

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081023\
 Data File : BM041375.D
 Acq On : 10 Aug 2023 22:45
 Operator : MA/JU
 Sample : 03952-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OK-1-080923

Quant Time: Aug 11 03:37:20 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 09 12:20:12 2023
 Response via : Initial Calibration

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

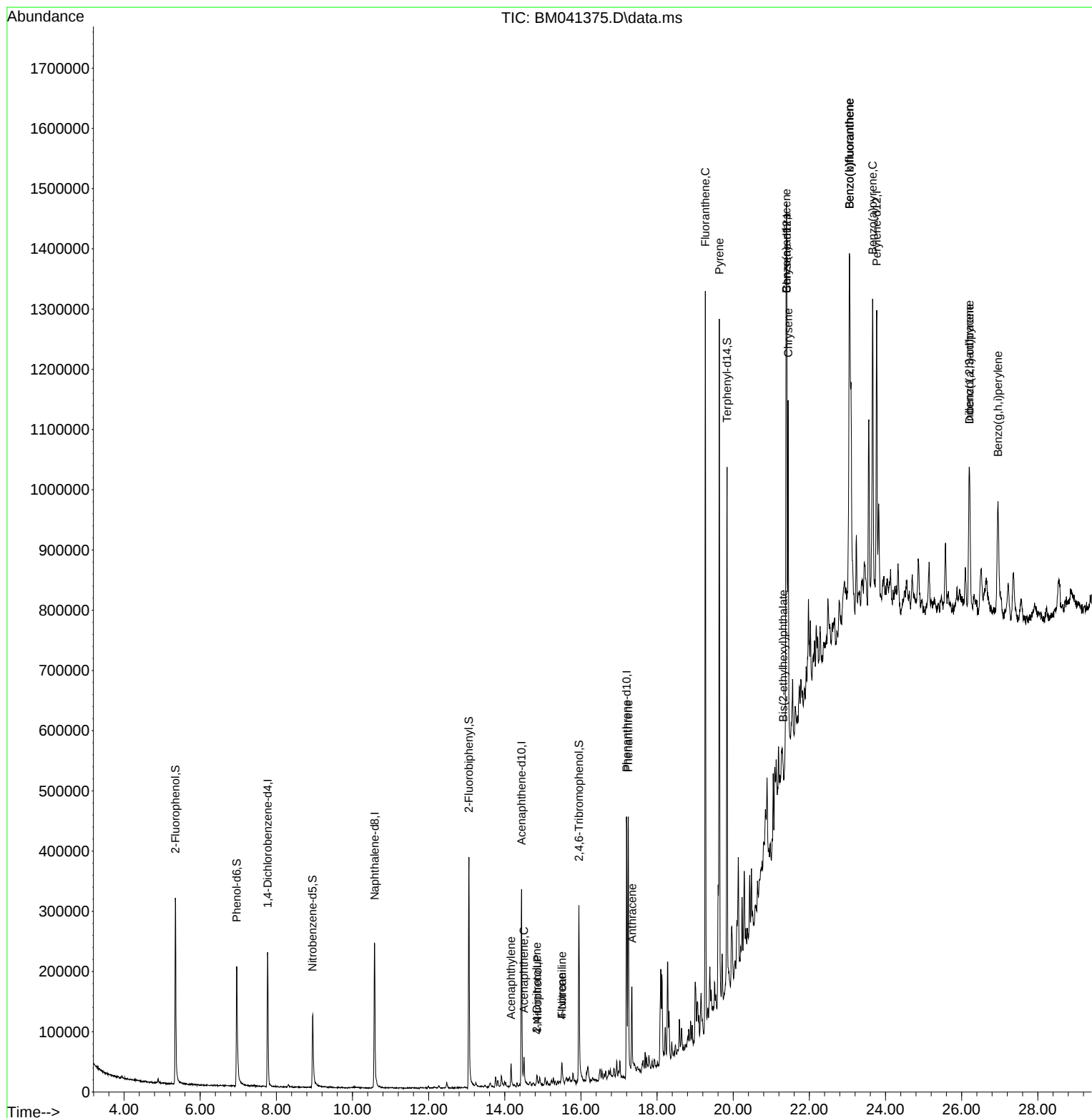
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	62371	20.000	ng	0.00
21) Naphthalene-d8	10.581	136	223474	20.000	ng	0.00
39) Acenaphthene-d10	14.439	164	124686	20.000	ng	0.00
64) Phenanthrene-d10	17.198	188	271366	20.000	ng	-0.01
76) Chrysene-d12	21.403	240	292413	20.000	ng	-0.01
86) Perylene-d12	23.768	264	360846	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.346	112	147267	35.289	ng	-0.01
7) Phenol-d6	6.957	99	151349	27.979	ng	-0.01
23) Nitrobenzene-d5	8.951	82	97442	20.278	ng	0.00
42) 2,4,6-Tribromophenol	15.945	330	62825	35.623	ng	0.00
45) 2-Fluorobiphenyl	13.057	172	229160	23.217	ng	0.00
79) Terphenyl-d14	19.839	244	410189	25.363	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	14.163	152	31713	2.603	ng	96
52) Acenaphthene	14.504	154	14851	2.024	ng	97
56) 4-Nitrophenol	14.857	139	3426	2.115	ng	# 1
57) 2,4-Dinitrotoluene	14.839	165	222	2.746	ng	# 10
58) Fluorene	15.498	166	19628	2.078	ng	98
62) 4-Nitroaniline	15.504	138	127	4.204	ng	# 13
71) Phenanthrene	17.245	178	258722	17.160	ng	98
72) Anthracene	17.339	178	103677	6.953	ng	99
75) Fluoranthene	19.268	202	686688	40.539	ng	99
78) Pyrene	19.633	202	650949	31.833	ng	100
81) Benzo(a)anthracene	21.392	228	387079	19.527	ng	99
83) Chrysene	21.445	228	348616	18.182	ng	98
84) Bis(2-ethylhexyl)phtha...	21.315	149	3620	2.828	ng	# 91
87) Indeno(1,2,3-cd)pyrene	26.203	276	244030	9.198	ng	# 91
88) Benzo(b)fluoranthene	23.050	252	475379	22.176	ng	98
89) Benzo(k)fluoranthene	23.050	252	475379	21.680	ng	97
90) Benzo(a)pyrene	23.662	252	367652	17.849	ng	97
91) Dibenzo(a,h)anthracene	26.203	278	69625	3.146	ng	# 77
92) Benzo(g,h,i)perylene	26.956	276	237675	10.977	ng	96

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

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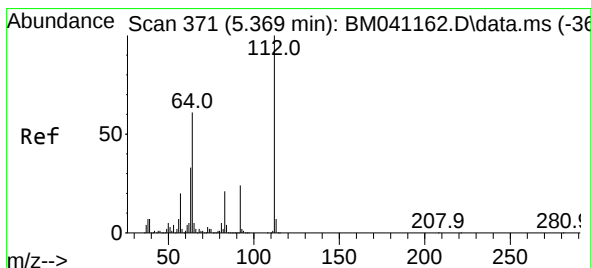
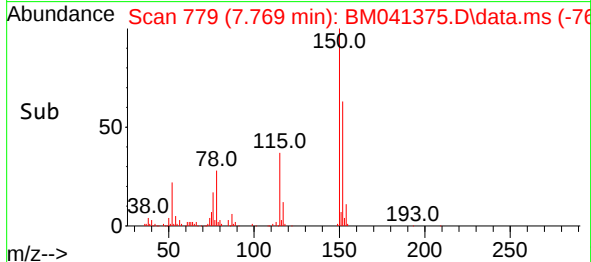
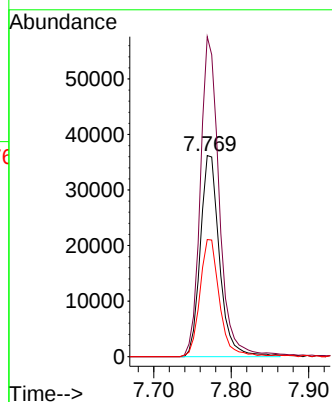
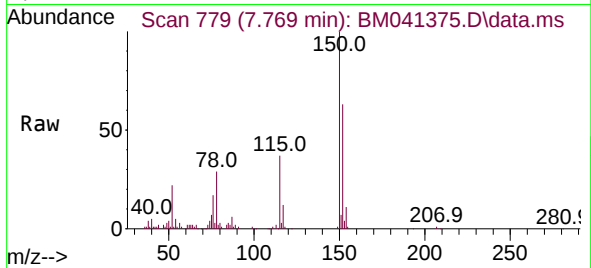




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 71
Delta R.T. -0.006 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

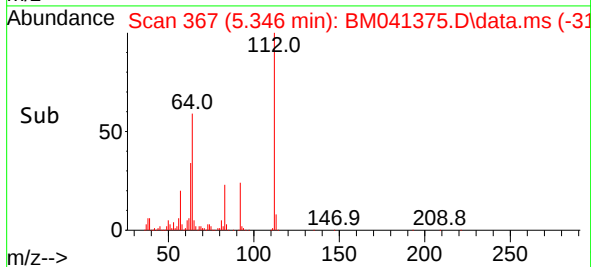
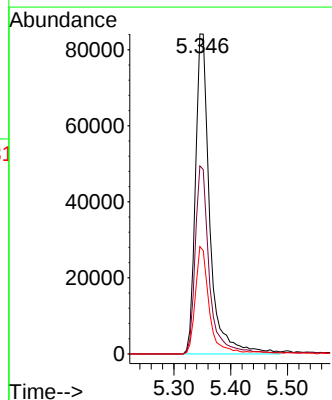
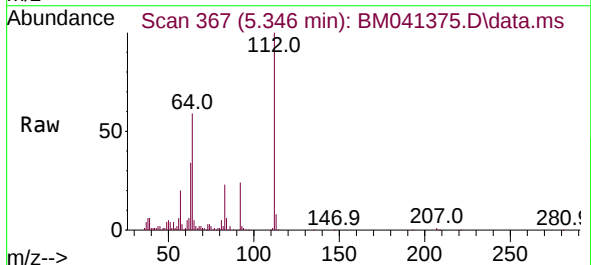
Instrument :
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ClientSampleId :
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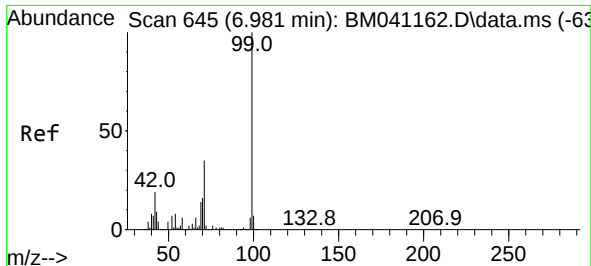
Tgt Ion:152 Resp: 62371
Ion Ratio Lower Upper
152 100
150 159.1 125.5 188.3
115 58.2 48.0 72.0



#5
2-Fluorophenol
Concen: 35.289 ng
RT: 5.346 min Scan# 367
Delta R.T. -0.012 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

Tgt Ion:112 Resp: 147267
Ion Ratio Lower Upper
112 100
64 58.7 48.5 72.7
63 33.5 26.5 39.7

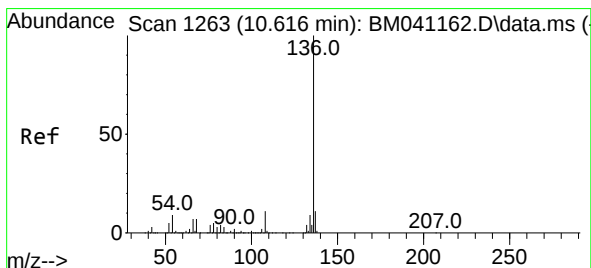
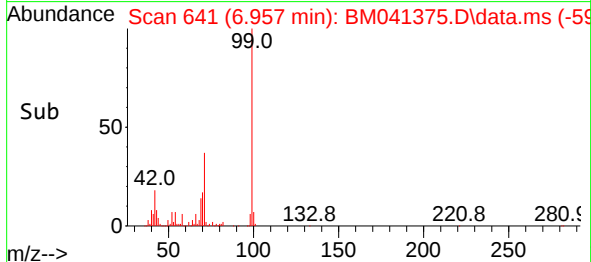
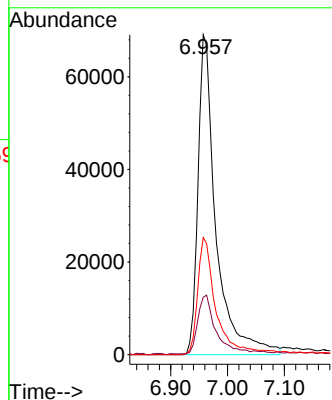
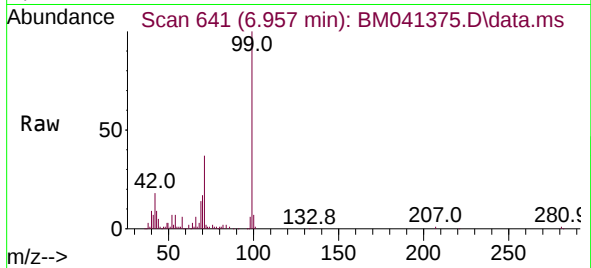




#7
Phenol-d6
Concen: 27.979 ng
RT: 6.957 min Scan# 645
Delta R.T. -0.012 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

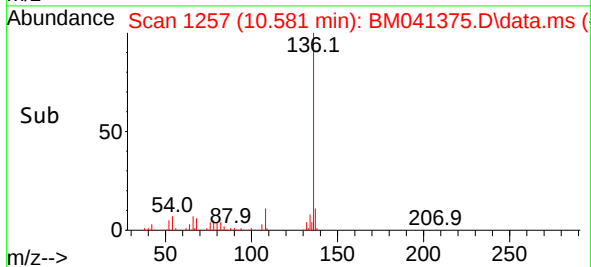
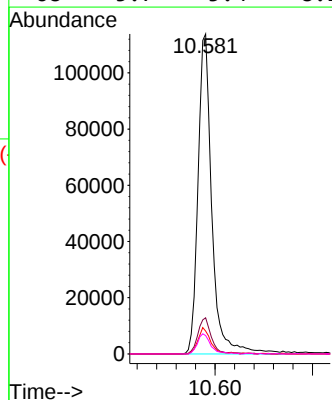
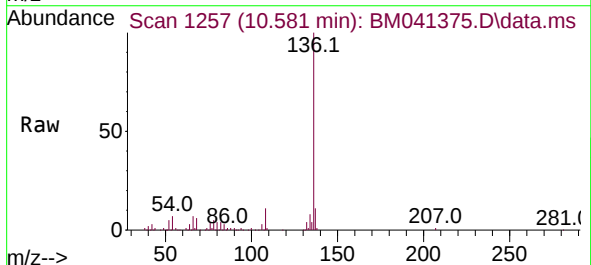
Instrument :
BNA_M
ClientSampleId :
OK-1-080923

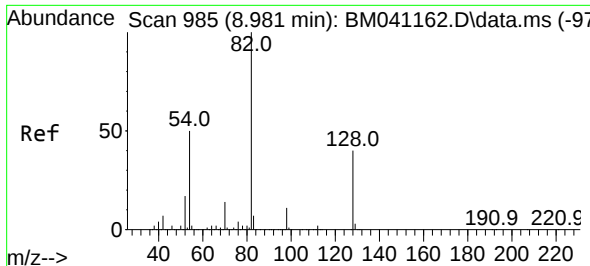
Tgt Ion: 99 Resp: 151349
Ion Ratio Lower Upper
99 100
42 17.9 15.4 23.0
71 36.6 28.2 42.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.581 min Scan# 1257
Delta R.T. -0.006 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

Tgt Ion: 136 Resp: 223474
Ion Ratio Lower Upper
136 100
137 11.3 8.8 13.2
54 7.1 6.9 10.3
68 5.7 5.4 8.2

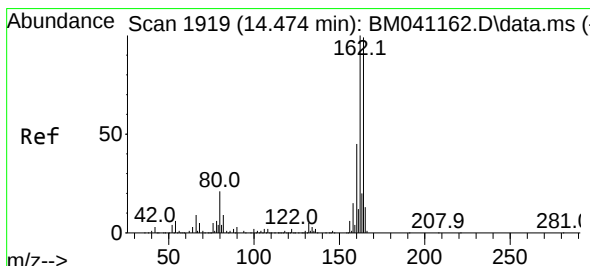
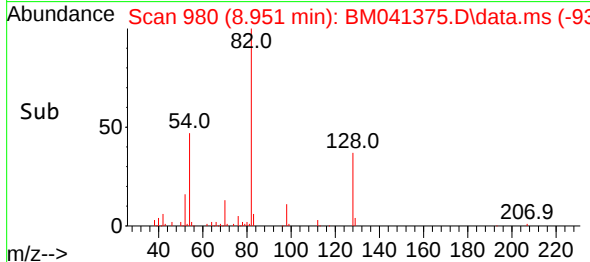
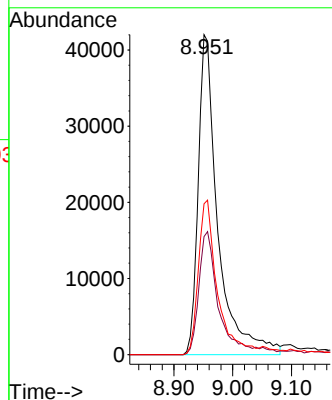
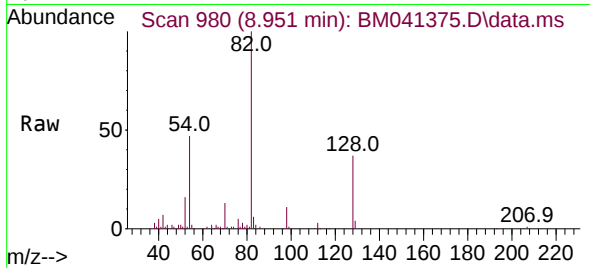




#23
Nitrobenzene-d5
Concen: 20.278 ng
RT: 8.951 min Scan# 985
Delta R.T. -0.006 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

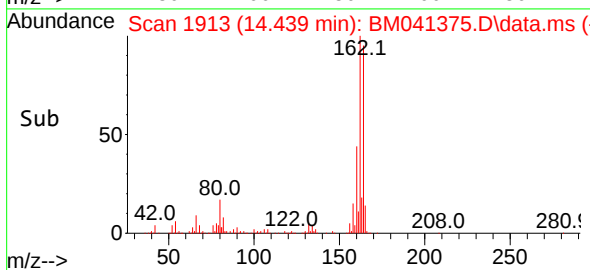
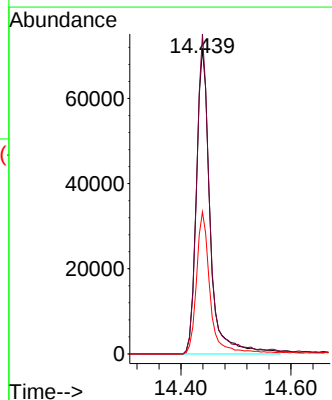
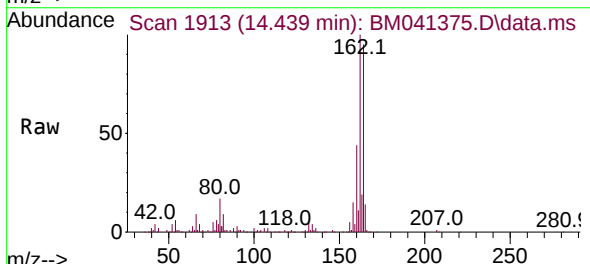
Instrument :
BNA_M
ClientSampleId :
OK-1-080923

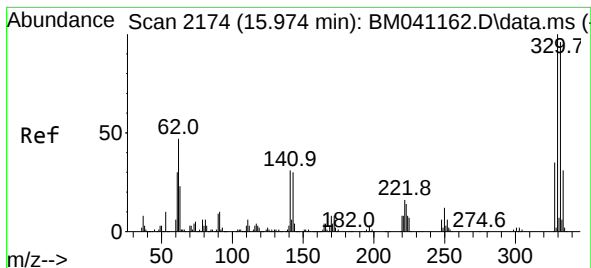
Tgt Ion: 82 Resp: 97442
Ion Ratio Lower Upper
82 100
128 36.9 31.8 47.6
54 47.1 40.1 60.1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.439 min Scan# 1913
Delta R.T. -0.006 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

Tgt Ion: 164 Resp: 124686
Ion Ratio Lower Upper
164 100
162 104.9 80.4 120.6
160 46.6 36.2 54.2

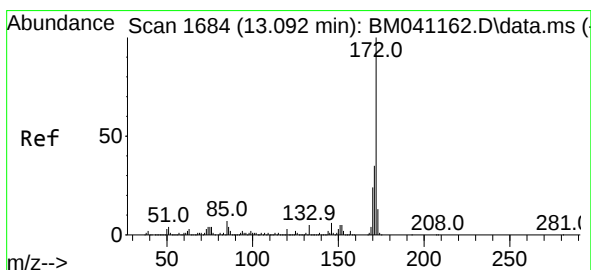
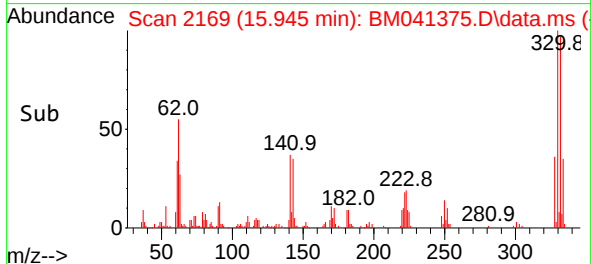
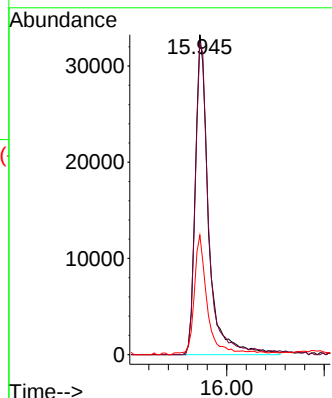
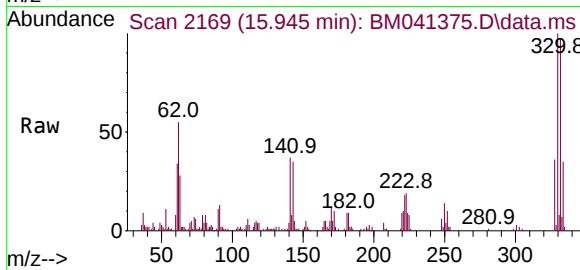




#42
2,4,6-Tribromophenol
Concen: 35.623 ng
RT: 15.945 min Scan# 2174
Delta R.T. -0.006 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

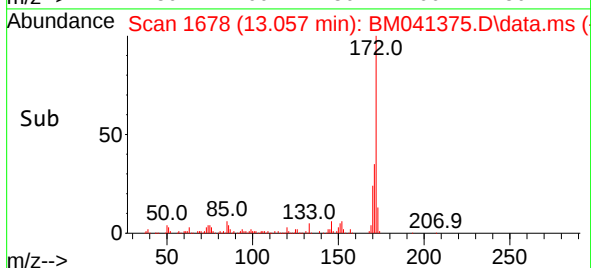
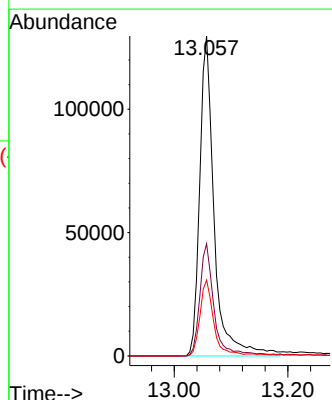
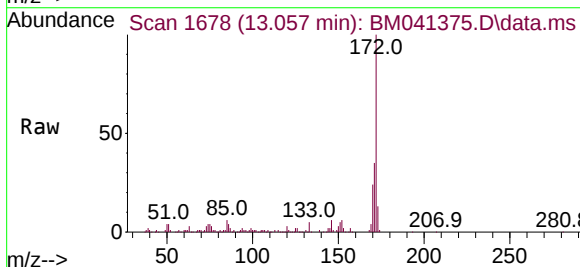
Instrument :
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ClientSampleId :
OK-1-080923

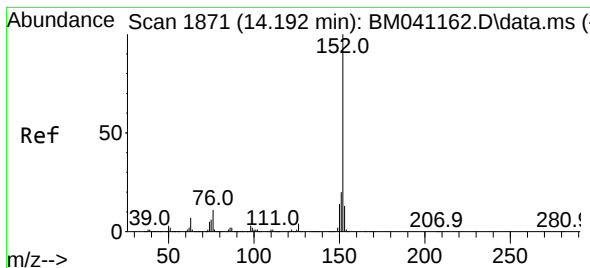
Tgt Ion:330 Resp: 62825
Ion Ratio Lower Upper
330 100
332 96.4 77.7 116.5
141 35.8 28.3 42.5



#45
2-Fluorobiphenyl
Concen: 23.217 ng
RT: 13.057 min Scan# 1678
Delta R.T. -0.006 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

Tgt Ion:172 Resp: 229160
Ion Ratio Lower Upper
172 100
171 35.0 28.1 42.1
170 23.7 18.9 28.3





#49

Acenaphthylene

Concen: 2.603 ng

RT: 14.163 min Scan# 1866

Delta R.T. -0.006 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

Instrument :

BNA_M

ClientSampleId :

OK-1-080923

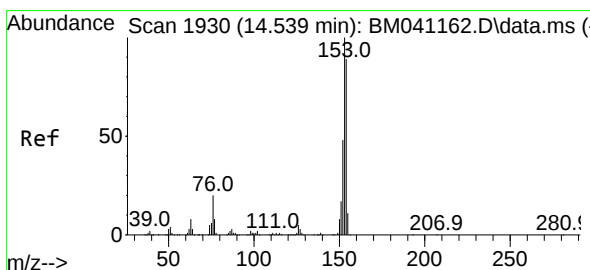
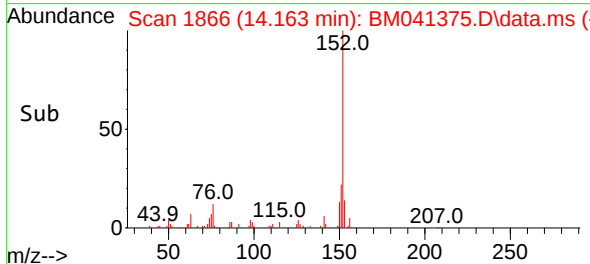
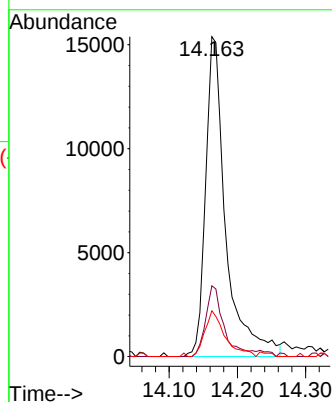
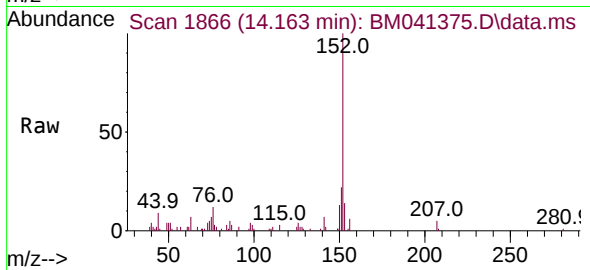
Tgt Ion:152 Resp: 31713

Ion Ratio Lower Upper

152 100

151 22.1 16.1 24.1

153 14.3 10.5 15.7



#52

Acenaphthene

Concen: 2.024 ng

RT: 14.504 min Scan# 1924

Delta R.T. -0.006 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

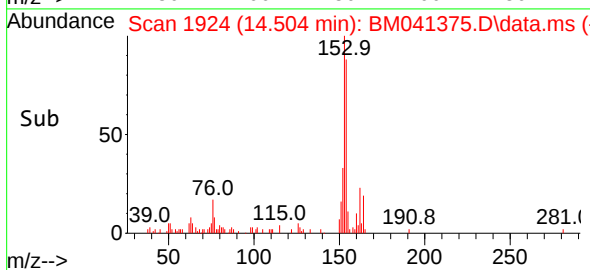
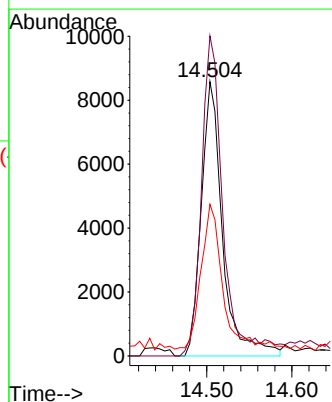
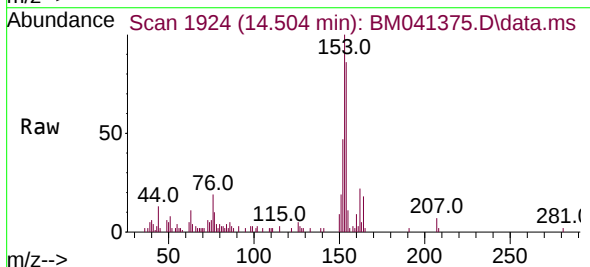
Tgt Ion:154 Resp: 14851

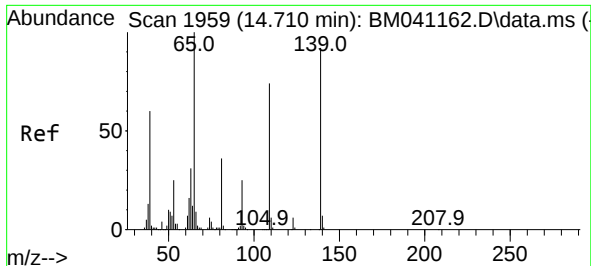
Ion Ratio Lower Upper

154 100

153 116.7 90.2 135.4

152 55.3 43.4 65.0

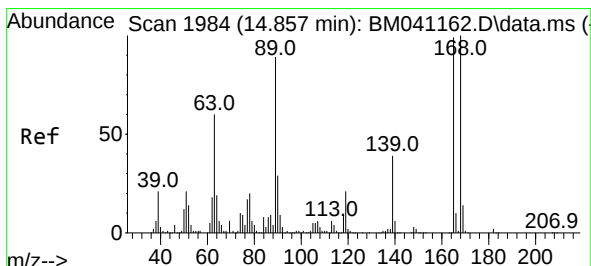
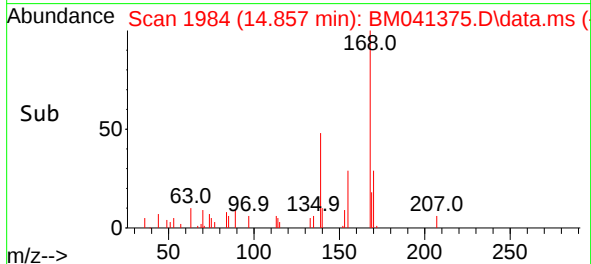
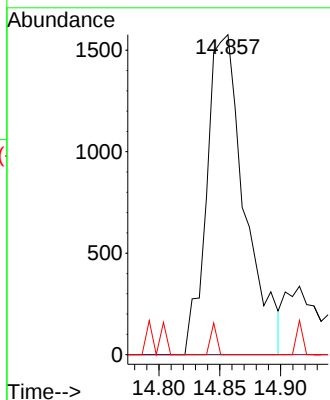
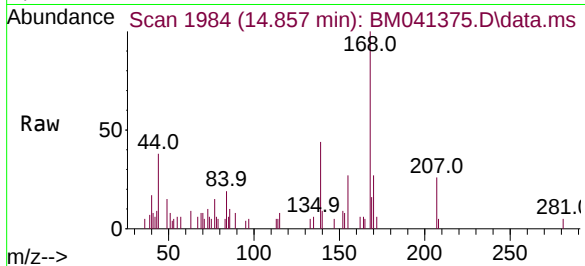




#56
4-Nitrophenol
Concen: 2.115 ng
RT: 14.857 min Scan# 1959
Delta R.T. 0.141 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

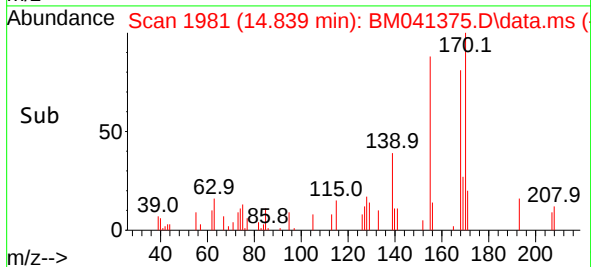
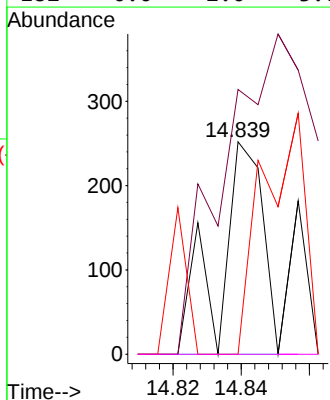
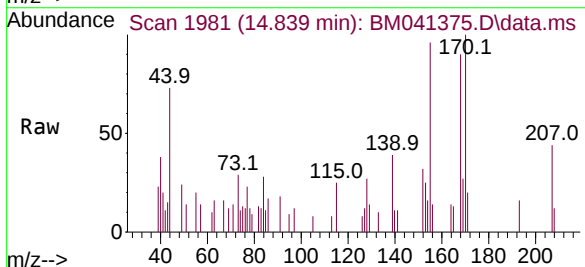
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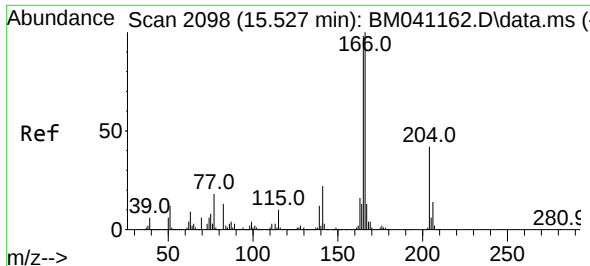
Tgt Ion:139 Resp: 3426
Ion Ratio Lower Upper
139 100
109 0.0 61.2 101.2#
65 0.0 89.5 129.5#



#57
2,4-Dinitrotoluene
Concen: 2.746 ng
RT: 14.839 min Scan# 1981
Delta R.T. -0.006 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

Tgt Ion:165 Resp: 222
Ion Ratio Lower Upper
165 100
63 124.6 48.3 72.5#
89 0.0 71.8 107.8#
182 0.0 2.0 3.0#

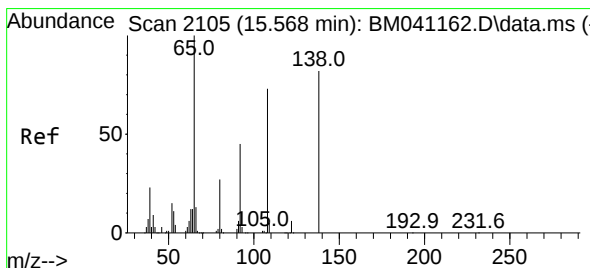
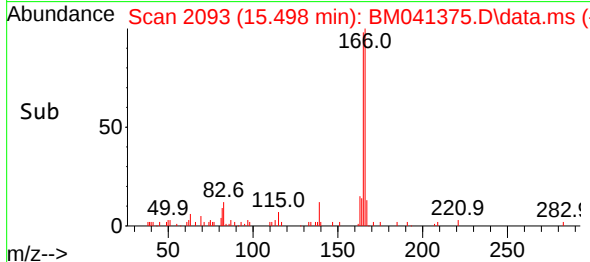
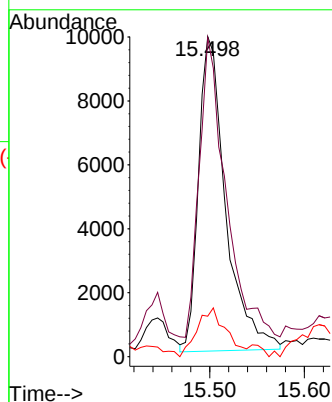
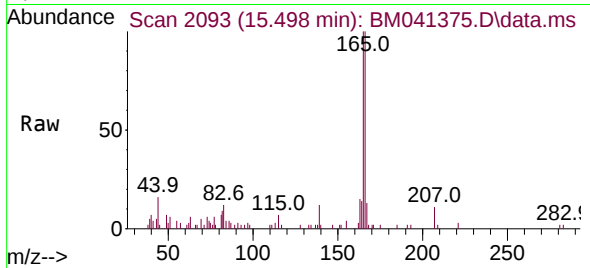




#58
 Fluorene
 Concen: 2.078 ng
 RT: 15.498 min Scan# 2098
 Delta R.T. -0.000 min
 Lab File: BM041375.D
 Acq: 10 Aug 2023 22:45

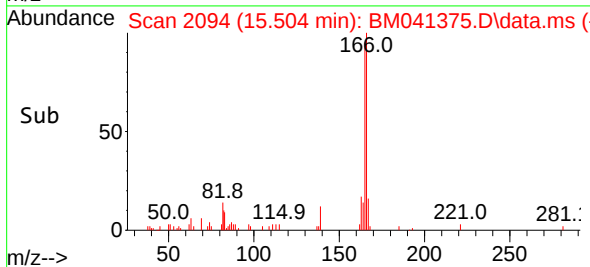
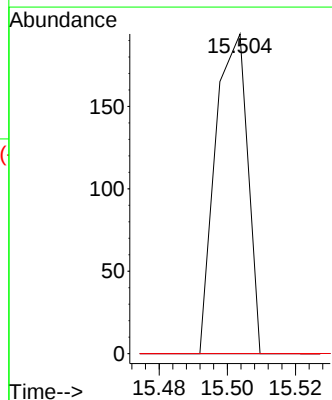
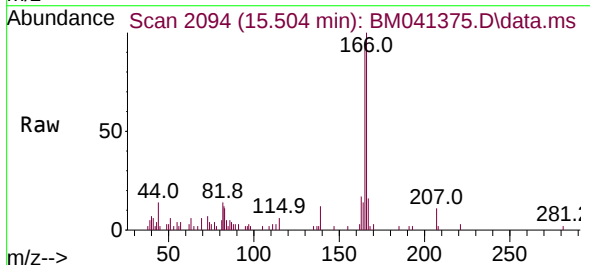
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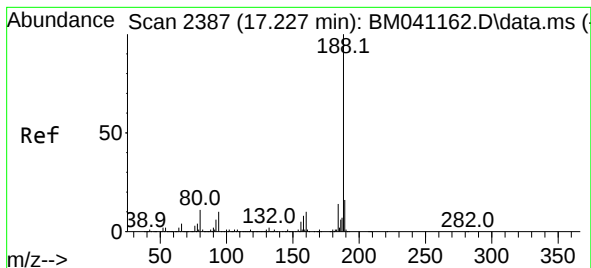
Tgt Ion:166 Resp: 19628
 Ion Ratio Lower Upper
 166 100
 165 99.6 78.2 117.4
 167 12.6 10.6 16.0



#62
 4-Nitroaniline
 Concen: 4.204 ng
 RT: 15.504 min Scan# 2094
 Delta R.T. -0.047 min
 Lab File: BM041375.D
 Acq: 10 Aug 2023 22:45

Tgt Ion:138 Resp: 127
 Ion Ratio Lower Upper
 138 100
 92 0.0 35.1 75.1#
 108 0.0 67.8 107.8#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.198 min Scan# 2382

Delta R.T. -0.012 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

Instrument :

BNA_M

ClientSampleId :

OK-1-080923

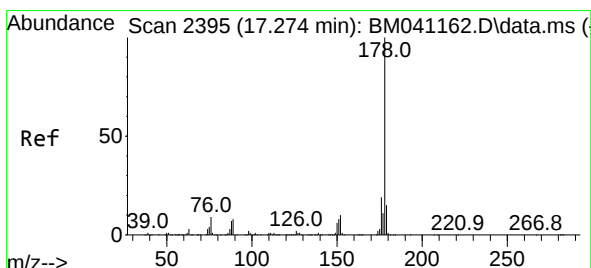
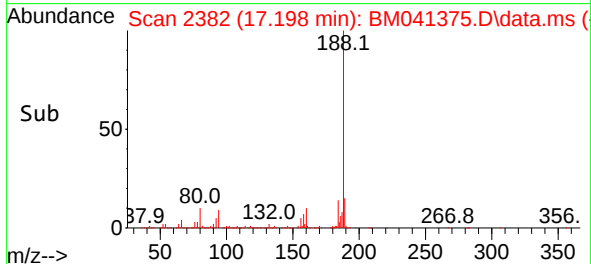
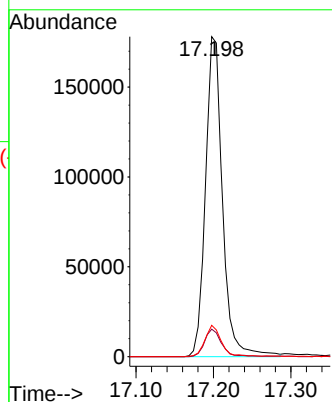
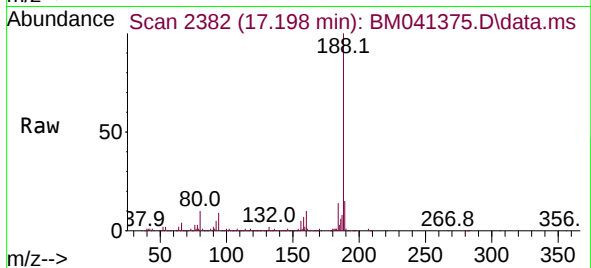
Tgt Ion:188 Resp: 271366

Ion Ratio Lower Upper

188 100

94 8.6 8.2 12.2

80 9.8 8.6 13.0



#71

Phenanthrene

Concen: 17.160 ng

RT: 17.245 min Scan# 2390

Delta R.T. -0.006 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

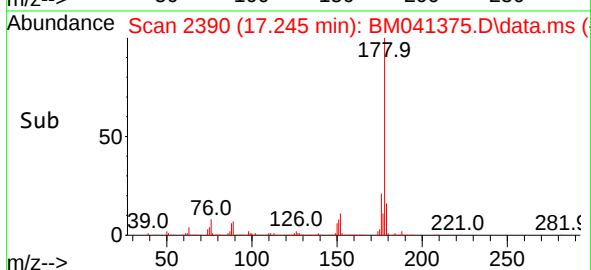
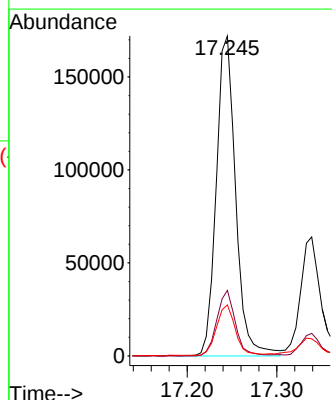
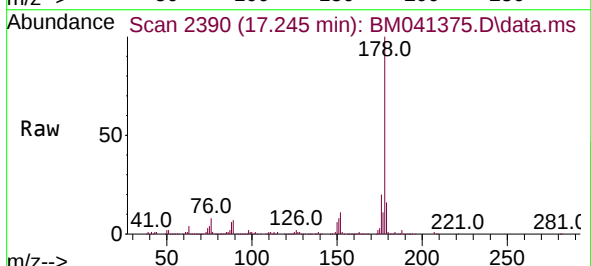
Tgt Ion:178 Resp: 258722

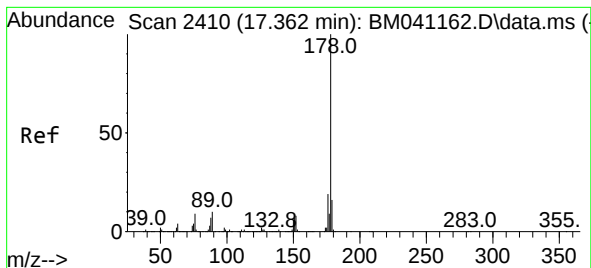
Ion Ratio Lower Upper

178 100

176 20.5 15.6 23.4

179 15.9 12.1 18.1





#72

Anthracene

Concen: 6.953 ng

RT: 17.339 min Scan# 2410

Delta R.T. -0.006 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

Instrument :

BNA_M

ClientSampleId :

OK-1-080923

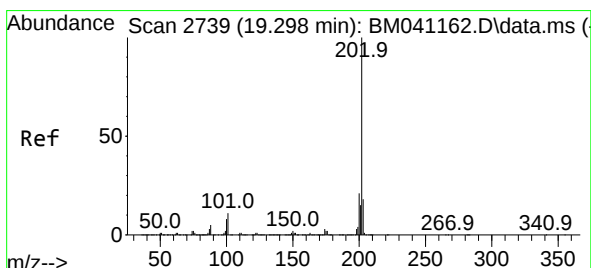
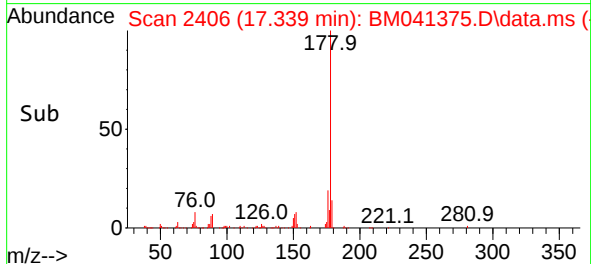
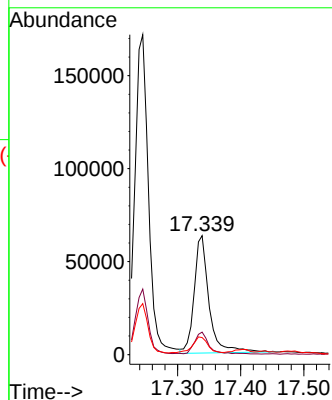
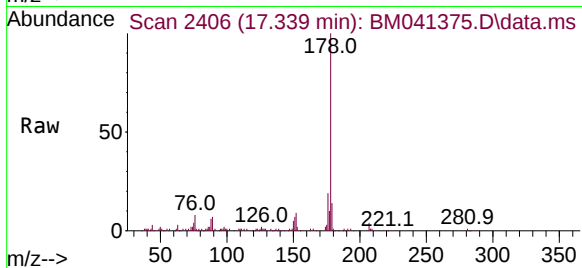
Tgt Ion:178 Resp: 103677

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

179 14.3 12.4 18.6



#75

Fluoranthene

Concen: 40.539 ng

RT: 19.268 min Scan# 2734

Delta R.T. -0.012 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

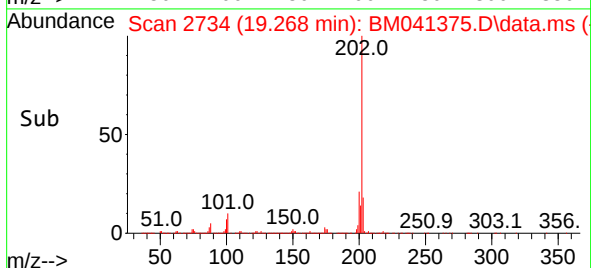
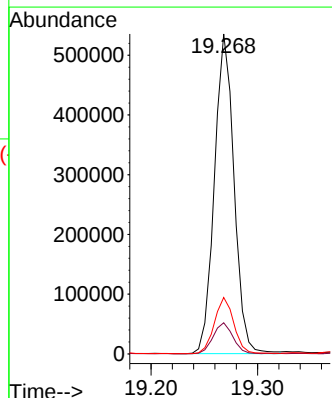
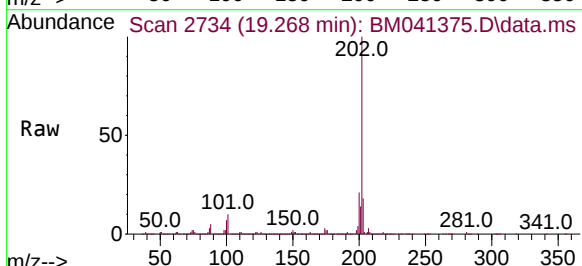
Tgt Ion:202 Resp: 686688

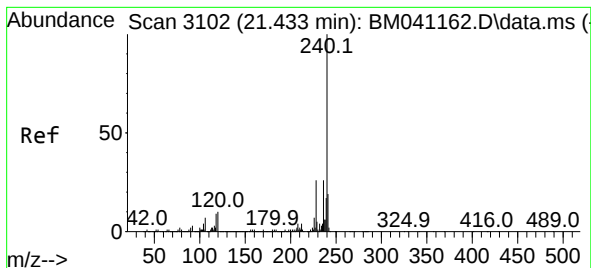
Ion Ratio Lower Upper

202 100

101 9.7 0.0 30.8

203 17.6 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.403 min Scan# 30

Delta R.T. -0.012 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

Instrument :

BNA_M

ClientSampleId :

OK-1-080923

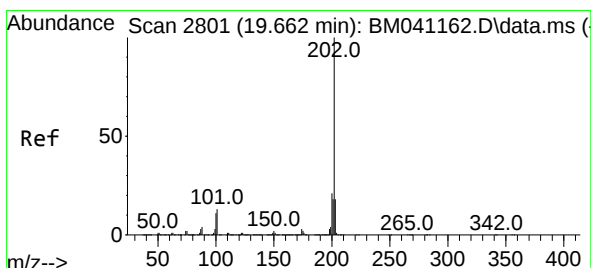
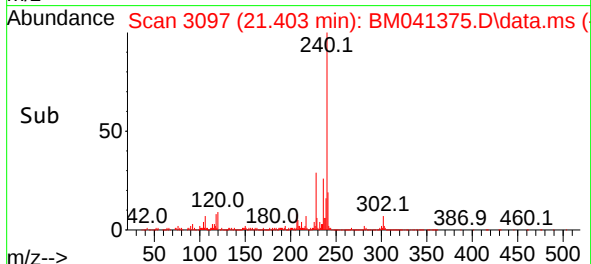
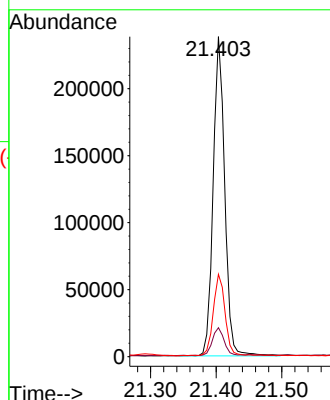
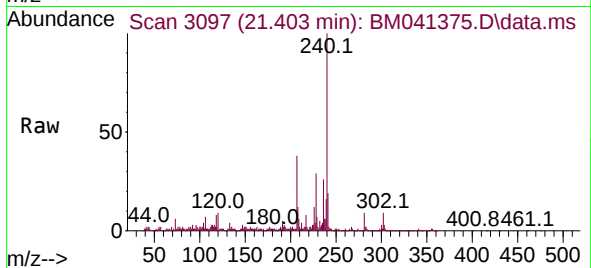
Tgt Ion:240 Resp: 292413

Ion Ratio Lower Upper

240 100

120 9.0 8.3 12.5

236 25.7 20.6 30.8



#78

Pyrene

Concen: 31.833 ng

RT: 19.633 min Scan# 2796

Delta R.T. -0.012 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

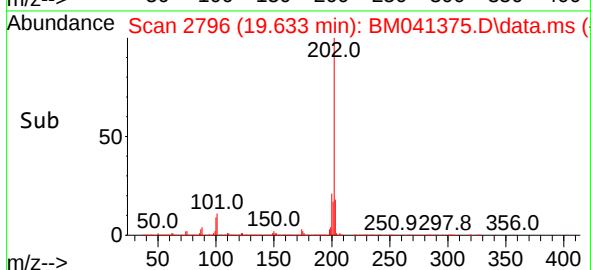
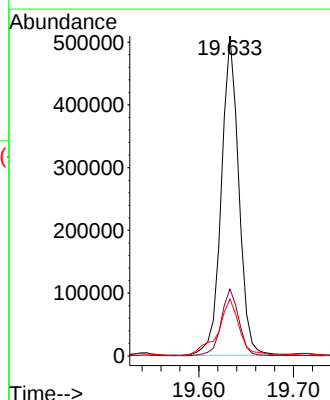
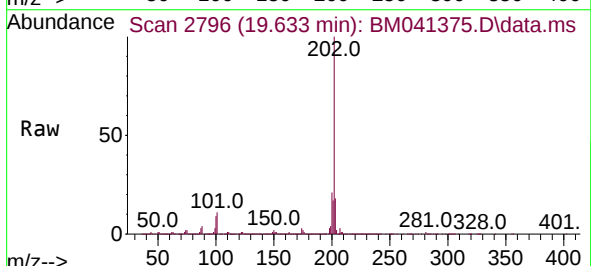
Tgt Ion:202 Resp: 650949

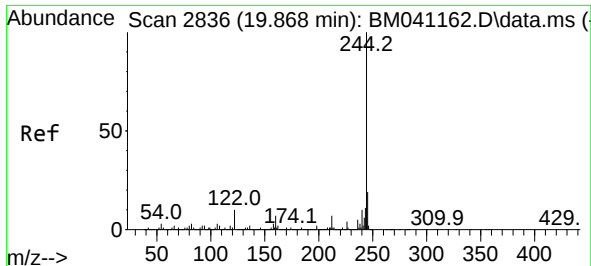
Ion Ratio Lower Upper

202 100

200 20.9 16.9 25.3

203 17.7 14.1 21.1

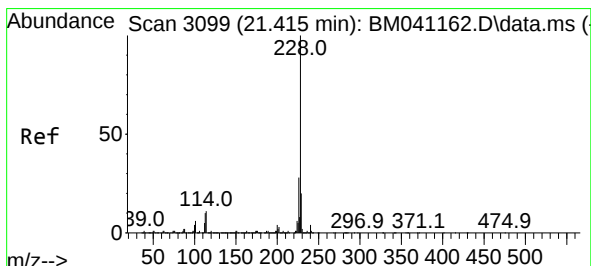
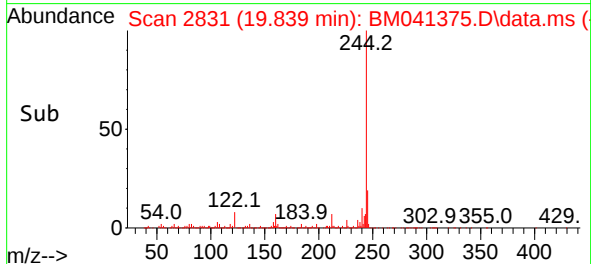
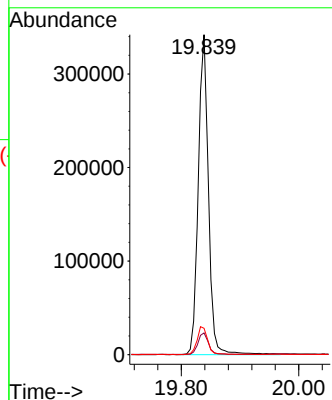
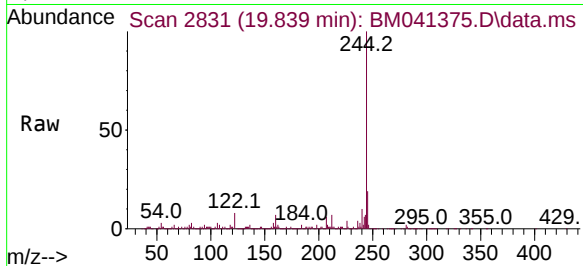




#79
 Terphenyl-d14
 Concen: 25.363 ng
 RT: 19.839 min Scan# 2831
 Delta R.T. -0.012 min
 Lab File: BM041375.D
 Acq: 10 Aug 2023 22:45

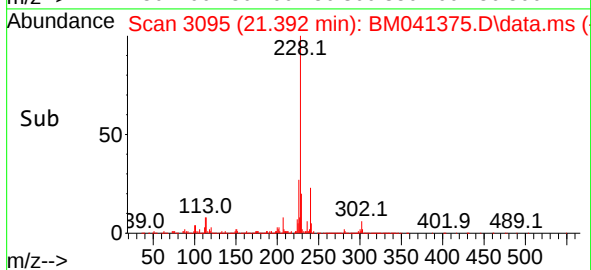
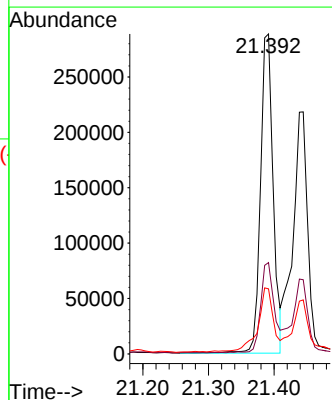
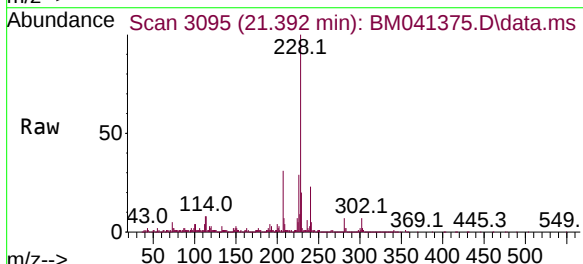
Instrument :
 BNA_M
 ClientSampleId :
 OK-1-080923

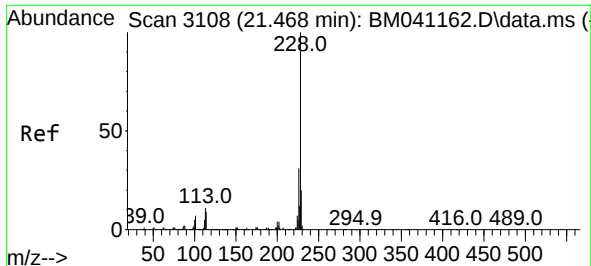
Tgt Ion:244 Resp: 410189
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.2
 122 8.2 7.8 11.6



#81
 Benzo(a)anthracene
 Concen: 19.527 ng
 RT: 21.392 min Scan# 3095
 Delta R.T. -0.012 min
 Lab File: BM041375.D
 Acq: 10 Aug 2023 22:45

Tgt Ion:228 Resp: 387079
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.4 33.6
 229 20.4 15.8 23.8

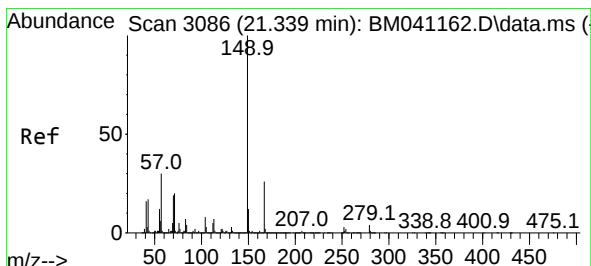
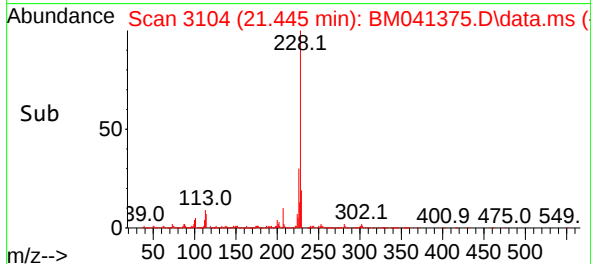
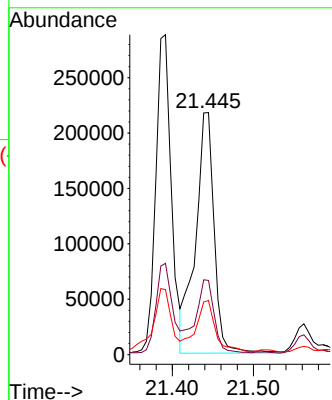
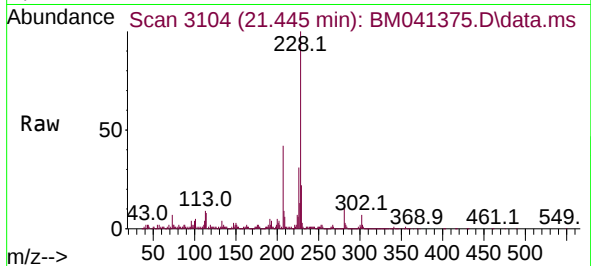




#83
Chrysene
Concen: 18.182 ng
RT: 21.445 min Scan# 3104
Delta R.T. -0.012 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

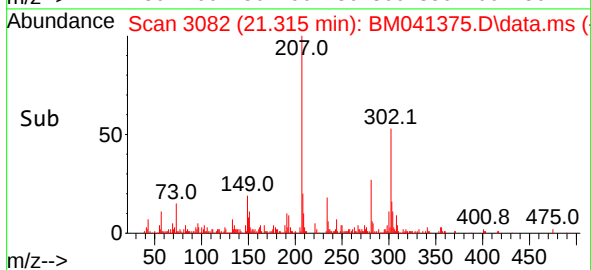
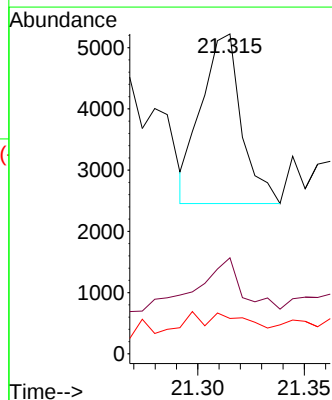
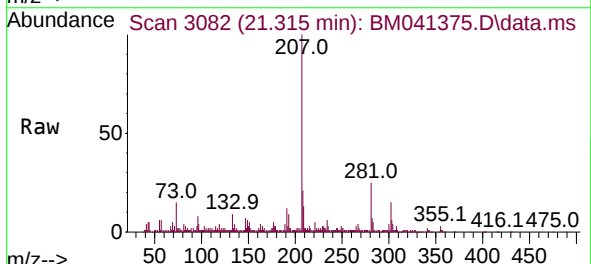
Instrument :
BNA_M
ClientSampleId :
OK-1-080923

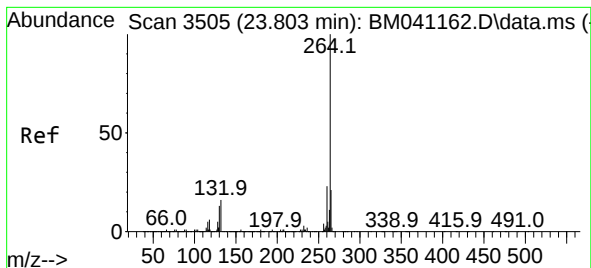
Tgt Ion:228 Resp: 348616
Ion Ratio Lower Upper
228 100
226 30.6 24.5 36.7
229 22.3 15.8 23.8



#84
Bis(2-ethylhexyl)phthalate
Concen: 2.828 ng
RT: 21.315 min Scan# 3082
Delta R.T. -0.006 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

Tgt Ion:149 Resp: 3620
Ion Ratio Lower Upper
149 100
167 30.0 21.0 31.6
279 11.1 3.1 4.7#





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.768 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

Instrument :

BNA_M

ClientSampleId :

OK-1-080923

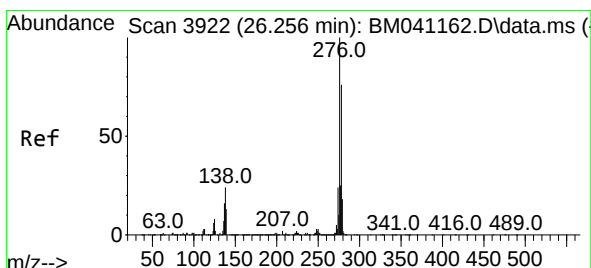
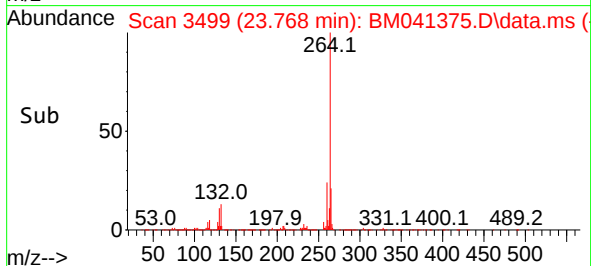
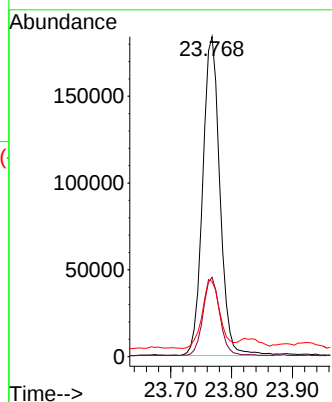
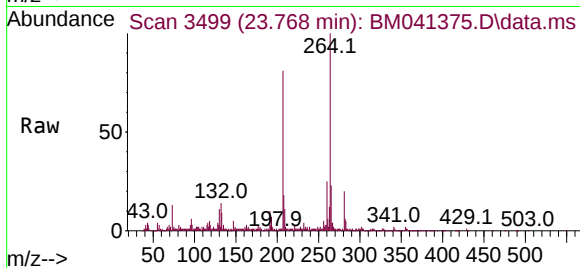
Tgt Ion:264 Resp: 360846

Ion Ratio Lower Upper

264 100

260 24.8 18.5 27.7

265 23.5 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.198 ng

RT: 26.203 min Scan# 3913

Delta R.T. -0.030 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

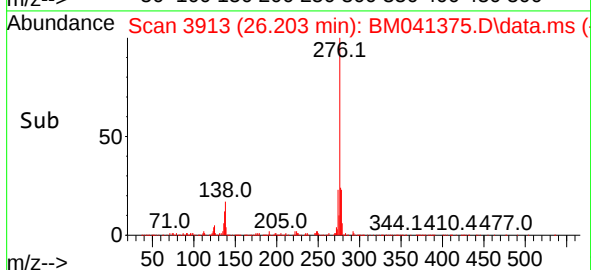
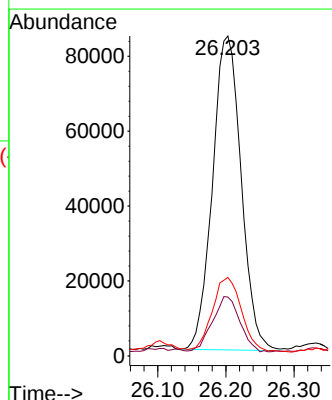
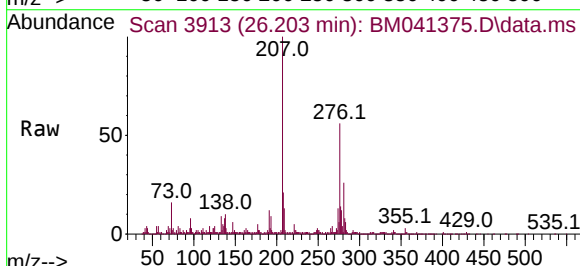
Tgt Ion:276 Resp: 244030

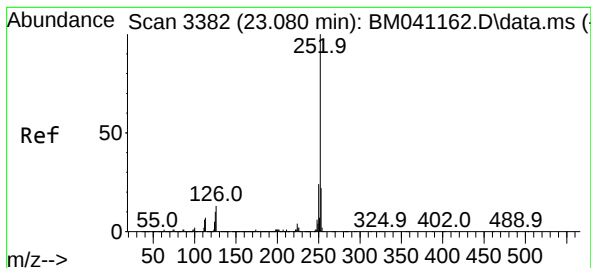
Ion Ratio Lower Upper

276 100

138 16.7 20.0 30.0#

277 24.6 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 22.176 ng

RT: 23.050 min Scan# 3377

Delta R.T. -0.012 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

Instrument :

BNA_M

ClientSampleId :

OK-1-080923

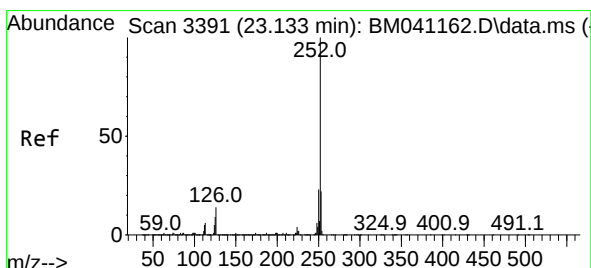
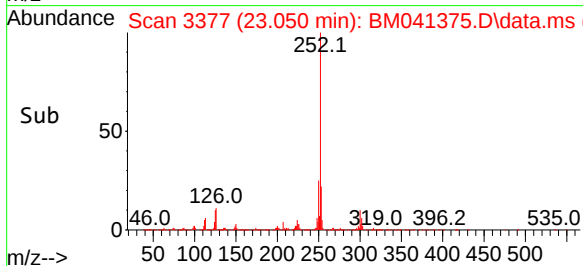
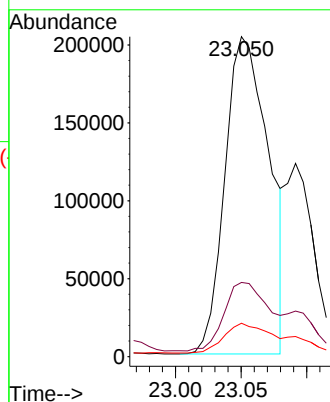
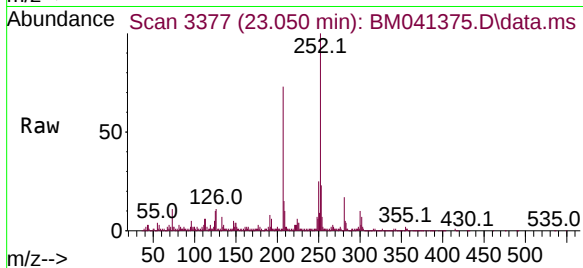
Tgt Ion:252 Resp: 475379

Ion Ratio Lower Upper

252 100

253 23.2 17.7 26.5

125 10.4 8.2 12.4



#89

Benzo(k)fluoranthene

Concen: 21.680 ng

RT: 23.050 min Scan# 3377

Delta R.T. -0.059 min

Lab File: BM041375.D

Acq: 10 Aug 2023 22:45

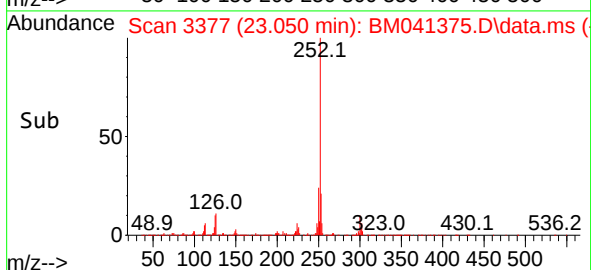
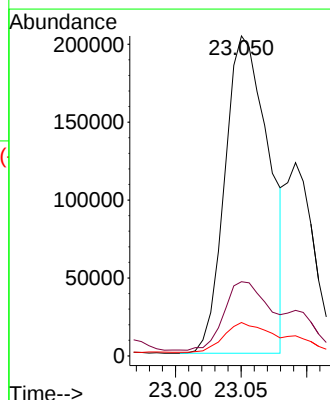
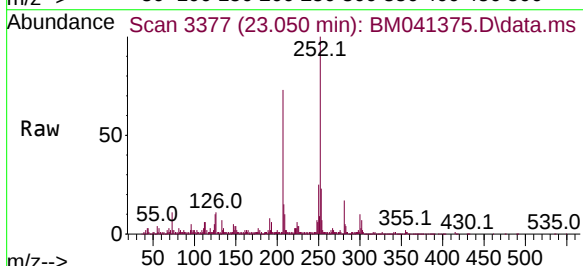
Tgt Ion:252 Resp: 475379

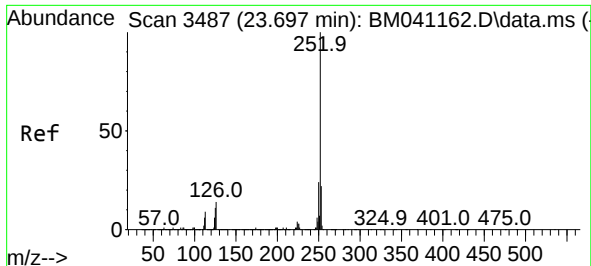
Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

125 10.4 7.6 11.4

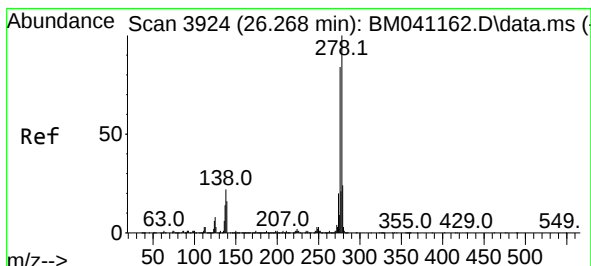
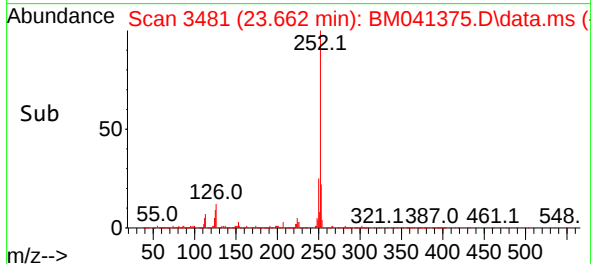
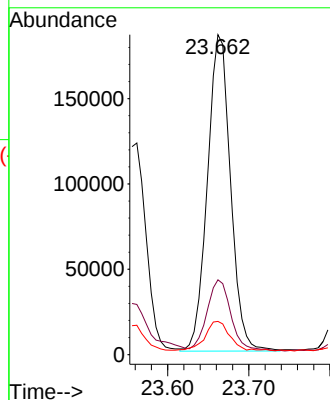
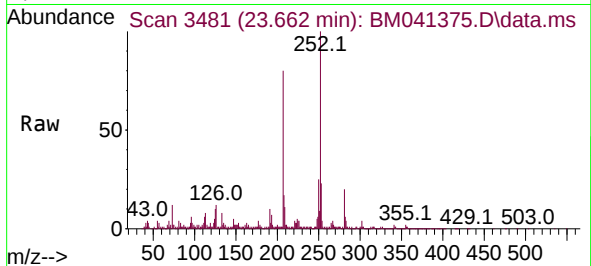




#90
Benzo(a)pyrene
Concen: 17.849 ng
RT: 23.662 min Scan# 34
Delta R.T. -0.018 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

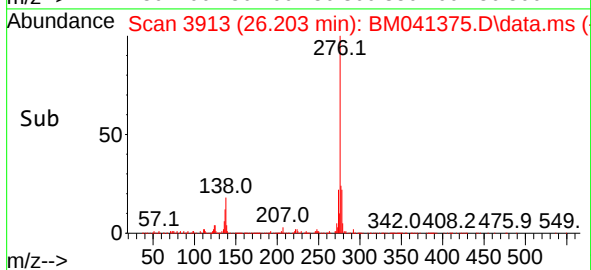
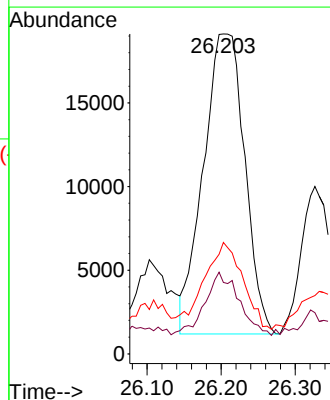
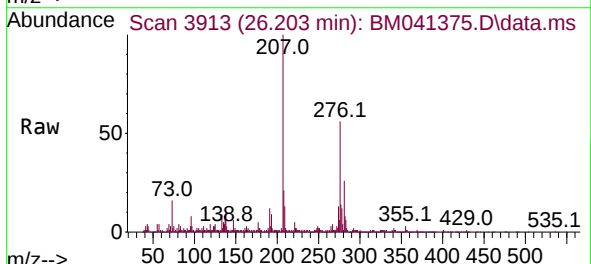
Instrument :
BNA_M
ClientSampleId :
OK-1-080923

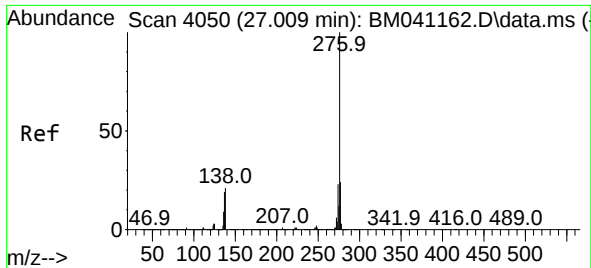
Tgt Ion:252 Resp: 367652
Ion Ratio Lower Upper
252 100
253 23.4 17.3 25.9
125 10.4 9.0 13.4



#91
Dibenzo(a,h)anthracene
Concen: 3.146 ng
RT: 26.203 min Scan# 3913
Delta R.T. -0.041 min
Lab File: BM041375.D
Acq: 10 Aug 2023 22:45

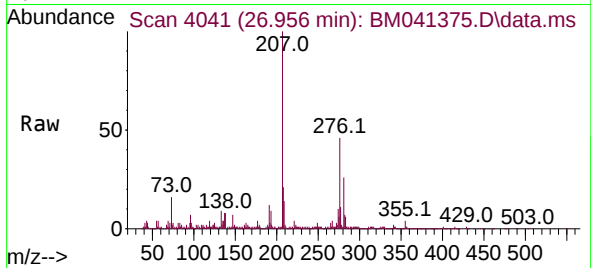
Tgt Ion:278 Resp: 69625
Ion Ratio Lower Upper
278 100
139 26.4 12.7 19.1#
279 34.8 19.1 28.7#





#92
 Benzo(g,h,i)perylene
 Concen: 10.977 ng
 RT: 26.956 min Scan# 40
 Delta R.T. -0.030 min
 Lab File: BM041375.D
 Acq: 10 Aug 2023 22:45

Instrument :
 BNA_M
 ClientSampleId :
 OK-1-080923



Tgt Ion:	276	Resp:	237675
Ion Ratio	Lower	Upper	
276	100		
277	24.3	19.1	28.7
138	18.4	17.1	25.7

