

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100923\
 Data File : BN028190.D
 Acq On : 10 Oct 2023 09:50
 Operator : MA/JU
 Sample : 04622-02 10X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 I-4(0-5)

Quant Time: Oct 10 10:48:16 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)

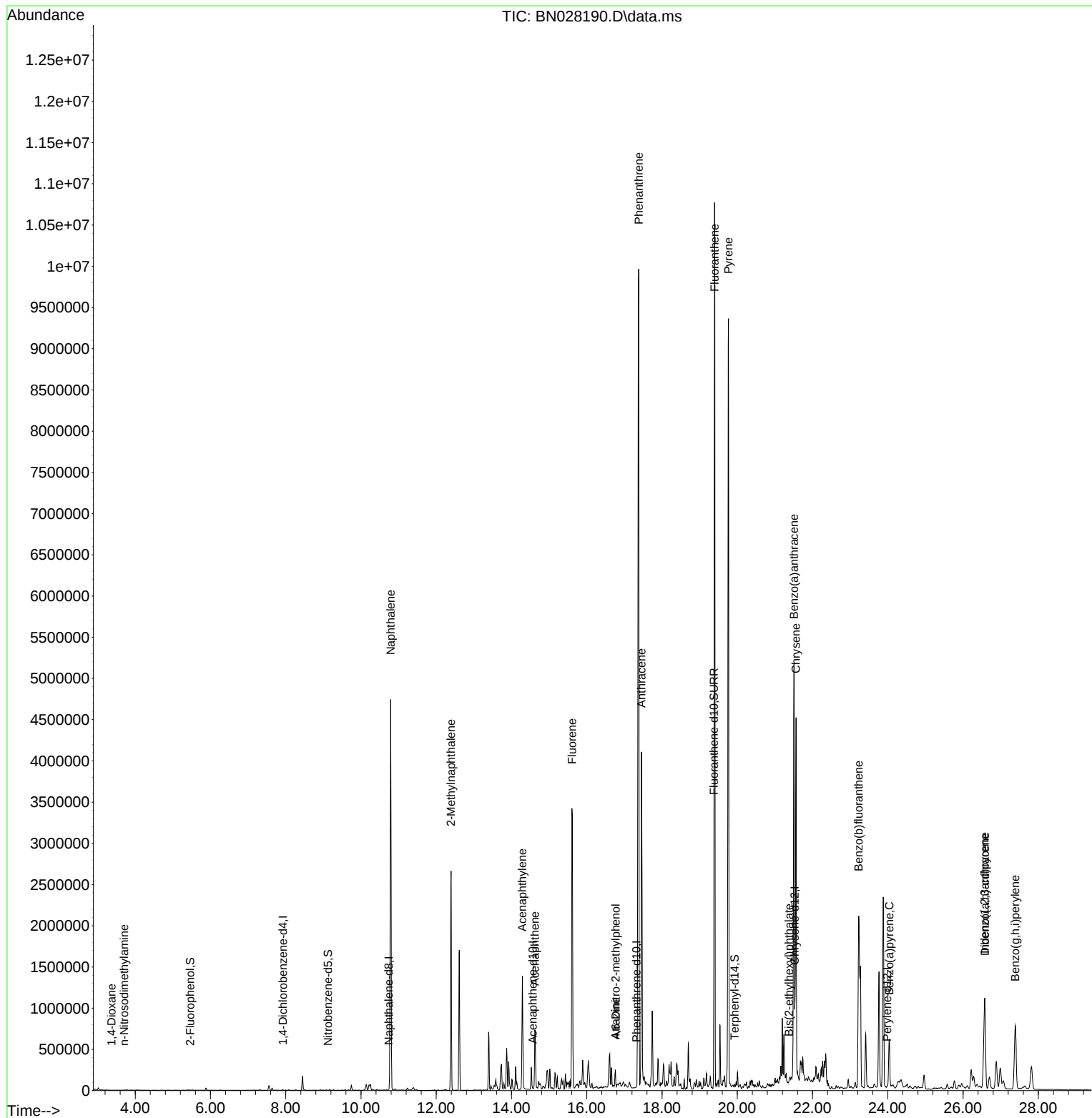
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	4173	0.400	ng	0.00
7) Naphthalene-d8	10.735	136	13106	0.400	ng	0.00
13) Acenaphthene-d10	14.566	164	7917	0.400	ng	0.00
19) Phenanthrene-d10	17.319	188	14342	0.400	ng	# 0.00
29) Chrysene-d12	21.524	240	22328	0.400	ng	# 0.00
35) Perylene-d12	23.981	264	13919	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.459	112	402	0.032	ng	0.00
5) Phenol-d6	7.084	99	249	0.016	ng	0.00
8) Nitrobenzene-d5	9.123	82	238	0.021	ng	0.00
11) 2-Methylnaphthalene-d10	12.317	152	313	0.016	ng	0.00
14) 2,4,6-Tribromophenol	16.065	330	57	0.016	ng	-0.01
15) 2-Fluorobiphenyl	13.187	172	456	0.016	ng	0.00
27) Fluoranthene-d10	19.379	212	5568	0.155	ng	0.02
31) Terphenyl-d14	19.927	244	6108	0.117	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.372	88	175	0.037	ng	# 55
3) n-Nitrosodimethylamine	3.704	42	141	0.026	ng	# 1
9) Naphthalene	10.789	128	6057556	178.882	ng	99
12) 2-Methylnaphthalene	12.393	142	1838006	77.590	ng	99
16) Acenaphthylene	14.288	152	1456693	41.535	ng	98
17) Acenaphthene	14.619	154	382284	17.099	ng	97
18) Fluorene	15.606	166	2857963	98.427	ng	100
20) 4,6-Dinitro-2-methylph...	16.773	198	1157	6.069	ng	# 33
23) Atrazine	16.773	200	244	0.037	ng	# 1
25) Phenanthrene	17.381	178	12907378	333.820	ng	98
26) Anthracene	17.455	178	4185580	114.526	ng	# 94
28) Fluoranthene	19.398	202	10076964	225.824	ng	96
30) Pyrene	19.765	202	8852570	108.123	ng	97
32) Benzo(a)anthracene	21.507	228	4839187	63.692	ng	96
33) Chrysene	21.560	228	3888623	53.108	ng	96
34) Bis(2-ethylhexyl)phtha...	21.372	149	5073	0.102	ng	99
36) Indeno(1,2,3-cd)pyrene	26.577	276	1948223	41.612	ng	98
37) Benzo(b)fluoranthene	23.227	252	4289655	95.424	ng	# 89
39) Benzo(a)pyrene	24.037	252	758463	17.843	ng	91
40) Dibenzo(a,h)anthracene	26.580	278	586612	15.316	ng	94
41) Benzo(g,h,i)perylene	27.387	276	1771323	45.057	ng	94

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

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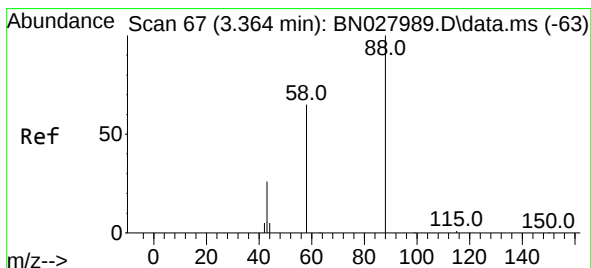
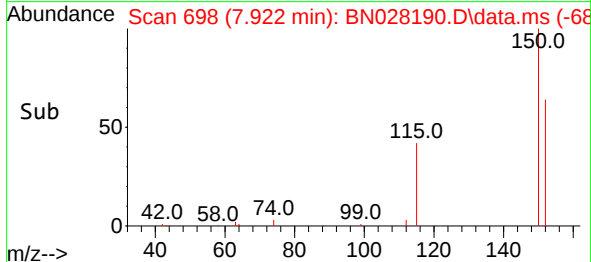
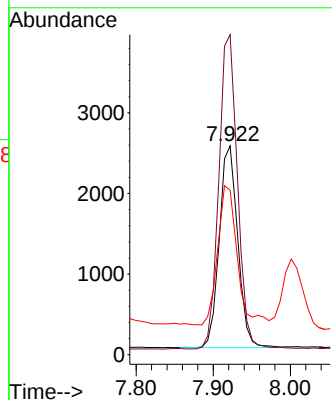
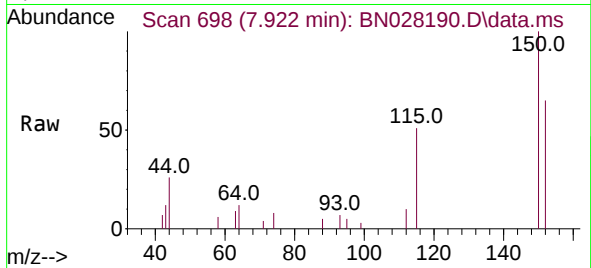




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.922 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN028190.D
 Acq: 10 Oct 2023 09:50

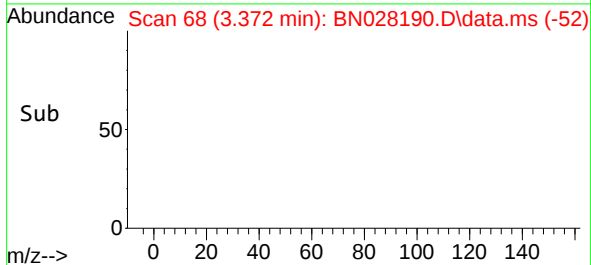
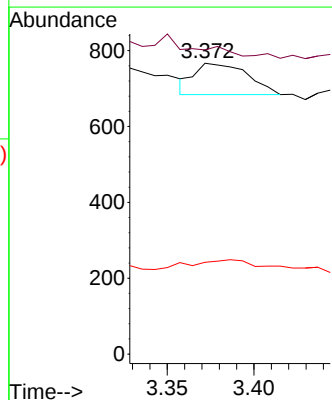
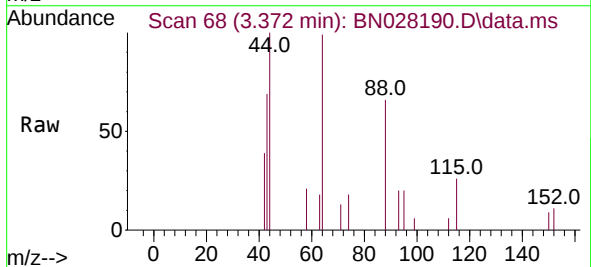
Instrument :
 BNA_N
 ClientSampleId :
 I-4(0-5)

Tgt Ion:152 Resp: 4173
 Ion Ratio Lower Upper
 152 100
 150 153.2 125.6 188.4
 115 78.8 54.8 82.2



#2
 1,4-Dioxane
 Concen: 0.037 ng
 RT: 3.372 min Scan# 68
 Delta R.T. 0.015 min
 Lab File: BN028190.D
 Acq: 10 Oct 2023 09:50

Tgt Ion: 88 Resp: 175
 Ion Ratio Lower Upper
 88 100
 43 0.0 24.6 36.8#
 58 34.9 53.8 80.6#

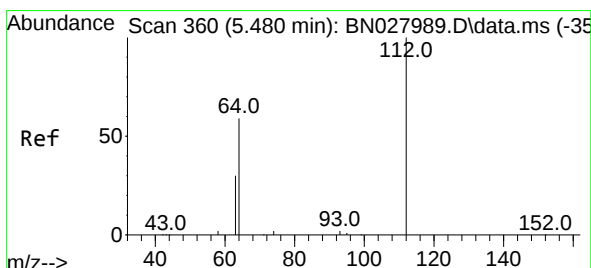
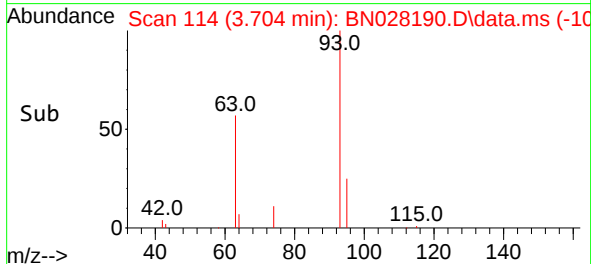
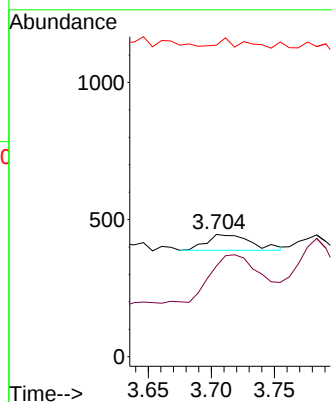
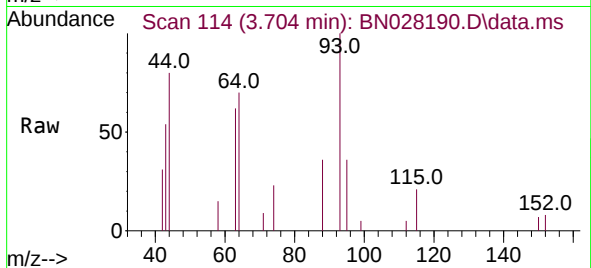




#3
n-Nitrosodimethylamine
Concen: 0.026 ng
RT: 3.704 min Scan# 116
Delta R.T. -0.007 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

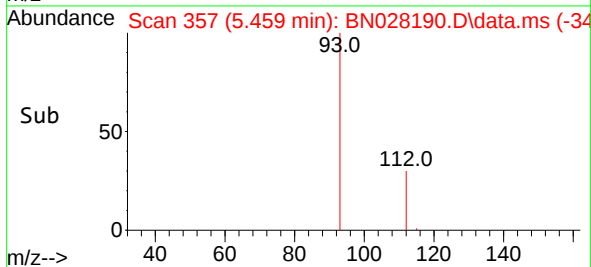
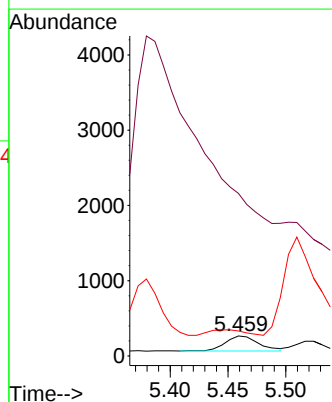
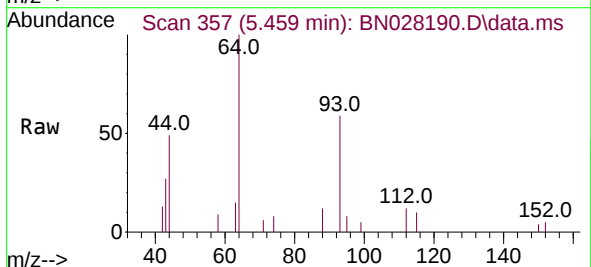
Instrument :
BNA_N
ClientSampleId :
I-4(0-5)

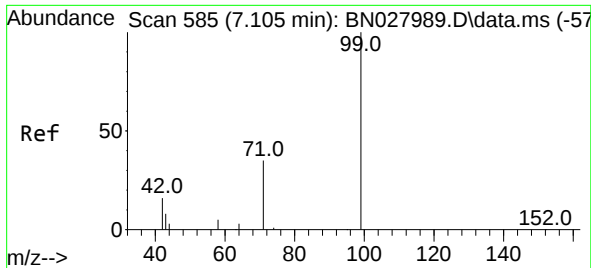
Tgt Ion: 42 Resp: 141
Ion Ratio Lower Upper
42 100
74 361.7 115.9 173.9#
44 34.8 8.0 12.0#



#4
2-Fluorophenol
Concen: 0.032 ng
RT: 5.459 min Scan# 357
Delta R.T. -0.007 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

Tgt Ion: 112 Resp: 402
Ion Ratio Lower Upper
112 100
64 0.0 45.0 67.6#
63 42.8 23.4 35.0#

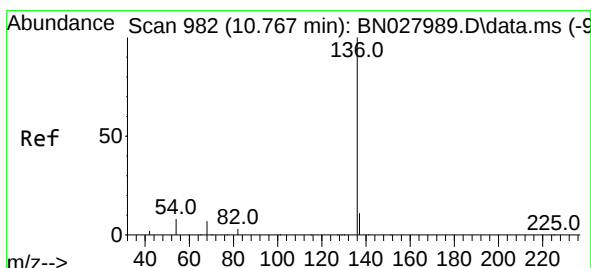
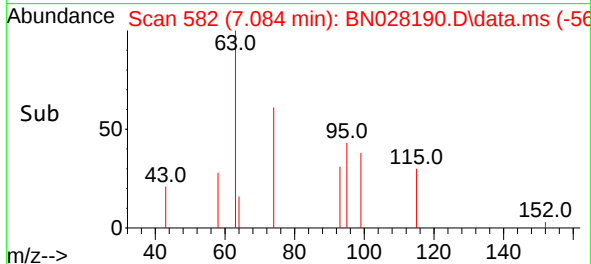
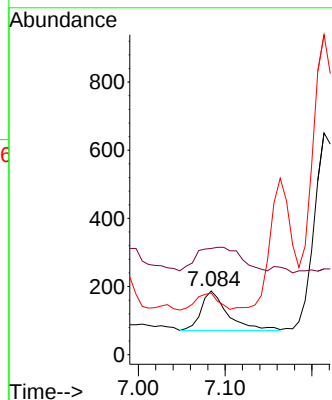
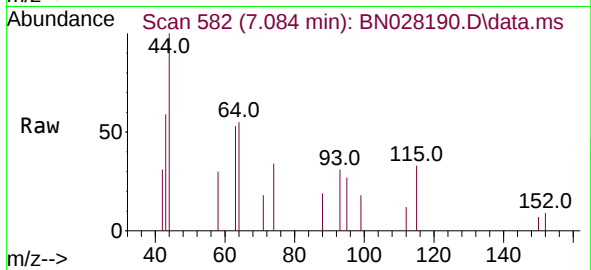




#5
Phenol-d6
Concen: 0.016 ng
RT: 7.084 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

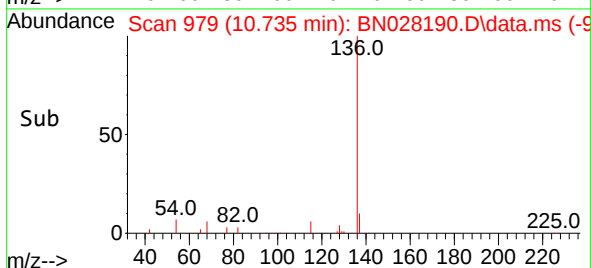
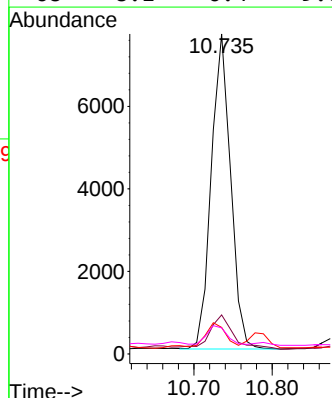
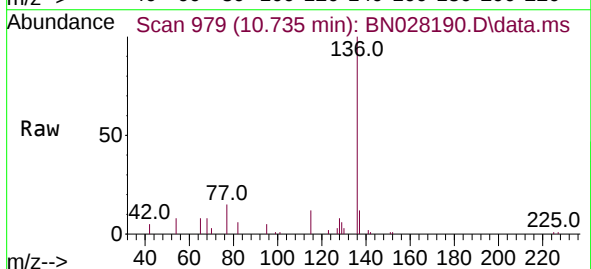
Instrument :
BNA_N
ClientSampleId :
I-4(0-5)

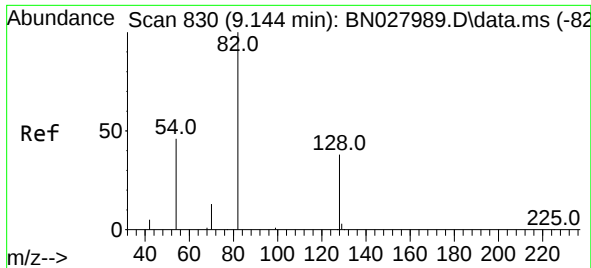
Tgt Ion: 99 Resp: 249
Ion Ratio Lower Upper
99 100
42 101.6 14.6 22.0#
71 36.1 28.3 42.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.735 min Scan# 979
Delta R.T. 0.000 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

Tgt Ion:136 Resp: 13106
Ion Ratio Lower Upper
136 100
137 12.2 9.4 14.0
54 8.3 7.0 10.6
68 8.1 6.4 9.6

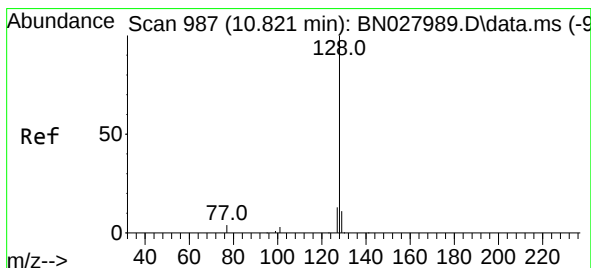
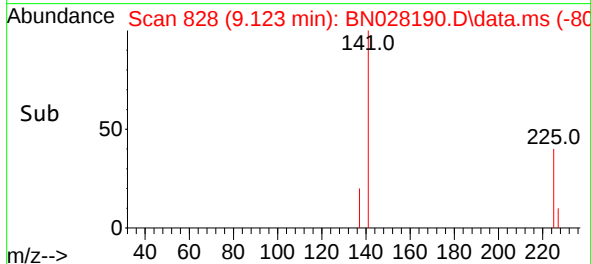
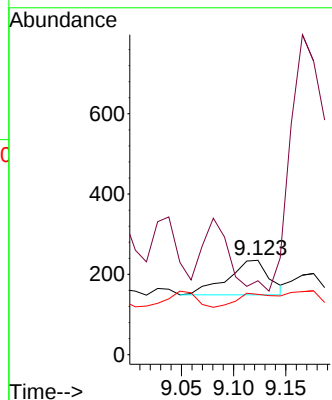
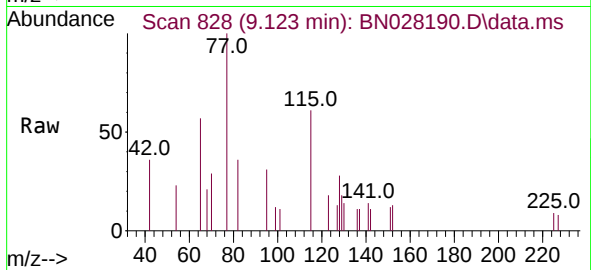




#8
 Nitrobenzene-d5
 Concen: 0.021 ng
 RT: 9.123 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: BN028190.D
 Acq: 10 Oct 2023 09:50

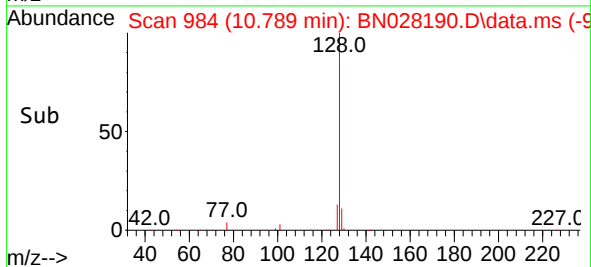
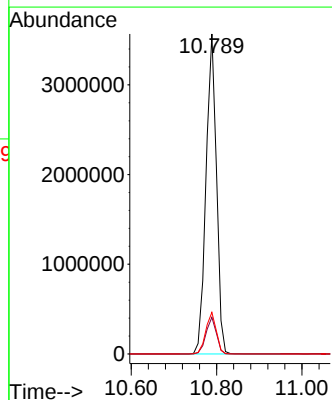
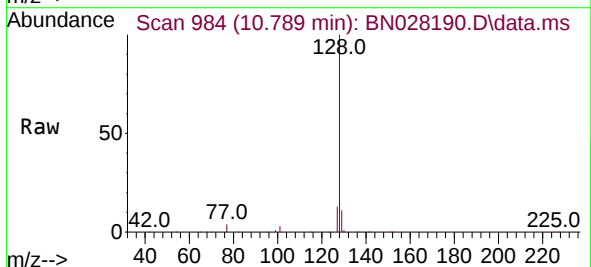
Instrument :
 BNA_N
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 I-4(0-5)

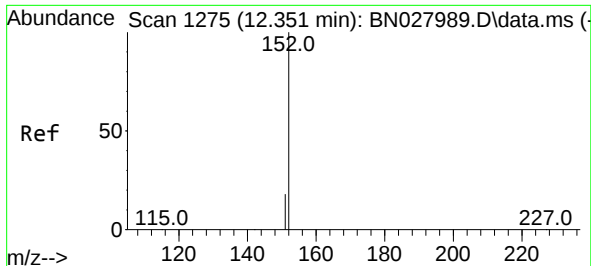
Tgt Ion: 82 Resp: 238
 Ion Ratio Lower Upper
 82 100
 128 78.3 32.7 49.1#
 54 63.8 38.7 58.1#



#9
 Naphthalene
 Concen: 178.882 ng
 RT: 10.789 min Scan# 984
 Delta R.T. 0.000 min
 Lab File: BN028190.D
 Acq: 10 Oct 2023 09:50

Tgt Ion: 128 Resp: 6057556
 Ion Ratio Lower Upper
 128 100
 129 11.5 9.4 14.2
 127 13.0 10.9 16.3

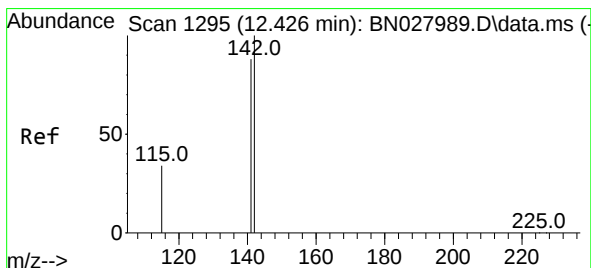
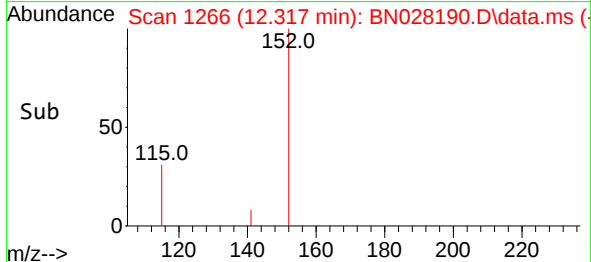
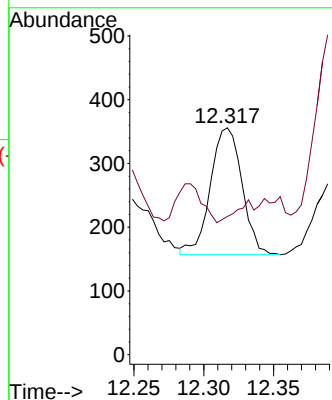
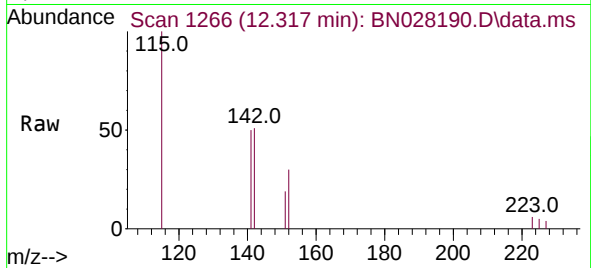




#11
2-Methylnaphthalene-d10
Concen: 0.016 ng
RT: 12.317 min Scan# 11
Delta R.T. -0.008 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

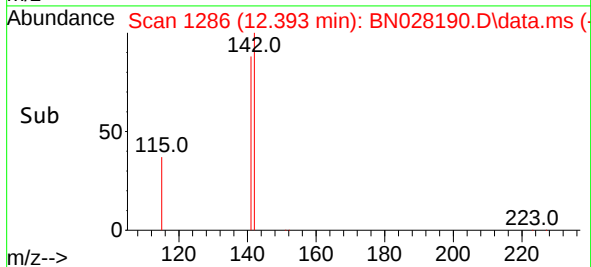
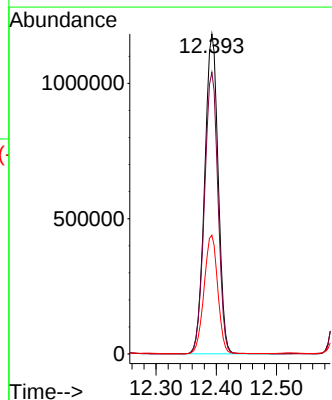
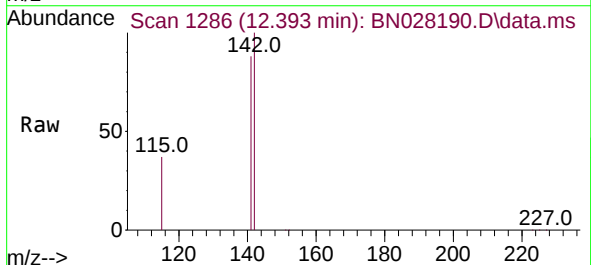
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BNA_N
ClientSampleId :
I-4(0-5)

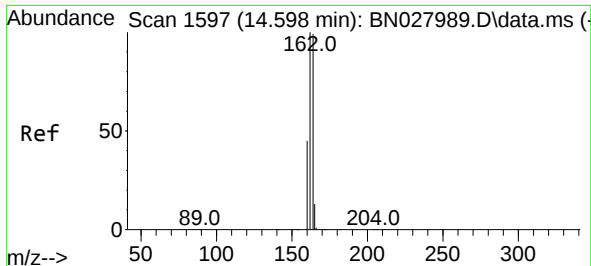
Tgt Ion:152 Resp: 313
Ion Ratio Lower Upper
152 100
151 6.7 16.5 24.7#



#12
2-Methylnaphthalene
Concen: 77.590 ng
RT: 12.393 min Scan# 1286
Delta R.T. -0.008 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

Tgt Ion:142 Resp: 1838006
Ion Ratio Lower Upper
142 100
141 88.0 70.7 106.1
115 37.1 28.6 42.8

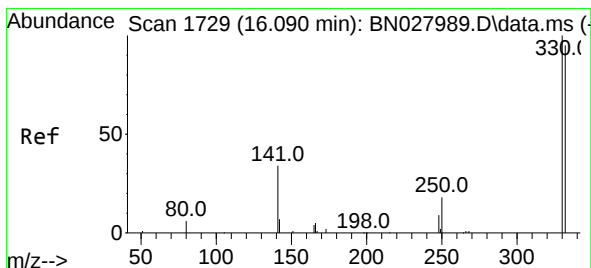
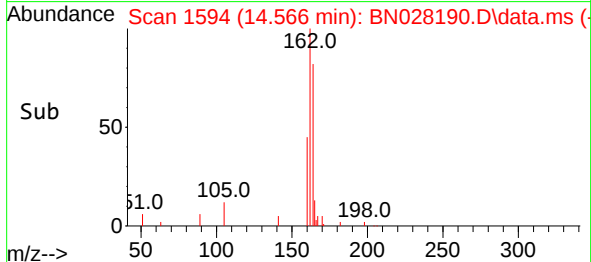
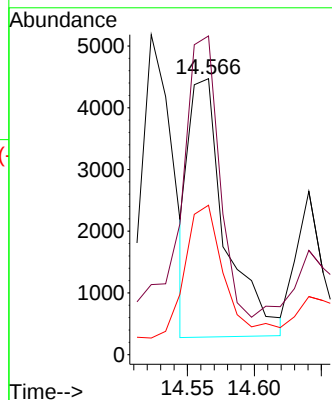
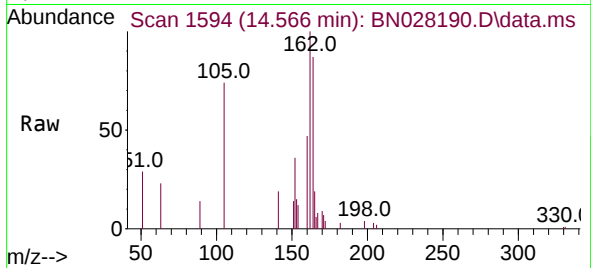




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.566 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

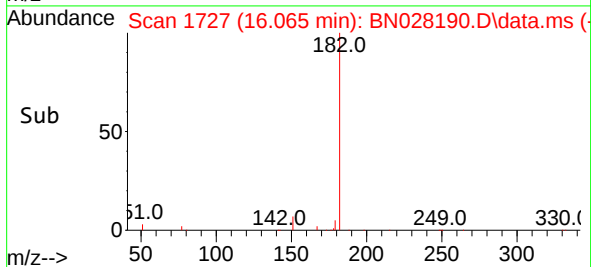
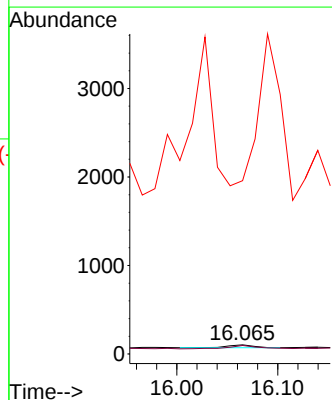
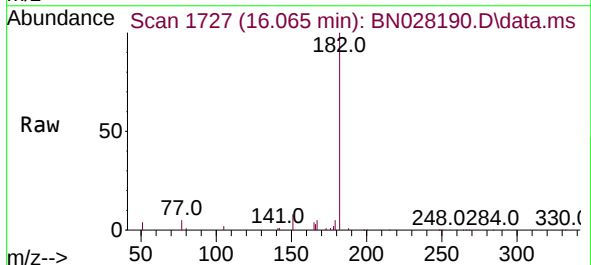
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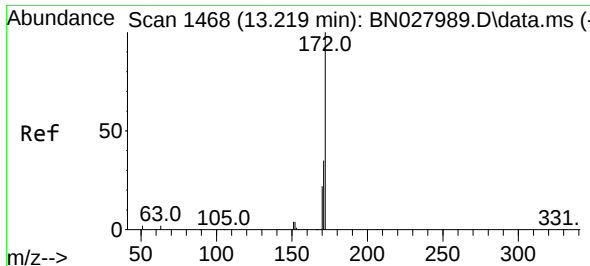
Tgt Ion:164 Resp: 7917
Ion Ratio Lower Upper
164 100
162 115.5 80.8 121.2
160 54.1 36.4 54.6



#14
2,4,6-Tribromophenol
Concen: 0.016 ng
RT: 16.065 min Scan# 1727
Delta R.T. -0.012 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

Tgt Ion:330 Resp: 57
Ion Ratio Lower Upper
330 100
332 138.6 78.1 117.1#
141 0.0 33.4 50.2#

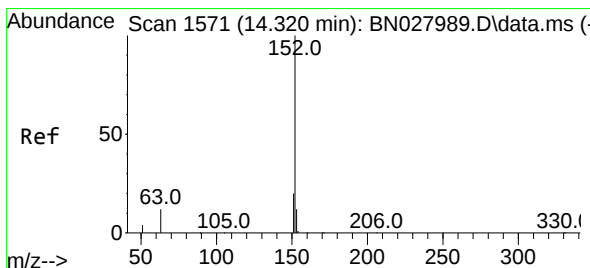
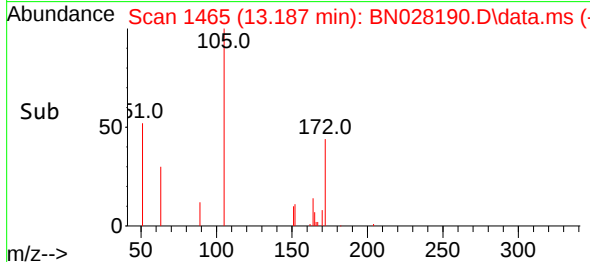
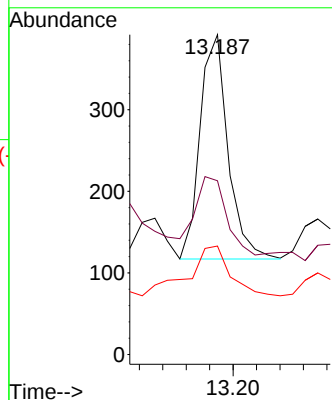
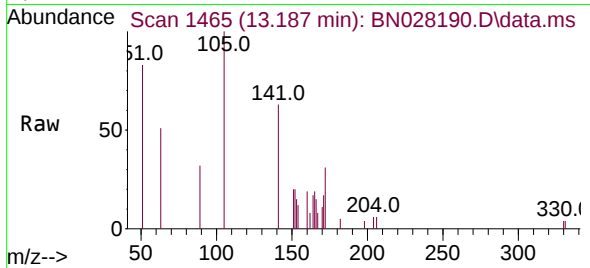




#15
2-Fluorobiphenyl
Concen: 0.016 ng
RT: 13.187 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

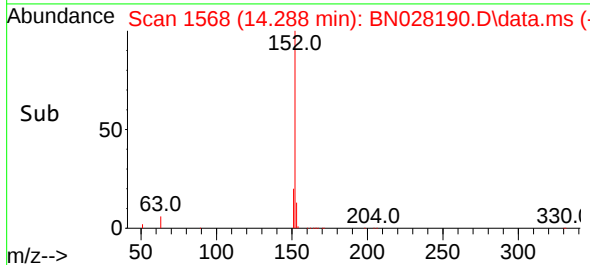
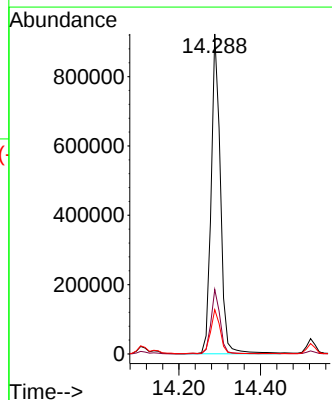
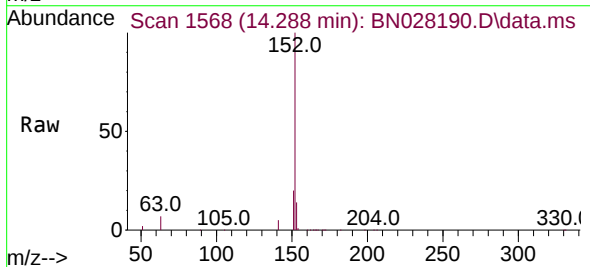
Instrument :
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I-4(0-5)

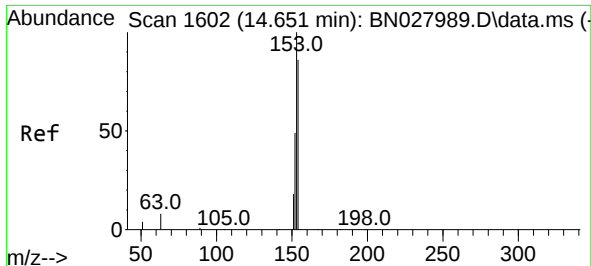
Tgt Ion:172 Resp: 456
Ion Ratio Lower Upper
172 100
171 54.3 28.1 42.1#
170 33.9 18.4 27.6#



#16
Acenaphthylene
Concen: 41.535 ng
RT: 14.288 min Scan# 1568
Delta R.T. -0.011 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

Tgt Ion:152 Resp: 1456693
Ion Ratio Lower Upper
152 100
151 19.9 15.8 23.6
153 14.3 10.2 15.4

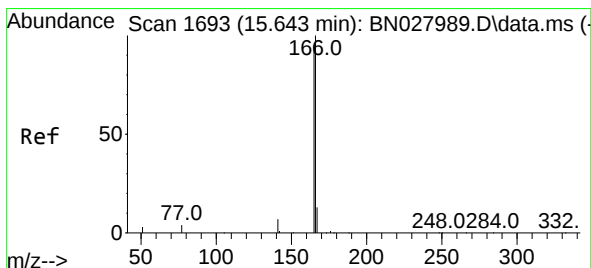
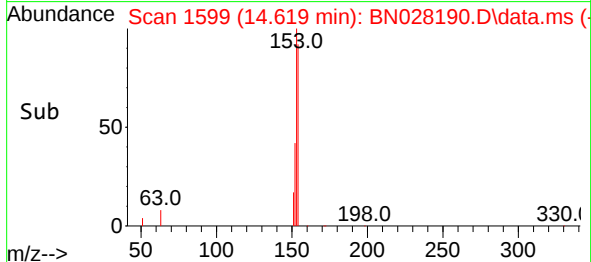
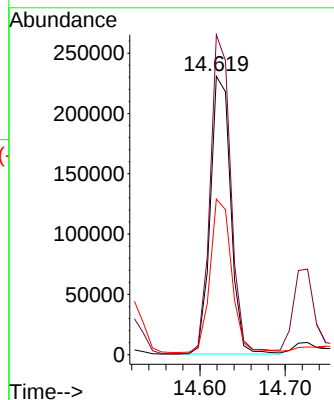
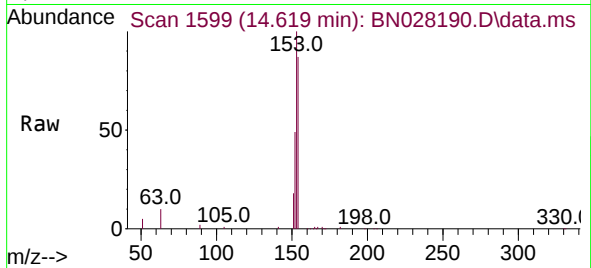




#17
Acenaphthene
Concen: 17.099 ng
RT: 14.619 min Scan# 1599
Delta R.T. -0.011 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

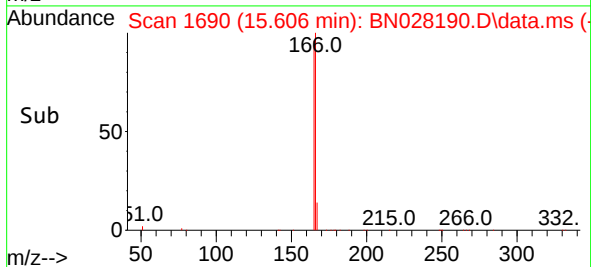
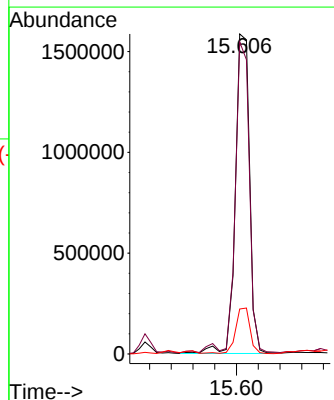
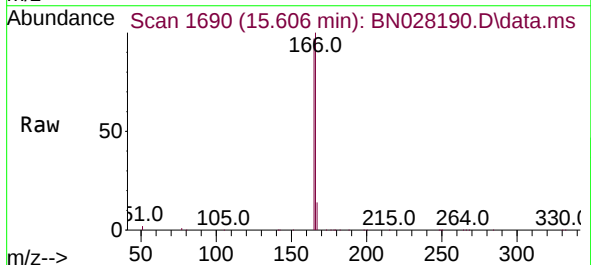
Instrument :
BNA_N
ClientSampleId :
I-4(0-5)

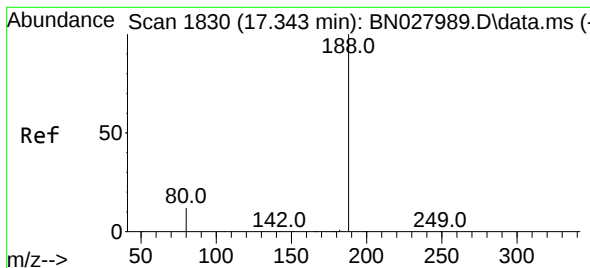
Tgt Ion:154 Resp: 382284
Ion Ratio Lower Upper
154 100
153 115.8 90.8 136.2
152 58.4 43.9 65.9



#18
Fluorene
Concen: 98.427 ng
RT: 15.606 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

Tgt Ion:166 Resp: 2857963
Ion Ratio Lower Upper
166 100
165 97.2 77.8 116.8
167 14.7 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: BN028190.D

Acq: 10 Oct 2023 09:50

Instrument :

BNA_N

ClientSampleId :

1-4(0-5)

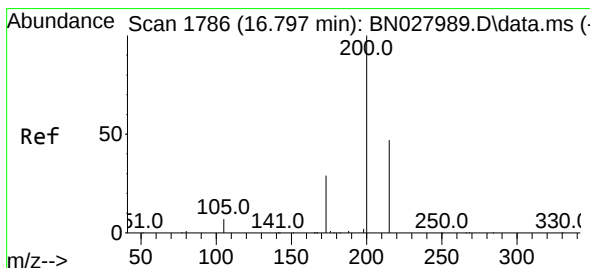
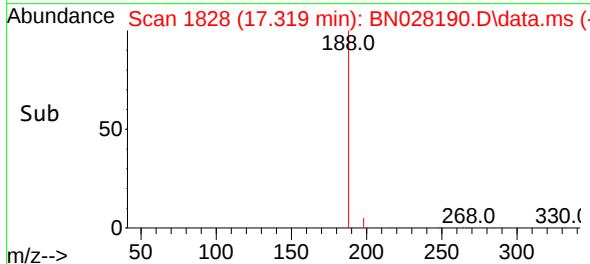
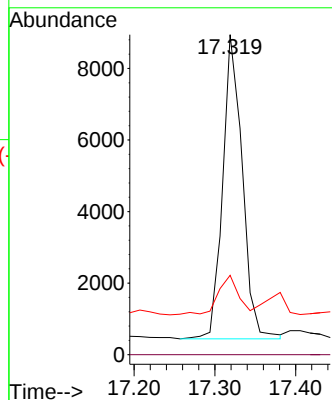
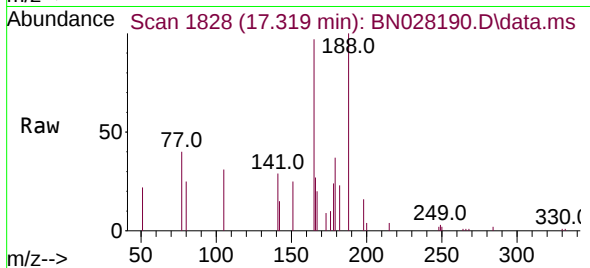
Tgt Ion:188 Resp: 14342

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 24.8 10.2 15.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 6.069 ng

RT: 16.773 min Scan# 1784

Delta R.T. -0.012 min

Lab File: BN028190.D

Acq: 10 Oct 2023 09:50

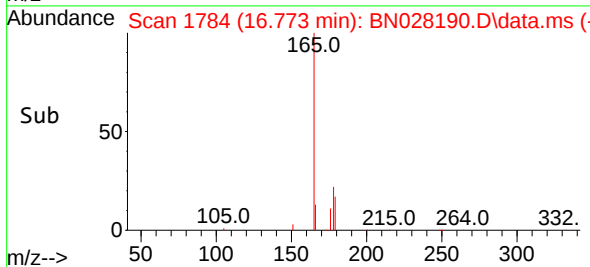
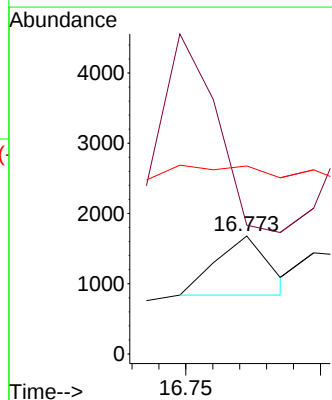
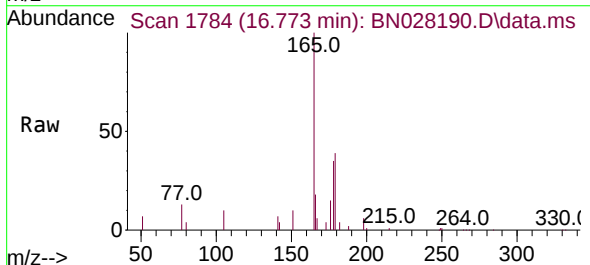
Tgt Ion:198 Resp: 1157

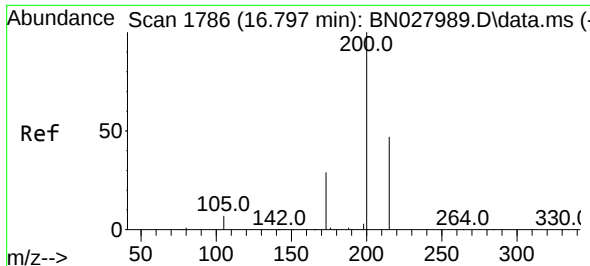
Ion Ratio Lower Upper

198 100

51 109.2 180.7 271.1#

105 159.4 222.2 333.2#

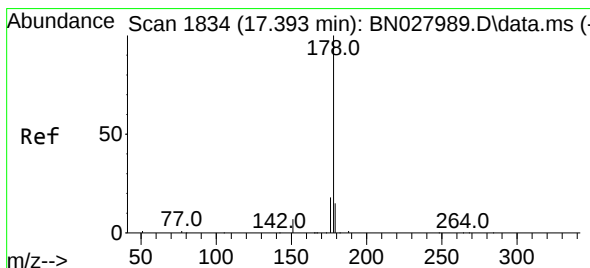
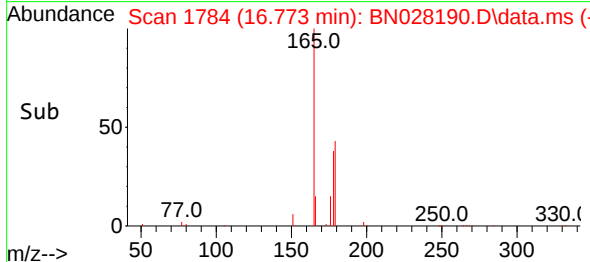
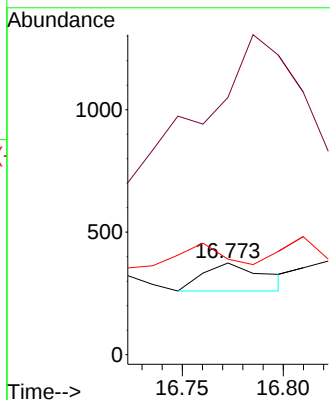
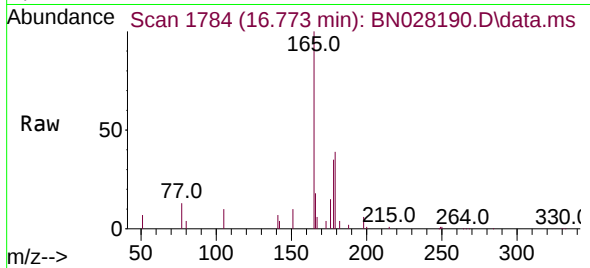




#23
Atrazine
Concen: 0.037 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

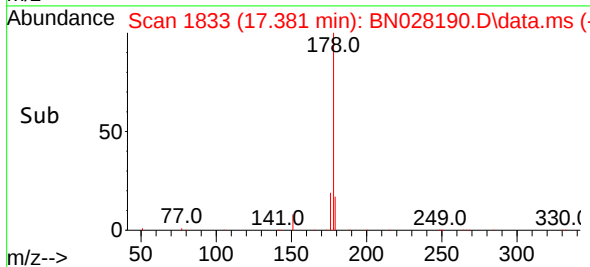
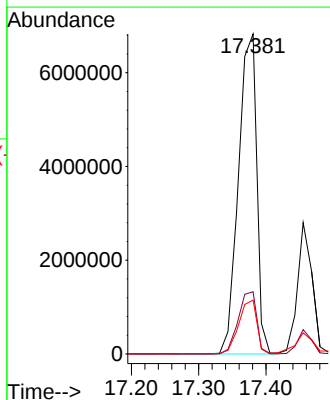
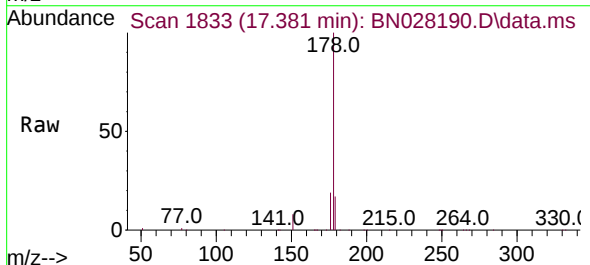
Instrument :
BNA_N
ClientSampleId :
I-4(0-5)

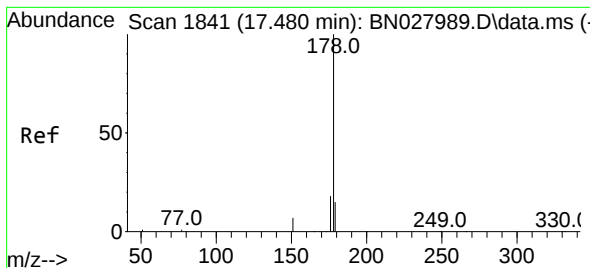
Tgt Ion:200 Resp: 244
Ion Ratio Lower Upper
200 100
173 280.7 24.7 37.1#
215 104.3 39.0 58.6#



#25
Phenanthrene
Concen: 333.820 ng
RT: 17.381 min Scan# 1833
Delta R.T. 0.012 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

Tgt Ion:178 Resp:12907378
Ion Ratio Lower Upper
178 100
176 19.7 15.3 22.9
179 16.7 12.4 18.6





#26

Anthracene

Concen: 114.526 ng

RT: 17.455 min Scan# 1839

Delta R.T. 0.000 min

Lab File: BN028190.D

Acq: 10 Oct 2023 09:50

Instrument :

BNA_N

ClientSampleId :

1-4(0-5)

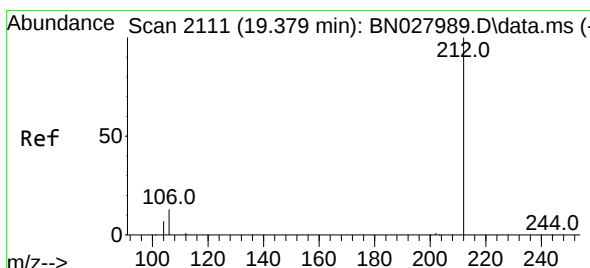
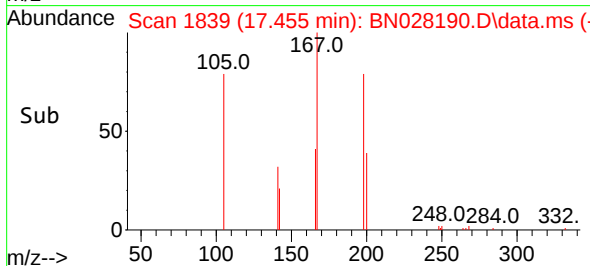
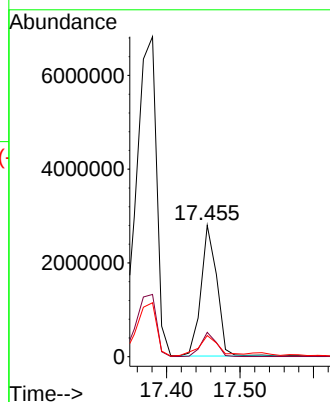
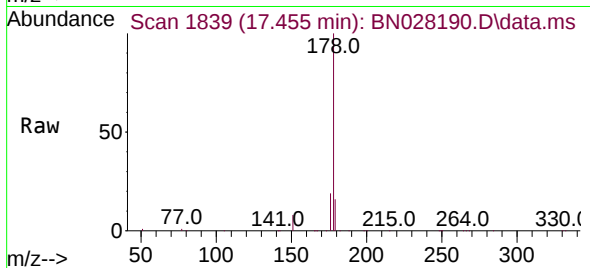
Tgt Ion:178 Resp: 4185580

Ion Ratio Lower Upper

178 100

176 18.1 14.7 22.1

179 20.1 12.2 18.2#



#27

Fluoranthene-d10

Concen: 0.155 ng

RT: 19.379 min Scan# 2111

Delta R.T. 0.023 min

Lab File: BN028190.D

Acq: 10 Oct 2023 09:50

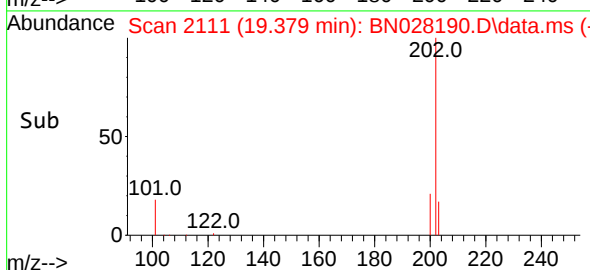
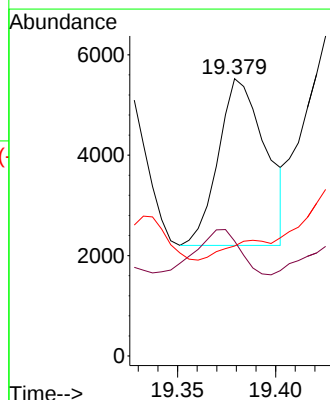
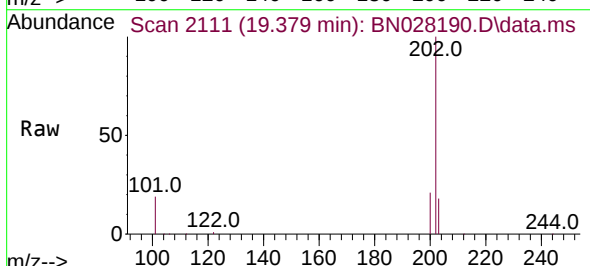
Tgt Ion:212 Resp: 5568

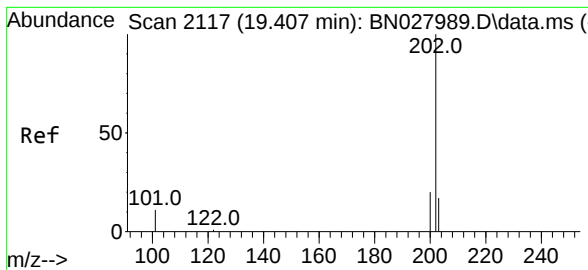
Ion Ratio Lower Upper

212 100

106 24.8 11.3 16.9#

104 11.1 6.4 9.6#





#28

Fluoranthene

Concen: 225.824 ng

RT: 19.398 min Scan# 2115

Delta R.T. 0.014 min

Lab File: BN028190.D

Acq: 10 Oct 2023 09:50

Instrument :

BNA_N

ClientSampleId :

I-4(0-5)

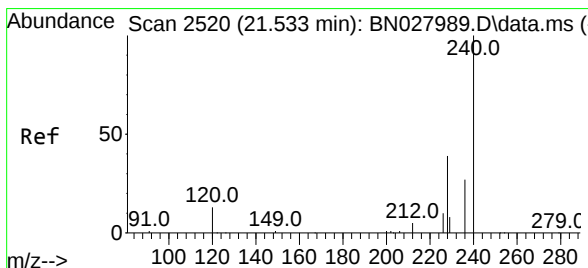
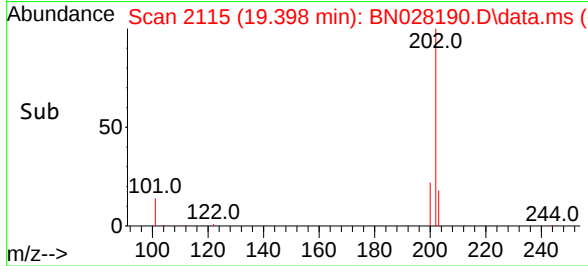
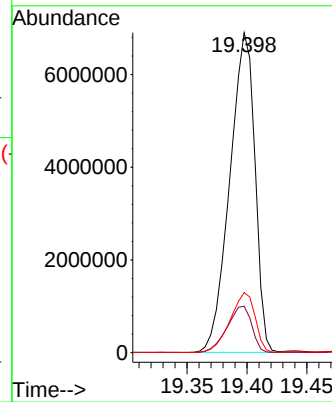
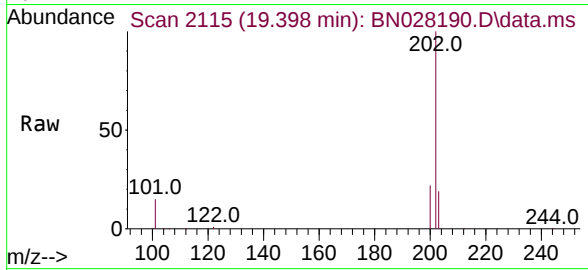
Tgt Ion:202 Resp:10076964

Ion Ratio Lower Upper

202 100

101 14.3 9.8 14.6

203 18.6 13.8 20.8



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.524 min Scan# 2519

Delta R.T. 0.009 min

Lab File: BN028190.D

Acq: 10 Oct 2023 09:50

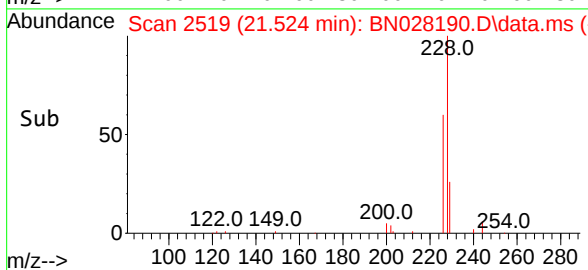
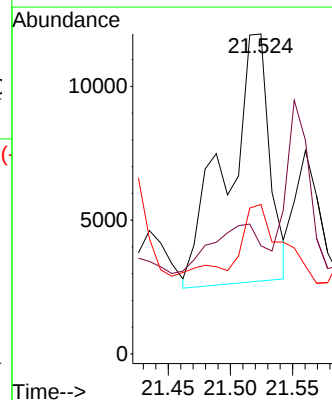
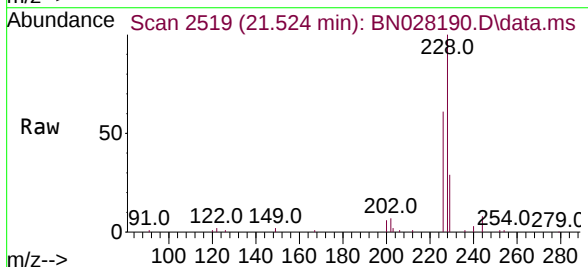
Tgt Ion:240 Resp: 22328

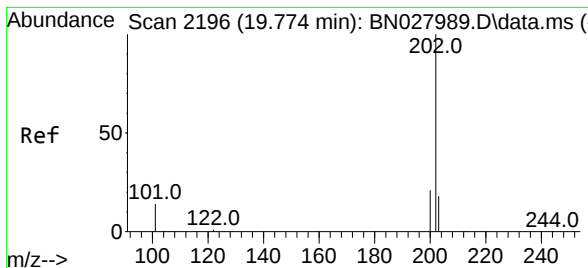
Ion Ratio Lower Upper

240 100

120 33.8 13.8 20.6#

236 46.7 22.6 33.8#





#30

Pyrene

Concen: 108.123 ng

RT: 19.765 min Scan# 2196

Delta R.T. 0.014 min

Lab File: BN028190.D

Acq: 10 Oct 2023 09:50

Instrument :

BNA_N

ClientSampleId :

I-4(0-5)

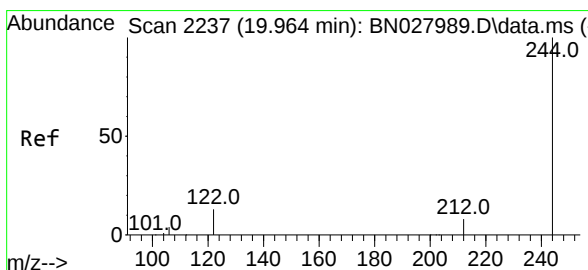
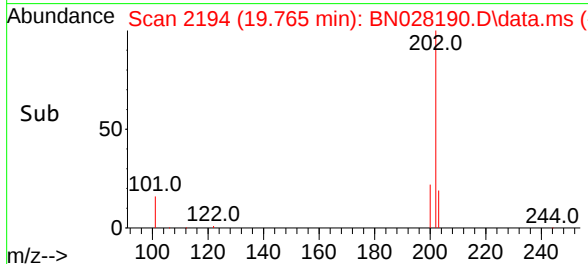
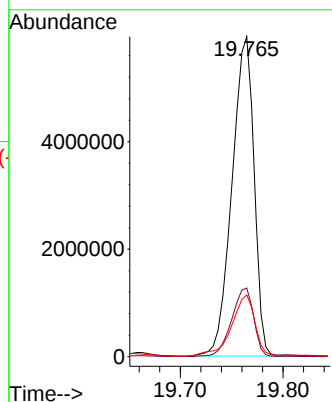
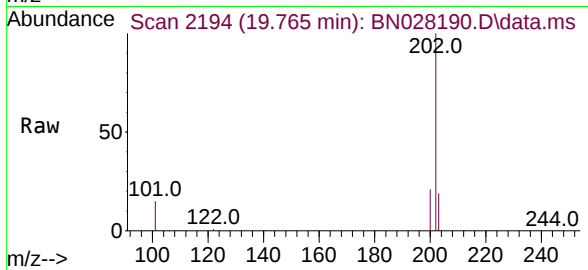
Tgt Ion:202 Resp: 8852570

Ion Ratio Lower Upper

202 100

200 21.4 16.5 24.7

203 20.4 14.7 22.1



#31

Terphenyl-d14

Concen: 0.117 ng

RT: 19.927 min Scan# 2229

Delta R.T. -0.014 min

Lab File: BN028190.D

Acq: 10 Oct 2023 09:50

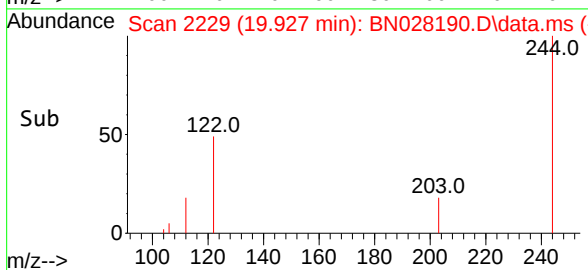
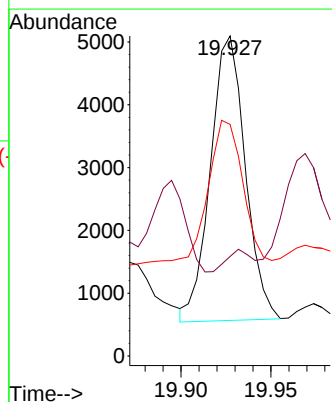
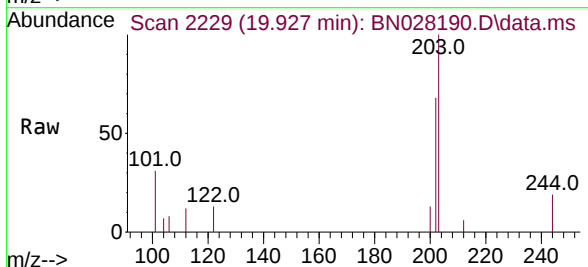
Tgt Ion:244 Resp: 6108

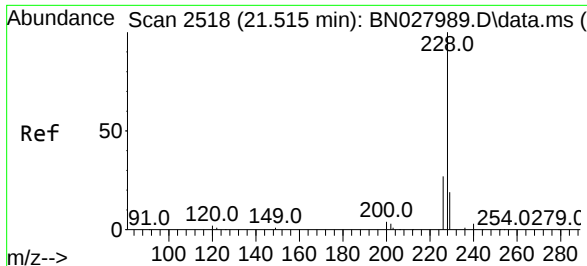
Ion Ratio Lower Upper

244 100

212 31.1 6.6 9.8#

122 72.4 11.4 17.0#

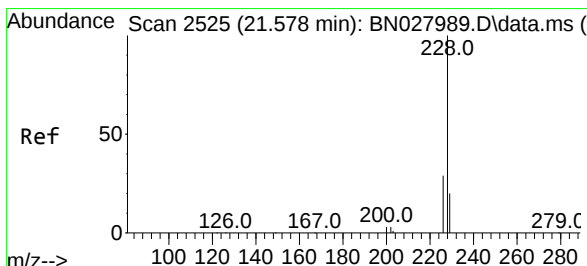
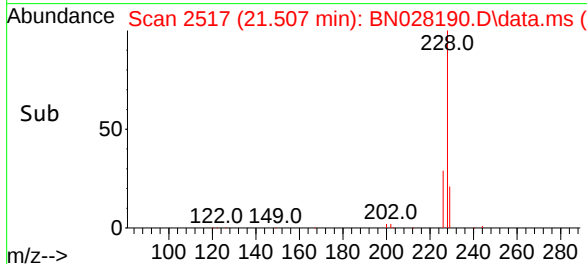
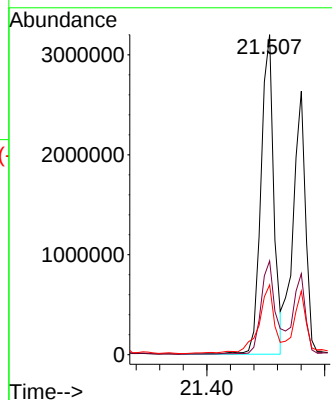
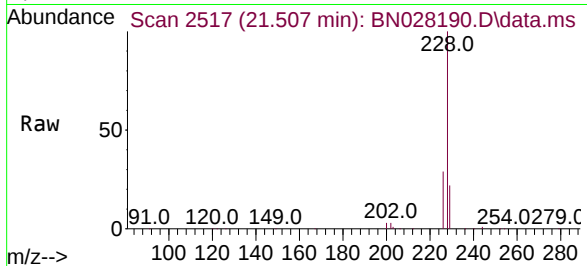




#32
Benzo(a)anthracene
Concen: 63.692 ng
RT: 21.507 min Scan# 21507
Delta R.T. 0.009 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

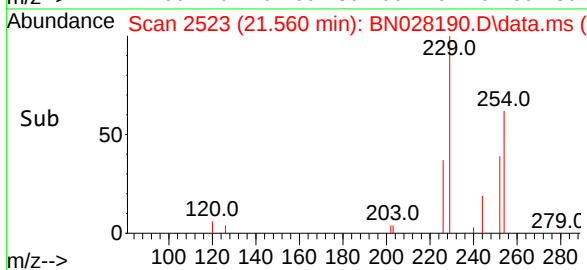
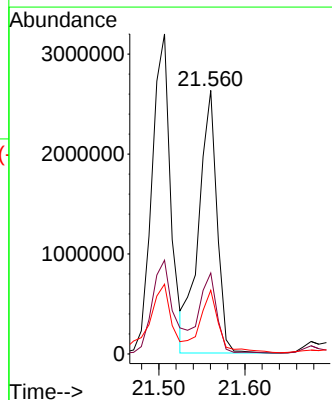
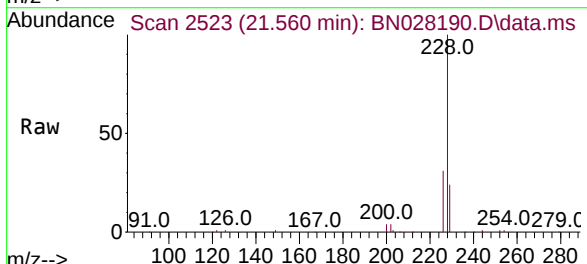
Instrument :
BNA_N
ClientSampleId :
I-4(0-5)

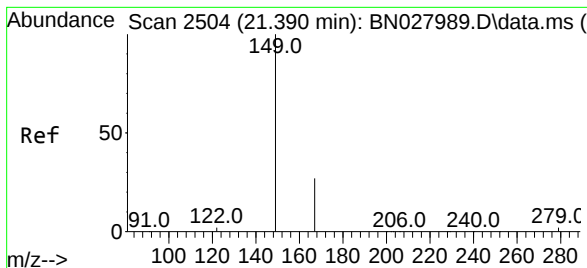
Tgt Ion:228 Resp: 4839187
Ion Ratio Lower Upper
228 100
226 29.3 22.0 33.0
229 21.8 16.0 24.0



#33
Chrysene
Concen: 53.108 ng
RT: 21.560 min Scan# 2523
Delta R.T. 0.009 min
Lab File: BN028190.D
Acq: 10 Oct 2023 09:50

Tgt Ion:228 Resp: 3888623
Ion Ratio Lower Upper
228 100
226 30.7 23.8 35.8
229 24.1 16.6 25.0

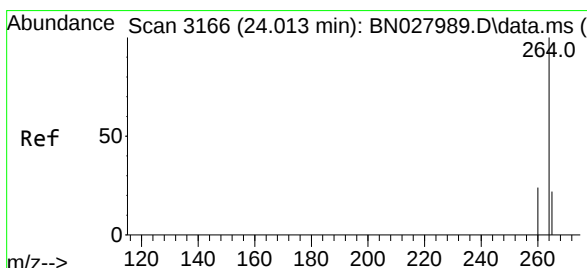
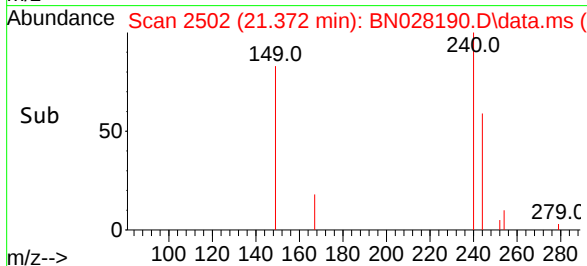
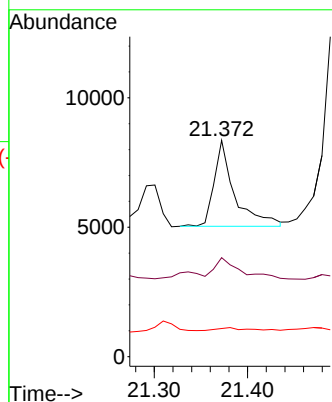
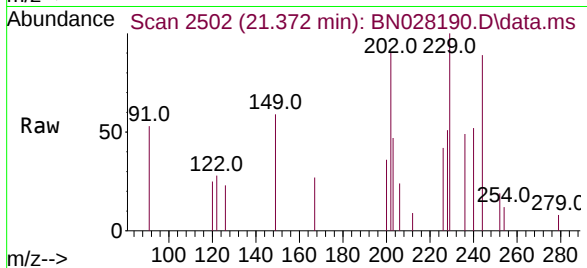




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.102 ng
 RT: 21.372 min Scan# 21
 Delta R.T. 0.009 min
 Lab File: BN028190.D
 Acq: 10 Oct 2023 09:50

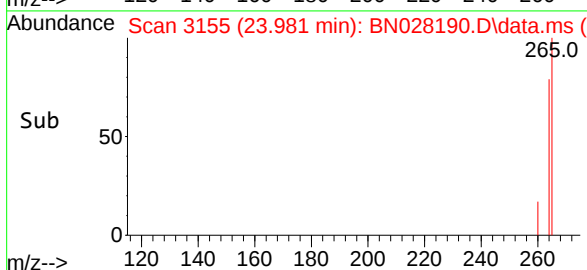
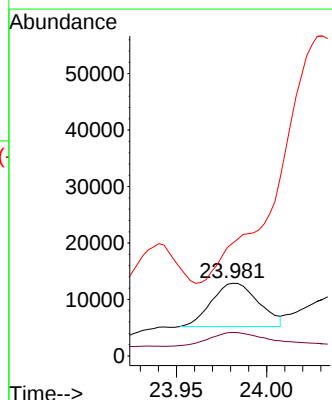
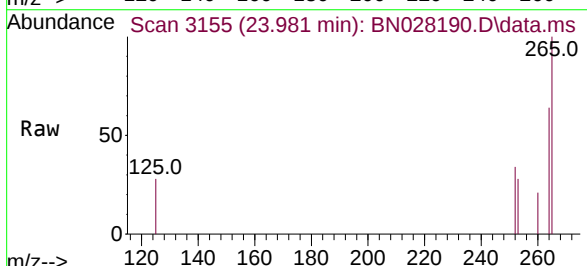
Instrument :
 BNA_N
 ClientSampleId :
 I-4(0-5)

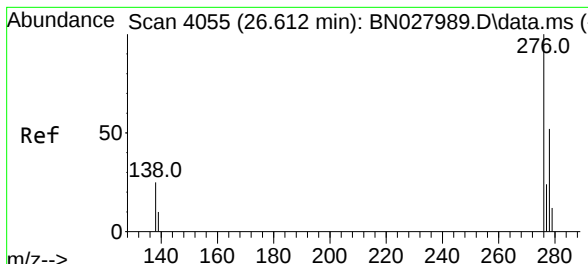
Tgt Ion:149 Resp: 5073
 Ion Ratio Lower Upper
 149 100
 167 28.0 22.1 33.1
 279 4.9 3.4 5.0



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.981 min Scan# 3155
 Delta R.T. 0.006 min
 Lab File: BN028190.D
 Acq: 10 Oct 2023 09:50

Tgt Ion:264 Resp: 13919
 Ion Ratio Lower Upper
 264 100
 260 32.5 20.2 30.4#
 265 155.4 54.8 82.2#



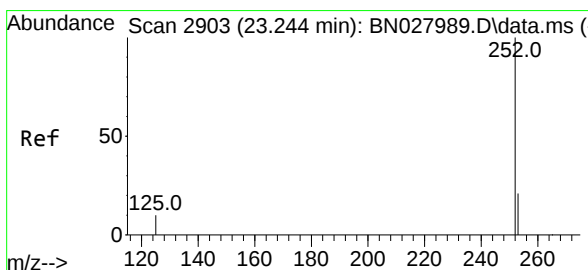
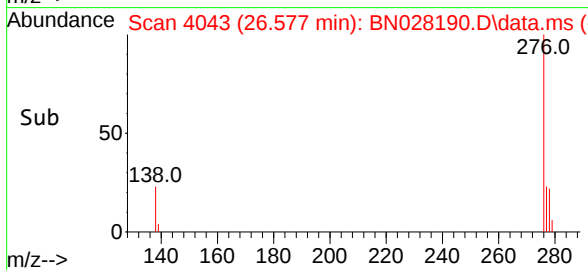
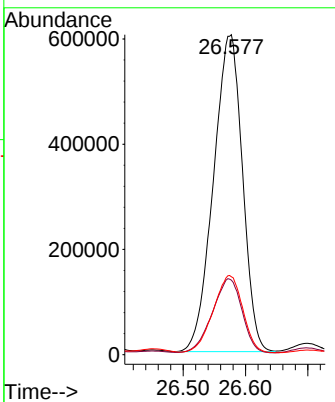
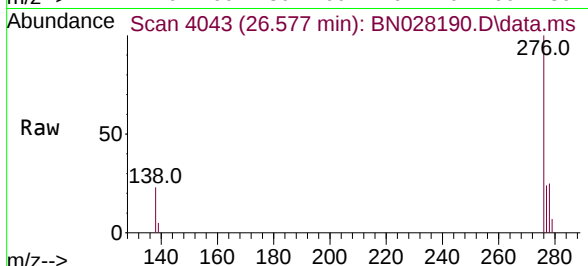


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 41.612 ng
 RT: 26.577 min Scan# 4055
 Delta R.T. 0.021 min
 Lab File: BN028190.D
 Acq: 10 Oct 2023 09:50

Instrument :
 BNA_N
 ClientSampleId :
 I-4(0-5)

Tgt Ion:276 Resp: 1948223

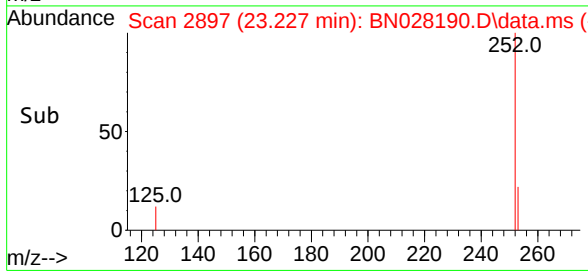
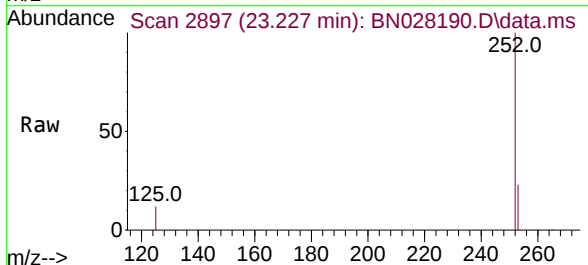
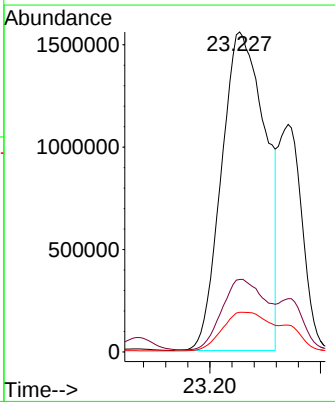
Ion	Ratio	Lower	Upper
276	100		
138	23.8	20.9	31.3
277	24.8	19.8	29.6

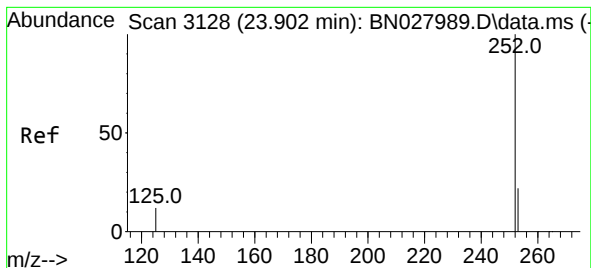


#37
 Benzo(b)fluoranthene
 Concen: 95.424 ng
 RT: 23.227 min Scan# 2897
 Delta R.T. 0.015 min
 Lab File: BN028190.D
 Acq: 10 Oct 2023 09:50

Tgt Ion:252 Resp: 4289655

Ion	Ratio	Lower	Upper
252	100		
253	22.7	22.9	34.3#
125	12.4	13.8	20.8#





#39

Benzo(a)pyrene

Concen: 17.843 ng

RT: 24.037 min Scan# 31

Delta R.T. 0.173 min

Lab File: BN028190.D

Acq: 10 Oct 2023 09:50

Instrument :

BN028190.D

ClientSampleId :

1-4(0-5)

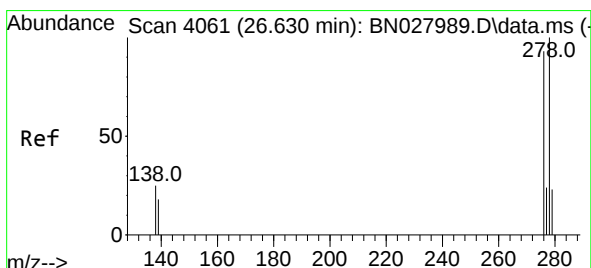
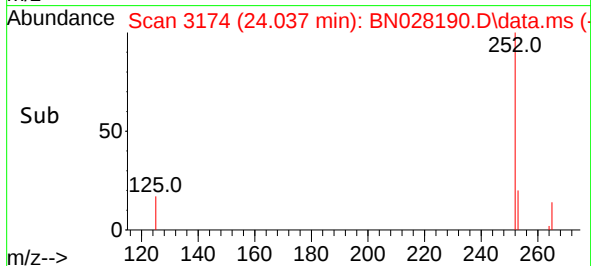
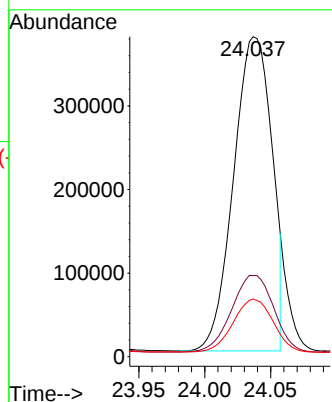
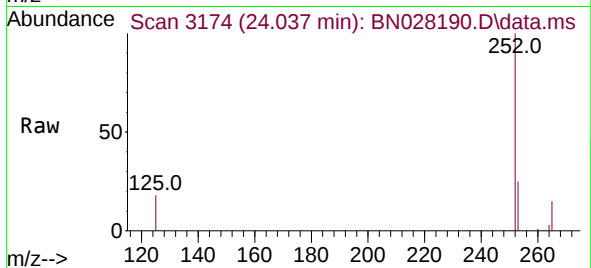
Tgt Ion:252 Resp: 758463

Ion Ratio Lower Upper

252 100

253 25.4 25.0 37.4

125 18.0 16.6 24.8



#40

Dibenzo(a,h)anthracene

Concen: 15.316 ng

RT: 26.580 min Scan# 4044

Delta R.T. 0.003 min

Lab File: BN028190.D

Acq: 10 Oct 2023 09:50

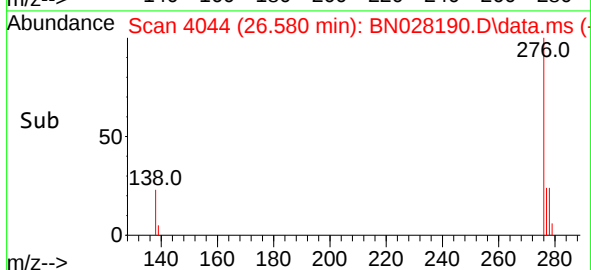
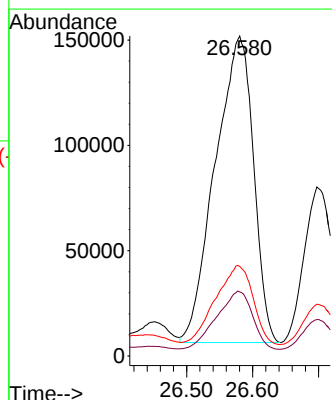
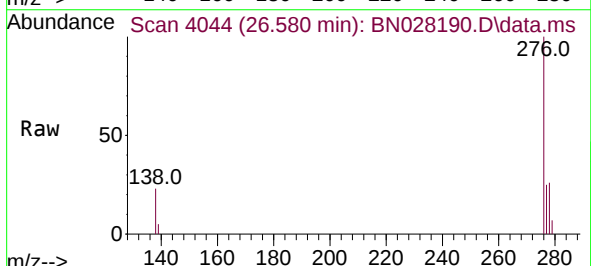
Tgt Ion:278 Resp: 586612

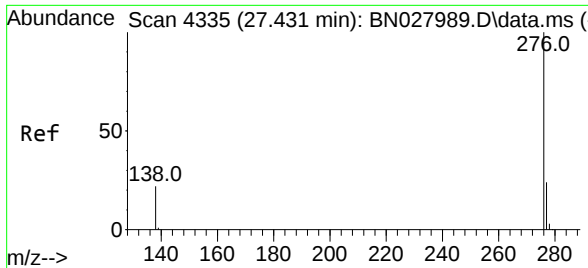
Ion Ratio Lower Upper

278 100

139 20.0 17.7 26.5

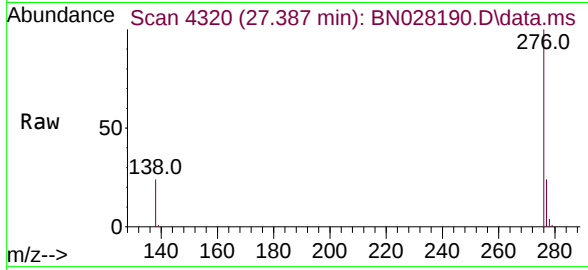
279 28.0 25.2 37.8





#41
 Benzo(g,h,i)perylene
 Concen: 45.057 ng
 RT: 27.387 min Scan# 41
 Delta R.T. 0.021 min
 Lab File: BN028190.D
 Acq: 10 Oct 2023 09:50

Instrument :
 BNA_N
 ClientSampleId :
 I-4(0-5)



Tgt Ion:276 Resp: 1771323

Ion	Ratio	Lower	Upper
276	100		
277	24.0	22.1	33.1
138	23.6	20.8	31.2

