

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020923\
 Data File : VY012566.D
 Acq On : 09 Feb 2023 16:55
 Operator : KP/MD
 Sample : 01507-01RE
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ETGI-330RE

Quant Time: Feb 10 05:59:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020723S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 08 01:09:03 2023
 Response via : Initial Calibration

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

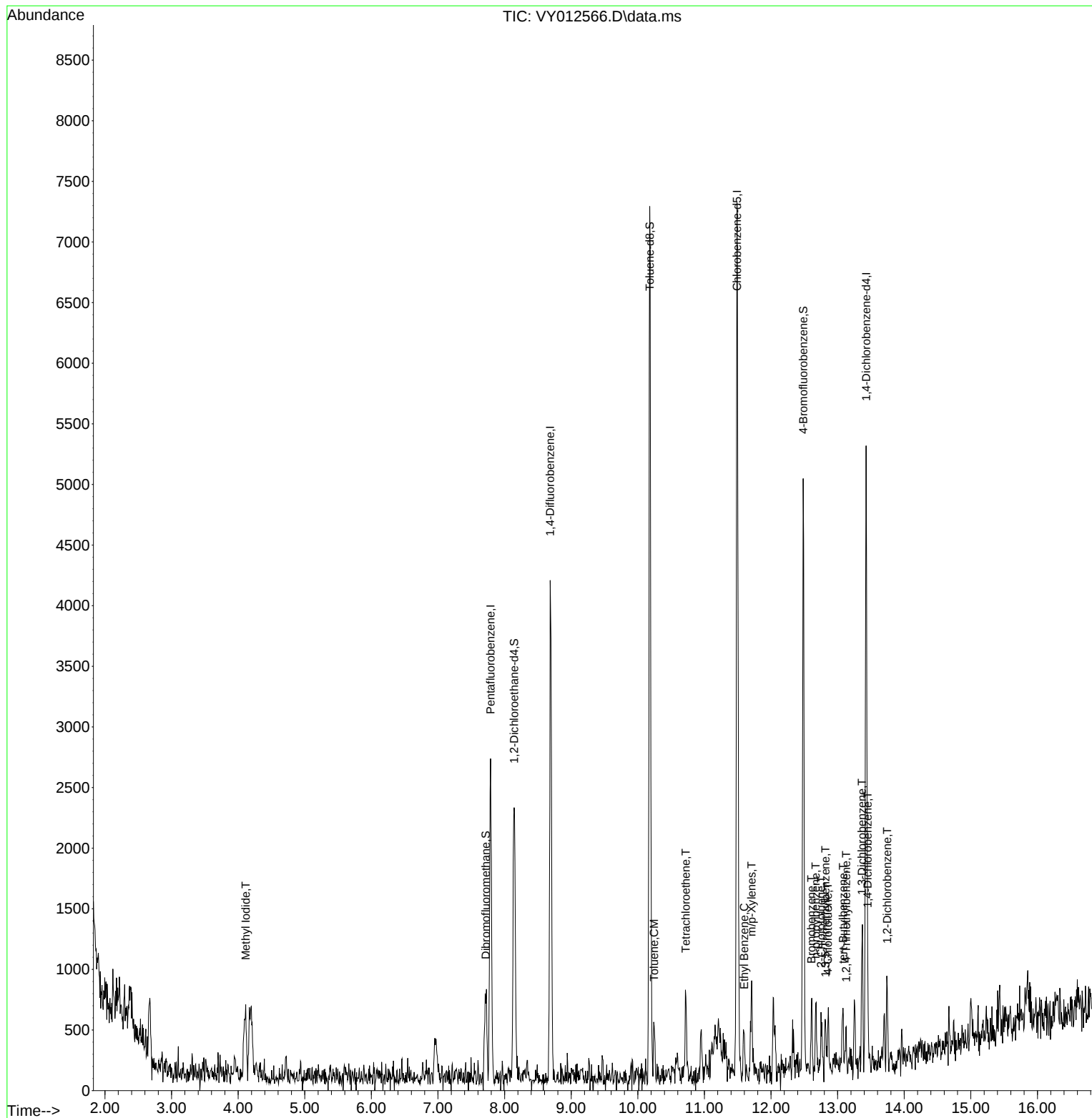
Internal Standards						
1) Pentafluorobenzene	7.789	168	2350	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	4484	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	4853	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	1579	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	2016	67.463	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 134.920%	
35) Dibromofluoromethane	7.716	113	713	21.834	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 43.660%#	
50) Toluene-d8	10.179	98	5319	39.133	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 78.260%	
62) 4-Bromofluorobenzene	12.483	95	1565	33.010	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 66.020%	
Target Compounds						
						Qvalue
10) Methyl Iodide	4.113	142	823	26.812	ug/l #	92
52) Toluene	10.246	92	198	2.237	ug/l #	74
64) Tetrachloroethene	10.721	164	159	3.138	ug/l	93
67) Ethyl Benzene	11.599	91	389	1.925	ug/l	89
68) m/p-Xylenes	11.709	106	393	4.872	ug/l	81
77) Bromobenzene	12.605	156	214	6.911	ug/l	81
78) n-propylbenzene	12.672	91	546	3.713	ug/l	97
79) 2-Chlorotoluene	12.751	91	385	4.612	ug/l	81
80) 1,3,5-Trimethylbenzene	12.819	105	241	2.191	ug/l	83
82) 4-Chlorotoluene	12.855	91	465	5.311	ug/l	82
83) tert-Butylbenzene	13.081	119	395	4.096	ug/l	83
84) 1,2,4-Trimethylbenzene	13.129	105	240	2.218	ug/l	74
87) 1,3-Dichlorobenzene	13.367	146	446	7.239	ug/l	86
88) 1,4-Dichlorobenzene	13.453	146	551	8.929	ug/l	84
91) 1,2-Dichlorobenzene	13.745	146	444	8.011	ug/l	89

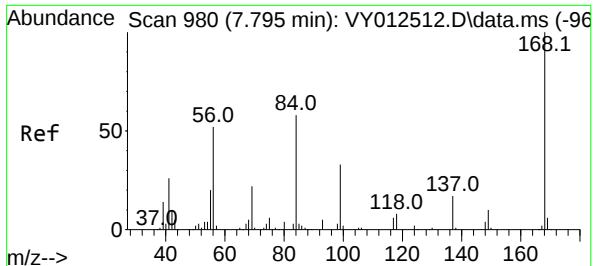
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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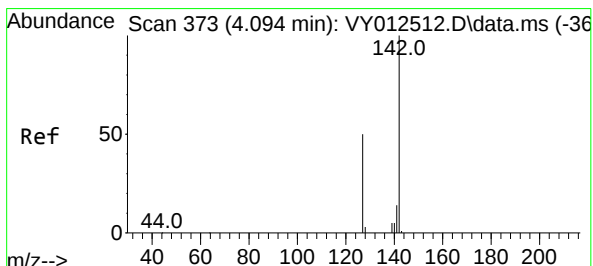
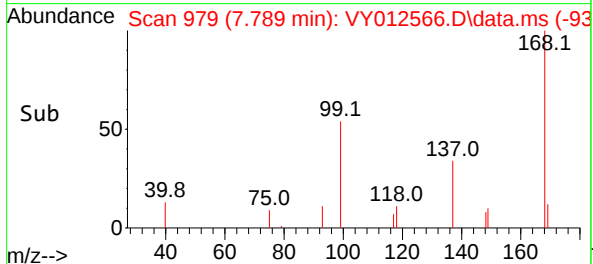
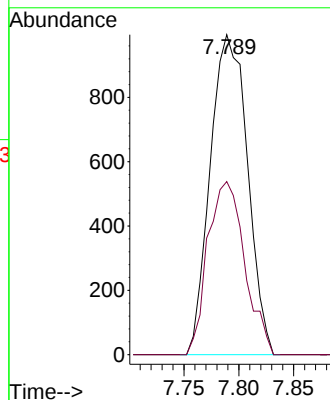
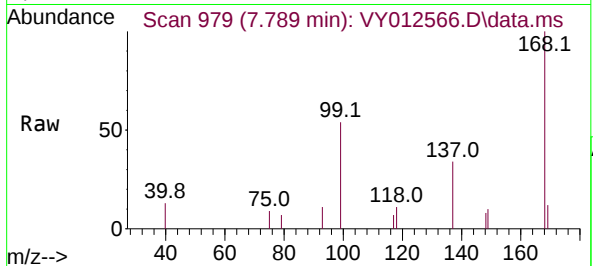




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

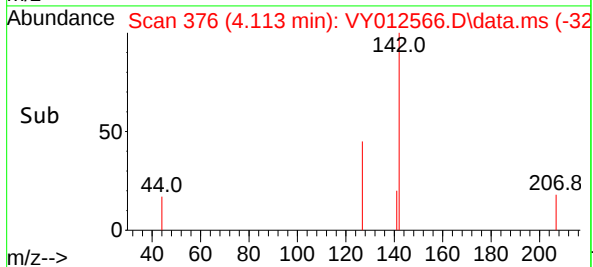
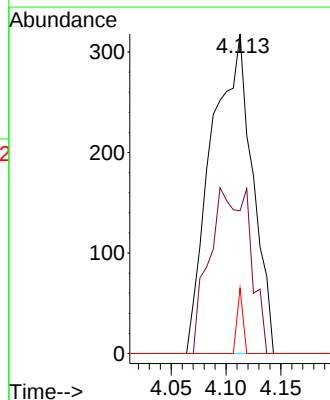
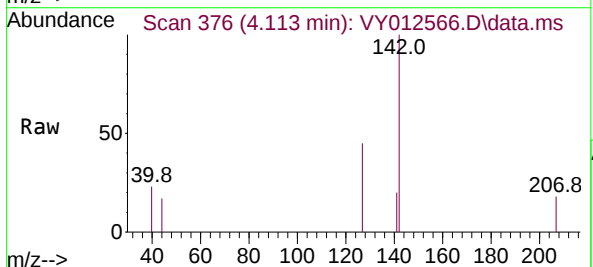
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-330RE

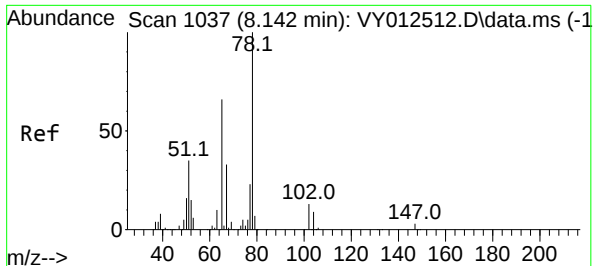
Tgt Ion:168 Resp: 2350
Ion Ratio Lower Upper
168 100
99 54.1 40.8 61.2



#10
Methyl Iodide
Concen: 26.812 ug/l
RT: 4.113 min Scan# 376
Delta R.T. 0.019 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

Tgt Ion:142 Resp: 823
Ion Ratio Lower Upper
142 100
127 51.3 39.8 59.6
141 2.9 11.6 17.4#





#33

1,2-Dichloroethane-d4

Concen: 67.463 ug/l

RT: 8.143 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY012566.D

Acq: 09 Feb 2023 16:55

Instrument :

MSVOA_Y

ClientSampleId :

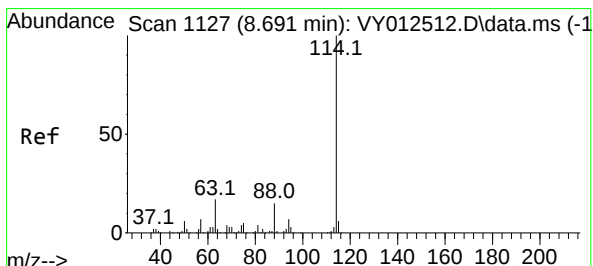
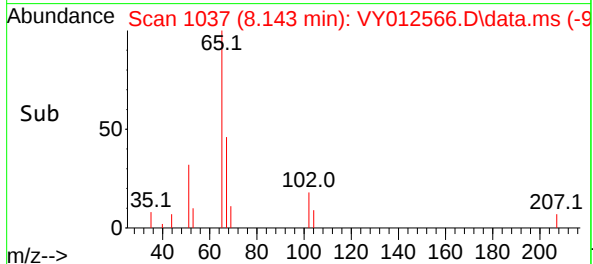
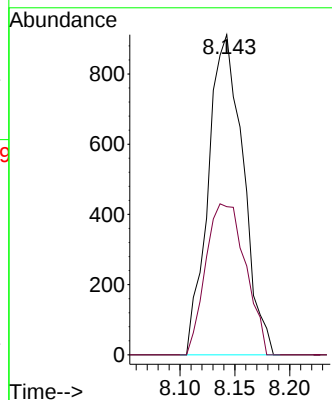
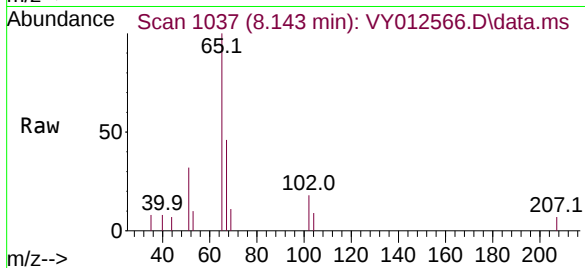
ETGI-330RE

Tgt Ion: 65 Resp: 2016

Ion Ratio Lower Upper

65 100

67 53.8 0.0 98.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY012566.D

Acq: 09 Feb 2023 16:55

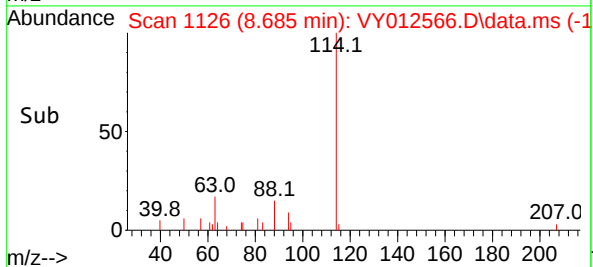
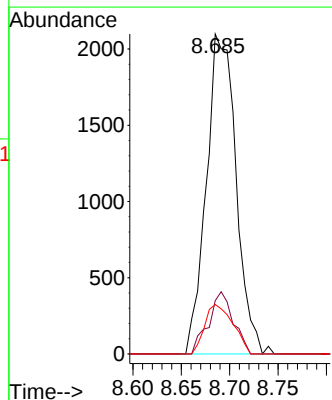
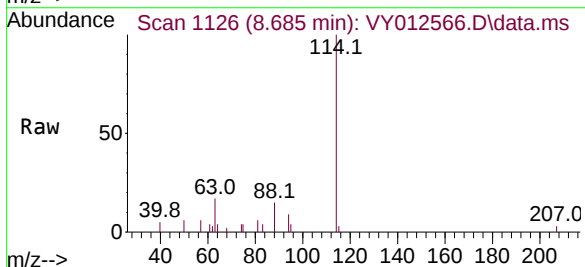
Tgt Ion: 114 Resp: 4484

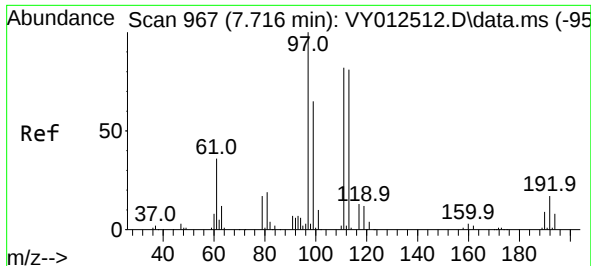
Ion Ratio Lower Upper

114 100

63 16.7 0.0 33.6

88 15.4 0.0 29.8

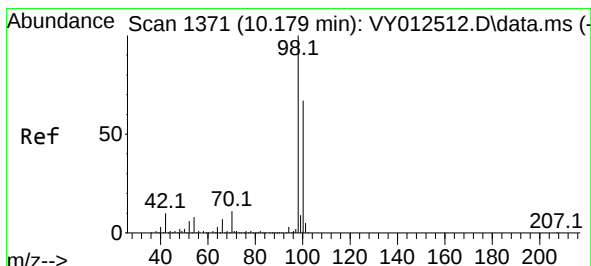
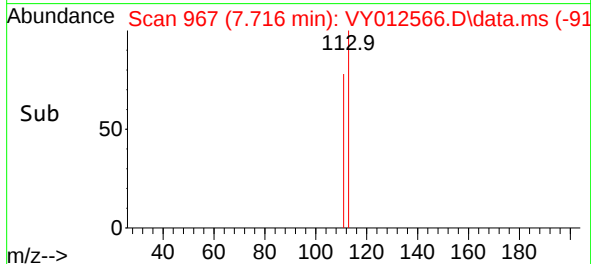
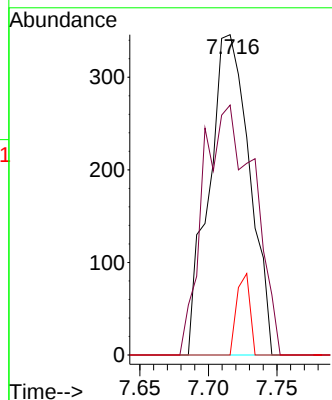
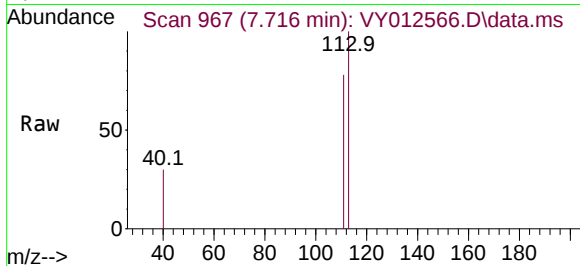




#35
Dibromofluoromethane
Concen: 21.834 ug/l
RT: 7.716 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

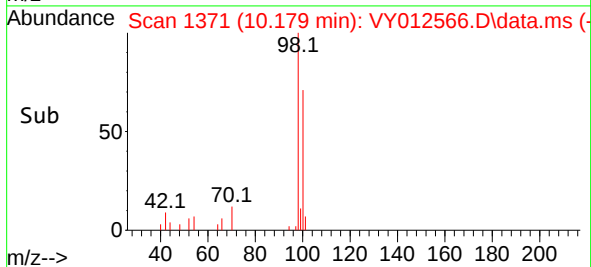
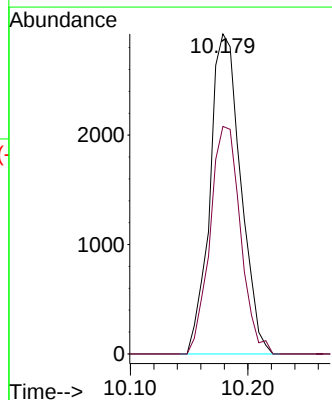
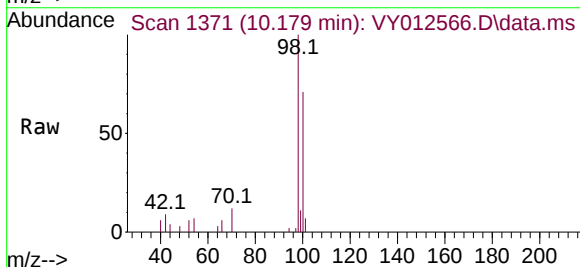
Instrument :
MSVOA_Y
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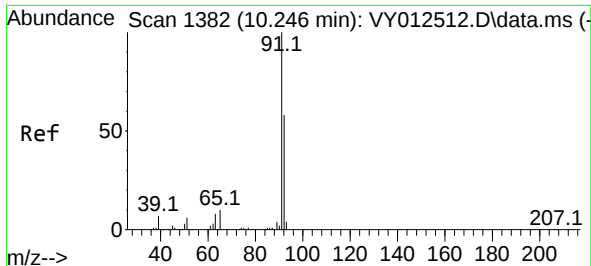
Tgt Ion:113 Resp: 713
Ion Ratio Lower Upper
113 100
111 97.9 81.9 122.9
192 8.3 17.5 26.3#



#50
Toluene-d8
Concen: 39.133 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

Tgt Ion: 98 Resp: 5319
Ion Ratio Lower Upper
98 100
100 70.4 52.2 78.2

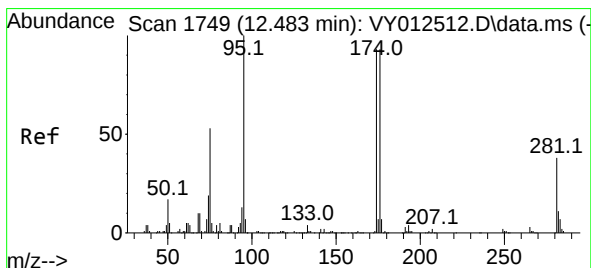
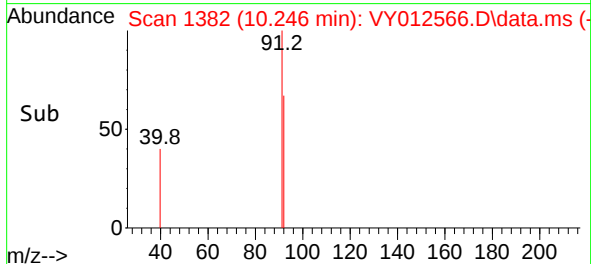
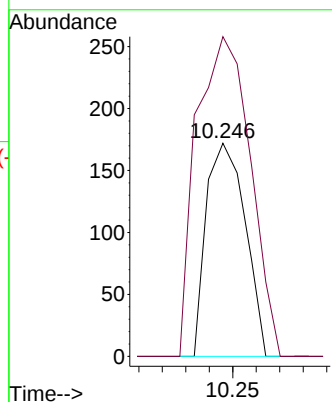
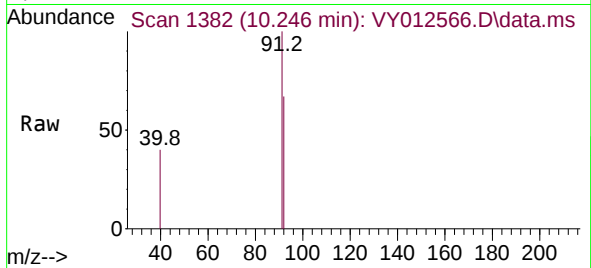




#52
Toluene
Concen: 2.237 ug/l
RT: 10.246 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

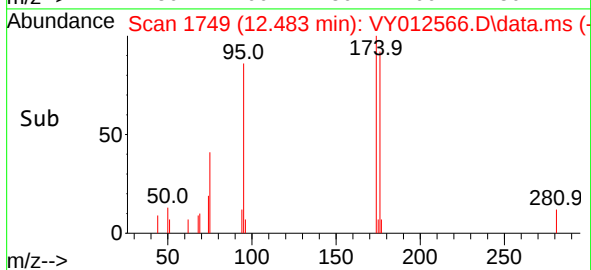
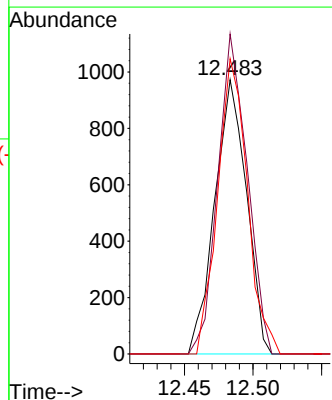
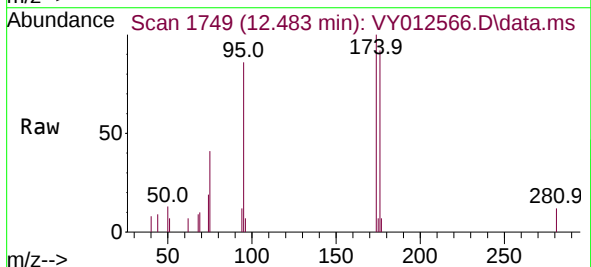
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-330RE

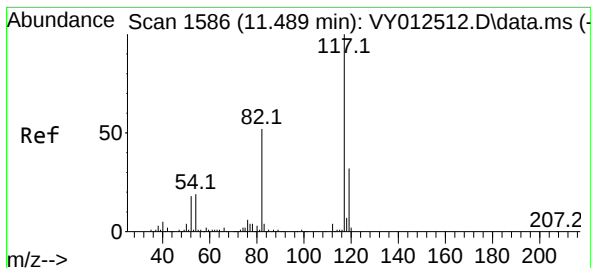
Tgt Ion: 92 Resp: 198
Ion Ratio Lower Upper
92 100
91 207.1 137.2 205.8#



#62
4-Bromofluorobenzene
Concen: 33.010 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

Tgt Ion: 95 Resp: 1565
Ion Ratio Lower Upper
95 100
174 108.6 0.0 188.0
176 101.3 0.0 183.6

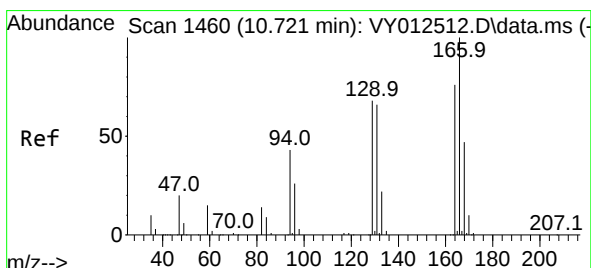
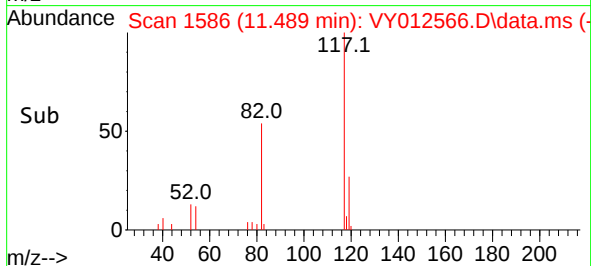
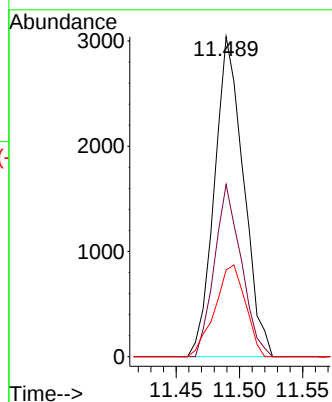
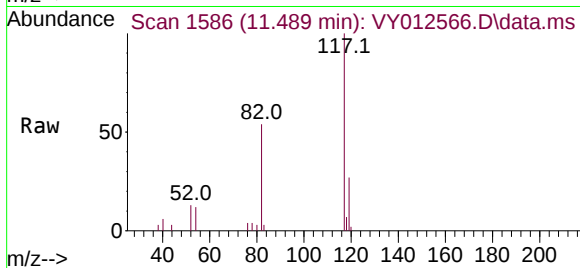




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

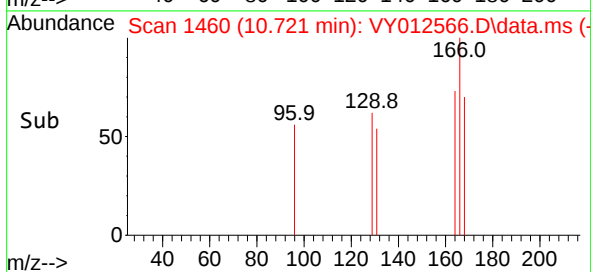
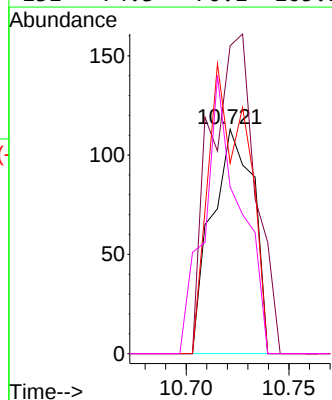
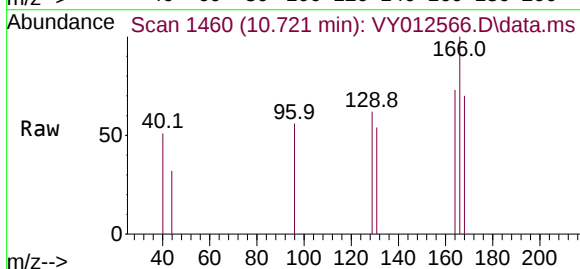
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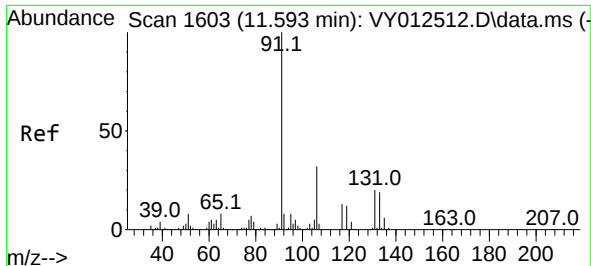
Tgt Ion:117 Resp: 4853
Ion Ratio Lower Upper
117 100
82 53.8 41.7 62.5
119 27.1 25.8 38.8



#64
Tetrachloroethene
Concen: 3.138 ug/l
RT: 10.721 min Scan# 1460
Delta R.T. 0.000 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

Tgt Ion:164 Resp: 159
Ion Ratio Lower Upper
164 100
166 137.2 105.7 158.5
129 85.0 71.8 107.6
131 74.3 70.1 105.1





#67

Ethyl Benzene

Concen: 1.925 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. 0.006 min

Lab File: VY012566.D

Acq: 09 Feb 2023 16:55

Instrument :

MSVOA_Y

ClientSampleId :

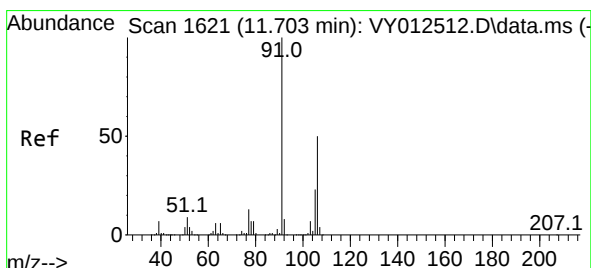
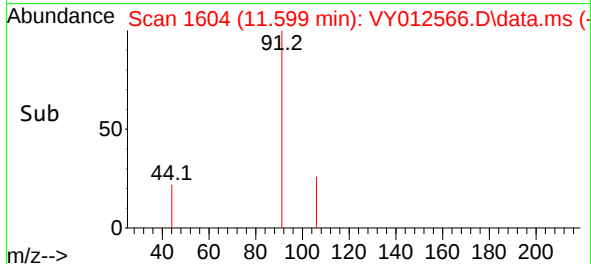
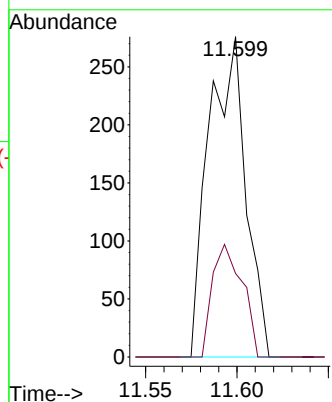
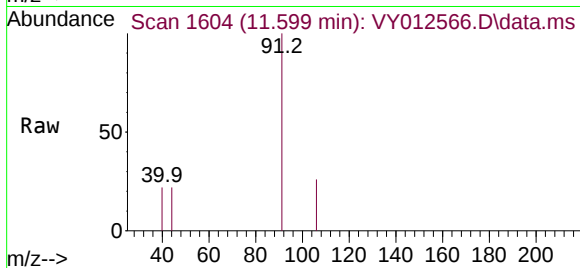
ETGI-330RE

Tgt Ion: 91 Resp: 389

Ion Ratio Lower Upper

91 100

106 26.1 25.6 38.4



#68

m/p-Xylenes

Concen: 4.872 ug/l

RT: 11.709 min Scan# 1622

Delta R.T. 0.006 min

Lab File: VY012566.D

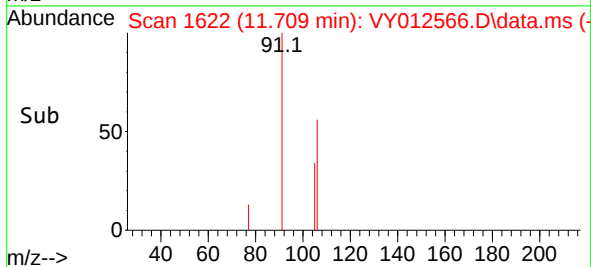
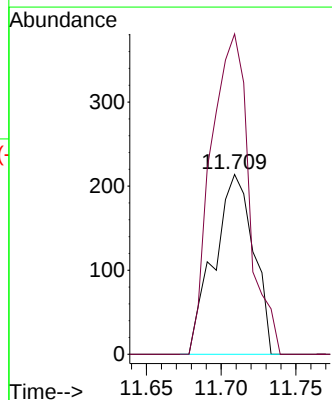
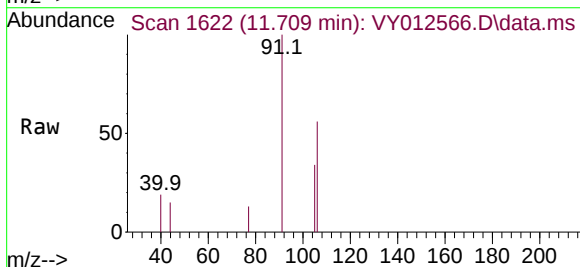
Acq: 09 Feb 2023 16:55

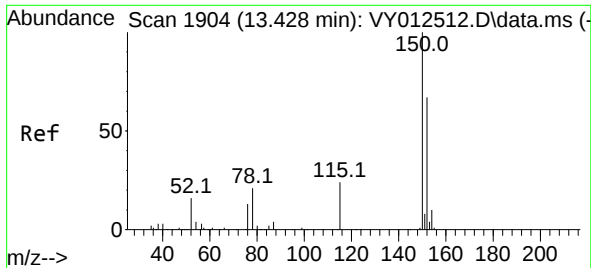
Tgt Ion: 106 Resp: 393

Ion Ratio Lower Upper

106 100

91 171.5 160.3 240.5

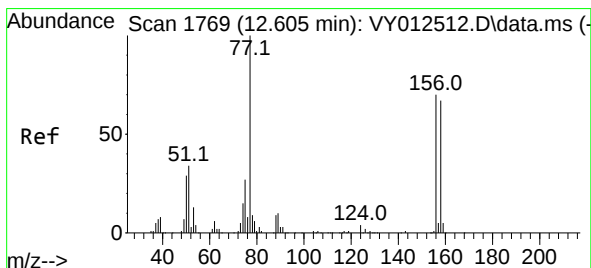
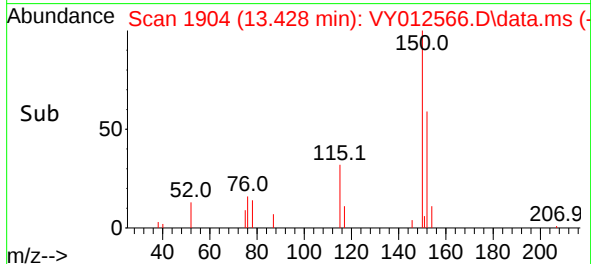
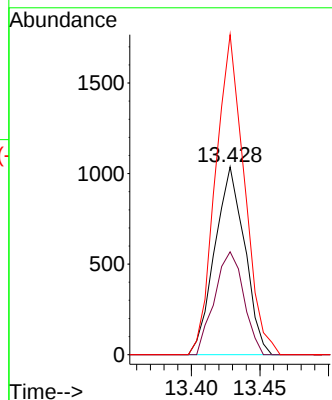
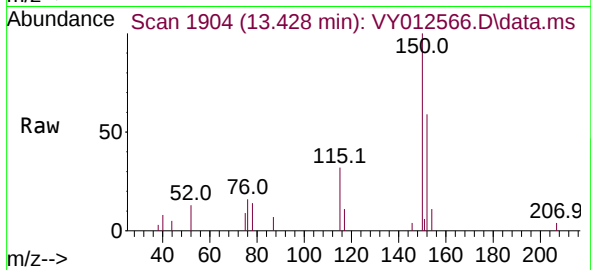




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

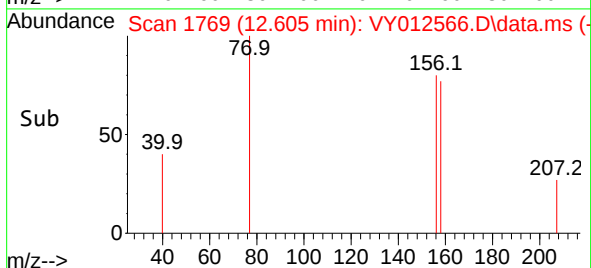
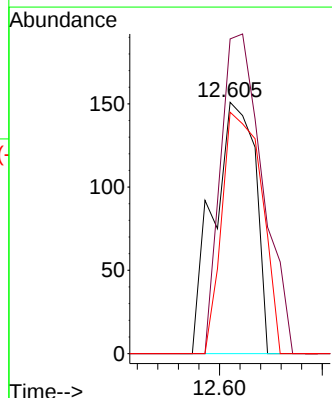
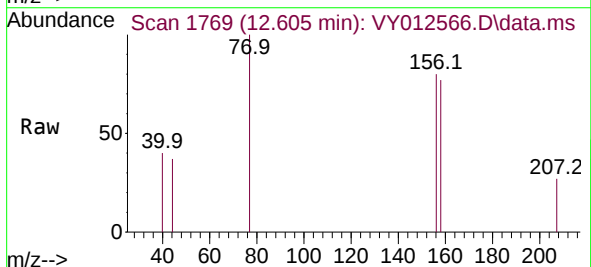
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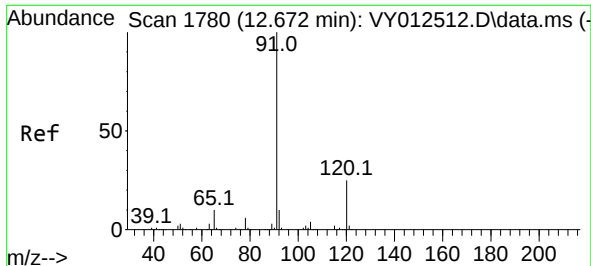
Tgt Ion:152 Resp: 1579
Ion Ratio Lower Upper
152 100
115 53.1 28.1 84.3
150 164.0 0.0 351.0



#77
Bromobenzene
Concen: 6.911 ug/l
RT: 12.605 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

Tgt Ion:156 Resp: 214
Ion Ratio Lower Upper
156 100
77 127.1 80.6 241.8
158 91.1 49.1 147.3

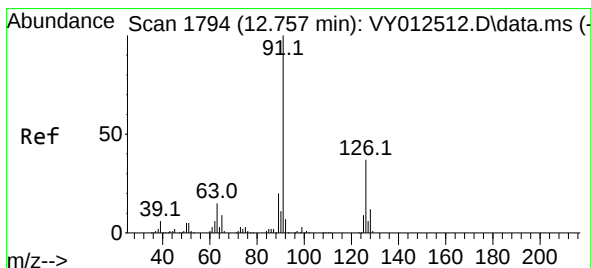
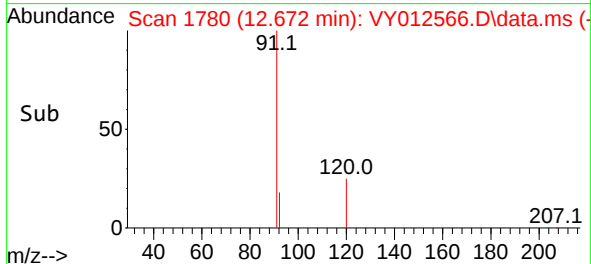
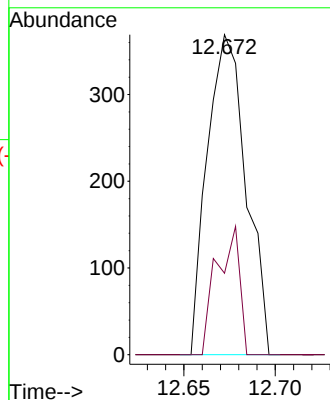
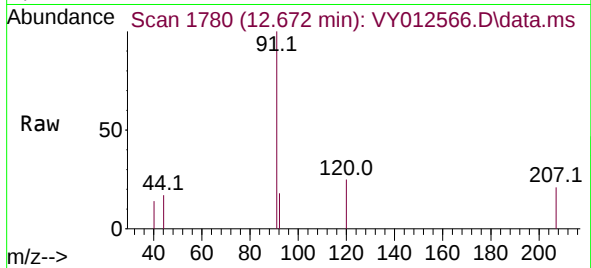




#78
n-propylbenzene
Concen: 3.713 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

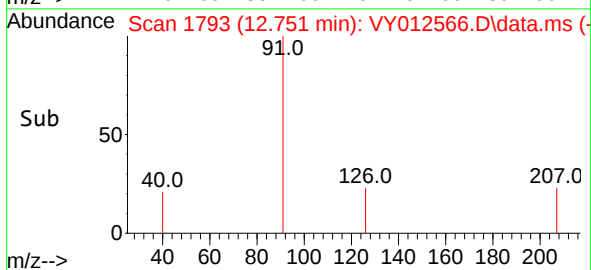
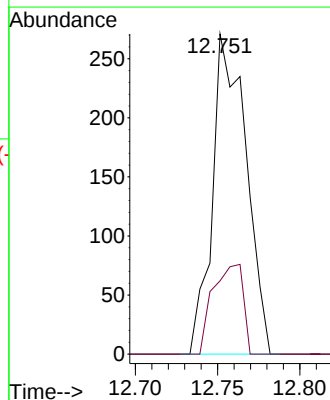
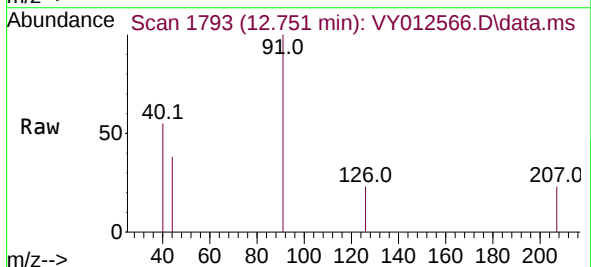
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-330RE

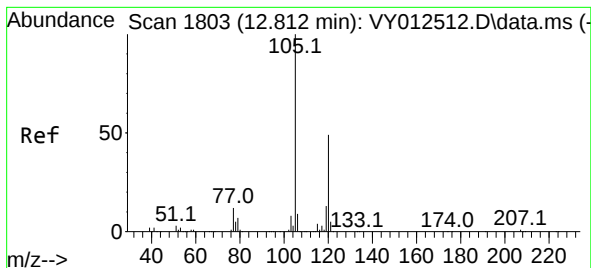
Tgt Ion: 91 Resp: 546
Ion Ratio Lower Upper
91 100
120 23.6 12.4 37.4



#79
2-Chlorotoluene
Concen: 4.612 ug/l
RT: 12.751 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VY012566.D
Acq: 09 Feb 2023 16:55

Tgt Ion: 91 Resp: 385
Ion Ratio Lower Upper
91 100
126 25.2 18.3 54.8





#80

1,3,5-Trimethylbenzene

Concen: 2.191 ug/l

RT: 12.819 min Scan# 1804

Delta R.T. 0.006 min

Lab File: VY012566.D

Acq: 09 Feb 2023 16:55

Instrument :

MSVOA_Y

ClientSampleId :

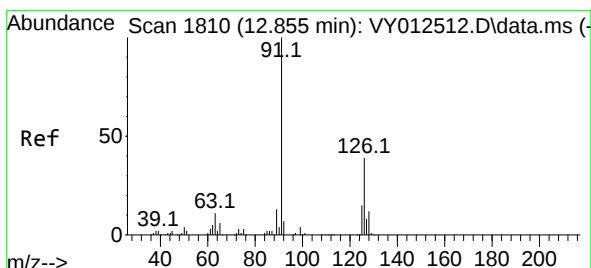
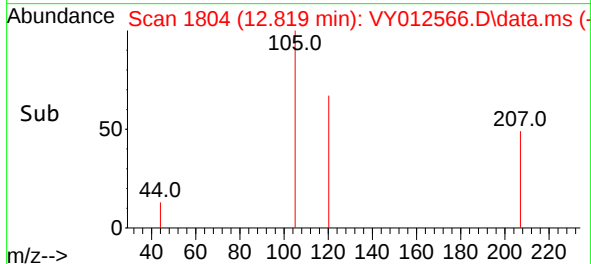
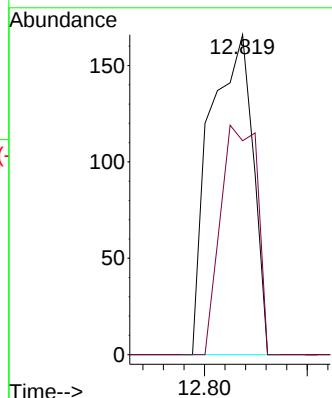
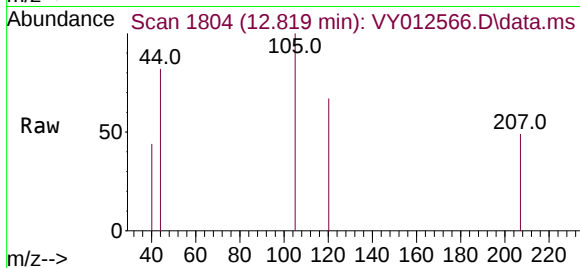
ETGI-330RE

Tgt Ion:105 Resp: 241

Ion Ratio Lower Upper

105 100

120 61.0 24.6 74.0



#82

4-Chlorotoluene

Concen: 5.311 ug/l

RT: 12.855 min Scan# 1810

Delta R.T. 0.000 min

Lab File: VY012566.D

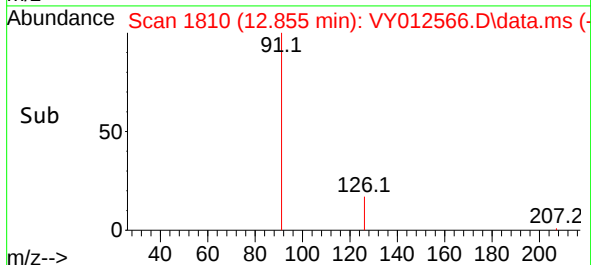
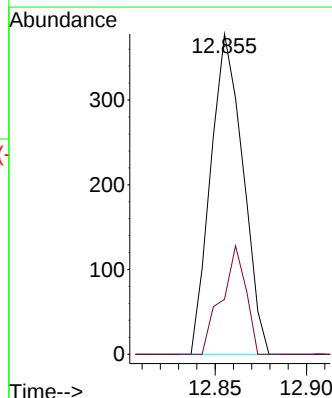
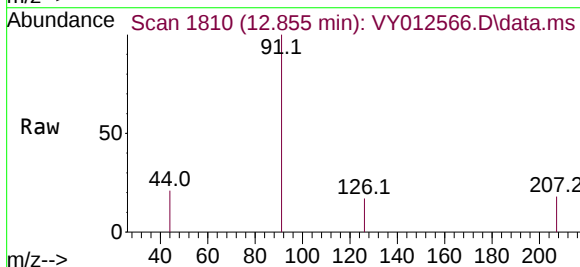
Acq: 09 Feb 2023 16:55

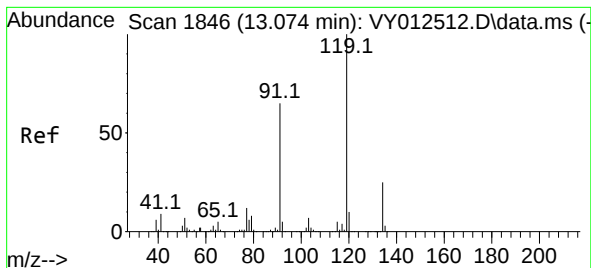
Tgt Ion: 91 Resp: 465

Ion Ratio Lower Upper

91 100

126 25.4 18.1 54.3





#83

tert-Butylbenzene

Concen: 4.096 ug/l

RT: 13.081 min Scan# 1847

Delta R.T. 0.006 min

Lab File: VY012566.D

Acq: 09 Feb 2023 16:55

Instrument :

MSVOA_Y

ClientSampleId :

ETGI-330RE

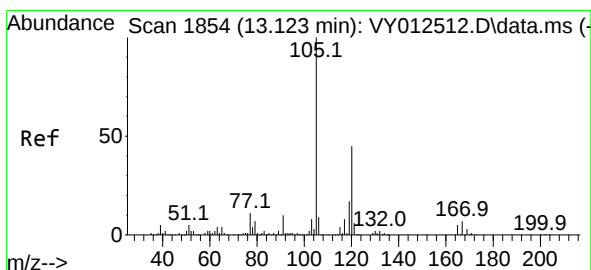
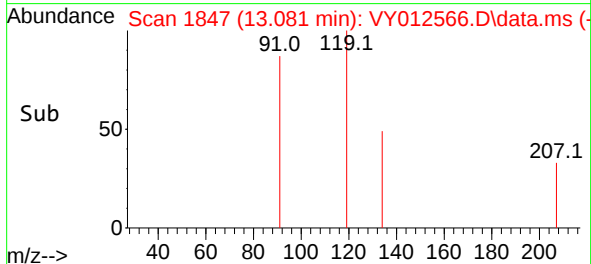
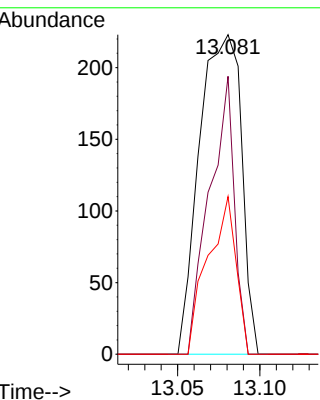
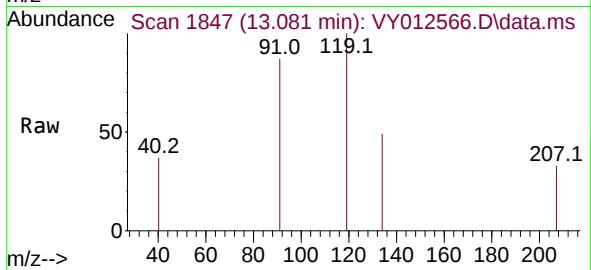
Tgt Ion:119 Resp: 395

Ion Ratio Lower Upper

119 100

91 51.9 33.0 99.0

134 33.4 13.1 39.3



#84

1,2,4-Trimethylbenzene

Concen: 2.218 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. 0.006 min

Lab File: VY012566.D

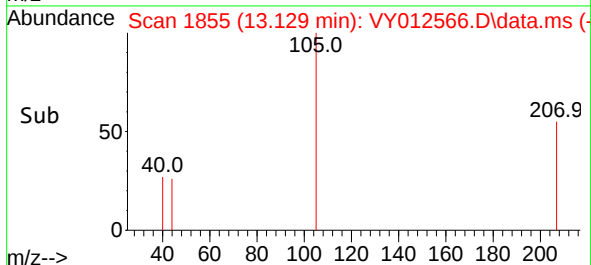
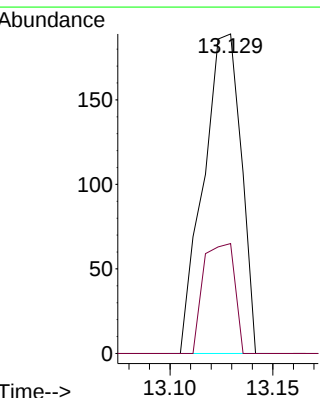
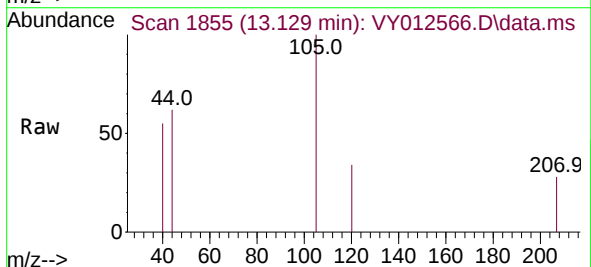
Acq: 09 Feb 2023 16:55

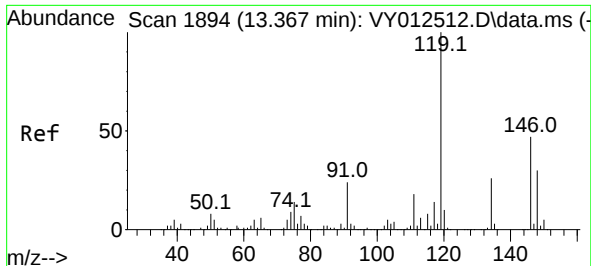
Tgt Ion:105 Resp: 240

Ion Ratio Lower Upper

105 100

120 28.3 22.8 68.3





#87

1,3-Dichlorobenzene

Concen: 7.239 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY012566.D

Acq: 09 Feb 2023 16:55

Instrument :

MSVOA_Y

ClientSampleId :

ETGI-330RE

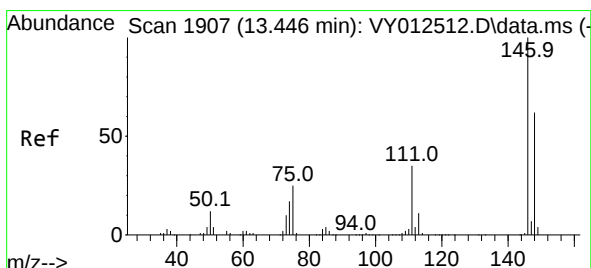
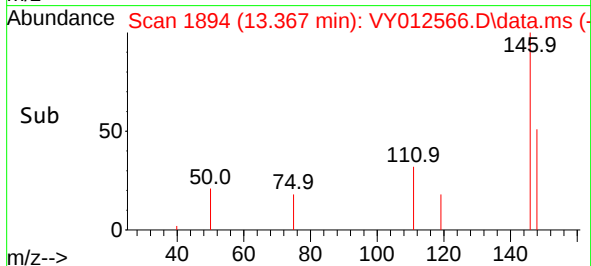
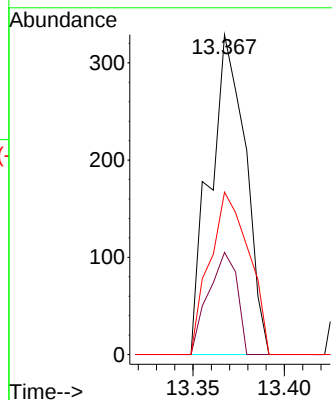
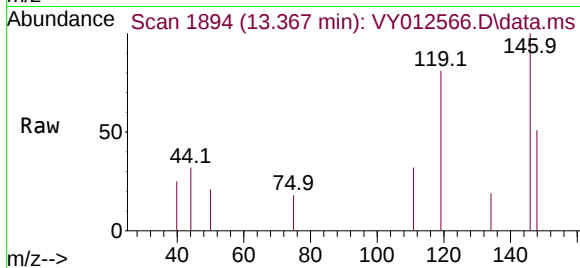
Tgt Ion:146 Resp: 446

Ion Ratio Lower Upper

146 100

111 25.8 19.3 57.9

148 56.1 32.0 96.2



#88

1,4-Dichlorobenzene

Concen: 8.929 ug/l

RT: 13.453 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY012566.D

Acq: 09 Feb 2023 16:55

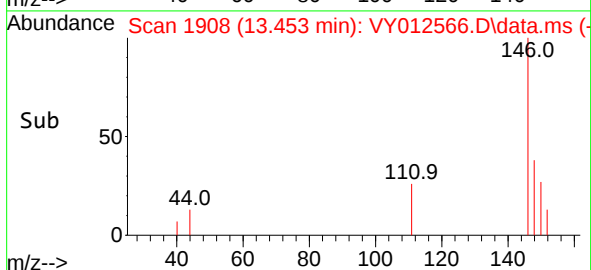
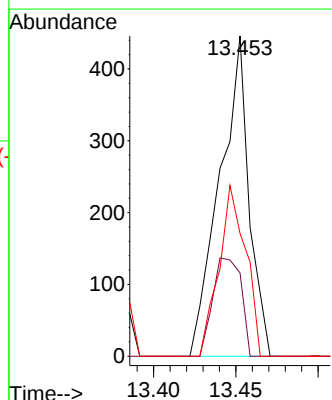
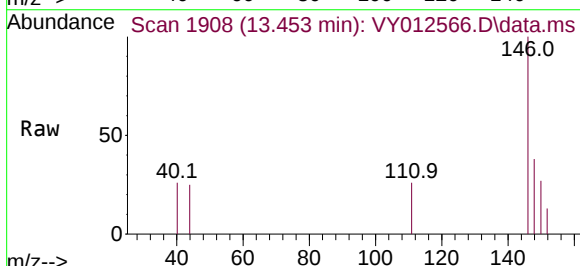
Tgt Ion:146 Resp: 551

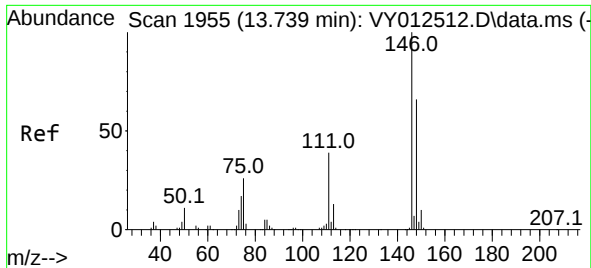
Ion Ratio Lower Upper

146 100

111 29.8 18.4 55.2

148 48.8 31.6 95.0





#91

1,2-Dichlorobenzene

Concen: 8.011 ug/l

RT: 13.745 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VY012566.D

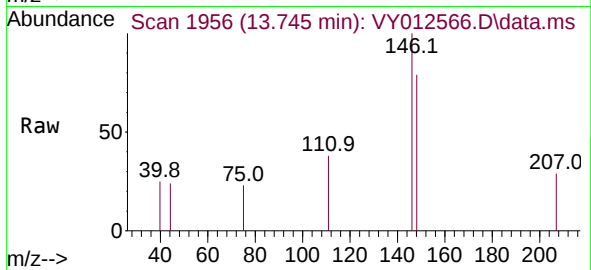
Acq: 09 Feb 2023 16:55

Instrument :

MSVOA_Y

ClientSampleId :

ETGI-330RE



Tgt Ion:	146	Resp:	444
Ion	Ratio	Lower	Upper
146	100		
111	34.2	19.7	59.1
148	74.3	32.0	96.0

