

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101023\
 Data File : BN028225.D
 Acq On : 11 Oct 2023 08:58
 Operator : MA/JU
 Sample : 04767-09
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 Q-1(5-10)

Quant Time: Oct 11 09:25:20 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

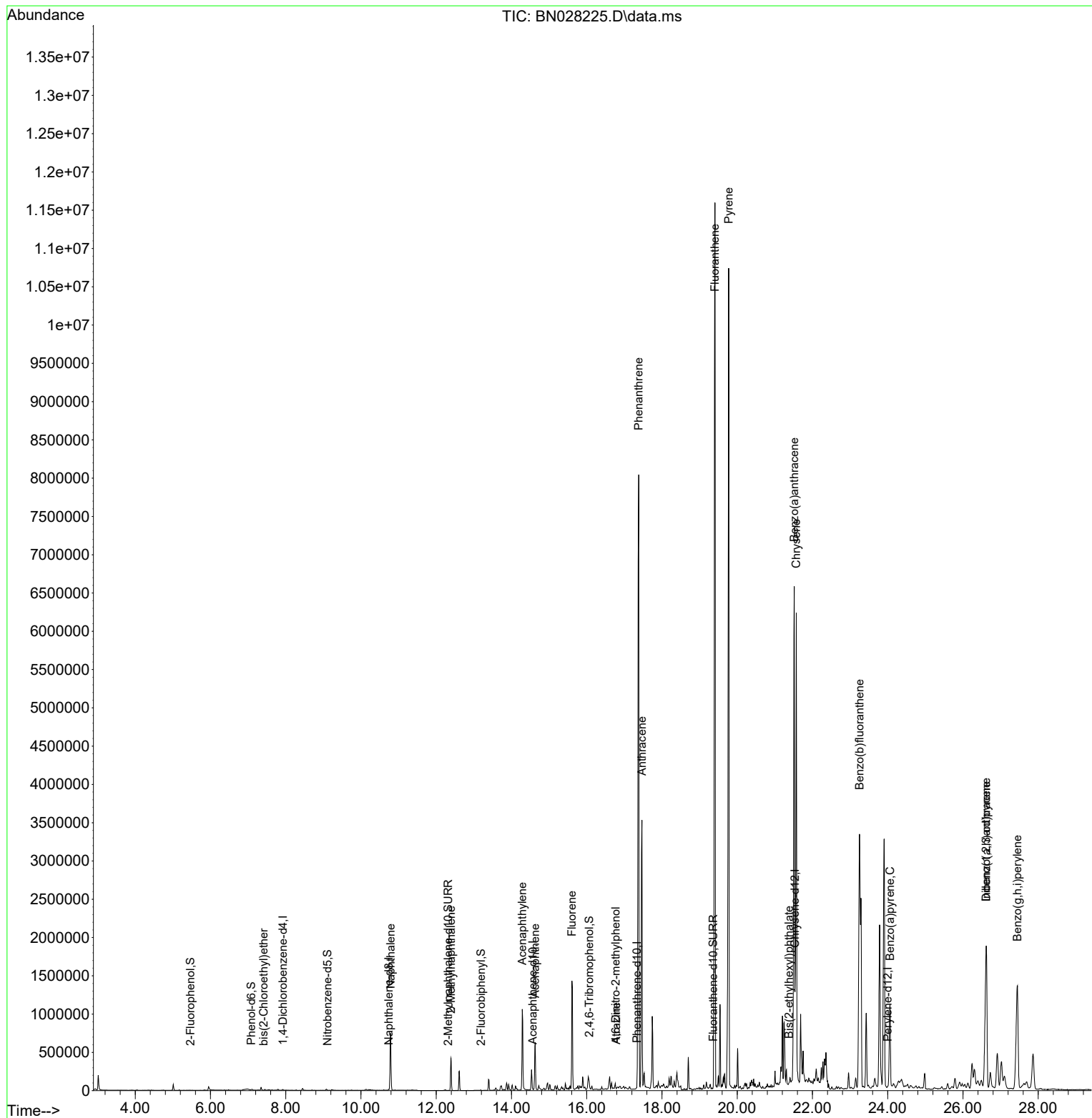
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	4017	0.400	ng	0.00
7) Naphthalene-d8	10.735	136	13064	0.400	ng	0.00
13) Acenaphthene-d10	14.566	164	10923	0.400	ng	0.00
19) Phenanthrene-d10	17.331	188	14219	0.400	ng	# 0.01
29) Chrysene-d12	21.533	240	23722	0.400	ng	# 0.02
35) Perylene-d12	23.999	264	18235	0.400	ng	# 0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.466	112	2200	0.184	ng	0.00
5) Phenol-d6	7.084	99	3066	0.203	ng	0.00
8) Nitrobenzene-d5	9.112	82	2686	0.242	ng	-0.01
11) 2-Methylnaphthalene-d10	12.317	152	3967	0.205	ng	0.00
14) 2,4,6-Tribromophenol	16.065	330	319	0.064	ng	-0.01
15) 2-Fluorobiphenyl	13.187	172	5338	0.136	ng	0.00
27) Fluoranthene-d10	19.360	212	8540	0.239	ng	0.00
31) Terphenyl-d14	19.978	244	531	0.010	ng	0.04
Target Compounds						
6) bis(2-Chloroethyl)ether	7.409	93	292	0.024	ng	# 1
9) Naphthalene	10.789	128	991671	29.379	ng	98
12) 2-Methylnaphthalene	12.392	142	289323	12.253	ng	99
16) Acenaphthylene	14.288	152	1265439	26.152	ng	99
17) Acenaphthene	14.630	154	332869	10.791	ng	99
18) Fluorene	15.606	166	1156476	28.868	ng	98
20) 4,6-Dinitro-2-methylph...	16.773	198	412	2.180	ng	# 58
23) Atrazine	16.785	200	139	0.021	ng	# 1
25) Phenanthrene	17.381	178	9599409	250.415	ng	98
26) Anthracene	17.468	178	3970208	109.573	ng	98
28) Fluoranthene	19.407	202	13043333	294.828	ng	97
30) Pyrene	19.774	202	11317153	130.103	ng	# 94
32) Benzo(a)anthracene	21.515	228	6432596	79.689	ng	95
33) Chrysene	21.569	228	5478673	70.427	ng	96
34) Bis(2-ethylhexyl)phtha...	21.372	149	9796	0.185	ng	# 85
36) Indeno(1,2,3-cd)pyrene	26.618	276	3452127	56.282	ng	97
37) Benzo(b)fluoranthene	23.250	252	6960411	118.188	ng	# 90
39) Benzo(a)pyrene	24.060	252	1445474	25.957	ng	90
40) Dibenzo(a,h)anthracene	26.618	278	906426	18.065	ng	96
41) Benzo(g,h,i)perylene	27.443	276	3244327	62.993	ng	96

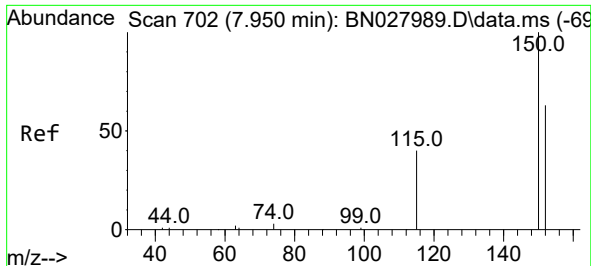
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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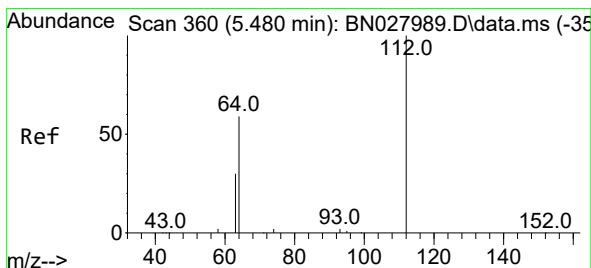
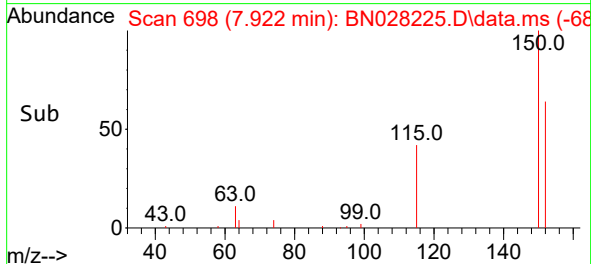
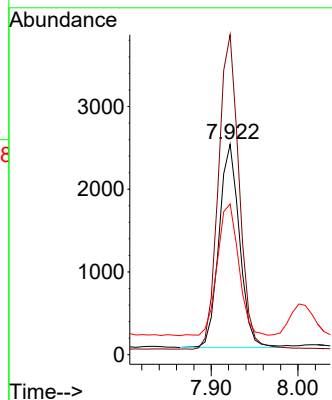
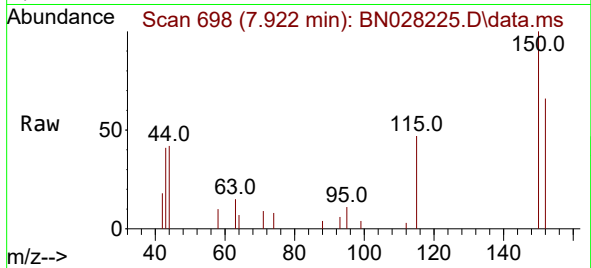




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.922 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN028225.D
 Acq: 11 Oct 2023 08:58

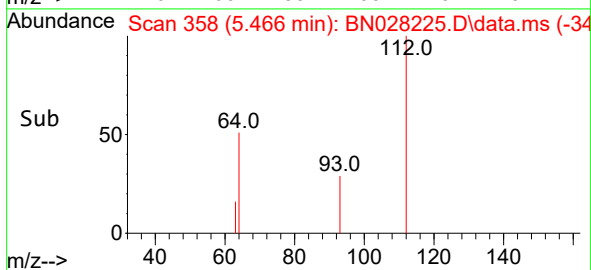
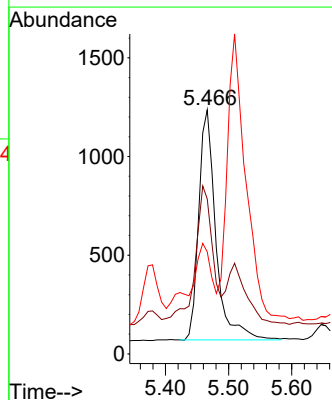
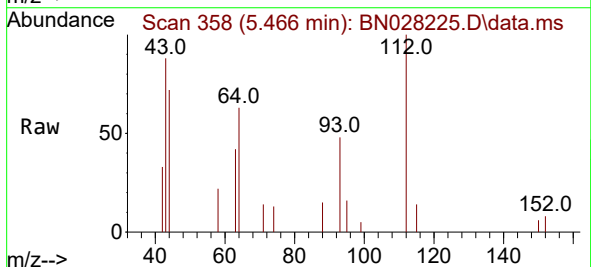
Instrument :
 BNA_N
 ClientSampleId :
 Q-1(5-10)

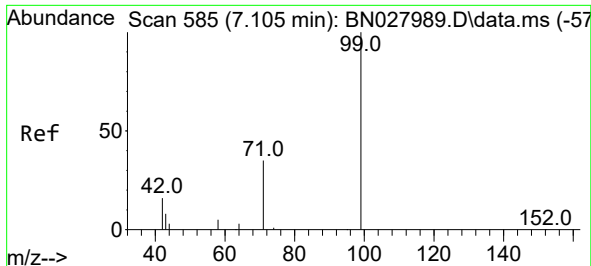
Tgt Ion:152 Resp: 4017
 Ion Ratio Lower Upper
 152 100
 150 152.0 125.6 188.4
 115 71.6 54.8 82.2



#4
 2-Fluorophenol
 Concen: 0.184 ng
 RT: 5.466 min Scan# 358
 Delta R.T. 0.000 min
 Lab File: BN028225.D
 Acq: 11 Oct 2023 08:58

Tgt Ion:112 Resp: 2200
 Ion Ratio Lower Upper
 112 100
 64 57.3 45.0 67.6
 63 32.0 23.4 35.0

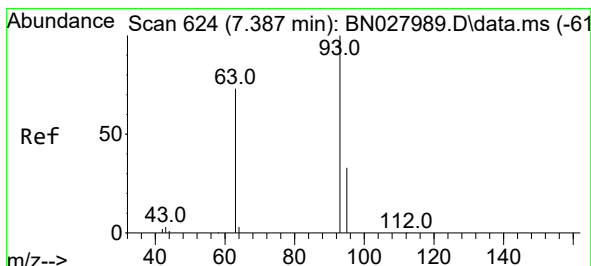
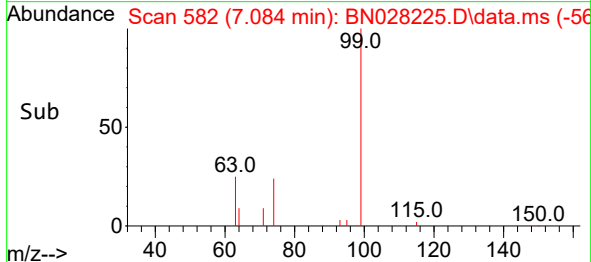
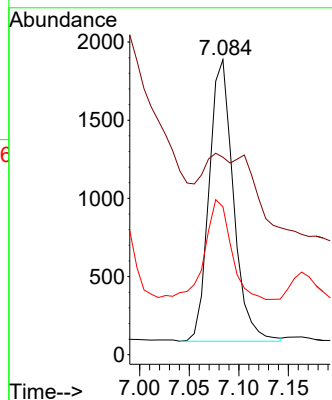
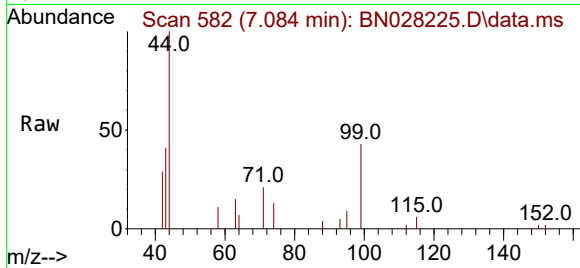




#5
Phenol-d6
Concen: 0.203 ng
RT: 7.084 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

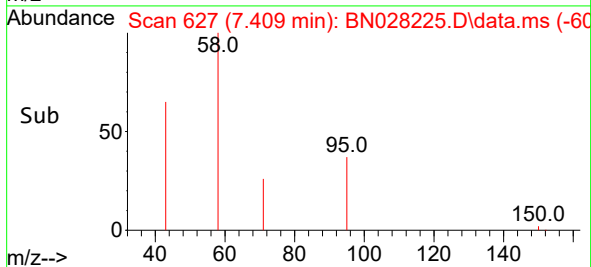
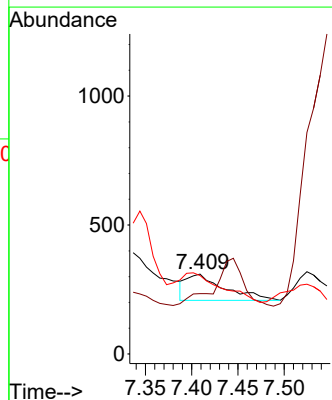
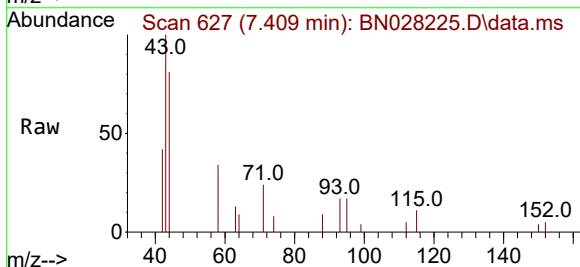
Instrument :
BNA_N
ClientSampleId :
Q-1(5-10)

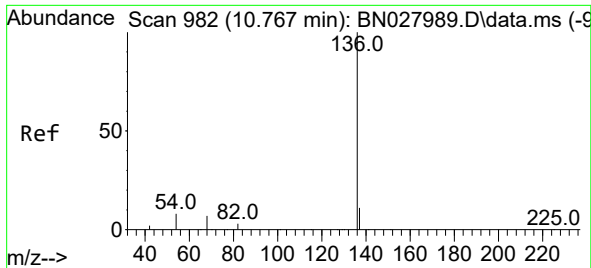
Tgt Ion: 99 Resp: 3066
Ion Ratio Lower Upper
99 100
42 68.8 14.6 22.0#
71 38.8 28.3 42.5



#6
bis(2-Chloroethyl)ether
Concen: 0.024 ng
RT: 7.409 min Scan# 627
Delta R.T. 0.043 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

Tgt Ion: 93 Resp: 292
Ion Ratio Lower Upper
93 100
63 0.0 58.8 88.2#
95 119.2 26.6 39.8#

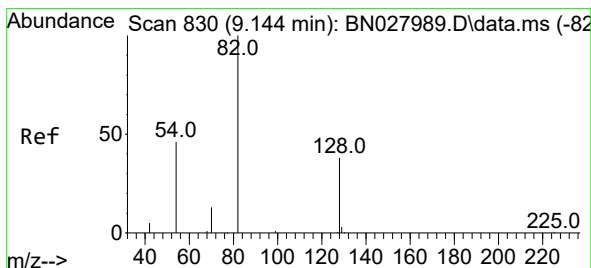
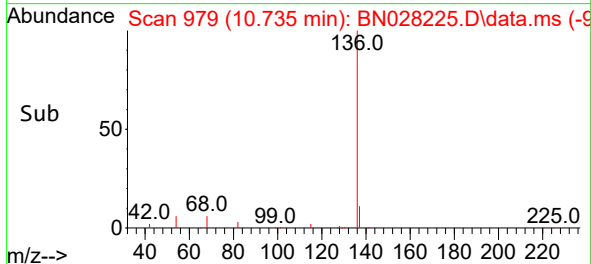
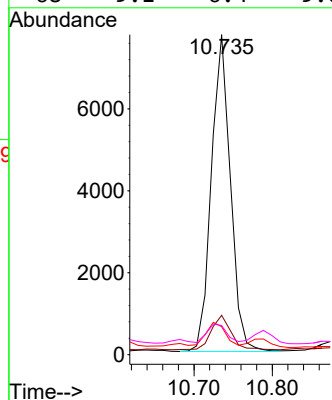
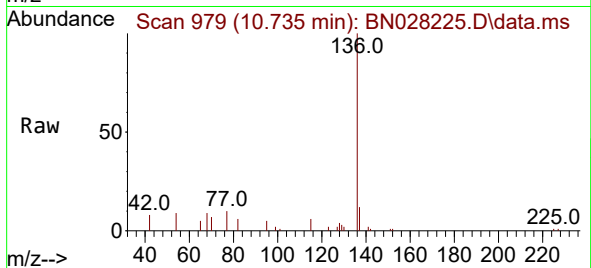




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.735 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

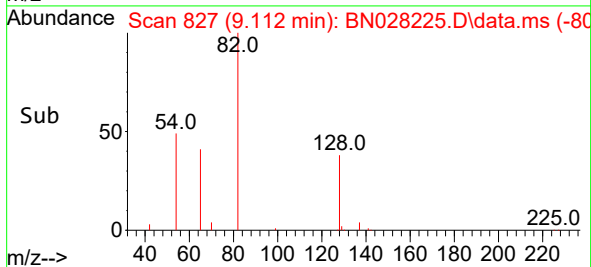
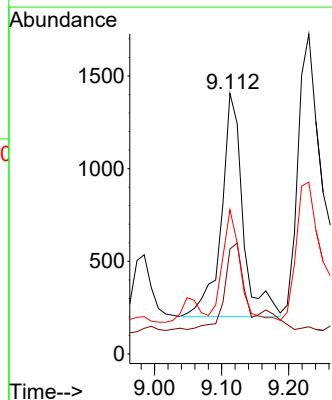
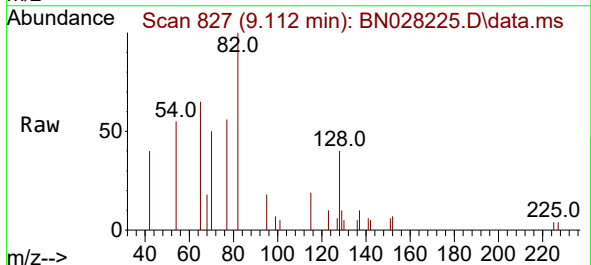
Instrument :
BNA_N
ClientSampleId :
Q-1(5-10)

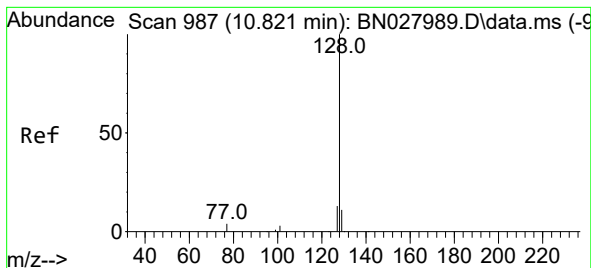
Tgt Ion:136 Resp: 13064
Ion Ratio Lower Upper
136 100
137 12.3 9.4 14.0
54 8.7 7.0 10.6
68 9.1 6.4 9.6



#8
Nitrobenzene-d5
Concen: 0.242 ng
RT: 9.112 min Scan# 827
Delta R.T. -0.011 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

Tgt Ion: 82 Resp: 2686
Ion Ratio Lower Upper
82 100
128 40.3 32.7 49.1
54 55.3 38.7 58.1





#9

Naphthalene

Concen: 29.379 ng

RT: 10.789 min Scan# 9

Delta R.T. 0.000 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

Instrument :

BNA_N

ClientSampleId :

Q-1(5-10)

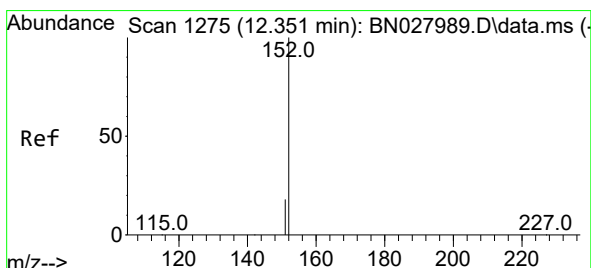
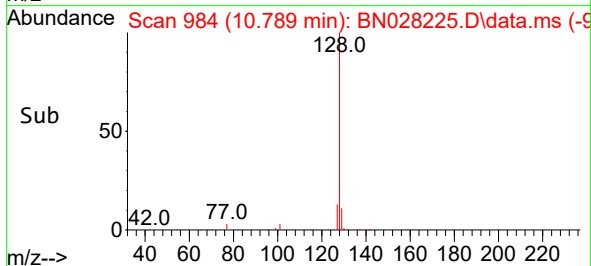
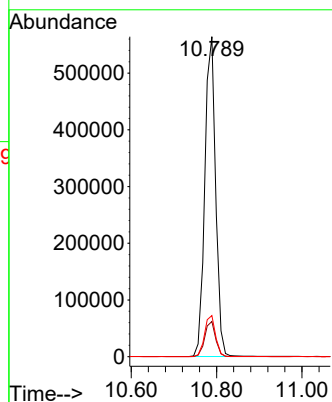
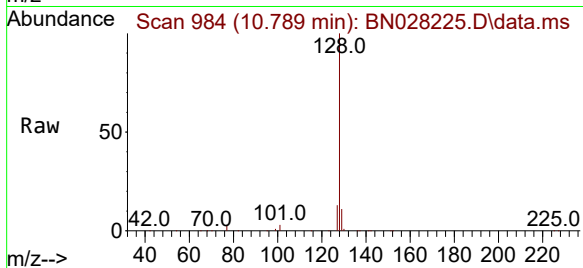
Tgt Ion:128 Resp: 991671

Ion Ratio Lower Upper

128 100

129 11.0 9.4 14.2

127 12.8 10.9 16.3



#11

2-Methylnaphthalene-d10

Concen: 0.205 ng

RT: 12.317 min Scan# 1266

Delta R.T. -0.008 min

Lab File: BN028225.D

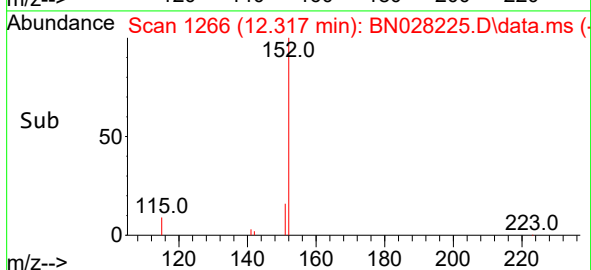
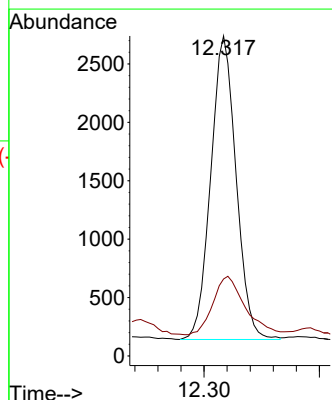
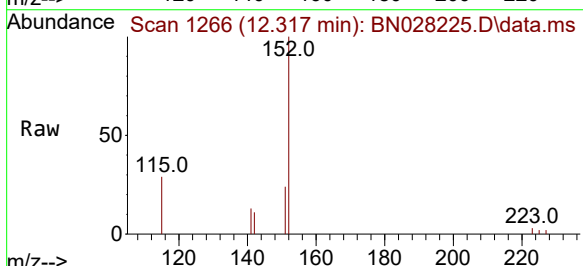
Acq: 11 Oct 2023 08:58

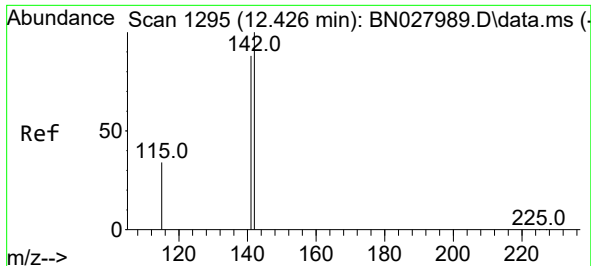
Tgt Ion:152 Resp: 3967

Ion Ratio Lower Upper

152 100

151 24.4 16.5 24.7





#12

2-Methylnaphthalene

Concen: 12.253 ng

RT: 12.392 min Scan# 11

Delta R.T. -0.008 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

Instrument :

BNA_N

ClientSampleId :

Q-1(5-10)

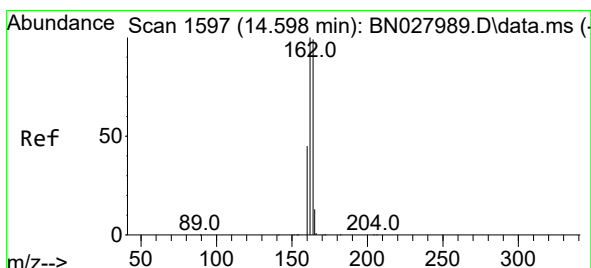
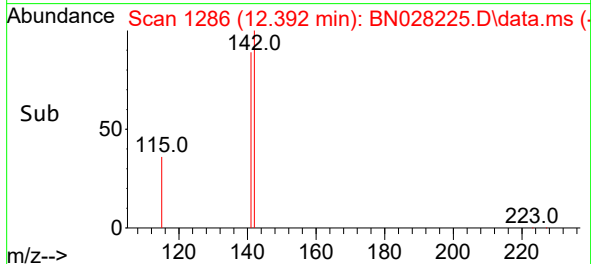
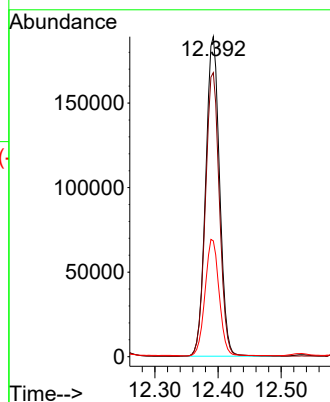
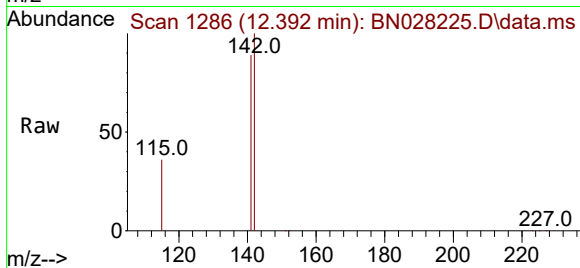
Tgt Ion:142 Resp: 289323

Ion Ratio Lower Upper

142 100

141 88.7 70.7 106.1

115 36.2 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: BN028225.D

Acq: 11 Oct 2023 08:58

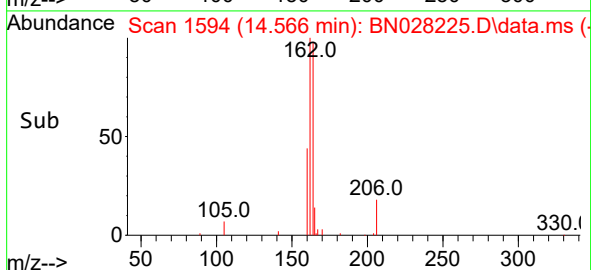
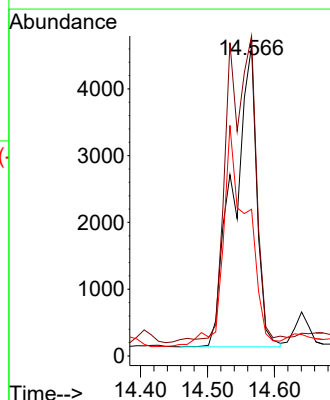
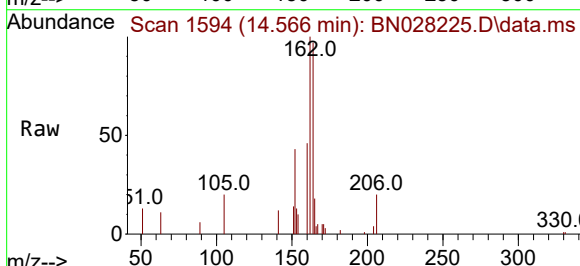
Tgt Ion:164 Resp: 10923

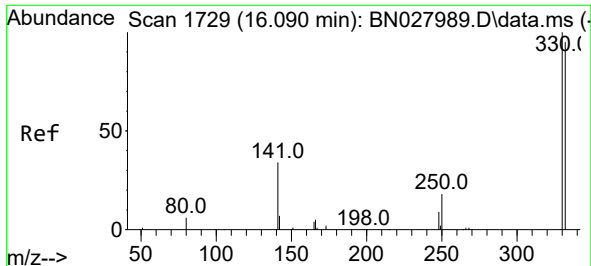
Ion Ratio Lower Upper

164 100

162 103.2 80.8 121.2

160 47.3 36.4 54.6

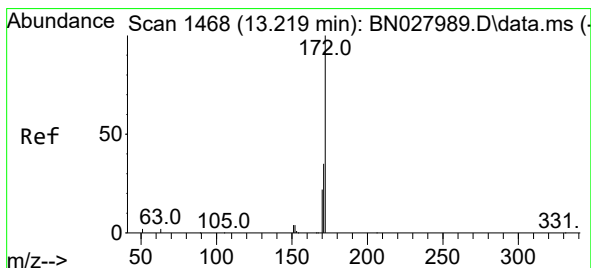
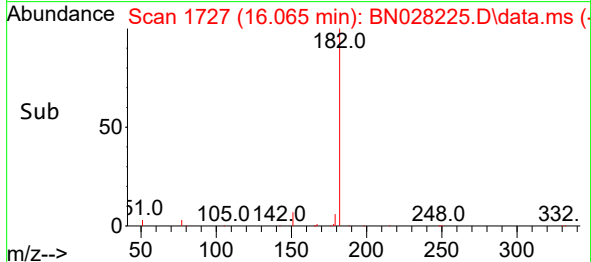
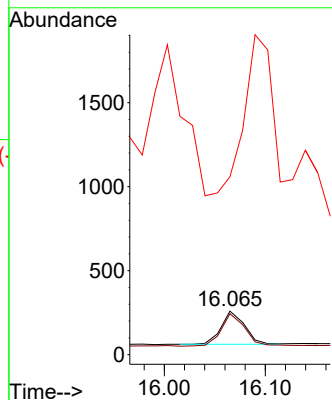
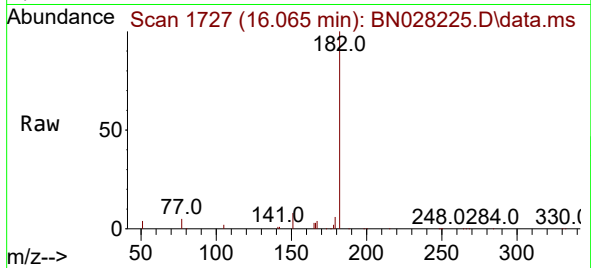




#14
2,4,6-Tribromophenol
Concen: 0.064 ng
RT: 16.065 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

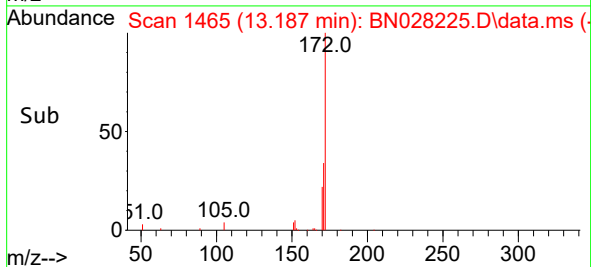
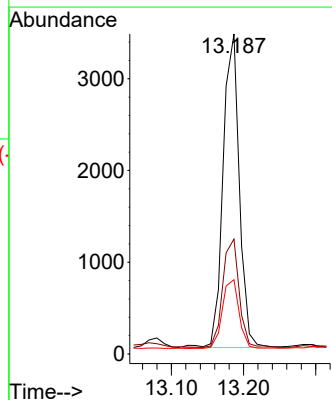
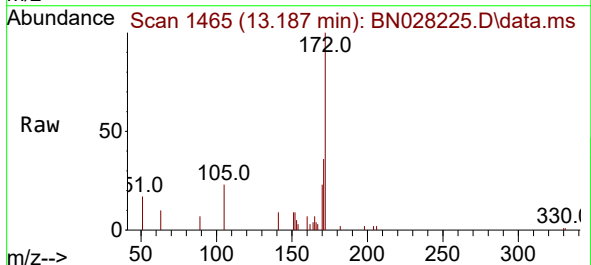
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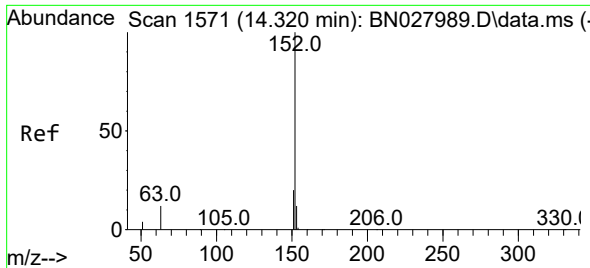
Tgt Ion:330 Resp: 319
Ion Ratio Lower Upper
330 100
332 101.9 78.1 117.1
141 0.0 33.4 50.2#



#15
2-Fluorobiphenyl
Concen: 0.136 ng
RT: 13.187 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

Tgt Ion:172 Resp: 5338
Ion Ratio Lower Upper
172 100
171 35.9 28.1 42.1
170 23.2 18.4 27.6

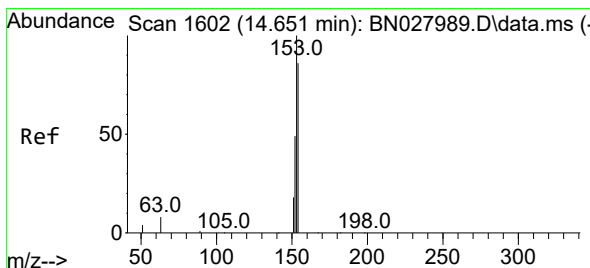
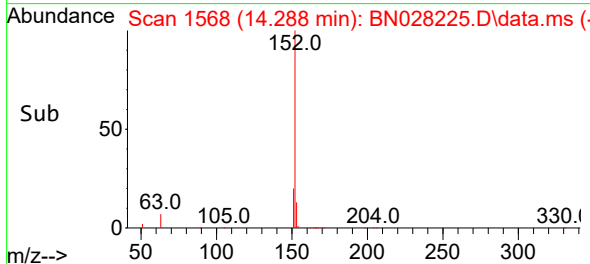
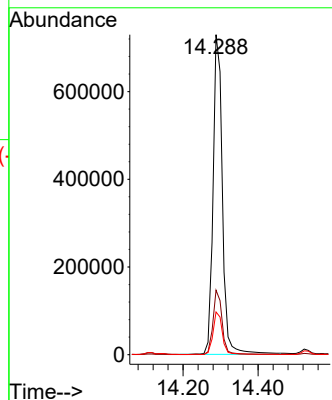
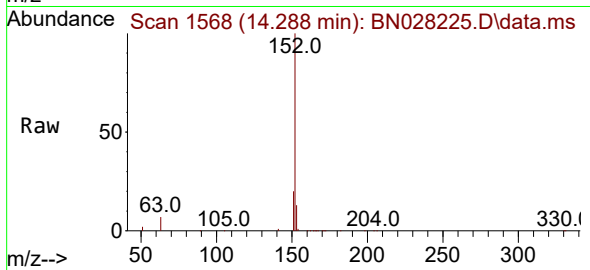




#16
Acenaphthylene
Concen: 26.152 ng
RT: 14.288 min Scan# 1568
Delta R.T. -0.011 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

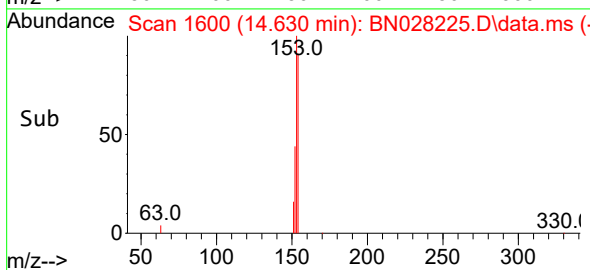
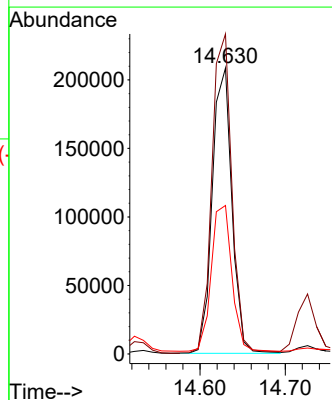
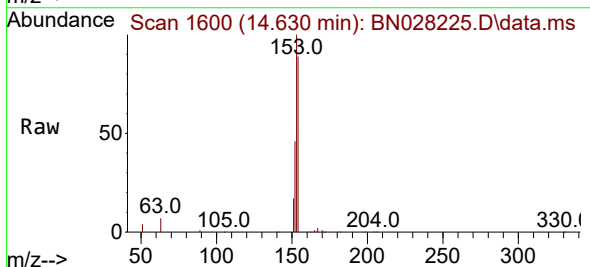
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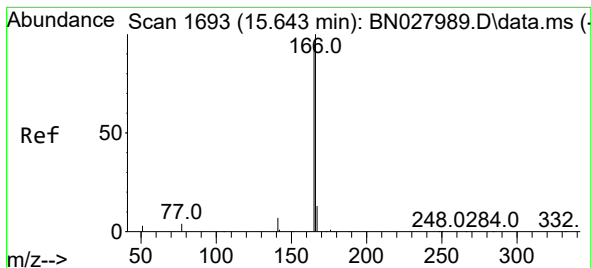
Tgt Ion:152 Resp: 1265439
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 13.4 10.2 15.4



#17
Acenaphthene
Concen: 10.791 ng
RT: 14.630 min Scan# 1600
Delta R.T. 0.000 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

Tgt Ion:154 Resp: 332869
Ion Ratio Lower Upper
154 100
153 113.7 90.8 136.2
152 53.8 43.9 65.9





#18

Fluorene

Concen: 28.868 ng

RT: 15.606 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

Instrument :

BNA_N

ClientSampleId :

Q-1(5-10)

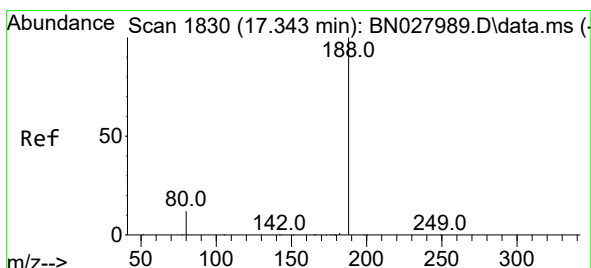
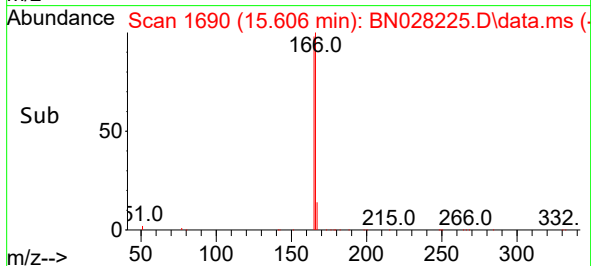
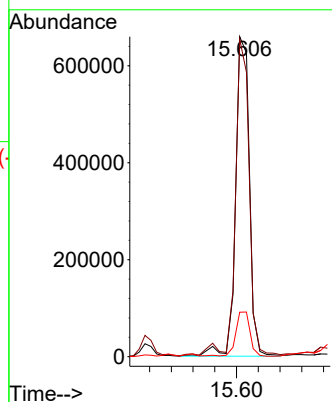
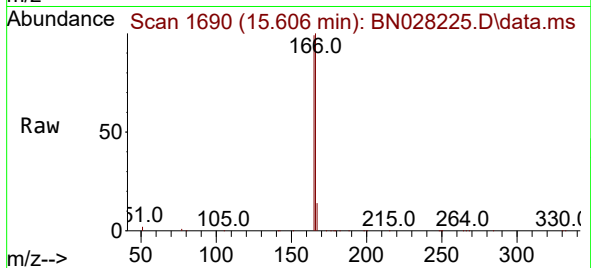
Tgt Ion:166 Resp: 1156476

Ion Ratio Lower Upper

166 100

165 98.8 77.8 116.8

167 14.4 10.7 16.1



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.331 min Scan# 1829

Delta R.T. 0.012 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

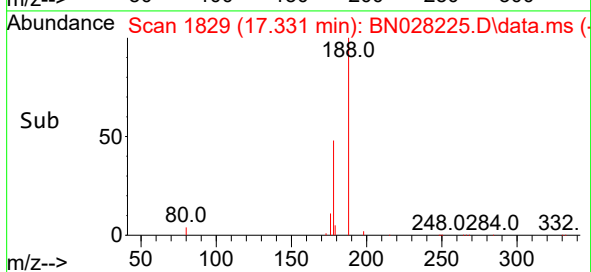
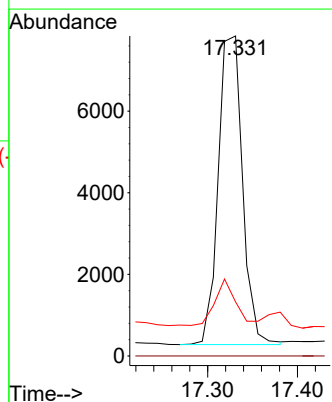
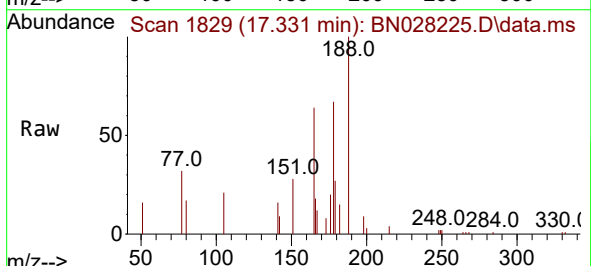
Tgt Ion:188 Resp: 14219

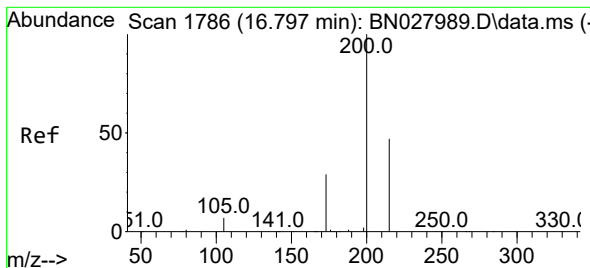
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.9 10.2 15.4

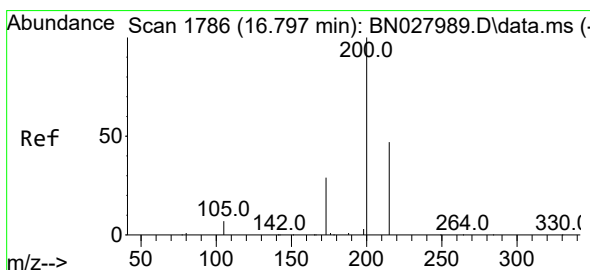
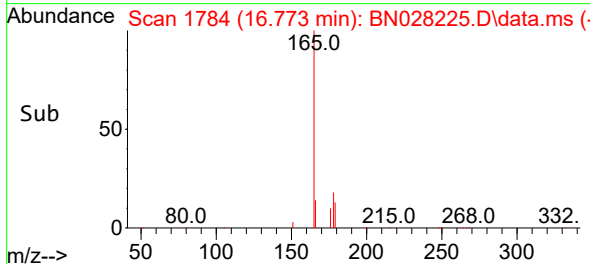
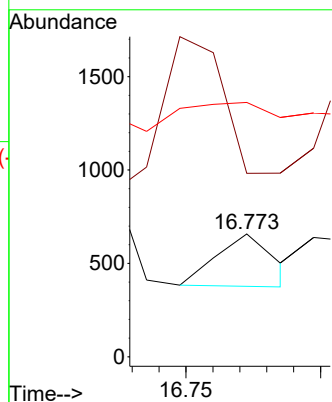
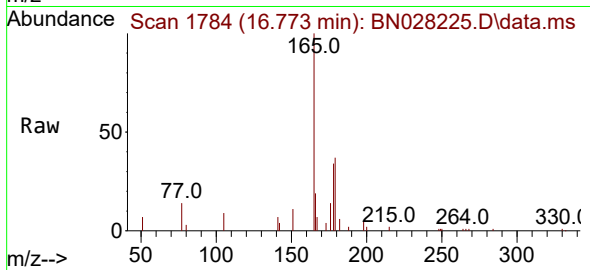




#20
4,6-Dinitro-2-methylphenol
Concen: 2.180 ng
RT: 16.773 min Scan# 1784
Delta R.T. -0.012 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

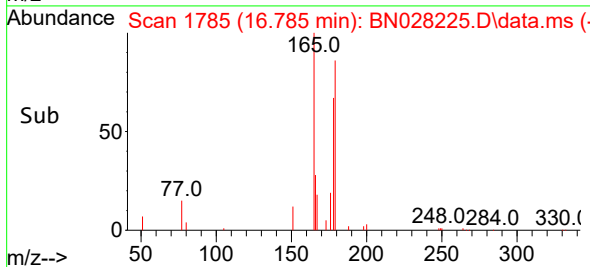
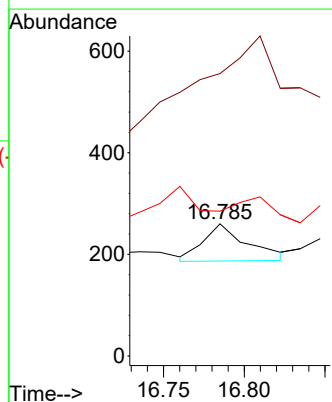
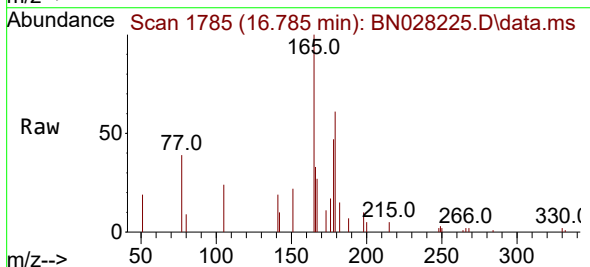
Instrument :
BNA_N
ClientSampleId :
Q-1(5-10)

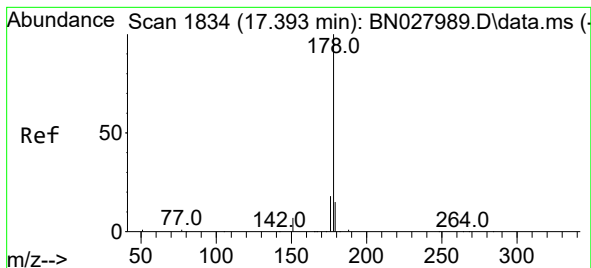
Tgt Ion:198 Resp: 412
Ion Ratio Lower Upper
198 100
51 149.2 180.7 271.1#
105 207.0 222.2 333.2#



#23
Atrazine
Concen: 0.021 ng
RT: 16.785 min Scan# 1785
Delta R.T. 0.000 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

Tgt Ion:200 Resp: 139
Ion Ratio Lower Upper
200 100
173 213.8 24.7 37.1#
215 109.6 39.0 58.6#





#25

Phenanthrene

Concen: 250.415 ng

RT: 17.381 min Scan# 1833

Delta R.T. 0.012 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

Instrument :

BNA_N

ClientSampleId :

Q-1(5-10)

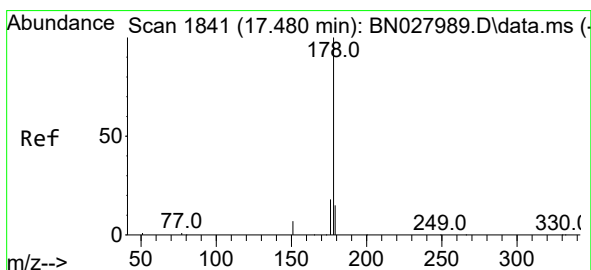
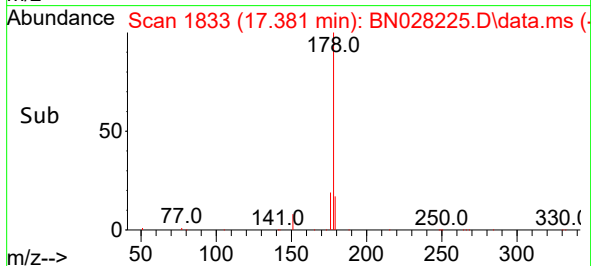
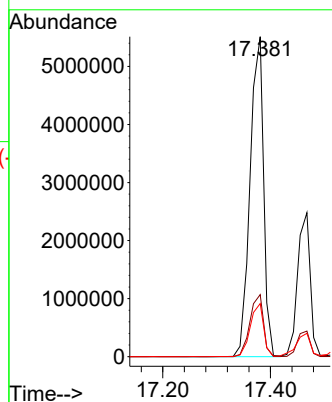
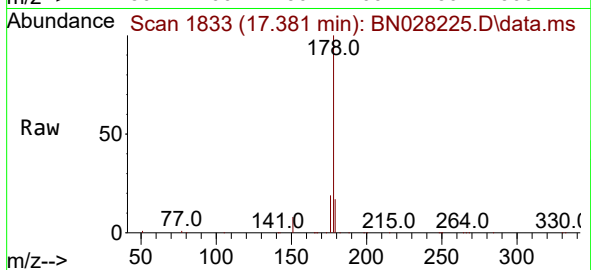
Tgt Ion:178 Resp: 9599409

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

179 16.6 12.4 18.6



#26

Anthracene

Concen: 109.573 ng

RT: 17.468 min Scan# 1840

Delta R.T. 0.012 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

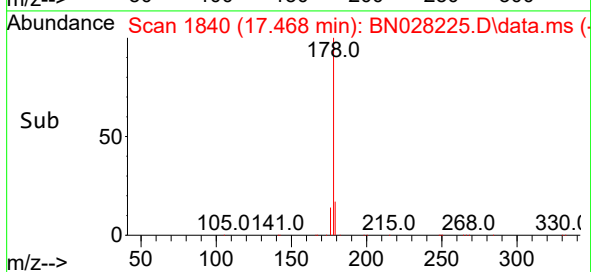
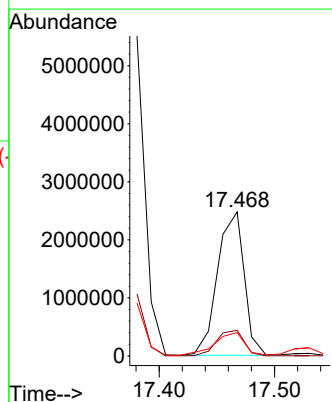
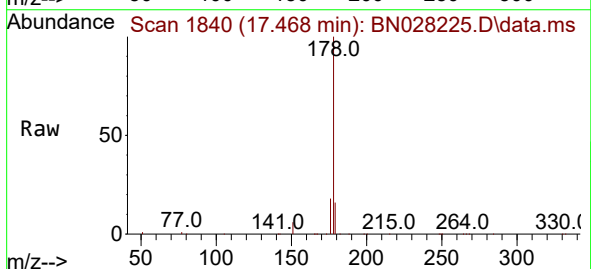
Tgt Ion:178 Resp: 3970208

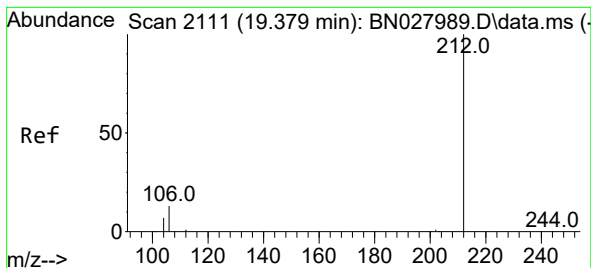
Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

179 17.4 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.239 ng

RT: 19.360 min Scan# 2111

Delta R.T. 0.005 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

Instrument :

BNA_N

ClientSampleId :

Q-1(5-10)

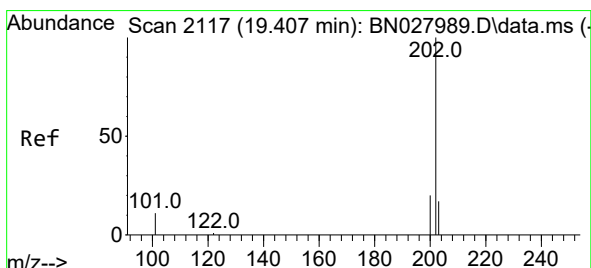
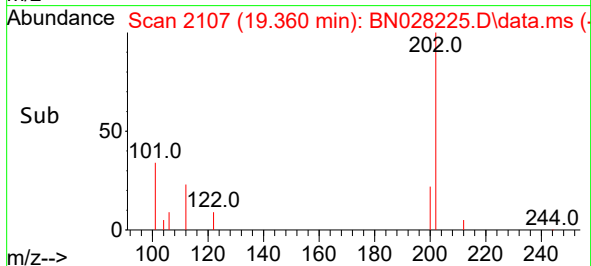
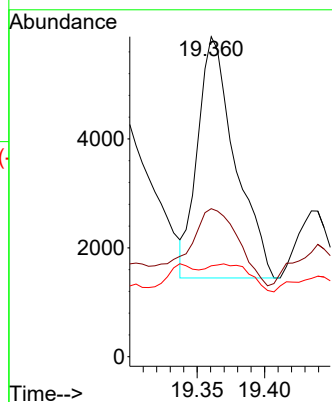
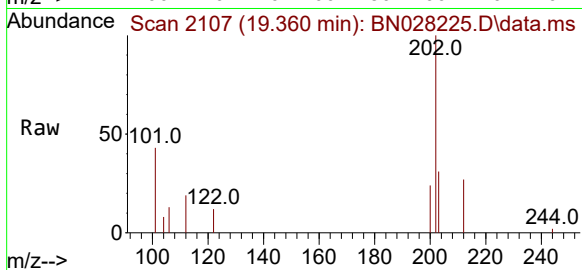
Tgt Ion:212 Resp: 8540

Ion Ratio Lower Upper

212 100

106 42.2 11.3 16.9#

104 0.0 6.4 9.6#



#28

Fluoranthene

Concen: 294.828 ng

RT: 19.407 min Scan# 2117

Delta R.T. 0.023 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

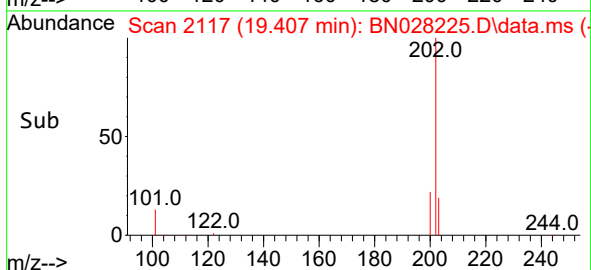
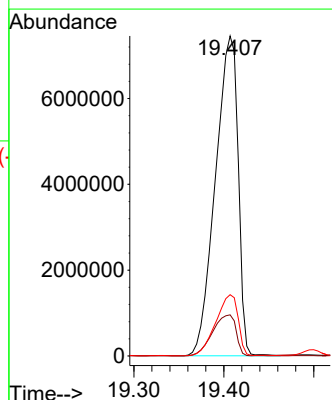
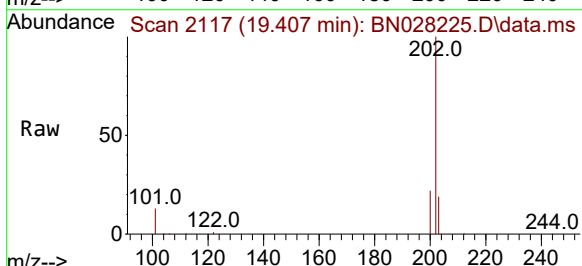
Tgt Ion:202 Resp:13043333

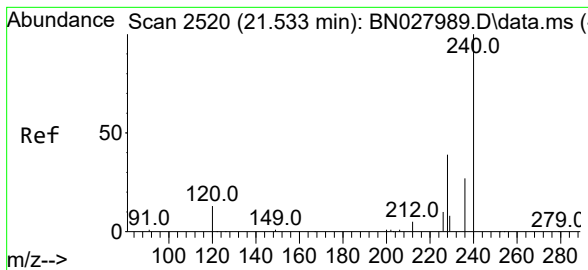
Ion Ratio Lower Upper

202 100

101 13.3 9.8 14.6

203 18.8 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.533 min Scan# 21

Delta R.T. 0.018 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

Instrument :

BNA_N

ClientSampleId :

Q-1(5-10)

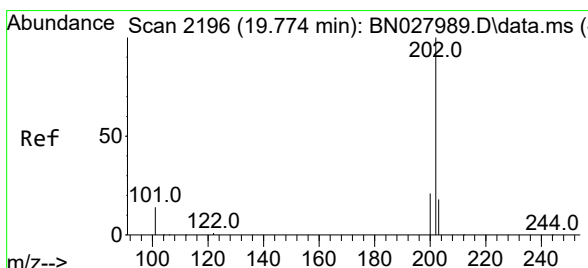
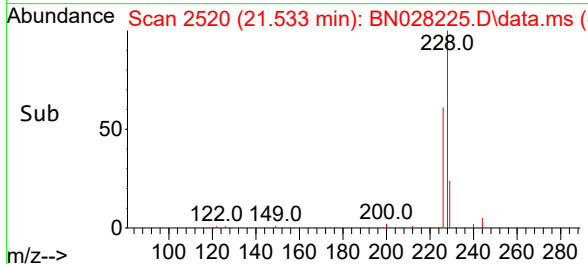
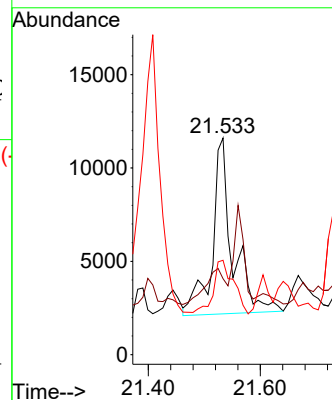
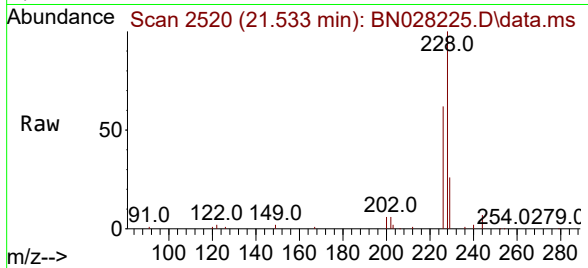
Tgt Ion:240 Resp: 23722

Ion Ratio Lower Upper

240 100

120 35.1 13.8 20.6#

236 43.6 22.6 33.8#



#30

Pyrene

Concen: 130.103 ng

RT: 19.774 min Scan# 2196

Delta R.T. 0.023 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

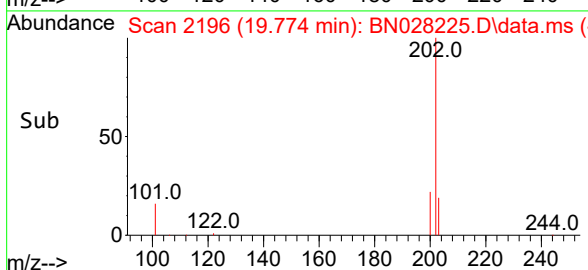
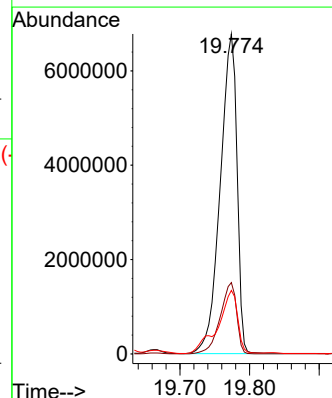
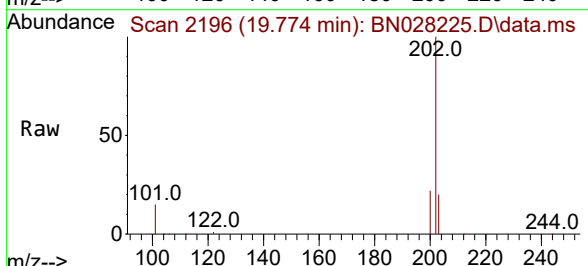
Tgt Ion:202 Resp:11317153

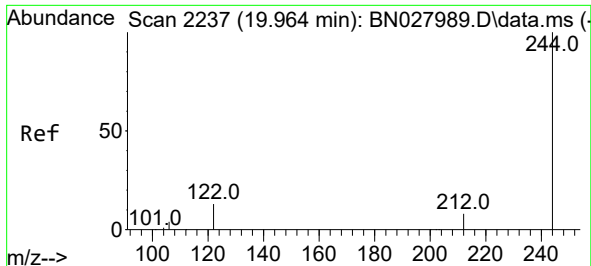
Ion Ratio Lower Upper

202 100

200 21.8 16.5 24.7

203 23.2 14.7 22.1#

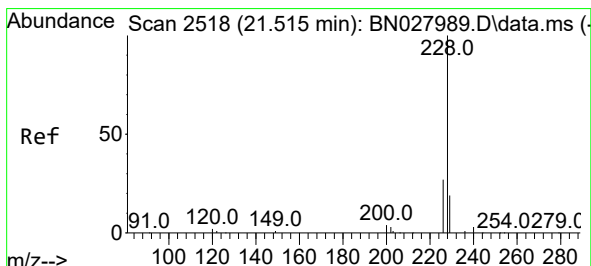
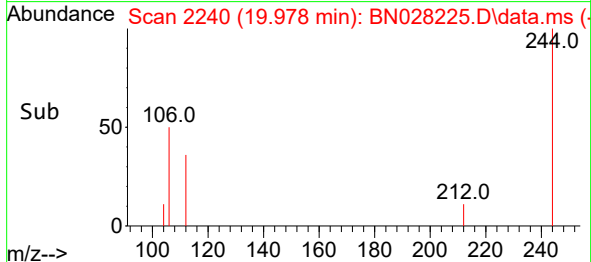
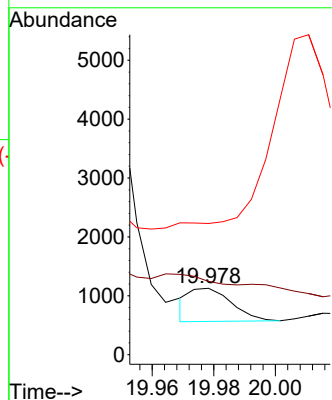
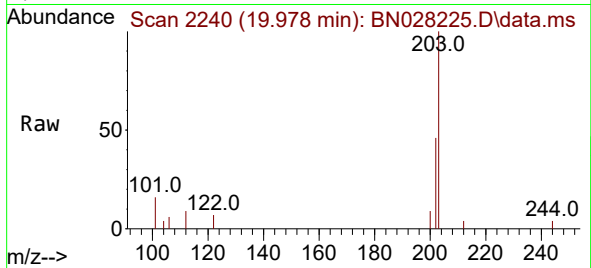




#31
 Terphenyl-d14
 Concen: 0.010 ng
 RT: 19.978 min Scan# 21
 Delta R.T. 0.037 min
 Lab File: BN028225.D
 Acq: 11 Oct 2023 08:58

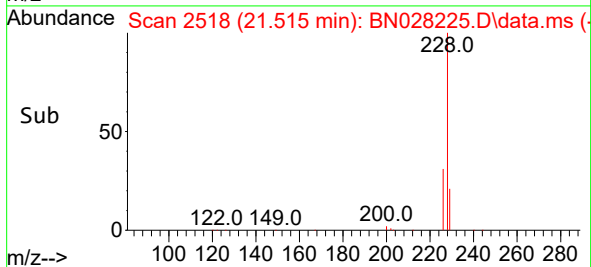
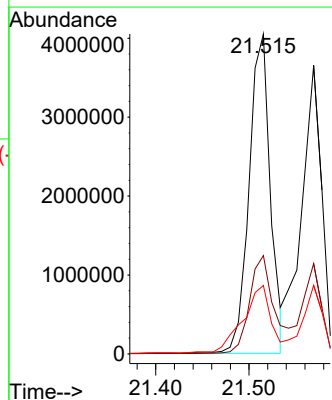
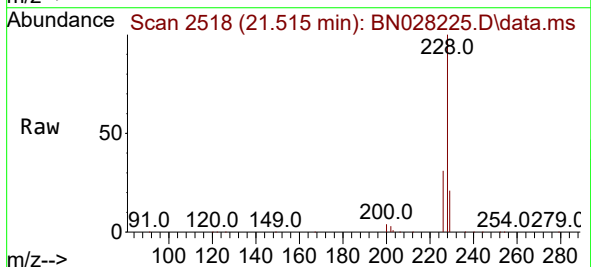
Instrument :
 BNA_N
 ClientSampleId :
 Q-1(5-10)

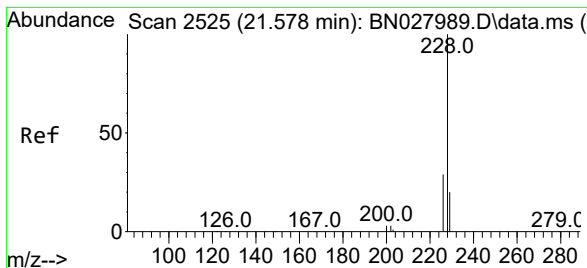
Tgt Ion:244 Resp: 531
 Ion Ratio Lower Upper
 244 100
 212 110.4 6.6 9.8#
 122 197.8 11.4 17.0#



#32
 Benzo(a)anthracene
 Concen: 79.689 ng
 RT: 21.515 min Scan# 2518
 Delta R.T. 0.018 min
 Lab File: BN028225.D
 Acq: 11 Oct 2023 08:58

Tgt Ion:228 Resp: 6432596
 Ion Ratio Lower Upper
 228 100
 226 30.8 22.0 33.0
 229 21.4 16.0 24.0





#33

Chrysene

Concen: 70.427 ng

RT: 21.569 min Scan# 21

Delta R.T. 0.018 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

Instrument :

BNA_N

ClientSampleId :

Q-1(5-10)

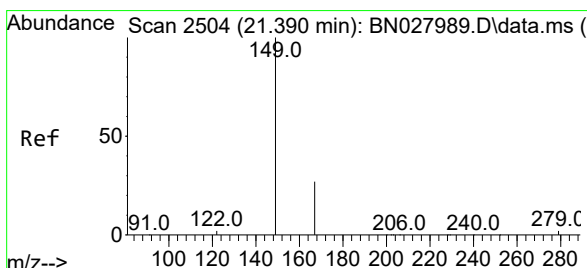
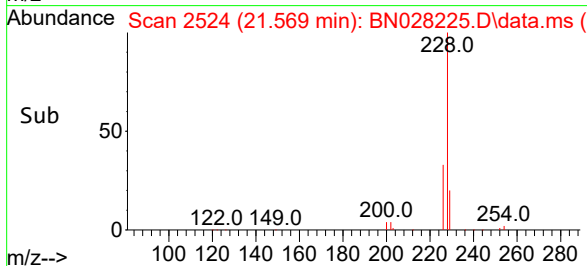
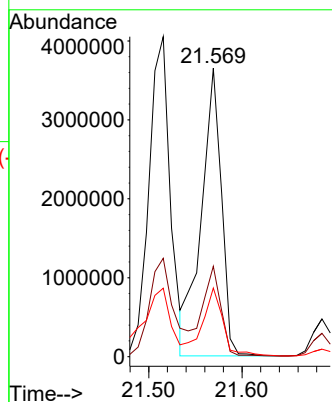
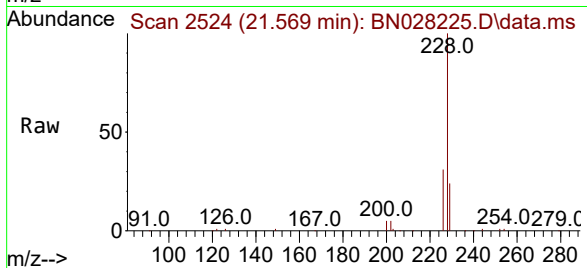
Tgt Ion:228 Resp: 5478673

Ion Ratio Lower Upper

228 100

226 31.3 23.8 35.8

229 23.8 16.6 25.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.185 ng

RT: 21.372 min Scan# 2502

Delta R.T. 0.009 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

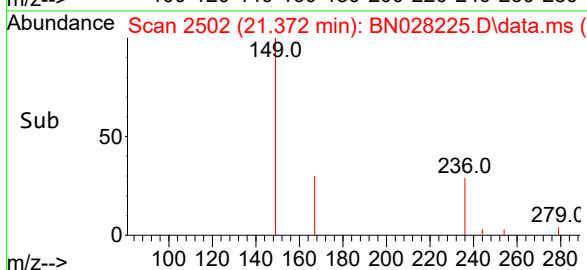
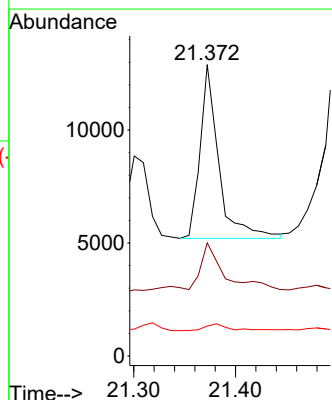
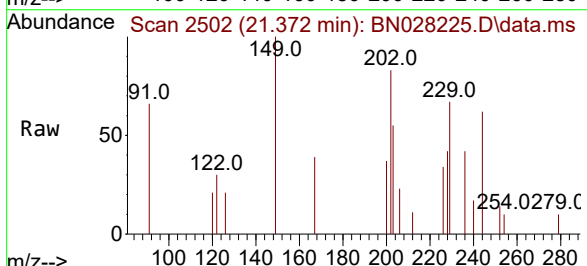
Tgt Ion:149 Resp: 9796

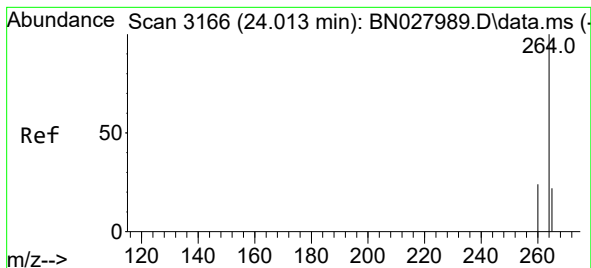
Ion Ratio Lower Upper

149 100

167 36.6 22.1 33.1#

279 5.1 3.4 5.0#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.999 min Scan# 31

Delta R.T. 0.023 min

Lab File: BN028225.D

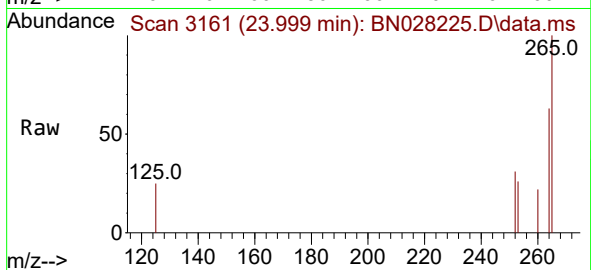
Acq: 11 Oct 2023 08:58

Instrument :

BNA_N

ClientSampleId :

Q-1(5-10)



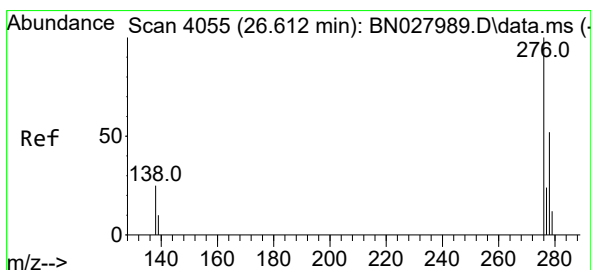
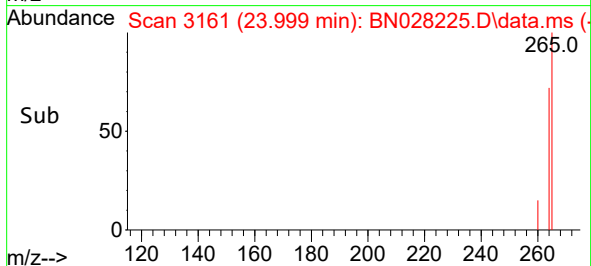
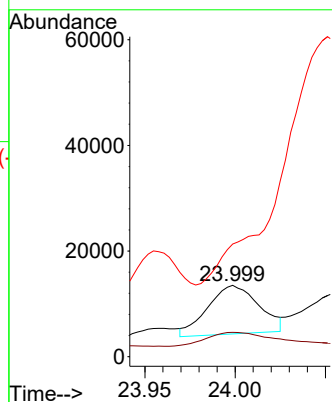
Tgt Ion:264 Resp: 18235

Ion Ratio Lower Upper

264 100

260 34.0 20.2 30.4#

265 157.9 54.8 82.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 56.282 ng

RT: 26.618 min Scan# 4057

Delta R.T. 0.061 min

Lab File: BN028225.D

Acq: 11 Oct 2023 08:58

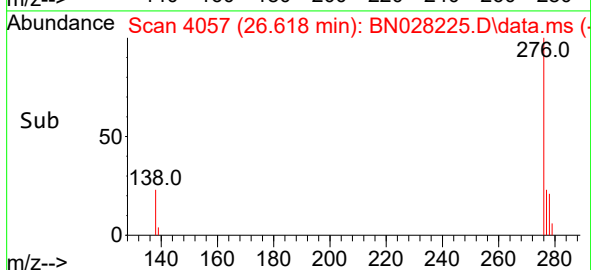
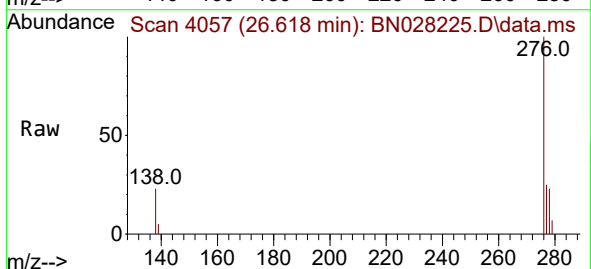
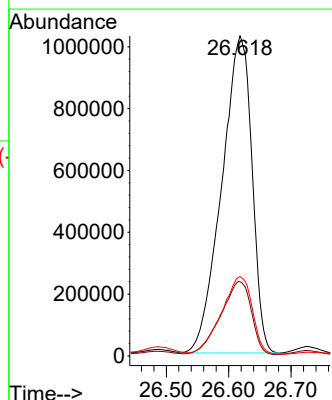
Tgt Ion:276 Resp: 3452127

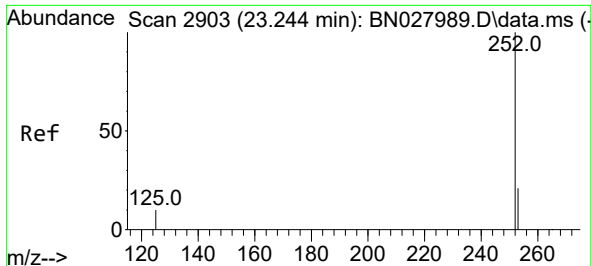
Ion Ratio Lower Upper

276 100

138 23.4 20.9 31.3

277 24.7 19.8 29.6

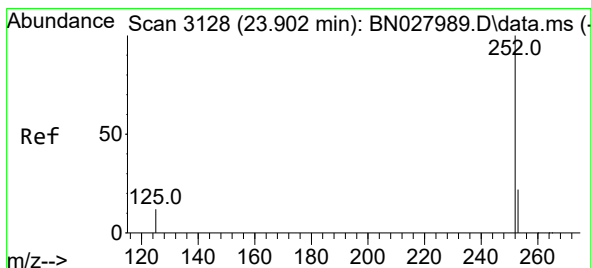
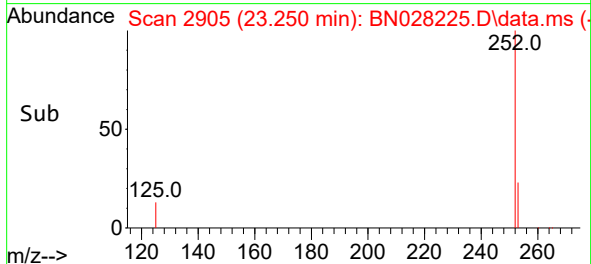
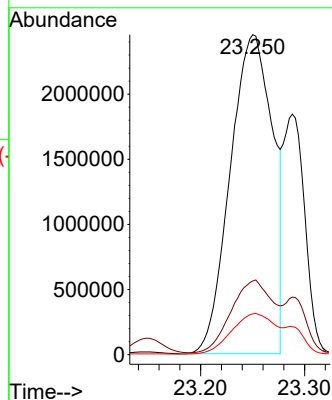
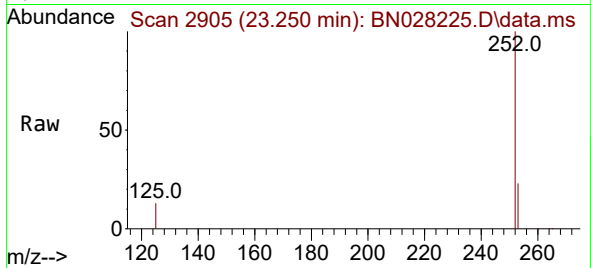




#37
Benzo(b)fluoranthene
Concen: 118.188 ng
RT: 23.250 min Scan# 2903
Delta R.T. 0.038 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

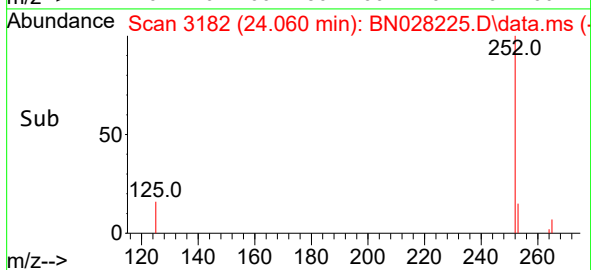
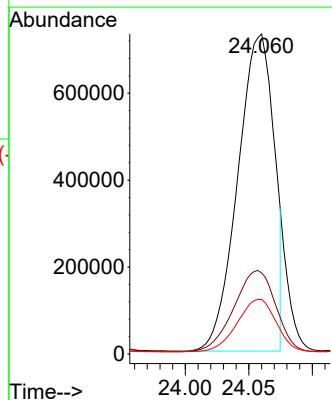
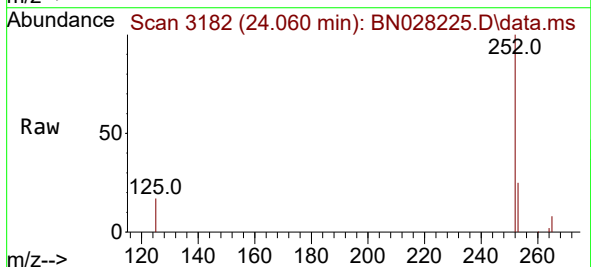
Instrument :
BNA_N
ClientSampleId :
Q-1(5-10)

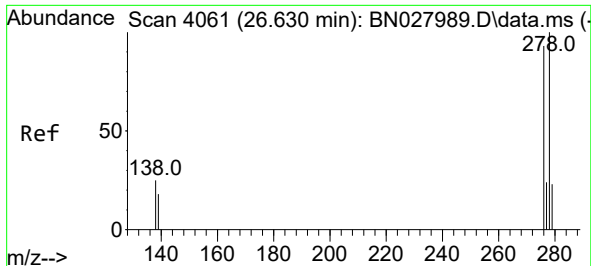
Tgt Ion:252 Resp: 6960411
Ion Ratio Lower Upper
252 100
253 23.1 22.9 34.3
125 12.8 13.8 20.8#



#39
Benzo(a)pyrene
Concen: 25.957 ng
RT: 24.060 min Scan# 3182
Delta R.T. 0.196 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

Tgt Ion:252 Resp: 1445474
Ion Ratio Lower Upper
252 100
253 25.3 25.0 37.4
125 17.0 16.6 24.8

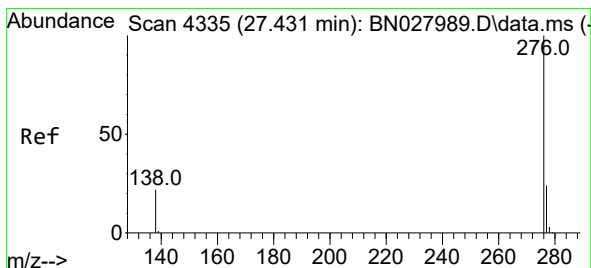
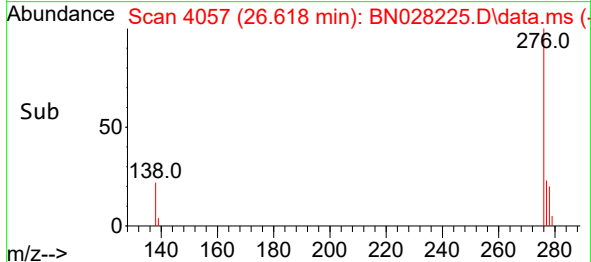
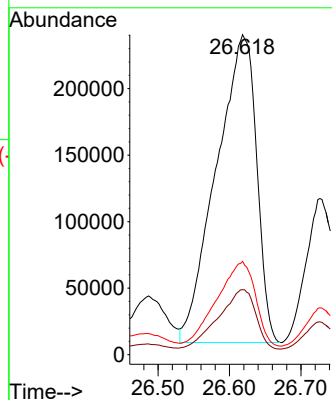
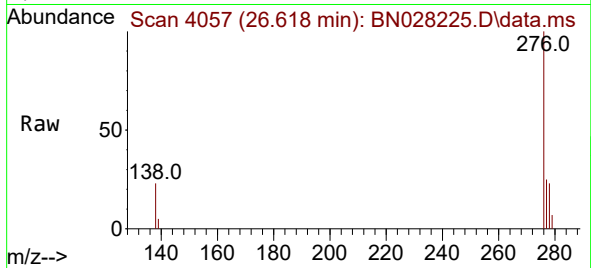




#40
Dibenzo(a,h)anthracene
Concen: 18.065 ng
RT: 26.618 min Scan# 4061
Delta R.T. 0.041 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

Instrument :
BNA_N
ClientSampleId :
Q-1(5-10)

Tgt Ion:278 Resp: 906426
Ion Ratio Lower Upper
278 100
139 20.3 17.7 26.5
279 29.1 25.2 37.8



#41
Benzo(g,h,i)perylene
Concen: 62.993 ng
RT: 27.443 min Scan# 4339
Delta R.T. 0.076 min
Lab File: BN028225.D
Acq: 11 Oct 2023 08:58

Tgt Ion:276 Resp: 3244327
Ion Ratio Lower Upper
276 100
277 25.2 22.1 33.1
138 24.3 20.8 31.2

