

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101023\
 Data File : BN028206.D
 Acq On : 10 Oct 2023 20:28
 Operator : MA/JU
 Sample : 04693-04
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 S-3(0-5)

Quant Time: Oct 11 02:34:11 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN100223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 10 00:42:22 2023
 Response via : Initial Calibration

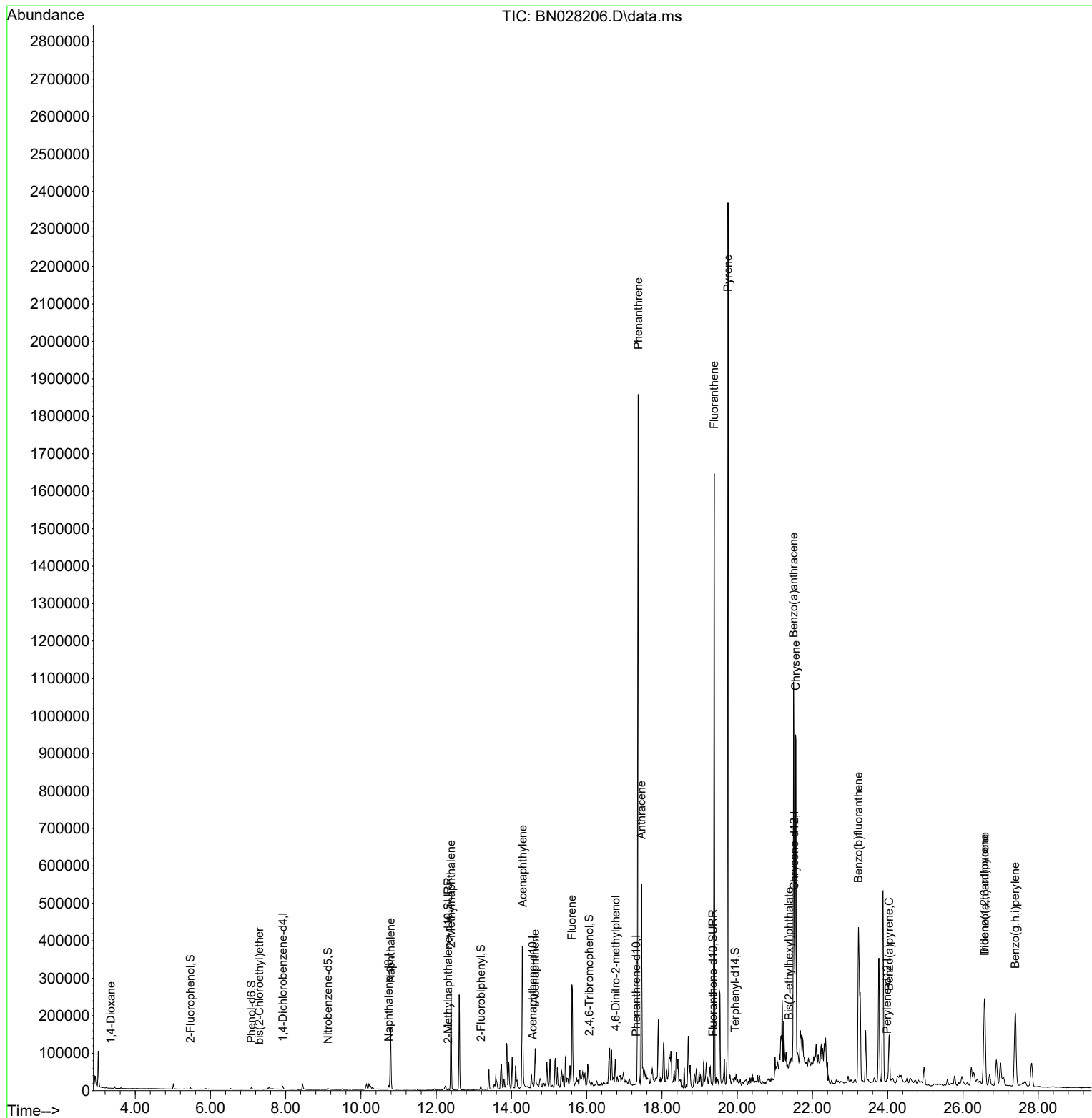
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.921	152	3887	0.400	ng	0.00
7) Naphthalene-d8	10.735	136	12261	0.400	ng	0.00
13) Acenaphthene-d10	14.566	164	7444	0.400	ng	0.00
19) Phenanthrene-d10	17.319	188	13095	0.400	ng	# 0.00
29) Chrysene-d12	21.515	240	16057	0.400	ng	# 0.00
35) Perylene-d12	23.984	264	16843	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.466	112	3926	0.339	ng	0.00
5) Phenol-d6	7.091	99	4663	0.319	ng	0.00
8) Nitrobenzene-d5	9.123	82	3518	0.337	ng	0.00
11) 2-Methylnaphthalene-d10	12.317	152	5632	0.310	ng	0.00
14) 2,4,6-Tribromophenol	16.065	330	1049	0.308	ng	-0.01
15) 2-Fluorobiphenyl	13.186	172	8188	0.305	ng	0.00
27) Fluoranthene-d10	19.356	212	10032	0.305	ng	0.00
31) Terphenyl-d14	19.941	244	10575	0.282	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.350	88	106	0.024	ng	# 1
6) bis(2-Chloroethyl)ether	7.300	93	273	0.023	ng	# 24
9) Naphthalene	10.789	128	210817	6.655	ng	98
12) 2-Methylnaphthalene	12.392	142	181908	8.208	ng	99
16) Acenaphthylene	14.298	152	486030	14.739	ng	99
17) Acenaphthene	14.630	154	55598	2.645	ng	95
18) Fluorene	15.606	166	227115	8.319	ng	# 94
20) 4,6-Dinitro-2-methylph...	16.772	198	1157	6.647	ng	# 12
25) Phenanthrene	17.368	178	1858626	52.647	ng	99
26) Anthracene	17.455	178	540613	16.201	ng	# 91
28) Fluoranthene	19.388	202	1435204	35.226	ng	99
30) Pyrene	19.755	202	2022583	34.351	ng	98
32) Benzo(a)anthracene	21.497	228	930392	17.028	ng	98
33) Chrysene	21.551	228	841378	15.979	ng	96
34) Bis(2-ethylhexyl)phtha...	21.372	149	3658	0.102	ng	# 86
36) Indeno(1,2,3-cd)pyrene	26.571	276	416485	7.351	ng	98
37) Benzo(b)fluoranthene	23.224	252	802191	14.747	ng	# 90
39) Benzo(a)pyrene	24.039	252	156773	3.048	ng	94
40) Dibenzo(a,h)anthracene	26.580	278	129389	2.792	ng	97
41) Benzo(g,h,i)perylene	27.390	276	444836	9.351	ng	96

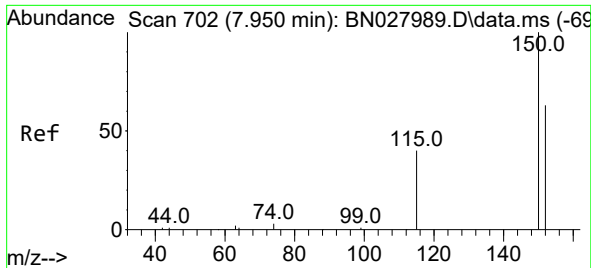
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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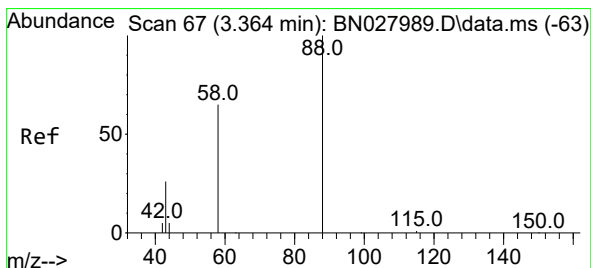
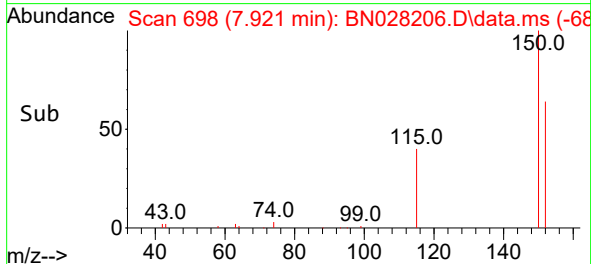
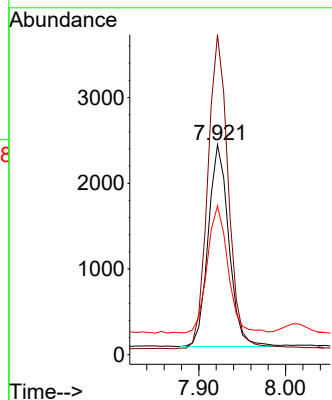
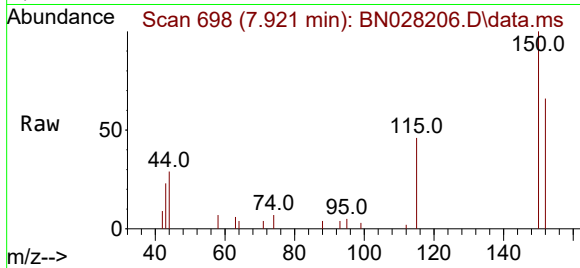




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.921 min Scan# 61
 Delta R.T. -0.001 min
 Lab File: BN028206.D
 Acq: 10 Oct 2023 20:28

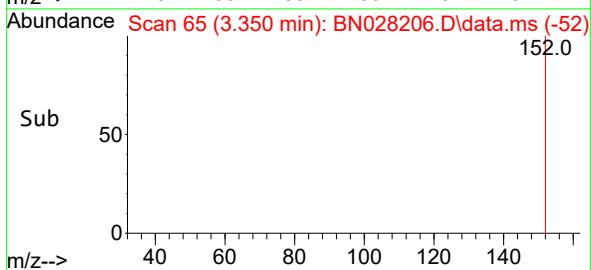
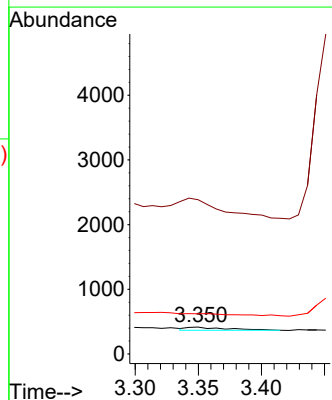
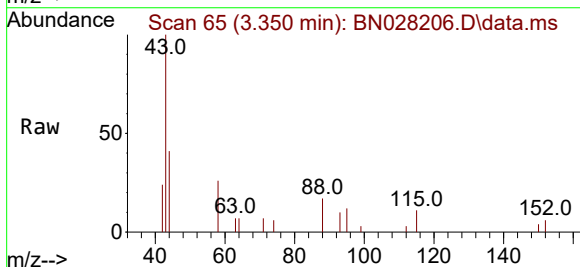
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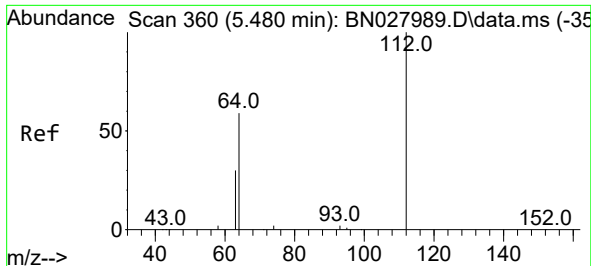
Tgt Ion:152 Resp: 3887
 Ion Ratio Lower Upper
 152 100
 150 152.4 125.6 188.4
 115 70.8 54.8 82.2



#2
 1,4-Dioxane
 Concen: 0.024 ng
 RT: 3.350 min Scan# 65
 Delta R.T. -0.007 min
 Lab File: BN028206.D
 Acq: 10 Oct 2023 20:28

Tgt Ion: 88 Resp: 106
 Ion Ratio Lower Upper
 88 100
 43 729.2 24.6 36.8#
 58 0.0 53.8 80.6#





#4

2-Fluorophenol

Concen: 0.339 ng

RT: 5.466 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

Instrument :

BNA_N

ClientSampleId :

S-3(0-5)

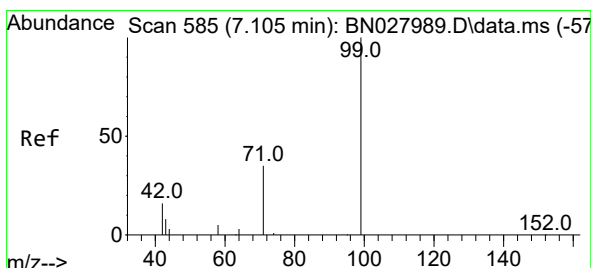
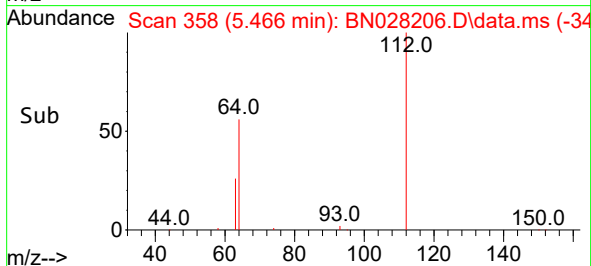
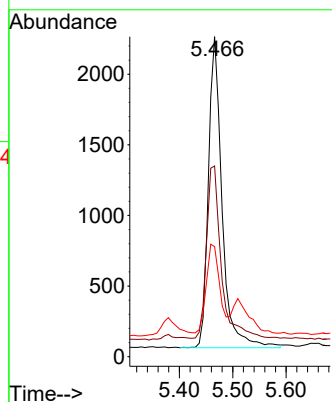
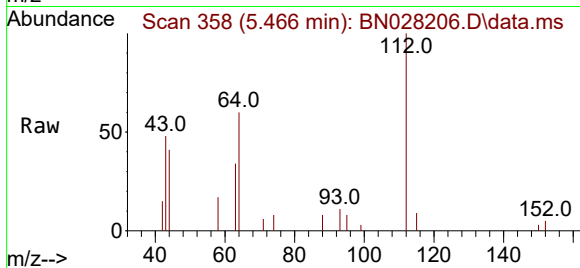
Tgt Ion:112 Resp: 3926

Ion Ratio Lower Upper

112 100

64 59.4 45.0 67.6

63 27.6 23.4 35.0



#5

Phenol-d6

Concen: 0.319 ng

RT: 7.091 min Scan# 583

Delta R.T. -0.000 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

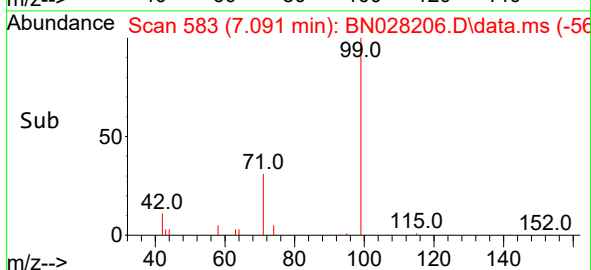
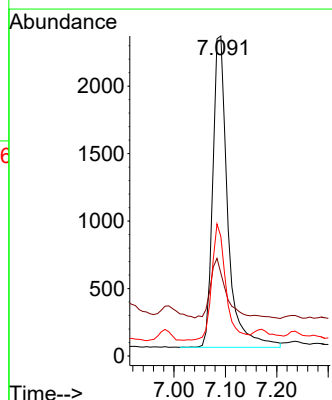
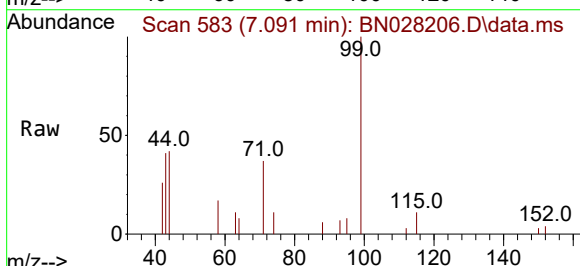
Tgt Ion: 99 Resp: 4663

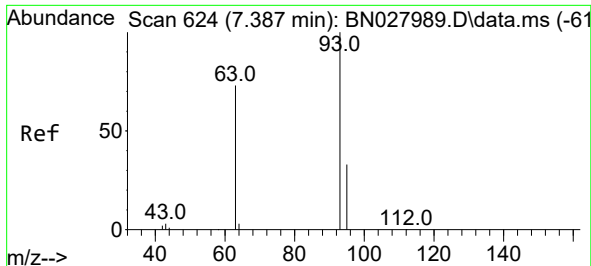
Ion Ratio Lower Upper

99 100

42 20.7 14.6 22.0

71 35.4 28.3 42.5

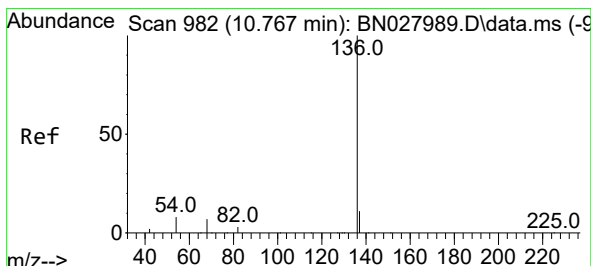
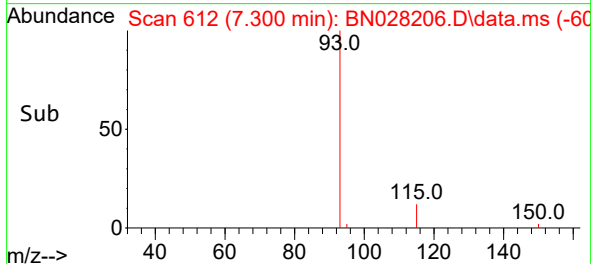
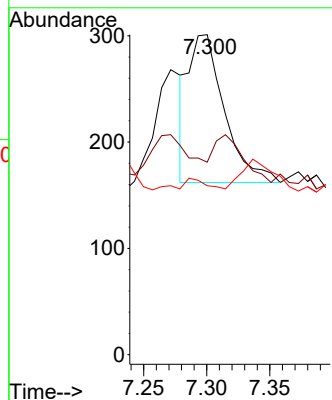
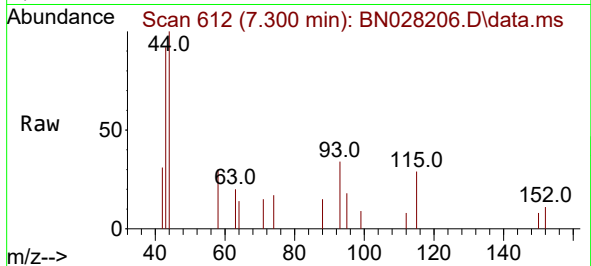




#6
bis(2-Chloroethyl)ether
Concen: 0.023 ng
RT: 7.300 min Scan# 61
Delta R.T. -0.065 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

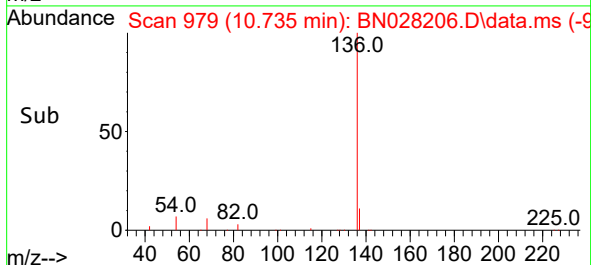
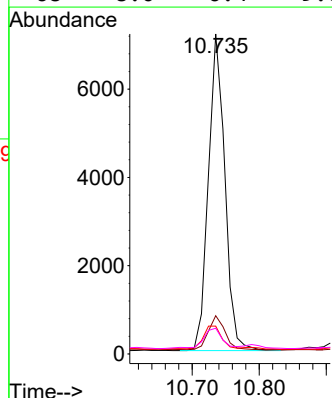
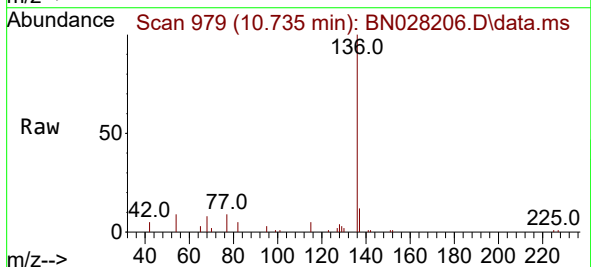
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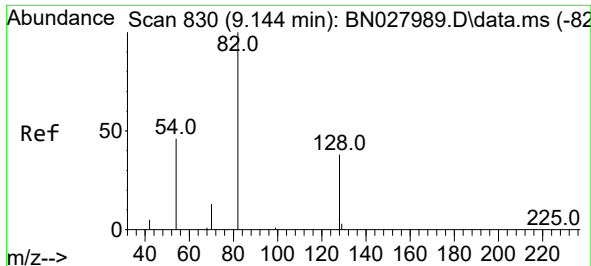
Tgt Ion: 93 Resp: 273
Ion Ratio Lower Upper
93 100
63 0.0 58.8 88.2#
95 4.0 26.6 39.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.000 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

Tgt Ion:136 Resp: 12261
Ion Ratio Lower Upper
136 100
137 11.9 9.4 14.0
54 8.7 7.0 10.6
68 8.0 6.4 9.6

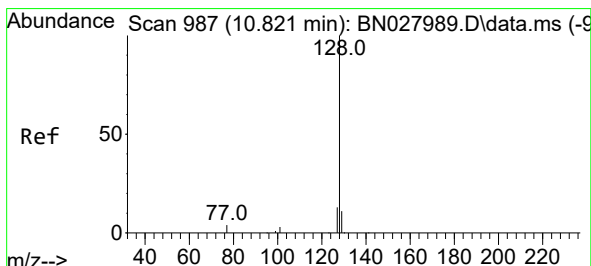
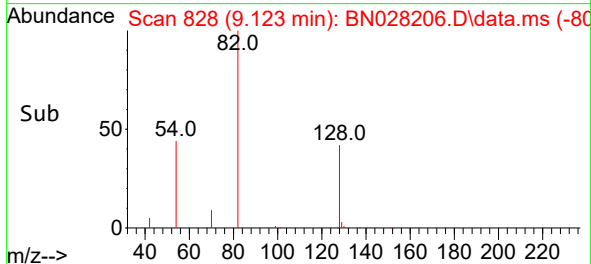
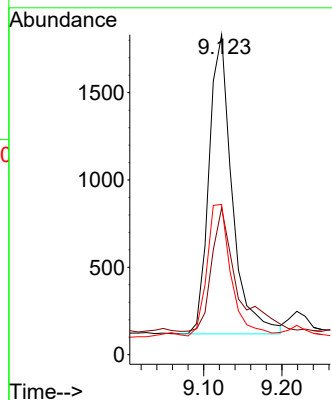
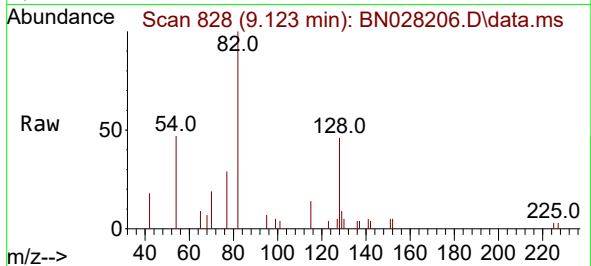




#8
Nitrobenzene-d5
Concen: 0.337 ng
RT: 9.123 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

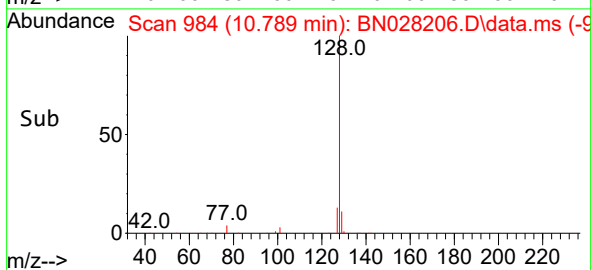
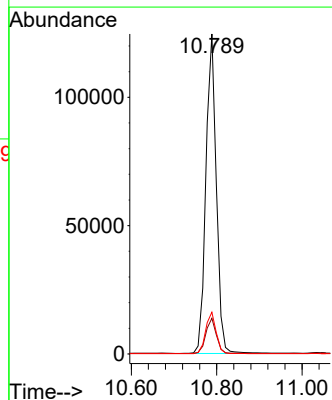
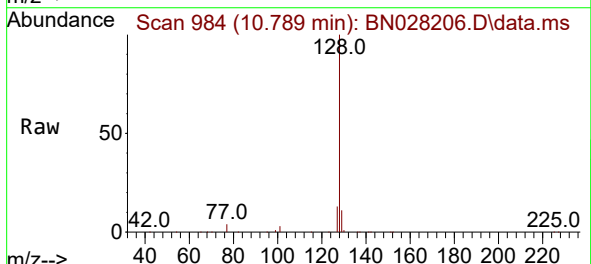
Instrument :
BNA_N
ClientSampleId :
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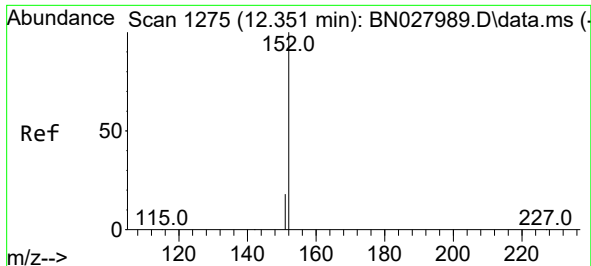
Tgt Ion: 82 Resp: 3518
Ion Ratio Lower Upper
82 100
128 45.9 32.7 49.1
54 46.9 38.7 58.1



#9
Naphthalene
Concen: 6.655 ng
RT: 10.789 min Scan# 984
Delta R.T. -0.000 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

Tgt Ion: 128 Resp: 210817
Ion Ratio Lower Upper
128 100
129 11.1 9.4 14.2
127 13.0 10.9 16.3

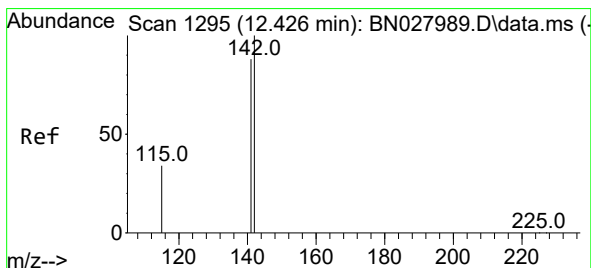
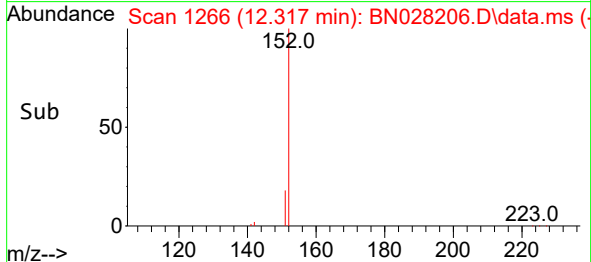
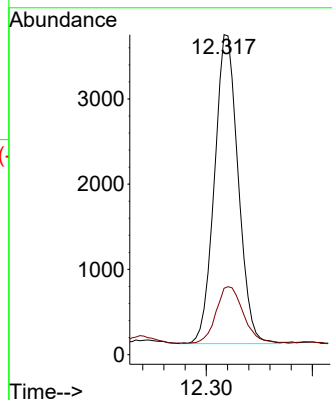
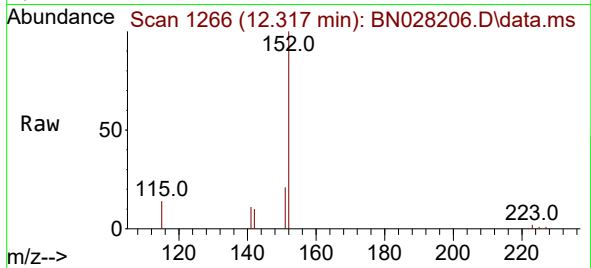




#11
2-Methylnaphthalene-d10
Concen: 0.310 ng
RT: 12.317 min Scan# 1266
Delta R.T. -0.008 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

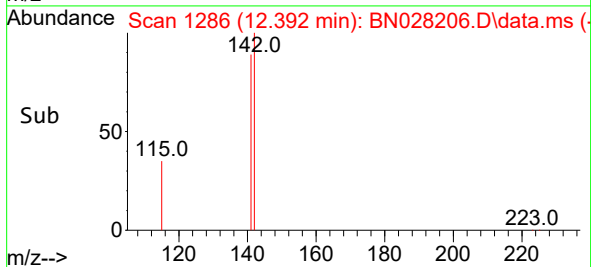
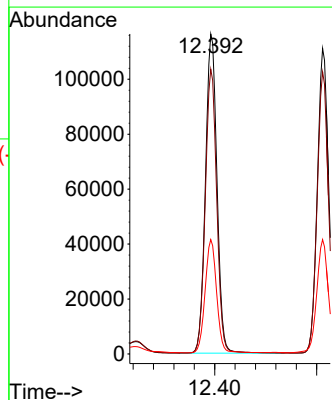
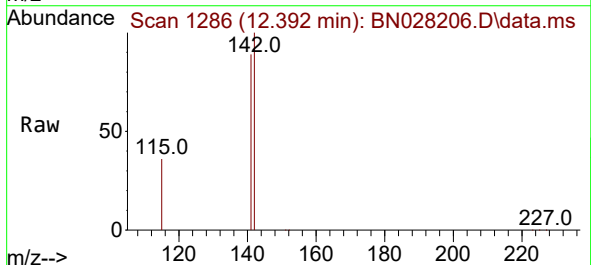
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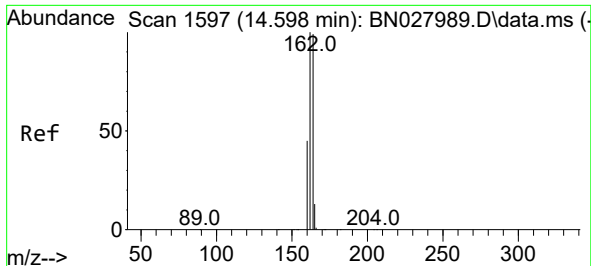
Tgt Ion:152 Resp: 5632
Ion Ratio Lower Upper
152 100
151 21.8 16.5 24.7



#12
2-Methylnaphthalene
Concen: 8.208 ng
RT: 12.392 min Scan# 1286
Delta R.T. -0.008 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

Tgt Ion:142 Resp: 181908
Ion Ratio Lower Upper
142 100
141 89.0 70.7 106.1
115 35.8 28.6 42.8

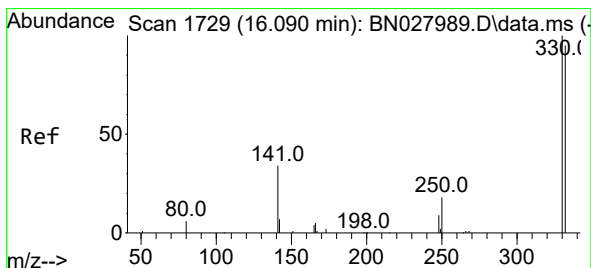
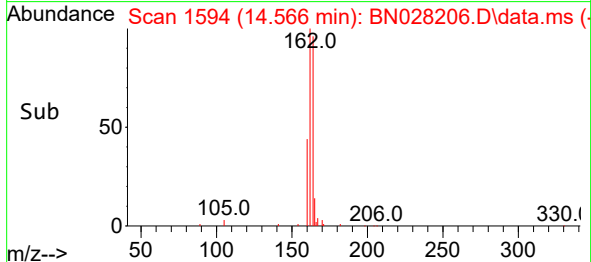
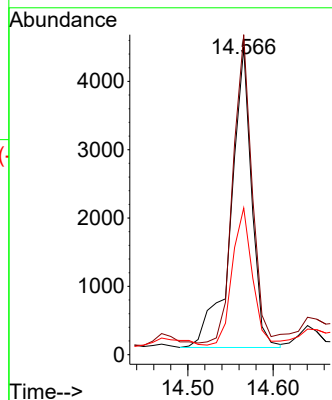
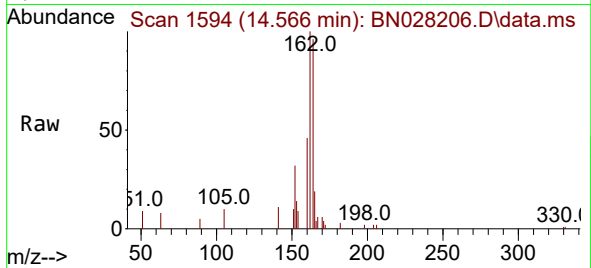




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.566 min Scan# 1594
Delta R.T. -0.000 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

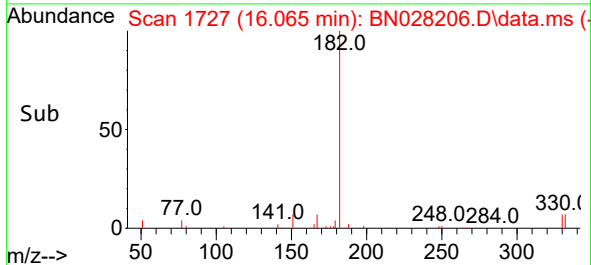
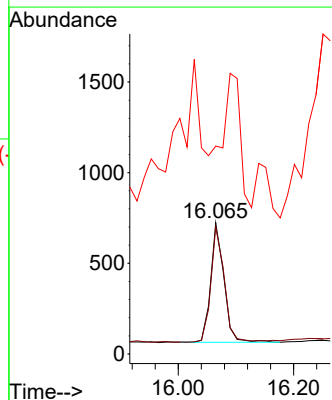
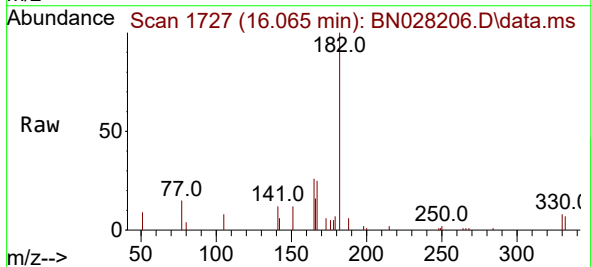
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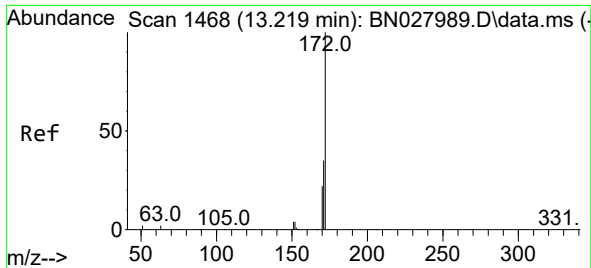
Tgt Ion:164 Resp: 7444
Ion Ratio Lower Upper
164 100
162 104.1 80.8 121.2
160 47.7 36.4 54.6



#14
2,4,6-Tribromophenol
Concen: 0.308 ng
RT: 16.065 min Scan# 1727
Delta R.T. -0.013 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

Tgt Ion:330 Resp: 1049
Ion Ratio Lower Upper
330 100
332 98.9 78.1 117.1
141 0.0 33.4 50.2#

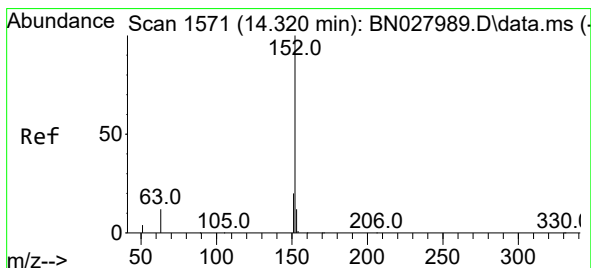
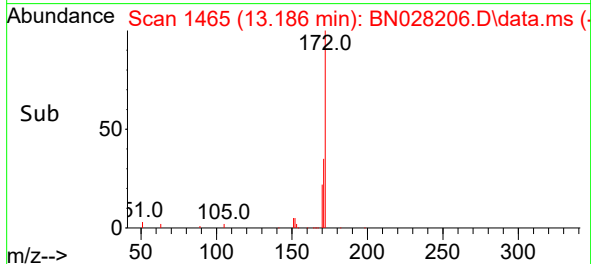
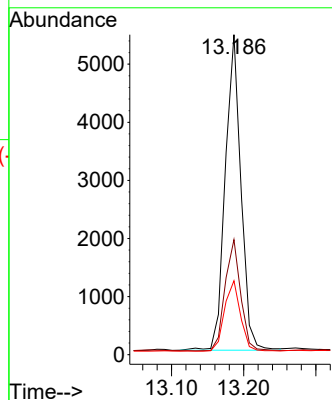
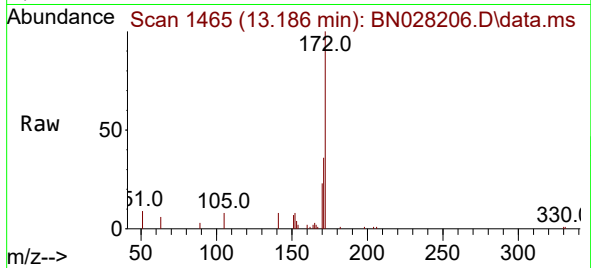




#15
2-Fluorobiphenyl
Concen: 0.305 ng
RT: 13.186 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

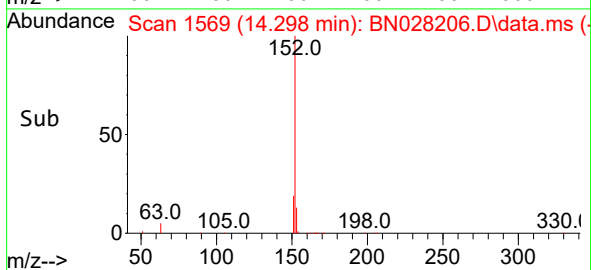
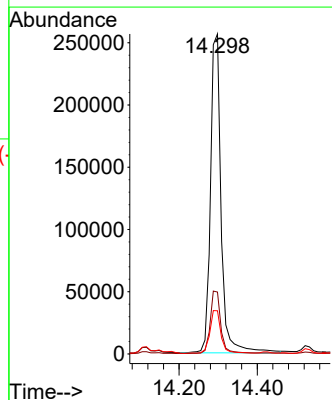
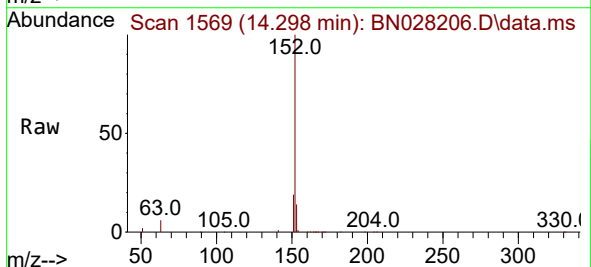
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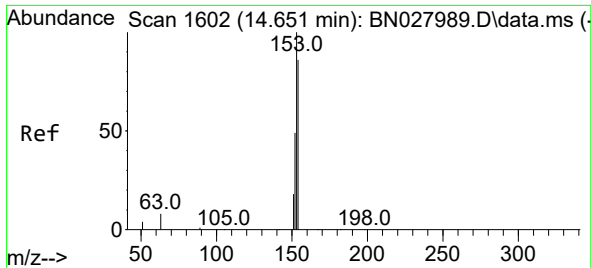
Tgt Ion:172 Resp: 8188
Ion Ratio Lower Upper
172 100
171 36.0 28.1 42.1
170 23.1 18.4 27.6



#16
Acenaphthylene
Concen: 14.739 ng
RT: 14.298 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

Tgt Ion:152 Resp: 486030
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 13.9 10.2 15.4

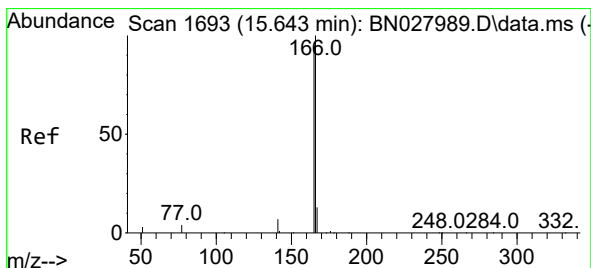
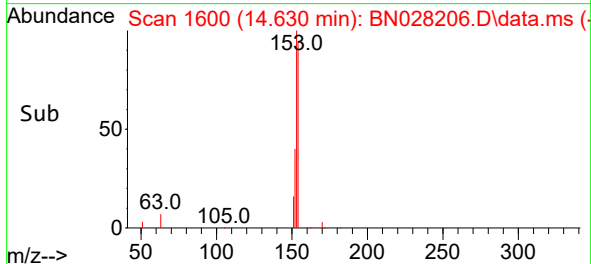
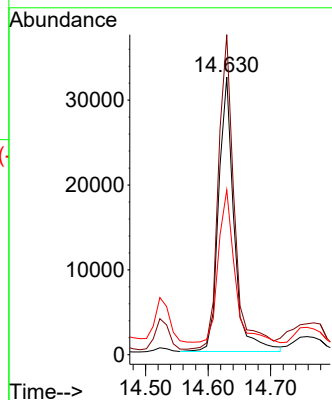
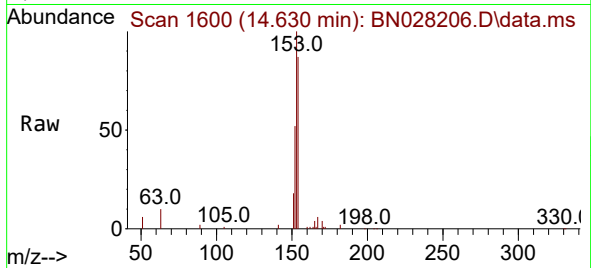




#17
Acenaphthene
Concen: 2.645 ng
RT: 14.630 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

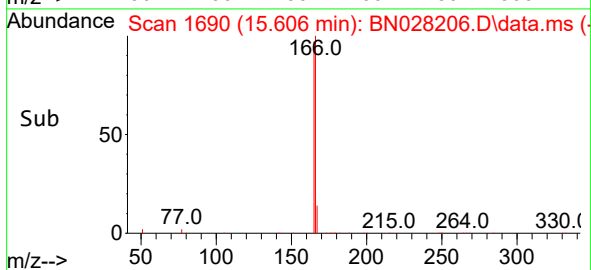
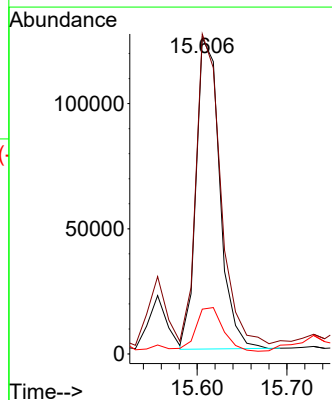
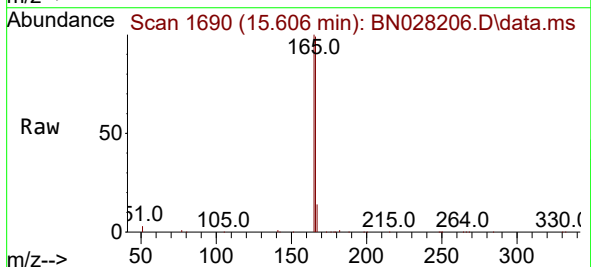
Instrument :
BNA_N
ClientSampleId :
S-3(0-5)

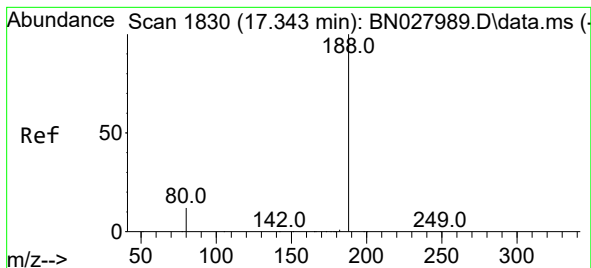
Tgt Ion:154 Resp: 55598
Ion Ratio Lower Upper
154 100
153 118.6 90.8 136.2
152 58.6 43.9 65.9



#18
Fluorene
Concen: 8.319 ng
RT: 15.606 min Scan# 1690
Delta R.T. -0.013 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

Tgt Ion:166 Resp: 227115
Ion Ratio Lower Upper
166 100
165 102.5 77.8 116.8
167 16.4 10.7 16.1#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.319 min Scan# 1828

Delta R.T. -0.000 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

Instrument :

BNA_N

ClientSampleId :

S-3(0-5)

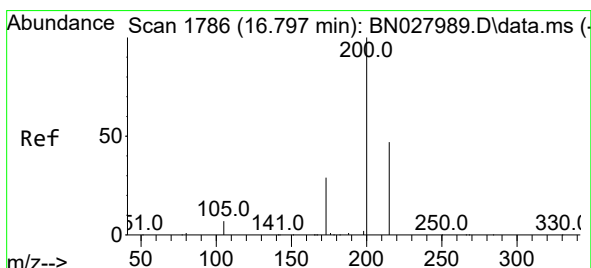
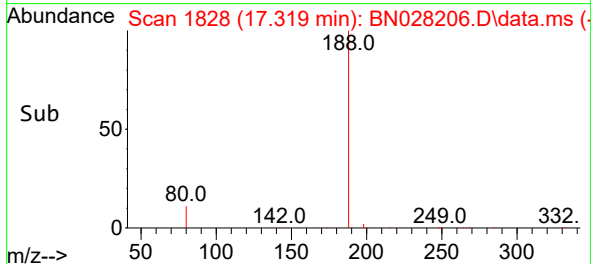
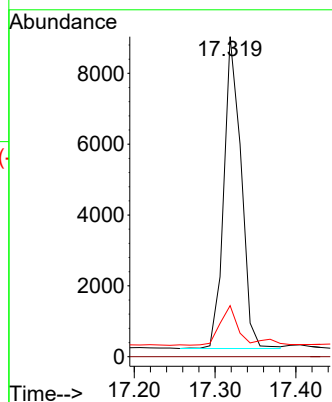
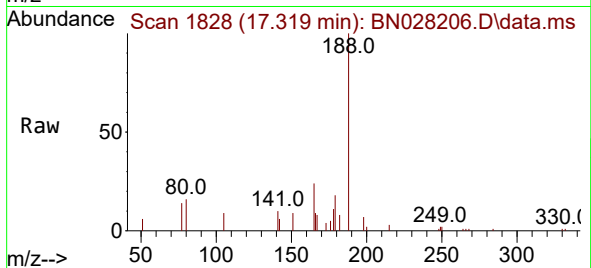
Tgt Ion:188 Resp: 13095

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.9 10.2 15.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 6.647 ng

RT: 16.772 min Scan# 1784

Delta R.T. -0.013 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

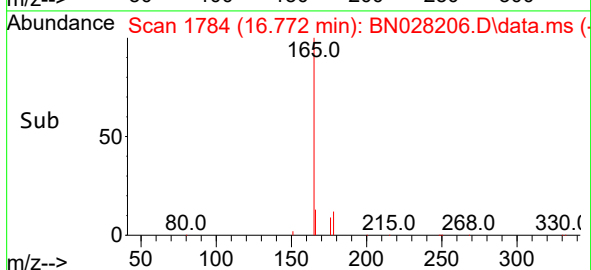
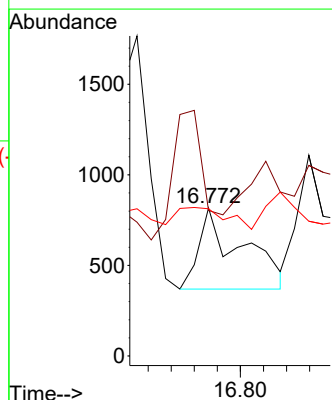
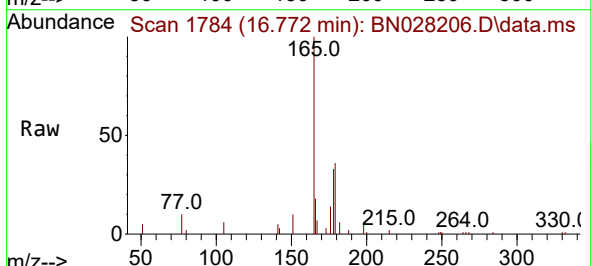
Tgt Ion:198 Resp: 1157

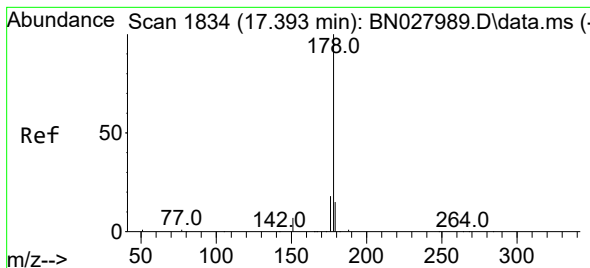
Ion Ratio Lower Upper

198 100

51 98.3 180.7 271.1#

105 99.5 222.2 333.2#





#25

Phenanthrene

Concen: 52.647 ng

RT: 17.368 min Scan# 1832

Delta R.T. -0.000 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

Instrument :

BNA_N

ClientSampleId :

S-3(0-5)

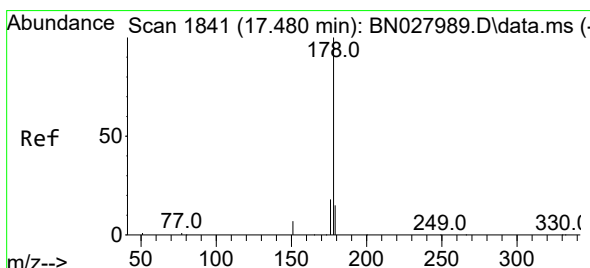
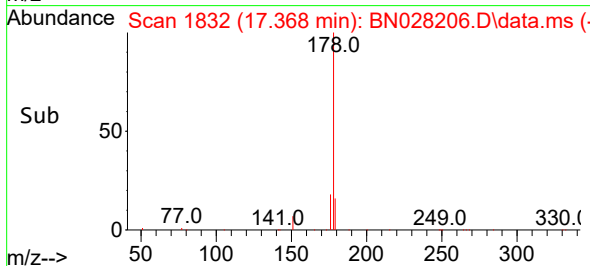
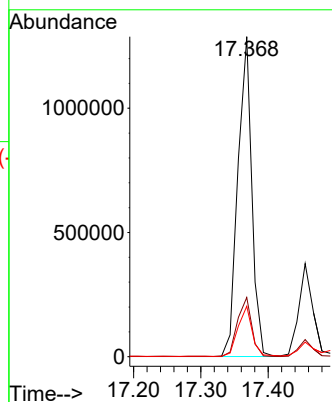
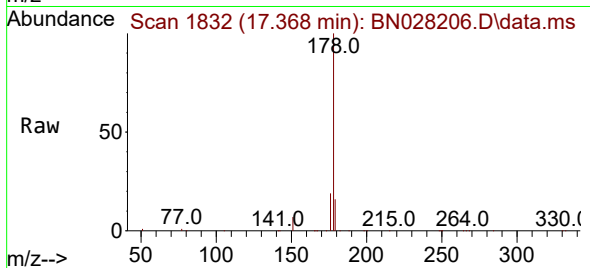
Tgt Ion:178 Resp: 1858626

Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

179 15.9 12.4 18.6



#26

Anthracene

Concen: 16.201 ng

RT: 17.455 min Scan# 1839

Delta R.T. -0.000 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

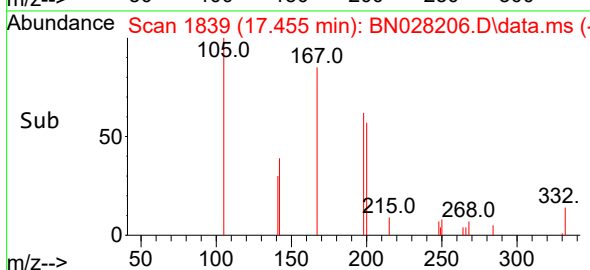
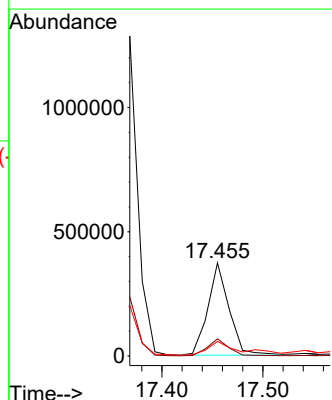
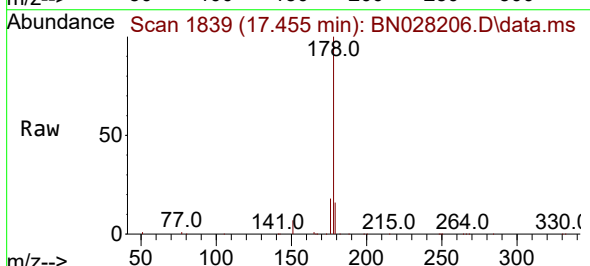
Tgt Ion:178 Resp: 540613

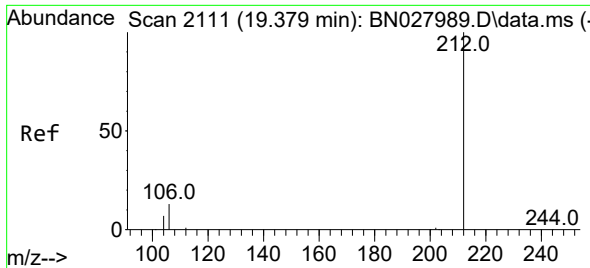
Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

179 23.0 12.2 18.2#

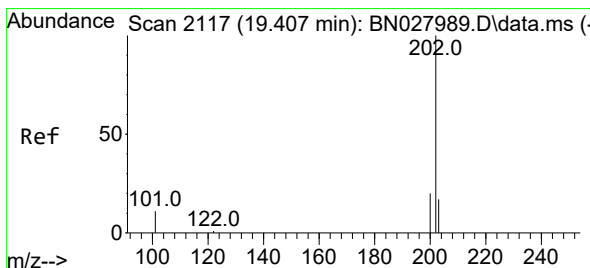
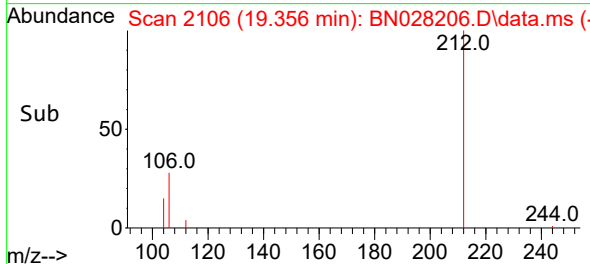
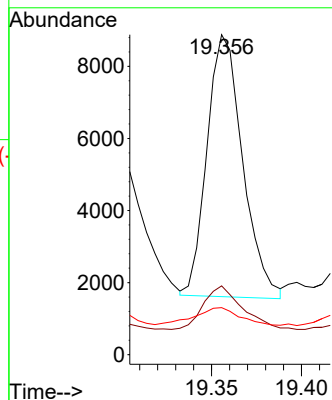
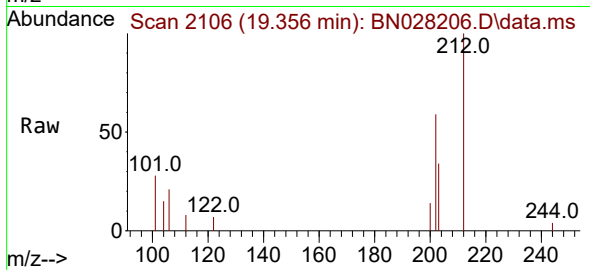




#27
Fluoranthene-d10
Concen: 0.305 ng
RT: 19.356 min Scan# 2106
Delta R.T. -0.000 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

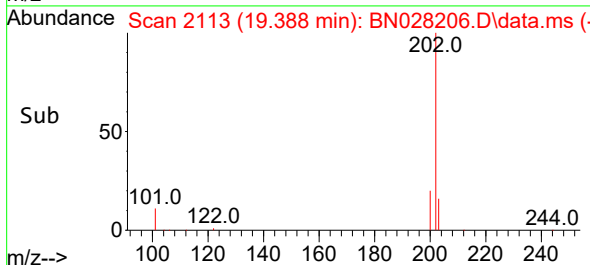
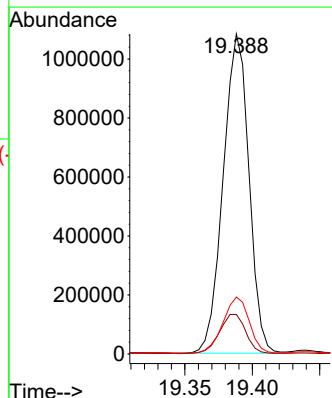
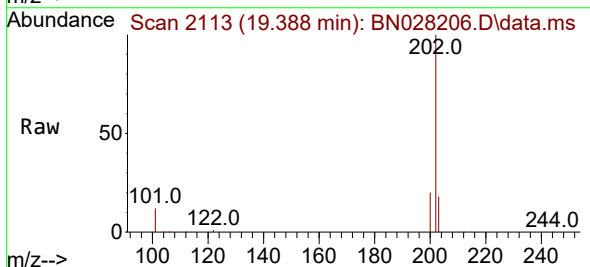
Instrument :
BNA_N
ClientSampleId :
S-3(0-5)

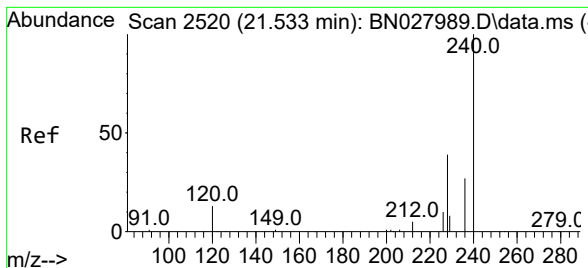
Tgt Ion:212 Resp: 10032
Ion Ratio Lower Upper
212 100
106 18.1 11.3 16.9#
104 9.1 6.4 9.6



#28
Fluoranthene
Concen: 35.226 ng
RT: 19.388 min Scan# 2113
Delta R.T. 0.004 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

Tgt Ion:202 Resp: 1435204
Ion Ratio Lower Upper
202 100
101 12.6 9.8 14.6
203 17.9 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.515 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

Instrument :

BNA_N

ClientSampleId :

S-3(0-5)

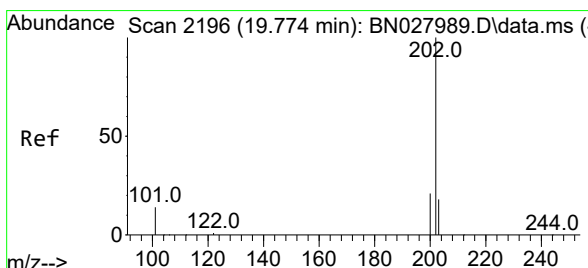
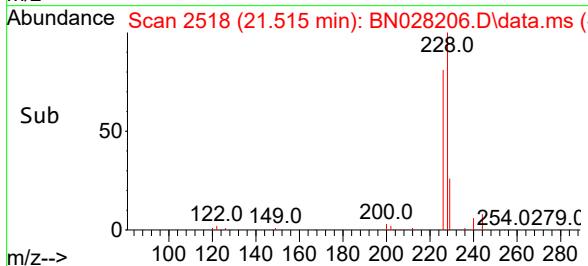
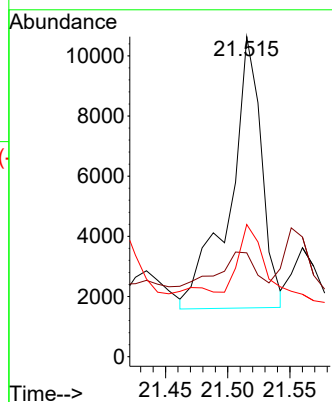
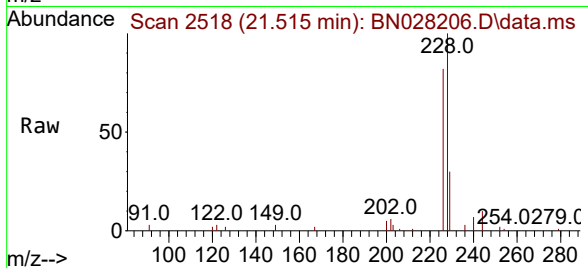
Tgt Ion:240 Resp: 16057

Ion Ratio Lower Upper

240 100

120 32.4 13.8 20.6#

236 41.3 22.6 33.8#



#30

Pyrene

Concen: 34.351 ng

RT: 19.755 min Scan# 2192

Delta R.T. 0.004 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

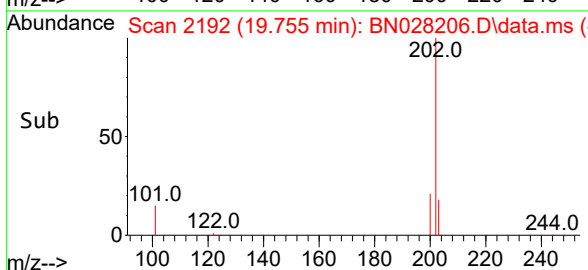
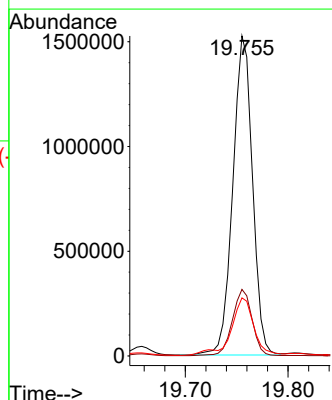
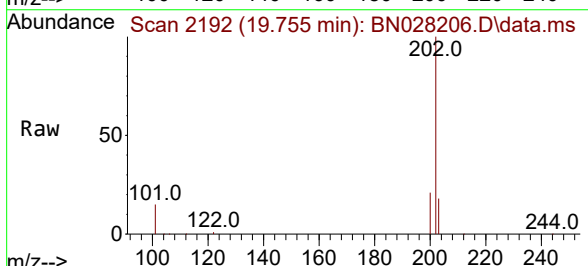
Tgt Ion:202 Resp: 2022583

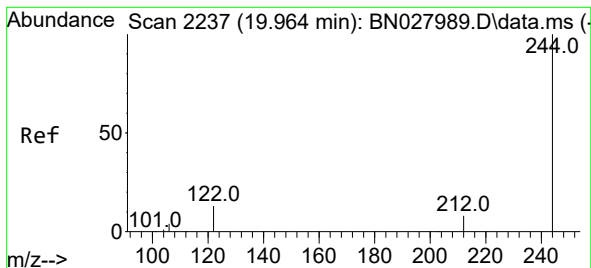
Ion Ratio Lower Upper

202 100

200 20.8 16.5 24.7

203 20.6 14.7 22.1





#31

Terphenyl-d14

Concen: 0.282 ng

RT: 19.941 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

Instrument :

BNA_N

ClientSampleId :

S-3(0-5)

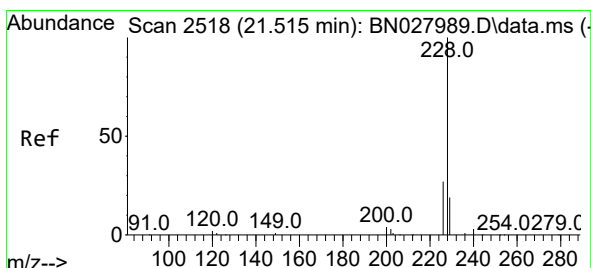
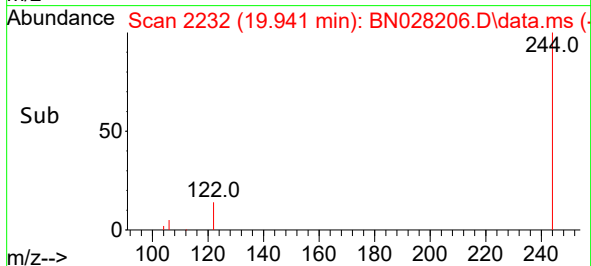
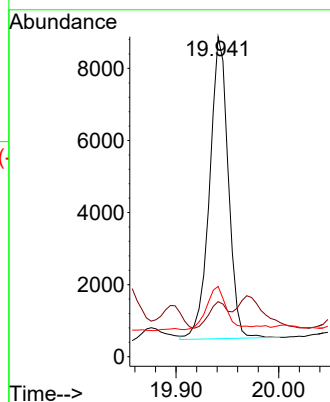
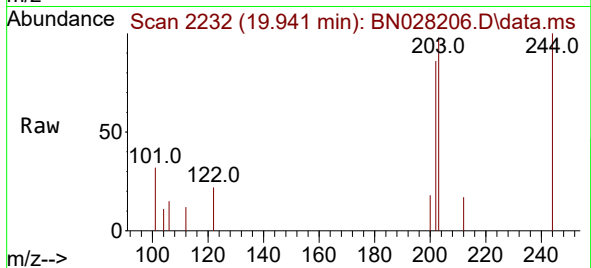
Tgt Ion:244 Resp: 10575

Ion Ratio Lower Upper

244 100

212 17.2 6.6 9.8#

122 22.0 11.4 17.0#



#32

Benzo(a)anthracene

Concen: 17.028 ng

RT: 21.497 min Scan# 2516

Delta R.T. -0.000 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

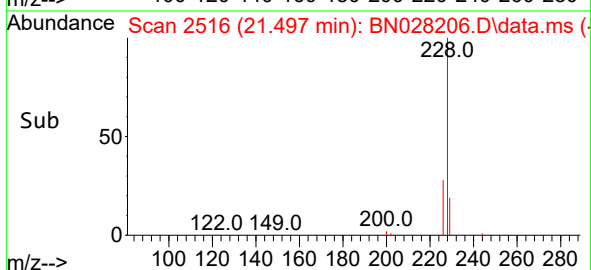
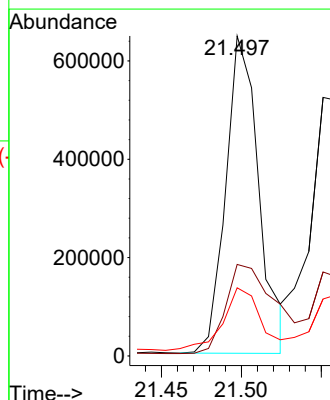
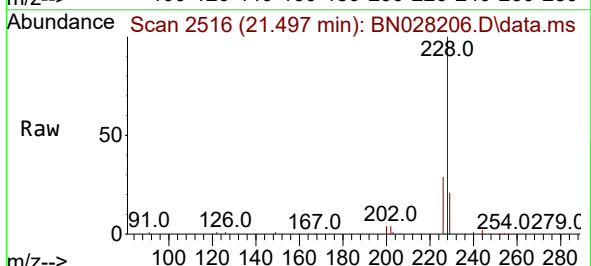
Tgt Ion:228 Resp: 930392

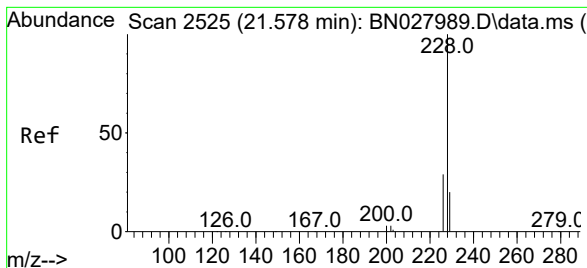
Ion Ratio Lower Upper

228 100

226 28.6 22.0 33.0

229 21.3 16.0 24.0





#33

Chrysene

Concen: 15.979 ng

RT: 21.551 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

Instrument :

BNA_N

ClientSampleId :

S-3(0-5)

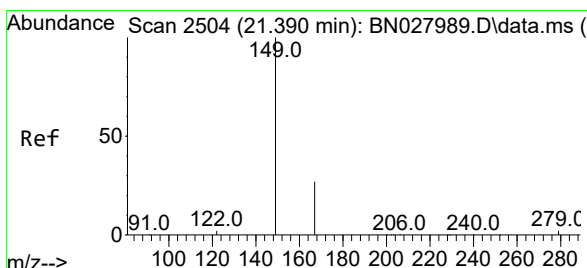
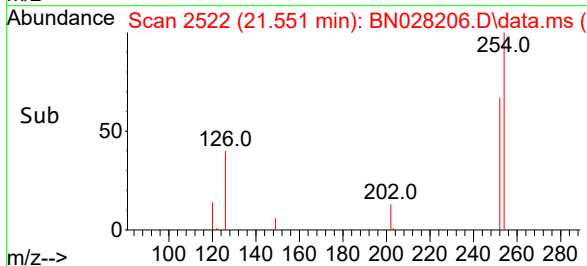
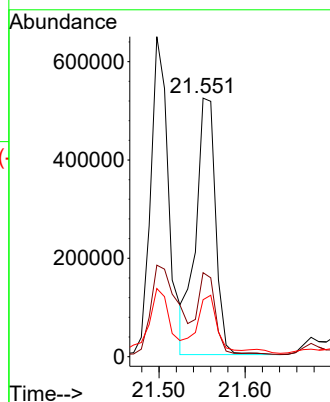
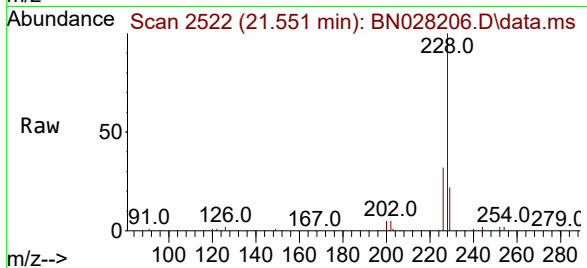
Tgt Ion:228 Resp: 841378

Ion Ratio Lower Upper

228 100

226 32.5 23.8 35.8

229 22.0 16.6 25.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.102 ng

RT: 21.372 min Scan# 2502

Delta R.T. 0.009 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

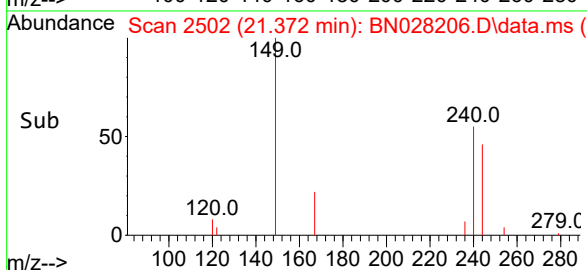
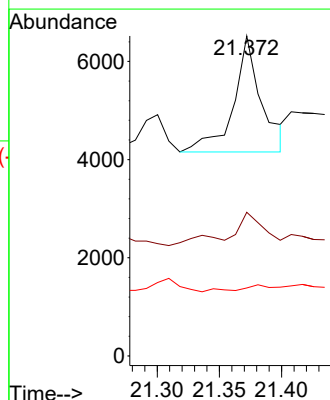
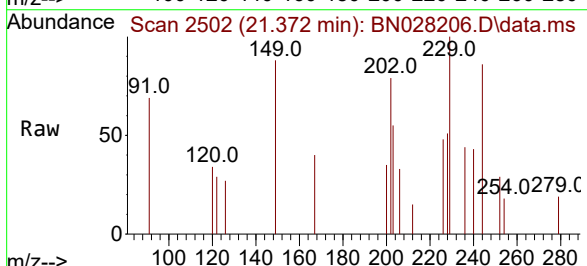
Tgt Ion:149 Resp: 3658

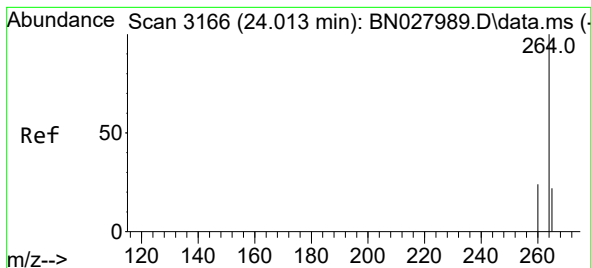
Ion Ratio Lower Upper

149 100

167 19.5 22.1 33.1#

279 6.5 3.4 5.0#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.984 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

Instrument :

BNA_N

ClientSampleId :

S-3(0-5)

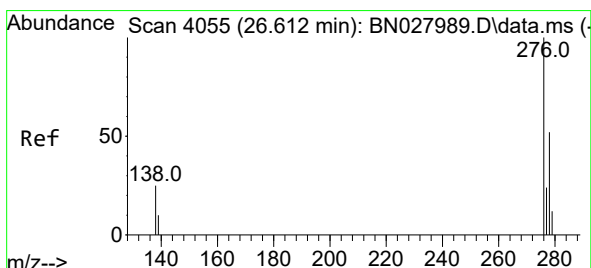
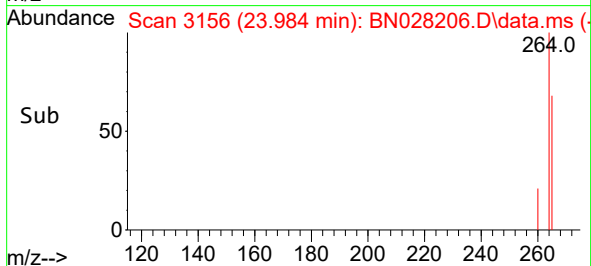
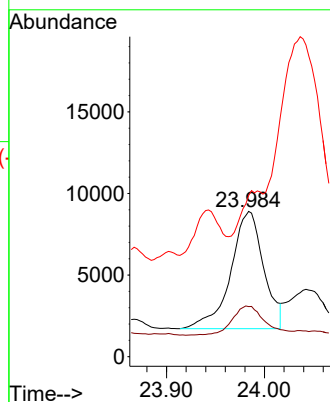
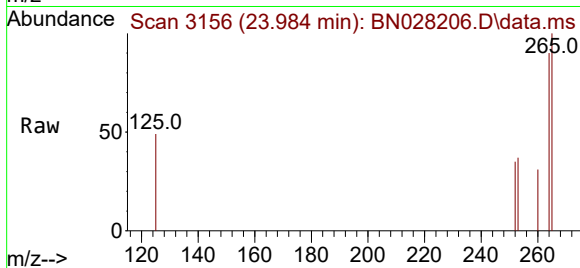
Tgt Ion:264 Resp: 16843

Ion Ratio Lower Upper

264 100

260 34.5 20.2 30.4#

265 111.0 54.8 82.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 7.351 ng

RT: 26.571 min Scan# 4041

Delta R.T. 0.014 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

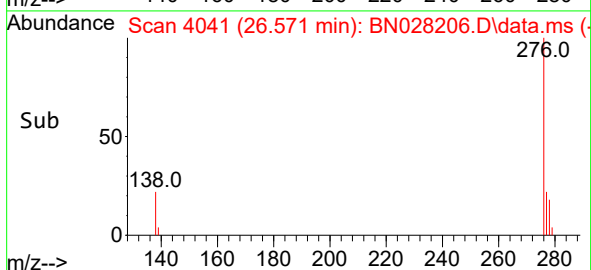
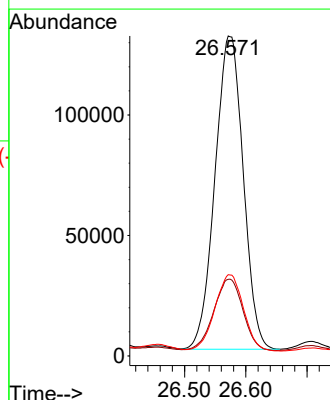
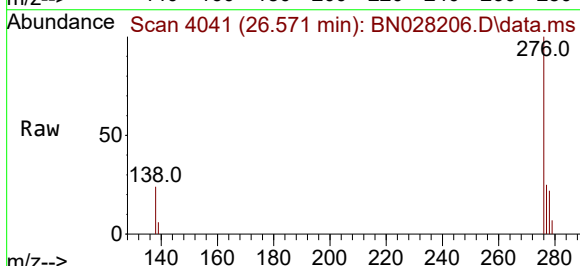
Tgt Ion:276 Resp: 416485

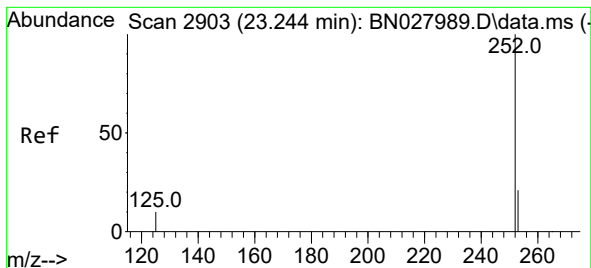
Ion Ratio Lower Upper

276 100

138 23.6 20.9 31.3

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 14.747 ng

RT: 23.224 min Scan# 21

Delta R.T. 0.012 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

Instrument :

BNA_N

ClientSampleId :

S-3(0-5)

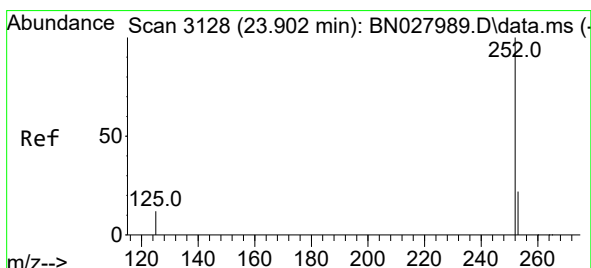
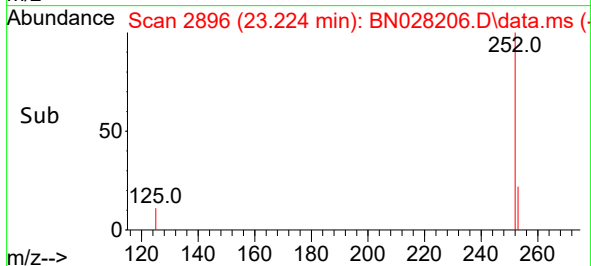
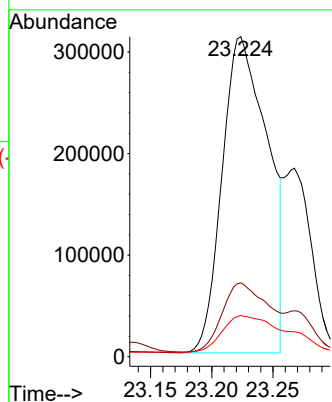
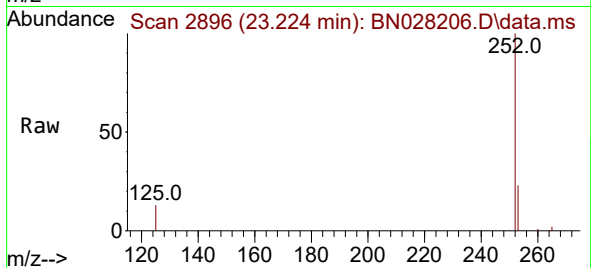
Tgt Ion:252 Resp: 802191

Ion Ratio Lower Upper

252 100

253 23.1 22.9 34.3

125 12.8 13.8 20.8#



#39

Benzo(a)pyrene

Concen: 3.048 ng

RT: 24.039 min Scan# 3175

Delta R.T. 0.175 min

Lab File: BN028206.D

Acq: 10 Oct 2023 20:28

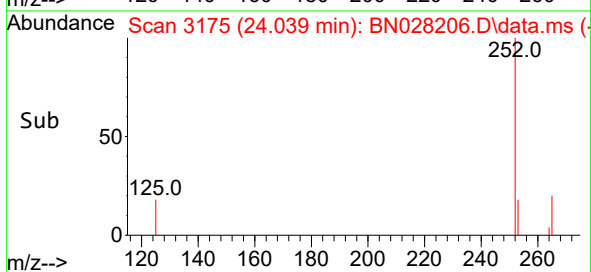
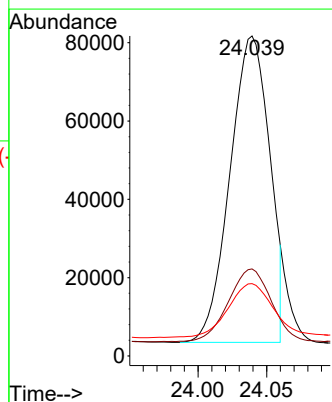
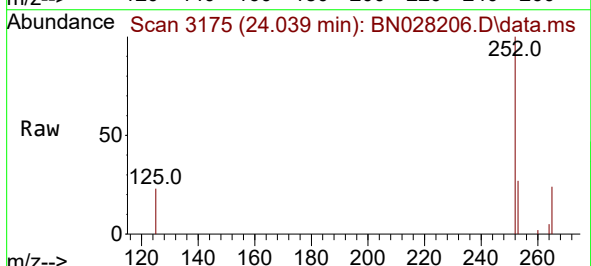
Tgt Ion:252 Resp: 156773

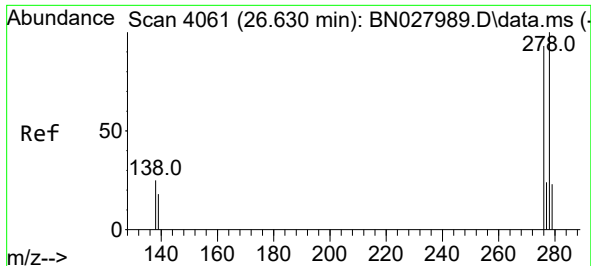
Ion Ratio Lower Upper

252 100

253 27.2 25.0 37.4

125 22.6 16.6 24.8

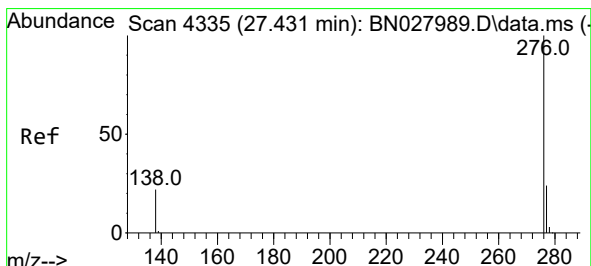
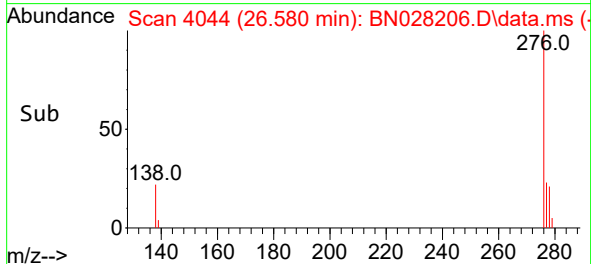
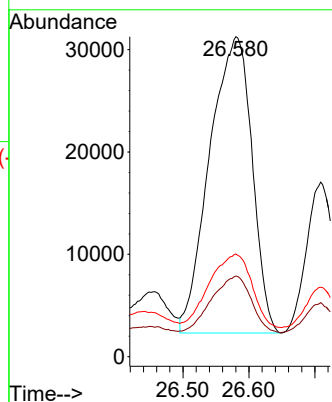
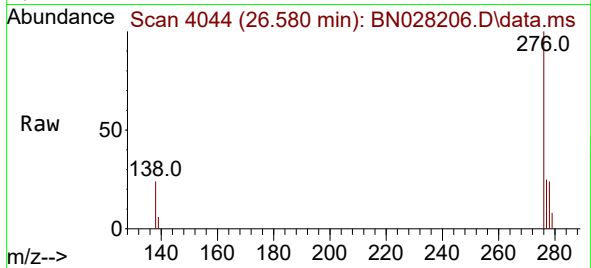




#40
Dibenzo(a,h)anthracene
Concen: 2.792 ng
RT: 26.580 min Scan# 4061
Delta R.T. 0.003 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

Instrument :
BNA_N
ClientSampleId :
S-3(0-5)

Tgt Ion:278 Resp: 129389
Ion Ratio Lower Upper
278 100
139 25.2 17.7 26.5
279 32.1 25.2 37.8



#41
Benzo(g,h,i)perylene
Concen: 9.351 ng
RT: 27.390 min Scan# 4321
Delta R.T. 0.023 min
Lab File: BN028206.D
Acq: 10 Oct 2023 20:28

Tgt Ion:276 Resp: 444836
Ion Ratio Lower Upper
276 100
277 25.1 22.1 33.1
138 24.3 20.8 31.2

