

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081523\
 Data File : VY015100.D
 Acq On : 15 Aug 2023 13:55
 Operator : SY/MD
 Sample : 03989-05
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-PP16

Quant Time: Aug 15 15:23:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

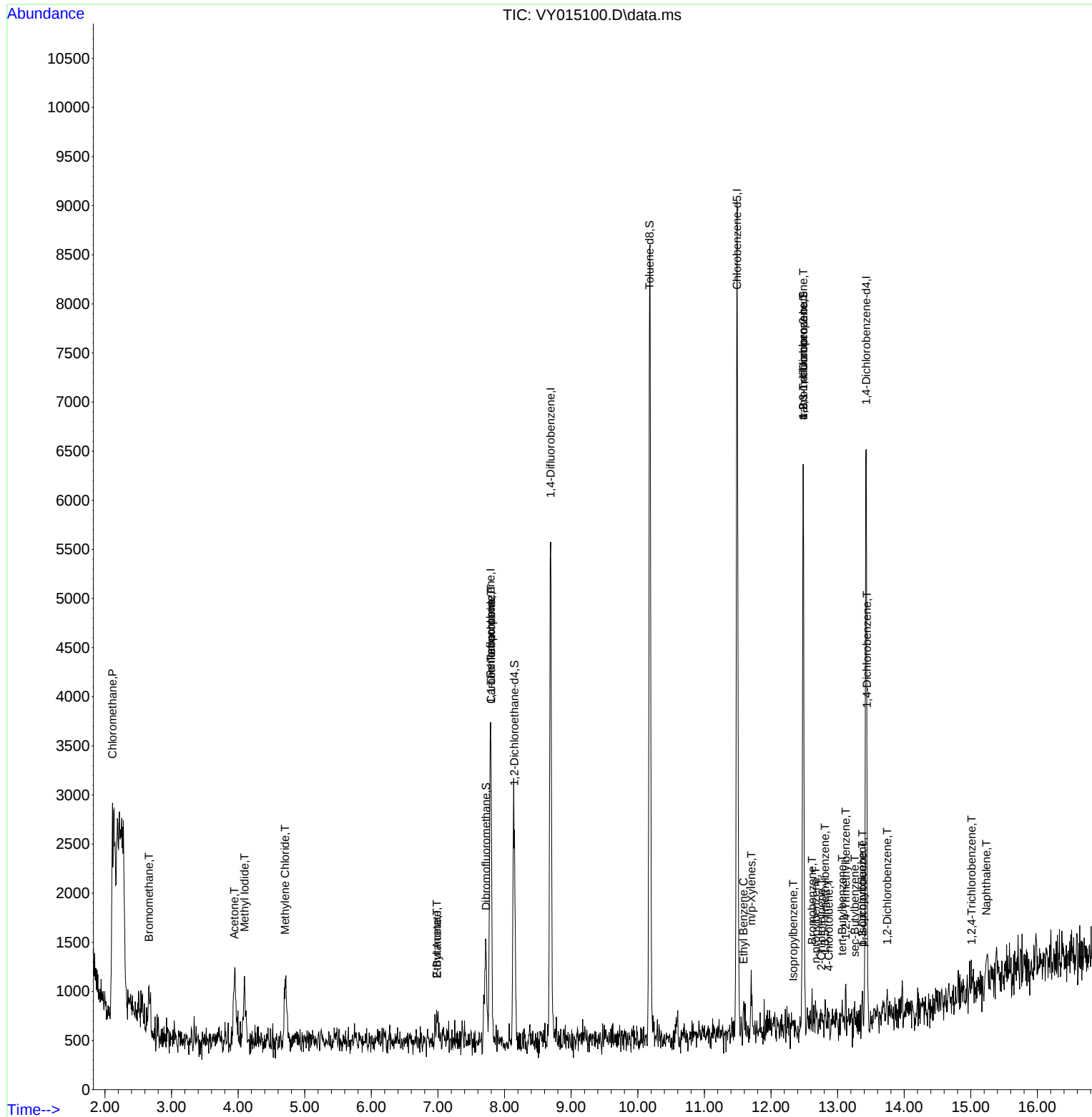
Internal Standards						
1) Pentafluorobenzene	7.789	168	3383	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.691	114	5386	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	4657	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	1720	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	2149	52.918	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.840%			
35) Dibromofluoromethane	7.722	113	898	25.916	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 51.840%#			
50) Toluene-d8	10.179	98	6093	47.237	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.480%			
62) 4-Bromofluorobenzene	12.483	95	1965	41.709	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 83.420%			
Target Compounds					Qvalue	
3) Chloromethane	2.113	50	760	36.593	ug/l	97
5) Bromomethane	2.662	94	304	14.098	ug/l	# 77
10) Methyl Iodide	4.095	142	933	33.705	ug/l	# 80
16) Acetone	3.942	43	1430	107.790	ug/l	# 85
20) Methylene Chloride	4.704	84	597	15.815	ug/l	# 61
25) 2-Butanone	6.984	43	134	7.134	ug/l	# 49
36) 1,1-Dichloropropene	7.795	75	151	3.939	ug/l	# 41
37) Ethyl Acetate	6.984	43	134	3.750	ug/l	# 71
38) Carbon Tetrachloride	7.795	117	274	6.040	ug/l	# 12
67) Ethyl Benzene	11.587	91	364	2.448	ug/l	# 44
68) m/p-Xylenes	11.703	106	167	2.958	ug/l	# 7
73) Isopropylbenzene	12.337	105	113	1.022	ug/l	# 48
76) 1,2,3-Trichloropropane	12.483	75	1202	57.521	ug/l	# 100
77) Bromobenzene	12.617	156	35	1.298	ug/l	# 53
78) n-propylbenzene	12.672	91	209	1.591	ug/l	# 53
79) 2-Chlorotoluene	12.758	91	164	2.165	ug/l	# 40
80) 1,3,5-Trimethylbenzene	12.813	105	157	1.703	ug/l	# 29
81) trans-1,4-Dichloro-2-b...	12.483	75	1202	126.344	ug/l	# 10
82) 4-Chlorotoluene	12.867	91	133	1.699	ug/l	# 40
83) tert-Butylbenzene	13.069	119	131	1.553	ug/l	# 61
84) 1,2,4-Trimethylbenzene	13.123	105	128	1.389	ug/l	# 56
85) sec-Butylbenzene	13.258	105	135	1.093	ug/l	# 56
86) p-Isopropyltoluene	13.373	119	148	1.445	ug/l	# 49
87) 1,3-Dichlorobenzene	13.373	146	123	2.300	ug/l	# 50
88) 1,4-Dichlorobenzene	13.440	146	169	3.151	ug/l	# 60
91) 1,2-Dichlorobenzene	13.745	146	138	2.763	ug/l	# 54
93) 1,2,4-Trichlorobenzene	15.013	180	40	1.247	ug/l	# 13
95) Naphthalene	15.233	128	515	6.447	ug/l	# 69

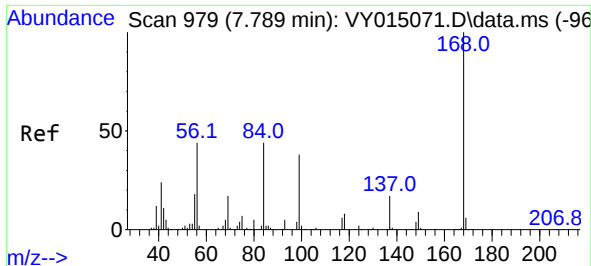
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Aug 14 12:43:26 2023
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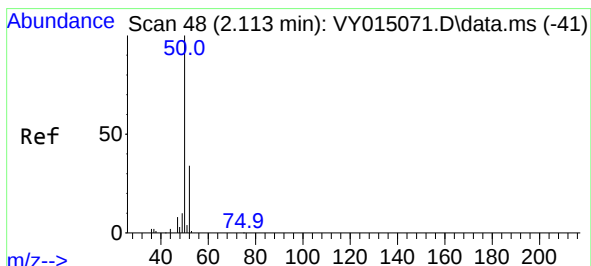
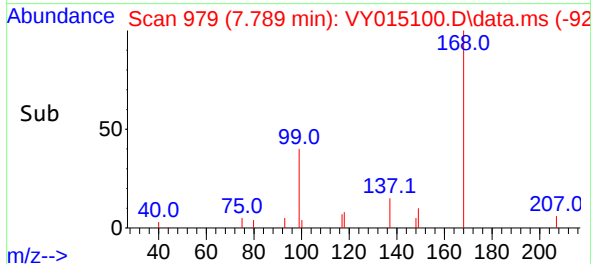
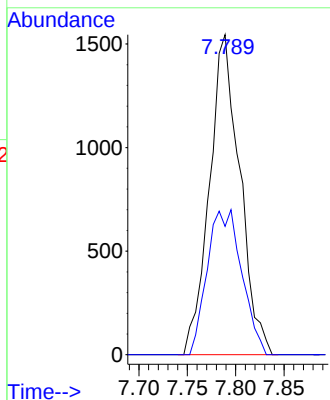
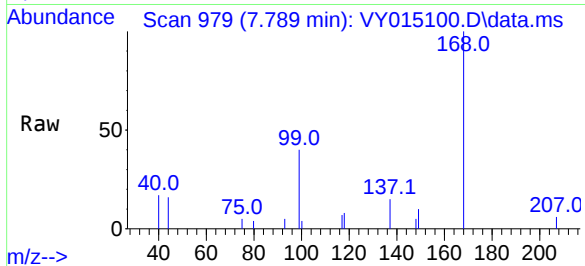




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

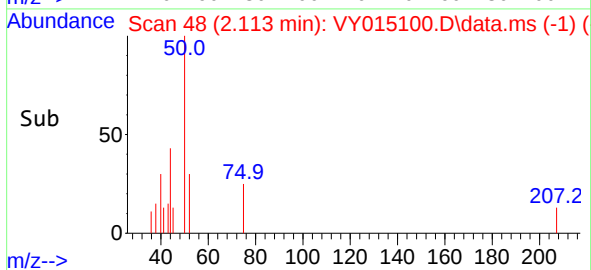
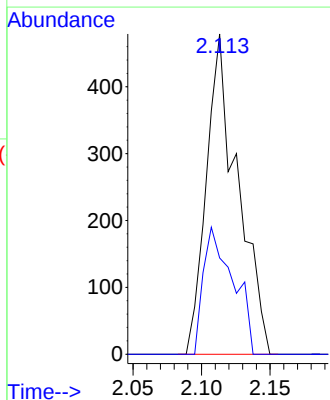
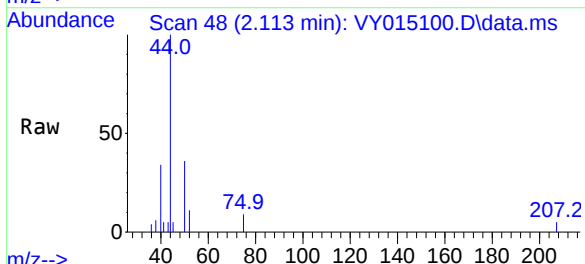
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

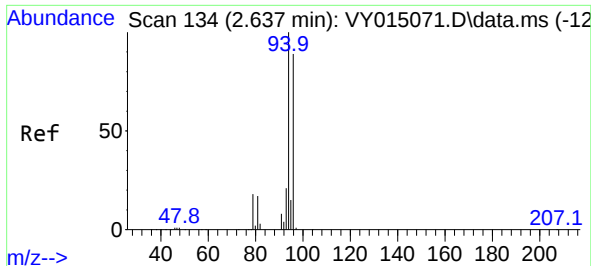
Tgt Ion:168 Resp: 3383
Ion Ratio Lower Upper
168 100
99 40.1 43.4 65.0#



#3
Chloromethane
Concen: 36.593 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion: 50 Resp: 760
Ion Ratio Lower Upper
50 100
52 30.1 25.4 38.2

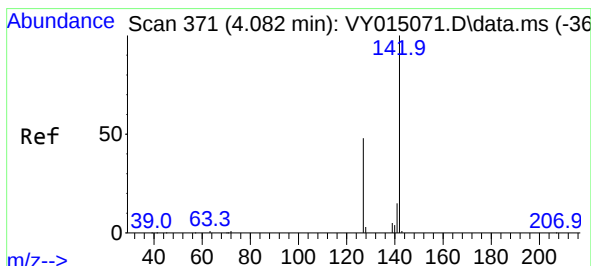
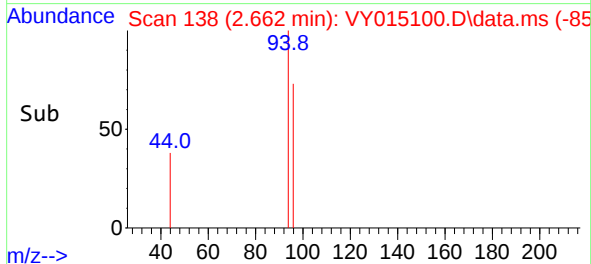
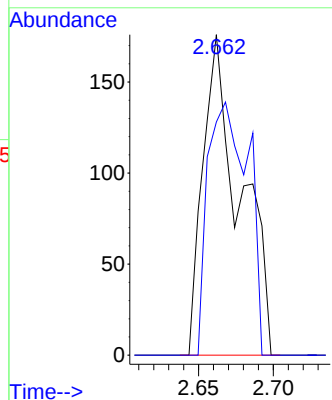
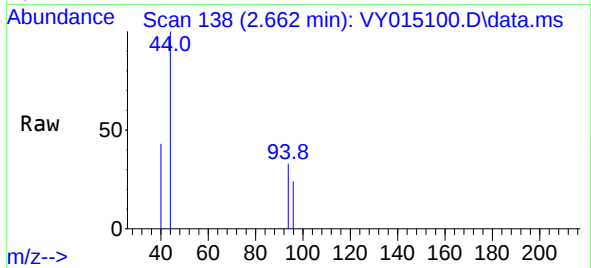




#5
Bromomethane
Concen: 14.098 ug/l
RT: 2.662 min Scan# 11
Delta R.T. 0.025 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

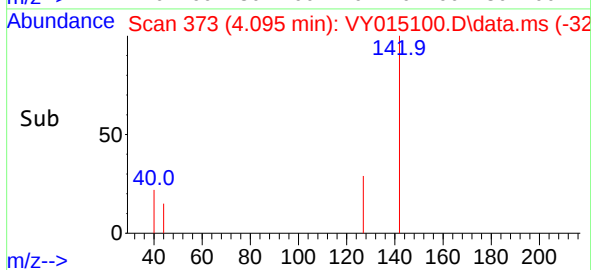
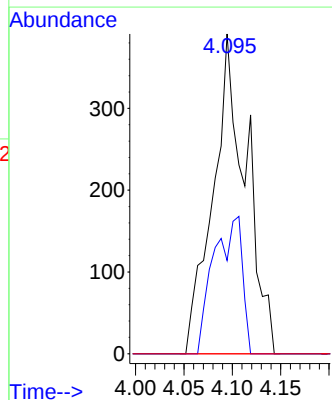
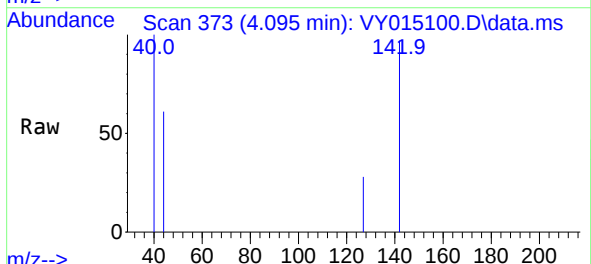
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

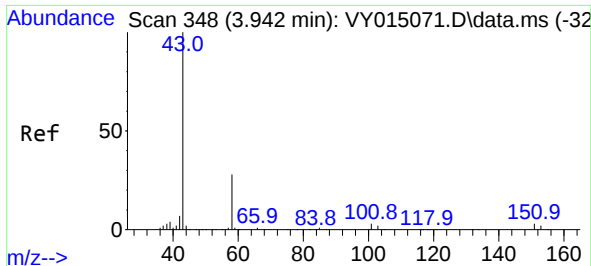
Tgt Ion: 94 Resp: 304
Ion Ratio Lower Upper
94 100
96 72.7 75.8 113.6#



#10
Methyl Iodide
Concen: 33.705 ug/l
RT: 4.095 min Scan# 373
Delta R.T. 0.012 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion:142 Resp: 933
Ion Ratio Lower Upper
142 100
127 36.9 37.6 56.4#
141 0.0 11.8 17.8#

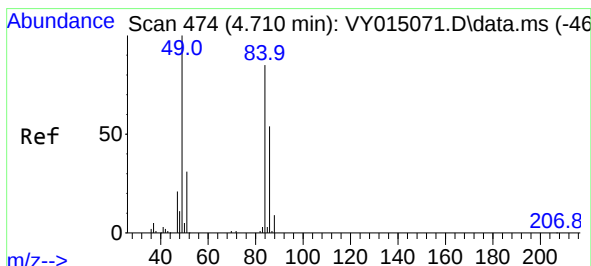
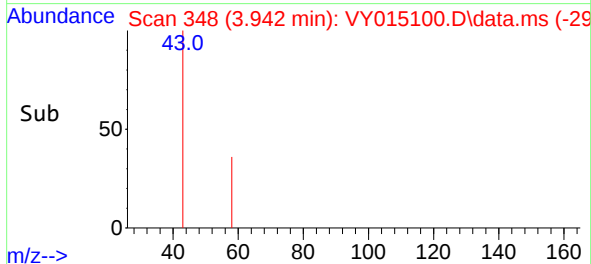
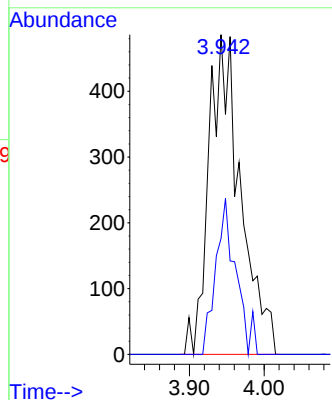
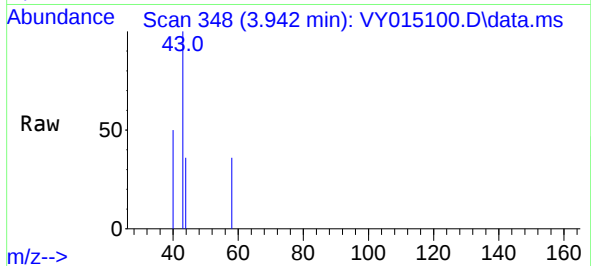




#16
Acetone
Concen: 107.790 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

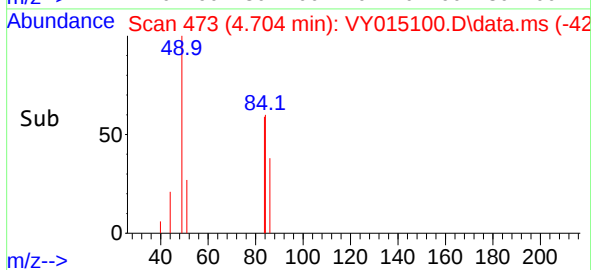
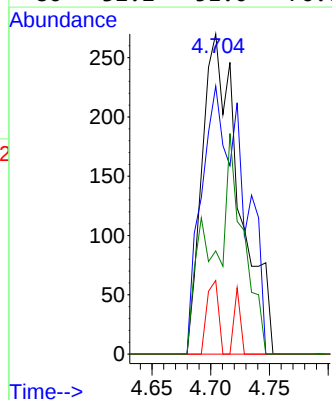
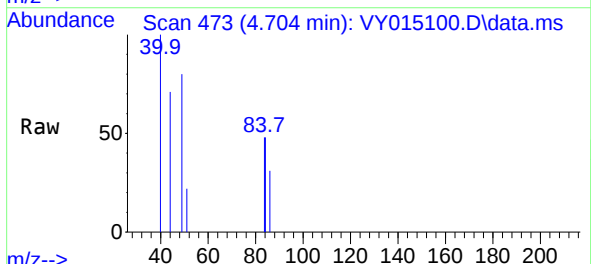
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

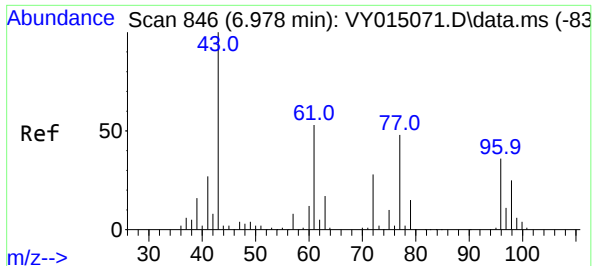
Tgt Ion: 43 Resp: 1430
Ion Ratio Lower Upper
43 100
58 36.2 22.7 34.1#



#20
Methylene Chloride
Concen: 15.815 ug/l
RT: 4.704 min Scan# 473
Delta R.T. -0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion: 84 Resp: 597
Ion Ratio Lower Upper
84 100
49 83.7 106.9 160.3#
51 23.0 33.2 49.8#
86 32.2 51.0 76.6#





#25

2-Butanone

Concen: 7.134 ug/l

RT: 6.984 min Scan# 846

Delta R.T. 0.006 min

Lab File: VY015100.D

Acq: 15 Aug 2023 13:55

Instrument :

MSVOA_Y

ClientSampleId :

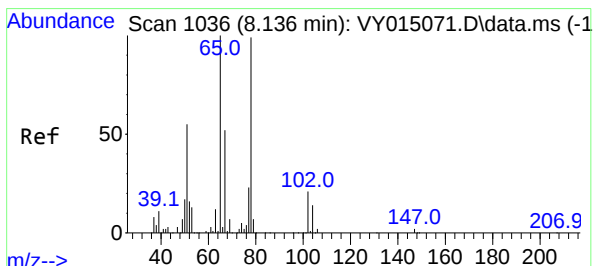
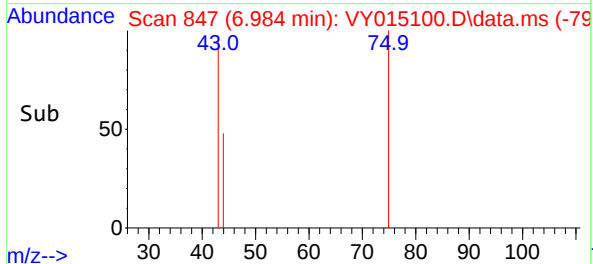
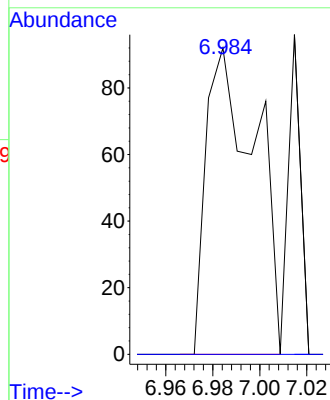
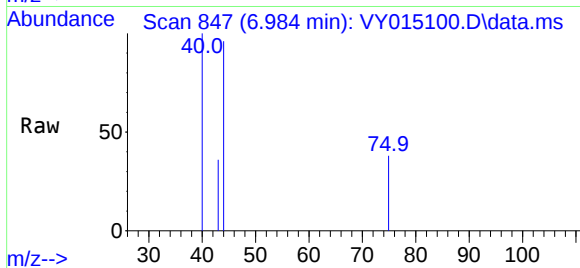
B-PP16

Tgt Ion: 43 Resp: 134

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#



#33

1,2-Dichloroethane-d4

Concen: 52.918 ug/l

RT: 8.149 min Scan# 1038

Delta R.T. 0.012 min

Lab File: VY015100.D

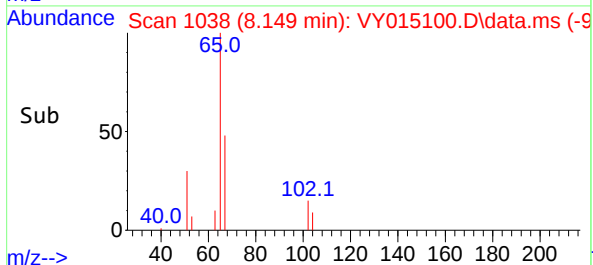
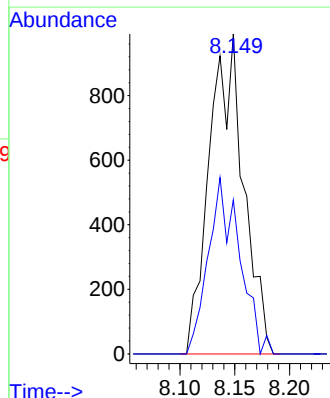
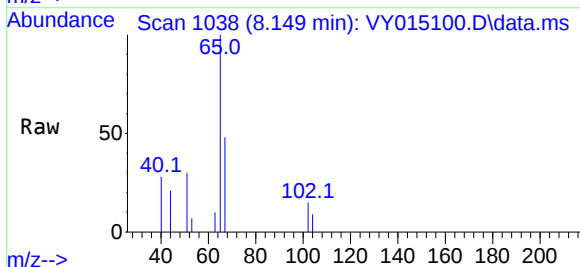
Acq: 15 Aug 2023 13:55

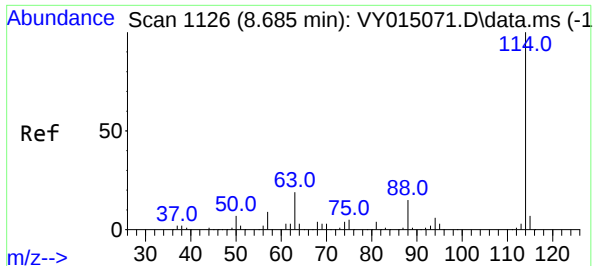
Tgt Ion: 65 Resp: 2149

Ion Ratio Lower Upper

65 100

67 50.2 0.0 101.8

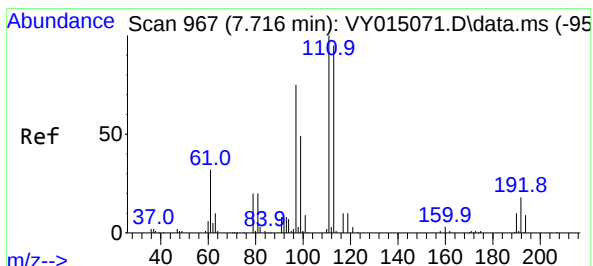
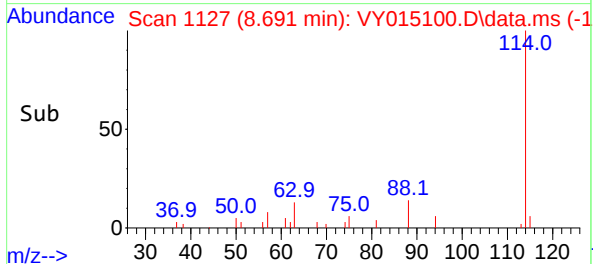
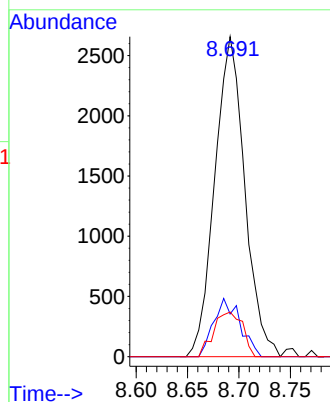
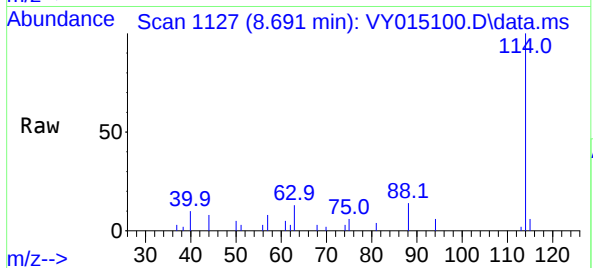




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

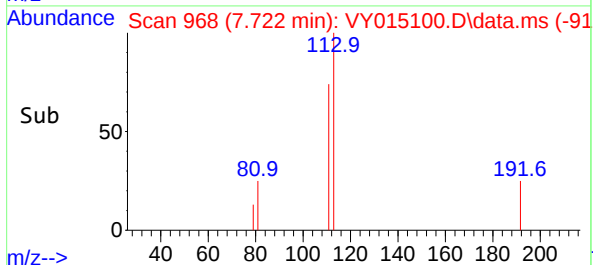
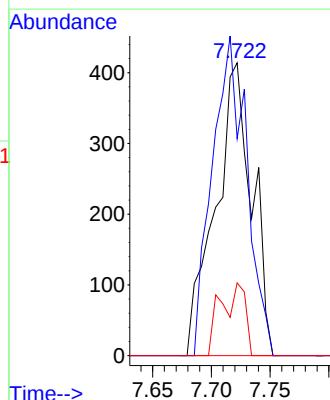
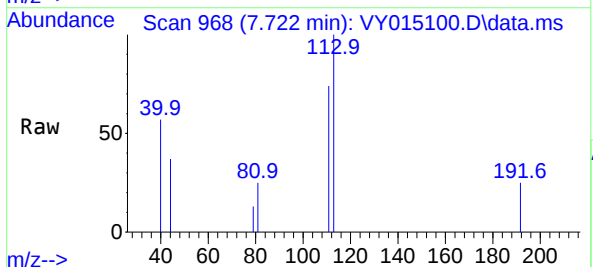
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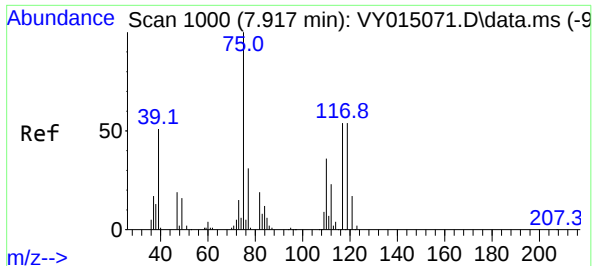
Tgt Ion:114	Resp:	5386
Ion	Ratio	Lower Upper
114	100	
63	13.3	0.0 42.4
88	14.0	0.0 30.6



#35
Dibromofluoromethane
Concen: 25.916 ug/l
RT: 7.722 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion:113	Resp:	898
Ion	Ratio	Lower Upper
113	100	
111	102.4	81.3 121.9
192	16.5	16.9 25.3





#36

1,1-Dichloropropene

Concen: 3.939 ug/l

RT: 7.795 min Scan# 91

Delta R.T. -0.116 min

Lab File: VY015100.D

Acq: 15 Aug 2023 13:55

Instrument :

MSVOA_Y

ClientSampleId :

B-PP16

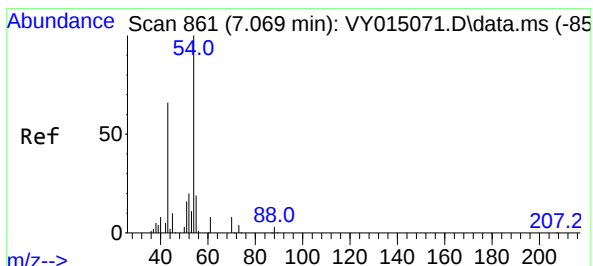
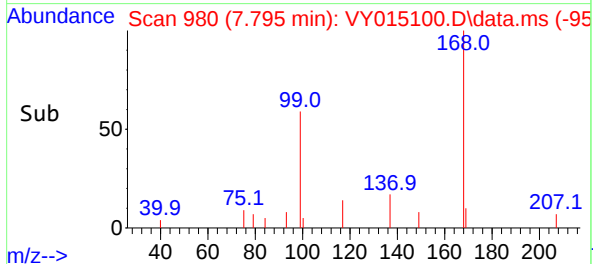
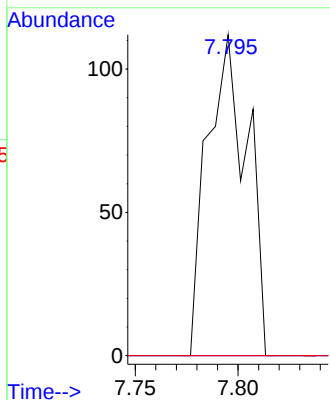
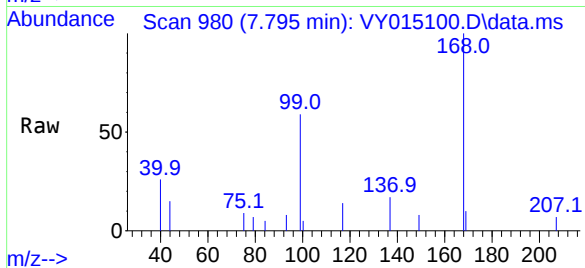
Tgt Ion: 75 Resp: 151

Ion Ratio Lower Upper

75 100

110 0.0 17.8 53.5#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 3.750 ug/l

RT: 6.984 min Scan# 847

Delta R.T. -0.085 min

Lab File: VY015100.D

Acq: 15 Aug 2023 13:55

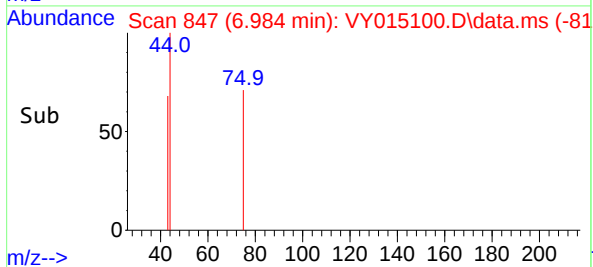
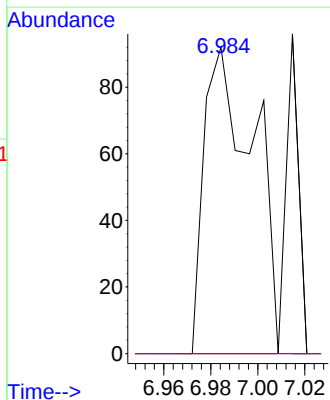
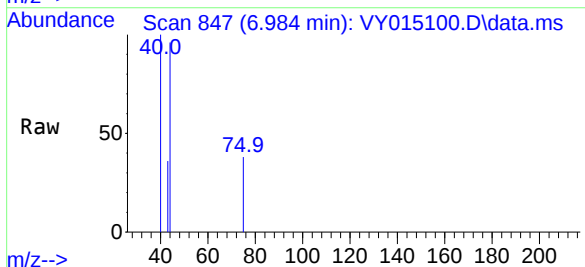
Tgt Ion: 43 Resp: 134

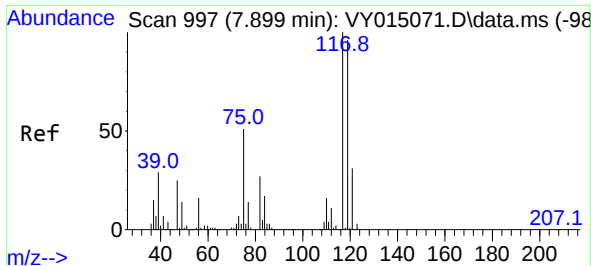
Ion Ratio Lower Upper

43 100

61 0.0 10.1 15.1#

70 0.0 7.1 10.7#

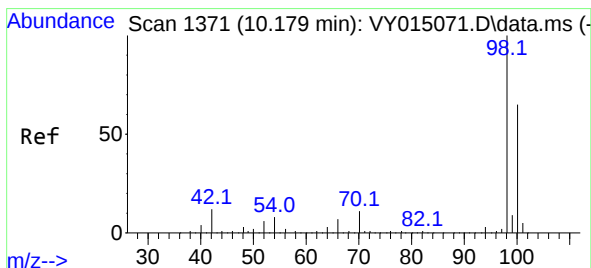
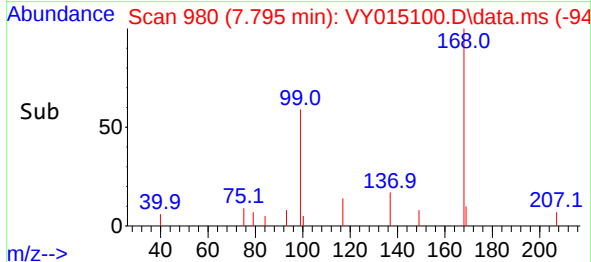
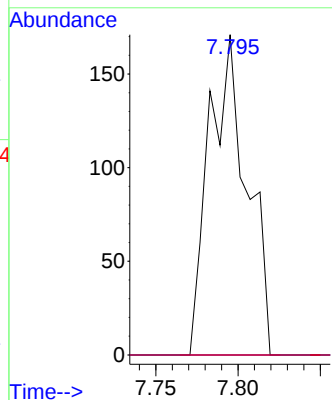
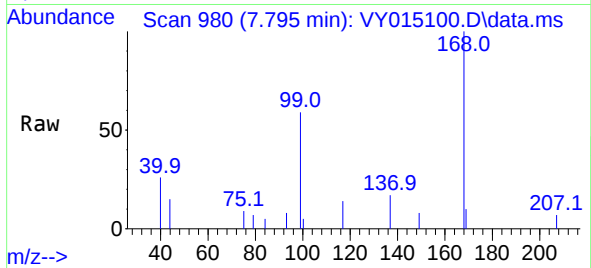




#38
Carbon Tetrachloride
Concen: 6.040 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.103 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

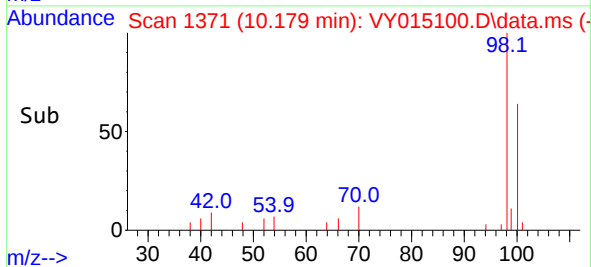
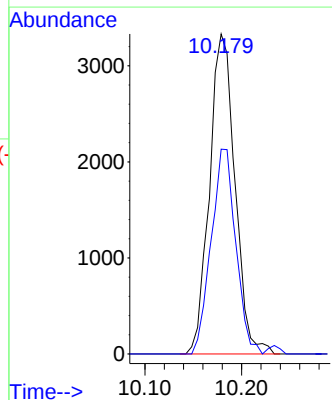
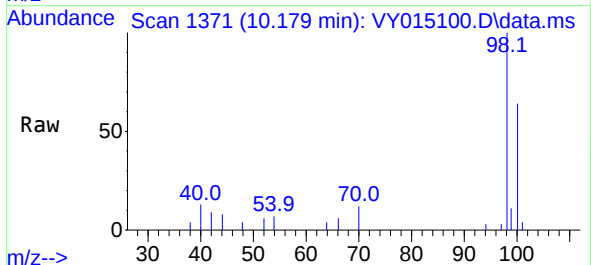
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

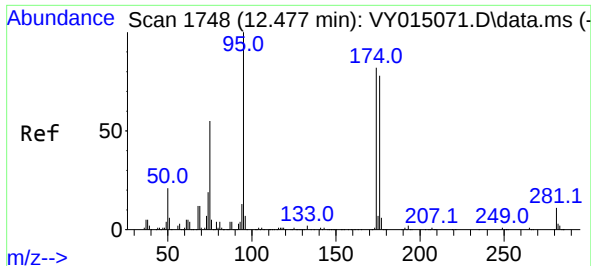
Tgt Ion:117 Resp: 274
Ion Ratio Lower Upper
117 100
119 0.0 76.4 114.6#
121 0.0 25.8 38.6#



#50
Toluene-d8
Concen: 47.237 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion: 98 Resp: 6093
Ion Ratio Lower Upper
98 100
100 61.9 50.1 75.1

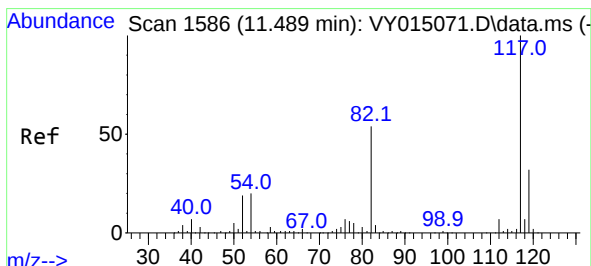
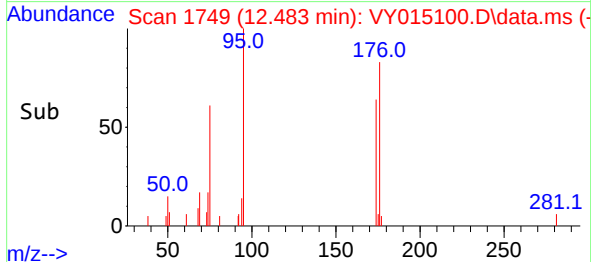
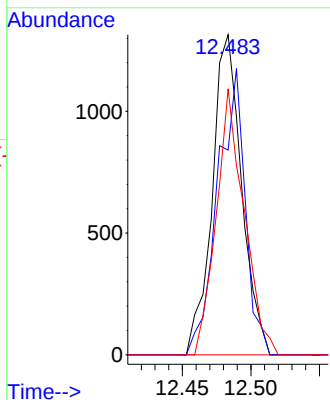
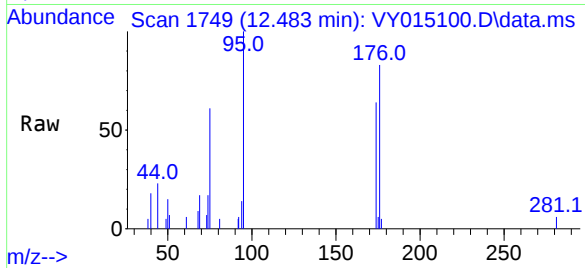




#62
4-Bromofluorobenzene
Concen: 41.709 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

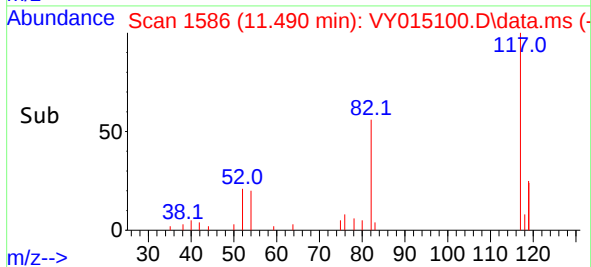
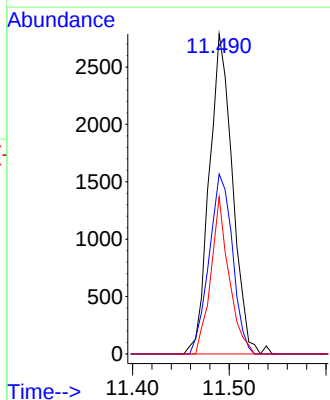
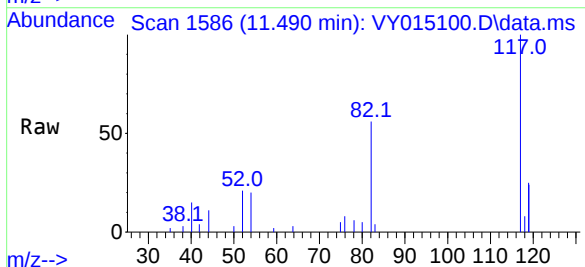
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

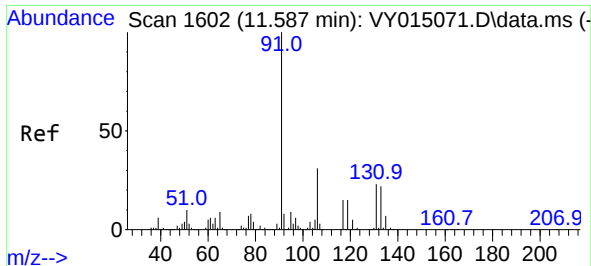
Tgt Ion: 95 Resp: 1965
Ion Ratio Lower Upper
95 100
174 83.5 0.0 178.2
176 78.7 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion: 117 Resp: 4657
Ion Ratio Lower Upper
117 100
82 56.2 43.4 65.0
119 49.1 26.3 39.5#





#67

Ethyl Benzene

Concen: 2.448 ug/l

RT: 11.587 min Scan# 1602

Delta R.T. 0.000 min

Lab File: VY015100.D

Acq: 15 Aug 2023 13:55

Instrument :

MSVOA_Y

ClientSampleId :

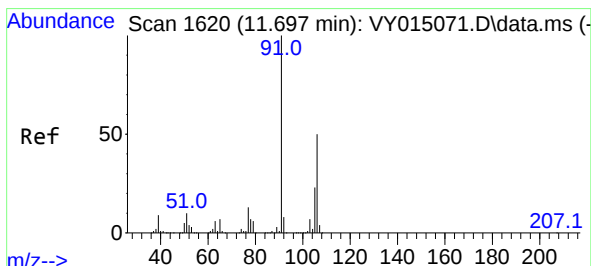
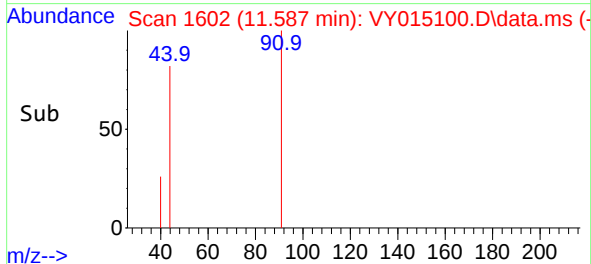
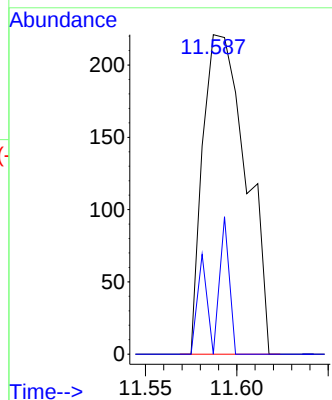
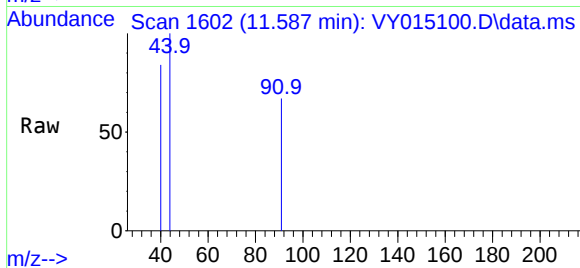
B-PP16

Tgt Ion: 91 Resp: 364

Ion Ratio Lower Upper

91 100

106 0.0 24.6 36.8#



#68

m/p-Xylenes

Concen: 2.958 ug/l

RT: 11.703 min Scan# 1621

Delta R.T. 0.006 min

Lab File: VY015100.D

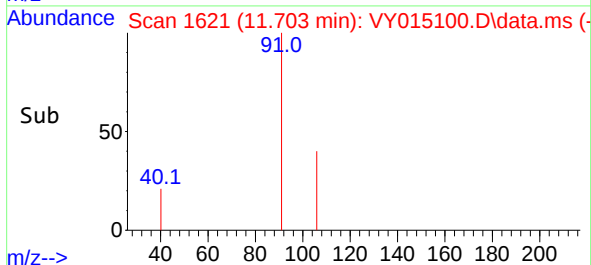
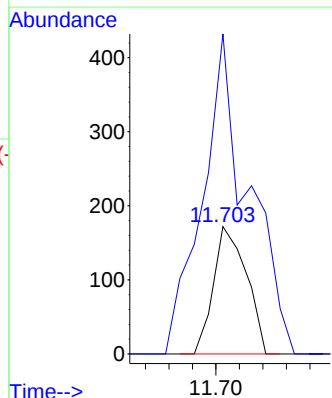
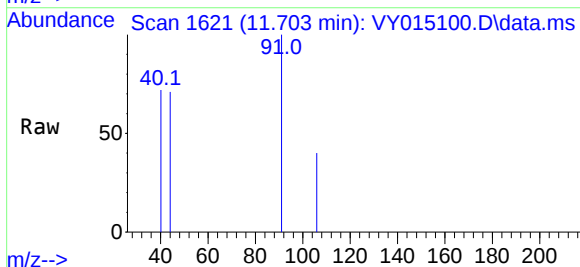
Acq: 15 Aug 2023 13:55

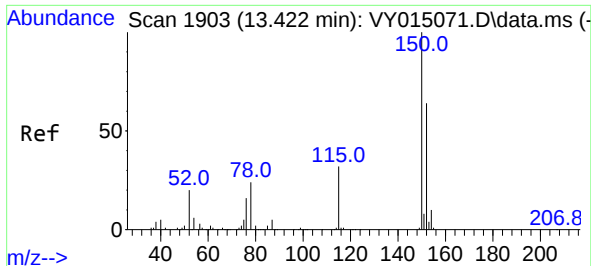
Tgt Ion: 106 Resp: 167

Ion Ratio Lower Upper

106 100

91 352.1 166.1 249.1#

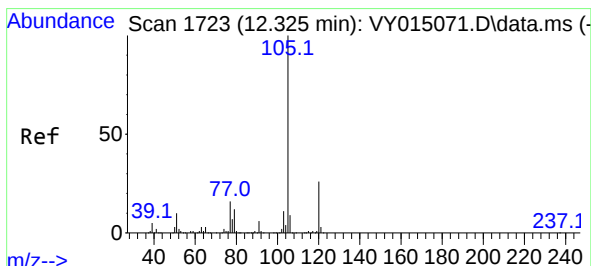
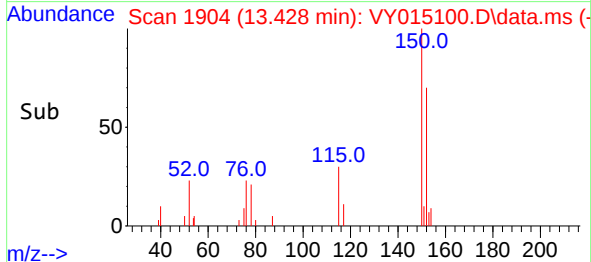
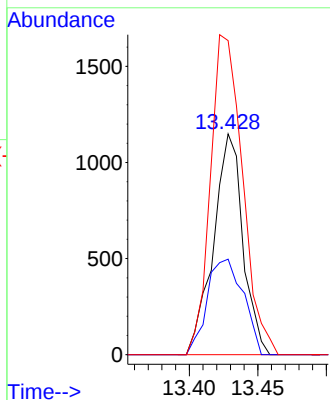
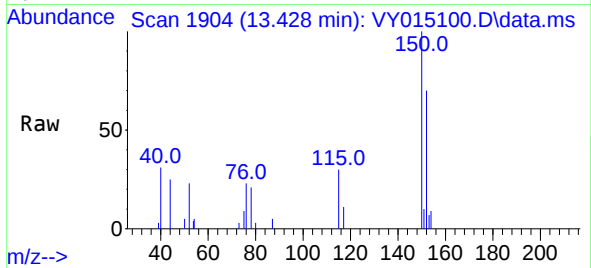




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1903
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

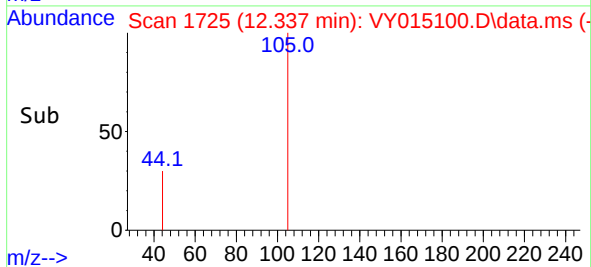
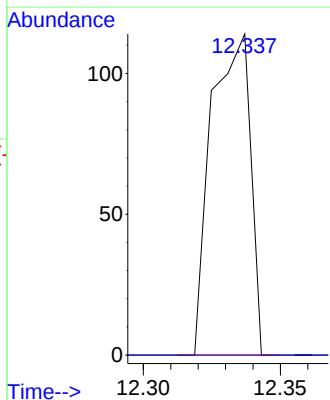
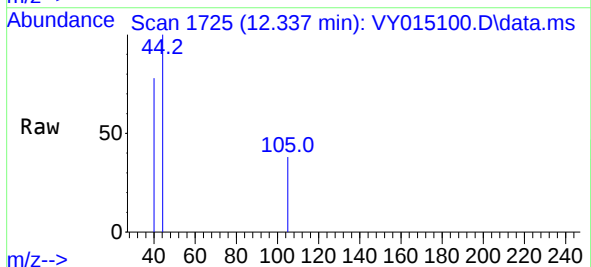
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

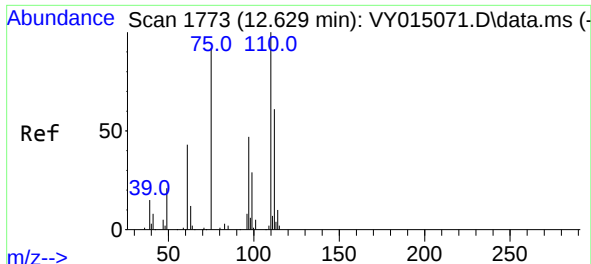
Tgt Ion:152 Resp: 1720
Ion Ratio Lower Upper
152 100
115 53.0 28.8 86.5
150 157.8 0.0 348.8



#73
Isopropylbenzene
Concen: 1.022 ug/l
RT: 12.337 min Scan# 1725
Delta R.T. 0.012 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion:105 Resp: 113
Ion Ratio Lower Upper
105 100
120 0.0 13.3 39.9#

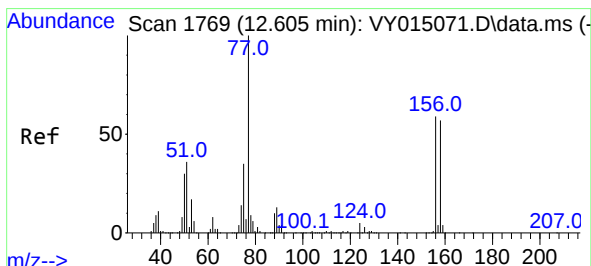
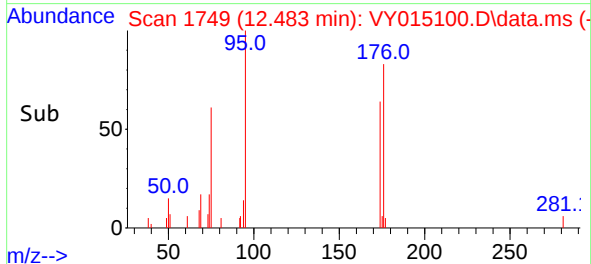
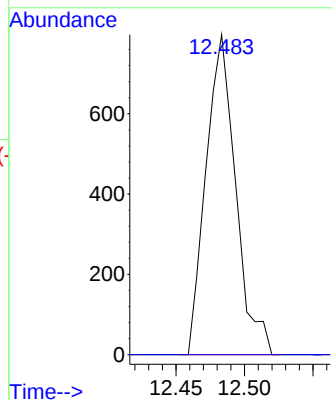
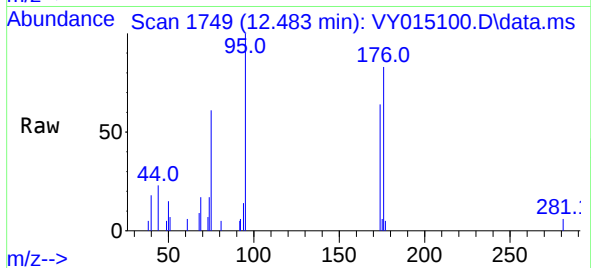




#76
1,2,3-Trichloropropane
Concen: 57.521 ug/l
RT: 12.483 min Scan# 11
Delta R.T. -0.146 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

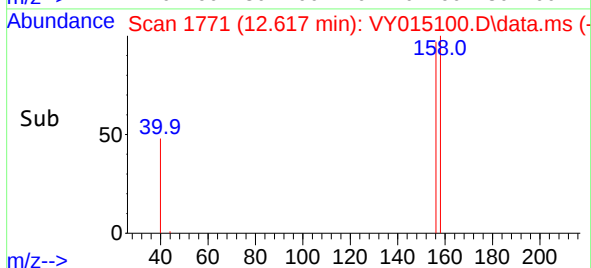
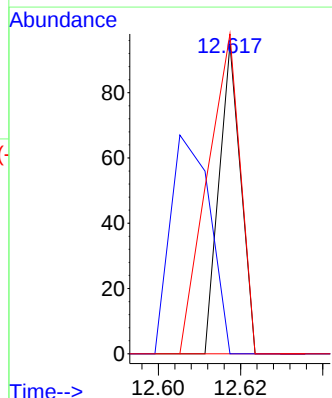
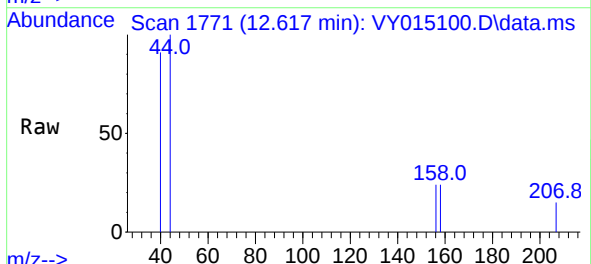
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

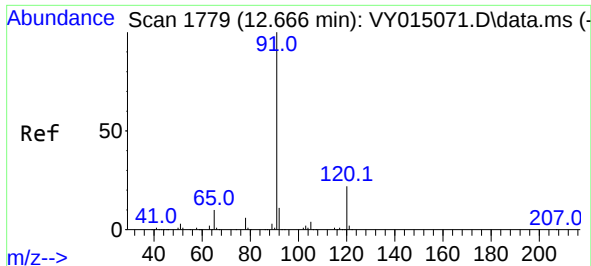
Tgt Ion: 75 Resp: 1202
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#77
Bromobenzene
Concen: 1.298 ug/l
RT: 12.617 min Scan# 1771
Delta R.T. 0.012 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion: 156 Resp: 35
Ion Ratio Lower Upper
156 100
77 128.6 92.8 278.6
158 157.1 48.4 145.3#

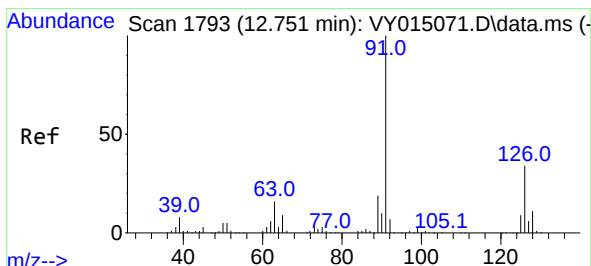
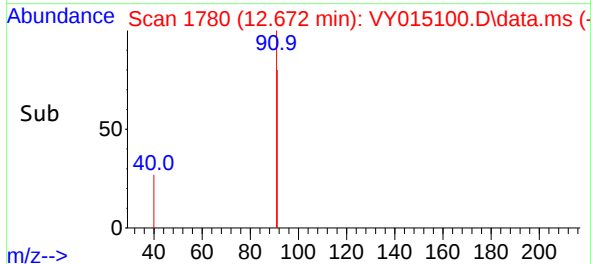
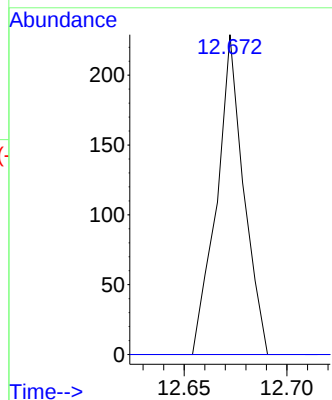
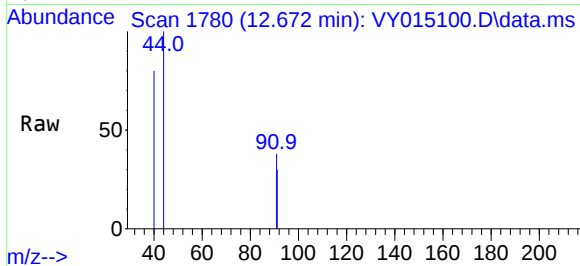




#78
n-propylbenzene
Concen: 1.591 ug/l
RT: 12.672 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

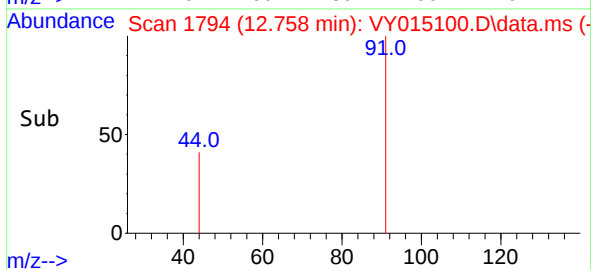
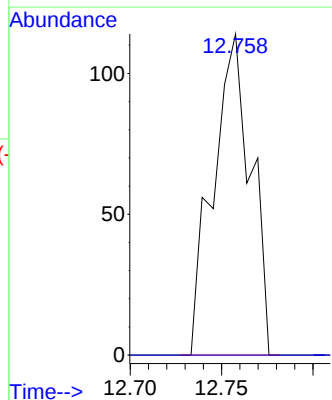
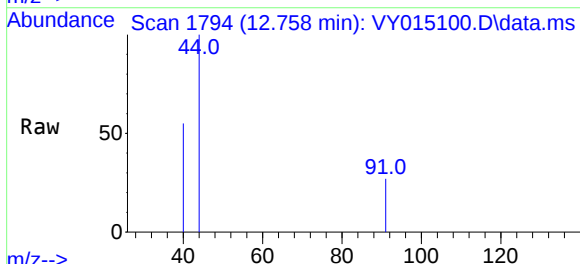
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

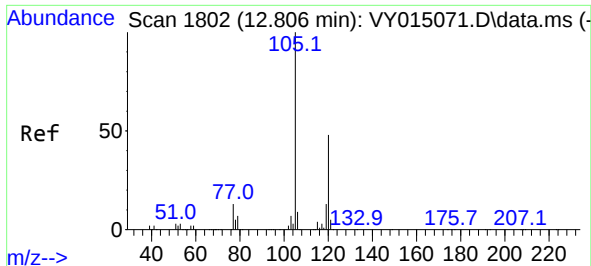
Tgt Ion: 91 Resp: 209
Ion Ratio Lower Upper
91 100
120 0.0 11.5 34.4#



#79
2-Chlorotoluene
Concen: 2.165 ug/l
RT: 12.758 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion: 91 Resp: 164
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.7#

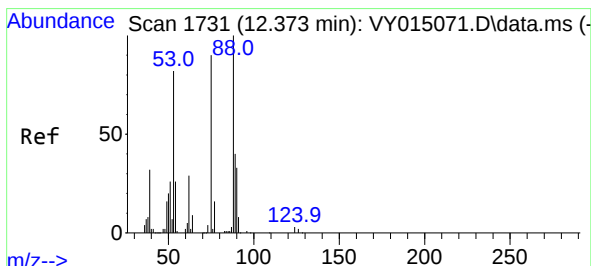
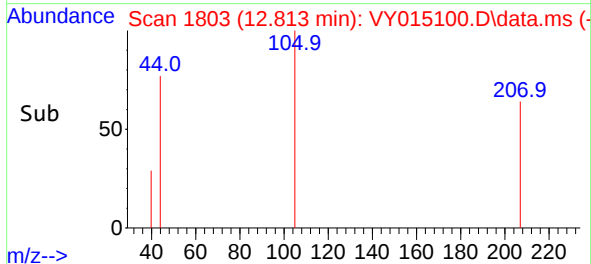
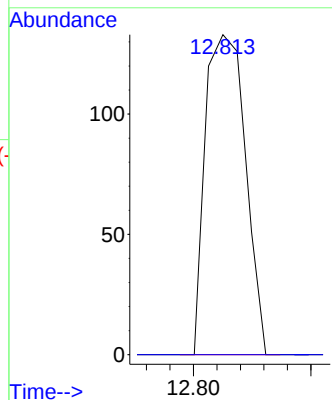
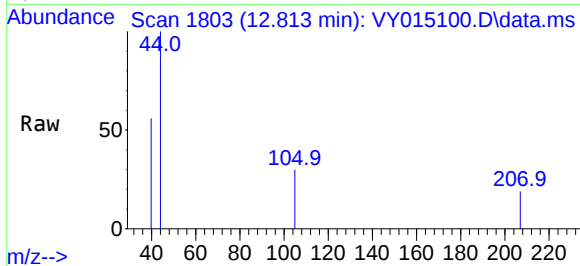




#80
 1,3,5-Trimethylbenzene
 Concen: 1.703 ug/l
 RT: 12.813 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VY015100.D
 Acq: 15 Aug 2023 13:55

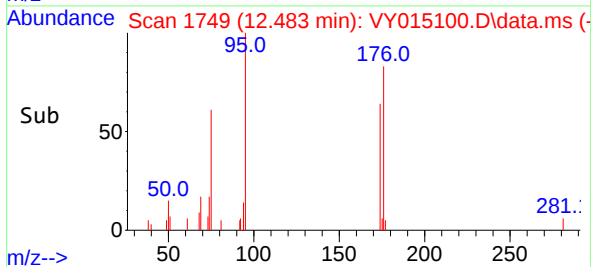
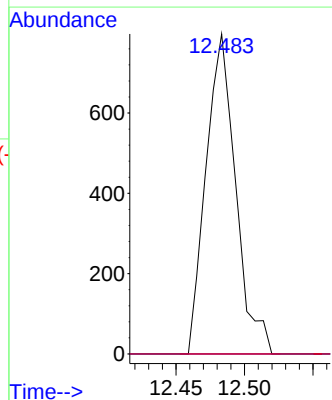
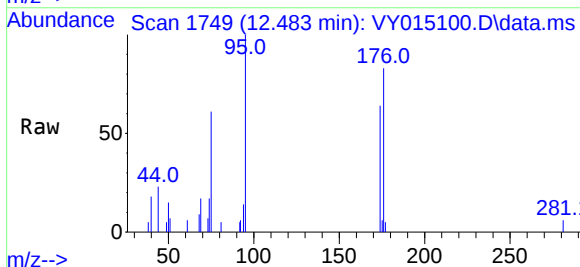
Instrument :
 MSVOA_Y
 ClientSampleId :
 B-PP16

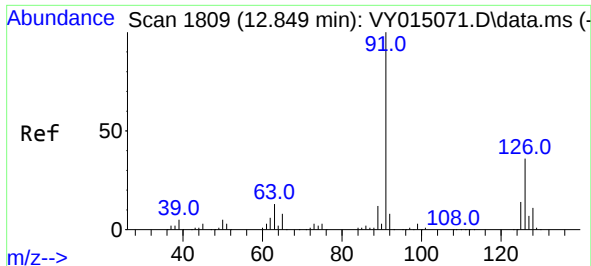
Tgt Ion:105 Resp: 157
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.9 71.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 126.344 ug/l
 RT: 12.483 min Scan# 1749
 Delta R.T. 0.110 min
 Lab File: VY015100.D
 Acq: 15 Aug 2023 13:55

Tgt Ion: 75 Resp: 1202
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.8 116.8#
 89 0.0 37.4 56.0#

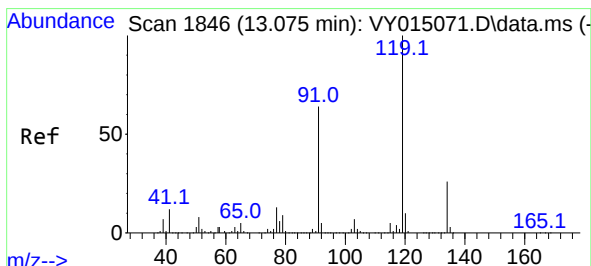
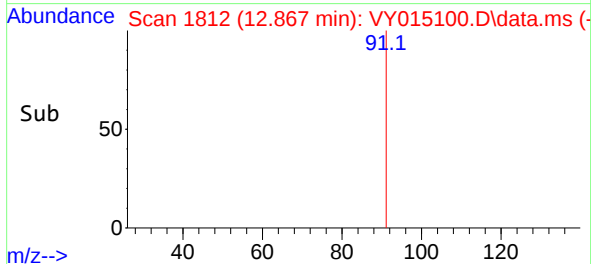
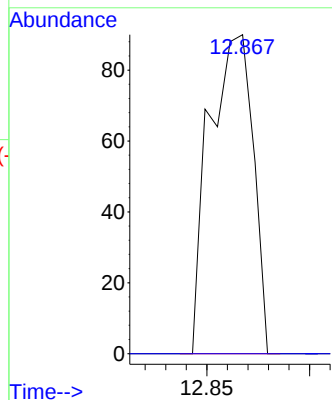
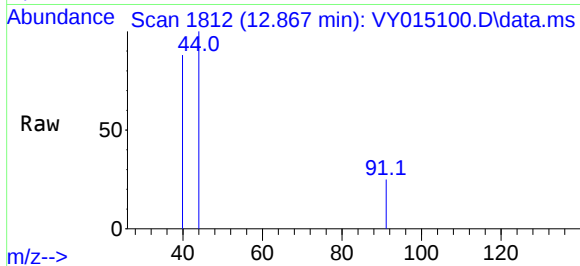




#82
4-Chlorotoluene
Concen: 1.699 ug/l
RT: 12.867 min Scan# 1812
Delta R.T. 0.012 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

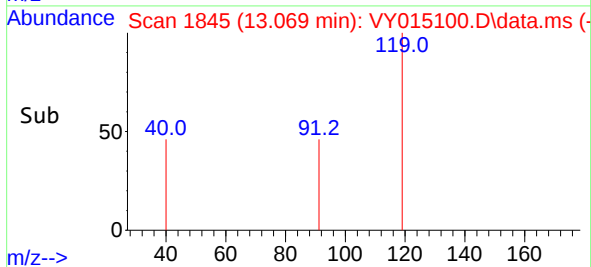
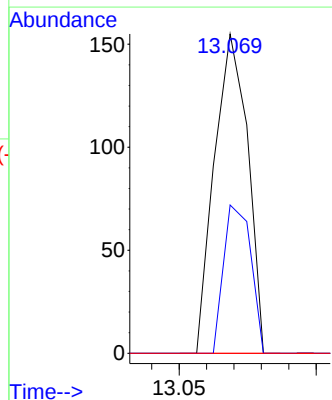
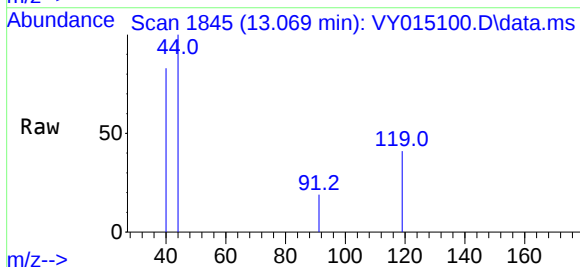
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

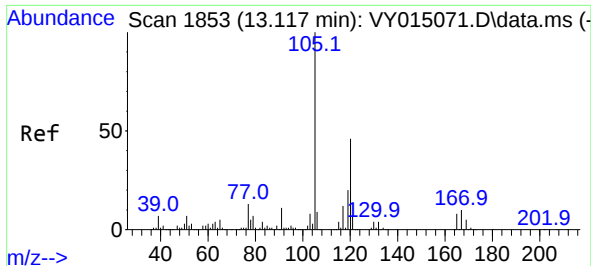
Tgt Ion: 91 Resp: 133
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#83
tert-Butylbenzene
Concen: 1.553 ug/l
RT: 13.069 min Scan# 1845
Delta R.T. -0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion: 119 Resp: 131
Ion Ratio Lower Upper
119 100
91 38.2 32.9 98.6
134 0.0 13.0 38.9#

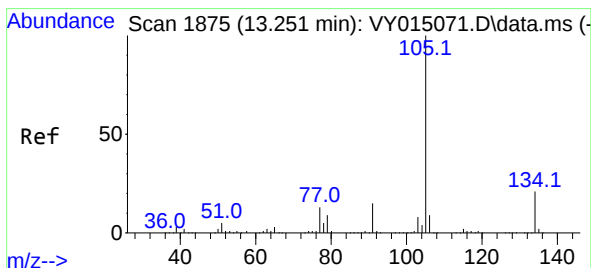
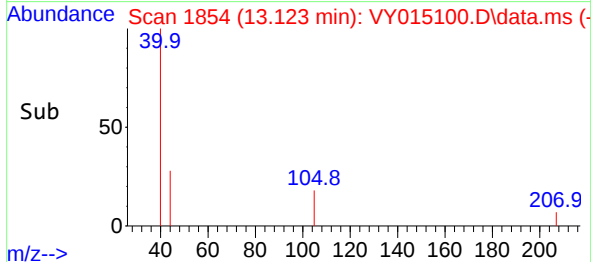
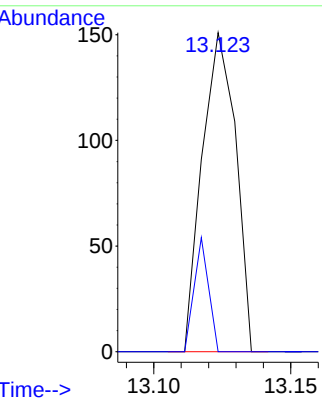
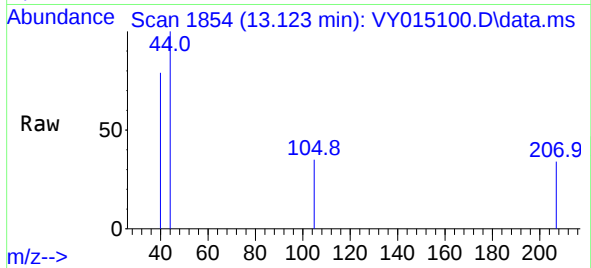




#84
1,2,4-Trimethylbenzene
Concen: 1.389 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

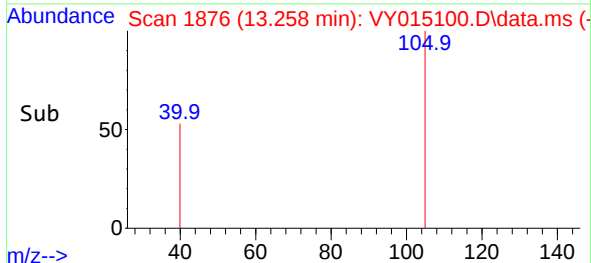
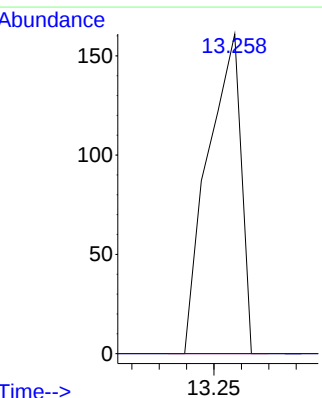
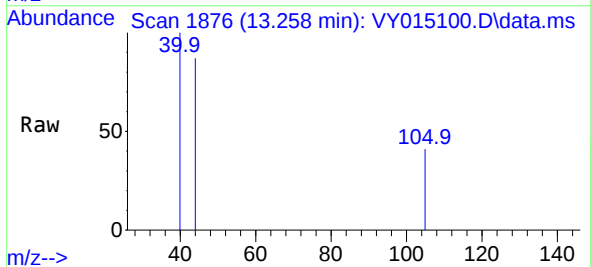
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

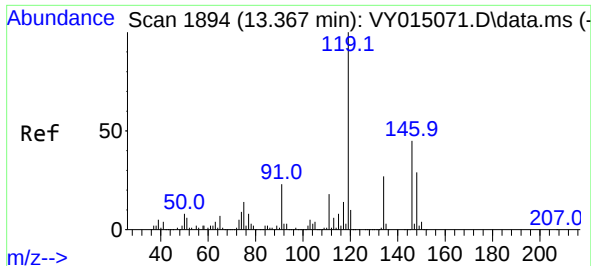
Tgt Ion:105 Resp: 128
Ion Ratio Lower Upper
105 100
120 15.6 22.2 66.6#



#85
sec-Butylbenzene
Concen: 1.093 ug/l
RT: 13.258 min Scan# 1876
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion:105 Resp: 135
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.6#

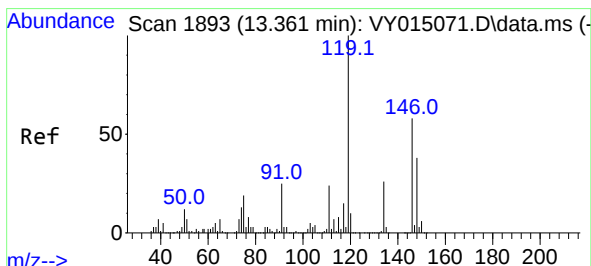
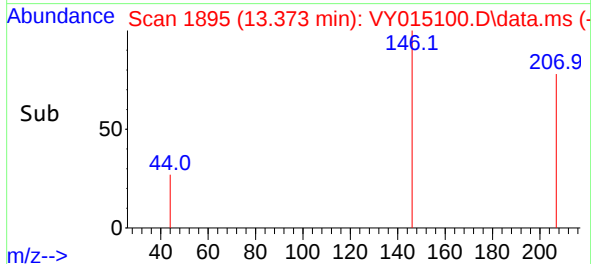
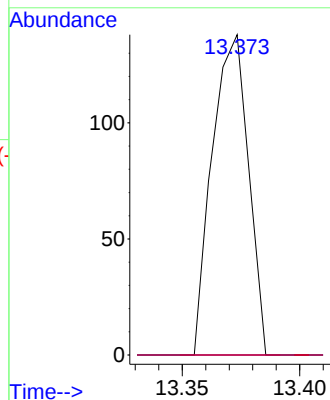
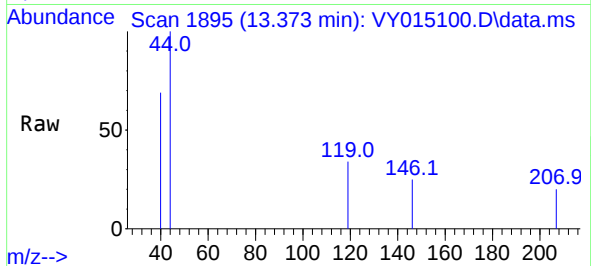




#86
p-Isopropyltoluene
Concen: 1.445 ug/l
RT: 13.373 min Scan# 1895
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

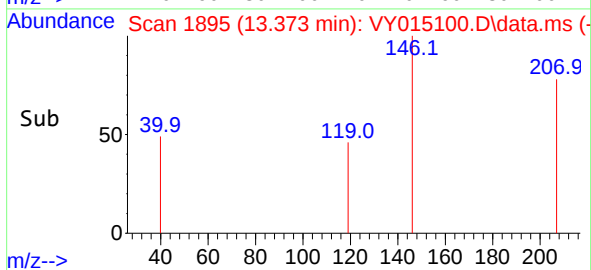
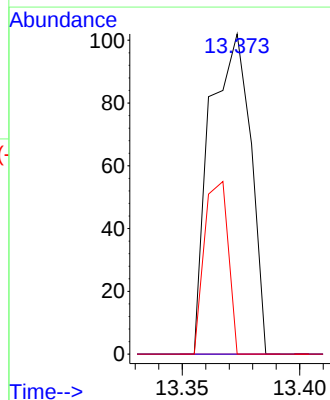
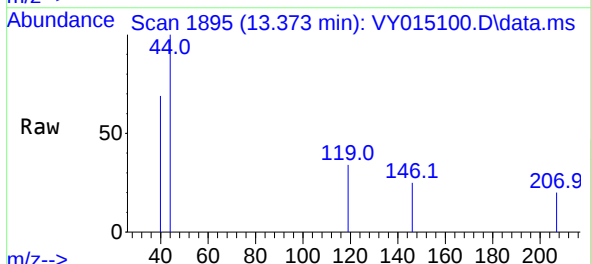
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

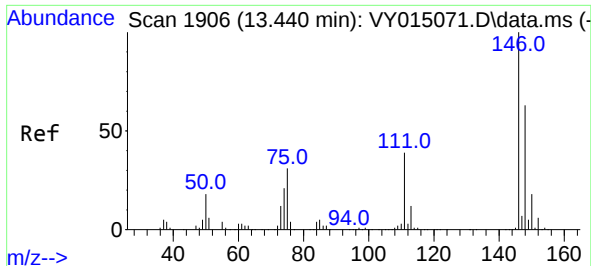
Tgt Ion:	119	Resp:	148
Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.3	39.8#
91	0.0	12.4	37.4#



#87
1,3-Dichlorobenzene
Concen: 2.300 ug/l
RT: 13.373 min Scan# 1895
Delta R.T. 0.012 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion:	146	Resp:	123
Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.4	58.2#
148	31.7	31.9	95.5#

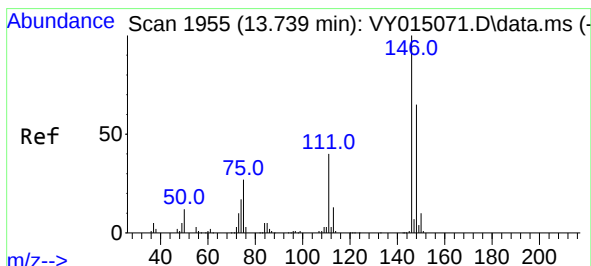
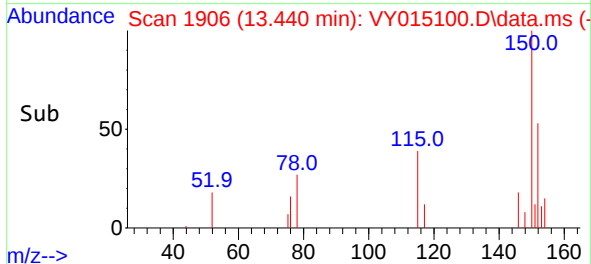
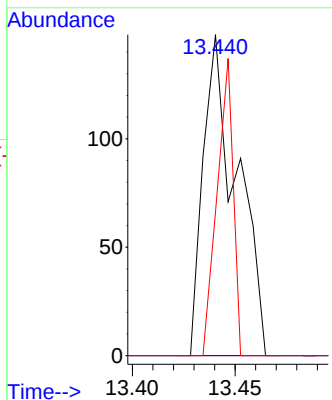
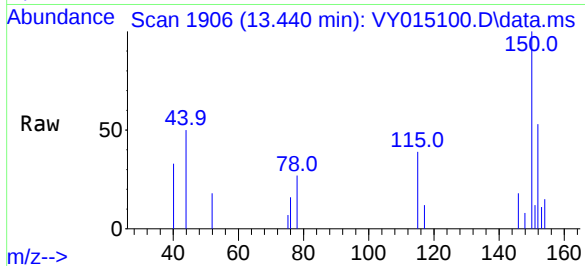




#88
1,4-Dichlorobenzene
Concen: 3.151 ug/l
RT: 13.440 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

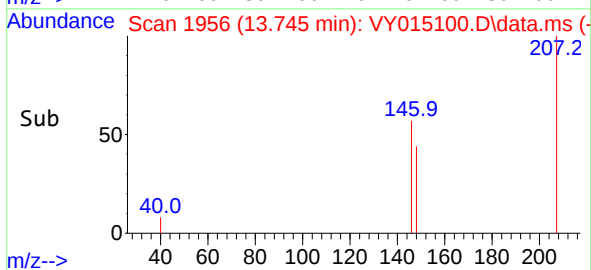
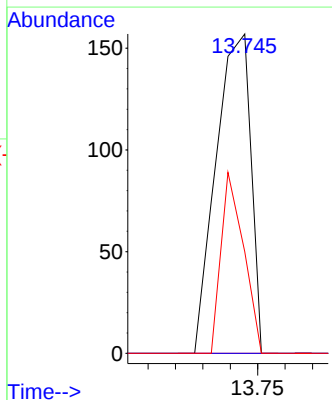
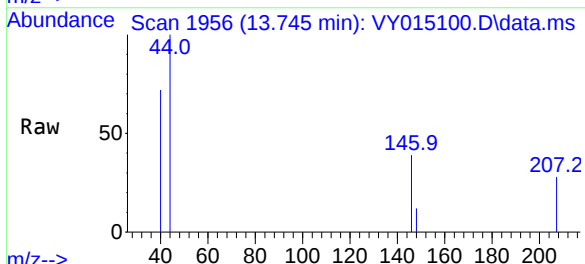
Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

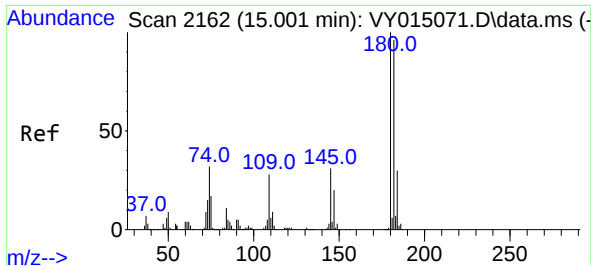
Tgt Ion:146 Resp: 169
Ion Ratio Lower Upper
146 100
111 0.0 18.9 56.7#
148 43.8 32.1 96.5



#91
1,2-Dichlorobenzene
Concen: 2.763 ug/l
RT: 13.745 min Scan# 1956
Delta R.T. 0.012 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion:146 Resp: 138
Ion Ratio Lower Upper
146 100
111 0.0 19.7 59.0#
148 37.0 32.0 96.2

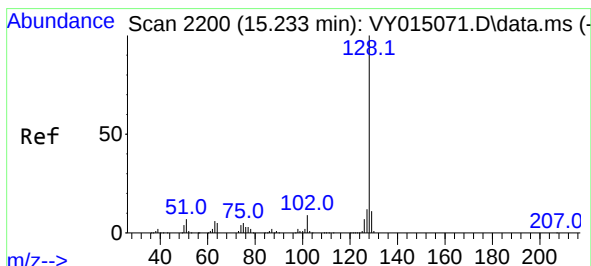
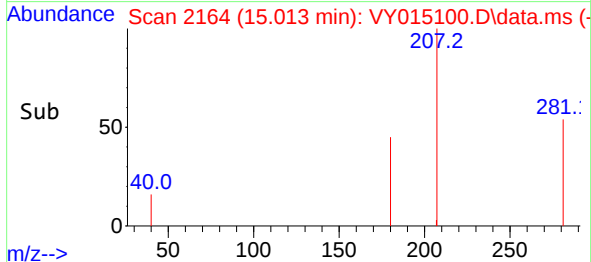
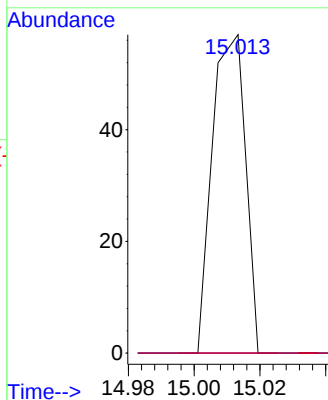
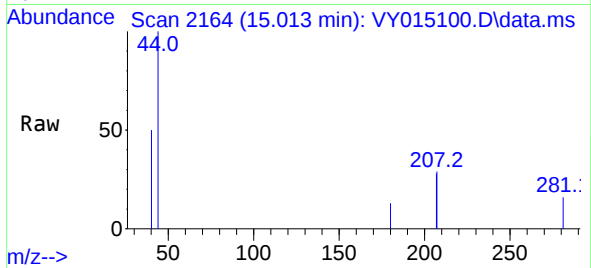




#93
1,2,4-Trichlorobenzene
Concen: 1.247 ug/l
RT: 15.013 min Scan# 2162
Delta R.T. 0.006 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Instrument :
MSVOA_Y
ClientSampleId :
B-PP16

Tgt Ion:180 Resp: 40
Ion Ratio Lower Upper
180 100
182 0.0 47.0 141.2#
145 0.0 14.5 43.5#



#95
Naphthalene
Concen: 6.447 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. 0.000 min
Lab File: VY015100.D
Acq: 15 Aug 2023 13:55

Tgt Ion:128 Resp: 515
Ion Ratio Lower Upper
128 100
127 0.0 10.8 16.2#
129 0.0 8.6 13.0#

