

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY011020\
 Data File : VY001160.D
 Acq On : 10 Jan 2020 20:17
 Operator : SY/MD
 Sample : L1073-01
 Misc : 7.07G/5ML/MSVOA Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 CIY1-SB-03-21.5-22

Quant Time: Jan 11 03:08:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y011020S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 10 16:01:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	155206	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	286790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	261429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	112178	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	84722	51.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.36%	
35) Dibromofluoromethane	7.73	113	84701	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
50) Toluene-d8	10.18	98	339408	52.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.92%	
62) 4-Bromofluorobenzene	12.48	95	122643	46.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.74%	

Target Compounds

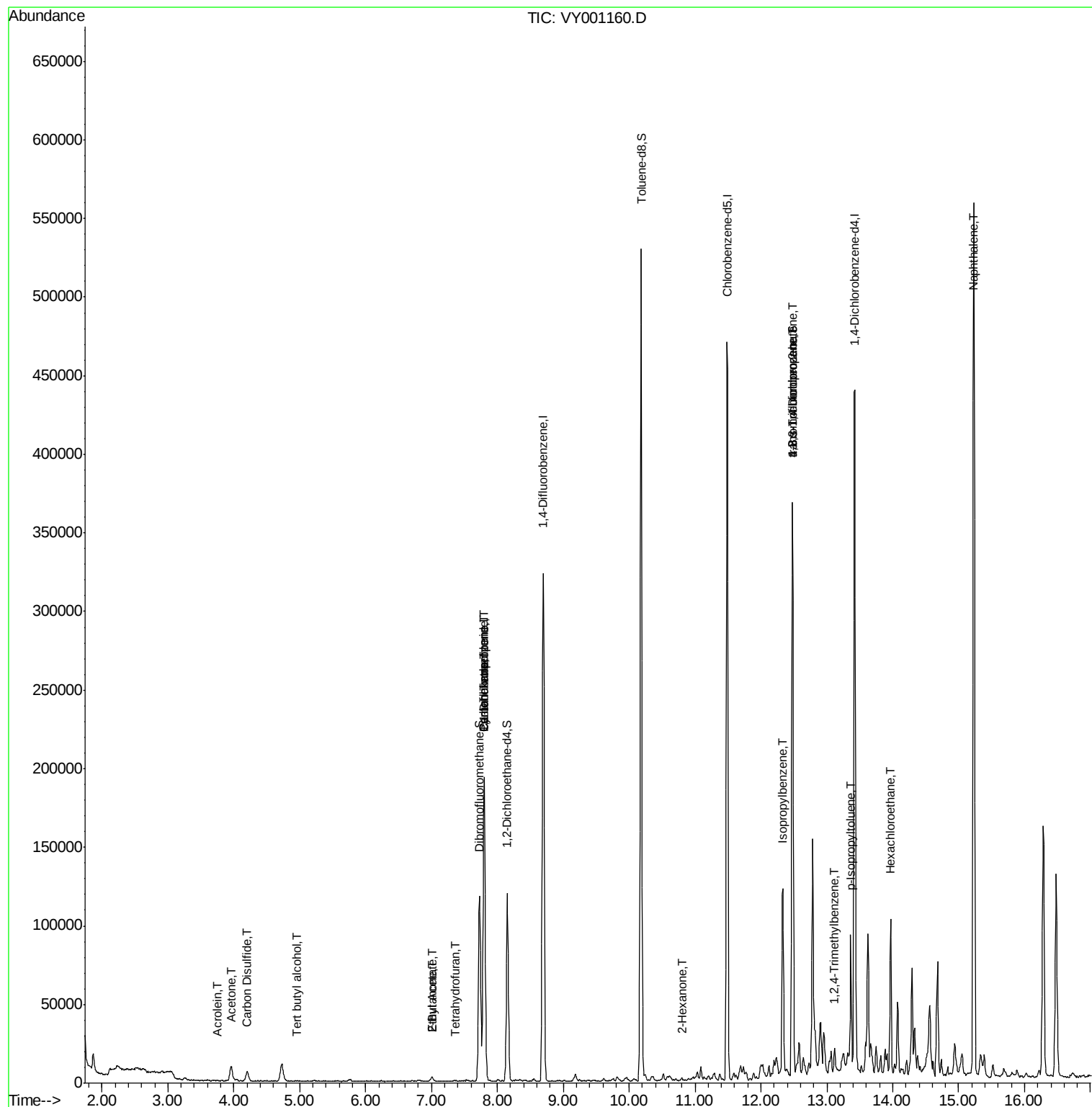
						Qvalue
11) Tert butyl alcohol	4.96	59	252	1.528	ug/l #	73
13) Acrolein	3.76	56	188	1.266	ug/l #	14
16) Acetone	3.96	43	17038	44.754	ug/l	99
17) Carbon Disulfide	4.20	76	12130	2.362	ug/l	96
20) Methylene Chloride	4.73	84	8399	Below Cal		94
25) 2-Butanone	7.01	43	4701	7.934	ug/l #	87
29) Tetrahydrofuran	7.36	42	542	1.335	ug/l #	59
31) Cyclohexane	7.80	56	3434	1.083	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	11591	4.434	ug/l #	49
37) Ethyl Acetate	7.01	43	4701	3.064	ug/l #	67
38) Carbon Tetrachloride	7.80	117	14847	6.198	ug/l #	15
59) 2-Hexanone	10.80	43	1187	1.138	ug/l #	23
73) Isopropylbenzene	12.33	105	23998	2.846	ug/l	93
76) 1,2,3-Trichloropropane	12.48	75	58327	48.570	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	58327	82.365	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.11	105	9041	1.294	ug/l	95
86) p-Isopropyltoluene	13.36	119	46633	6.314	ug/l	99
90) Hexachloroethane	13.97	117	4204	2.913	ug/l #	14
95) Naphthalene	15.23	128	453893	90.348	ug/l	99

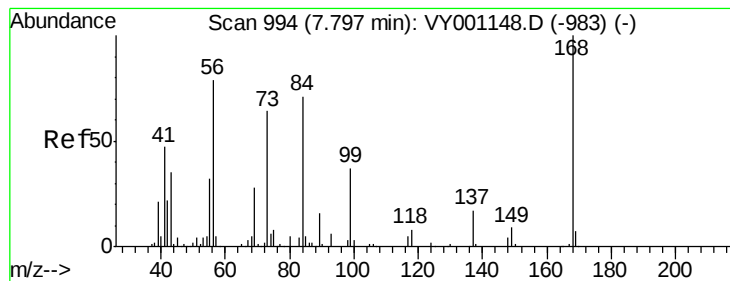
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

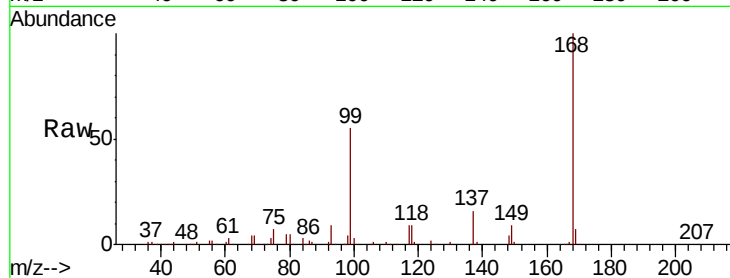
CIY1-SB-03-21.5-22

Tot Ion:168 Resp: 155206

Ion Ratio Lower Upper

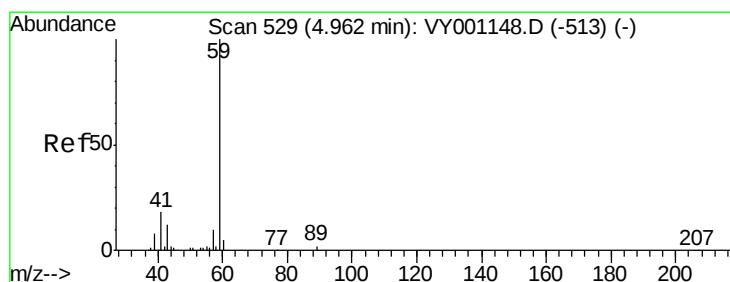
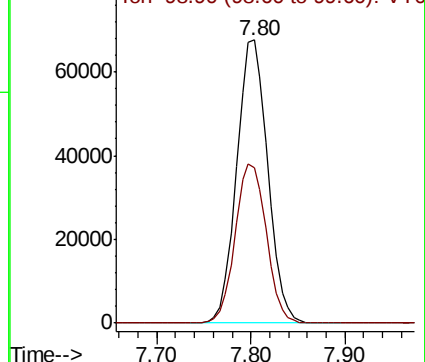
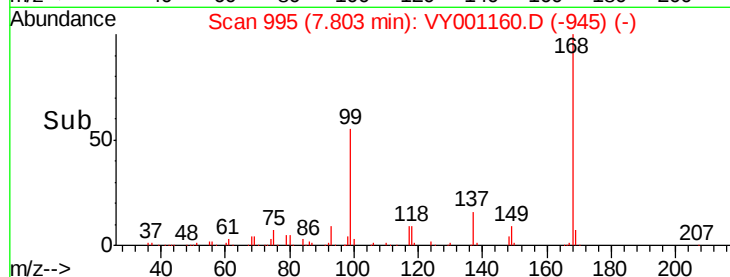
168 100

99 55.1 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VY001160.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY001160.D (-945) (-)



#11

Tert butyl alcohol

Concen: 1.528 ug/l

RT: 4.96 min Scan# 528

Delta R.T. -0.01 min

Lab File: VY001160.D

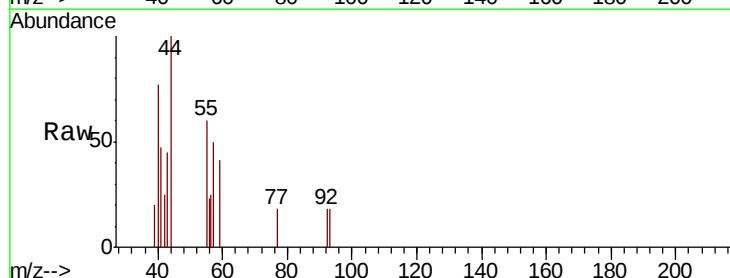
Acq: 10 Jan 2020 20:17

Tgt Ion: 59 Resp: 252

Ion Ratio Lower Upper

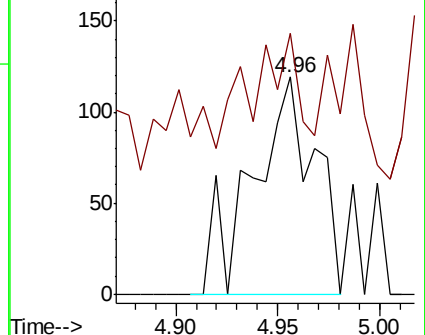
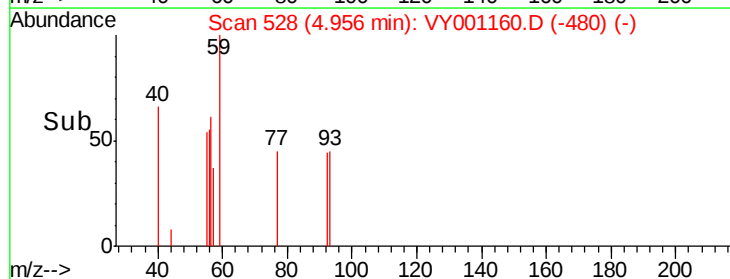
59 100

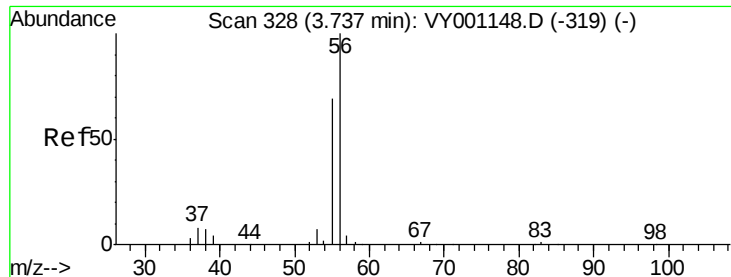
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VY001160.D (-480) (-)

Ion 57.00 (56.70 to 57.70): VY001160.D (-480) (-)





#13

Acrolein

Concen: 1.266 ug/l

RT: 3.76 min Scan# 331

Delta R.T. 0.02 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

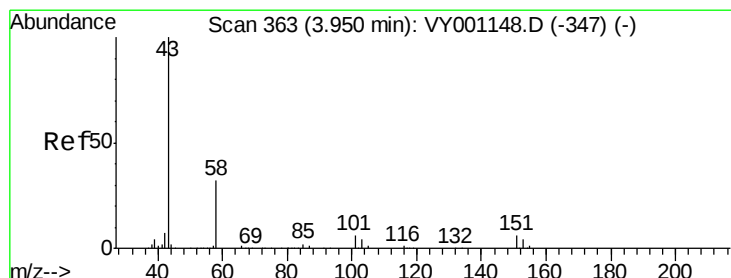
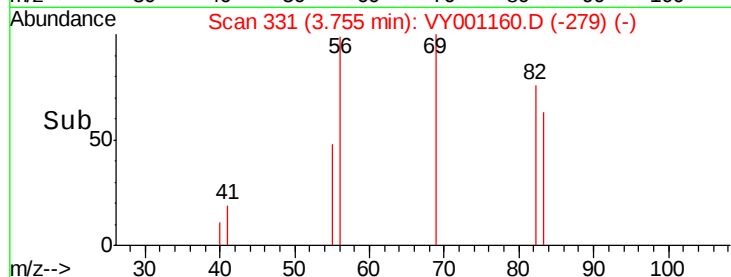
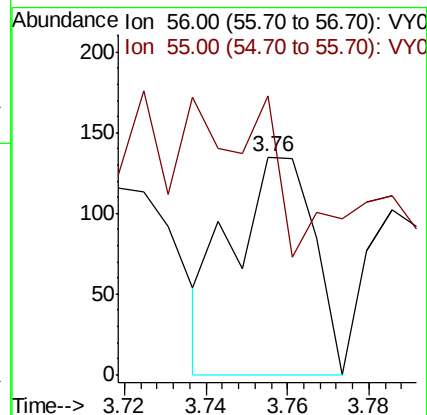
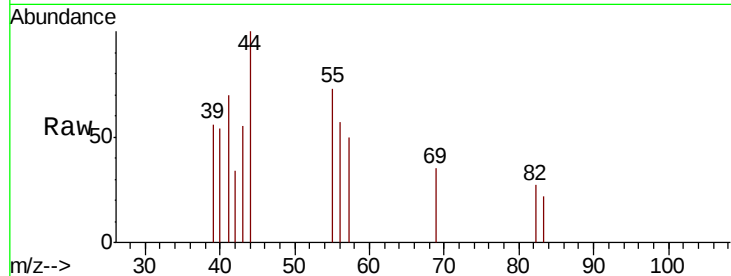
CIY1-SB-03-21.5-22

Tot Ion: 56 Resp: 188

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 44.754 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY001160.D

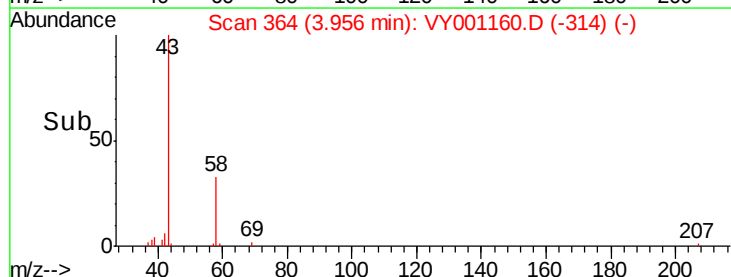
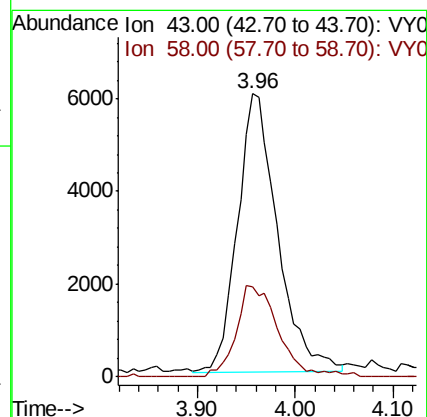
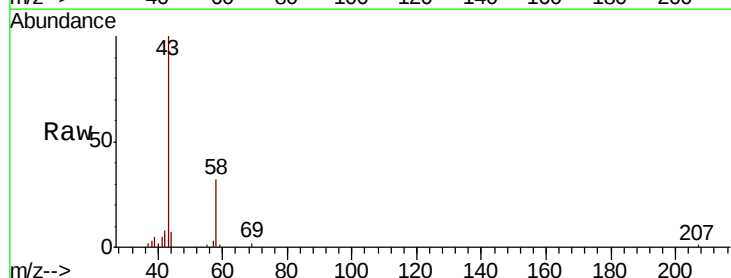
Acq: 10 Jan 2020 20:17

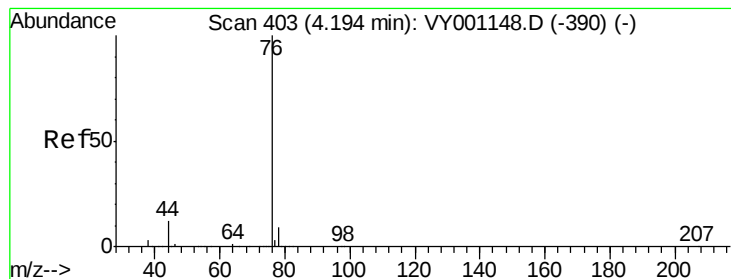
Tgt Ion: 43 Resp: 17038

Ion Ratio Lower Upper

43 100

58 32.7 25.8 38.6





#17

Carbon Disulfide

Concen: 2.362 ug/l

RT: 4.20 min Scan# 404

Delta R.T. 0.01 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

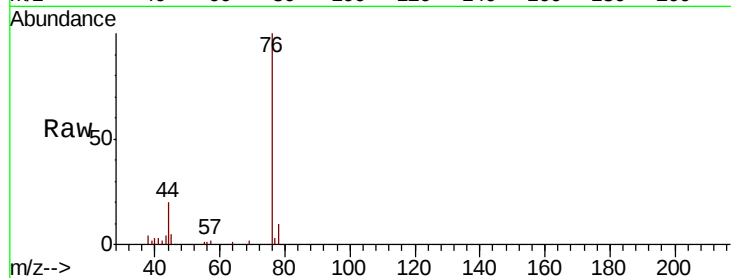
CIY1-SB-03-21.5-22

Tot Ion: 76 Resp: 12130

Ion Ratio Lower Upper

76 100

78 10.4 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VY001148.D (-390) (-)

Ion 77.90 (77.60 to 78.60): VY001148.D (-390) (-)

4.20

5000

4000

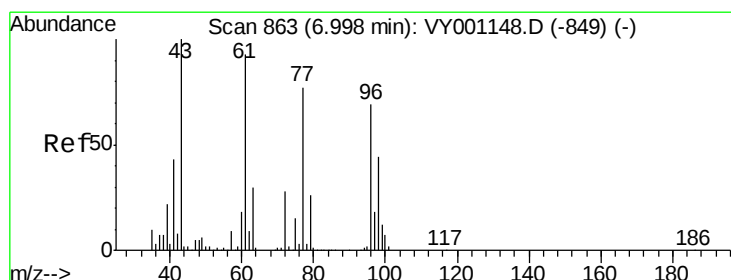
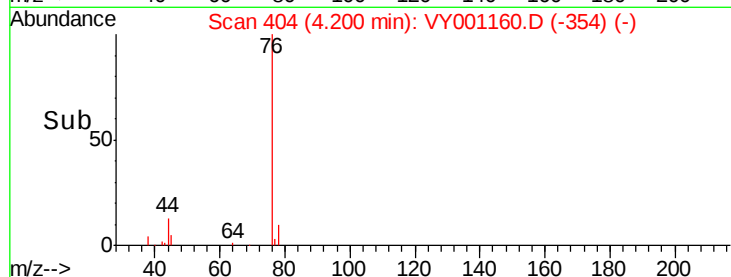
3000

2000

1000

0

Time--> 4.10 4.20 4.30



#25

2-Butanone

Concen: 7.934 ug/l

RT: 7.01 min Scan# 865

Delta R.T. 0.01 min

Lab File: VY001160.D

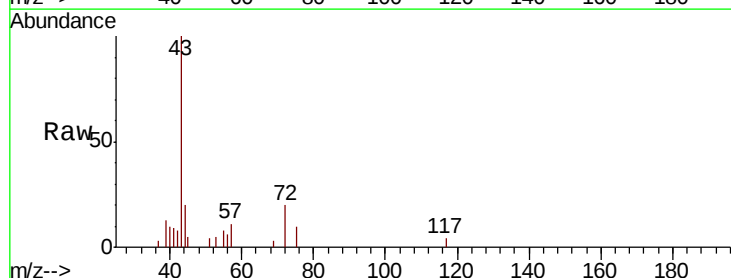
Acq: 10 Jan 2020 20:17

Tgt Ion: 43 Resp: 4701

Ion Ratio Lower Upper

43 100

72 21.0 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VY001148.D (-849) (-)

Ion 72.00 (71.70 to 72.70): VY001148.D (-849) (-)

7.01

2000

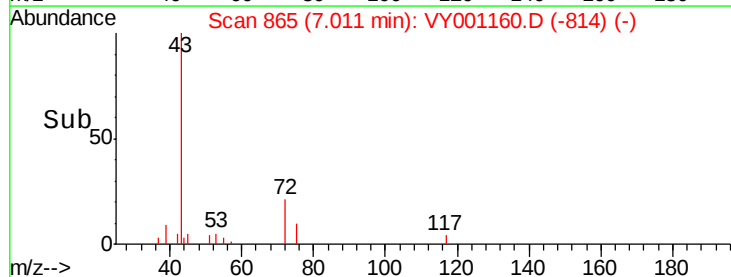
1500

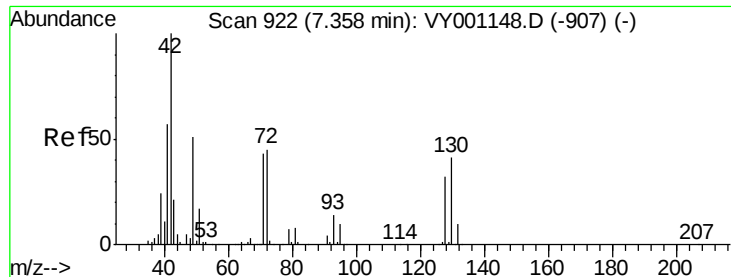
1000

500

0

Time--> 6.90 7.00 7.10





#29

Tetrahydrofuran

Concen: 1.335 ug/l

RT: 7.36 min Scan# 923

Delta R.T. 0.01 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

CIY1-SB-03-21.5-22

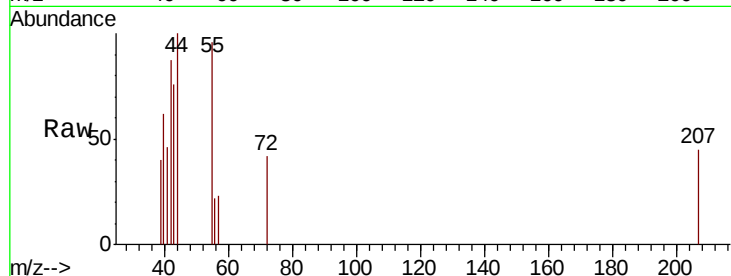
Tot Ion: 42 Resp: 542

Ion Ratio Lower Upper

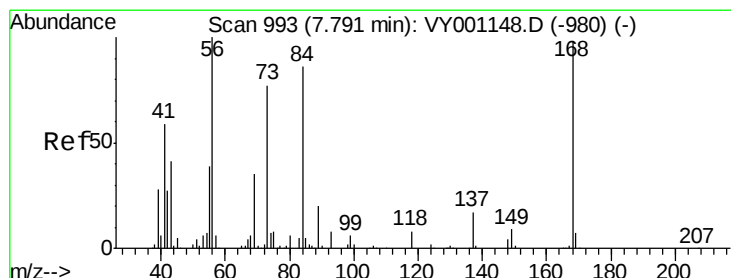
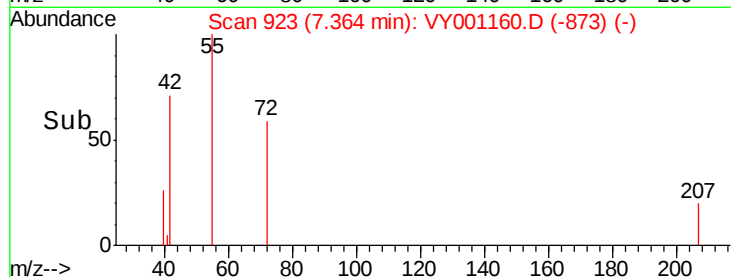
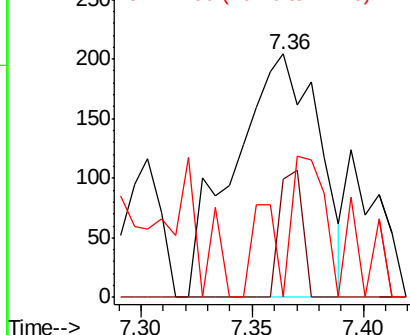
42 100

72 13.8 36.9 55.3#

71 21.6 34.0 51.0#



Abundance Ion 42.00 (41.70 to 42.70): VY0
Ion 72.00 (71.70 to 72.70): VY0
Ion 71.00 (70.70 to 71.70): VY0



#31

Cyclohexane

Concen: 1.083 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

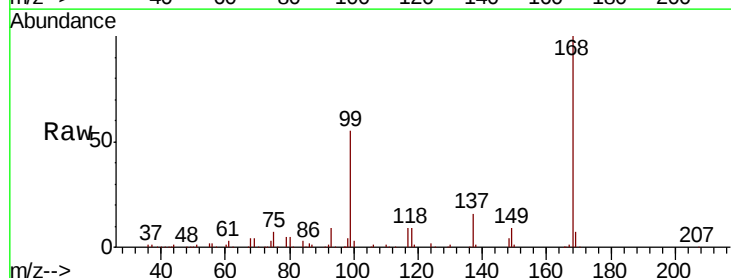
Tgt Ion: 56 Resp: 3434

Ion Ratio Lower Upper

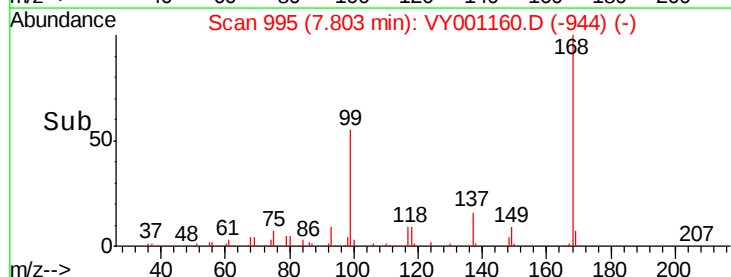
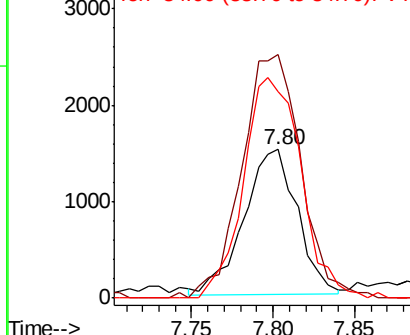
56 100

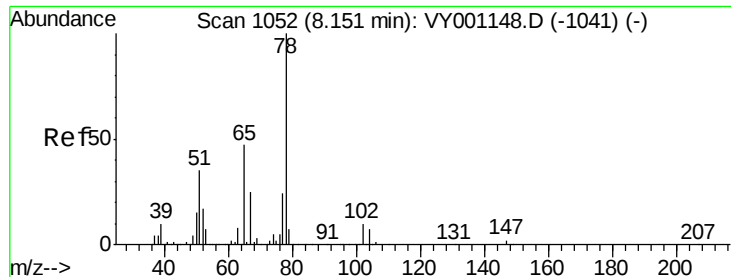
69 172.8 27.8 41.8#

84 146.8 68.9 103.3#



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: 51.683 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

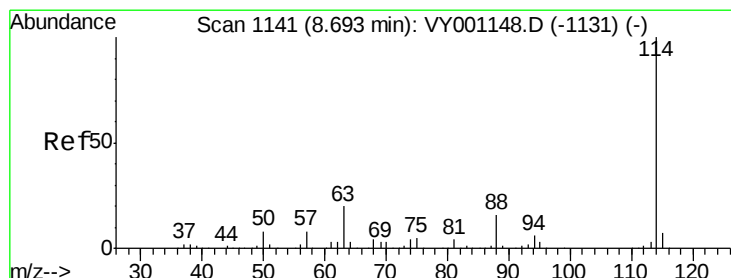
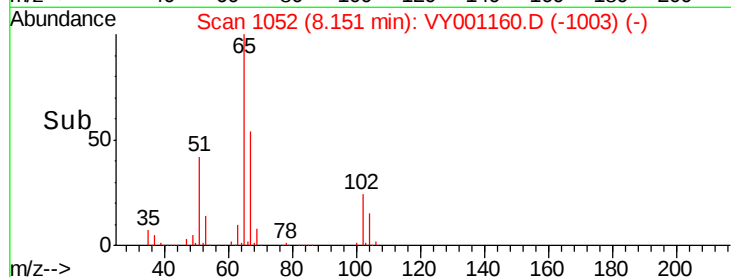
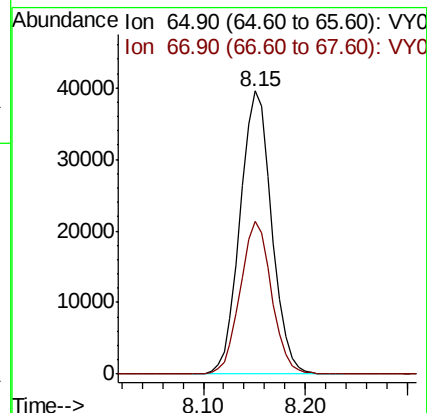
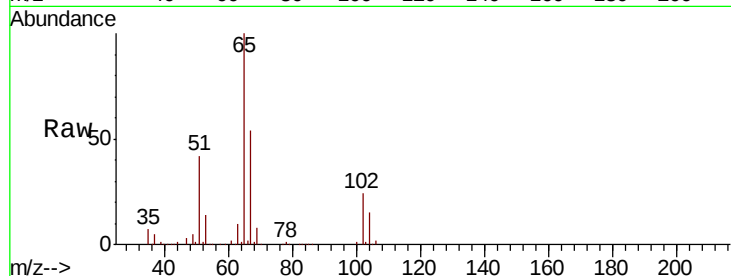
CIY1-SB-03-21.5-22

Tot Ion: 65 Resp: 84722

Ion Ratio Lower Upper

65 100

67 53.6 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. 0.01 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

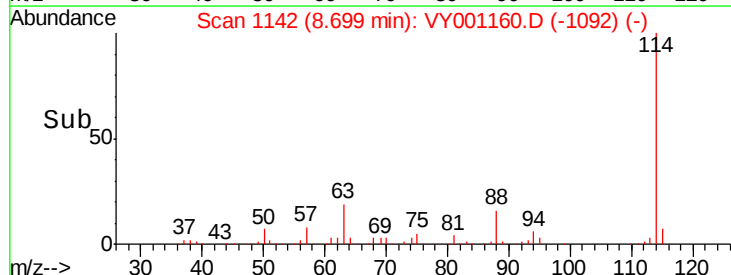
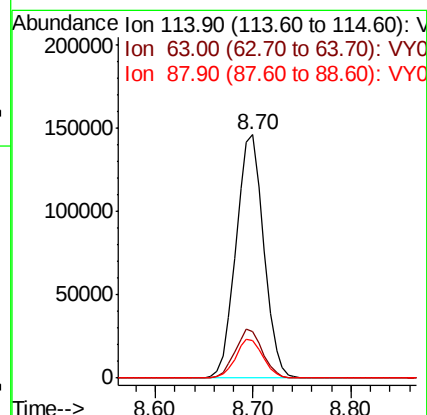
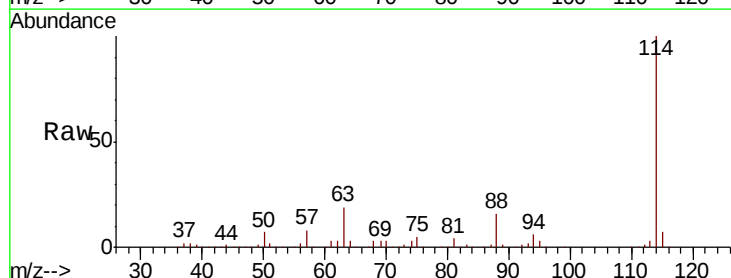
Tgt Ion: 114 Resp: 286790

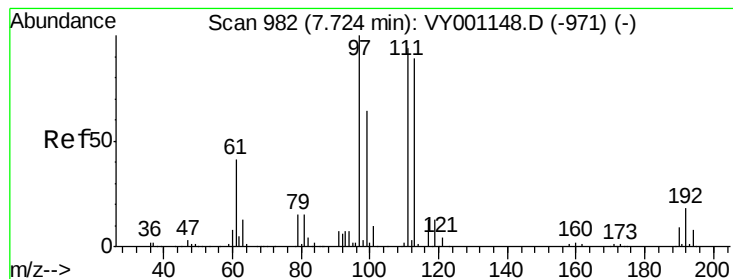
Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.8

88 15.7 0.0 32.4





#35

Dibromofluoromethane

Concen: 50.443 ug/l

RT: 7.73 min Scan# 983

Delta R.T. 0.01 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

Instrument :

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CIY1-SB-03-21.5-22

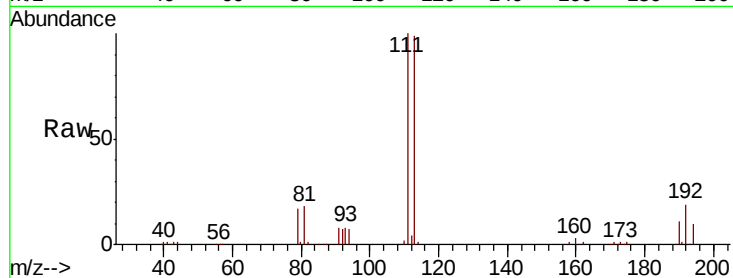
Tot Ion:113 Resp: 84701

Ion Ratio Lower Upper

113 100

111 102.2 82.9 124.3

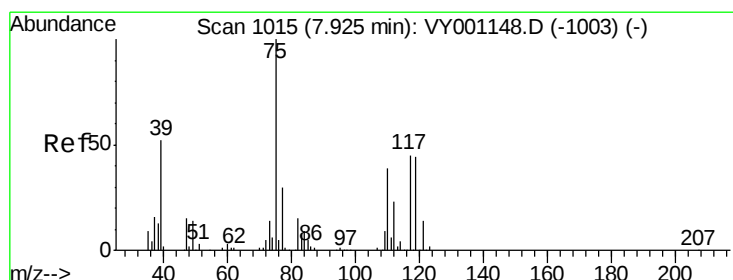
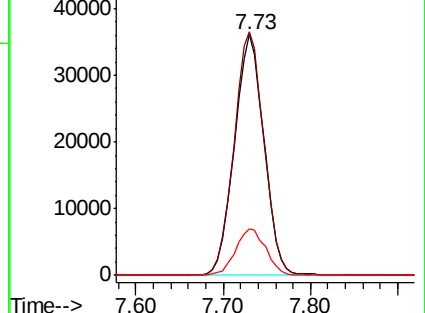
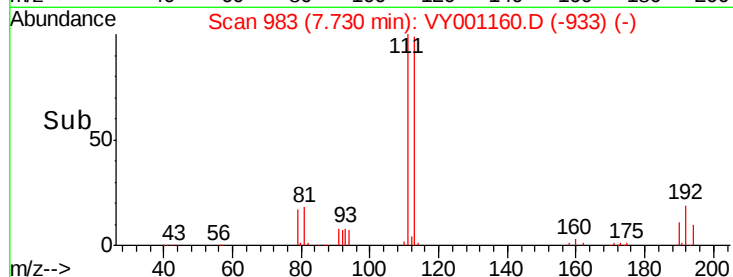
192 19.5 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.434 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

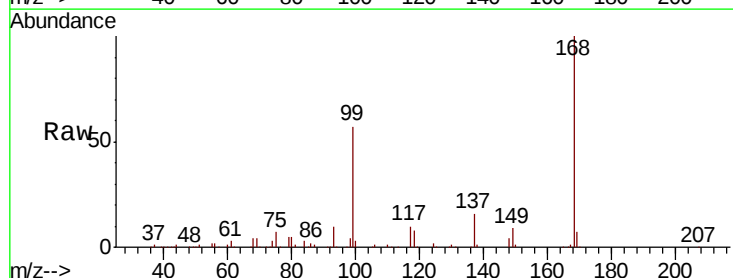
Tgt Ion: 75 Resp: 11591

Ion Ratio Lower Upper

75 100

110 9.1 18.3 54.8#

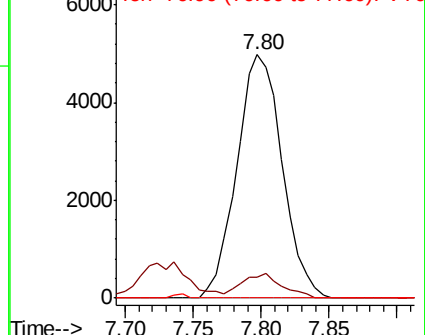
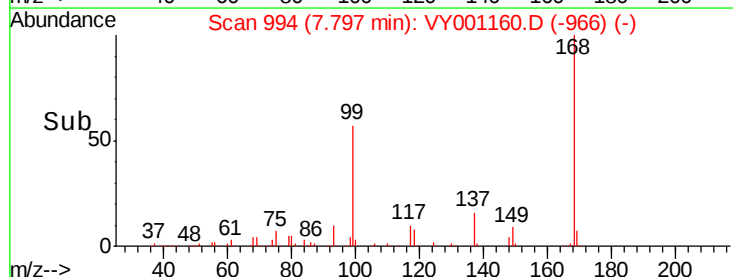
77 0.0 25.1 37.7#

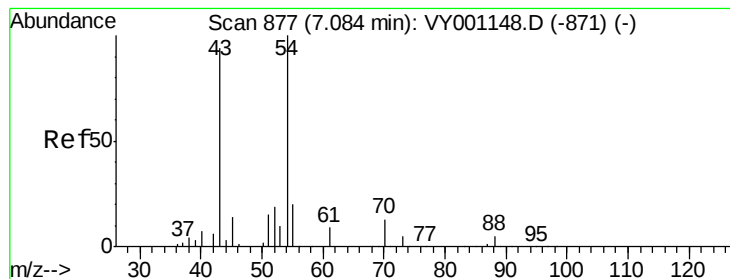


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0





#37

Ethyl Acetate

Concen: 3.064 ug/l

RT: 7.01 min Scan# 865

Delta R.T. -0.07 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

Instrument :

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ClientSampleId :

CIY1-SB-03-21.5-22

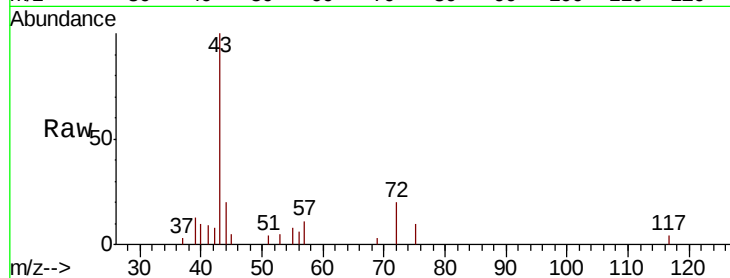
Tot Ion: 43 Resp: 4701

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

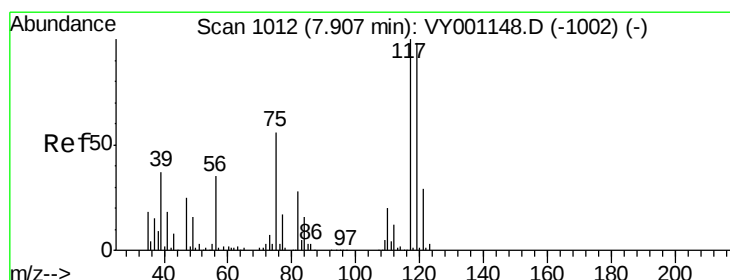
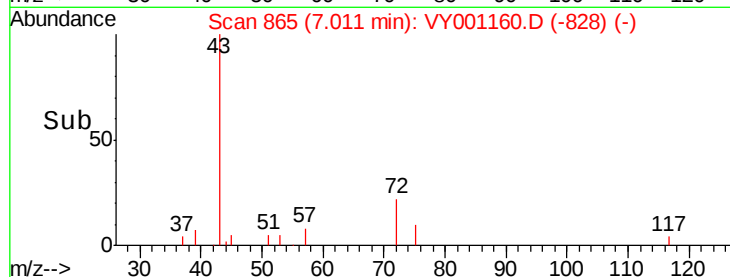
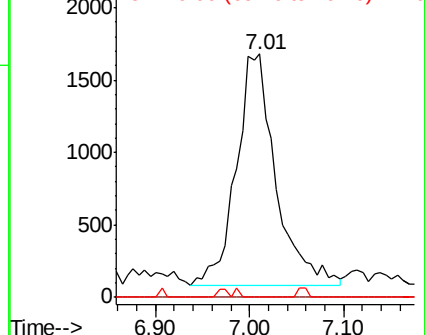
70 0.0 9.7 14.5#



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: 6.198 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

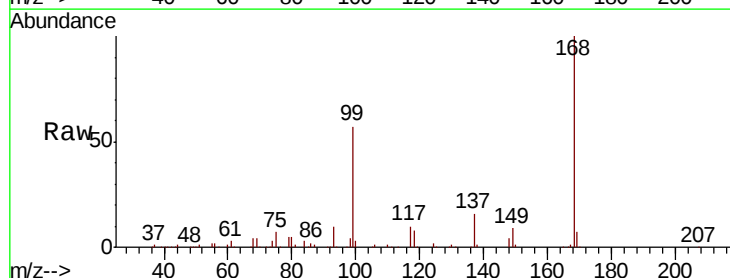
Tgt Ion: 117 Resp: 14847

Ion Ratio Lower Upper

117 100

119 4.5 78.3 117.5#

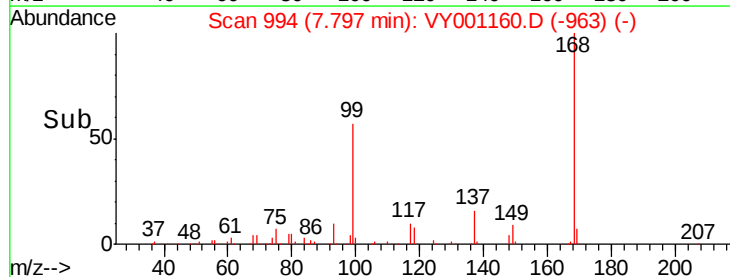
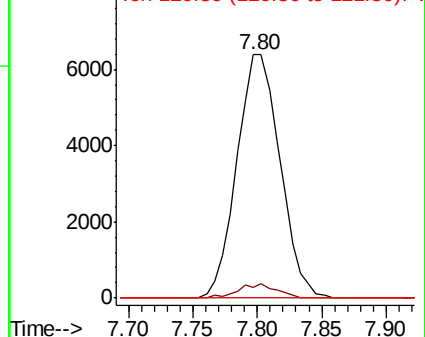
121 0.0 23.5 35.3#

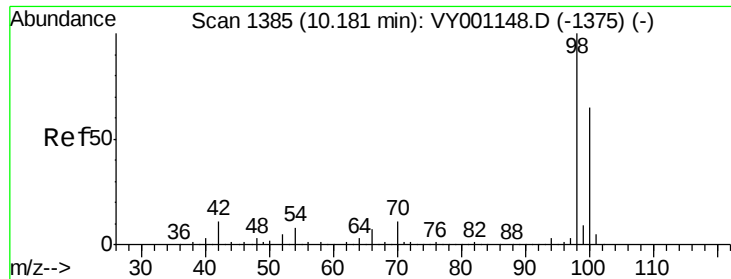


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 52.459 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY001160.D

Acq: 10 Jan 2020 20:17

Instrument :

MSVOA_Y

ClientSampleId :

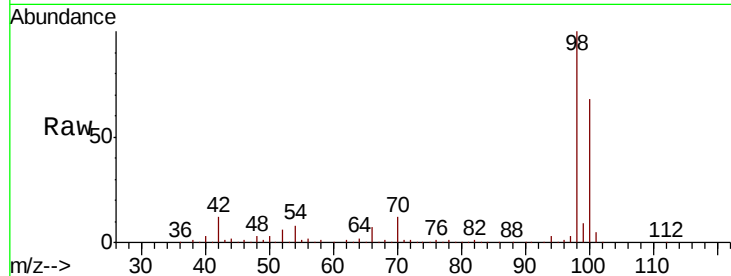
CIY1-SB-03-21.5-22

Tot Ion: 98 Resp: 339408

Ion Ratio Lower Upper

98 100

100 66.5 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0

10.18

200000

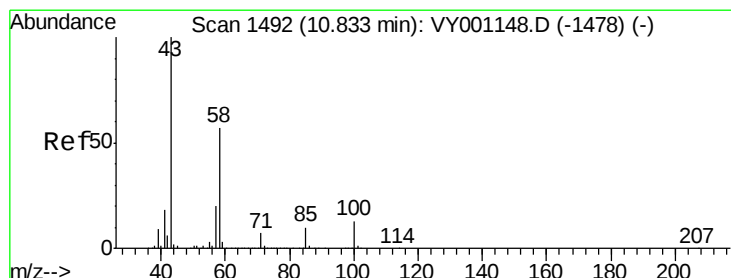
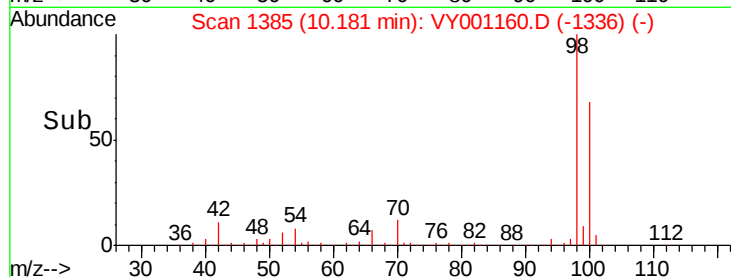
150000

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 1.138 ug/l

RT: 10.80 min Scan# 1487

Delta R.T. -0.03 min

Lab File: VY001160.D

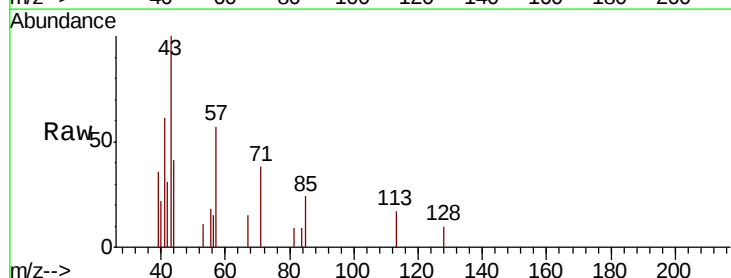
Acq: 10 Jan 2020 20:17

Tgt Ion: 43 Resp: 1187

Ion Ratio Lower Upper

43 100

58 0.0 28.4 85.2#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

10.80

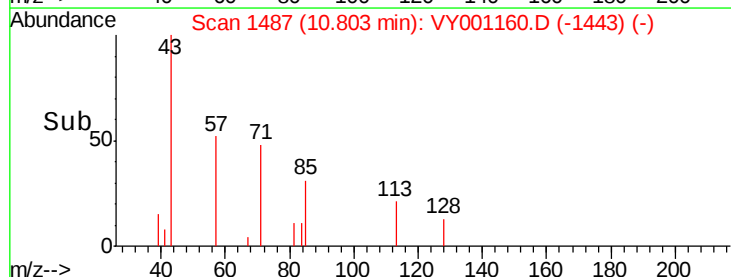
600

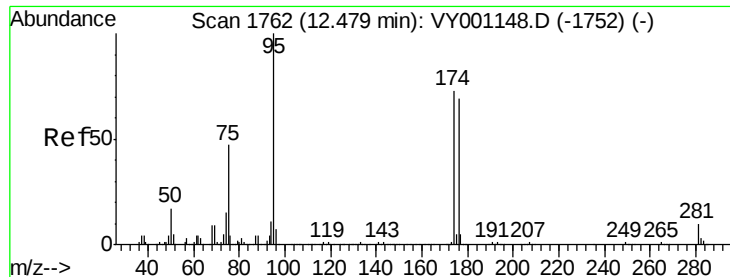
400

200

0

Time-->

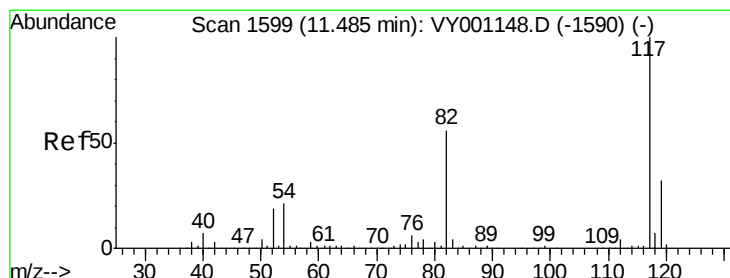
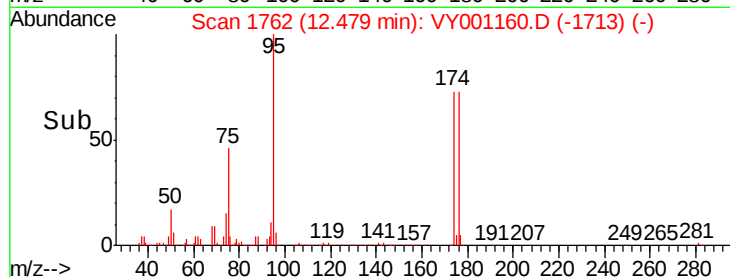
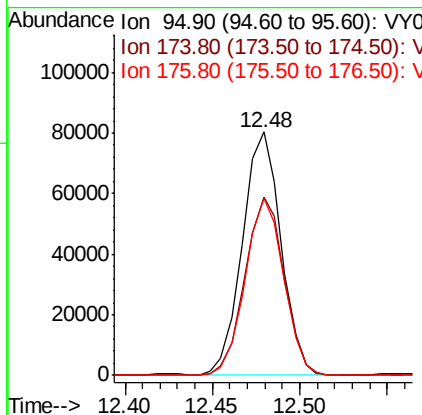
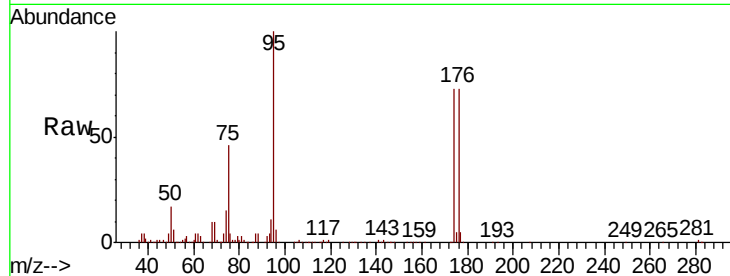




#62
4-Bromofluorobenzene
Concen: 46.365 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY001160.D
Acq: 10 Jan 2020 20:17

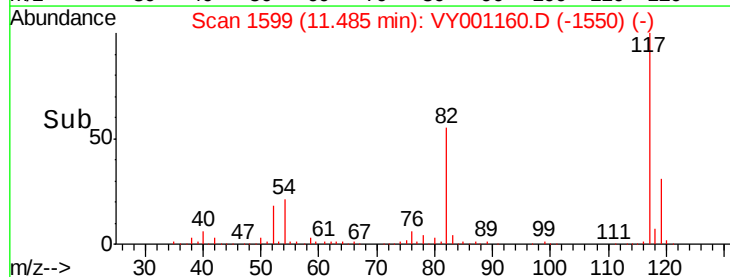
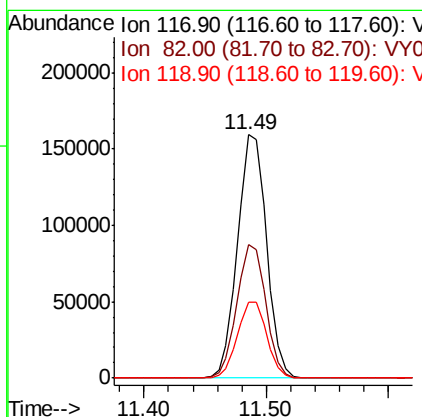
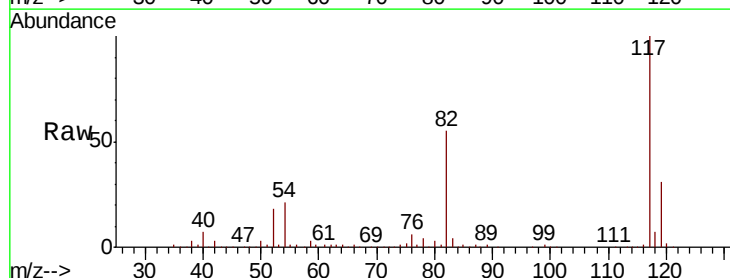
Instrument :
MSVOA_Y
ClientSampleId :
CIY1-SB-03-21.5-22

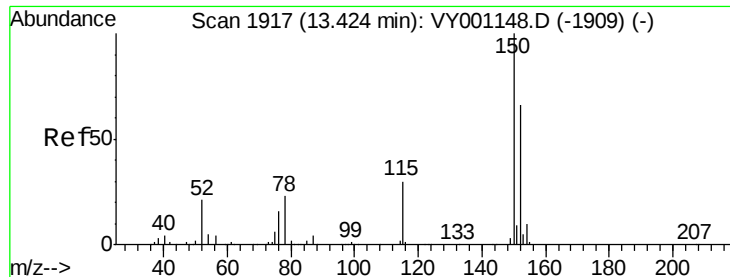
Tot Ion	95	Resp	122643
Ion Ratio	Lower	Upper	
95	100		
174	74.6	0.0	143.2
176	72.6	0.0	136.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VY001160.D
Acq: 10 Jan 2020 20:17

Tgt Ion	117	Resp	261429
Ion Ratio	Lower	Upper	
117	100		
82	54.8	44.9	67.3
119	31.3	25.7	38.5



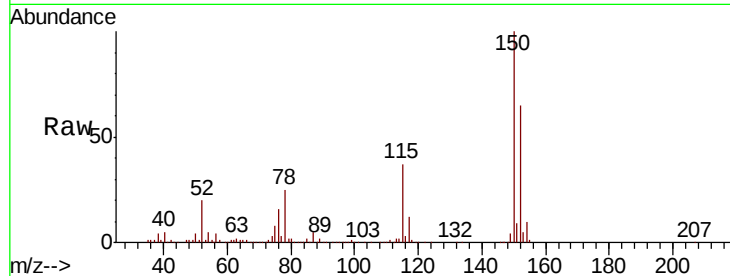


#72

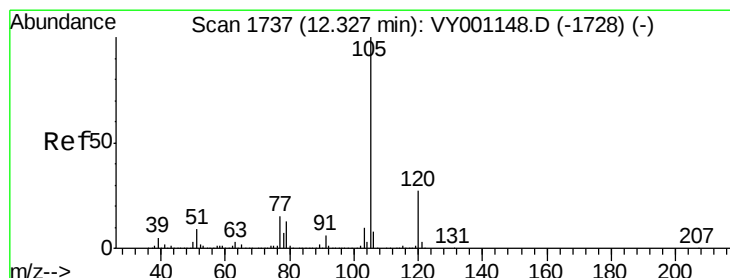
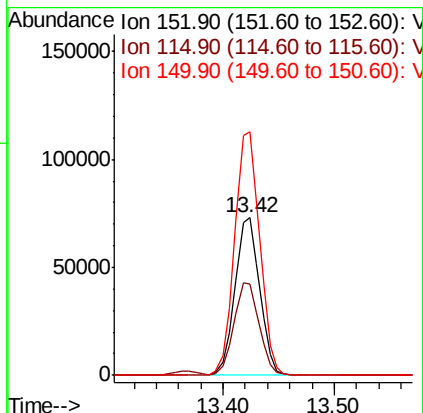
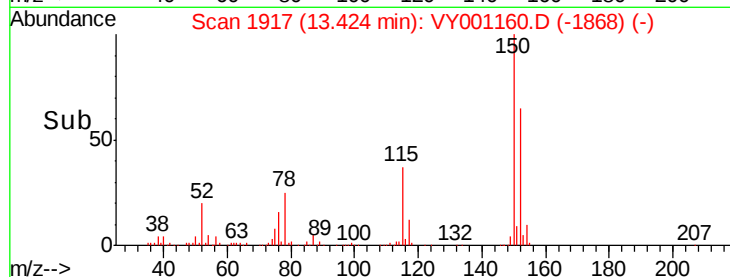
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY001160.D
Acq: 10 Jan 2020 20:17

Instrument :
MSVOA_Y
ClientSampleId :
CIY1-SB-03-21.5-22

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.9	92.5
150	156.2	0.0	346.8



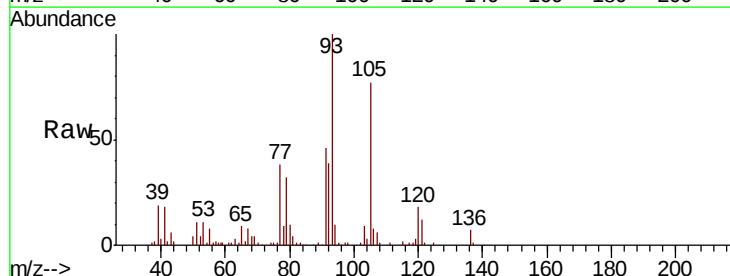
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



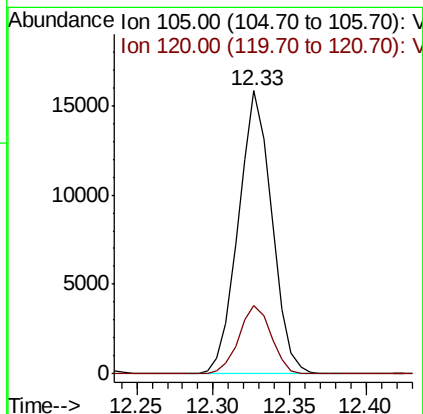
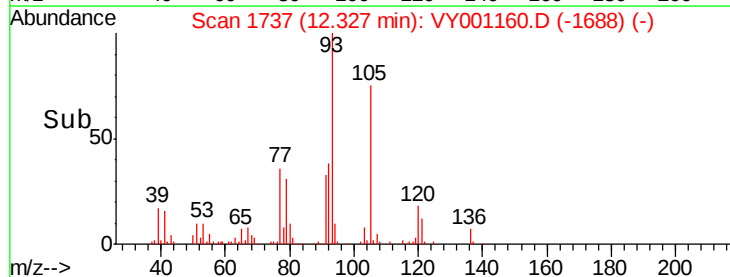
#73

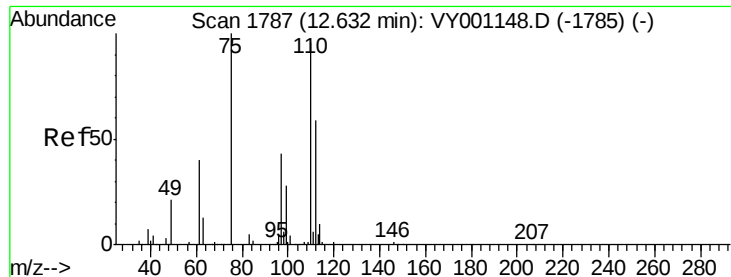
Isopropylbenzene
Concen: 2.846 ug/l
RT: 12.33 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VY001160.D
Acq: 10 Jan 2020 20:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.4	13.4	40.2



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

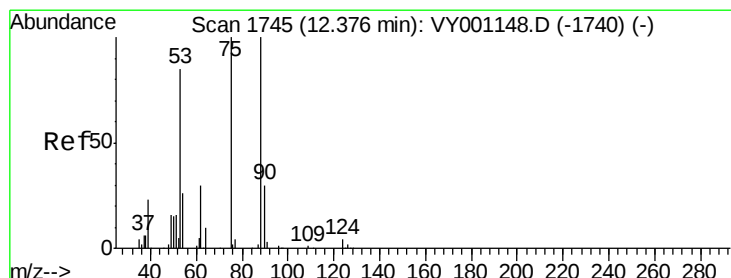
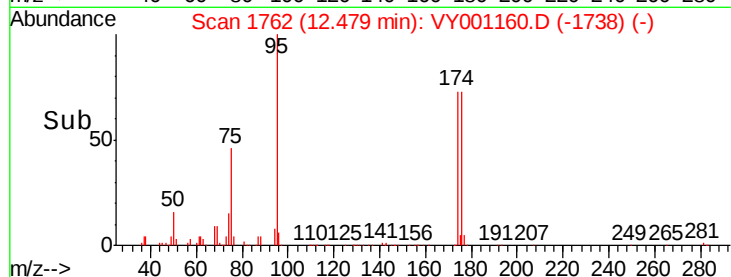
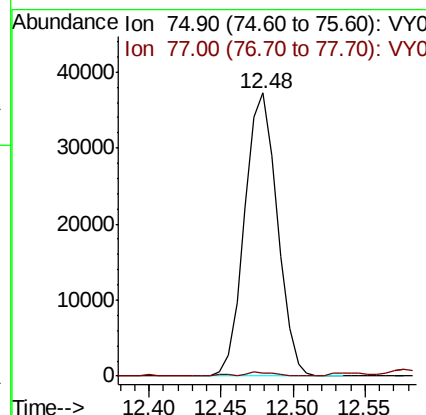
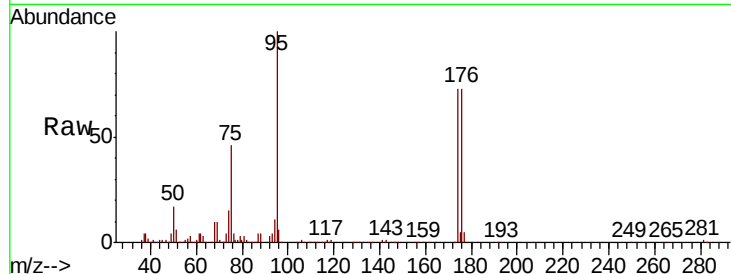




#76
 1,2,3-Trichloropropane
 Concen: 48.570 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.15 min
 Lab File: VY001160.D
 Acq: 10 Jan 2020 20:17

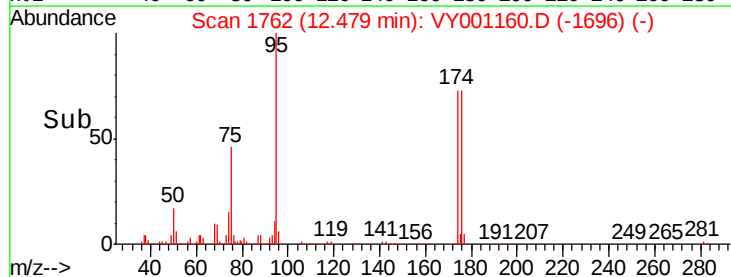
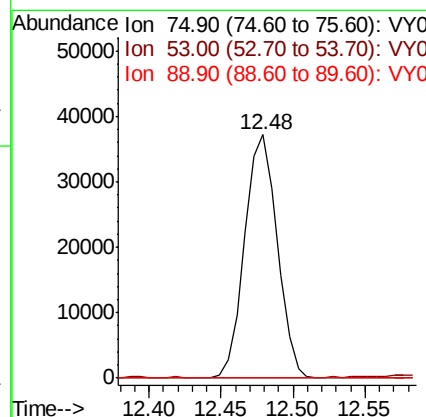
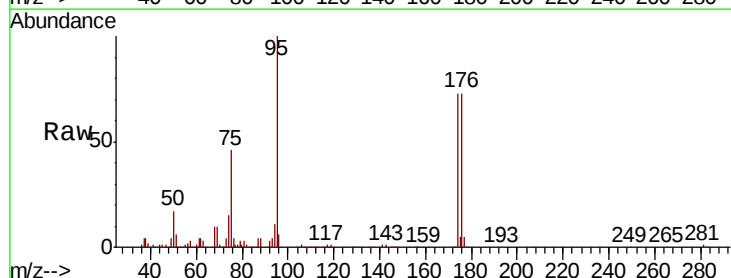
Instrument :
 MSVOA_Y
 ClientSampleId :
 CIY1-SB-03-21.5-22

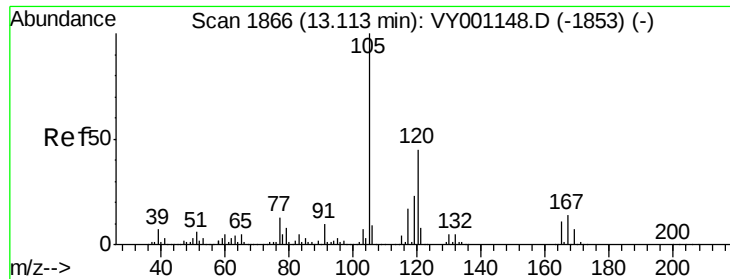
Tot Ion: 75 Resp: 58327
 Ion Ratio Lower Upper
 75 100
 77 1.8 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 82.365 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.10 min
 Lab File: VY001160.D
 Acq: 10 Jan 2020 20:17

Tgt Ion: 75 Resp: 58327
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.4 104.2#
 89 0.0 0.0 0.0#

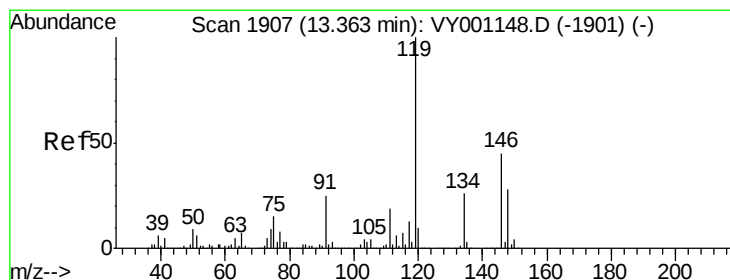
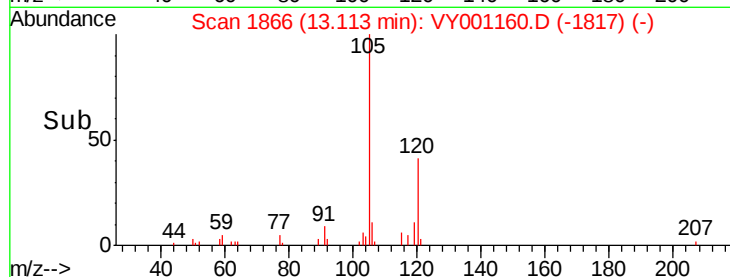
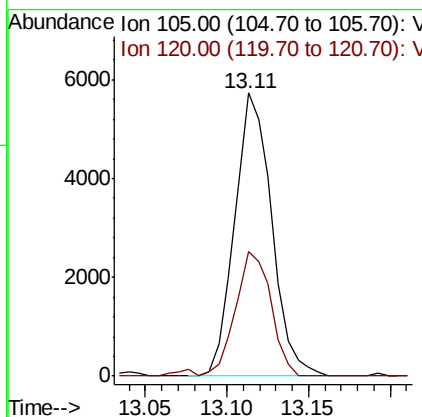
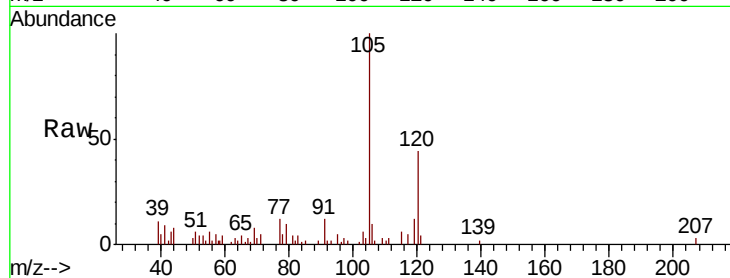




#84
 1,2,4-Trimethylbenzene
 Concen: 1.294 ug/l
 RT: 13.11 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VY001160.D
 Acq: 10 Jan 2020 20:17

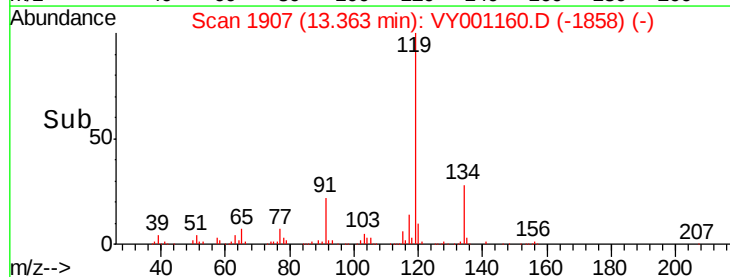
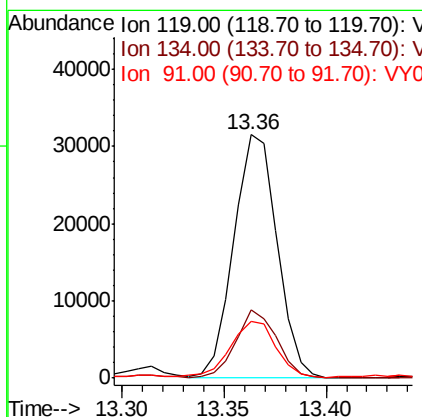
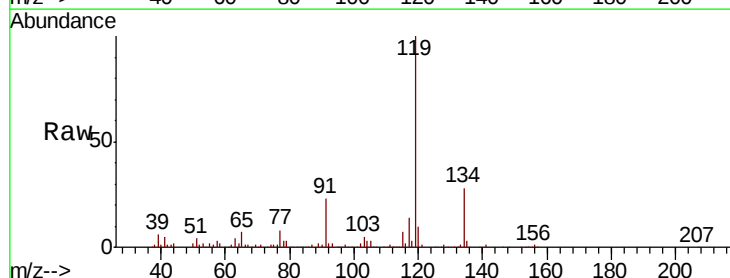
Instrument :
 MSVOA_Y
 ClientSampleId :
 CIY1-SB-03-21.5-22

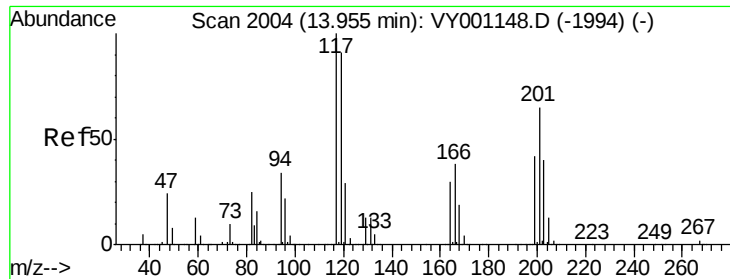
Tot Ion:105 Resp: 9041
 Ion Ratio Lower Upper
 105 100
 120 42.1 22.8 68.3



#86
 p-Isopropyltoluene
 Concen: 6.314 ug/l
 RT: 13.36 min Scan# 1907
 Delta R.T. -0.00 min
 Lab File: VY001160.D
 Acq: 10 Jan 2020 20:17

Tgt Ion:119 Resp: 46633
 Ion Ratio Lower Upper
 119 100
 134 26.3 13.4 40.2
 91 24.0 12.4 37.2

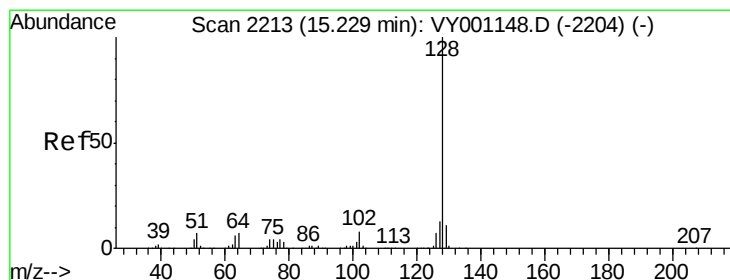
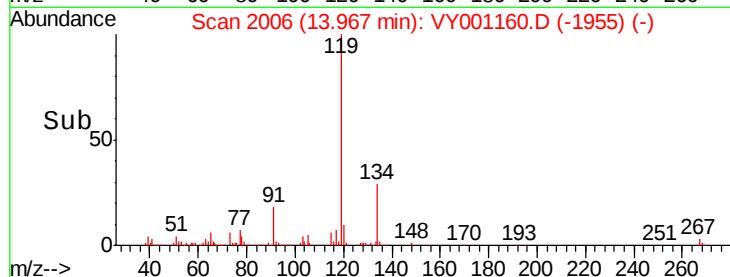
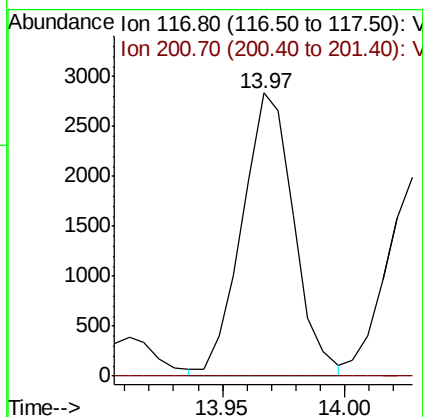
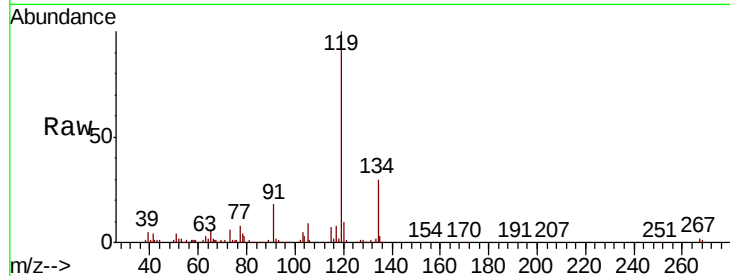




#90
Hexachloroethane
Concen: 2.913 ug/l
RT: 13.97 min Scan# 2006
Delta R.T. 0.01 min
Lab File: VY001160.D
Acq: 10 Jan 2020 20:17

Instrument :
MSVOA_Y
ClientSampleId :
CIY1-SB-03-21.5-22

Tot Ion:117 Resp: 4204
Ion Ratio Lower Upper
117 100
201 0.0 35.4 106.2#



#95
Naphthalene
Concen: 90.348 ug/l
RT: 15.23 min Scan# 2213
Delta R.T. -0.00 min
Lab File: VY001160.D
Acq: 10 Jan 2020 20:17

Tgt Ion:128 Resp: 453893
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.4
129 10.9 8.5 12.7

