

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121422\
 Data File : VY011837.D
 Acq On : 14 Dec 2022 12:10
 Operator : KP/MD
 Sample : N6046-01
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-01-121322

Quant Time: Dec 15 01:18:23 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120922S.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 10 04:19:59 2022
 Response via : Initial Calibration

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

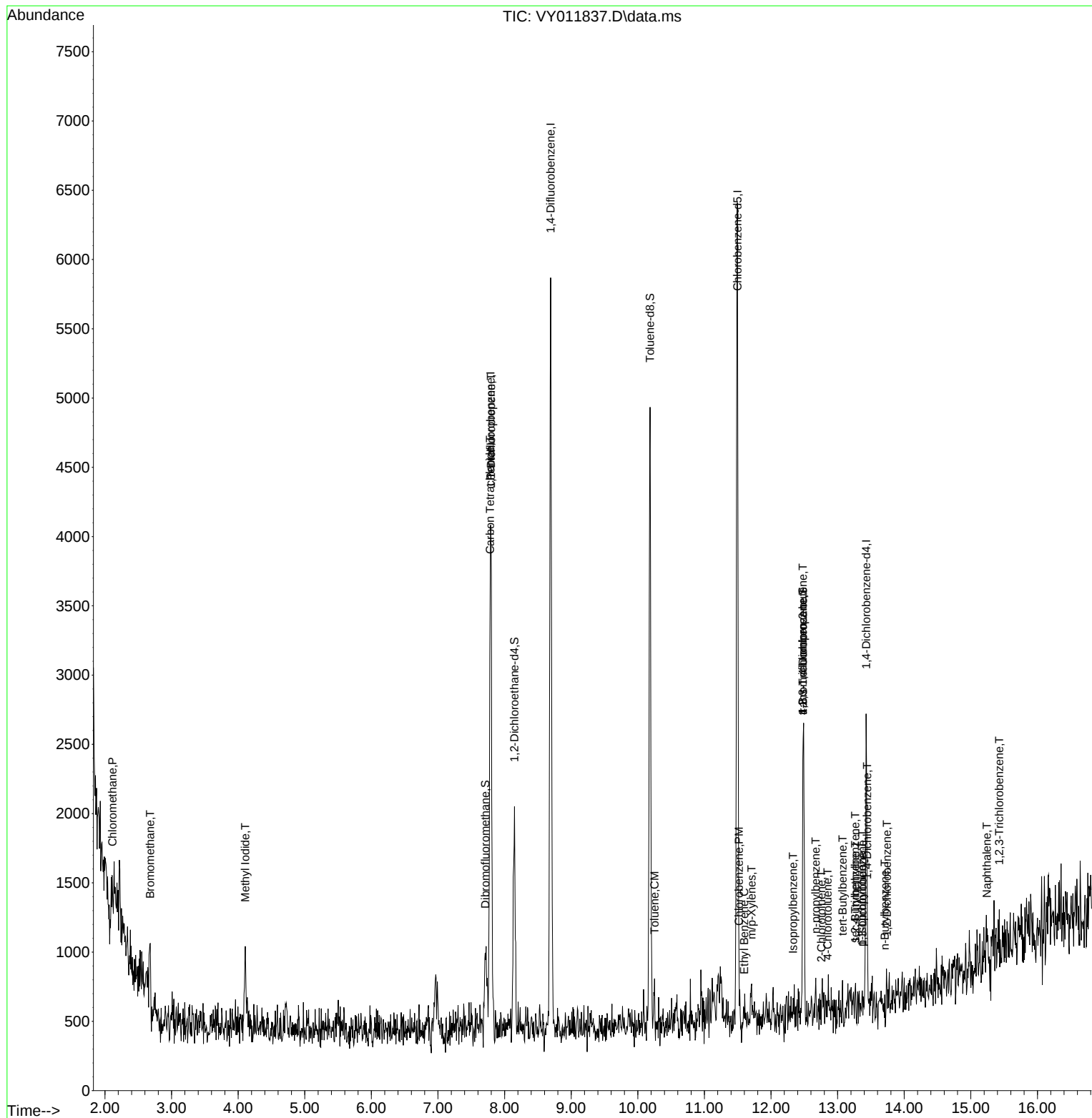
Internal Standards						
1) Pentafluorobenzene	7.789	168	3533	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	5206	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	3867	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	685	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	1255	52.274	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 104.540%	
35) Dibromofluoromethane	7.710	113	668	27.099	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 54.200%	
50) Toluene-d8	10.185	98	3306	42.615	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 85.220%	
62) 4-Bromofluorobenzene	12.477	95	833	25.346	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 50.700%	
Target Compounds						
						Qvalue
3) Chloromethane	2.113	50	137	3.342	ug/l #	41
5) Bromomethane	2.680	94	157	6.743	ug/l #	20
10) Methyl Iodide	4.107	142	774	22.802	ug/l #	89
20) Methylene Chloride	4.716	84	196	Below Cal	#	46
36) 1,1-Dichloropropene	7.795	75	115	2.911	ug/l #	41
38) Carbon Tetrachloride	7.783	117	305	6.573	ug/l #	14
52) Toluene	10.252	92	100	1.333	ug/l	95
65) Chlorobenzene	11.520	112	115	1.650	ug/l #	43
67) Ethyl Benzene	11.599	91	142	1.157	ug/l #	43
68) m/p-Xylenes	11.709	106	64	1.361	ug/l #	29
73) Isopropylbenzene	12.331	105	94	2.118	ug/l #	49
76) 1,2,3-Trichloropropane	12.477	75	497	71.713	ug/l #	100
78) n-propylbenzene	12.672	91	155	2.914	ug/l #	52
79) 2-Chlorotoluene	12.757	91	165	5.436	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.477	75	497	162.731	ug/l #	13
82) 4-Chlorotoluene	12.849	91	147	4.669	ug/l #	41
83) tert-Butylbenzene	13.074	119	59	1.806	ug/l #	68
84) 1,2,4-Trimethylbenzene	13.263	105	70	1.895	ug/l #	31
85) sec-Butylbenzene	13.263	105	70	1.439	ug/l #	56
86) p-Isopropyltoluene	13.367	119	66	1.630	ug/l #	50
87) 1,3-Dichlorobenzene	13.373	146	132	6.330	ug/l #	25
88) 1,4-Dichlorobenzene	13.446	146	146	7.044	ug/l #	25
89) n-Butylbenzene	13.708	91	52	1.413	ug/l #	33
91) 1,2-Dichlorobenzene	13.739	146	57	3.037	ug/l #	25
95) Naphthalene	15.239	128	176	8.303	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.428	180	55	5.818	ug/l #	37

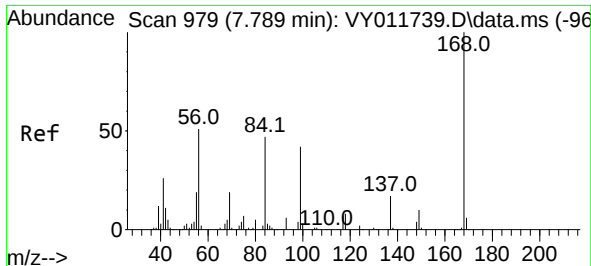
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Dec 10 04:19:59 2022
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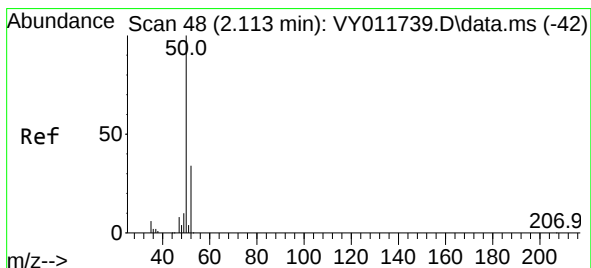
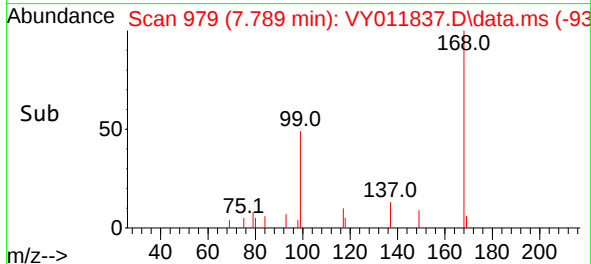
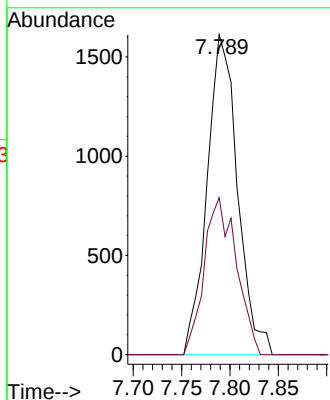
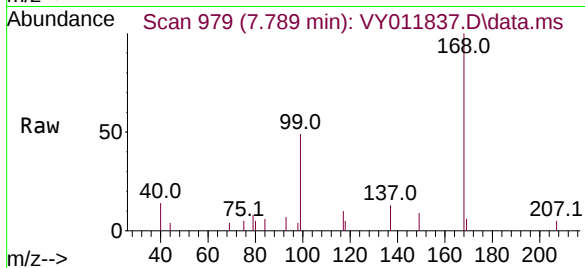




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

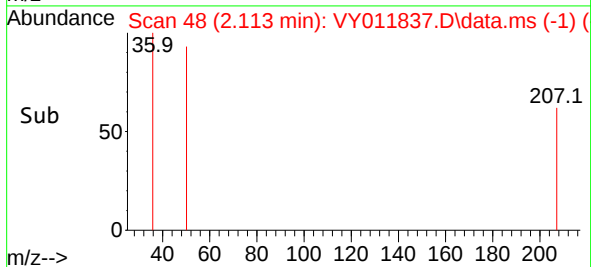
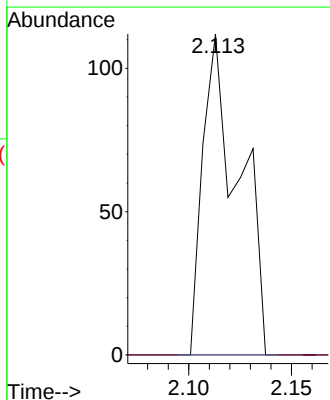
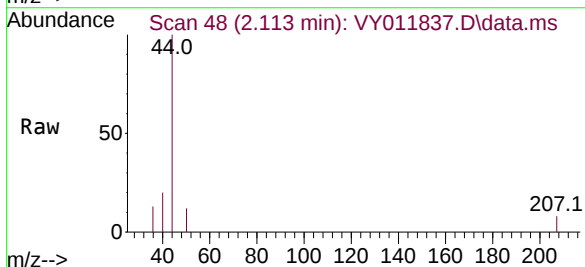
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-121322

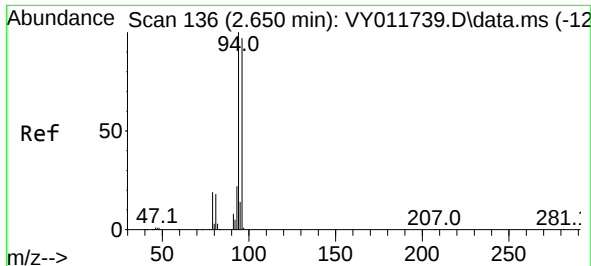
Tgt Ion:168 Resp: 3533
Ion Ratio Lower Upper
168 100
99 49.1 44.0 66.0



#3
Chloromethane
Concen: 3.342 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.000 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

Tgt Ion: 50 Resp: 137
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

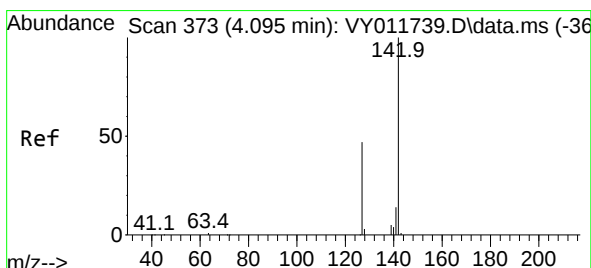
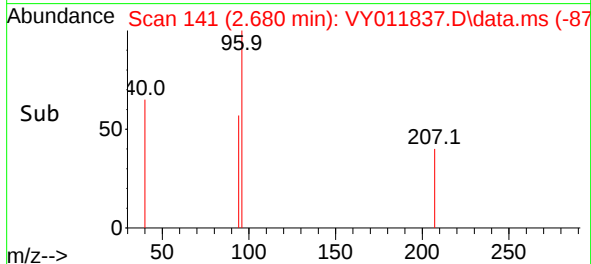
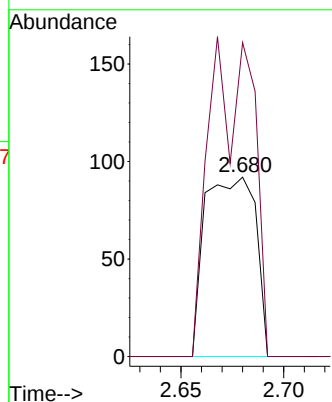
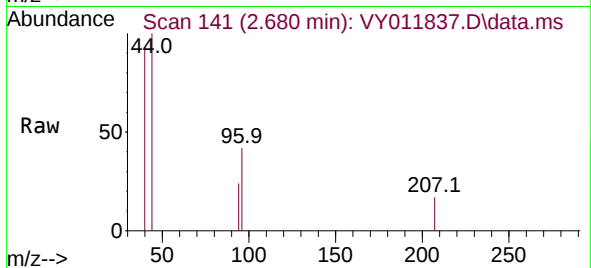




#5
Bromomethane
Concen: 6.743 ug/l
RT: 2.680 min Scan# 141
Delta R.T. 0.030 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

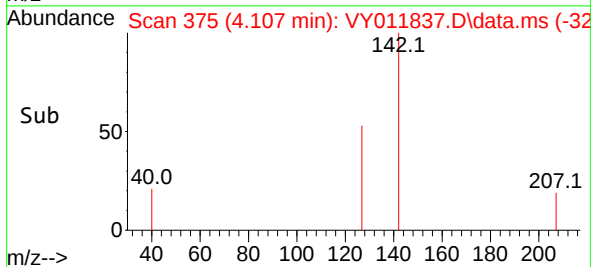
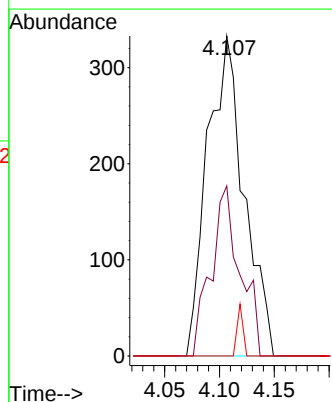
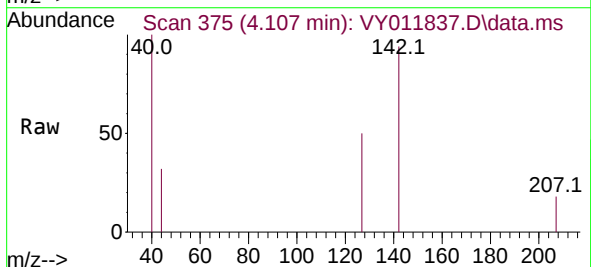
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-121322

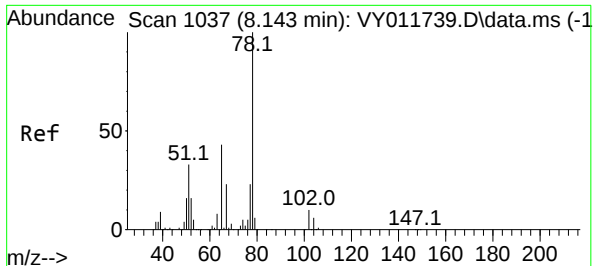
Tgt Ion: 94 Resp: 157
Ion Ratio Lower Upper
94 100
96 175.0 77.4 116.2#



#10
Methyl Iodide
Concen: 22.802 ug/l
RT: 4.107 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

Tgt Ion: 142 Resp: 774
Ion Ratio Lower Upper
142 100
127 42.1 37.0 55.4
141 2.6 11.4 17.0#





#33

1,2-Dichloroethane-d4

Concen: 52.274 ug/l

RT: 8.149 min Scan# 1037

Delta R.T. 0.006 min

Lab File: VY011837.D

Acq: 14 Dec 2022 12:10

Instrument :

MSVOA_Y

ClientSampleId :

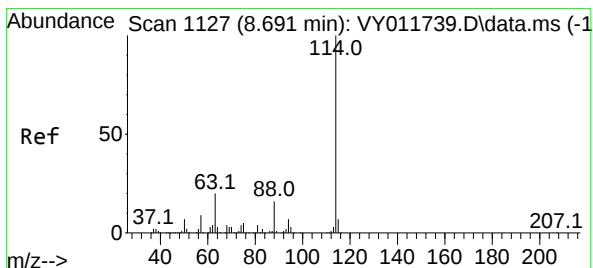
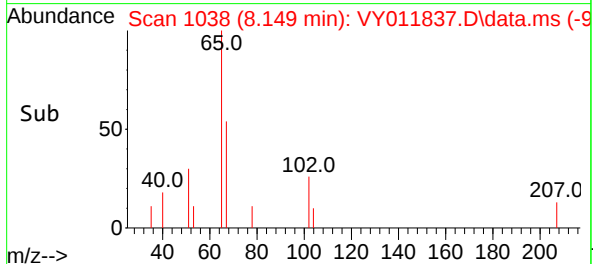
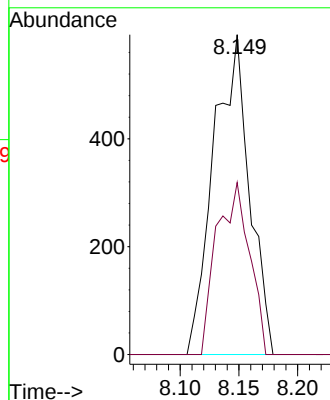
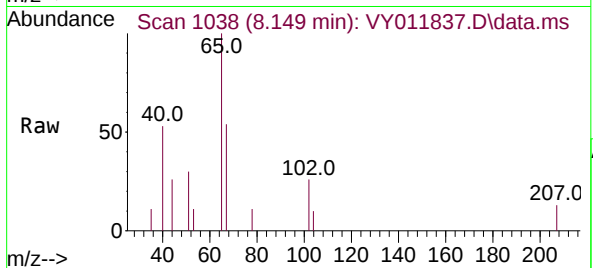
HR-01-121322

Tgt Ion: 65 Resp: 1255

Ion Ratio Lower Upper

65 100

67 49.2 0.0 103.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY011837.D

Acq: 14 Dec 2022 12:10

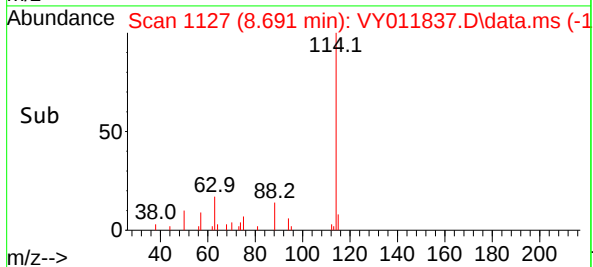
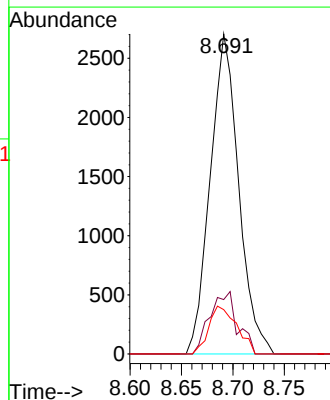
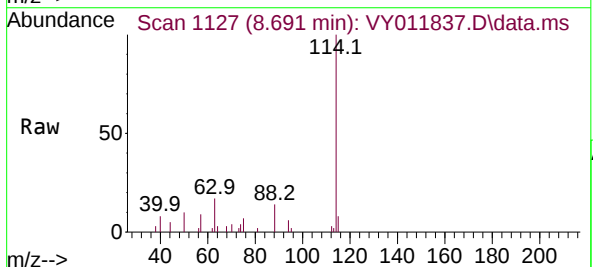
Tgt Ion: 114 Resp: 5206

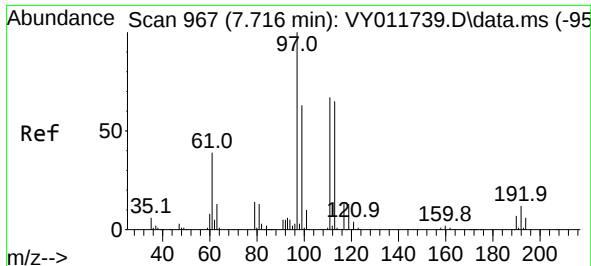
Ion Ratio Lower Upper

114 100

63 17.0 0.0 39.6

88 13.9 0.0 32.2

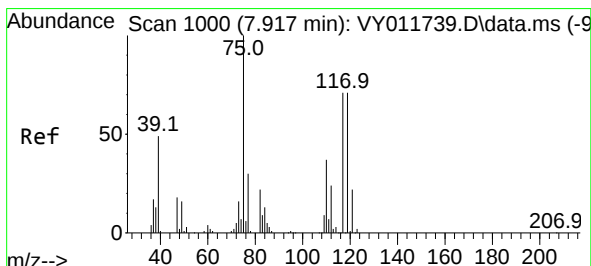
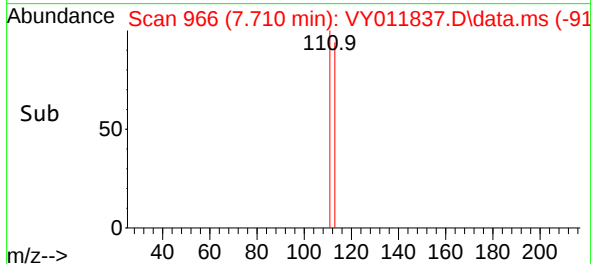
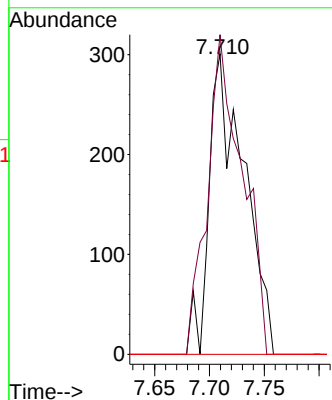
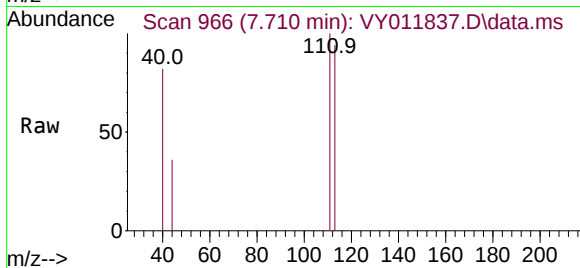




#35
 Dibromofluoromethane
 Concen: 27.099 ug/l
 RT: 7.710 min Scan# 91
 Delta R.T. -0.006 min
 Lab File: VY011837.D
 Acq: 14 Dec 2022 12:10

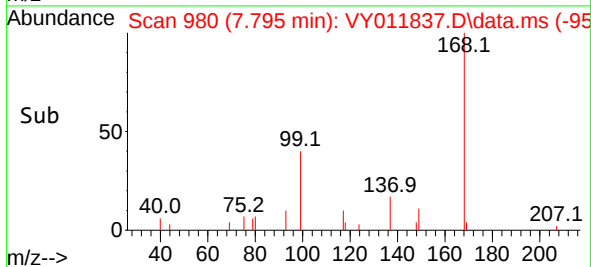
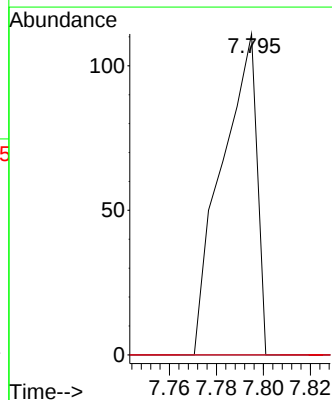
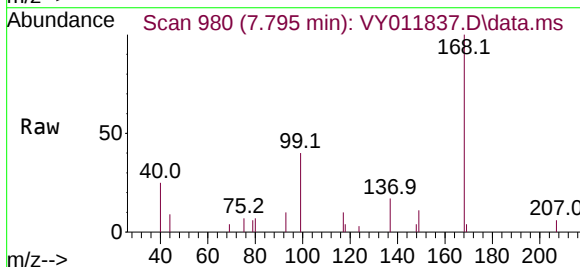
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-01-121322

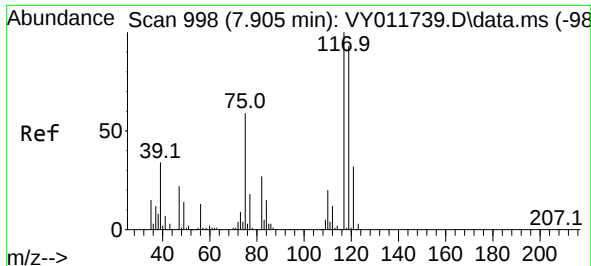
Tgt Ion:113 Resp: 668
 Ion Ratio Lower Upper
 113 100
 111 106.4 83.0 124.4
 192 0.0 16.0 24.0#



#36
 1,1-Dichloropropene
 Concen: 2.911 ug/l
 RT: 7.795 min Scan# 980
 Delta R.T. -0.122 min
 Lab File: VY011837.D
 Acq: 14 Dec 2022 12:10

Tgt Ion: 75 Resp: 115
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.1 54.1#
 77 0.0 25.1 37.7#

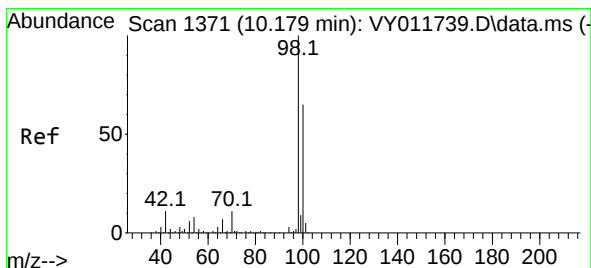
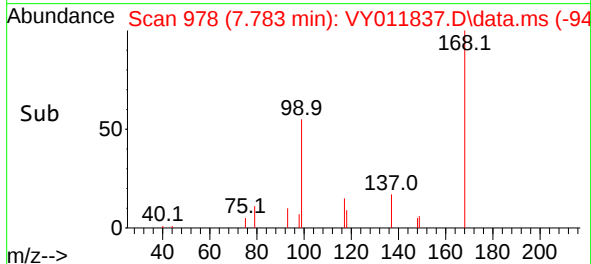
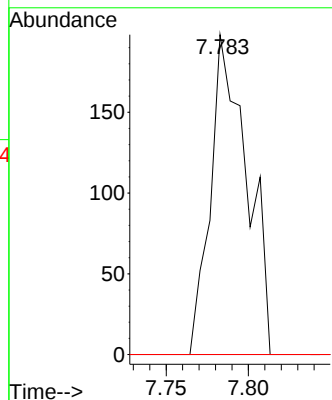
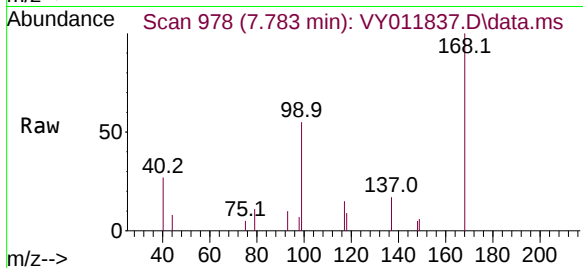




#38
Carbon Tetrachloride
Concen: 6.573 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

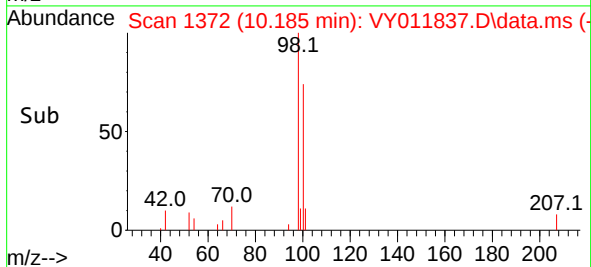
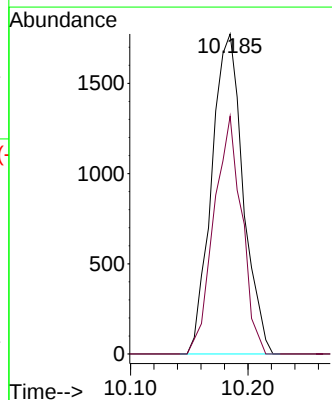
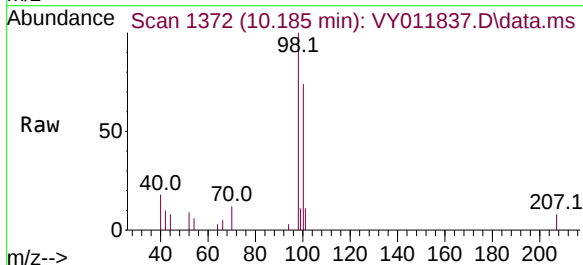
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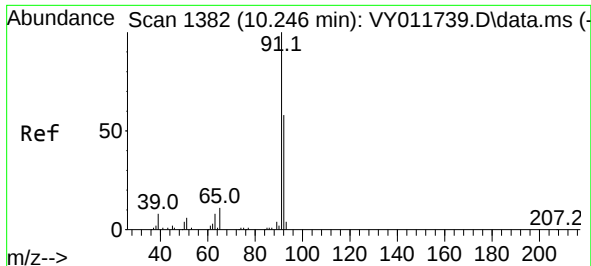
Tgt Ion: 117 Resp: 305
Ion Ratio Lower Upper
117 100
119 0.0 73.8 110.8#
121 0.0 25.2 37.8#



#50
Toluene-d8
Concen: 42.615 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.006 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

Tgt Ion: 98 Resp: 3306
Ion Ratio Lower Upper
98 100
100 65.9 51.9 77.9

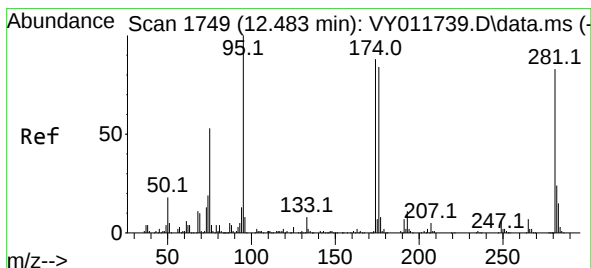
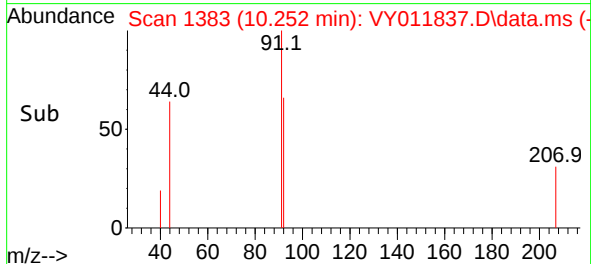
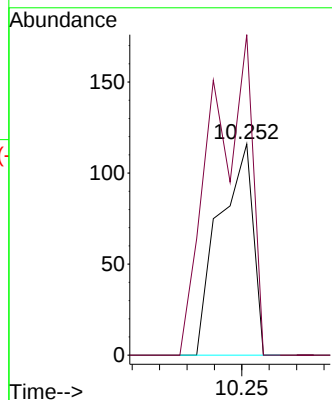
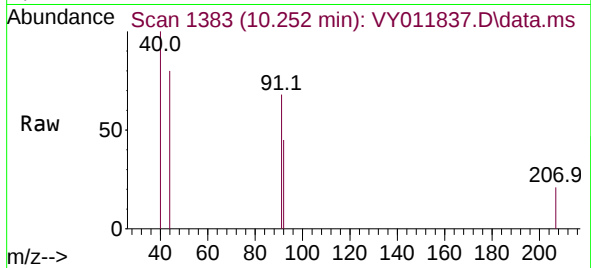




#52
Toluene
Concen: 1.333 ug/l
RT: 10.252 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

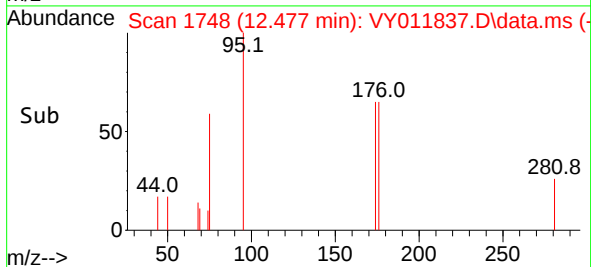
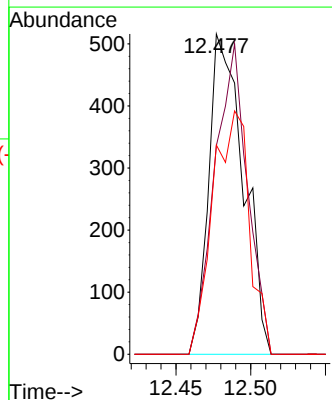
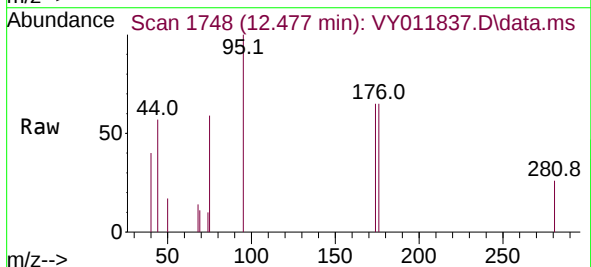
Instrument :
MSVOA_Y
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HR-01-121322

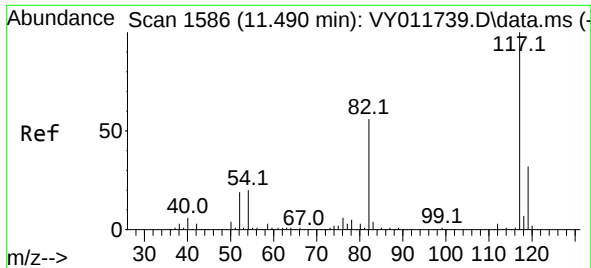
Tgt Ion: 92 Resp: 100
Ion Ratio Lower Upper
92 100
91 178.0 137.4 206.0



#62
4-Bromofluorobenzene
Concen: 25.346 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

Tgt Ion: 95 Resp: 833
Ion Ratio Lower Upper
95 100
174 91.6 0.0 172.0
176 80.2 0.0 167.6

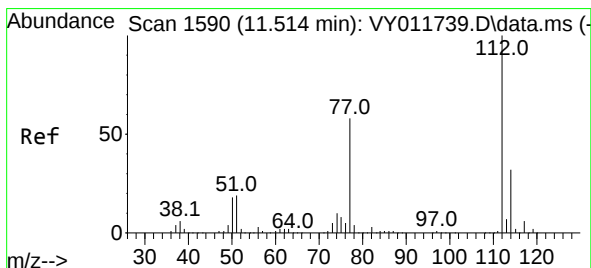
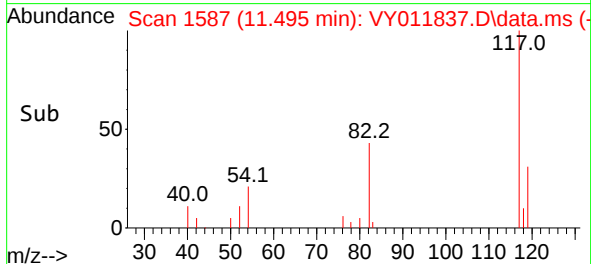
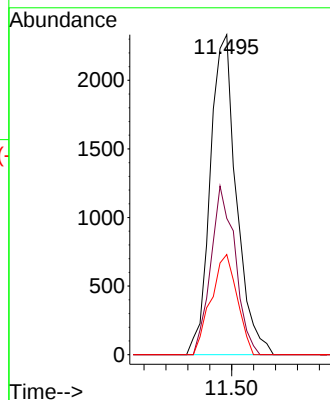
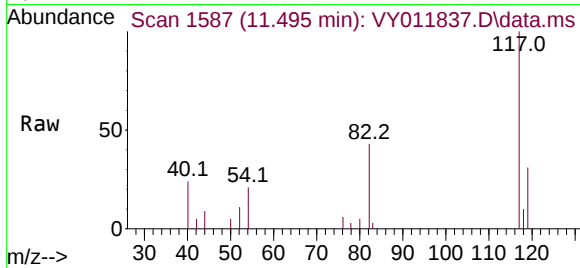




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

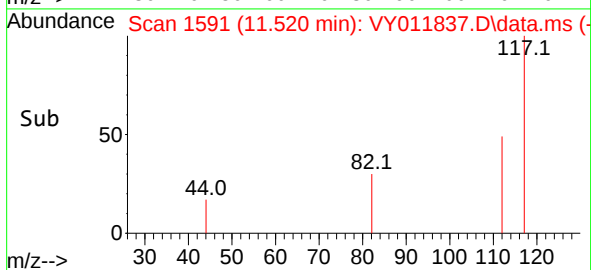
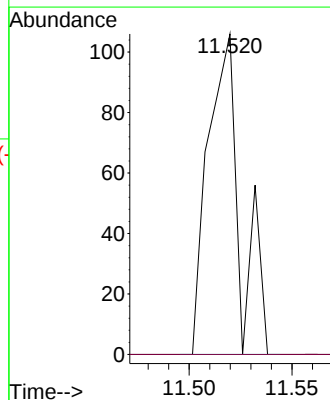
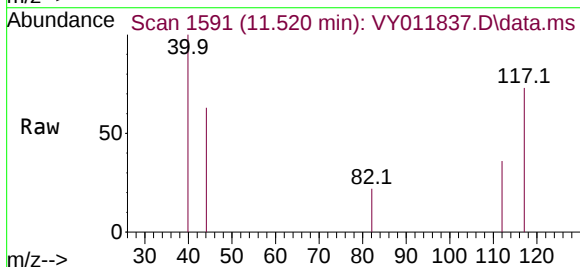
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-121322

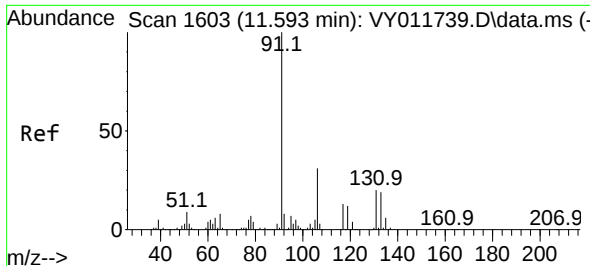
Tgt Ion:117 Resp: 3867
Ion Ratio Lower Upper
117 100
82 42.6 44.8 67.2#
119 31.3 25.4 38.2



#65
Chlorobenzene
Concen: 1.650 ug/l
RT: 11.520 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

Tgt Ion:112 Resp: 115
Ion Ratio Lower Upper
112 100
114 0.0 25.3 37.9#





#67

Ethyl Benzene

Concen: 1.157 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. 0.006 min

Lab File: VY011837.D

Acq: 14 Dec 2022 12:10

Instrument :

MSVOA_Y

ClientSampleId :

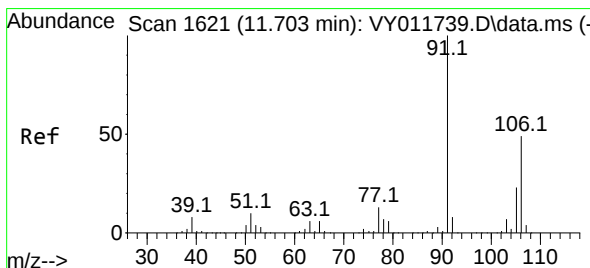
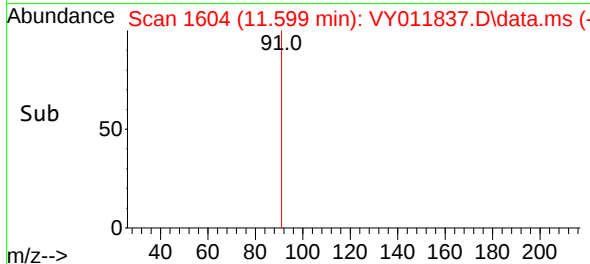
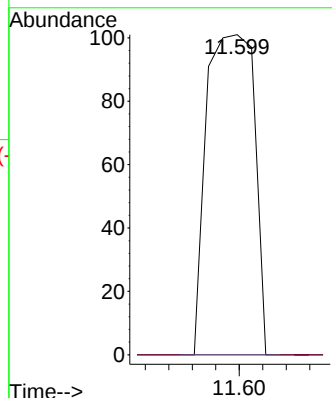
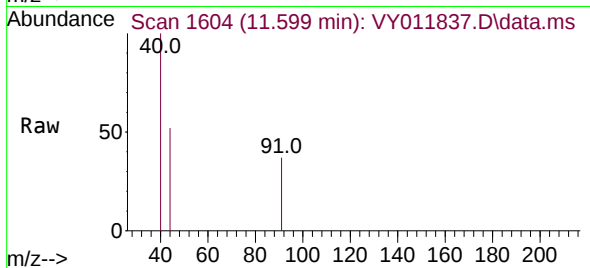
HR-01-121322

Tgt Ion: 91 Resp: 142

Ion Ratio Lower Upper

91 100

106 0.0 25.0 37.4#



#68

m/p-Xylenes

Concen: 1.361 ug/l

RT: 11.709 min Scan# 1622

Delta R.T. 0.006 min

Lab File: VY011837.D

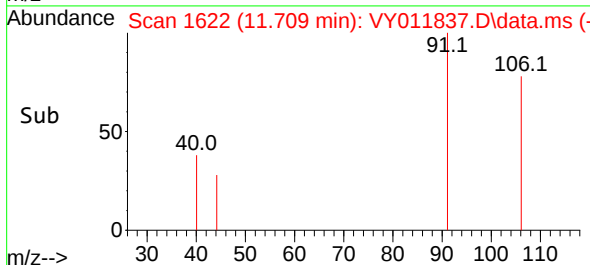
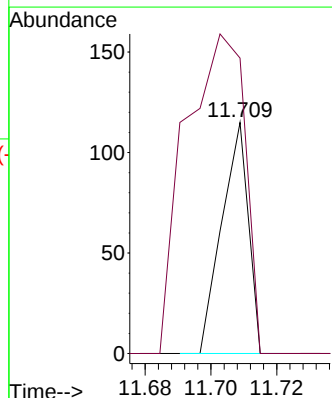
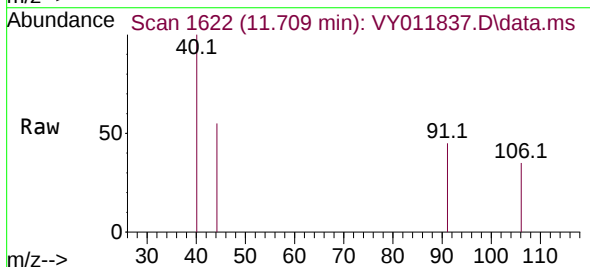
Acq: 14 Dec 2022 12:10

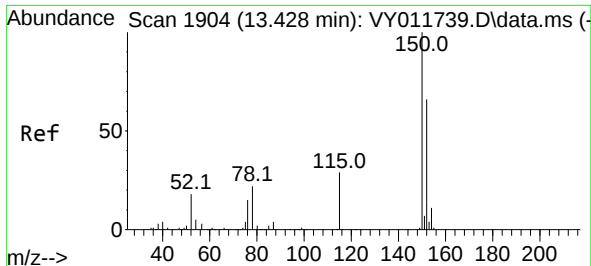
Tgt Ion:106 Resp: 64

Ion Ratio Lower Upper

106 100

91 310.9 162.5 243.7#

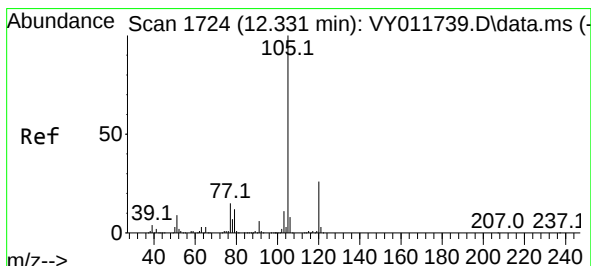
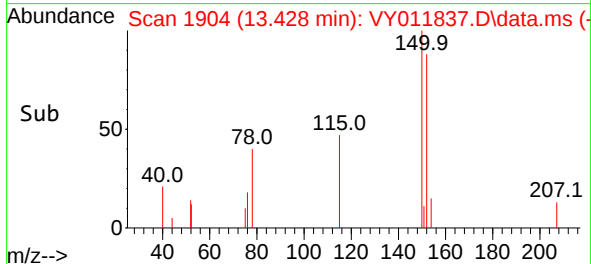
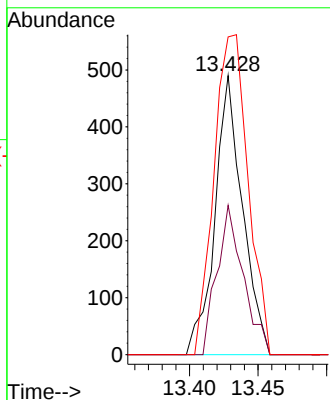
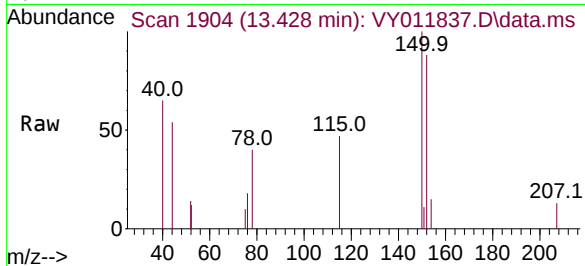




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

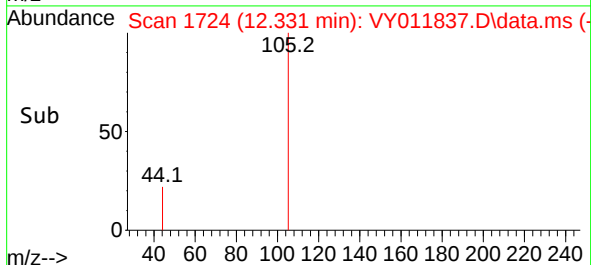
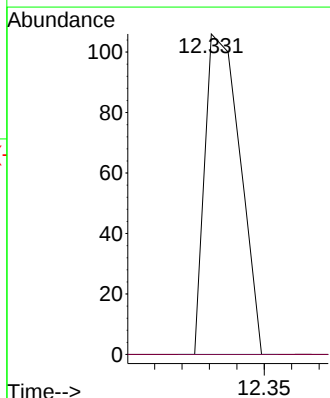
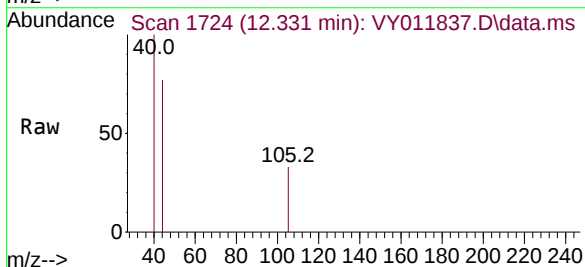
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-121322

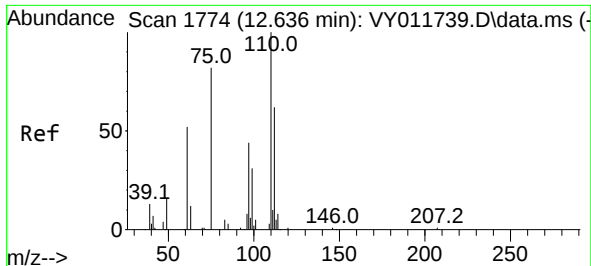
Tgt Ion:152 Resp: 685
Ion Ratio Lower Upper
152 100
115 50.9 29.1 87.3
150 142.0 0.0 342.6



#73
Isopropylbenzene
Concen: 2.118 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. -0.000 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

Tgt Ion:105 Resp: 94
Ion Ratio Lower Upper
105 100
120 0.0 13.2 39.6#

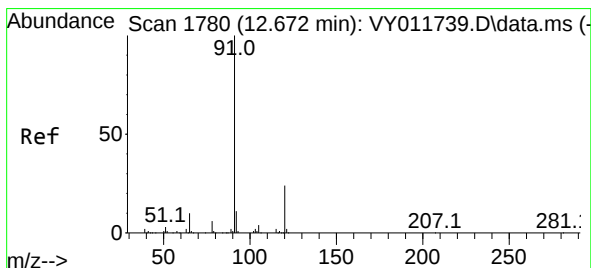
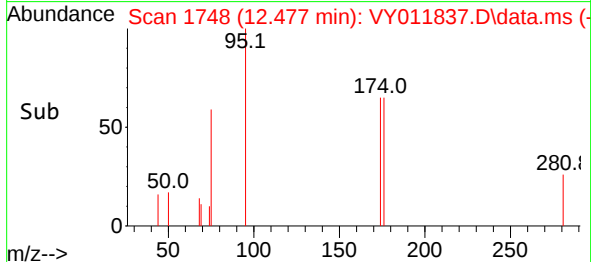
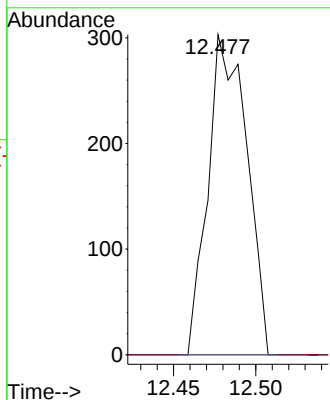
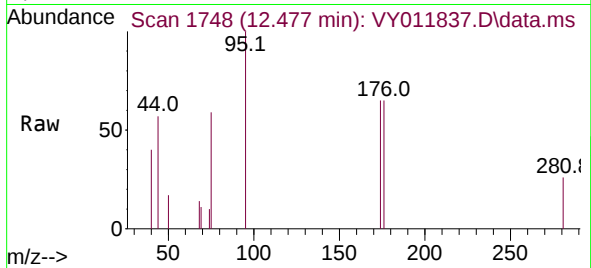




#76
1,2,3-Trichloropropane
Concen: 71.713 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.159 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

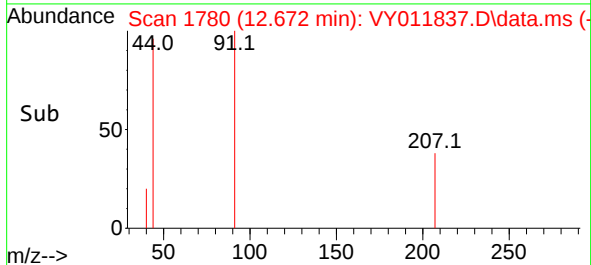
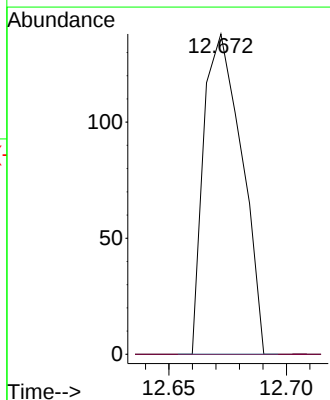
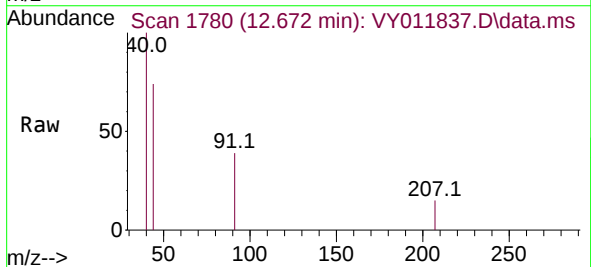
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-121322

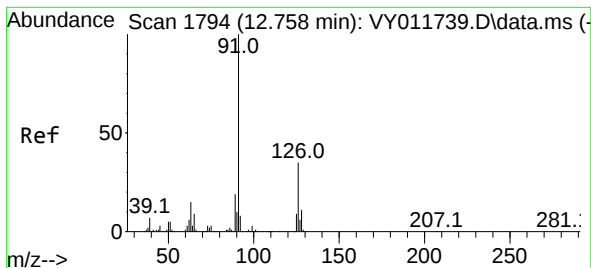
Tgt Ion: 75 Resp: 497
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 2.914 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. -0.000 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

Tgt Ion: 91 Resp: 155
Ion Ratio Lower Upper
91 100
120 0.0 11.8 35.4#





#79

2-Chlorotoluene

Concen: 5.436 ug/l

RT: 12.757 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY011837.D

Acq: 14 Dec 2022 12:10

Instrument :

MSVOA_Y

ClientSampleId :

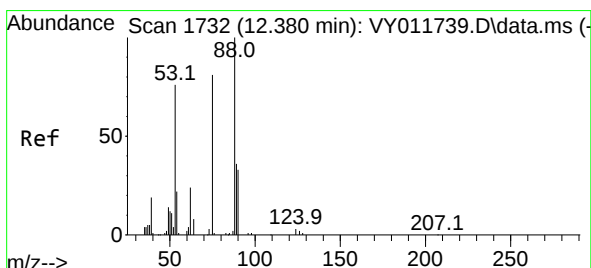
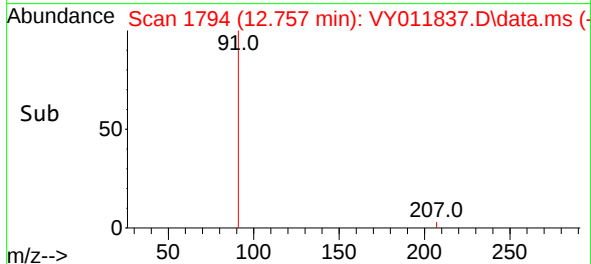
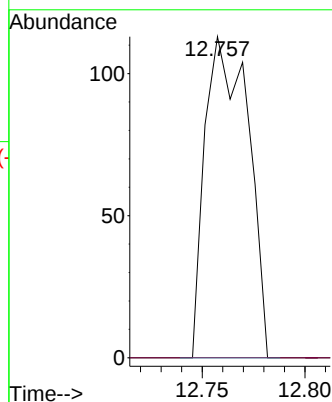
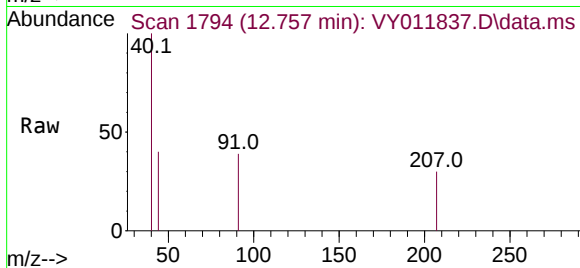
HR-01-121322

Tgt Ion: 91 Resp: 165

Ion Ratio Lower Upper

91 100

126 0.0 17.2 51.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 162.731 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.097 min

Lab File: VY011837.D

Acq: 14 Dec 2022 12:10

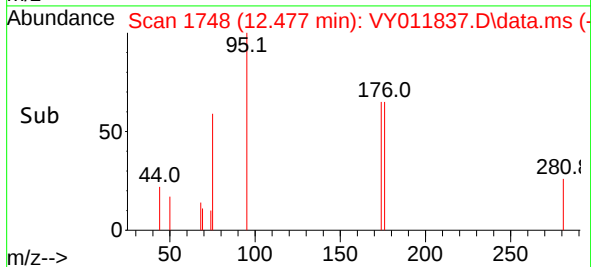
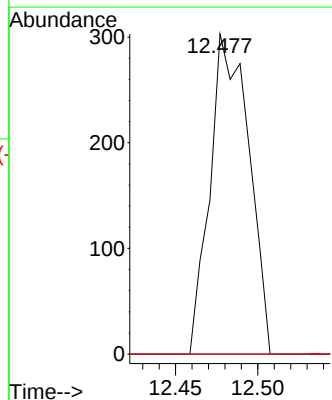
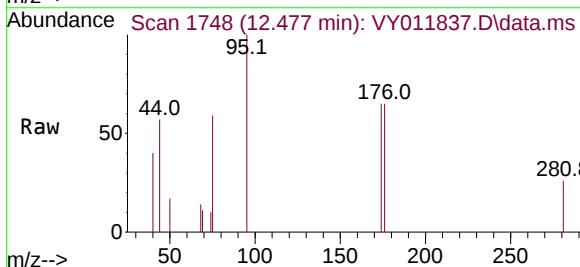
Tgt Ion: 75 Resp: 497

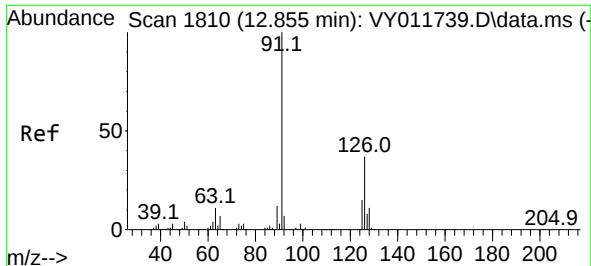
Ion Ratio Lower Upper

75 100

53 0.0 72.5 108.7#

89 0.0 37.0 55.4#

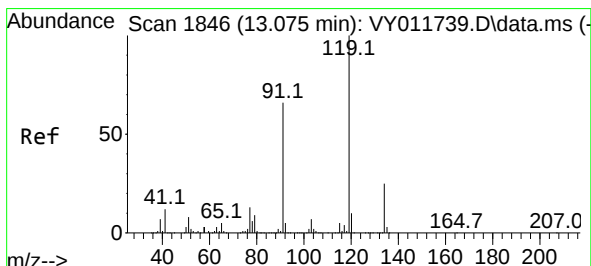
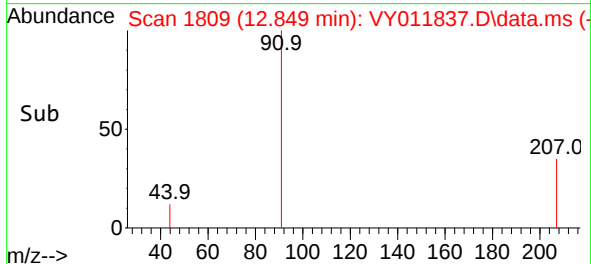
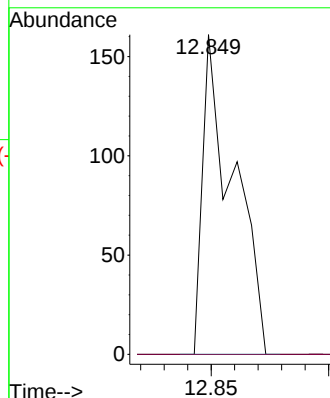
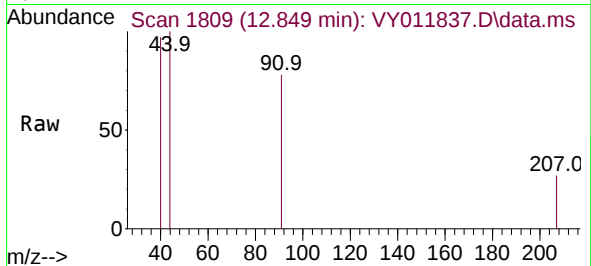




#82
4-Chlorotoluene
Concen: 4.669 ug/l
RT: 12.849 min Scan# 1809
Delta R.T. -0.006 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

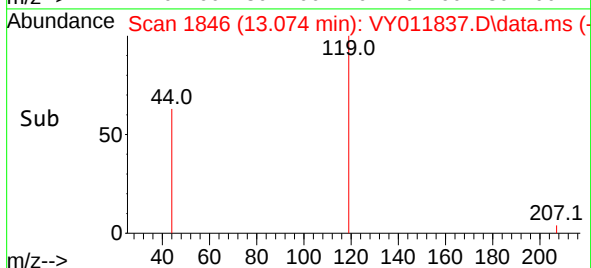
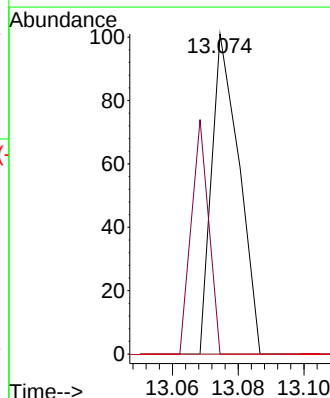
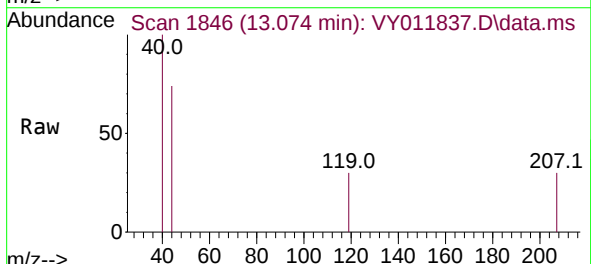
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-121322

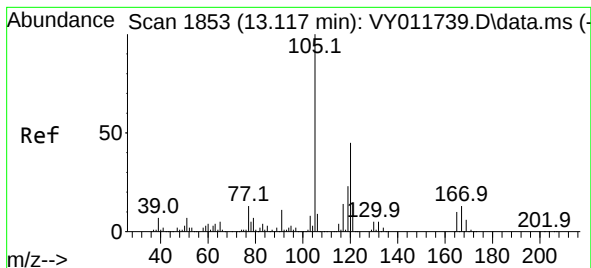
Tgt Ion: 91 Resp: 147
Ion Ratio Lower Upper
91 100
126 0.0 17.1 51.2#



#83
tert-Butylbenzene
Concen: 1.806 ug/l
RT: 13.074 min Scan# 1846
Delta R.T. -0.000 min
Lab File: VY011837.D
Acq: 14 Dec 2022 12:10

Tgt Ion: 119 Resp: 59
Ion Ratio Lower Upper
119 100
91 45.8 32.3 96.8
134 0.0 13.0 39.0#





#84

1,2,4-Trimethylbenzene

Concen: 1.895 ug/l

RT: 13.263 min Scan# 1853

Delta R.T. 0.146 min

Lab File: VY011837.D

Acq: 14 Dec 2022 12:10

Instrument :

MSVOA_Y

ClientSampleId :

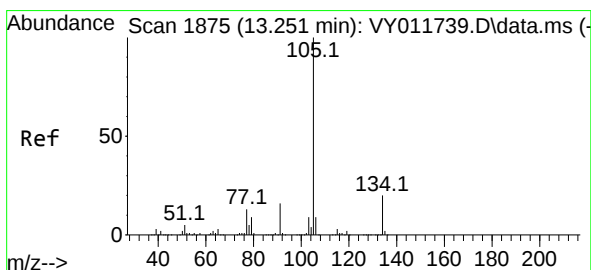
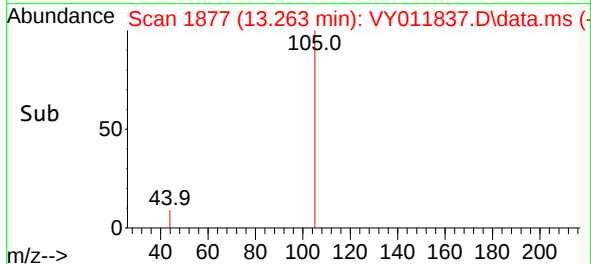
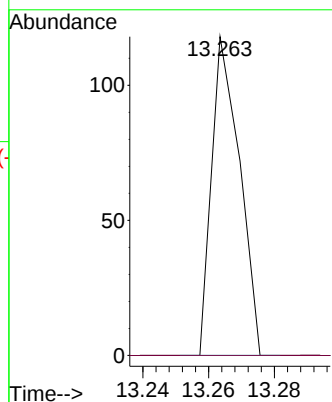
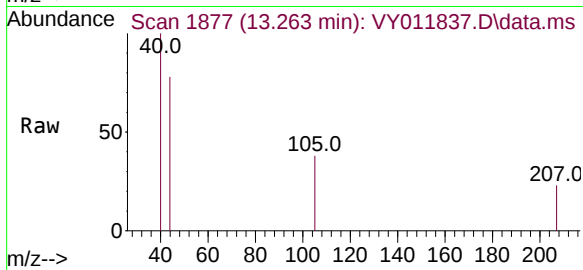
HR-01-121322

Tgt Ion:105 Resp: 70

Ion Ratio Lower Upper

105 100

120 0.0 22.9 68.7#



#85

sec-Butylbenzene

Concen: 1.439 ug/l

RT: 13.263 min Scan# 1877

Delta R.T. 0.012 min

Lab File: VY011837.D

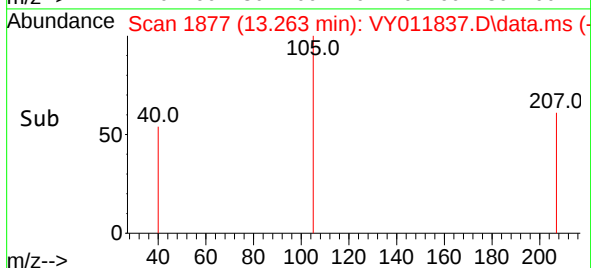
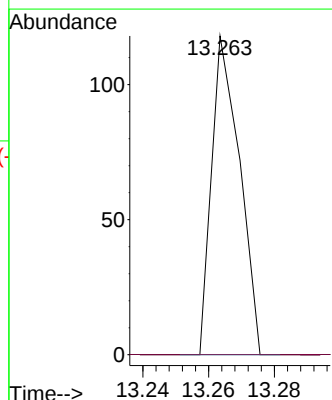
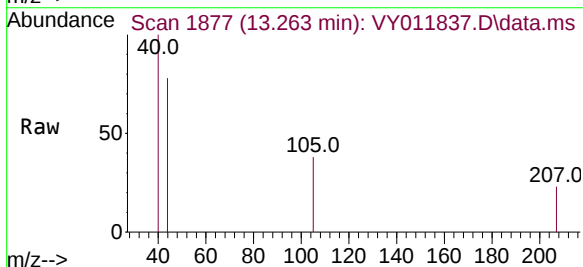
Acq: 14 Dec 2022 12:10

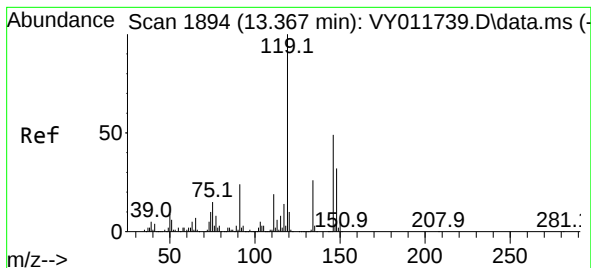
Tgt Ion:105 Resp: 70

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.3#

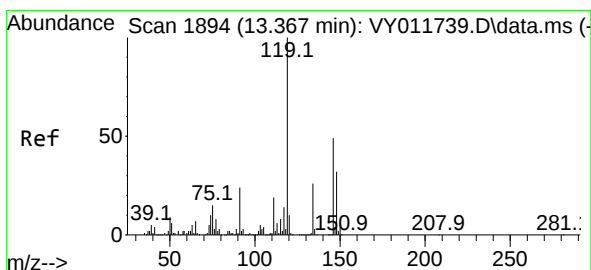
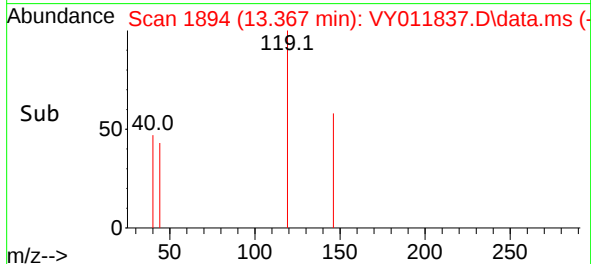
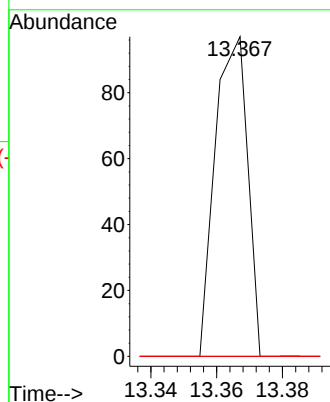
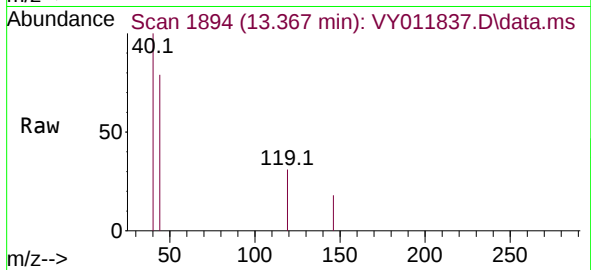




#86
 p-Isopropyltoluene
 Concen: 1.630 ug/l
 RT: 13.367 min Scan# 1894
 Delta R.T. -0.000 min
 Lab File: VY011837.D
 Acq: 14 Dec 2022 12:10

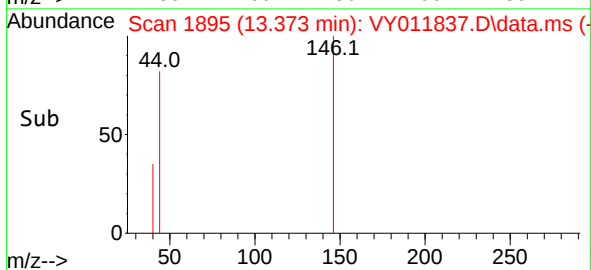
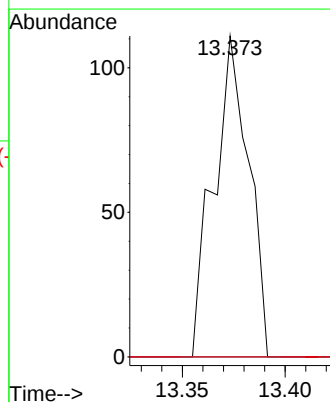
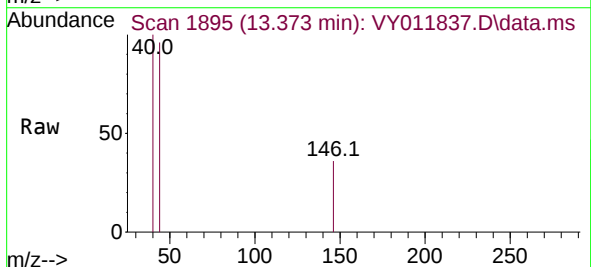
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-01-121322

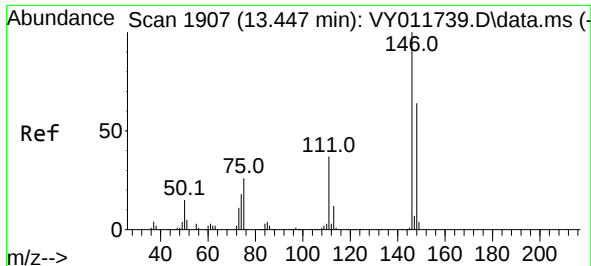
Tgt Ion:119 Resp: 66
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.0 39.0#
 91 0.0 11.9 35.9#



#87
 1,3-Dichlorobenzene
 Concen: 6.330 ug/l
 RT: 13.373 min Scan# 1895
 Delta R.T. 0.006 min
 Lab File: VY011837.D
 Acq: 14 Dec 2022 12:10

Tgt Ion:146 Resp: 132
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.7 59.0#
 148 0.0 32.0 96.0#





#88

1,4-Dichlorobenzene

Concen: 7.044 ug/l

RT: 13.446 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY011837.D

Acq: 14 Dec 2022 12:10

Instrument :

MSVOA_Y

ClientSampleId :

HR-01-121322

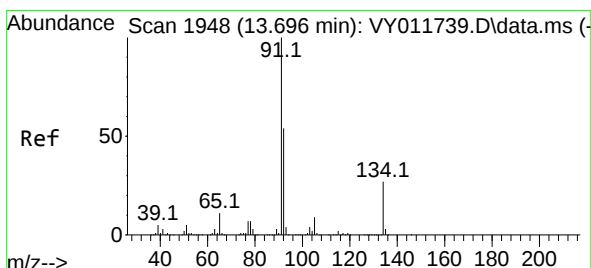
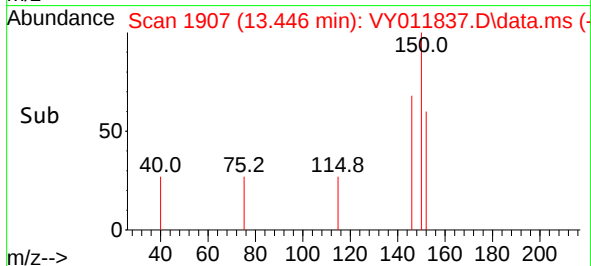
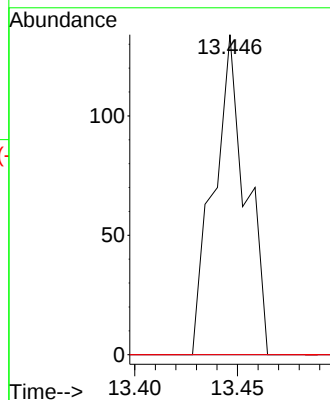
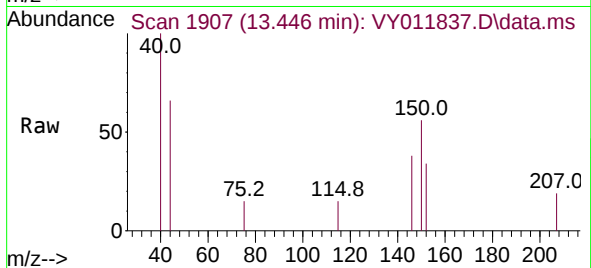
Tgt Ion:146 Resp: 146

Ion Ratio Lower Upper

146 100

111 0.0 19.6 58.7#

148 0.0 31.9 95.7#



#89

n-Butylbenzene

Concen: 1.413 ug/l

RT: 13.708 min Scan# 1950

Delta R.T. 0.012 min

Lab File: VY011837.D

Acq: 14 Dec 2022 12:10

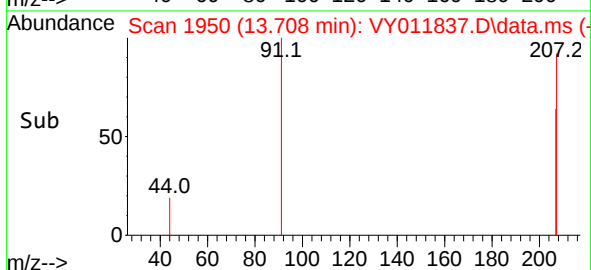
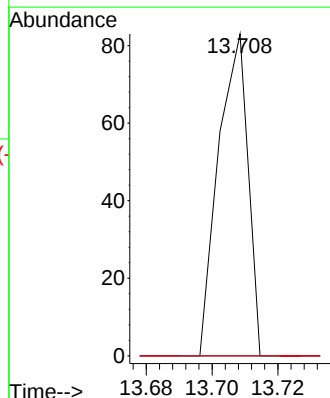
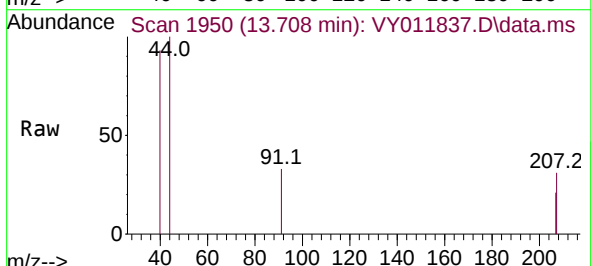
Tgt Ion: 91 Resp: 52

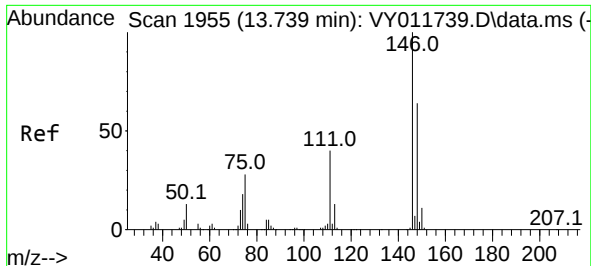
Ion Ratio Lower Upper

91 100

92 0.0 26.8 80.4#

134 0.0 13.3 39.8#





#91

1,2-Dichlorobenzene

Concen: 3.037 ug/l

RT: 13.739 min Scan# 1955

Delta R.T. -0.000 min

Lab File: VY011837.D

Acq: 14 Dec 2022 12:10

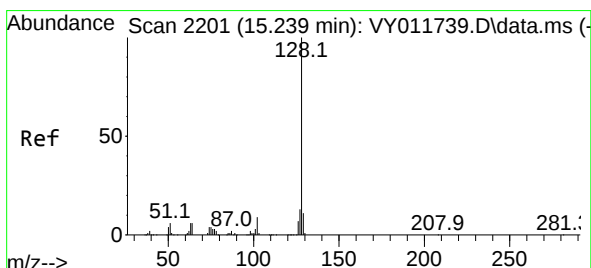
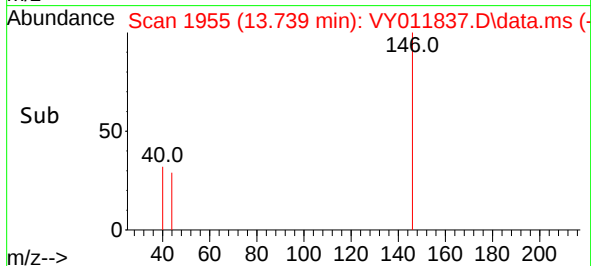
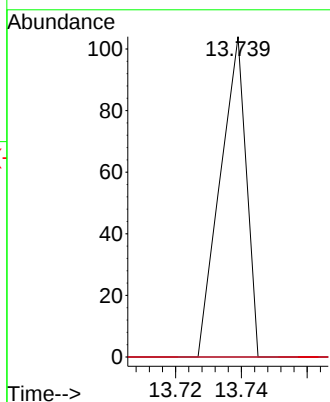
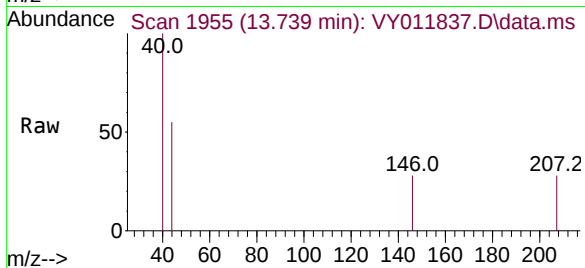
Instrument :

MSVOA_Y

ClientSampleId :

HR-01-121322

Tgt Ion:	146	Resp:	57
Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.3	60.8#
148	0.0	31.8	95.4#



#95

Naphthalene

Concen: 8.303 ug/l

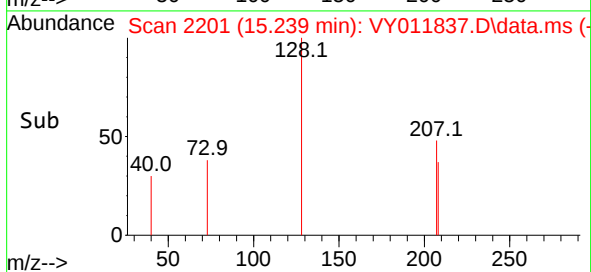
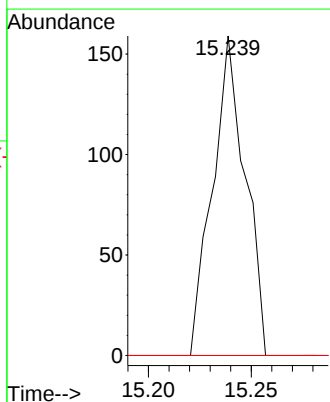
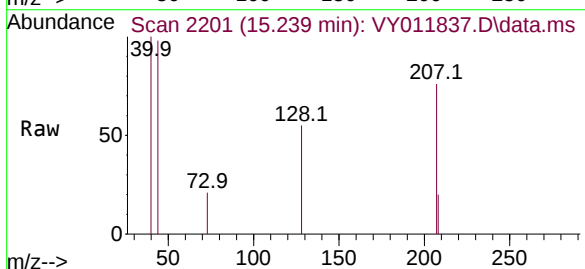
RT: 15.239 min Scan# 2201

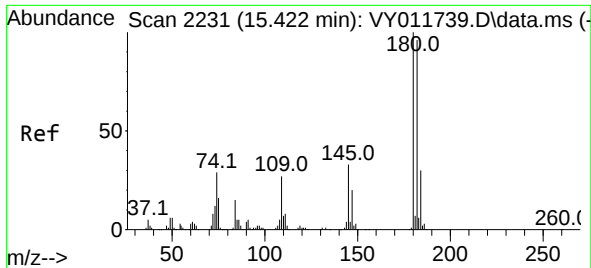
Delta R.T. -0.000 min

Lab File: VY011837.D

Acq: 14 Dec 2022 12:10

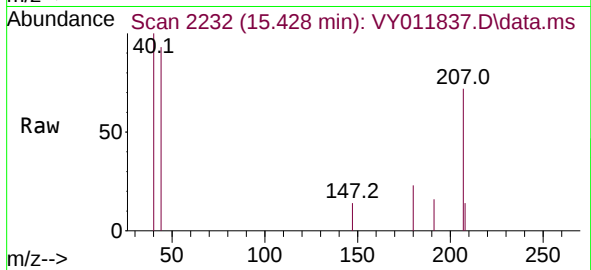
Tgt Ion:	128	Resp:	176
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.8	13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 5.818 ug/l
 RT: 15.428 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY011837.D
 Acq: 14 Dec 2022 12:10

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-01-121322



Tgt Ion:180 Resp: 55
 Ion Ratio Lower Upper
 180 100
 182 32.7 47.9 143.7#
 145 0.0 16.1 48.2#

