

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032423\
 Data File : BM039142.D
 Acq On : 24 Mar 2023 15:17
 Operator : CG/JU
 Sample : 02032-02DL2 25X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 S-2DL2

Quant Time: Mar 24 15:50:19 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 24 15:04:20 2023
 Response via : Initial Calibration

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

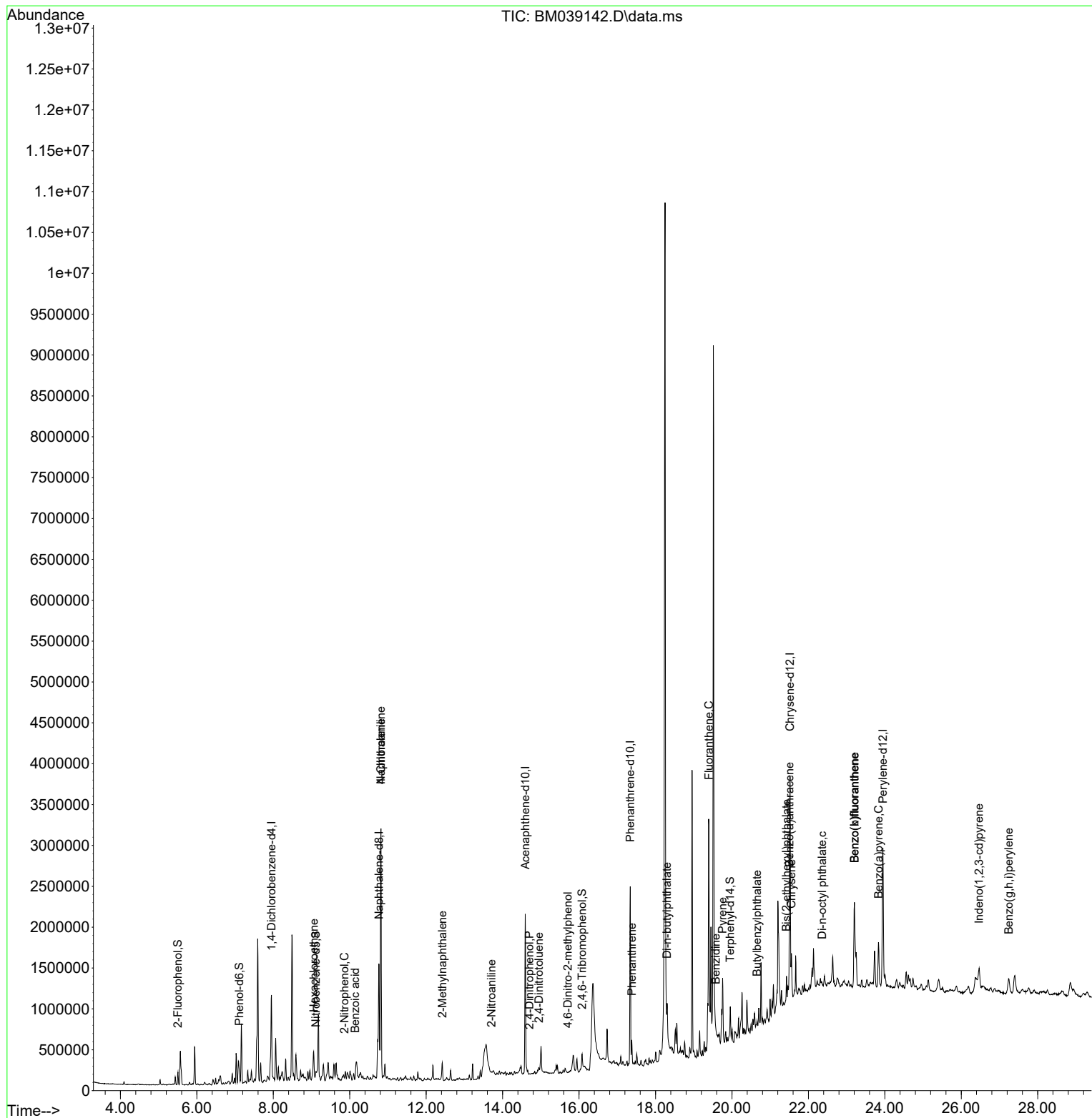
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.951	152	286814	20.000	ng	0.00
21) Naphthalene-d8	10.763	136	1144990	20.000	ng	0.00
39) Acenaphthene-d10	14.592	164	640971	20.000	ng	0.00
64) Phenanthrene-d10	17.339	188	1275011	20.000	ng	0.00
76) Chrysene-d12	21.521	240	1127252	20.000	ng	0.00
86) Perylene-d12	23.950	264	1252280	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	59085	3.130	ng	0.00
7) Phenol-d6	7.110	99	74642	3.044	ng	0.00
23) Nitrobenzene-d5	9.116	82	50574	2.170	ng	0.00
42) 2,4,6-Tribromophenol	16.080	330	23877	3.220	ng	0.00
45) 2-Fluorobiphenyl	13.216	172	98406	1.999	ng	0.00
79) Terphenyl-d14	19.956	244	173412	2.813	ng	0.00
Target Compounds						Qvalue
18) Hexachloroethane	9.063	117	21499	2.682	ng	# 1
26) 2-Nitrophenol	9.863	139	795	3.060	ng	# 1
31) Naphthalene	10.816	128	2451396	37.547	ng	100
32) Benzoic acid	10.139	122	332	5.754	ng	# 1
33) 4-Chloroaniline	10.816	127	315091	11.324	ng	# 32
37) 2-Methylnaphthalene	12.422	142	103359	2.362	ng	99
48) 2-Nitroaniline	13.710	65	279	2.236	ng	# 62
54) 2,4-Dinitrophenol	14.704	184	183	5.218	ng	# 1
57) 2,4-Dinitrotoluene	14.951	165	5893	2.464	ng	# 76
65) 4,6-Dinitro-2-methylph...	15.704	198	268	5.117	ng	# 1
71) Phenanthrene	17.380	178	175847	2.350	ng	99
74) Di-n-butylphthalate	18.303	149	287450	5.129	ng	100
75) Fluoranthene	19.398	202	546757	6.920	ng	97
77) Benzidine	19.580	184	346	4.888	ng	# 1
78) Pyrene	19.756	202	471208	5.566	ng	99
80) Butylbenzylphthalate	20.656	149	3144	3.397	ng	# 52
81) Benzo(a)anthracene	21.503	228	358564	4.417	ng	98
83) Chrysene	21.556	228	401571	5.086	ng	97
84) Bis(2-ethylhexyl)phtha...	21.427	149	125380	4.769	ng	98
85) Di-n-octyl phthalate	22.362	149	7761	3.879	ng	# 72
87) Indeno(1,2,3-cd)pyrene	26.468	276	249517	2.619	ng	97
88) Benzo(b)fluoranthene	23.209	252	756769	9.459	ng	97
89) Benzo(k)fluoranthene	23.209	252	756769	9.089	ng	97
90) Benzo(a)pyrene	23.838	252	317955	4.129	ng	97
92) Benzo(g,h,i)perylene	27.244	276	224913	2.849	ng	98

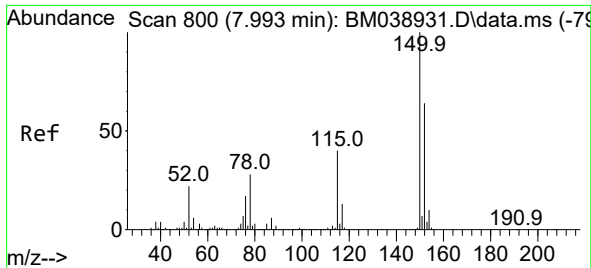
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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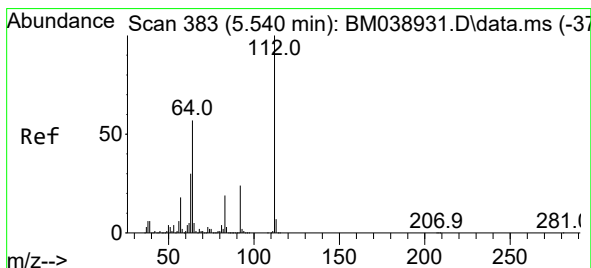
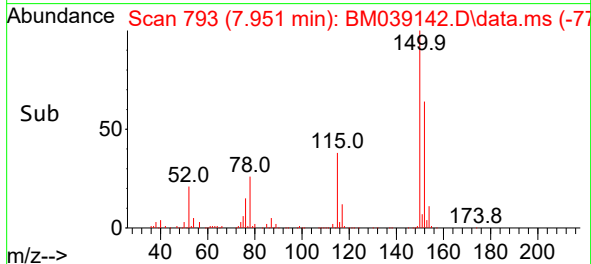
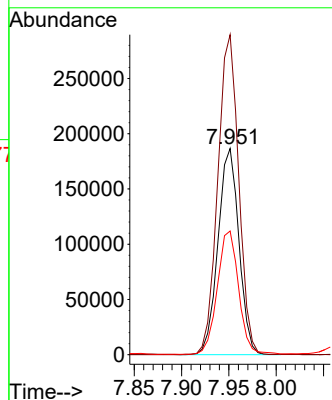
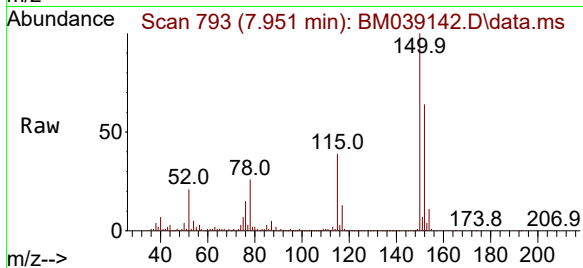




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.951 min Scan# 79
 Delta R.T. 0.000 min
 Lab File: BM039142.D
 Acq: 24 Mar 2023 15:17

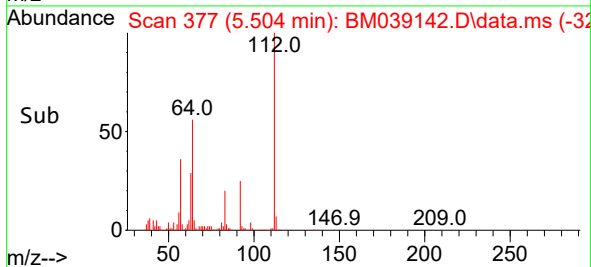
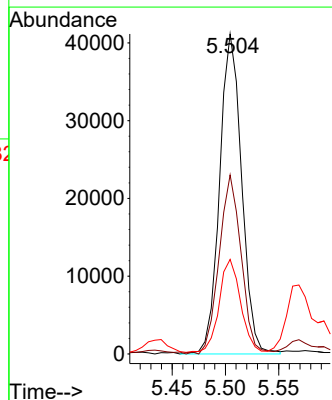
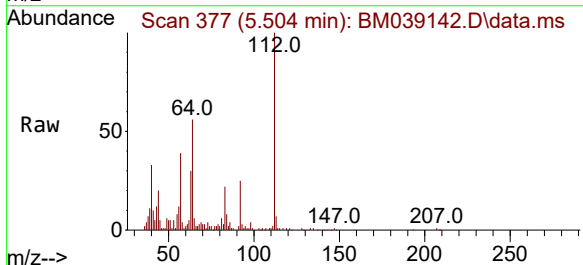
Instrument :
 BNA_M
 ClientSampleId :
 S-2DL2

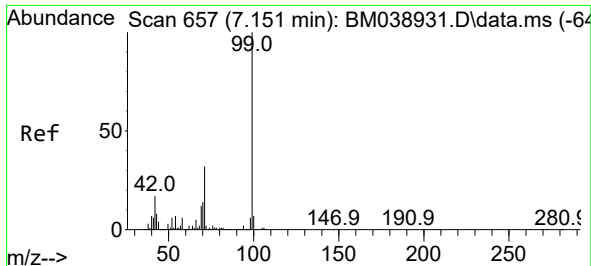
Tgt Ion:152 Resp: 286814
 Ion Ratio Lower Upper
 152 100
 150 155.2 125.1 187.7
 115 60.0 49.6 74.4



#5
 2-Fluorophenol
 Concen: 3.130 ng
 RT: 5.504 min Scan# 377
 Delta R.T. -0.000 min
 Lab File: BM039142.D
 Acq: 24 Mar 2023 15:17

Tgt Ion:112 Resp: 59085
 Ion Ratio Lower Upper
 112 100
 64 56.0 45.9 68.9
 63 29.5 23.8 35.8

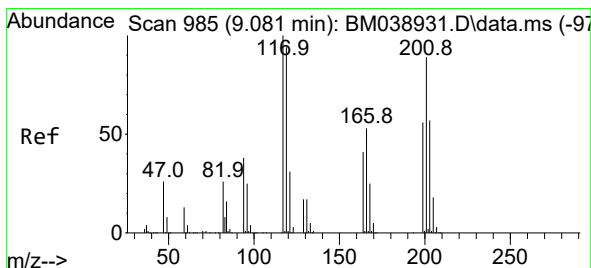
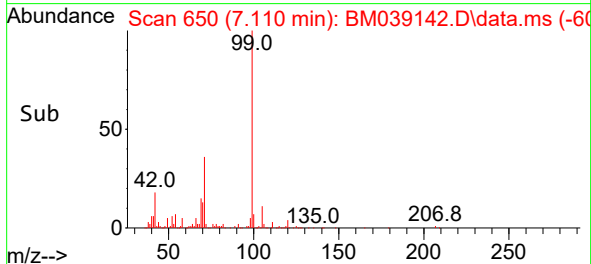
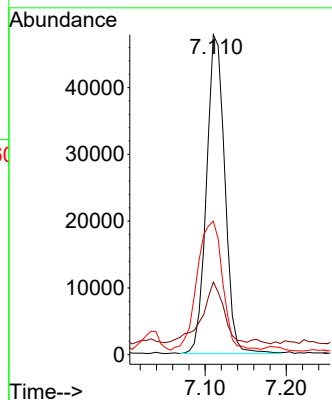
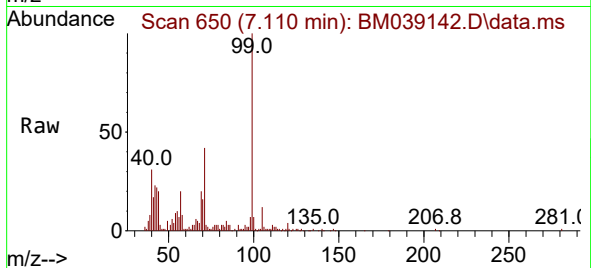




#7
Phenol-d6
Concen: 3.044 ng
RT: 7.110 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

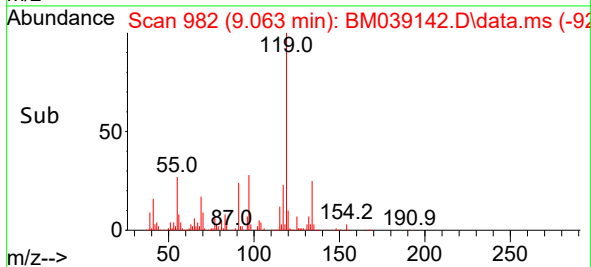
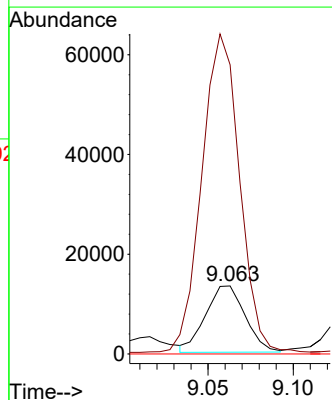
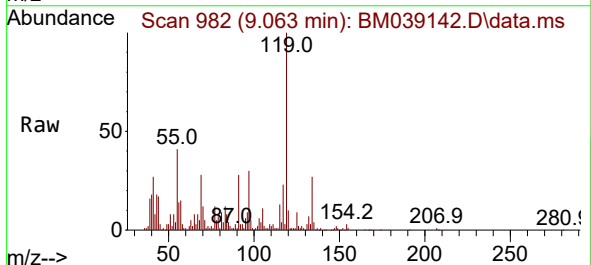
Instrument :
BNA_M
ClientSampleId :
S-2DL2

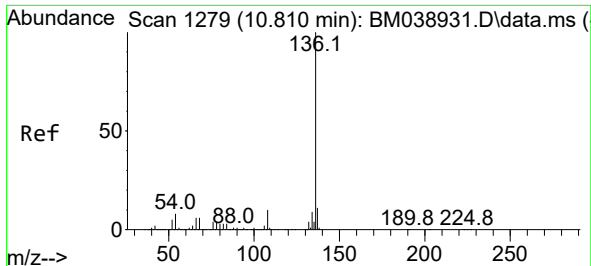
Tgt Ion: 99 Resp: 74642
Ion Ratio Lower Upper
99 100
42 22.7 13.5 20.3#
71 41.7 25.6 38.4#



#18
Hexachloroethane
Concen: 2.682 ng
RT: 9.063 min Scan# 982
Delta R.T. 0.024 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

Tgt Ion: 117 Resp: 21499
Ion Ratio Lower Upper
117 100
119 425.8 75.4 113.0#
201 0.0 71.3 106.9#

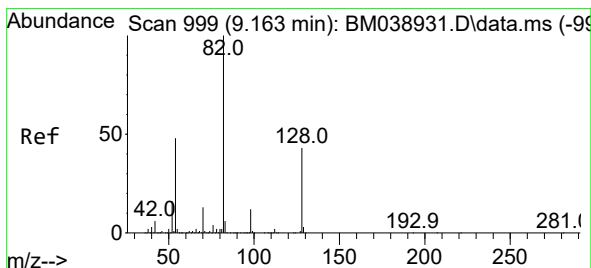
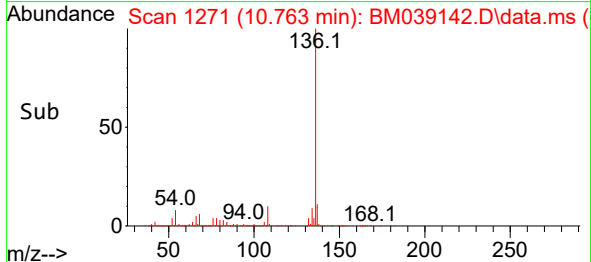
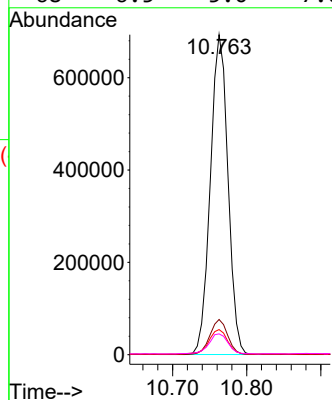
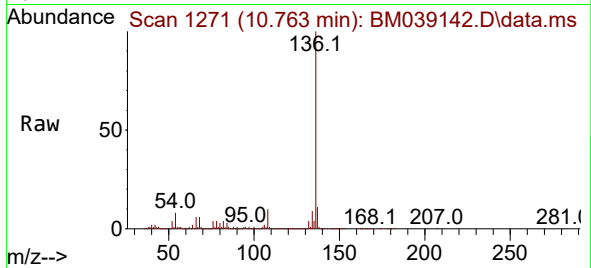




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.763 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

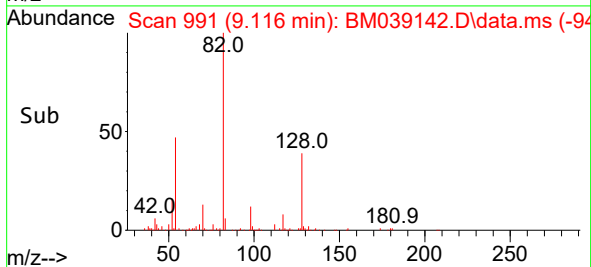
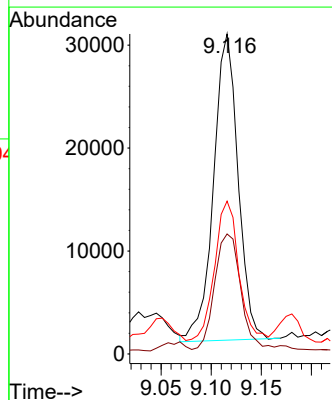
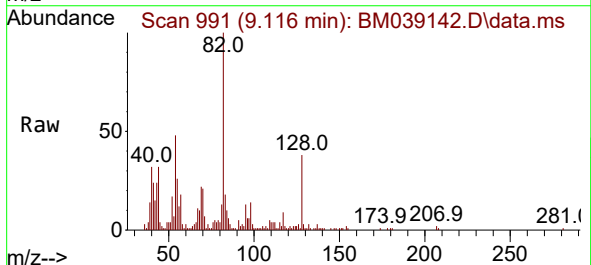
Instrument :
BNA_M
ClientSampleId :
S-2DL2

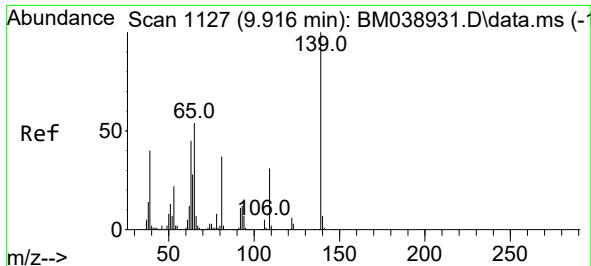
Tgt Ion:136 Resp: 1144990
Ion Ratio Lower Upper
136 100
137 11.0 8.7 13.1
54 7.9 6.3 9.5
68 6.5 5.0 7.6



#23
Nitrobenzene-d5
Concen: 2.170 ng
RT: 9.116 min Scan# 991
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

Tgt Ion: 82 Resp: 50574
Ion Ratio Lower Upper
82 100
128 37.5 34.4 51.6
54 47.8 38.8 58.2

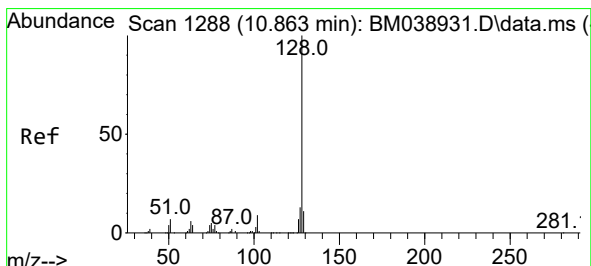
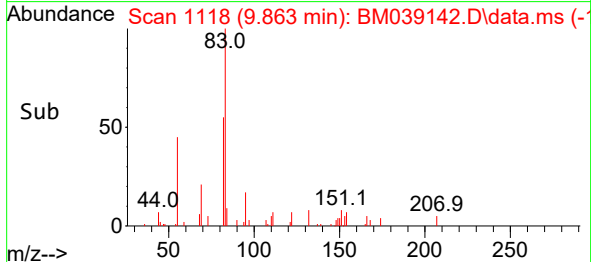
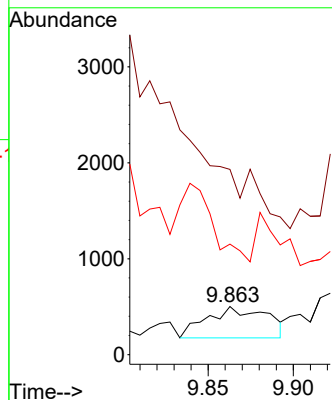
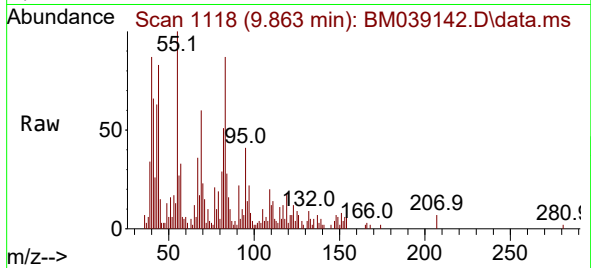




#26
2-Nitrophenol
Concen: 3.060 ng
RT: 9.863 min Scan# 1118
Delta R.T. -0.018 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

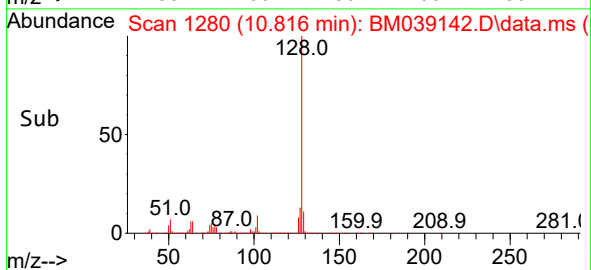
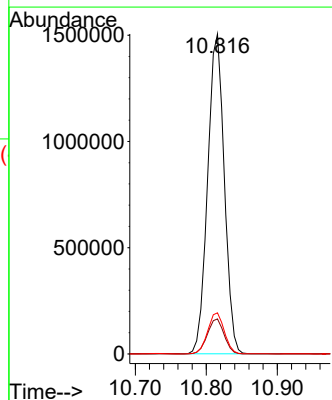
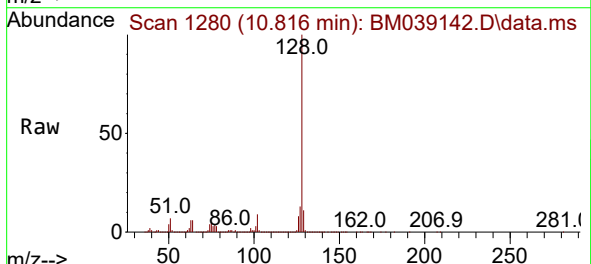
Instrument :
BNA_M
ClientSampleId :
S-2DL2

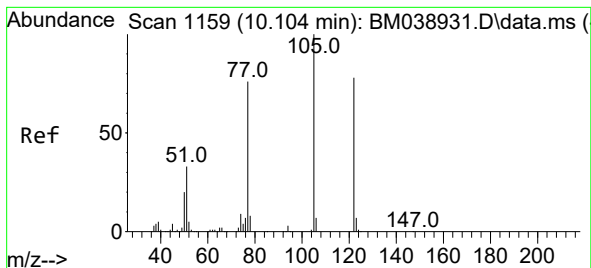
Tgt Ion:139 Resp: 795
Ion Ratio Lower Upper
139 100
109 384.9 24.5 36.7#
65 229.7 43.0 64.6#



#31
Naphthalene
Concen: 37.547 ng
RT: 10.816 min Scan# 1280
Delta R.T. -0.000 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

Tgt Ion:128 Resp: 2451396
Ion Ratio Lower Upper
128 100
129 10.9 8.6 13.0
127 12.9 10.2 15.4





#32

Benzoic acid

Concen: 5.754 ng

RT: 10.139 min Scan# 1159

Delta R.T. 0.047 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

Instrument :

BNA_M

ClientSampleId :

S-2DL2

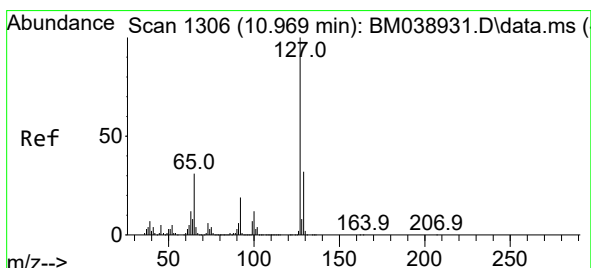
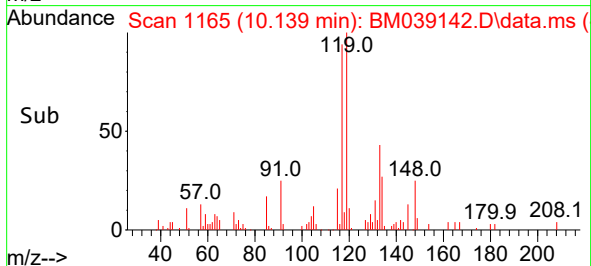
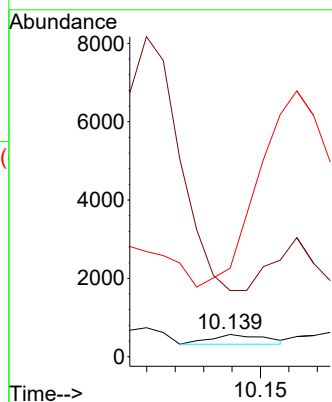
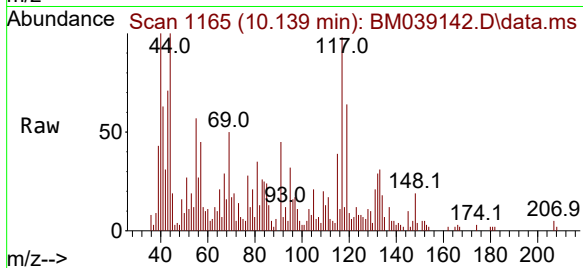
Tgt Ion:122 Resp: 332

Ion Ratio Lower Upper

122 100

105 296.7 104.2 144.2#

77 397.2 75.1 115.1#



#33

4-Chloroaniline

Concen: 11.324 ng

RT: 10.816 min Scan# 1280

Delta R.T. -0.112 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

Tgt Ion:127 Resp: 315091

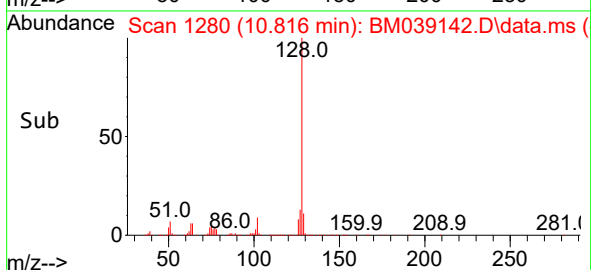
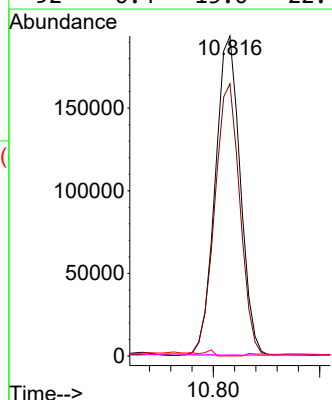
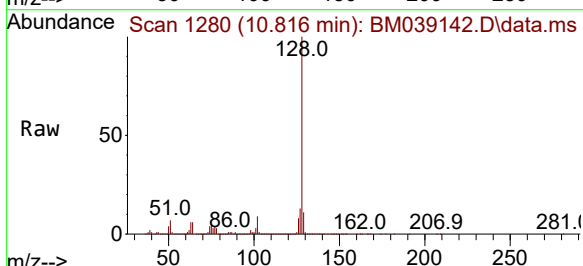
Ion Ratio Lower Upper

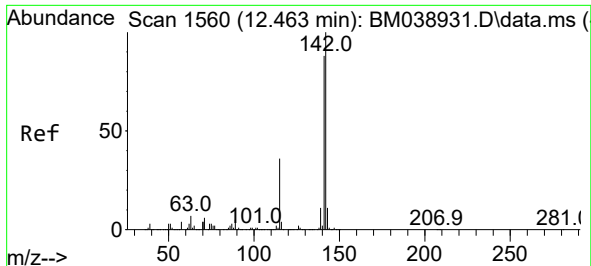
127 100

129 85.1 25.4 38.2#

65 0.0 24.4 36.6#

92 0.4 15.0 22.4#

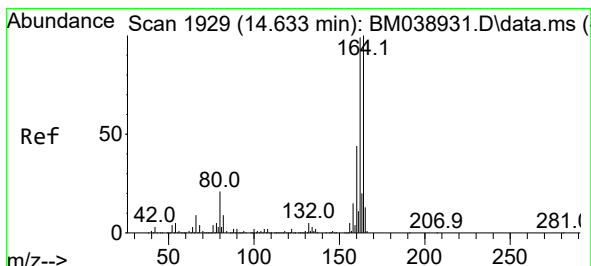
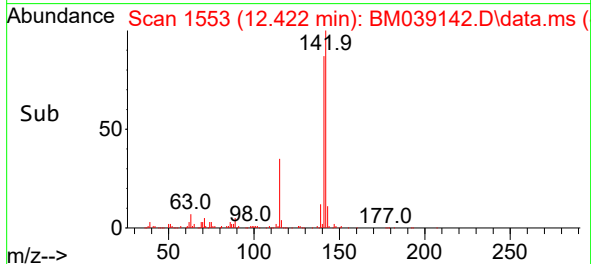
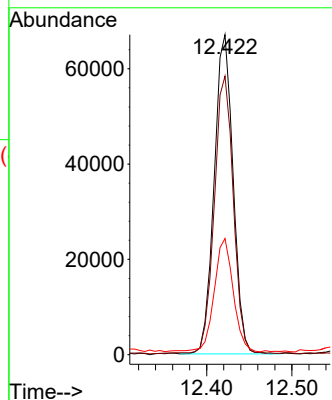
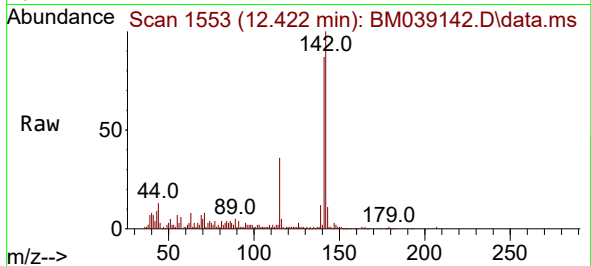




#37
2-Methylnaphthalene
Concen: 2.362 ng
RT: 12.422 min Scan# 1553
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

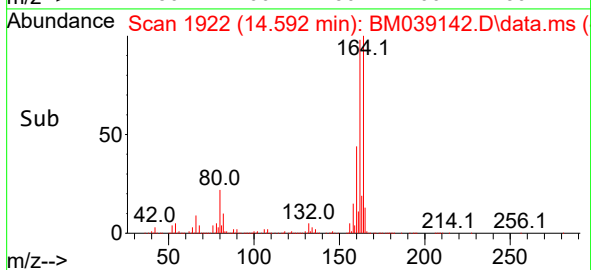
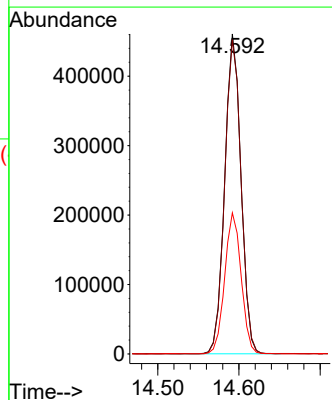
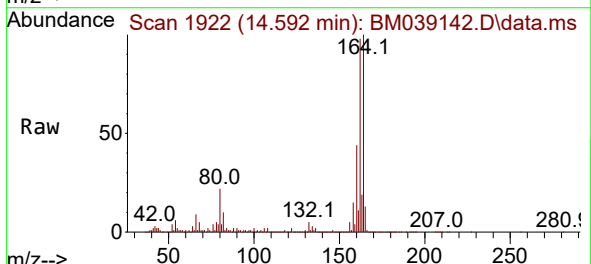
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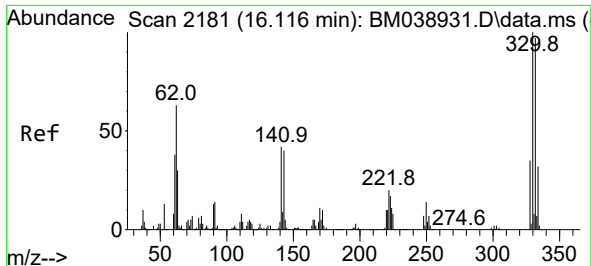
Tgt Ion:142 Resp: 103359
Ion Ratio Lower Upper
142 100
141 87.1 70.6 106.0
115 36.3 28.5 42.7



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.592 min Scan# 1922
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

Tgt Ion:164 Resp: 640971
Ion Ratio Lower Upper
164 100
162 98.2 79.2 118.8
160 44.1 35.5 53.3

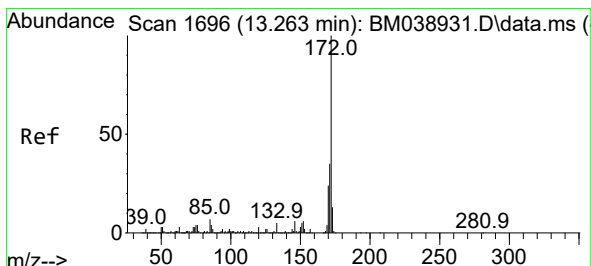
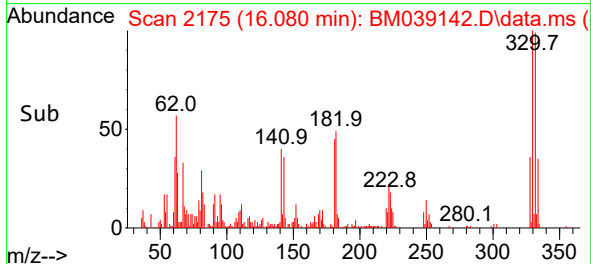
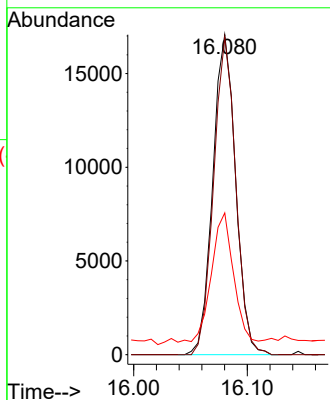
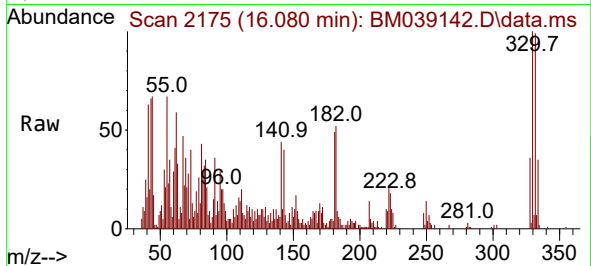




#42
2,4,6-Tribromophenol
Concen: 3.220 ng
RT: 16.080 min Scan# 2181
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

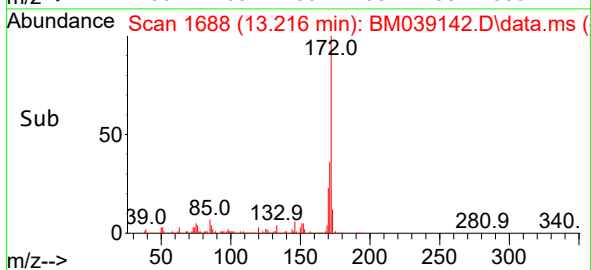
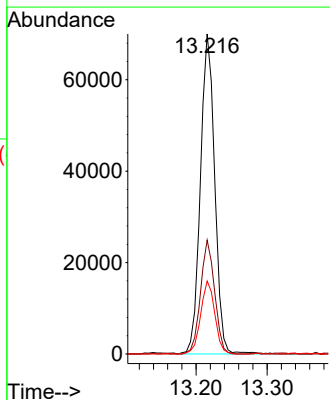
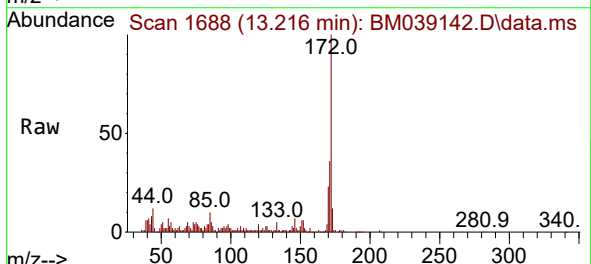
Instrument :
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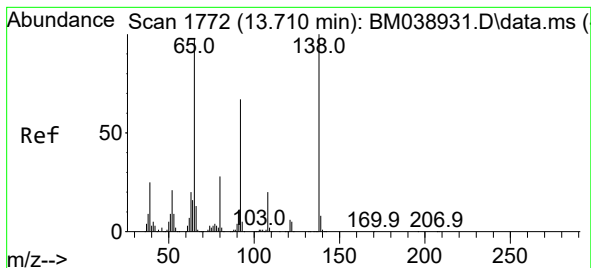
Tgt Ion:330 Resp: 23877
Ion Ratio Lower Upper
330 100
332 96.2 77.4 116.0
141 38.7 32.2 48.4



#45
2-Fluorobiphenyl
Concen: 1.999 ng
RT: 13.216 min Scan# 1688
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

Tgt Ion:172 Resp: 98406
Ion Ratio Lower Upper
172 100
171 35.6 28.2 42.2
170 22.8 19.1 28.7





#48

2-Nitroaniline

Concen: 2.236 ng

RT: 13.710 min Scan# 11

Delta R.T. 0.029 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

Instrument :

BNA_M

ClientSampleId :

S-2DL2

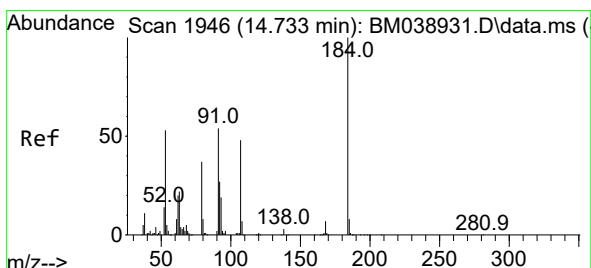
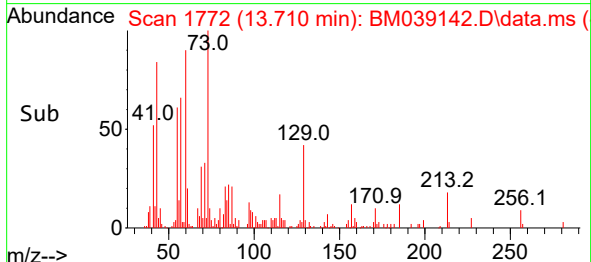
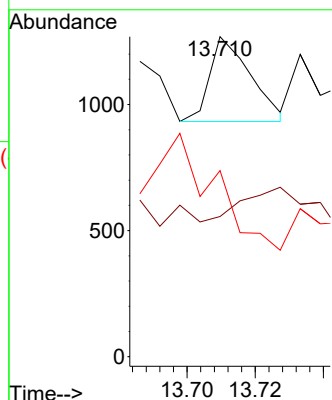
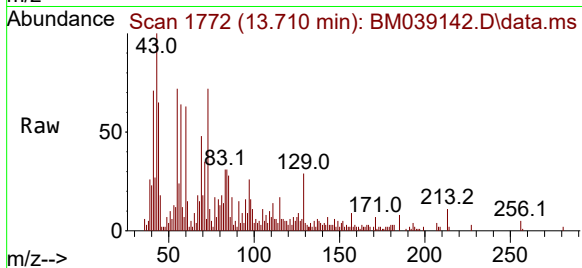
Tgt Ion: 65 Resp: 279

Ion Ratio Lower Upper

65 100

92 43.8 54.9 82.3#

138 58.2 81.6 122.4#



#54

2,4-Dinitrophenol

Concen: 5.218 ng

RT: 14.704 min Scan# 1941

Delta R.T. -0.012 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

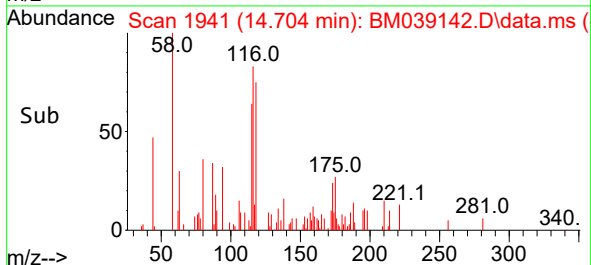
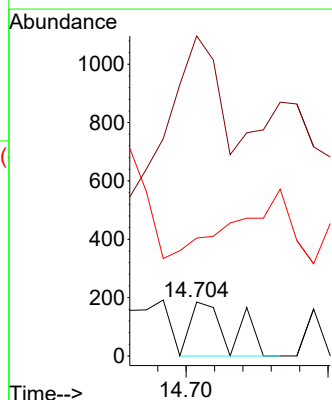
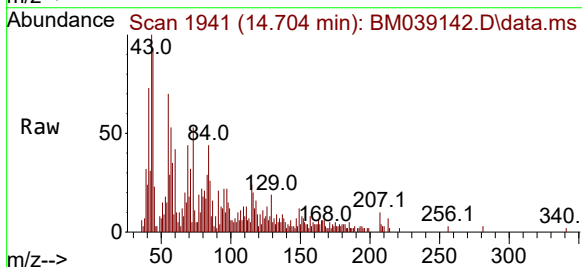
Tgt Ion:184 Resp: 183

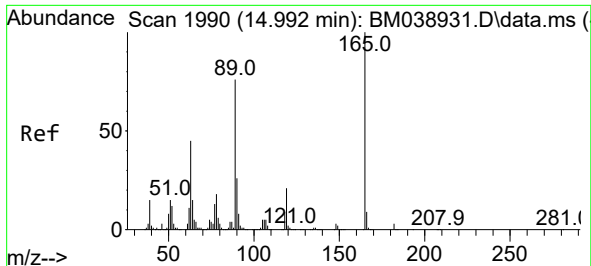
Ion Ratio Lower Upper

184 100

63 593.0 60.6 90.8#

154 218.4 51.4 77.2#





#57

2,4-Dinitrotoluene

Concen: 2.464 ng

RT: 14.951 min Scan# 1990

Delta R.T. -0.012 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

Instrument :

BNA_M

ClientSampleId :

S-2DL2

Tgt Ion:165 Resp: 5893

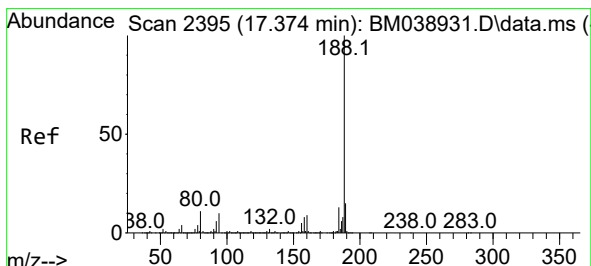
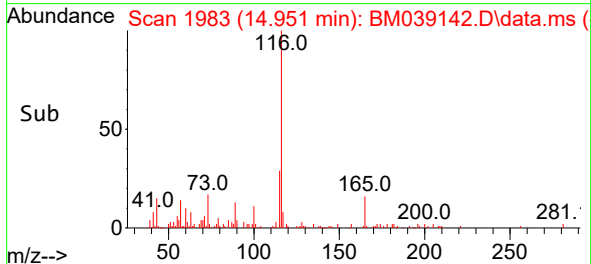
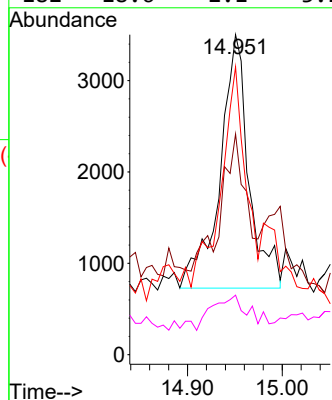
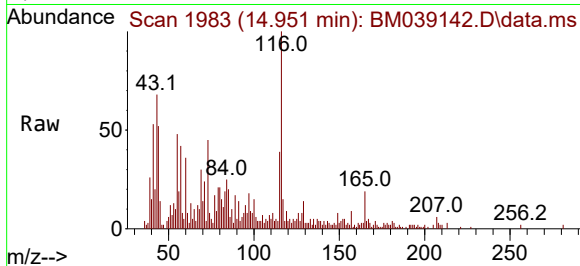
Ion Ratio Lower Upper

165 100

63 69.0 35.9 53.9#

89 90.0 61.0 91.6

182 18.6 2.1 3.1#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.339 min Scan# 2389

Delta R.T. -0.006 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

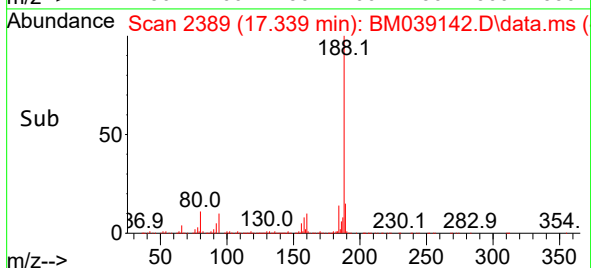
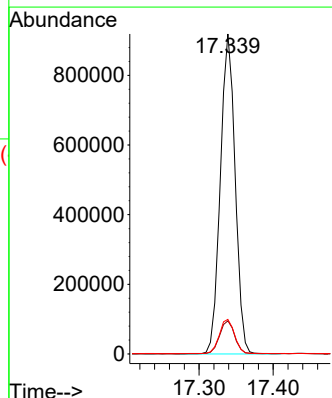
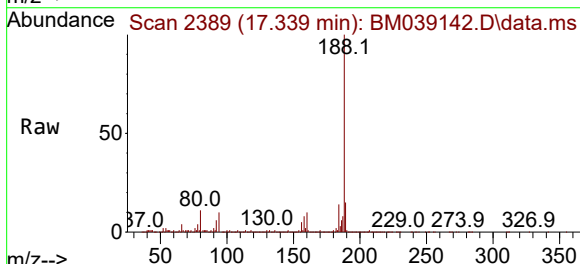
Tgt Ion:188 Resp: 1275011

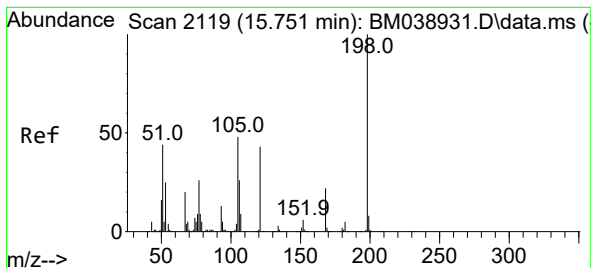
Ion Ratio Lower Upper

188 100

94 10.4 7.9 11.9

80 10.8 8.5 12.7

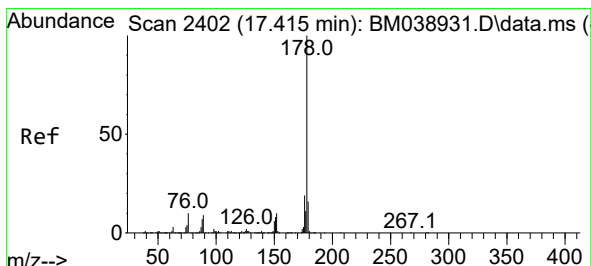
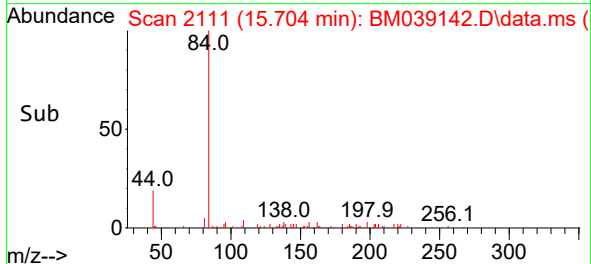
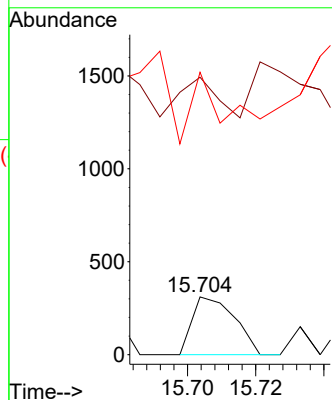
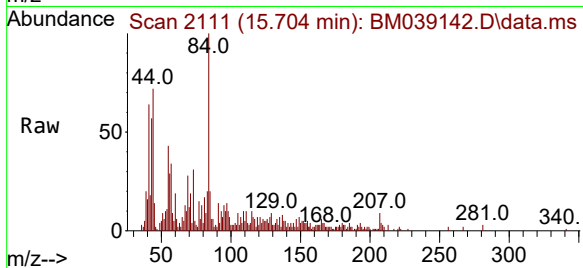




#65
4,6-Dinitro-2-methylphenol
Concen: 5.117 ng
RT: 15.704 min Scan# 2111
Delta R.T. -0.024 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

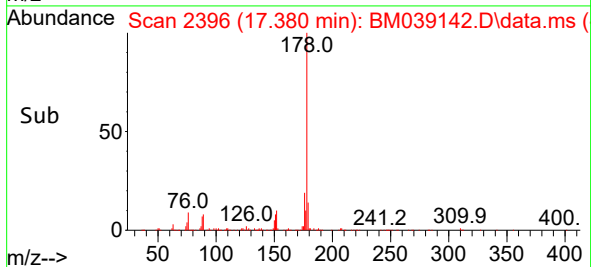
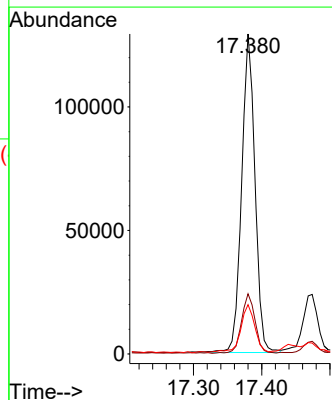
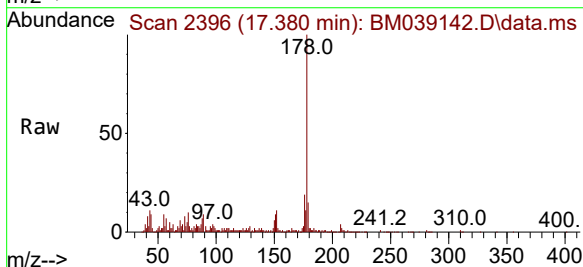
Instrument :
BNA_M
ClientSampleId :
S-2DL2

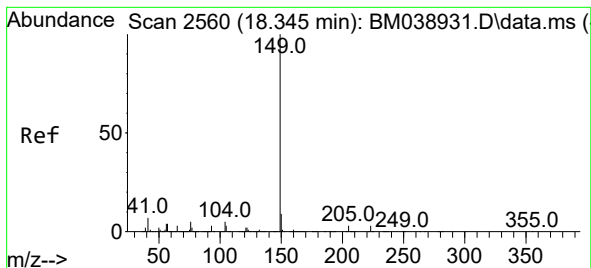
Tgt Ion:198 Resp: 268
Ion Ratio Lower Upper
198 100
51 480.1 30.1 70.1#
105 488.7 29.3 69.3#



#71
Phenanthrene
Concen: 2.350 ng
RT: 17.380 min Scan# 2396
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

Tgt Ion:178 Resp: 175847
Ion Ratio Lower Upper
178 100
176 18.8 15.6 23.4
179 15.4 12.5 18.7





#74

Di-n-butylphthalate

Concen: 5.129 ng

RT: 18.303 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

Instrument :

BNA_M

ClientSampleId :

S-2DL2

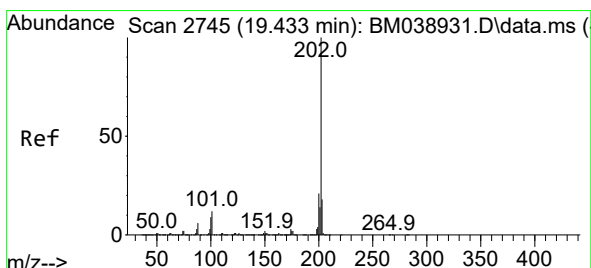
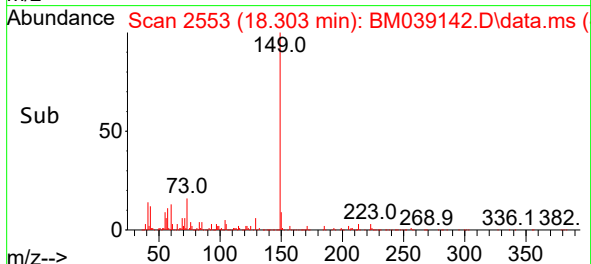
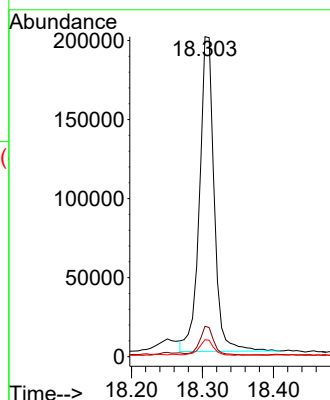
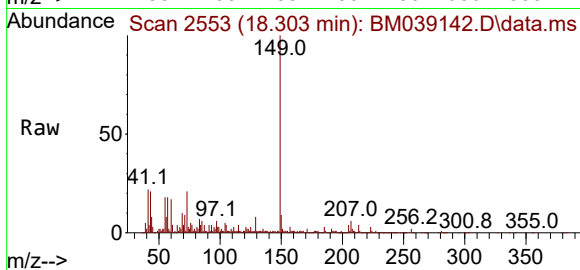
Tgt Ion:149 Resp: 287450

Ion Ratio Lower Upper

149 100

150 9.5 7.4 11.2

104 5.3 4.3 6.5



#75

Fluoranthene

Concen: 6.920 ng

RT: 19.398 min Scan# 2739

Delta R.T. -0.000 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

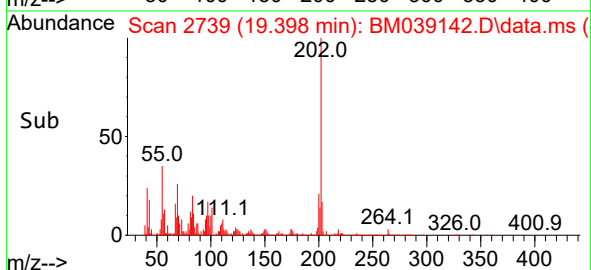
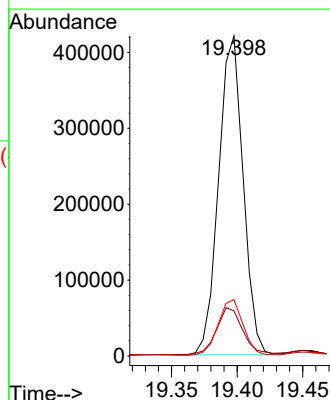
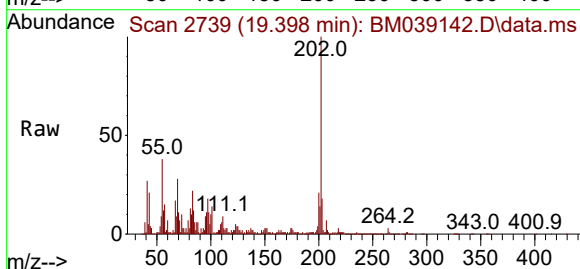
Tgt Ion:202 Resp: 546757

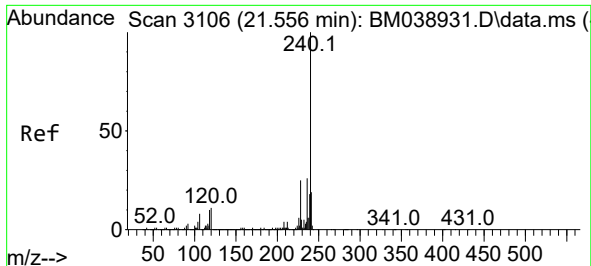
Ion Ratio Lower Upper

202 100

101 14.1 0.0 31.7

203 17.6 0.0 37.6

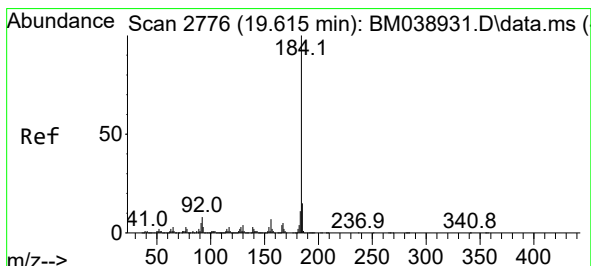
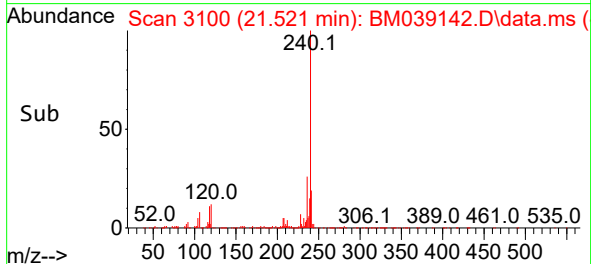
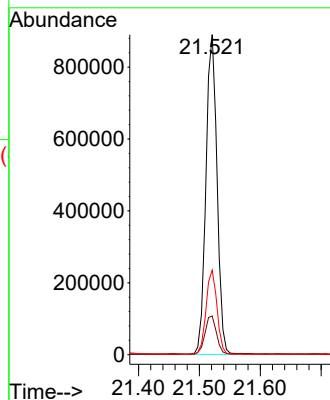
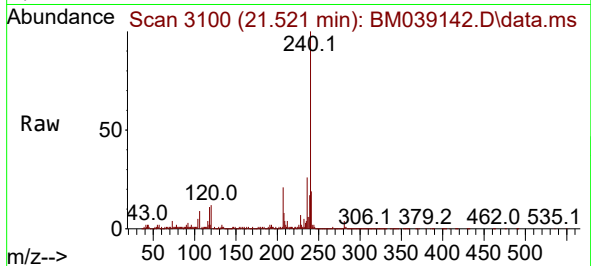




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.521 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

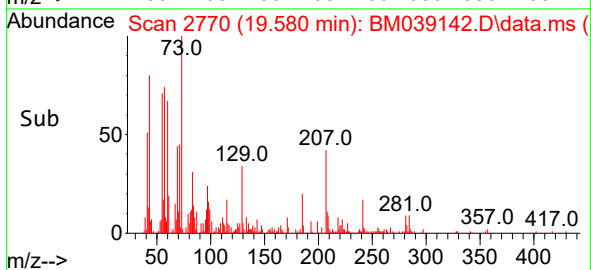
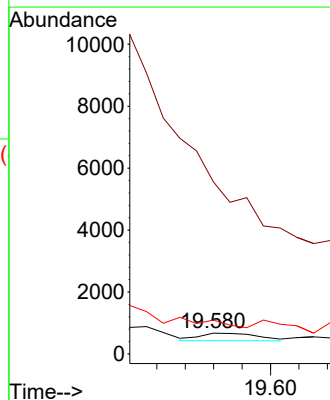
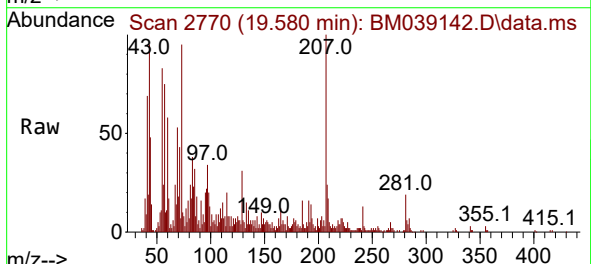
Instrument :
BNA_M
ClientSampleId :
S-2DL2

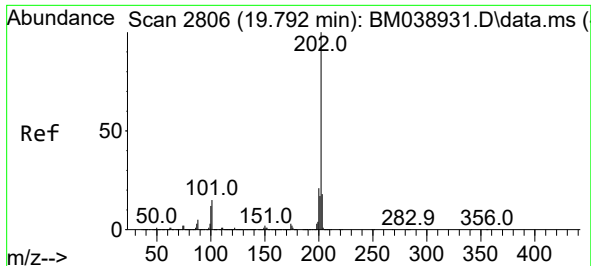
Tgt Ion:240 Resp: 1127252
Ion Ratio Lower Upper
240 100
120 12.1 9.2 13.8
236 26.4 20.8 31.2



#77
Benzidine
Concen: 4.888 ng
RT: 19.580 min Scan# 2770
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

Tgt Ion:184 Resp: 346
Ion Ratio Lower Upper
184 100
185 829.6 12.2 18.4#
183 163.9 8.8 13.2#

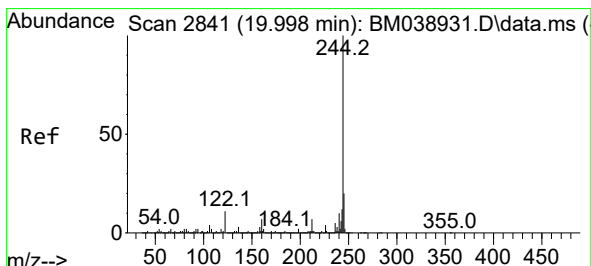
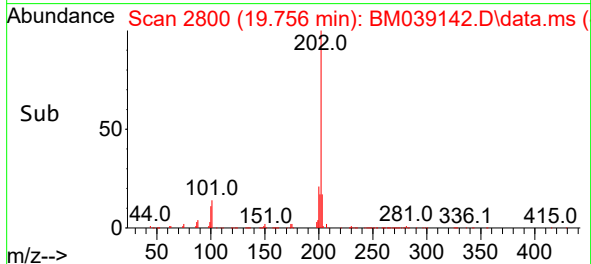
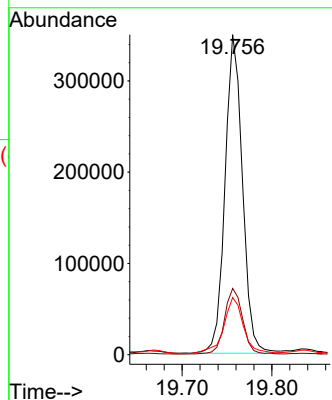
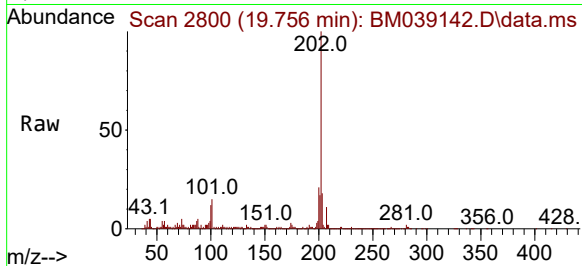




#78
Pyrene
Concen: 5.566 ng
RT: 19.756 min Scan# 2800
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

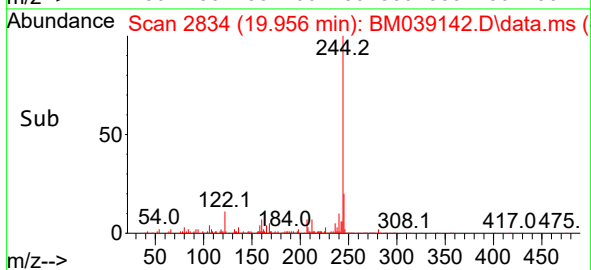
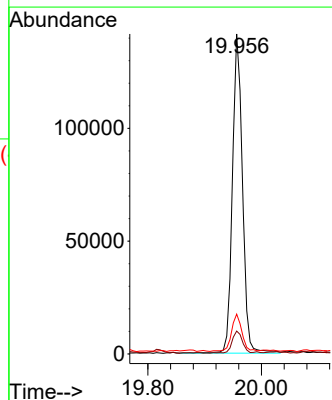
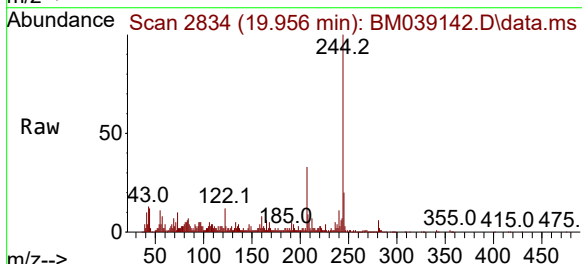
Instrument :
BNA_M
ClientSampleId :
S-2DL2

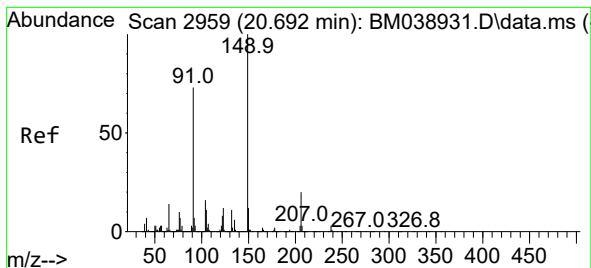
Tgt Ion:202 Resp: 471208
Ion Ratio Lower Upper
202 100
200 20.7 17.1 25.7
203 17.8 14.1 21.1



#79
Terphenyl-d14
Concen: 2.813 ng
RT: 19.956 min Scan# 2834
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

Tgt Ion:244 Resp: 173412
Ion Ratio Lower Upper
244 100
212 7.1 5.5 8.3
122 12.4 9.0 13.4





#80

Butylbenzylphthalate

Concen: 3.397 ng

RT: 20.656 min Scan# 2959

Delta R.T. -0.000 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

Instrument :

BNA_M

ClientSampleId :

S-2DL2

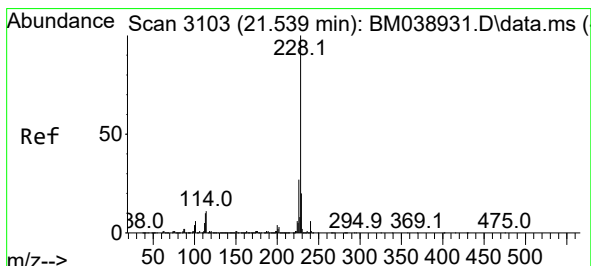
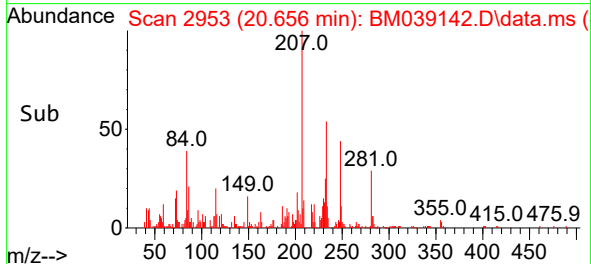
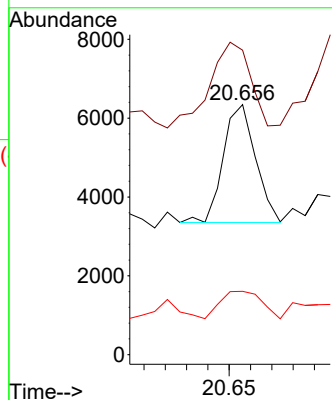
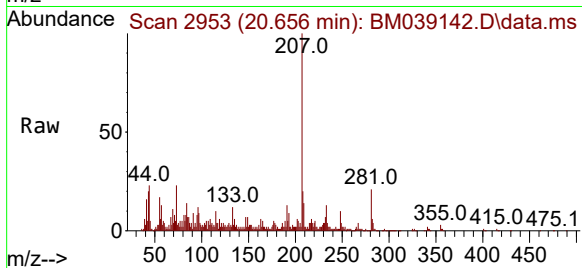
Tgt Ion:149 Resp: 3144

Ion Ratio Lower Upper

149 100

91 121.7 58.4 87.6#

206 25.3 16.1 24.1#



#81

Benzo(a)anthracene

Concen: 4.417 ng

RT: 21.503 min Scan# 3097

Delta R.T. -0.006 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

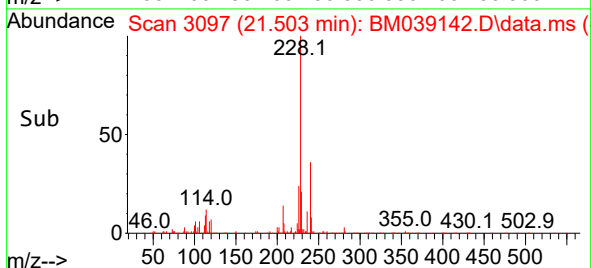
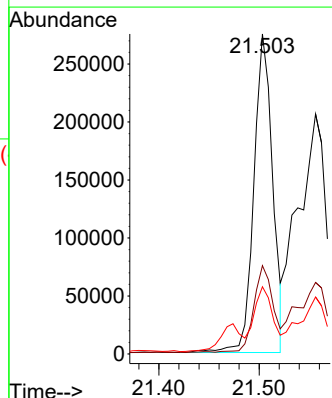
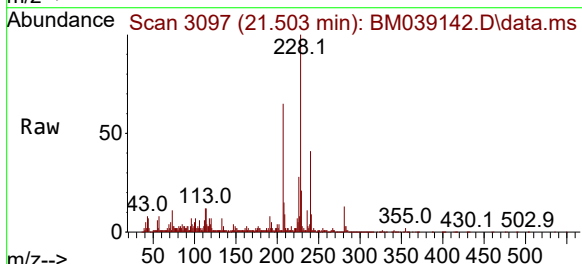
Tgt Ion:228 Resp: 358564

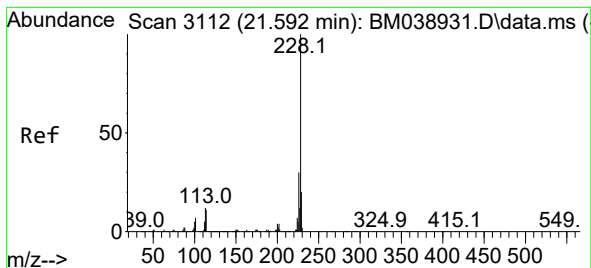
Ion Ratio Lower Upper

228 100

226 27.6 21.4 32.2

229 21.0 15.7 23.5





#83

Chrysene

Concen: 5.086 ng

RT: 21.556 min Scan# 3112

Delta R.T. -0.006 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

Instrument :

BNA_M

ClientSampleId :

S-2DL2

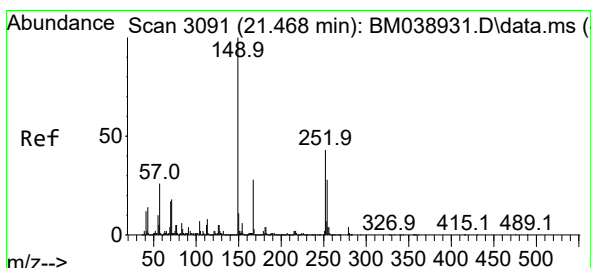
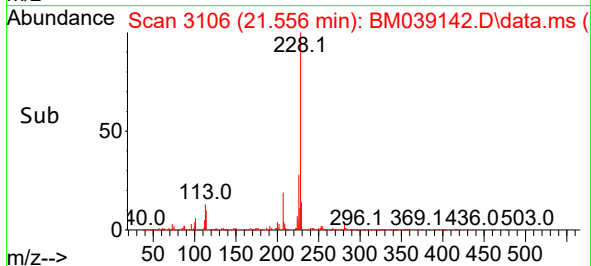
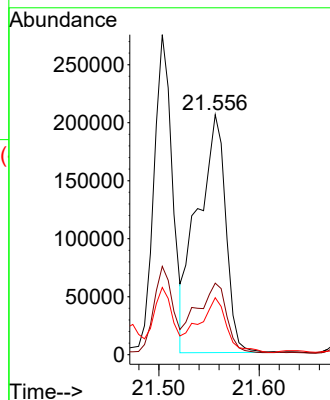
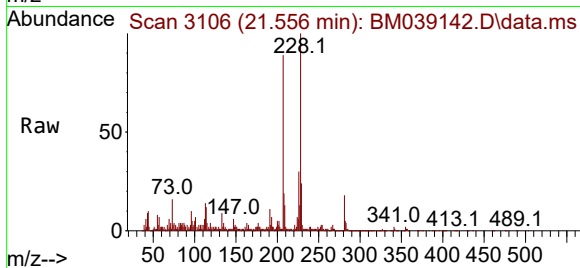
Tgt Ion:228 Resp: 401571

Ion Ratio Lower Upper

228 100

226 29.8 24.0 36.0

229 23.7 16.0 24.0



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.769 ng

RT: 21.427 min Scan# 3084

Delta R.T. -0.006 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

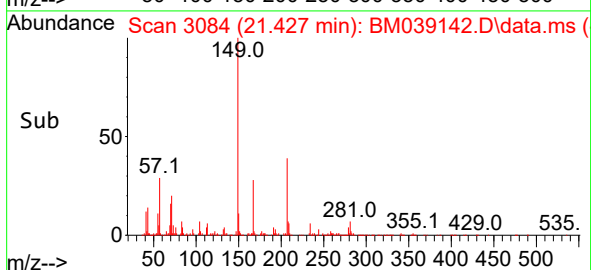
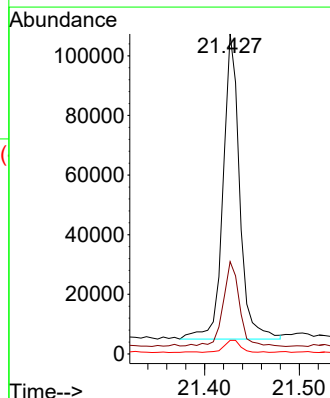
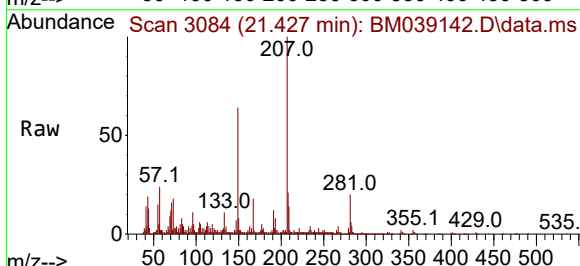
Tgt Ion:149 Resp: 125380

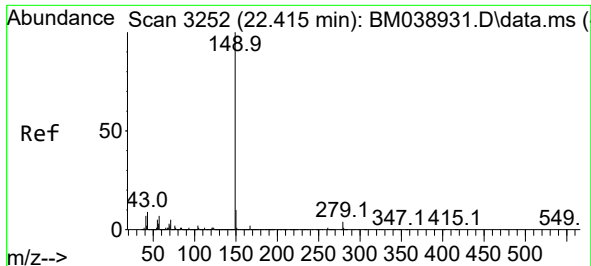
Ion Ratio Lower Upper

149 100

167 28.8 22.3 33.5

279 4.3 3.2 4.8

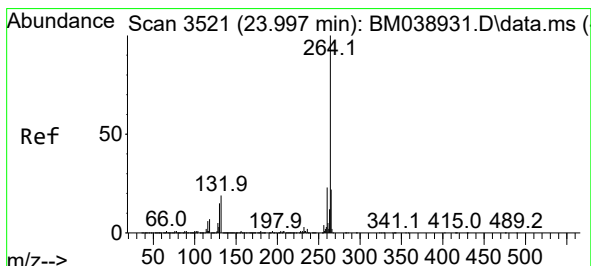
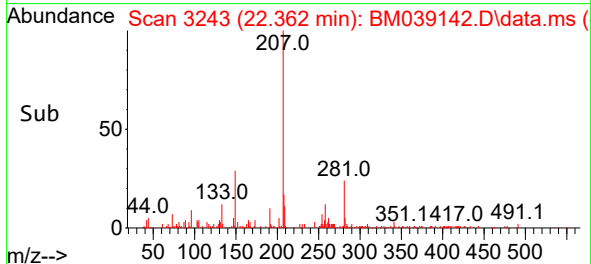
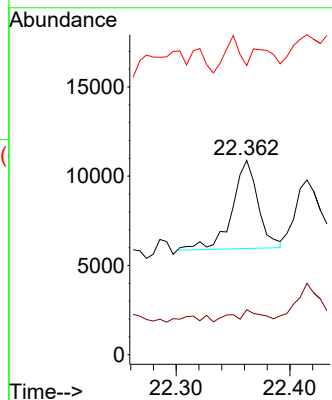
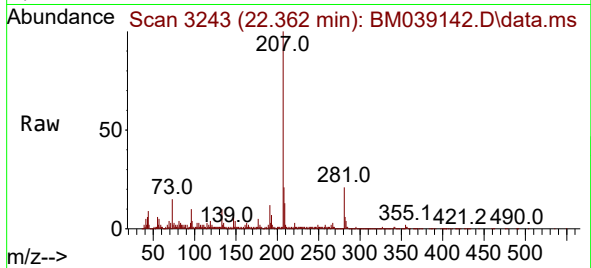




#85
Di-n-octyl phthalate
Concen: 3.879 ng
RT: 22.362 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

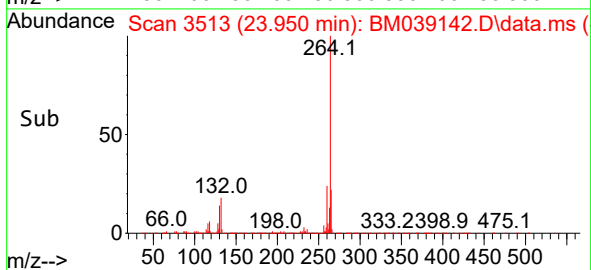
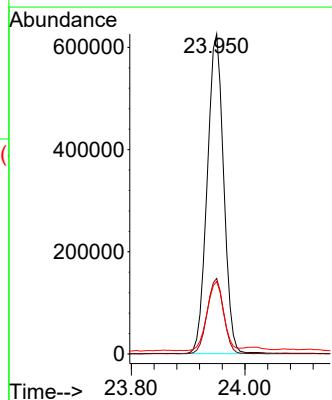
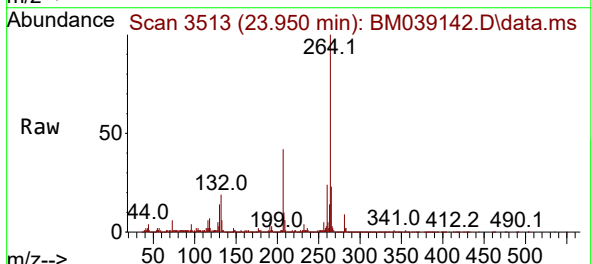
Instrument :
BNA_M
ClientSampleId :
S-2DL2

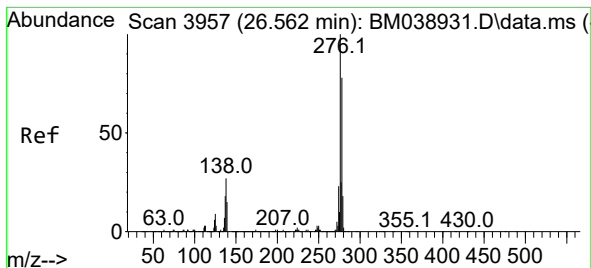
Tgt Ion:149 Resp: 7761
Ion Ratio Lower Upper
149 100
167 17.9 1.2 1.8#
43 0.0 7.4 11.2#



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.950 min Scan# 3513
Delta R.T. -0.006 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

Tgt Ion:264 Resp: 1252280
Ion Ratio Lower Upper
264 100
260 23.6 18.7 28.1
265 22.6 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.619 ng

RT: 26.468 min Scan# 3941

Delta R.T. -0.024 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

Instrument :

BNA_M

ClientSampleId :

S-2DL2

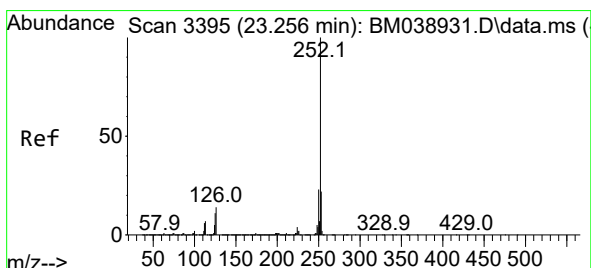
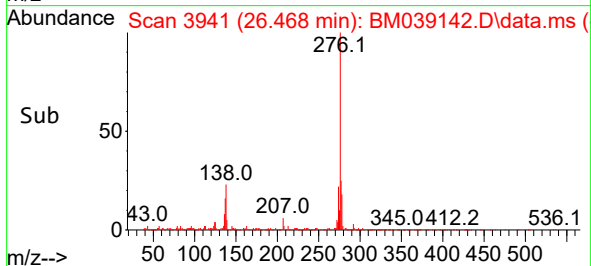
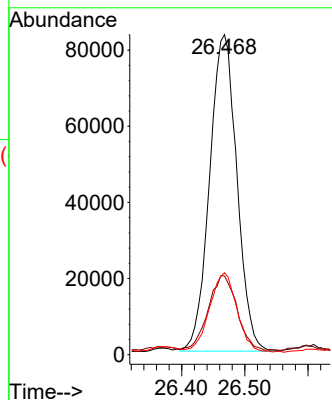
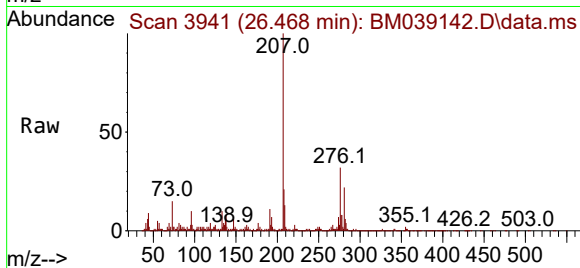
Tgt Ion:276 Resp: 249517

Ion Ratio Lower Upper

276 100

138 25.3 22.1 33.1

277 25.5 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 9.459 ng

RT: 23.209 min Scan# 3387

Delta R.T. -0.006 min

Lab File: BM039142.D

Acq: 24 Mar 2023 15:17

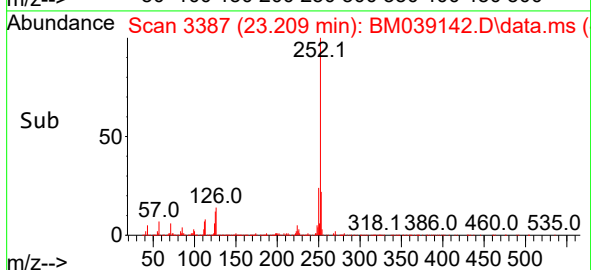
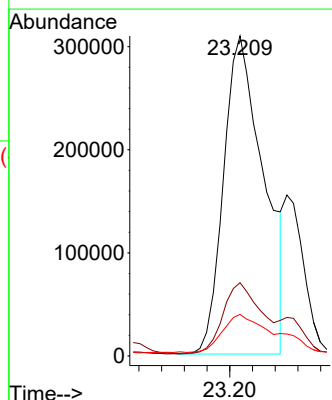
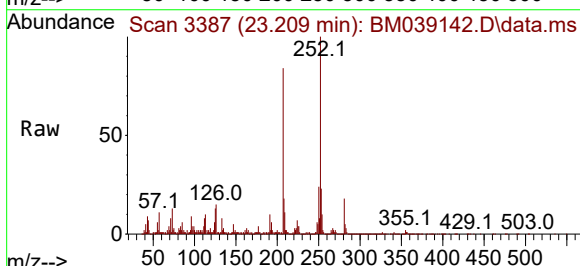
Tgt Ion:252 Resp: 756769

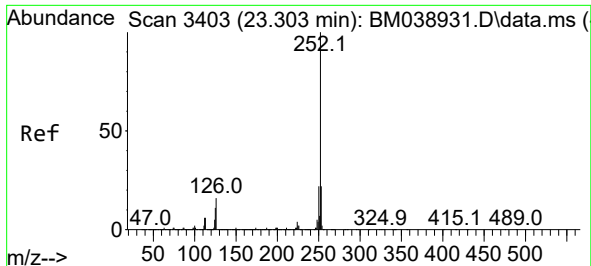
Ion Ratio Lower Upper

252 100

253 22.9 17.6 26.4

125 13.0 8.8 13.2

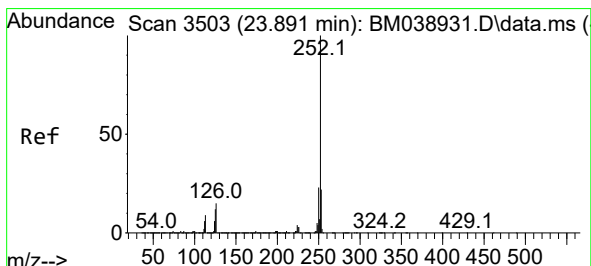
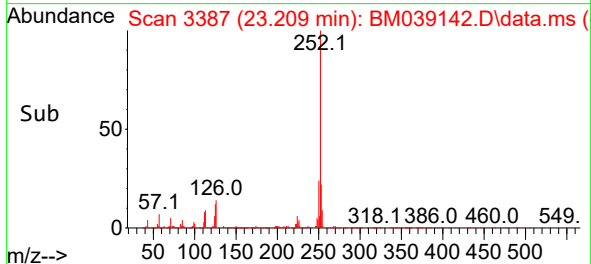
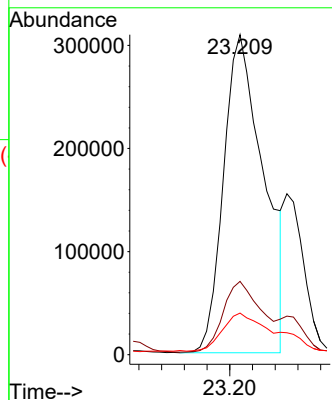
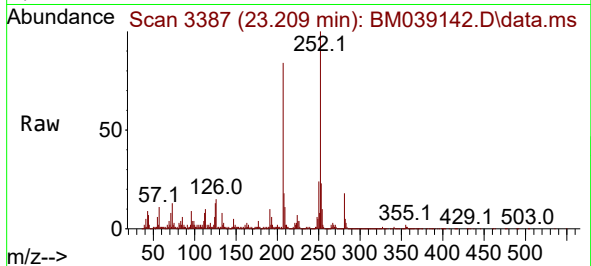




#89
Benzo(k)fluoranthene
Concen: 9.089 ng
RT: 23.209 min Scan# 31
Delta R.T. -0.059 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

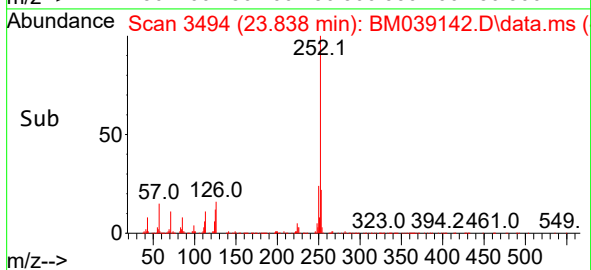
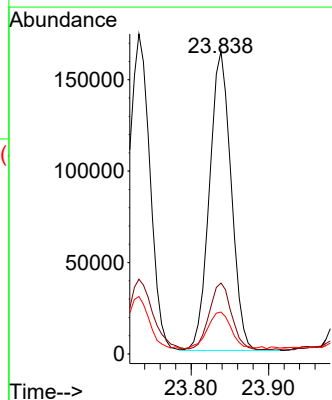
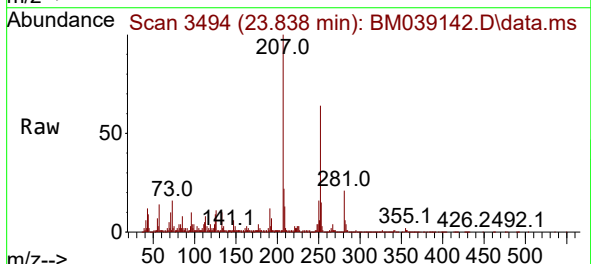
Instrument :
BNA_M
ClientSampleId :
S-2DL2

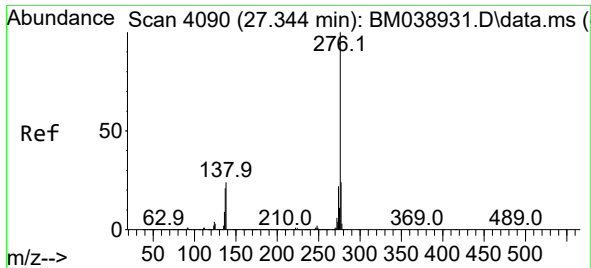
Tgt Ion:252 Resp: 756769
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 13.0 8.9 13.3



#90
Benzo(a)pyrene
Concen: 4.129 ng
RT: 23.838 min Scan# 3494
Delta R.T. -0.012 min
Lab File: BM039142.D
Acq: 24 Mar 2023 15:17

Tgt Ion:252 Resp: 317955
Ion Ratio Lower Upper
252 100
253 23.4 17.6 26.4
125 13.9 9.8 14.8





#92
 Benzo(g,h,i)perylene
 Concen: 2.849 ng
 RT: 27.244 min Scan# 4073
 Delta R.T. -0.029 min
 Lab File: BM039142.D
 Acq: 24 Mar 2023 15:17

Instrument :
 BNA_M
 ClientSampleId :
 S-2DL2

Tgt Ion:	276	Resp:	224913
Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.3	28.9
138	25.3	19.0	28.6

