

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042623\
 Data File : VY013465.D
 Acq On : 26 Apr 2023 11:59
 Operator : KP/MD
 Sample : 02386-02
 Misc : 3.91g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SPA-1WC-23-04

Quant Time: Apr 27 01:30:00 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)

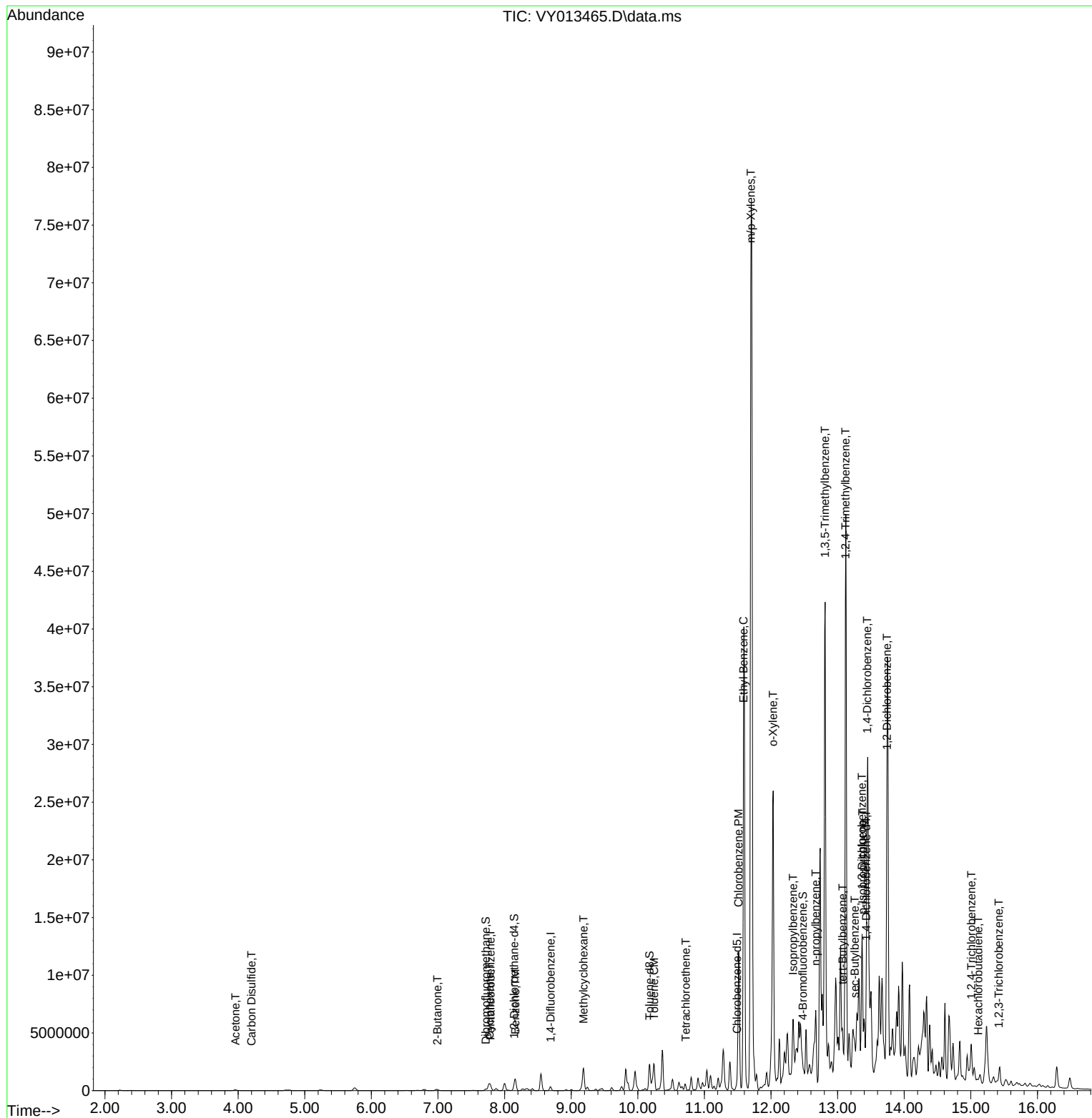
Internal Standards						
1) Pentafluorobenzene	7.789	168	181010	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	283552	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	186971	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	84024	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	107529	54.191	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.380%			
35) Dibromofluoromethane	7.716	113	94207	52.824	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.640%			
50) Toluene-d8	10.179	98	391276	61.673	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 123.340%			
62) 4-Bromofluorobenzene	12.477	95	156602	73.219	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 146.440%#			
Target Compounds						Qvalue
16) Acetone	3.960	43	161675	206.898	ug/l	91
17) Carbon Disulfide	4.198	76	11737	1.921	ug/l	98
25) 2-Butanone	6.990	43	70146	70.782	ug/l	96
31) Cyclohexane	7.777	56	169979	47.845	ug/l	# 68
39) Methylcyclohexane	9.185	83	724444	207.617	ug/l	95
40) Benzene	8.161	78	956340	114.704	ug/l	98
52) Toluene	10.246	92	925298	184.424	ug/l	100
64) Tetrachloroethene	10.721	164	1471	1.035	ug/l	87
65) Chlorobenzene	11.514	112	5603219	1375.717	ug/l	96
67) Ethyl Benzene	11.587	91	17546709	2453.373	ug/l	# 72
68) m/p-Xylenes	11.697	106	18725856	6887.306	ug/l	# 1
69) o-Xylene	12.032	106	5766258	2242.469	ug/l	95
73) Isopropylbenzene	12.331	105	2212554	348.145	ug/l	97
78) n-propylbenzene	12.672	91	4295347	548.718	ug/l	97
80) 1,3,5-Trimethylbenzene	12.812	105	6690525	1289.828	ug/l	98
83) tert-Butylbenzene	13.074	119	488769	108.761	ug/l	97
84) 1,2,4-Trimethylbenzene	13.117	105	15479758	3069.472	ug/l	70
85) sec-Butylbenzene	13.257	105	807014	119.653	ug/l	# 23
86) p-Isopropyltoluene	13.373	119	1909317	352.023	ug/l	98
87) 1,3-Dichlorobenzene	13.367	146	912352	310.981	ug/l	90
88) 1,4-Dichlorobenzene	13.446	146	5502527	1856.715	ug/l	95
91) 1,2-Dichlorobenzene	13.739	146	5568516	2101.889	ug/l	94
93) 1,2,4-Trichlorobenzene	15.007	180	788050	498.915	ug/l	# 91
94) Hexachlorobutadiene	15.111	225	6001	6.528	ug/l	99
96) 1,2,3-Trichlorobenzene	15.422	180	152411	108.260	ug/l	# 80

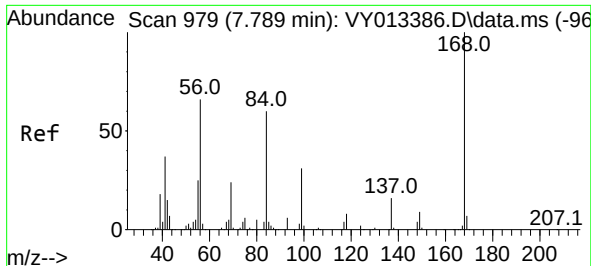
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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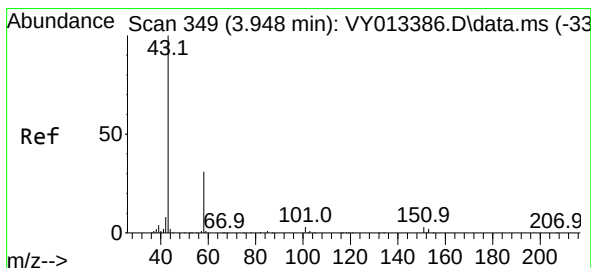
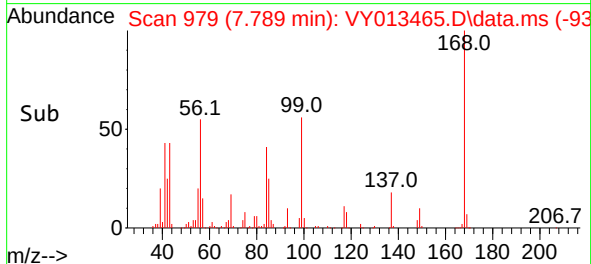
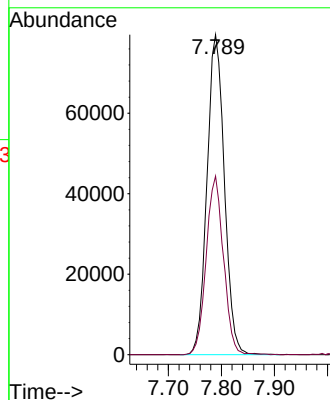
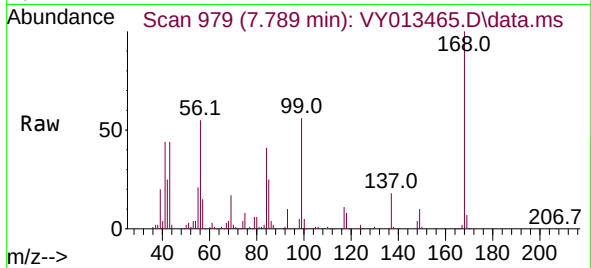




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

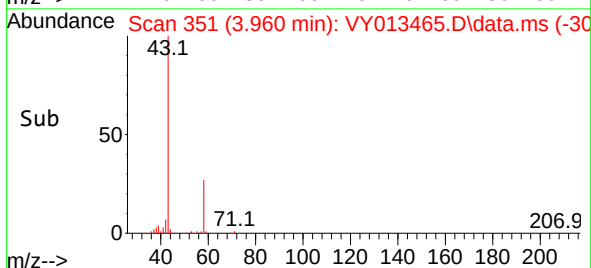
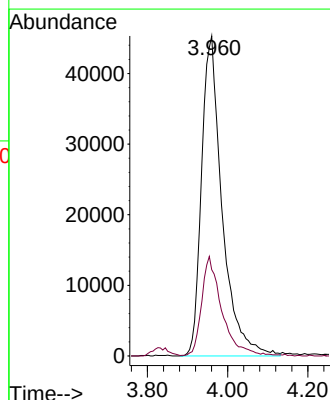
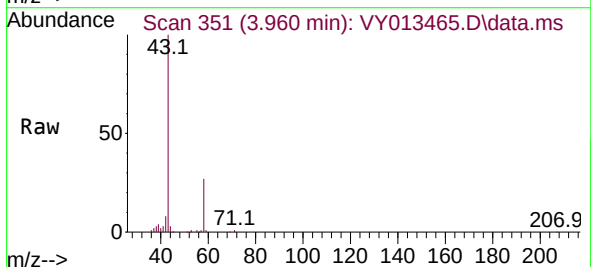
Instrument :
MSVOA_Y
ClientSampleId :
SPA-1WC-23-04

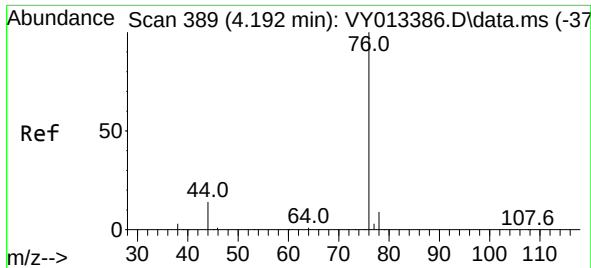
Tgt Ion:168 Resp: 181010
Ion Ratio Lower Upper
168 100
99 55.8 41.8 62.6



#16
Acetone
Concen: 206.898 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.012 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

Tgt Ion: 43 Resp: 161675
Ion Ratio Lower Upper
43 100
58 26.8 25.4 38.0





#17

Carbon Disulfide

Concen: 1.921 ug/l

RT: 4.198 min Scan# 389

Delta R.T. 0.006 min

Lab File: VY013465.D

Acq: 26 Apr 2023 11:59

Instrument :

MSVOA_Y

ClientSampleId :

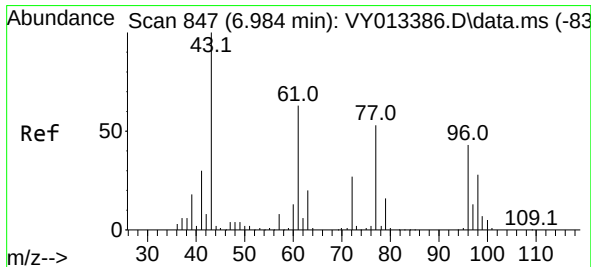
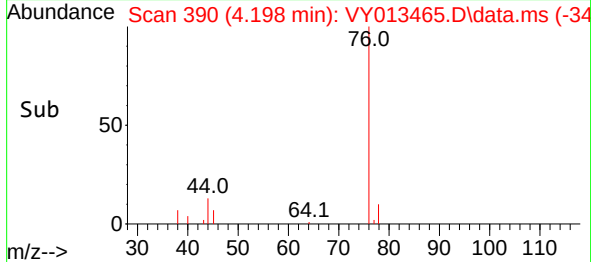
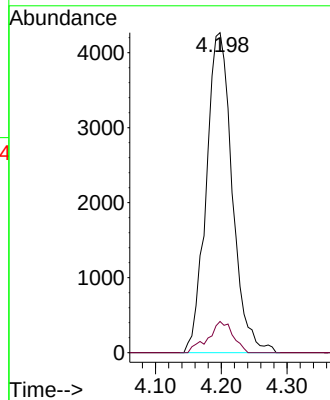
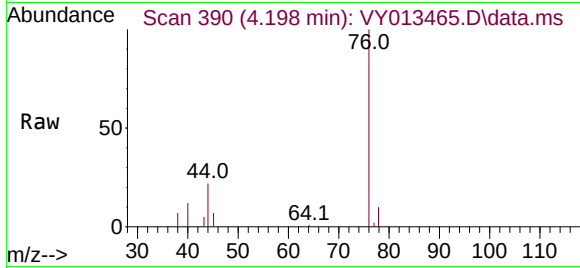
SPA-1WC-23-04

Tgt Ion: 76 Resp: 11737

Ion Ratio Lower Upper

76 100

78 9.8 7.2 10.8



#25

2-Butanone

Concen: 70.782 ug/l

RT: 6.990 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY013465.D

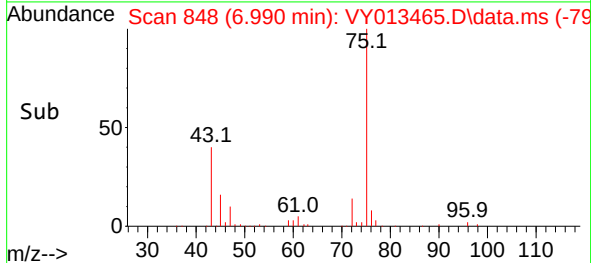
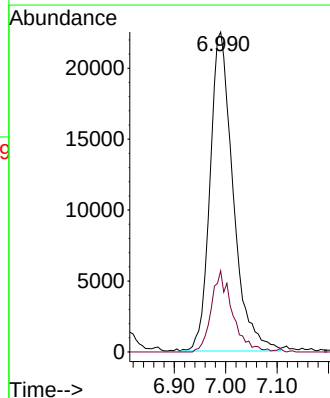
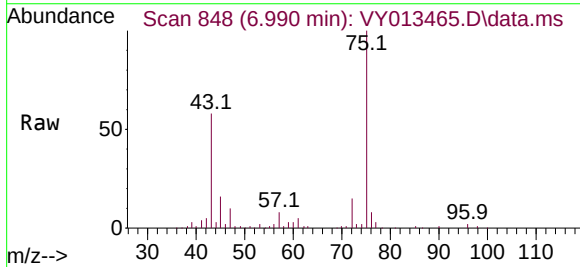
Acq: 26 Apr 2023 11:59

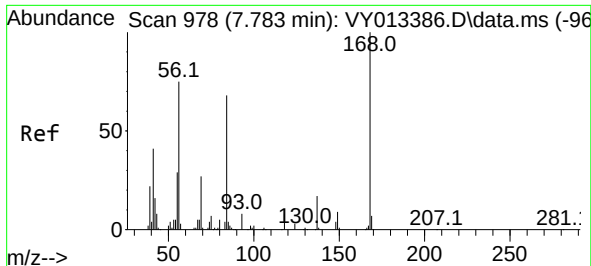
Tgt Ion: 43 Resp: 70146

Ion Ratio Lower Upper

43 100

72 25.4 21.9 32.9

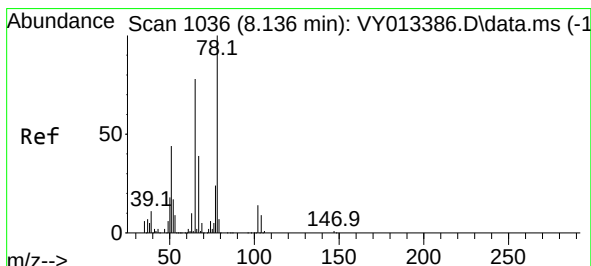
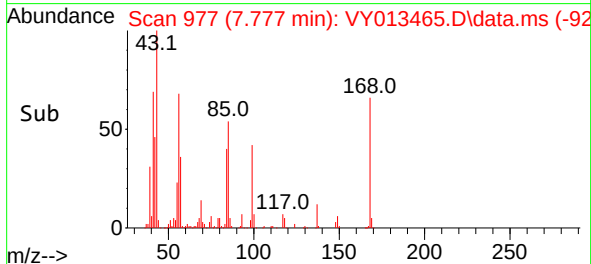
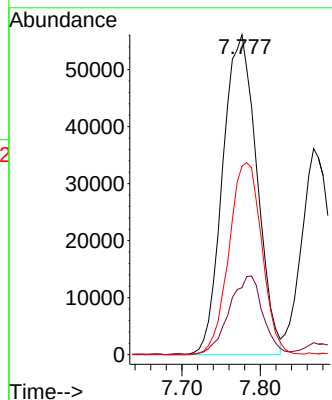
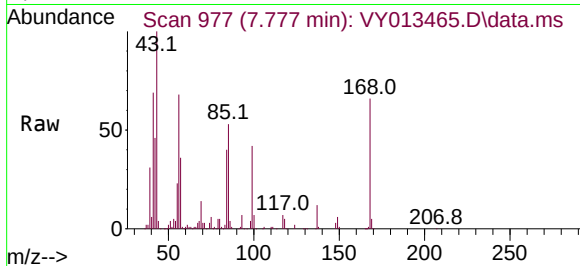




#31
Cyclohexane
Concen: 47.845 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

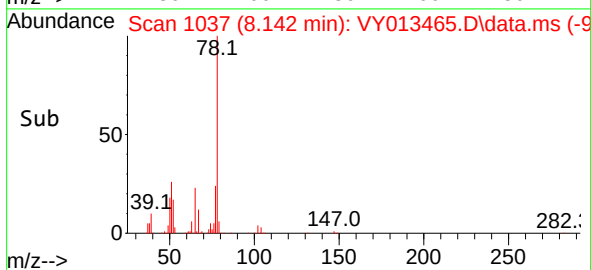
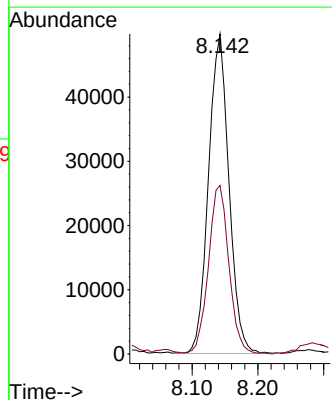
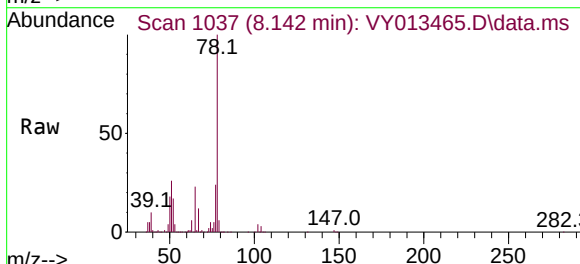
Instrument :
MSVOA_Y
ClientSampleId :
SPA-1WC-23-04

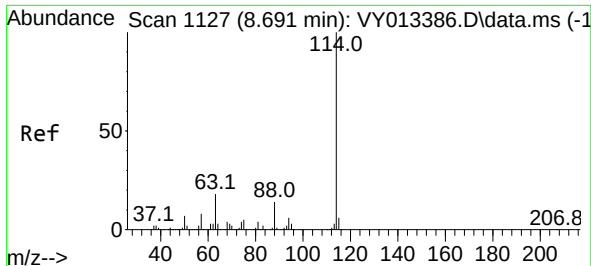
Tgt Ion: 56 Resp: 169979
Ion Ratio Lower Upper
56 100
69 20.6 29.2 43.8#
84 58.9 73.0 109.6#



#33
1,2-Dichloroethane-d4
Concen: 54.191 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

Tgt Ion: 65 Resp: 107529
Ion Ratio Lower Upper
65 100
67 53.0 0.0 103.4

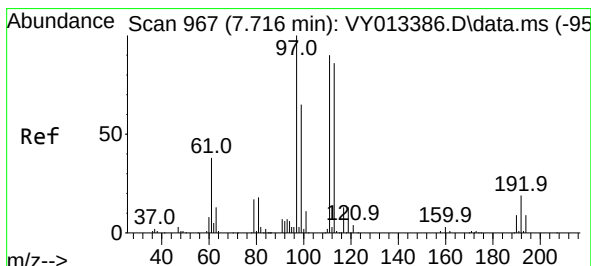
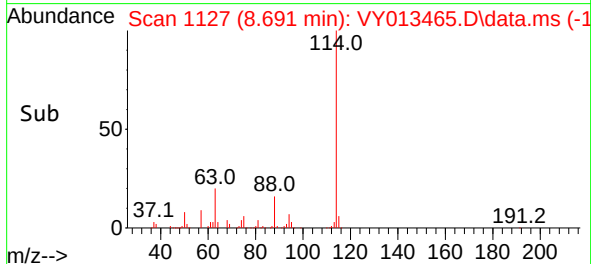
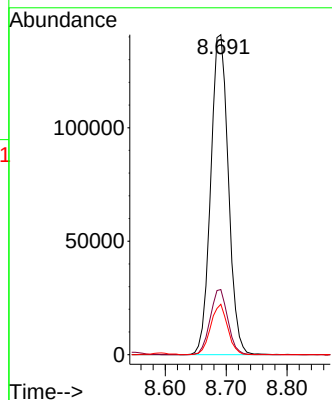
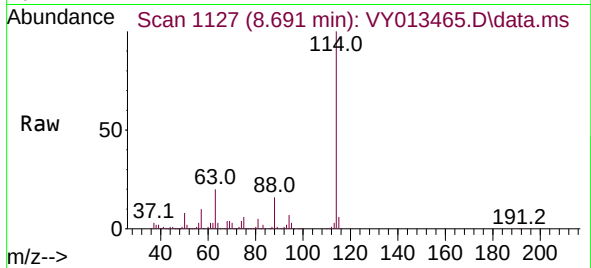




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

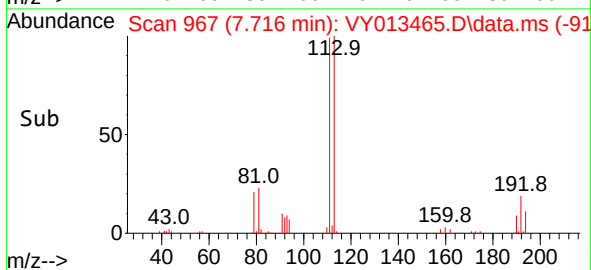
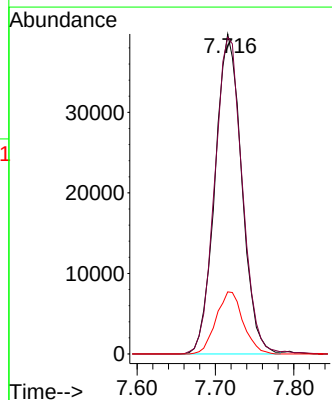
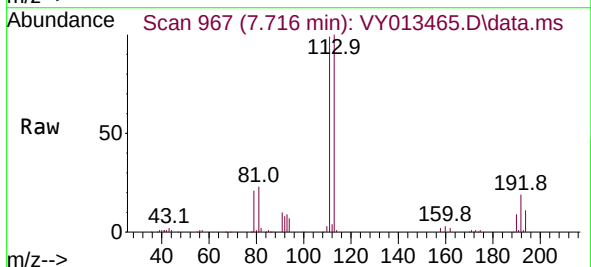
Instrument :
MSVOA_Y
ClientSampleId :
SPA-1WC-23-04

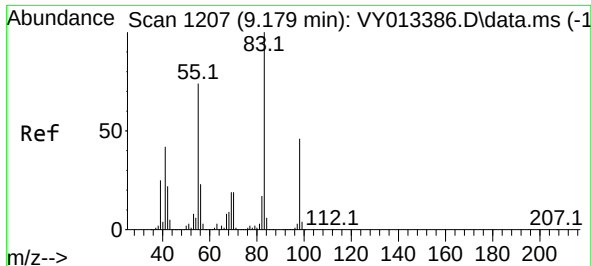
Tgt Ion:114 Resp: 283552
Ion Ratio Lower Upper
114 100
63 20.3 0.0 36.6
88 15.8 0.0 28.8



#35
Dibromofluoromethane
Concen: 52.824 ug/l
RT: 7.716 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

Tgt Ion:113 Resp: 94207
Ion Ratio Lower Upper
113 100
111 101.9 82.2 123.2
192 19.6 16.7 25.1





#39

Methylcyclohexane

Concen: 207.617 ug/l

RT: 9.185 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY013465.D

Acq: 26 Apr 2023 11:59

Instrument :

MSVOA_Y

ClientSampleId :

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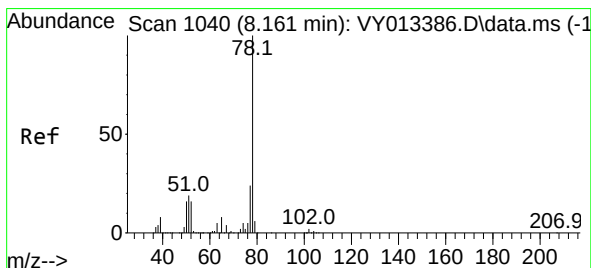
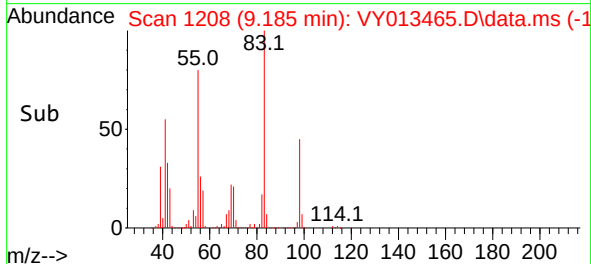
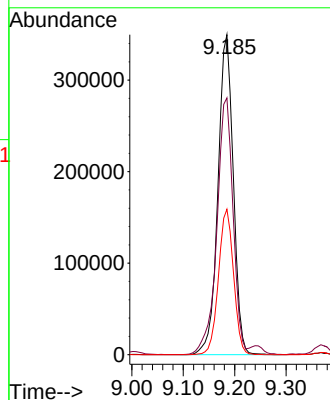
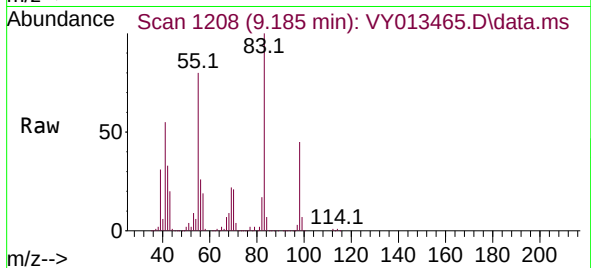
Tgt Ion: 83 Resp: 724444

Ion Ratio Lower Upper

83 100

55 80.2 59.0 88.4

98 45.5 37.0 55.4



#40

Benzene

Concen: 114.704 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY013465.D

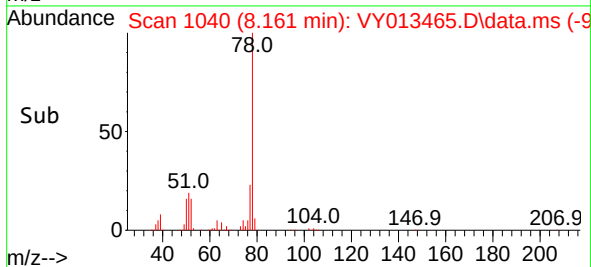
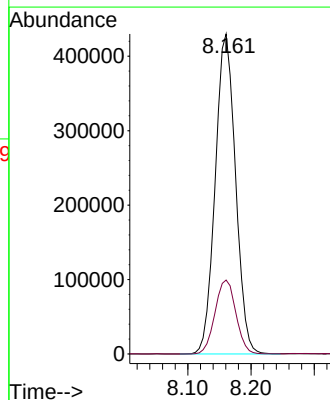
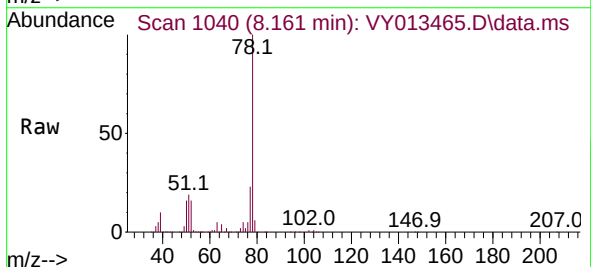
Acq: 26 Apr 2023 11:59

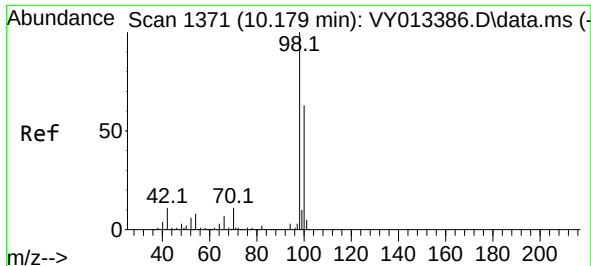
Tgt Ion: 78 Resp: 956340

Ion Ratio Lower Upper

78 100

77 23.1 19.2 28.8

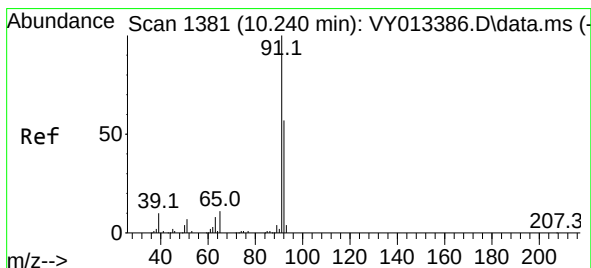
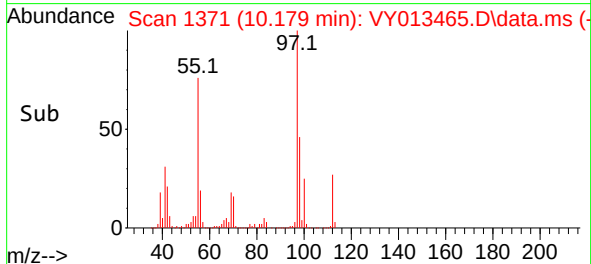
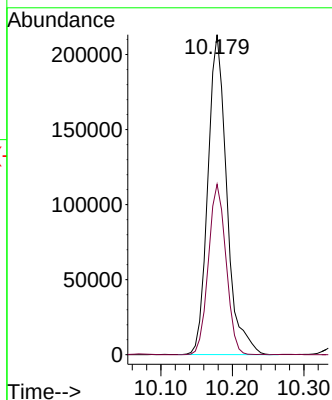
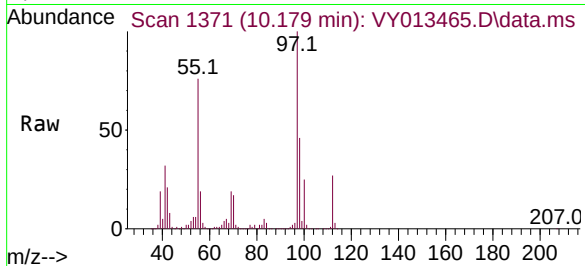




#50
Toluene-d8
Concen: 61.673 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

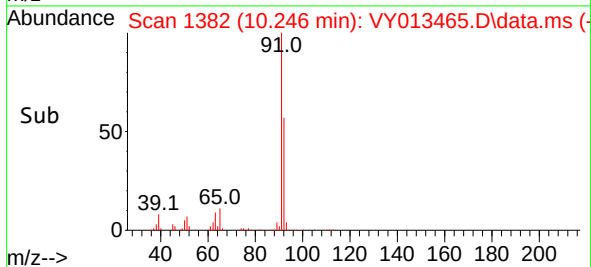
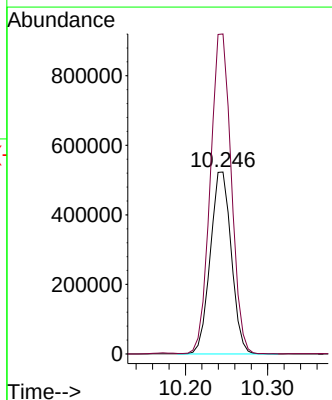
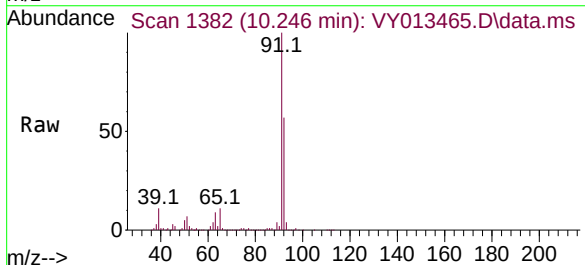
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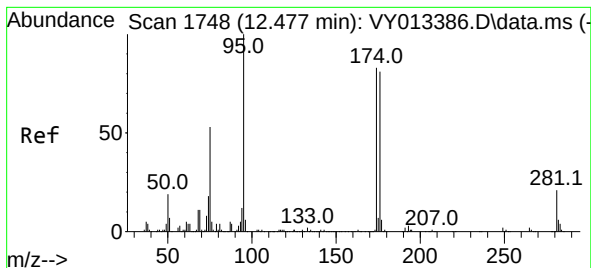
Tgt Ion: 98 Resp: 391276
Ion Ratio Lower Upper
98 100
100 49.6 50.5 75.7#



#52
Toluene
Concen: 184.424 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

Tgt Ion: 92 Resp: 925298
Ion Ratio Lower Upper
92 100
91 175.9 140.2 210.4

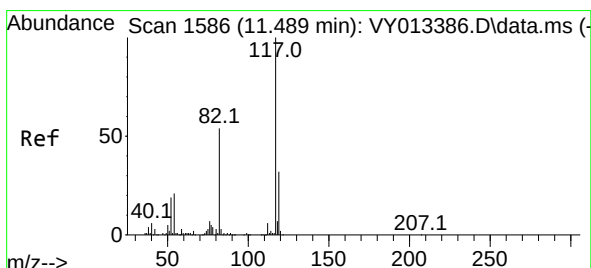
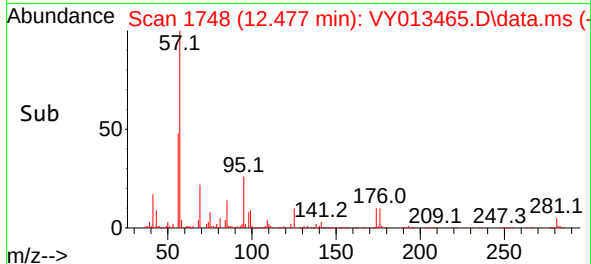
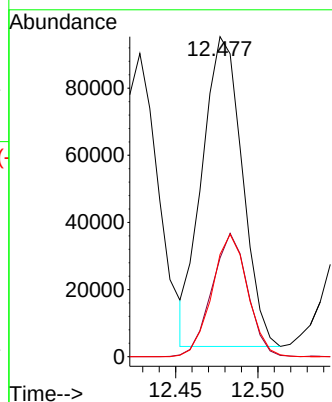
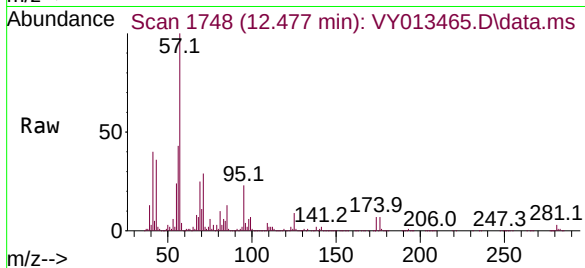




#62
4-Bromofluorobenzene
Concen: 73.219 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

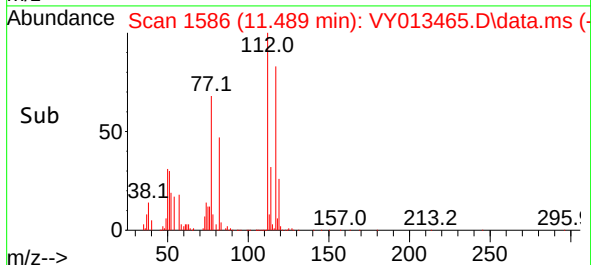
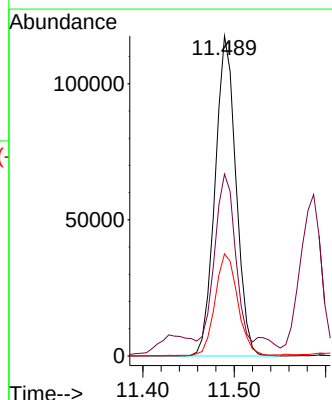
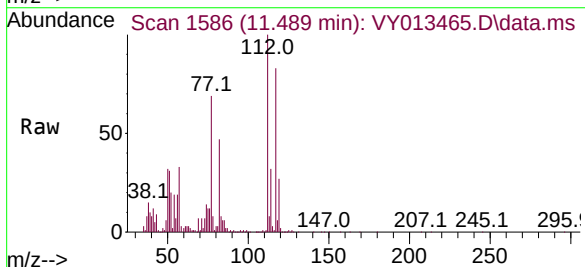
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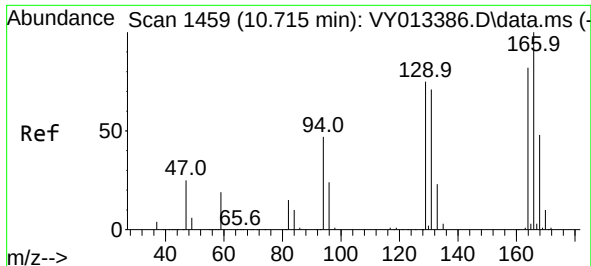
Tgt Ion: 95 Resp: 156602
Ion Ratio Lower Upper
95 100
174 35.3 0.0 182.0
176 35.1 0.0 175.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

Tgt Ion: 117 Resp: 186971
Ion Ratio Lower Upper
117 100
82 54.4 43.0 64.6
119 31.7 25.5 38.3

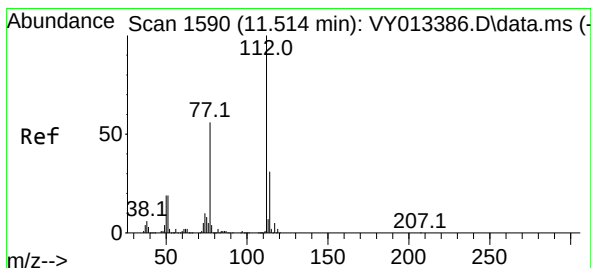
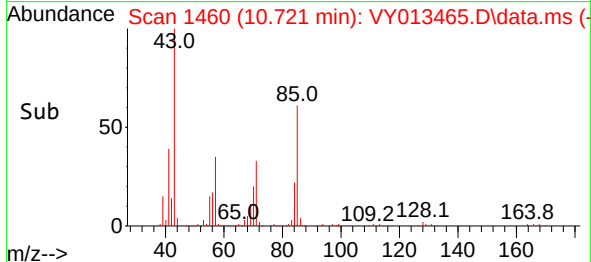
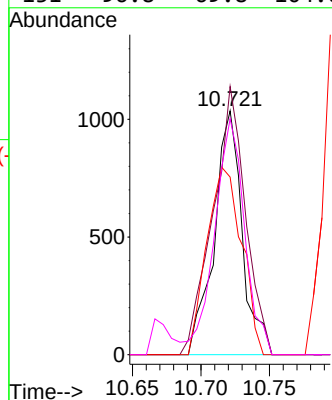
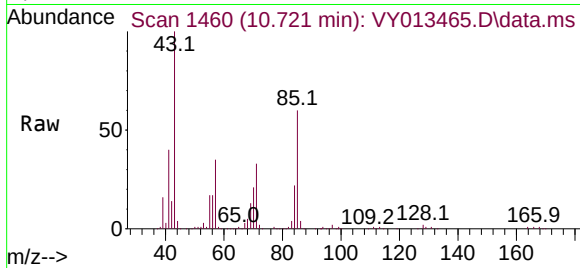




#64
Tetrachloroethene
Concen: 1.035 ug/l
RT: 10.721 min Scan# 1459
Delta R.T. 0.006 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

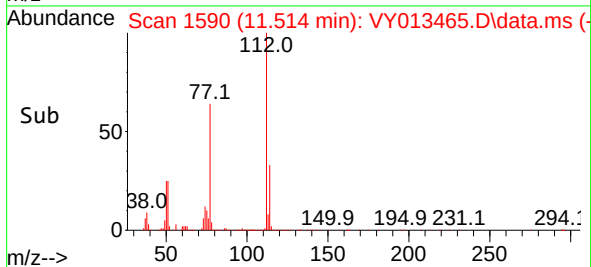
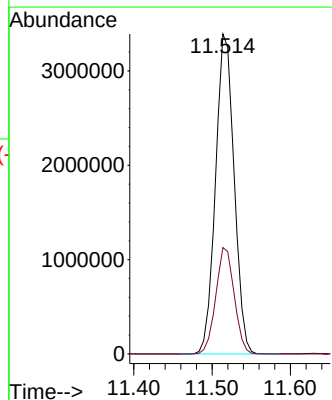
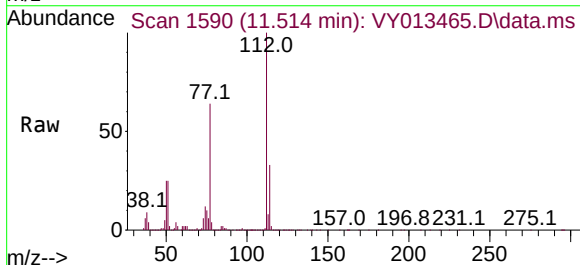
Instrument :
MSVOA_Y
ClientSampleId :
SPA-1WC-23-04

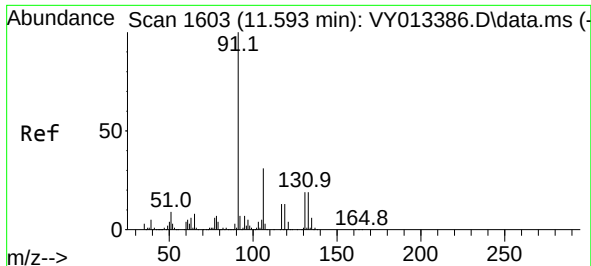
Tgt Ion:164 Resp: 1471
Ion Ratio Lower Upper
164 100
166 110.0 97.5 146.3
129 72.9 72.6 109.0
131 96.8 69.8 104.6



#65
Chlorobenzene
Concen: 1375.717 ug/l
RT: 11.514 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

Tgt Ion:112 Resp: 5603219
Ion Ratio Lower Upper
112 100
114 33.2 24.9 37.3

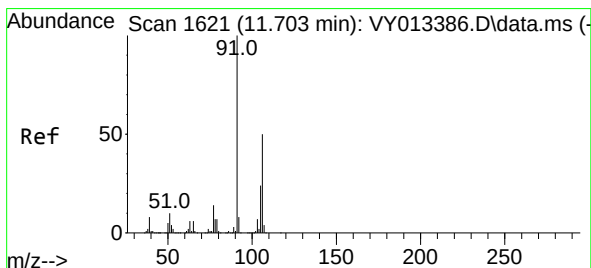
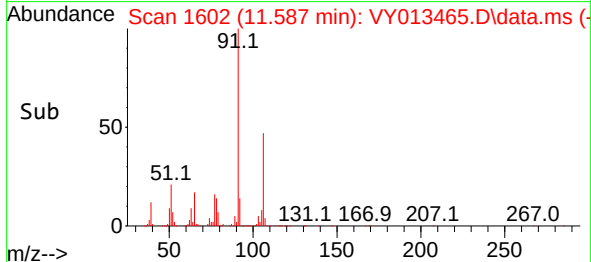
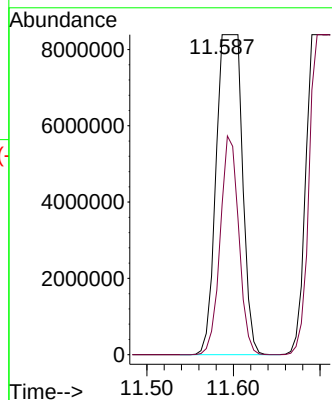
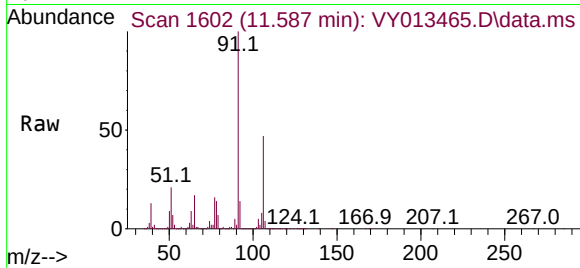




#67
Ethyl Benzene
Concen: 2453.373 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. -0.006 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

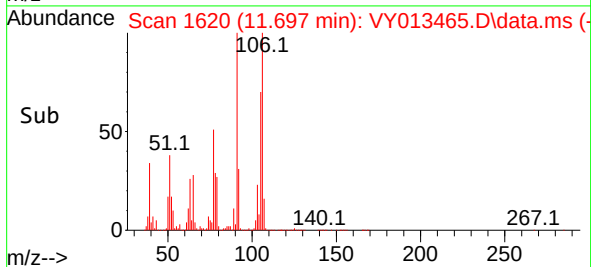
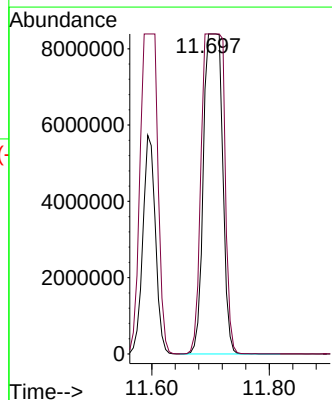
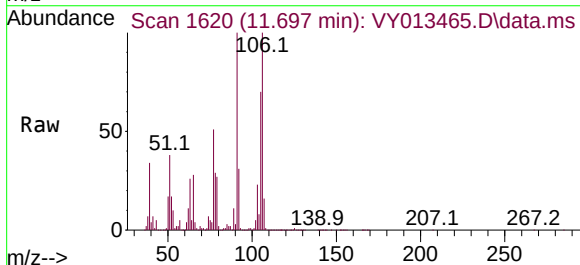
Instrument :
MSVOA_Y
ClientSampleId :
SPA-1WC-23-04

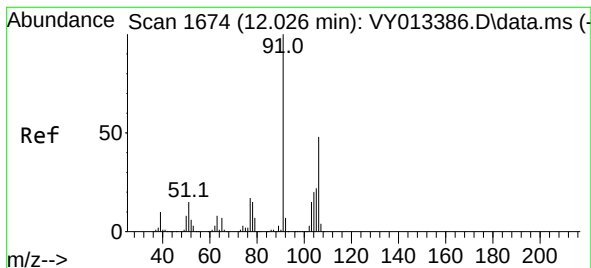
Tgt Ion: 91 Resp:17546709
Ion Ratio Lower Upper
91 100
106 47.0 25.1 37.7#



#68
m/p-Xylenes
Concen: 6887.306 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

Tgt Ion:106 Resp:18725856
Ion Ratio Lower Upper
106 100
91 0.0 160.9 241.3#





#69

o-Xylene

Concen: 2242.469 ug/l

RT: 12.032 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY013465.D

Acq: 26 Apr 2023 11:59

Instrument :

MSVOA_Y

ClientSampleId :

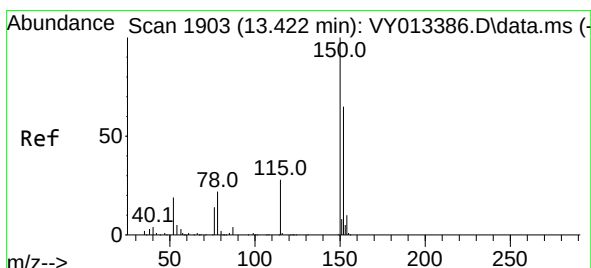
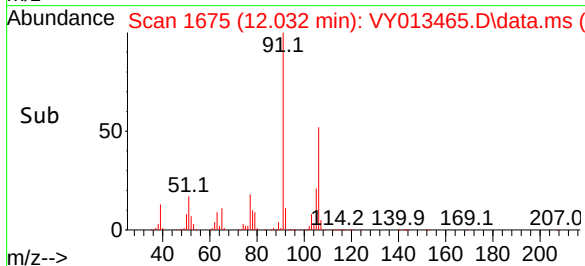
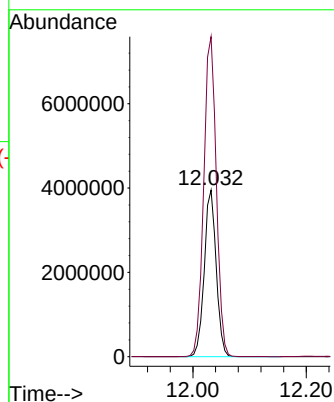
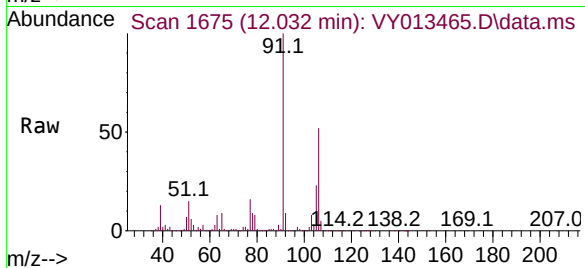
SPA-1WC-23-04

Tgt Ion:106 Resp: 5766258

Ion Ratio Lower Upper

106 100

91 203.0 105.5 316.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY013465.D

Acq: 26 Apr 2023 11:59

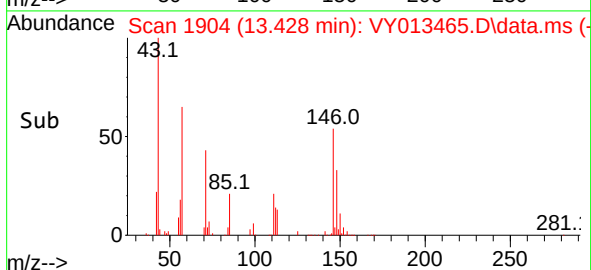
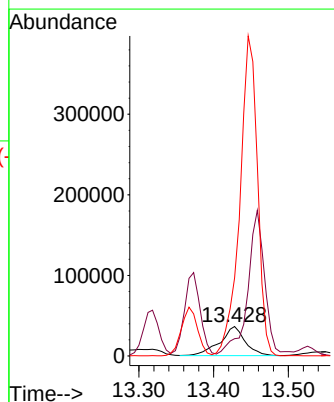
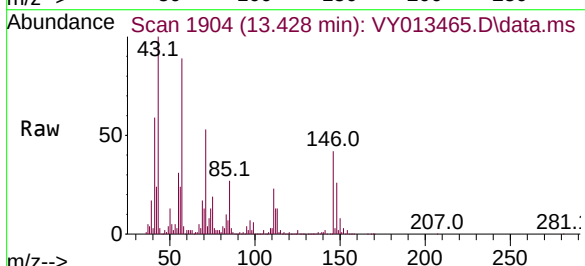
Tgt Ion:152 Resp: 84024

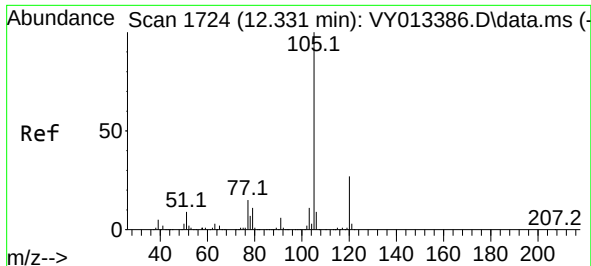
Ion Ratio Lower Upper

152 100

115 0.0 28.1 84.2#

150 0.0 0.0 352.0

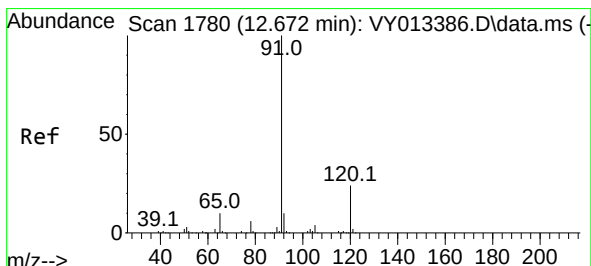
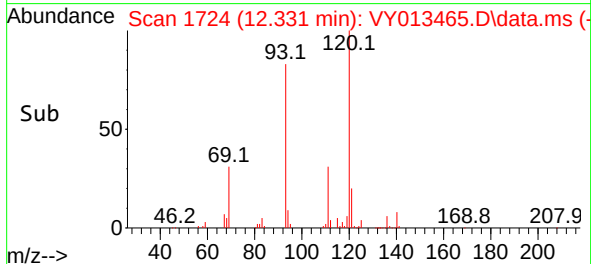
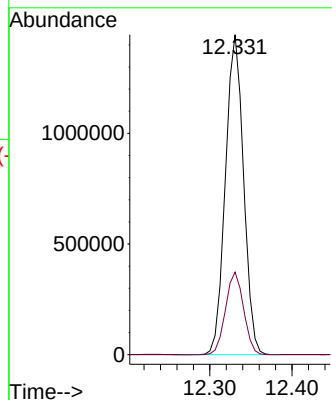
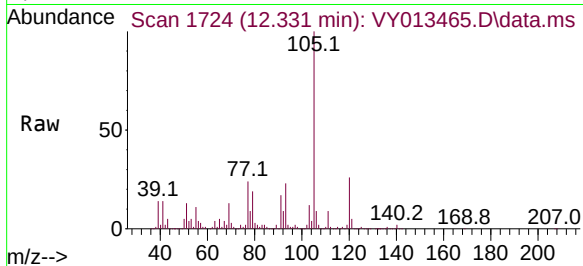




#73
Isopropylbenzene
Concen: 348.145 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. -0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

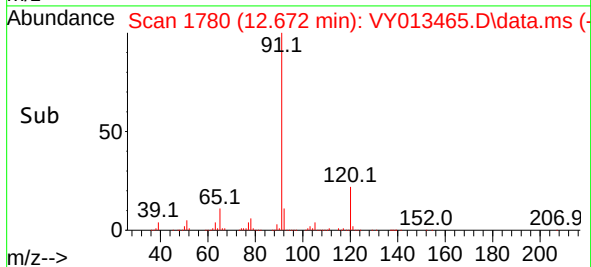
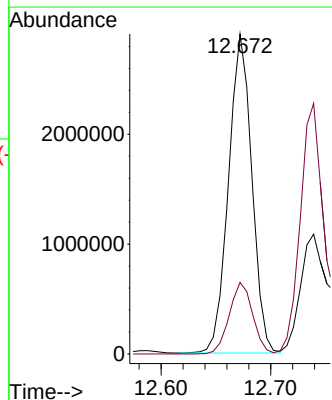
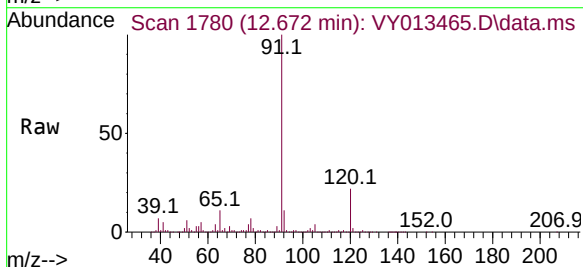
Instrument :
MSVOA_Y
ClientSampleId :
SPA-1WC-23-04

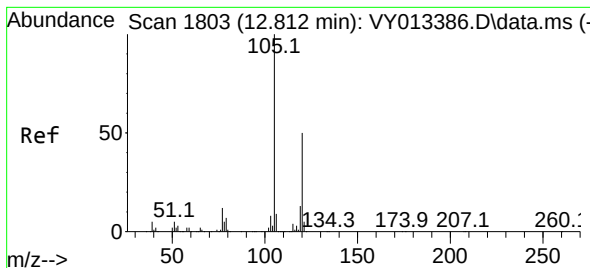
Tgt Ion:105 Resp: 2212554
Ion Ratio Lower Upper
105 100
120 25.7 13.7 41.0



#78
n-propylbenzene
Concen: 548.718 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

Tgt Ion: 91 Resp: 4295347
Ion Ratio Lower Upper
91 100
120 22.4 11.9 35.9





#80

1,3,5-Trimethylbenzene

Concen: 1289.828 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. 0.000 min

Lab File: VY013465.D

Acq: 26 Apr 2023 11:59

Instrument :

MSVOA_Y

ClientSampleId :

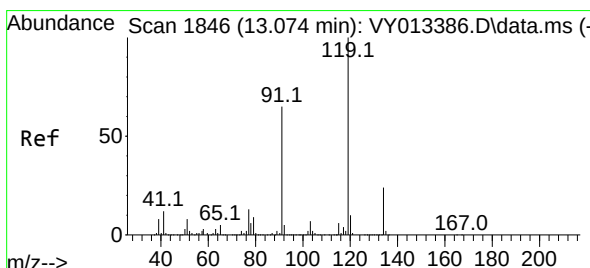
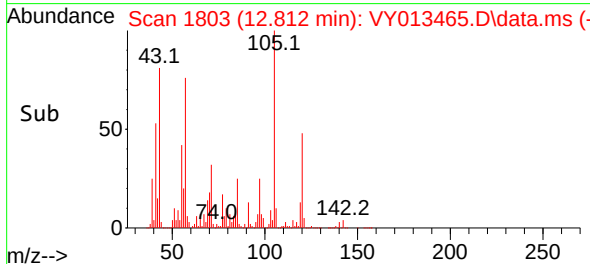
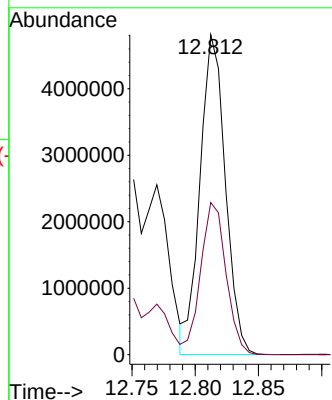
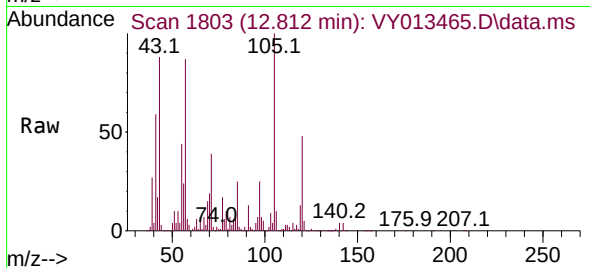
SPA-1WC-23-04

Tgt Ion:105 Resp: 6690525

Ion Ratio Lower Upper

105 100

120 47.9 24.7 74.1



#83

tert-Butylbenzene

Concen: 108.761 ug/l

RT: 13.074 min Scan# 1846

Delta R.T. 0.000 min

Lab File: VY013465.D

Acq: 26 Apr 2023 11:59

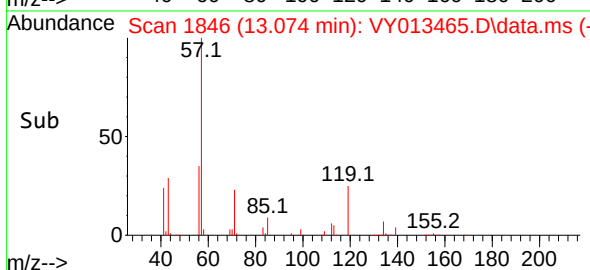
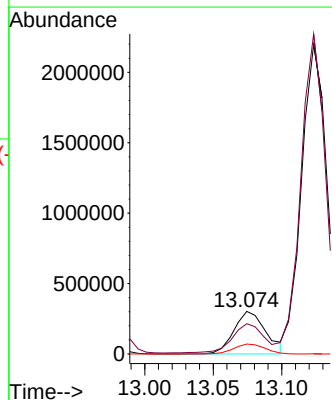
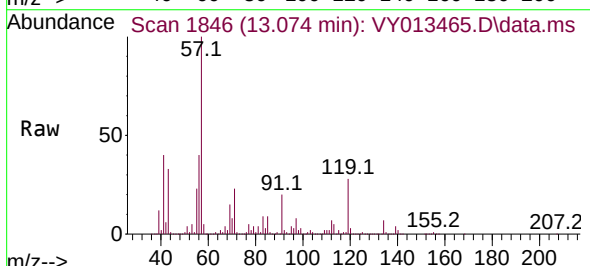
Tgt Ion:119 Resp: 488769

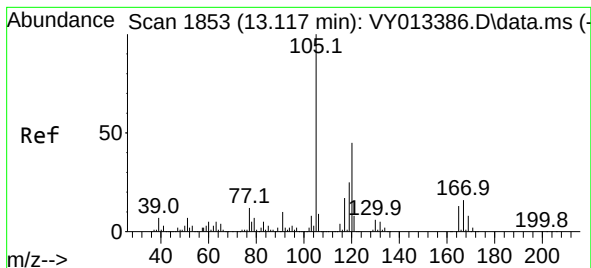
Ion Ratio Lower Upper

119 100

91 66.1 32.2 96.6

134 23.2 13.0 38.9





#84

1,2,4-Trimethylbenzene

Concen: 3069.472 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY013465.D

Acq: 26 Apr 2023 11:59

Instrument :

MSVOA_Y

ClientSampleId :

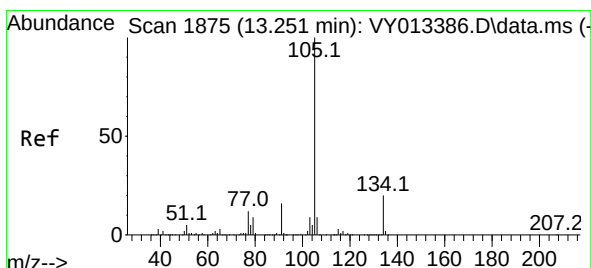
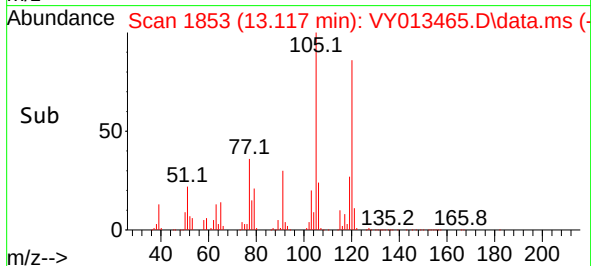
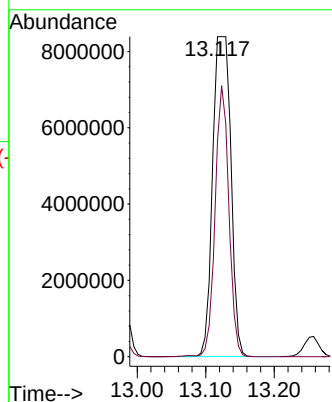
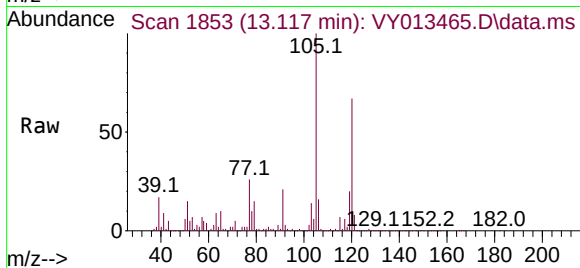
SPA-1WC-23-04

Tgt Ion:105 Resp:15479758

Ion Ratio Lower Upper

105 100

120 63.9 22.3 66.9



#85

sec-Butylbenzene

Concen: 119.653 ug/l

RT: 13.257 min Scan# 1876

Delta R.T. 0.006 min

Lab File: VY013465.D

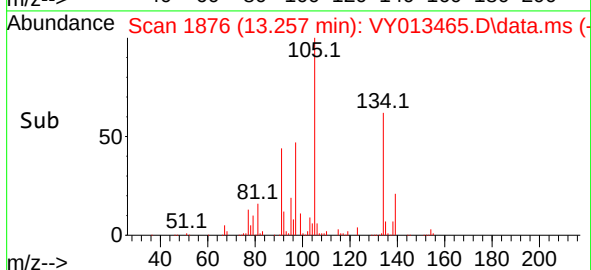
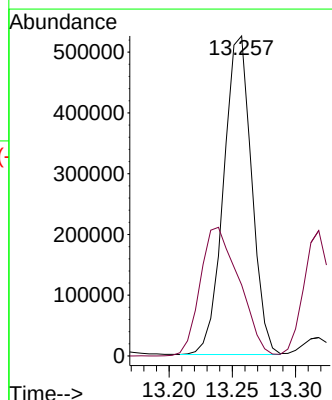
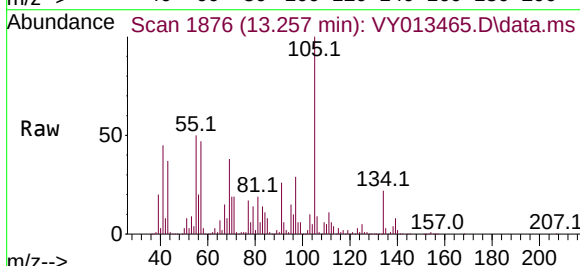
Acq: 26 Apr 2023 11:59

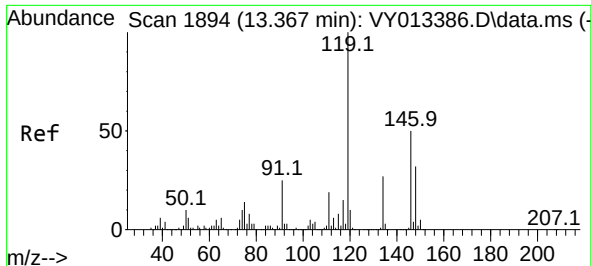
Tgt Ion:105 Resp: 807014

Ion Ratio Lower Upper

105 100

134 56.4 10.3 30.9#

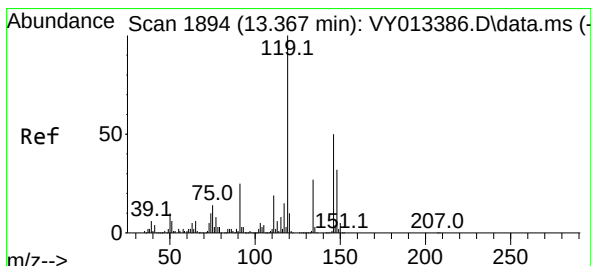
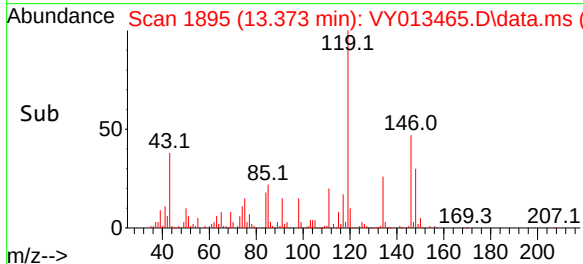
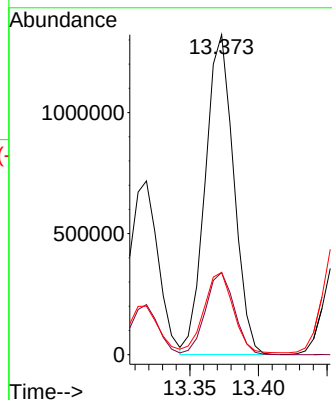
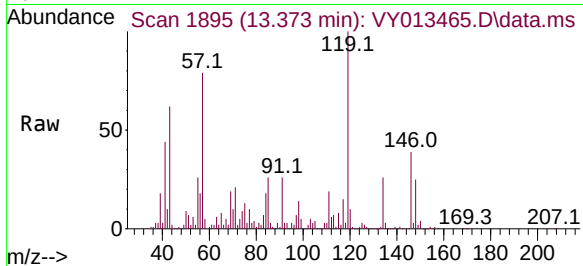




#86
p-Isopropyltoluene
Concen: 352.023 ug/l
RT: 13.373 min Scan# 1895
Delta R.T. 0.006 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

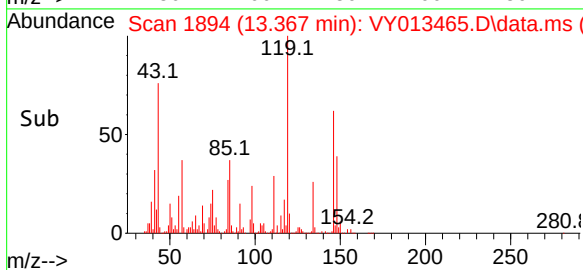
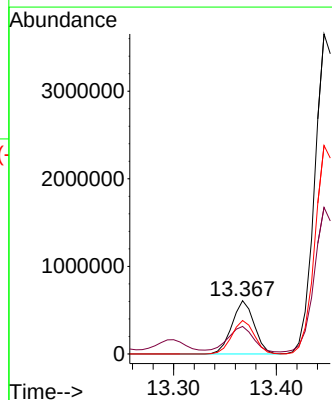
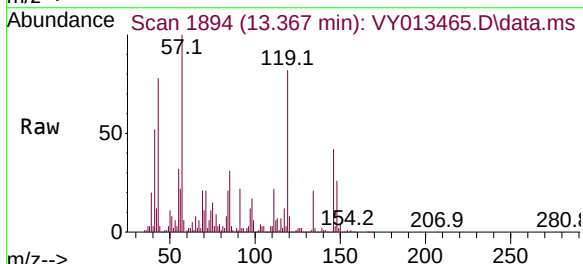
Instrument :
MSVOA_Y
ClientSampleId :
SPA-1WC-23-04

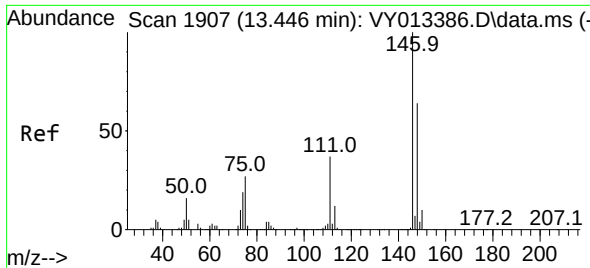
Tgt Ion:119 Resp: 1909317
Ion Ratio Lower Upper
119 100
134 25.9 13.4 40.2
91 25.6 12.1 36.3



#87
1,3-Dichlorobenzene
Concen: 310.981 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

Tgt Ion:146 Resp: 912352
Ion Ratio Lower Upper
146 100
111 53.8 19.3 57.9
148 63.6 31.9 95.7

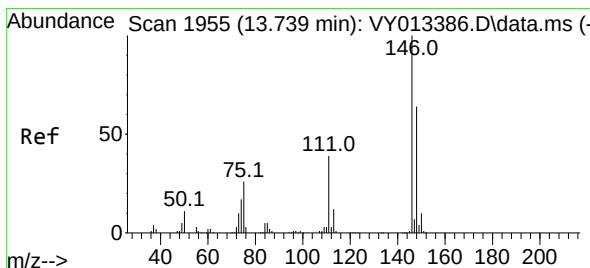
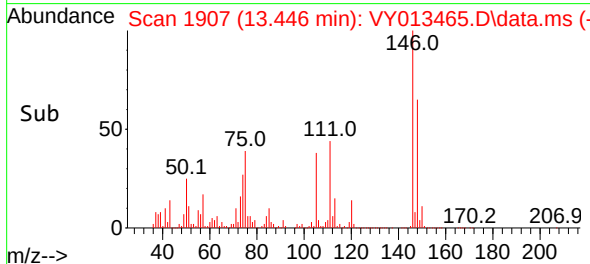
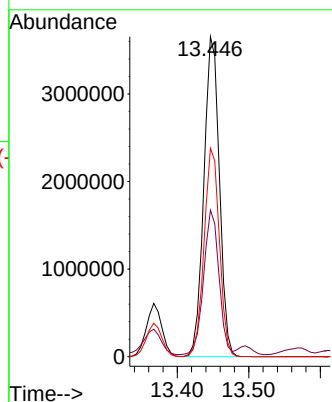
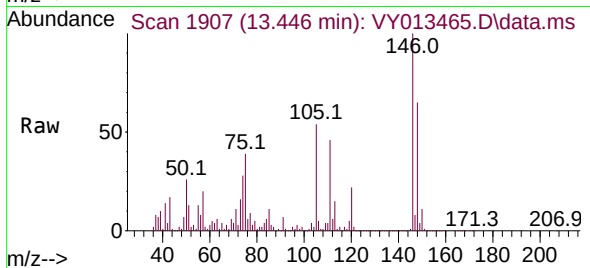




#88
 1,4-Dichlorobenzene
 Concen: 1856.715 ug/l
 RT: 13.446 min Scan# 1907
 Delta R.T. 0.000 min
 Lab File: VY013465.D
 Acq: 26 Apr 2023 11:59

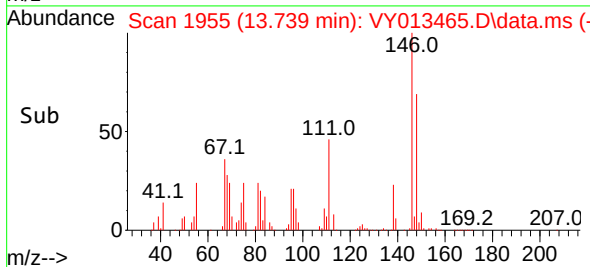
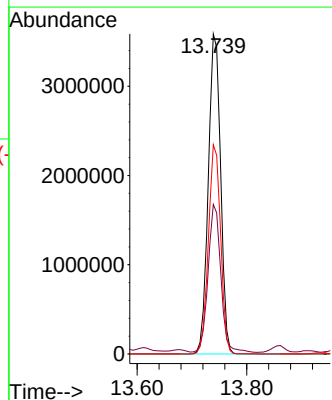
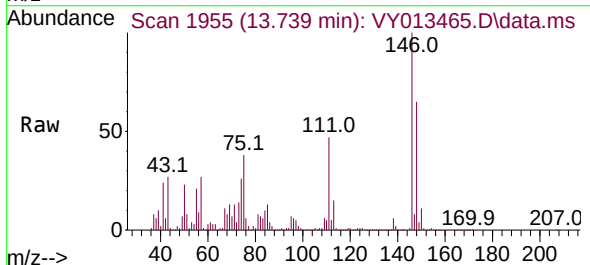
Instrument :
 MSVOA_Y
 ClientSampleId :
 SPA-1WC-23-04

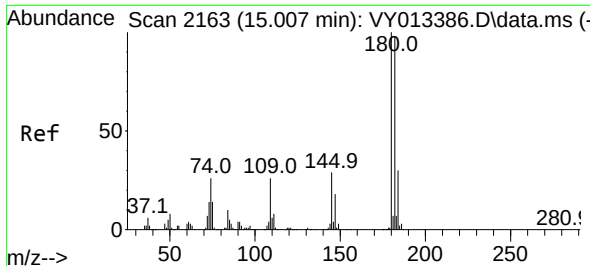
Tgt Ion:146 Resp: 5502527
 Ion Ratio Lower Upper
 146 100
 111 44.4 18.9 56.5
 148 64.5 31.9 95.5



#91
 1,2-Dichlorobenzene
 Concen: 2101.889 ug/l
 RT: 13.739 min Scan# 1955
 Delta R.T. -0.000 min
 Lab File: VY013465.D
 Acq: 26 Apr 2023 11:59

Tgt Ion:146 Resp: 5568516
 Ion Ratio Lower Upper
 146 100
 111 47.6 19.8 59.4
 148 64.7 31.8 95.4

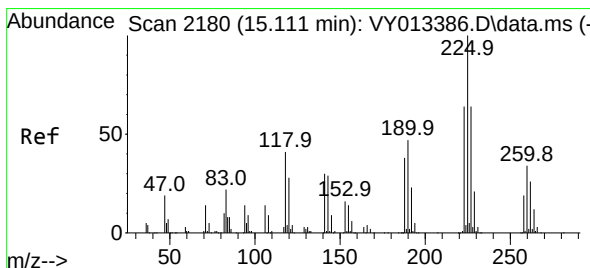
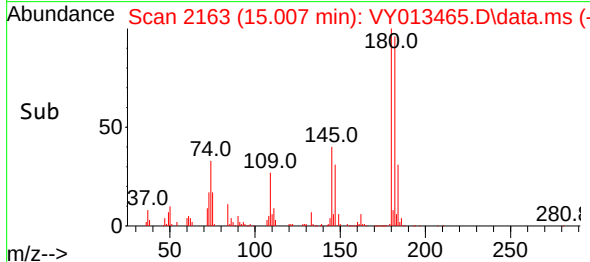
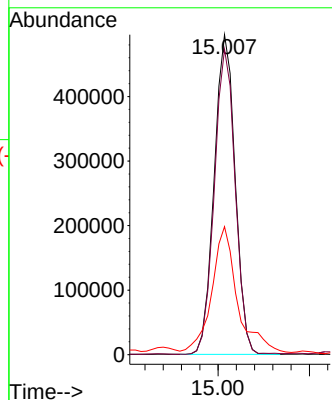
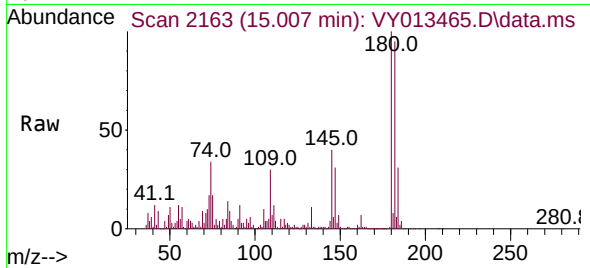




#93
1,2,4-Trichlorobenzene
Concen: 498.915 ug/l
RT: 15.007 min Scan# 2163
Delta R.T. 0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

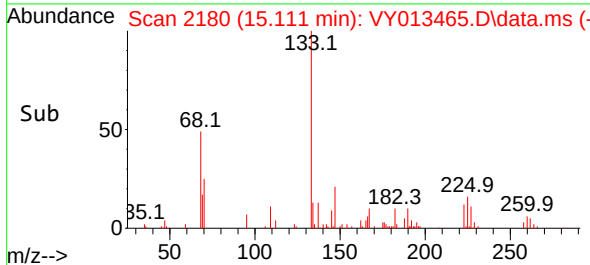
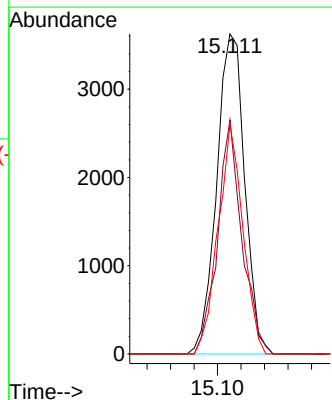
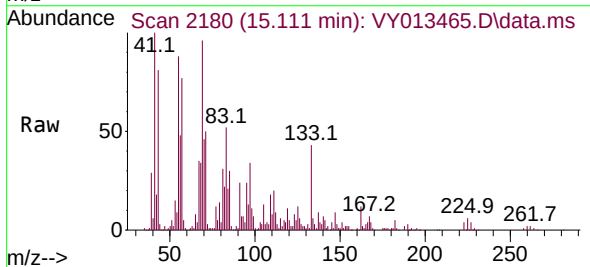
Instrument :
MSVOA_Y
ClientSampleId :
SPA-1WC-23-04

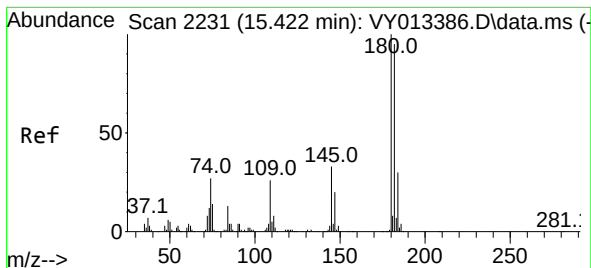
Tgt Ion:180 Resp: 788050
Ion Ratio Lower Upper
180 100
182 95.2 48.5 145.5
145 48.5 15.0 45.0#



#94
Hexachlorobutadiene
Concen: 6.528 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY013465.D
Acq: 26 Apr 2023 11:59

Tgt Ion:225 Resp: 6001
Ion Ratio Lower Upper
225 100
223 63.7 31.4 94.2
227 63.9 32.0 96.0





#96

1,2,3-Trichlorobenzene

Concen: 108.260 ug/l

RT: 15.422 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY013465.D

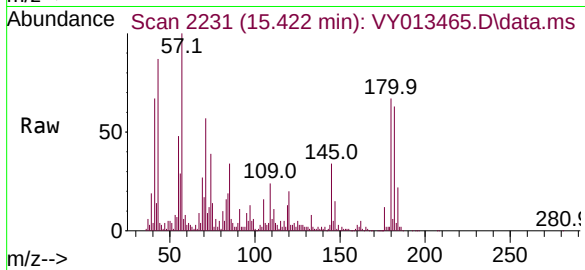
Acq: 26 Apr 2023 11:59

Instrument :

MSVOA_Y

ClientSampleId :

SPA-1WC-23-04



Tgt Ion:180 Resp: 152411

Ion Ratio Lower Upper

180 100

182 91.6 47.1 141.3

145 71.7 15.9 47.7#

