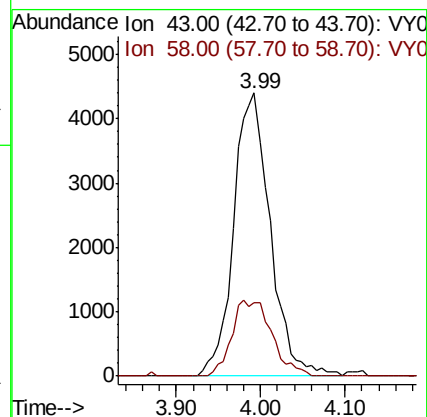
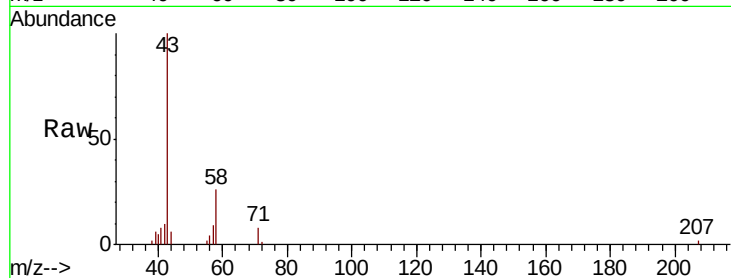
ClientSampleId :

Tot Ion: 43 Resp: 12957

Ion Ratio Lower Upper

43 100

58 25.8 27.3 40.9#



#17

Carbon Disulfide

Concen: 1.509 ug/l

RT: 4.24 min Scan# 410

Delta R.T. 0.02 min

Lab File: VY001753.D

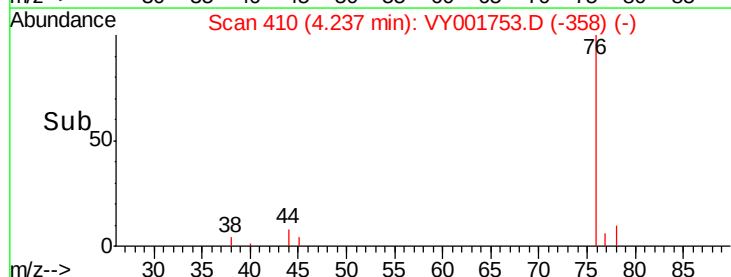
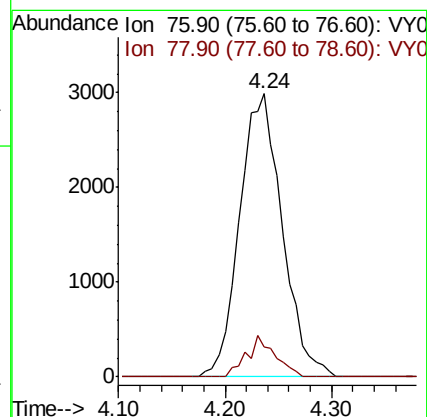
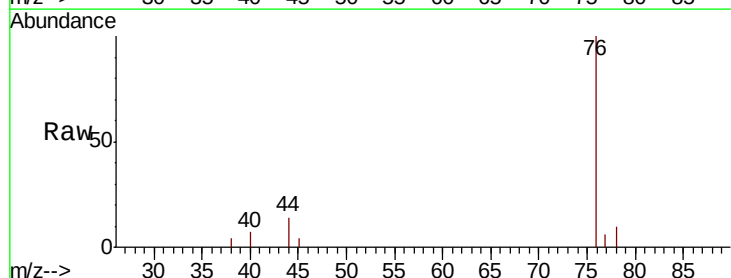
Acq: 21 Feb 2020 19:09

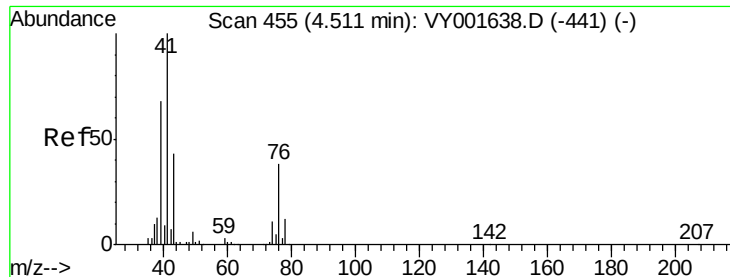
Tgt Ion: 76 Resp: 8380

Ion Ratio Lower Upper

76 100

78 10.4 7.3 10.9

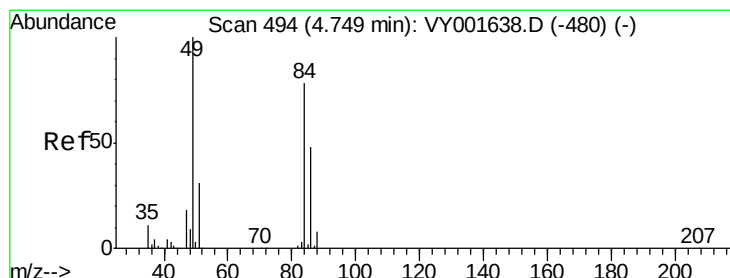
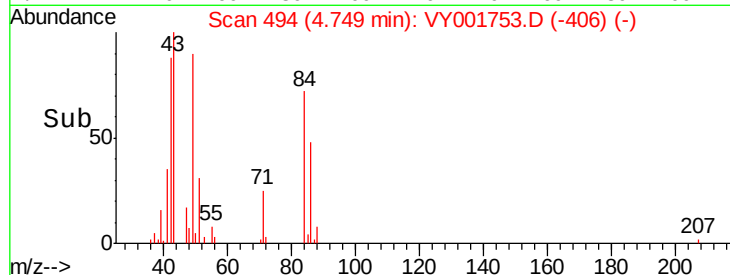
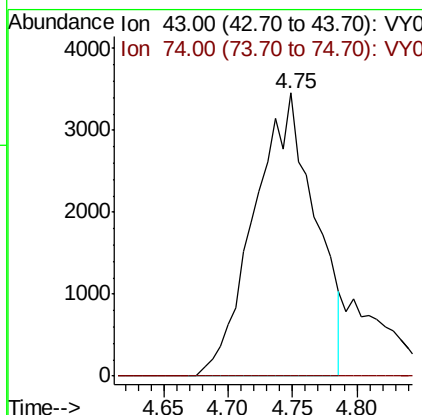
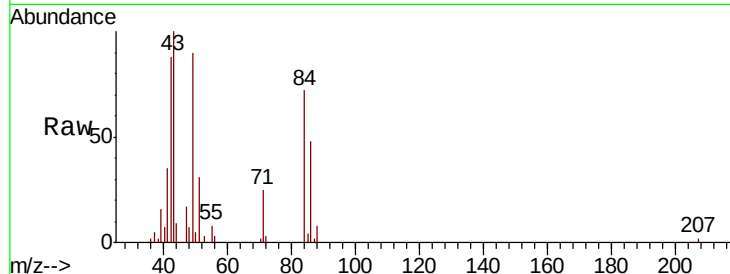




#18
Methyl Acetate
Concen: 9.136 ug/l
RT: 4.75 min Scan# 494
Delta R.T. 0.24 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

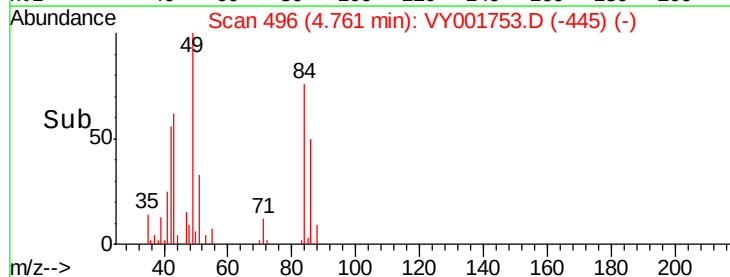
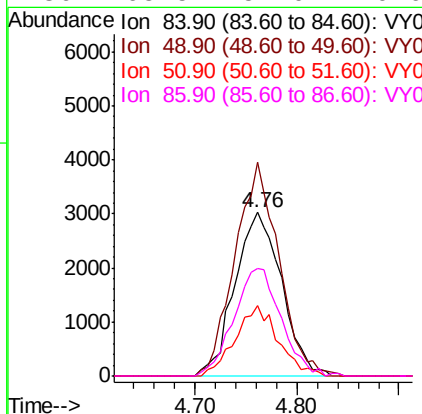
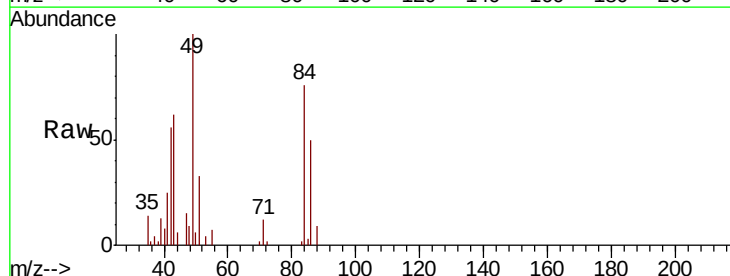
Instrument :
MSVOA_Y
ClientSampleId :

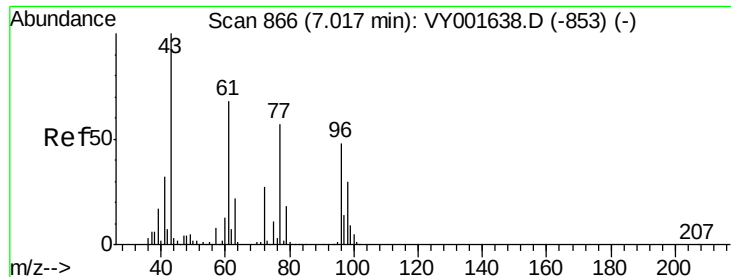
Tot Ion: 43 Resp: 11353
Ion Ratio Lower Upper
43 100
74 0.0 19.1 28.7#



#20
Methylene Chloride
Concen: 4.743 ug/l
RT: 4.76 min Scan# 496
Delta R.T. 0.01 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

Tgt Ion: 84 Resp: 9613
Ion Ratio Lower Upper
84 100
49 130.8 99.2 148.8
51 43.3 31.5 47.3
86 65.5 51.0 76.6





#25

2-Butanone

Concen: 4.222 ug/l

RT: 7.02 min Scan# 866

Delta R.T. 0.00 min

Lab File: VY001753.D

Acq: 21 Feb 2020 19:09

Instrument :

MSVOA_Y

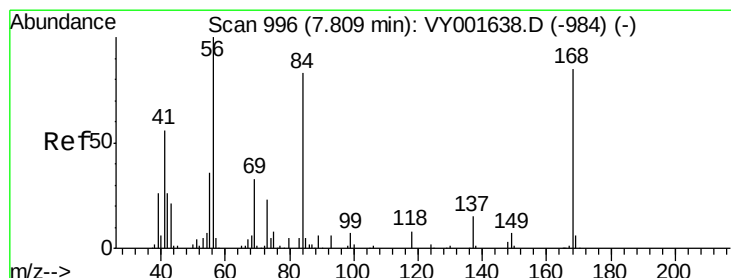
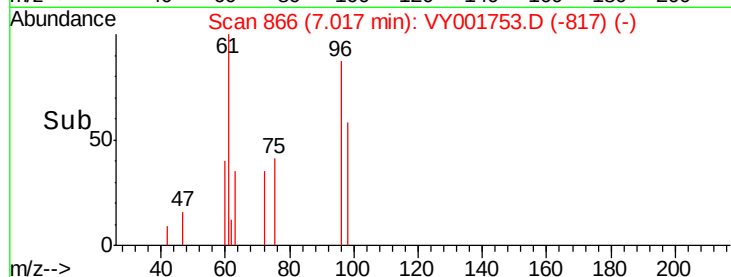
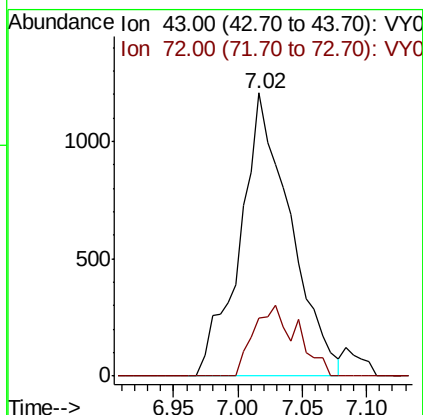
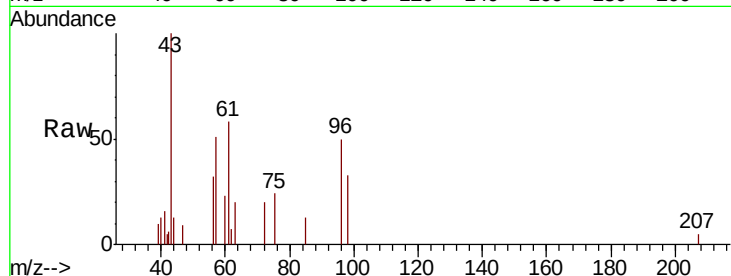
ClientSampled :

Tot Ion: 43 Resp: 3273

Ion Ratio Lower Upper

43 100

72 20.4 21.2 31.8#



#31

Cyclohexane

Concen: 1.206 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY001753.D

Acq: 21 Feb 2020 19:09

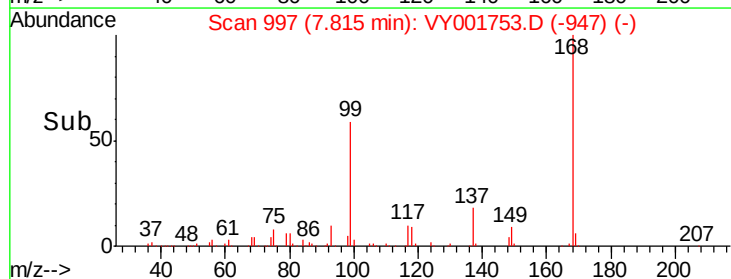
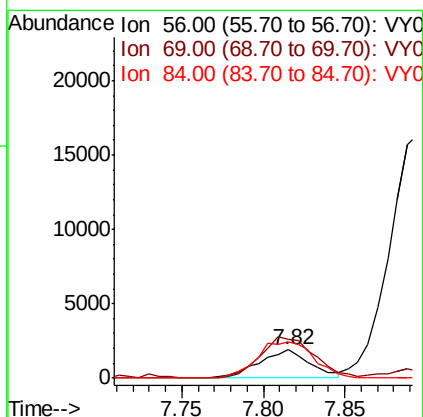
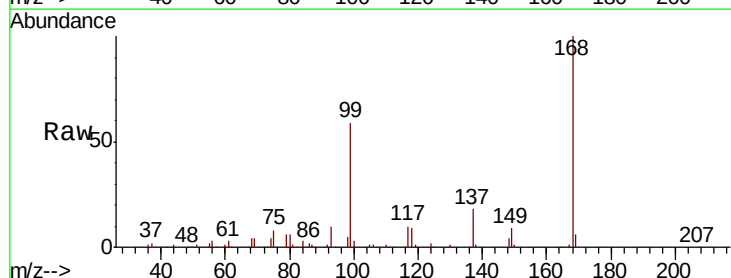
Tgt Ion: 56 Resp: 4179

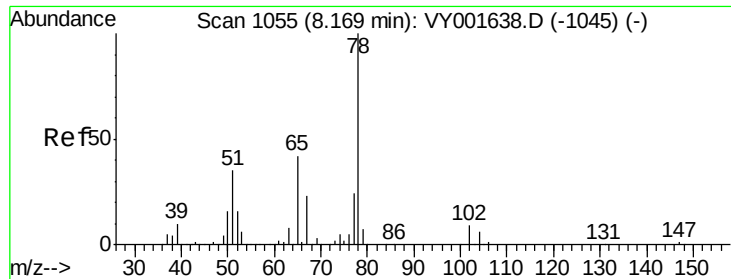
Ion Ratio Lower Upper

56 100

69 139.3 25.1 37.7#

84 127.4 66.9 100.3#

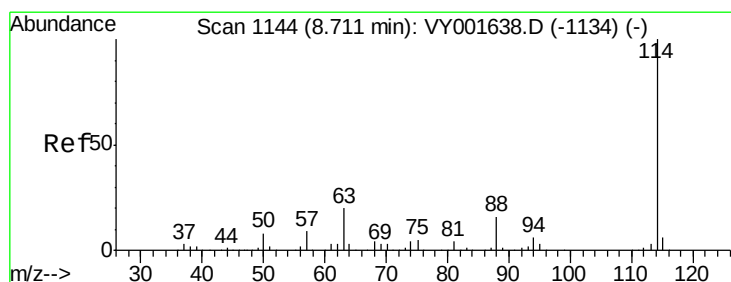
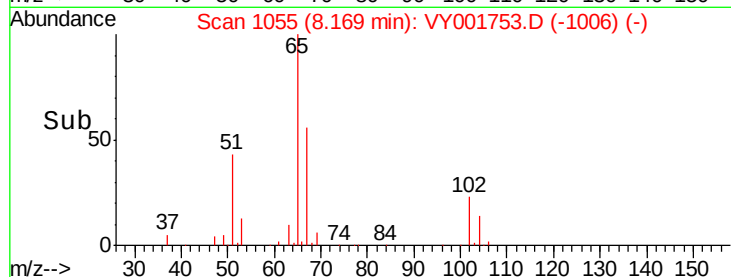
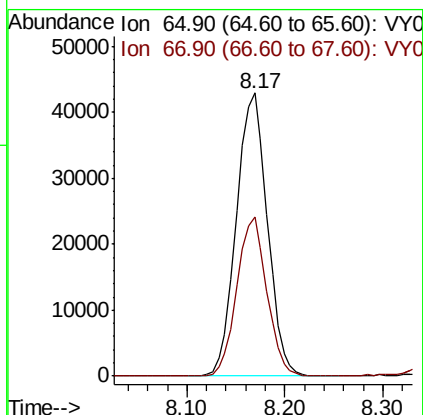
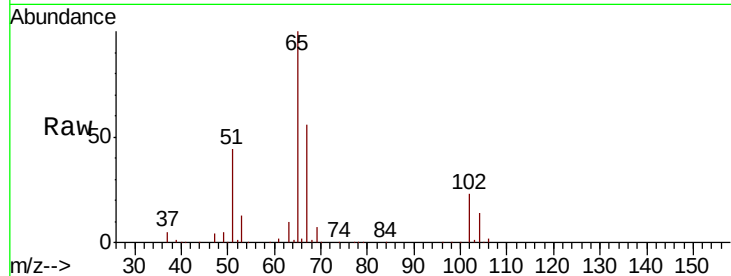




#33
 1,2-Dichloroethane-d4
 Concen: 57.315 ug/l
 RT: 8.17 min Scan# 1055
 Delta R.T. 0.00 min
 Lab File: VY001753.D
 Acq: 21 Feb 2020 19:09

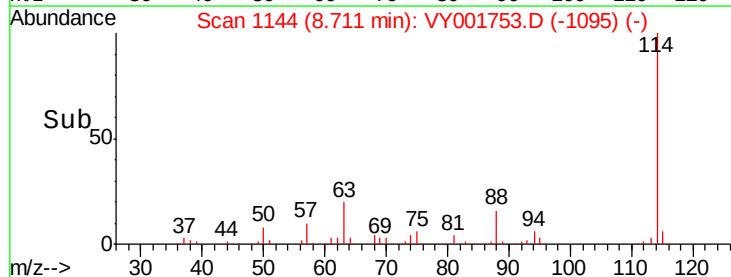
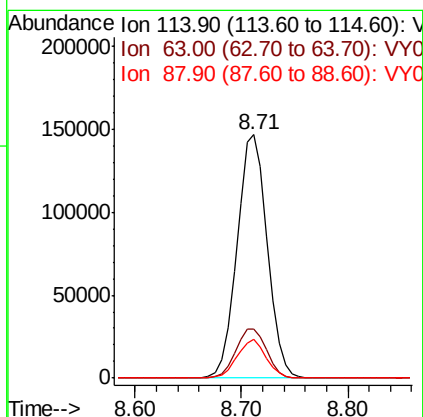
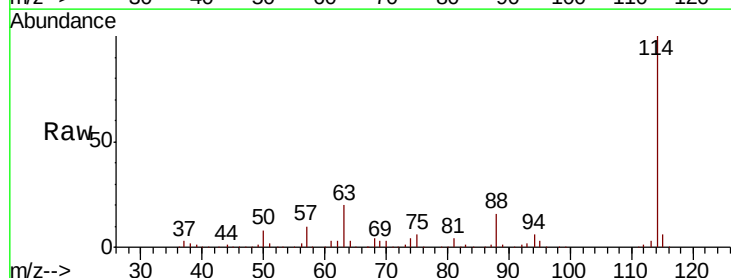
Instrument :
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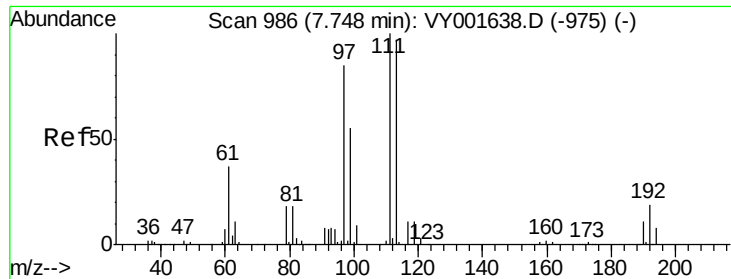
Tot Ion: 65 Resp: 94523
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VY001753.D
 Acq: 21 Feb 2020 19:09

Tgt Ion: 114 Resp: 291508
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.4
 88 15.9 0.0 32.8

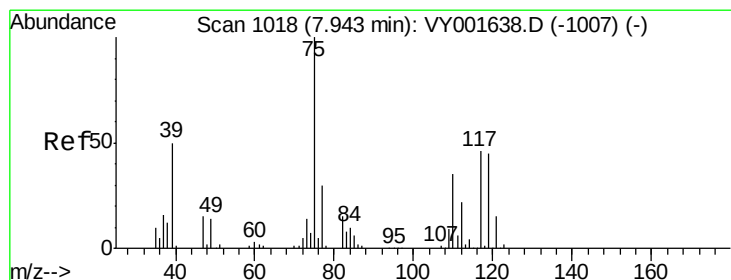
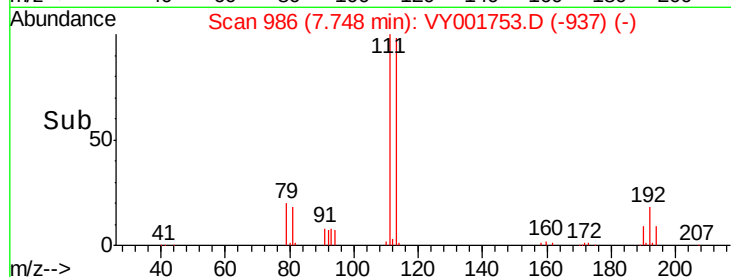
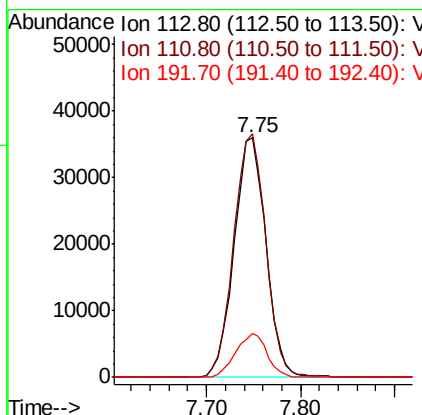
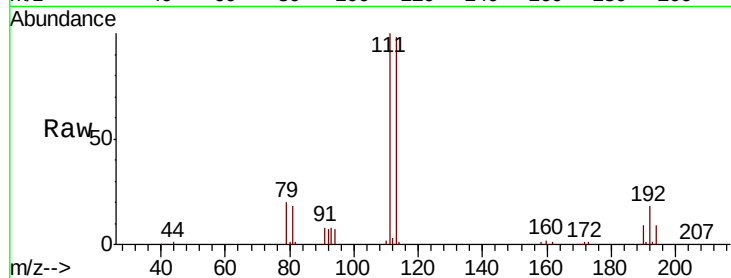




#35
 Dibromofluoromethane
 Concen: 50.851 ug/l
 RT: 7.75 min Scan# 986
 Delta R.T. 0.00 min
 Lab File: VY001753.D
 Acq: 21 Feb 2020 19:09

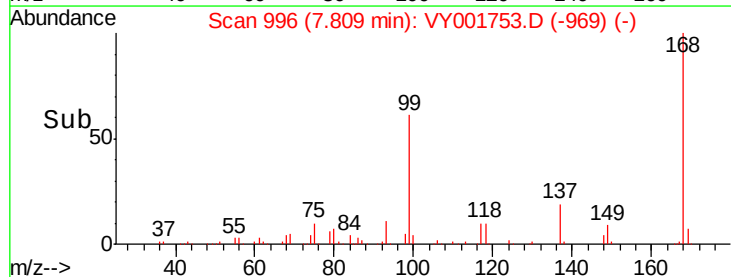
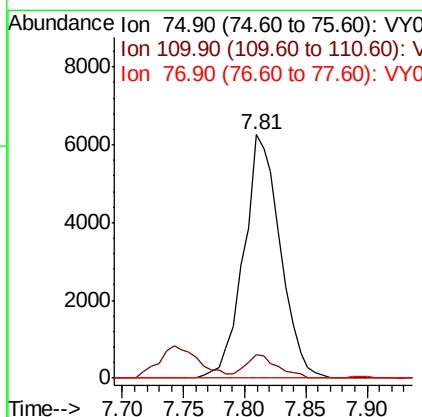
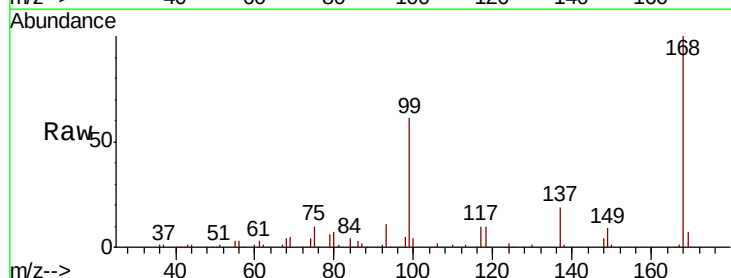
Instrument :
 MSVOA_Y
 ClientSampleId :

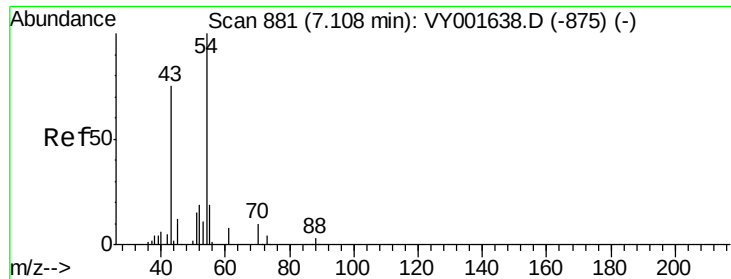
Tot Ion:113 Resp: 84902
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.9 122.9
 192 18.0 14.3 21.5



#36
 1,1-Dichloropropene
 Concen: 4.666 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.13 min
 Lab File: VY001753.D
 Acq: 21 Feb 2020 19:09

Tgt Ion: 75 Resp: 12991
 Ion Ratio Lower Upper
 75 100
 110 8.2 17.2 51.6#
 77 0.0 24.8 37.2#

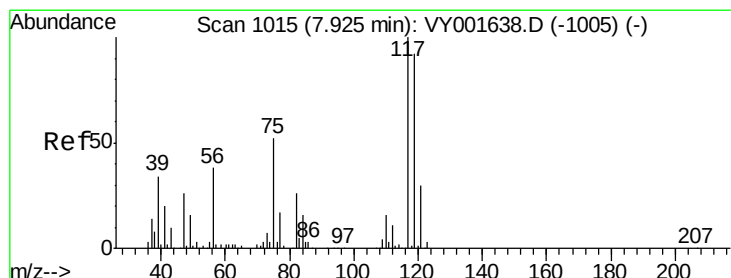
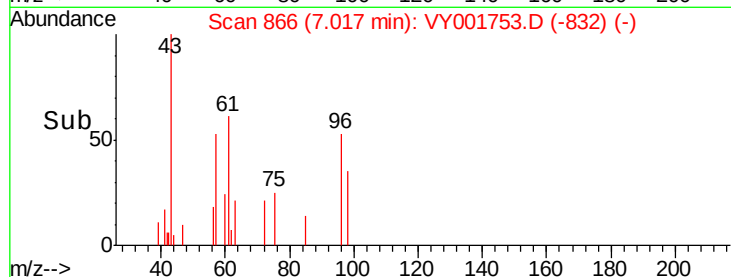
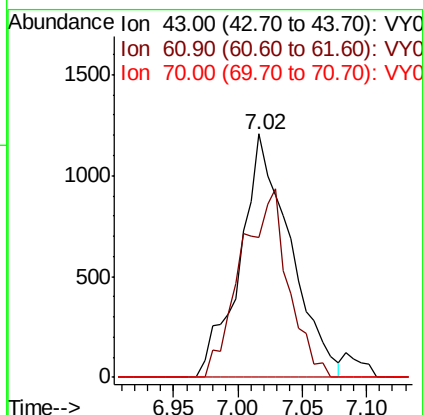
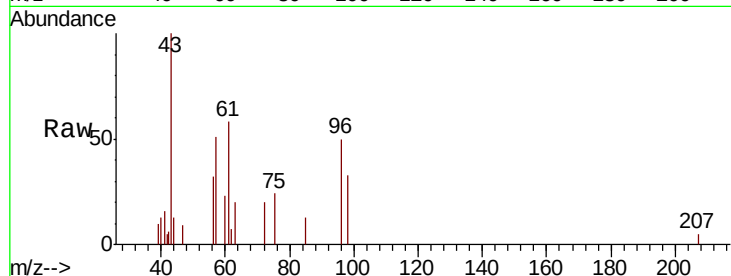




#37
Ethyl Acetate
Concen: 1.969 ug/l
RT: 7.02 min Scan# 866
Delta R.T. -0.09 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

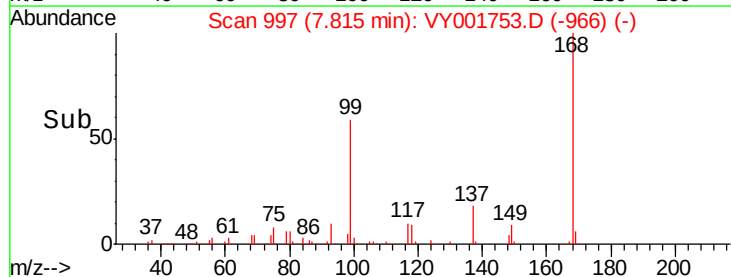
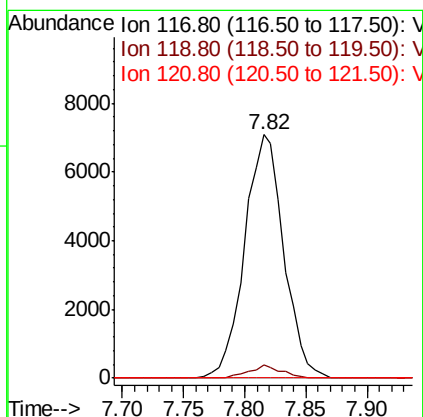
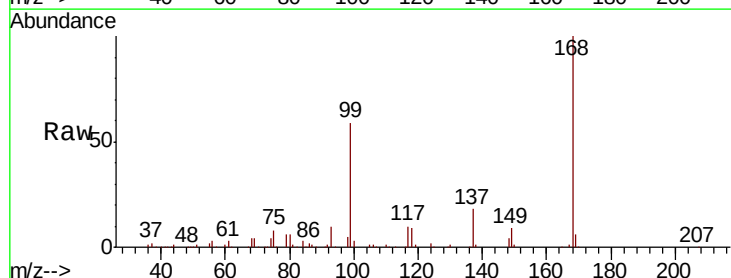
Instrument :
MSVOA_Y
ClientSampleId :

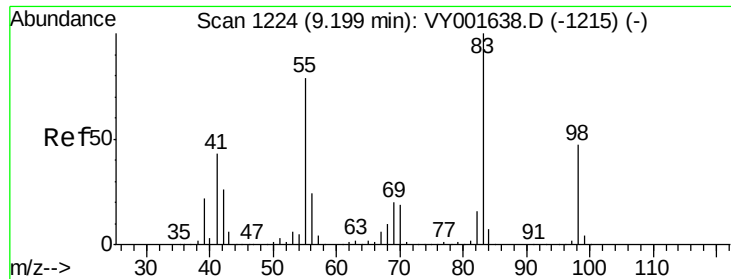
Tot Ion: 43 Resp: 3273
Ion Ratio Lower Upper
43 100
61 72.6 11.0 16.6#
70 0.0 8.8 13.2#



#38
Carbon Tetrachloride
Concen: 6.444 ug/l
RT: 7.82 min Scan# 997
Delta R.T. -0.11 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

Tgt Ion: 117 Resp: 15760
Ion Ratio Lower Upper
117 100
119 5.3 74.8 112.2#
121 0.0 23.8 35.6#

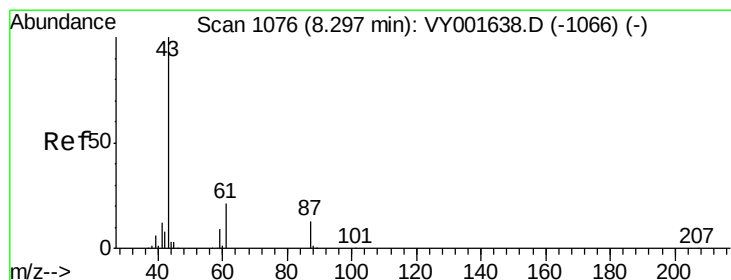
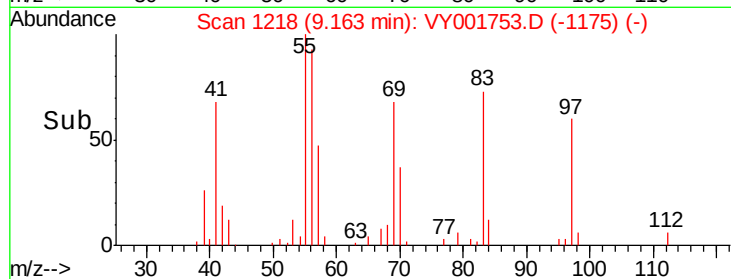
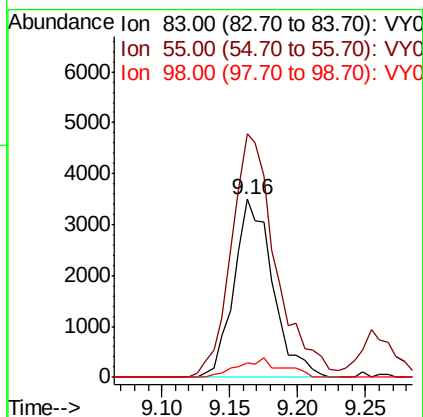
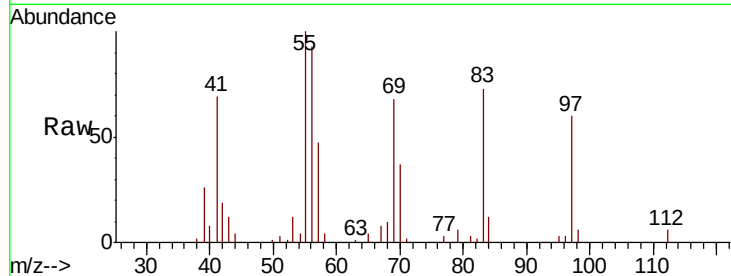




#39
Methylcyclohexane
Concen: 1.886 ug/l
RT: 9.16 min Scan# 1218
Delta R.T. -0.04 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

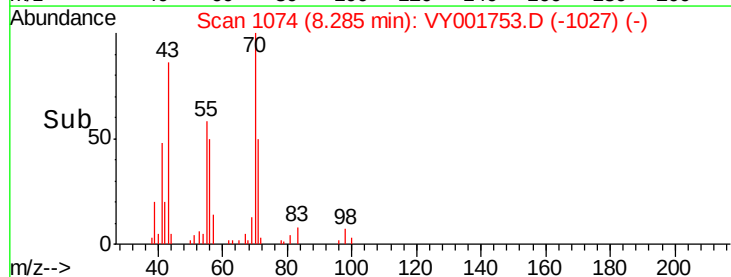
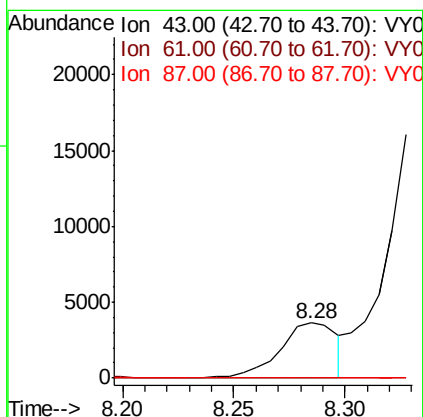
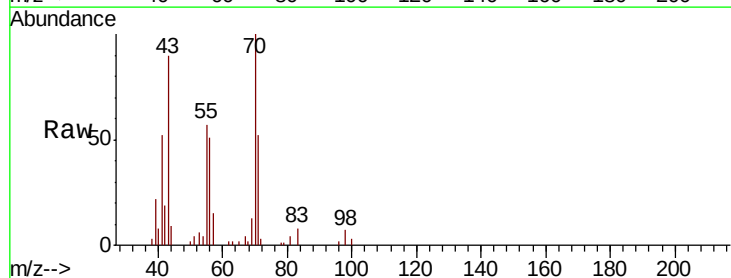
Instrument :
MSVOA_Y
ClientSampled :

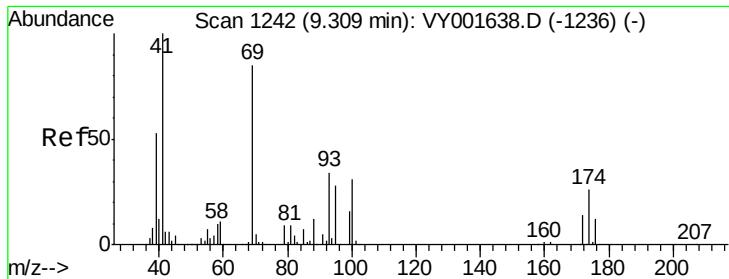
Tot Ion: 83 Resp: 6968
Ion Ratio Lower Upper
83 100
55 136.7 61.3 91.9#
98 8.1 38.0 57.0#



#43
Isopropyl Acetate
Concen: 2.062 ug/l
RT: 8.28 min Scan# 1074
Delta R.T. -0.01 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

Tgt Ion: 43 Resp: 6503
Ion Ratio Lower Upper
43 100
61 0.0 23.0 34.4#
87 0.0 10.7 16.1#

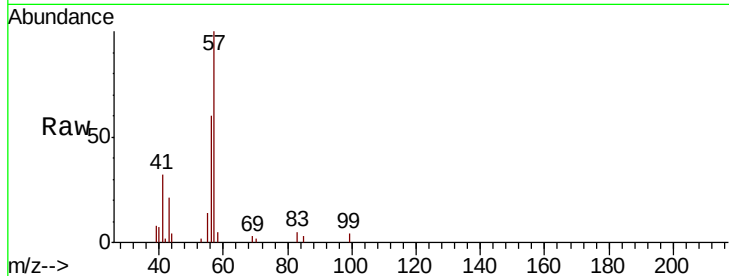




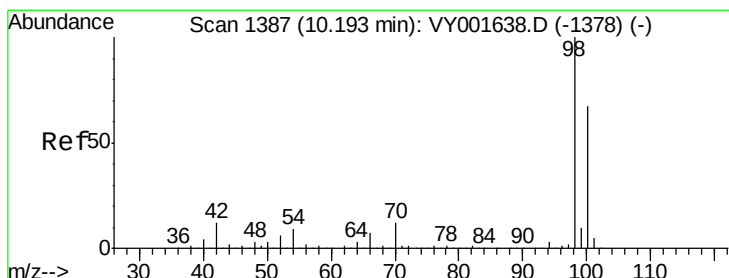
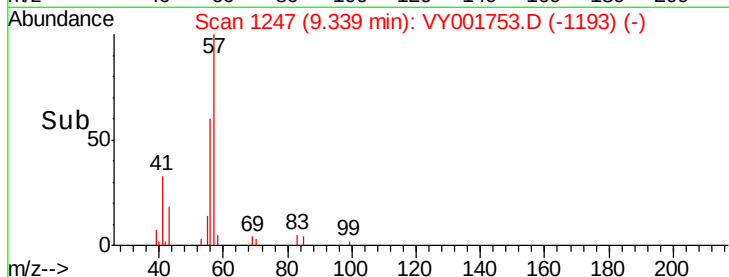
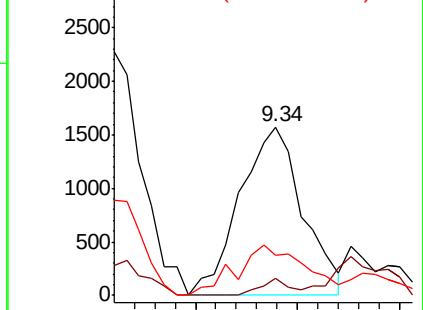
#48
Methvl methacrylate
Concen: 2.362 ug/l
RT: 9.34 min Scan# 1247
Delta R.T. 0.03 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 41 Resp: 3368
Ion Ratio Lower Upper
41 100
69 0.0 70.7 106.1#
39 32.8 42.2 63.2#

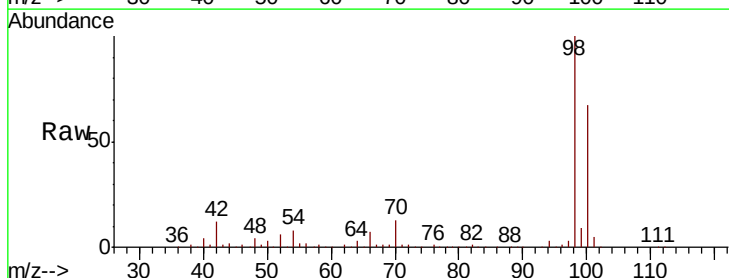


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 39.00 (38.70 to 39.70): VY0

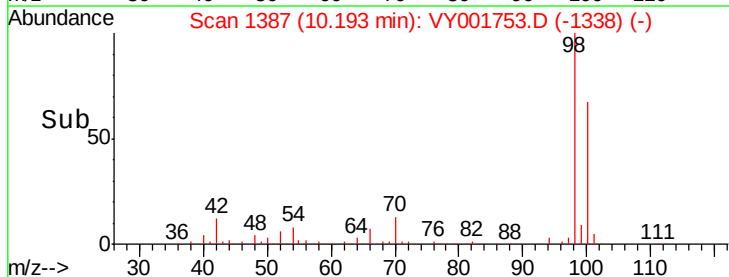
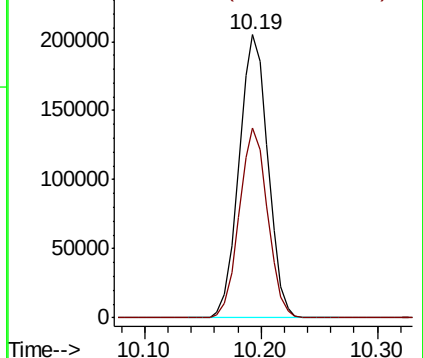


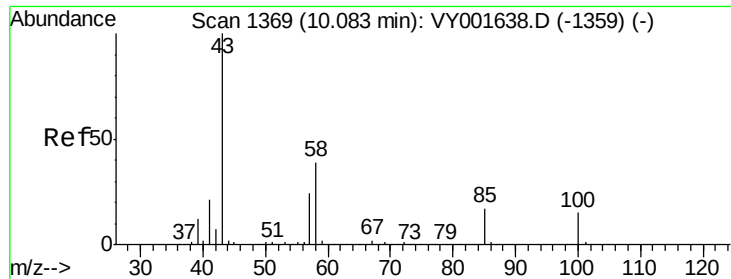
#50
Toluene-d8
Concen: 54.190 ug/l
RT: 10.19 min Scan# 1387
Delta R.T. 0.00 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

Tgt Ion: 98 Resp: 354463
Ion Ratio Lower Upper
98 100
100 65.7 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY0





#51

4-Methyl-2-Pentanone

Concen: 3.611 ug/l

RT: 10.13 min Scan# 1376

Delta R.T. 0.04 min

Lab File: VY001753.D

Acq: 21 Feb 2020 19:09

Instrument :

MSVOA_Y

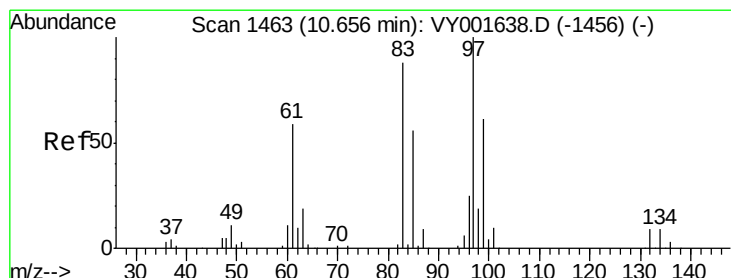
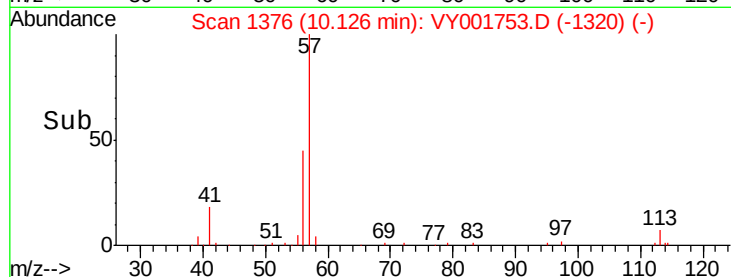
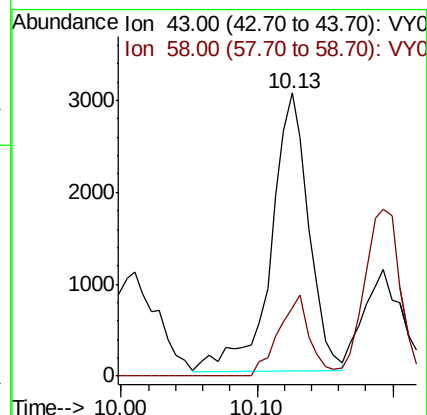
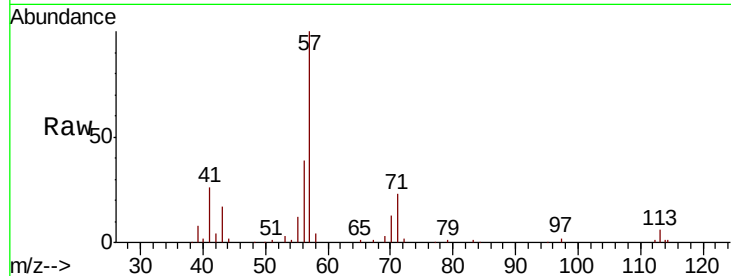
ClientSampleId :

Tot Ion: 43 Resp: 5850

Ion Ratio Lower Upper

43 100

58 24.2 32.2 48.4#



#55

1,1,2-Trichloroethane

Concen: 5.893 ug/l

RT: 10.63 min Scan# 1459

Delta R.T. -0.02 min

Lab File: VY001753.D

Acq: 21 Feb 2020 19:09

Tgt Ion: 97 Resp: 9322

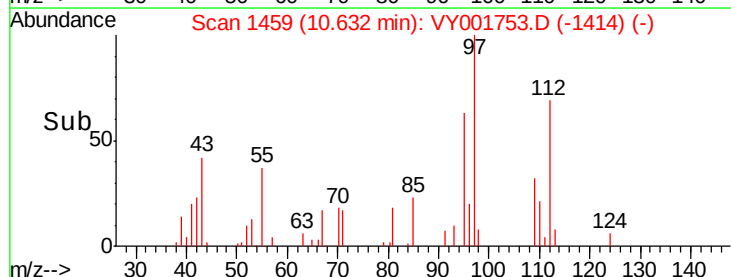
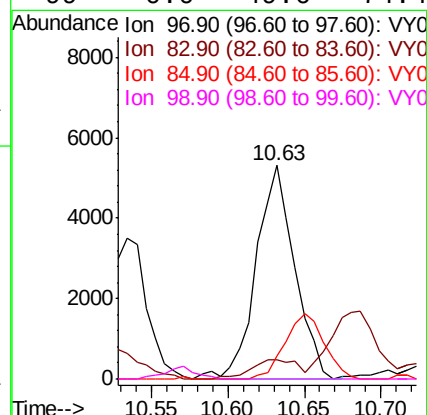
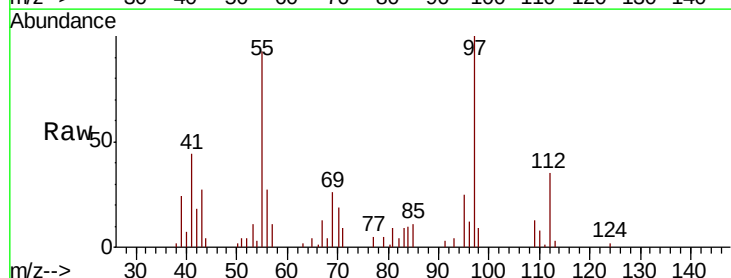
Ion Ratio Lower Upper

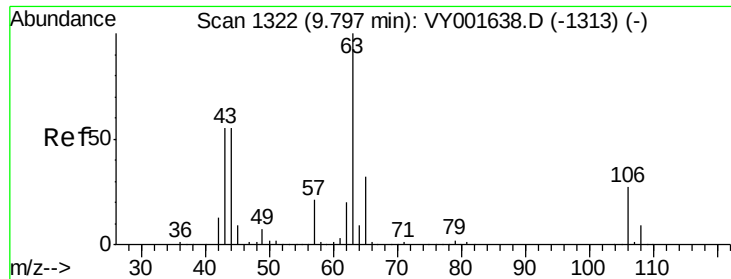
97 100

83 9.0 69.7 104.5#

85 10.9 44.5 66.7#

99 0.0 49.6 74.4#

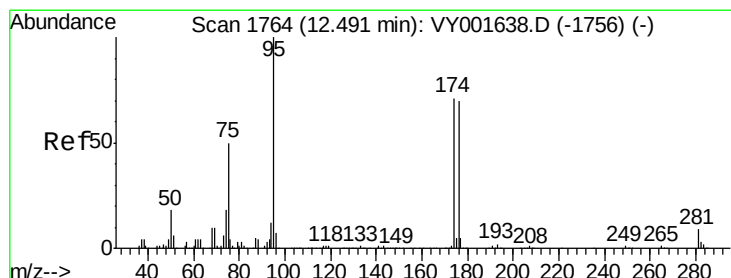
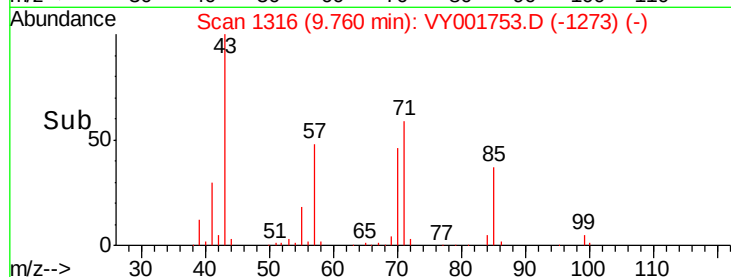
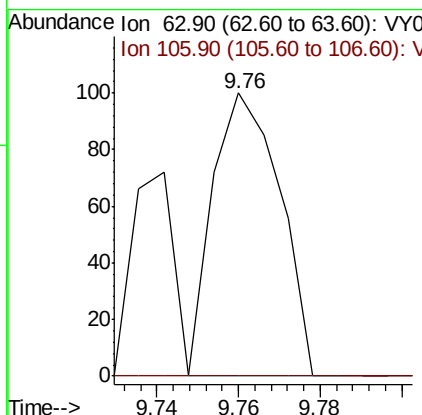
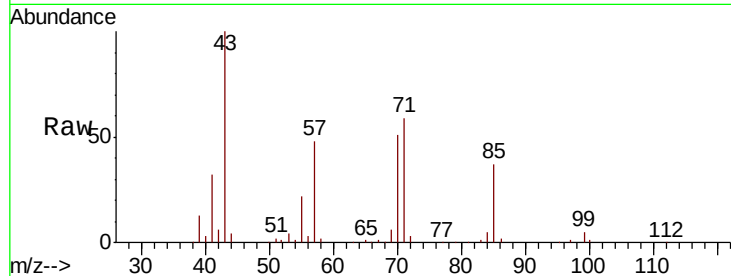




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 9.76 min Scan# 1316
Delta R.T. -0.04 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

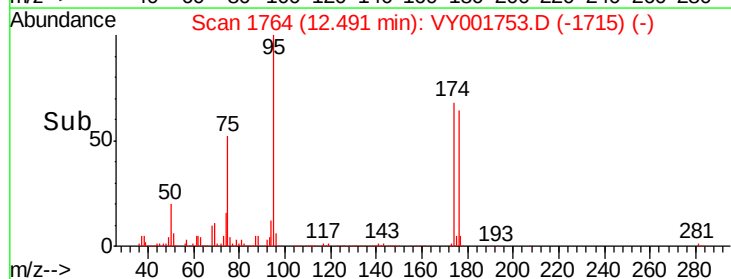
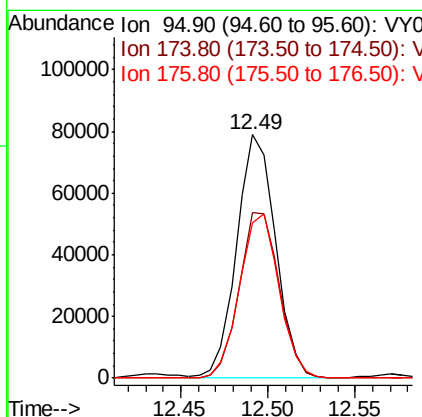
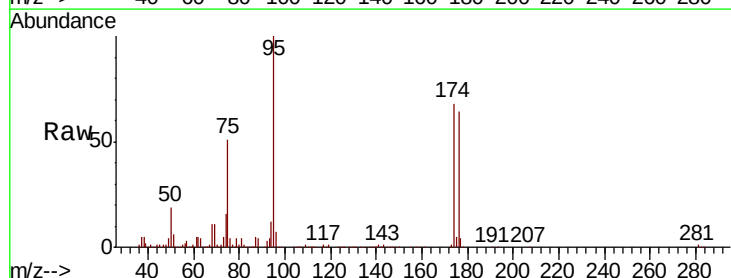
Instrument :
MSVOA_Y
ClientSampleId :

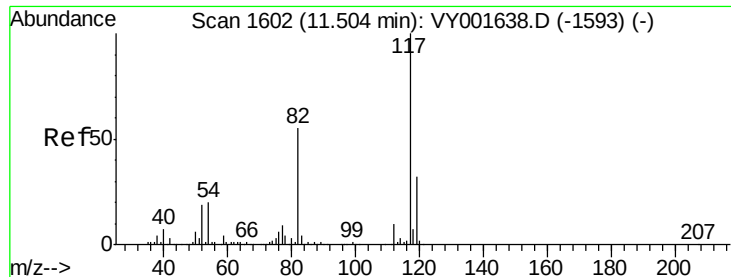
Tot Ion: 63 Resp: 114
Ion Ratio Lower Upper
63 100
106 0.0 21.6 32.4#



#62
4-Bromofluorobenzene
Concen: 47.816 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. 0.00 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

Tgt Ion: 95 Resp: 121508
Ion Ratio Lower Upper
95 100
174 70.6 0.0 138.4
176 68.7 0.0 131.8

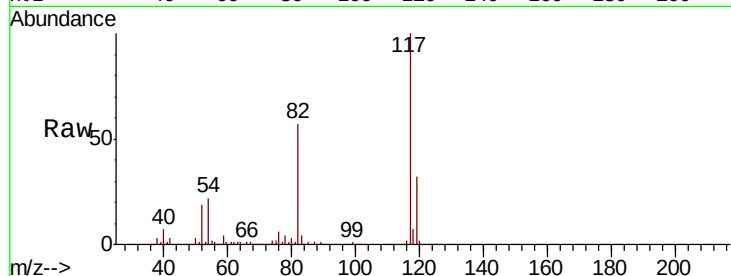




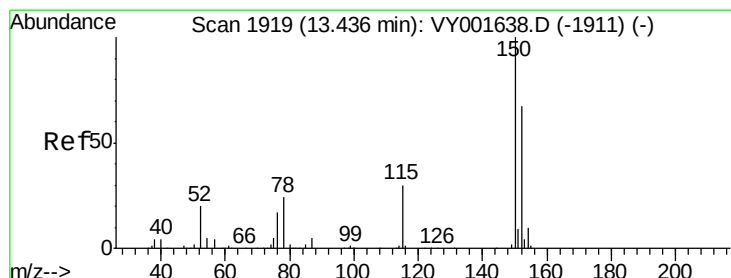
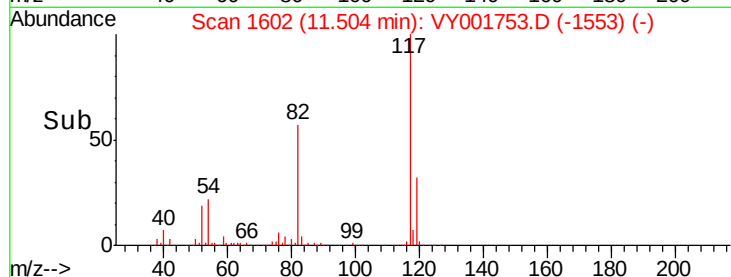
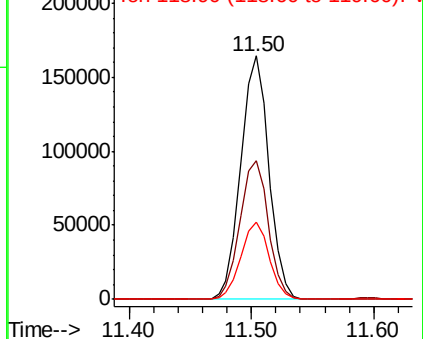
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:117 Resp: 261573
Ion Ratio Lower Upper
117 100
82 56.7 45.5 68.3
119 31.7 25.8 38.6

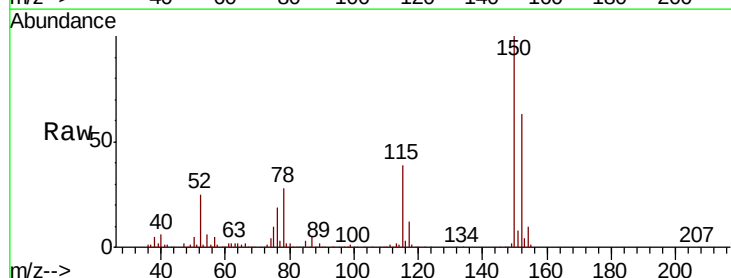


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

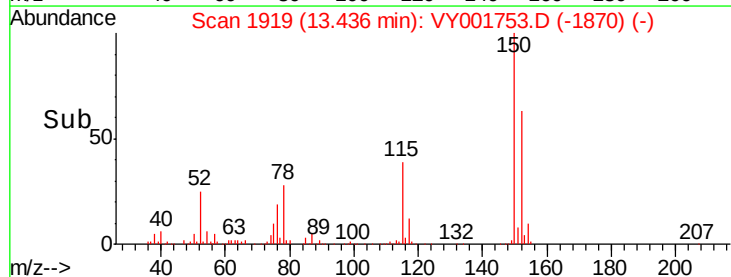
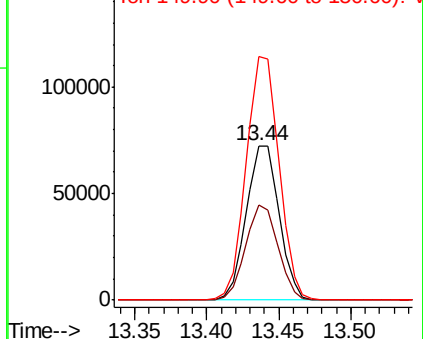


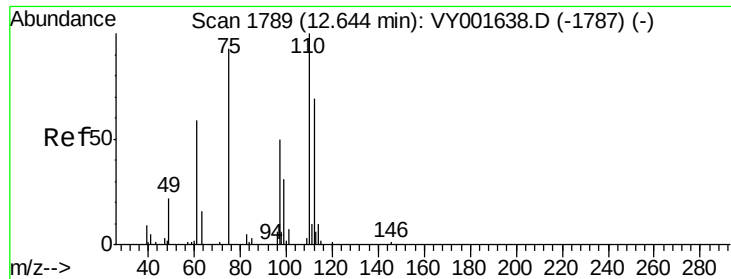
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.44 min Scan# 1919
Delta R.T. -0.00 min
Lab File: VY001753.D
Acq: 21 Feb 2020 19:09

Tgt Ion:152 Resp: 113972
Ion Ratio Lower Upper
152 100
115 61.2 31.4 94.2
150 157.7 0.0 407.2



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: 46.456 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY001753.D

Acq: 21 Feb 2020 19:09

Instrument :

MSVOA_Y

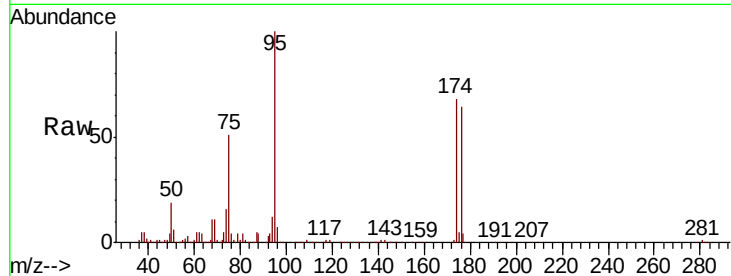
ClientSampleId :

Tot Ion: 75 Resp: 60737

Ion Ratio Lower Upper

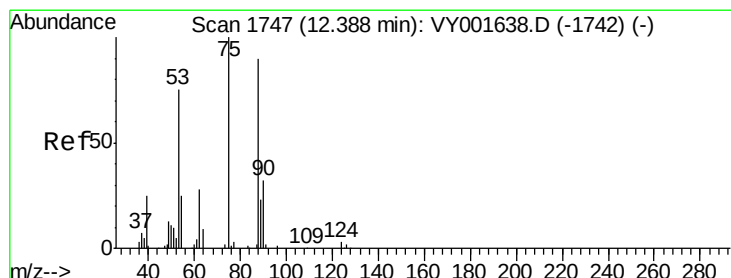
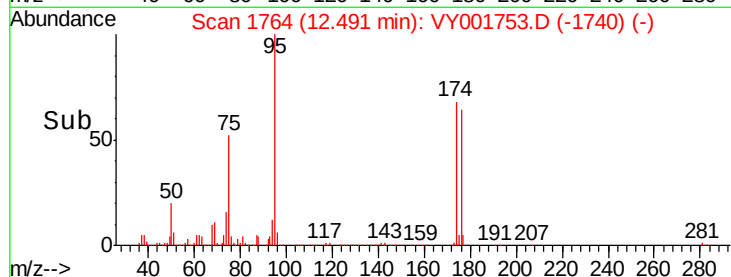
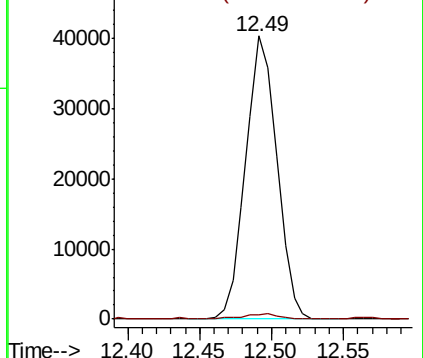
75 100

77 2.4 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: 88.135 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001753.D

Acq: 21 Feb 2020 19:09

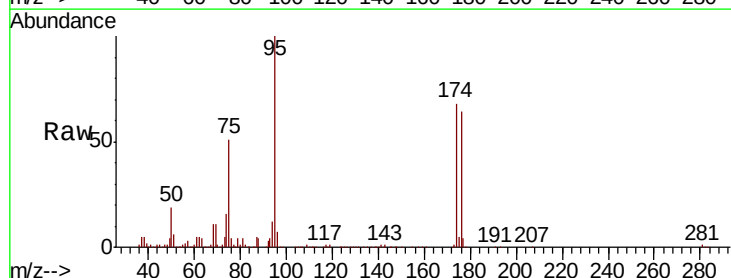
Tgt Ion: 75 Resp: 60737

Ion Ratio Lower Upper

75 100

53 0.6 64.5 96.7#

89 0.0 36.3 54.5#



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

