

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092023\
 Data File : BN027774.D
 Acq On : 20 Sep 2023 21:40
 Operator : MA/JU
 Sample : 04367-04 20X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PILE-4

Quant Time: Sep 21 04:23:39 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 20 13:45:42 2023
 Response via : Initial Calibration

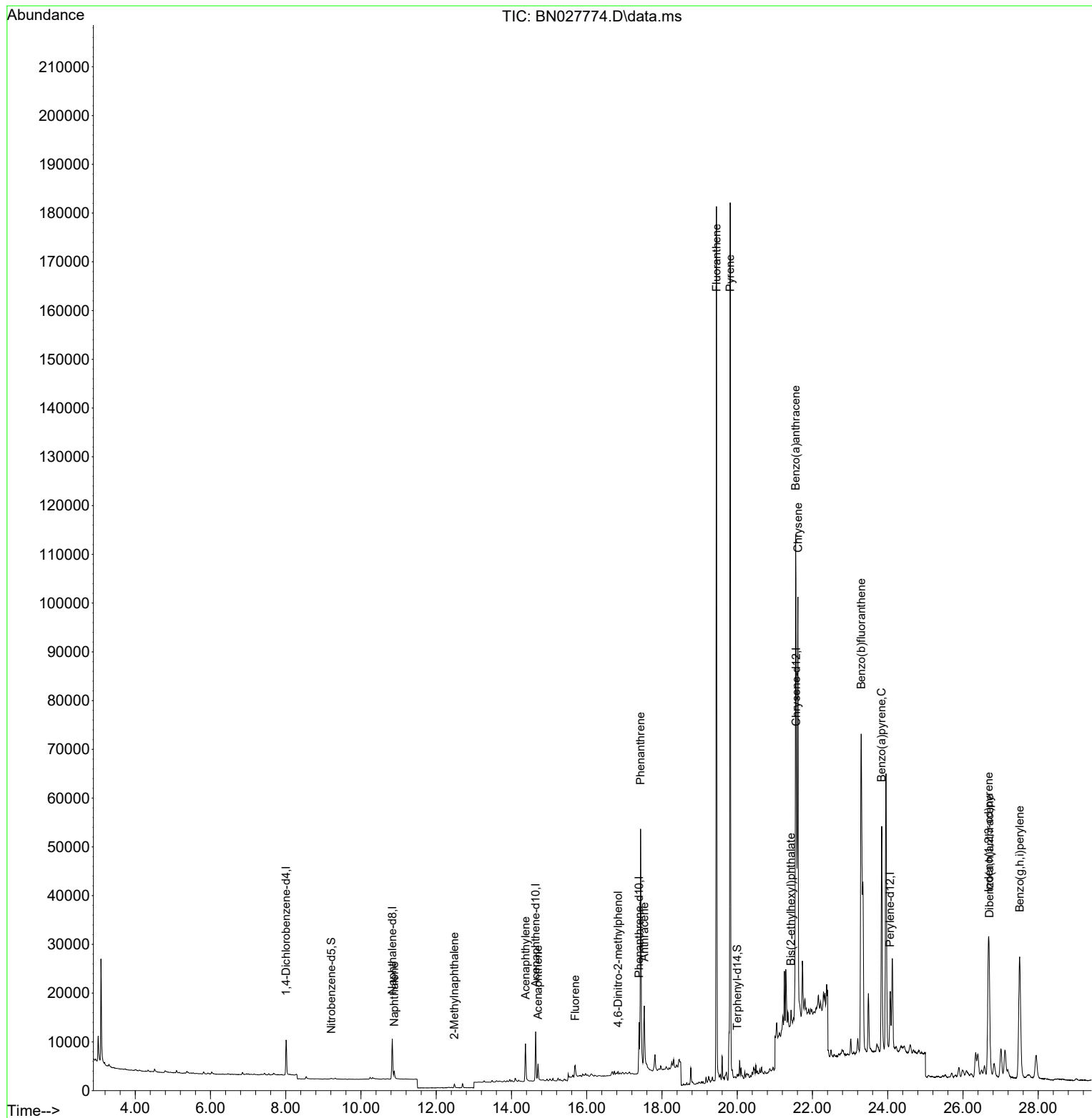
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.008	152	3755	0.400	ng	0.00
7) Naphthalene-d8	10.831	136	11832	0.400	ng	0.00
13) Acenaphthene-d10	14.641	164	6375	0.400	ng	0.00
19) Phenanthrene-d10	17.393	188	16245	0.400	ng	0.00
29) Chrysene-d12	21.569	240	17857	0.400	ng	# 0.00
35) Perylene-d12	24.066	264	19007	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.538	112	133	0.014	ng	0.00
5) Phenol-d6	7.163	99	140	0.012	ng	0.00
8) Nitrobenzene-d5	9.209	82	215	0.023	ng	0.00
11) 2-Methylnaphthalene-d10	12.408	152	181	0.010	ng	0.00
14) 2,4,6-Tribromophenol	16.140	330	28	0.010	ng	0.00
15) 2-Fluorobiphenyl	13.272	172	287	0.013	ng	0.00
27) Fluoranthene-d10	19.416	212	587	0.014	ng	0.00
31) Terphenyl-d14	20.001	244	709	0.021	ng	0.00
Target Compounds						
9) Naphthalene	10.885	128	2011	0.061	ng	# 89
12) 2-Methylnaphthalene	12.483	142	673	0.030	ng	# 85
16) Acenaphthylene	14.373	152	10236	0.376	ng	99
17) Acenaphthene	14.705	154	1734	0.090	ng	99
18) Fluorene	15.693	166	2764	0.099	ng	100
20) 4,6-Dinitro-2-methylph...	16.835	198	7	0.029	ng	# 52
24) Pentachlorophenol	17.033	266	30	Below Cal		# 42
25) Phenanthrene	17.430	178	57595	1.212	ng	100
26) Anthracene	17.530	178	19706	0.484	ng	# 95
28) Fluoranthene	19.449	202	163523	2.800	ng	100
30) Pyrene	19.816	202	163545	2.549	ng	99
32) Benzo(a)anthracene	21.551	228	96452	1.556	ng	98
33) Chrysene	21.614	228	89386	1.310	ng	96
34) Bis(2-ethylhexyl)phtha...	21.426	149	3140	0.114	ng	# 87
36) Indeno(1,2,3-cd)pyrene	26.683	276	56859	0.703	ng	94
37) Benzo(b)fluoranthene	23.294	252	127390	1.695	ng	97
39) Benzo(a)pyrene	23.838	252	68262	1.000	ng	96
40) Dibenzo(a,h)anthracene	26.700	278	13192	0.200	ng	# 77
41) Benzo(g,h,i)perylene	27.507	276	59996	0.822	ng	99

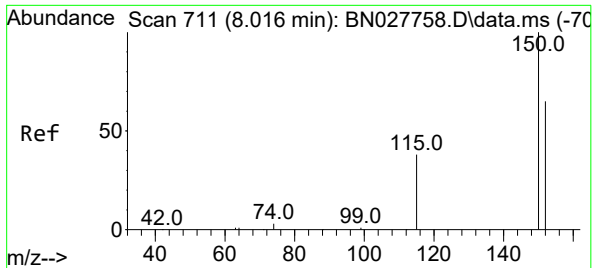
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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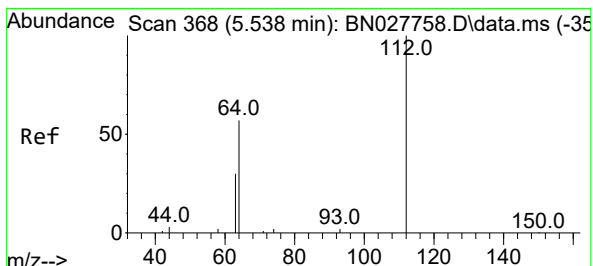
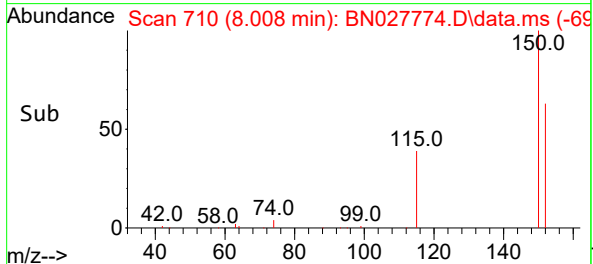
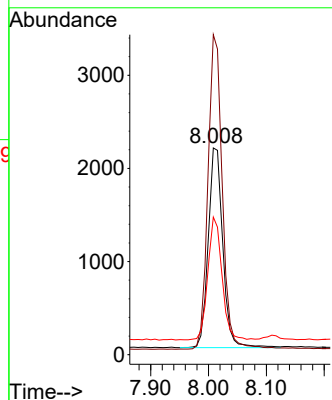
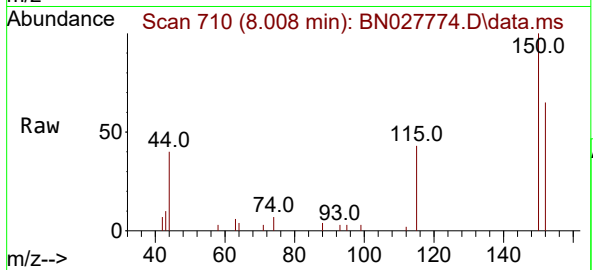




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.008 min Scan# 711
Delta R.T. -0.008 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

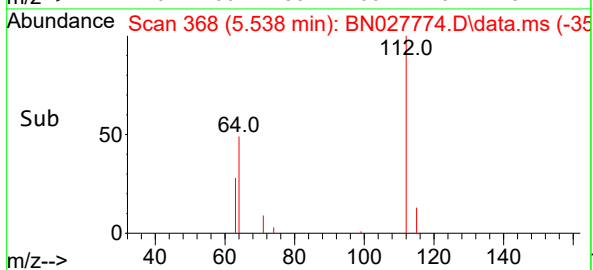
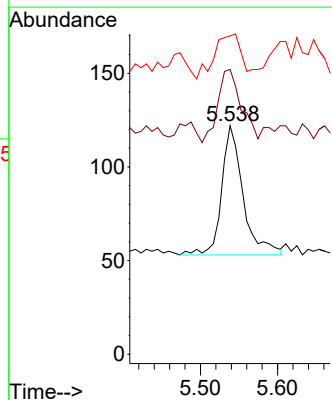
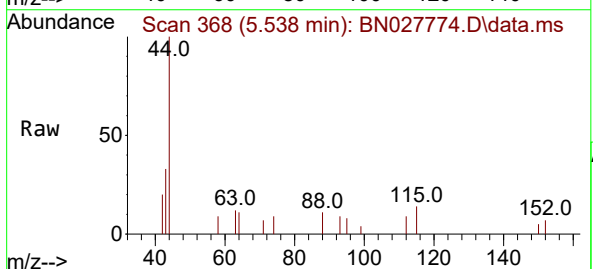
Instrument :
BNA_N
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PILE-4

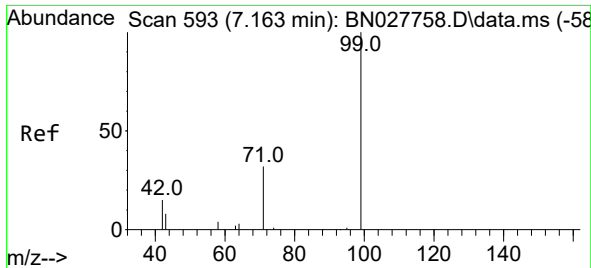
Tgt Ion:152 Resp: 3755
Ion Ratio Lower Upper
152 100
150 154.8 120.2 180.2
115 66.6 54.5 81.7



#4
2-Fluorophenol
Concen: 0.014 ng
RT: 5.538 min Scan# 368
Delta R.T. 0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion:112 Resp: 133
Ion Ratio Lower Upper
112 100
64 61.7 46.1 69.1
63 43.6 24.0 36.0#

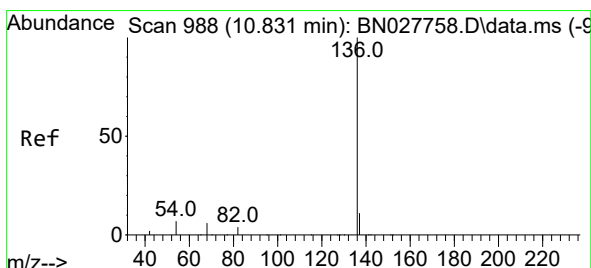
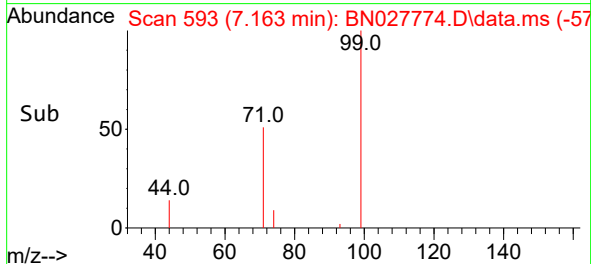
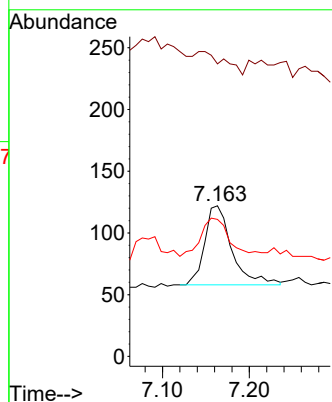
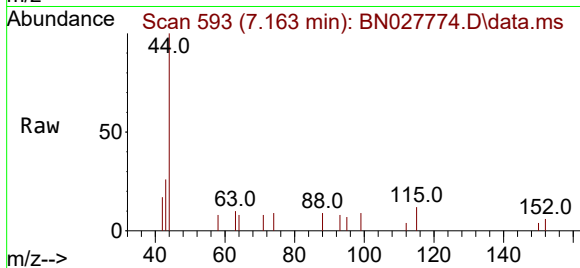




#5
Phenol-d6
Concen: 0.012 ng
RT: 7.163 min Scan# 593
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

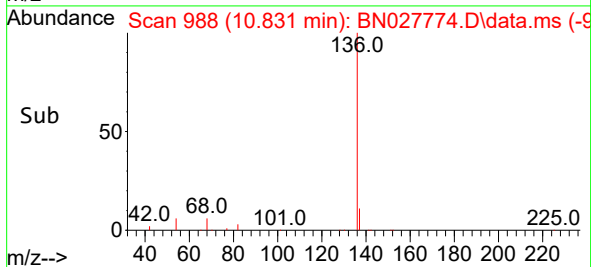
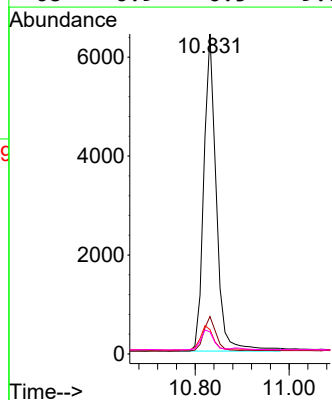
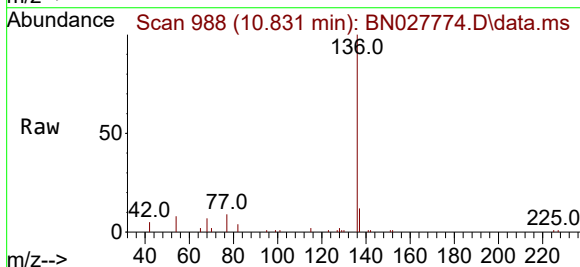
Instrument :
BNA_N
ClientSampleId :
PILE-4

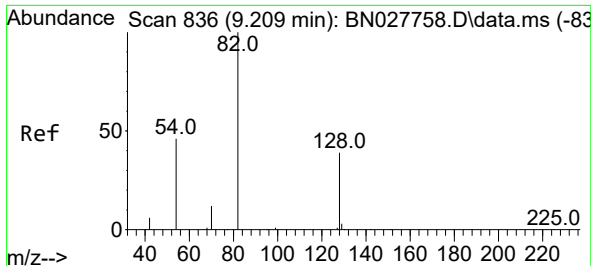
Tgt Ion: 99 Resp: 140
Ion Ratio Lower Upper
99 100
42 0.0 16.6 25.0#
71 50.7 28.1 42.1#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.831 min Scan# 988
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion: 136 Resp: 11832
Ion Ratio Lower Upper
136 100
137 11.7 10.1 15.1
54 7.6 7.4 11.0
68 6.9 6.5 9.7

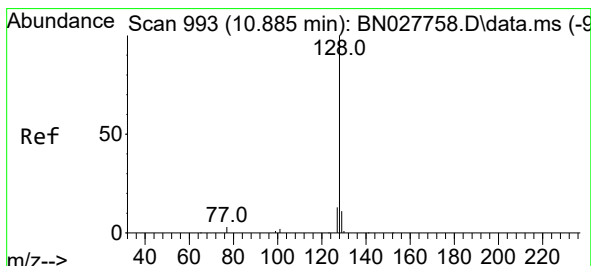
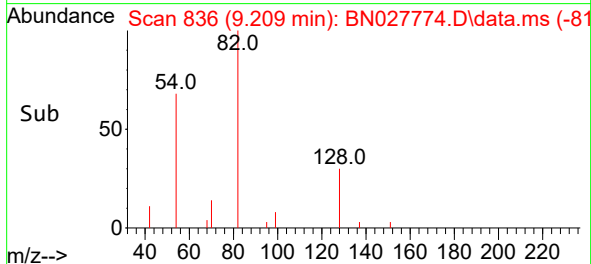
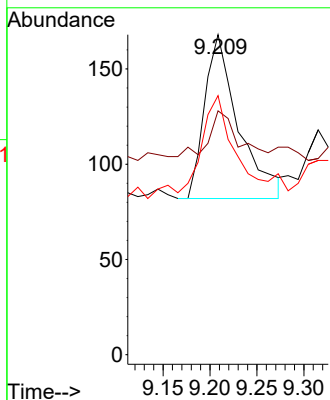
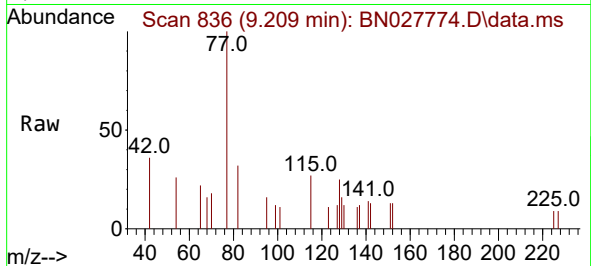




#8
Nitrobenzene-d5
Concen: 0.023 ng
RT: 9.209 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

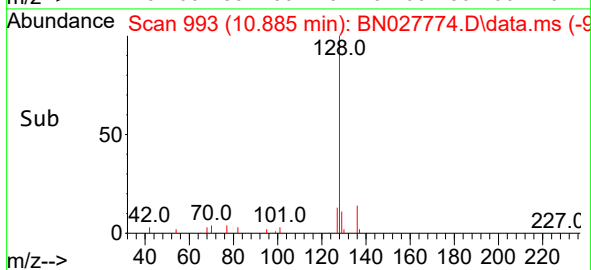
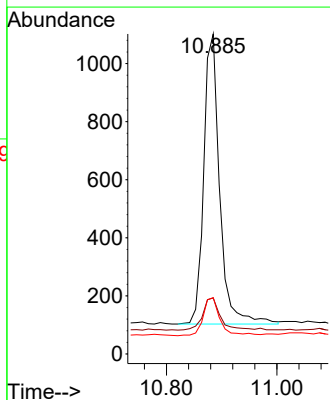
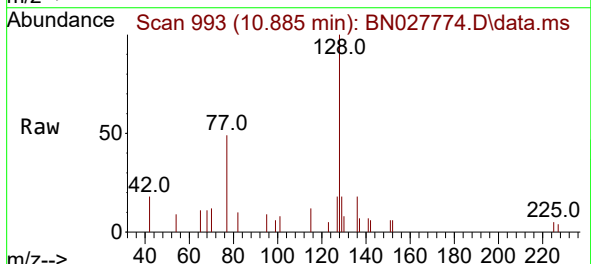
Instrument :
BNA_N
ClientSampleId :
PILE-4

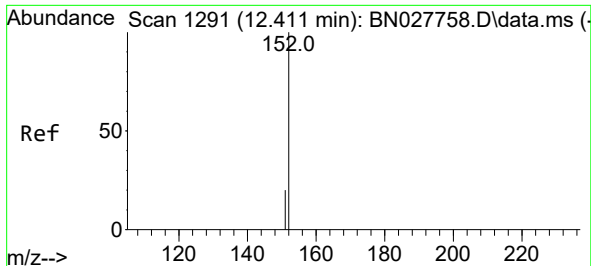
Tgt Ion: 82 Resp: 215
Ion Ratio Lower Upper
82 100
128 76.2 36.8 55.2#
54 81.0 39.9 59.9#



#9
Naphthalene
Concen: 0.061 ng
RT: 10.885 min Scan# 993
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion: 128 Resp: 2011
Ion Ratio Lower Upper
128 100
129 17.5 10.2 15.2#
127 17.6 11.1 16.7#





#11

2-Methylnaphthalene-d10

Concen: 0.010 ng

RT: 12.408 min Scan# 11

Delta R.T. -0.004 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

Instrument :

BNA_N

ClientSampleId :

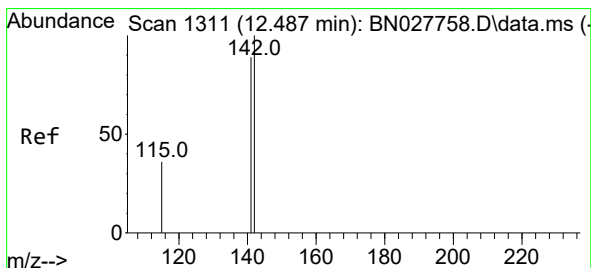
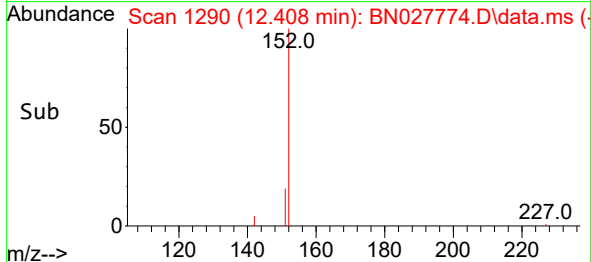
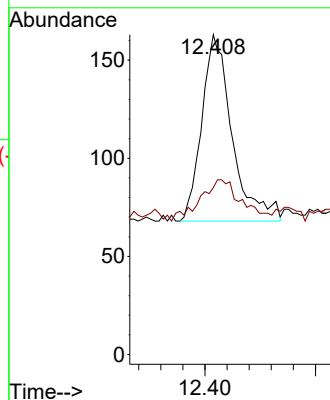
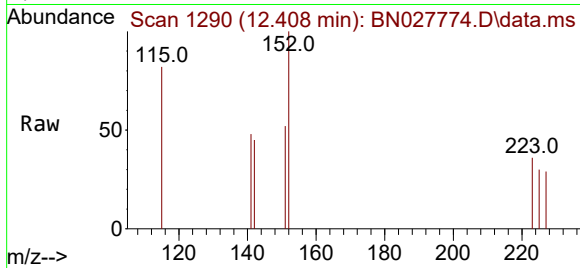
PILE-4

Tgt Ion:152 Resp: 181

Ion Ratio Lower Upper

152 100

151 29.3 15.6 23.4#



#12

2-Methylnaphthalene

Concen: 0.030 ng

RT: 12.483 min Scan# 1310

Delta R.T. -0.004 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

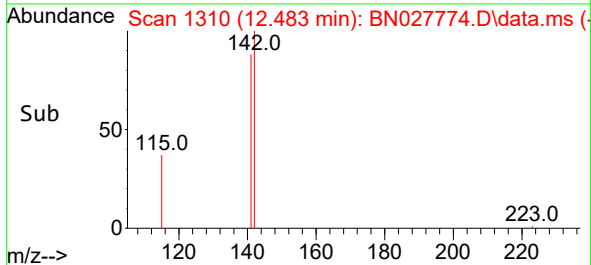
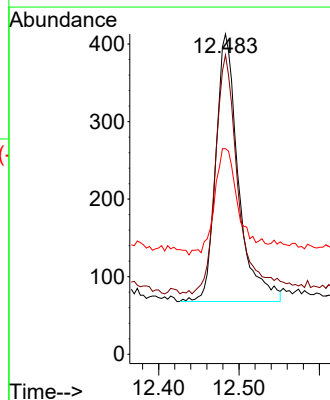
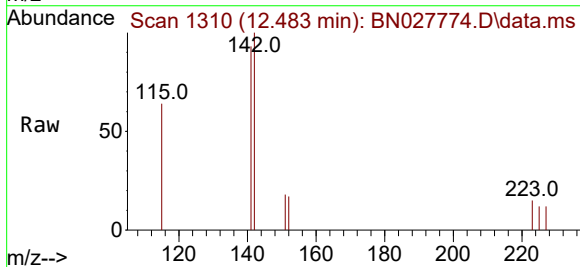
Tgt Ion:142 Resp: 673

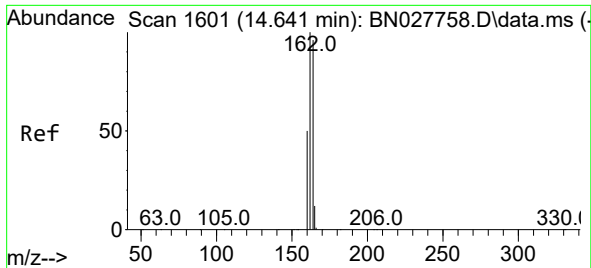
Ion Ratio Lower Upper

142 100

141 93.5 71.5 107.3

115 64.2 31.8 47.6#

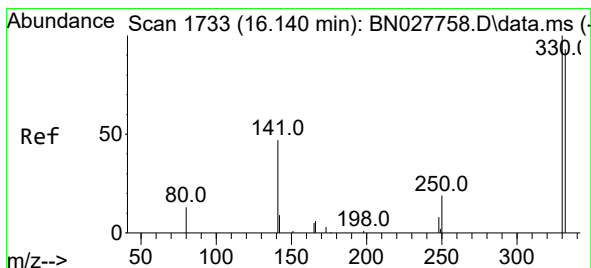
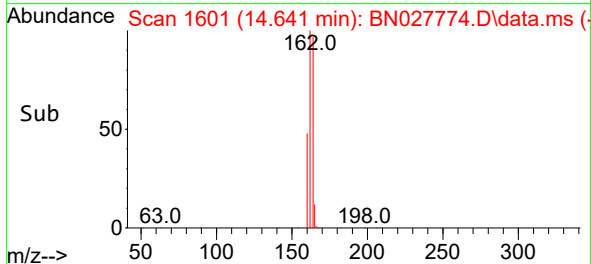
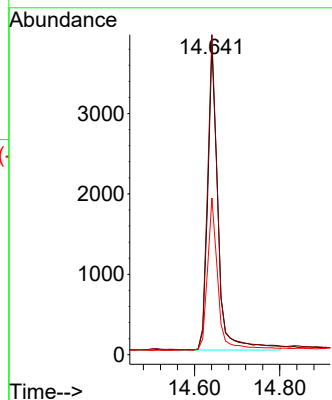
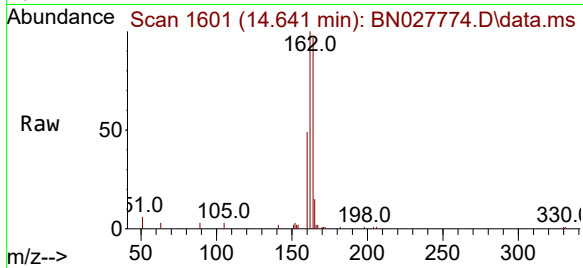




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.641 min Scan# 1601
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

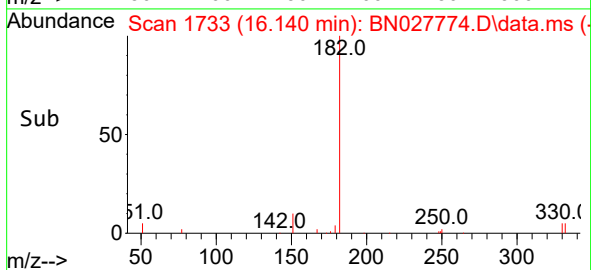
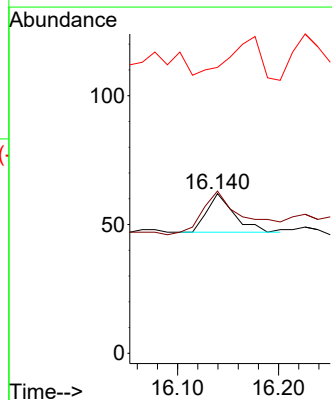
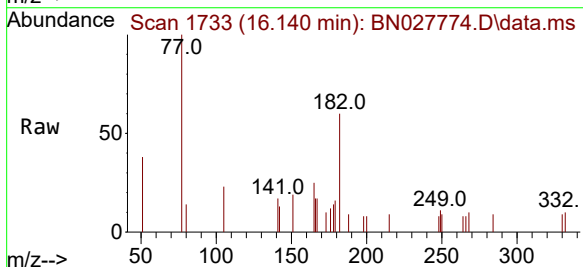
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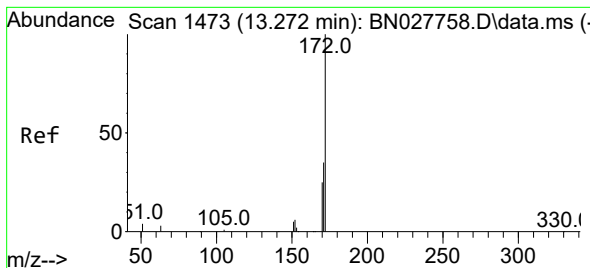
Tgt Ion:164 Resp: 6375
Ion Ratio Lower Upper
164 100
162 103.5 83.6 125.4
160 50.7 42.6 64.0



#14
2,4,6-Tribromophenol
Concen: 0.010 ng
RT: 16.140 min Scan# 1733
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion:330 Resp: 28
Ion Ratio Lower Upper
330 100
332 175.0 77.0 115.4#
141 0.0 38.1 57.1#





#15

2-Fluorobiphenyl

Concen: 0.013 ng

RT: 13.272 min Scan# 1473

Delta R.T. -0.000 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

Instrument :

BNA_N

ClientSampleId :

PILE-4

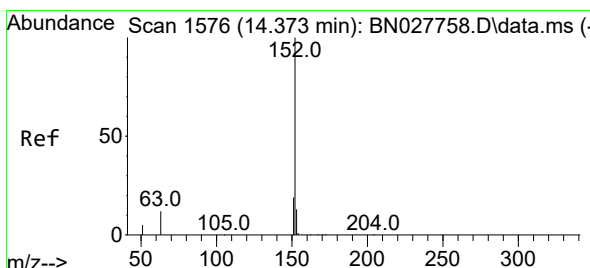
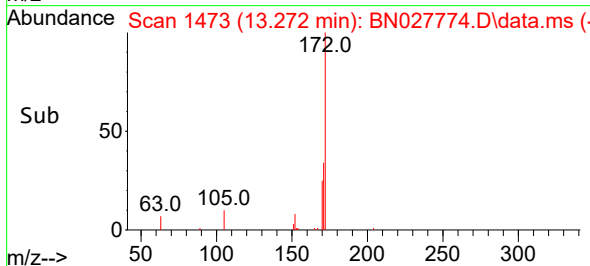
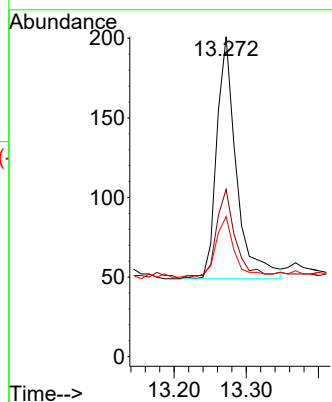
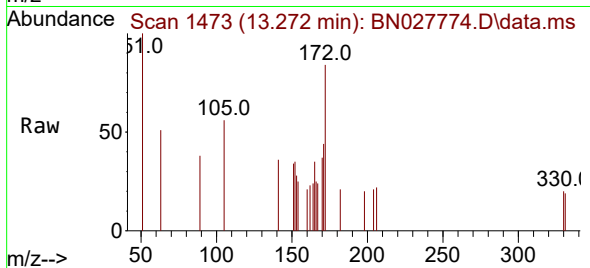
Tgt Ion:172 Resp: 287

Ion Ratio Lower Upper

172 100

171 52.2 29.3 43.9#

170 43.8 20.8 31.2#



#16

Acenaphthylene

Concen: 0.376 ng

RT: 14.373 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

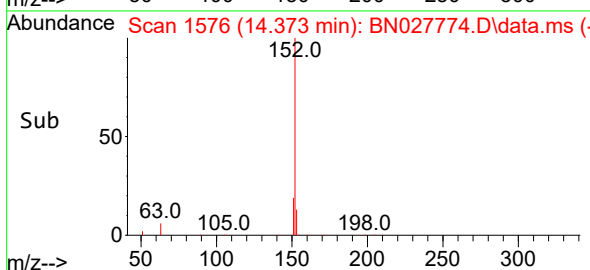
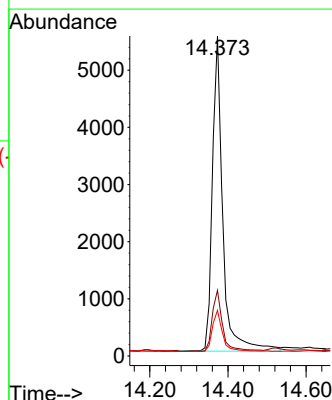
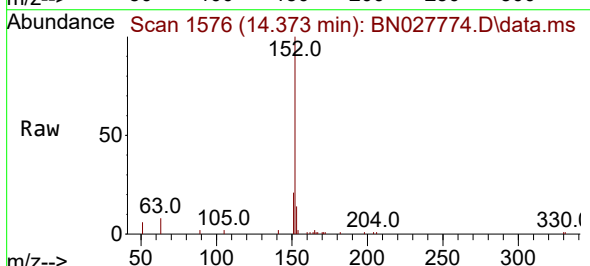
Tgt Ion:152 Resp: 10236

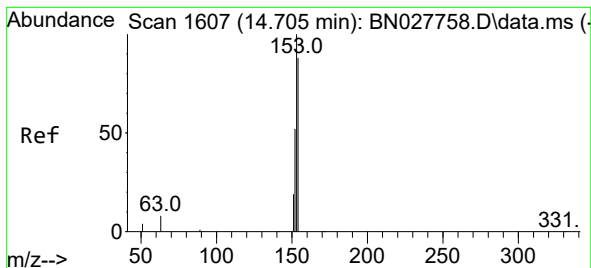
Ion Ratio Lower Upper

152 100

151 19.5 15.4 23.2

153 12.8 10.6 15.8





#17

Acenaphthene

Concen: 0.090 ng

RT: 14.705 min Scan# 1607

Delta R.T. 0.000 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

Instrument :

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PILE-4

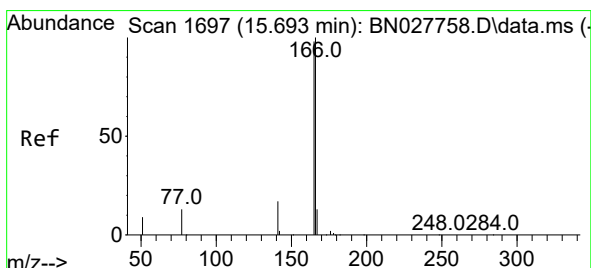
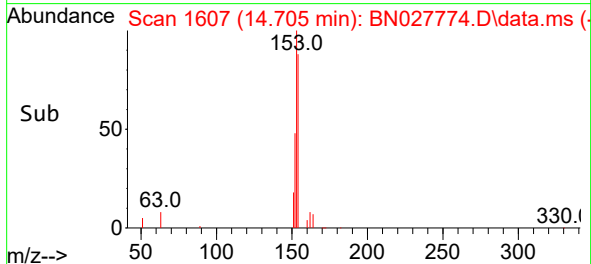
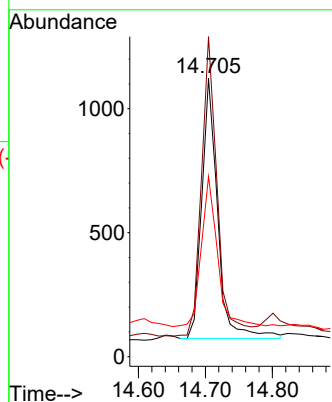
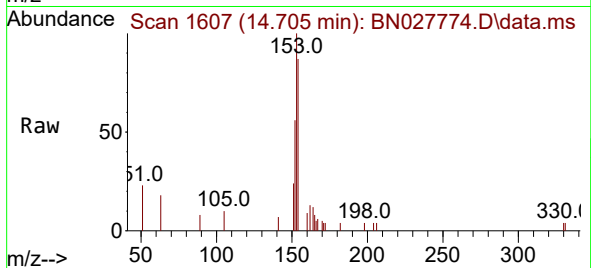
Tgt Ion:154 Resp: 1734

Ion Ratio Lower Upper

154 100

153 113.6 91.0 136.6

152 58.0 47.4 71.2



#18

Fluorene

Concen: 0.099 ng

RT: 15.693 min Scan# 1697

Delta R.T. -0.000 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

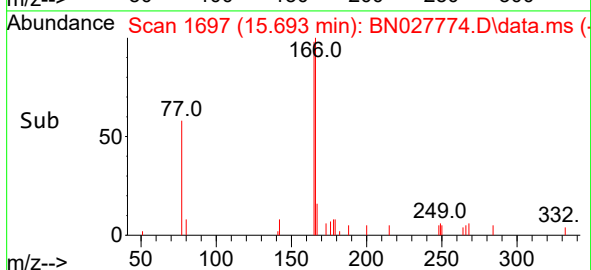
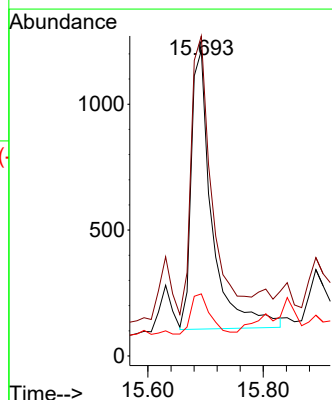
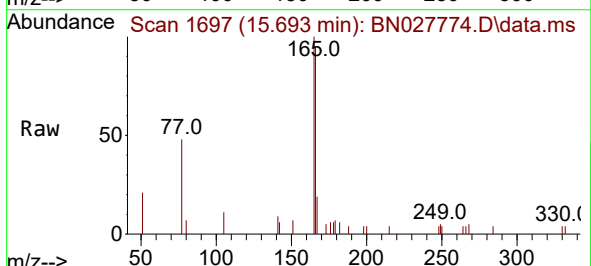
Tgt Ion:166 Resp: 2764

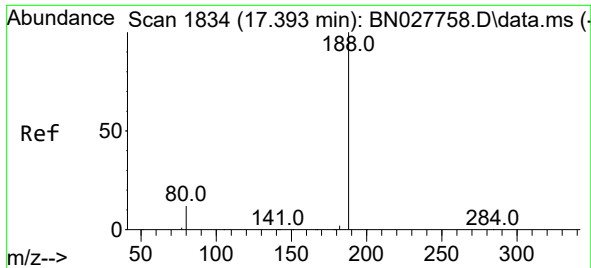
Ion Ratio Lower Upper

166 100

165 99.1 79.3 118.9

167 13.3 10.6 16.0

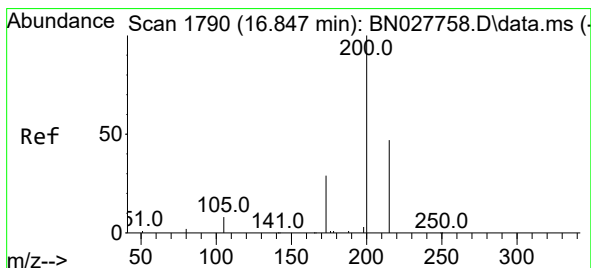
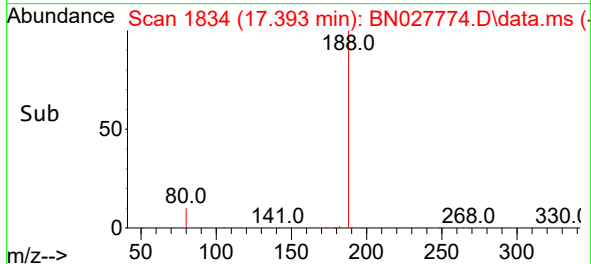
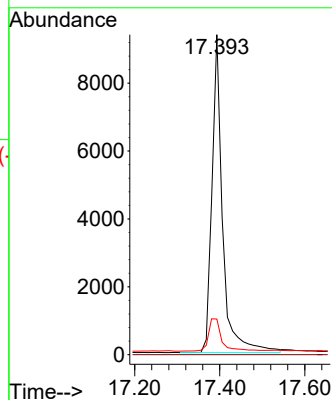
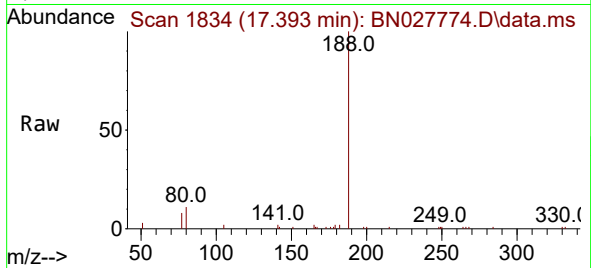




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.393 min Scan# 1834
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

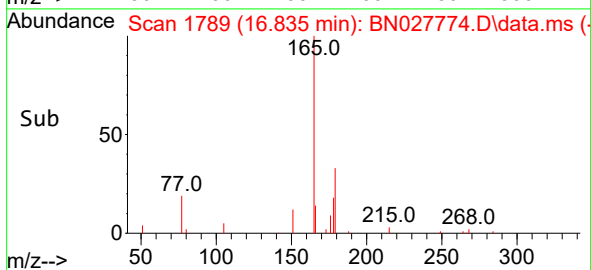
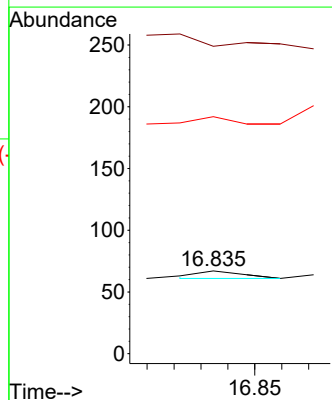
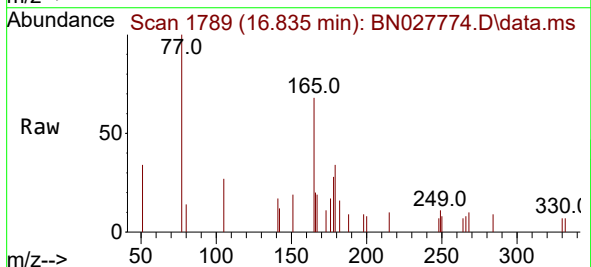
Instrument :
BNA_N
ClientSampleId :
PILE-4

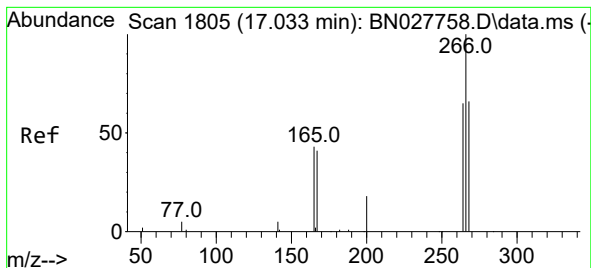
Tgt Ion:188 Resp: 16245
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.2 10.6 16.0



#20
4,6-Dinitro-2-methylphenol
Concen: 0.029 ng
RT: 16.835 min Scan# 1789
Delta R.T. -0.012 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion:198 Resp: 7
Ion Ratio Lower Upper
198 100
51 371.6 225.2 337.8#
105 286.6 168.9 253.3#





#24

Pentachlorophenol

Concen: Below Cal

RT: 17.033 min Scan# 1805

Delta R.T. 0.000 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

Instrument :

BNA_N

ClientSampleId :

PILE-4

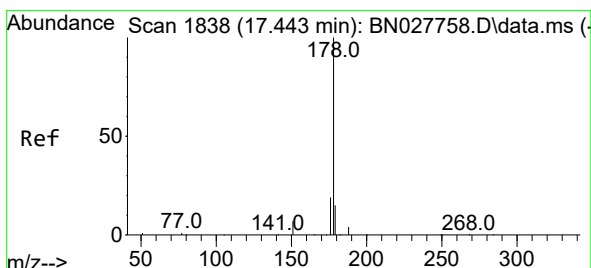
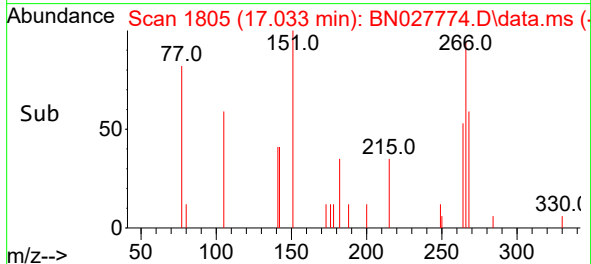
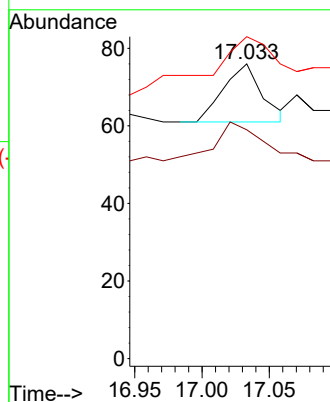
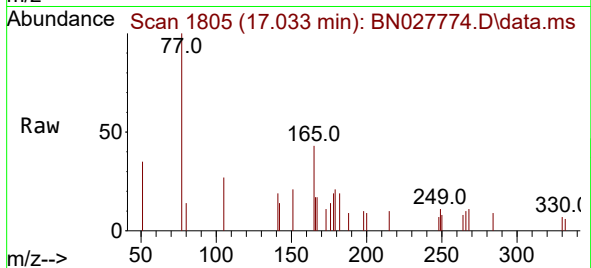
Tgt Ion:266 Resp: 30

Ion Ratio Lower Upper

266 100

264 83.3 50.8 76.2#

268 136.7 53.0 79.6#



#25

Phenanthrene

Concen: 1.212 ng

RT: 17.430 min Scan# 1837

Delta R.T. -0.012 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

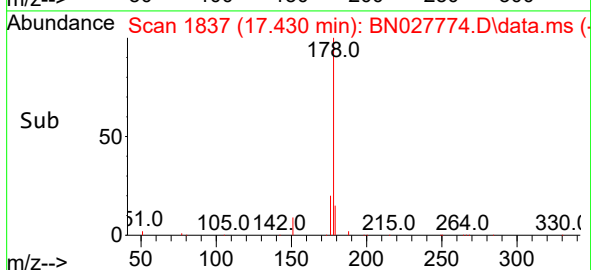
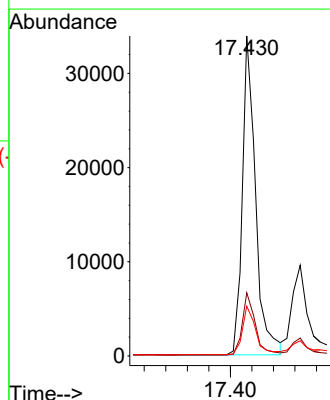
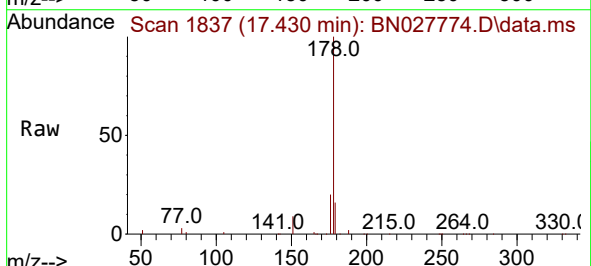
Tgt Ion:178 Resp: 57595

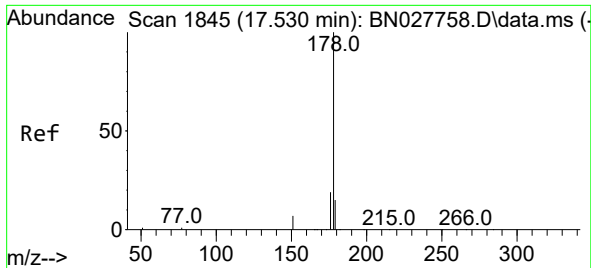
Ion Ratio Lower Upper

178 100

176 19.3 15.5 23.3

179 15.2 12.3 18.5

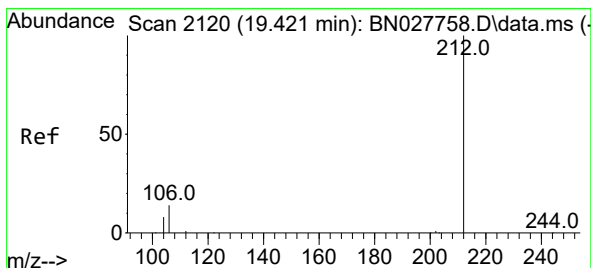
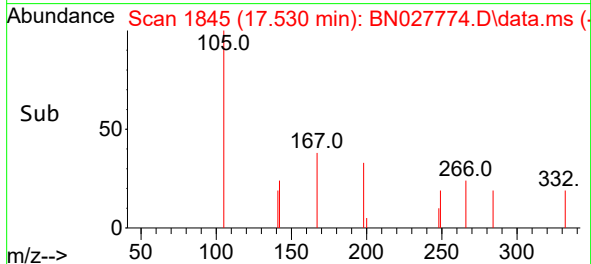
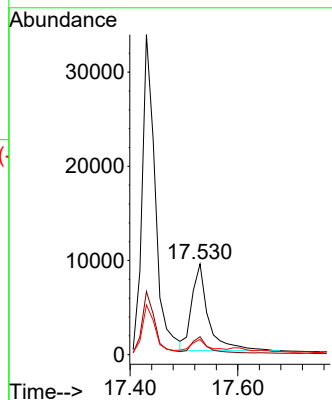
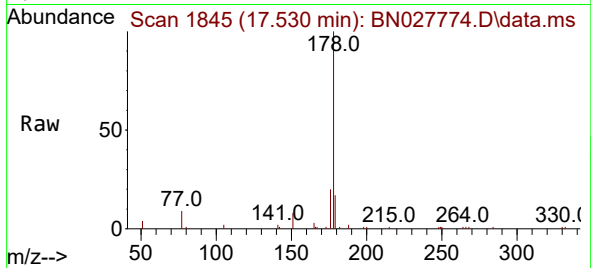




#26
 Anthracene
 Concen: 0.484 ng
 RT: 17.530 min Scan# 1119
 Delta R.T. -0.000 min
 Lab File: BN027774.D
 Acq: 20 Sep 2023 21:40

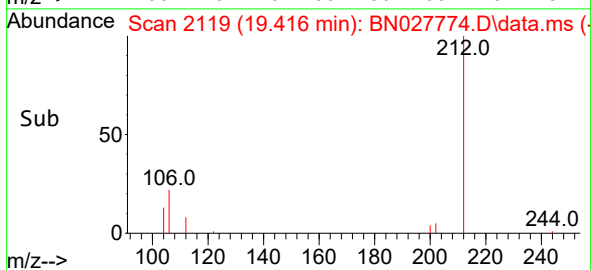
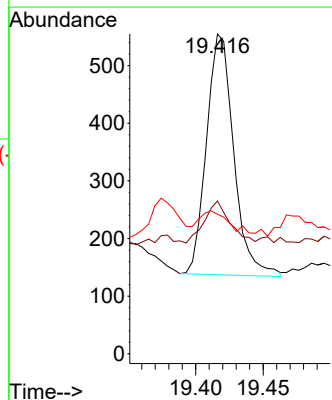
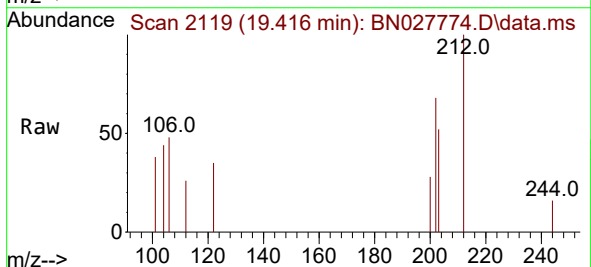
Instrument :
 BNA_N
 ClientSampleId :
 PILE-4

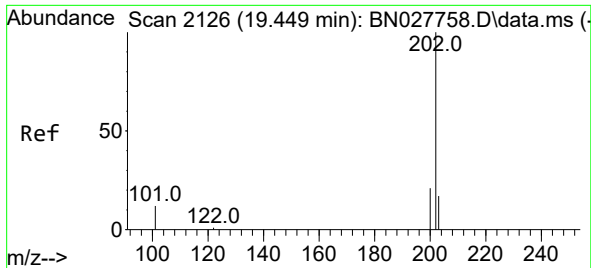
Tgt Ion:178 Resp: 19706
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.2 22.8
 179 11.5 12.2 18.2#



#27
 Fluoranthene-d10
 Concen: 0.014 ng
 RT: 19.416 min Scan# 2119
 Delta R.T. -0.005 min
 Lab File: BN027774.D
 Acq: 20 Sep 2023 21:40

Tgt Ion:212 Resp: 587
 Ion Ratio Lower Upper
 212 100
 106 16.9 12.2 18.2
 104 11.8 7.0 10.4#

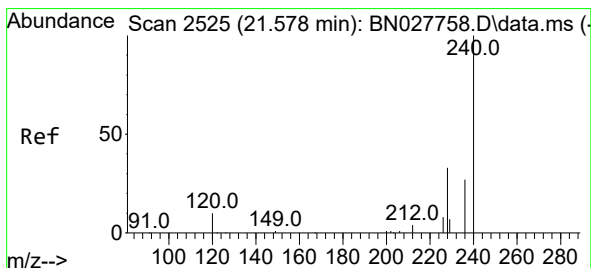
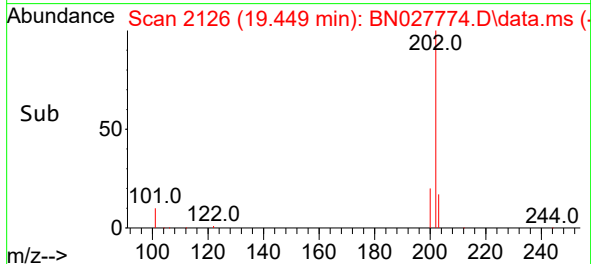
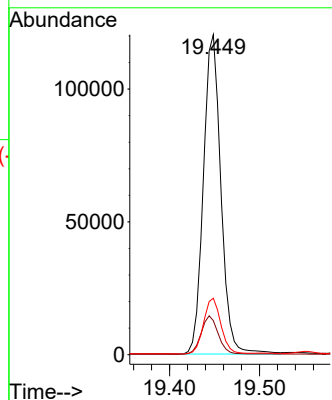
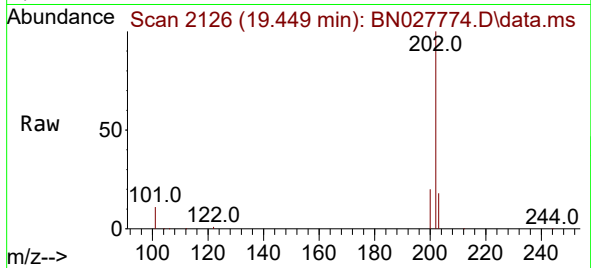




#28
Fluoranthene
Concen: 2.800 ng
RT: 19.449 min Scan# 2126
Delta R.T. 0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

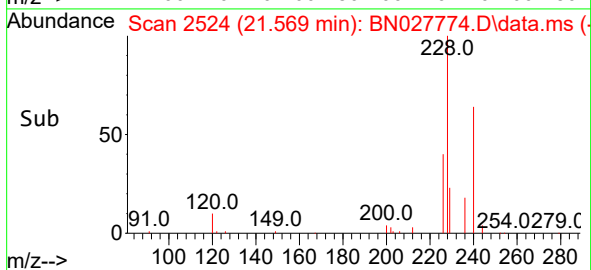
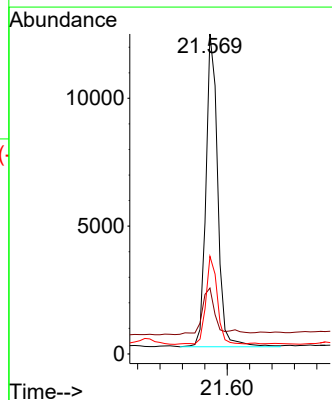
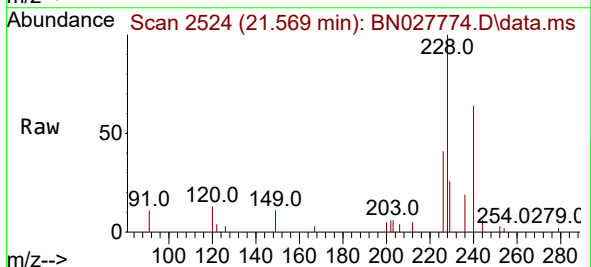
Instrument :
BNA_N
ClientSampleId :
PILE-4

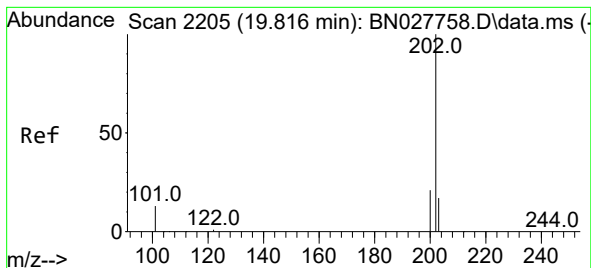
Tgt Ion:202 Resp: 163523
Ion Ratio Lower Upper
202 100
101 11.7 9.6 14.4
203 17.2 13.8 20.6



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.569 min Scan# 2524
Delta R.T. -0.009 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion:240 Resp: 17857
Ion Ratio Lower Upper
240 100
120 20.6 11.2 16.8#
236 30.5 22.8 34.2





#30

Pyrene

Concen: 2.549 ng

RT: 19.816 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

Instrument :

BNA_N

ClientSampleId :

PILE-4

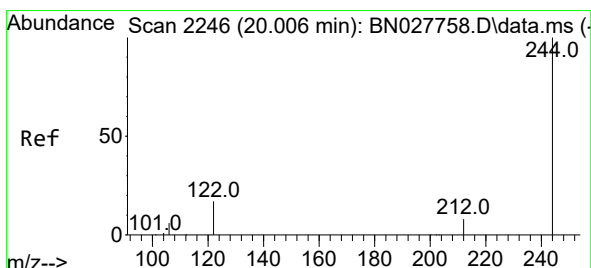
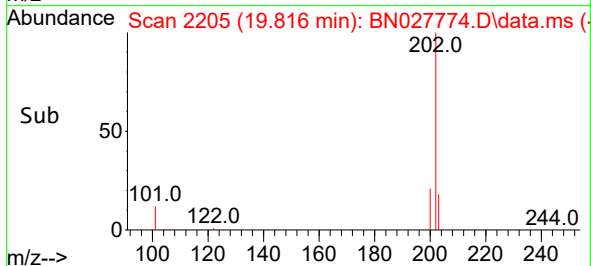
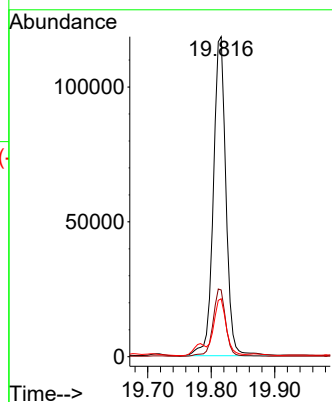
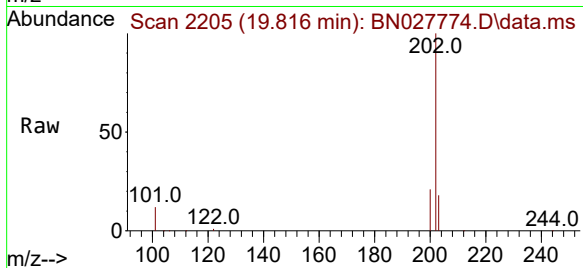
Tgt Ion:202 Resp: 163545

Ion Ratio Lower Upper

202 100

200 21.2 16.7 25.1

203 17.4 14.2 21.4



#31

Terphenyl-d14

Concen: 0.021 ng

RT: 20.001 min Scan# 2245

Delta R.T. -0.005 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

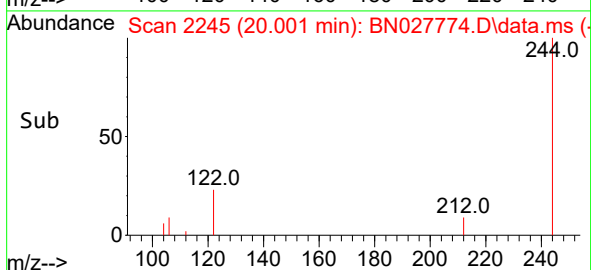
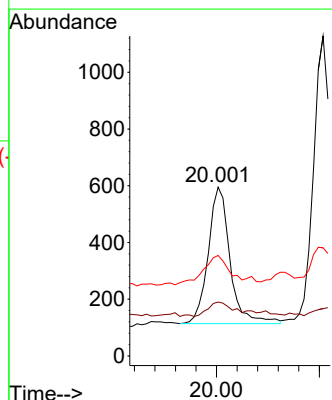
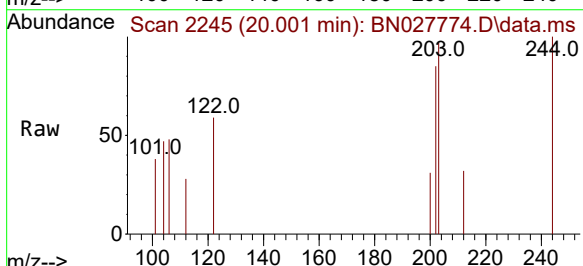
Tgt Ion:244 Resp: 709

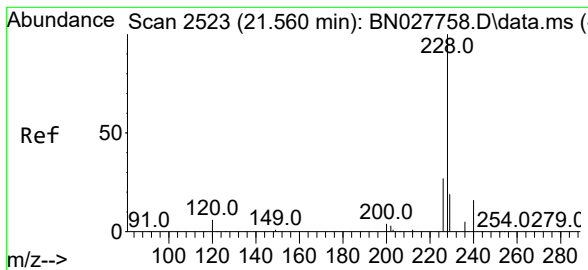
Ion Ratio Lower Upper

244 100

212 31.9 7.5 11.3#

122 59.5 13.9 20.9#

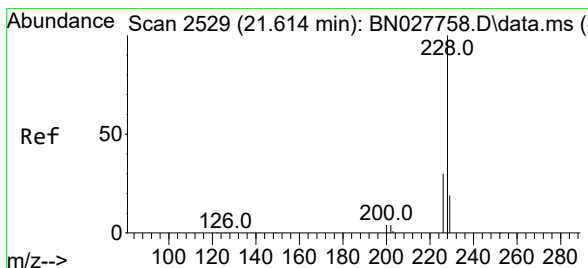
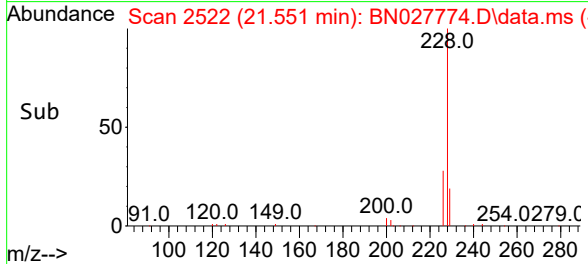
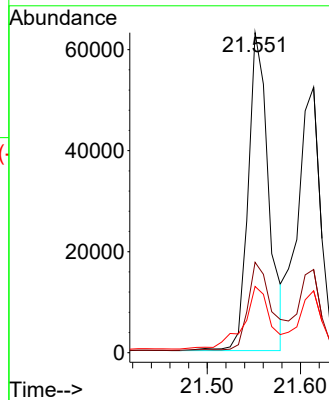
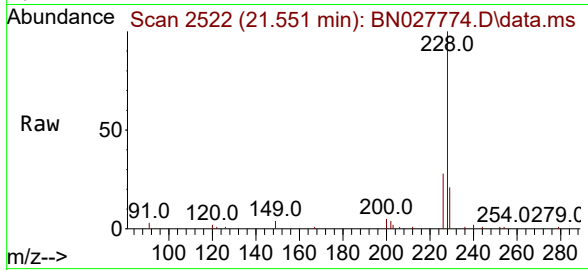




#32
Benzo(a)anthracene
Concen: 1.556 ng
RT: 21.551 min Scan# 21551
Delta R.T. -0.009 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

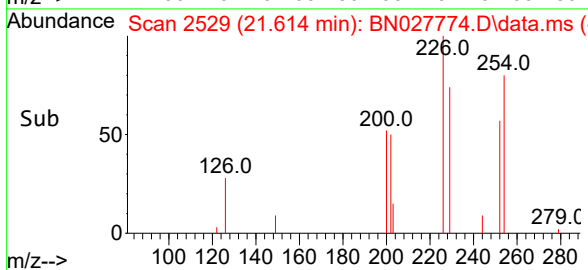
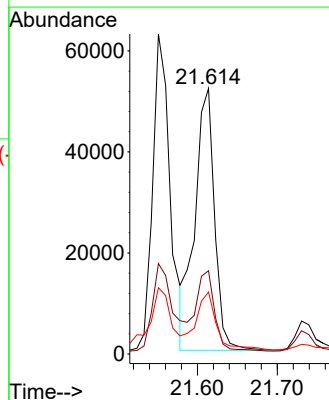
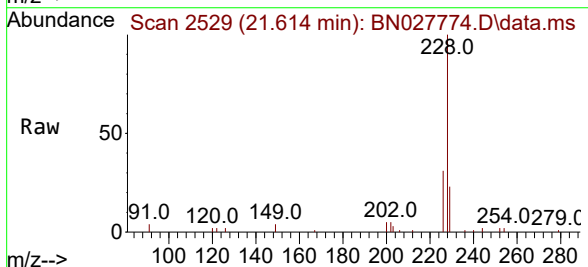
Instrument :
BNA_N
ClientSampleId :
PILE-4

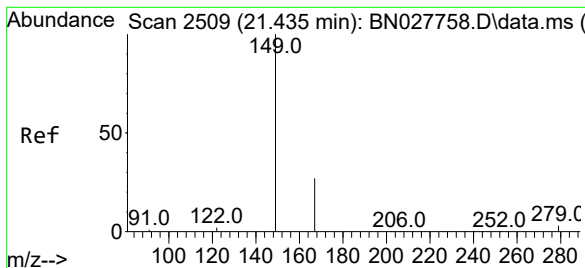
Tgt Ion:228 Resp: 96452
Ion Ratio Lower Upper
228 100
226 28.3 21.9 32.9
229 20.7 15.8 23.6



#33
Chrysene
Concen: 1.310 ng
RT: 21.614 min Scan# 2529
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion:228 Resp: 89386
Ion Ratio Lower Upper
228 100
226 31.3 24.2 36.4
229 23.3 15.7 23.5

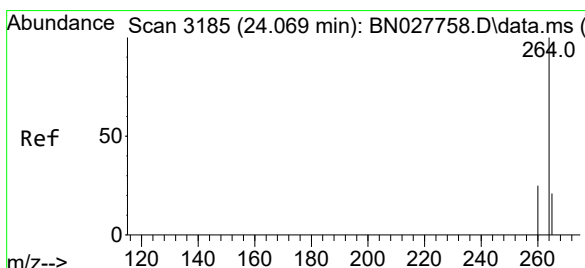
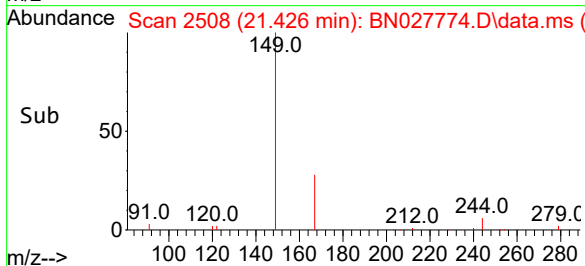
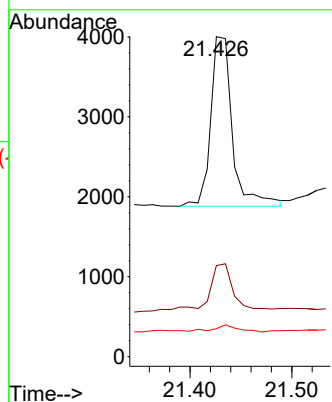
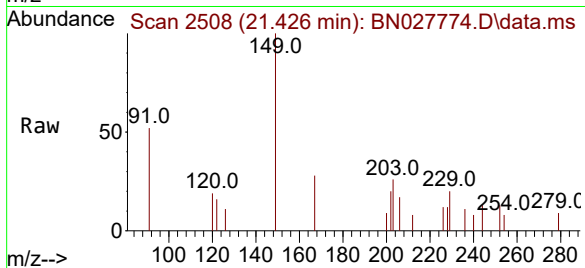




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 21.426 min Scan# 2140
Delta R.T. -0.009 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

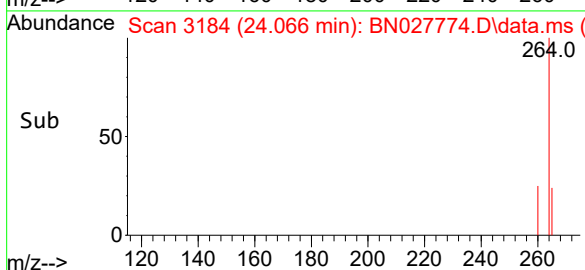
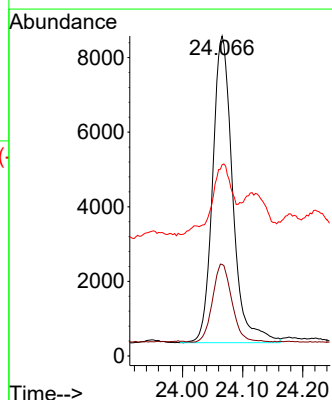
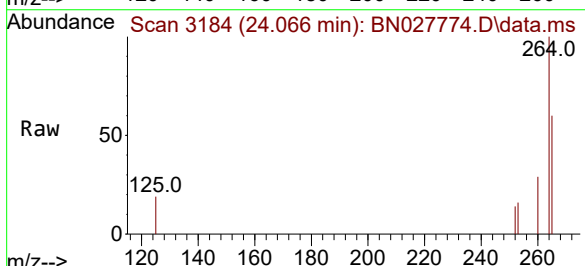
Instrument :
BNA_N
ClientSampleId :
PILE-4

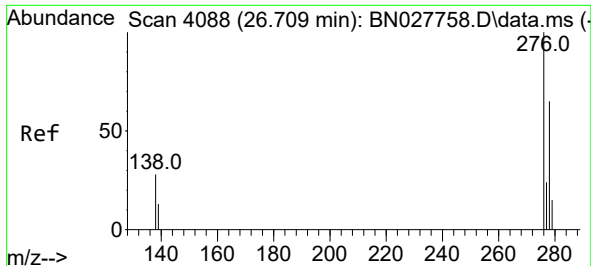
Tgt Ion:149 Resp: 3140
Ion Ratio Lower Upper
149 100
167 33.8 21.4 32.2#
279 4.7 2.3 3.5#



#35
Perylene-d12
Concen: 0.400 ng
RT: 24.066 min Scan# 3184
Delta R.T. -0.003 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion:264 Resp: 19007
Ion Ratio Lower Upper
264 100
260 28.6 21.0 31.6
265 59.8 60.5 90.7#

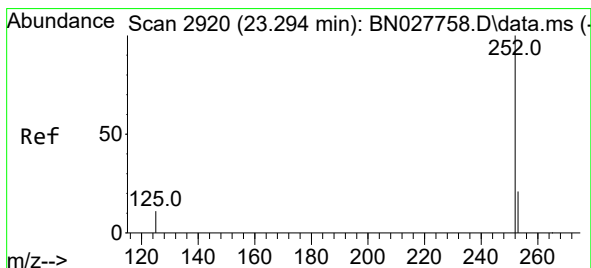
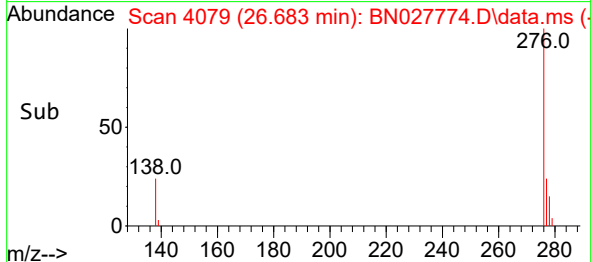
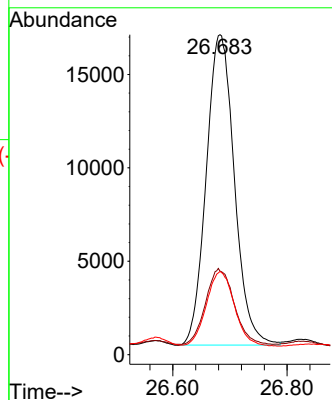
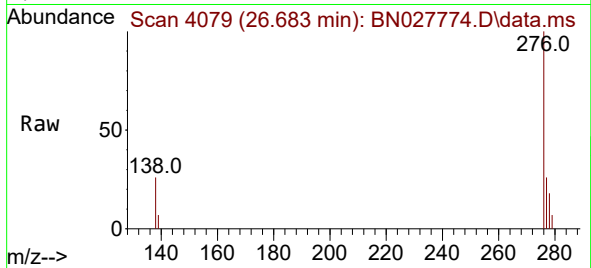




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.703 ng
RT: 26.683 min Scan# 4088
Delta R.T. -0.026 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

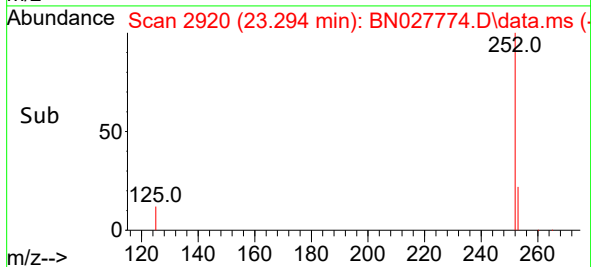
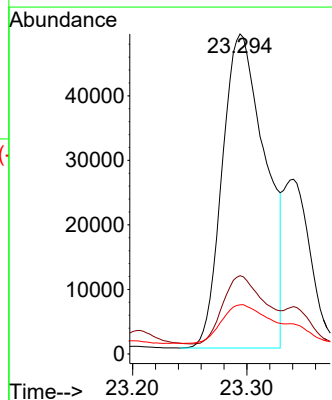
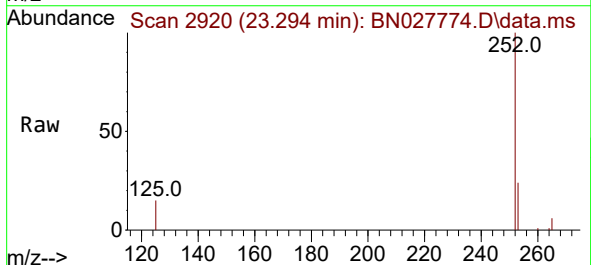
Instrument :
BNA_N
ClientSampleId :
PILE-4

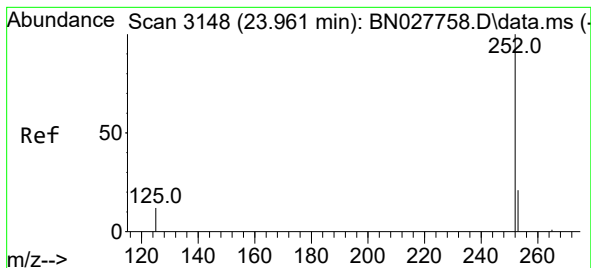
Tgt Ion:276 Resp: 56859
Ion Ratio Lower Upper
276 100
138 24.4 23.5 35.3
277 23.9 19.9 29.9



#37
Benzo(b)fluoranthene
Concen: 1.695 ng
RT: 23.294 min Scan# 2920
Delta R.T. 0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion:252 Resp: 127390
Ion Ratio Lower Upper
252 100
253 24.4 20.8 31.2
125 15.3 13.5 20.3





#39

Benzo(a)pyrene

Concen: 1.000 ng

RT: 23.838 min Scan# 31

Delta R.T. -0.123 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

Instrument :

BNA_N

ClientSampleId :

PILE-4

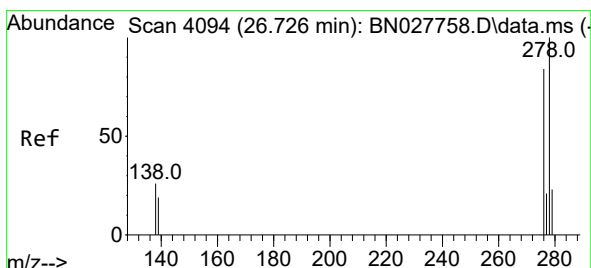
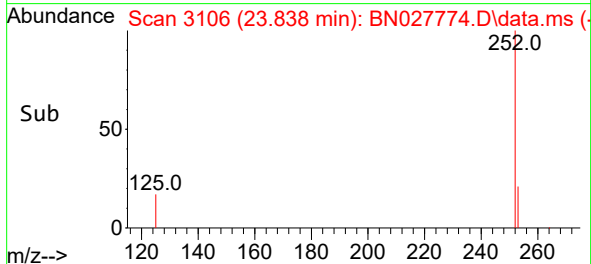
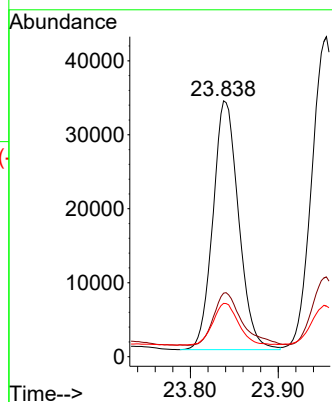
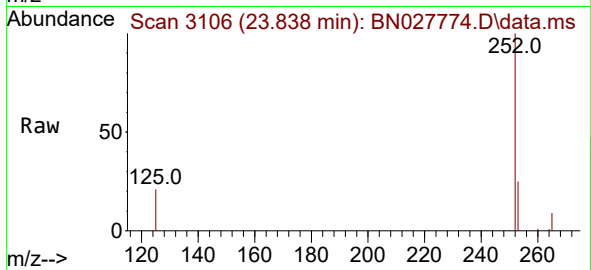
Tgt Ion:252 Resp: 68262

Ion Ratio Lower Upper

252 100

253 24.8 22.6 33.8

125 20.8 16.5 24.7



#40

Dibenzo(a,h)anthracene

Concen: 0.200 ng

RT: 26.700 min Scan# 4085

Delta R.T. -0.026 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

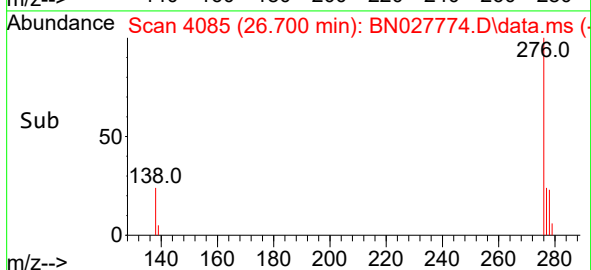
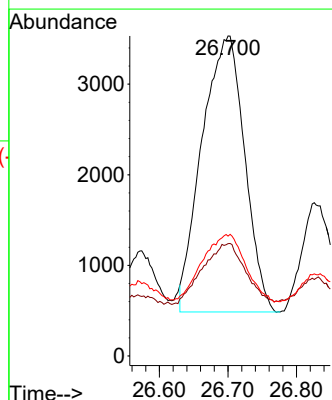
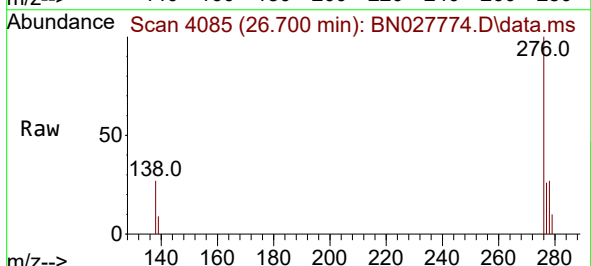
Tgt Ion:278 Resp: 13192

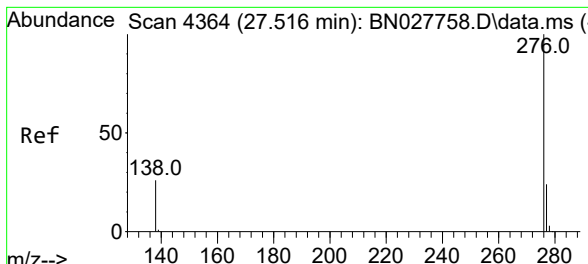
Ion Ratio Lower Upper

278 100

139 35.1 17.1 25.7#

279 37.4 22.2 33.2#





#41
 Benzo(g,h,i)perylene
 Concen: 0.822 ng
 RT: 27.507 min Scan# 41
 Delta R.T. -0.009 min
 Lab File: BN027774.D
 Acq: 20 Sep 2023 21:40

Instrument :
 BNA_N
 ClientSampleId :
 PILE-4

Tgt Ion:	276	Resp:	59996
Ion Ratio	Lower	Upper	
276	100		
277	25.7	20.4	30.6
138	27.7	21.9	32.9

