

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102423\
 Data File : BN028390.D
 Acq On : 25 Oct 2023 00:50
 Operator : MA/JU
 Sample : 04938-07
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A-4(0-2)

Quant Time: Oct 25 01:34:37 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN101223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 23 15:14:08 2023
 Response via : Initial Calibration

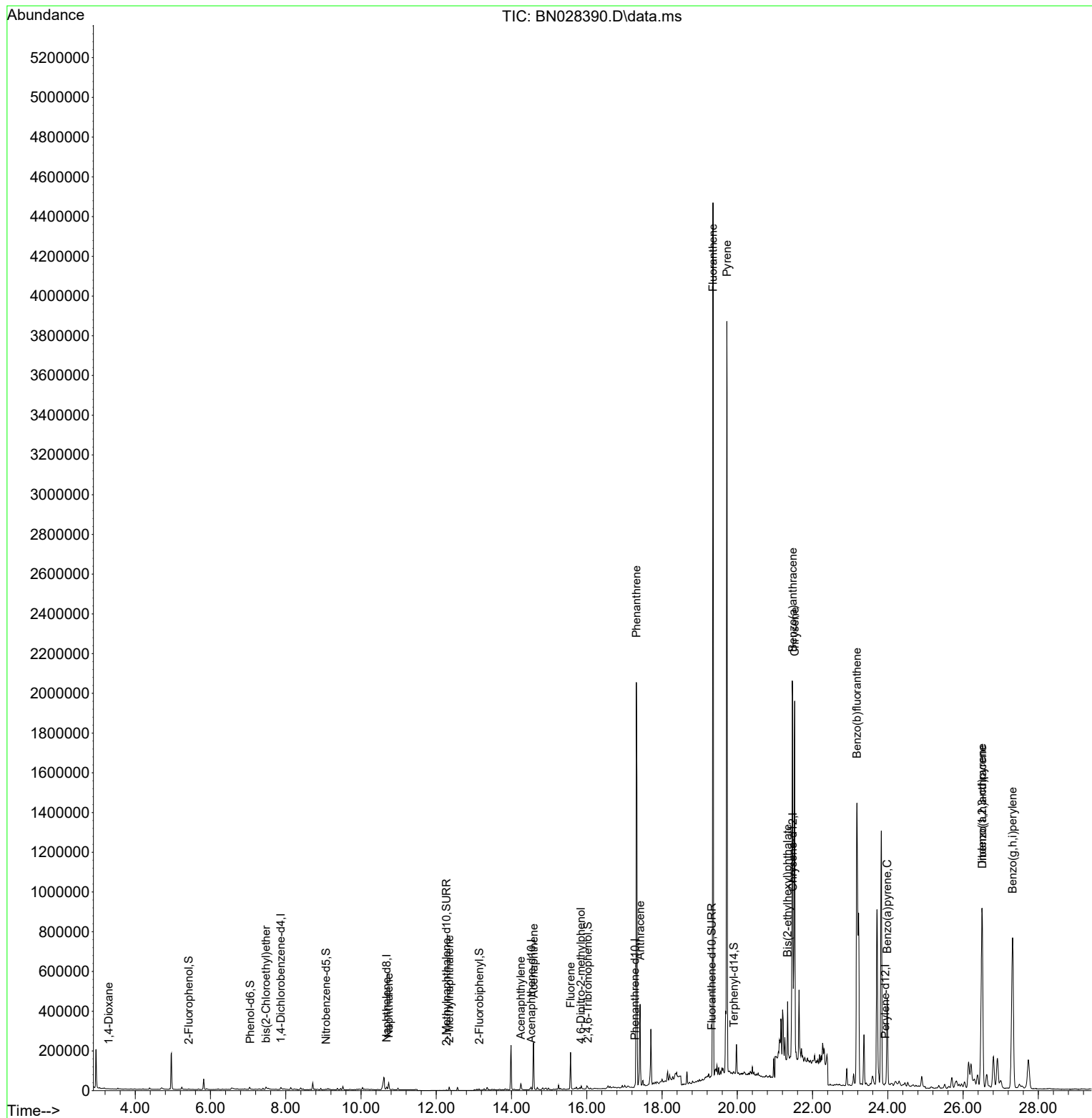
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.871	152	4664	0.400	ng	0.00
7) Naphthalene-d8	10.682	136	15681	0.400	ng	#-0.02
13) Acenaphthene-d10	14.523	164	8365	0.400	ng	-0.01
19) Phenanthrene-d10	17.282	188	13366	0.400	ng	#-0.01
29) Chrysene-d12	21.480	240	14193	0.400	ng	# 0.00
35) Perylene-d12	23.931	264	16772	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.423	112	2206	0.152	ng	0.00
5) Phenol-d6	7.055	99	3139	0.176	ng	0.00
8) Nitrobenzene-d5	9.070	82	3112	0.224	ng	-0.03
11) 2-Methylnaphthalene-d10	12.272	152	3729	0.158	ng	-0.02
14) 2,4,6-Tribromophenol	16.028	330	600	0.147	ng	-0.04
15) 2-Fluorobiphenyl	13.144	172	4840	0.164	ng	-0.02
27) Fluoranthene-d10	19.319	212	4468	0.125	ng	0.00
31) Terphenyl-d14	19.909	244	6559	0.218	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.292	88	177	0.031	ng	# 1
6) bis(2-Chloroethyl)ether	7.474	93	438	0.032	ng	# 1
9) Naphthalene	10.735	128	42912	1.055	ng	98
12) 2-Methylnaphthalene	12.343	142	10939	0.378	ng	# 89
16) Acenaphthylene	14.245	152	43293	1.152	ng	99
17) Acenaphthene	14.587	154	128035	5.406	ng	99
18) Fluorene	15.569	166	119137	3.821	ng	99
20) 4,6-Dinitro-2-methylph...	15.842	198	28	0.212	ng	# 1
25) Phenanthrene	17.319	178	2187182	59.781	ng	100
26) Anthracene	17.418	178	441739	12.641	ng	# 94
28) Fluoranthene	19.356	202	3888718	84.604	ng	99
30) Pyrene	19.723	202	3440589	70.844	ng	98
32) Benzo(a)anthracene	21.471	228	1807775	35.854	ng	98
33) Chrysene	21.524	228	1688324	34.986	ng	96
34) Bis(2-ethylhexyl)phtha...	21.336	149	225439	5.853	ng	# 98
36) Indeno(1,2,3-cd)pyrene	26.504	276	1629359	24.096	ng	96
37) Benzo(b)fluoranthene	23.180	252	2612908	49.841	ng	# 89
39) Benzo(a)pyrene	23.984	252	590192	11.317	ng	97
40) Dibenzo(a,h)anthracene	26.510	278	366883	6.683	ng	97
41) Benzo(g,h,i)perylene	27.314	276	1721083	30.366	ng	95

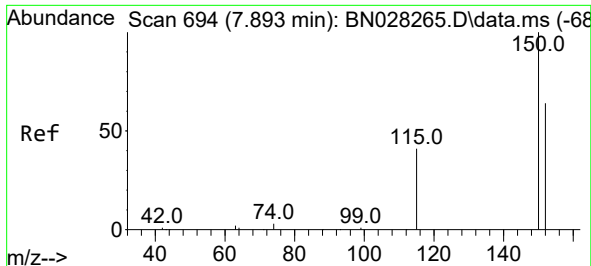
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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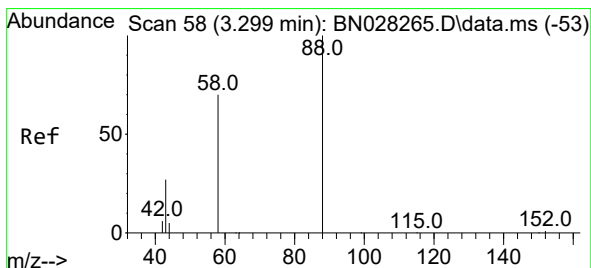
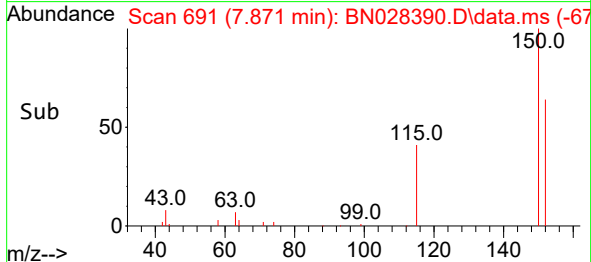
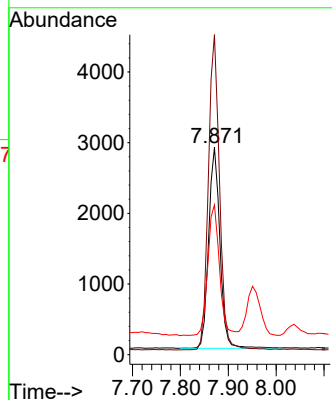
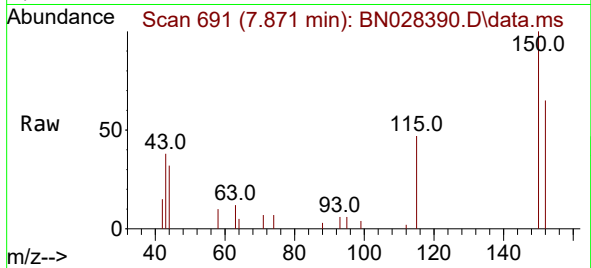




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.871 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN028390.D
 Acq: 25 Oct 2023 00:50

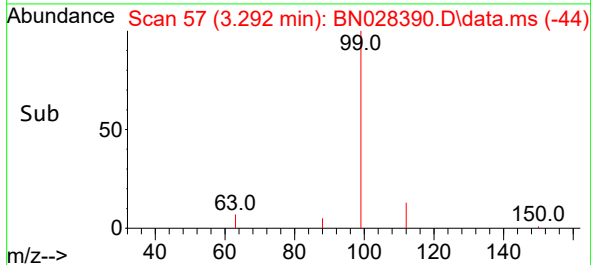
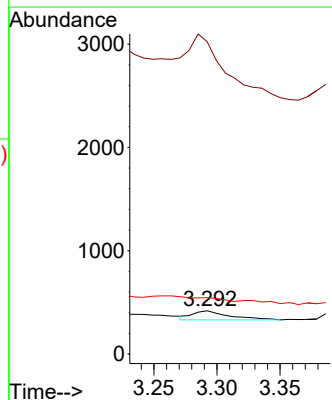
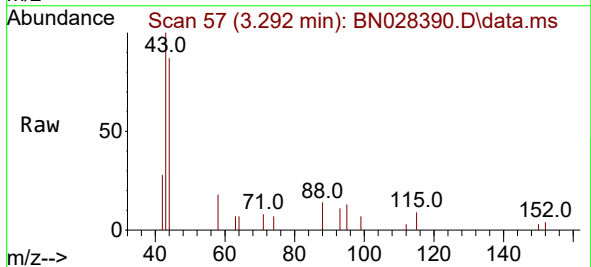
Instrument :
 BNA_N
 ClientSampleId :
 A-4(0-2)

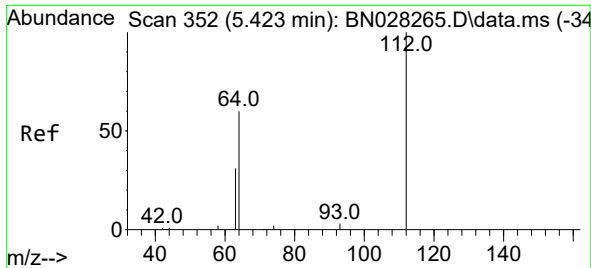
Tgt Ion:152 Resp: 4664
 Ion Ratio Lower Upper
 152 100
 150 154.5 121.6 182.4
 115 72.3 54.3 81.5



#2
 1,4-Dioxane
 Concen: 0.031 ng
 RT: 3.292 min Scan# 57
 Delta R.T. -0.007 min
 Lab File: BN028390.D
 Acq: 25 Oct 2023 00:50

Tgt Ion: 88 Resp: 177
 Ion Ratio Lower Upper
 88 100
 43 769.5 26.6 39.8#
 58 0.0 55.4 83.0#

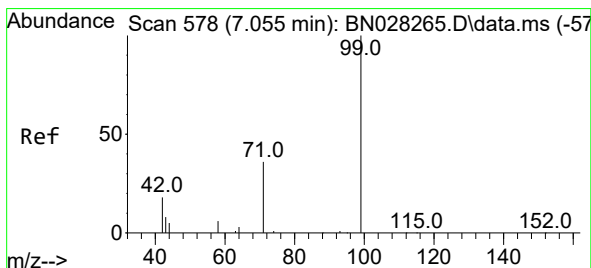
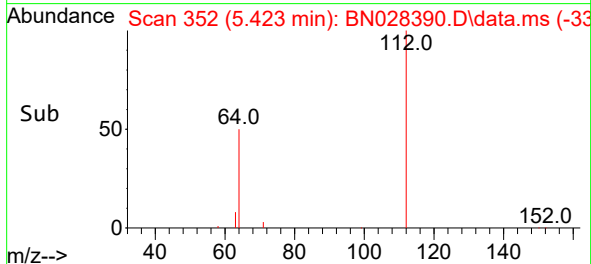
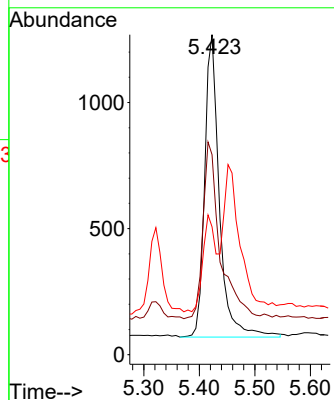
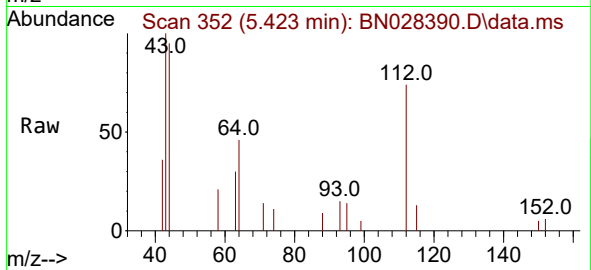




#4
2-Fluorophenol
Concen: 0.152 ng
RT: 5.423 min Scan# 352
Delta R.T. -0.007 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

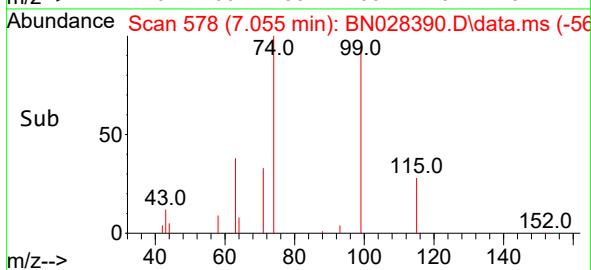
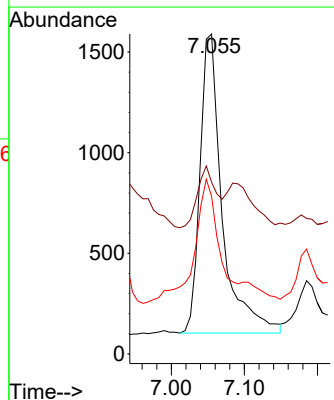
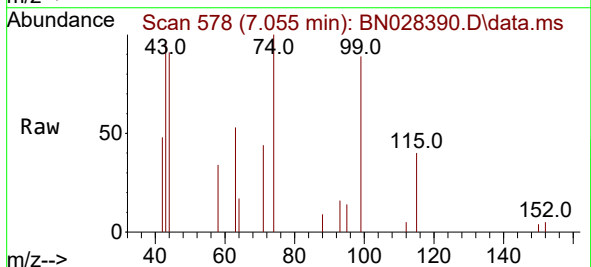
Instrument :
BNA_N
ClientSampleId :
A-4(0-2)

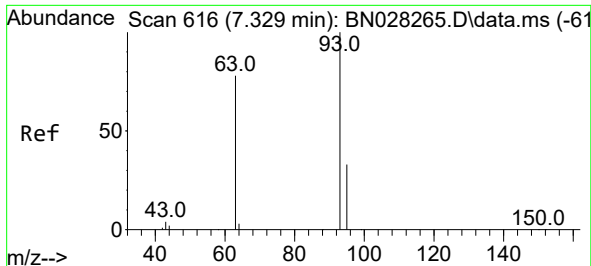
Tgt Ion:	112	Resp:	2206
Ion	Ratio	Lower	Upper
112	100		
64	67.7	46.9	70.3
63	26.3	25.0	37.4



#5
Phenol-d6
Concen: 0.176 ng
RT: 7.055 min Scan# 578
Delta R.T. 0.000 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

Tgt Ion:	99	Resp:	3139
Ion	Ratio	Lower	Upper
99	100		
42	17.6	15.9	23.9
71	53.5	28.6	42.8

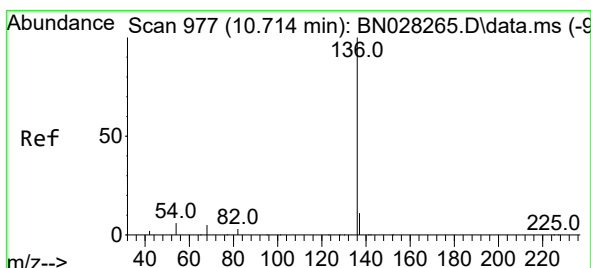
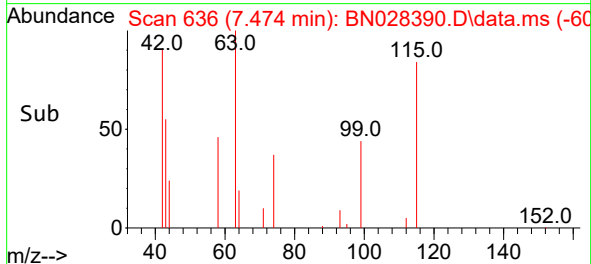
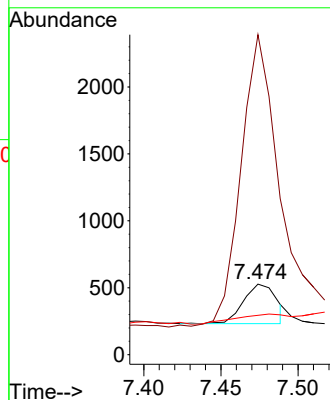
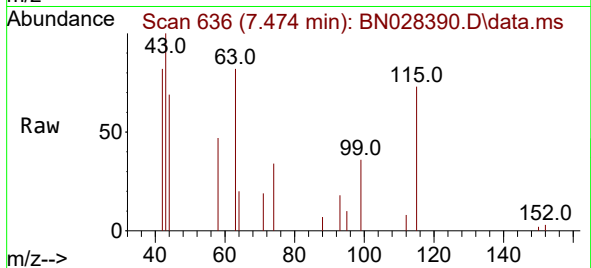




#6
bis(2-Chloroethyl)ether
Concen: 0.032 ng
RT: 7.474 min Scan# 616
Delta R.T. 0.152 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

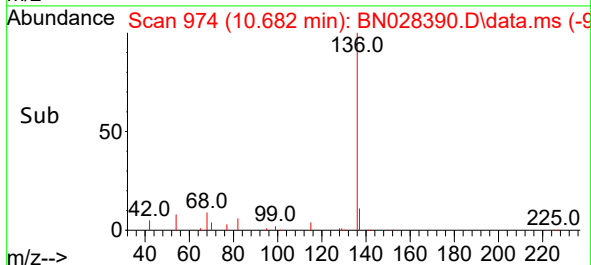
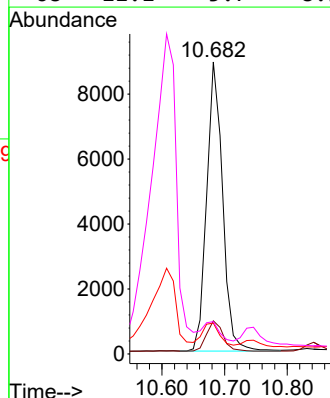
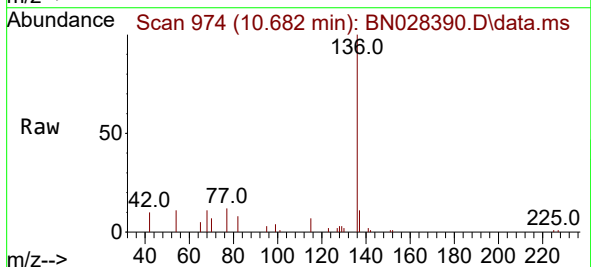
Instrument :
BNA_N
ClientSampleId :
A-4(0-2)

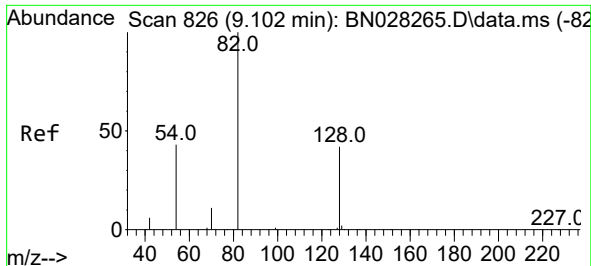
Tgt Ion: 93 Resp: 438
Ion Ratio Lower Upper
93 100
63 753.7 62.6 93.8#
95 35.6 27.2 40.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

Tgt Ion:136 Resp: 15681
Ion Ratio Lower Upper
136 100
137 11.3 9.8 14.8
54 10.6 6.2 9.4#
68 11.1 5.7 8.5#

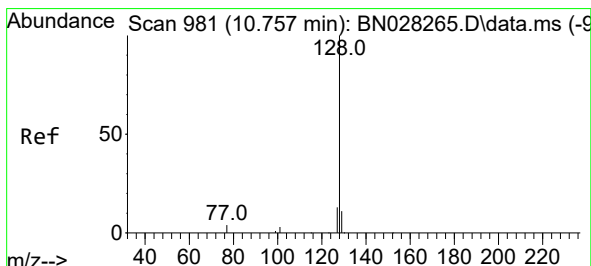
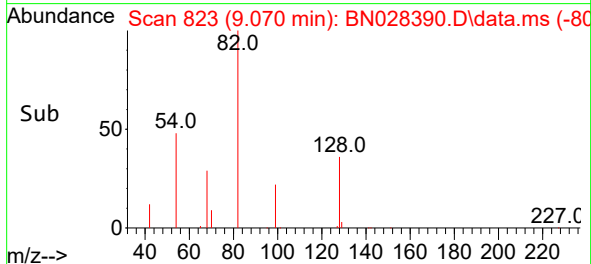
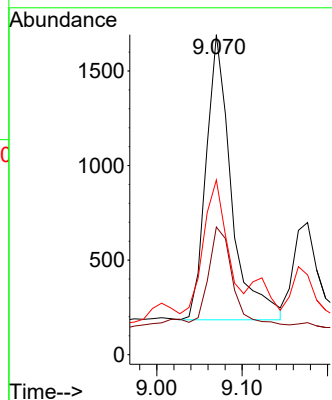
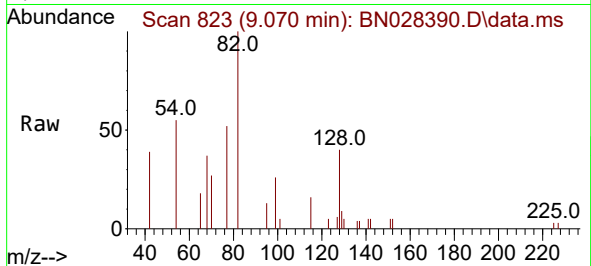




#8
Nitrobenzene-d5
Concen: 0.224 ng
RT: 9.070 min Scan# 81
Delta R.T. -0.032 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

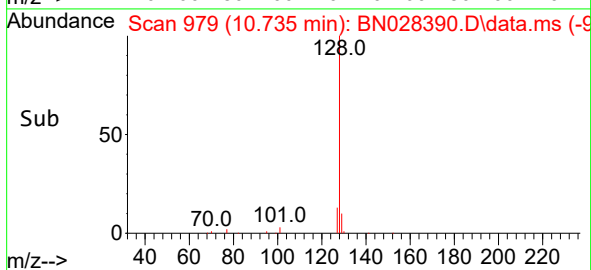
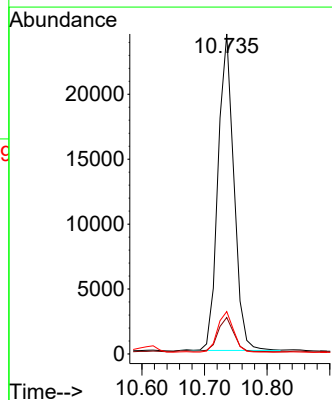
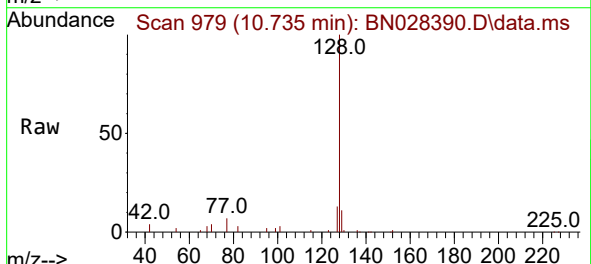
Instrument :
BNA_N
ClientSampleId :
A-4(0-2)

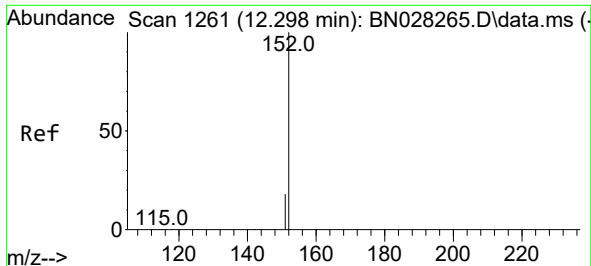
Tgt Ion: 82 Resp: 3112
Ion Ratio Lower Upper
82 100
128 39.9 36.8 55.2
54 54.6 37.4 56.2



#9
Naphthalene
Concen: 1.055 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.021 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

Tgt Ion: 128 Resp: 42912
Ion Ratio Lower Upper
128 100
129 11.4 9.8 14.6
127 13.3 11.4 17.0





#11

2-Methylnaphthalene-d10

Concen: 0.158 ng

RT: 12.272 min Scan# 11

Delta R.T. -0.022 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

Instrument :

BNA_N

ClientSampleId :

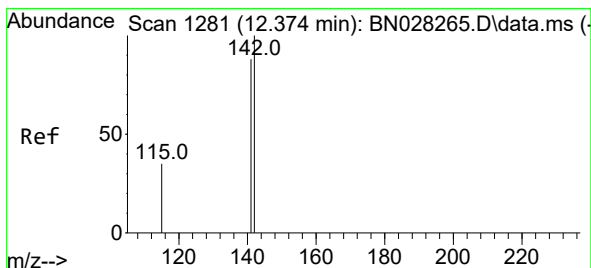
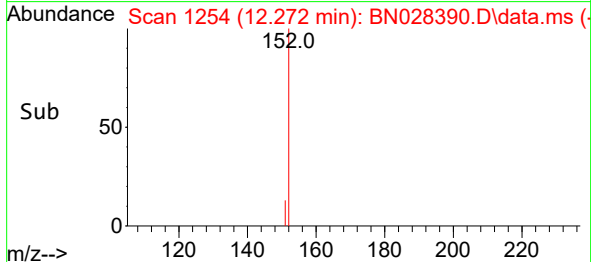
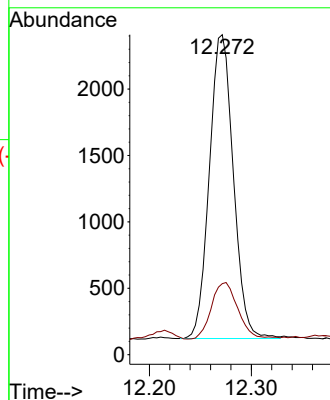
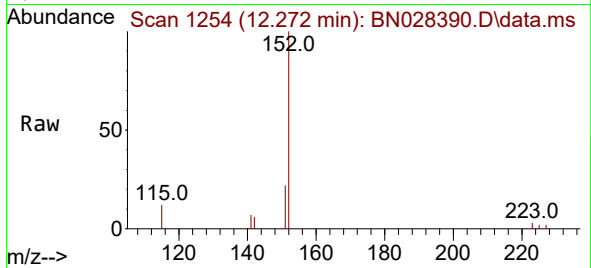
A-4(0-2)

Tgt Ion:152 Resp: 3729

Ion Ratio Lower Upper

152 100

151 20.9 16.1 24.1



#12

2-Methylnaphthalene

Concen: 0.378 ng

RT: 12.343 min Scan# 1273

Delta R.T. -0.026 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

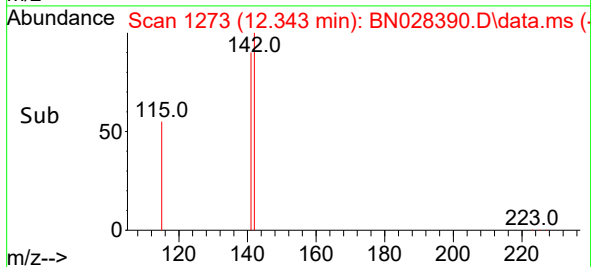
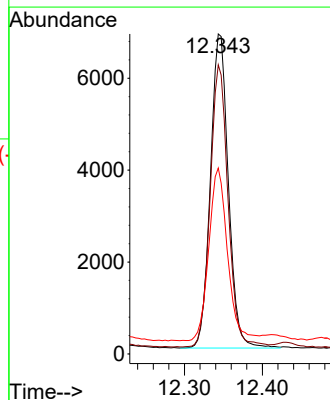
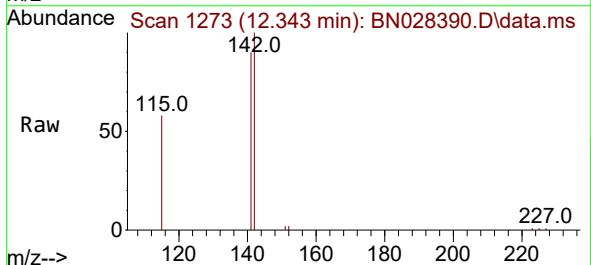
Tgt Ion:142 Resp: 10939

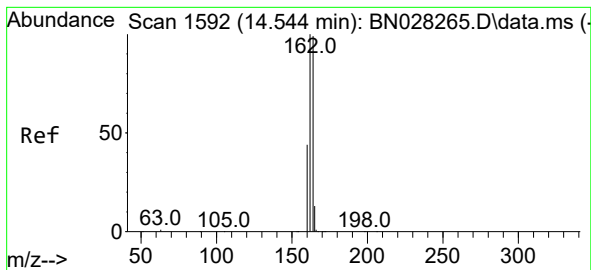
Ion Ratio Lower Upper

142 100

141 90.3 71.1 106.7

115 58.1 29.9 44.9#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.523 min Scan# 1590

Delta R.T. -0.011 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

Instrument :

BNA_N

ClientSampleId :

A-4(0-2)

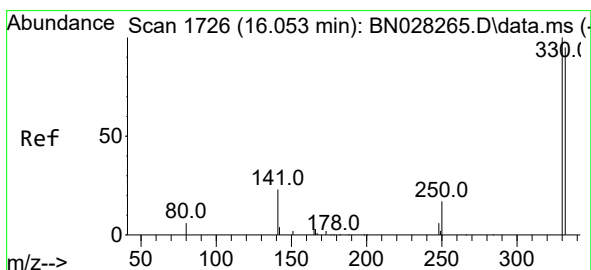
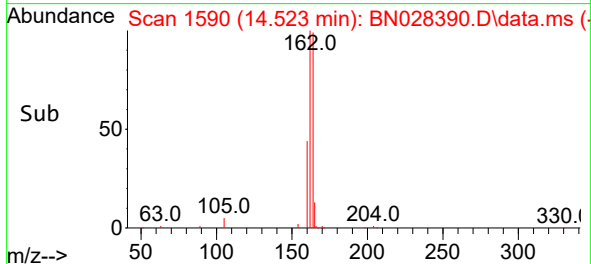
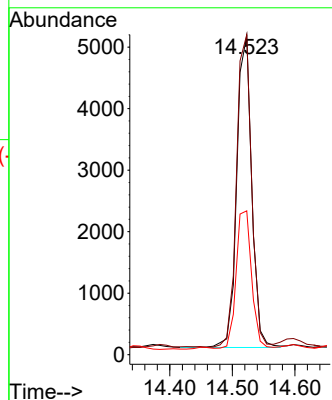
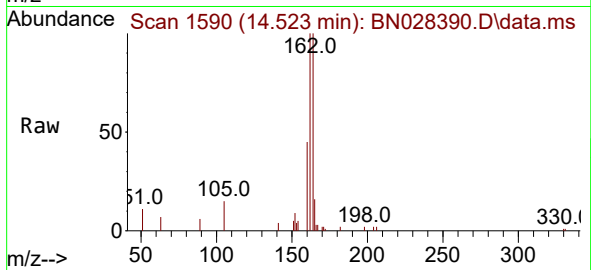
Tgt Ion:164 Resp: 8365

Ion Ratio Lower Upper

164 100

162 100.3 81.1 121.7

160 45.1 36.6 54.8



#14

2,4,6-Tribromophenol

Concen: 0.147 ng

RT: 16.028 min Scan# 1724

Delta R.T. -0.037 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

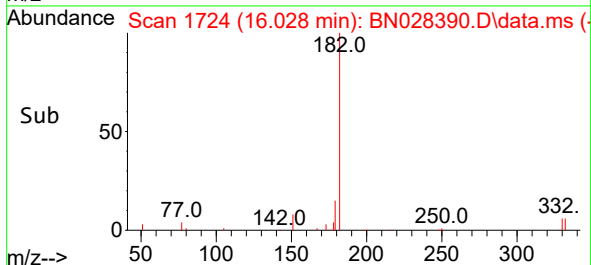
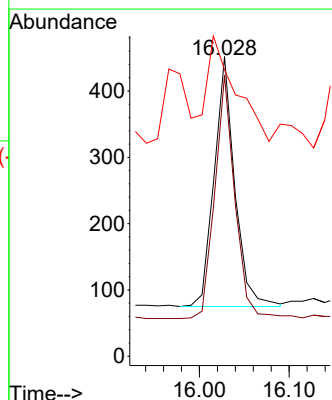
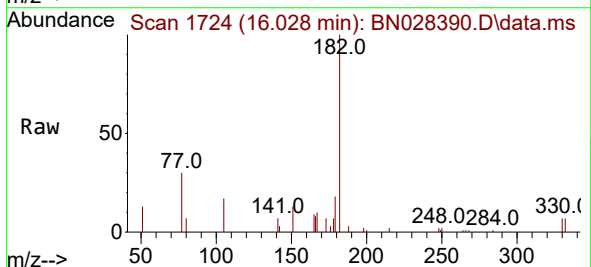
Tgt Ion:330 Resp: 600

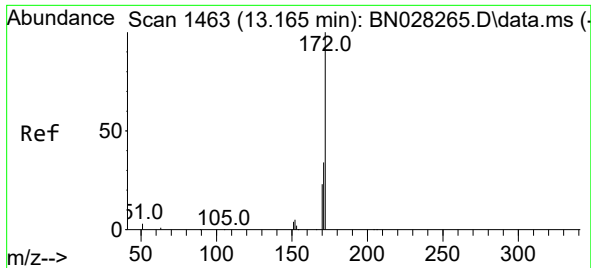
Ion Ratio Lower Upper

330 100

332 95.3 74.1 111.1

141 59.0 32.1 48.1#

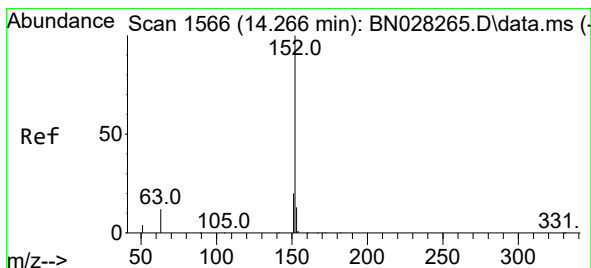
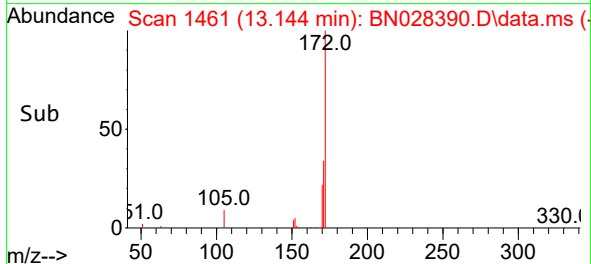
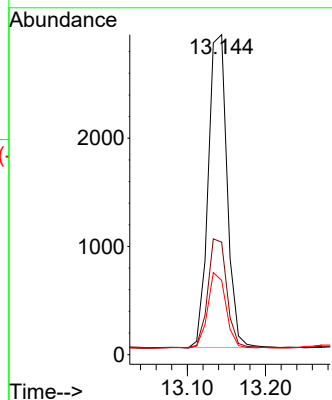
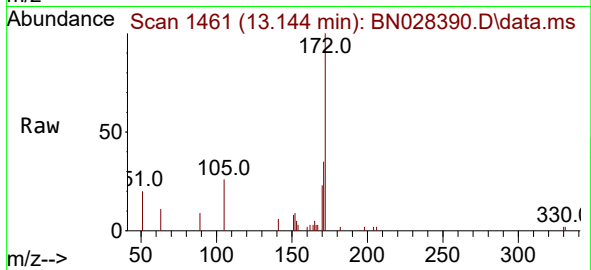




#15
2-Fluorobiphenyl
Concen: 0.164 ng
RT: 13.144 min Scan# 1461
Delta R.T. -0.021 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

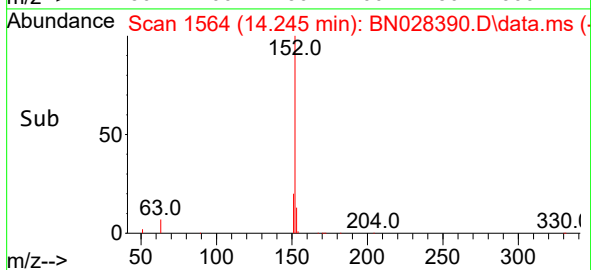
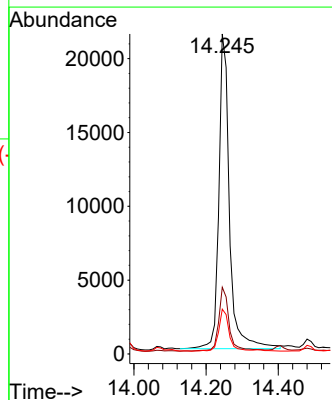
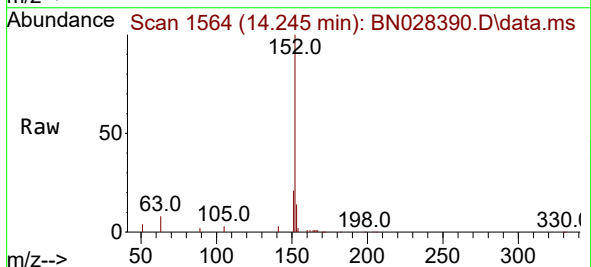
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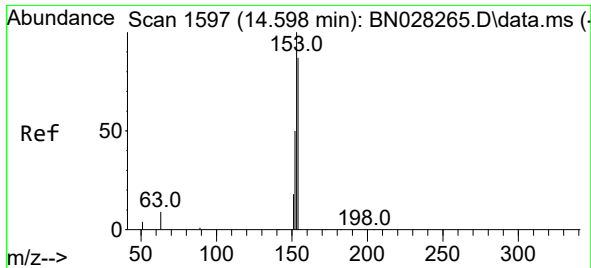
Tgt Ion:172 Resp: 4840
Ion Ratio Lower Upper
172 100
171 35.1 28.3 42.5
170 23.2 18.7 28.1



#16
Acenaphthylene
Concen: 1.152 ng
RT: 14.245 min Scan# 1564
Delta R.T. -0.011 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

Tgt Ion:152 Resp: 43293
Ion Ratio Lower Upper
152 100
151 20.3 15.6 23.4
153 12.9 10.6 16.0

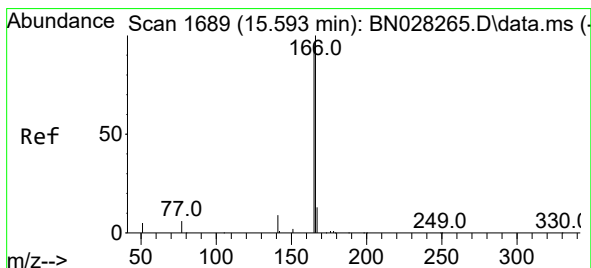
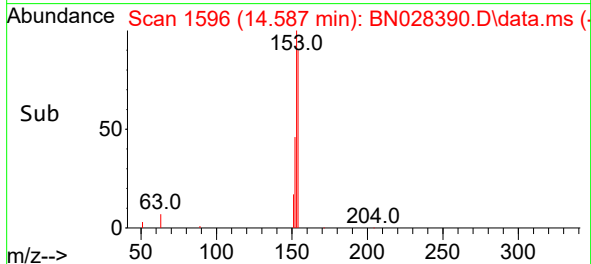
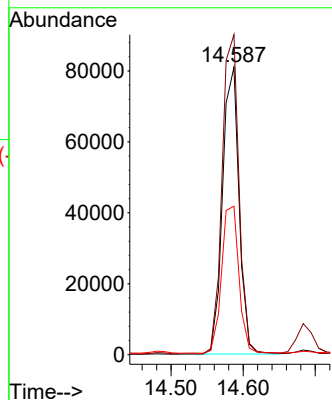
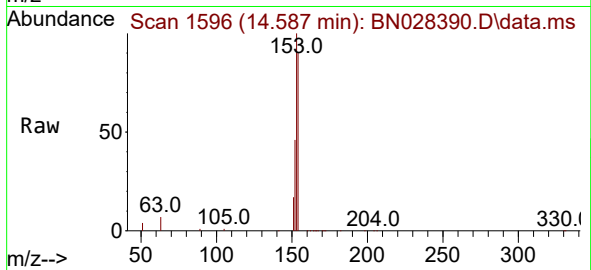




#17
Acenaphthene
Concen: 5.406 ng
RT: 14.587 min Scan# 1596
Delta R.T. -0.011 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

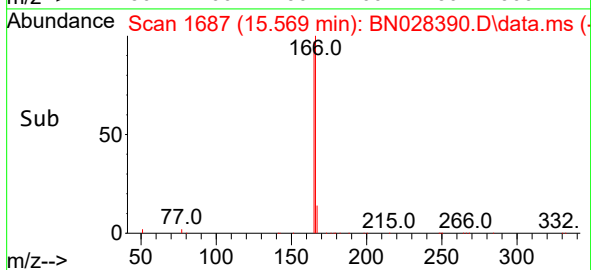
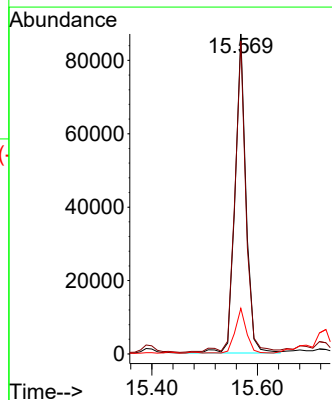
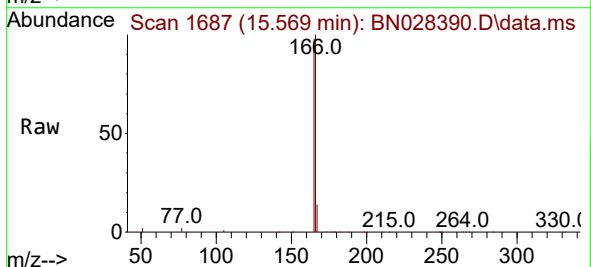
Instrument :
BNA_N
ClientSampleId :
A-4(0-2)

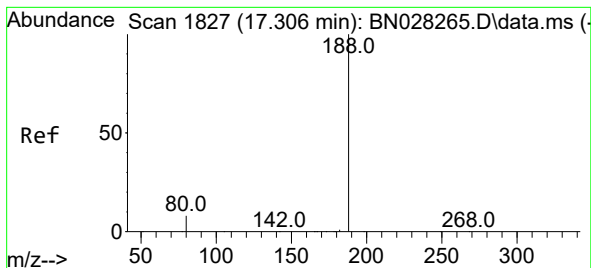
Tgt Ion:154 Resp: 128035
Ion Ratio Lower Upper
154 100
153 113.9 90.7 136.1
152 53.7 43.6 65.4



#18
Fluorene
Concen: 3.821 ng
RT: 15.569 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

Tgt Ion:166 Resp: 119137
Ion Ratio Lower Upper
166 100
165 98.5 79.3 118.9
167 14.9 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.282 min Scan# 11

Delta R.T. -0.012 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

Instrument :

BNA_N

ClientSampleId :

A-4(0-2)

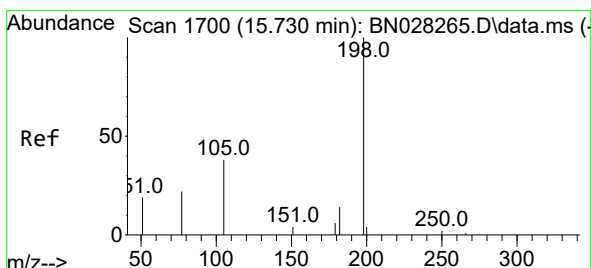
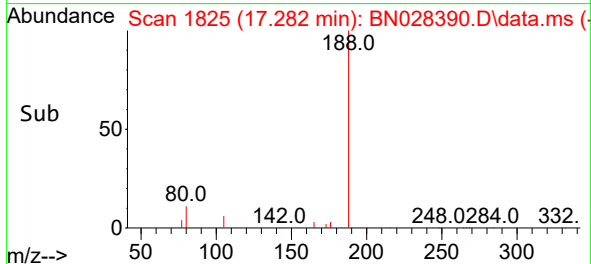
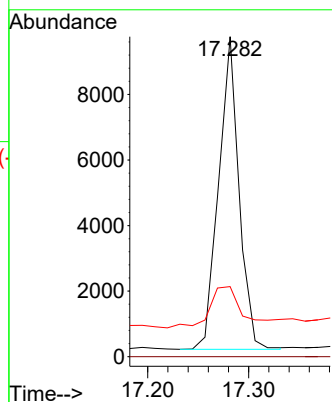
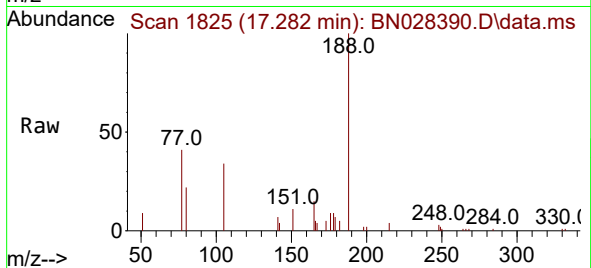
Tgt Ion:188 Resp: 13366

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 21.9 7.1 10.7#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.212 ng

RT: 15.842 min Scan# 1709

Delta R.T. 0.037 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

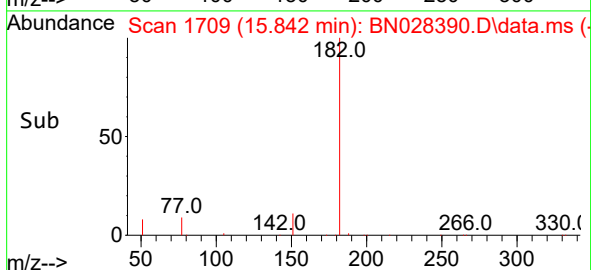
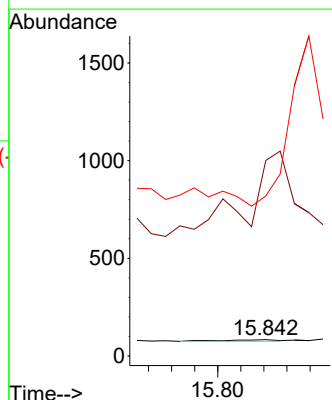
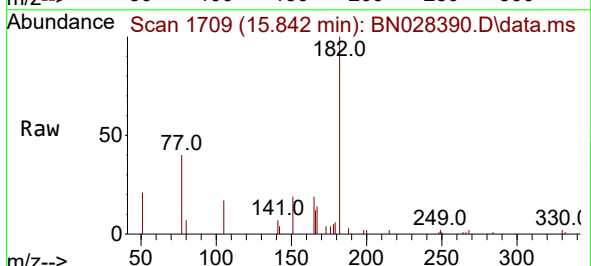
Tgt Ion:198 Resp: 28

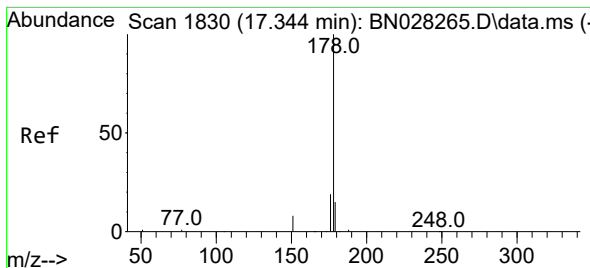
Ion Ratio Lower Upper

198 100

51 1191.7 96.1 144.1#

105 975.0 75.4 113.0#





#25

Phenanthrene

Concen: 59.781 ng

RT: 17.319 min Scan# 1828

Delta R.T. -0.012 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

Instrument :

BNA_N

ClientSampleId :

A-4(0-2)

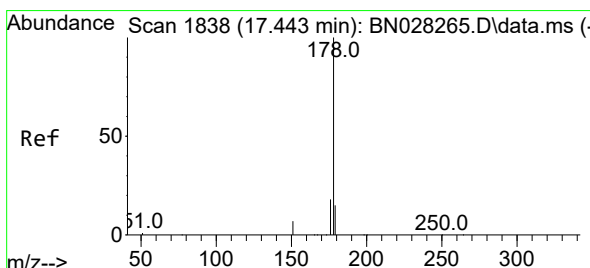
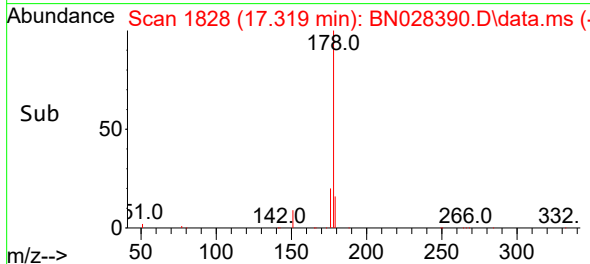
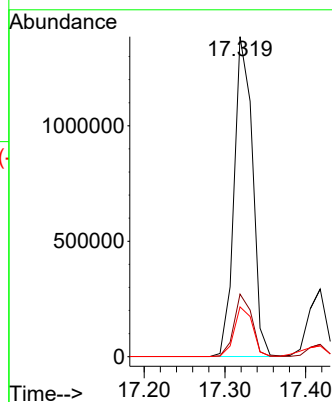
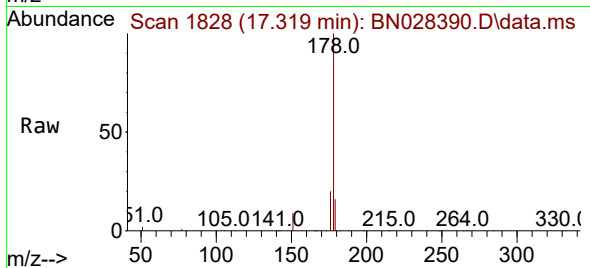
Tgt Ion:178 Resp: 2187182

Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

179 15.6 12.5 18.7



#26

Anthracene

Concen: 12.641 ng

RT: 17.418 min Scan# 1836

Delta R.T. -0.012 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

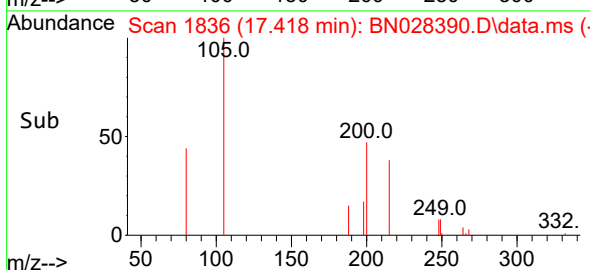
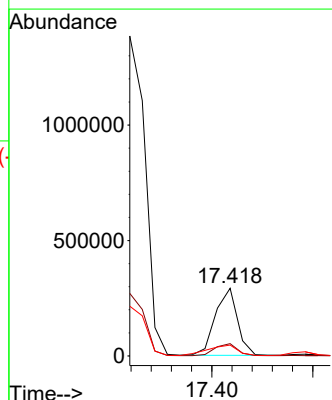
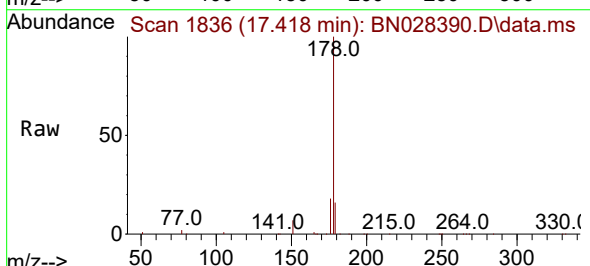
Tgt Ion:178 Resp: 441739

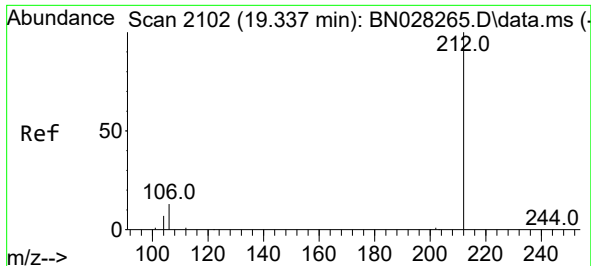
Ion Ratio Lower Upper

178 100

176 18.0 14.6 22.0

179 20.8 12.2 18.4#

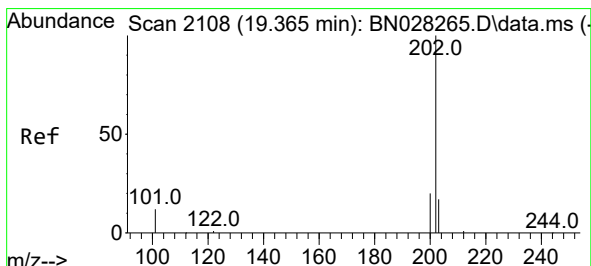
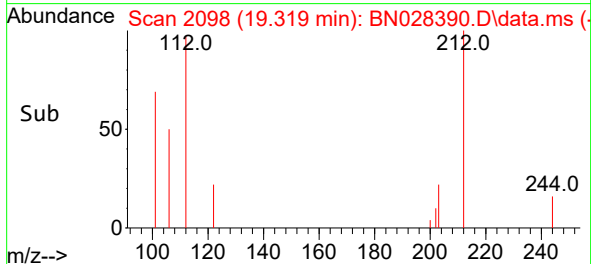
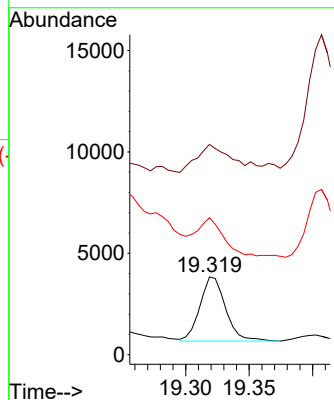
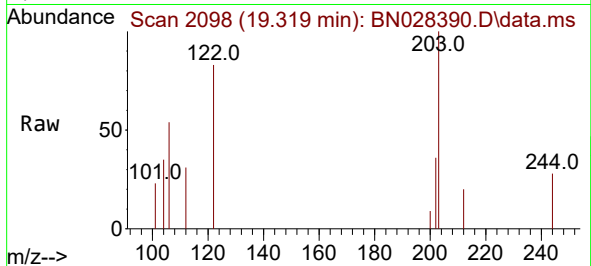




#27
Fluoranthene-d10
Concen: 0.125 ng
RT: 19.319 min Scan# 2106
Delta R.T. -0.009 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

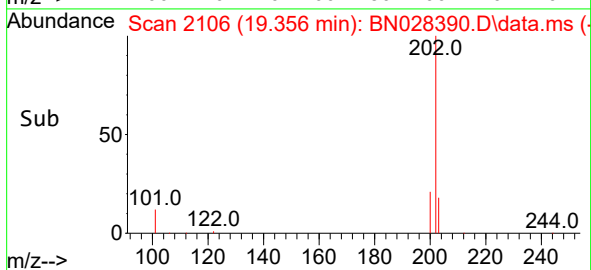
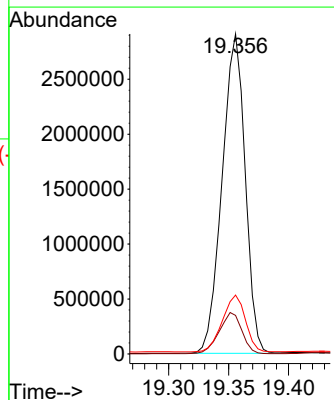
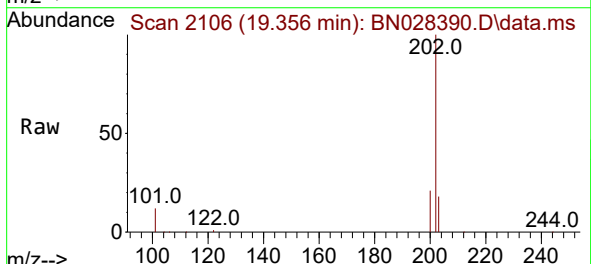
Instrument :
BNA_N
ClientSampleId :
A-4(0-2)

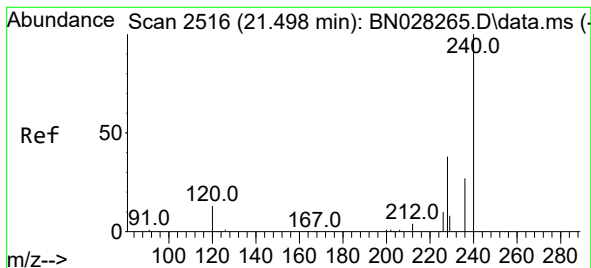
Tgt Ion:212 Resp: 4468
Ion Ratio Lower Upper
212 100
106 61.3 11.5 17.3#
104 68.4 6.7 10.1#



#28
Fluoranthene
Concen: 84.604 ng
RT: 19.356 min Scan# 2106
Delta R.T. 0.000 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

Tgt Ion:202 Resp: 3888718
Ion Ratio Lower Upper
202 100
101 12.8 10.1 15.1
203 17.7 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.480 min Scan# 211

Delta R.T. -0.009 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

Instrument :

BNA_N

ClientSampleId :

A-4(0-2)

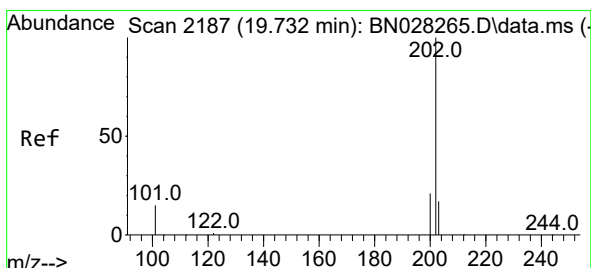
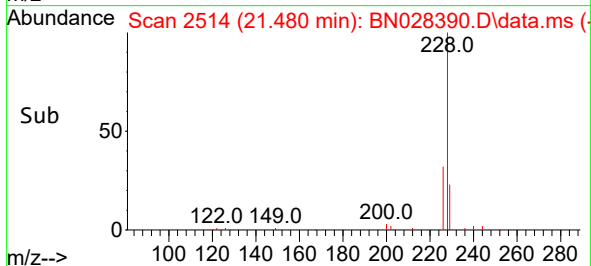
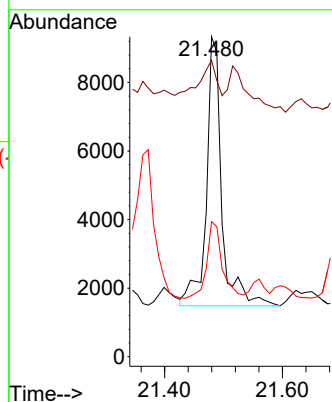
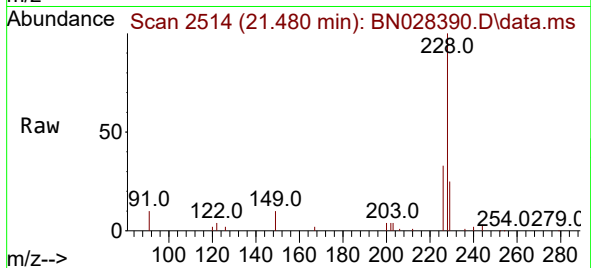
Tgt Ion:240 Resp: 14193

Ion Ratio Lower Upper

240 100

120 92.6 13.4 20.0#

236 42.2 22.7 34.1#



#30

Pyrene

Concen: 70.844 ng

RT: 19.723 min Scan# 2185

Delta R.T. -0.004 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

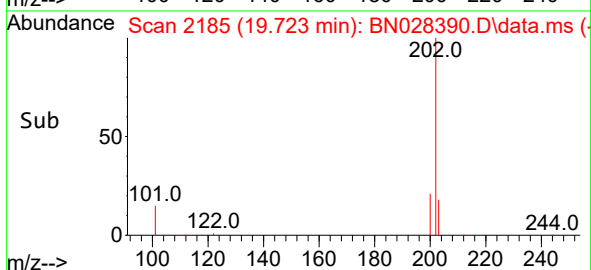
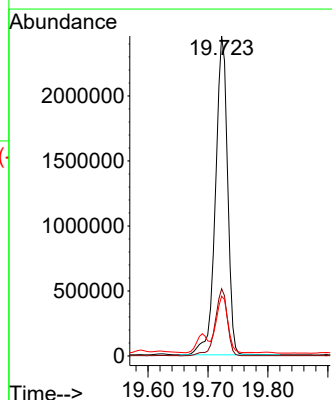
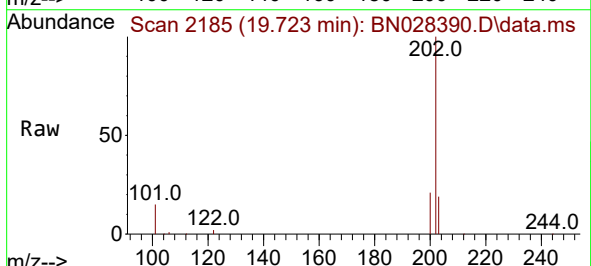
Tgt Ion:202 Resp: 3440589

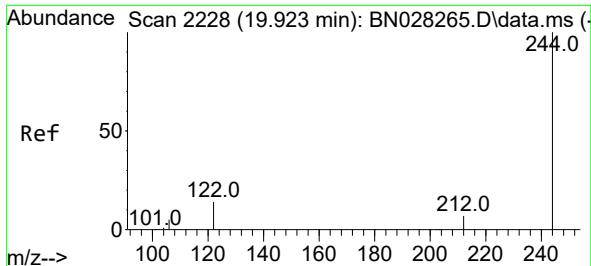
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 16.7 14.5 21.7

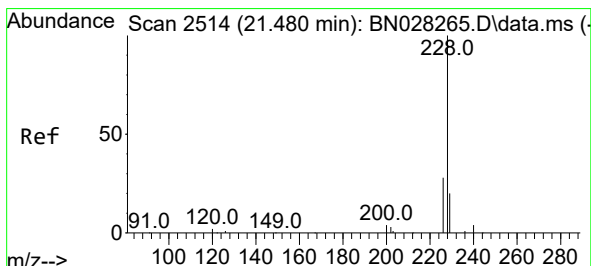
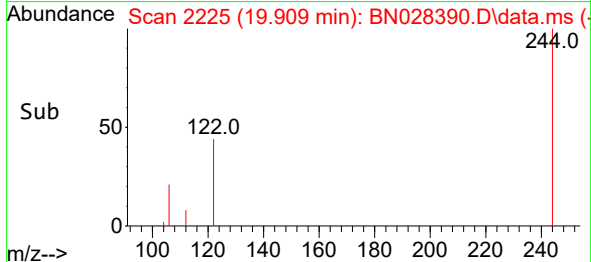
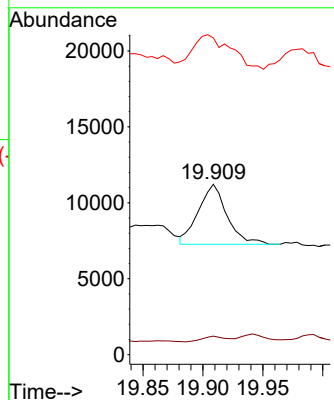
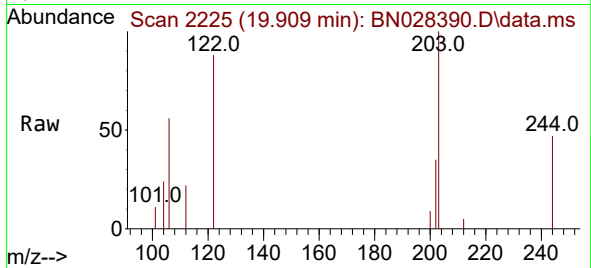




#31
 Terphenyl-d14
 Concen: 0.218 ng
 RT: 19.909 min Scan# 211
 Delta R.T. -0.009 min
 Lab File: BN028390.D
 Acq: 25 Oct 2023 00:50

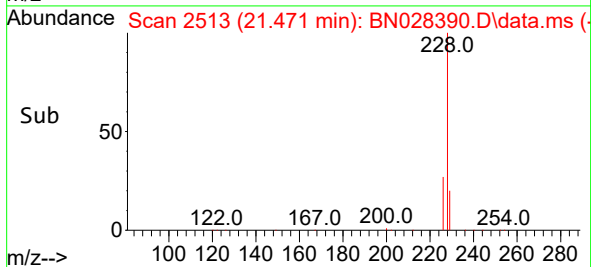
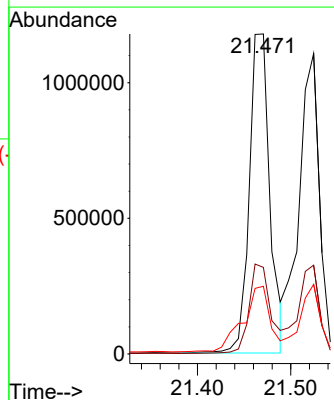
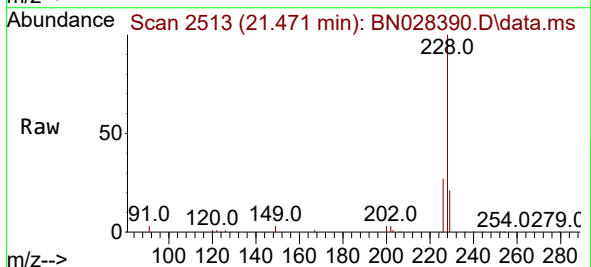
Instrument :
 BNA_N
 ClientSampleId :
 A-4(0-2)

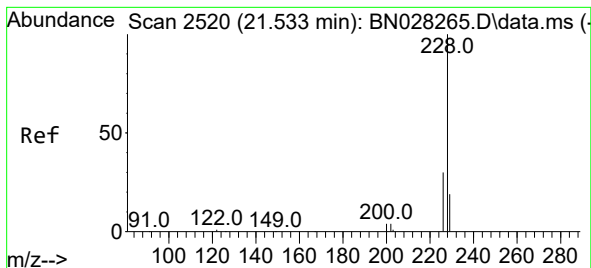
Tgt Ion:244 Resp: 6559
 Ion Ratio Lower Upper
 244 100
 212 10.9 6.6 10.0#
 122 185.9 11.7 17.5#



#32
 Benzo(a)anthracene
 Concen: 35.854 ng
 RT: 21.471 min Scan# 2513
 Delta R.T. 0.000 min
 Lab File: BN028390.D
 Acq: 25 Oct 2023 00:50

Tgt Ion:228 Resp: 1807775
 Ion Ratio Lower Upper
 228 100
 226 27.1 22.9 34.3
 229 21.2 16.6 24.8





#33

Chrysene

Concen: 34.986 ng

RT: 21.524 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

Instrument :

BNA_N

ClientSampleId :

A-4(0-2)

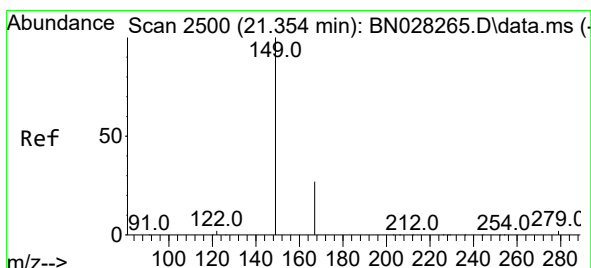
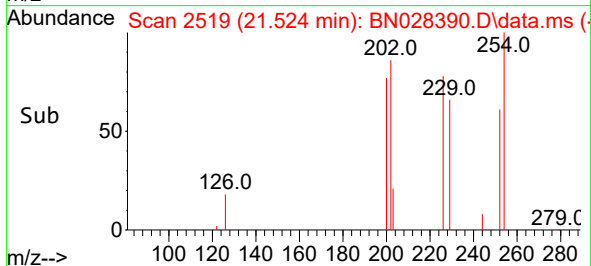
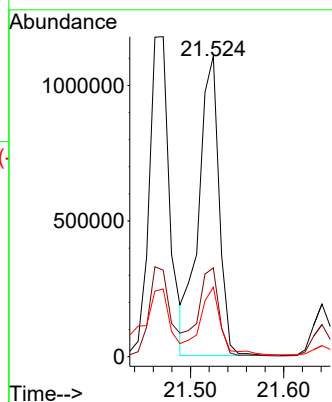
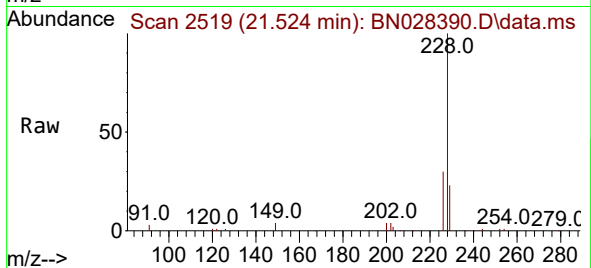
Tgt Ion:228 Resp: 1688324

Ion Ratio Lower Upper

228 100

226 29.6 25.2 37.8

229 23.2 16.6 25.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.853 ng

RT: 21.336 min Scan# 2498

Delta R.T. -0.009 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

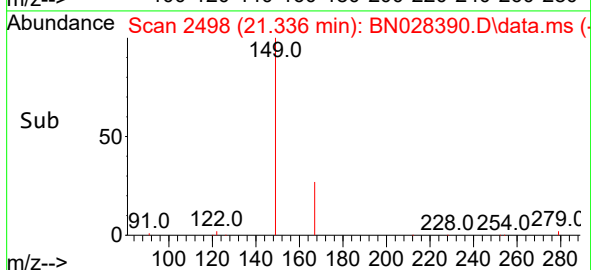
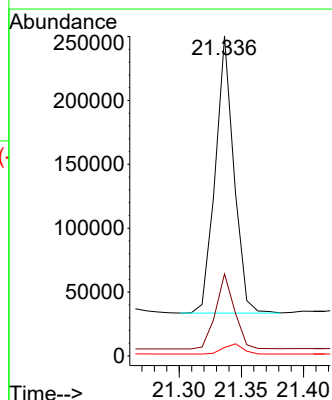
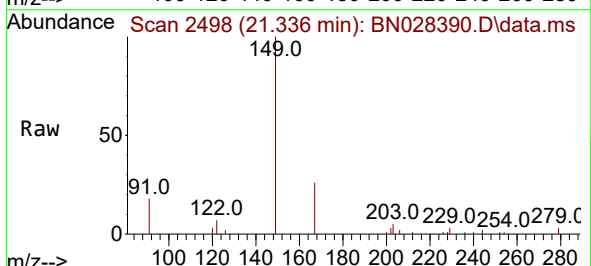
Tgt Ion:149 Resp: 225439

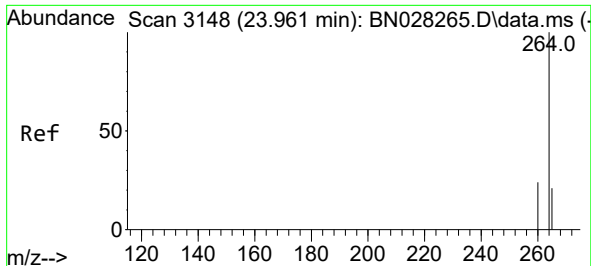
Ion Ratio Lower Upper

149 100

167 27.4 22.6 34.0

279 3.9 4.2 6.2#





#35
Perylene-d12

Concen: 0.400 ng

RT: 23.931 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

Instrument :

BNA_N

ClientSampleId :

A-4(0-2)

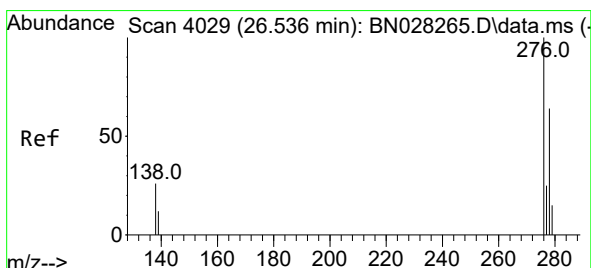
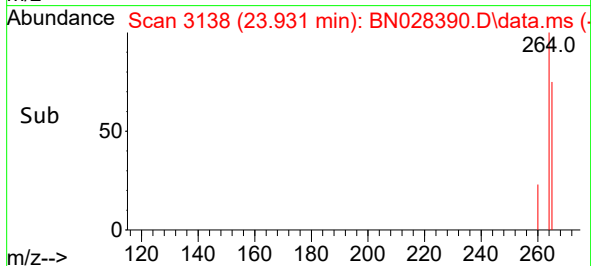
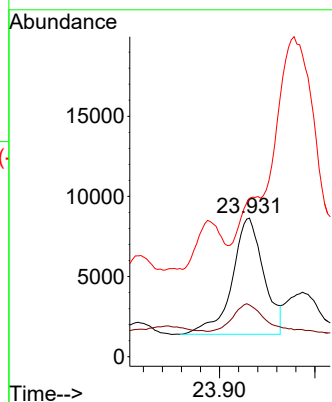
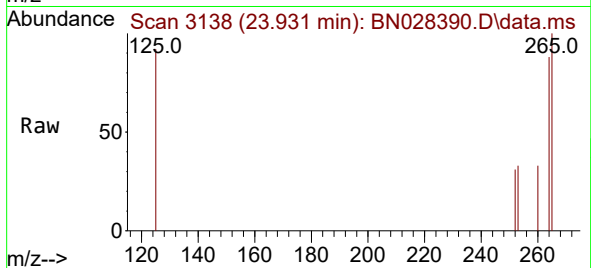
Tgt Ion:264 Resp: 16772

Ion Ratio Lower Upper

264 100

260 37.3 20.7 31.1#

265 114.2 38.3 57.5#



#36

Indeno(1,2,3-cd)pyrene

Concen: 24.096 ng

RT: 26.504 min Scan# 4018

Delta R.T. 0.000 min

Lab File: BN028390.D

Acq: 25 Oct 2023 00:50

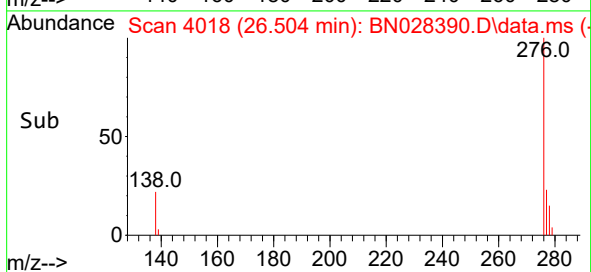
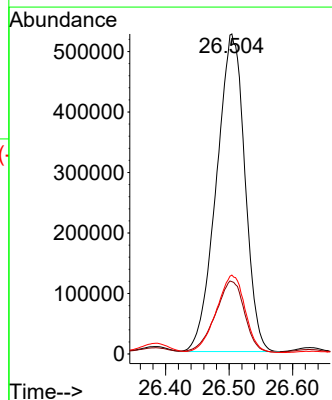
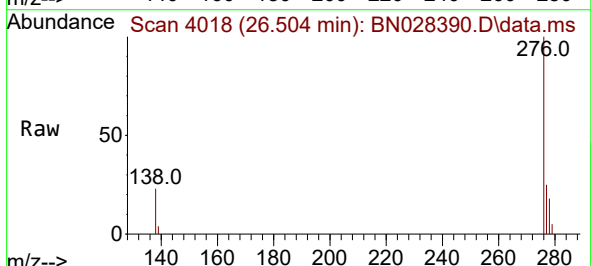
Tgt Ion:276 Resp: 1629359

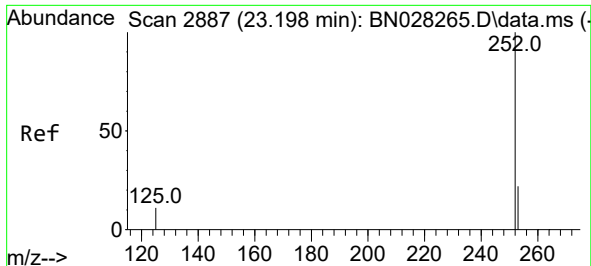
Ion Ratio Lower Upper

276 100

138 22.8 21.3 31.9

277 24.6 20.0 30.0

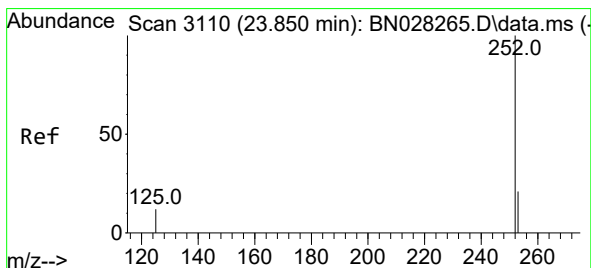
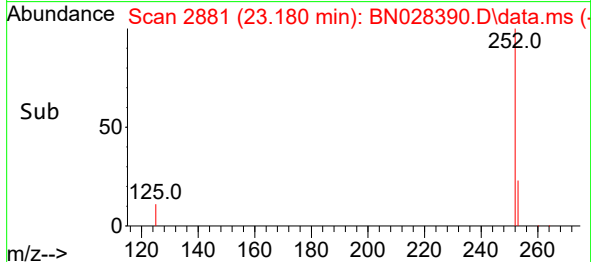
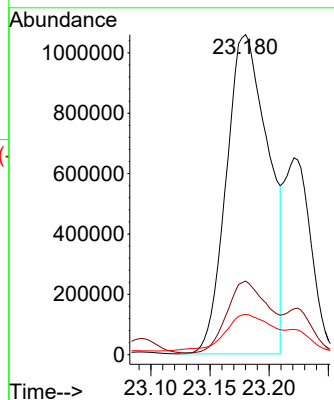
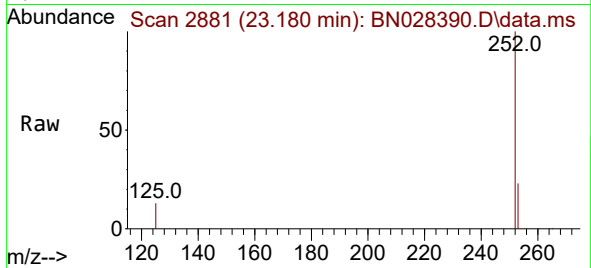




#37
Benzo(b)fluoranthene
Concen: 49.841 ng
RT: 23.180 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

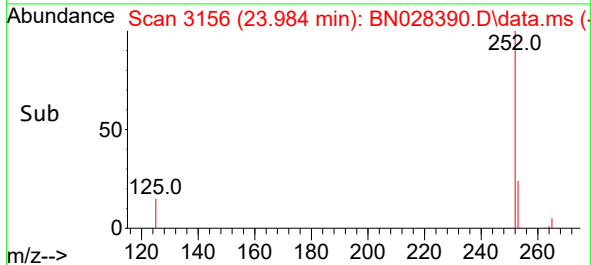
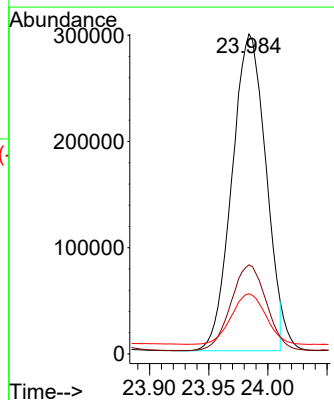
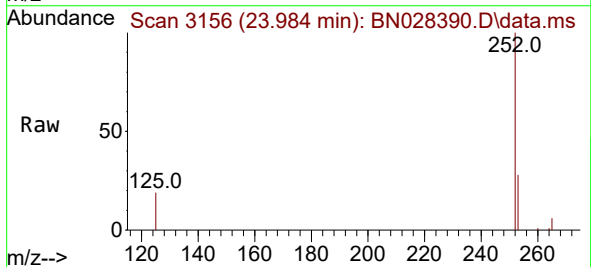
Instrument :
BNA_N
ClientSampleId :
A-4(0-2)

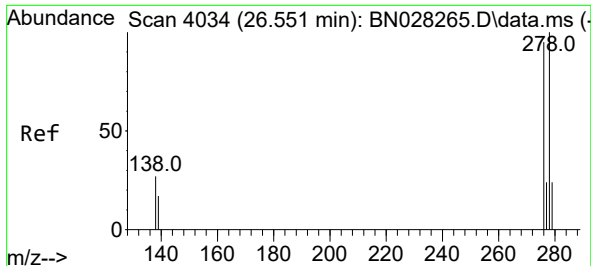
Tgt Ion:252 Resp: 2612908
Ion Ratio Lower Upper
252 100
253 23.0 21.8 32.8
125 12.5 15.6 23.4#



#39
Benzo(a)pyrene
Concen: 11.317 ng
RT: 23.984 min Scan# 3156
Delta R.T. 0.155 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

Tgt Ion:252 Resp: 590192
Ion Ratio Lower Upper
252 100
253 27.8 22.7 34.1
125 18.8 17.0 25.6

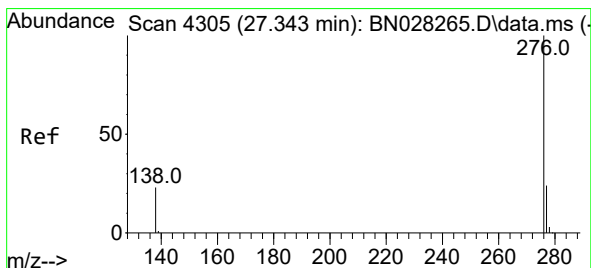
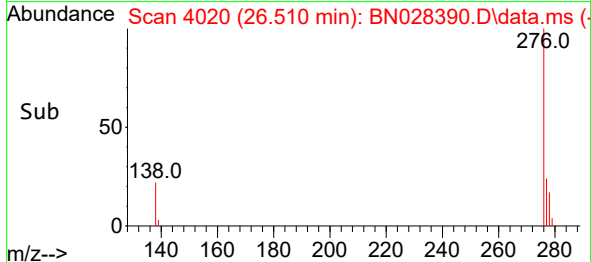
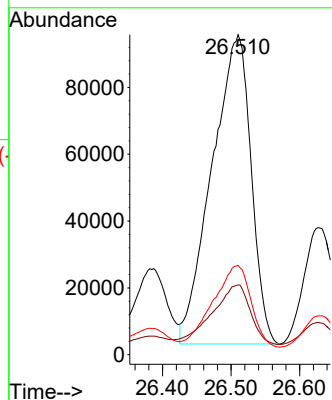
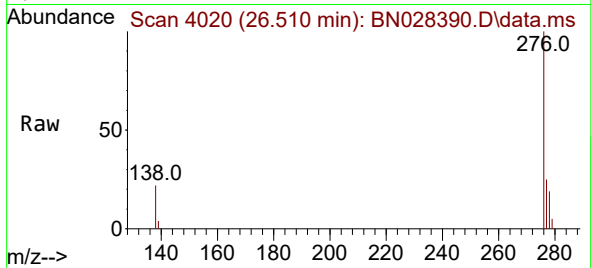




#40
Dibenzo(a,h)anthracene
Concen: 6.683 ng
RT: 26.510 min Scan# 4034
Delta R.T. -0.009 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

Instrument :
BNA_N
ClientSampleId :
A-4(0-2)

Tgt Ion:278 Resp: 366883
Ion Ratio Lower Upper
278 100
139 21.8 18.8 28.2
279 27.9 23.5 35.3



#41
Benzo(g,h,i)perylene
Concen: 30.366 ng
RT: 27.314 min Scan# 4295
Delta R.T. 0.009 min
Lab File: BN028390.D
Acq: 25 Oct 2023 00:50

Tgt Ion:276 Resp: 1721083
Ion Ratio Lower Upper
276 100
277 24.9 21.7 32.5
138 24.0 21.7 32.5

