

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY062920\
 Data File : VY003011.D
 Acq On : 29 Jun 2020 17:07
 Operator : SY/MD
 Sample : L3128-03
 Misc : 7.08G/5ML/MSVOA Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 78-64

Quant Time: Jun 30 05:57:32 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	329847	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	531407	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	458260	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	157115	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	185616	56.66	ug/l	0.00
Spiked Amount			Recovery	=	113.32%	
35) Dibromofluoromethane	7.72	113	172897	52.16	ug/l	0.00
Spiked Amount			Recovery	=	104.32%	
50) Toluene-d8	10.18	98	633625	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	
62) 4-Bromofluorobenzene	12.48	95	185831	42.75	ug/l	0.00
Spiked Amount			Recovery	=	85.50%	

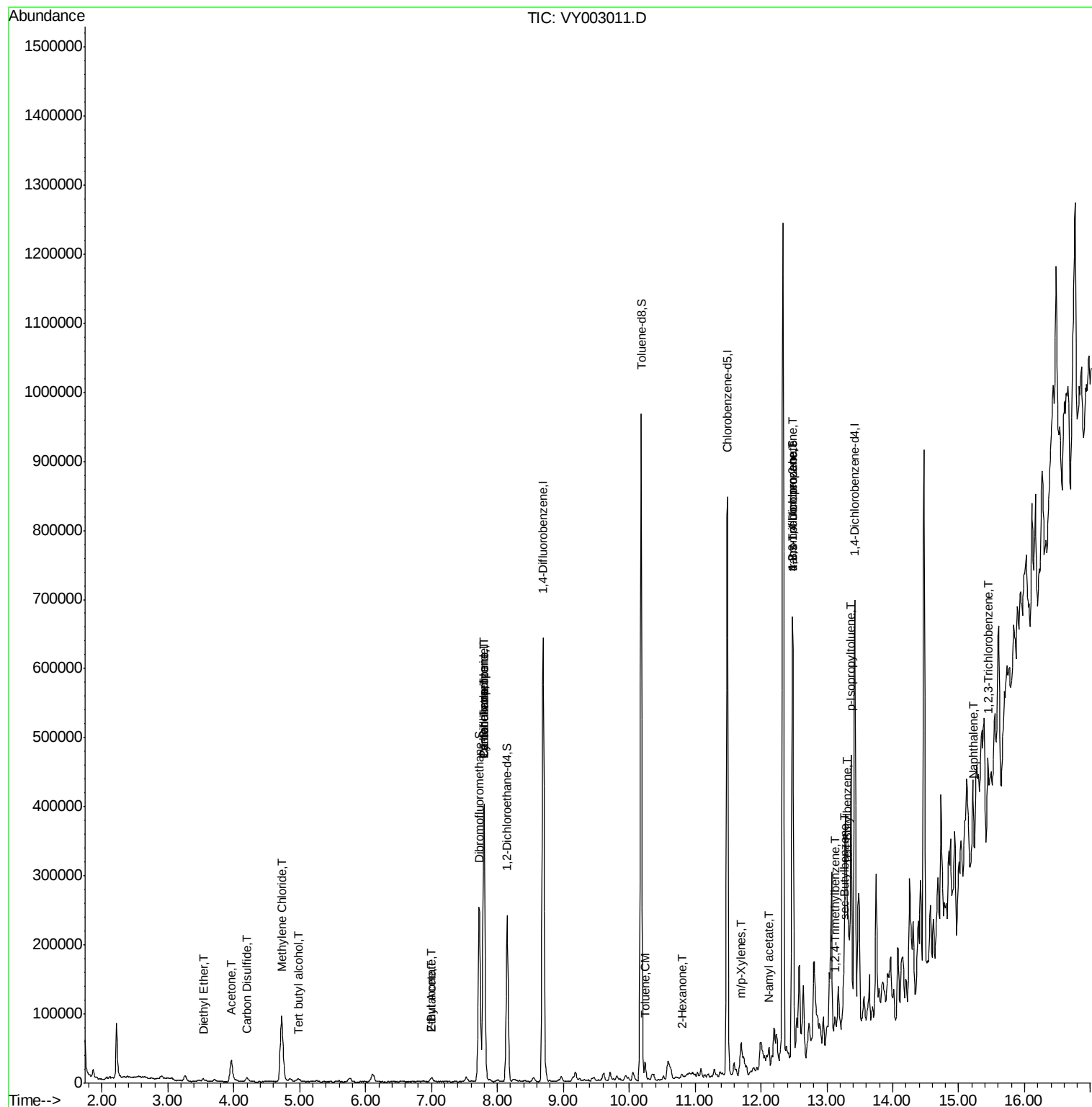
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.54	74	2126	1.231	ug/l	79
11) Tert butyl alcohol	4.98	59	9285	27.810	ug/l #	82
16) Acetone	3.96	43	57686	74.660	ug/l	95
17) Carbon Disulfide	4.20	76	11639	1.273	ug/l #	78
20) Methylene Chloride	4.73	84	70498	15.659	ug/l	96
25) 2-Butanone	7.00	43	10362	8.443	ug/l	93
31) Cyclohexane	7.80	56	6650	1.154	ug/l #	1
36) 1,1-Dichloropropene	7.79	75	23518	4.595	ug/l #	51
37) Ethyl Acetate	7.00	43	10362	3.367	ug/l #	72
38) Carbon Tetrachloride	7.80	117	31160	5.851	ug/l #	17
52) Toluene	10.24	92	9599	1.088	ug/l	97
59) 2-Hexanone	10.80	43	3728	1.764	ug/l #	24
68) m/p-Xylenes	11.70	106	12717	2.067	ug/l	97
74) N-amyl acetate	12.12	43	7161	2.139	ug/l #	44
76) 1,2,3-Trichloropropane	12.48	75	95841	61.636	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	95841	119.918	ug/l #	12
83) tert-Butylbenzene	13.31	119	12432	1.641	ug/l #	33
84) 1,2,4-Trimethylbenzene	13.12	105	10891	1.253	ug/l	95
85) sec-Butylbenzene	13.25	105	17294	1.656	ug/l #	75
86) p-Isopropyltoluene	13.37	119	200602	20.730	ug/l	98
95) Naphthalene	15.23	128	10412	1.737	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.44	180	6535	2.293	ug/l #	52

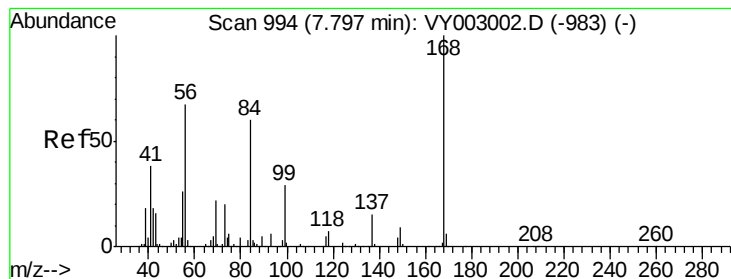
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VY003011.D

Acq: 29 Jun 2020 17:07

Instrument :

MSVOA_Y

ClientSampleId :

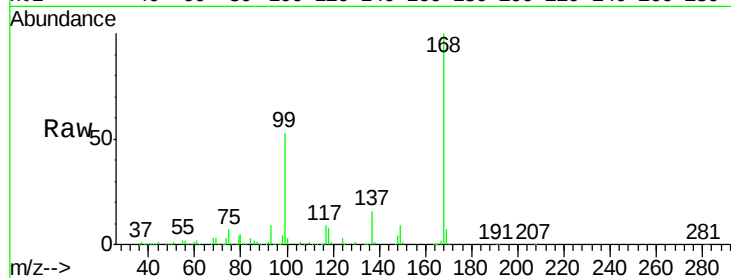
78-64

Tot Ion:168 Resp: 329847

Ion Ratio Lower Upper

168 100

99 52.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY003011.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003011.D (-945) (-)

7.80

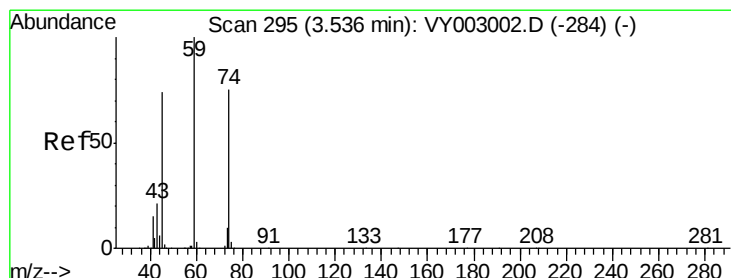
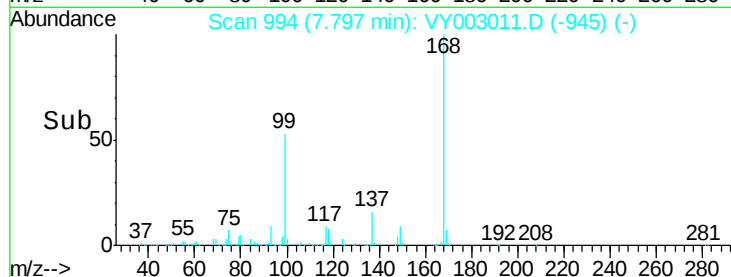
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.231 ug/l

RT: 3.54 min Scan# 295

Delta R.T. -0.00 min

Lab File: VY003011.D

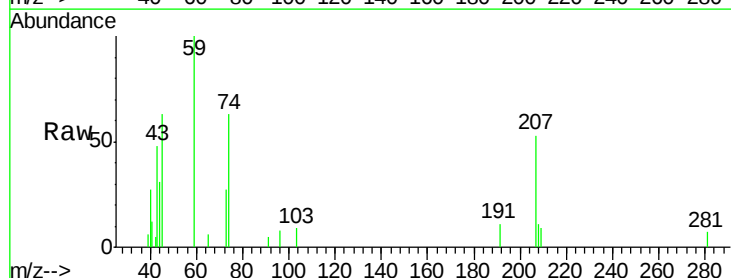
Acq: 29 Jun 2020 17:07

Tgt Ion: 74 Resp: 2126

Ion Ratio Lower Upper

74 100

45 119.0 49.3 147.9



Abundance Ion 74.00 (73.70 to 74.70): VY003011.D (-246) (-)

Ion 45.00 (44.70 to 45.70): VY003011.D (-246) (-)

3.54

1000

800

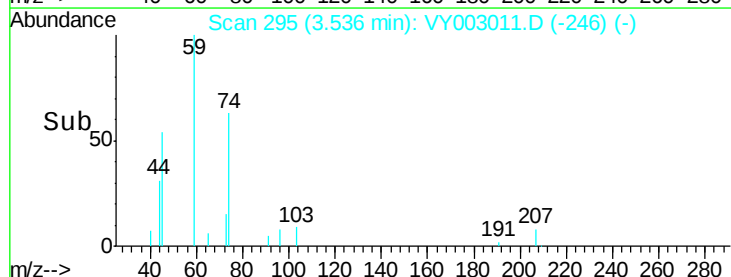
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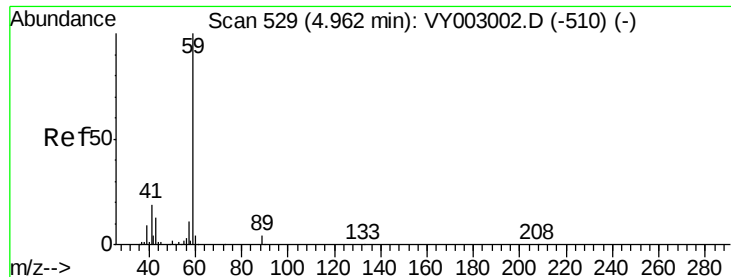
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200

0

Time-->



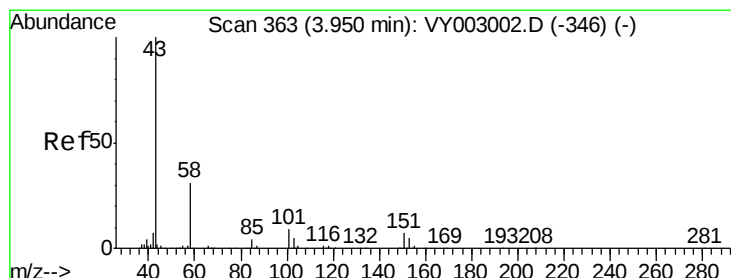
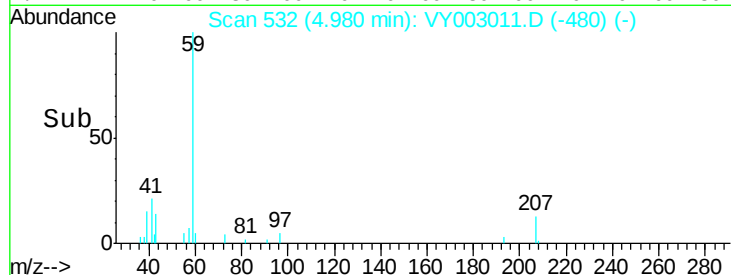
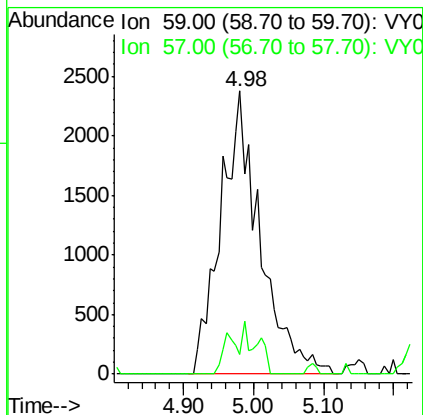
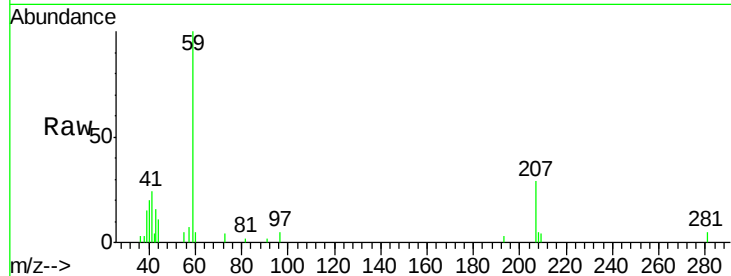


#11

Tert butyl alcohol
 Concen: 27.810 ug/l
 RT: 4.98 min Scan# 532
 Delta R.T. 0.02 min
 Lab File: VY003011.D
 Acq: 29 Jun 2020 17:07

Instrument :
 MSVOA_Y
 ClientSampled :
 78-64

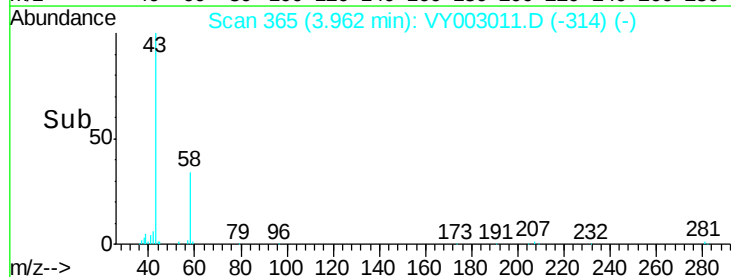
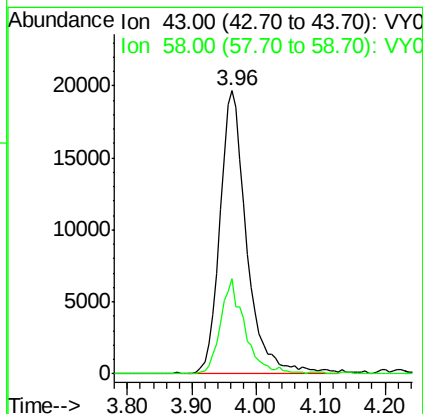
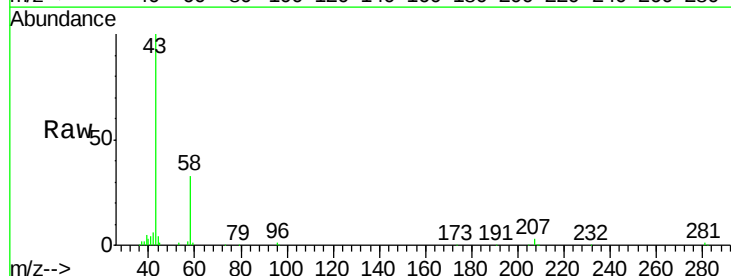
Tot Ion: 59 Resp: 9285
 Ion Ratio Lower Upper
 59 100
 57 3.3 8.0 12.0#

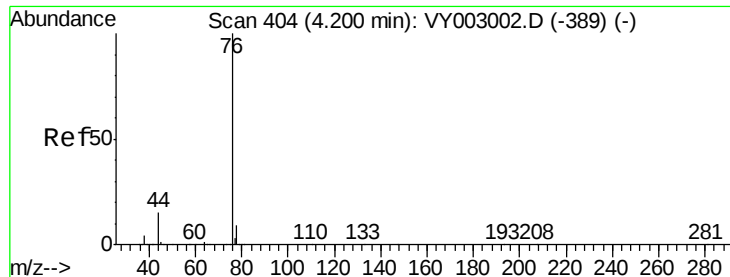


#16

Acetone
 Concen: 74.660 ug/l
 RT: 3.96 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VY003011.D
 Acq: 29 Jun 2020 17:07

Tgt Ion: 43 Resp: 57686
 Ion Ratio Lower Upper
 43 100
 58 33.5 24.7 37.1





#17

Carbon Disulfide

Concen: 1.273 ug/l

RT: 4.20 min Scan# 404

Delta R.T. -0.00 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

Instrument :

MSVOA_Y

ClientSampleId :

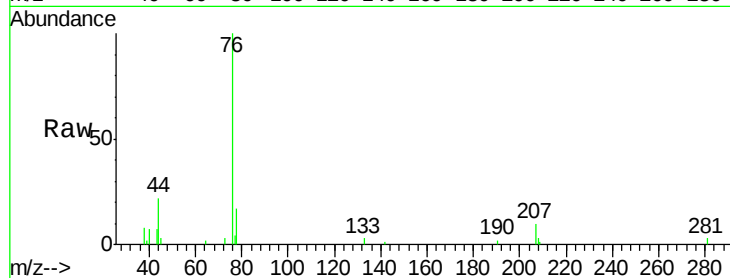
78-64

Tot Ion: 76 Resp: 11639

Ion Ratio Lower Upper

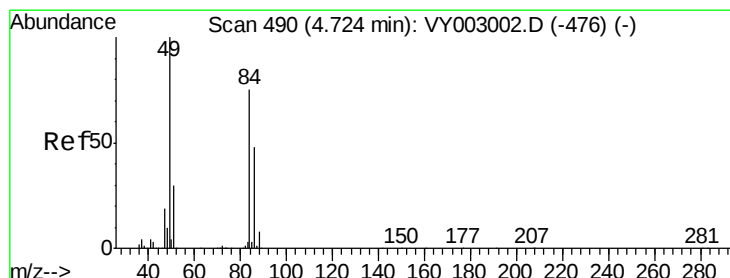
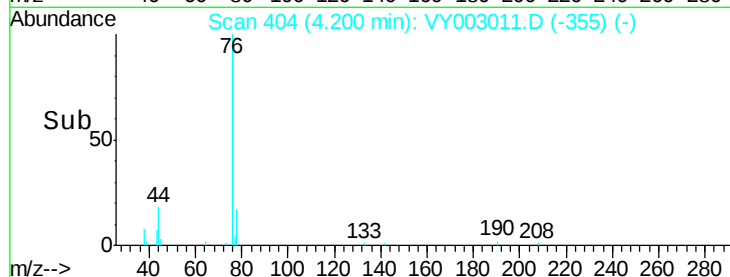
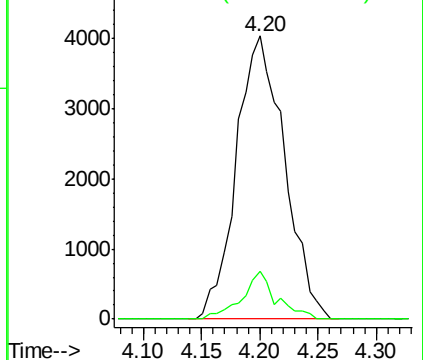
76 100

78 16.7 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#20

Methylene Chloride

Concen: 15.659 ug/l

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

Tgt Ion: 84 Resp: 70498

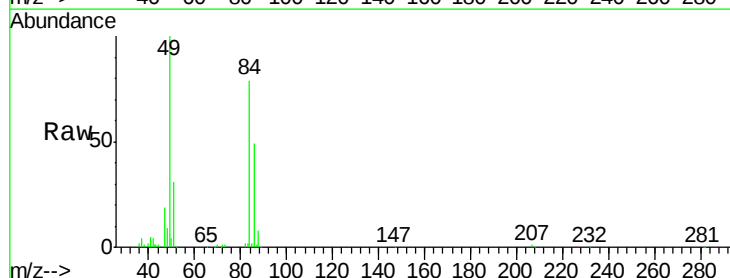
Ion Ratio Lower Upper

84 100

49 126.8 106.8 160.2

51 39.7 32.0 48.0

86 61.6 51.4 77.2

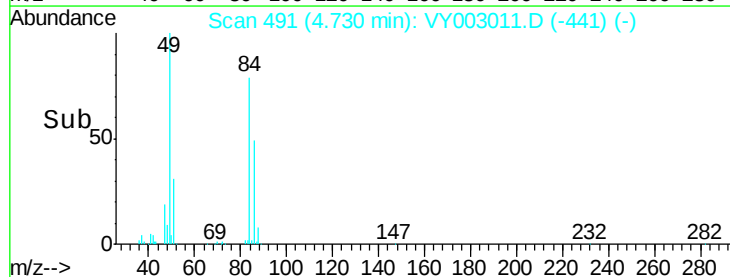
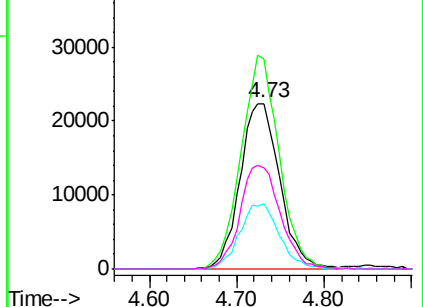


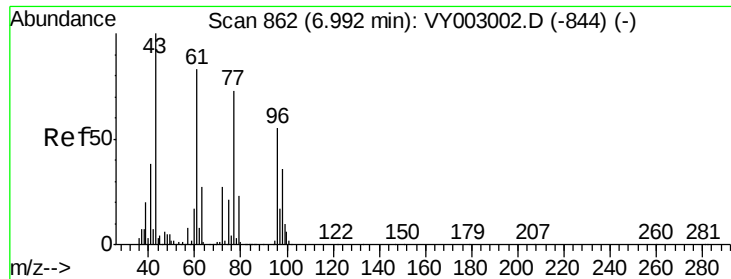
Abundance Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0

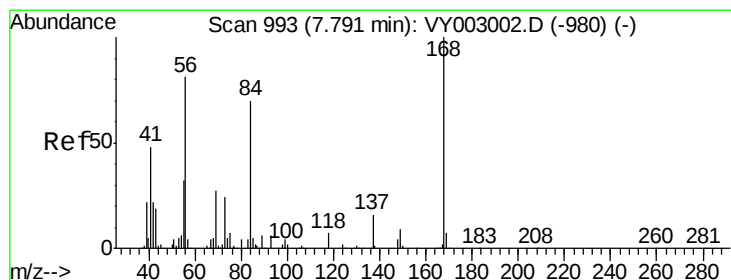
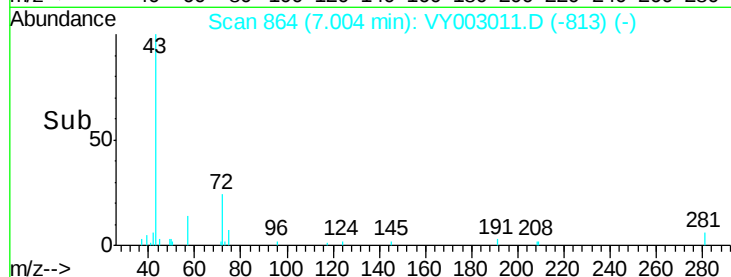
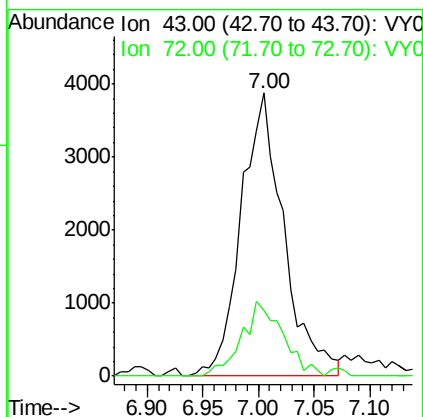
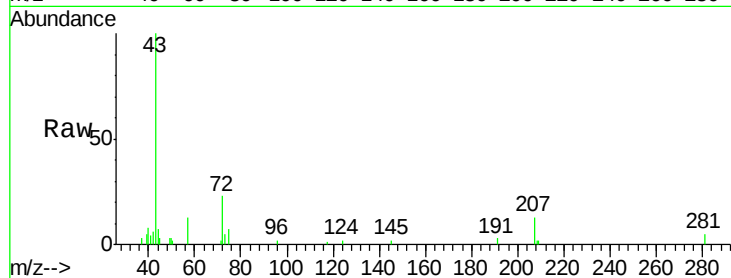




#25
2-Butanone
Concen: 8.443 ug/l
RT: 7.00 min Scan# 864
Delta R.T. 0.01 min
Lab File: VY003011.D
Acq: 29 Jun 2020 17:07

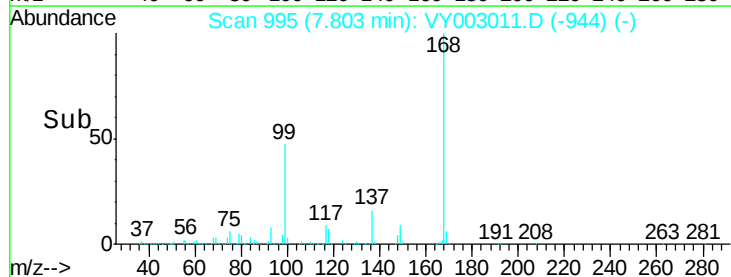
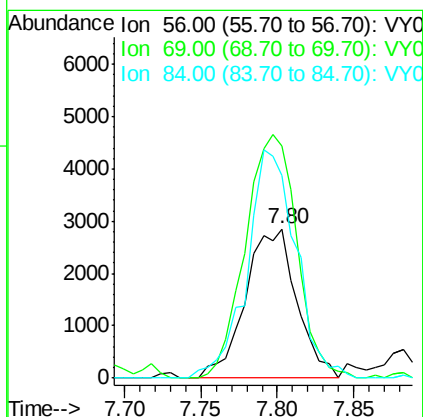
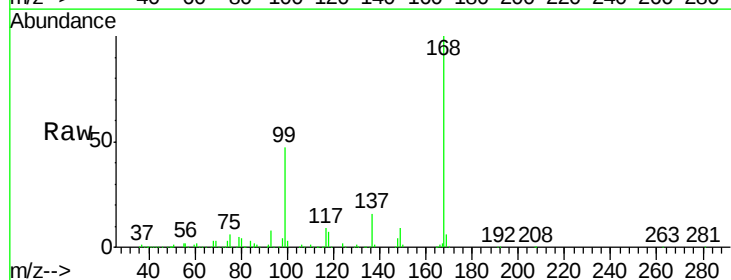
Instrument :
MSVOA_Y
ClientSampleId :
78-64

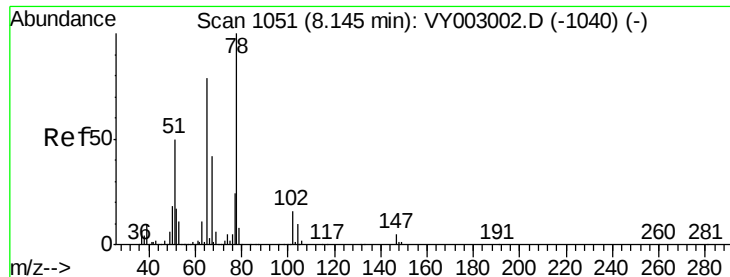
Tot Ion: 43 Resp: 10362
Ion Ratio Lower Upper
43 100
72 23.1 21.4 32.0



#31
Cyclohexane
Concen: 1.154 ug/l
RT: 7.80 min Scan# 995
Delta R.T. 0.01 min
Lab File: VY003011.D
Acq: 29 Jun 2020 17:07

Tgt Ion: 56 Resp: 6650
Ion Ratio Lower Upper
56 100
69 155.8 27.0 40.4#
84 136.0 68.1 102.1#

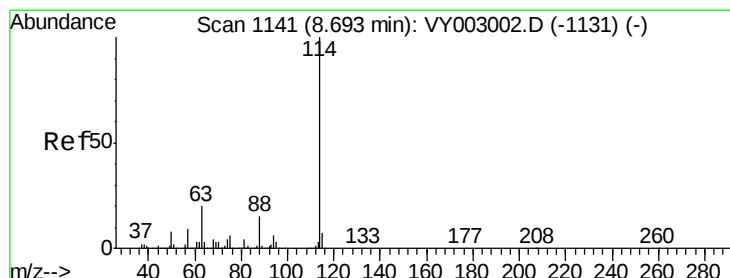
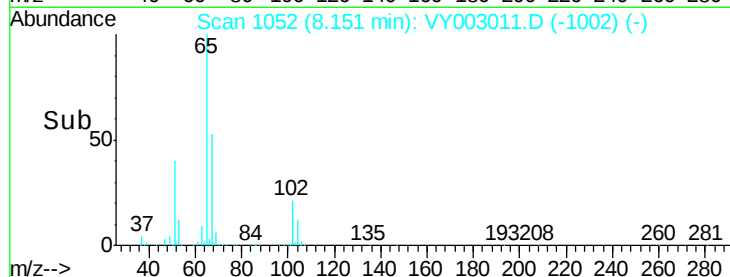
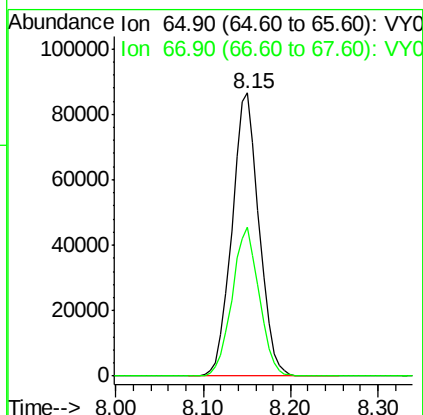
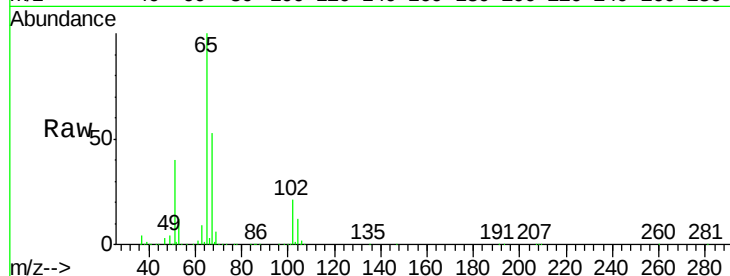




#33
 1,2-Dichloroethane-d4
 Concen: 56.659 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. 0.01 min
 Lab File: VY003011.D
 Acq: 29 Jun 2020 17:07

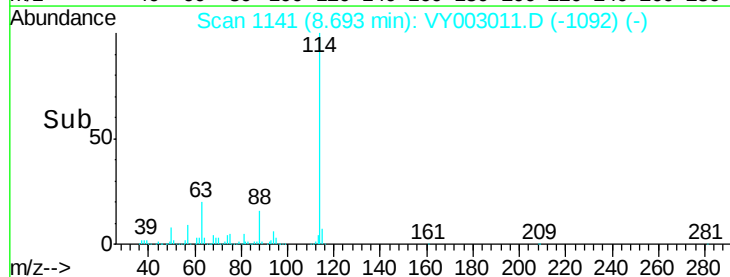
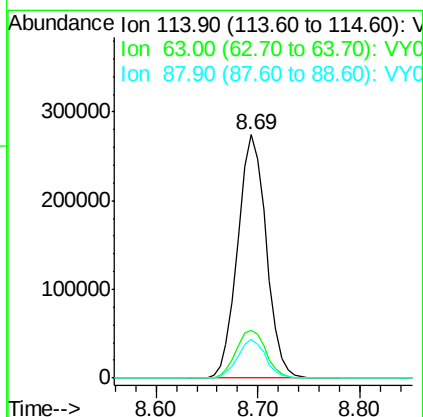
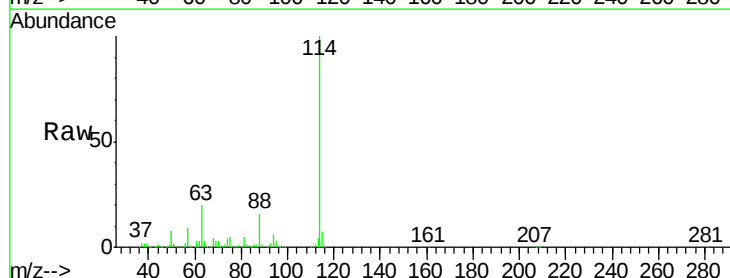
Instrument :
 MSVOA_Y
 ClientSampleId :
 78-64

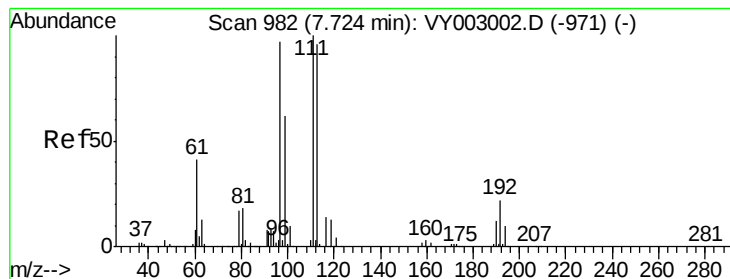
Tot Ion: 65 Resp: 185616
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. -0.00 min
 Lab File: VY003011.D
 Acq: 29 Jun 2020 17:07

Tgt Ion: 114 Resp: 531407
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.6
 88 16.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 52.156 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.00 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

Instrument :

MSVOA_Y

ClientSampleId :

78-64

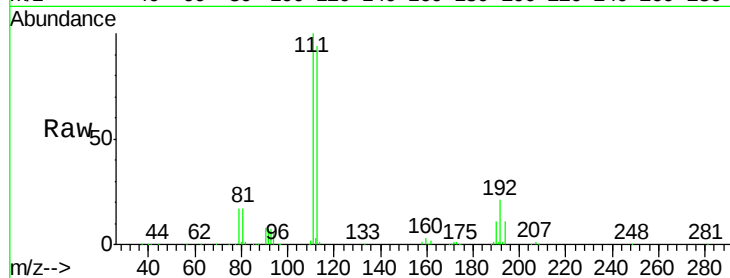
Tot Ion:113 Resp: 172897

Ion Ratio Lower Upper

113 100

111 104.4 82.6 123.8

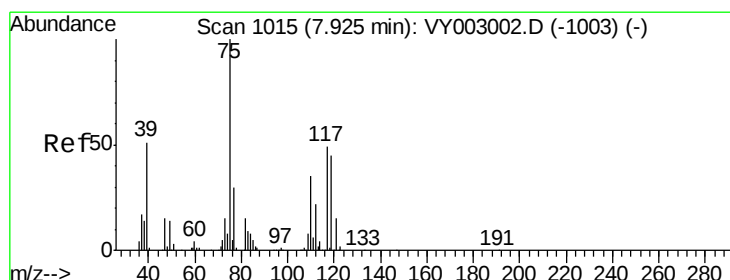
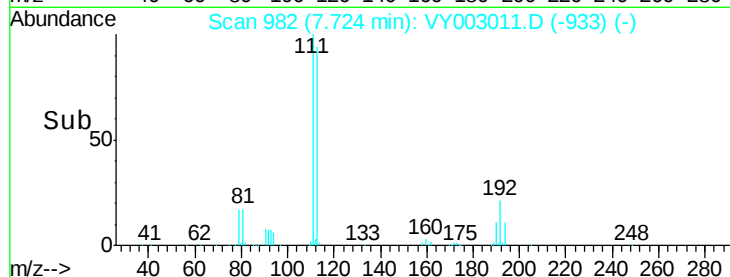
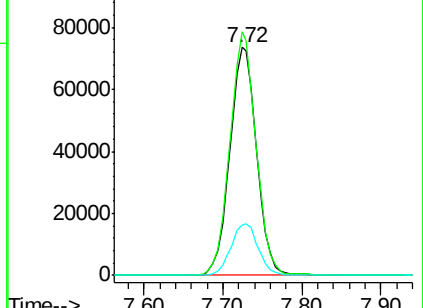
192 23.1 18.1 27.1



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: 4.595 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.13 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

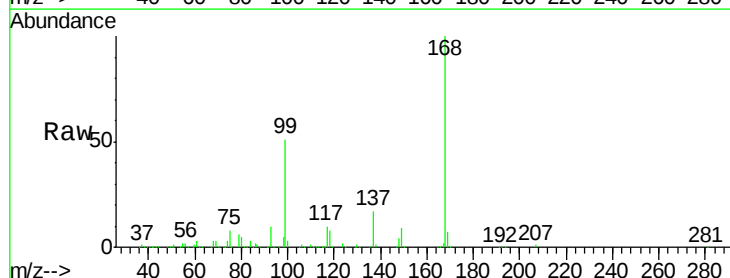
Tgt Ion: 75 Resp: 23518

Ion Ratio Lower Upper

75 100

110 9.8 17.1 51.2#

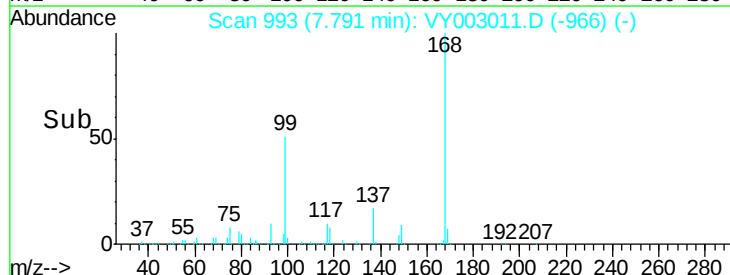
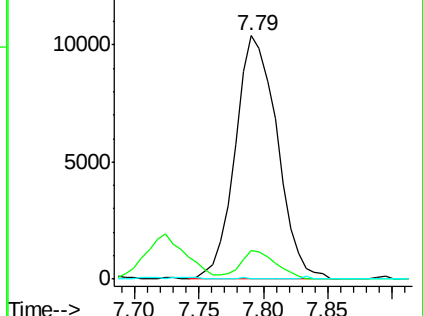
77 0.1 24.9 37.3#

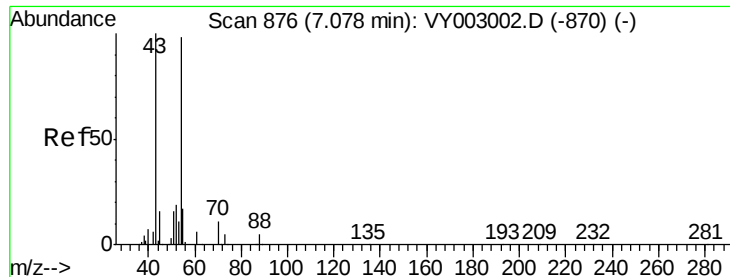


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

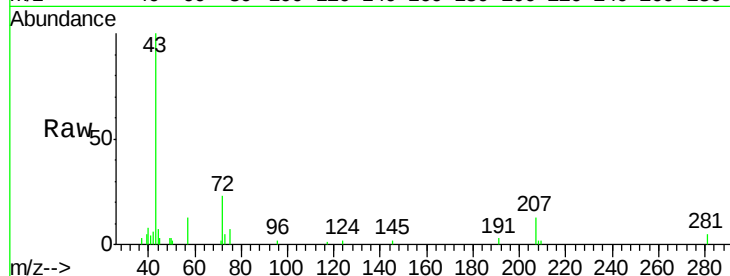




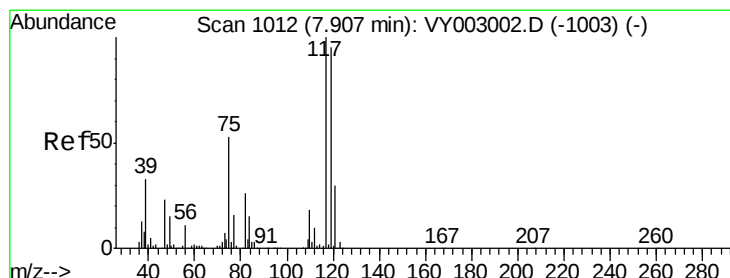
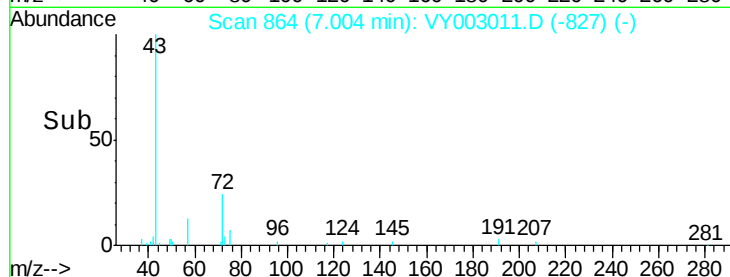
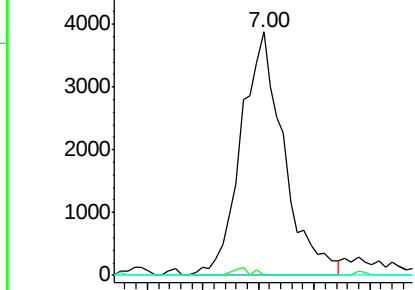
#37
Ethyl Acetate
Concen: 3.367 ug/l
RT: 7.00 min Scan# 864
Delta R.T. -0.07 min
Lab File: VY003011.D
Acq: 29 Jun 2020 17:07

Instrument :
MSVOA_Y
ClientSampleId :
78-64

Tot Ion: 43 Resp: 10362
Ion Ratio Lower Upper
43 100
61 1.2 10.4 15.6#
70 0.0 7.7 11.5#

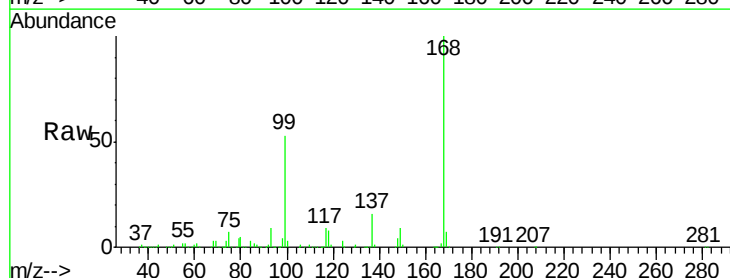


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 70.00 (69.70 to 70.70): VY0

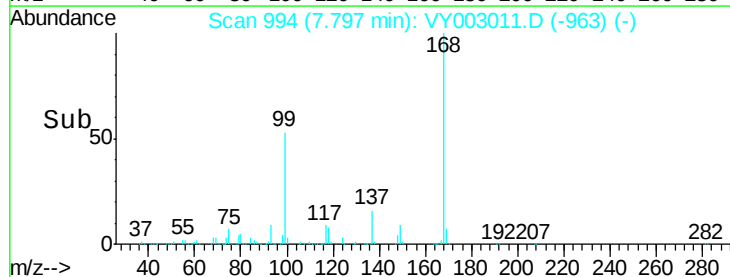
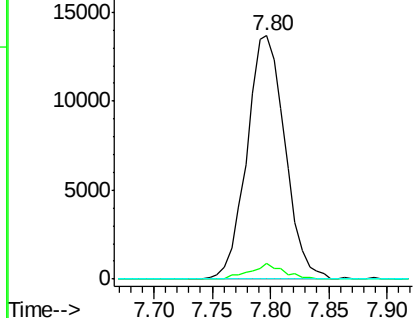


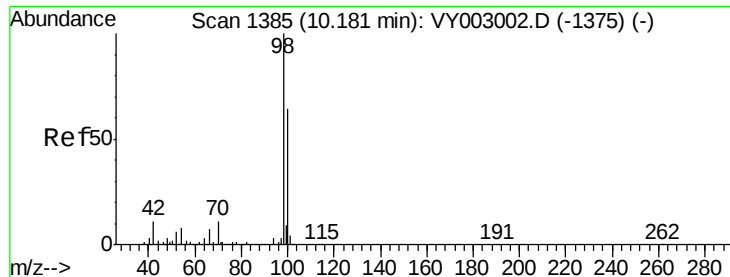
#38
Carbon Tetrachloride
Concen: 5.851 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.11 min
Lab File: VY003011.D
Acq: 29 Jun 2020 17:07

Tgt Ion: 117 Resp: 31160
Ion Ratio Lower Upper
117 100
119 6.3 75.7 113.5#
121 0.0 23.9 35.9#



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: 51.306 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

Instrument :

MSVOA_Y

ClientSampleId :

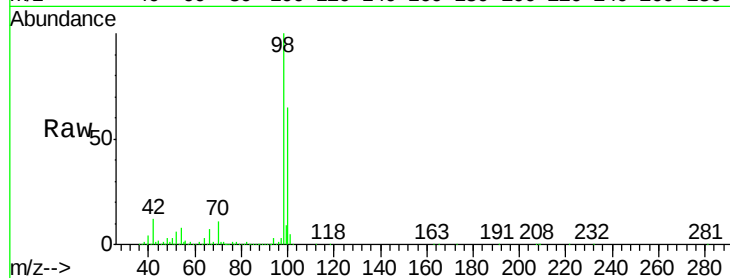
78-64

Tot Ion: 98 Resp: 633625

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0

10.18

400000

300000

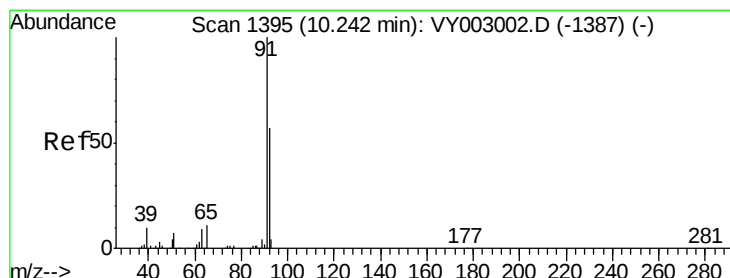
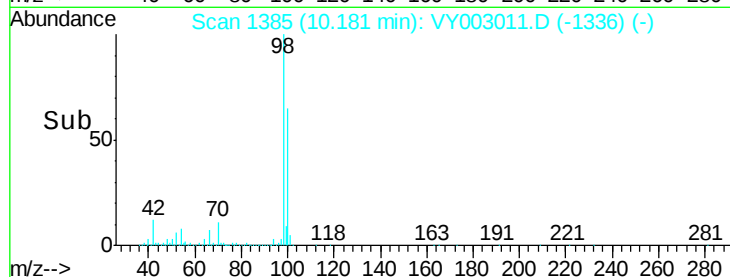
200000

100000

0

Time-->

10.10 10.20 10.30



#52

Toluene

Concen: 1.088 ug/l

RT: 10.24 min Scan# 1395

Delta R.T. -0.00 min

Lab File: VY003011.D

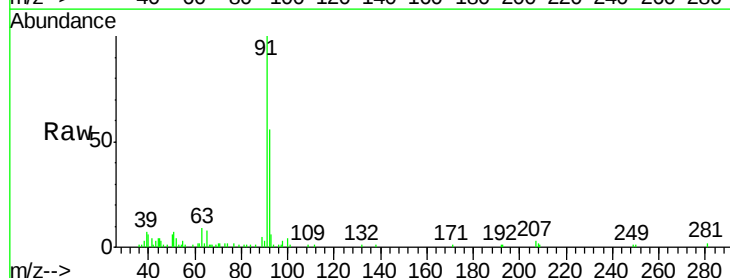
Acq: 29 Jun 2020 17:07

Tgt Ion: 92 Resp: 9599

Ion Ratio Lower Upper

92 100

91 179.2 139.6 209.4



Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0

12000

10000

8000

6000

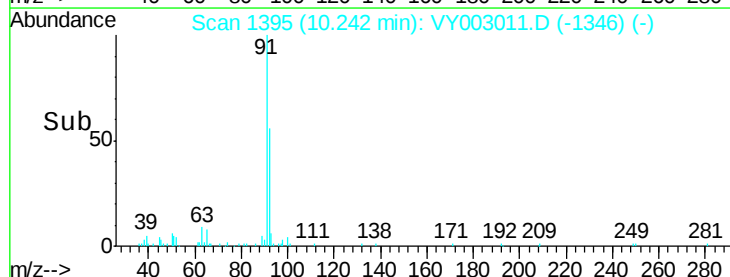
4000

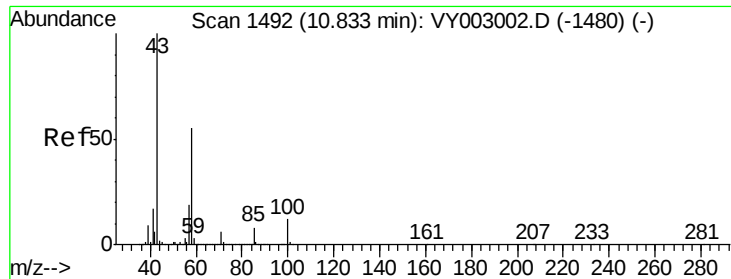
2000

0

Time-->

10.20 10.25 10.30





#59

2-Hexanone

Concen: 1.764 ug/l

RT: 10.80 min Scan# 1487

Delta R.T. -0.03 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

Instrument :

MSVOA_Y

ClientSampled :

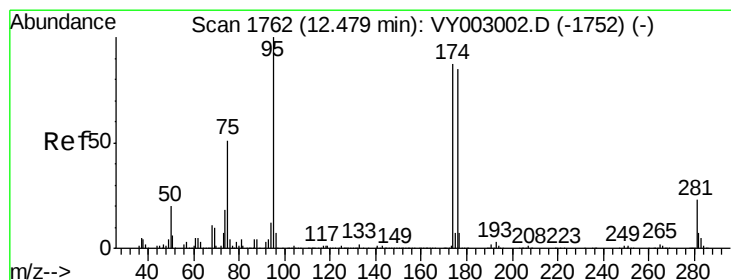
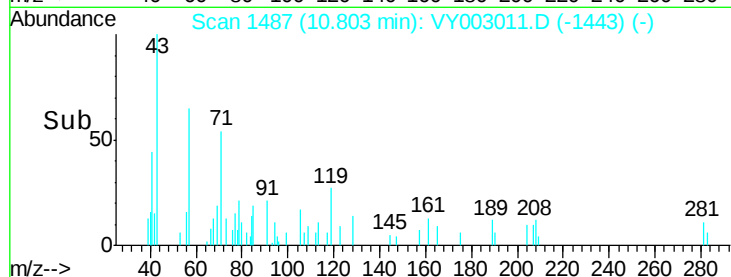
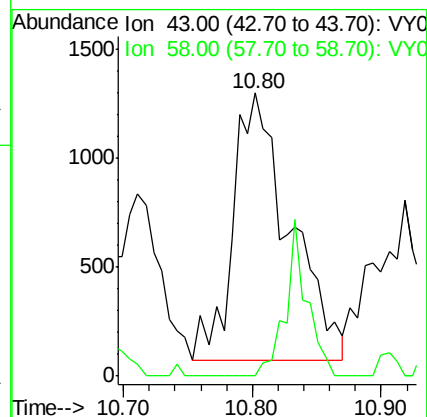
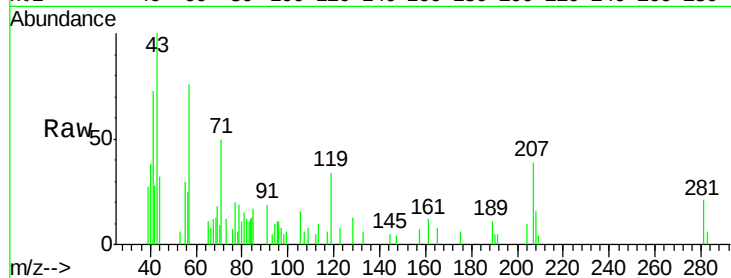
78-64

Tot Ion: 43 Resp: 3728

Ion Ratio Lower Upper

43 100

58 0.0 27.5 82.4#



#62

4-Bromofluorobenzene

Concen: 42.748 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

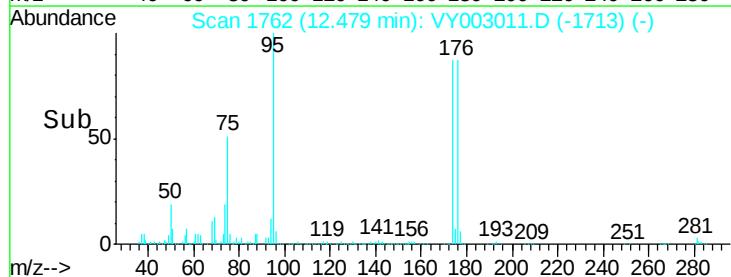
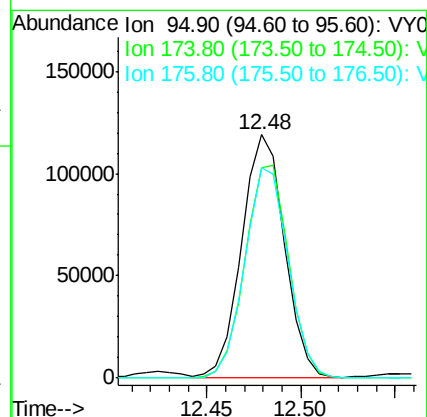
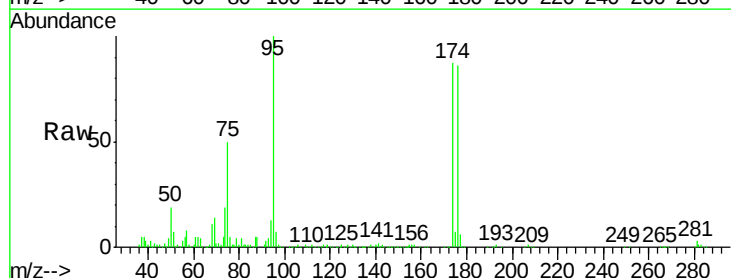
Tgt Ion: 95 Resp: 185831

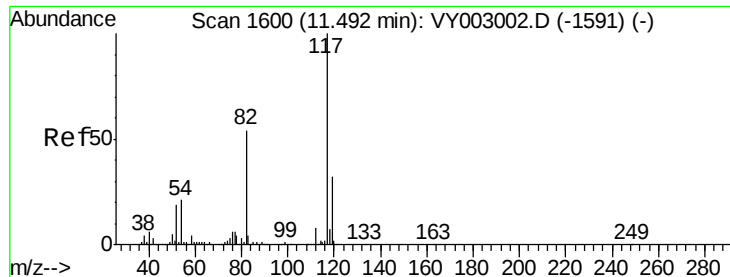
Ion Ratio Lower Upper

95 100

174 90.1 0.0 184.8

176 88.7 0.0 183.0

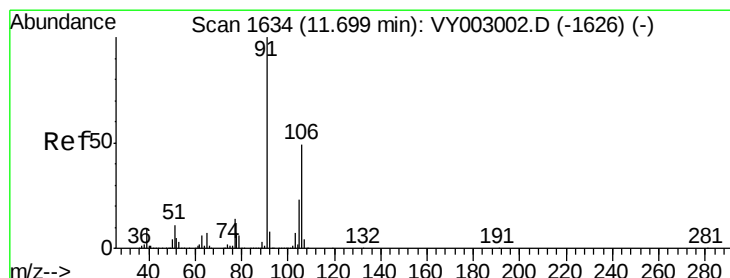
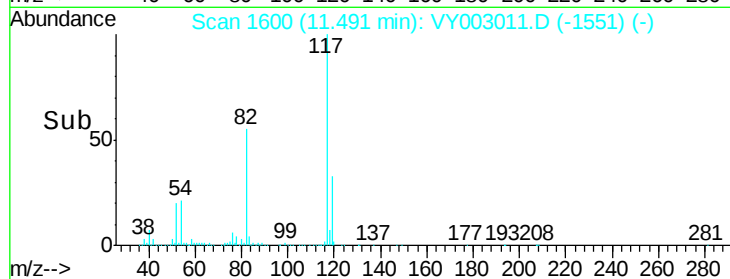
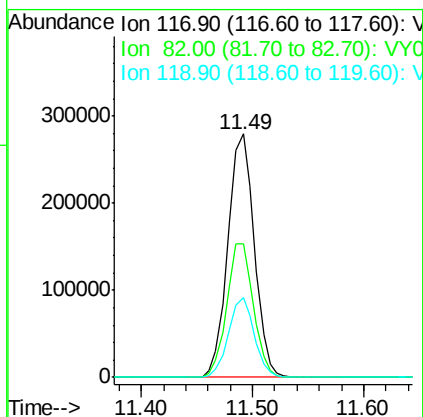
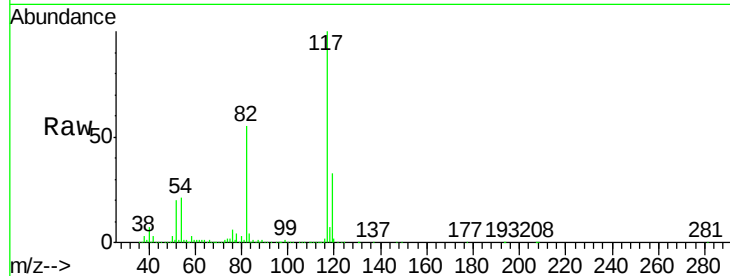




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003011.D
Acq: 29 Jun 2020 17:07

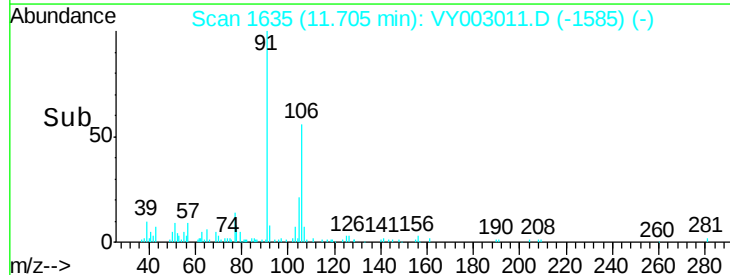
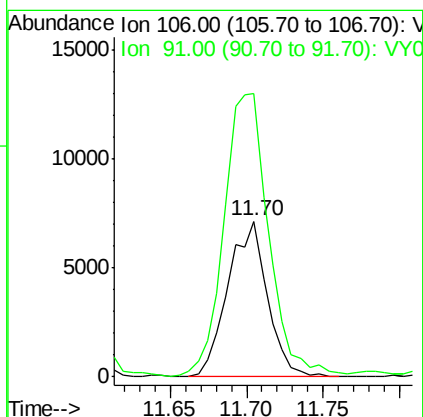
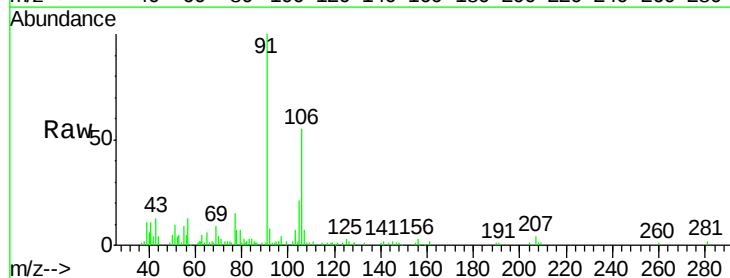
Instrument :
MSVOA_Y
ClientSampleId :
78-64

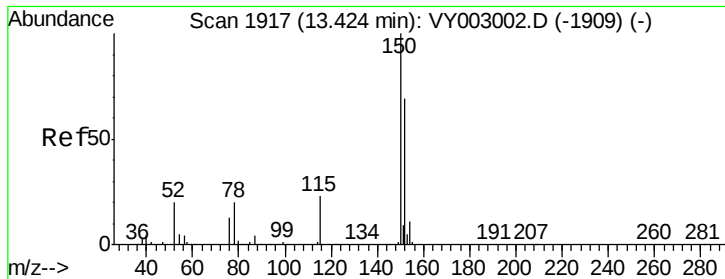
Tot Ion:117 Resp: 458260
Ion Ratio Lower Upper
117 100
82 54.6 43.0 64.6
119 32.8 25.8 38.8



#68
m/p-Xylenes
Concen: 2.067 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VY003011.D
Acq: 29 Jun 2020 17:07

Tgt Ion:106 Resp: 12717
Ion Ratio Lower Upper
106 100
91 207.3 161.9 242.9



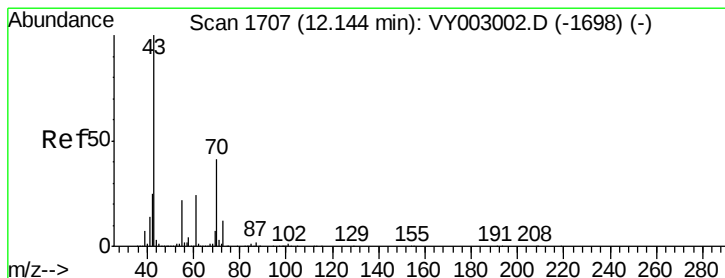
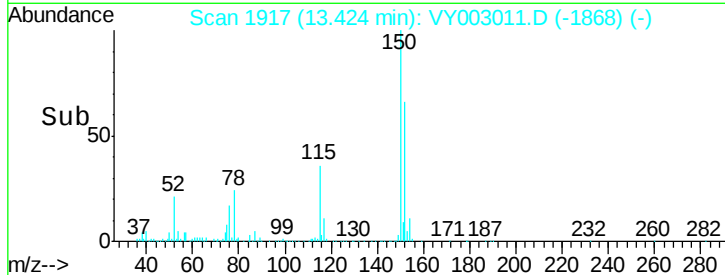
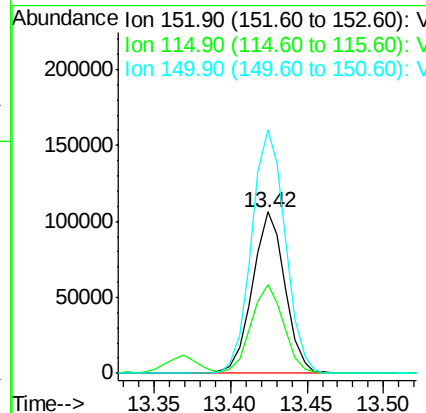
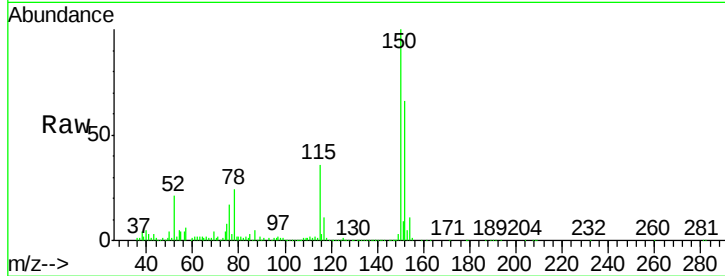


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY003011.D
Acq: 29 Jun 2020 17:07

Instrument :
MSVOA_Y
ClientSampleId :
78-64

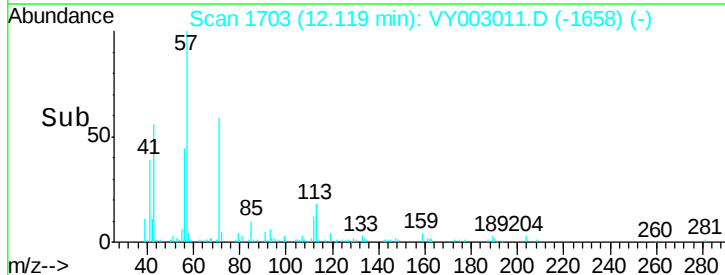
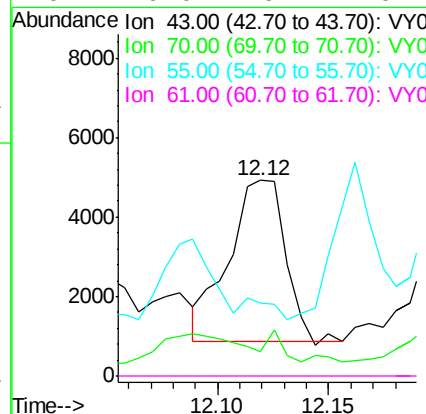
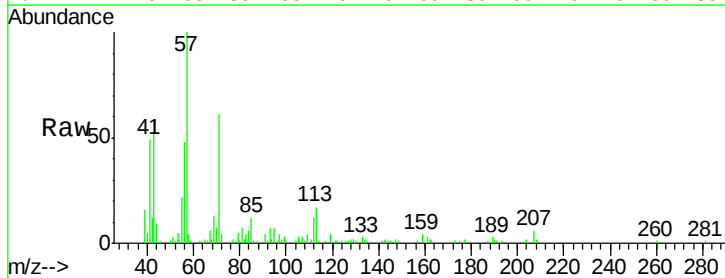
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.1	27.3	81.9
150	156.4	0.0	343.4

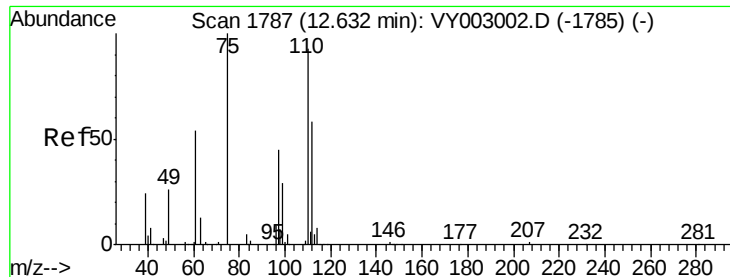


#74

N-ethyl acetate
Concen: 2.139 ug/l
RT: 12.12 min Scan# 1703
Delta R.T. -0.02 min
Lab File: VY003011.D
Acq: 29 Jun 2020 17:07

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	33.0	49.4#
55	0.0	18.2	27.2#
61	0.0	19.4	29.2#





#76

1,2,3-Trichloropropane

Concen: 61.636 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

Instrument :

MSVOA_Y

ClientSampleId :

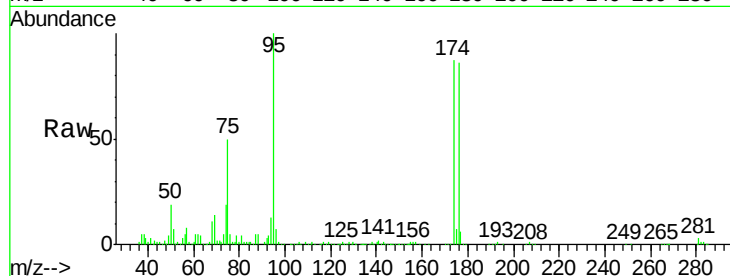
78-64

Tot Ion: 75 Resp: 95841

Ion Ratio Lower Upper

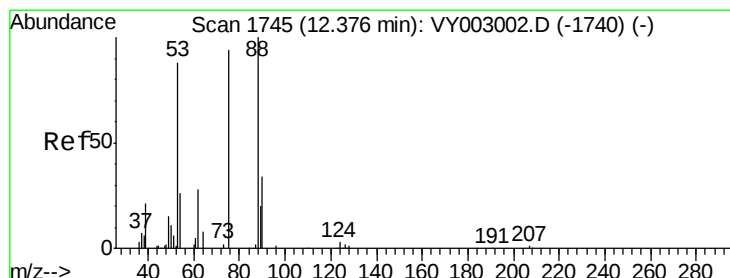
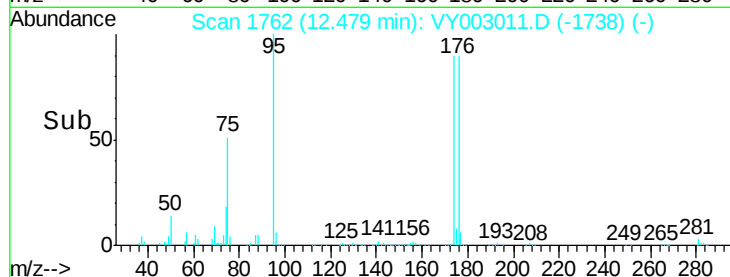
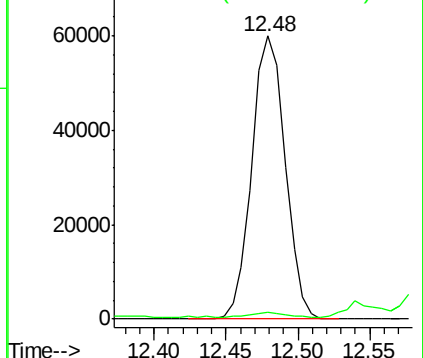
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0



#81

trans-1,4-Dichloro-2-butene

Concen: 119.918 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

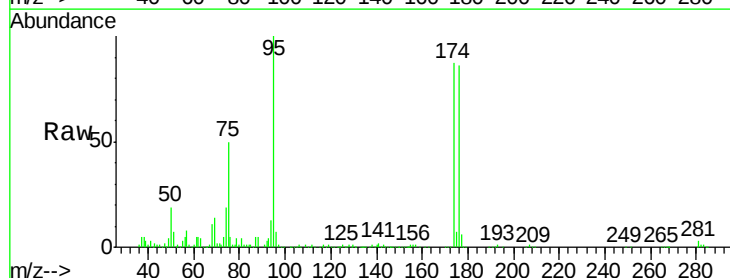
Tgt Ion: 75 Resp: 95841

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

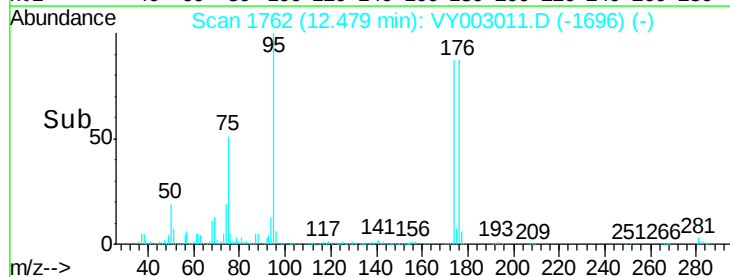
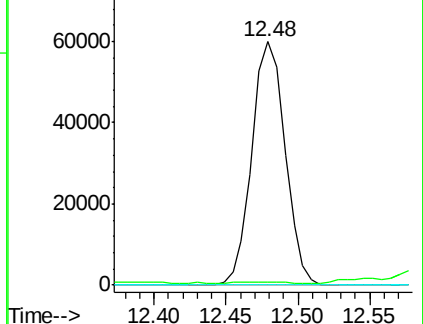
89 0.3 37.5 56.3#

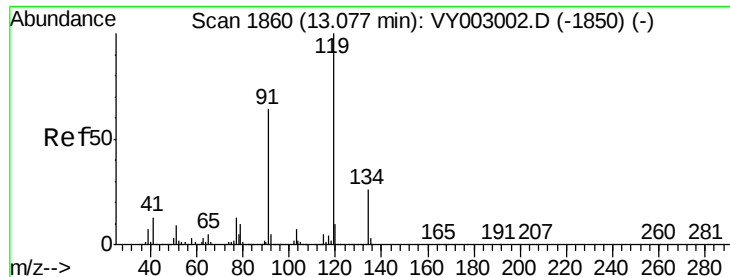


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#83

tert-Butylbenzene

Concen: 1.641 ug/l

RT: 13.31 min Scan# 1898

Delta R.T. 0.23 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

Instrument :

MSVOA_Y

ClientSampleId :

78-64

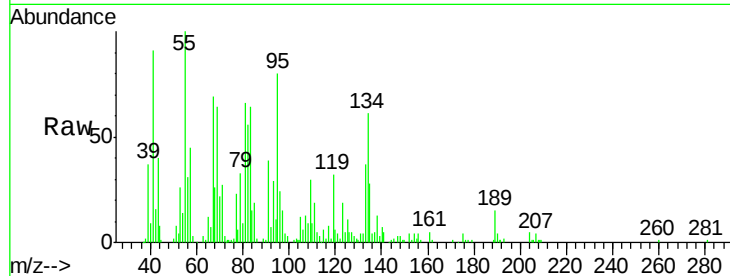
Tot Ion:119 Resp: 12432

Ion Ratio Lower Upper

119 100

91 56.7 31.6 95.0

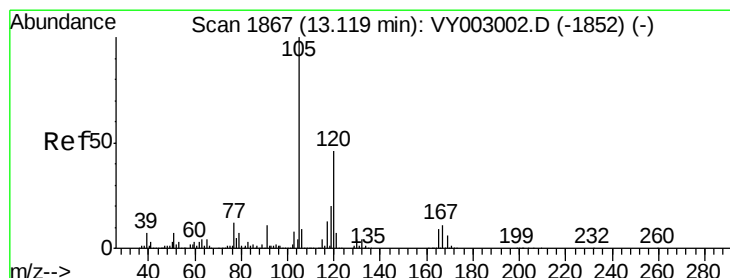
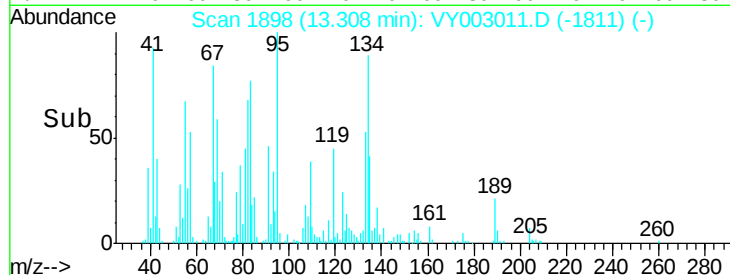
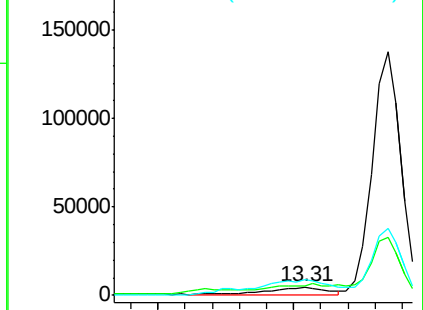
134 133.2 13.2 39.5#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VY0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 1.253 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY003011.D

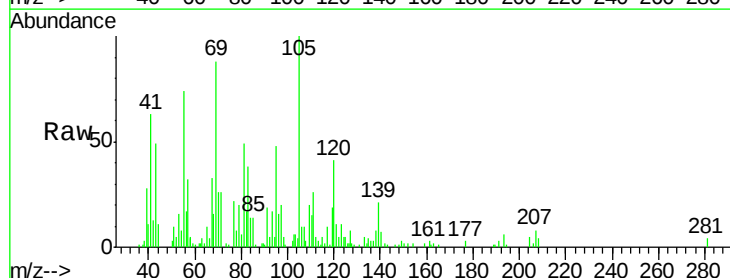
Acq: 29 Jun 2020 17:07

Tgt Ion:105 Resp: 10891

Ion Ratio Lower Upper

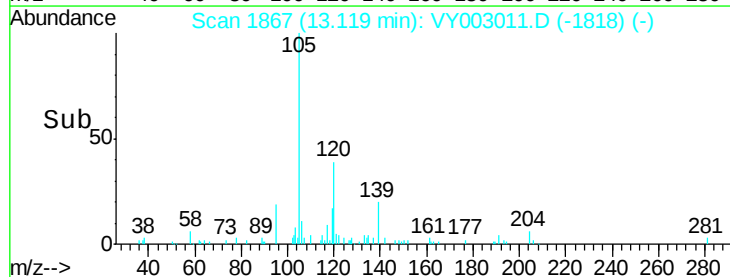
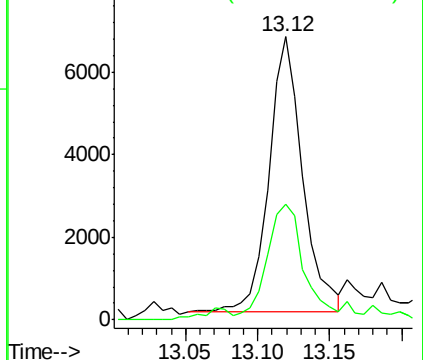
105 100

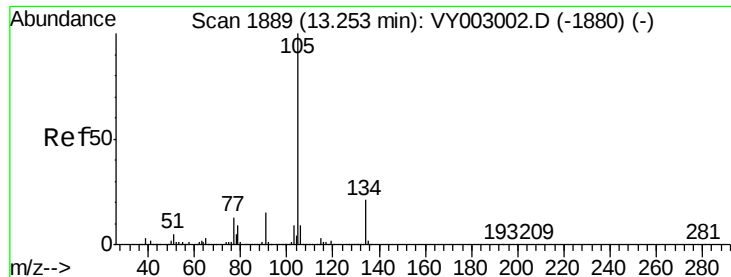
120 42.0 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 1.656 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

Instrument :

MSVOA_Y

ClientSampled :

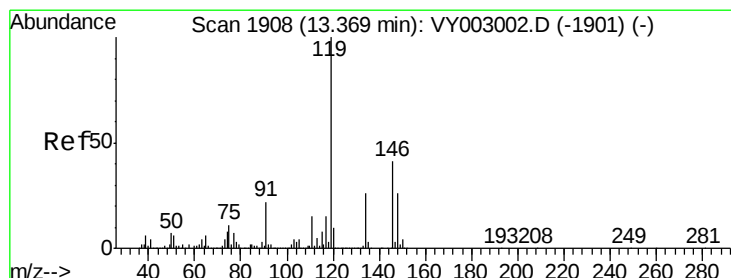
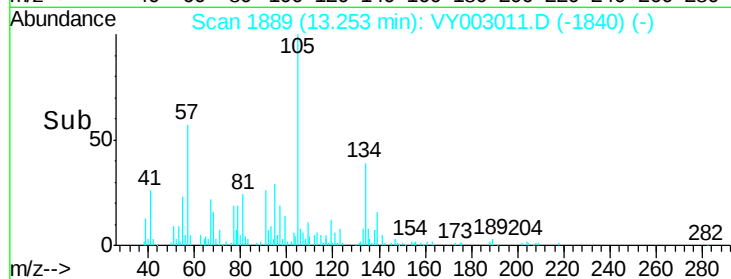
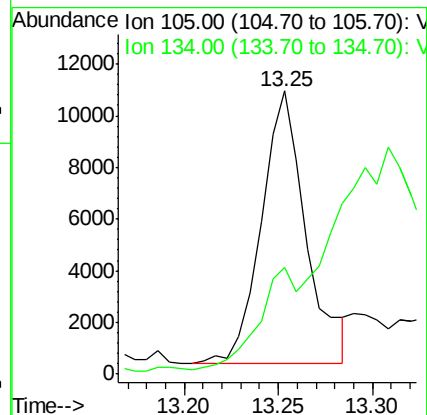
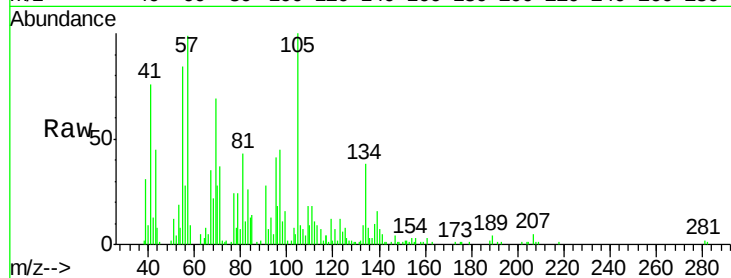
78-64

Tot Ion:105 Resp: 17294

Ion Ratio Lower Upper

105 100

134 32.5 10.4 31.2#



#86

p-Isopropyltoluene

Concen: 20.730 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.00 min

Lab File: VY003011.D

Acq: 29 Jun 2020 17:07

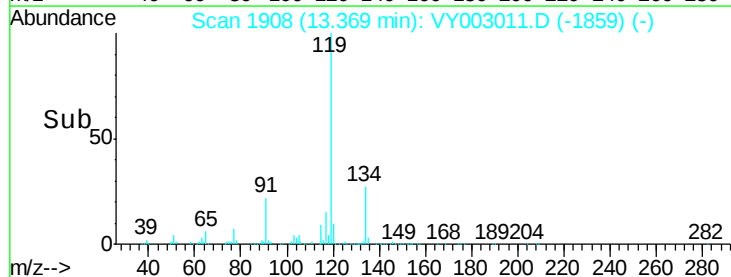
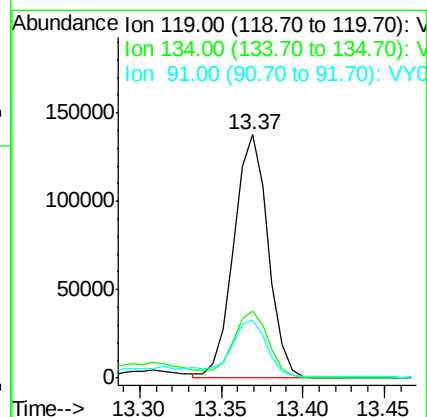
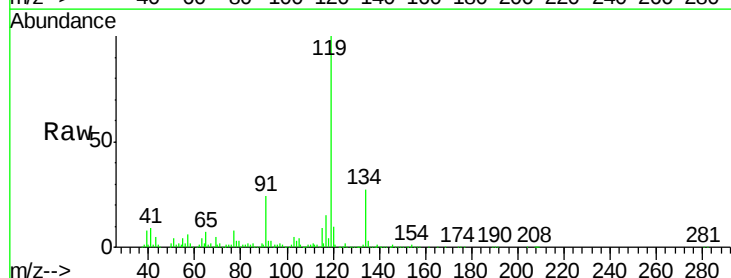
Tgt Ion:119 Resp: 200602

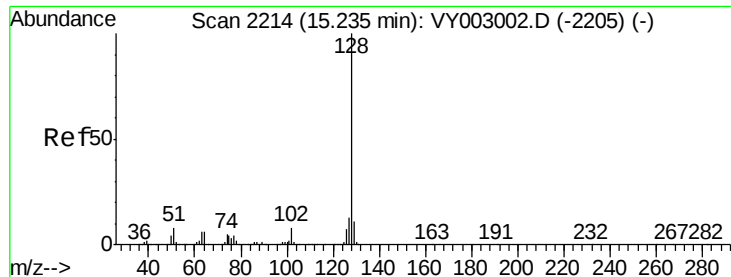
Ion Ratio Lower Upper

119 100

134 27.7 13.5 40.4

91 24.0 11.5 34.5

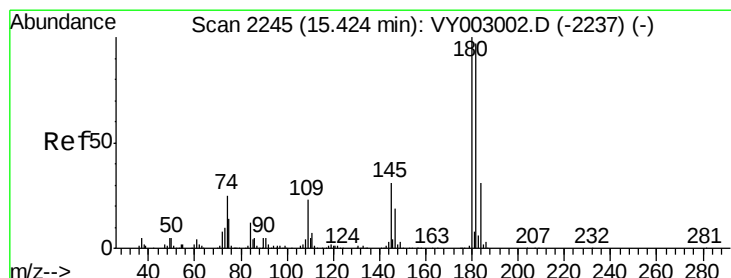
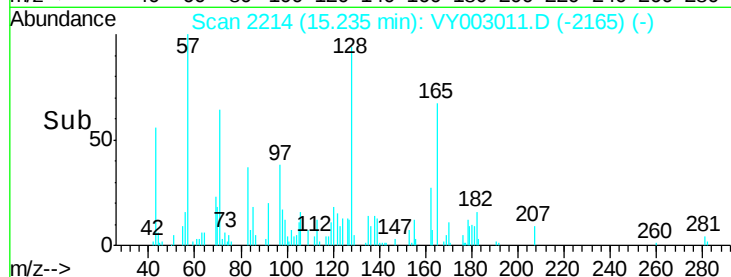
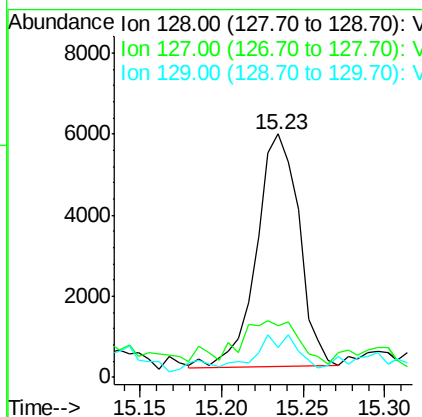
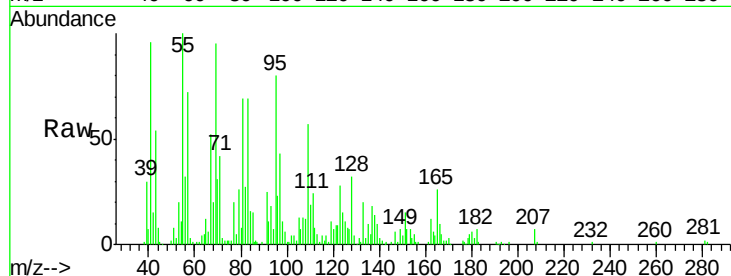




#95
Naphthalene
Concen: 1.737 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VY003011.D
Acq: 29 Jun 2020 17:07

Instrument :
MSVOA_Y
ClientSampled :
78-64

Tot Ion:128 Resp: 10412
Ion Ratio Lower Upper
128 100
127 24.2 10.8 16.2#
129 12.4 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 2.293 ug/l
RT: 15.44 min Scan# 2248
Delta R.T. 0.02 min
Lab File: VY003011.D
Acq: 29 Jun 2020 17:07

Tgt Ion:180 Resp: 6535
Ion Ratio Lower Upper
180 100
182 50.8 47.8 143.3
145 0.0 14.7 44.1#

