

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012420\
 Data File : VY001384.D
 Acq On : 24 Jan 2020 15:56
 Operator : SY/MD
 Sample : L1242-03
 Misc : 5.10G/5ML/MSVOA Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 25 03:50:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y012120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 01:21:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.81	168	161449	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.71	114	298978	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	260112	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	96226	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	90617	51.58	ug/l	-0.01
Spiked Amount			Recovery	=	103.16%	
35) Dibromofluoromethane	7.74	113	86925	49.54	ug/l	-0.01
Spiked Amount			Recovery	=	99.08%	
50) Toluene-d8	10.19	98	352201	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
62) 4-Bromofluorobenzene	12.49	95	115062	42.38	ug/l	0.00
Spiked Amount			Recovery	=	84.76%	

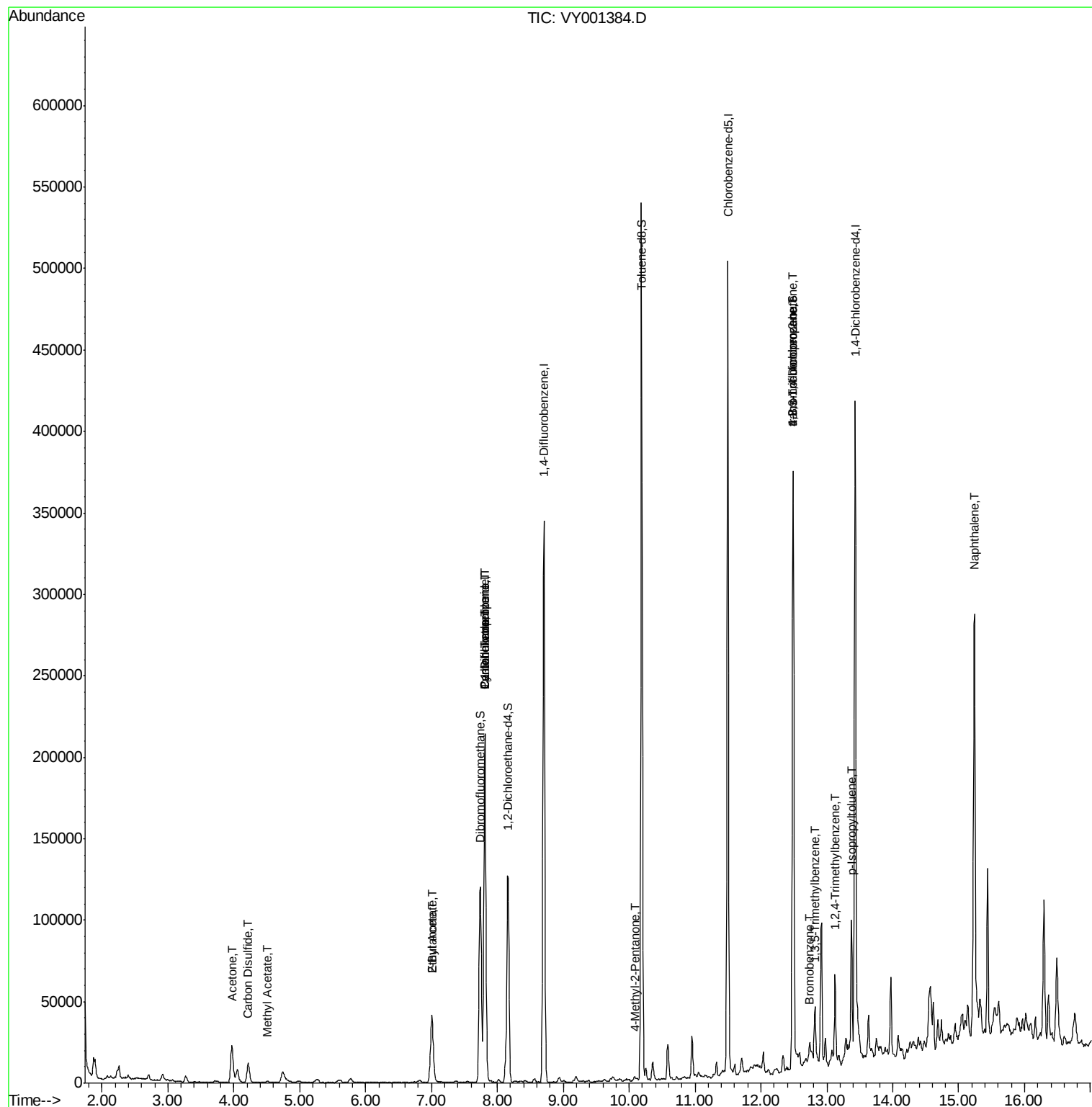
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.98	59	1697	Below Cal	#	86
13) Acrolein	3.75	56	720	Below Cal	#	75
16) Acetone	3.97	43	41136	83.849	ug/l	98
17) Carbon Disulfide	4.22	76	21733	4.031	ug/l	100
18) Methyl Acetate	4.51	43	1728	1.166	ug/l #	80
20) Methylene Chloride	4.74	84	4273	Below Cal	#	85
25) 2-Butanone	7.02	43	16915	22.121	ug/l	93
31) Cyclohexane	7.81	56	4195	1.235	ug/l #	6
36) 1,1-Dichloropropene	7.81	75	13529	4.790	ug/l #	49
37) Ethyl Acetate	7.02	43	16915	9.802	ug/l #	81
38) Carbon Tetrachloride	7.81	117	16738	6.649	ug/l #	15
51) 4-Methyl-2-Pentanone	10.08	43	1969	1.139	ug/l	99
76) 1,2,3-Trichloropropane	12.49	75	58899	50.796	ug/l #	100
77) Bromobenzene	12.72	156	6507	3.869	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.81	105	8894	1.403	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.49	75	58899	96.125	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.13	105	26021	4.089	ug/l	98
86) p-Isopropyltoluene	13.38	119	44580	6.665	ug/l	99
95) Naphthalene	15.24	128	200193	43.670	ug/l	99

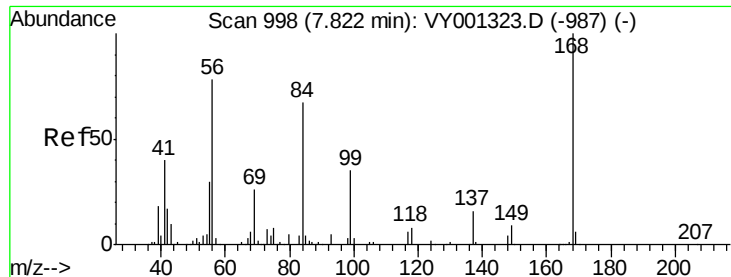
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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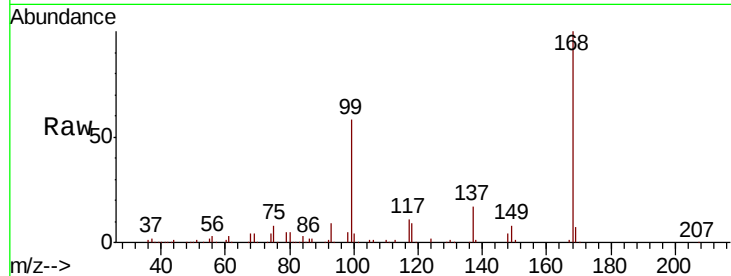


#1

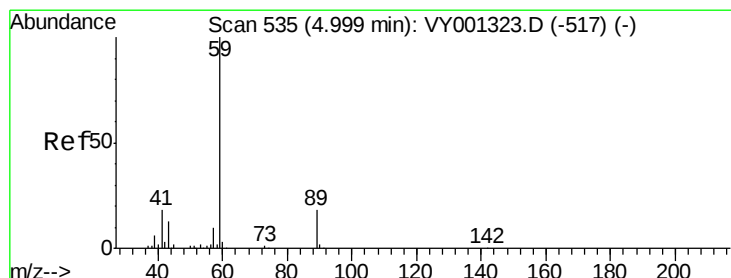
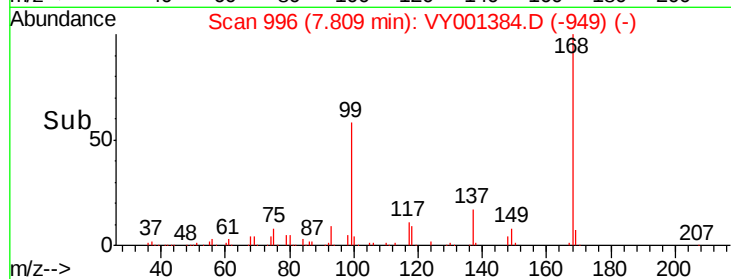
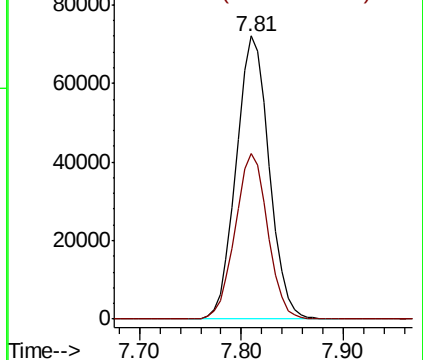
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.01 min
 Lab File: VY001384.D
 Acq: 24 Jan 2020 15:56

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:168 Resp: 161449
 Ion Ratio Lower Upper
 168 100
 99 58.5 44.3 66.5



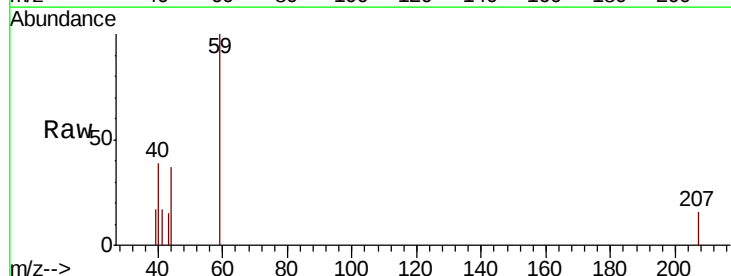
Abundance Ion 167.90 (167.60 to 168.60): VY001323.D (-987) (-)
 Ion 98.90 (98.60 to 99.60): VY001323.D (-987) (-)



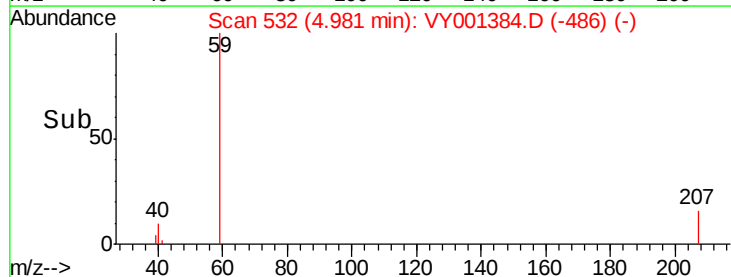
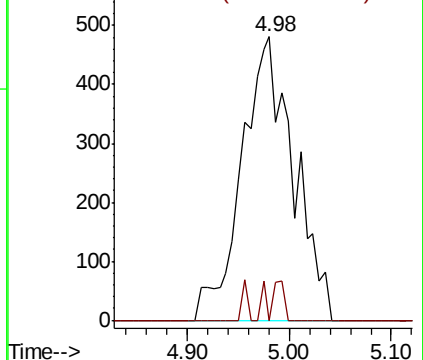
#11

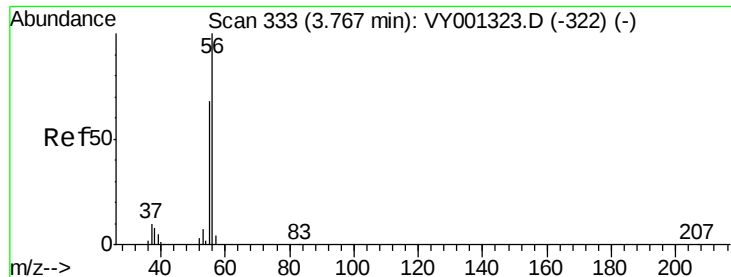
Tert butyl alcohol
 Concen: Below Cal
 RT: 4.98 min Scan# 532
 Delta R.T. -0.02 min
 Lab File: VY001384.D
 Acq: 24 Jan 2020 15:56

Tgt Ion: 59 Resp: 1697
 Ion Ratio Lower Upper
 59 100
 57 4.2 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001323.D (-517) (-)
 Ion 57.00 (56.70 to 57.70): VY001323.D (-517) (-)





#13

Acrolein

Concen: Below Cal

RT: 3.75 min Scan# 330

Delta R.T. -0.02 min

Lab File: VY001384.D

Acq: 24 Jan 2020 15:56

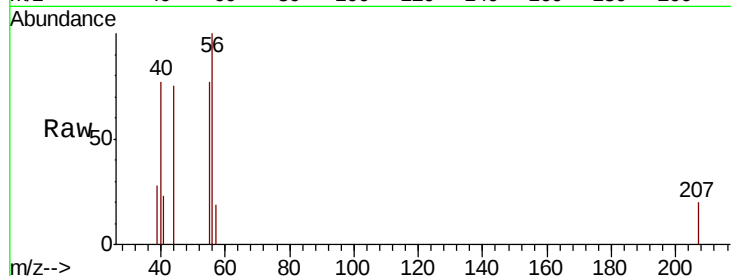
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 56 Resp: 720

Ion Ratio Lower Upper

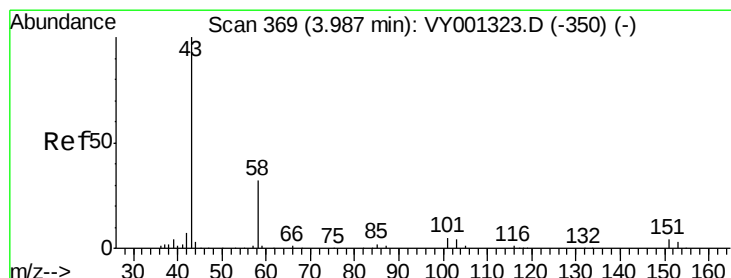
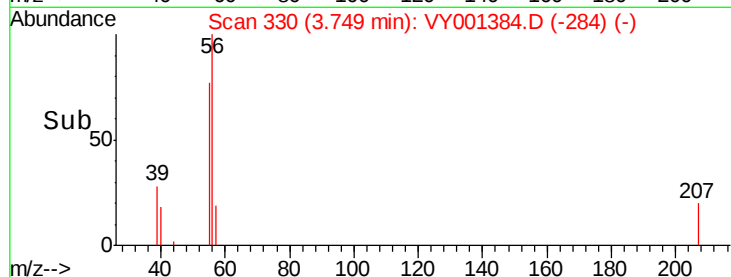
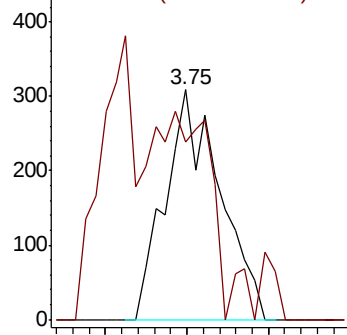
56 100

55 90.6 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#16

Acetone

Concen: 83.849 ug/l

RT: 3.97 min Scan# 366

Delta R.T. -0.02 min

Lab File: VY001384.D

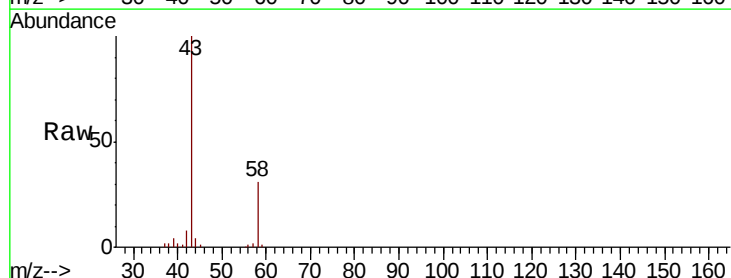
Acq: 24 Jan 2020 15:56

Tgt Ion: 43 Resp: 41136

Ion Ratio Lower Upper

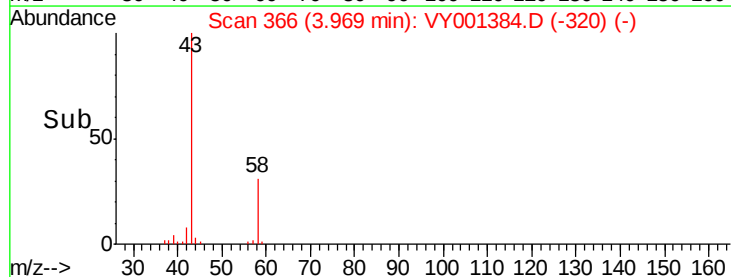
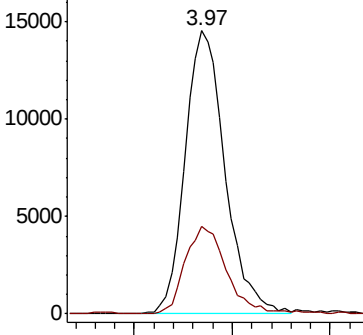
43 100

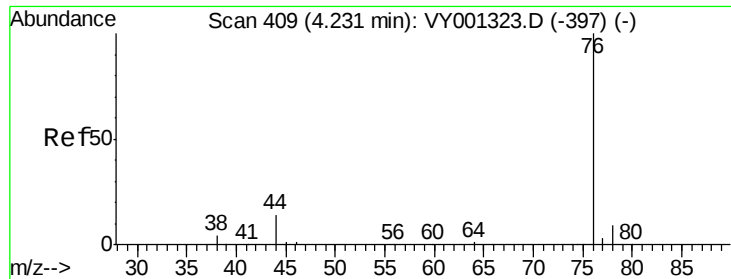
58 30.7 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

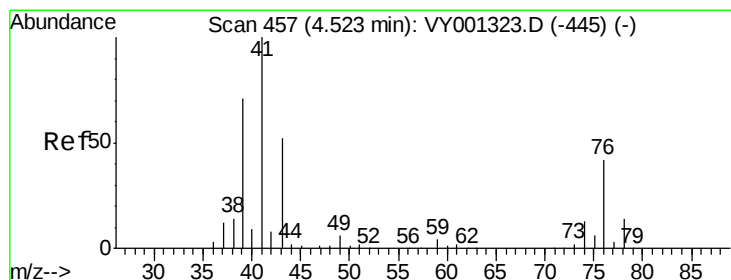
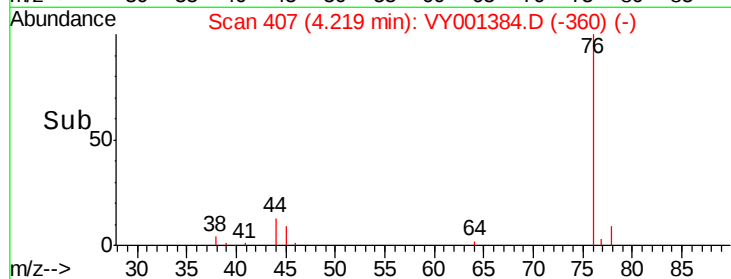
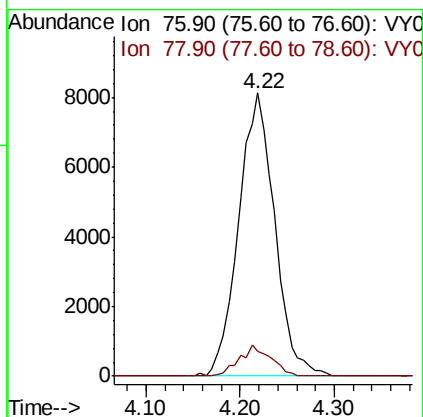
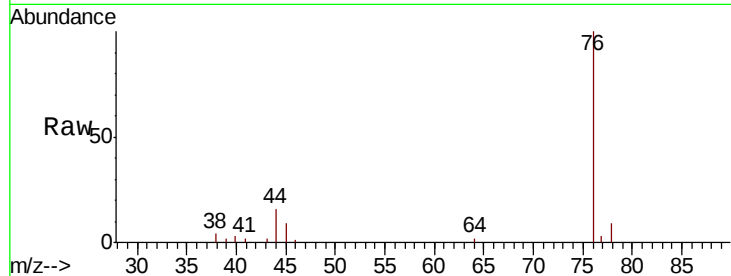




#17
Carbon Disulfide
Concen: 4.031 ug/l
RT: 4.22 min Scan# 407
Delta R.T. -0.01 min
Lab File: VY001384.D
Acq: 24 Jan 2020 15:56

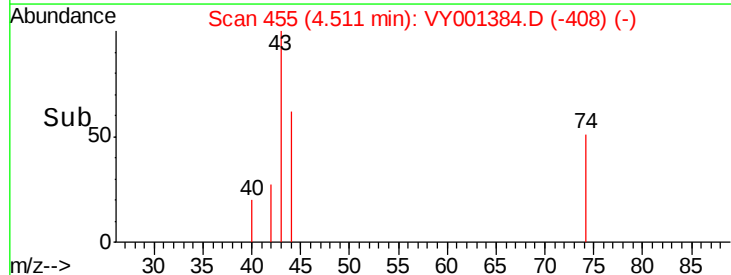
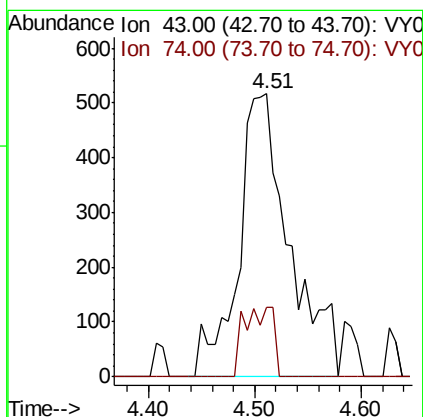
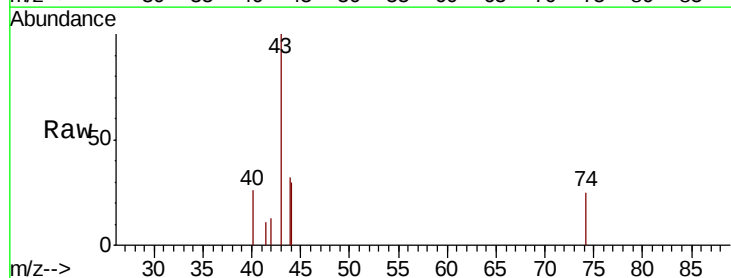
Instrument :
MSVOA_Y
ClientSampleId :

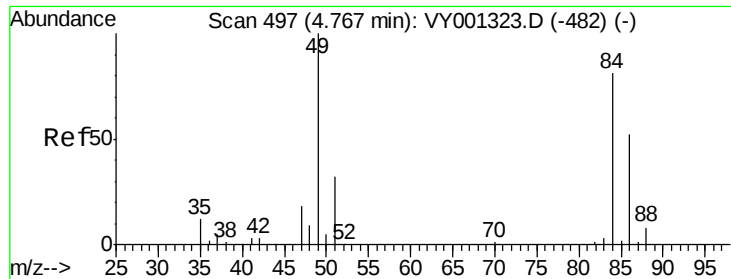
Tot Ion: 76 Resp: 21733
Ion Ratio Lower Upper
76 100
78 8.9 7.0 10.6



#18
Methyl Acetate
Concen: 1.166 ug/l
RT: 4.51 min Scan# 455
Delta R.T. -0.01 min
Lab File: VY001384.D
Acq: 24 Jan 2020 15:56

Tgt Ion: 43 Resp: 1728
Ion Ratio Lower Upper
43 100
74 14.3 19.4 29.2#

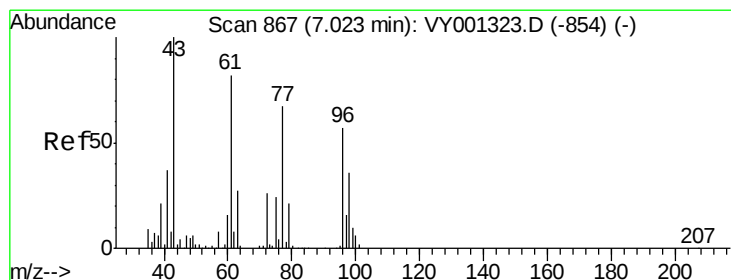
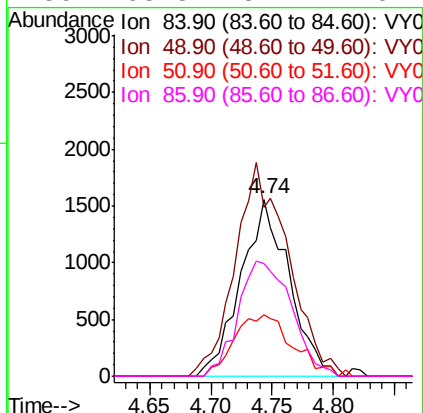
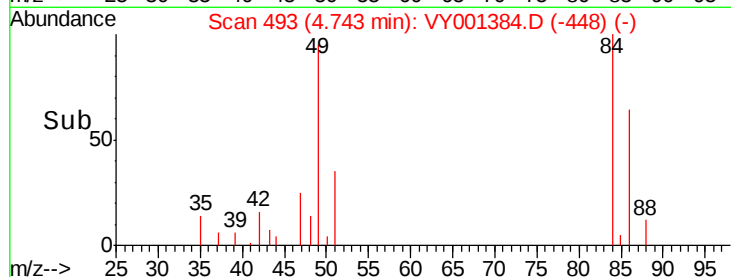
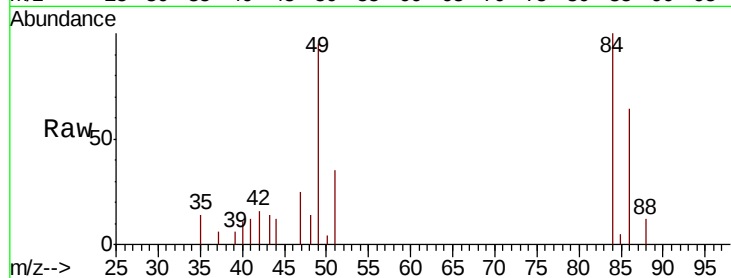




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.74 min Scan# 493
Delta R.T. -0.02 min
Lab File: VY001384.D
Acq: 24 Jan 2020 15:56

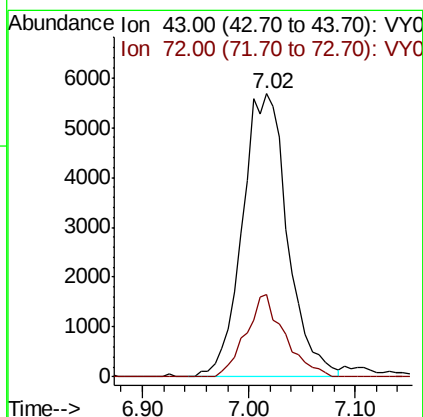
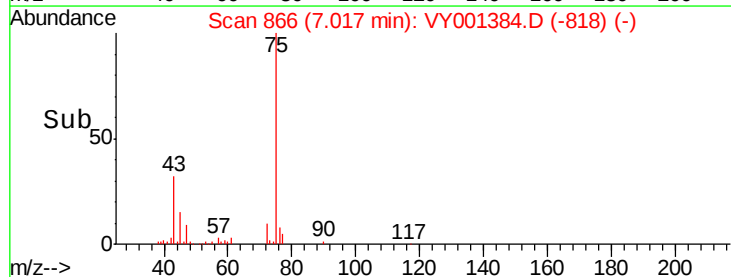
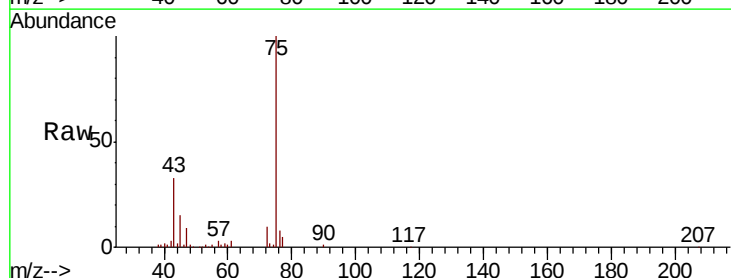
Instrument :
MSVOA_Y
ClientSampleId :

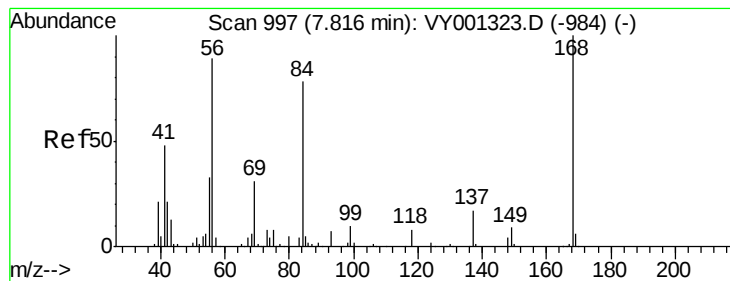
Tot Ion: 84 Resp: 4273
Ion Ratio Lower Upper
84 100
49 95.1 98.3 147.5#
51 34.6 31.6 47.4
86 63.8 51.1 76.7



#25
2-Butanone
Concen: 22.121 ug/l
RT: 7.02 min Scan# 866
Delta R.T. -0.01 min
Lab File: VY001384.D
Acq: 24 Jan 2020 15:56

Tgt Ion: 43 Resp: 16915
Ion Ratio Lower Upper
43 100
72 29.2 20.6 31.0





#31

Cyclohexane

Concen: 1.235 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY001384.D

Acq: 24 Jan 2020 15:56

Instrument :

MSVOA_Y

ClientSampled :

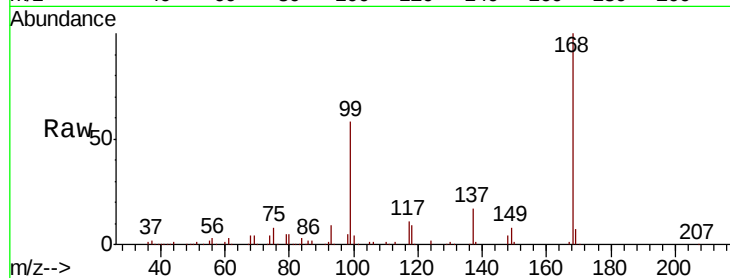
Tot Ion: 56 Resp: 4195

Ion Ratio Lower Upper

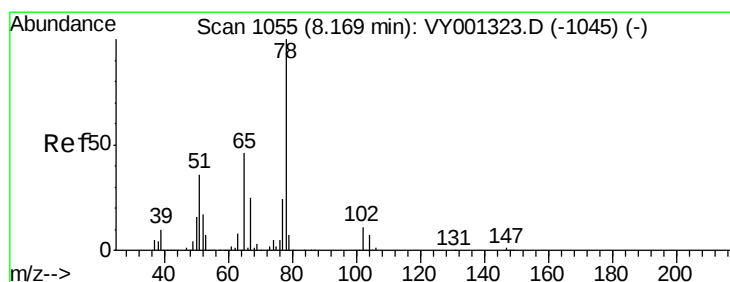
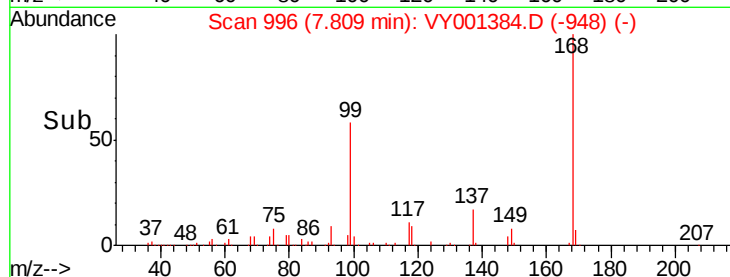
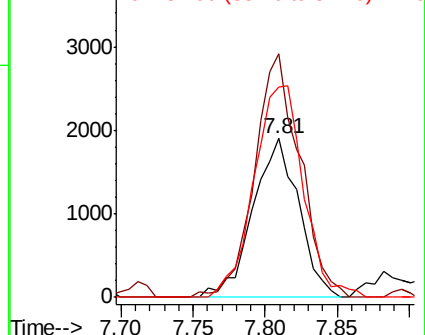
56 100

69 153.4 27.6 41.4#

84 132.7 69.7 104.5#



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: 51.581 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VY001384.D

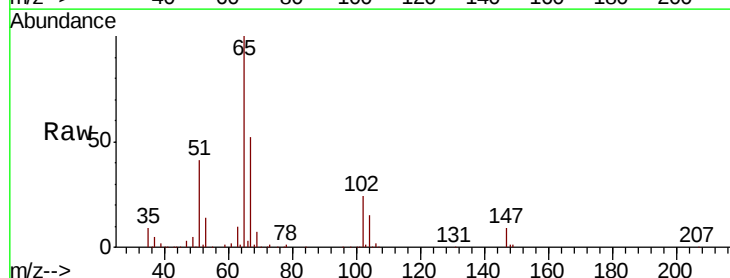
Acq: 24 Jan 2020 15:56

Tgt Ion: 65 Resp: 90617

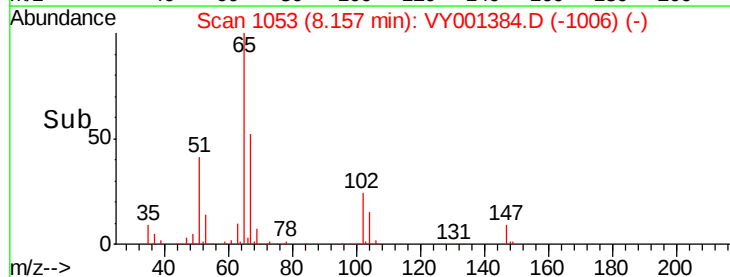
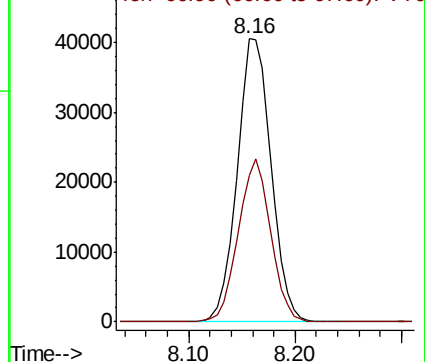
Ion Ratio Lower Upper

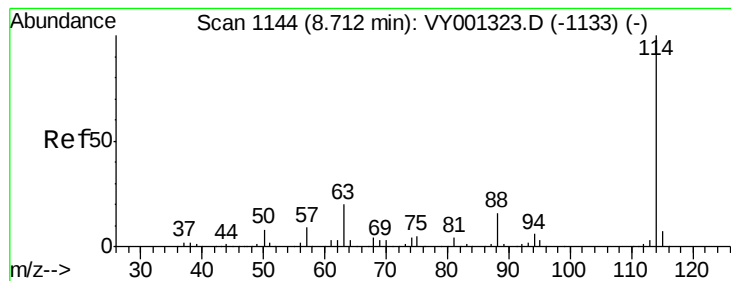
65 100

67 55.2 0.0 108.6



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: 8.71 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VY001384.D

Acq: 24 Jan 2020 15:56

Instrument :

MSVOA_Y

ClientSampleId :

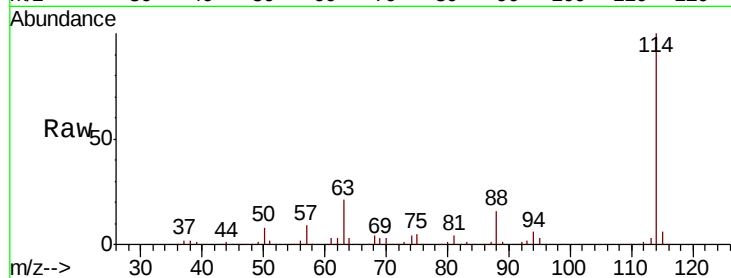
Tot Ion:114 Resp: 298978

Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.8

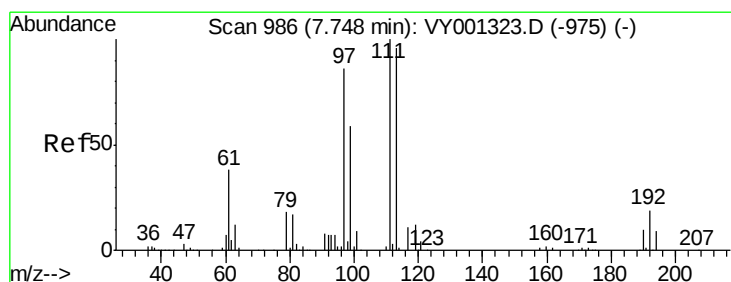
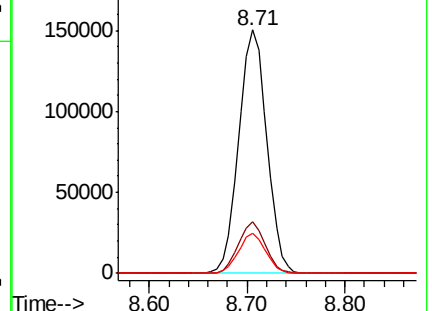
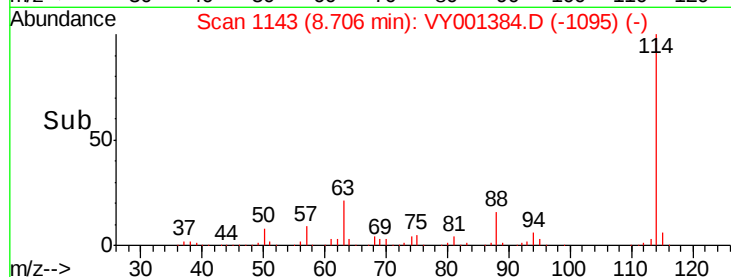
88 16.4 0.0 31.0



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: 49.537 ug/l

RT: 7.74 min Scan# 984

Delta R.T. -0.01 min

Lab File: VY001384.D

Acq: 24 Jan 2020 15:56

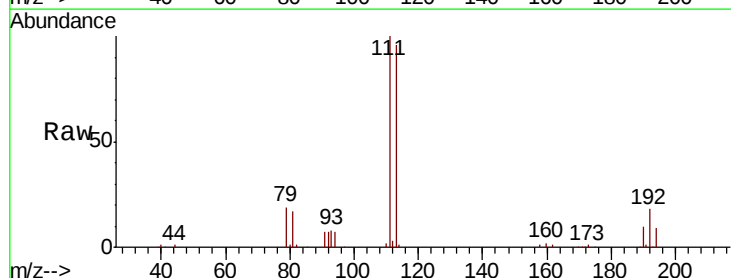
Tgt Ion:113 Resp: 86925

Ion Ratio Lower Upper

113 100

111 103.7 82.8 124.2

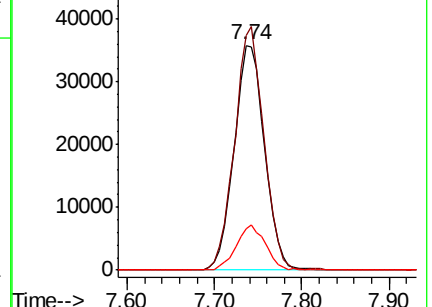
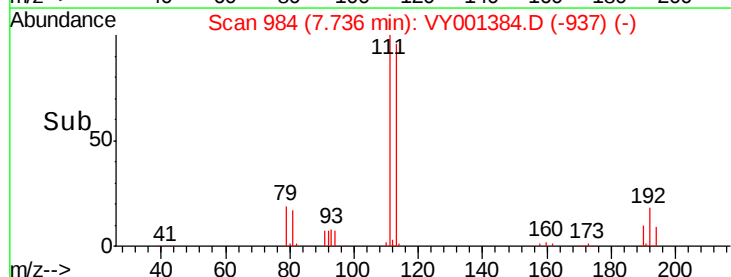
192 19.1 15.5 23.3

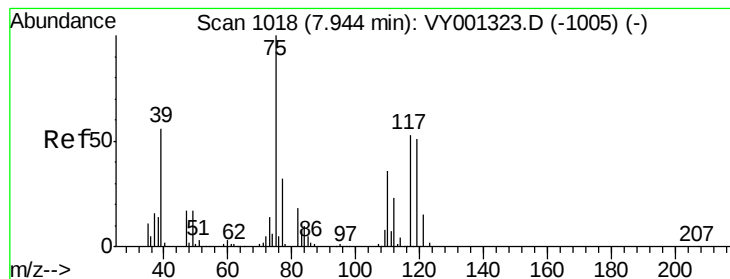


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.790 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.13 min

Lab File: VY001384.D

Acq: 24 Jan 2020 15:56

Instrument :

MSVOA_Y

ClientSampleId :

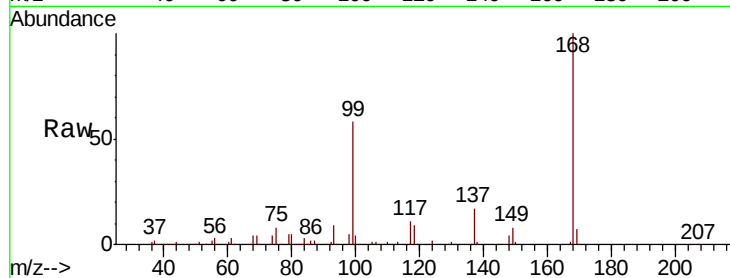
Tot Ion: 75 Resp: 13529

Ion Ratio Lower Upper

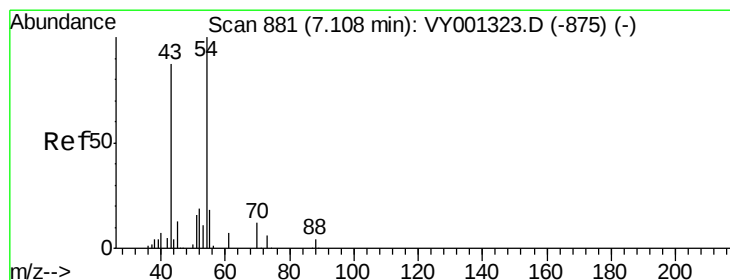
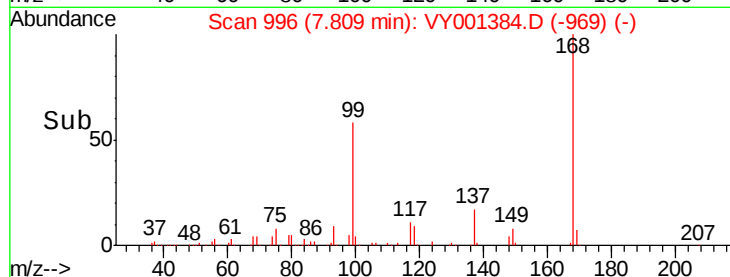
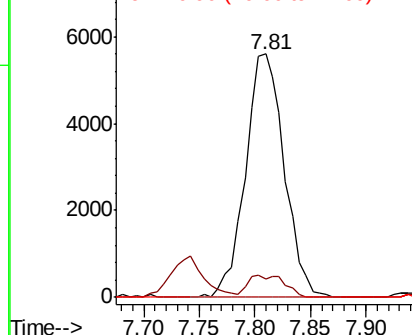
75 100

110 8.6 17.6 52.8#

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: 9.802 ug/l

RT: 7.02 min Scan# 866

Delta R.T. -0.09 min

Lab File: VY001384.D

Acq: 24 Jan 2020 15:56

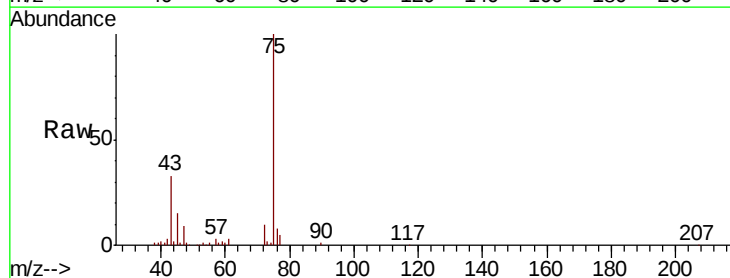
Tgt Ion: 43 Resp: 16915

Ion Ratio Lower Upper

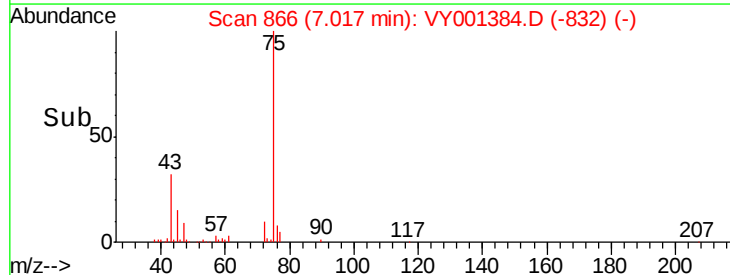
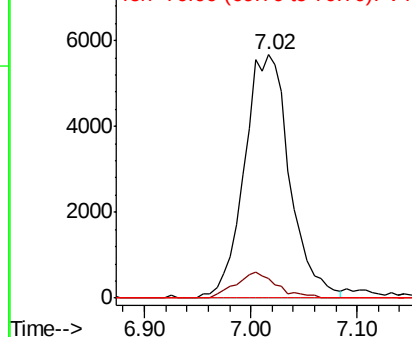
43 100

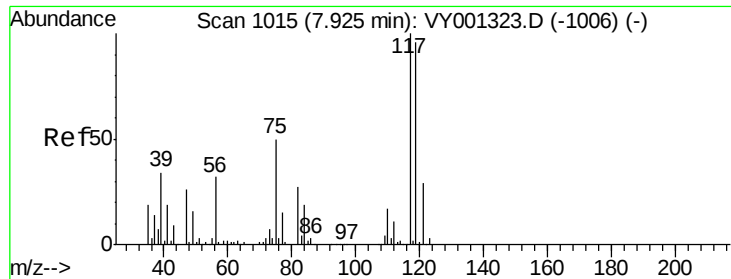
61 9.7 11.3 16.9#

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

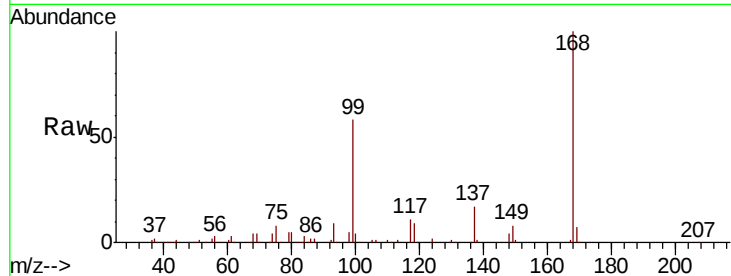




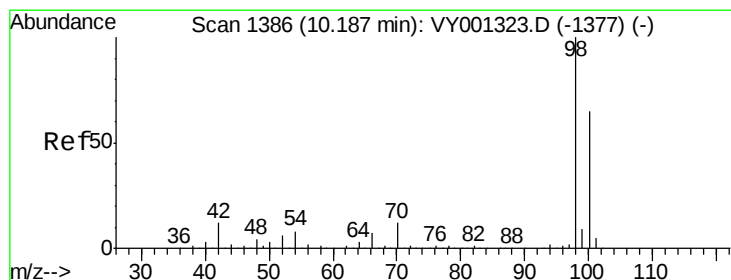
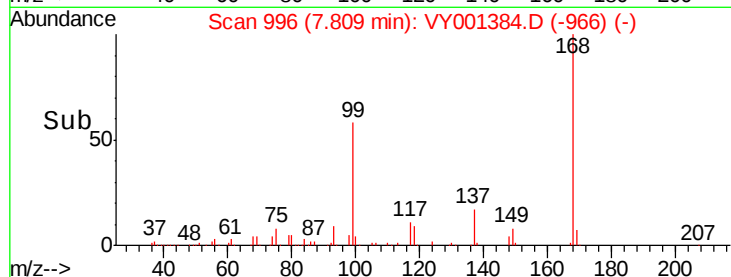
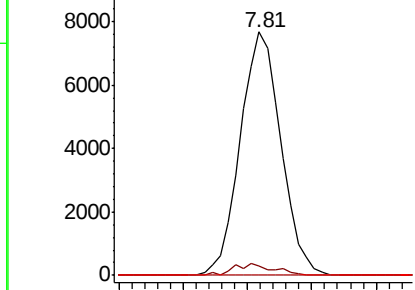
#38
Carbon Tetrachloride
Concen: 6.649 ug/l
RT: 7.81 min Scan# 996
Delta R.T. -0.12 min
Lab File: VY001384.D
Acq: 24 Jan 2020 15:56

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 16738
Ion Ratio Lower Upper
117 100
119 4.0 76.3 114.5#
121 0.0 23.5 35.3#

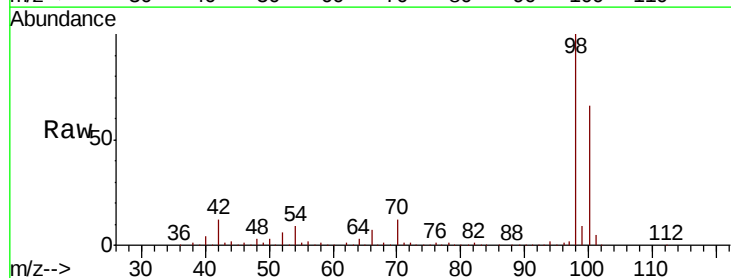


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

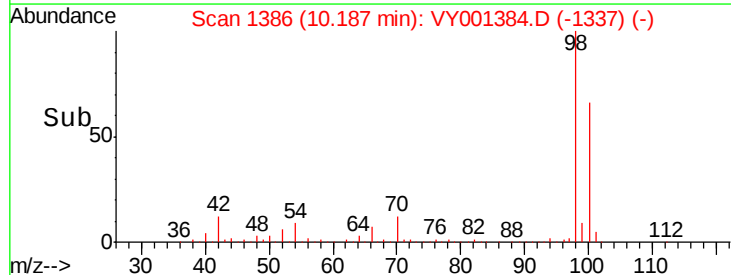
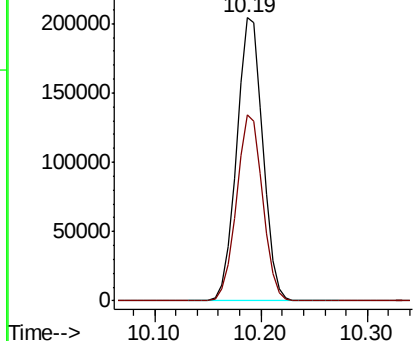


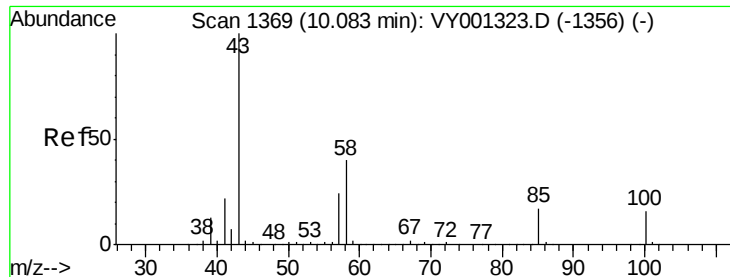
#50
Toluene-d8
Concen: 51.661 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. -0.00 min
Lab File: VY001384.D
Acq: 24 Jan 2020 15:56

Tgt Ion: 98 Resp: 352201
Ion Ratio Lower Upper
98 100
100 65.7 52.6 79.0



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





#51

4-Methyl-2-Pentanone

Concen: 1.139 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VY001384.D

Acq: 24 Jan 2020 15:56

Instrument :

MSVOA_Y

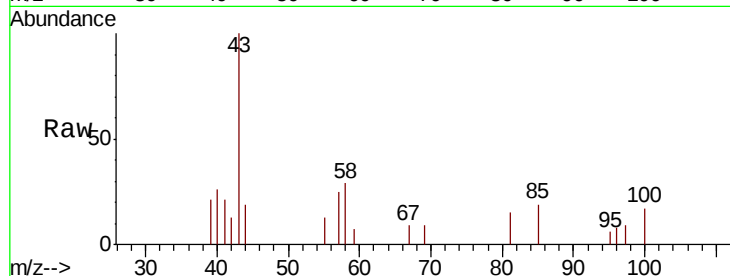
ClientSampleId :

Tot Ion: 43 Resp: 1969

Ion Ratio Lower Upper

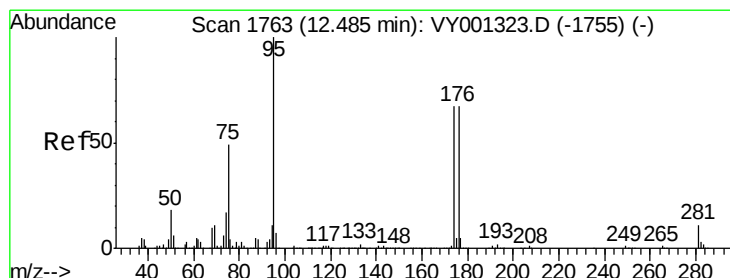
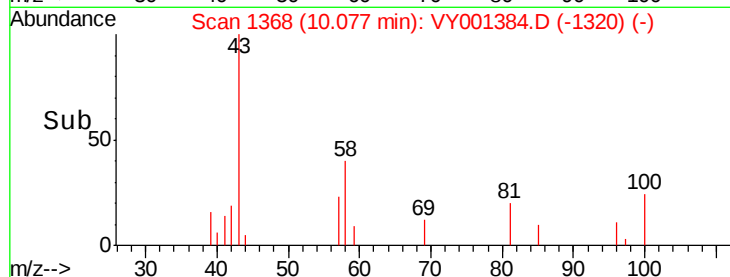
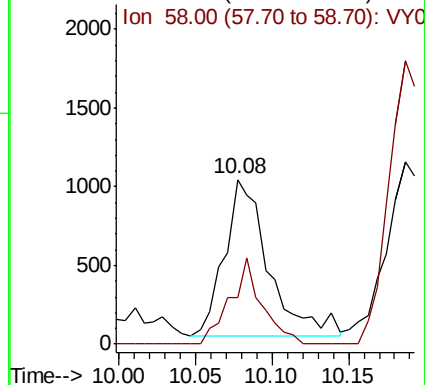
43 100

58 40.3 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VY001323.D (-1356) (-)

Ion 58.00 (57.70 to 58.70): VY001323.D (-1356) (-)



#62

4-Bromofluorobenzene

Concen: 42.381 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VY001384.D

Acq: 24 Jan 2020 15:56

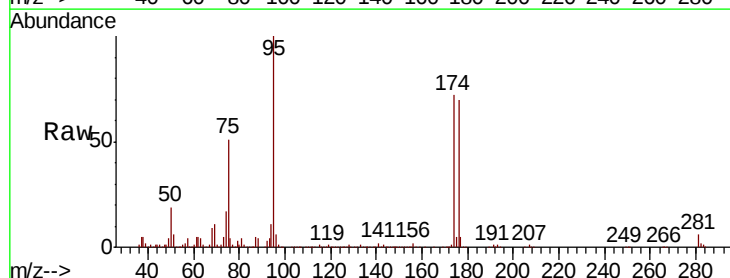
Tgt Ion: 95 Resp: 115062

Ion Ratio Lower Upper

95 100

174 74.0 0.0 142.0

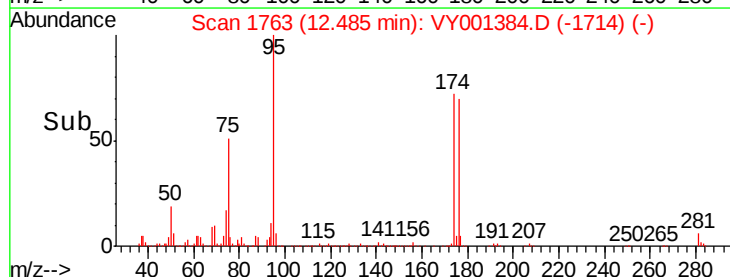
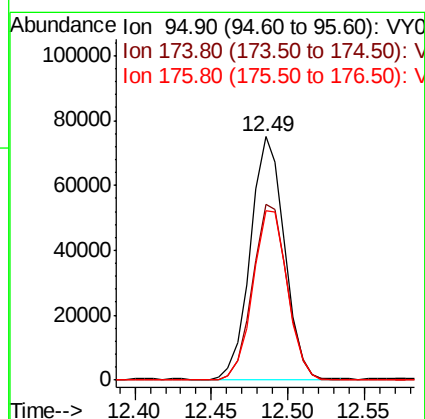
176 71.7 0.0 138.6

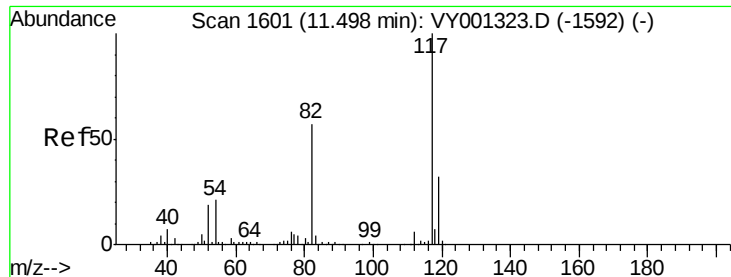


Abundance Ion 94.90 (94.60 to 95.60): VY001323.D (-1755) (-)

Ion 173.80 (173.50 to 174.50): VY001323.D (-1755) (-)

Ion 175.80 (175.50 to 176.50): VY001323.D (-1755) (-)

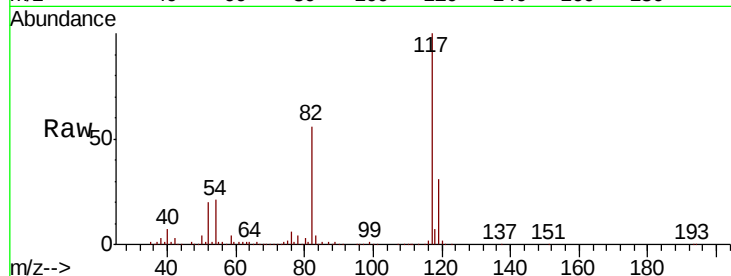




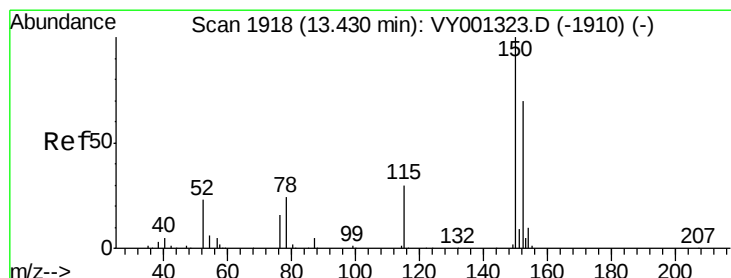
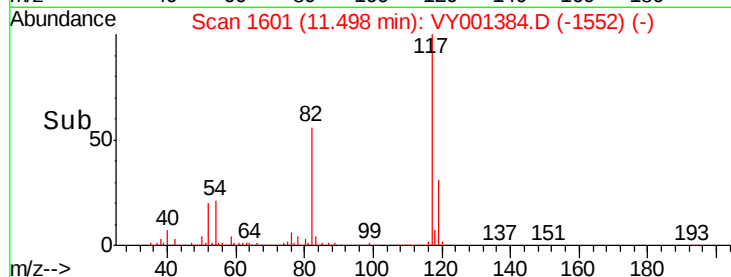
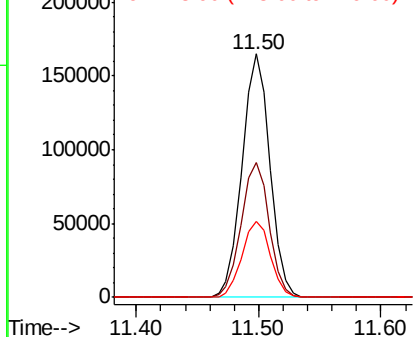
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VY001384.D
Acq: 24 Jan 2020 15:56

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.5	68.3
119	31.1	25.8	38.6

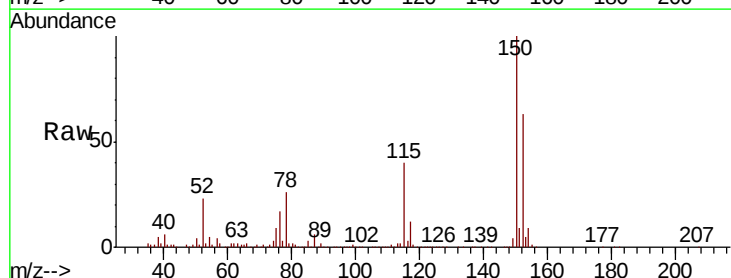


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

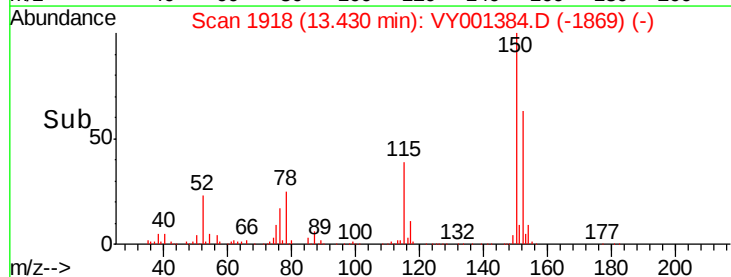
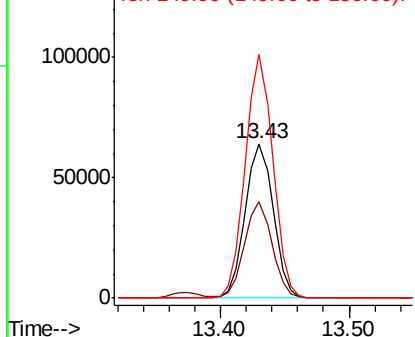


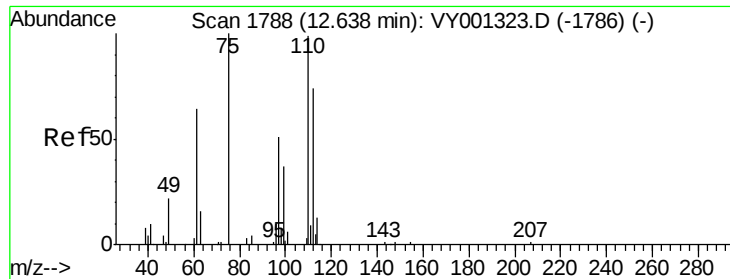
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.00 min
Lab File: VY001384.D
Acq: 24 Jan 2020 15:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.2	30.9	92.8
150	155.7	0.0	349.2



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

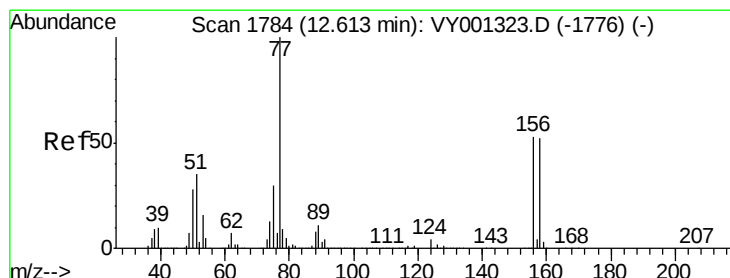
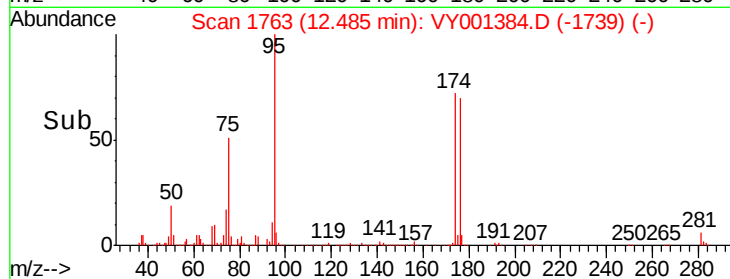
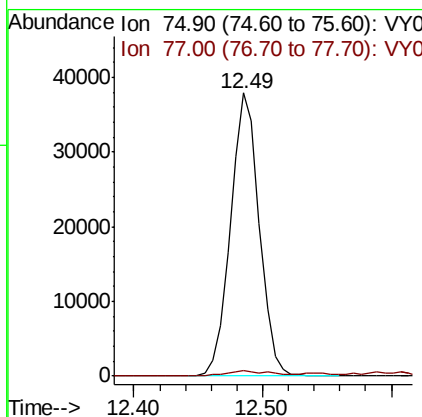
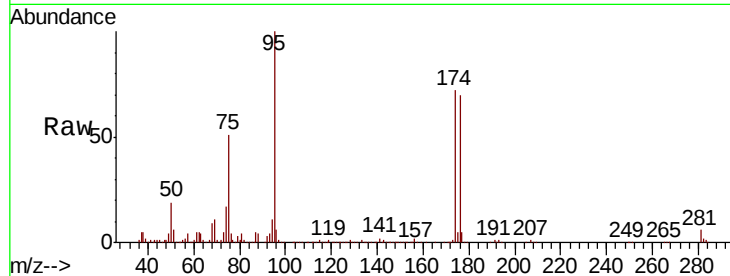




#76
 1,2,3-Trichloropropane
 Concen: 50.796 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. -0.15 min
 Lab File: VY001384.D
 Acq: 24 Jan 2020 15:56

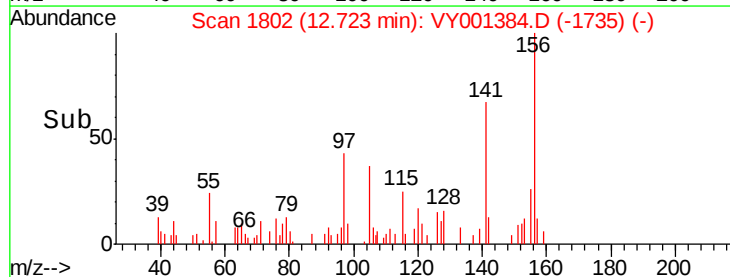
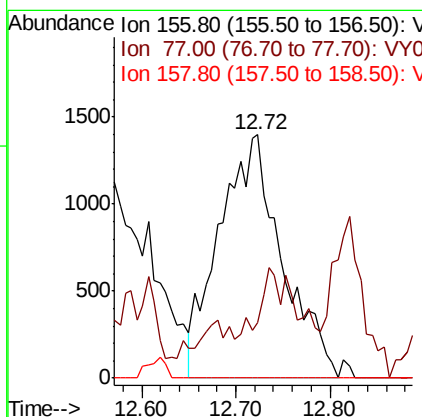
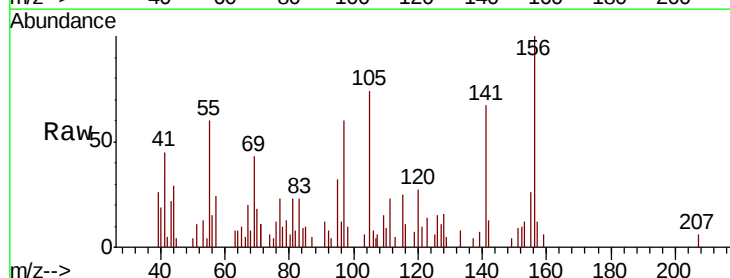
Instrument :
 MSVOA_Y
 ClientSampled :

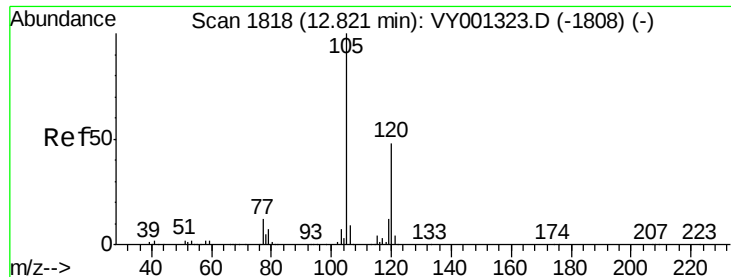
Tot Ion: 75 Resp: 58899
 Ion Ratio Lower Upper
 75 100
 77 2.8 0.0 0.0#



#77
 Bromobenzene
 Concen: 3.869 ug/l
 RT: 12.72 min Scan# 1802
 Delta R.T. 0.11 min
 Lab File: VY001384.D
 Acq: 24 Jan 2020 15:56

Tgt Ion: 156 Resp: 6507
 Ion Ratio Lower Upper
 156 100
 77 32.2 104.7 313.9#
 158 0.0 48.6 145.8#

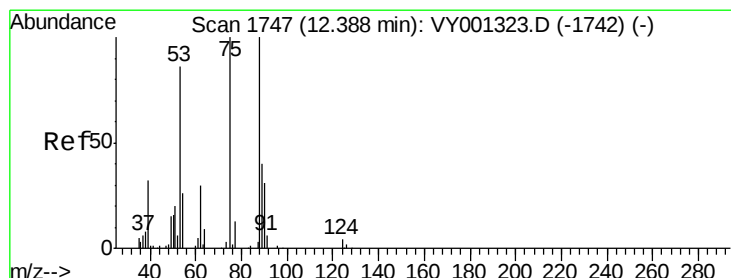
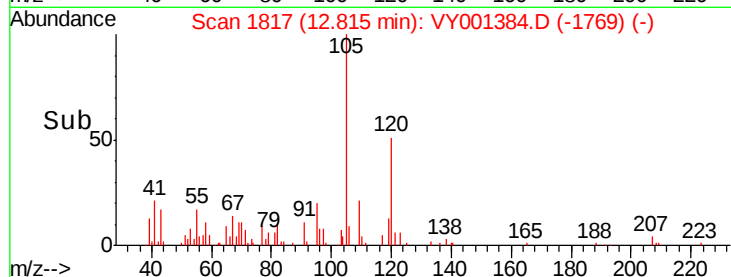
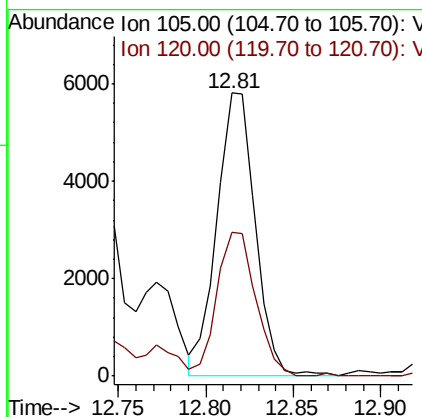
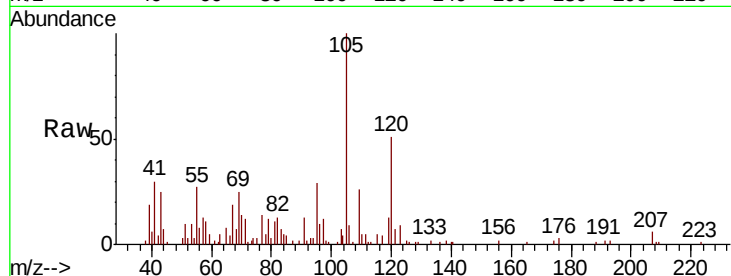




#80
 1,3,5-Trimethylbenzene
 Concen: 1.403 ug/l
 RT: 12.81 min Scan# 1817
 Delta R.T. -0.01 min
 Lab File: VY001384.D
 Acq: 24 Jan 2020 15:56

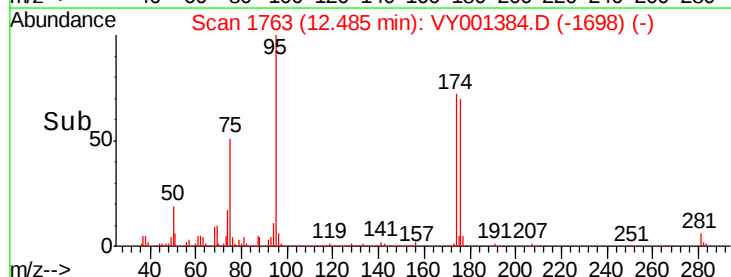
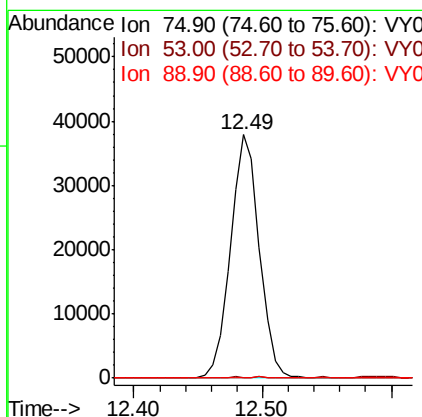
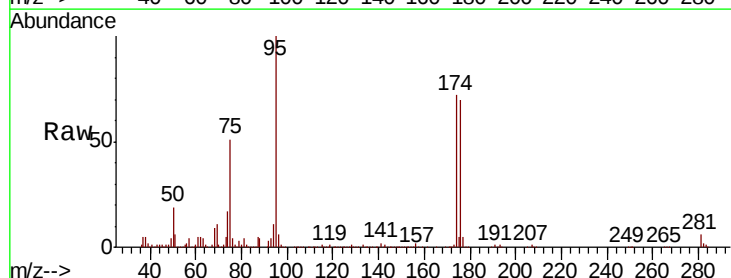
Instrument :
 MSVOA_Y
 ClientSampleId :

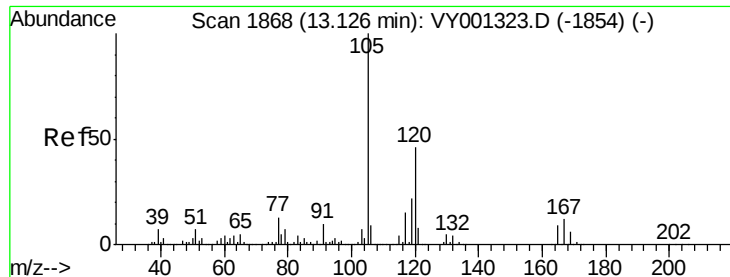
Tot Ion:105 Resp: 8894
 Ion Ratio Lower Upper
 105 100
 120 51.5 24.3 72.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 96.125 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. 0.10 min
 Lab File: VY001384.D
 Acq: 24 Jan 2020 15:56

Tgt Ion: 75 Resp: 58899
 Ion Ratio Lower Upper
 75 100
 53 0.3 69.9 104.9#
 89 0.0 36.6 54.8#

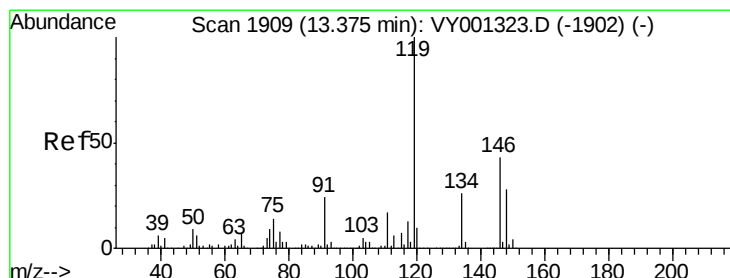
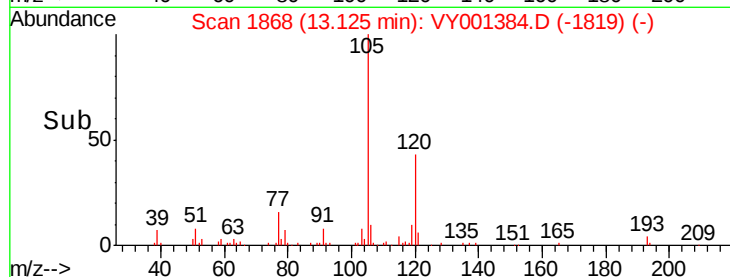
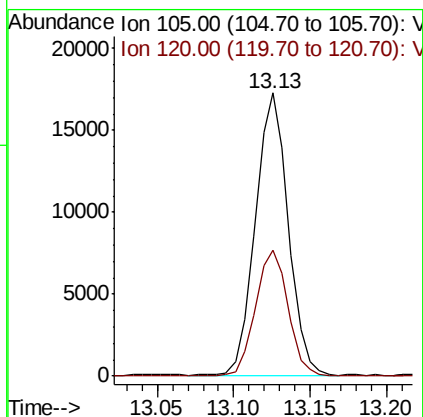
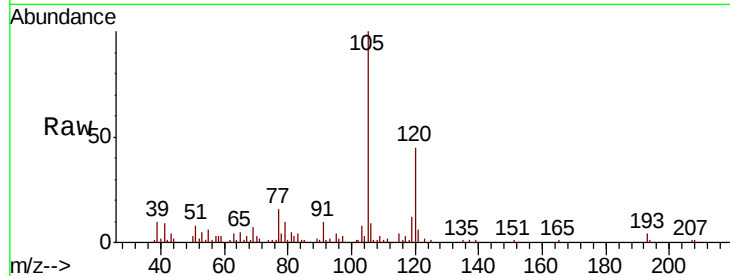




#84
 1,2,4-Trimethylbenzene
 Concen: 4.089 ug/l
 RT: 13.13 min Scan# 1868
 Delta R.T. -0.00 min
 Lab File: VY001384.D
 Acq: 24 Jan 2020 15:56

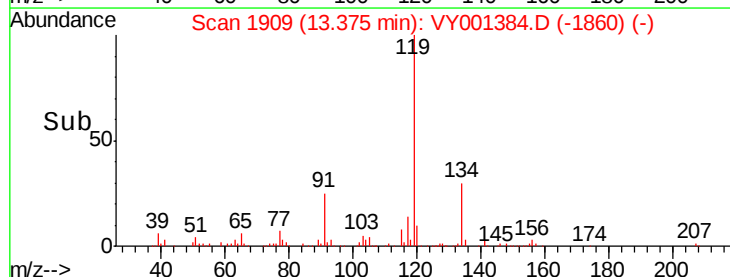
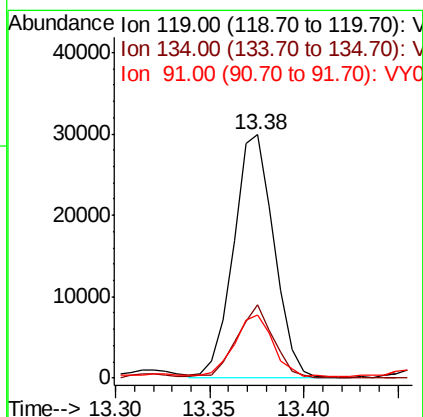
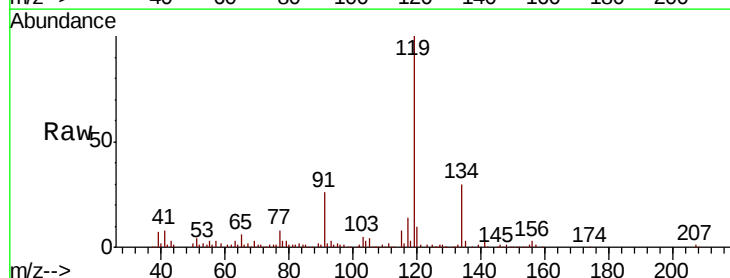
Instrument :
 MSVOA_Y
 ClientSampleId :

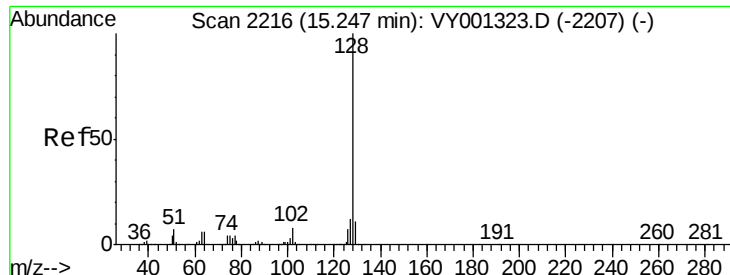
Tot Ion:105 Resp: 26021
 Ion Ratio Lower Upper
 105 100
 120 43.8 22.4 67.3



#86
 p-Isopropyltoluene
 Concen: 6.665 ug/l
 RT: 13.38 min Scan# 1909
 Delta R.T. -0.00 min
 Lab File: VY001384.D
 Acq: 24 Jan 2020 15:56

Tgt Ion:119 Resp: 44580
 Ion Ratio Lower Upper
 119 100
 134 27.4 13.5 40.4
 91 24.2 12.2 36.6





#95

Naphthalene

Concen: 43.670 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY001384.D

Acq: 24 Jan 2020 15:56

Instrument :

MSVOA_Y

ClientSampleId :

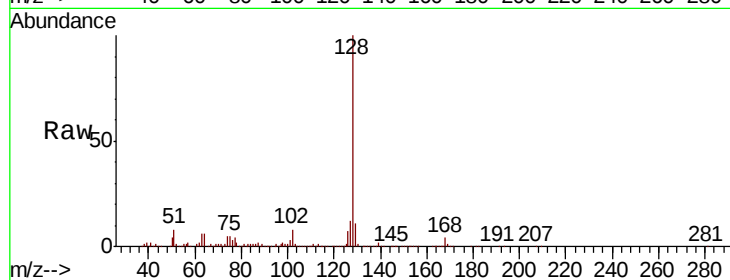
Tot Ion:128 Resp: 200193

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.2

129 11.1 8.7 13.1



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

