

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN102423\
 Data File : BN028393.D
 Acq On : 25 Oct 2023 02:38
 Operator : MA/JU
 Sample : 04938-09 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A-5(0-2)

Quant Time: Oct 25 03:08:52 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN101223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 23 15:14:08 2023
 Response via : Initial Calibration

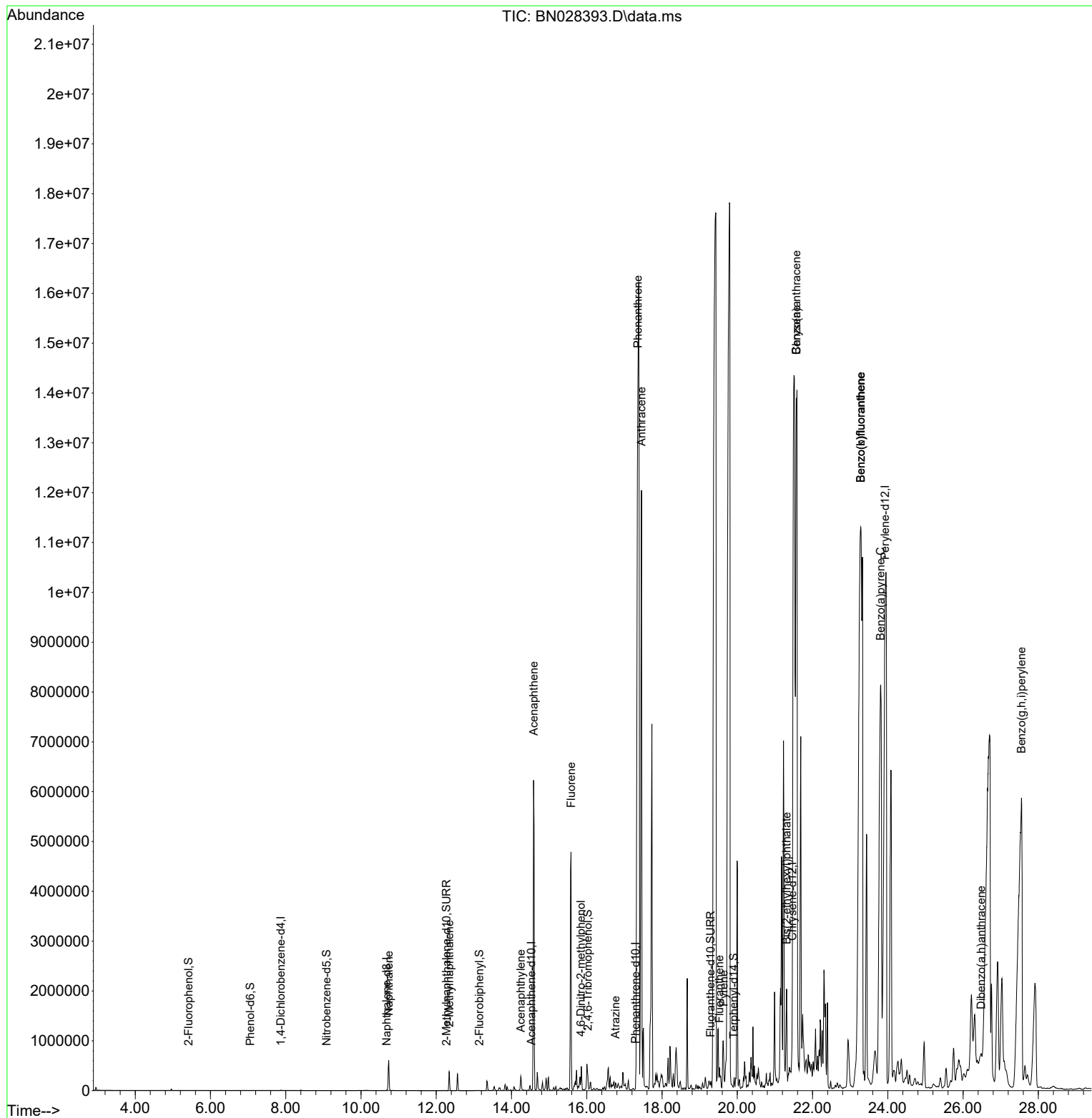
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.871	152	4011	0.400	ng	0.00
7) Naphthalene-d8	10.682	136	14292	0.400	ng	-0.02
13) Acenaphthene-d10	14.523	164	10576	0.400	ng	-0.01
19) Phenanthrene-d10	17.294	188	16148	0.400	ng	# 0.00
29) Chrysene-d12	21.462	240	54057	0.400	ng	#-0.03
35) Perylene-d12	23.928	264	41396	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.415	112	598	0.048	ng	-0.01
5) Phenol-d6	7.055	99	748	0.049	ng	0.00
8) Nitrobenzene-d5	9.080	82	607	0.048	ng	-0.02
11) 2-Methylnaphthalene-d10	12.271	152	996	0.046	ng	-0.02
14) 2,4,6-Tribromophenol	16.028	330	174	0.034	ng	-0.04
15) 2-Fluorobiphenyl	13.144	172	1316	0.035	ng	-0.02
27) Fluoranthene-d10	19.291	212	5125	0.119	ng	-0.04
31) Terphenyl-d14	19.904	244	35958	0.313	ng	-0.01
Target Compounds						
9) Naphthalene	10.735	128	792465	21.377	ng	97
12) 2-Methylnaphthalene	12.343	142	257674	9.781	ng	99
16) Acenaphthylene	14.245	152	358434	7.542	ng	98
17) Acenaphthene	14.587	154	3373922	112.669	ng	97
18) Fluorene	15.581	166	3660827	92.871	ng	99
20) 4,6-Dinitro-2-methylph...	15.842	198	54	0.231	ng	# 1
23) Atrazine	16.760	200	188	0.024	ng	# 1
25) Phenanthrene	17.356	178	36905247	834.923	ng	# 60
26) Anthracene	17.455	178	13797177	326.813	ng	# 94
28) Fluoranthene	19.523	202	262567	4.728	ng	# 63
30) Pyrene	19.634	202	290556	1.571	ng	# 1
32) Benzo(a)anthracene	21.569	228	20561752	107.072	ng	91
33) Chrysene	21.569	228	20897336	113.697	ng	95
34) Bis(2-ethylhexyl)phtha...	21.309	149	54939	0.375	ng	# 60
37) Benzo(b)fluoranthene	23.279	252	46465811	359.107	ng	# 89
38) Benzo(k)fluoranthene	23.279	252	40675097	309.017	ng	# 90
39) Benzo(a)pyrene	23.808	252	24393700	189.516	ng	# 89
40) Dibenzo(a,h)anthracene	26.478	278	840793	6.206	ng	# 85
41) Benzo(g,h,i)perylene	27.551	276	25893848	185.103	ng	96

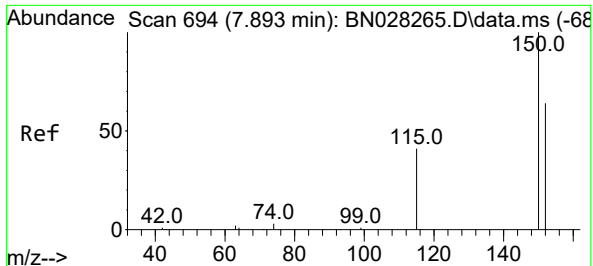
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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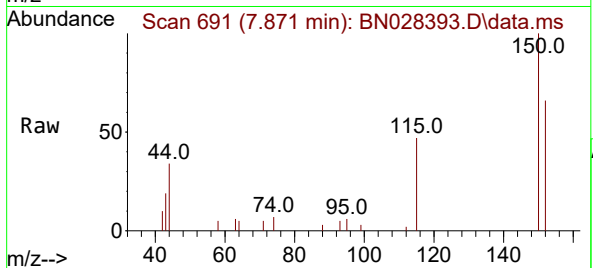
Quant Time: Oct 25 03:08:52 2023
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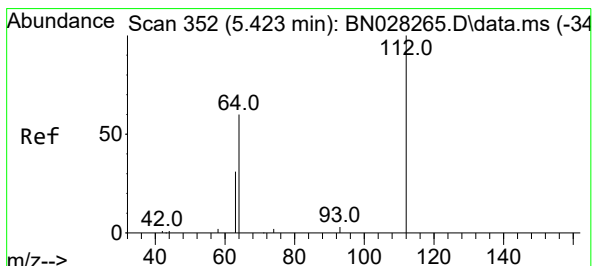
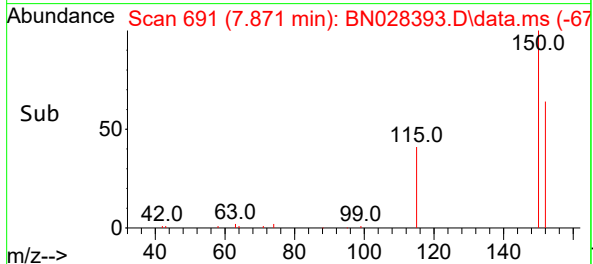
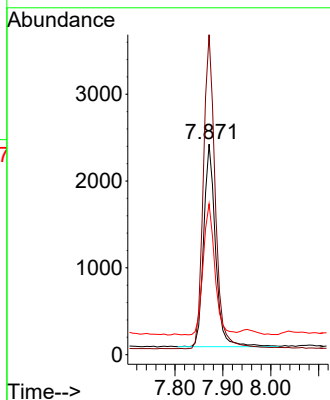
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.871 min Scan# 694
Delta R.T. -0.007 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

Instrument :
BNA_N
ClientSampleId :
A-5(0-2)



Tgt Ion:152 Resp: 4011

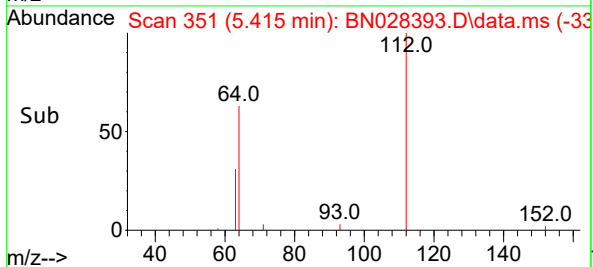
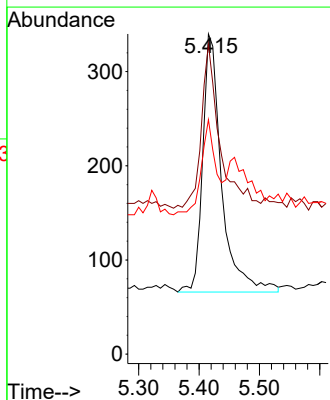
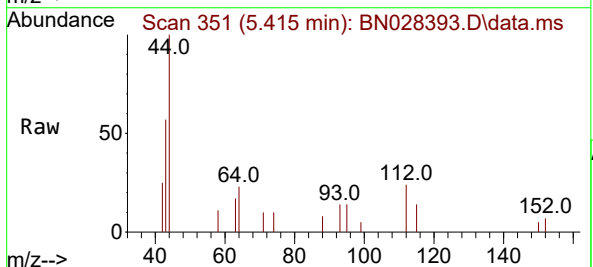
Ion	Ratio	Lower	Upper
152	100		
150	152.0	121.6	182.4
115	71.6	54.3	81.5

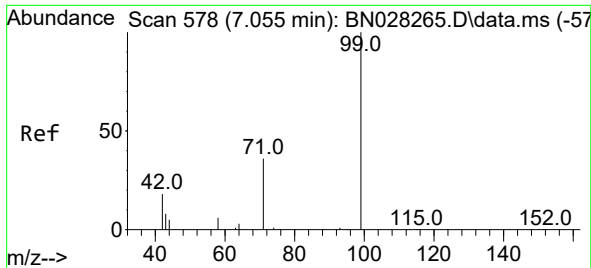


#4
2-Fluorophenol
Concen: 0.048 ng
RT: 5.415 min Scan# 351
Delta R.T. -0.014 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

Tgt Ion:112 Resp: 598

Ion	Ratio	Lower	Upper
112	100		
64	61.9	46.9	70.3
63	28.1	25.0	37.4

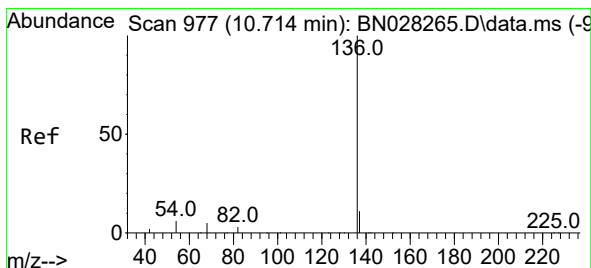
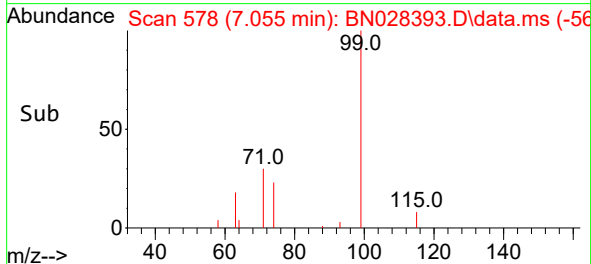
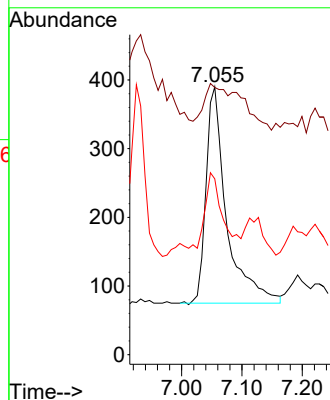
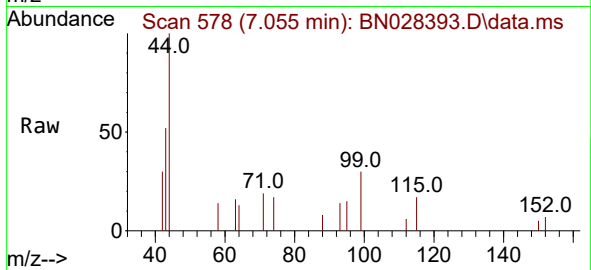




#5
Phenol-d6
Concen: 0.049 ng
RT: 7.055 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

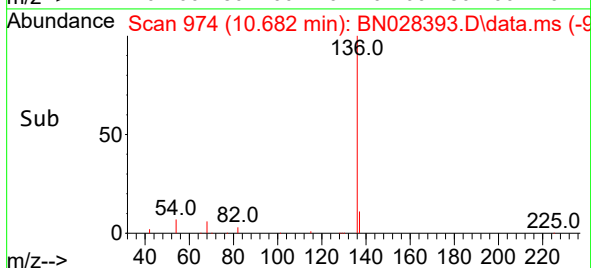
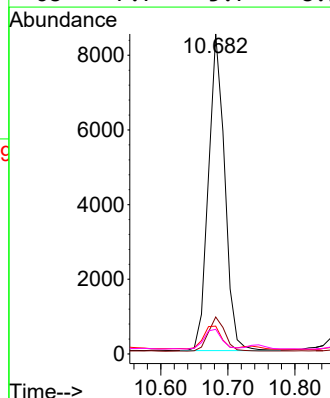
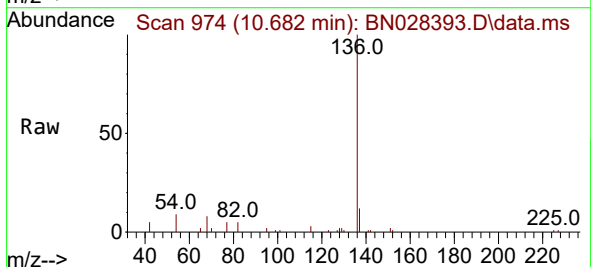
Instrument :
BNA_N
ClientSampleId :
A-5(0-2)

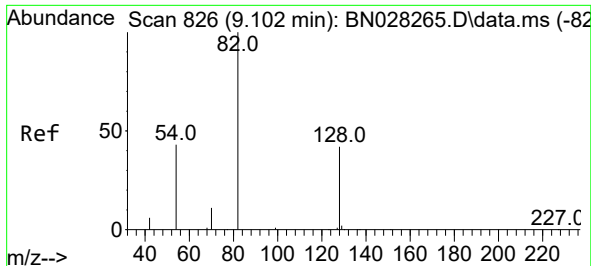
Tgt Ion: 99 Resp: 748
Ion Ratio Lower Upper
99 100
42 39.4 15.9 23.9#
71 36.5 28.6 42.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.021 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

Tgt Ion: 136 Resp: 14292
Ion Ratio Lower Upper
136 100
137 11.6 9.8 14.8
54 8.7 6.2 9.4
68 7.7 5.7 8.5

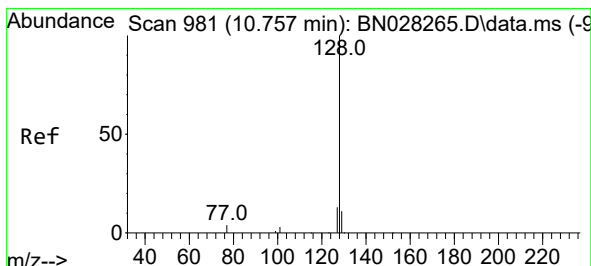
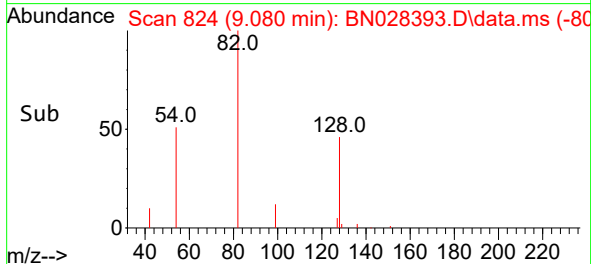
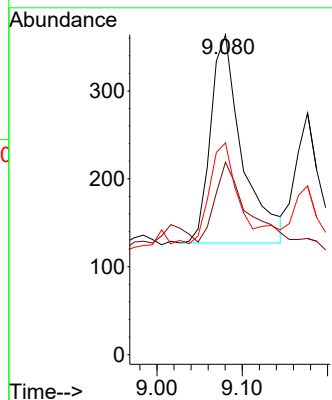
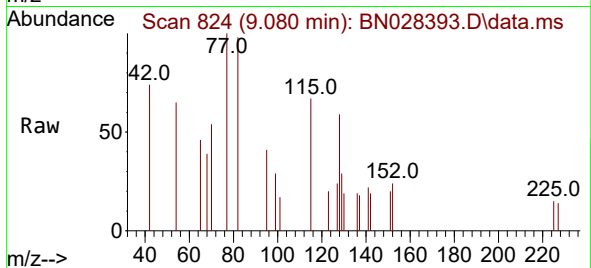




#8
Nitrobenzene-d5
Concen: 0.048 ng
RT: 9.080 min Scan# 81
Delta R.T. -0.021 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

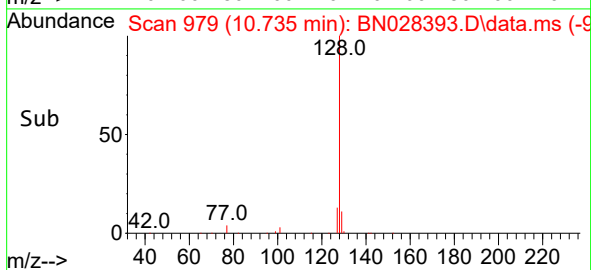
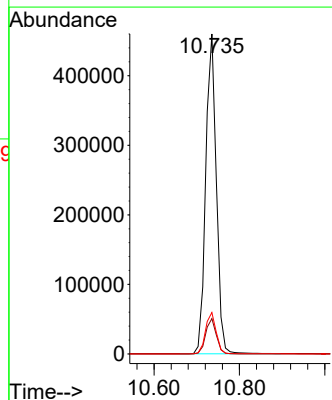
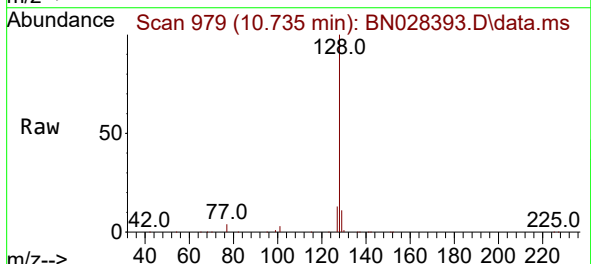
Instrument :
BNA_N
ClientSampleId :
A-5(0-2)

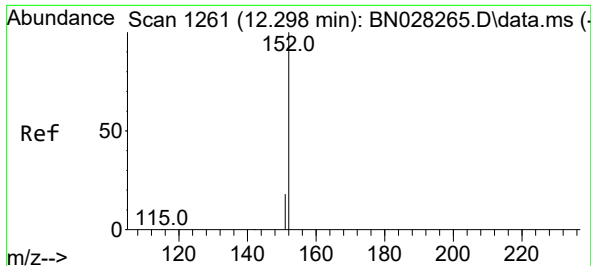
Tgt Ion: 82 Resp: 607
Ion Ratio Lower Upper
82 100
128 60.2 36.8 55.2#
54 66.2 37.4 56.2#



#9
Naphthalene
Concen: 21.377 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.021 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

Tgt Ion: 128 Resp: 792465
Ion Ratio Lower Upper
128 100
129 11.1 9.8 14.6
127 12.9 11.4 17.0





#11

2-Methylnaphthalene-d10

Concen: 0.046 ng

RT: 12.271 min Scan# 11

Delta R.T. -0.023 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

Instrument :

BNA_N

ClientSampleId :

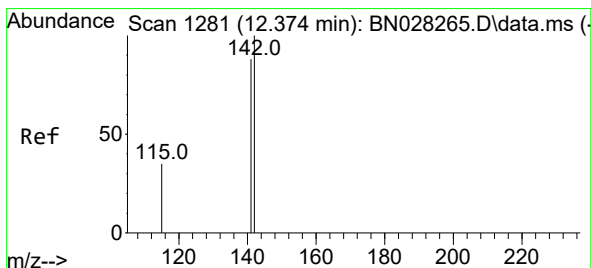
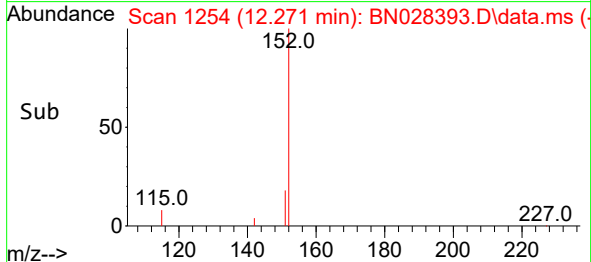
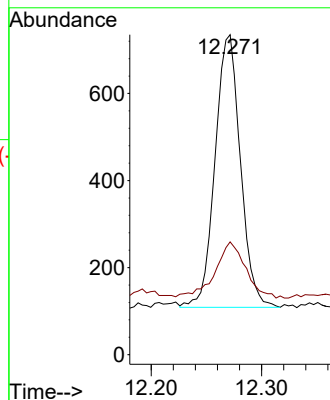
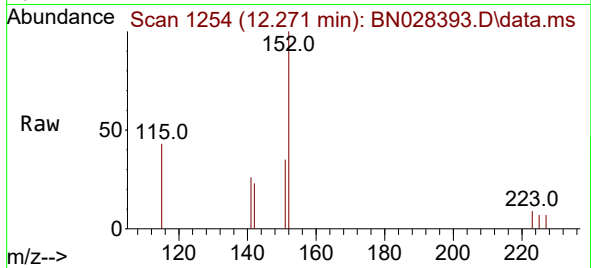
A-5(0-2)

Tgt Ion:152 Resp: 996

Ion Ratio Lower Upper

152 100

151 25.1 16.1 24.1#



#12

2-Methylnaphthalene

Concen: 9.781 ng

RT: 12.343 min Scan# 1273

Delta R.T. -0.026 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

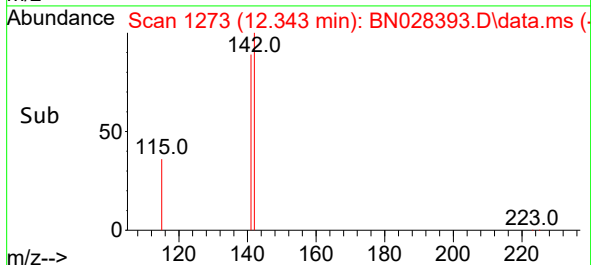
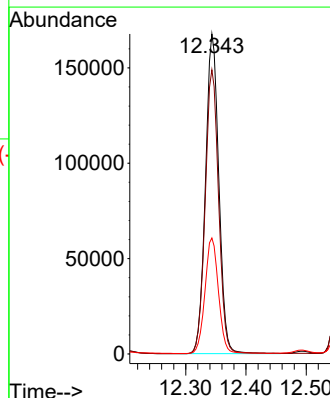
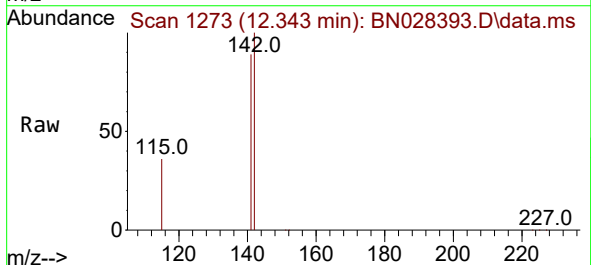
Tgt Ion:142 Resp: 257674

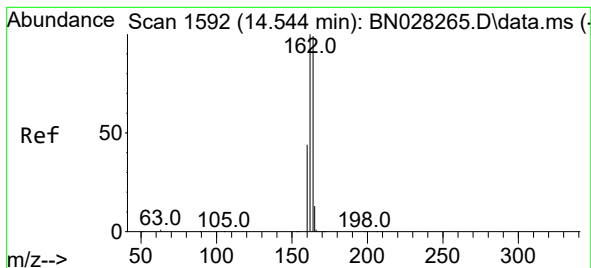
Ion Ratio Lower Upper

142 100

141 88.8 71.1 106.7

115 36.3 29.9 44.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.523 min Scan# 1590

Delta R.T. -0.011 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

Instrument :

BNA_N

ClientSampleId :

A-5(0-2)

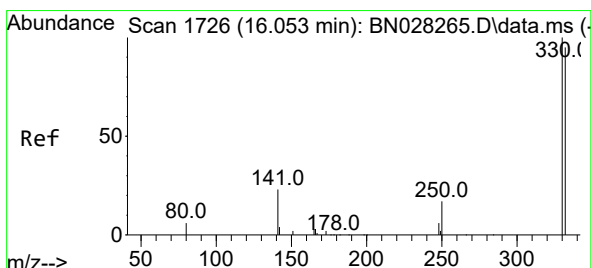
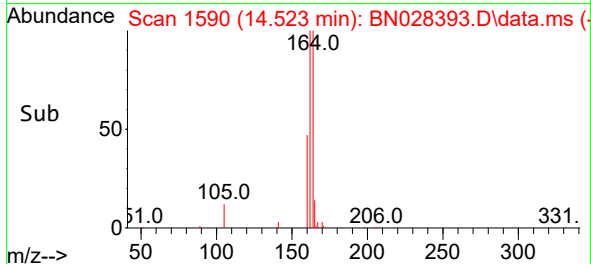
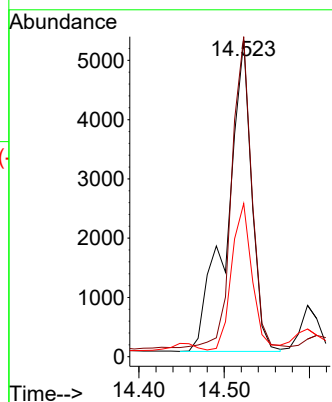
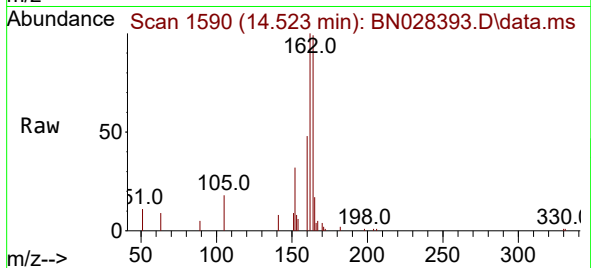
Tgt Ion:164 Resp: 10576

Ion Ratio Lower Upper

164 100

162 101.2 81.1 121.7

160 48.4 36.6 54.8



#14

2,4,6-Tribromophenol

Concen: 0.034 ng

RT: 16.028 min Scan# 1724

Delta R.T. -0.037 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

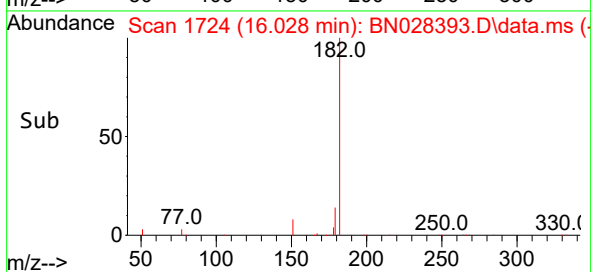
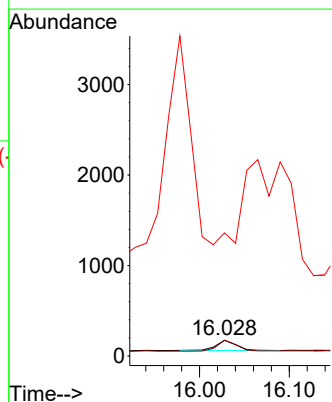
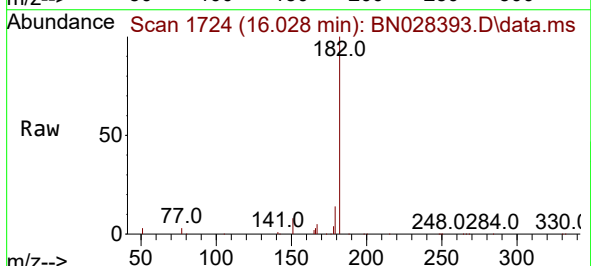
Tgt Ion:330 Resp: 174

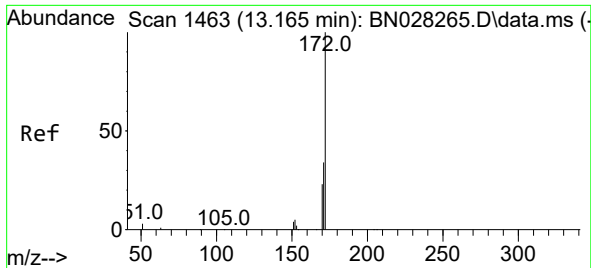
Ion Ratio Lower Upper

330 100

332 102.3 74.1 111.1

141 0.0 32.1 48.1#

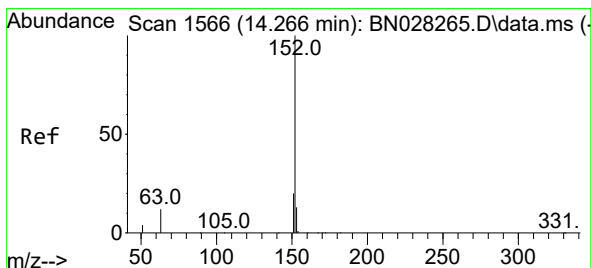
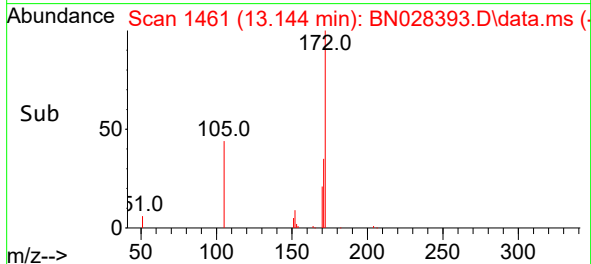
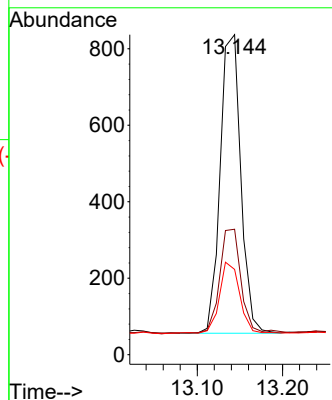
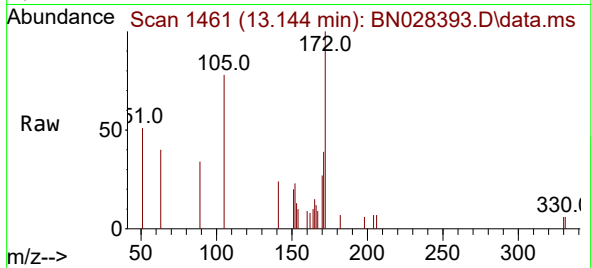




#15
2-Fluorobiphenyl
Concen: 0.035 ng
RT: 13.144 min Scan# 1461
Delta R.T. -0.021 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

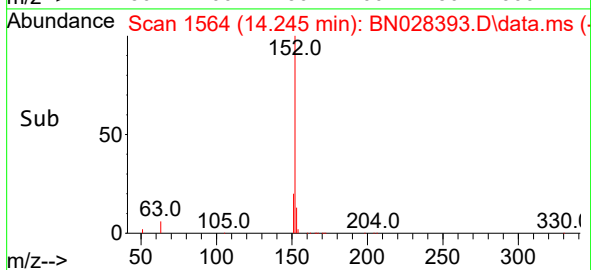
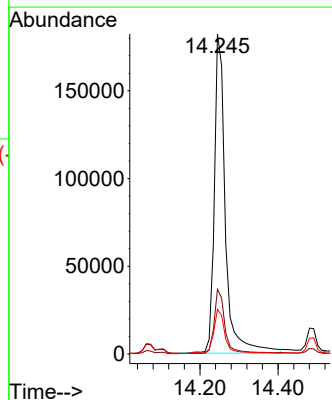
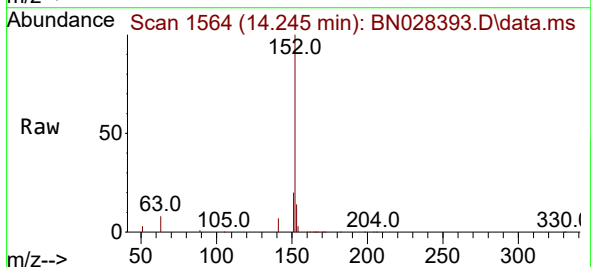
Instrument :
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A-5(0-2)

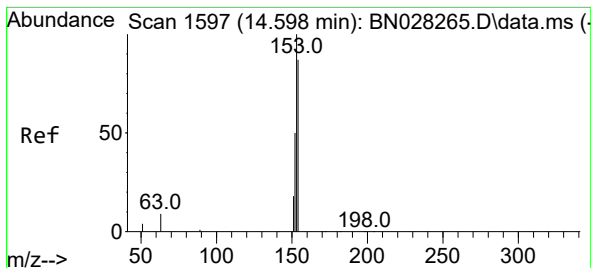
Tgt Ion:172 Resp: 1316
Ion Ratio Lower Upper
172 100
171 39.2 28.3 42.5
170 26.6 18.7 28.1



#16
Acenaphthylene
Concen: 7.542 ng
RT: 14.245 min Scan# 1564
Delta R.T. -0.011 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

Tgt Ion:152 Resp: 358434
Ion Ratio Lower Upper
152 100
151 19.9 15.6 23.4
153 14.4 10.6 16.0





#17

Acenaphthene

Concen: 112.669 ng

RT: 14.587 min Scan# 1596

Delta R.T. -0.011 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

Instrument :

BNA_N

ClientSampleId :

A-5(0-2)

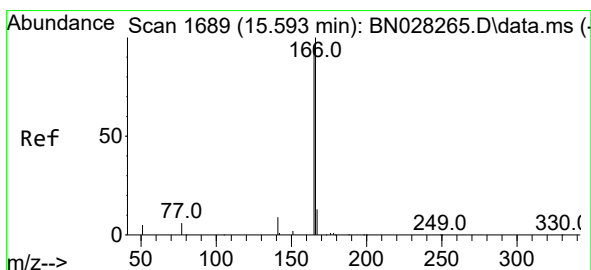
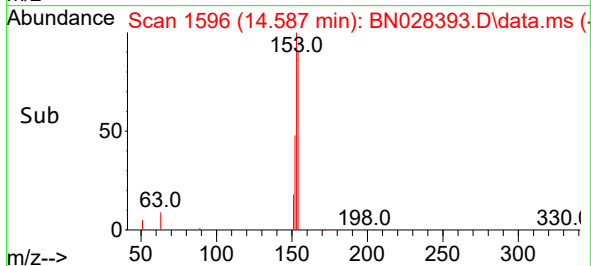
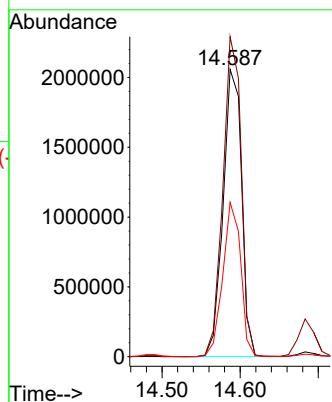
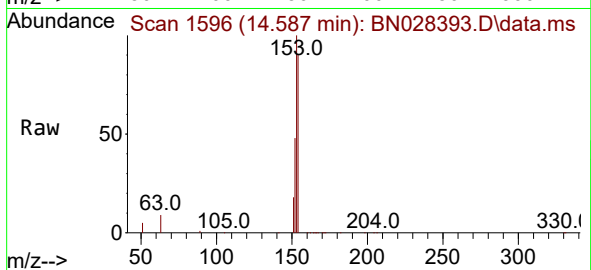
Tgt Ion:154 Resp: 3373922

Ion Ratio Lower Upper

154 100

153 110.5 90.7 136.1

152 51.9 43.6 65.4



#18

Fluorene

Concen: 92.871 ng

RT: 15.581 min Scan# 1688

Delta R.T. 0.000 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

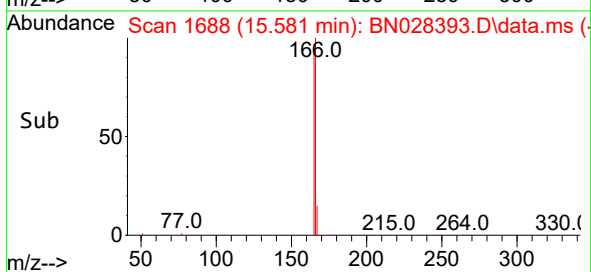
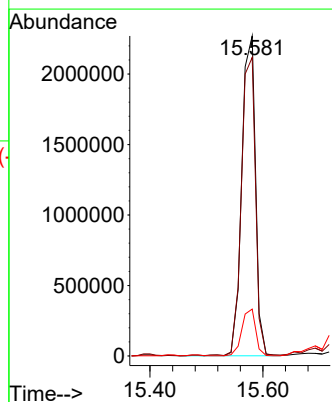
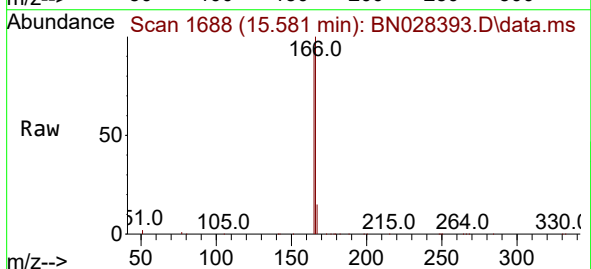
Tgt Ion:166 Resp: 3660827

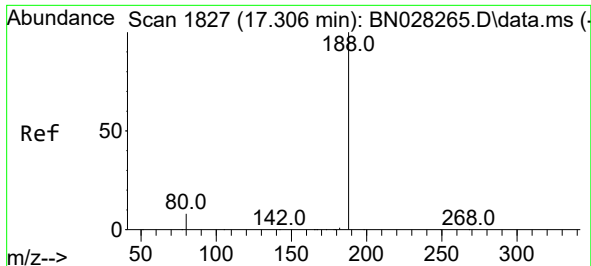
Ion Ratio Lower Upper

166 100

165 98.9 79.3 118.9

167 15.4 10.9 16.3

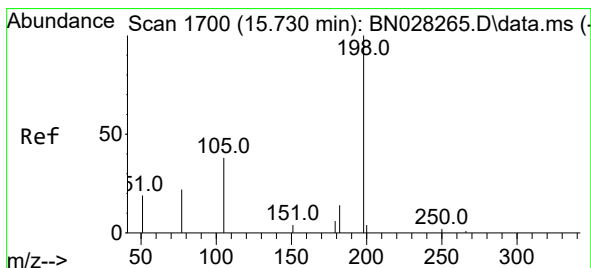
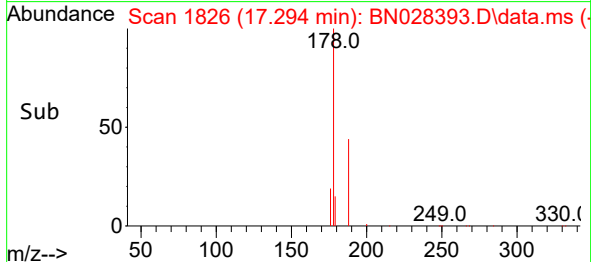
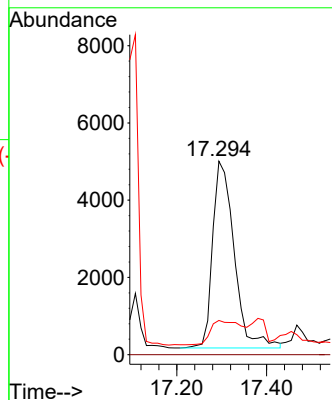
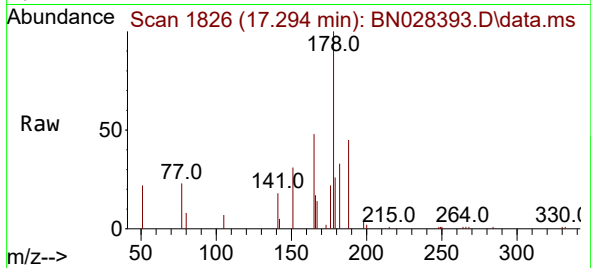




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.294 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

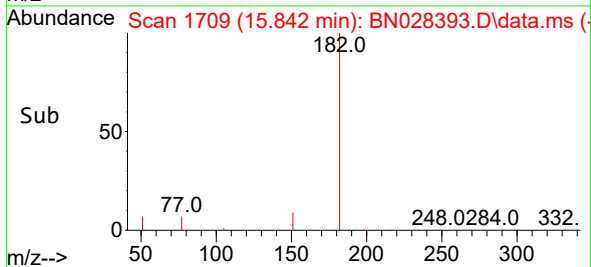
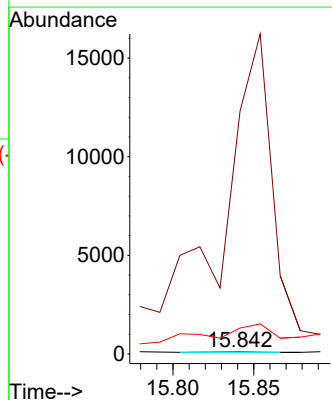
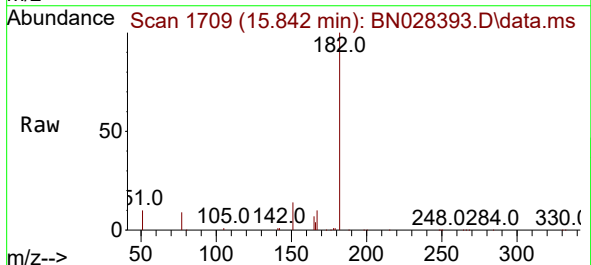
Instrument :
BNA_N
ClientSampleId :
A-5(0-2)

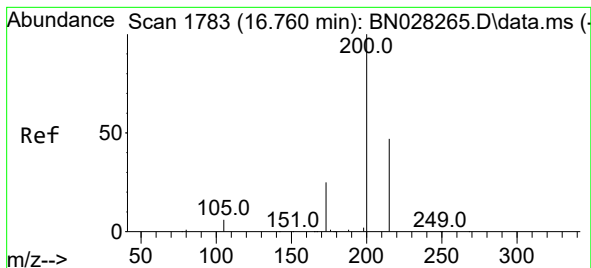
Tgt Ion:188 Resp: 16148
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 17.7 7.1 10.7#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.231 ng
RT: 15.842 min Scan# 1709
Delta R.T. 0.037 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

Tgt Ion:198 Resp: 54
Ion Ratio Lower Upper
198 100
51 11618.9 96.1 144.1#
105 1240.6 75.4 113.0#





#23

Atrazine

Concen: 0.024 ng

RT: 16.760 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

Instrument :

BNA_N

ClientSampleId :

A-5(0-2)

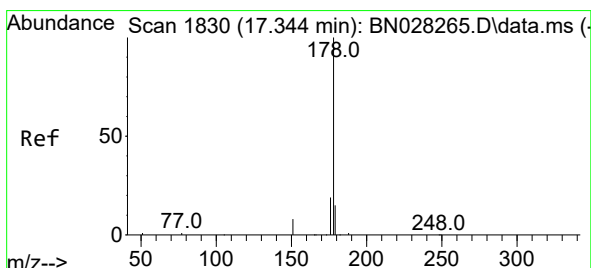
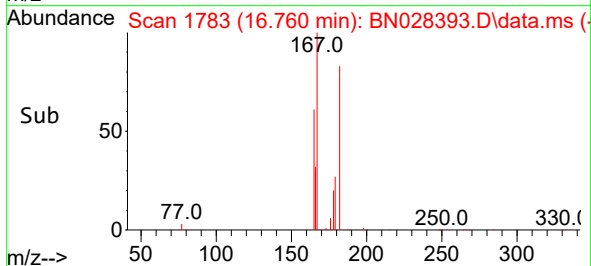
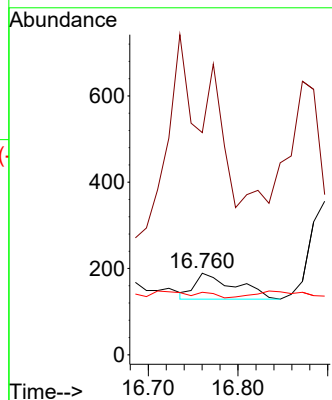
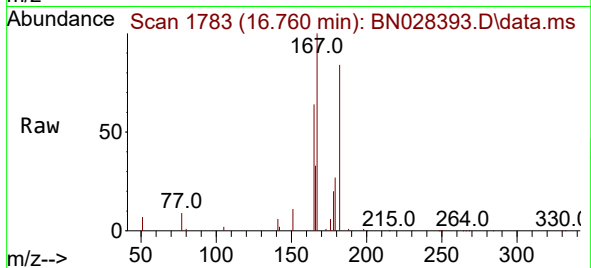
Tgt Ion:200 Resp: 188

Ion Ratio Lower Upper

200 100

173 272.5 21.6 32.4#

215 76.7 39.0 58.6#



#25

Phenanthrene

Concen: 834.923 ng

RT: 17.356 min Scan# 1831

Delta R.T. 0.025 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

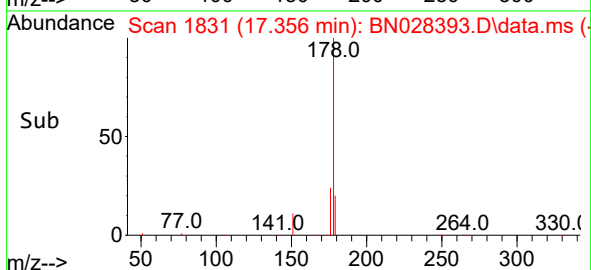
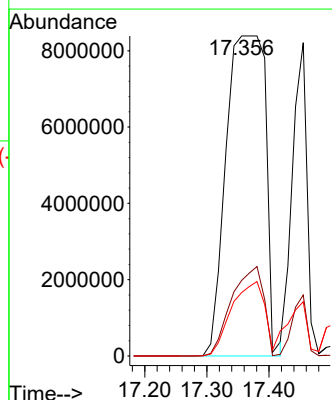
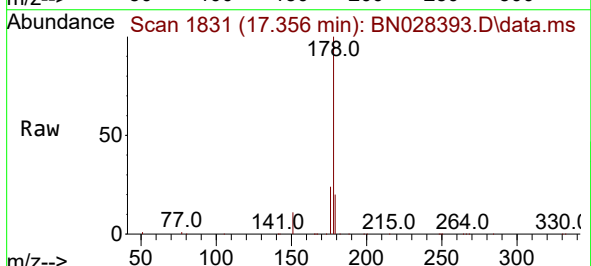
Tgt Ion:178 Resp:36905247

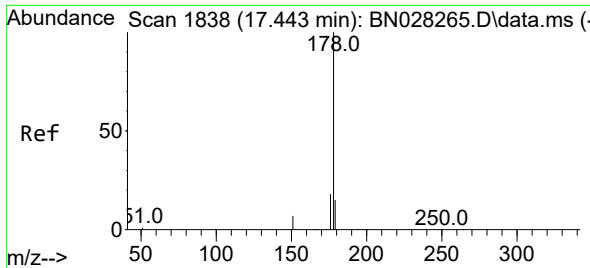
Ion Ratio Lower Upper

178 100

176 0.0 15.3 22.9#

179 0.0 12.5 18.7#

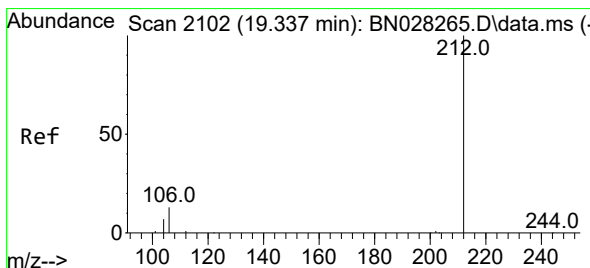
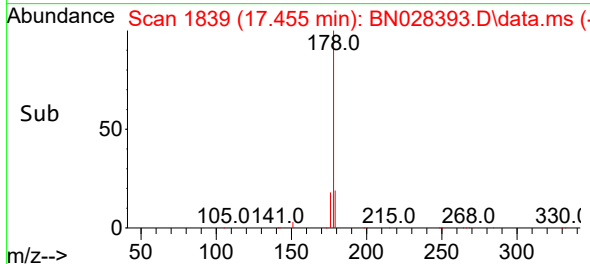
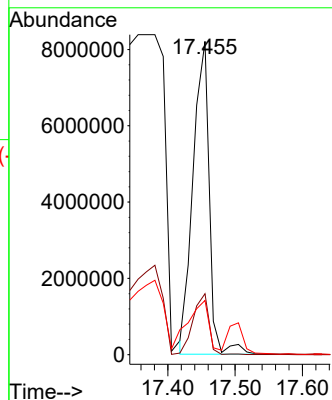
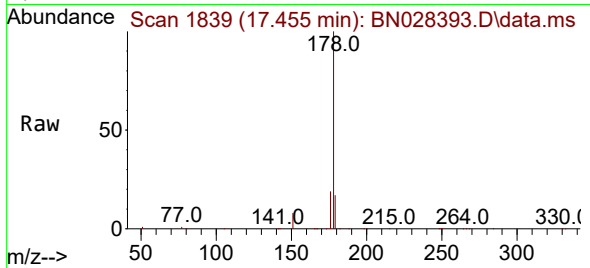




#26
 Anthracene
 Concen: 326.813 ng
 RT: 17.455 min Scan# 1839
 Delta R.T. 0.025 min
 Lab File: BN028393.D
 Acq: 25 Oct 2023 02:38

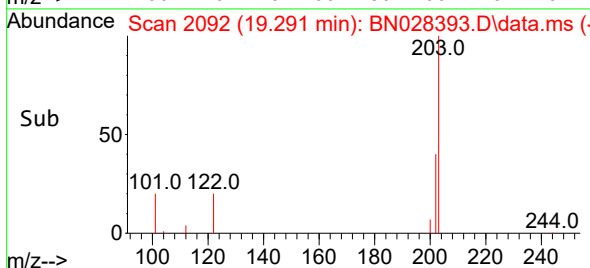
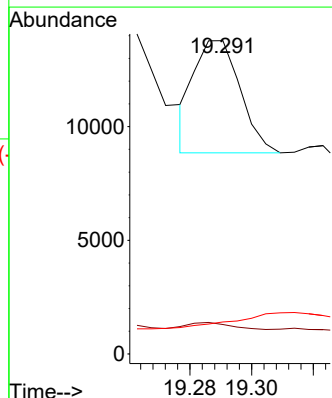
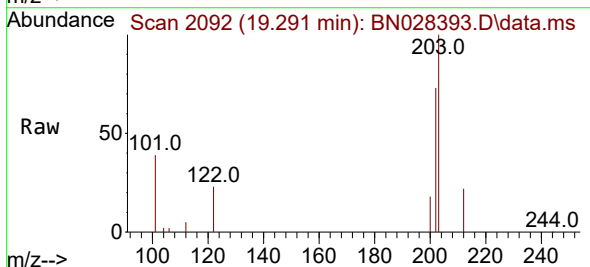
Instrument :
 BNA_N
 ClientSampleId :
 A-5(0-2)

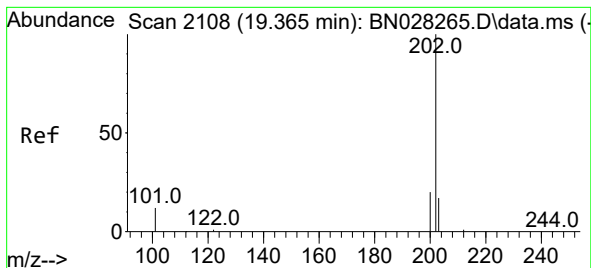
Tgt Ion:178 Resp:13797177
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.6 22.0
 179 20.4 12.2 18.4#



#27
 Fluoranthene-d10
 Concen: 0.119 ng
 RT: 19.291 min Scan# 2092
 Delta R.T. -0.037 min
 Lab File: BN028393.D
 Acq: 25 Oct 2023 02:38

Tgt Ion:212 Resp: 5125
 Ion Ratio Lower Upper
 212 100
 106 5.9 11.5 17.3#
 104 0.0 6.7 10.1#





#28

Fluoranthene

Concen: 4.728 ng

RT: 19.523 min Scan# 2108

Delta R.T. 0.167 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

Instrument :

BNA_N

ClientSampleId :

A-5(0-2)

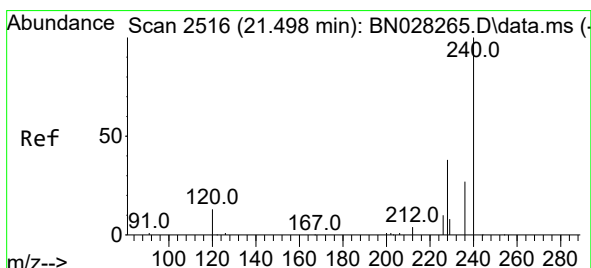
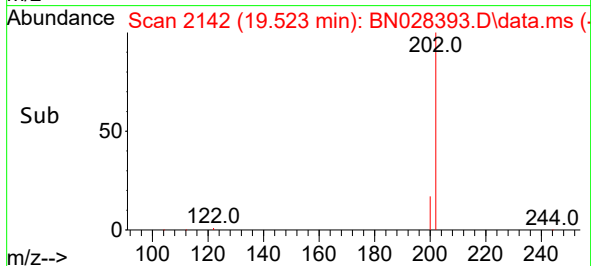
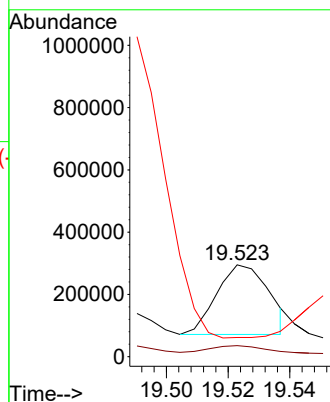
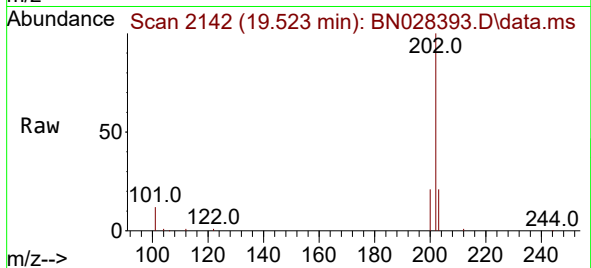
Tgt Ion:202 Resp: 262567

Ion Ratio Lower Upper

202 100

101 0.0 10.1 15.1#

203 0.0 13.9 20.9#



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.462 min Scan# 2512

Delta R.T. -0.027 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

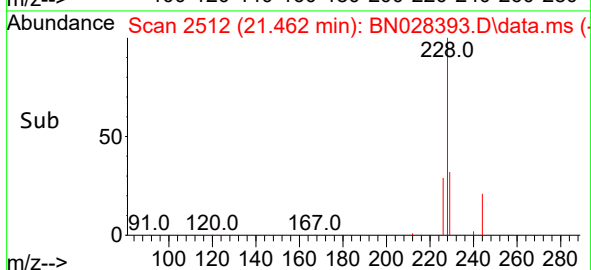
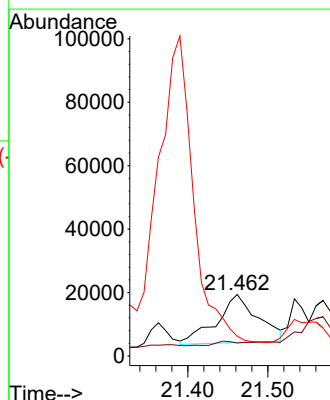
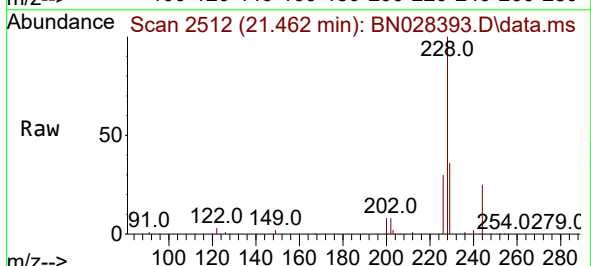
Tgt Ion:240 Resp: 54057

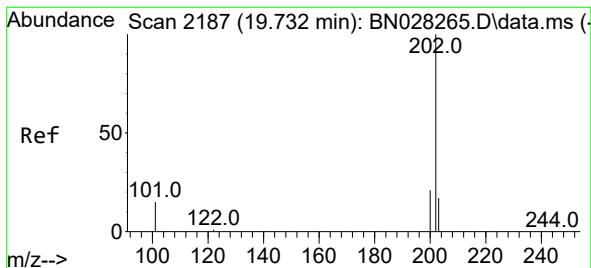
Ion Ratio Lower Upper

240 100

120 21.1 13.4 20.0#

236 32.3 22.7 34.1





#30

Pyrene

Concen: 1.571 ng

RT: 19.634 min Scan# 21

Delta R.T. -0.093 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

Instrument :

BNA_N

ClientSampleId :

A-5(0-2)

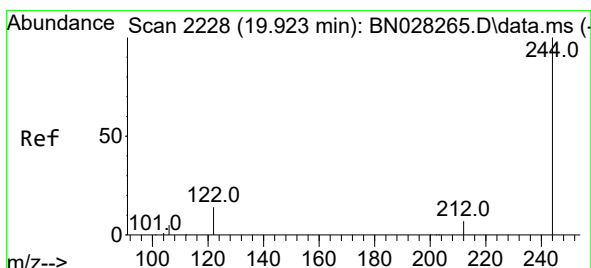
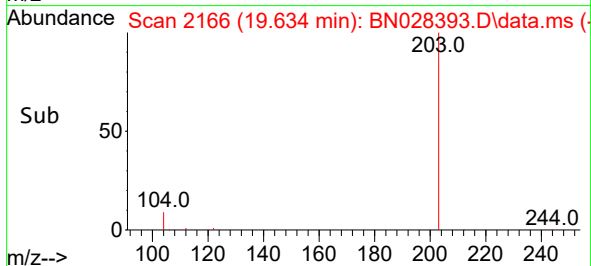
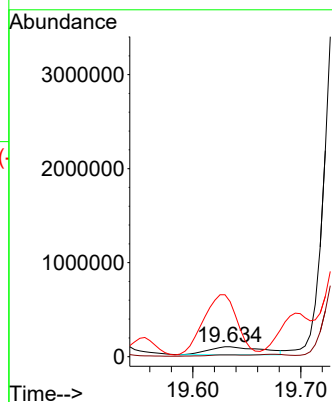
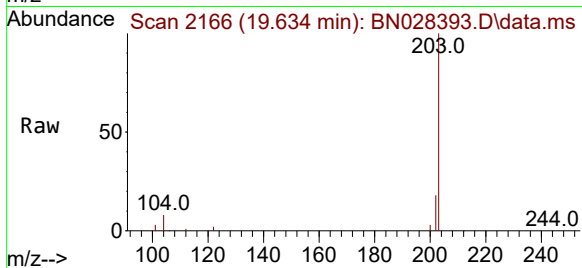
Tgt Ion:202 Resp: 290556

Ion Ratio Lower Upper

202 100

200 0.0 16.7 25.1#

203 478.9 14.5 21.7#



#31

Terphenyl-d14

Concen: 0.313 ng

RT: 19.904 min Scan# 2224

Delta R.T. -0.014 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

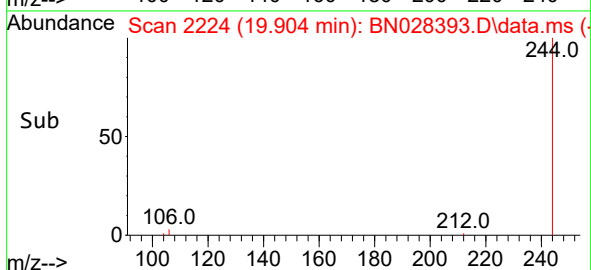
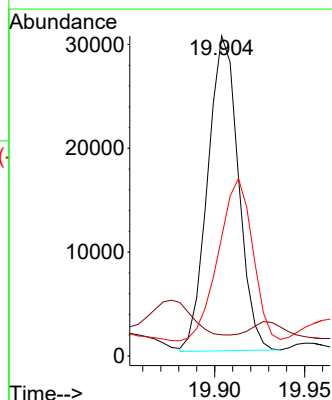
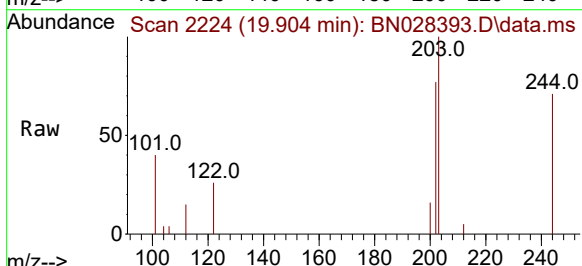
Tgt Ion:244 Resp: 35958

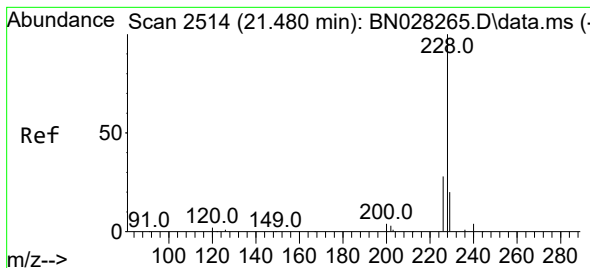
Ion Ratio Lower Upper

244 100

212 6.6 6.6 10.0#

122 37.1 11.7 17.5#





#32

Benzo(a)anthracene

Concen: 107.072 ng

RT: 21.569 min Scan# 21

Delta R.T. 0.099 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

Instrument :

BNA_N

ClientSampleId :

A-5(0-2)

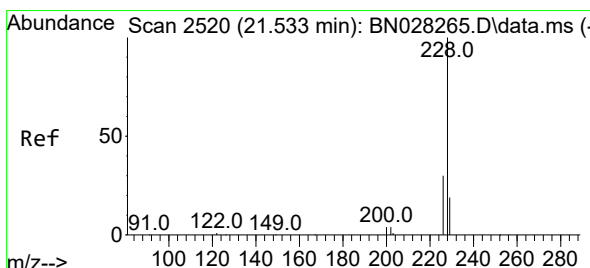
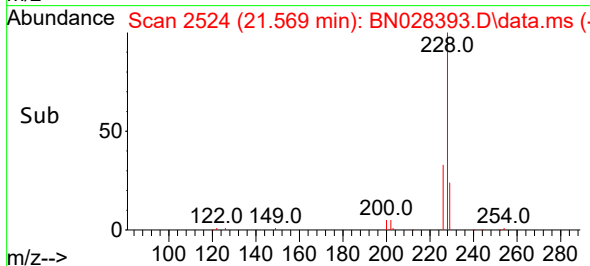
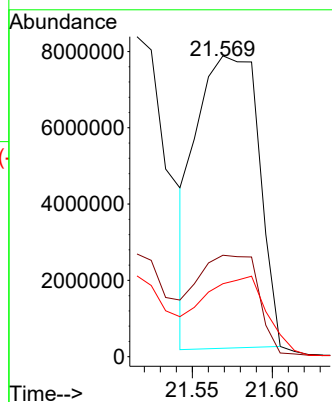
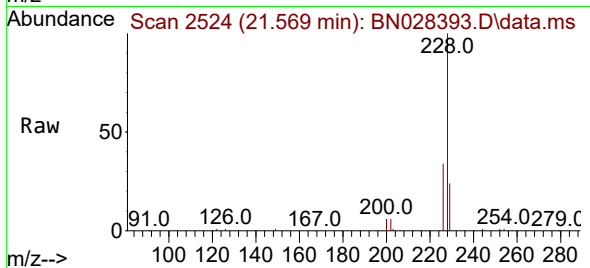
Tgt Ion:228 Resp:20561752

Ion Ratio Lower Upper

228 100

226 33.7 22.9 34.3

229 24.2 16.6 24.8



#33

Chrysene

Concen: 113.697 ng

RT: 21.569 min Scan# 2524

Delta R.T. 0.045 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

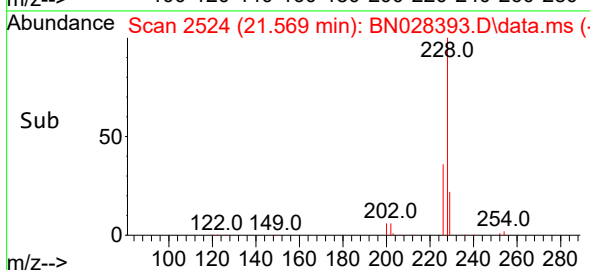
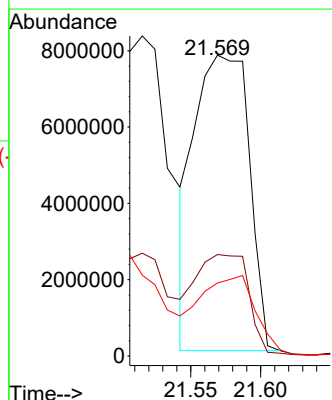
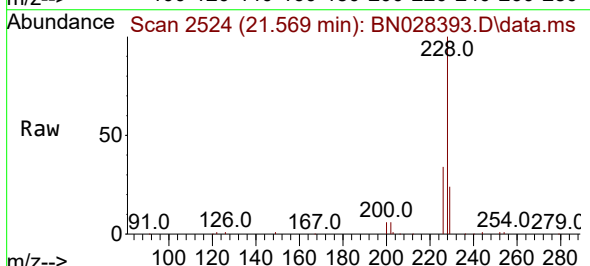
Tgt Ion:228 Resp:20897336

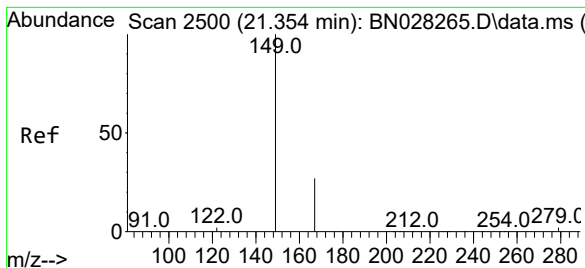
Ion Ratio Lower Upper

228 100

226 33.7 25.2 37.8

229 24.2 16.6 25.0

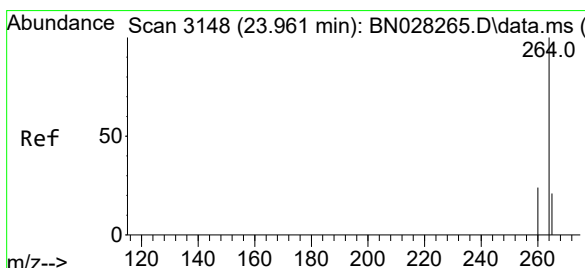
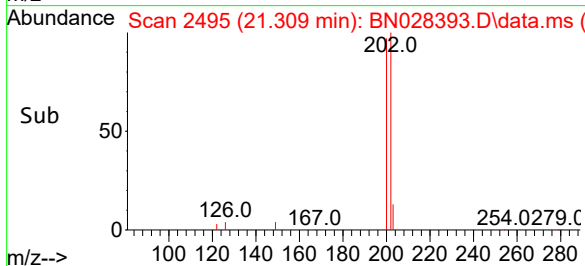
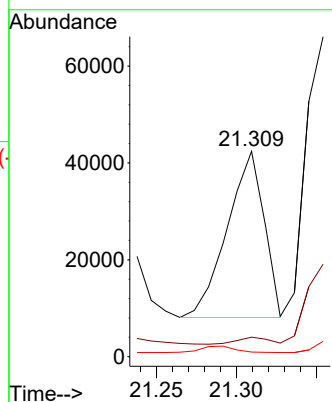
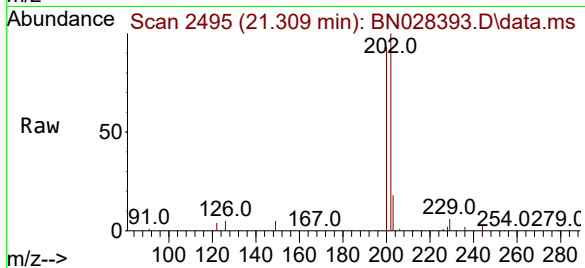




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.375 ng
 RT: 21.309 min Scan# 2495
 Delta R.T. -0.036 min
 Lab File: BN028393.D
 Acq: 25 Oct 2023 02:38

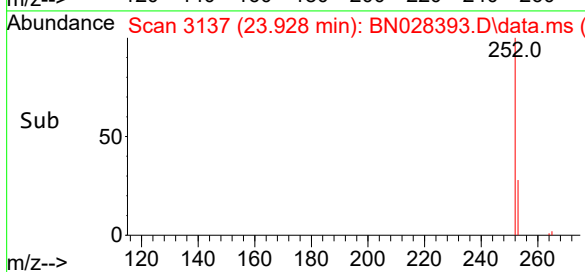
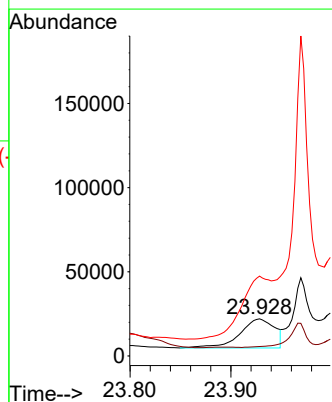
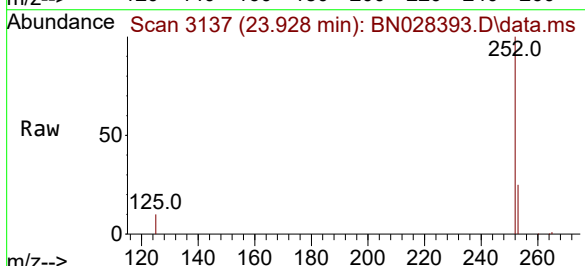
Instrument :
 BNA_N
 ClientSampleId :
 A-5(0-2)

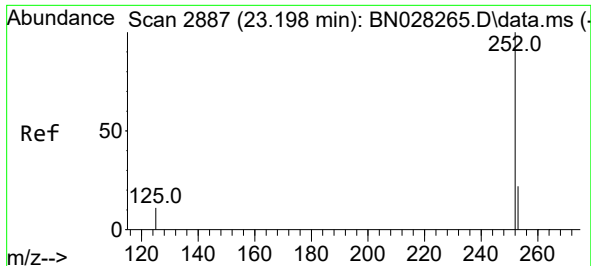
Tgt Ion:149 Resp: 54939
 Ion Ratio Lower Upper
 149 100
 167 3.6 22.6 34.0#
 279 3.5 4.2 6.2#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.928 min Scan# 3137
 Delta R.T. -0.009 min
 Lab File: BN028393.D
 Acq: 25 Oct 2023 02:38

Tgt Ion:264 Resp: 41396
 Ion Ratio Lower Upper
 264 100
 260 25.5 20.7 31.1
 265 215.3 38.3 57.5#





#37

Benzo(b)fluoranthene

Concen: 359.107 ng

RT: 23.279 min Scan# 2915

Delta R.T. 0.102 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

Instrument :

BNA_N

ClientSampleId :

A-5(0-2)

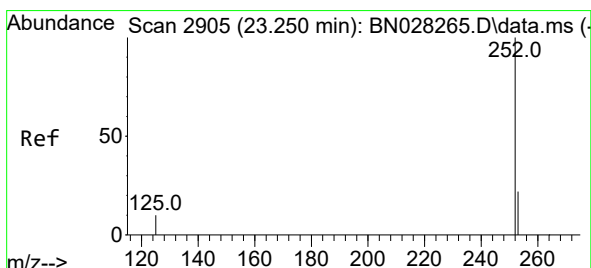
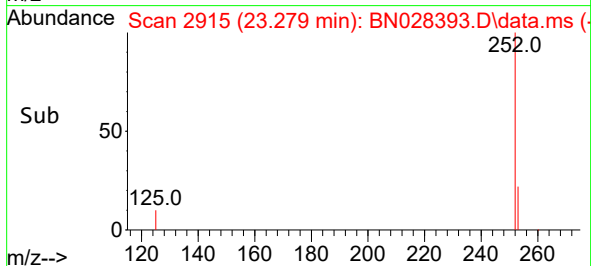
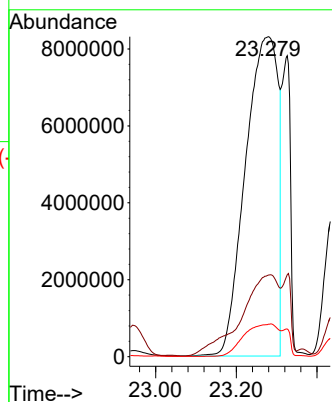
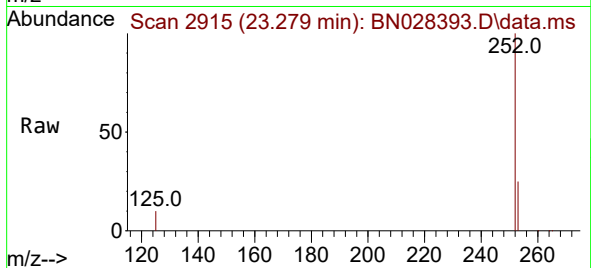
Tgt Ion:252 Resp:46465811

Ion Ratio Lower Upper

252 100

253 25.5 21.8 32.8

125 10.1 15.6 23.4#



#38

Benzo(k)fluoranthene

Concen: 309.017 ng

RT: 23.279 min Scan# 2915

Delta R.T. 0.053 min

Lab File: BN028393.D

Acq: 25 Oct 2023 02:38

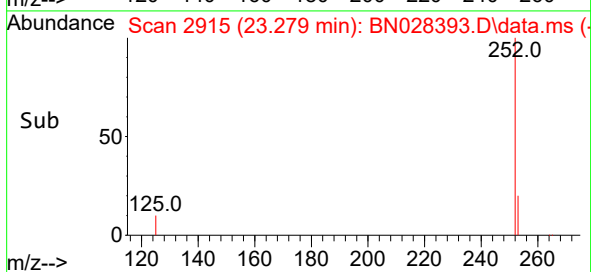
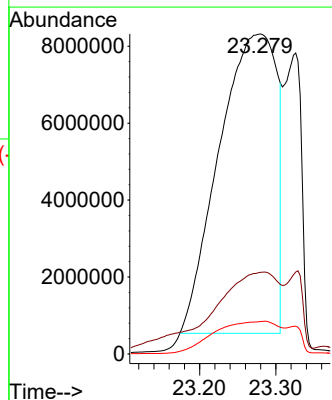
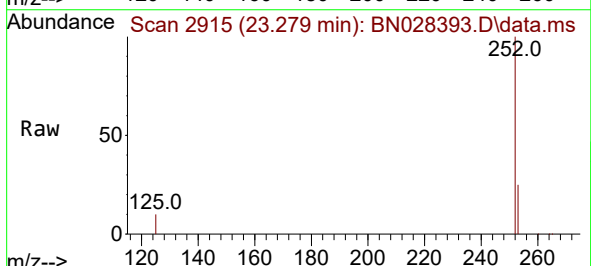
Tgt Ion:252 Resp:40675097

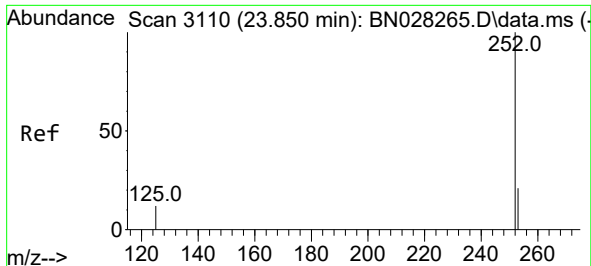
Ion Ratio Lower Upper

252 100

253 25.5 22.0 33.0

125 10.1 15.3 22.9#

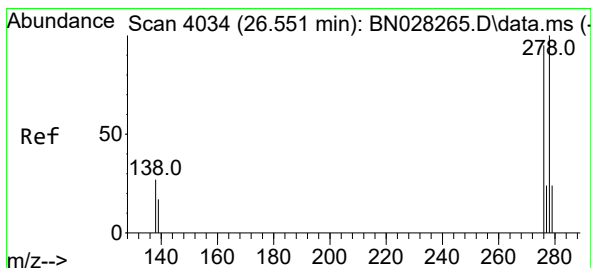
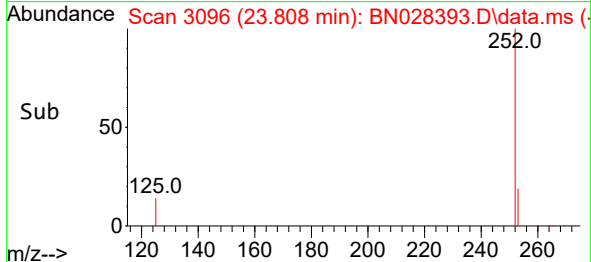
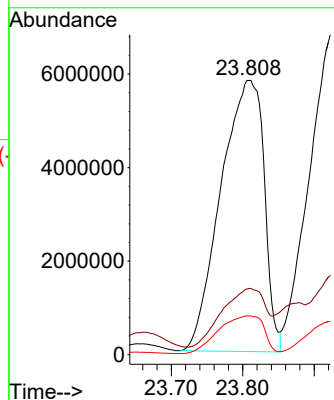
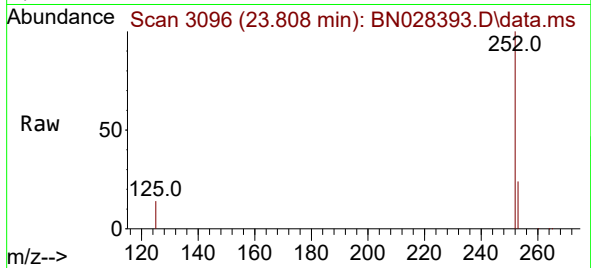




#39
Benzo(a)pyrene
Concen: 189.516 ng
RT: 23.808 min Scan# 30
Delta R.T. -0.020 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

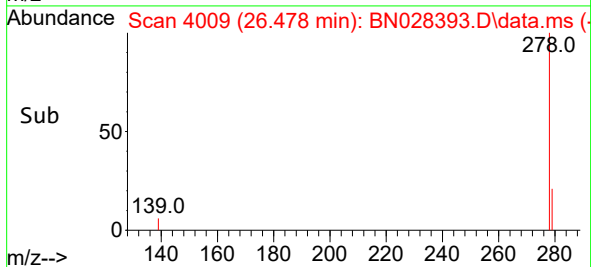
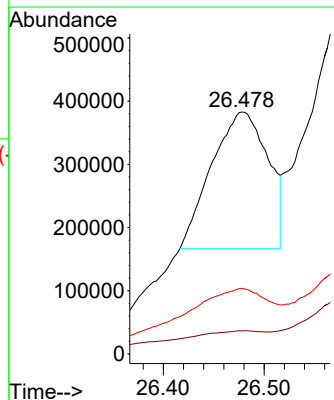
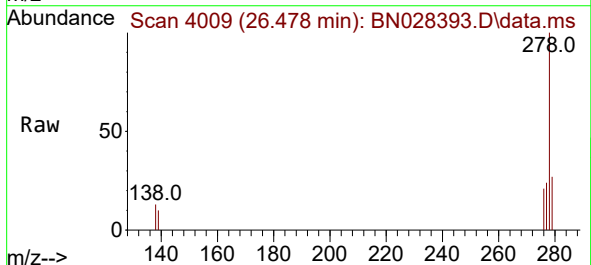
Instrument :
BNA_N
ClientSampleId :
A-5(0-2)

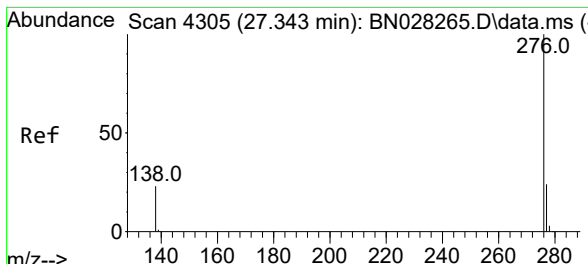
Tgt Ion:252 Resp:24393700
Ion Ratio Lower Upper
252 100
253 24.1 22.7 34.1
125 14.1 17.0 25.6#



#40
Dibenzo(a,h)anthracene
Concen: 6.206 ng
RT: 26.478 min Scan# 4009
Delta R.T. -0.041 min
Lab File: BN028393.D
Acq: 25 Oct 2023 02:38

Tgt Ion:278 Resp: 840793
Ion Ratio Lower Upper
278 100
139 9.5 18.8 28.2#
279 27.1 23.5 35.3





#41
 Benzo(g,h,i)perylene
 Concen: 185.103 ng
 RT: 27.551 min Scan# 41
 Delta R.T. 0.246 min
 Lab File: BN028393.D
 Acq: 25 Oct 2023 02:38

Instrument :
 BNA_N
 ClientSampleId :
 A-5(0-2)

Tgt Ion:276 Resp:25893848

Ion	Ratio	Lower	Upper
276	100		
277	27.7	21.7	32.5
138	23.7	21.7	32.5

