

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032723\
 Data File : BM039165.D
 Acq On : 27 Mar 2023 18:01
 Operator : CG/JU
 Sample : 02107-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WC01

Quant Time: Mar 28 01:51:10 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 28 01:46:09 2023
 Response via : Initial Calibration

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

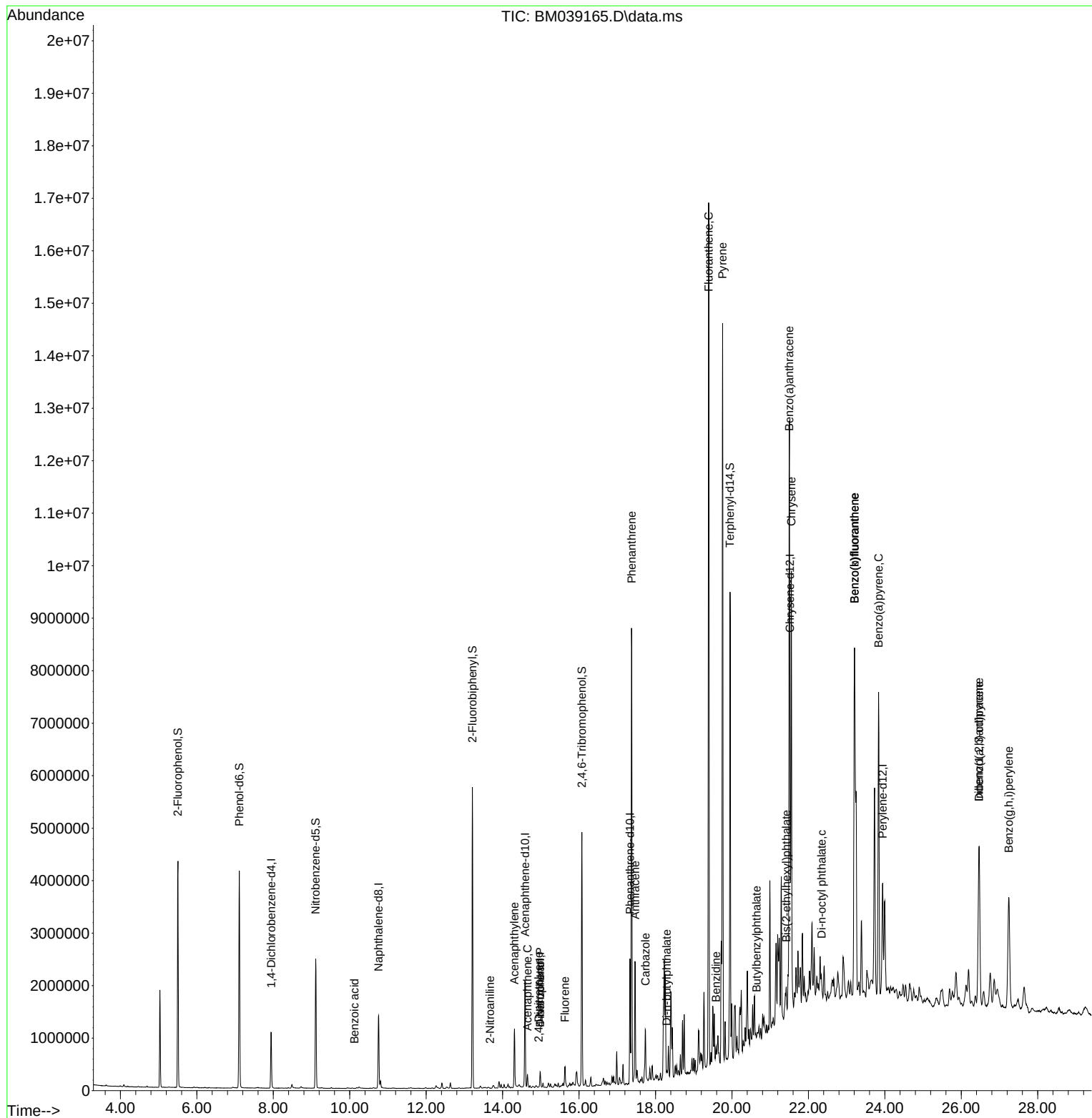
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.945	152	291748	20.000	ng	0.00
21) Naphthalene-d8	10.757	136	1154582	20.000	ng	0.00
39) Acenaphthene-d10	14.586	164	669550	20.000	ng	0.00
64) Phenanthrene-d10	17.333	188	1399666	20.000	ng	0.00
76) Chrysene-d12	21.515	240	1349766	20.000	ng	0.00
86) Perylene-d12	23.944	264	1561500	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1854417	96.570	ng	0.00
7) Phenol-d6	7.110	99	2379362	95.393	ng	0.00
23) Nitrobenzene-d5	9.110	82	1408200	59.911	ng	0.00
42) 2,4,6-Tribromophenol	16.074	330	789260	101.897	ng	0.00
45) 2-Fluorobiphenyl	13.210	172	2804561	54.529	ng	0.00
79) Terphenyl-d14	19.950	244	4204165	56.948	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	10.122	122	287	5.751	ng	# 1
48) 2-Nitroaniline	13.674	65	118	2.224	ng	# 28
49) Acenaphthylene	14.310	152	858538	12.601	ng	100
52) Acenaphthene	14.651	154	85312	2.038	ng	97
55) Dibenzofuran	14.980	168	145701	2.224	ng	# 97
56) 4-Nitrophenol	14.980	139	54311	5.308	ng	# 9
57) 2,4-Dinitrotoluene	14.945	165	1076	2.140	ng	# 78
58) Fluorene	15.633	166	175644	3.422	ng	98
71) Phenanthrene	17.374	178	5111345	62.222	ng	100
72) Anthracene	17.468	178	1446832	17.661	ng	99
73) Carbazole	17.739	167	631366	8.445	ng	100
74) Di-n-butylphthalate	18.298	149	55661	2.386	ng	# 92
75) Fluoranthene	19.392	202	9879808	113.908	ng	97
77) Benzidine	19.586	184	176	4.881	ng	# 1
78) Pyrene	19.756	202	8345403	82.319	ng	99
80) Butylbenzylphthalate	20.644	149	4706	3.418	ng	# 63
81) Benzo(a)anthracene	21.497	228	5069022	52.149	ng	97
83) Chrysene	21.556	228	4567534	48.314	ng	97
84) Bis(2-ethylhexyl)phtha...	21.421	149	139048	4.600	ng	99
85) Di-n-octyl phthalate	22.350	149	7149	3.860	ng	# 35
87) Indeno(1,2,3-cd)pyrene	26.468	276	3075795	25.886	ng	96
88) Benzo(b)fluoranthene	23.209	252	6311852	63.271	ng	97
89) Benzo(k)fluoranthene	23.209	252	6311852	60.797	ng	97
90) Benzo(a)pyrene	23.838	252	4237113	44.132	ng	98
91) Dibenzo(a,h)anthracene	26.468	278	853002	8.477	ng	# 79
92) Benzo(g,h,i)perylene	27.244	276	2796197	28.403	ng	99

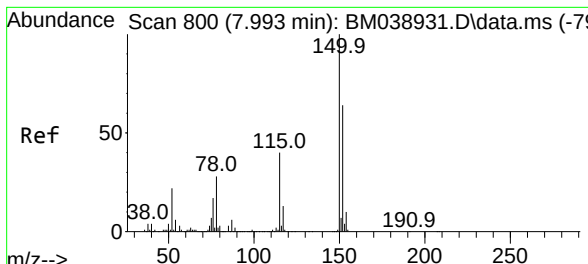
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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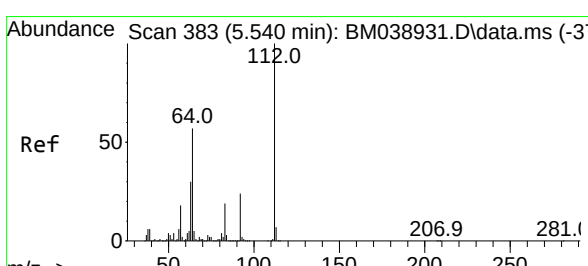
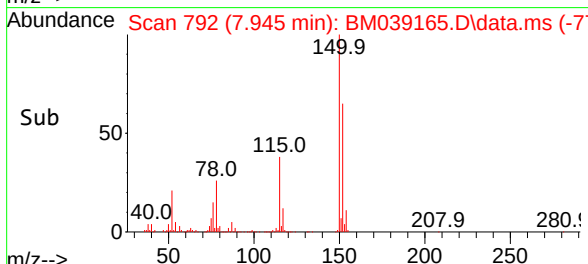
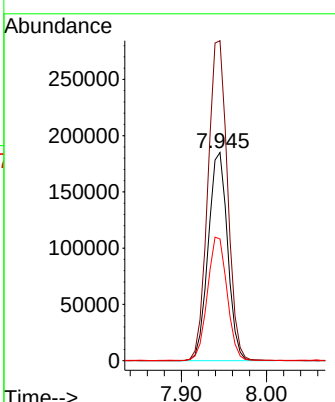
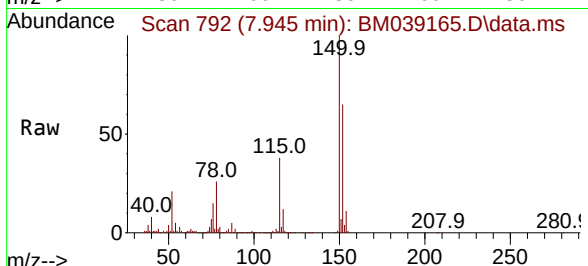


#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.945 min Scan# 79
 Delta R.T. 0.000 min
 Lab File: BM039165.D
 Acq: 27 Mar 2023 18:01

Instrument :
 BNA_M
 ClientSampleId :
 WC01

Tgt Ion:152 Resp: 291748

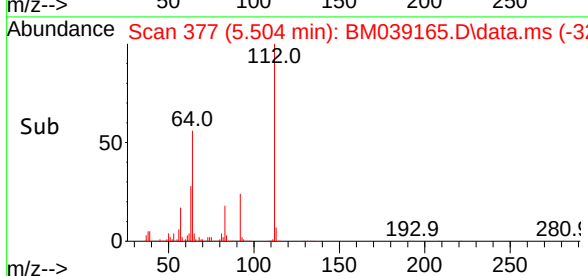
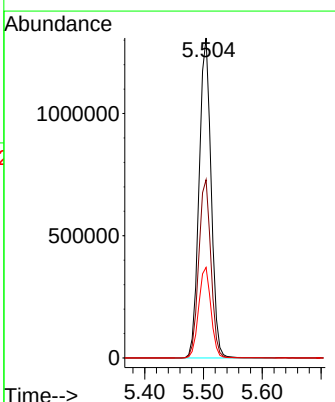
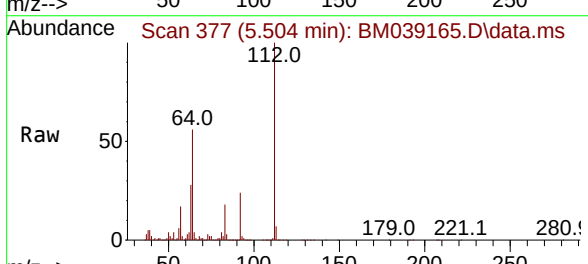
Ion	Ratio	Lower	Upper
152	100		
150	153.7	125.1	187.7
115	58.4	49.6	74.4

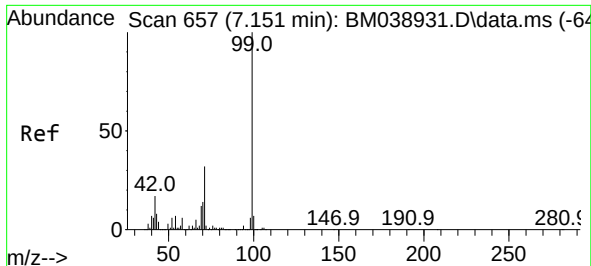


#5
 2-Fluorophenol
 Concen: 96.570 ng
 RT: 5.504 min Scan# 377
 Delta R.T. 0.006 min
 Lab File: BM039165.D
 Acq: 27 Mar 2023 18:01

Tgt Ion:112 Resp: 1854417

Ion	Ratio	Lower	Upper
112	100		
64	55.7	45.9	68.9
63	28.3	23.8	35.8



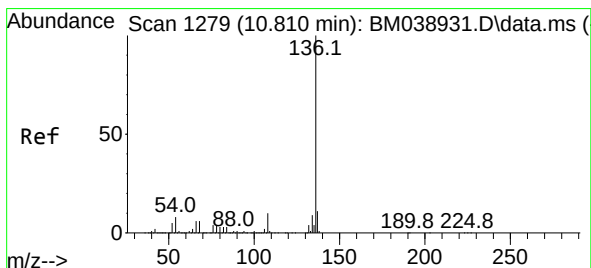
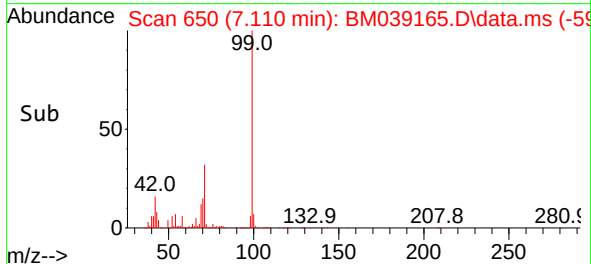
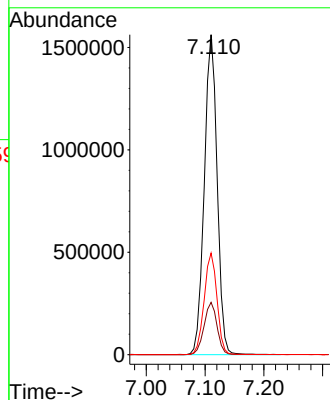
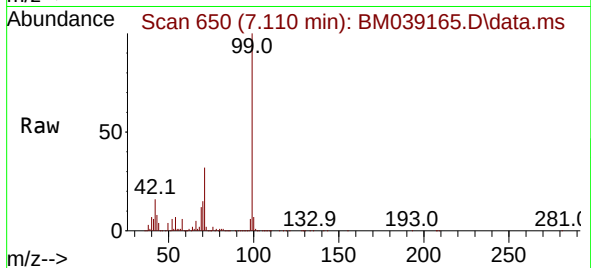


#7
Phenol-d6
Concen: 95.393 ng
RT: 7.110 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

Instrument :
BNA_M
ClientSampleId :
WC01

Tgt Ion: 99 Resp: 2379362

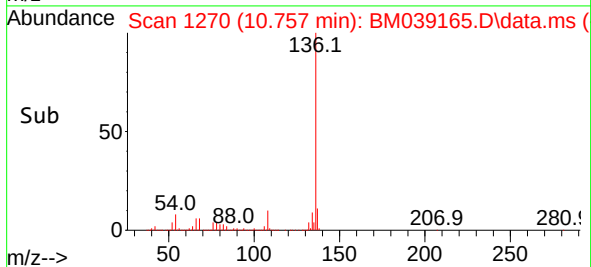
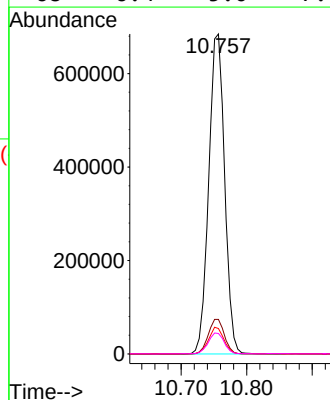
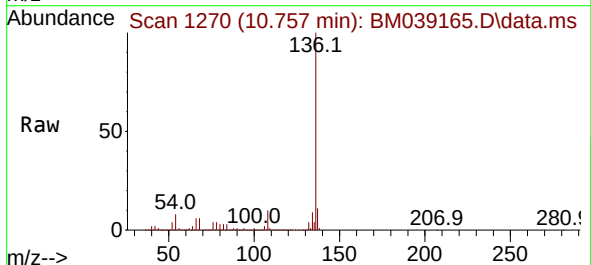
Ion	Ratio	Lower	Upper
99	100		
42	16.3	13.5	20.3
71	31.8	25.6	38.4

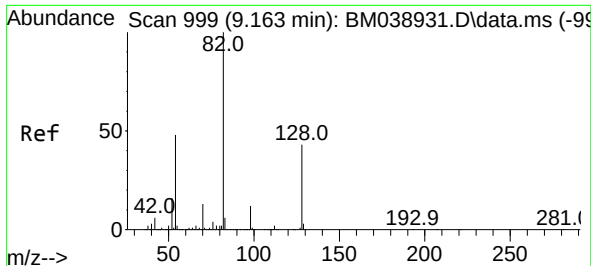


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.757 min Scan# 1270
Delta R.T. -0.000 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

Tgt Ion: 136 Resp: 1154582

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.7	13.1
54	7.9	6.3	9.5
68	6.4	5.0	7.6

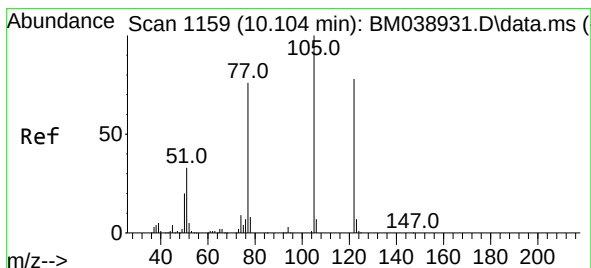
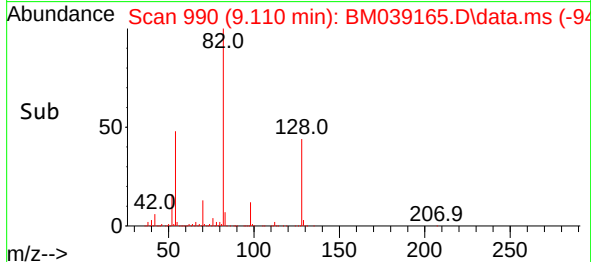
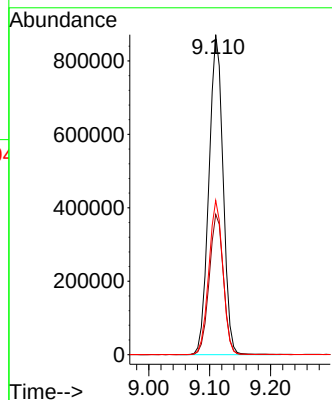
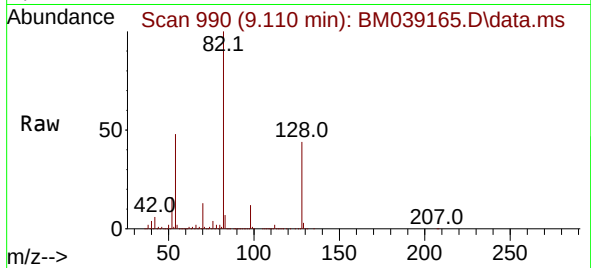




#23
Nitrobenzene-d5
Concen: 59.911 ng
RT: 9.110 min Scan# 91
Delta R.T. -0.006 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

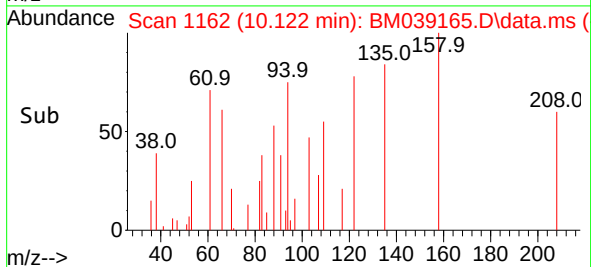
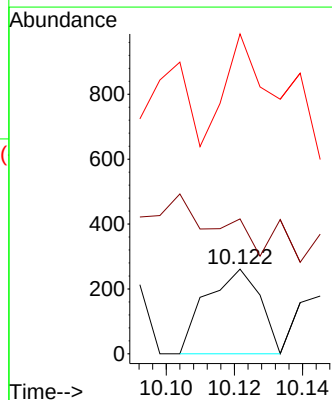
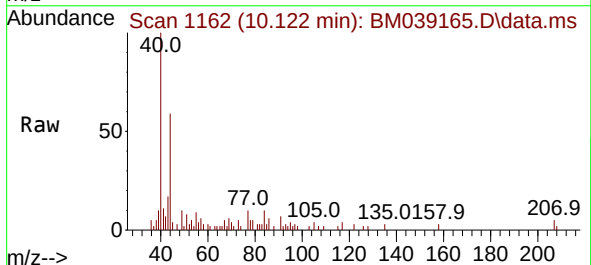
Instrument :
BNA_M
ClientSampleId :
WC01

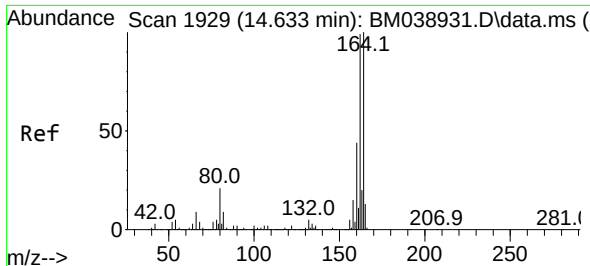
Tgt Ion: 82 Resp: 1408200
Ion Ratio Lower Upper
82 100
128 43.8 34.4 51.6
54 48.2 38.8 58.2



#32
Benzoic acid
Concen: 5.751 ng
RT: 10.122 min Scan# 1162
Delta R.T. 0.047 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

Tgt Ion:122 Resp: 287
Ion Ratio Lower Upper
122 100
105 159.4 104.2 144.2#
77 377.8 75.1 115.1#

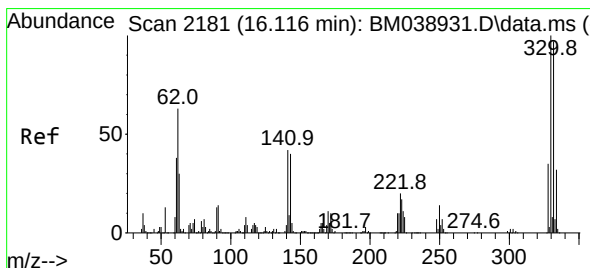
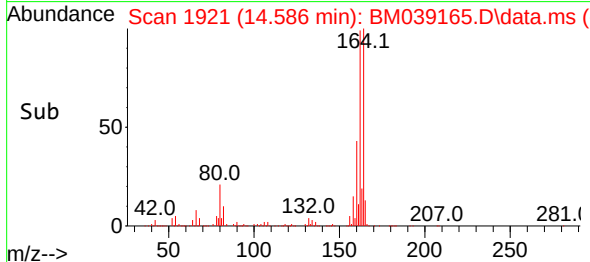
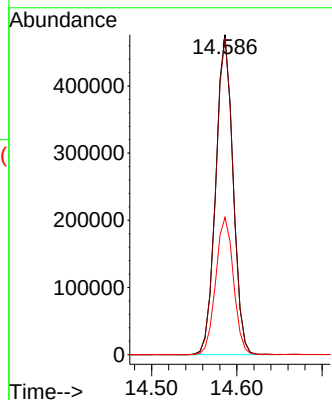
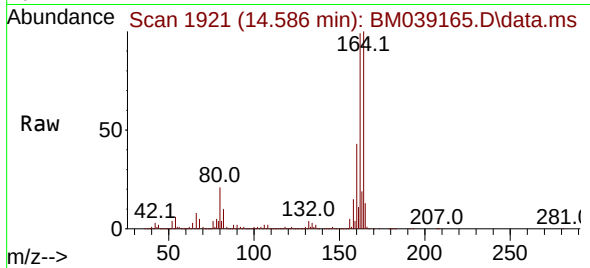




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.586 min Scan# 1929
Delta R.T. -0.006 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

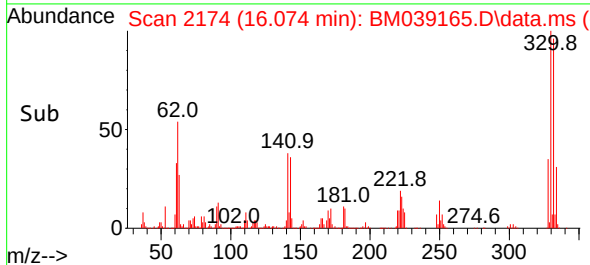
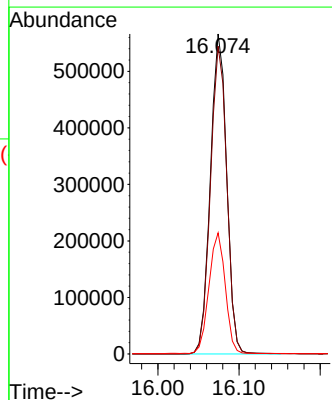
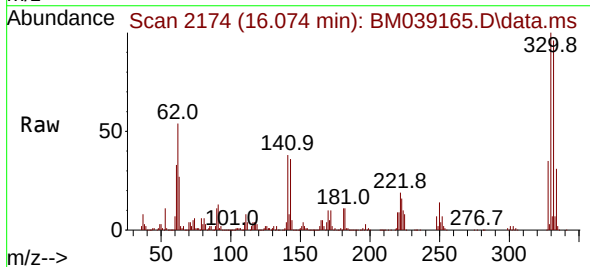
Instrument :
BNA_M
ClientSampleId :
WC01

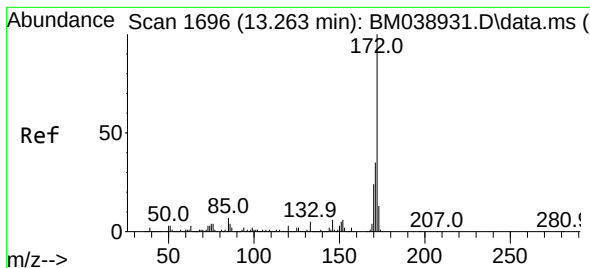
Tgt Ion:164 Resp: 669550
Ion Ratio Lower Upper
164 100
162 98.9 79.2 118.8
160 42.9 35.5 53.3



#42
2,4,6-Tribromophenol
Concen: 101.897 ng
RT: 16.074 min Scan# 2174
Delta R.T. -0.006 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

Tgt Ion:330 Resp: 789260
Ion Ratio Lower Upper
330 100
332 96.6 77.4 116.0
141 37.5 32.2 48.4

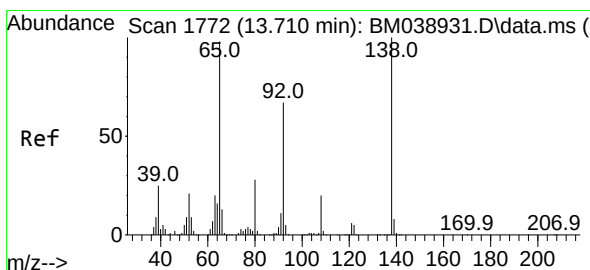
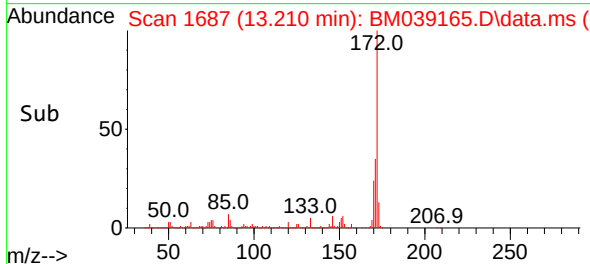
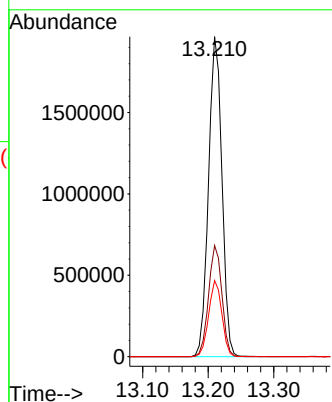
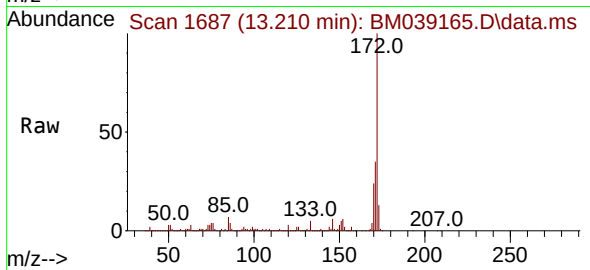




#45
2-Fluorobiphenyl
Concen: 54.529 ng
RT: 13.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

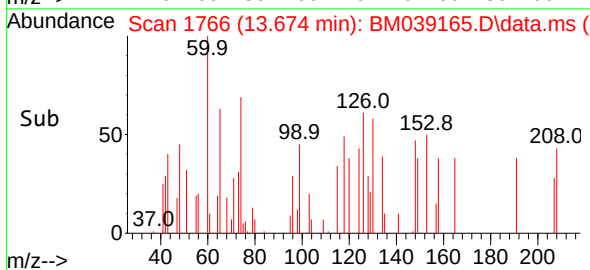
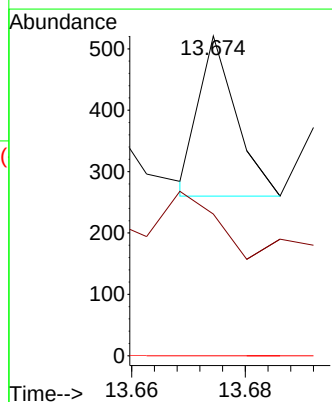
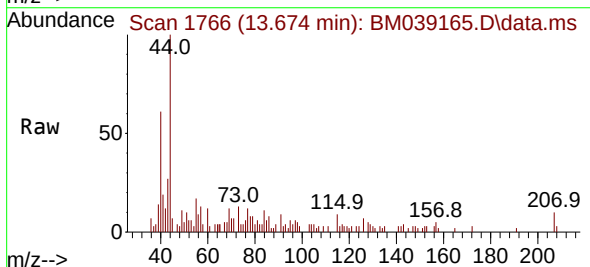
Instrument :
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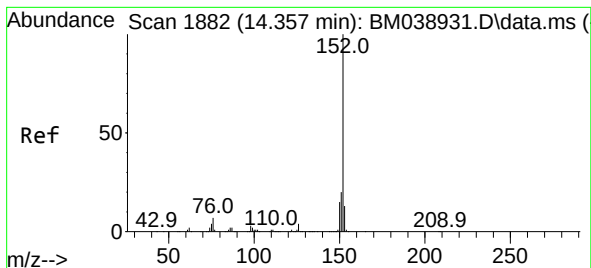
Tgt Ion:172 Resp: 2804561
Ion Ratio Lower Upper
172 100
171 34.8 28.2 42.2
170 23.8 19.1 28.7



#48
2-Nitroaniline
Concen: 2.224 ng
RT: 13.674 min Scan# 1766
Delta R.T. -0.000 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

Tgt Ion: 65 Resp: 118
Ion Ratio Lower Upper
65 100
92 44.3 54.9 82.3#
138 0.0 81.6 122.4#





#49

Acenaphthylene

Concen: 12.601 ng

RT: 14.310 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

Instrument :

BNA_M

ClientSampleId :

WC01

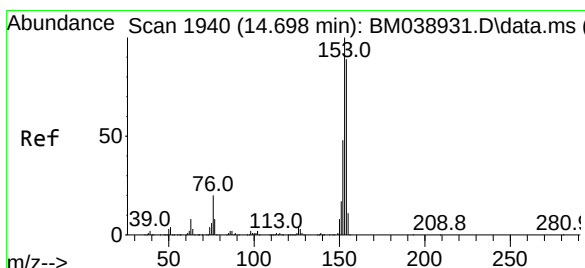
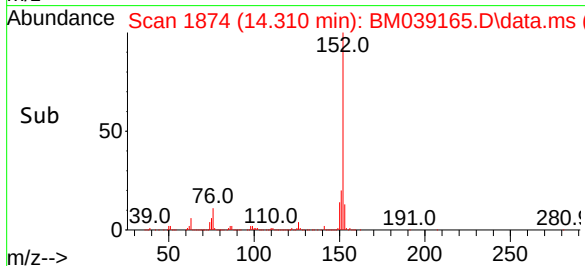
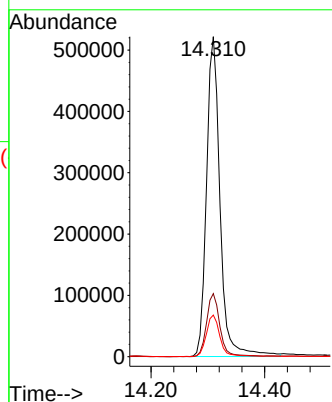
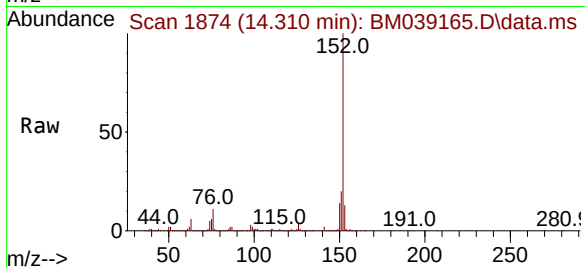
Tgt Ion:152 Resp: 858538

Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.8

153 13.0 10.4 15.6



#52

Acenaphthene

Concen: 2.038 ng

RT: 14.651 min Scan# 1932

Delta R.T. -0.006 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

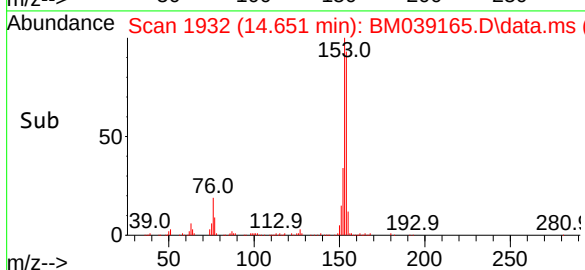
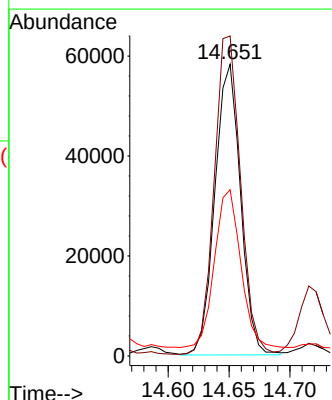
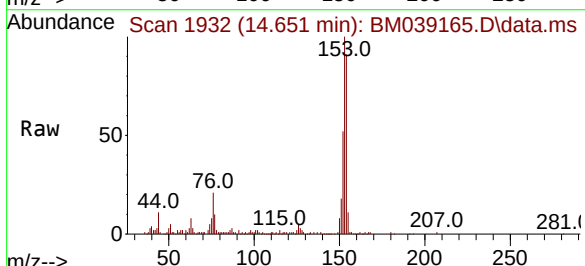
Tgt Ion:154 Resp: 85312

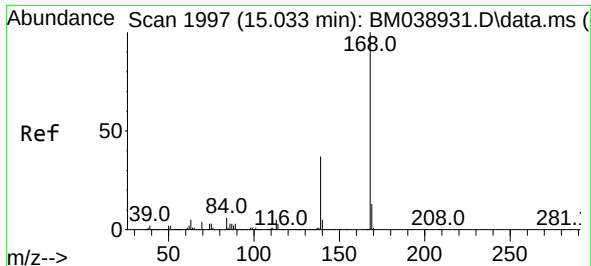
Ion Ratio Lower Upper

154 100

153 109.7 90.2 135.2

152 57.0 43.4 65.2

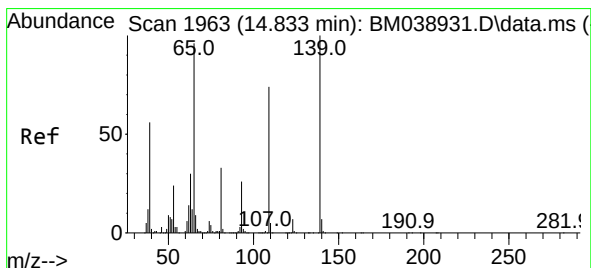
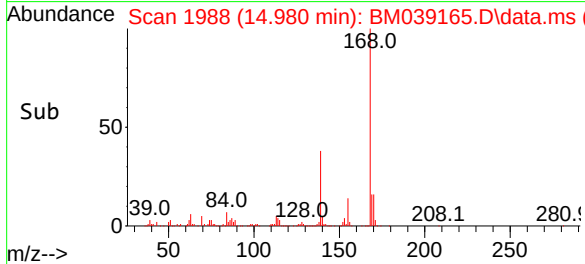
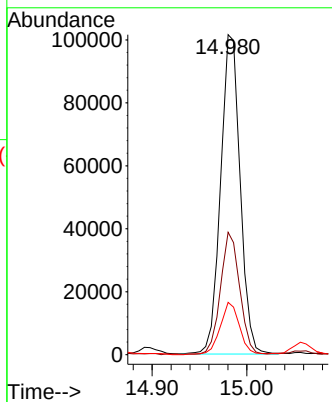
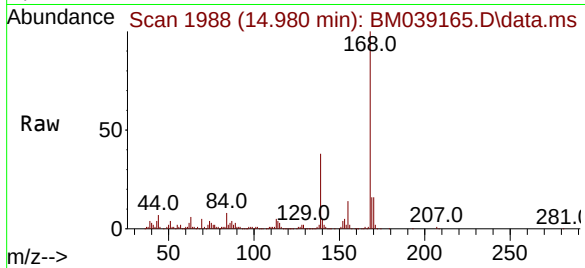




#55
Dibenzenofuran
Concen: 2.224 ng
RT: 14.980 min Scan# 1997
Delta R.T. -0.006 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

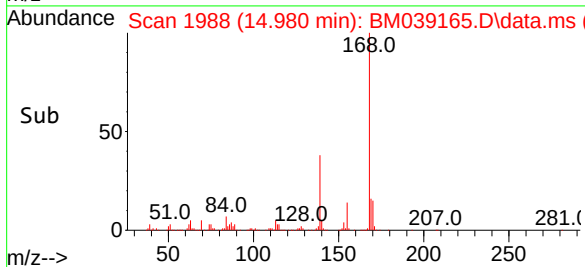
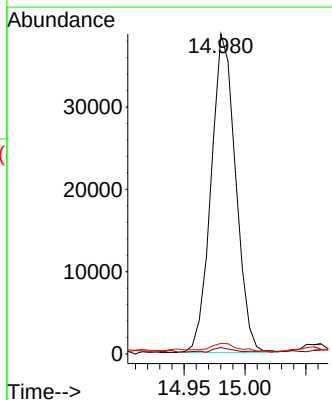
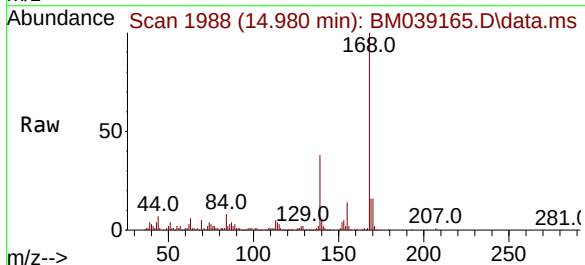
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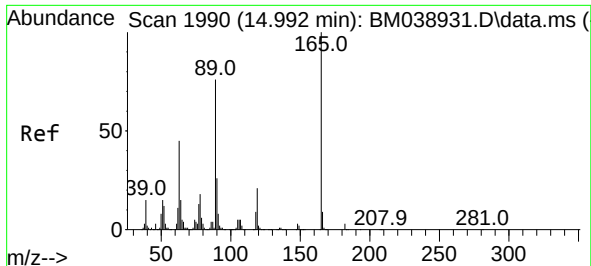
Tgt Ion:168 Resp: 145701
Ion Ratio Lower Upper
168 100
139 38.2 29.9 44.9
169 16.3 10.7 16.1#



#56
4-Nitrophenol
Concen: 5.308 ng
RT: 14.980 min Scan# 1988
Delta R.T. 0.170 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

Tgt Ion:139 Resp: 54311
Ion Ratio Lower Upper
139 100
109 2.0 53.5 93.5#
65 3.3 76.4 116.4#





#57

2,4-Dinitrotoluene

Concen: 2.140 ng

RT: 14.945 min Scan# 1990

Delta R.T. -0.012 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

Instrument :

BNA_M

ClientSampleId :

WC01

Tgt Ion:165 Resp: 1076

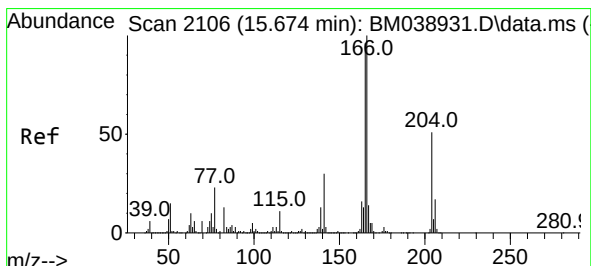
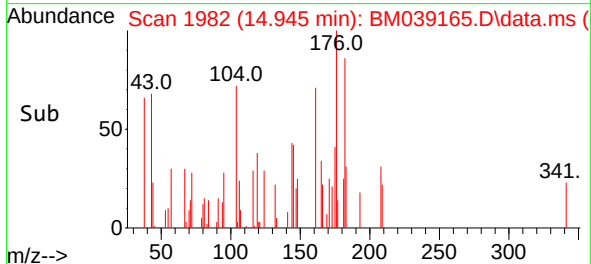
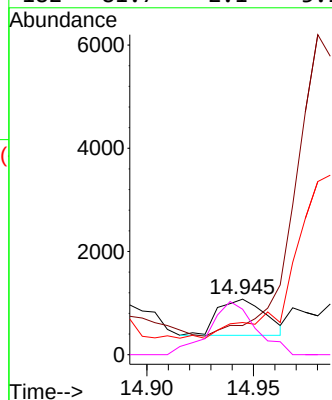
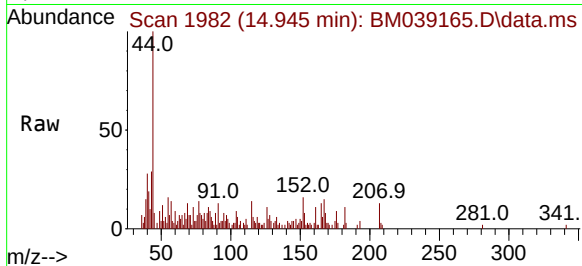
Ion Ratio Lower Upper

165 100

63 52.5 35.9 53.9

89 58.0 61.0 91.6#

182 81.7 2.1 3.1#



#58

Fluorene

Concen: 3.422 ng

RT: 15.633 min Scan# 2099

Delta R.T. -0.006 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

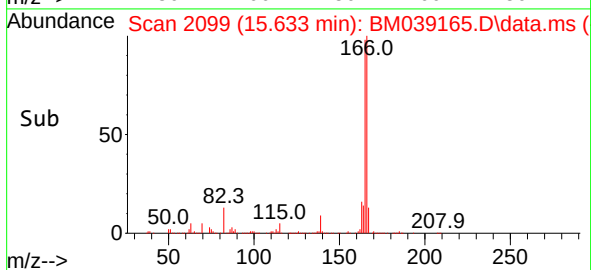
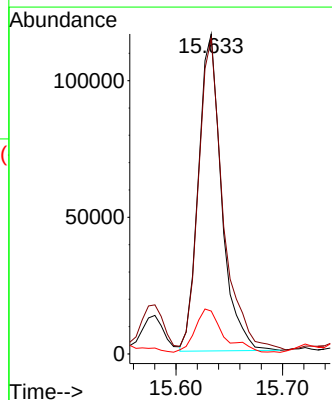
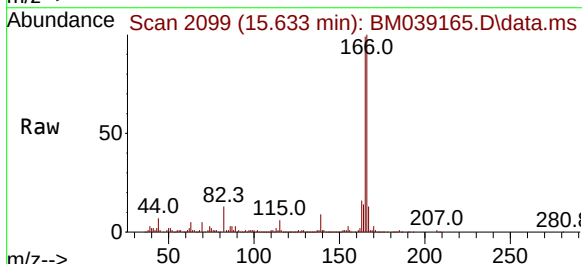
Tgt Ion:166 Resp: 175644

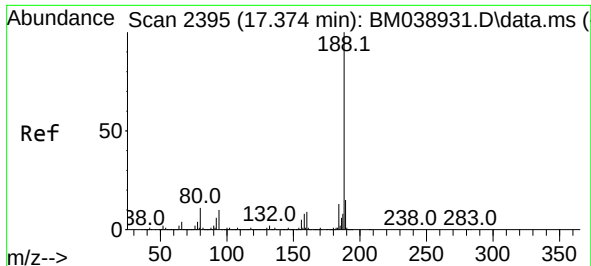
Ion Ratio Lower Upper

166 100

165 98.6 77.1 115.7

167 13.4 10.9 16.3

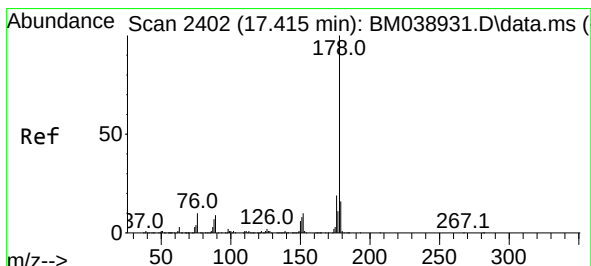
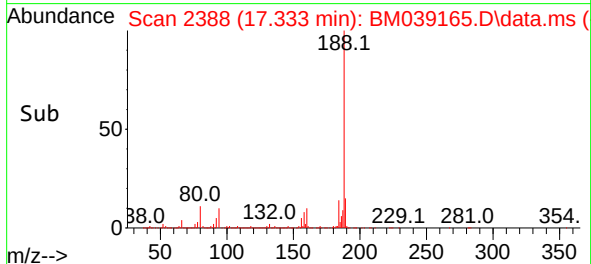
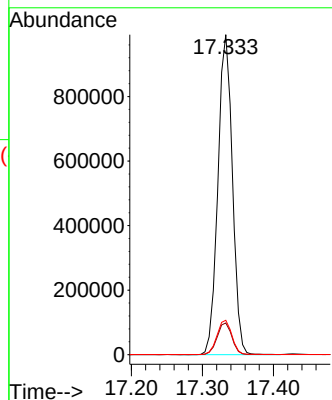
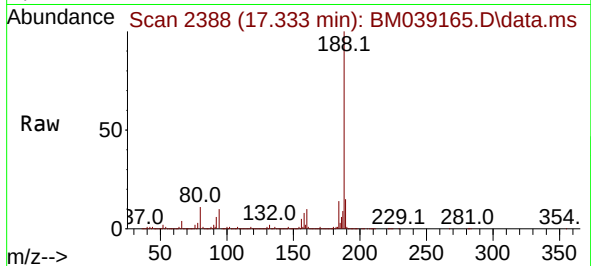




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.333 min Scan# 21
Delta R.T. -0.000 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

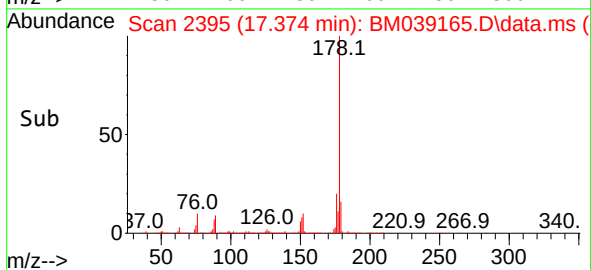
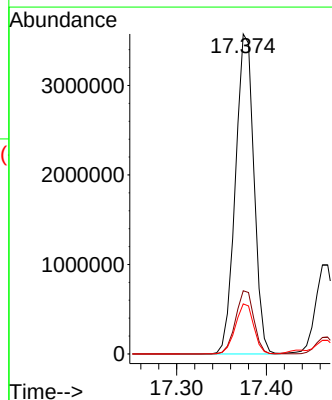
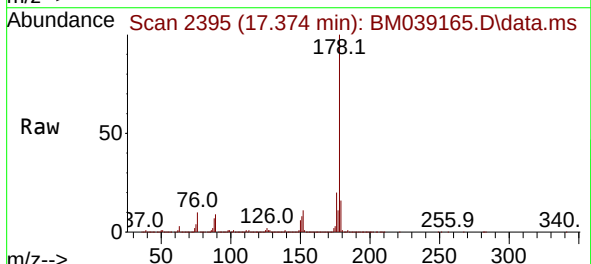
Instrument :
BNA_M
ClientSampleId :
WC01

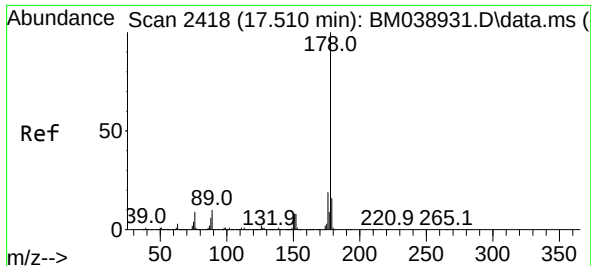
Tgt Ion:188 Resp: 1399666
Ion Ratio Lower Upper
188 100
94 9.9 7.9 11.9
80 10.8 8.5 12.7



#71
Phenanthrene
Concen: 62.222 ng
RT: 17.374 min Scan# 2395
Delta R.T. -0.006 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

Tgt Ion:178 Resp: 5111345
Ion Ratio Lower Upper
178 100
176 19.7 15.6 23.4
179 15.7 12.5 18.7

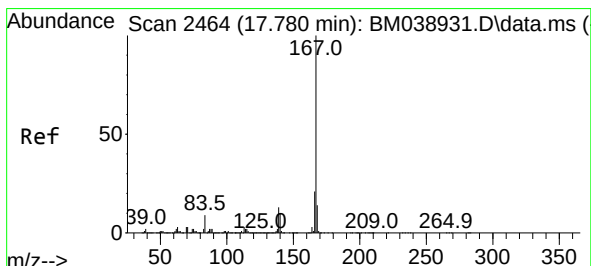
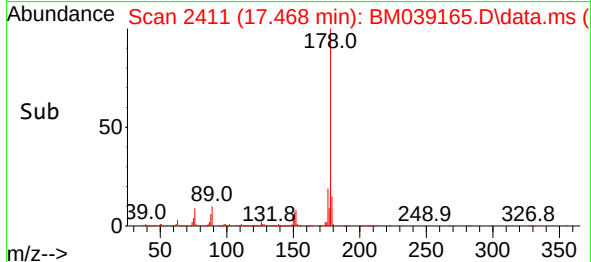
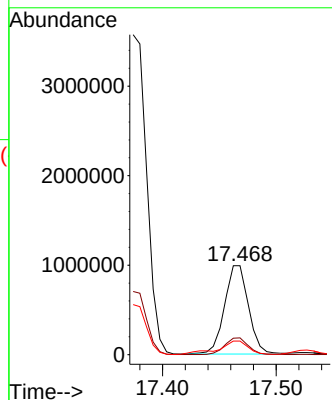
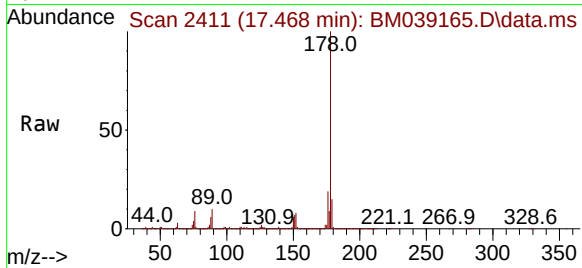




#72
 Anthracene
 Concen: 17.661 ng
 RT: 17.468 min Scan# 2418
 Delta R.T. -0.000 min
 Lab File: BM039165.D
 Acq: 27 Mar 2023 18:01

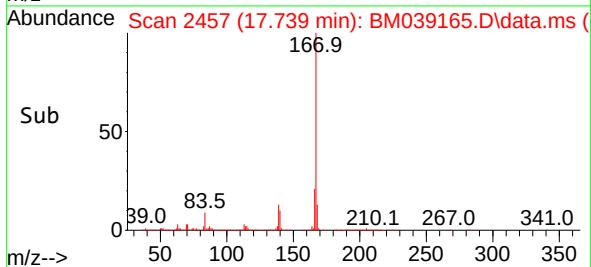
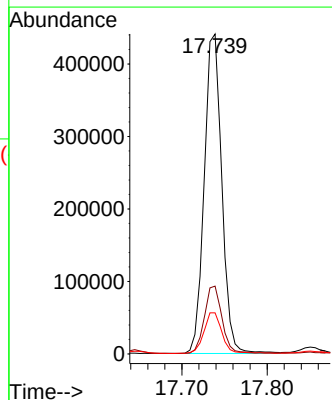
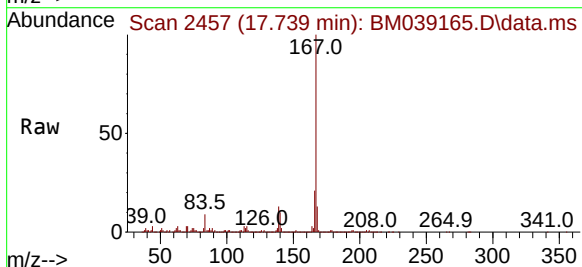
Instrument :
 BNA_M
 ClientSampleId :
 WC01

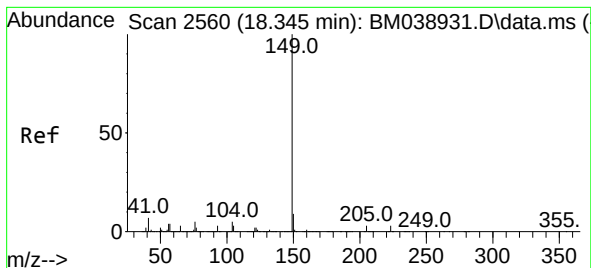
Tgt Ion:178 Resp: 1446832
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.3 22.9
 179 15.3 12.5 18.7



#73
 Carbazole
 Concen: 8.445 ng
 RT: 17.739 min Scan# 2457
 Delta R.T. -0.000 min
 Lab File: BM039165.D
 Acq: 27 Mar 2023 18:01

Tgt Ion:167 Resp: 631366
 Ion Ratio Lower Upper
 167 100
 166 21.2 17.0 25.4
 139 12.8 10.3 15.5





#74

Di-n-butylphthalate

Concen: 2.386 ng

RT: 18.298 min Scan# 2

Delta R.T. -0.006 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

Instrument :

BNA_M

ClientSampleId :

WC01

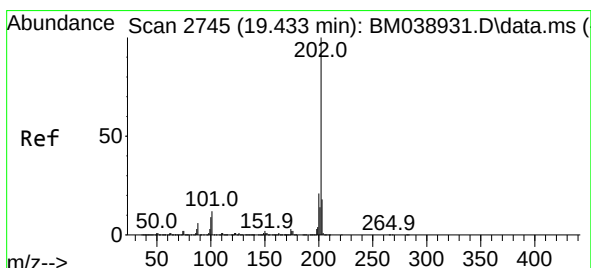
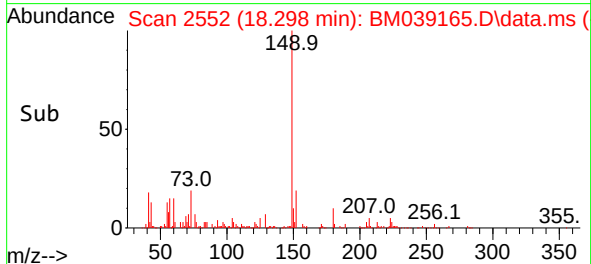
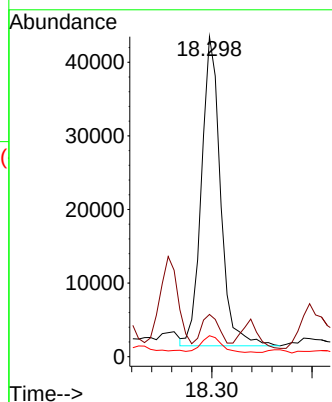
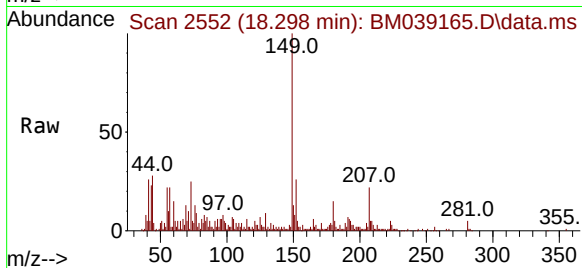
Tgt Ion:149 Resp: 55661

Ion Ratio Lower Upper

149 100

150 13.2 7.4 11.2#

104 6.6 4.3 6.5#



#75

Fluoranthene

Concen: 113.908 ng

RT: 19.392 min Scan# 2738

Delta R.T. -0.000 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

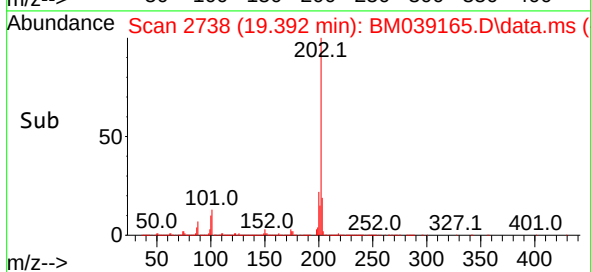
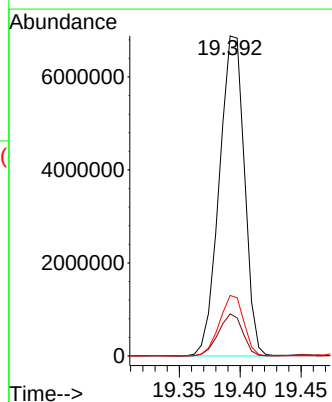
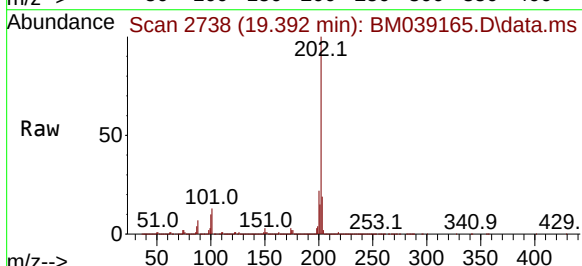
Tgt Ion:202 Resp: 9879808

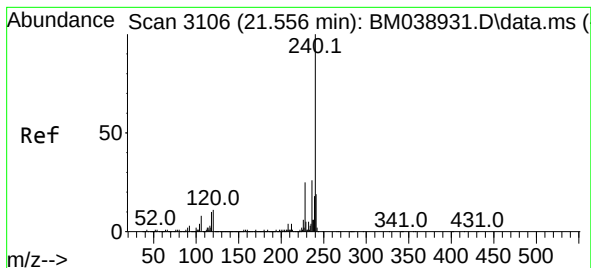
Ion Ratio Lower Upper

202 100

101 13.2 0.0 31.7

203 18.9 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.515 min Scan# 30

Delta R.T. -0.000 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

Instrument :

BNA_M

ClientSampleId :

WC01

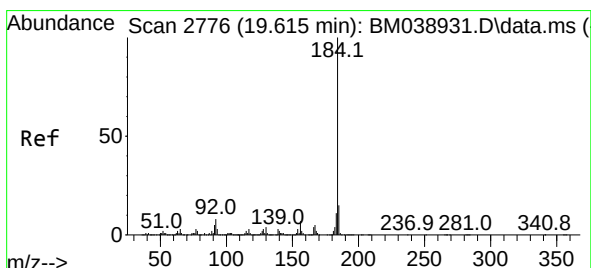
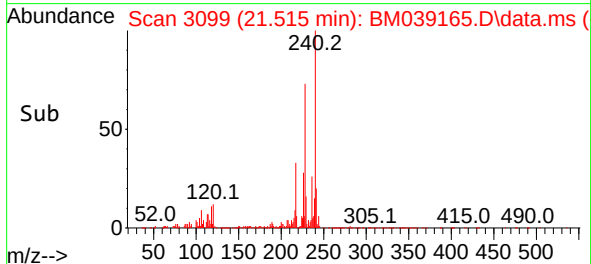
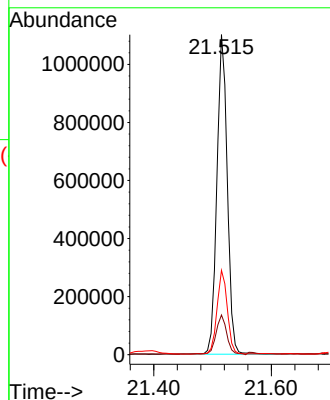
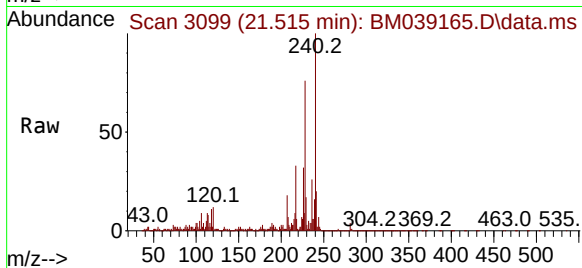
Tgt Ion:240 Resp: 1349766

Ion Ratio Lower Upper

240 100

120 12.4 9.2 13.8

236 26.3 20.8 31.2



#77

Benzidine

Concen: 4.881 ng

RT: 19.586 min Scan# 2771

Delta R.T. 0.006 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

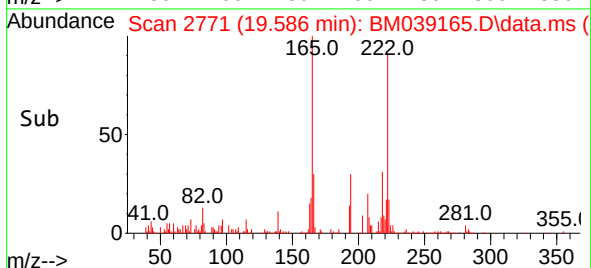
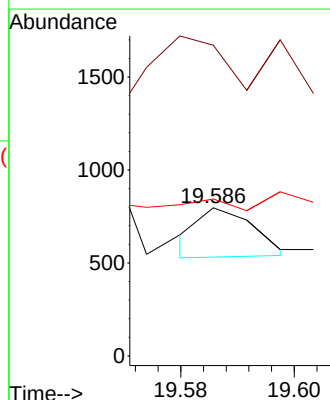
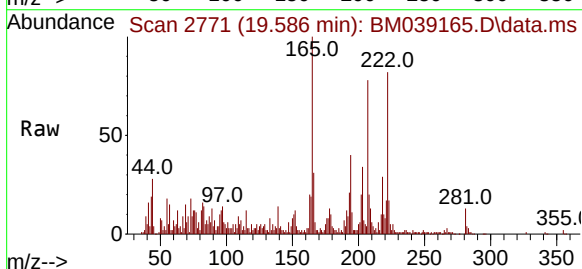
Tgt Ion:184 Resp: 176

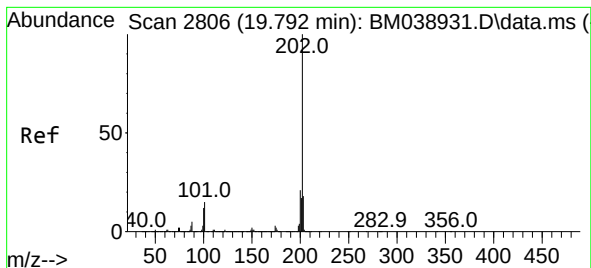
Ion Ratio Lower Upper

184 100

185 209.7 12.2 18.4#

183 105.9 8.8 13.2#





#78

Pyrene

Concen: 82.319 ng

RT: 19.756 min Scan# 2800

Delta R.T. -0.000 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

Instrument :

BNA_M

ClientSampleId :

WC01

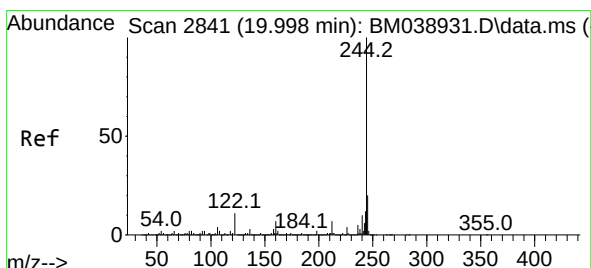
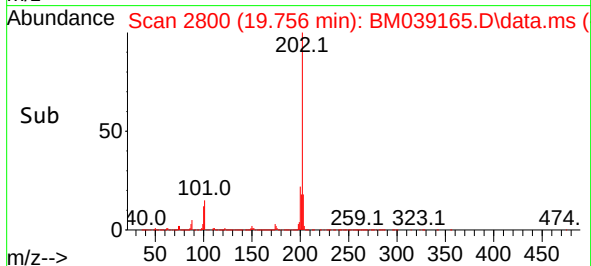
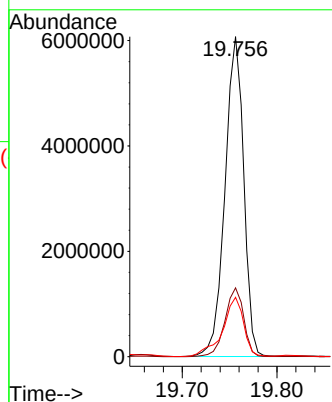
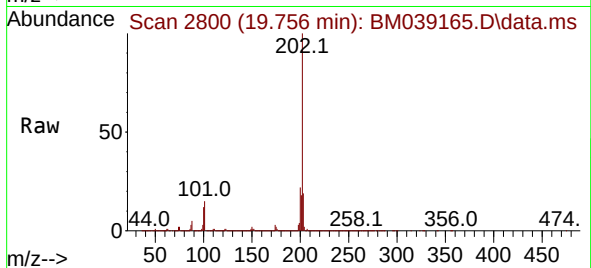
Tgt Ion:202 Resp: 8345403

Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 18.5 14.1 21.1



#79

Terphenyl-d14

Concen: 56.948 ng

RT: 19.950 min Scan# 2833

Delta R.T. -0.006 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

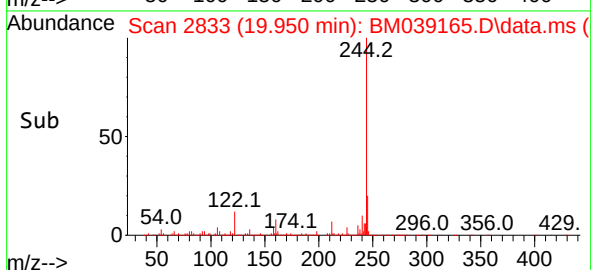
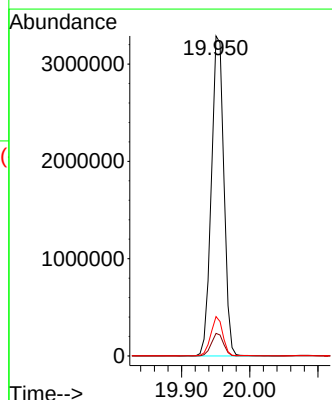
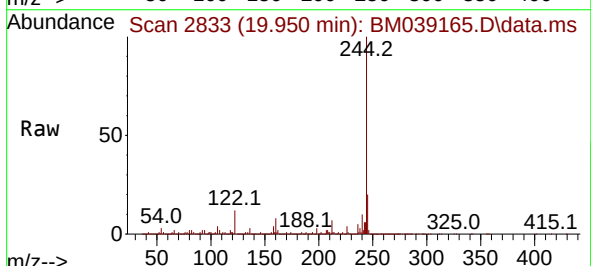
Tgt Ion:244 Resp: 4204165

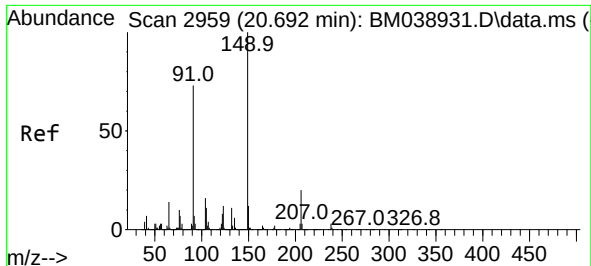
Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

122 12.3 9.0 13.4

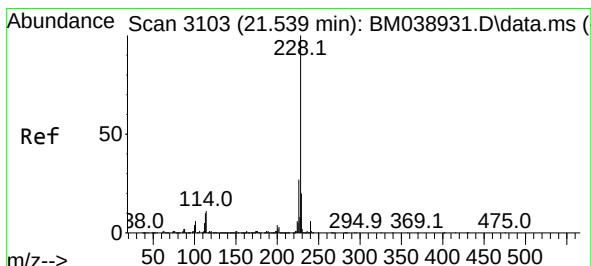
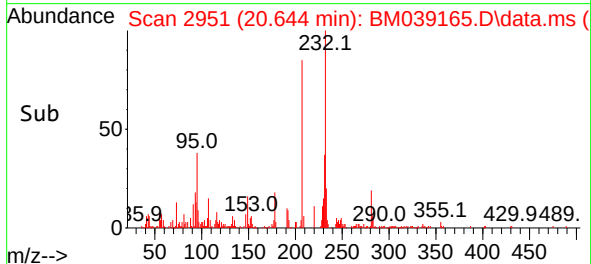
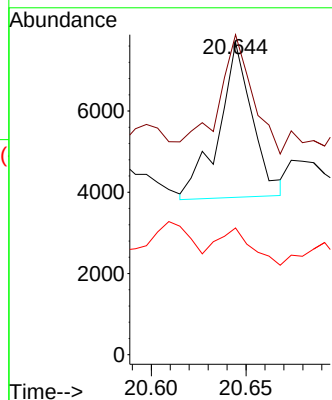
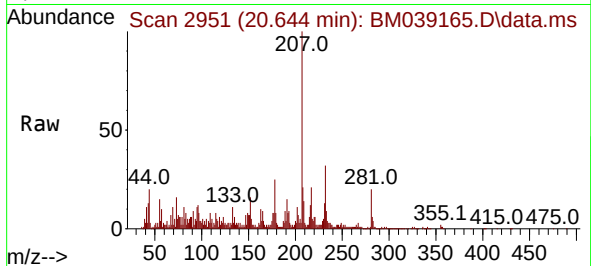




#80
Butylbenzylphthalate
Concen: 3.418 ng
RT: 20.644 min Scan# 2951
Delta R.T. -0.000 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

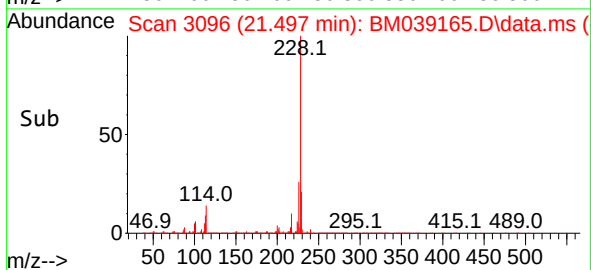
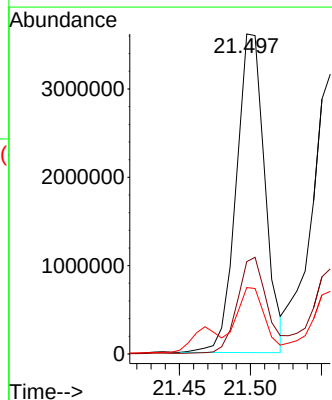
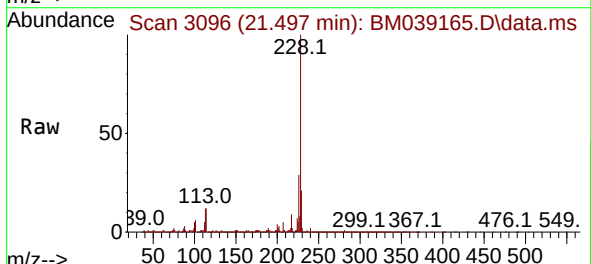
Instrument :
BNA_M
ClientSampleId :
WC01

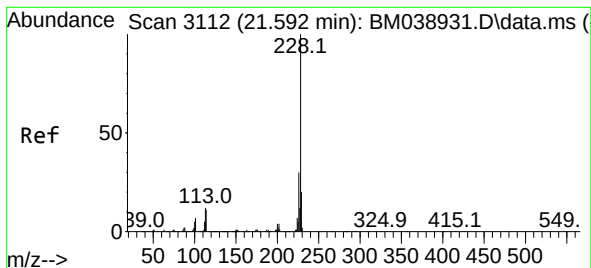
Tgt Ion:149 Resp: 4706
Ion Ratio Lower Upper
149 100
91 102.5 58.4 87.6#
206 40.6 16.1 24.1#



#81
Benzo(a)anthracene
Concen: 52.149 ng
RT: 21.497 min Scan# 3096
Delta R.T. -0.000 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

Tgt Ion:228 Resp: 5069022
Ion Ratio Lower Upper
228 100
226 28.9 21.4 32.2
229 20.8 15.7 23.5





#83

Chrysene

Concen: 48.314 ng

RT: 21.556 min Scan# 3112

Delta R.T. 0.006 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

Instrument :

BNA_M

ClientSampleId :

WC01

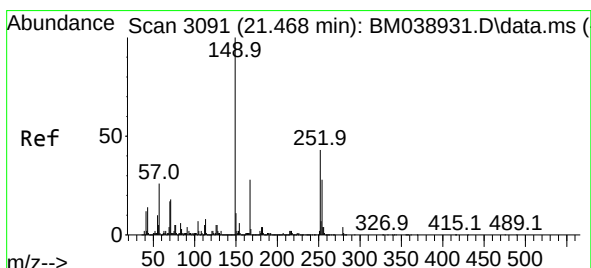
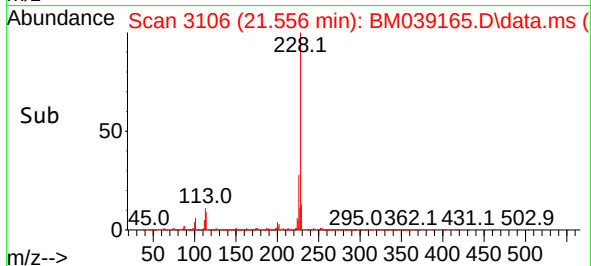
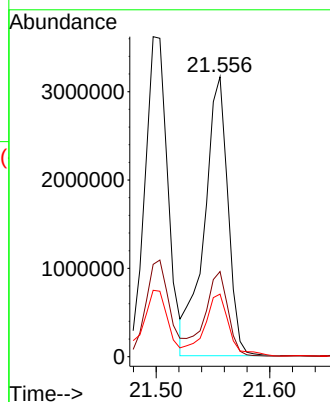
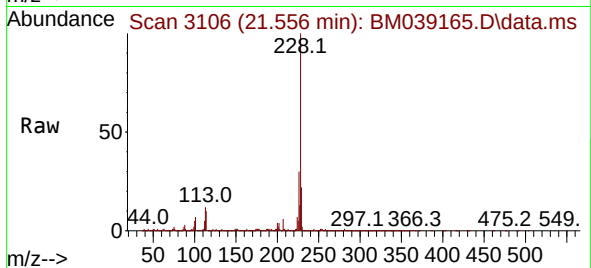
Tgt Ion:228 Resp: 4567534

Ion Ratio Lower Upper

228 100

226 30.4 24.0 36.0

229 22.4 16.0 24.0



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.600 ng

RT: 21.421 min Scan# 3083

Delta R.T. -0.000 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

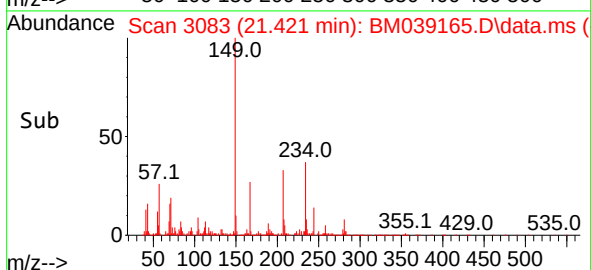
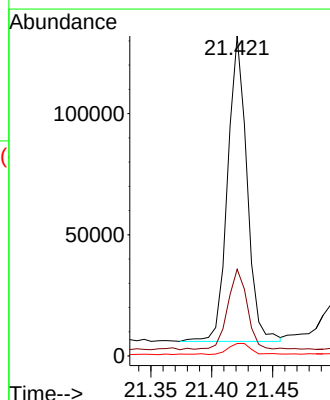
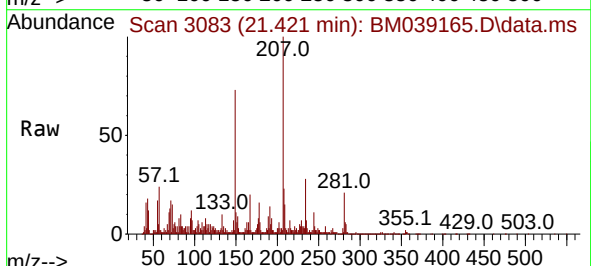
Tgt Ion:149 Resp: 139048

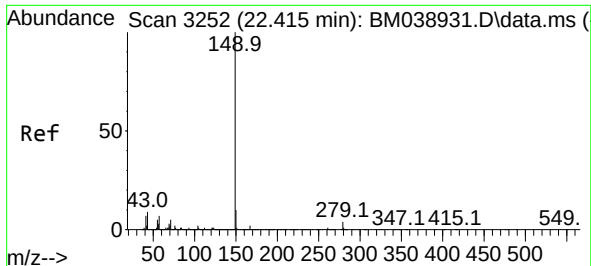
Ion Ratio Lower Upper

149 100

167 27.1 22.3 33.5

279 3.9 3.2 4.8

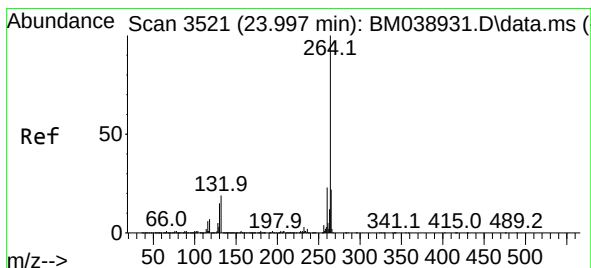
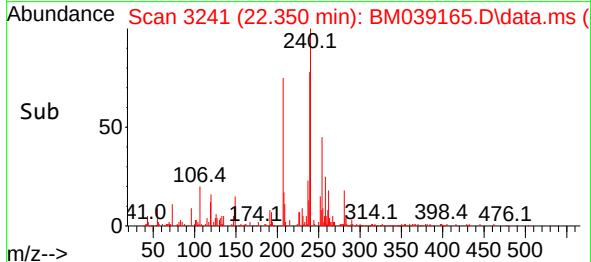
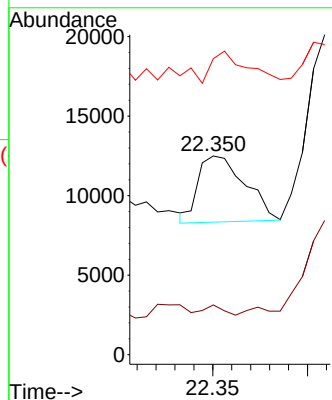
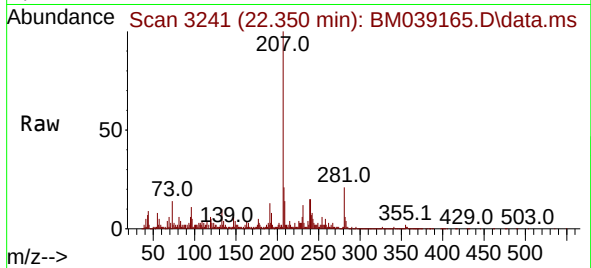




#85
Di-n-octyl phthalate
Concen: 3.860 ng
RT: 22.350 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

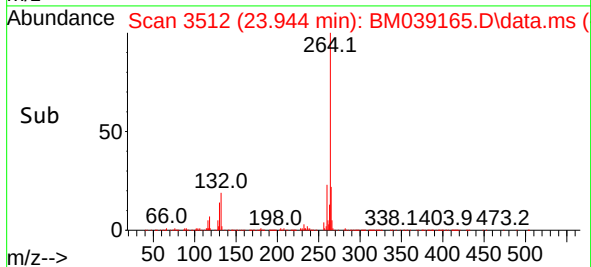
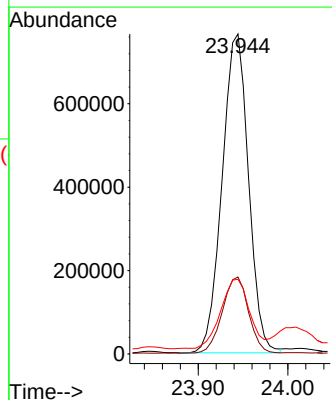
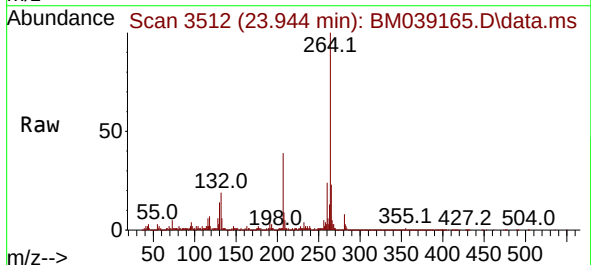
Instrument :
BNA_M
ClientSampleId :
WC01

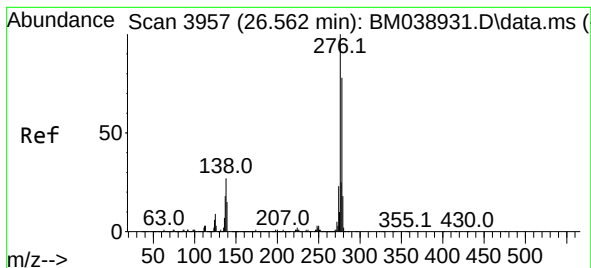
Tgt Ion:149 Resp: 7149
Ion Ratio Lower Upper
149 100
167 0.0 1.2 1.8#
43 36.7 7.4 11.2#



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.944 min Scan# 3512
Delta R.T. 0.006 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

Tgt Ion:264 Resp: 1561500
Ion Ratio Lower Upper
264 100
260 24.1 18.7 28.1
265 23.4 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 25.886 ng

RT: 26.468 min Scan# 3941

Delta R.T. -0.000 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

Instrument :

BNA_M

ClientSampleId :

WC01

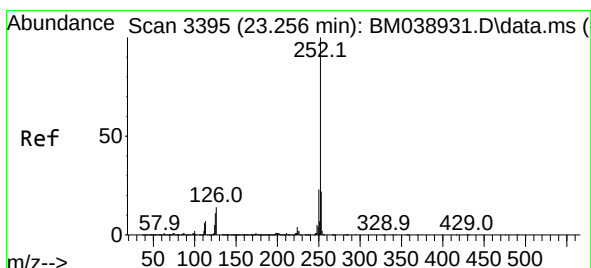
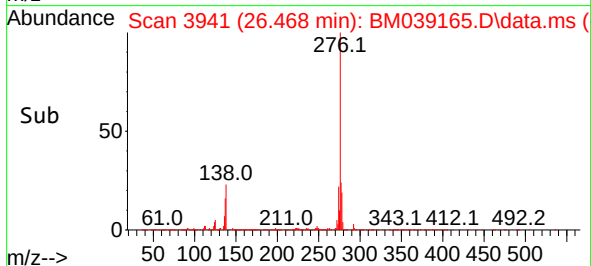
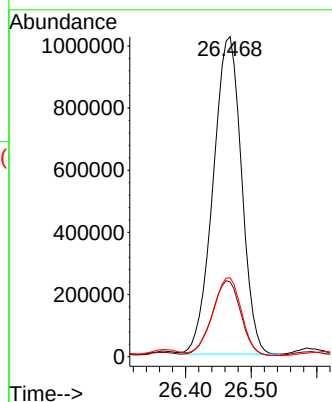
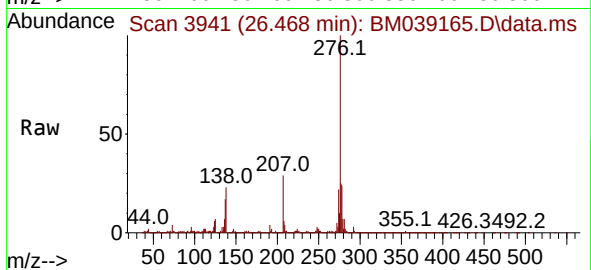
Tgt Ion:276 Resp: 3075795

Ion Ratio Lower Upper

276 100

138 24.0 22.1 33.1

277 24.9 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 63.271 ng

RT: 23.209 min Scan# 3387

Delta R.T. 0.012 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

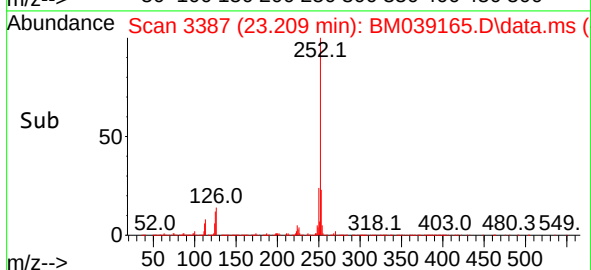
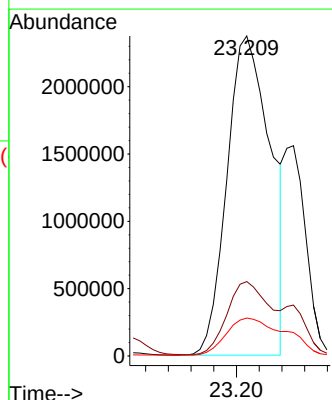
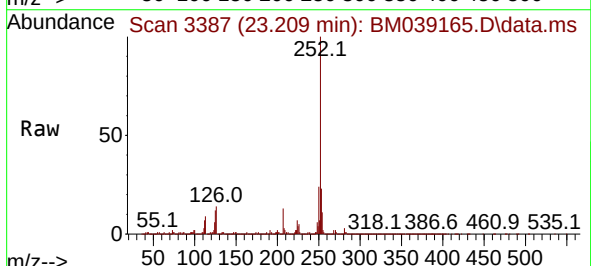
Tgt Ion:252 Resp: 6311852

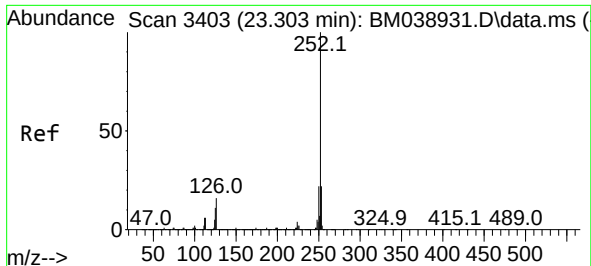
Ion Ratio Lower Upper

252 100

253 23.3 17.6 26.4

125 11.9 8.8 13.2

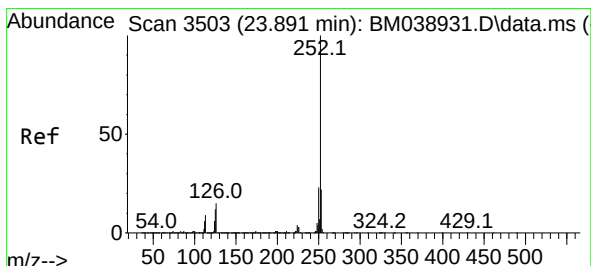
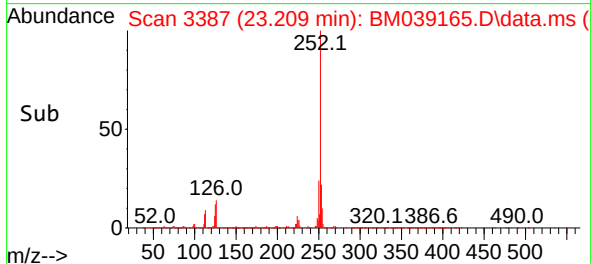
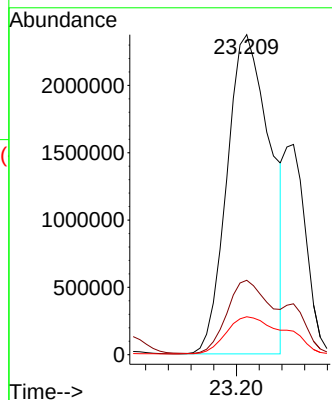
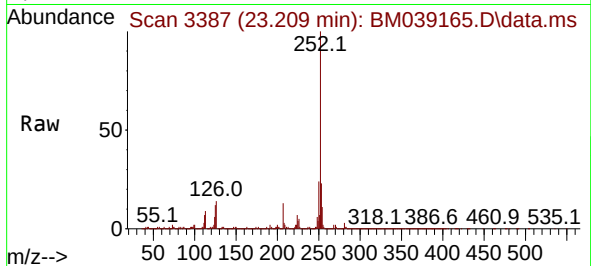




#89
Benzo(k)fluoranthene
Concen: 60.797 ng
RT: 23.209 min Scan# 31
Delta R.T. -0.041 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

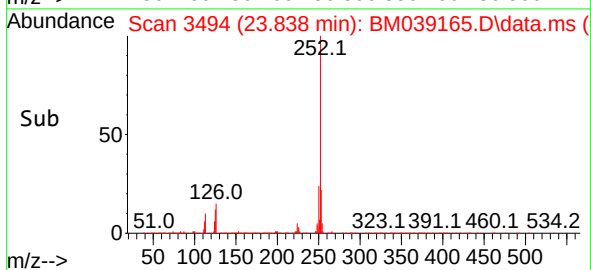
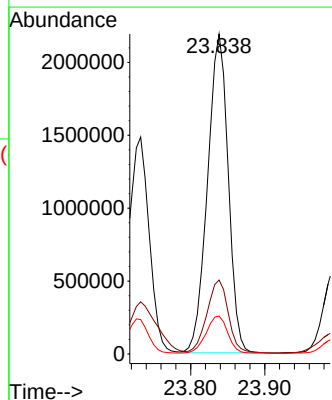
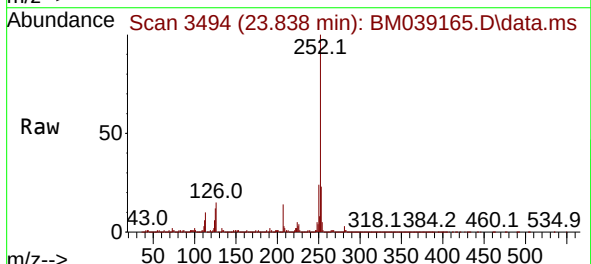
Instrument :
BNA_M
ClientSampleId :
WC01

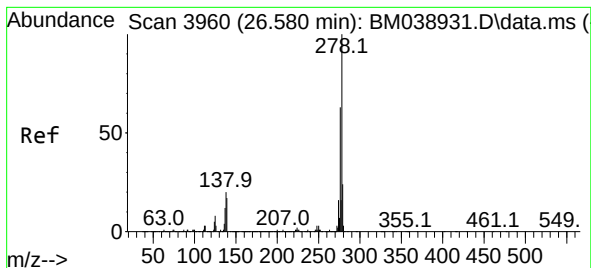
Tgt Ion:252 Resp: 6311852
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 11.9 8.9 13.3



#90
Benzo(a)pyrene
Concen: 44.132 ng
RT: 23.838 min Scan# 3494
Delta R.T. 0.006 min
Lab File: BM039165.D
Acq: 27 Mar 2023 18:01

Tgt Ion:252 Resp: 4237113
Ion Ratio Lower Upper
252 100
253 23.1 17.6 26.4
125 11.9 9.8 14.8





#91

Dibenzo(a,h)anthracene

Concen: 8.477 ng

RT: 26.468 min Scan# 3960

Delta R.T. -0.012 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

Instrument :

BNA_M

ClientSampleId :

WC01

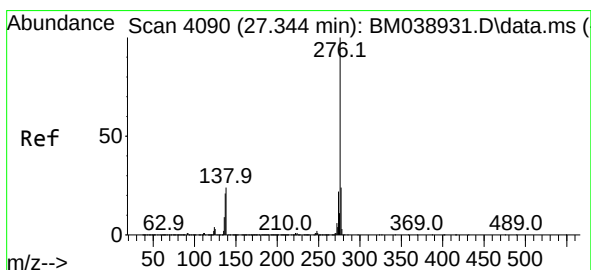
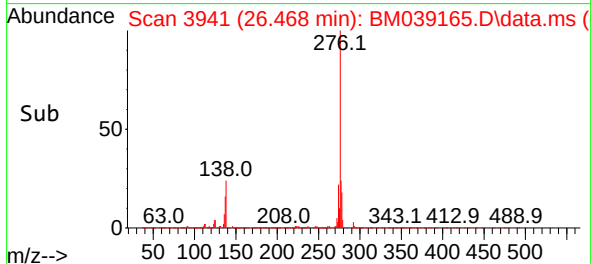
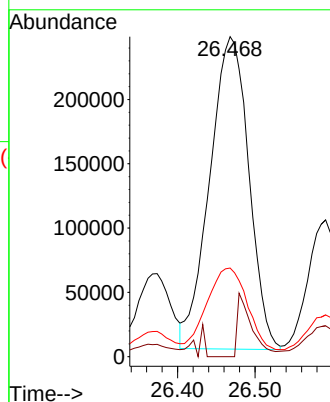
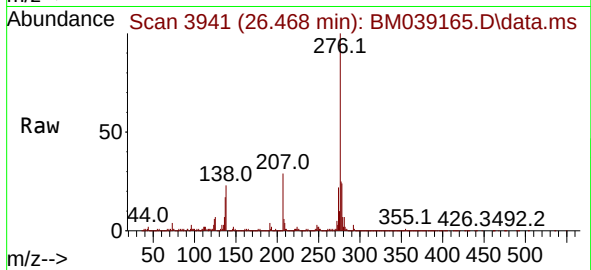
Tgt Ion:278 Resp: 853002

Ion Ratio Lower Upper

278 100

139 0.0 13.7 20.5#

279 27.7 18.9 28.3



#92

Benzo(g,h,i)perylene

Concen: 28.403 ng

RT: 27.244 min Scan# 4073

Delta R.T. -0.000 min

Lab File: BM039165.D

Acq: 27 Mar 2023 18:01

Tgt Ion:276 Resp: 2796197

Ion Ratio Lower Upper

276 100

277 24.2 19.3 28.9

138 24.5 19.0 28.6

