

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042823\
 Data File : VY013528.D
 Acq On : 28 Apr 2023 16:32
 Operator : KP/MD
 Sample : 02386-06RE
 Misc : 3.80g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SPA-2WC-23-04

Quant Time: Apr 28 23:14:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:39:58 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.789	168	212355	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	362392	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	317853	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	118126	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	139166	59.782	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.560%			
35) Dibromofluoromethane	7.716	113	116559	51.139	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.280%			
50) Toluene-d8	10.179	98	452443	55.800	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 111.600%			
62) 4-Bromofluorobenzene	12.483	95	148142	54.195	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 108.380%			
Target Compounds					Qvalue	
31) Cyclohexane	7.777	56	15800	3.791	ug/l #	69
39) Methylcyclohexane	9.185	83	78055	17.503	ug/l	95
40) Benzene	8.161	78	14301	1.342	ug/l	96
65) Chlorobenzene	11.514	112	116727	16.858	ug/l	99
67) Ethyl Benzene	11.593	91	309413	25.448	ug/l	99
68) m/p-Xylenes	11.709	106	92272	19.963	ug/l	92
69) o-Xylene	12.032	106	103391	23.652	ug/l	90
73) Isopropylbenzene	12.331	105	72116	8.072	ug/l	96
78) n-propylbenzene	12.672	91	109851	9.982	ug/l	98
79) 2-Chlorotoluene	12.758	91	40521	6.594	ug/l	75
80) 1,3,5-Trimethylbenzene	12.813	105	11413	1.565	ug/l	96
83) tert-Butylbenzene	13.075	119	70525	11.163	ug/l	91
84) 1,2,4-Trimethylbenzene	13.123	105	356748	50.317	ug/l	100
86) p-Isopropyltoluene	13.373	119	40874	5.360	ug/l	90
87) 1,3-Dichlorobenzene	13.367	146	352364	85.432	ug/l	92
88) 1,4-Dichlorobenzene	13.447	146	701409	168.350	ug/l	96
89) n-Butylbenzene	13.697	91	65130	8.751	ug/l #	67
91) 1,2-Dichlorobenzene	13.739	146	379957	102.015	ug/l	90
93) 1,2,4-Trichlorobenzene	15.007	180	87012	39.184	ug/l #	86
94) Hexachlorobutadiene	15.111	225	4612	3.569	ug/l	98
96) 1,2,3-Trichlorobenzene	15.428	180	25760	13.015	ug/l #	74

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

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QLast Update : Tue Apr 25 02:39:58 2023
Response via : Initial Calibration

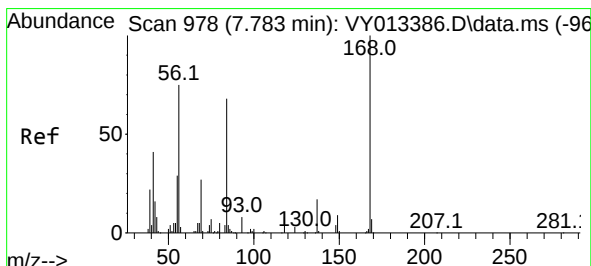
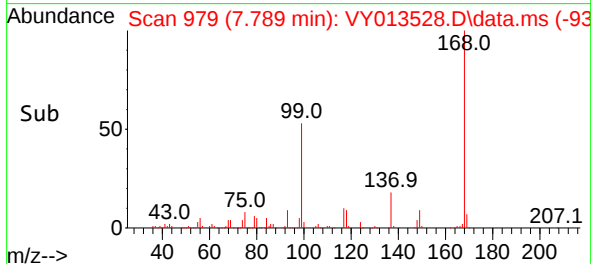
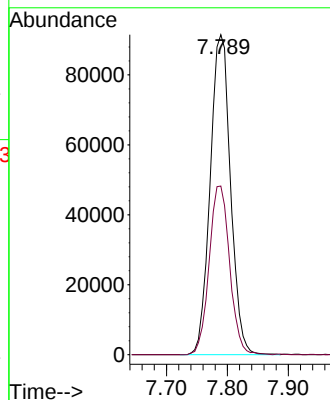
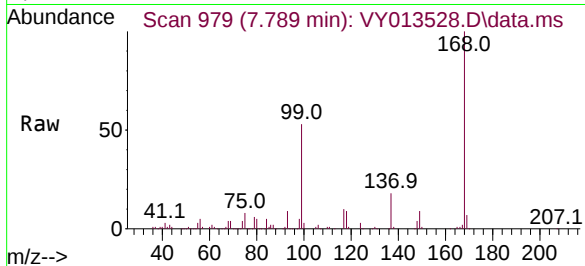




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

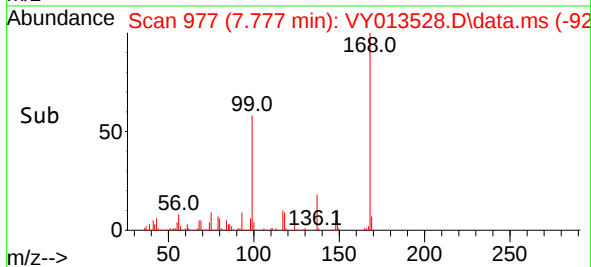
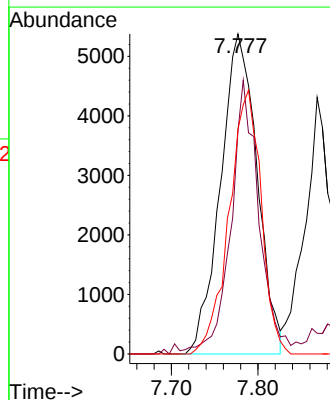
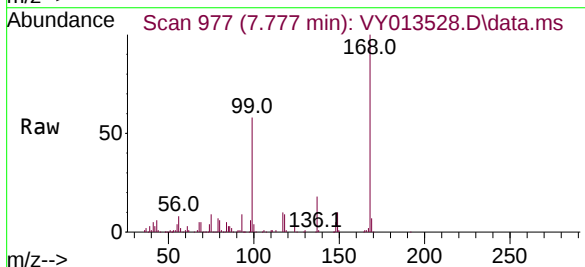
Instrument :
MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

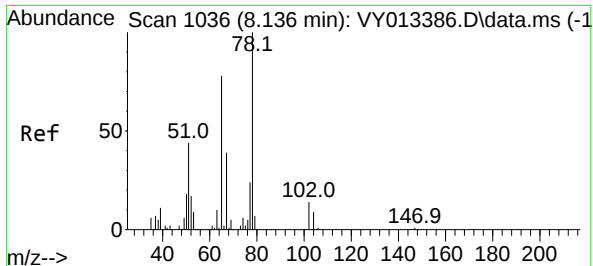
Tgt Ion:168 Resp: 212355
Ion Ratio Lower Upper
168 100
99 52.7 41.8 62.6



#31
Cyclohexane
Concen: 3.791 ug/l
RT: 7.777 min Scan# 977
Delta R.T. -0.006 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

Tgt Ion: 56 Resp: 15800
Ion Ratio Lower Upper
56 100
69 68.6 29.2 43.8#
84 70.2 73.0 109.6#





#33

1,2-Dichloroethane-d4

Concen: 59.782 ug/l

RT: 8.137 min Scan# 1103

Delta R.T. 0.001 min

Lab File: VY013528.D

Acq: 28 Apr 2023 16:32

Instrument :

MSVOA_Y

ClientSampleId :

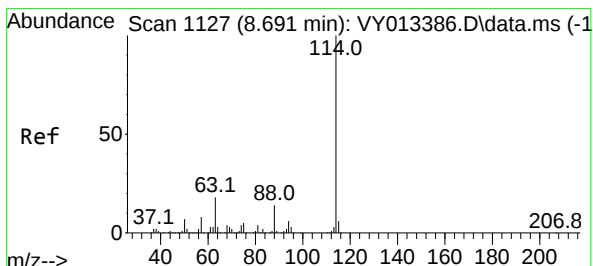
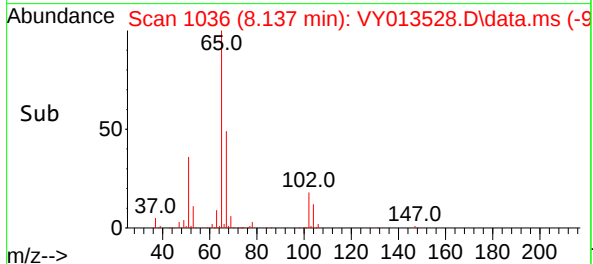
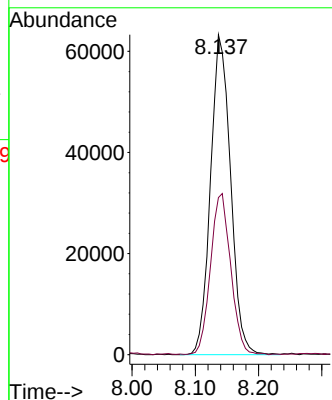
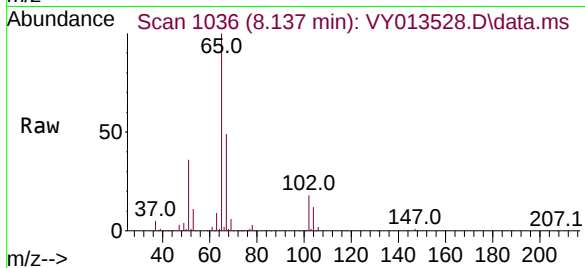
SPA-2WC-23-04

Tgt Ion: 65 Resp: 139166

Ion Ratio Lower Upper

65 100

67 50.8 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY013528.D

Acq: 28 Apr 2023 16:32

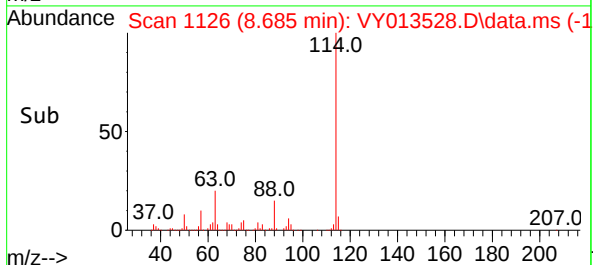
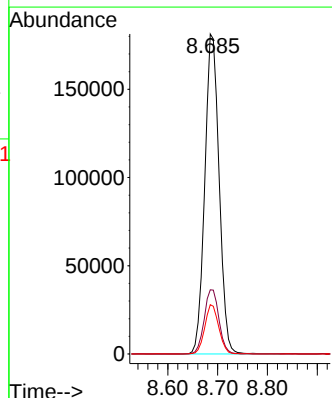
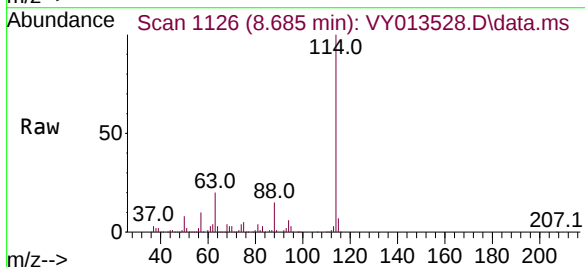
Tgt Ion: 114 Resp: 362392

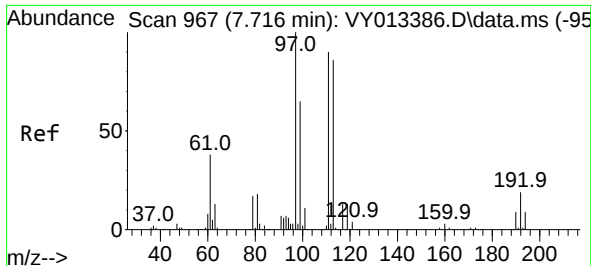
Ion Ratio Lower Upper

114 100

63 20.0 0.0 36.6

88 15.4 0.0 28.8

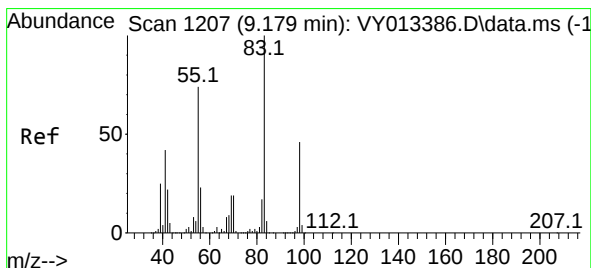
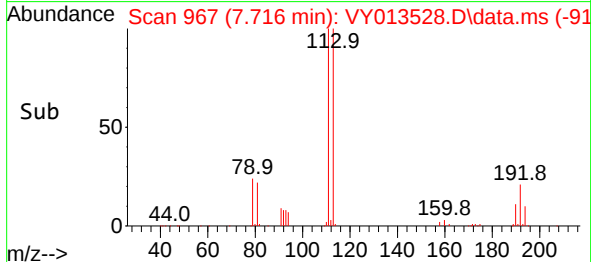
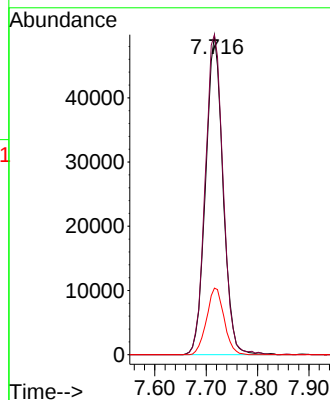
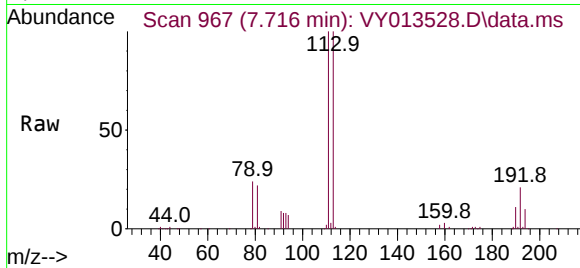




#35
Dibromofluoromethane
Concen: 51.139 ug/l
RT: 7.716 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

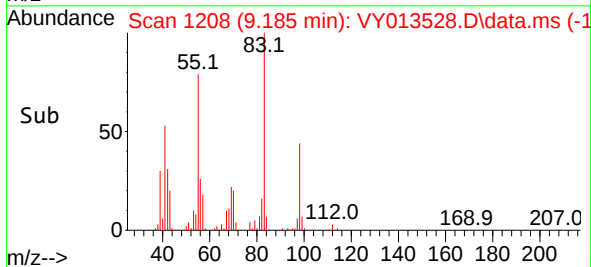
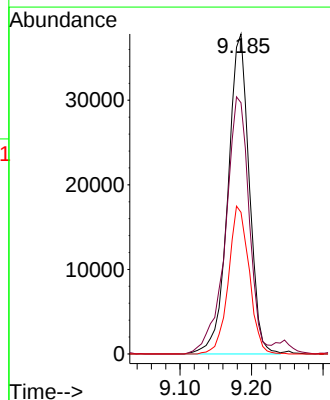
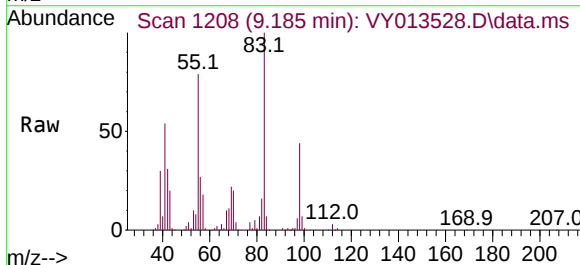
Instrument :
MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

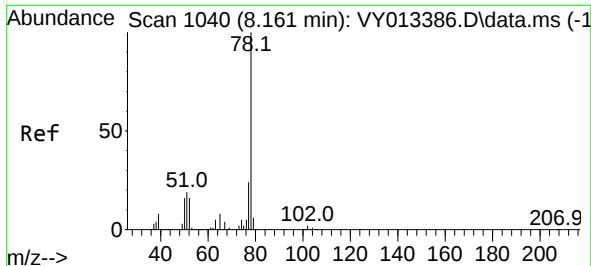
Tgt Ion:113 Resp: 116559
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.2
192 21.1 16.7 25.1



#39
Methylcyclohexane
Concen: 17.503 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. 0.006 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

Tgt Ion: 83 Resp: 78055
Ion Ratio Lower Upper
83 100
55 78.5 59.0 88.4
98 44.3 37.0 55.4

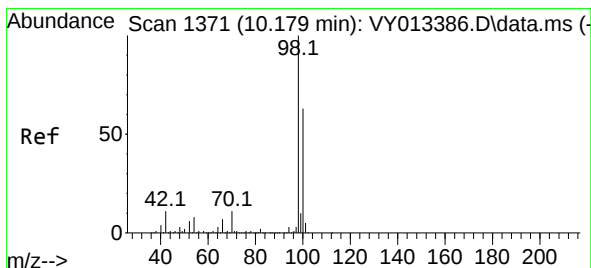
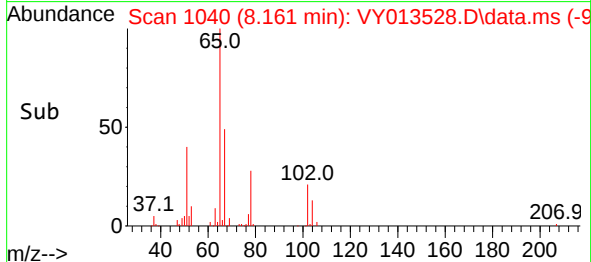
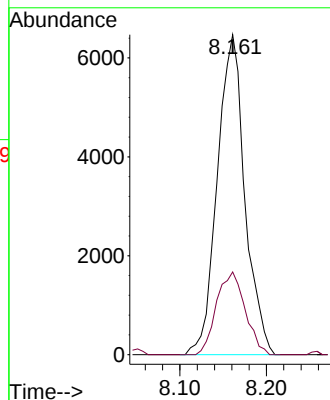
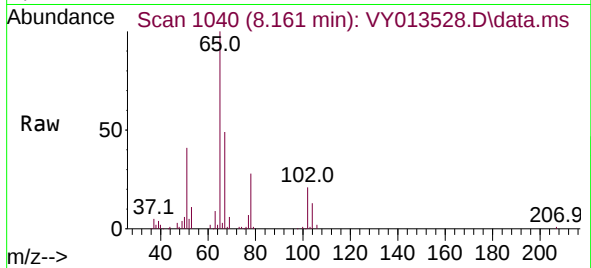




#40
Benzene
Concen: 1.342 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

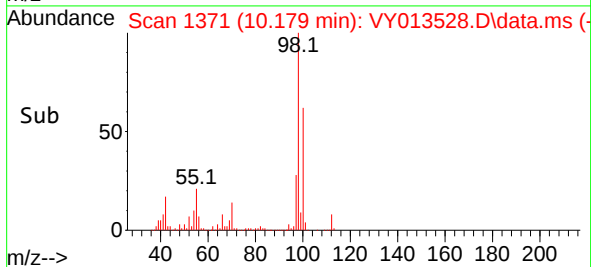
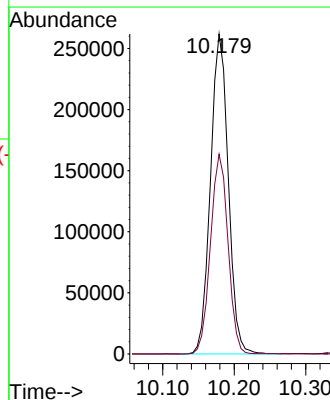
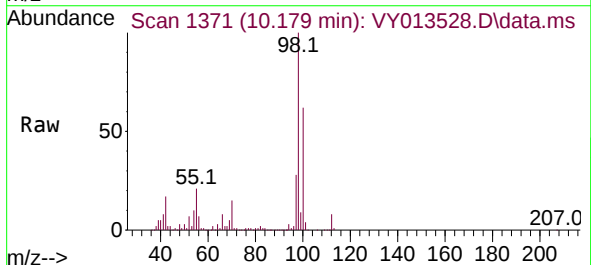
Instrument :
MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

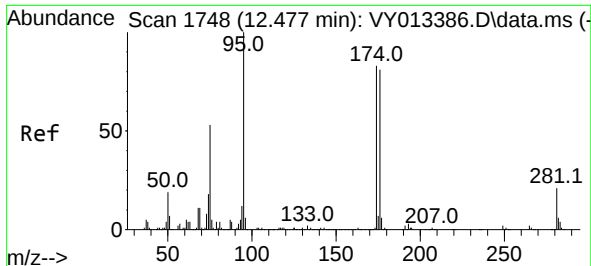
Tgt Ion: 78 Resp: 14301
Ion Ratio Lower Upper
78 100
77 25.9 19.2 28.8



#50
Toluene-d8
Concen: 55.800 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

Tgt Ion: 98 Resp: 452443
Ion Ratio Lower Upper
98 100
100 61.5 50.5 75.7





#62

4-Bromofluorobenzene

Concen: 54.195 ug/l

RT: 12.483 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY013528.D

Acq: 28 Apr 2023 16:32

Instrument :

MSVOA_Y

ClientSampleId :

SPA-2WC-23-04

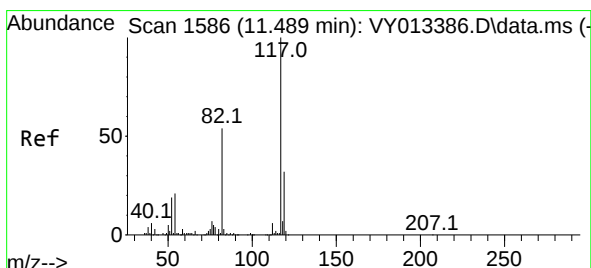
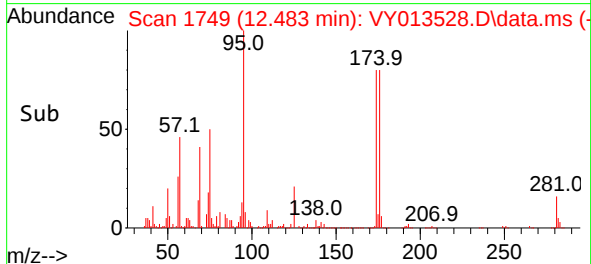
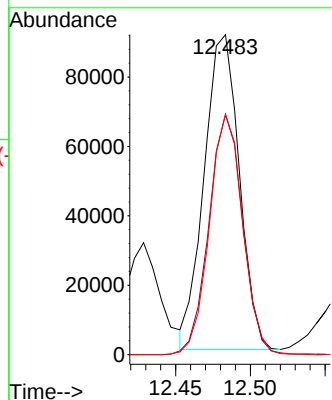
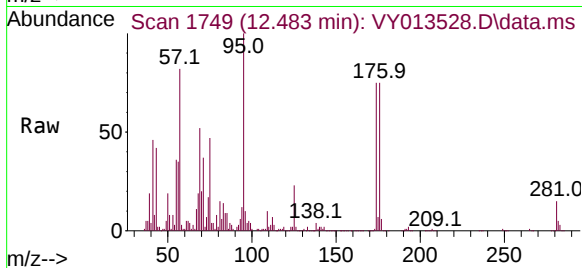
Tgt Ion: 95 Resp: 148142

Ion Ratio Lower Upper

95 100

174 73.3 0.0 182.0

176 72.3 0.0 175.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 1586

Delta R.T. 0.001 min

Lab File: VY013528.D

Acq: 28 Apr 2023 16:32

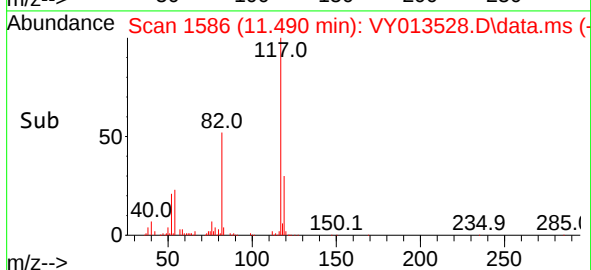
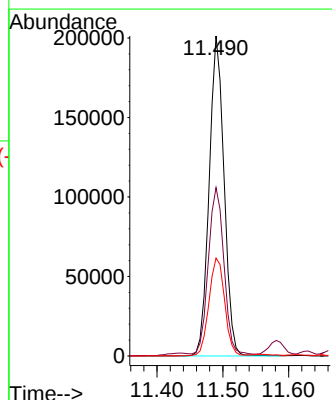
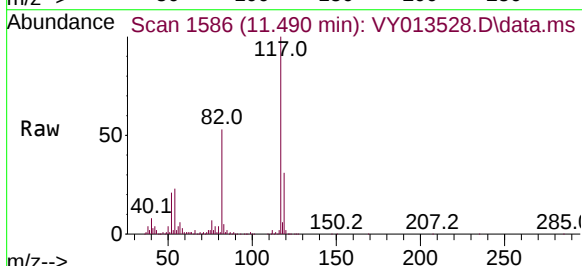
Tgt Ion: 117 Resp: 317853

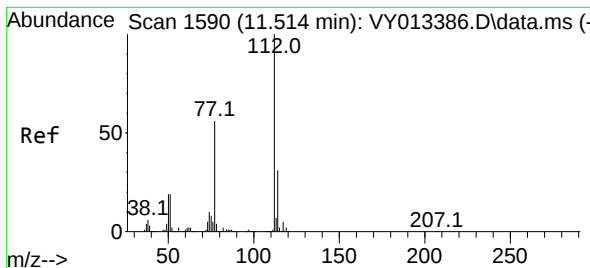
Ion Ratio Lower Upper

117 100

82 51.7 43.0 64.6

119 30.5 25.5 38.3





#65

Chlorobenzene

Concen: 16.858 ug/l

RT: 11.514 min Scan# 11590

Delta R.T. 0.000 min

Lab File: VY013528.D

Acq: 28 Apr 2023 16:32

Instrument :

MSVOA_Y

ClientSampleId :

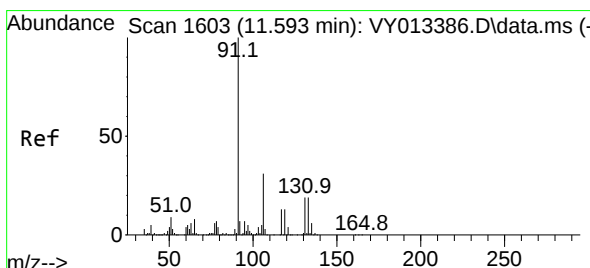
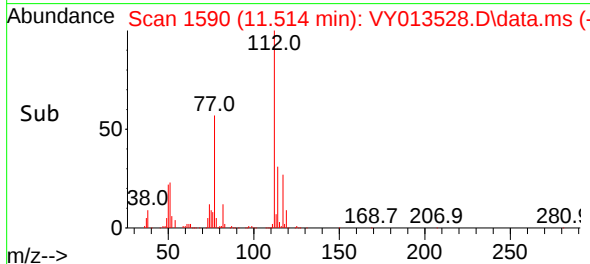
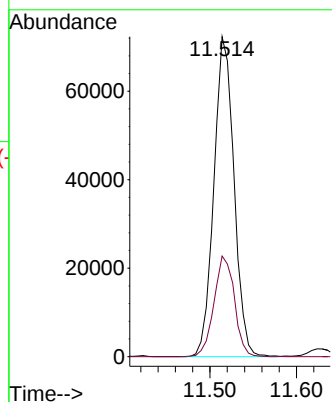
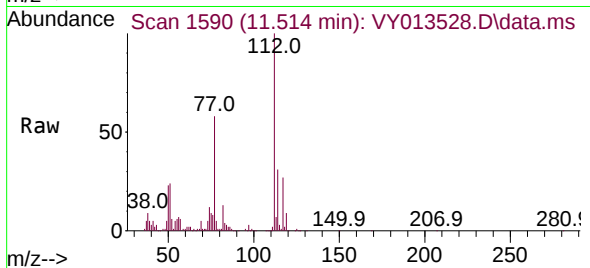
SPA-2WC-23-04

Tgt Ion:112 Resp: 116727

Ion Ratio Lower Upper

112 100

114 31.4 24.9 37.3



#67

Ethyl Benzene

Concen: 25.448 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.000 min

Lab File: VY013528.D

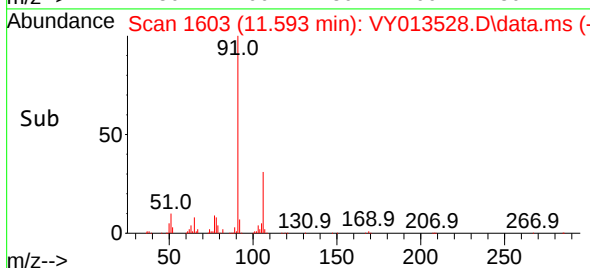
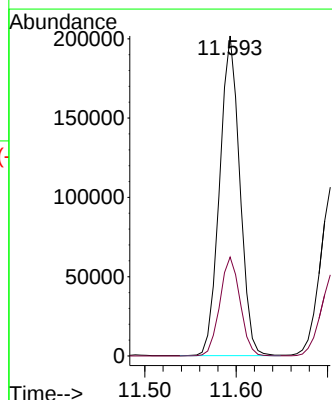
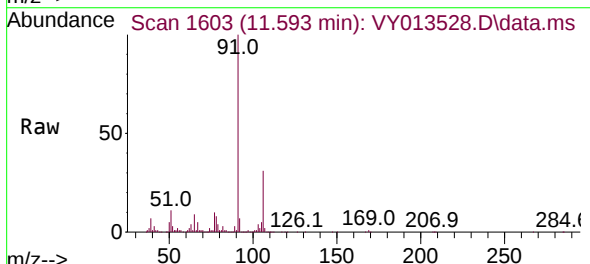
Acq: 28 Apr 2023 16:32

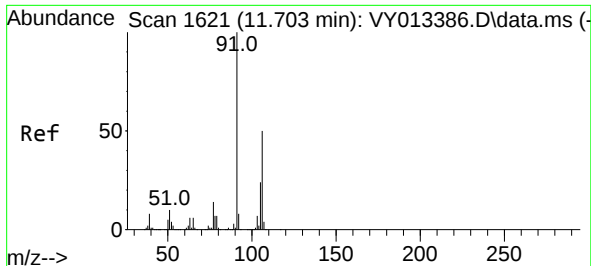
Tgt Ion: 91 Resp: 309413

Ion Ratio Lower Upper

91 100

106 30.9 25.1 37.7

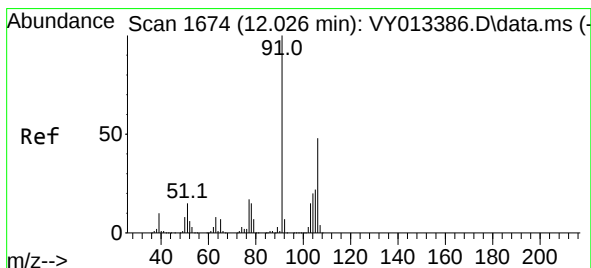
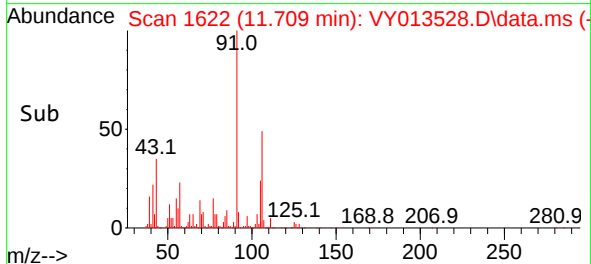
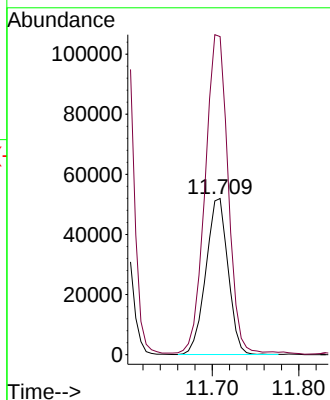
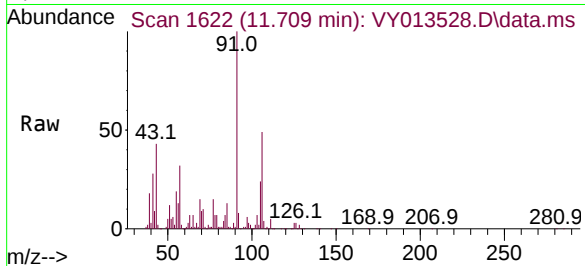




#68
m/p-Xylenes
Concen: 19.963 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

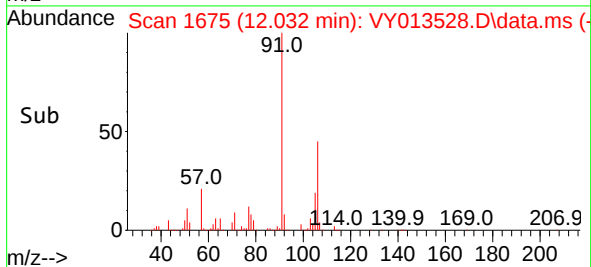
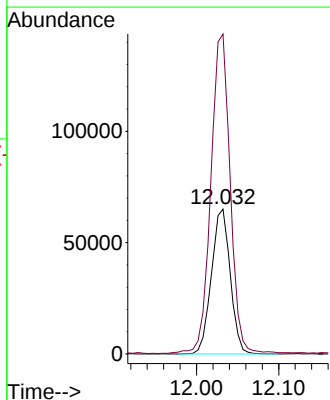
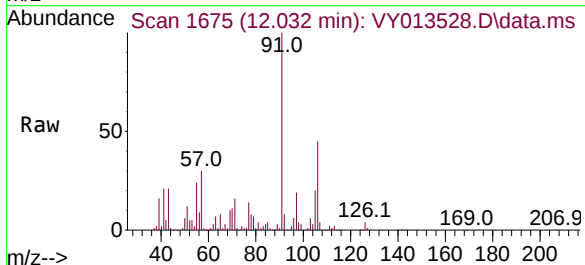
Instrument :
MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

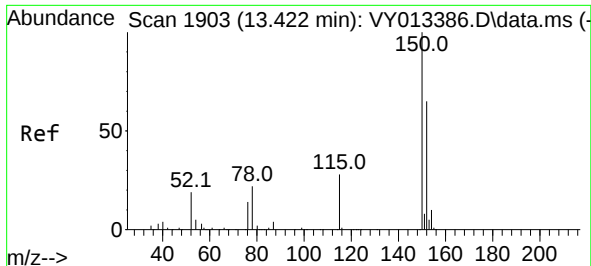
Tgt Ion:106 Resp: 92272
Ion Ratio Lower Upper
106 100
91 213.9 160.9 241.3



#69
o-Xylene
Concen: 23.652 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

Tgt Ion:106 Resp: 103391
Ion Ratio Lower Upper
106 100
91 227.0 105.5 316.4

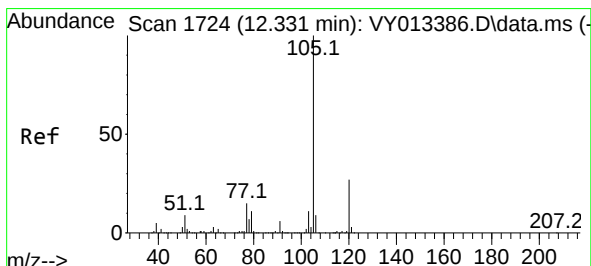
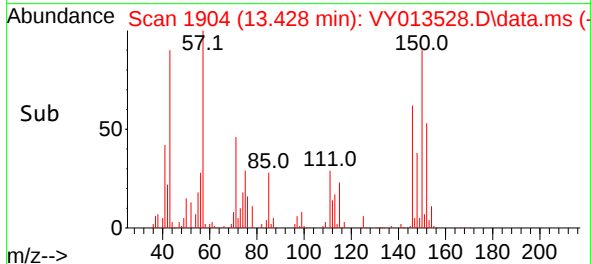
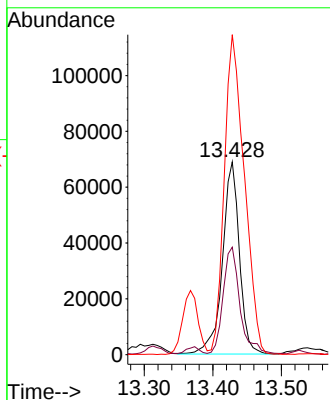
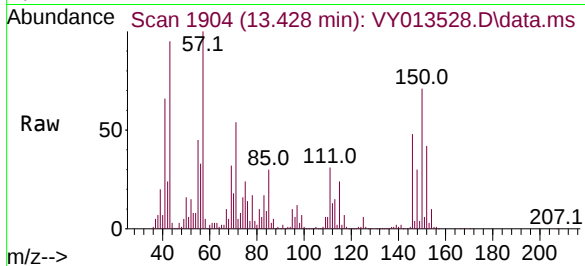




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1903
Delta R.T. 0.006 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

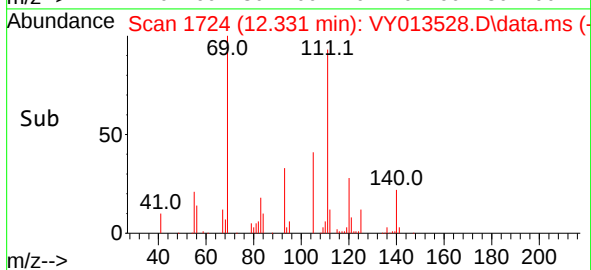
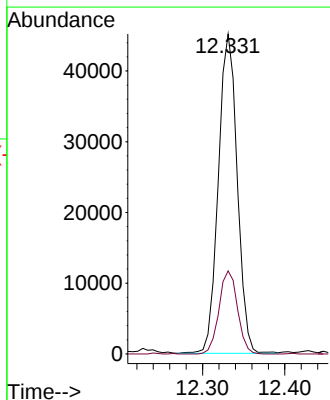
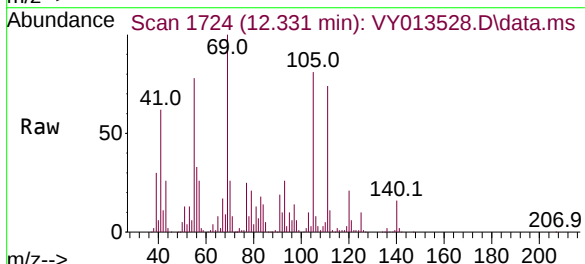
Instrument :
MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

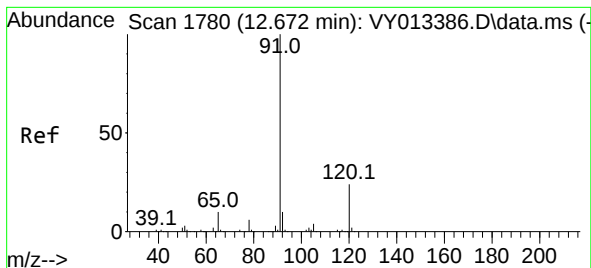
Tgt Ion:152 Resp: 118126
Ion Ratio Lower Upper
152 100
115 54.9 28.1 84.2
150 196.9 0.0 352.0



#73
Isopropylbenzene
Concen: 8.072 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. -0.000 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

Tgt Ion:105 Resp: 72116
Ion Ratio Lower Upper
105 100
120 25.5 13.7 41.0





#78

n-propylbenzene

Concen: 9.982 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. 0.000 min

Lab File: VY013528.D

Acq: 28 Apr 2023 16:32

Instrument :

MSVOA_Y

ClientSampleId :

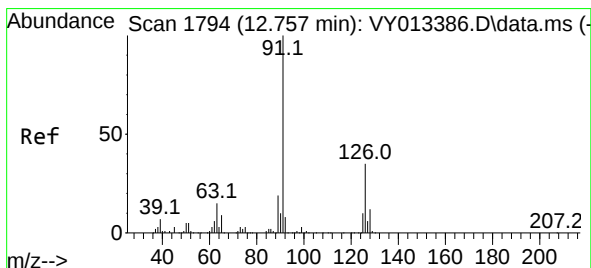
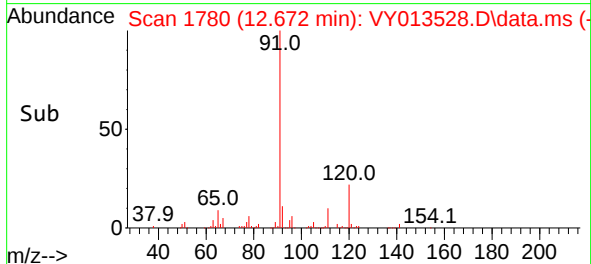
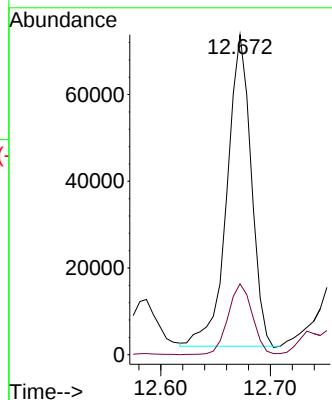
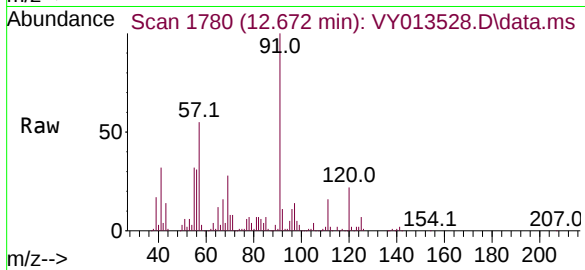
SPA-2WC-23-04

Tgt Ion: 91 Resp: 109851

Ion Ratio Lower Upper

91 100

120 22.9 11.9 35.9



#79

2-Chlorotoluene

Concen: 6.594 ug/l

RT: 12.758 min Scan# 1794

Delta R.T. 0.001 min

Lab File: VY013528.D

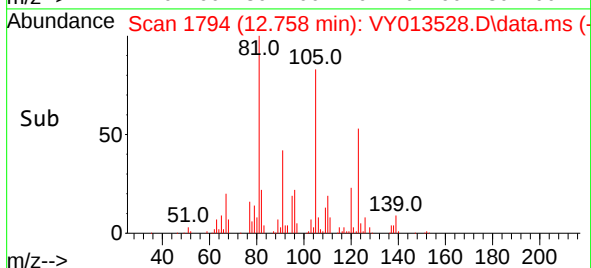
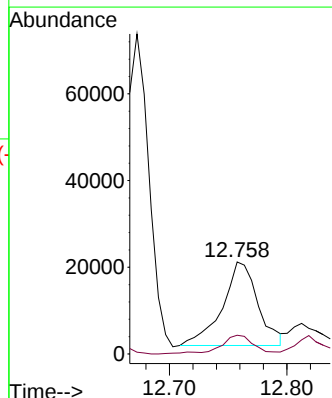
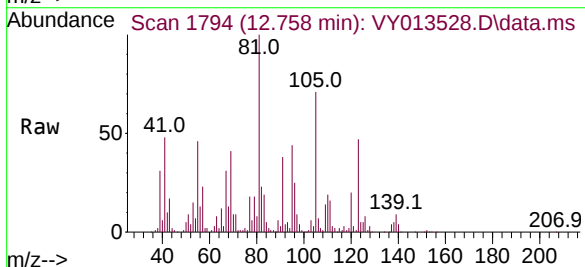
Acq: 28 Apr 2023 16:32

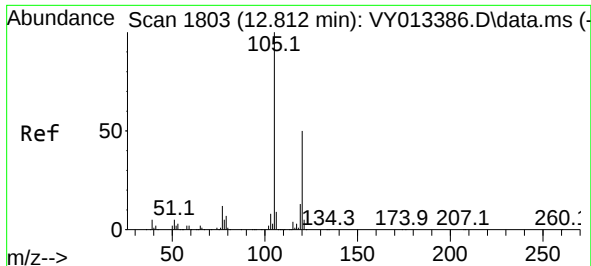
Tgt Ion: 91 Resp: 40521

Ion Ratio Lower Upper

91 100

126 21.0 17.8 53.4

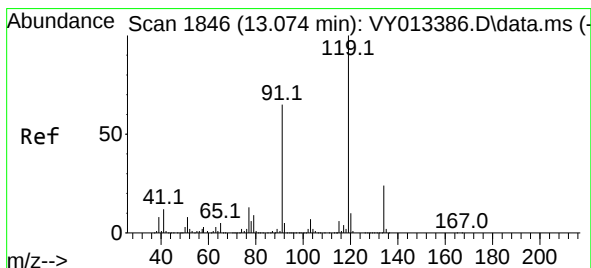
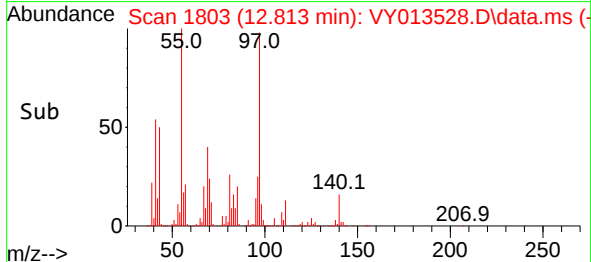
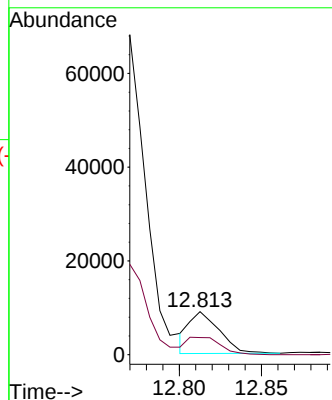
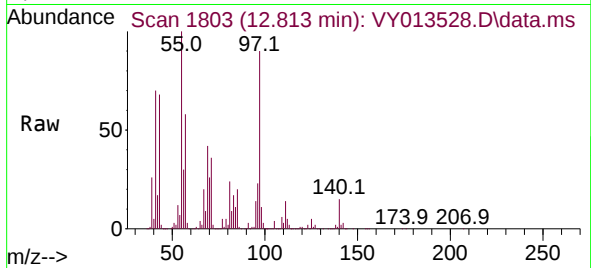




#80
1,3,5-Trimethylbenzene
Concen: 1.565 ug/l
RT: 12.813 min Scan# 1803
Delta R.T. 0.001 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

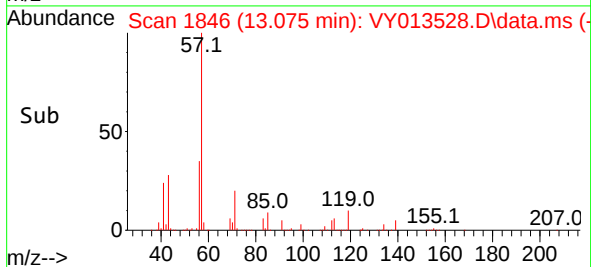
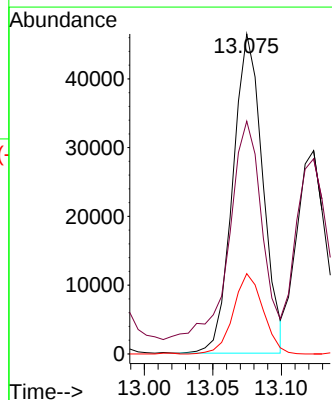
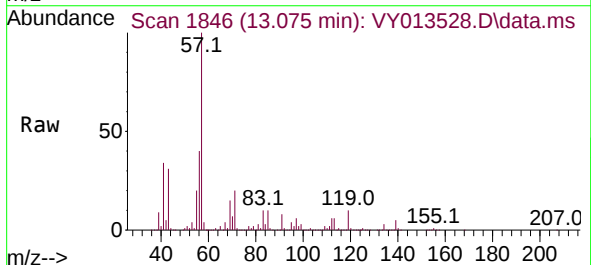
Instrument :
MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

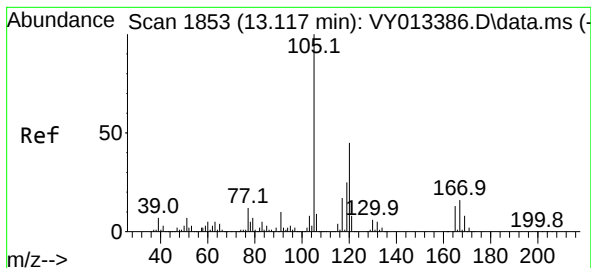
Tgt Ion:105 Resp: 11413
Ion Ratio Lower Upper
105 100
120 46.6 24.7 74.1



#83
tert-Butylbenzene
Concen: 11.163 ug/l
RT: 13.075 min Scan# 1846
Delta R.T. 0.001 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

Tgt Ion:119 Resp: 70525
Ion Ratio Lower Upper
119 100
91 73.6 32.2 96.6
134 25.0 13.0 38.9





#84

1,2,4-Trimethylbenzene

Concen: 50.317 ug/l

RT: 13.123 min Scan# 1853

Delta R.T. 0.006 min

Lab File: VY013528.D

Acq: 28 Apr 2023 16:32

Instrument :

MSVOA_Y

ClientSampleId :

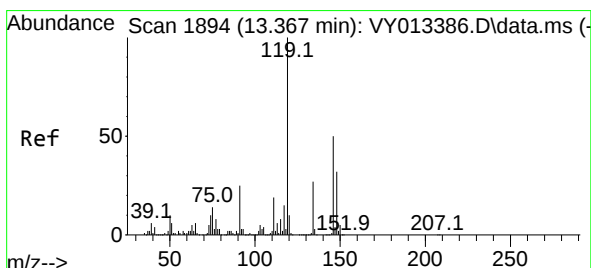
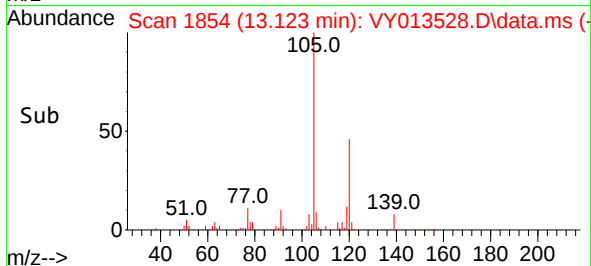
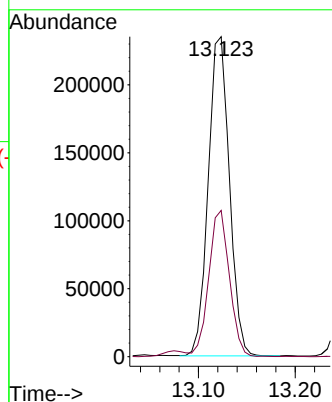
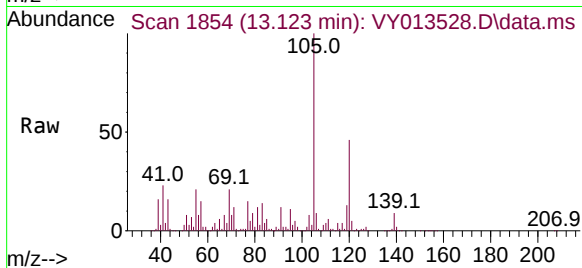
SPA-2WC-23-04

Tgt Ion:105 Resp: 356748

Ion Ratio Lower Upper

105 100

120 44.6 22.3 66.9



#86

p-Isopropyltoluene

Concen: 5.360 ug/l

RT: 13.373 min Scan# 1895

Delta R.T. 0.006 min

Lab File: VY013528.D

Acq: 28 Apr 2023 16:32

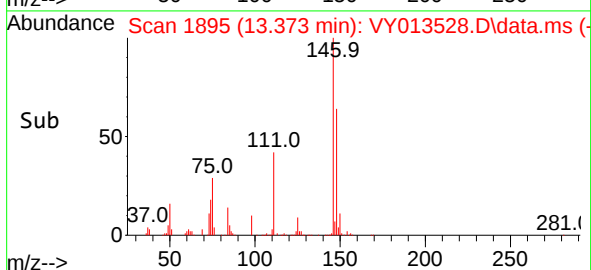
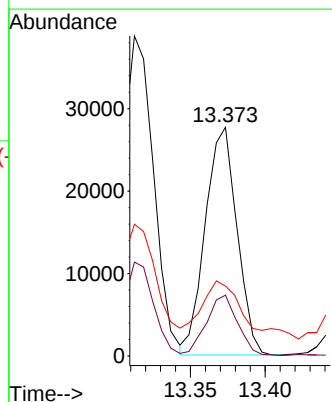
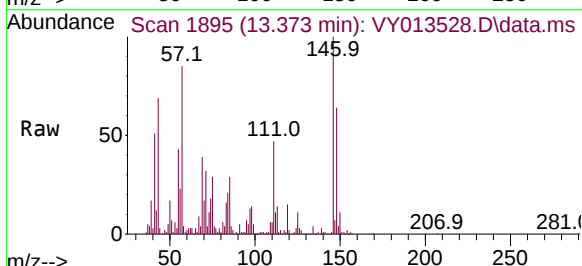
Tgt Ion:119 Resp: 40874

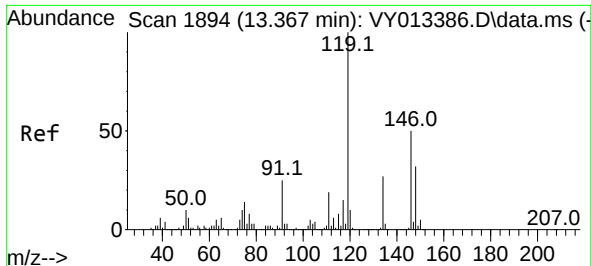
Ion Ratio Lower Upper

119 100

134 26.0 13.4 40.2

91 33.4 12.1 36.3

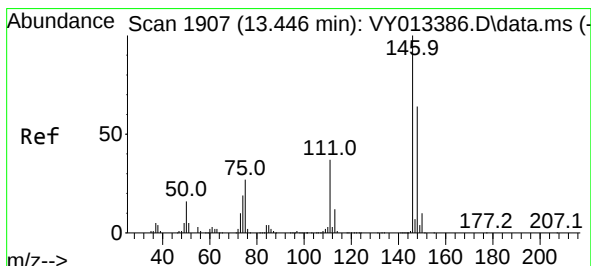
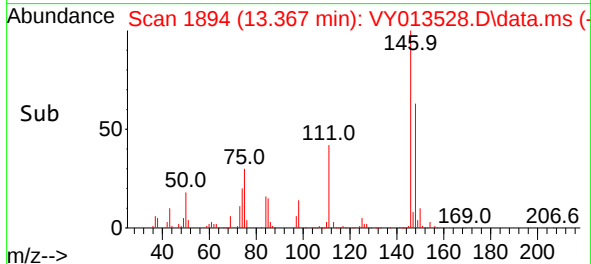
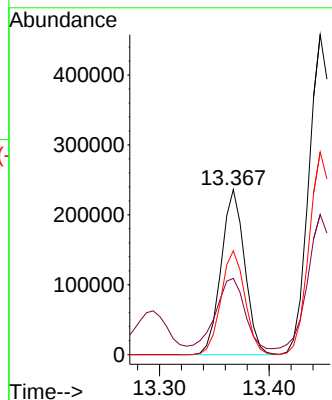
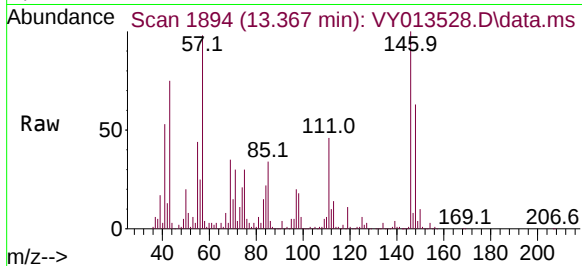




#87
1,3-Dichlorobenzene
Concen: 85.432 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

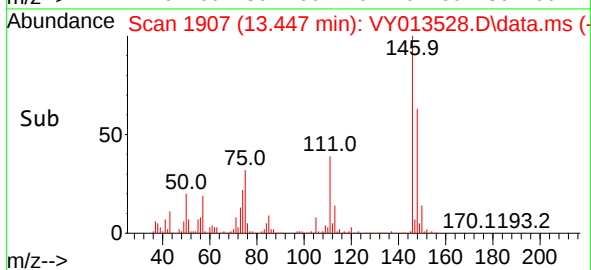
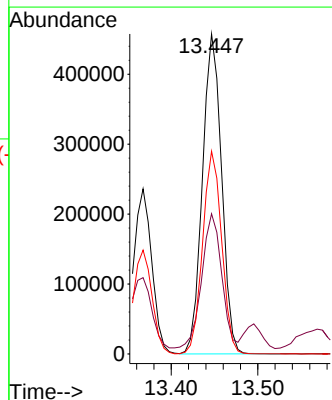
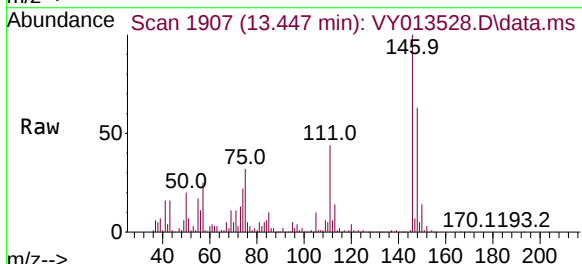
Instrument :
MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

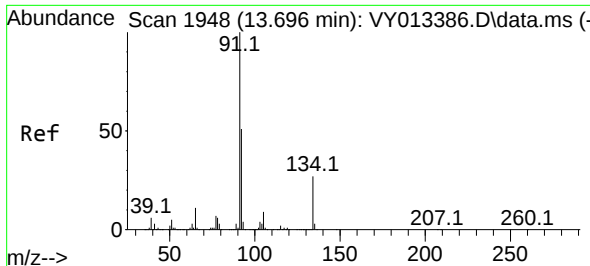
Tgt Ion:146 Resp: 352364
Ion Ratio Lower Upper
146 100
111 51.2 19.3 57.9
148 63.9 31.9 95.7



#88
1,4-Dichlorobenzene
Concen: 168.350 ug/l
RT: 13.447 min Scan# 1907
Delta R.T. 0.001 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

Tgt Ion:146 Resp: 701409
Ion Ratio Lower Upper
146 100
111 43.4 18.9 56.5
148 63.0 31.9 95.5





#89

n-Butylbenzene

Concen: 8.751 ug/l

RT: 13.697 min Scan# 1948

Delta R.T. 0.001 min

Lab File: VY013528.D

Acq: 28 Apr 2023 16:32

Instrument :

MSVOA_Y

ClientSampleId :

SPA-2WC-23-04

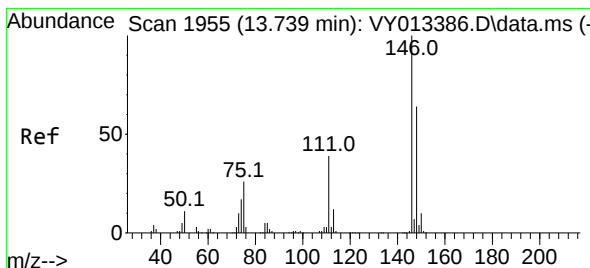
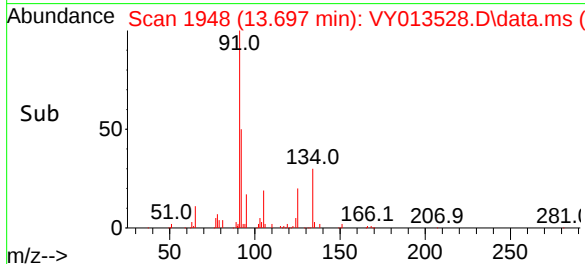
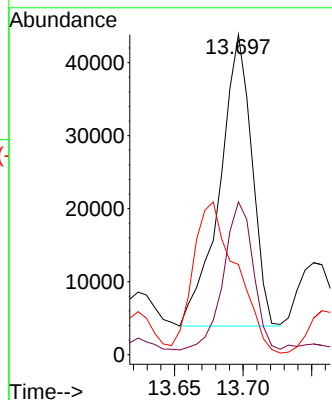
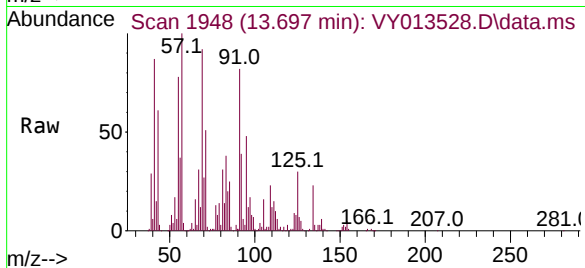
Tgt Ion: 91 Resp: 65130

Ion Ratio Lower Upper

91 100

92 46.8 25.8 77.3

134 69.5 13.5 40.4#



#91

1,2-Dichlorobenzene

Concen: 102.015 ug/l

RT: 13.739 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VY013528.D

Acq: 28 Apr 2023 16:32

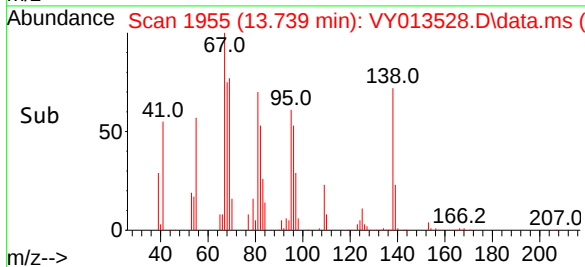
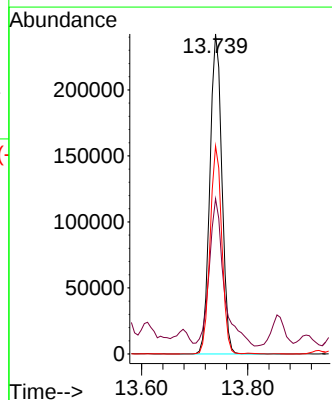
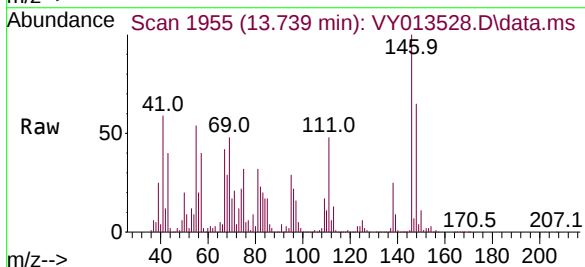
Tgt Ion:146 Resp: 379957

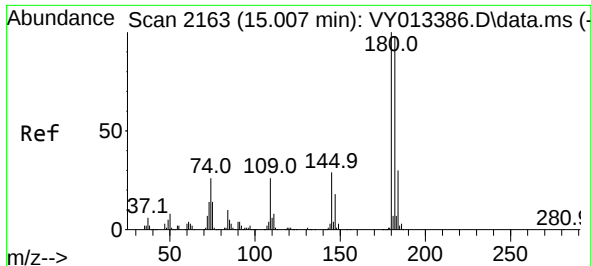
Ion Ratio Lower Upper

146 100

111 56.2 19.8 59.4

148 63.6 31.8 95.4

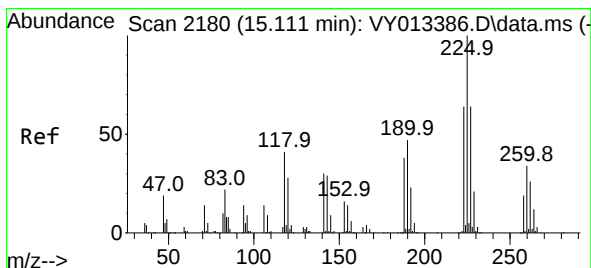
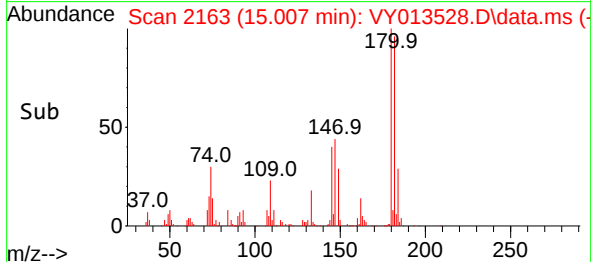
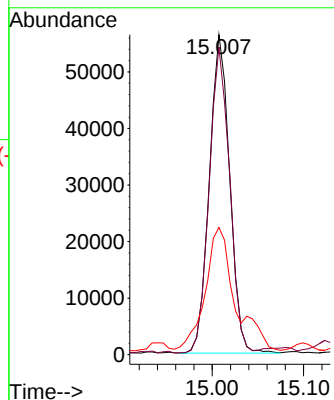
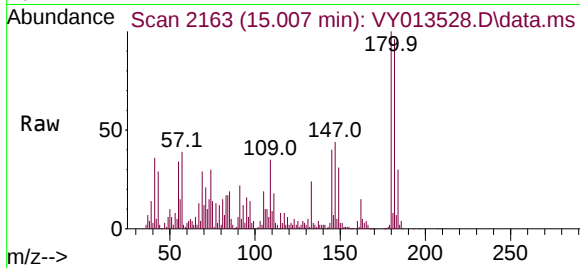




#93
1,2,4-Trichlorobenzene
Concen: 39.184 ug/l
RT: 15.007 min Scan# 2163
Delta R.T. 0.000 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

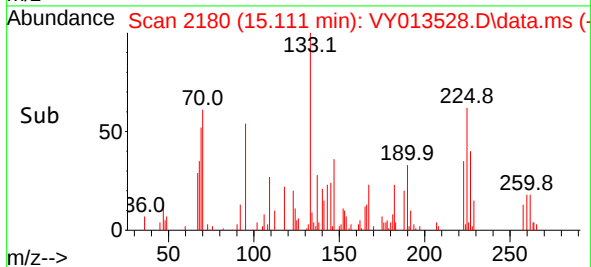
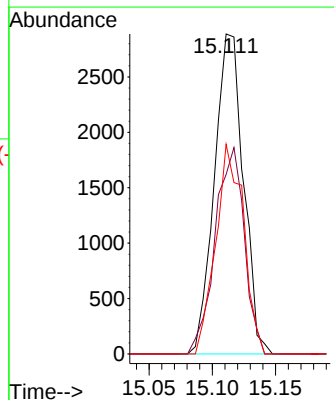
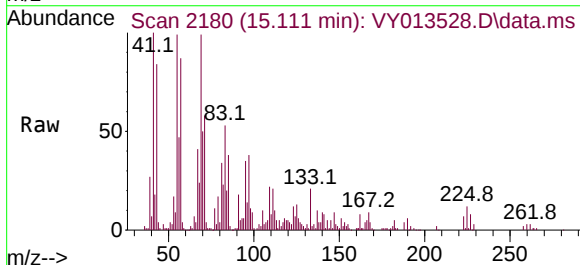
Instrument :
MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

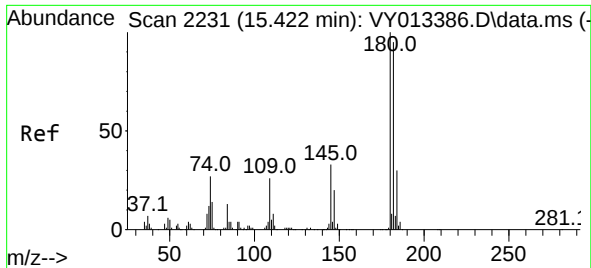
Tgt Ion:180 Resp: 87012
Ion Ratio Lower Upper
180 100
182 96.6 48.5 145.5
145 61.0 15.0 45.0#



#94
Hexachlorobutadiene
Concen: 3.569 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY013528.D
Acq: 28 Apr 2023 16:32

Tgt Ion:225 Resp: 4612
Ion Ratio Lower Upper
225 100
223 64.5 31.4 94.2
227 62.7 32.0 96.0





#96
 1,2,3-Trichlorobenzene
 Concen: 13.015 ug/l
 RT: 15.428 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY013528.D
 Acq: 28 Apr 2023 16:32

Instrument :
 MSVOA_Y
 ClientSampleId :
 SPA-2WC-23-04

Tgt Ion:180 Resp: 25760
 Ion Ratio Lower Upper
 180 100
 182 88.9 47.1 141.3
 145 80.6 15.9 47.7#

