

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030923\
 Data File : VY012893.D
 Acq On : 09 Mar 2023 12:55
 Operator : KP/MD
 Sample : 01847-01
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-05-030823

Quant Time: Mar 10 00:29:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030223S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 03 01:13:13 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

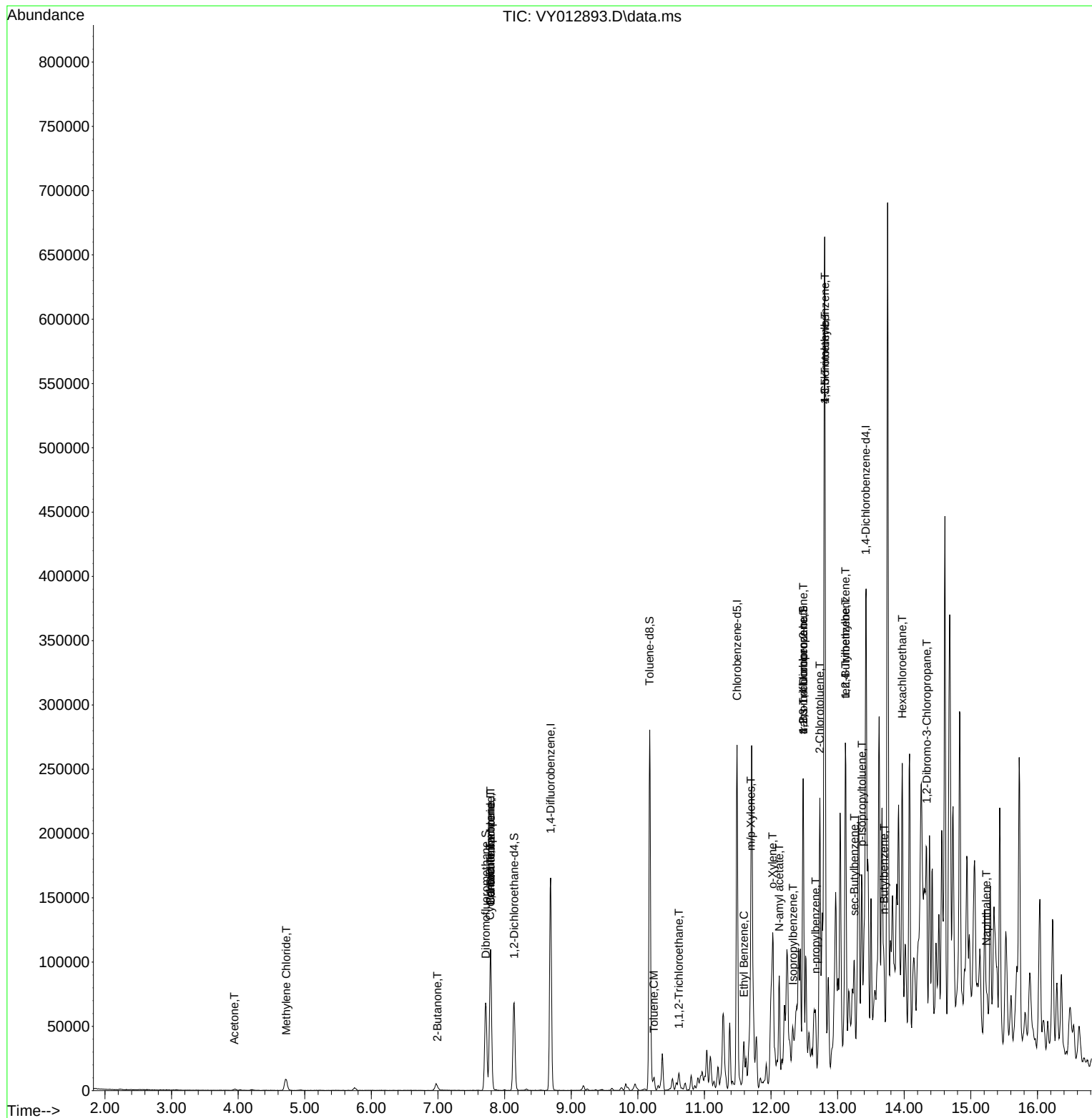
Internal Standards						
1) Pentafluorobenzene	7.789	168	84366	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	140873	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	138216	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	67692	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	53185	63.493	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 126.980%			
35) Dibromofluoromethane	7.716	113	47121	55.426	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.860%			
50) Toluene-d8	10.179	98	172068	55.362	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 110.720%			
62) 4-Bromofluorobenzene	12.483	95	61809	58.920	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 117.840%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.942	59	386	Below Cal	#	74
16) Acetone	3.942	43	1915	5.825	ug/l	94
20) Methylene Chloride	4.722	84	6431	1.162	ug/l	91
25) 2-Butanone	6.990	43	458	1.125	ug/l	# 49
31) Cyclohexane	7.783	56	1935	1.206	ug/l	# 1
36) 1,1-Dichloropropene	7.789	75	6460	4.534	ug/l	# 48
38) Carbon Tetrachloride	7.789	117	7858	5.341	ug/l	# 15
52) Toluene	10.240	92	3777	1.554	ug/l	94
55) 1,1,2-Trichloroethane	10.618	97	4644	5.747	ug/l	# 19
67) Ethyl Benzene	11.593	91	19801	3.882	ug/l	96
68) m/p-Xylenes	11.697	106	23687	12.073	ug/l	100
69) o-Xylene	12.026	106	23554	12.863	ug/l	99
73) Isopropylbenzene	12.331	105	10426	2.173	ug/l	96
74) N-amyl acetate	12.123	43	15919	10.546	ug/l	# 63
76) 1,2,3-Trichloropropane	12.483	75	32619	40.353	ug/l	# 100
78) n-propylbenzene	12.672	91	28005	4.735	ug/l	98
79) 2-Chlorotoluene	12.733	91	13408	4.079	ug/l	# 40
80) 1,3,5-Trimethylbenzene	12.812	105	48334	12.208	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.483	75	32619	83.612	ug/l	# 13
82) 4-Chlorotoluene	12.812	91	5674	1.667	ug/l	# 50
83) tert-Butylbenzene	13.117	119	14674	4.294	ug/l	# 65
84) 1,2,4-Trimethylbenzene	13.117	105	118171	30.524	ug/l	99
85) sec-Butylbenzene	13.251	105	24372	4.675	ug/l	91
86) p-Isopropyltoluene	13.367	119	15780	3.704	ug/l	98
89) n-Butylbenzene	13.696	91	20379	4.996	ug/l	# 72
90) Hexachloroethane	13.971	117	7738	8.720	ug/l	# 10
92) 1,2-Dibromo-3-Chloropr...	14.336	75	601	3.448	ug/l	# 1
95) Naphthalene	15.233	128	7772	3.100	ug/l	# 81

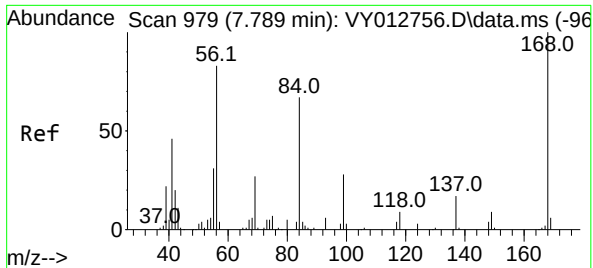
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
TR-05-030823

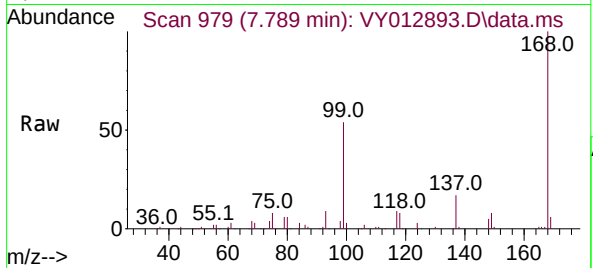
Quant Time: Mar 10 00:29:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030223S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 03 01:13:13 2023
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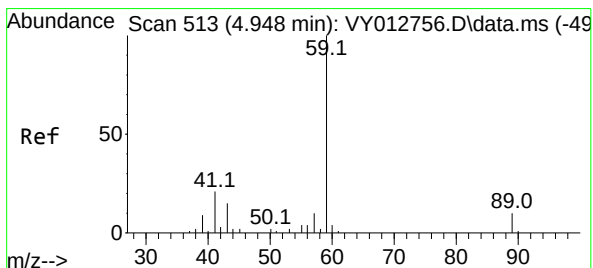
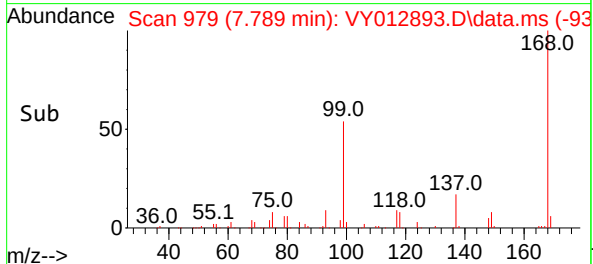
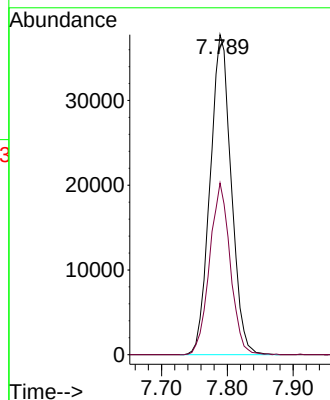


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

Instrument :
MSVOA_Y
ClientSampleId :
TR-05-030823

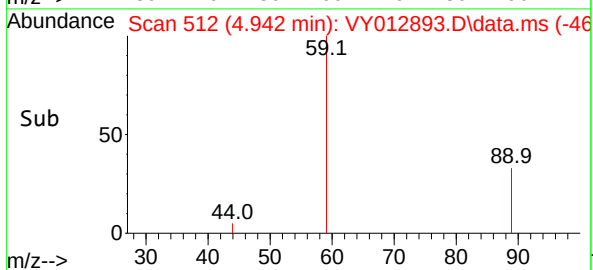
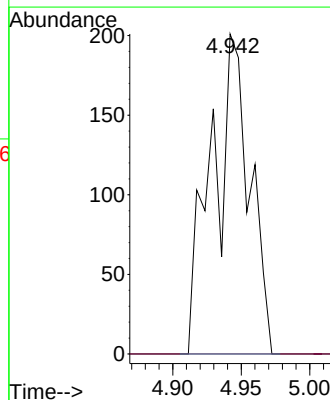
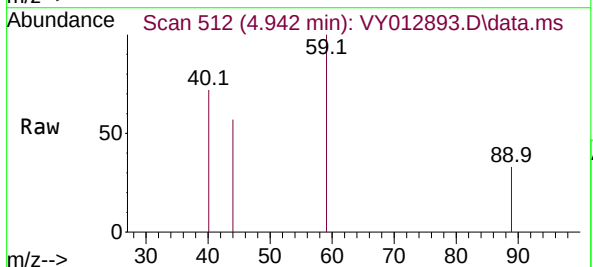


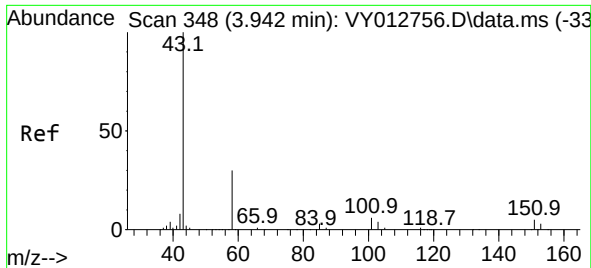
Tgt Ion:168 Resp: 84366
Ion Ratio Lower Upper
168 100
99 53.7 41.7 62.5



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.942 min Scan# 512
Delta R.T. -0.006 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

Tgt Ion: 59 Resp: 386
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

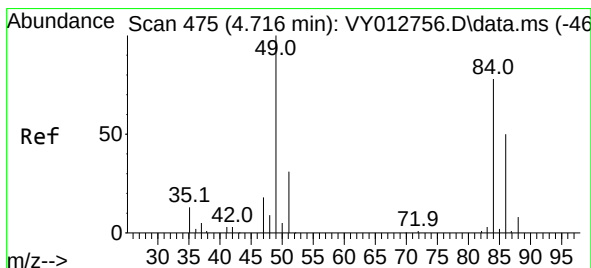
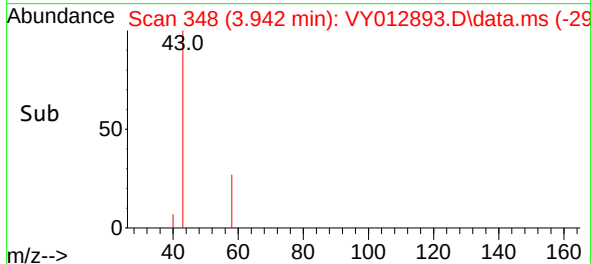
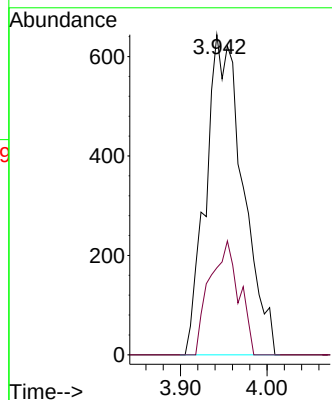
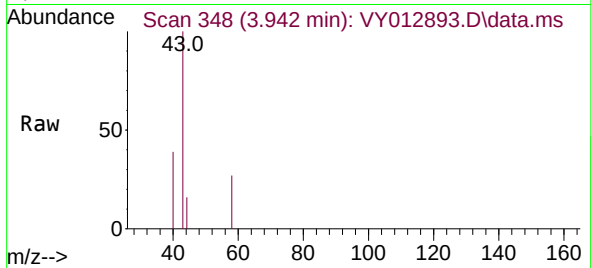




#16
Acetone
Concen: 5.825 ug/l
RT: 3.942 min Scan# 348
Delta R.T. -0.000 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

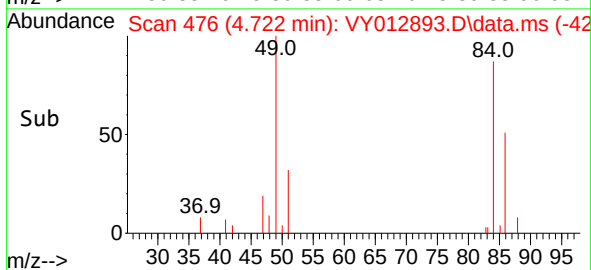
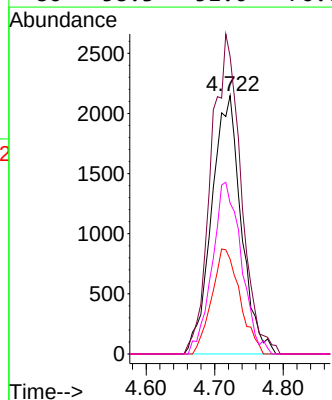
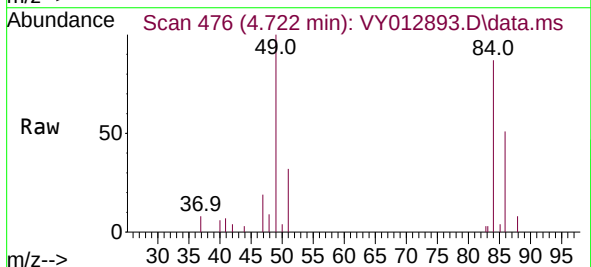
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-030823

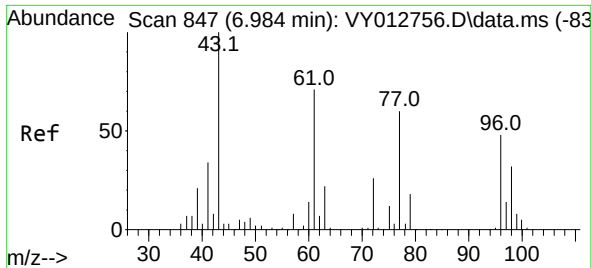
Tgt Ion: 43 Resp: 1915
Ion Ratio Lower Upper
43 100
58 27.2 24.2 36.2



#20
Methylene Chloride
Concen: 1.162 ug/l
RT: 4.722 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

Tgt Ion: 84 Resp: 6431
Ion Ratio Lower Upper
84 100
49 115.1 102.6 154.0
51 36.7 31.9 47.9
86 58.3 51.0 76.6

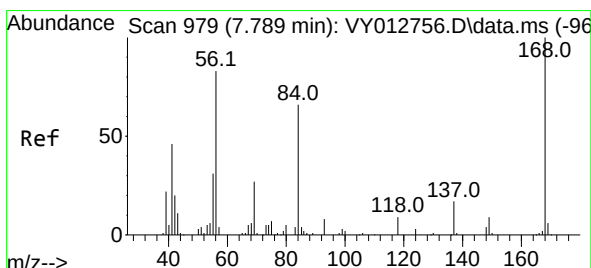
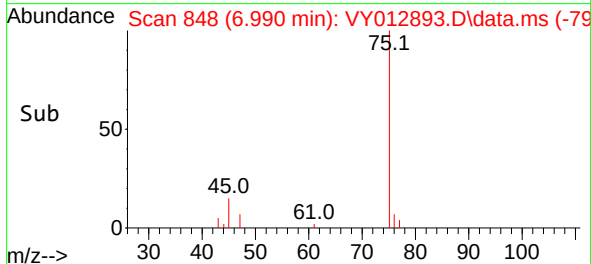
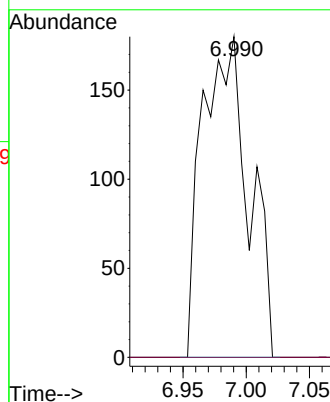
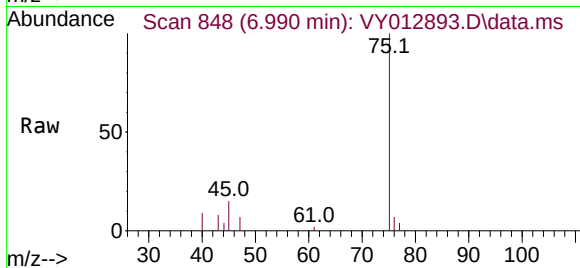




#25
2-Butanone
Concen: 1.125 ug/l
RT: 6.990 min Scan# 847
Delta R.T. 0.006 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

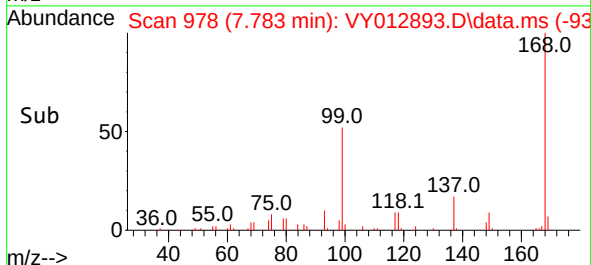
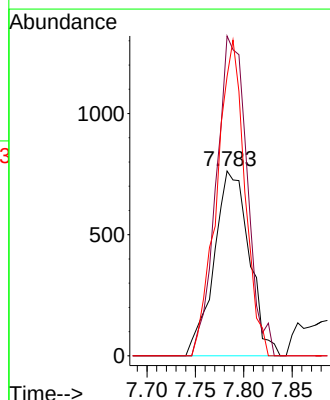
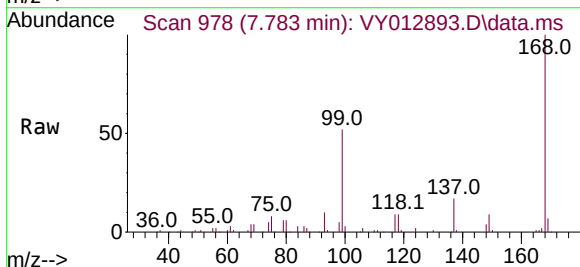
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-030823

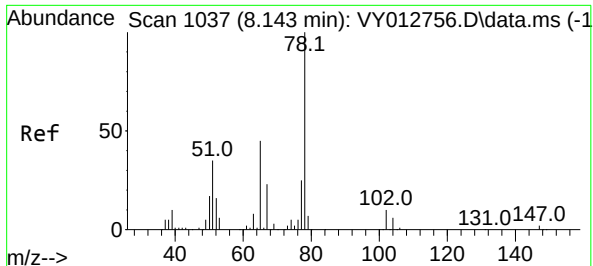
Tgt Ion: 43 Resp: 458
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.4#



#31
Cyclohexane
Concen: 1.206 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.006 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

Tgt Ion: 56 Resp: 1935
Ion Ratio Lower Upper
56 100
69 173.0 25.7 38.5#
84 151.1 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 63.493 ug/l

RT: 8.142 min Scan# 1037

Delta R.T. -0.001 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

Instrument :

MSVOA_Y

ClientSampleId :

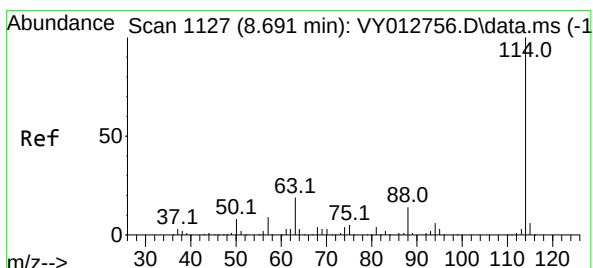
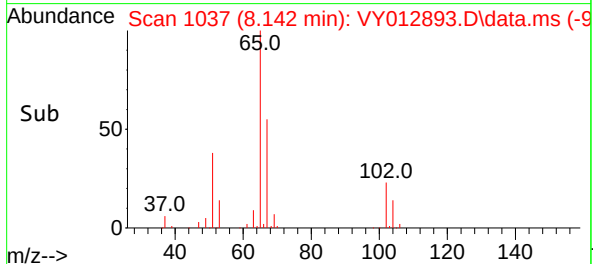
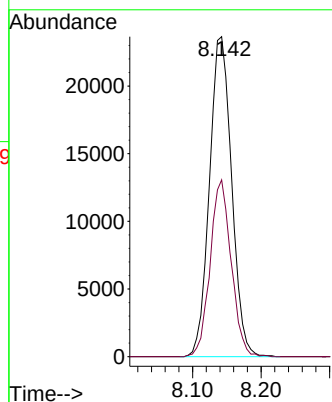
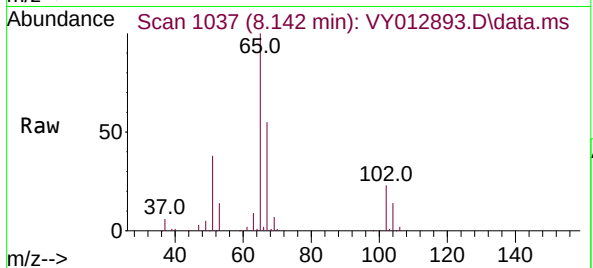
TR-05-030823

Tgt Ion: 65 Resp: 53185

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

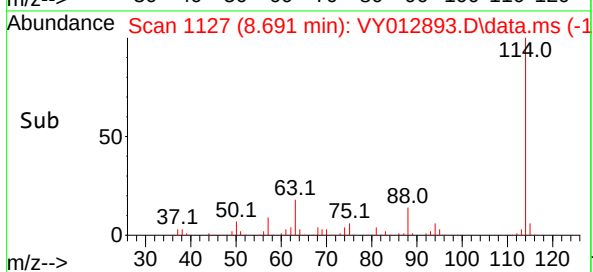
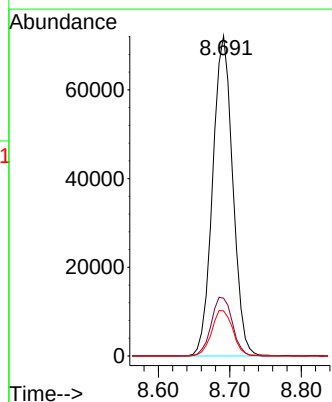
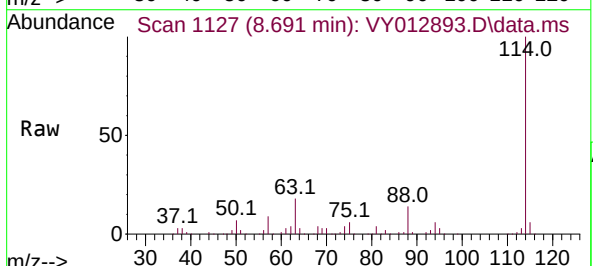
Tgt Ion: 114 Resp: 140873

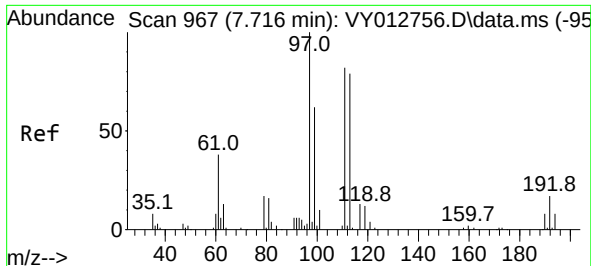
Ion Ratio Lower Upper

114 100

63 18.1 0.0 37.4

88 14.1 0.0 28.6

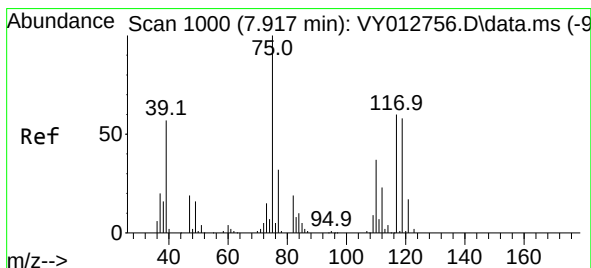
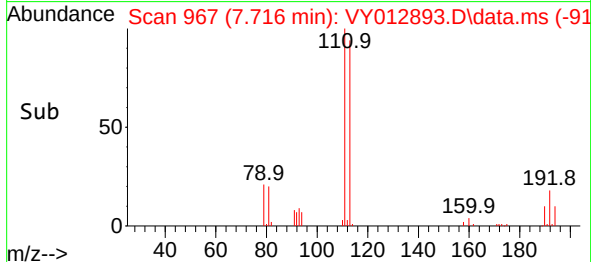
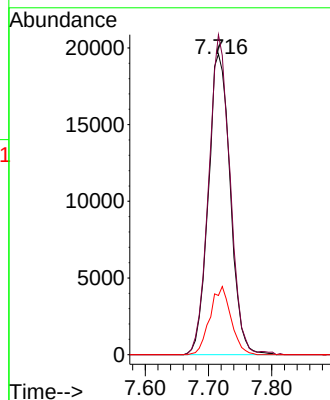
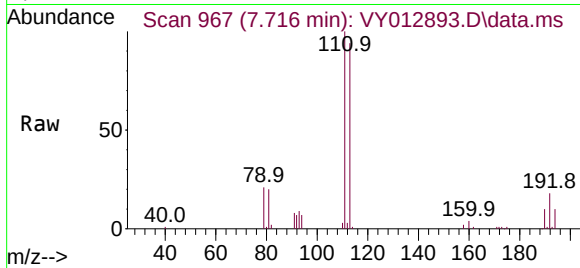




#35
Dibromofluoromethane
Concen: 55.426 ug/l
RT: 7.716 min Scan# 911
Delta R.T. -0.000 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

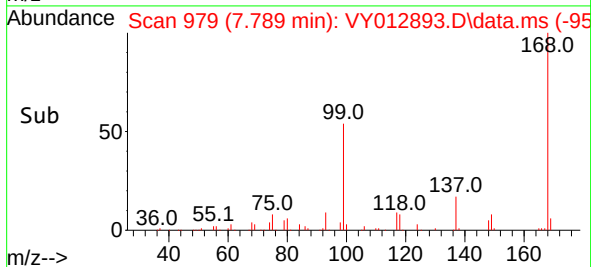
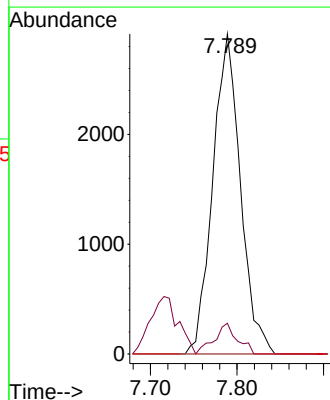
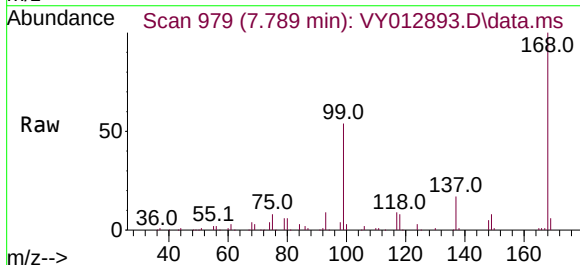
Instrument :
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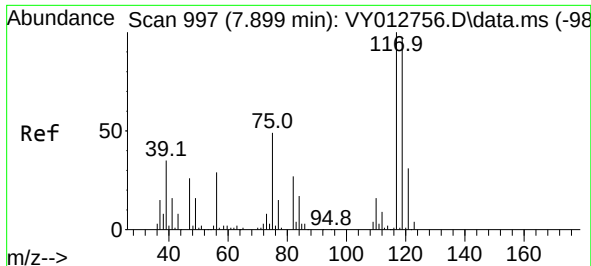
Tgt Ion:	113	Resp:	47121
Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.2	123.2
192	21.8	16.8	25.2



#36
1,1-Dichloropropene
Concen: 4.534 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.128 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

Tgt Ion:	75	Resp:	6460
Ion	Ratio	Lower	Upper
75	100		
110	7.9	17.8	53.3#
77	0.0	25.0	37.4#

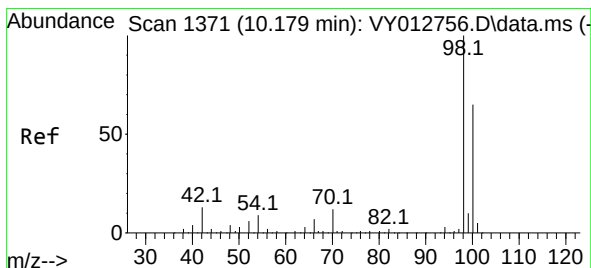
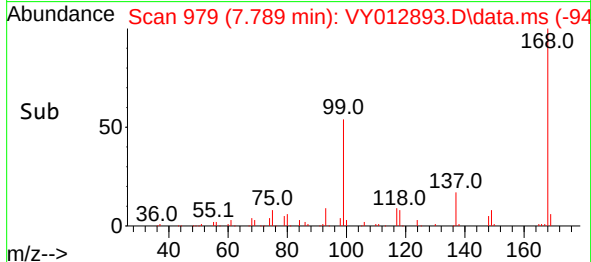
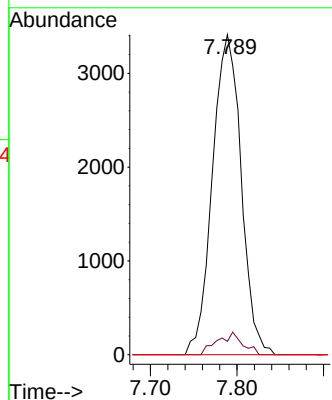
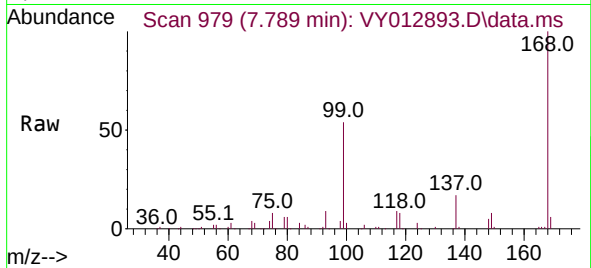




#38
Carbon Tetrachloride
Concen: 5.341 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

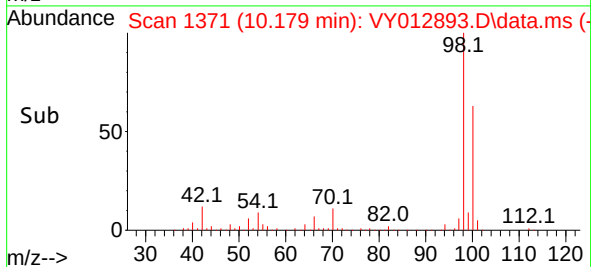
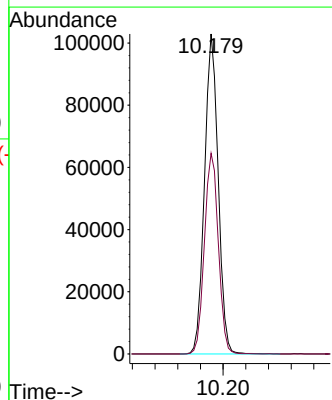
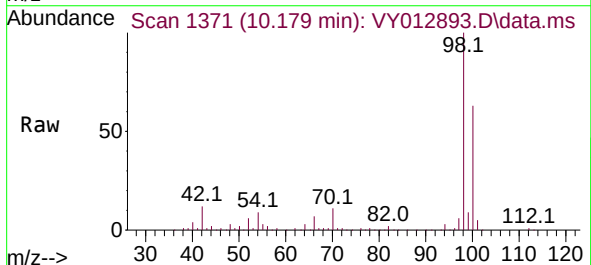
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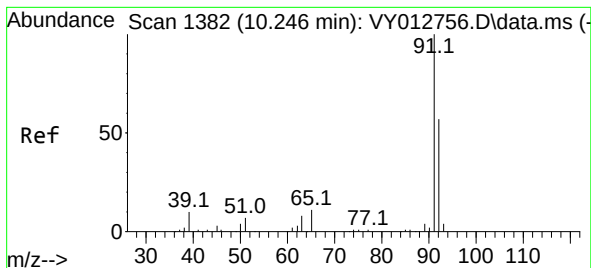
Tgt Ion:117 Resp: 7858
Ion Ratio Lower Upper
117 100
119 4.2 77.2 115.8#
121 0.0 24.7 37.1#



#50
Toluene-d8
Concen: 55.362 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

Tgt Ion: 98 Resp: 172068
Ion Ratio Lower Upper
98 100
100 63.9 50.9 76.3





#52

Toluene

Concen: 1.554 ug/l

RT: 10.240 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

Instrument :

MSVOA_Y

ClientSampleId :

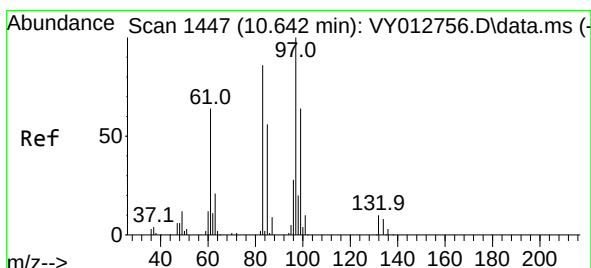
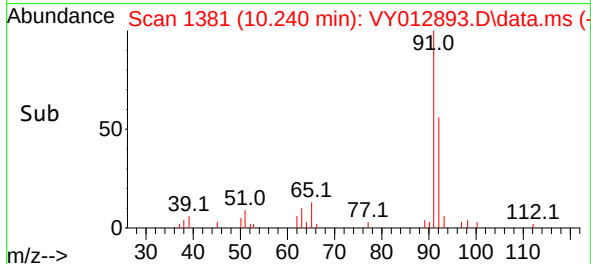
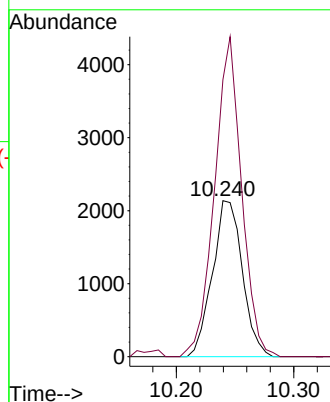
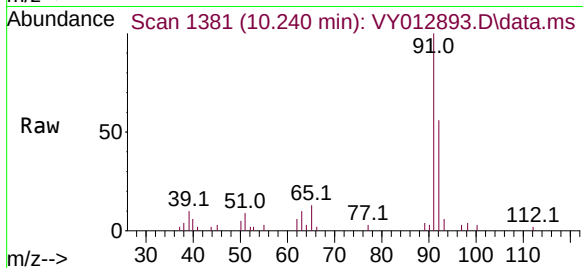
TR-05-030823

Tgt Ion: 92 Resp: 3777

Ion Ratio Lower Upper

92 100

91 185.7 141.3 211.9



#55

1,1,2-Trichloroethane

Concen: 5.747 ug/l

RT: 10.618 min Scan# 1443

Delta R.T. -0.024 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

Tgt Ion: 97 Resp: 4644

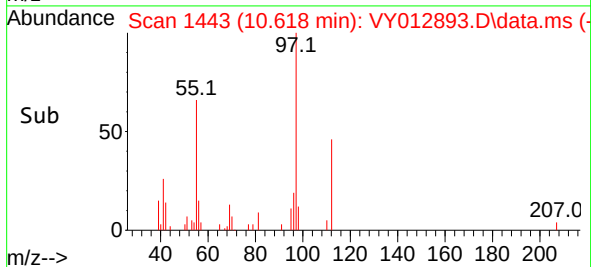
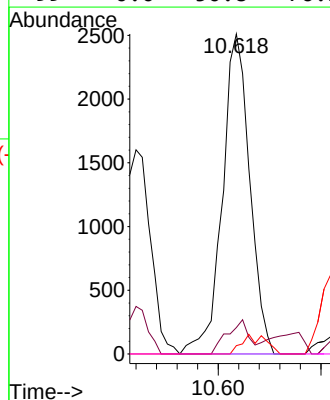
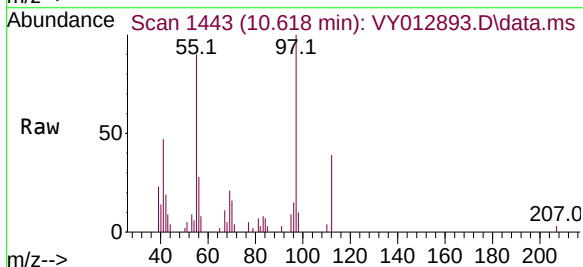
Ion Ratio Lower Upper

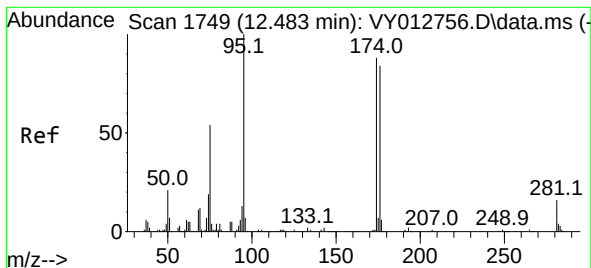
97 100

83 8.3 69.0 103.6#

85 2.6 44.9 67.3#

99 0.0 50.8 76.2#

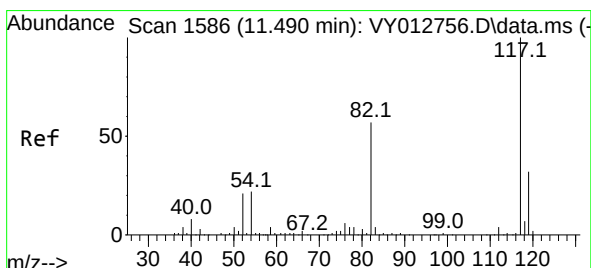
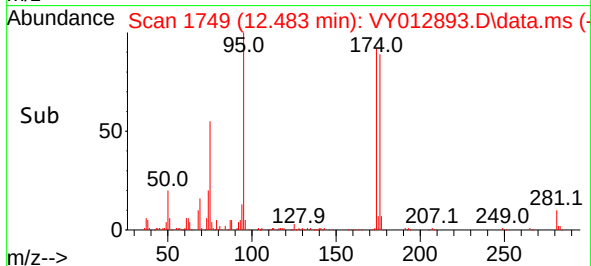
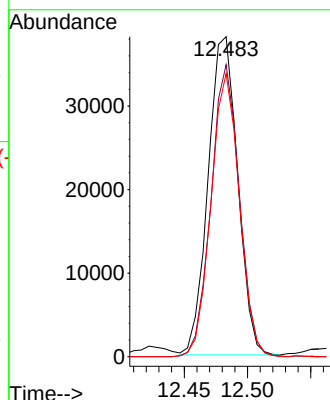
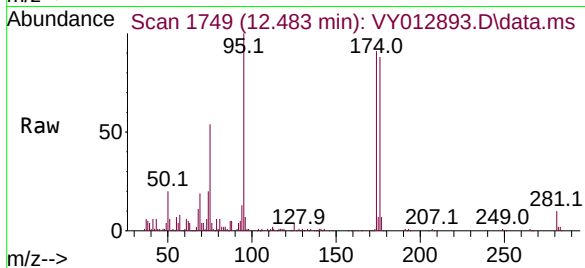




#62
4-Bromofluorobenzene
Concen: 58.920 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

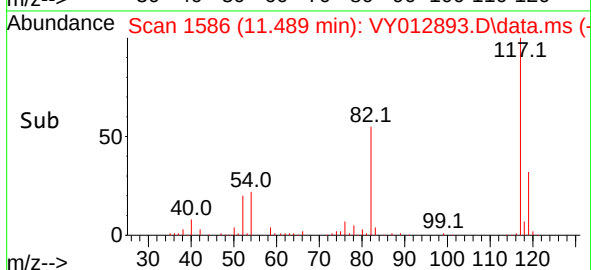
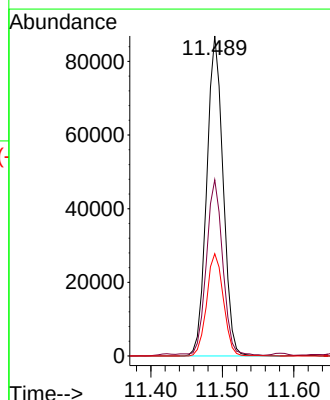
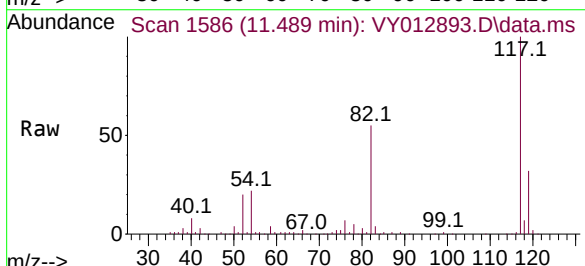
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-030823

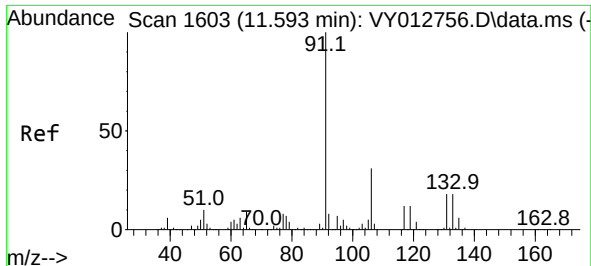
Tgt Ion: 95 Resp: 61809
Ion Ratio Lower Upper
95 100
174 87.9 0.0 176.6
176 85.1 0.0 170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

Tgt Ion: 117 Resp: 138216
Ion Ratio Lower Upper
117 100
82 54.4 45.4 68.0
119 31.9 25.6 38.4





#67

Ethyl Benzene

Concen: 3.882 ug/l

RT: 11.593 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

Instrument :

MSVOA_Y

ClientSampleId :

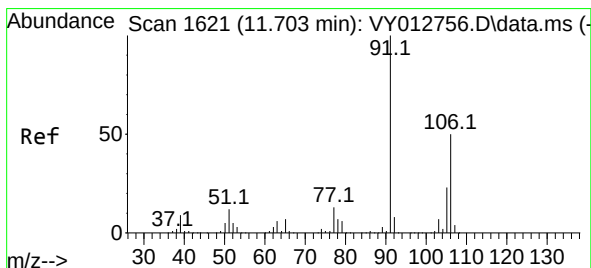
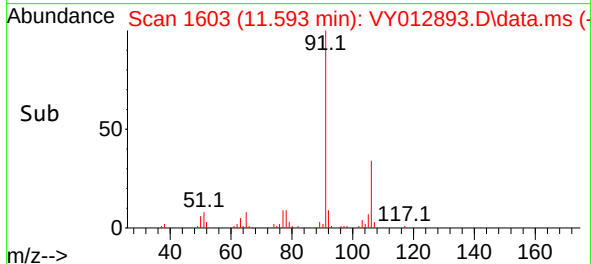
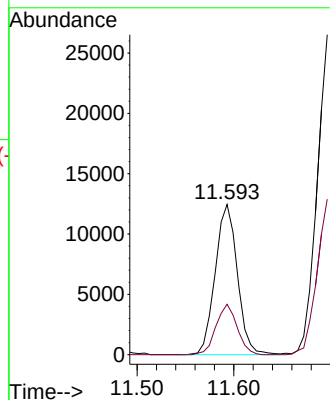
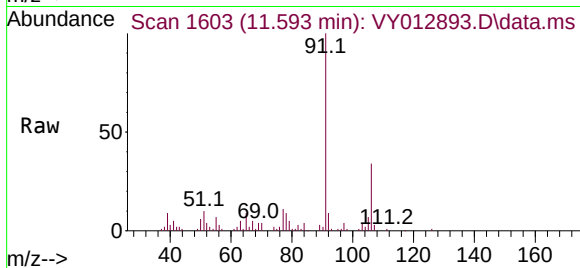
TR-05-030823

Tgt Ion: 91 Resp: 19801

Ion Ratio Lower Upper

91 100

106 33.6 25.1 37.7



#68

m/p-Xylenes

Concen: 12.073 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. -0.006 min

Lab File: VY012893.D

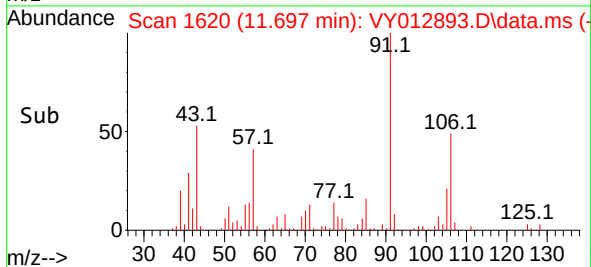
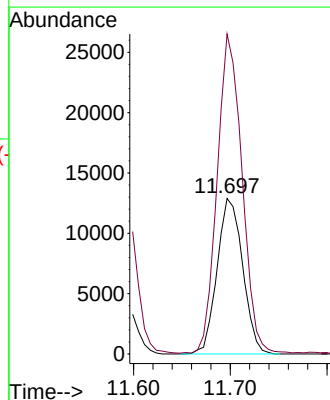
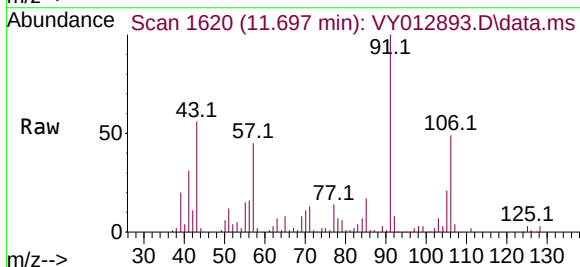
Acq: 09 Mar 2023 12:55

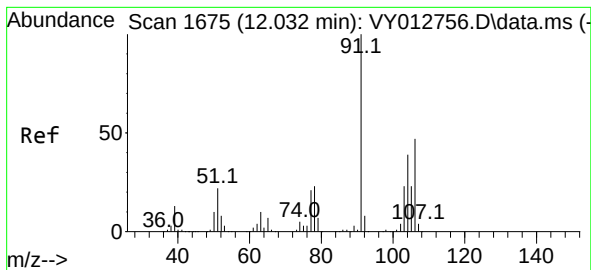
Tgt Ion: 106 Resp: 23687

Ion Ratio Lower Upper

106 100

91 199.5 159.8 239.8





#69

o-Xylene

Concen: 12.863 ug/l

RT: 12.026 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

Instrument :

MSVOA_Y

ClientSampleId :

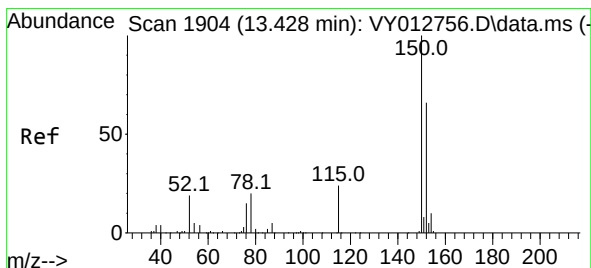
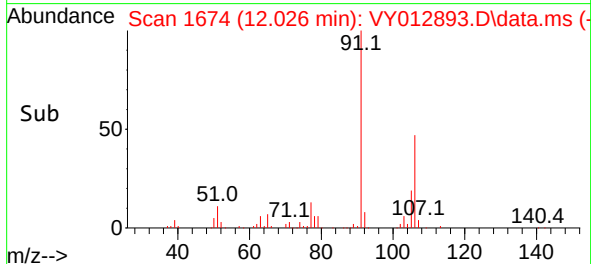
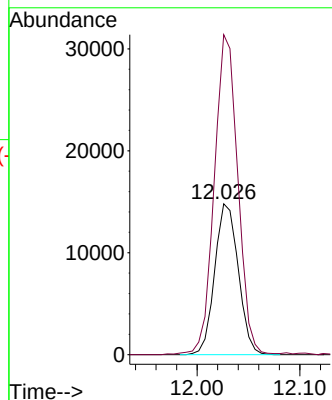
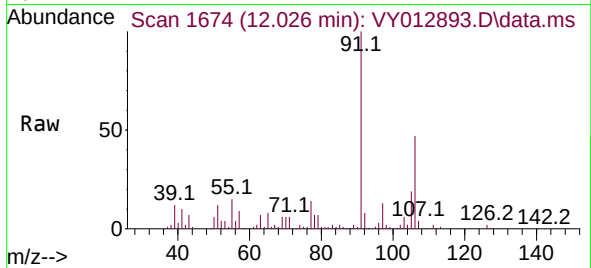
TR-05-030823

Tgt Ion:106 Resp: 23554

Ion Ratio Lower Upper

106 100

91 212.1 107.2 321.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

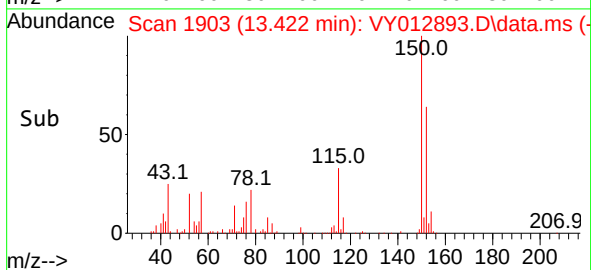
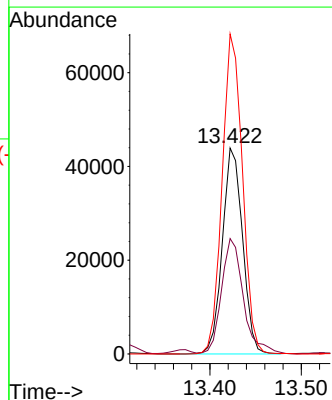
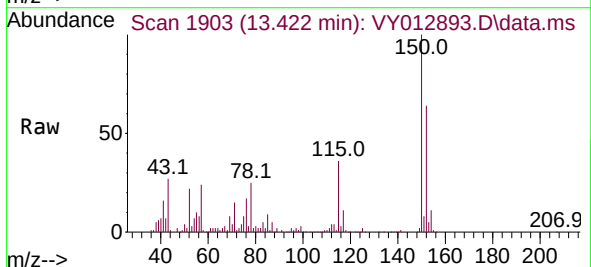
Tgt Ion:152 Resp: 67692

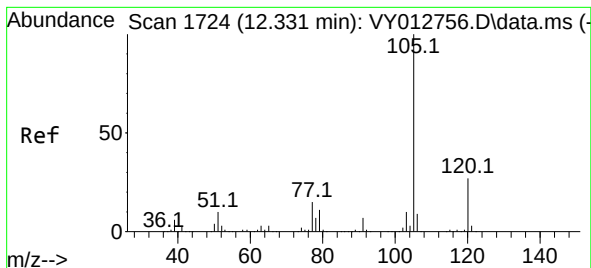
Ion Ratio Lower Upper

152 100

115 60.7 27.1 81.3

150 155.5 0.0 347.8





#73

Isopropylbenzene

Concen: 2.173 ug/l

RT: 12.331 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

Instrument :

MSVOA_Y

ClientSampleId :

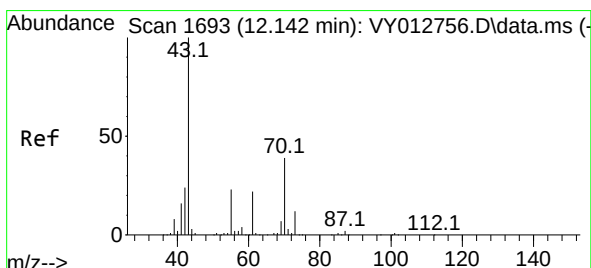
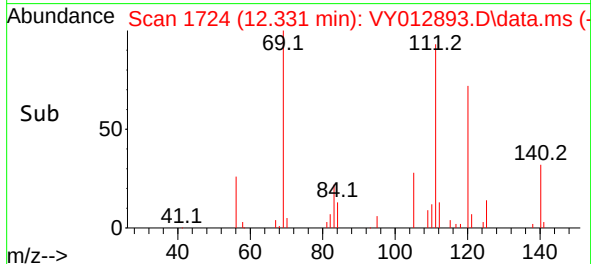
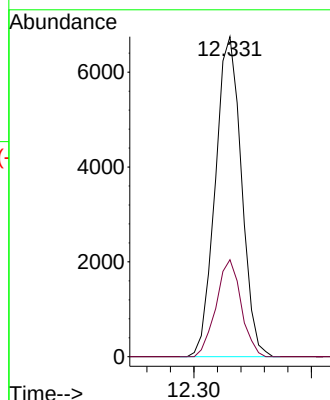
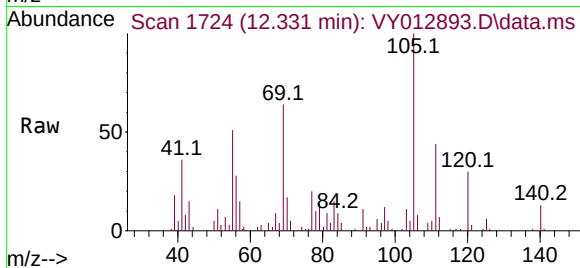
TR-05-030823

Tgt Ion:105 Resp: 10426

Ion Ratio Lower Upper

105 100

120 29.0 13.4 40.2



#74

N-ethyl acetate

Concen: 10.546 ug/l

RT: 12.123 min Scan# 1690

Delta R.T. -0.018 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

Tgt Ion: 43 Resp: 15919

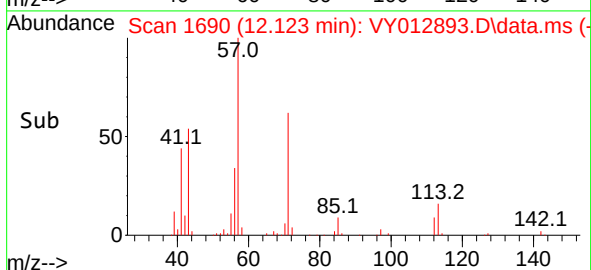
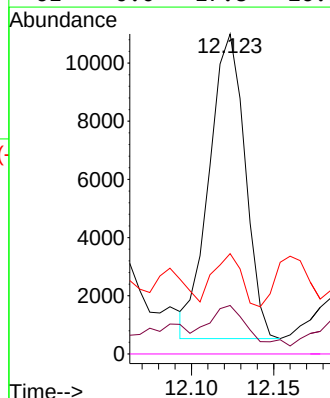
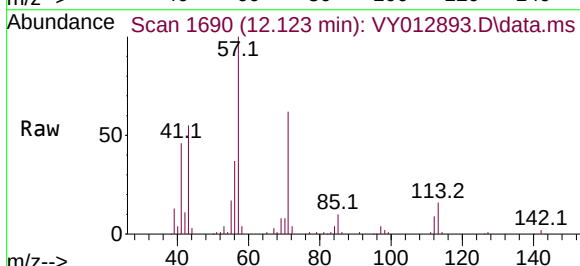
Ion Ratio Lower Upper

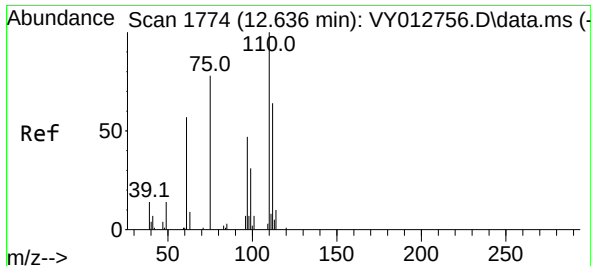
43 100

70 14.2 31.6 47.4#

55 13.3 18.8 28.2#

61 0.0 17.8 26.8#

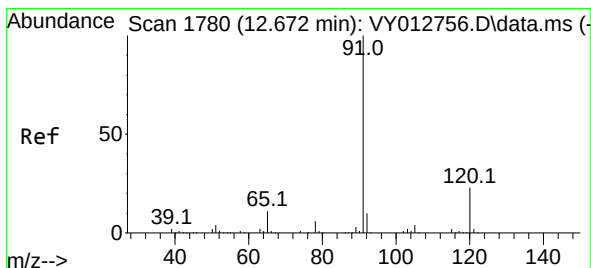
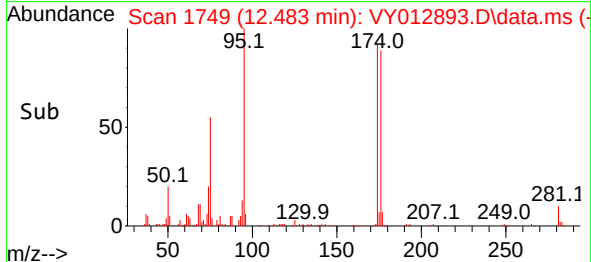
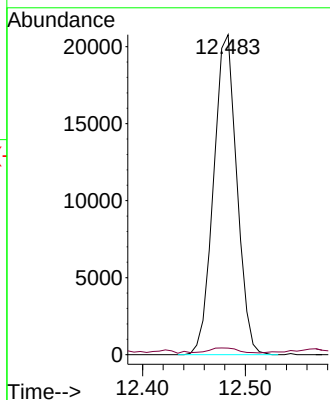
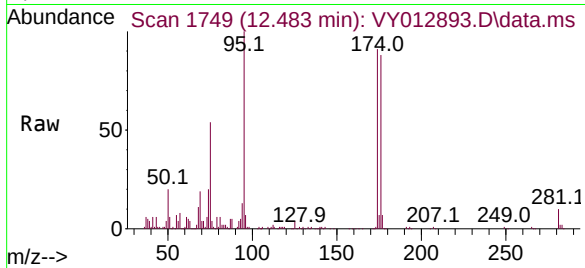




#76
1,2,3-Trichloropropane
Concen: 40.353 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.153 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

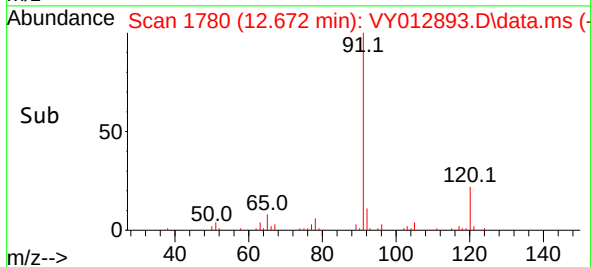
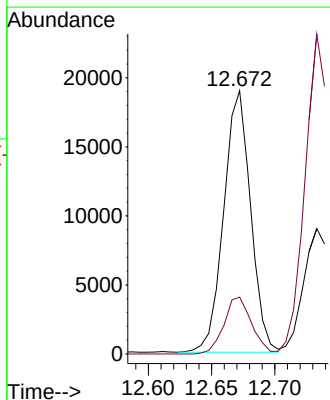
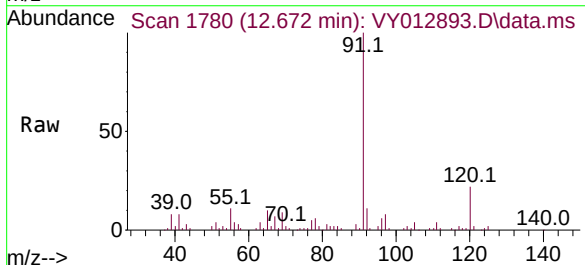
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-030823

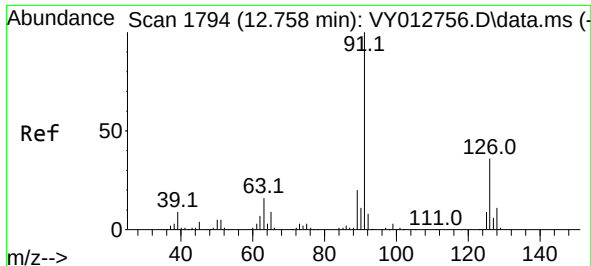
Tgt Ion: 75 Resp: 32619
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#



#78
n-propylbenzene
Concen: 4.735 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. -0.000 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

Tgt Ion: 91 Resp: 28005
Ion Ratio Lower Upper
91 100
120 22.2 11.6 34.8





#79

2-Chlorotoluene

Concen: 4.079 ug/l

RT: 12.733 min Scan# 1

Delta R.T. -0.025 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

Instrument :

MSVOA_Y

ClientSampleId :

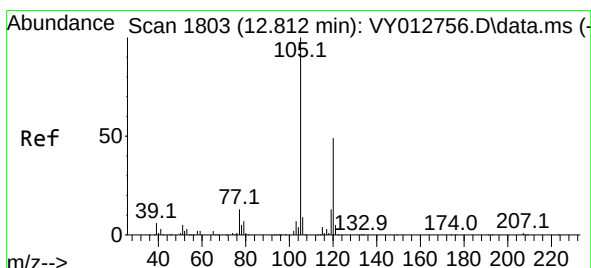
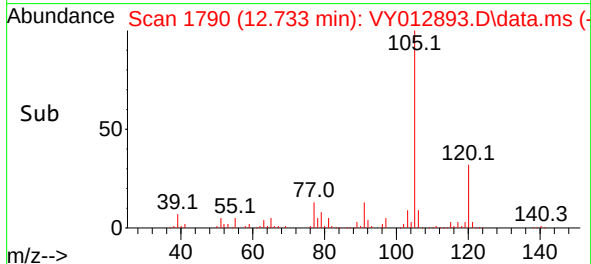
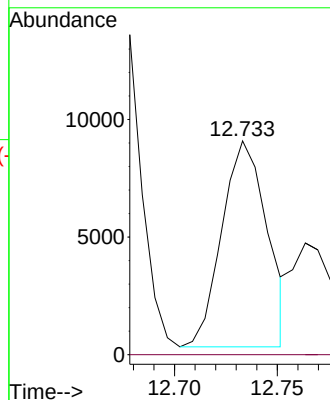
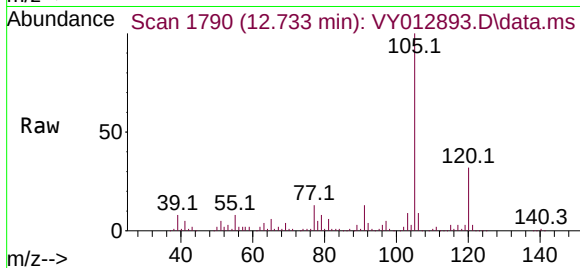
TR-05-030823

Tgt Ion: 91 Resp: 13408

Ion Ratio Lower Upper

91 100

126 0.0 17.4 52.2#



#80

1,3,5-Trimethylbenzene

Concen: 12.208 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. -0.000 min

Lab File: VY012893.D

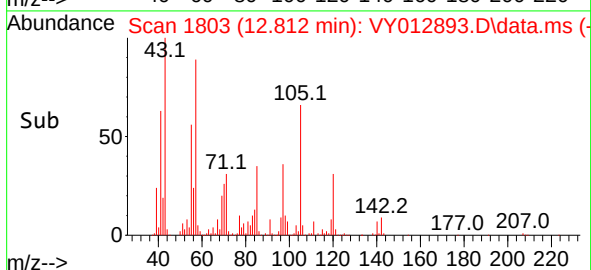
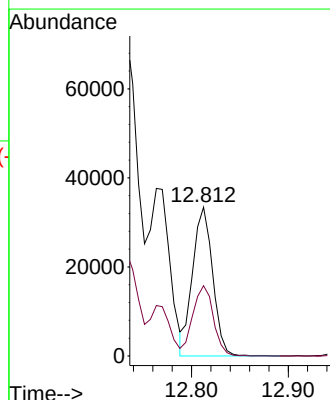
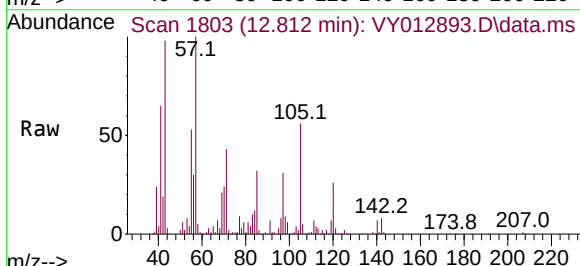
Acq: 09 Mar 2023 12:55

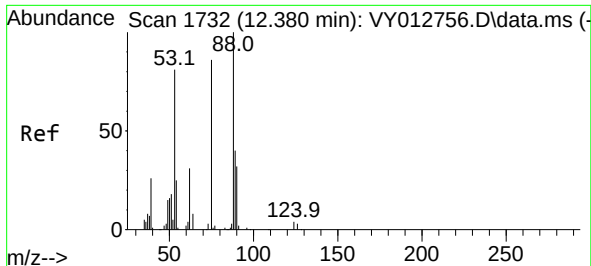
Tgt Ion:105 Resp: 48334

Ion Ratio Lower Upper

105 100

120 48.3 24.8 74.4

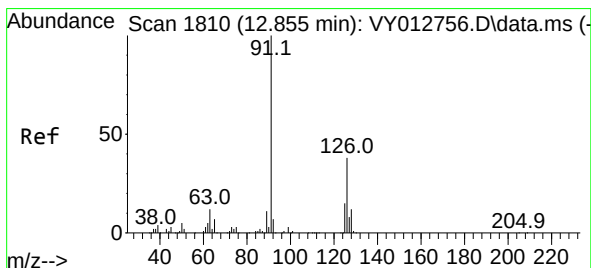
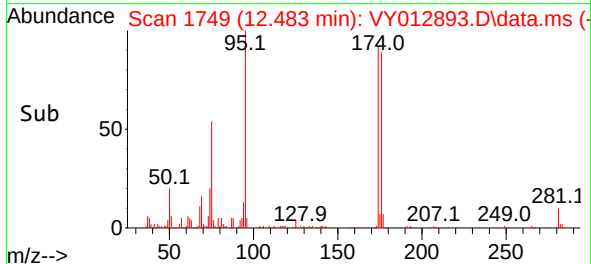
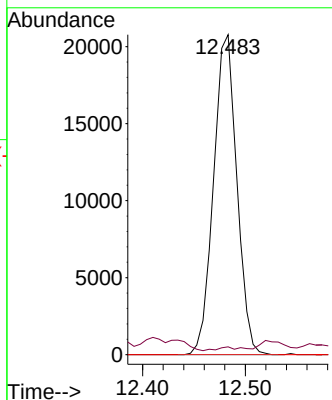
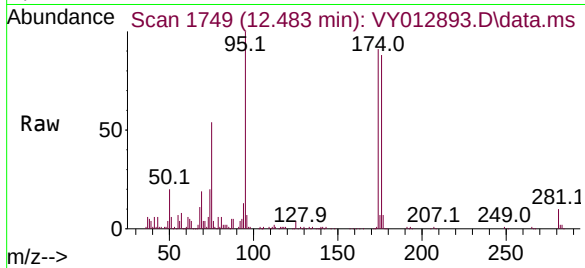




#81
trans-1,4-Dichloro-2-butene
Concen: 83.612 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

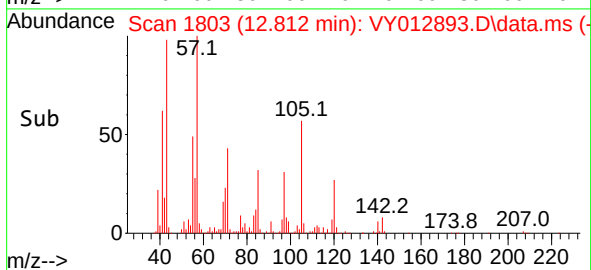
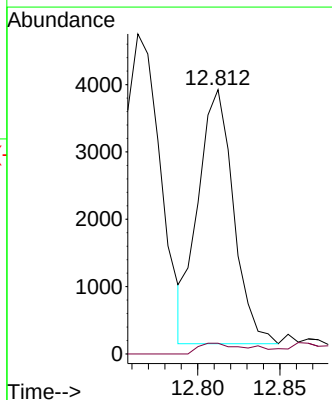
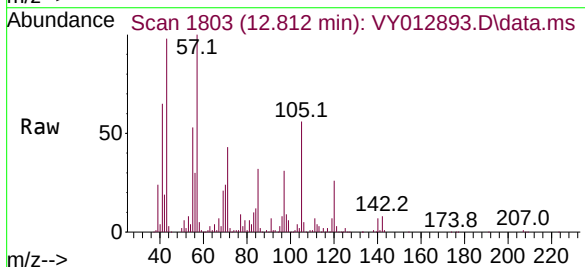
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-030823

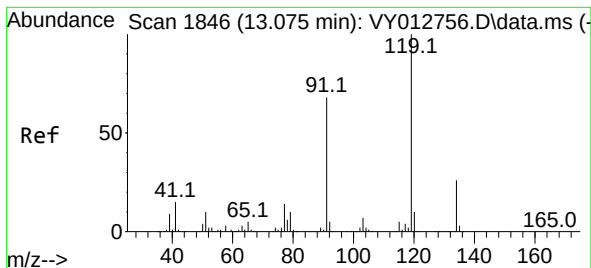
Tgt Ion: 75 Resp: 32619
Ion Ratio Lower Upper
75 100
53 1.1 73.4 110.0#
89 0.0 36.6 55.0#



#82
4-Chlorotoluene
Concen: 1.667 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.043 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

Tgt Ion: 91 Resp: 5674
Ion Ratio Lower Upper
91 100
126 5.9 17.7 53.1#

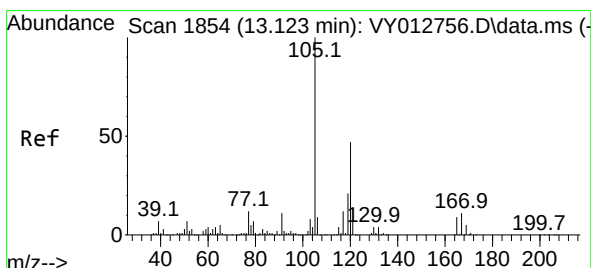
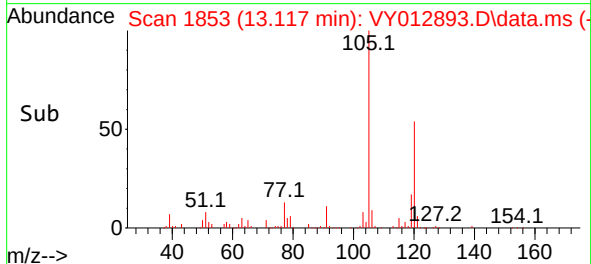
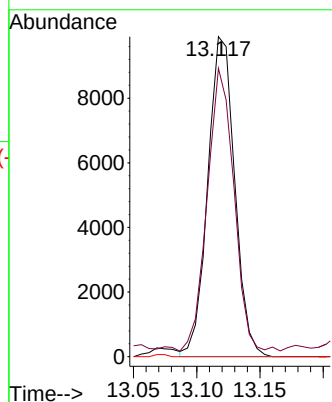
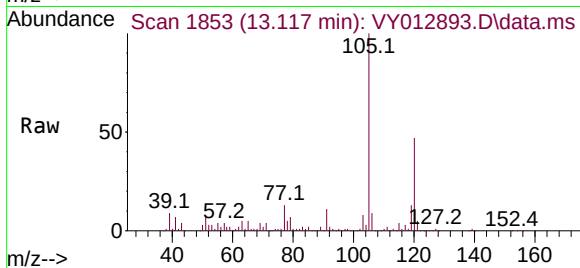




#83
 tert-Butylbenzene
 Concen: 4.294 ug/l
 RT: 13.117 min Scan# 1853
 Delta R.T. 0.043 min
 Lab File: VY012893.D
 Acq: 09 Mar 2023 12:55

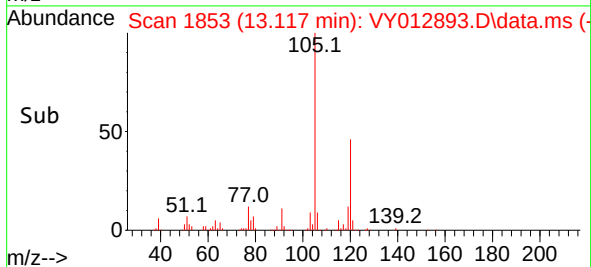
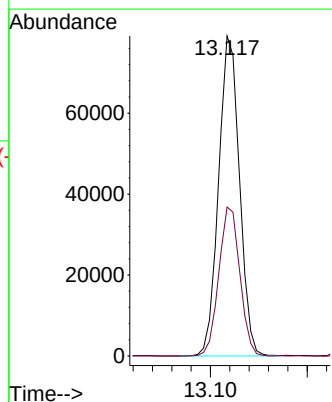
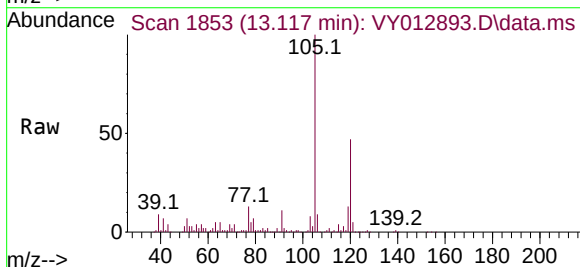
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-05-030823

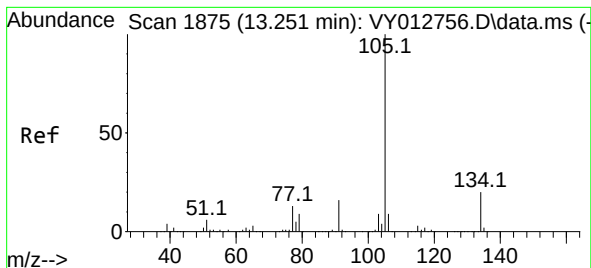
Tgt Ion:	119	Resp:	14674
Ion Ratio	Lower	Upper	
119	100		
91	87.3	32.8	98.3
134	0.0	13.6	40.8



#84
 1,2,4-Trimethylbenzene
 Concen: 30.524 ug/l
 RT: 13.117 min Scan# 1853
 Delta R.T. -0.006 min
 Lab File: VY012893.D
 Acq: 09 Mar 2023 12:55

Tgt Ion:	105	Resp:	118171
Ion Ratio	Lower	Upper	
105	100		
120	46.9	23.0	69.0





#85

sec-Butylbenzene

Concen: 4.675 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

Instrument :

MSVOA_Y

ClientSampleId :

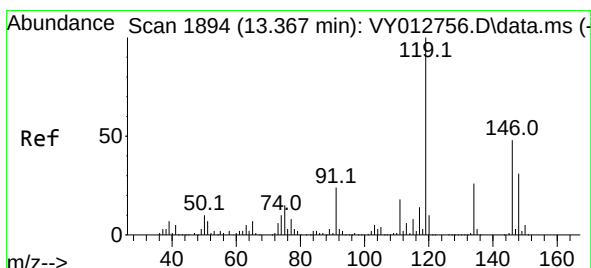
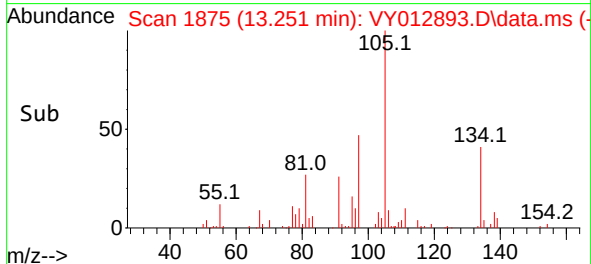
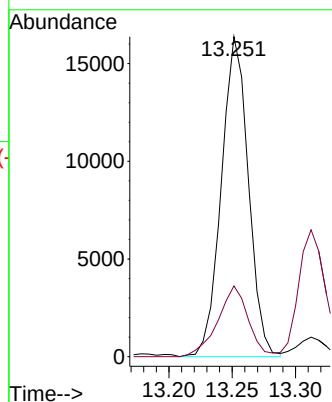
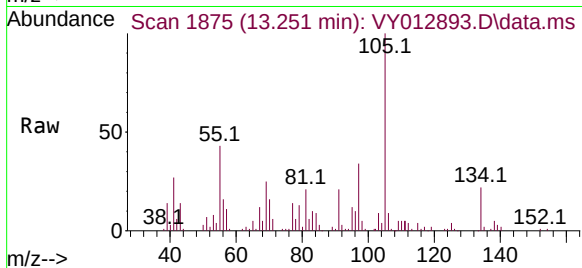
TR-05-030823

Tgt Ion:105 Resp: 24372

Ion Ratio Lower Upper

105 100

134 24.8 10.4 31.1



#86

p-Isopropyltoluene

Concen: 3.704 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. -0.000 min

Lab File: VY012893.D

Acq: 09 Mar 2023 12:55

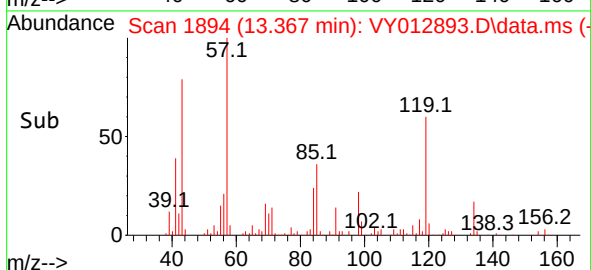
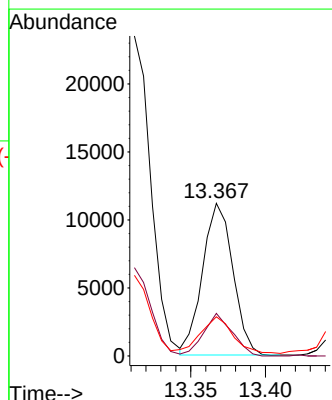
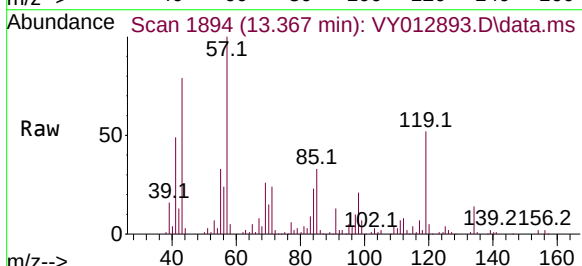
Tgt Ion:119 Resp: 15780

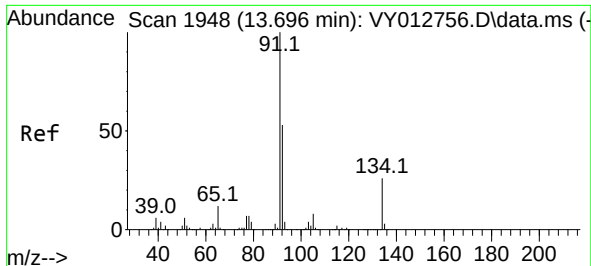
Ion Ratio Lower Upper

119 100

134 26.5 13.2 39.6

91 25.6 11.8 35.3

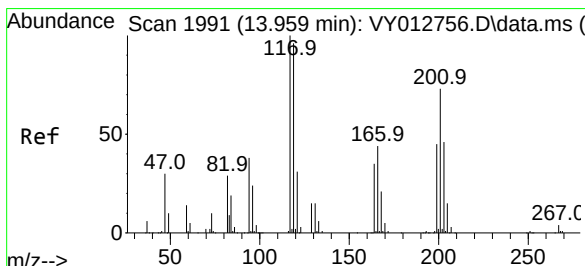
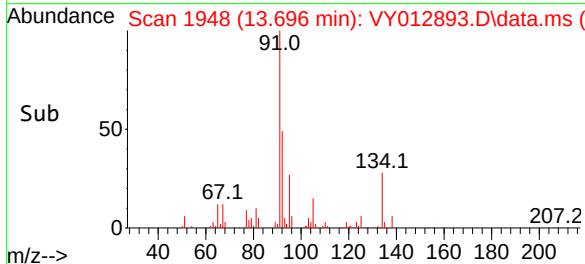
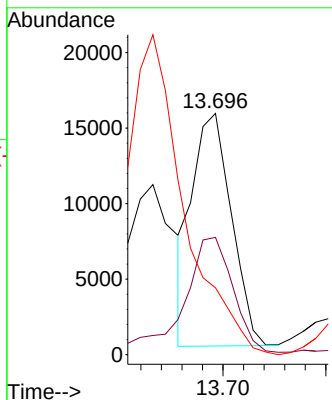
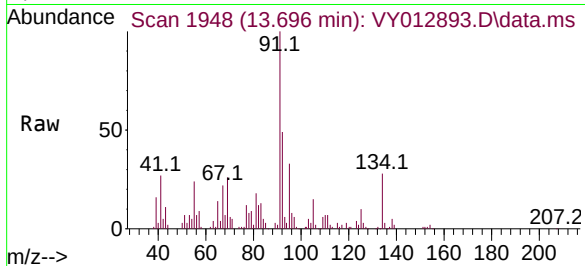




#89
n-Butylbenzene
Concen: 4.996 ug/l
RT: 13.696 min Scan# 1948
Delta R.T. -0.000 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

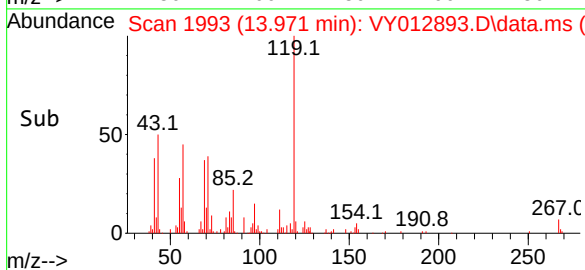
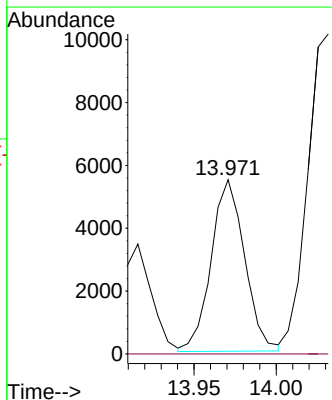
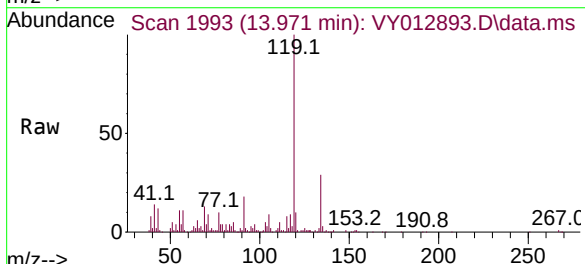
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-030823

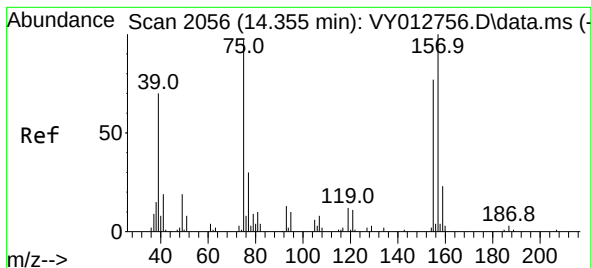
Tgt Ion: 91 Resp: 20379
Ion Ratio Lower Upper
91 100
92 64.4 26.4 79.0
134 0.0 13.0 38.9#



#90
Hexachloroethane
Concen: 8.720 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY012893.D
Acq: 09 Mar 2023 12:55

Tgt Ion: 117 Resp: 7738
Ion Ratio Lower Upper
117 100
201 0.0 39.4 118.1#

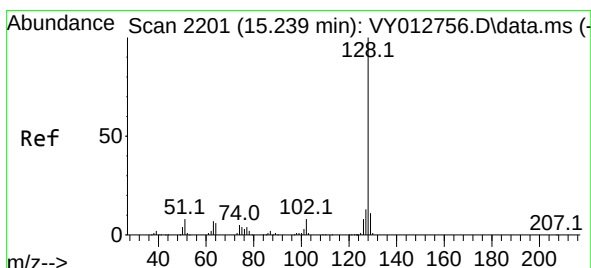
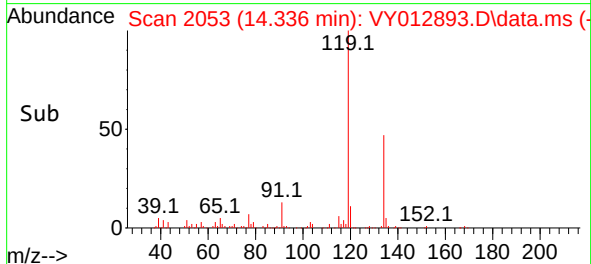
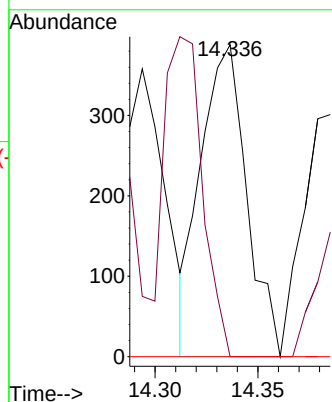
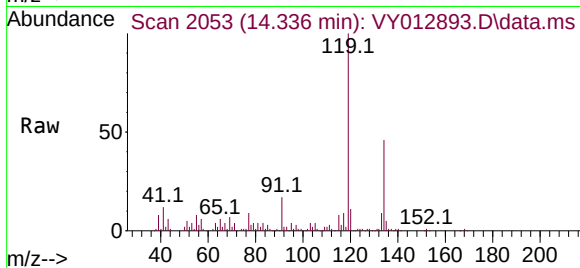




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.448 ug/l
 RT: 14.336 min Scan# 2056
 Delta R.T. -0.018 min
 Lab File: VY012893.D
 Acq: 09 Mar 2023 12:55

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-05-030823

Tgt Ion: 75 Resp: 601
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.8 131.4#
 157 0.0 54.1 162.3#



#95
 Naphthalene
 Concen: 3.100 ug/l
 RT: 15.233 min Scan# 2200
 Delta R.T. -0.006 min
 Lab File: VY012893.D
 Acq: 09 Mar 2023 12:55

Tgt Ion: 128 Resp: 7772
 Ion Ratio Lower Upper
 128 100
 127 22.8 10.3 15.5#
 129 6.7 8.6 13.0#

