

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042623\
 Data File : VY013466.D
 Acq On : 26 Apr 2023 12:22
 Operator : KP/MD
 Sample : 02386-06
 Misc : 4.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

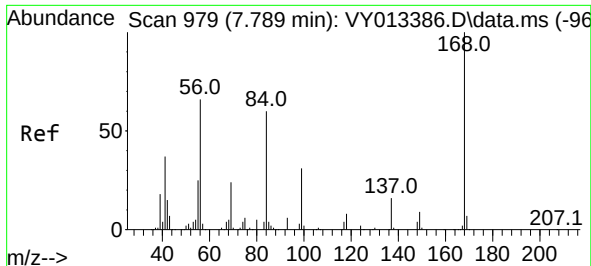
Instrument :
 MSVOA_Y
 ClientSampleId :
 SPA-2WC-23-04

Quant Time: Apr 27 01:30:34 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	165770	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	292557	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	242629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	91104	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	112927	62.143	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 124.280%			
35) Dibromofluoromethane	7.716	113	97843	53.174	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.340%			
50) Toluene-d8	10.179	98	361403	55.211	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 110.420%			
62) 4-Bromofluorobenzene	12.477	95	125171	56.722	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 113.440%			
Target Compounds					Qvalue	
39) Methylcyclohexane	9.179	83	87349	24.263	ug/l	88
40) Benzene	8.155	78	75613	8.790	ug/l	99
52) Toluene	10.240	92	9893	1.911	ug/l	99
65) Chlorobenzene	11.514	112	162656	30.775	ug/l	97
67) Ethyl Benzene	11.593	91	461321	49.705	ug/l	98
68) m/p-Xylenes	11.703	106	150818	42.746	ug/l	98
69) o-Xylene	12.026	106	150597	45.132	ug/l	93
73) Isopropylbenzene	12.331	105	105299	15.281	ug/l	98
78) n-propylbenzene	12.672	91	191139	22.520	ug/l	97
79) 2-Chlorotoluene	12.758	91	49362	10.415	ug/l #	66
80) 1,3,5-Trimethylbenzene	12.812	105	20287	3.607	ug/l	95
83) tert-Butylbenzene	13.075	119	79485	16.312	ug/l	94
84) 1,2,4-Trimethylbenzene	13.117	105	724839	132.558	ug/l	100
85) sec-Butylbenzene	13.251	105	102268	13.985	ug/l #	31
86) p-Isopropyltoluene	13.367	119	38009	6.463	ug/l	98
87) 1,3-Dichlorobenzene	13.367	146	403425	126.824	ug/l	93
88) 1,4-Dichlorobenzene	13.446	146	776953	241.793	ug/l	96
91) 1,2-Dichlorobenzene	13.739	146	529939	184.485	ug/l	92
93) 1,2,4-Trichlorobenzene	15.007	180	139292	81.333	ug/l #	89
94) Hexachlorobutadiene	15.111	225	3823	3.836	ug/l	97
96) 1,2,3-Trichlorobenzene	15.422	180	28769	18.847	ug/l #	69

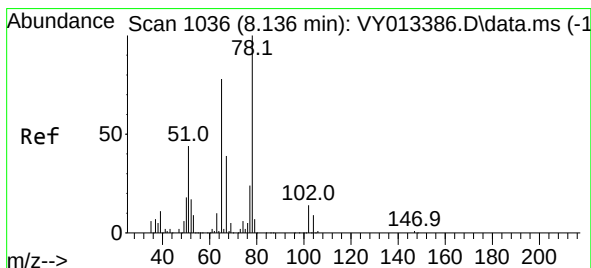
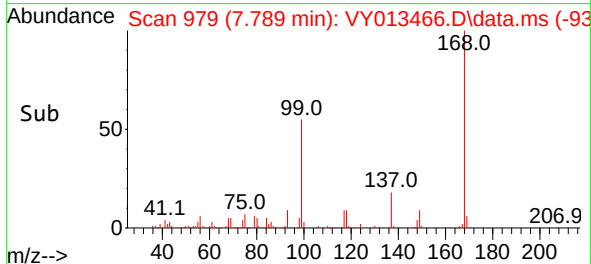
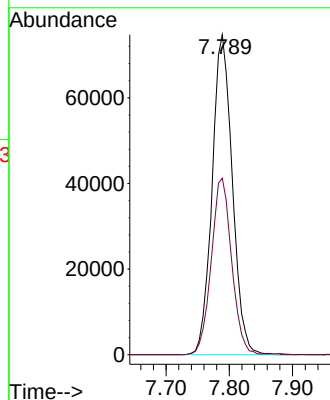
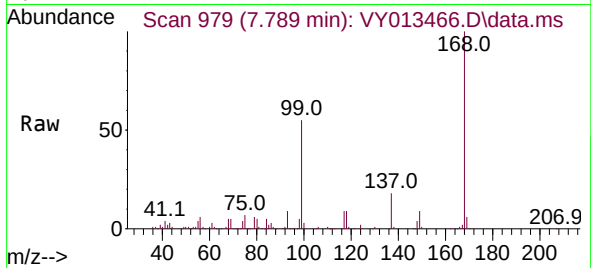
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

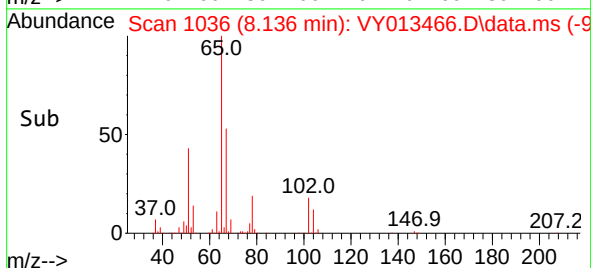
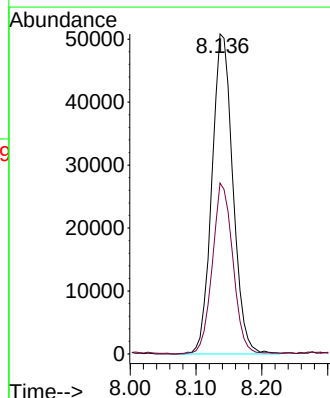
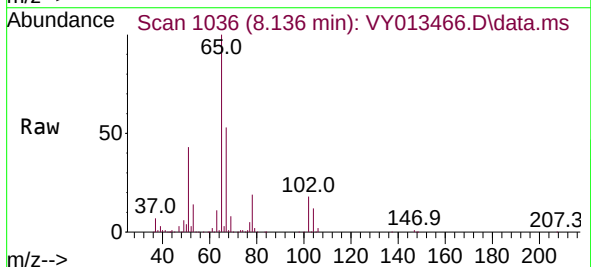
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MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

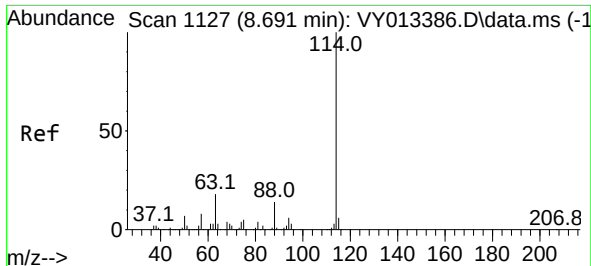
Tgt Ion:168 Resp: 165770
Ion Ratio Lower Upper
168 100
99 55.2 41.8 62.6



#33
1,2-Dichloroethane-d4
Concen: 62.143 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

Tgt Ion: 65 Resp: 112927
Ion Ratio Lower Upper
65 100
67 52.5 0.0 103.4

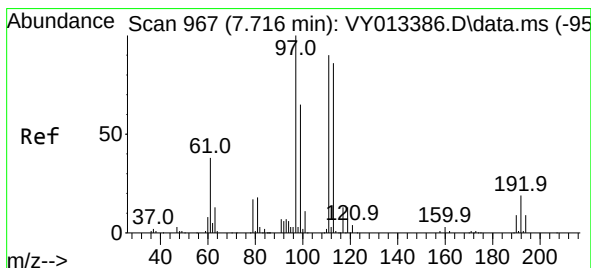
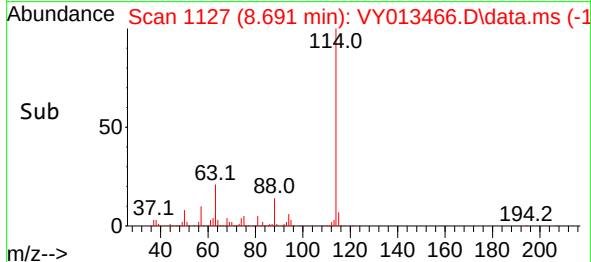
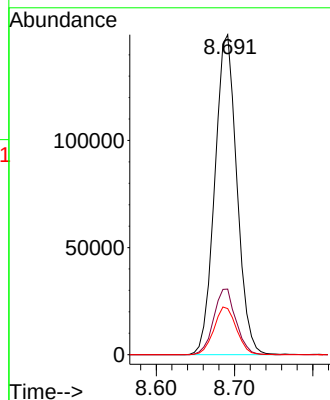
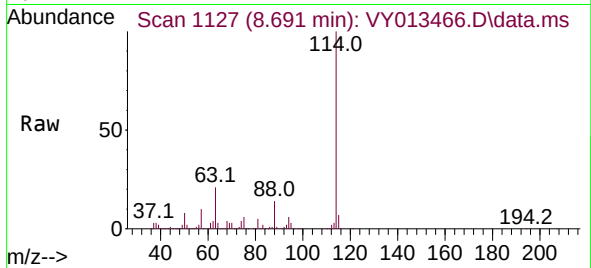




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

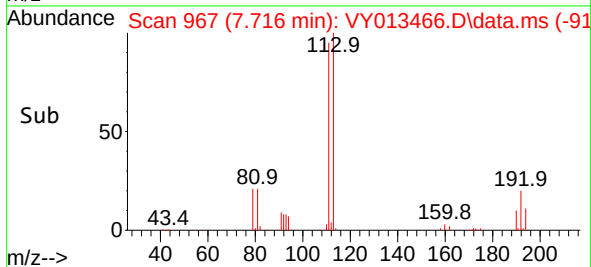
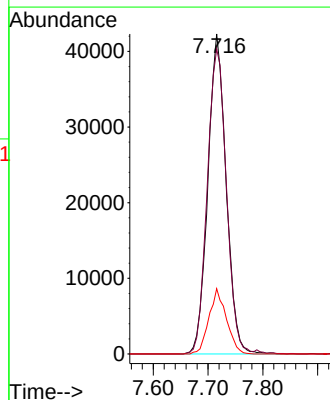
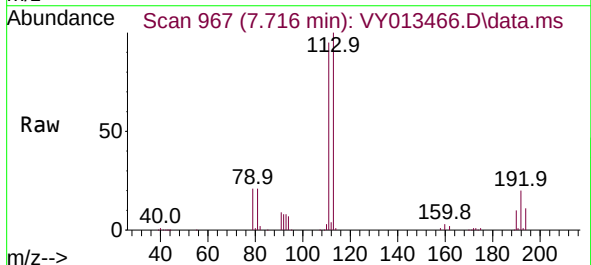
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MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

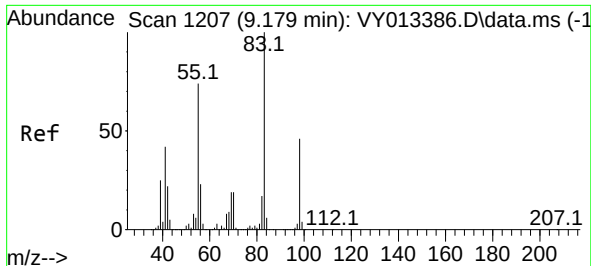
Tgt Ion:	114	Resp:	292557
Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	36.6
88	14.4	0.0	28.8



#35
Dibromofluoromethane
Concen: 53.174 ug/l
RT: 7.716 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

Tgt Ion:	113	Resp:	97843
Ion	Ratio	Lower	Upper
113	100		
111	99.6	82.2	123.2
192	19.5	16.7	25.1





#39

Methylcyclohexane

Concen: 24.263 ug/l

RT: 9.179 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY013466.D

Acq: 26 Apr 2023 12:22

Instrument :

MSVOA_Y

ClientSampleId :

SPA-2WC-23-04

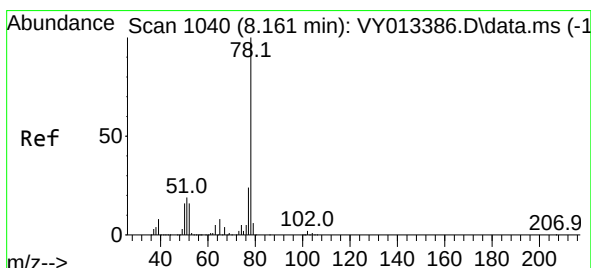
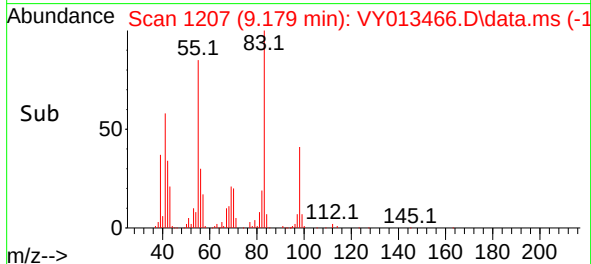
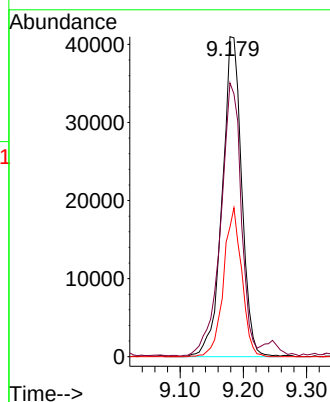
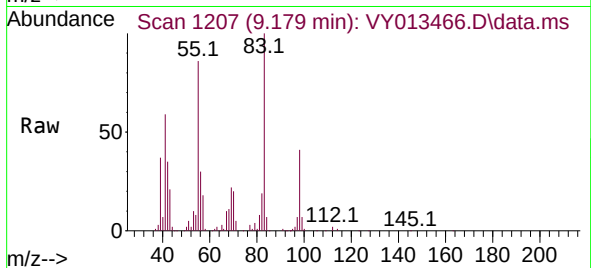
Tgt Ion: 83 Resp: 87349

Ion Ratio Lower Upper

83 100

55 85.3 59.0 88.4

98 40.5 37.0 55.4



#40

Benzene

Concen: 8.790 ug/l

RT: 8.155 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VY013466.D

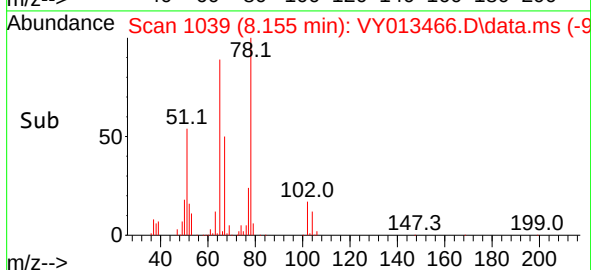
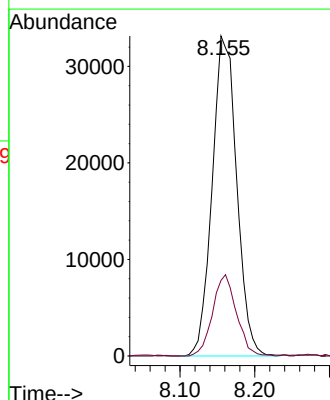
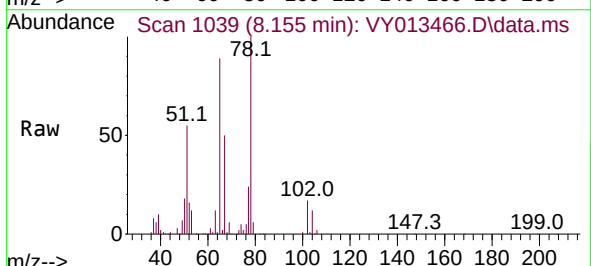
Acq: 26 Apr 2023 12:22

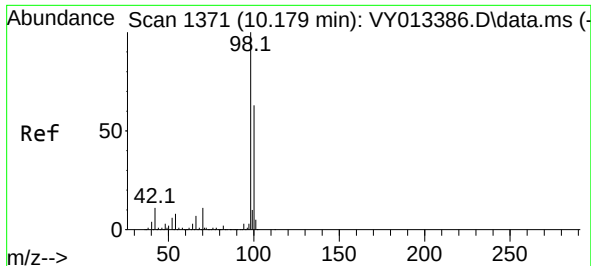
Tgt Ion: 78 Resp: 75613

Ion Ratio Lower Upper

78 100

77 23.6 19.2 28.8

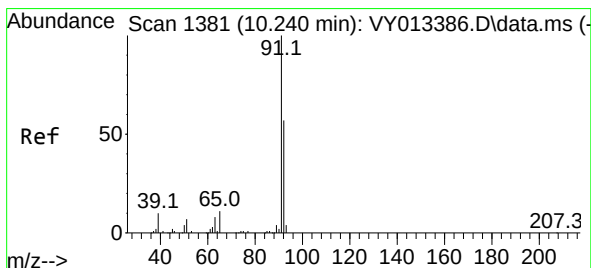
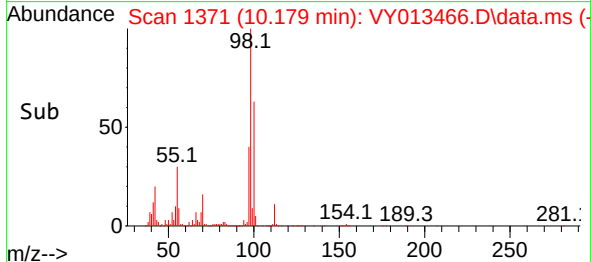
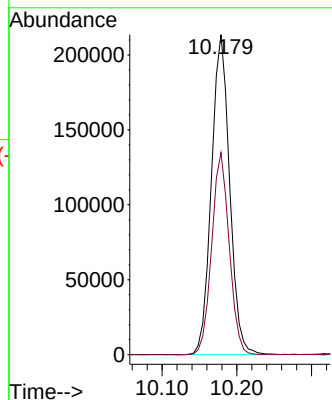
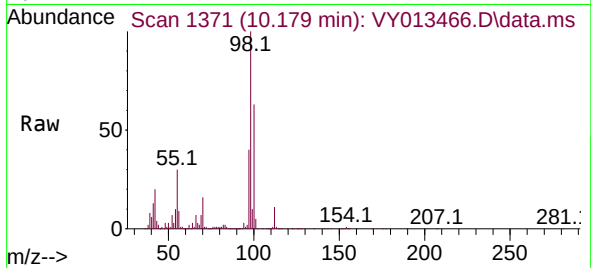




#50
Toluene-d8
Concen: 55.211 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

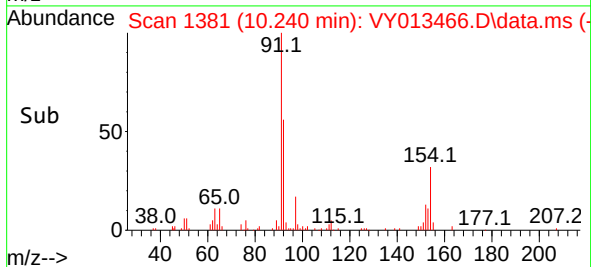
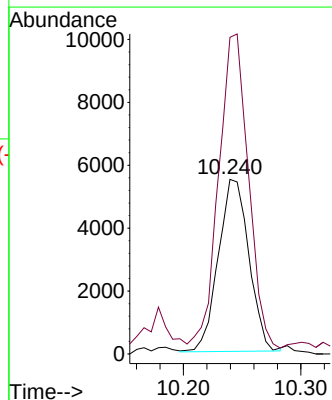
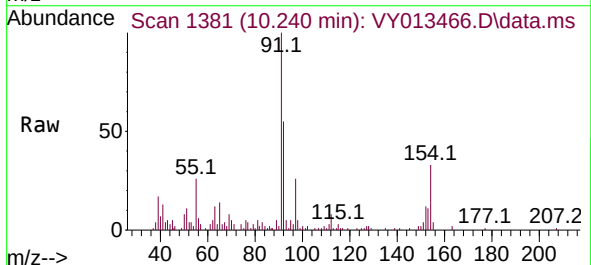
Instrument :
MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

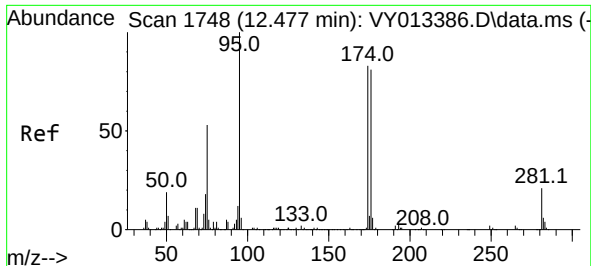
Tgt Ion: 98 Resp: 361403
Ion Ratio Lower Upper
98 100
100 60.7 50.5 75.7



#52
Toluene
Concen: 1.911 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

Tgt Ion: 92 Resp: 9893
Ion Ratio Lower Upper
92 100
91 177.1 140.2 210.4

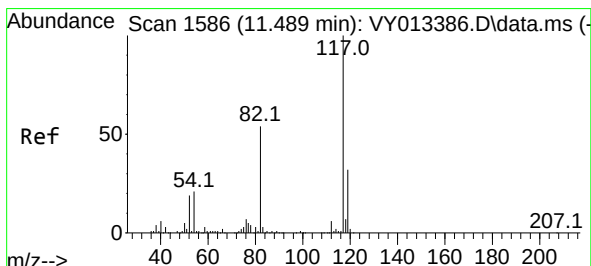
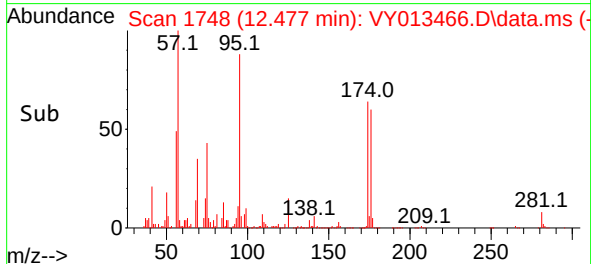
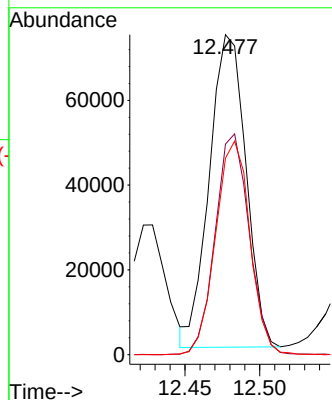
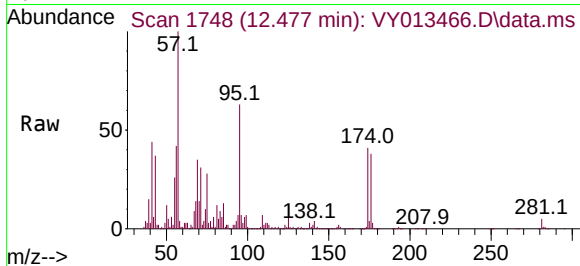




#62
4-Bromofluorobenzene
Concen: 56.722 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

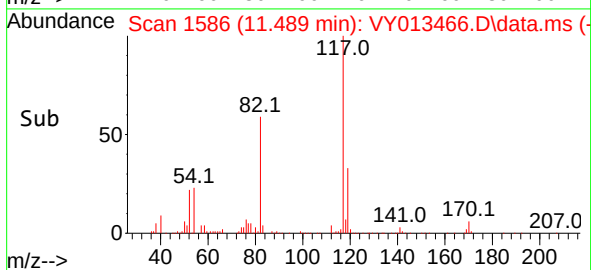
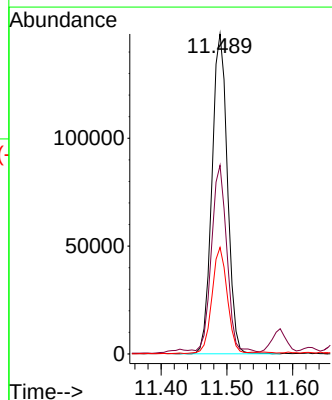
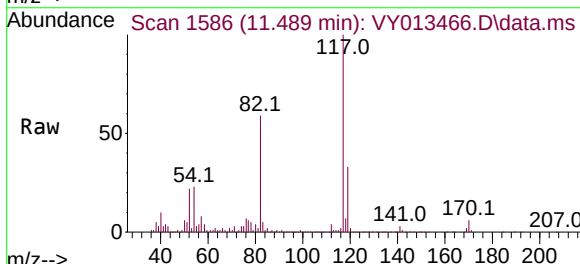
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ClientSampleId :
SPA-2WC-23-04

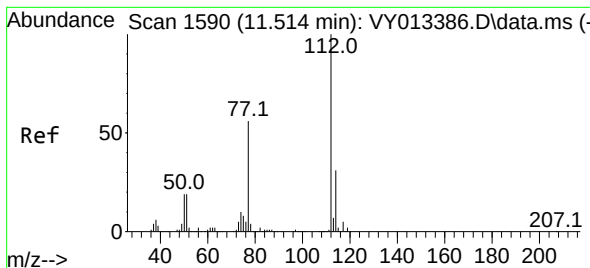
Tgt Ion: 95 Resp: 125171
Ion Ratio Lower Upper
95 100
174 66.0 0.0 182.0
176 64.4 0.0 175.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

Tgt Ion: 117 Resp: 242629
Ion Ratio Lower Upper
117 100
82 57.5 43.0 64.6
119 33.0 25.5 38.3





#65

Chlorobenzene

Concen: 30.775 ug/l

RT: 11.514 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY013466.D

Acq: 26 Apr 2023 12:22

Instrument :

MSVOA_Y

ClientSampleId :

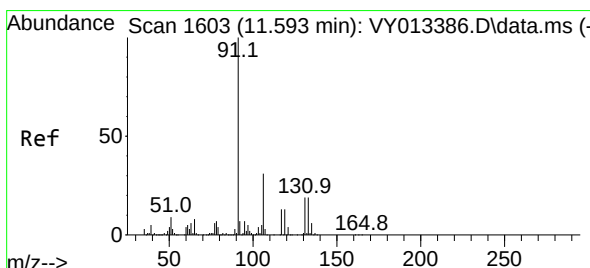
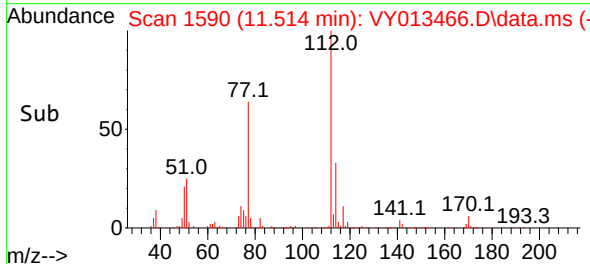
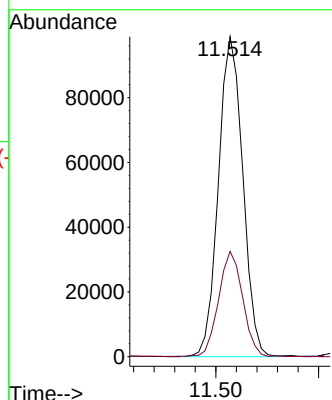
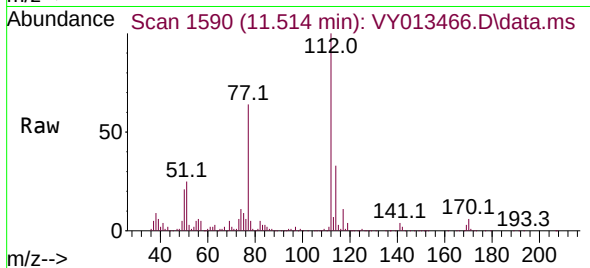
SPA-2WC-23-04

Tgt Ion:112 Resp: 162656

Ion Ratio Lower Upper

112 100

114 32.8 24.9 37.3



#67

Ethyl Benzene

Concen: 49.705 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.000 min

Lab File: VY013466.D

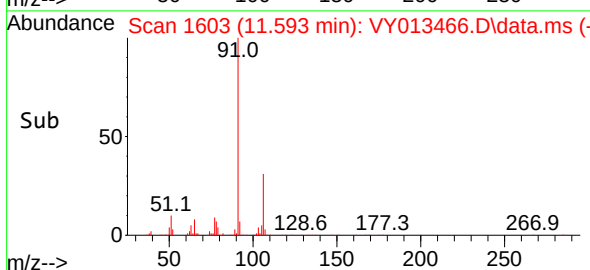
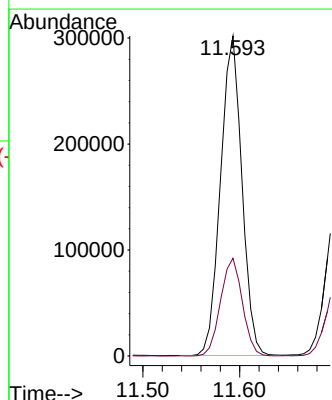
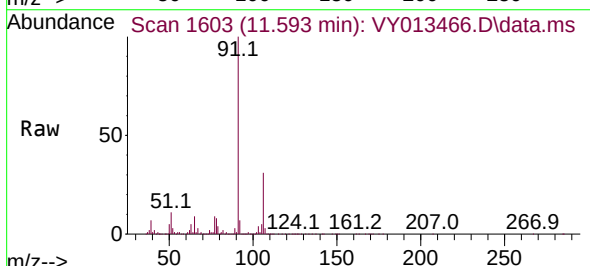
Acq: 26 Apr 2023 12:22

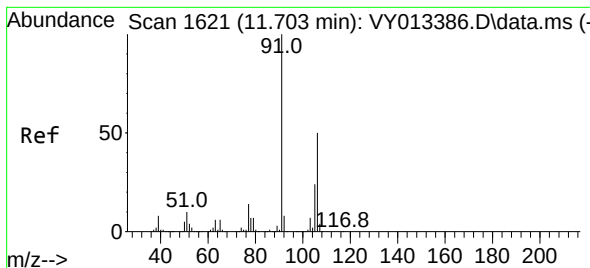
Tgt Ion: 91 Resp: 461321

Ion Ratio Lower Upper

91 100

106 30.6 25.1 37.7

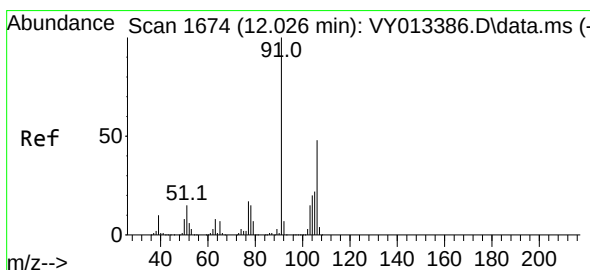
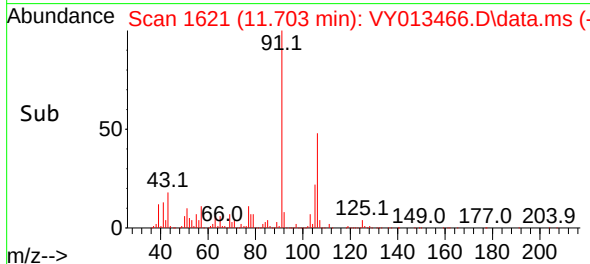
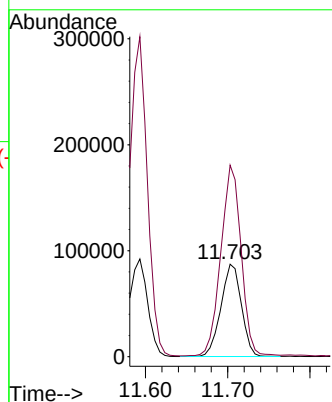
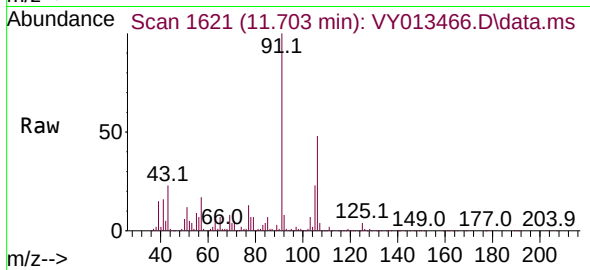




#68
m/p-Xylenes
Concen: 42.746 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. -0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

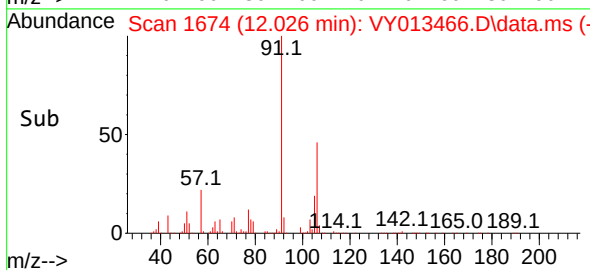
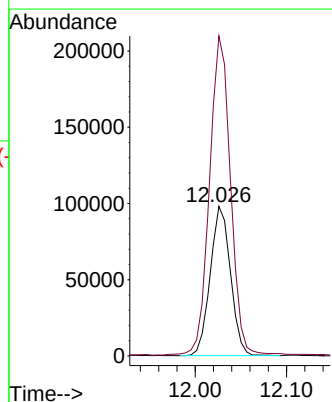
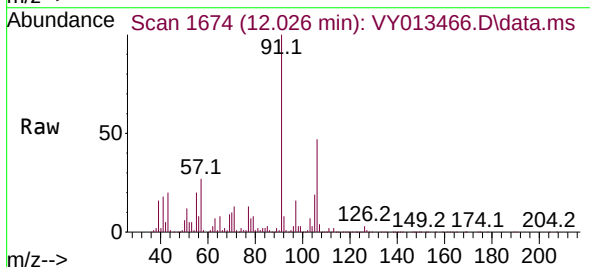
Instrument :
MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

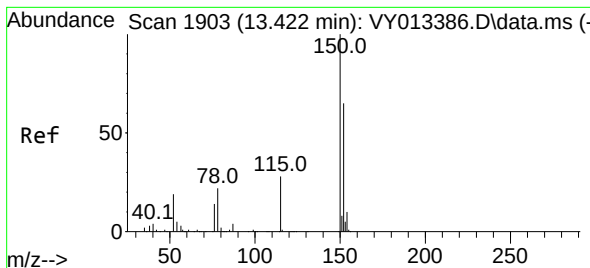
Tgt Ion:106 Resp: 150818
Ion Ratio Lower Upper
106 100
91 204.3 160.9 241.3



#69
o-Xylene
Concen: 45.132 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

Tgt Ion:106 Resp: 150597
Ion Ratio Lower Upper
106 100
91 222.3 105.5 316.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY013466.D

Acq: 26 Apr 2023 12:22

Instrument :

MSVOA_Y

ClientSampleId :

SPA-2WC-23-04

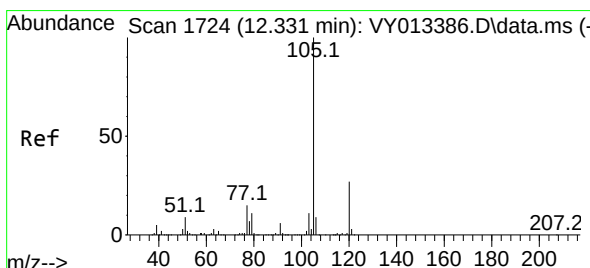
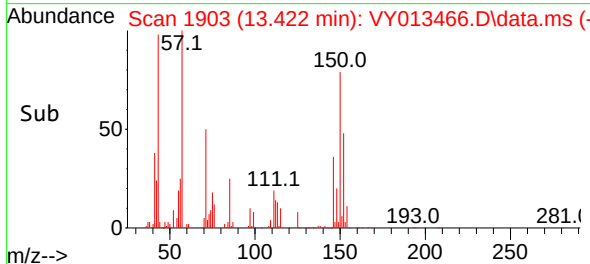
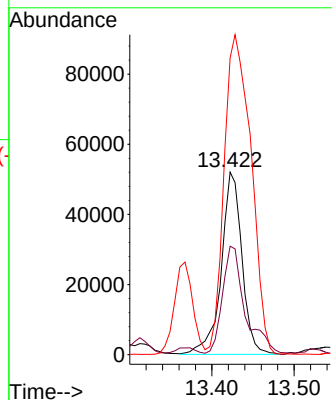
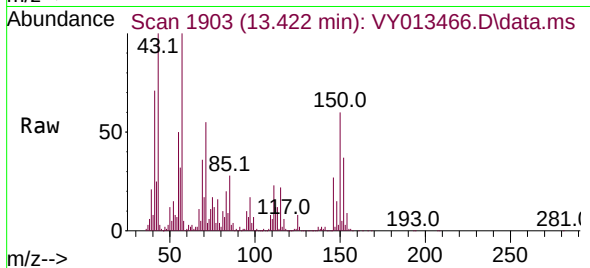
Tgt Ion:152 Resp: 91104

Ion Ratio Lower Upper

152 100

115 63.0 28.1 84.2

150 227.6 0.0 352.0



#73

Isopropylbenzene

Concen: 15.281 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. -0.000 min

Lab File: VY013466.D

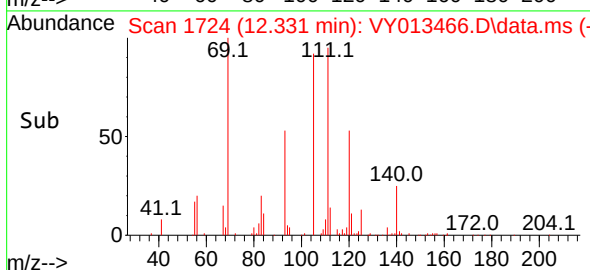
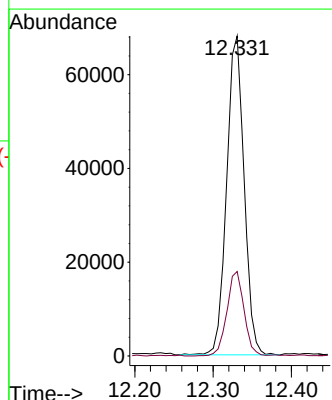
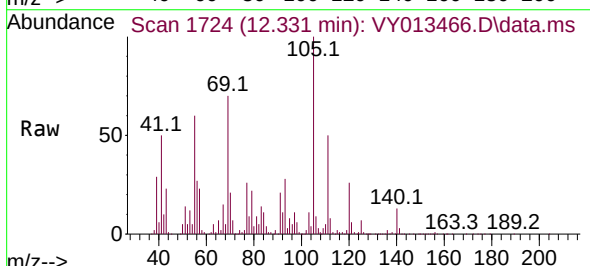
Acq: 26 Apr 2023 12:22

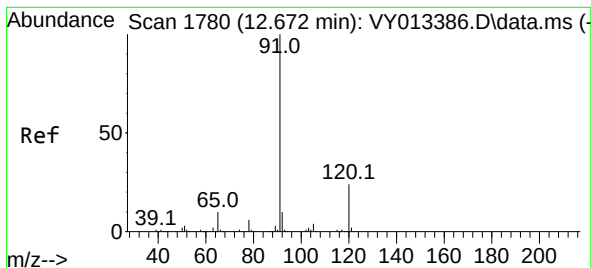
Tgt Ion:105 Resp: 105299

Ion Ratio Lower Upper

105 100

120 26.1 13.7 41.0





#78

n-propylbenzene

Concen: 22.520 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. 0.000 min

Lab File: VY013466.D

Acq: 26 Apr 2023 12:22

Instrument :

MSVOA_Y

ClientSampleId :

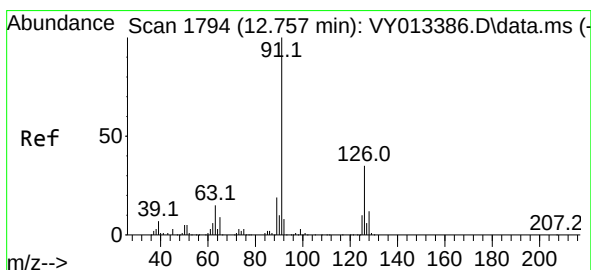
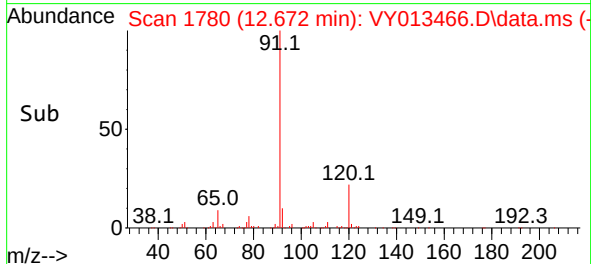
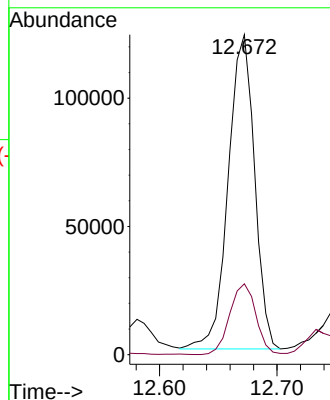
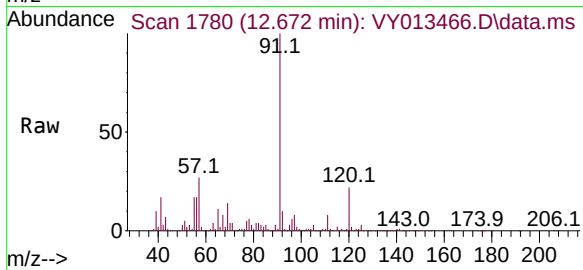
SPA-2WC-23-04

Tgt Ion: 91 Resp: 191139

Ion Ratio Lower Upper

91 100

120 22.3 11.9 35.9



#79

2-Chlorotoluene

Concen: 10.415 ug/l

RT: 12.758 min Scan# 1794

Delta R.T. 0.001 min

Lab File: VY013466.D

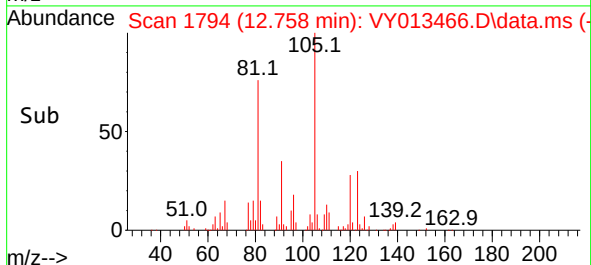
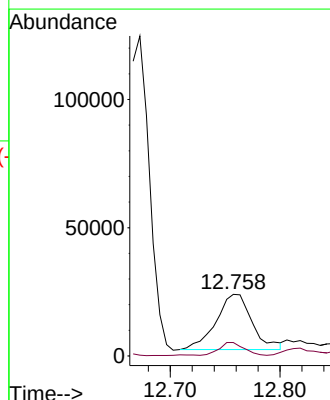
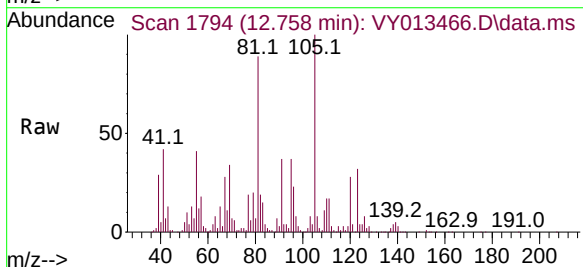
Acq: 26 Apr 2023 12:22

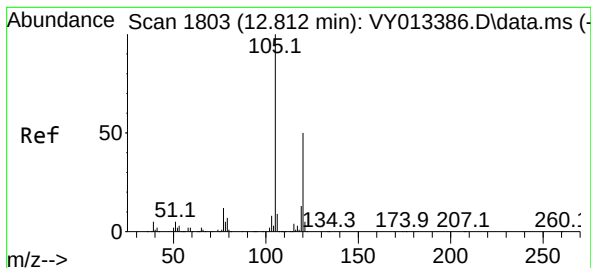
Tgt Ion: 91 Resp: 49362

Ion Ratio Lower Upper

91 100

126 15.7 17.8 53.4#





#80

1,3,5-Trimethylbenzene

Concen: 3.607 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. 0.000 min

Lab File: VY013466.D

Acq: 26 Apr 2023 12:22

Instrument :

MSVOA_Y

ClientSampleId :

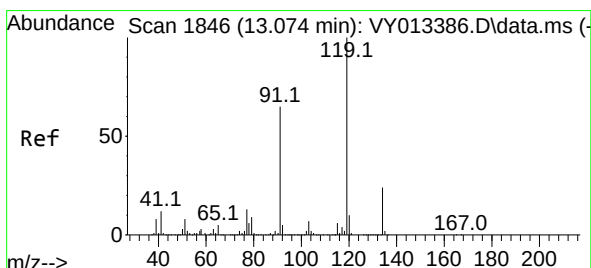
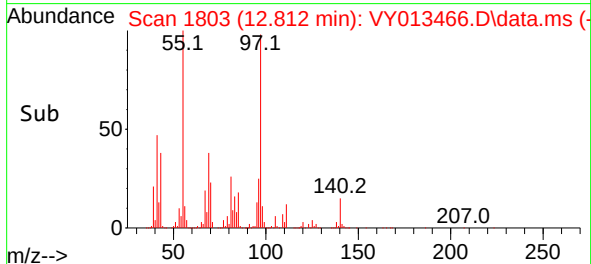
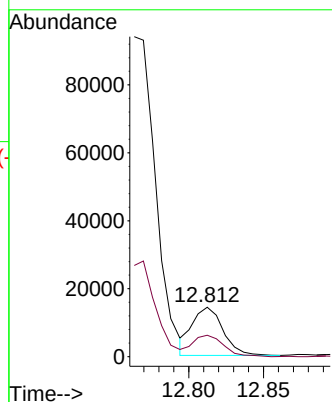
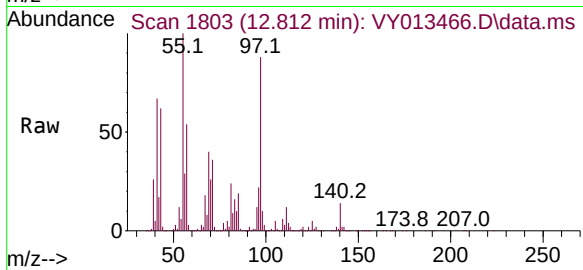
SPA-2WC-23-04

Tgt Ion:105 Resp: 20287

Ion Ratio Lower Upper

105 100

120 45.7 24.7 74.1



#83

tert-Butylbenzene

Concen: 16.312 ug/l

RT: 13.075 min Scan# 1846

Delta R.T. 0.001 min

Lab File: VY013466.D

Acq: 26 Apr 2023 12:22

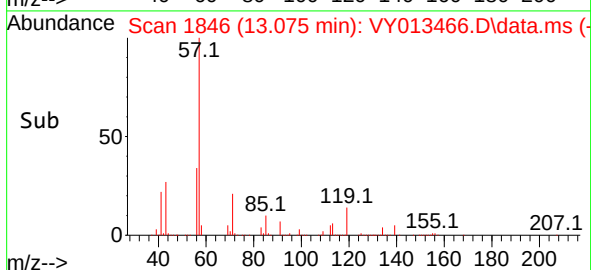
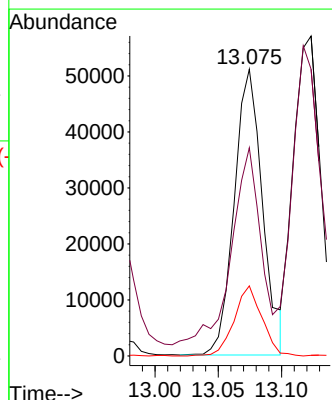
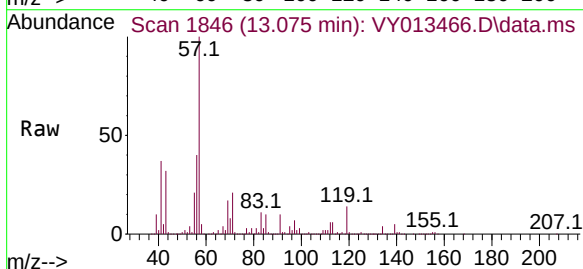
Tgt Ion:119 Resp: 79485

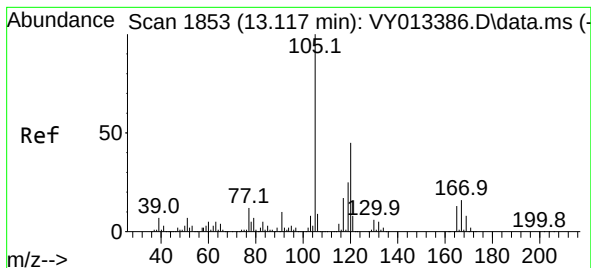
Ion Ratio Lower Upper

119 100

91 70.0 32.2 96.6

134 24.1 13.0 38.9





#84

1,2,4-Trimethylbenzene

Concen: 132.558 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY013466.D

Acq: 26 Apr 2023 12:22

Instrument :

MSVOA_Y

ClientSampleId :

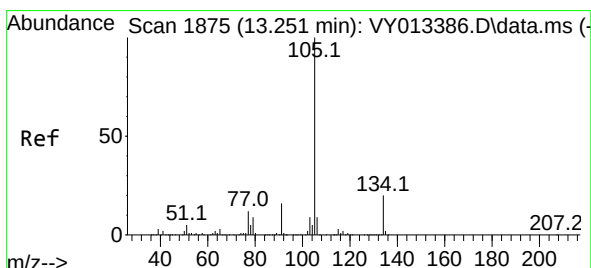
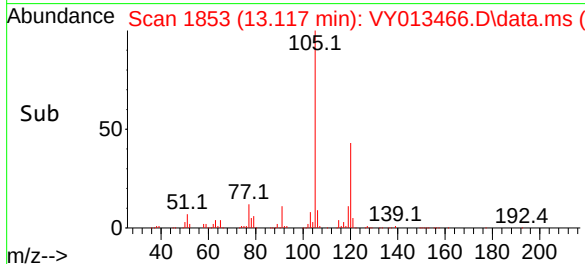
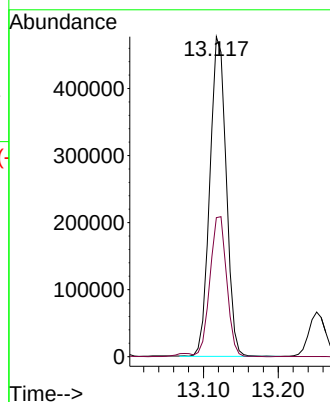
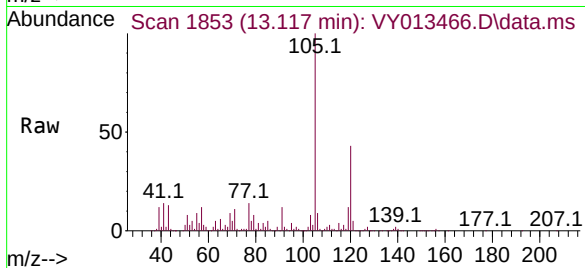
SPA-2WC-23-04

Tgt Ion:105 Resp: 724839

Ion Ratio Lower Upper

105 100

120 44.8 22.3 66.9



#85

sec-Butylbenzene

Concen: 13.985 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY013466.D

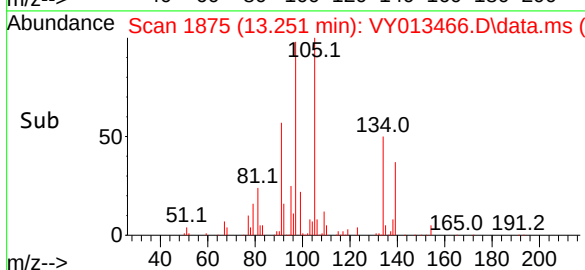
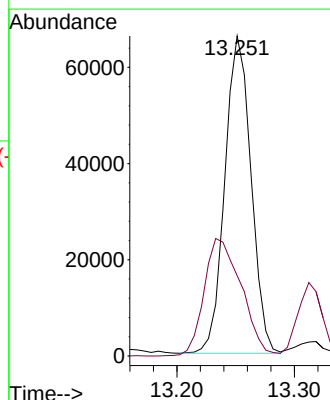
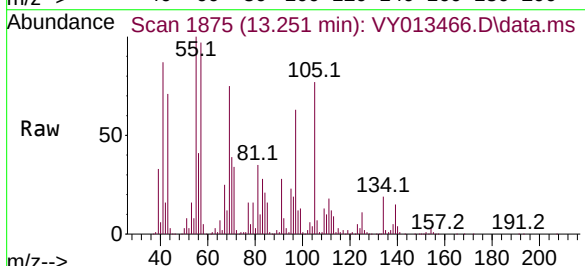
Acq: 26 Apr 2023 12:22

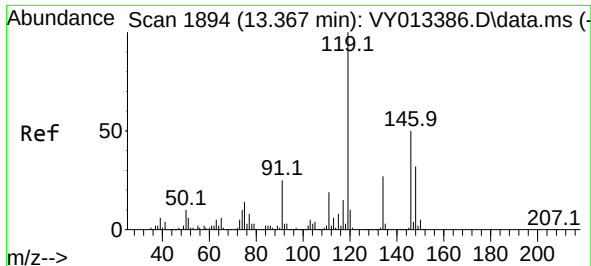
Tgt Ion:105 Resp: 102268

Ion Ratio Lower Upper

105 100

134 52.5 10.3 30.9#

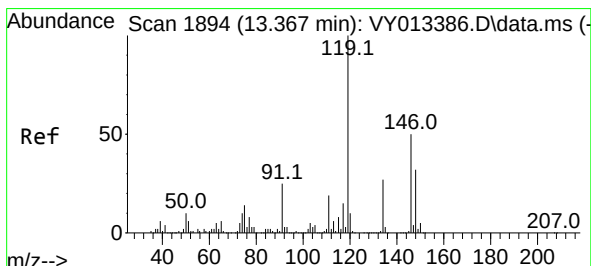
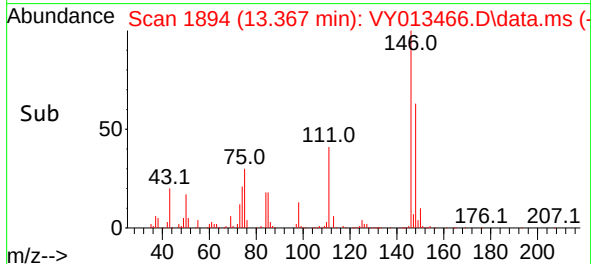
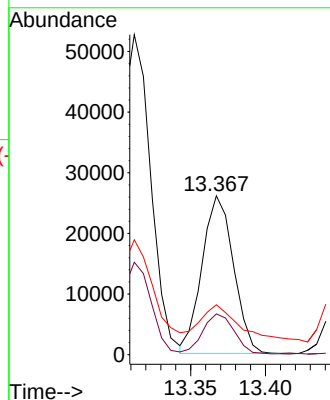
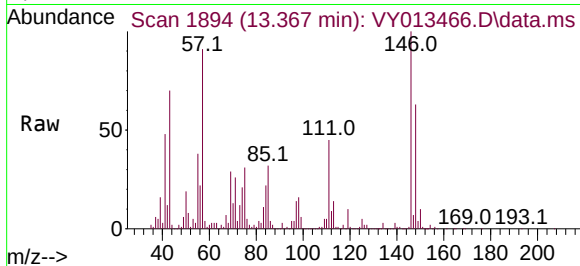




#86
p-Isopropyltoluene
Concen: 6.463 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

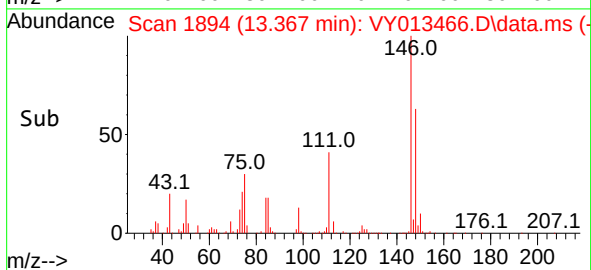
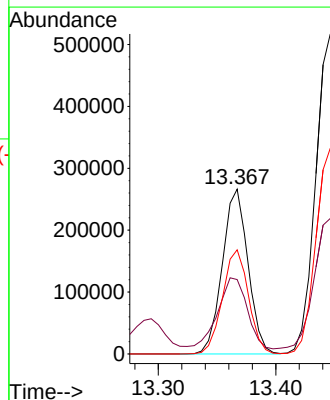
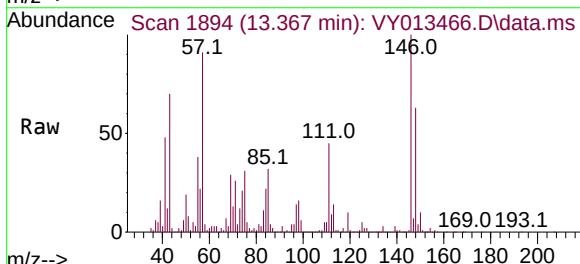
Instrument :
MSVOA_Y
ClientSampleId :
SPA-2WC-23-04

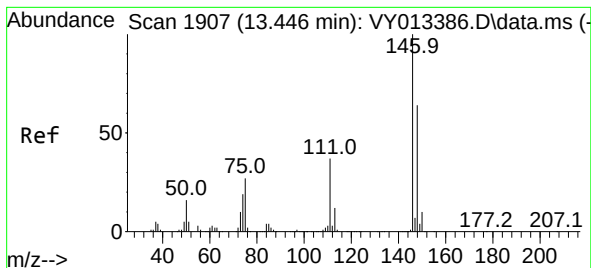
Tgt Ion:	119	Resp:	38009
Ion Ratio	Lower	Upper	
119	100		
134	25.5	13.4	40.2
91	25.2	12.1	36.3



#87
1,3-Dichlorobenzene
Concen: 126.824 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY013466.D
Acq: 26 Apr 2023 12:22

Tgt Ion:	146	Resp:	403425
Ion Ratio	Lower	Upper	
146	100		
111	49.3	19.3	57.9
148	64.1	31.9	95.7





#88

1,4-Dichlorobenzene

Concen: 241.793 ug/l

RT: 13.446 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY013466.D

Acq: 26 Apr 2023 12:22

Instrument :

MSVOA_Y

ClientSampleId :

SPA-2WC-23-04

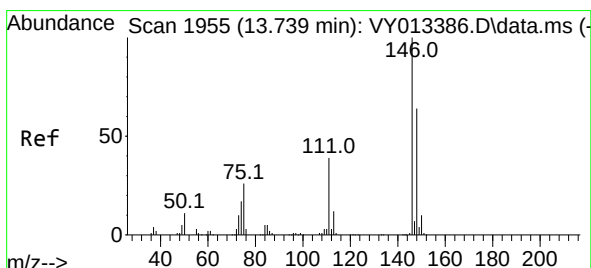
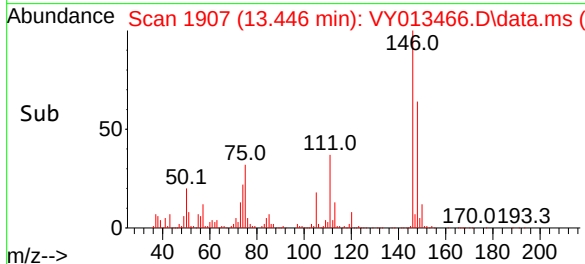
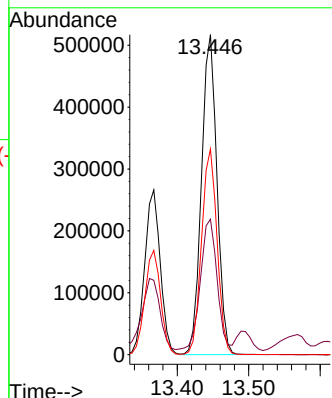
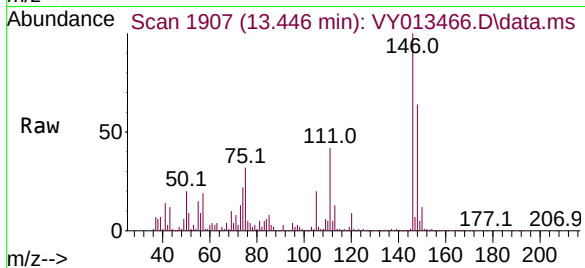
Tgt Ion:146 Resp: 776953

Ion Ratio Lower Upper

146 100

111 43.4 18.9 56.5

148 64.4 31.9 95.5



#91

1,2-Dichlorobenzene

Concen: 184.485 ug/l

RT: 13.739 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VY013466.D

Acq: 26 Apr 2023 12:22

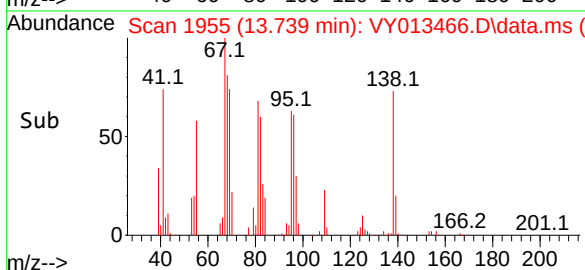
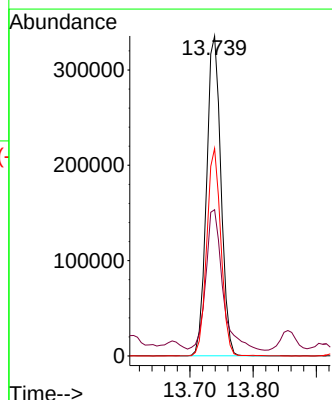
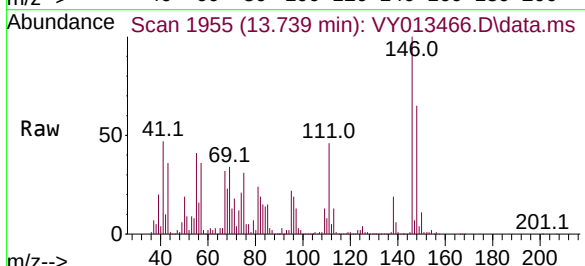
Tgt Ion:146 Resp: 529939

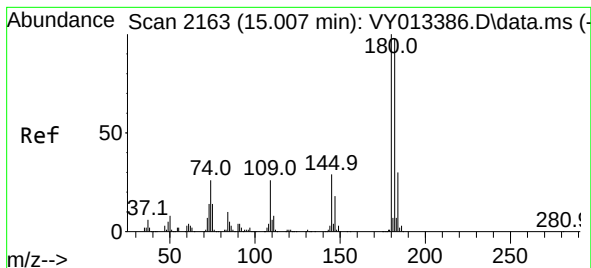
Ion Ratio Lower Upper

146 100

111 52.8 19.8 59.4

148 63.8 31.8 95.4





#93

1,2,4-Trichlorobenzene

Concen: 81.333 ug/l

RT: 15.007 min Scan# 2163

Delta R.T. 0.000 min

Lab File: VY013466.D

Acq: 26 Apr 2023 12:22

Instrument :

MSVOA_Y

ClientSampleId :

SPA-2WC-23-04

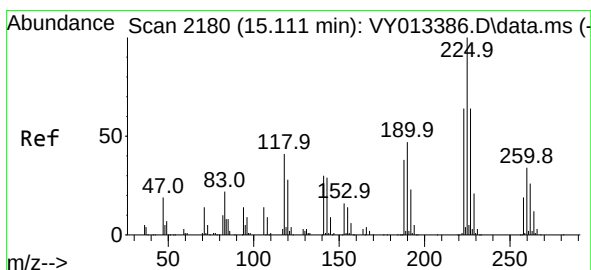
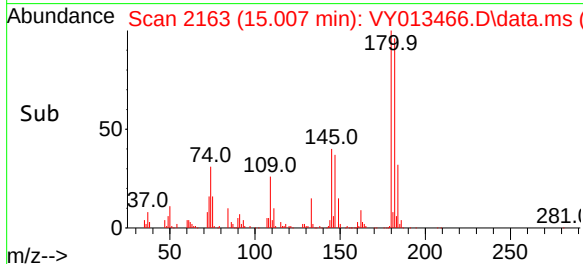
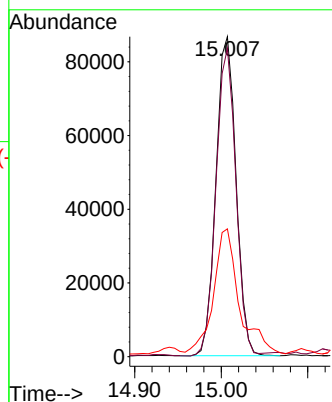
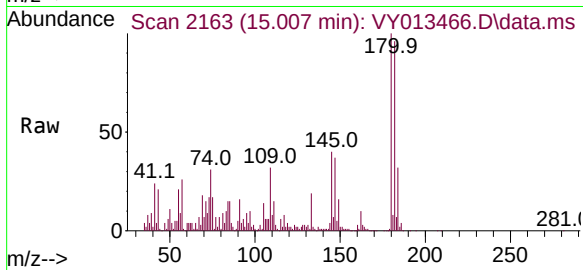
Tgt Ion:180 Resp: 139292

Ion Ratio Lower Upper

180 100

182 95.9 48.5 145.5

145 53.3 15.0 45.0#



#94

Hexachlorobutadiene

Concen: 3.836 ug/l

RT: 15.111 min Scan# 2180

Delta R.T. -0.000 min

Lab File: VY013466.D

Acq: 26 Apr 2023 12:22

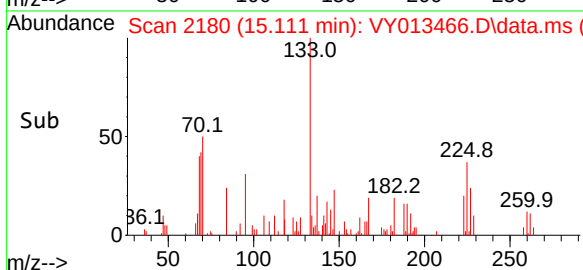
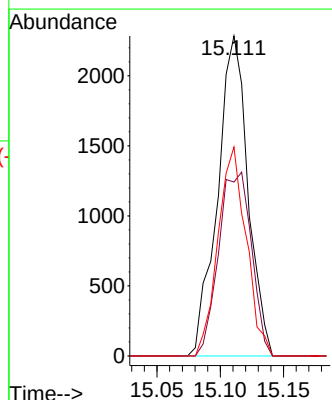
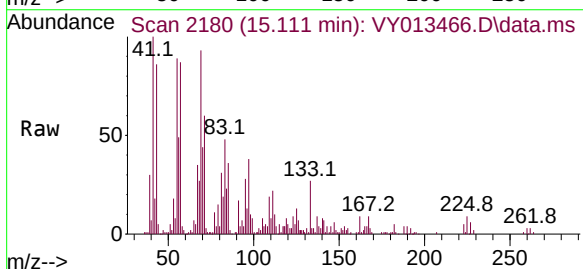
Tgt Ion:225 Resp: 3823

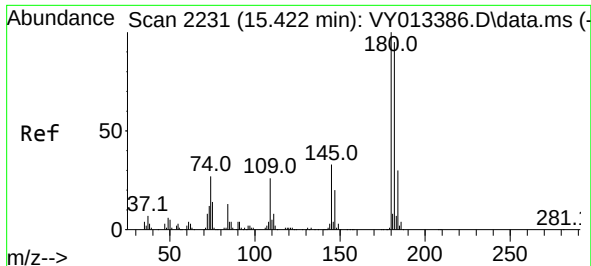
Ion Ratio Lower Upper

225 100

223 61.9 31.4 94.2

227 60.4 32.0 96.0





#96
 1,2,3-Trichlorobenzene
 Concen: 18.847 ug/l
 RT: 15.422 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VY013466.D
 Acq: 26 Apr 2023 12:22

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

Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.4	47.1	141.3
145	86.5	15.9	47.7#

