

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY063020\
 Data File : VY003033.D
 Acq On : 30 Jun 2020 14:25
 Operator : SY/MD
 Sample : L3128-03RE
 Misc : 7.54G/5ML/MSVOA Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jul 01 05:12:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y062920S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 30 04:11:35 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	365743	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	583660	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	484500	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	151588	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.14	65	194814	53.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.26%	
35) Dibromofluoromethane	7.72	113	193983	53.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.56%	
50) Toluene-d8	10.18	98	679635	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	
62) 4-Bromofluorobenzene	12.48	95	188430	39.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.92%	

Target Compounds

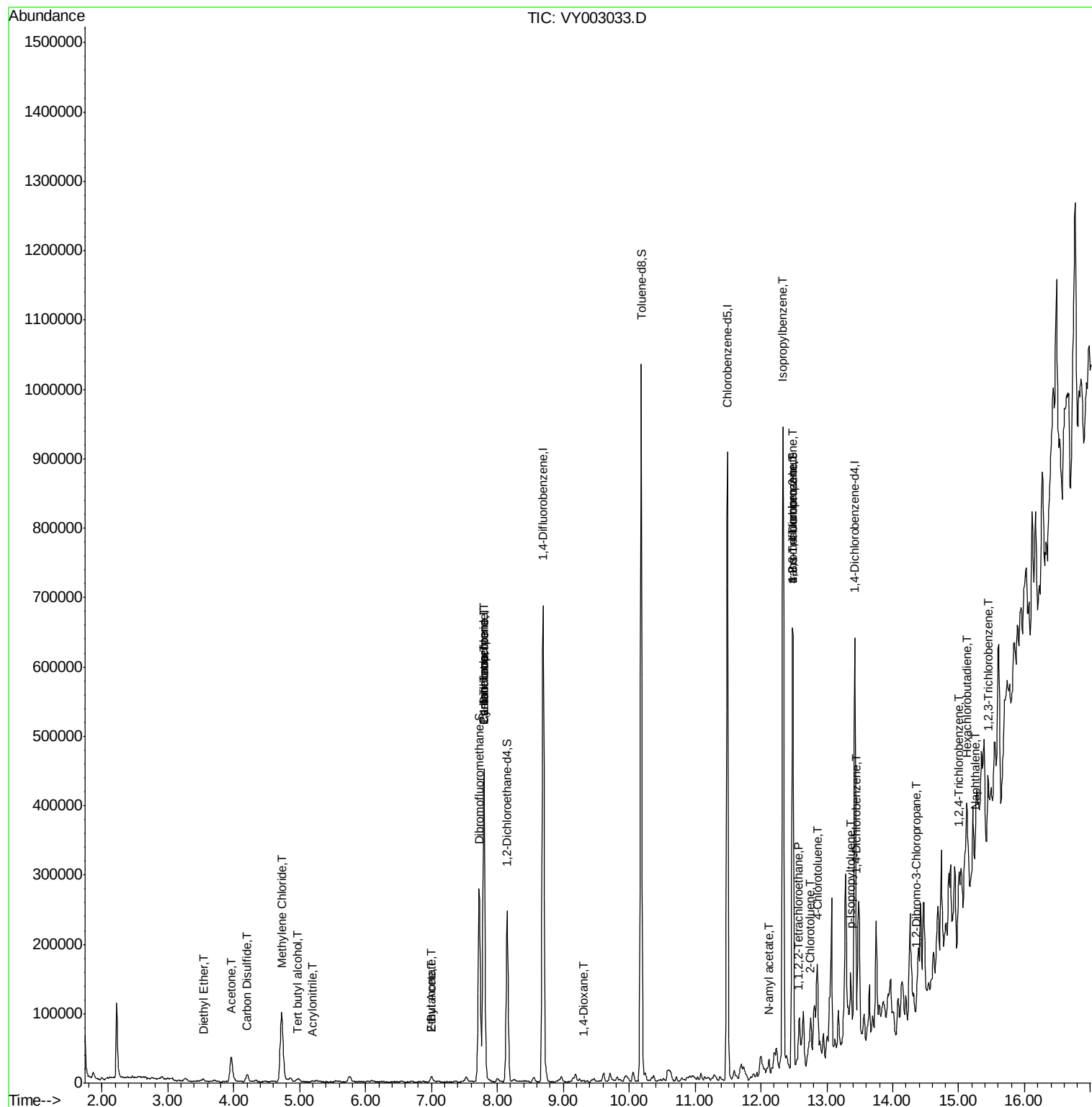
					Qvalue
8) Diethyl Ether	3.54	74	2353	1.229 ug/l	92
11) Tert butyl alcohol	4.97	59	10330	27.904 ug/l	96
15) Acrylonitrile	5.18	53	1057	1.071 ug/l #	85
16) Acetone	3.96	43	65895	76.914 ug/l	98
17) Carbon Disulfide	4.19	76	20060	1.979 ug/l #	91
20) Methylene Chloride	4.72	84	76416	15.126 ug/l	93
25) 2-Butanone	7.00	43	10690	7.855 ug/l	94
31) Cyclohexane	7.80	56	7269	1.138 ug/l #	4
36) 1,1-Dichloropropene	7.80	75	25391	4.516 ug/l #	51
37) Ethyl Acetate	7.00	43	10690	3.162 ug/l #	80
38) Carbon Tetrachloride	7.80	117	32297	5.521 ug/l #	16
49) 1,4-Dioxane	9.30	88	103	3.648 ug/l #	1
73) Isopropylbenzene	12.33	105	39965	4.028 ug/l #	60
74) N-amyl acetate	12.13	43	5902	1.827 ug/l #	51
75) 1,1,2,2-Tetrachloroethane	12.56	83	2349	1.173 ug/l #	33
76) 1,2,3-Trichloropropane	12.48	75	94166	62.767 ug/l #	100
79) 2-Chlorotoluene	12.75	91	32049	4.812 ug/l	98
81) trans-1,4-Dichloro-2-buten	12.48	75	94166	122.118 ug/l #	13
82) 4-Chlorotoluene	12.86	91	60125	8.671 ug/l	99
86) p-Isopropyltoluene	13.37	119	42713	4.575 ug/l	95
88) 1,4-Dichlorobenzene	13.45	146	5931	1.267 ug/l #	18
92) 1,2-Dibromo-3-Chloropropan	14.36	75	558	1.574 ug/l	81
93) 1,2,4-Trichlorobenzene	15.01	180	8861	2.799 ug/l #	84
94) Hexachlorobutadiene	15.12	225	2538	1.271 ug/l	92
95) Naphthalene	15.24	128	19482	3.369 ug/l #	90
96) 1,2,3-Trichlorobenzene	15.44	180	9606	3.494 ug/l #	77

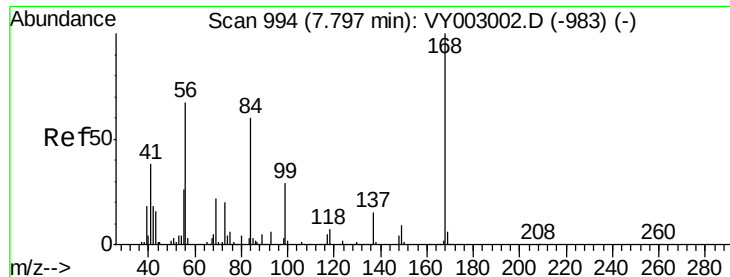
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 01 05:12:35 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y062920S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 30 04:11:35 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY003033.D

Acq: 30 Jun 2020 14:25

Instrument :

MSVOA_Y

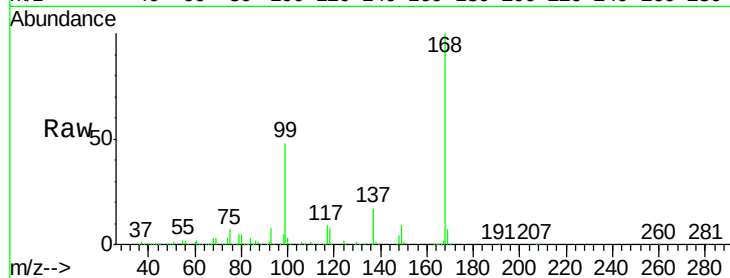
ClientSampleId :

Tot Ion:168 Resp: 365743

Ion Ratio Lower Upper

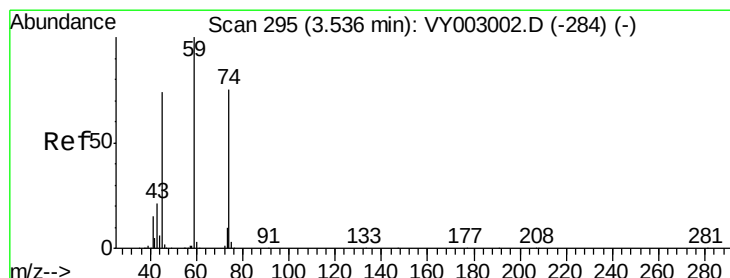
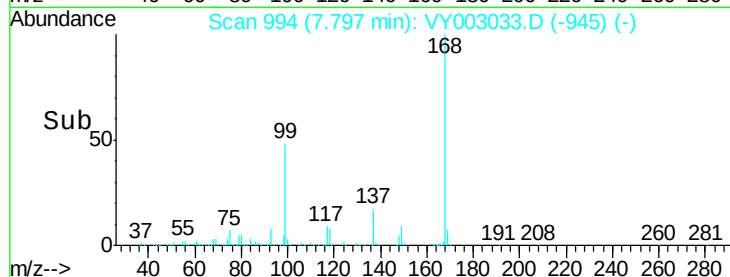
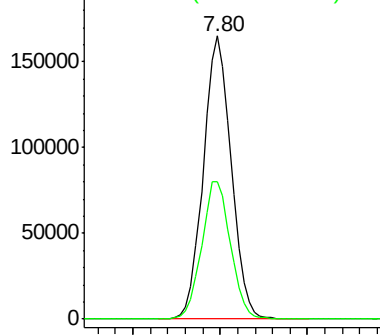
168 100

99 48.3 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VY0



#8

Diethyl Ether

Concen: 1.229 ug/l

RT: 3.54 min Scan# 295

Delta R.T. -0.00 min

Lab File: VY003033.D

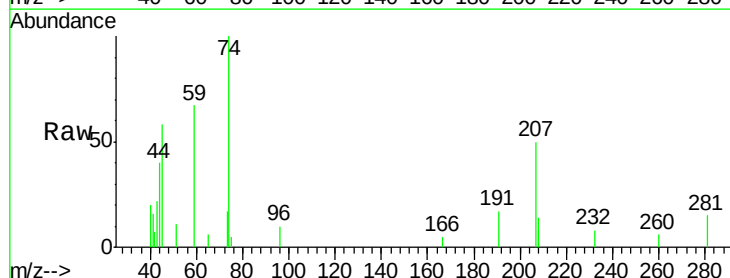
Acq: 30 Jun 2020 14:25

Tgt Ion: 74 Resp: 2353

Ion Ratio Lower Upper

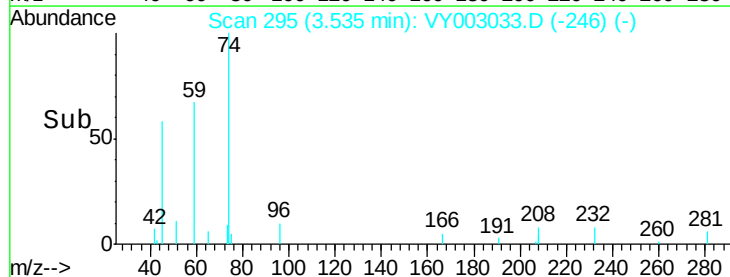
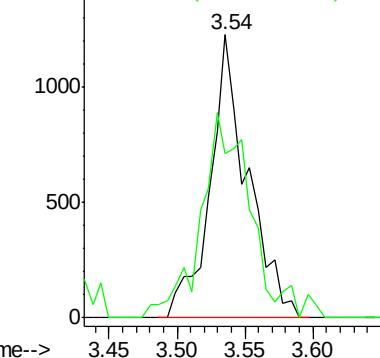
74 100

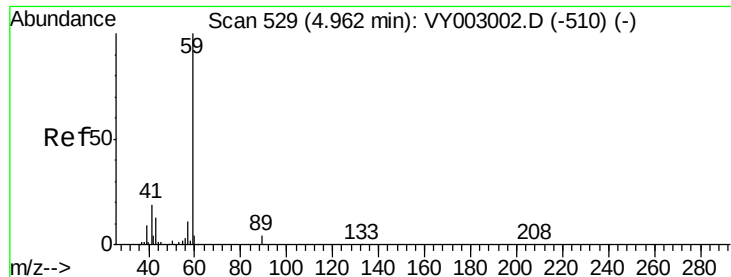
45 90.8 49.3 147.9



Abundance Ion 74.00 (73.70 to 74.70): VY0

Ion 45.00 (44.70 to 45.70): VY0



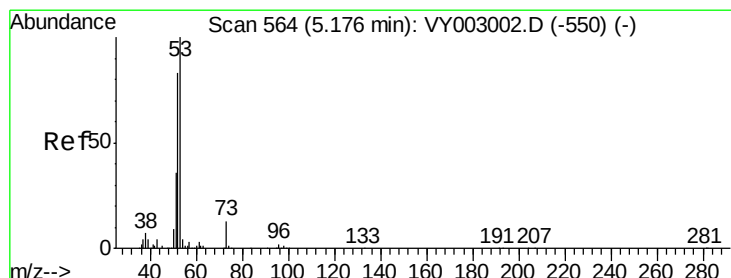
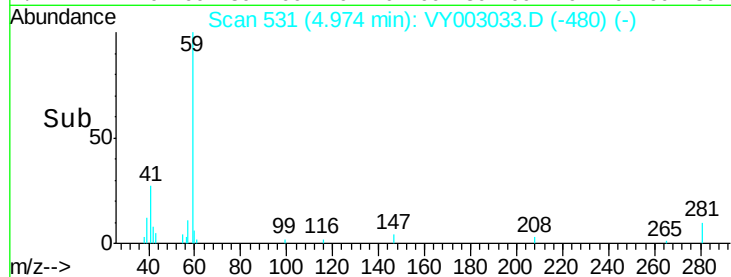
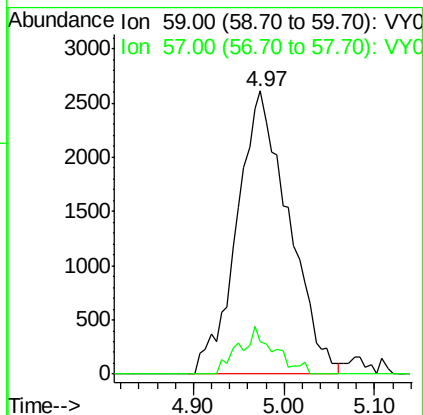
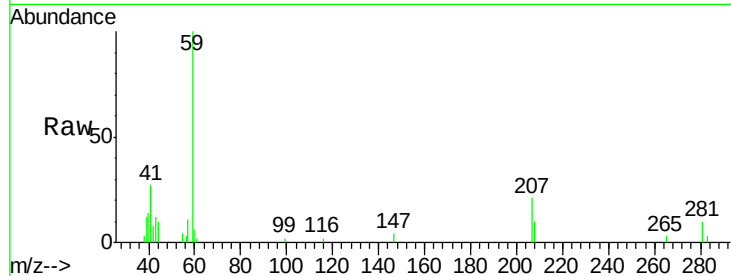


#11

Tert butyl alcohol
Concen: 27.904 ug/l
RT: 4.97 min Scan# 531
Delta R.T. 0.01 min
Lab File: VY003033.D
Acq: 30 Jun 2020 14:25

Instrument :
MSVOA_Y
ClientSampleId :

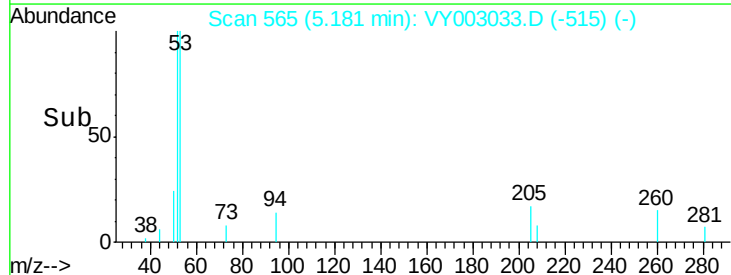
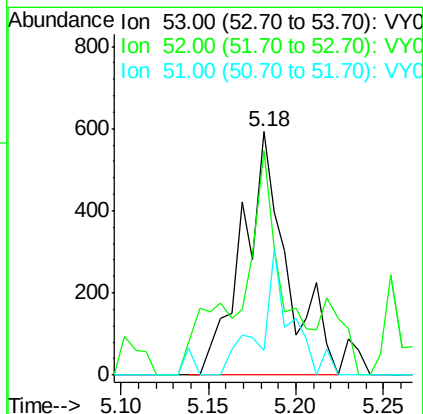
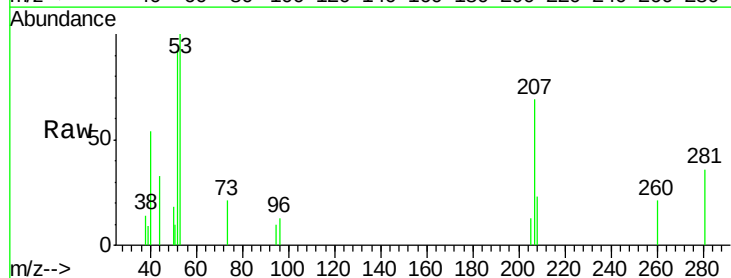
Tot Ion: 59 Resp: 10330
Ion Ratio Lower Upper
59 100
57 11.5 8.0 12.0

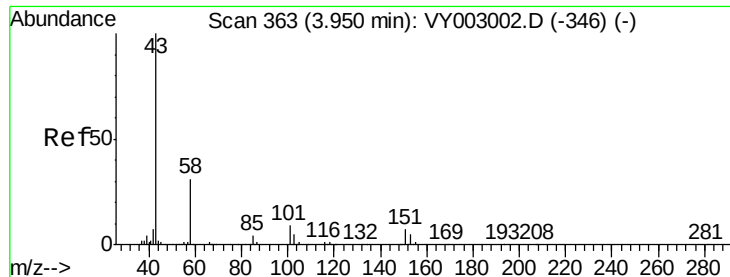


#15

Acrylonitrile
Concen: 1.071 ug/l
RT: 5.18 min Scan# 565
Delta R.T. 0.01 min
Lab File: VY003033.D
Acq: 30 Jun 2020 14:25

Tgt Ion: 53 Resp: 1057
Ion Ratio Lower Upper
53 100
52 64.0 66.2 99.2#
51 35.2 29.5 44.3





#16

Acetone

Concen: 76.914 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY003033.D

Acq: 30 Jun 2020 14:25

Instrument :

MSVOA_Y

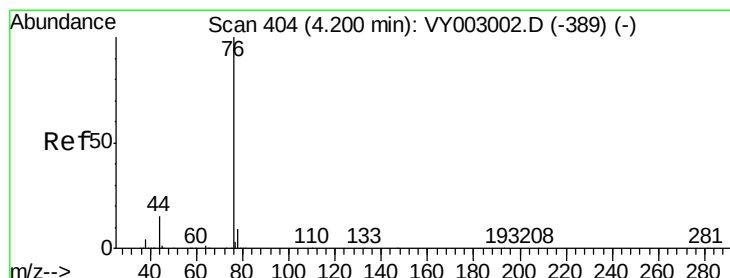
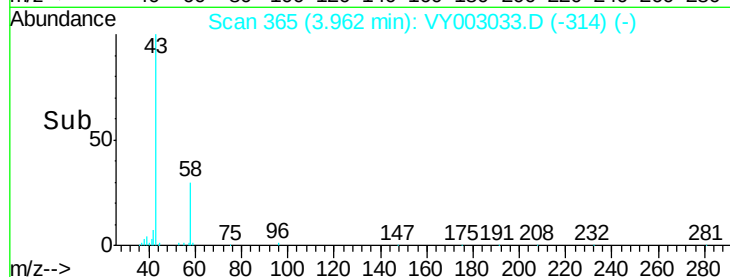
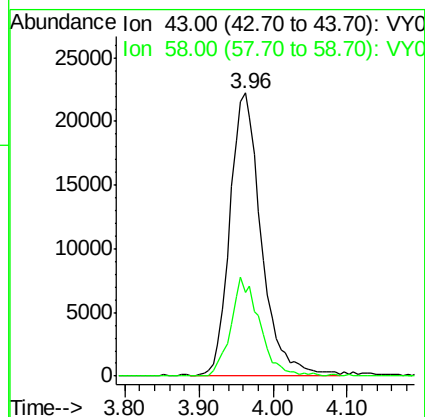
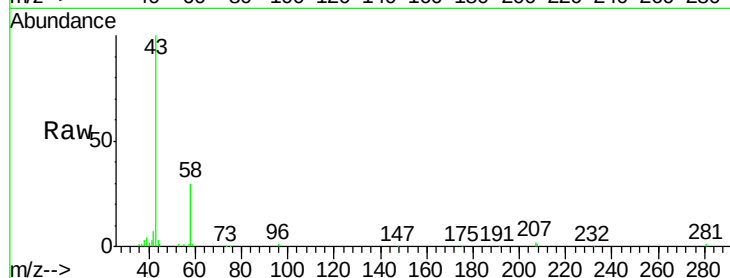
ClientSampleId :

Tot Ion: 43 Resp: 65895

Ion Ratio Lower Upper

43 100

58 29.7 24.7 37.1



#17

Carbon Disulfide

Concen: 1.979 ug/l

RT: 4.19 min Scan# 403

Delta R.T. -0.01 min

Lab File: VY003033.D

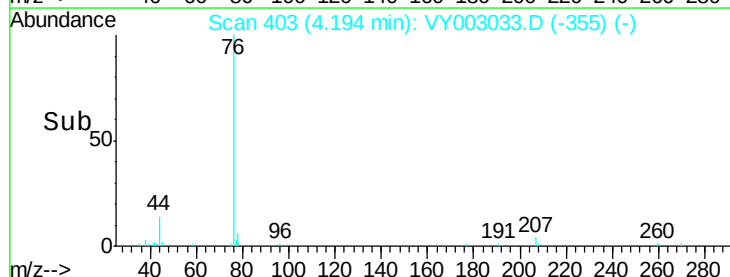
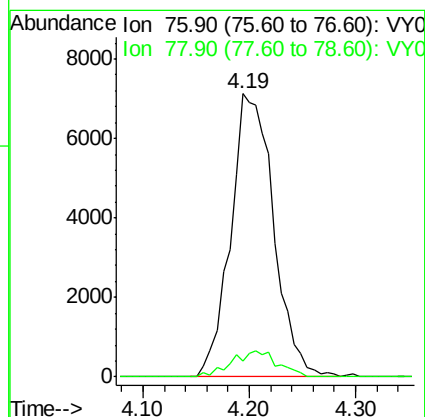
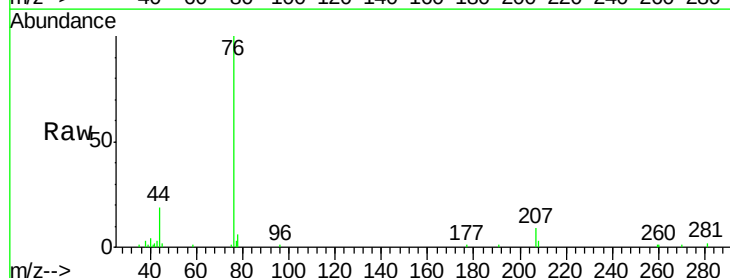
Acq: 30 Jun 2020 14:25

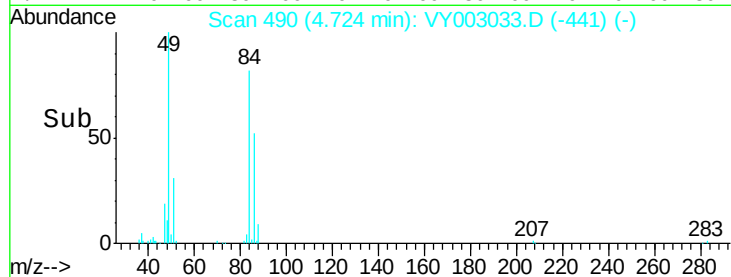
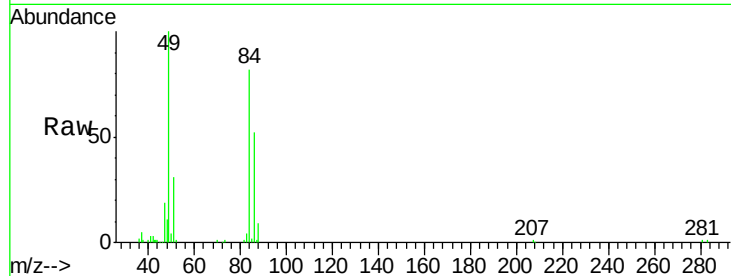
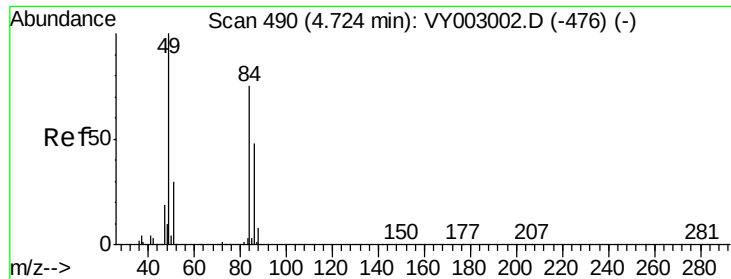
Tgt Ion: 76 Resp: 20060

Ion Ratio Lower Upper

76 100

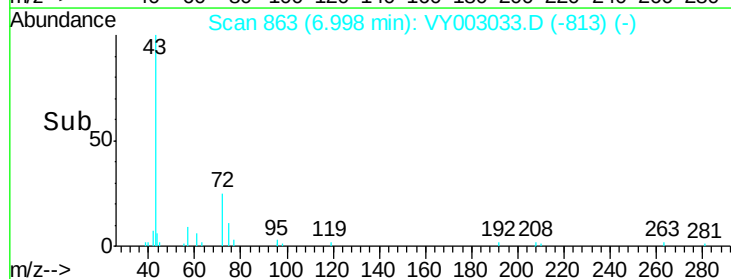
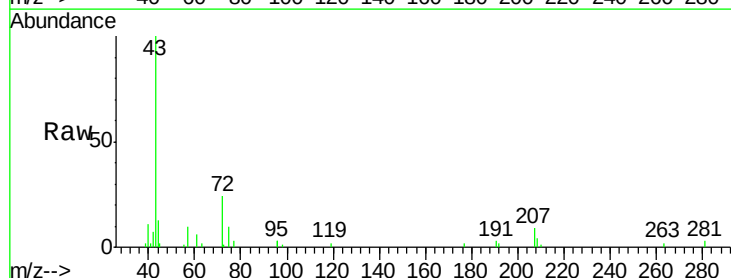
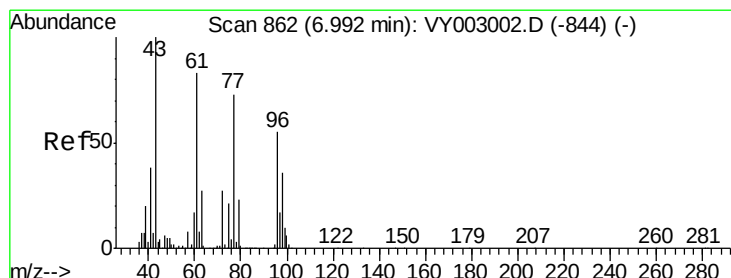
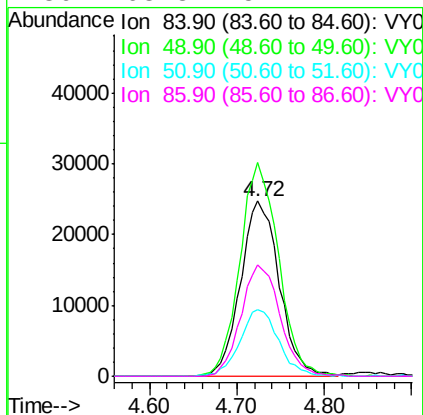
78 5.7 7.0 10.6#





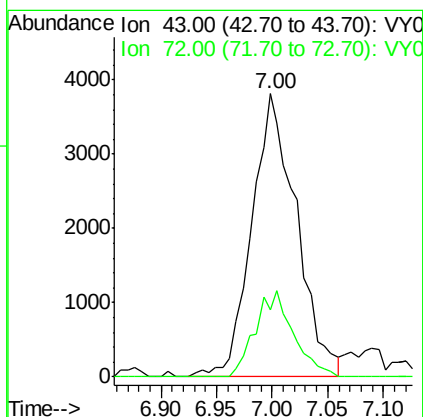
#20
Methylene Chloride
Concen: 15.126 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY003033.D
Acq: 30 Jun 2020 14:25

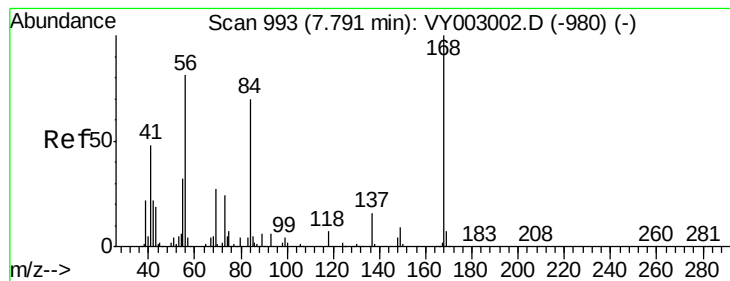
Tot Ion:	84	Resp:	76416
Ion	Ratio	Lower	Upper
84	100		
49	121.8	106.8	160.2
51	37.7	32.0	48.0
86	63.3	51.4	77.2



#25
2-Butanone
Concen: 7.855 ug/l
RT: 7.00 min Scan# 863
Delta R.T. 0.01 min
Lab File: VY003033.D
Acq: 30 Jun 2020 14:25

Tgt Ion:	43	Resp:	10690
Ion	Ratio	Lower	Upper
43	100		
72	23.6	21.4	32.0





#31

Cyclohexane

Concen: 1.138 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY003033.D

Acq: 30 Jun 2020 14:25

Instrument :

MSVOA_Y

ClientSampleId :

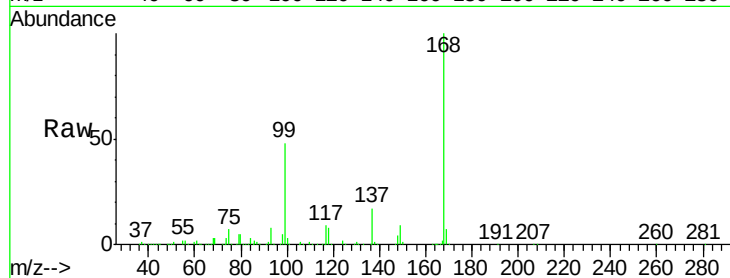
Tot Ion: 56 Resp: 7269

Ion Ratio Lower Upper

56 100

69 135.8 27.0 40.4#

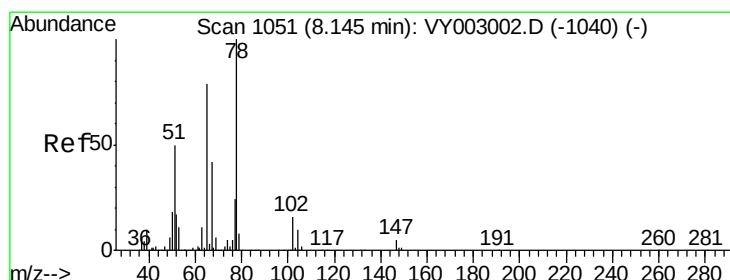
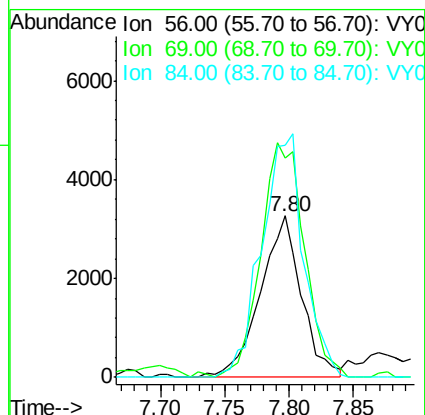
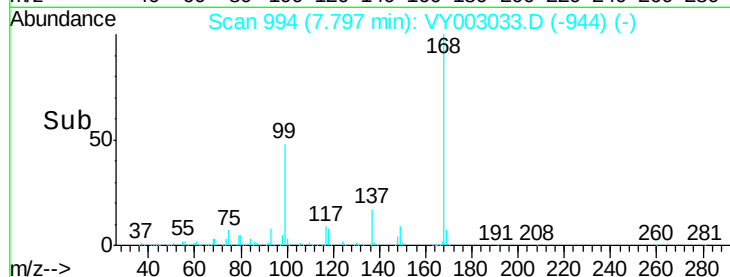
84 143.3 68.1 102.1#



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: 53.630 ug/l

RT: 8.14 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VY003033.D

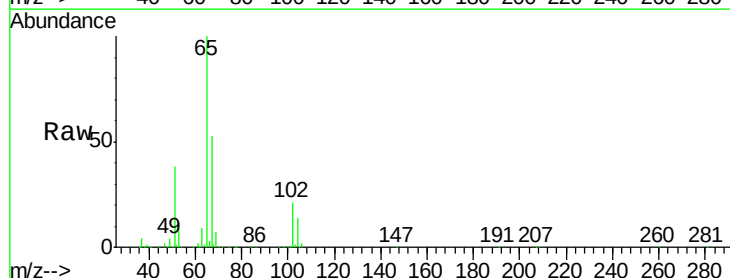
Acq: 30 Jun 2020 14:25

Tgt Ion: 65 Resp: 194814

Ion Ratio Lower Upper

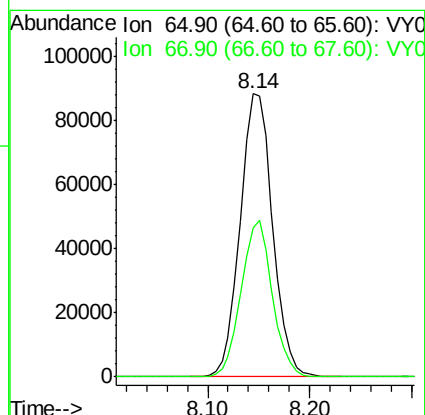
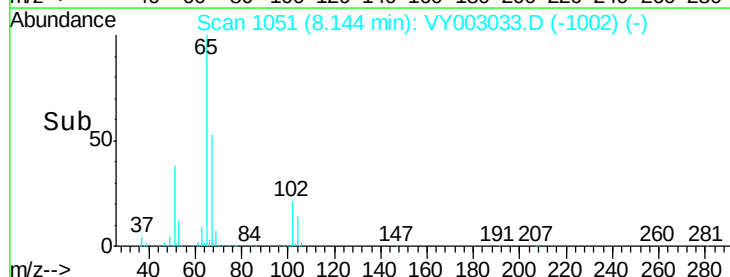
65 100

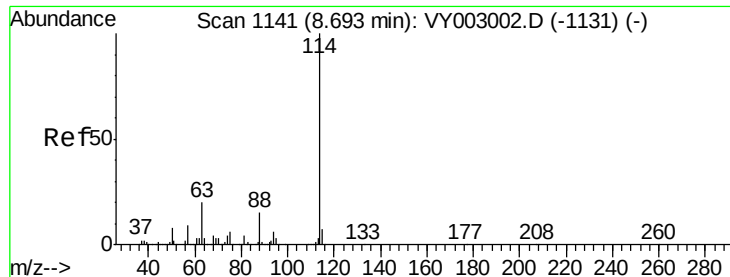
67 53.1 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

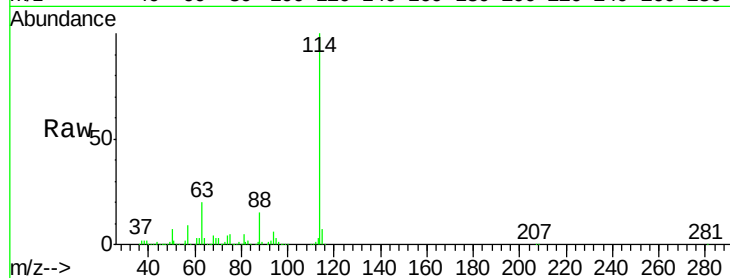




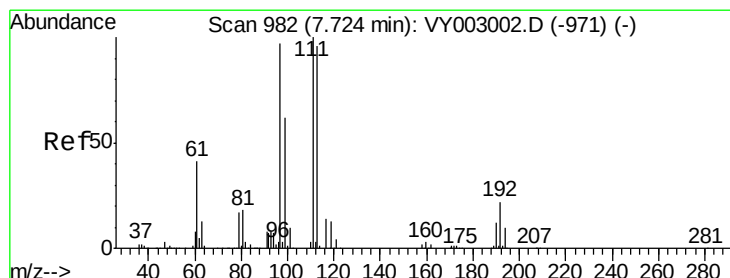
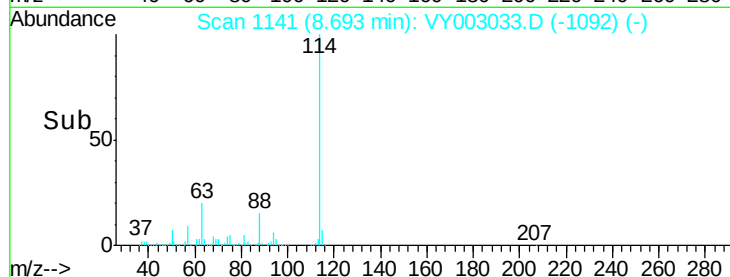
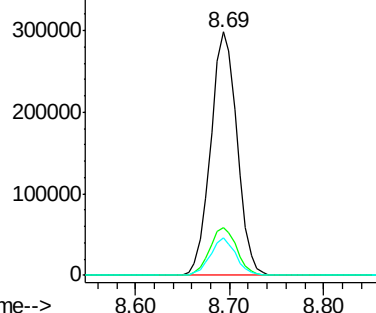
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. -0.00 min
 Lab File: VY003033.D
 Acq: 30 Jun 2020 14:25

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.6
88	15.4	0.0	30.0

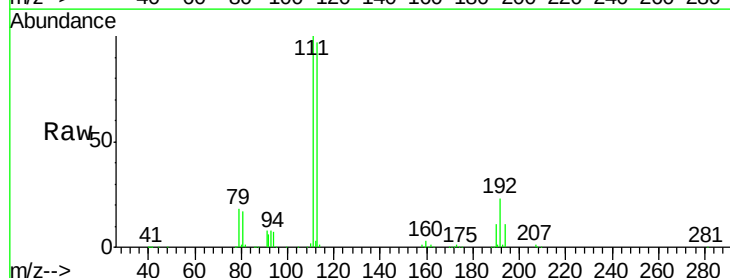


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VY0
 Ion 87.90 (87.60 to 88.60): VY0

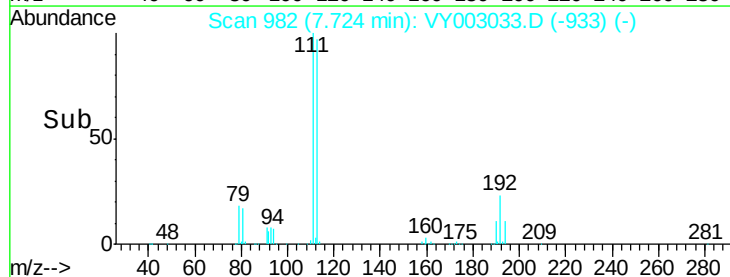
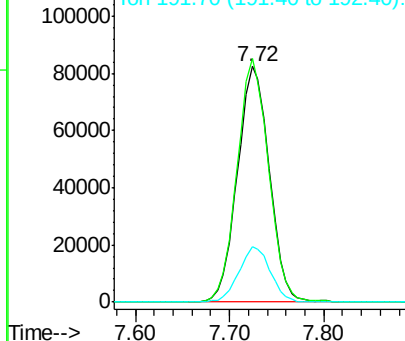


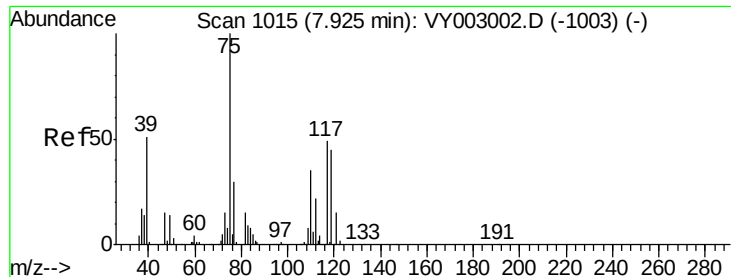
#35
 Dibromofluoromethane
 Concen: 53.278 ug/l
 RT: 7.72 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VY003033.D
 Acq: 30 Jun 2020 14:25

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.6	123.8
192	23.1	18.1	27.1



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

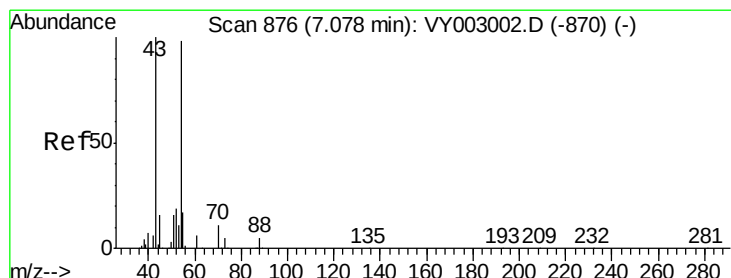
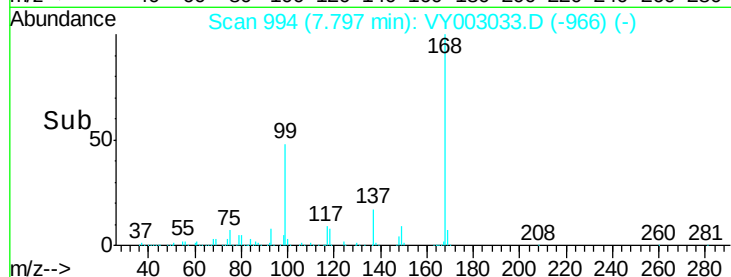
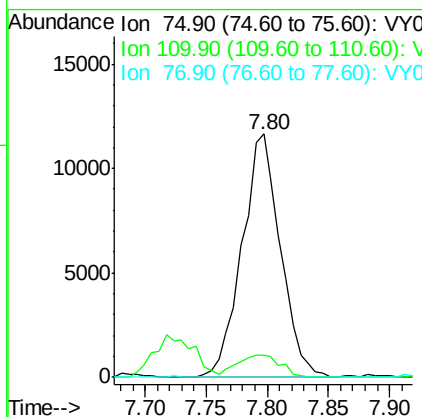
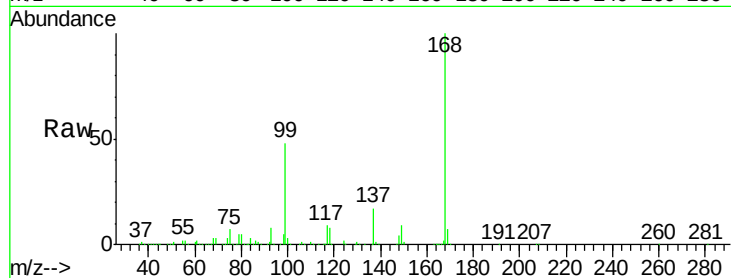




#36
 1,1-Dichloropropene
 Concen: 4.516 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY003033.D
 Acq: 30 Jun 2020 14:25

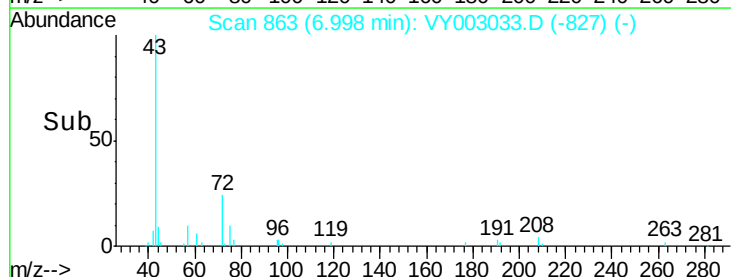
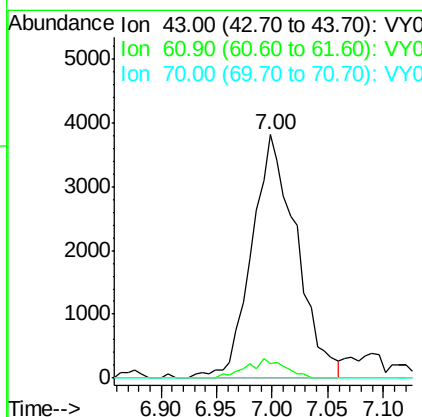
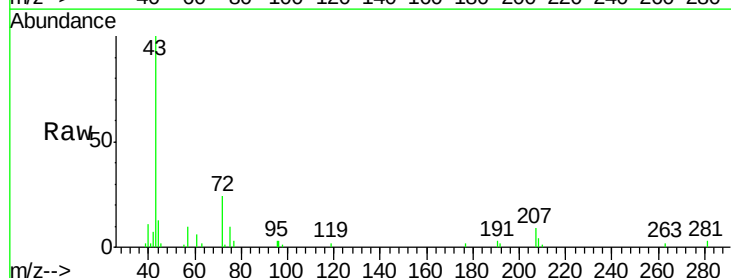
Instrument :
 MSVOA_Y
 ClientSampleId :

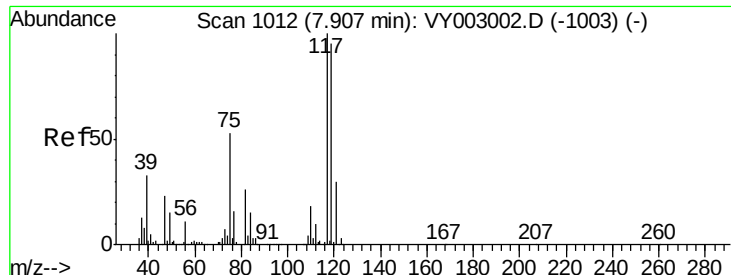
Tot Ion	75	Resp	25391
Ion Ratio	Lower	Upper	
75	100		
110	10.2	17.1	51.2#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 3.162 ug/l
 RT: 7.00 min Scan# 863
 Delta R.T. -0.08 min
 Lab File: VY003033.D
 Acq: 30 Jun 2020 14:25

Tgt Ion	43	Resp	10690
Ion Ratio	Lower	Upper	
43	100		
61	6.9	10.4	15.6#
70	0.0	7.7	11.5#

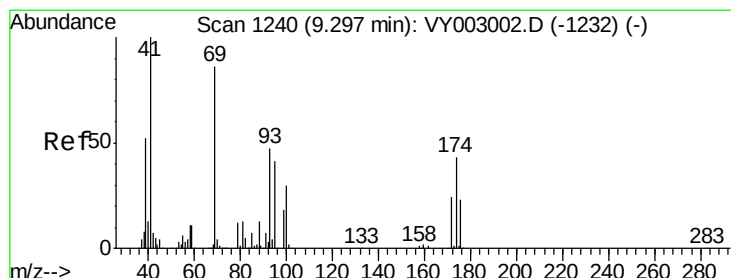
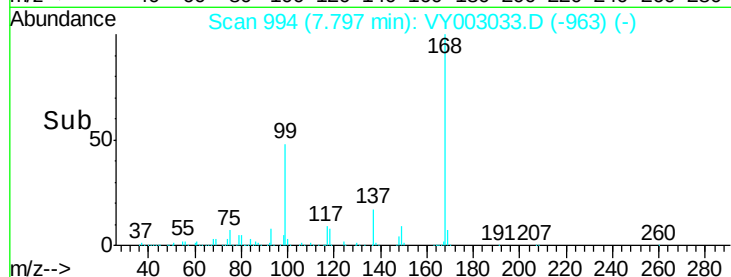
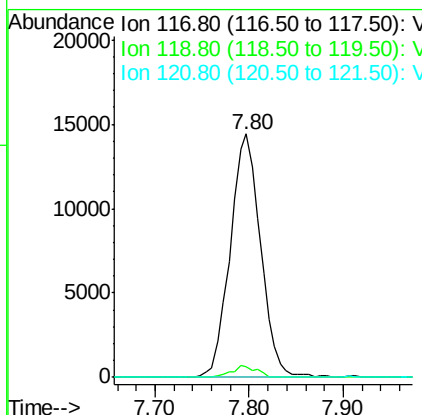
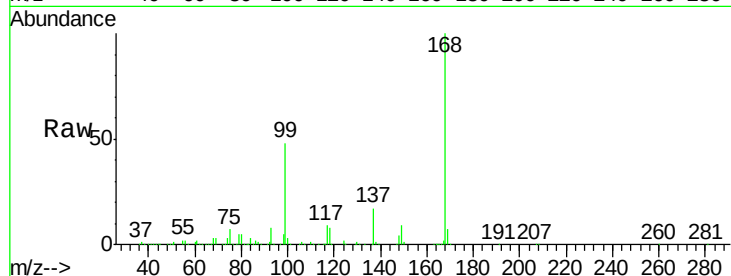




#38
Carbon Tetrachloride
Concen: 5.521 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.11 min
Lab File: VY003033.D
Acq: 30 Jun 2020 14:25

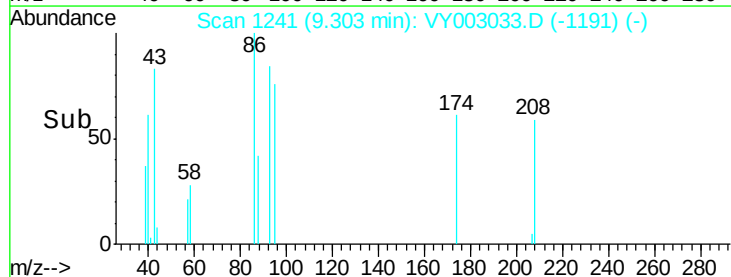
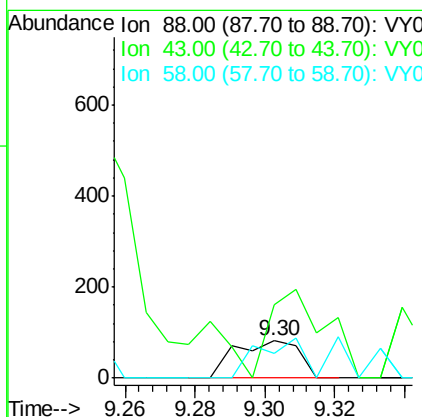
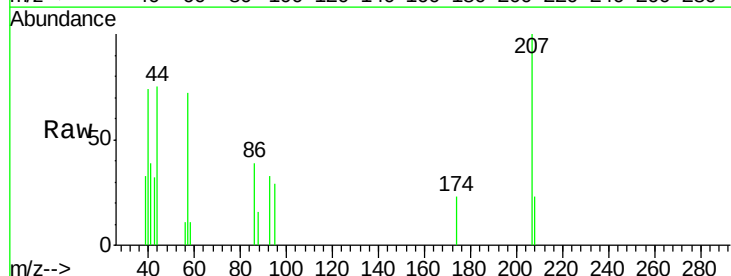
Instrument :
MSVOA_Y
ClientSampleId :

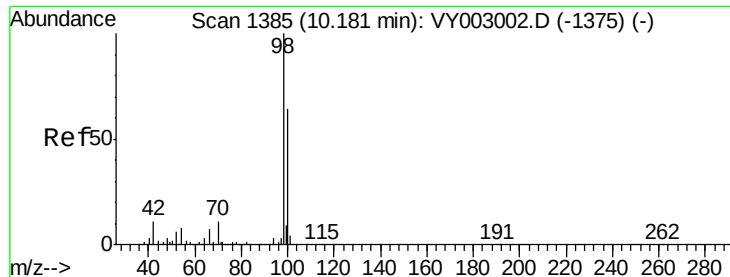
Tot Ion	Ratio	Lower	Upper
117	100		
119	4.4	75.7	113.5#
121	0.0	23.9	35.9#



#49
1,4-Dioxane
Concen: 3.648 ug/l
RT: 9.30 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VY003033.D
Acq: 30 Jun 2020 14:25

Tgt Ion	Ratio	Lower	Upper
88	100		
43	208.7	28.6	42.8#
58	74.8	56.7	85.1





#50

Toluene-d8

Concen: 50.105 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003033.D

Acq: 30 Jun 2020 14:25

Instrument :

MSVOA_Y

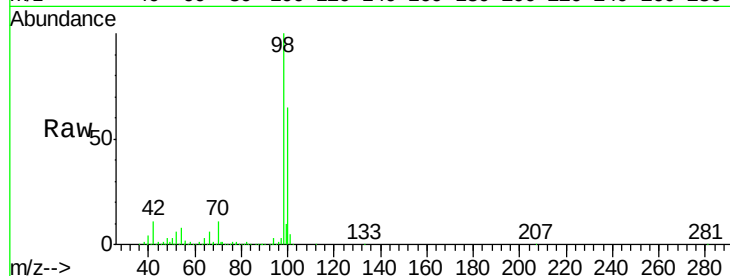
ClientSampleId :

Tot Ion: 98 Resp: 679635

Ion Ratio Lower Upper

98 100

100 63.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

10.18

400000

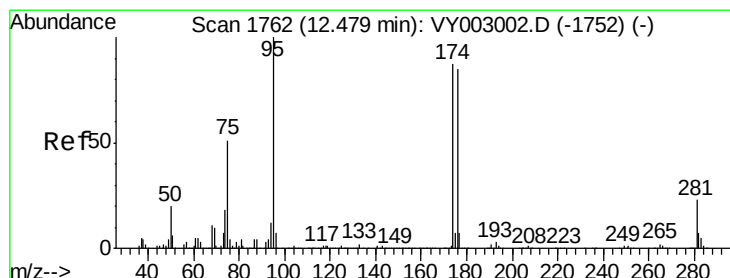
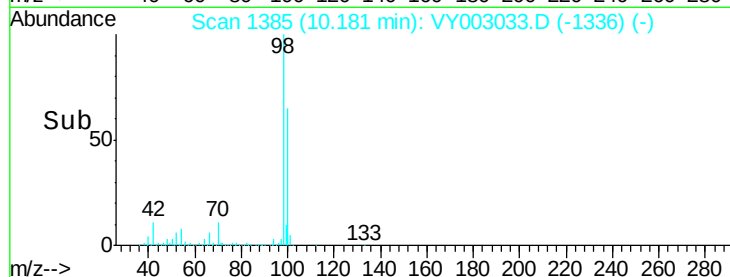
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 39.465 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003033.D

Acq: 30 Jun 2020 14:25

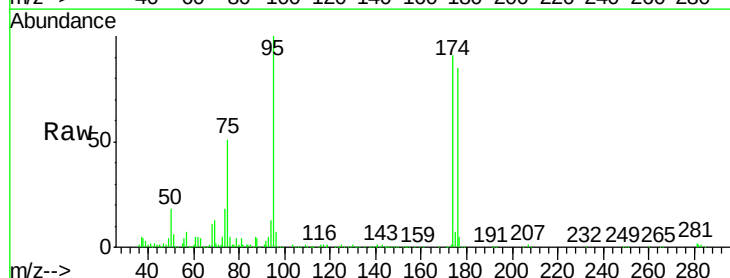
Tgt Ion: 95 Resp: 188430

Ion Ratio Lower Upper

95 100

174 92.9 0.0 184.8

176 89.6 0.0 183.0



Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.48

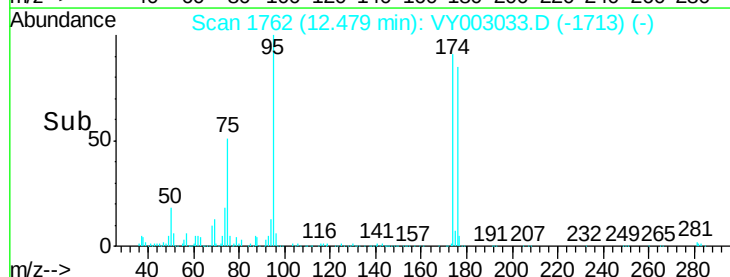
150000

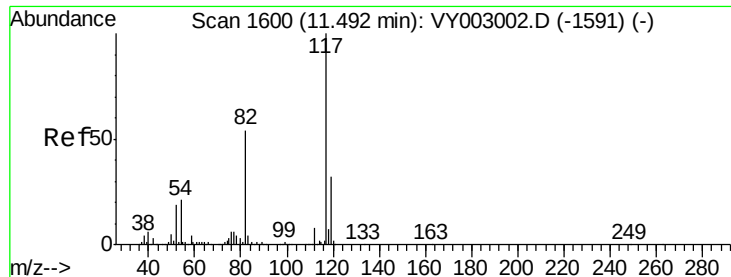
100000

50000

0

Time-->

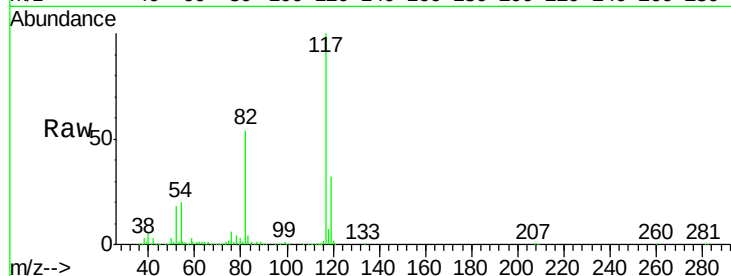




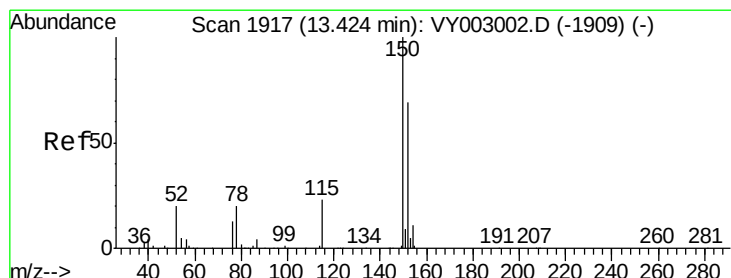
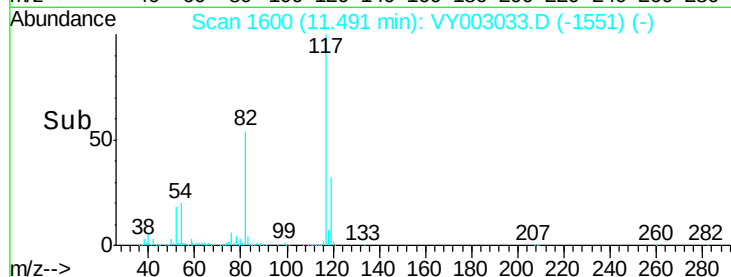
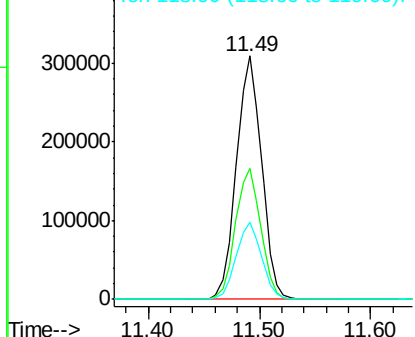
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003033.D
Acq: 30 Jun 2020 14:25

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 484500
Ion Ratio Lower Upper
117 100
82 53.5 43.0 64.6
119 32.0 25.8 38.8

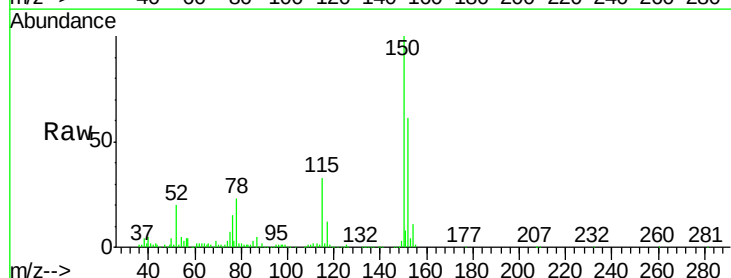


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

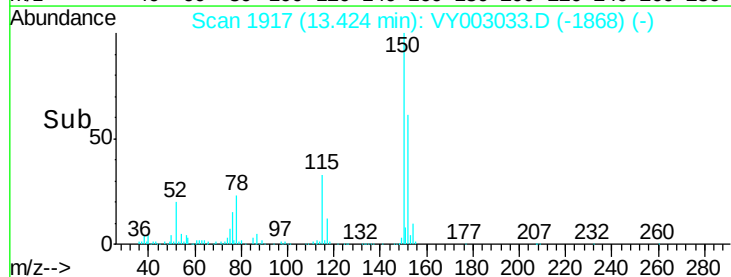
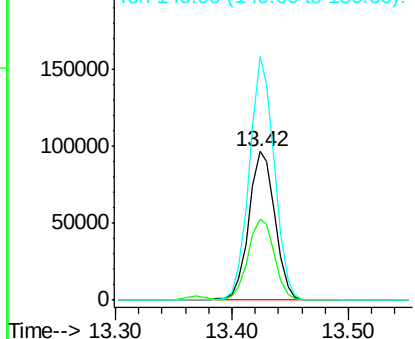


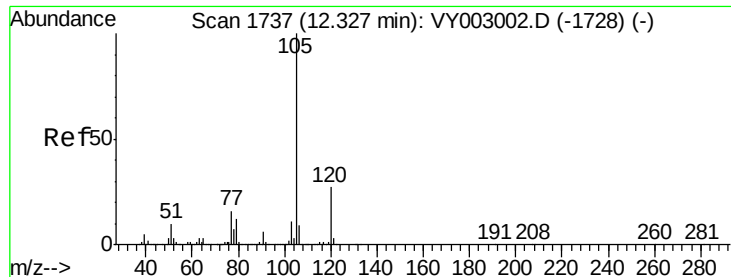
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY003033.D
Acq: 30 Jun 2020 14:25

Tgt Ion:152 Resp: 151588
Ion Ratio Lower Upper
152 100
115 55.0 27.3 81.9
150 156.2 0.0 343.4



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: 4.028 ug/l

RT: 12.33 min Scan# 1738

Delta R.T. 0.01 min

Lab File: VY003033.D

Acq: 30 Jun 2020 14:25

Instrument :

MSVOA_Y

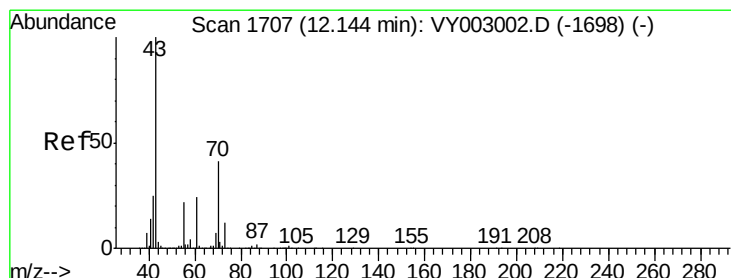
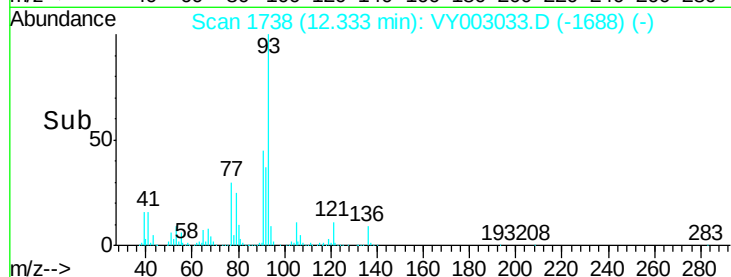
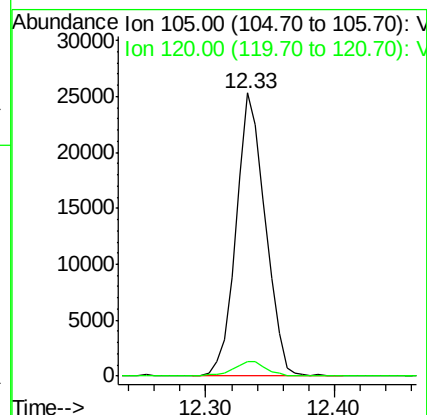
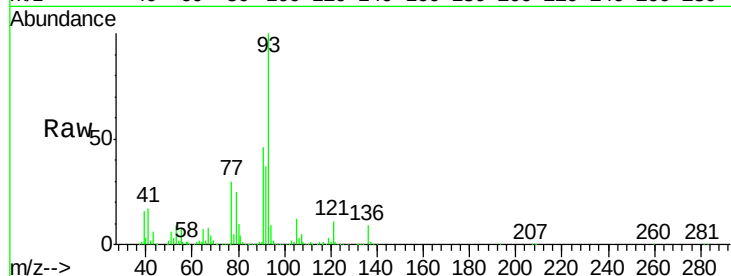
ClientSampled :

Tot Ion:105 Resp: 39965

Ion Ratio Lower Upper

105 100

120 5.9 13.4 40.1#



#74

N-ethyl acetate

Concen: 1.827 ug/l

RT: 12.13 min Scan# 1704

Delta R.T. -0.02 min

Lab File: VY003033.D

Acq: 30 Jun 2020 14:25

Tgt Ion: 43 Resp: 5902

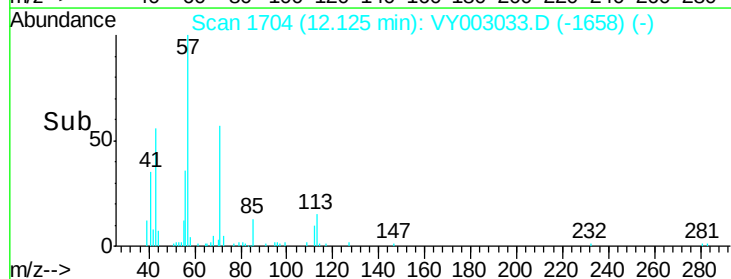
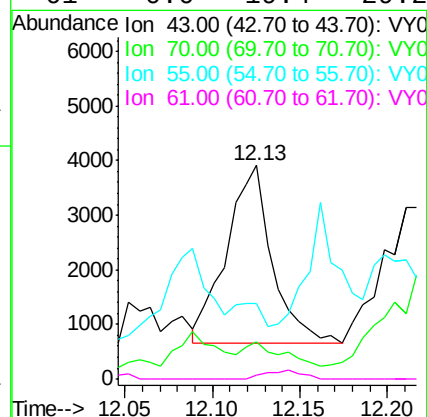
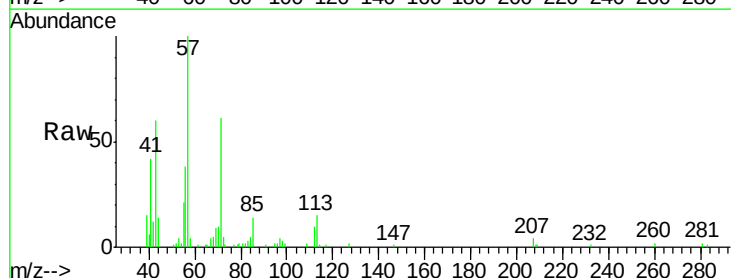
Ion Ratio Lower Upper

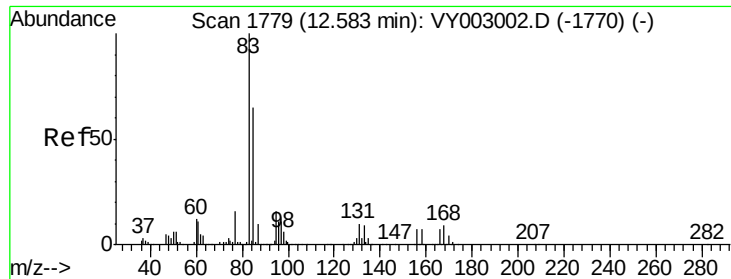
43 100

70 10.3 33.0 49.4#

55 0.0 18.2 27.2#

61 0.0 19.4 29.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.173 ug/l

RT: 12.56 min Scan# 1776

Delta R.T. -0.02 min

Lab File: VY003033.D

Acq: 30 Jun 2020 14:25

Instrument :

MSVOA_Y

ClientSampleId :

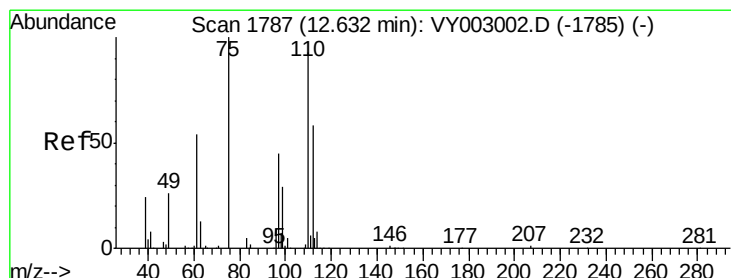
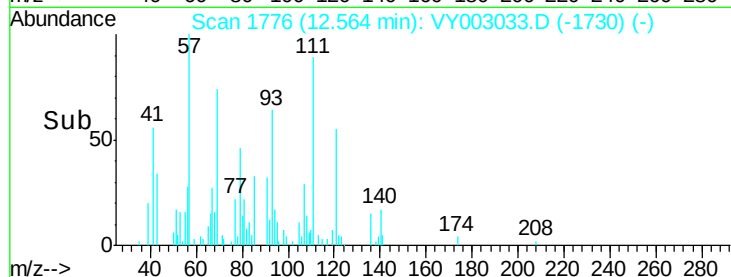
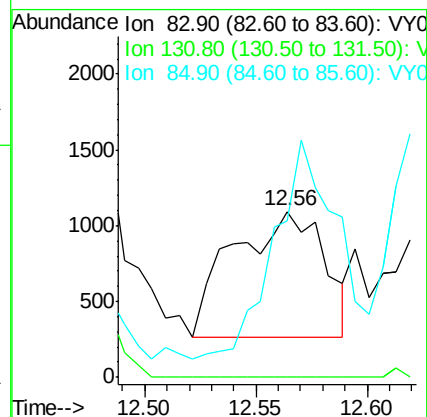
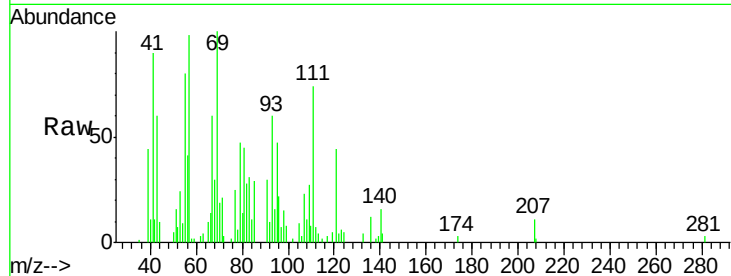
Tot Ion: 83 Resp: 2349

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

85 121.9 32.1 96.3#



#76

1,2,3-Trichloropropane

Concen: 62.767 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003033.D

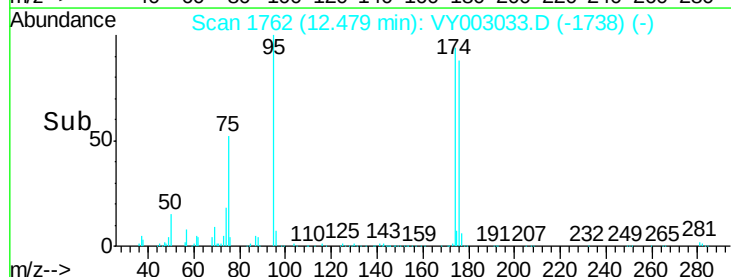
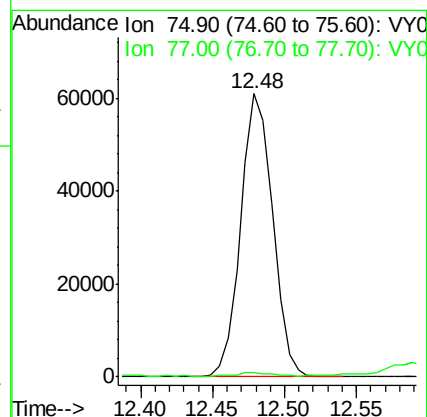
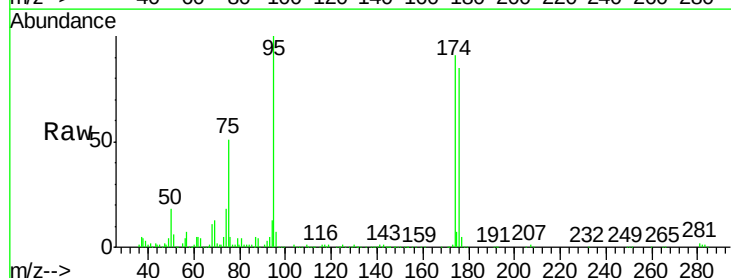
Acq: 30 Jun 2020 14:25

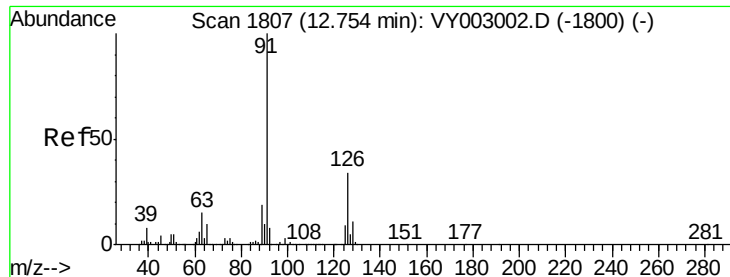
Tgt Ion: 75 Resp: 94166

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

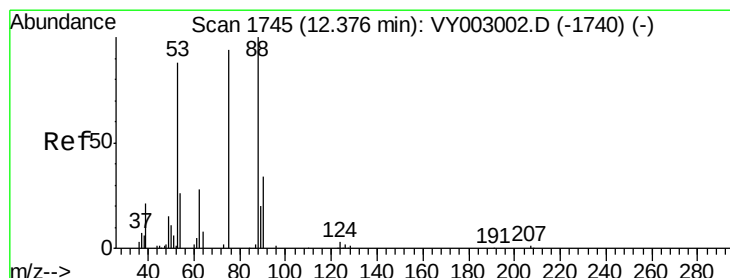
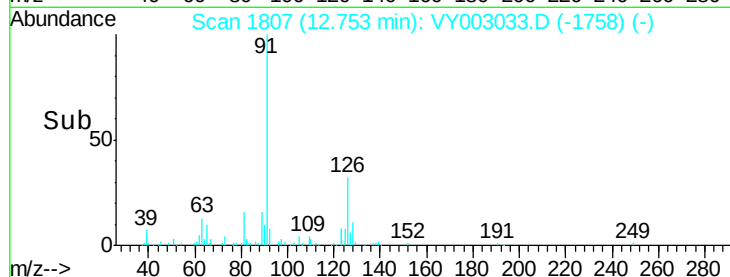
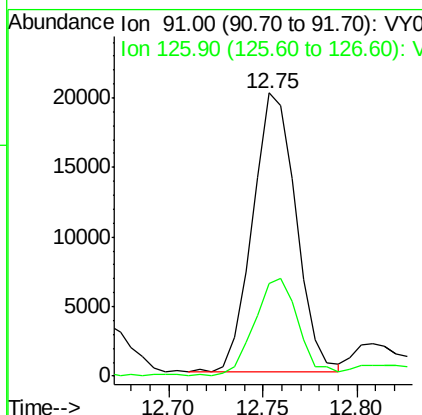
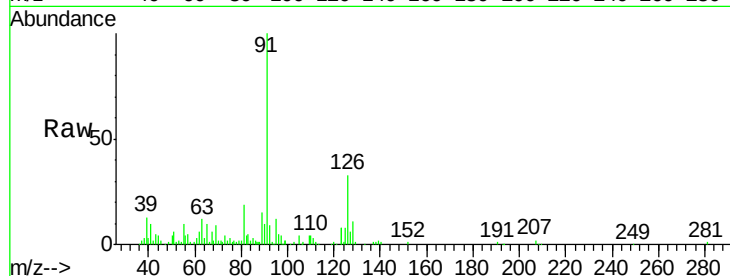




#79
 2-Chlorotoluene
 Concen: 4.812 ug/l
 RT: 12.75 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VY003033.D
 Acq: 30 Jun 2020 14:25

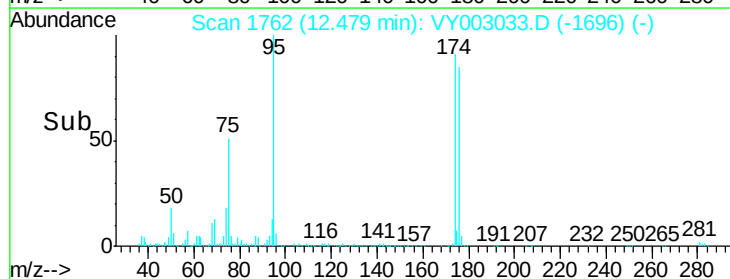
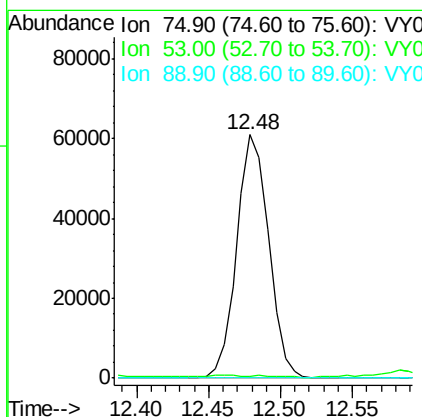
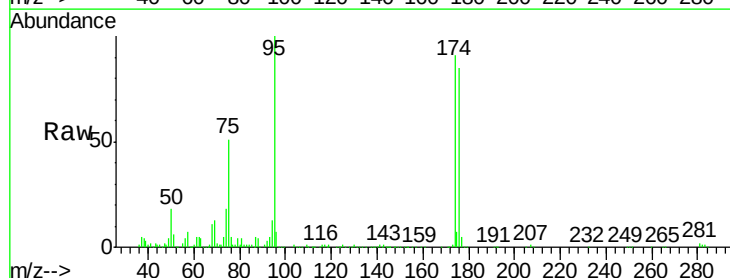
Instrument :
 MSVOA_Y
 ClientSampleId :

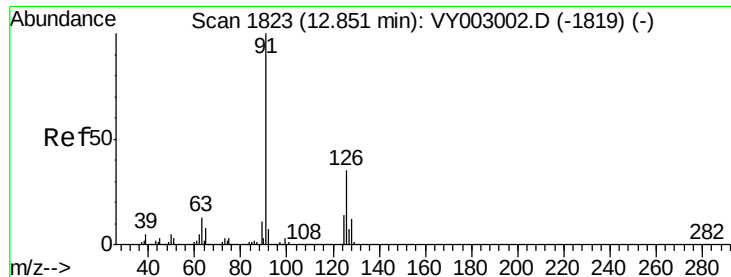
Tot Ion: 91 Resp: 32049
 Ion Ratio Lower Upper
 91 100
 126 35.3 17.1 51.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 122.118 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.10 min
 Lab File: VY003033.D
 Acq: 30 Jun 2020 14:25

Tgt Ion: 75 Resp: 94166
 Ion Ratio Lower Upper
 75 100
 53 1.1 73.9 110.9#
 89 0.2 37.5 56.3#





#82

4-Chlorotoluene

Concen: 8.671 ug/l

RT: 12.86 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VY003033.D

Acq: 30 Jun 2020 14:25

Instrument :

MSVOA_Y

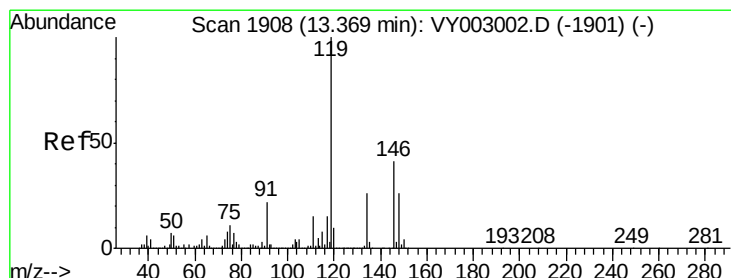
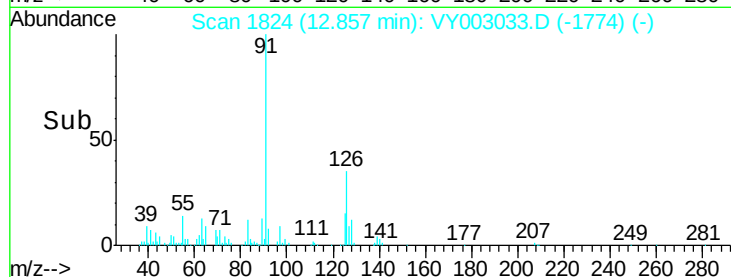
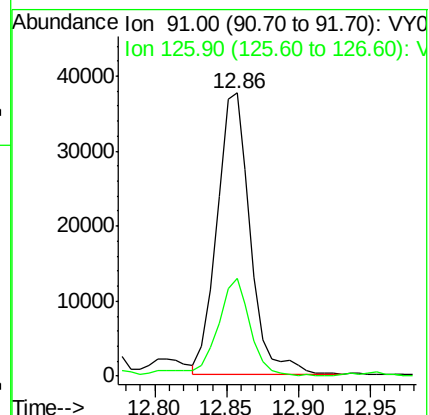
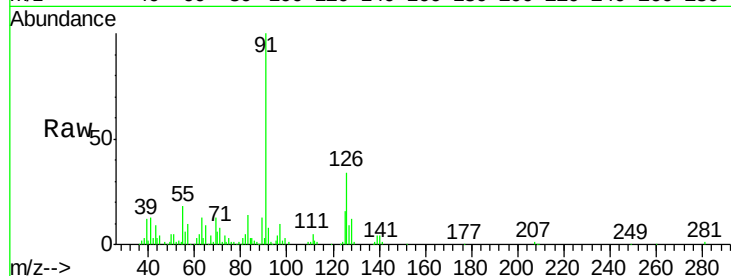
ClientSampleId :

Tot Ion: 91 Resp: 60125

Ion Ratio Lower Upper

91 100

126 35.3 17.4 52.3



#86

p-Isopropyltoluene

Concen: 4.575 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.00 min

Lab File: VY003033.D

Acq: 30 Jun 2020 14:25

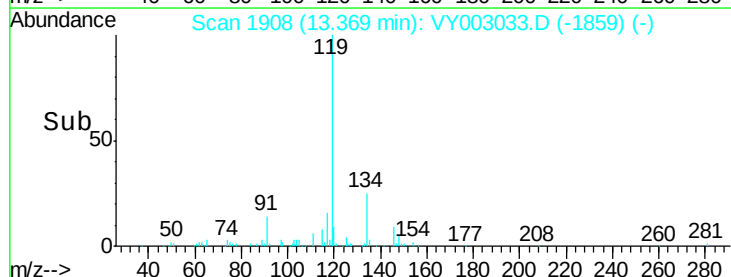
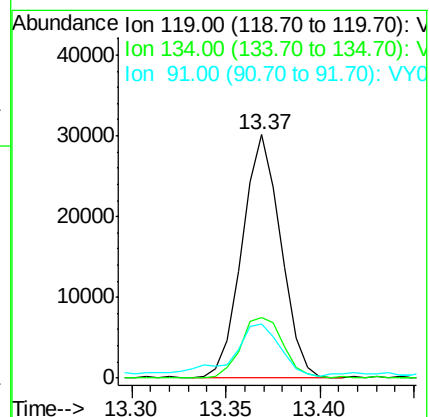
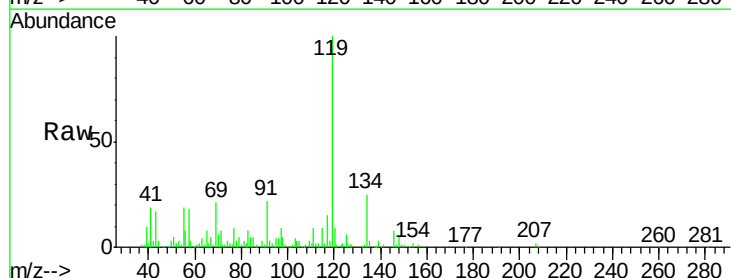
Tgt Ion: 119 Resp: 42713

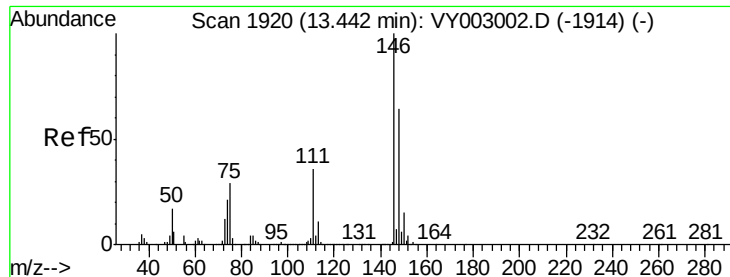
Ion Ratio Lower Upper

119 100

134 27.9 13.5 40.4

91 27.6 11.5 34.5

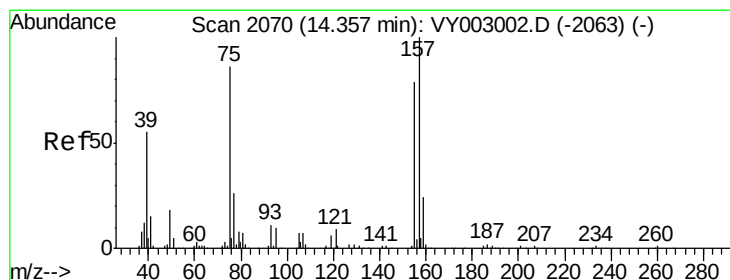
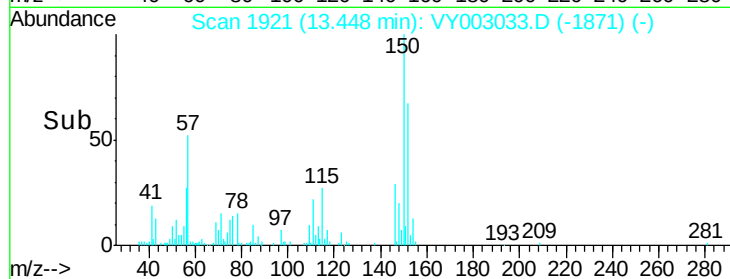
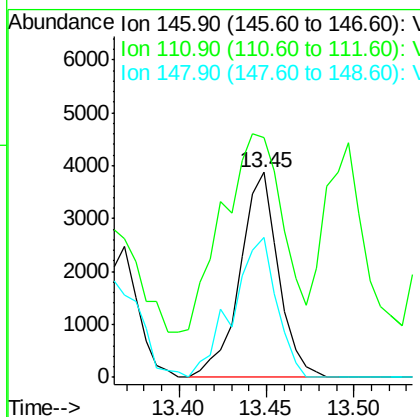
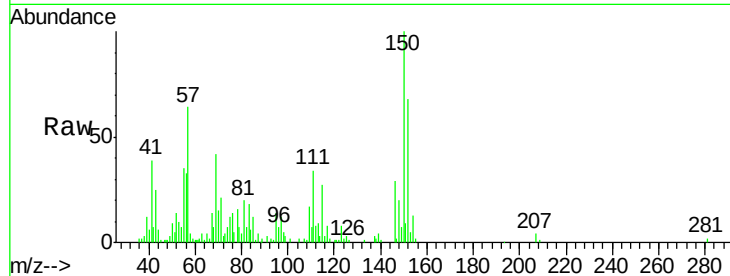




#88
 1,4-Dichlorobenzene
 Concen: 1.267 ug/l
 RT: 13.45 min Scan# 1921
 Delta R.T. 0.01 min
 Lab File: VY003033.D
 Acq: 30 Jun 2020 14:25

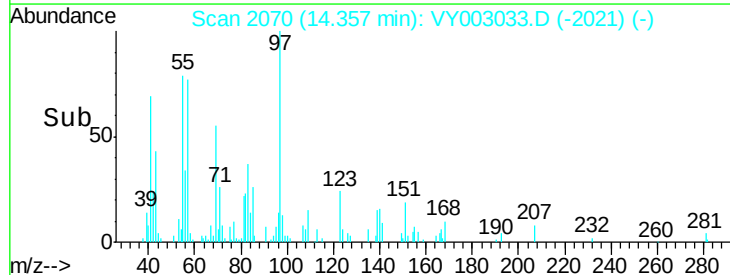
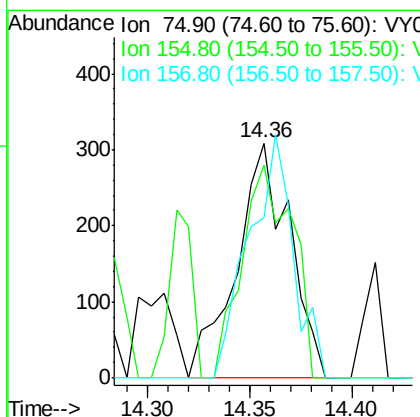
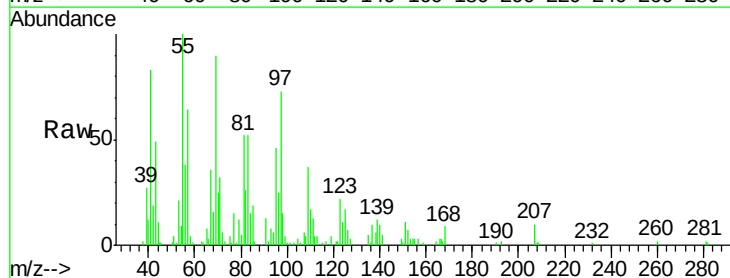
Instrument :
 MSVOA_Y
 ClientSampled :

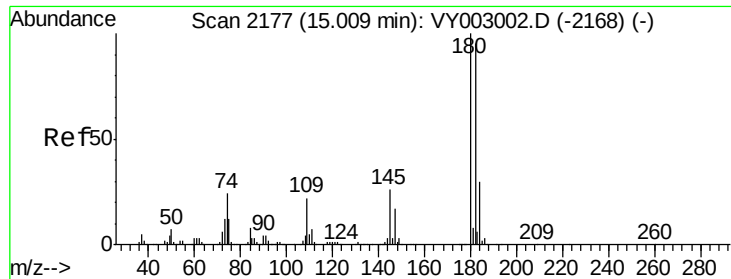
Tot Ion:146 Resp: 5931
 Ion Ratio Lower Upper
 146 100
 111 153.9 18.4 55.4#
 148 77.8 32.3 96.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.574 ug/l
 RT: 14.36 min Scan# 2070
 Delta R.T. -0.00 min
 Lab File: VY003033.D
 Acq: 30 Jun 2020 14:25

Tgt Ion: 75 Resp: 558
 Ion Ratio Lower Upper
 75 100
 155 86.2 46.5 139.3
 157 86.4 59.2 177.5

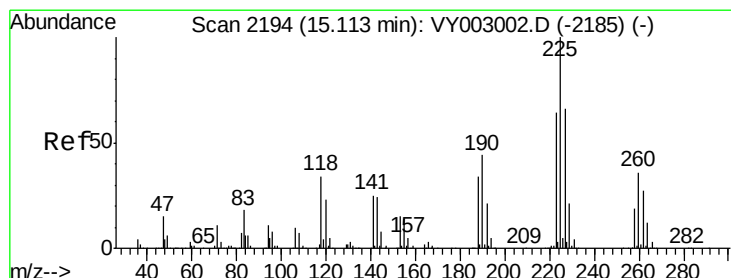
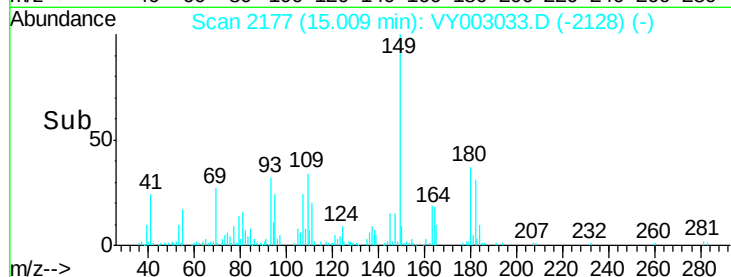
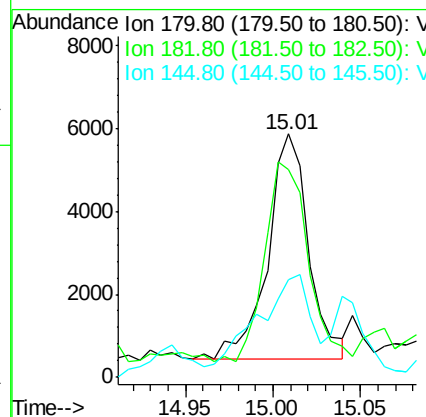
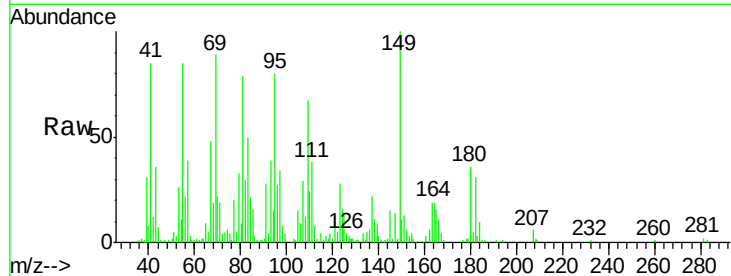




#93
 1,2,4-Trichlorobenzene
 Concen: 2.799 ug/l
 RT: 15.01 min Scan# 2177
 Delta R.T. -0.00 min
 Lab File: VY003033.D
 Acq: 30 Jun 2020 14:25

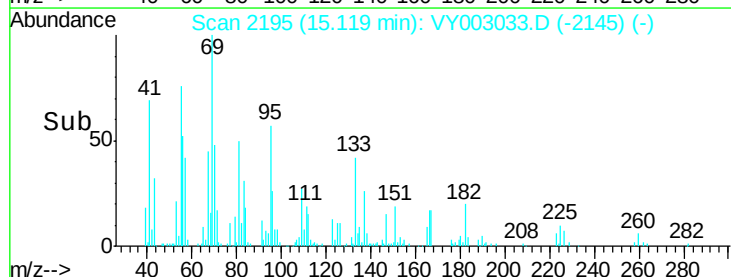
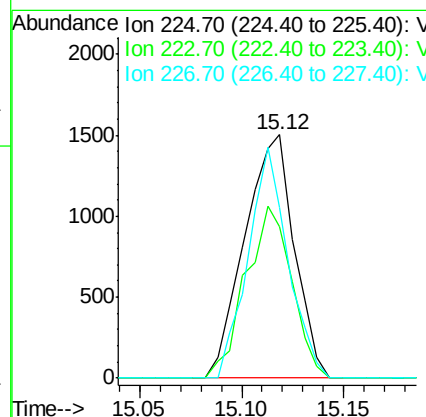
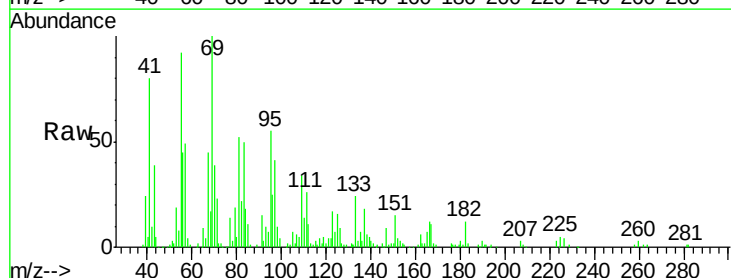
Instrument :
 MSVOA_Y
 ClientSampleId :

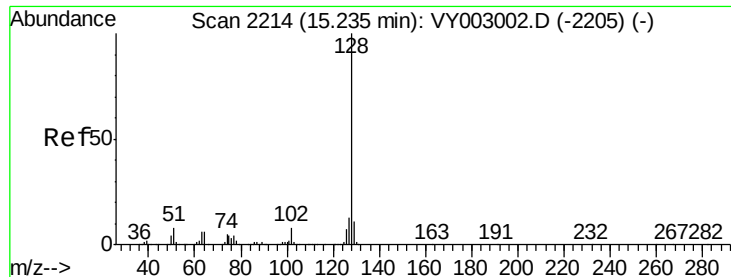
Tot Ion:180 Resp: 8861
 Ion Ratio Lower Upper
 180 100
 182 93.6 48.1 144.3
 145 59.6 13.9 41.6#



#94
 Hexachlorobutadiene
 Concen: 1.271 ug/l
 RT: 15.12 min Scan# 2195
 Delta R.T. 0.01 min
 Lab File: VY003033.D
 Acq: 30 Jun 2020 14:25

Tgt Ion:225 Resp: 2538
 Ion Ratio Lower Upper
 225 100
 223 65.4 32.4 97.0
 227 76.2 32.4 97.2

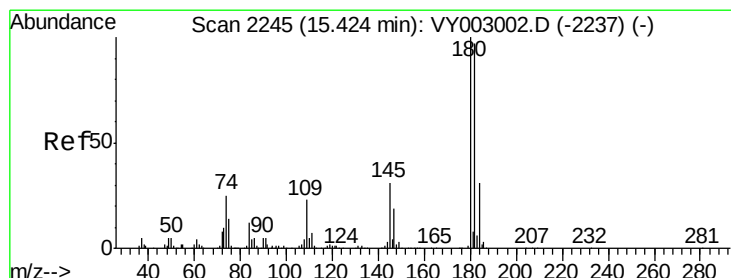
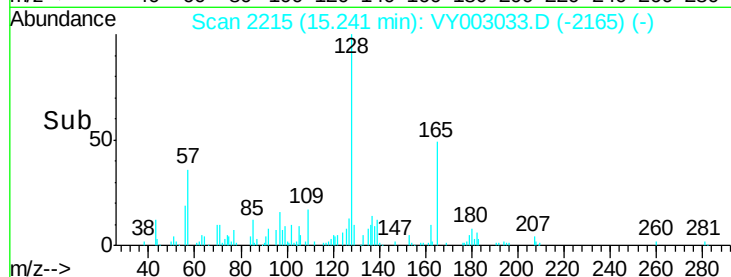
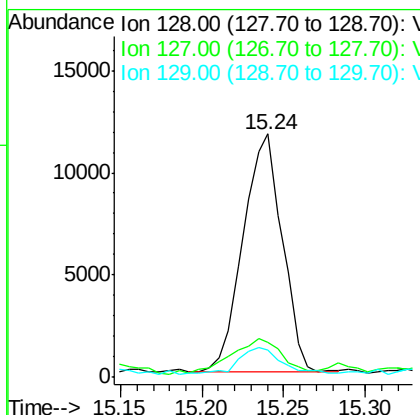
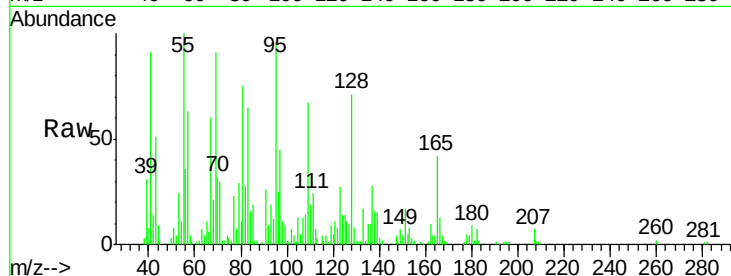




#95
Naphthalene
Concen: 3.369 ug/l
RT: 15.24 min Scan# 2215
Delta R.T. 0.01 min
Lab File: VY003033.D
Acq: 30 Jun 2020 14:25

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	20.7	10.8	16.2#
129	11.3	8.8	13.2



#96
1,2,3-Trichlorobenzene
Concen: 3.494 ug/l
RT: 15.44 min Scan# 2247
Delta R.T. 0.01 min
Lab File: VY003033.D
Acq: 30 Jun 2020 14:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.8	47.8	143.3
145	67.4	14.7	44.1#

