

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062723\
 Data File : BN026045.D
 Acq On : 27 Jun 2023 20:01
 Operator : MA/JU
 Sample : 03376-09
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TW-2

Quant Time: Jun 28 05:50:59 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 28 05:23:31 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

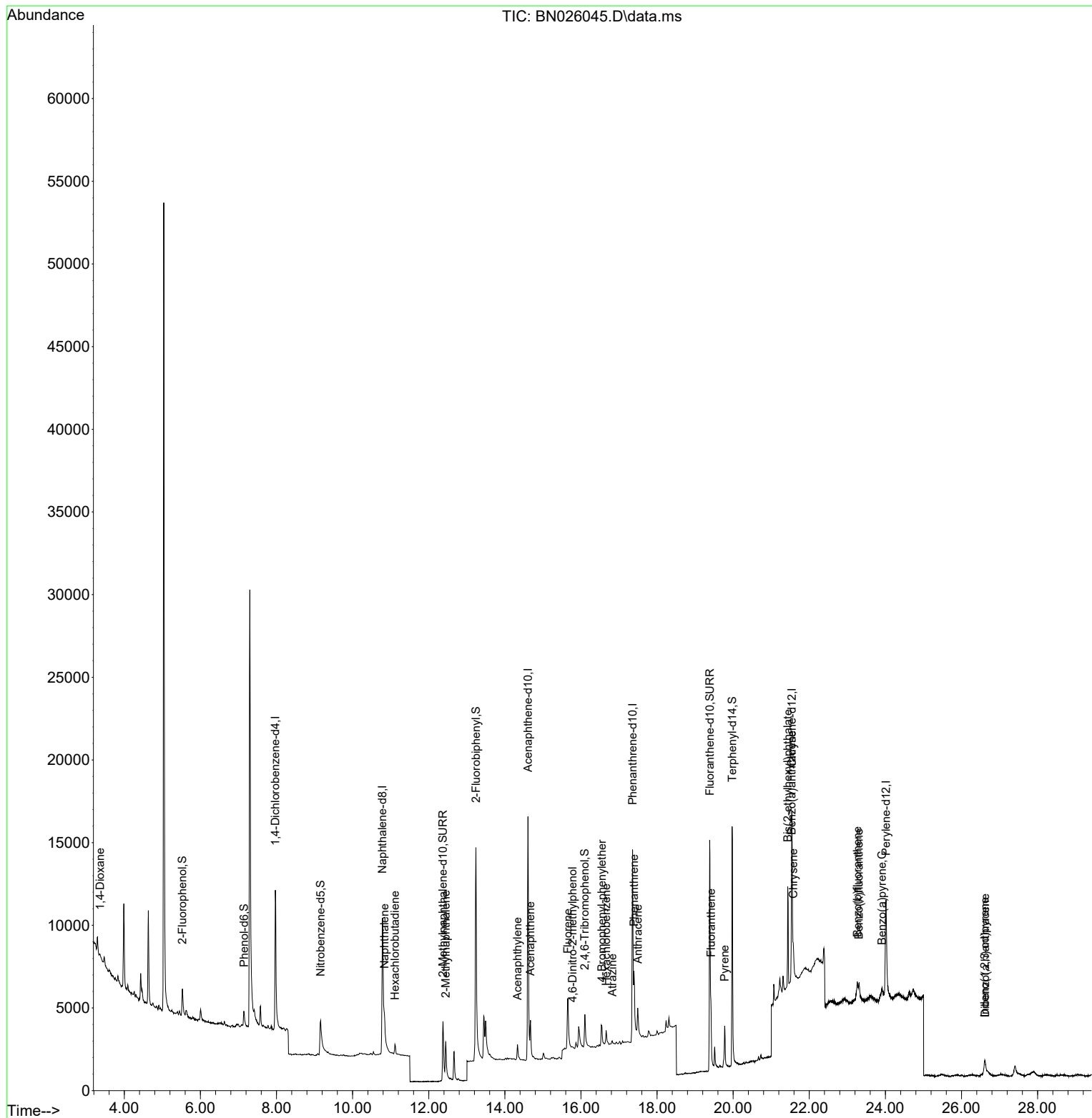
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.969	152	5484	0.400	ng	0.00
7) Naphthalene-d8	10.782	136	16137	0.400	ng	0.00
13) Acenaphthene-d10	14.609	164	10090	0.400	ng	0.00
19) Phenanthrene-d10	17.356	188	20730	0.400	ng	0.00
29) Chrysene-d12	21.542	240	11565	0.400	ng	0.00
35) Perylene-d12	24.016	264	10424	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.528	112	2026	0.152	ng	0.00
5) Phenol-d6	7.146	99	1492	0.088	ng	0.00
8) Nitrobenzene-d5	9.159	82	3818	0.277	ng	0.01
11) 2-Methylnaphthalene-d10	12.374	152	7427	0.315	ng	0.00
14) 2,4,6-Tribromophenol	16.102	330	1353	0.369	ng	0.00
15) 2-Fluorobiphenyl	13.240	172	15873	0.407	ng	0.00
27) Fluoranthene-d10	19.384	212	18516	0.422	ng	0.00
31) Terphenyl-d14	19.974	244	16805	0.568	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.361	88	224	0.039	ng	# 67
9) Naphthalene	10.835	128	3165	0.072	ng	# 88
10) Hexachlorobutadiene	11.113	225	532	0.063	ng	# 99
12) 2-Methylnaphthalene	12.449	142	2376	0.077	ng	95
16) Acenaphthylene	14.331	152	1411	0.030	ng	# 96
17) Acenaphthene	14.673	154	1165	0.038	ng	97
18) Fluorene	15.656	166	2457	0.062	ng	100
20) 4,6-Dinitro-2-methylph...	15.780	198	13	0.062	ng	# 1
21) 4-Bromophenyl-phenylether	16.549	248	696	0.059	ng	# 85
22) Hexachlorobenzene	16.661	284	638	0.054	ng	# 94
23) Atrazine	16.822	200	215	0.021	ng	# 42
25) Phenanthrene	17.393	178	4731	0.078	ng	98
26) Anthracene	17.493	178	2771	0.051	ng	98
28) Fluoranthene	19.416	202	3386	0.053	ng	# 95
30) Pyrene	19.779	202	2661	0.042	ng	99
32) Benzo(a)anthracene	21.533	228	1384	0.033	ng	# 81
33) Chrysene	21.578	228	1550	0.033	ng	# 82
34) Bis(2-ethylhexyl)phtha...	21.435	149	6452	0.174	ng	98
36) Indeno(1,2,3-cd)pyrene	26.610	276	1442	0.034	ng	# 73
37) Benzo(b)fluoranthene	23.262	252	1435	0.038	ng	# 1
38) Benzo(k)fluoranthene	23.306	252	1167	0.029	ng	# 1
39) Benzo(a)pyrene	23.914	252	955	0.026	ng	# 1
40) Dibenzo(a,h)anthracene	26.624	278	981	0.029	ng	# 1

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

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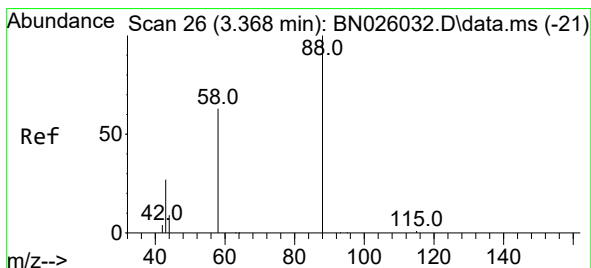
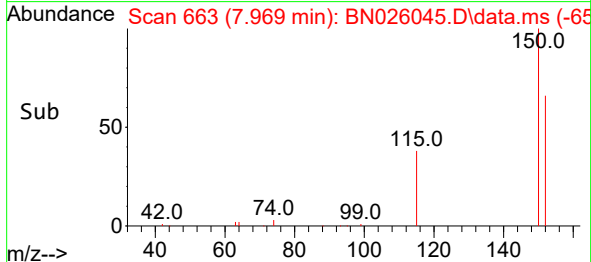
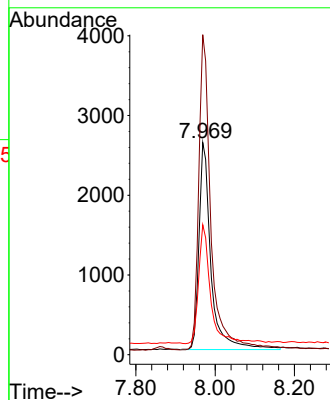
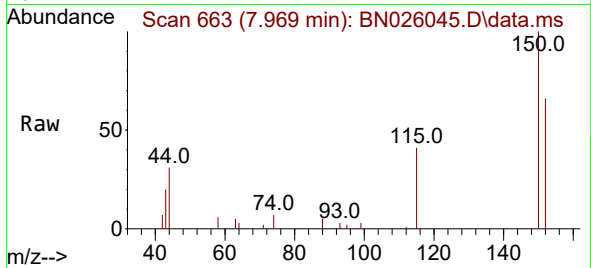




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.969 min Scan# 6
 Delta R.T. -0.007 min
 Lab File: BN026045.D
 Acq: 27 Jun 2023 20:01

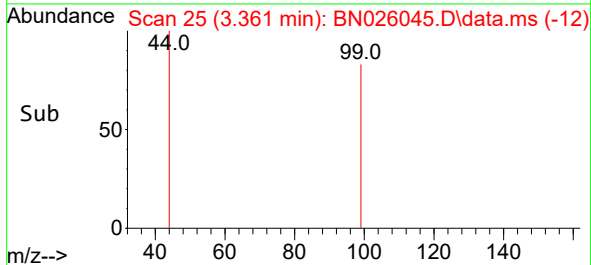
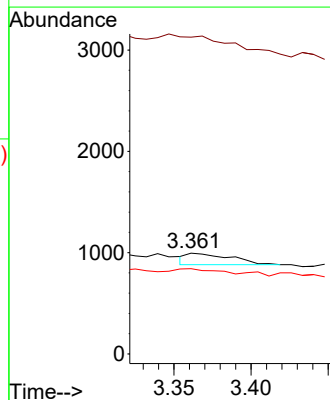
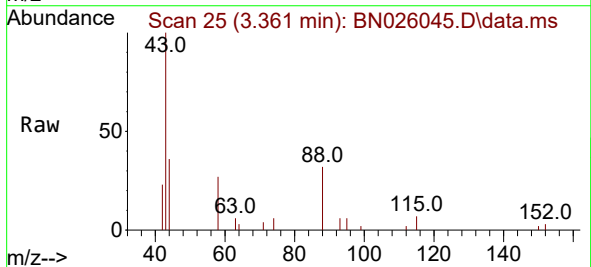
Instrument :
 BNA_N
 ClientSampleId :
 TW-2

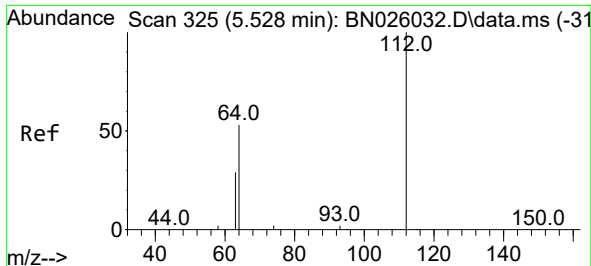
Tgt Ion:152 Resp: 5484
 Ion Ratio Lower Upper
 152 100
 150 150.8 124.7 187.1
 115 61.2 48.2 72.4



#2
 1,4-Dioxane
 Concen: 0.039 ng
 RT: 3.361 min Scan# 25
 Delta R.T. -0.007 min
 Lab File: BN026045.D
 Acq: 27 Jun 2023 20:01

Tgt Ion: 88 Resp: 224
 Ion Ratio Lower Upper
 88 100
 43 0.0 24.2 36.4#
 58 84.8 53.3 79.9#

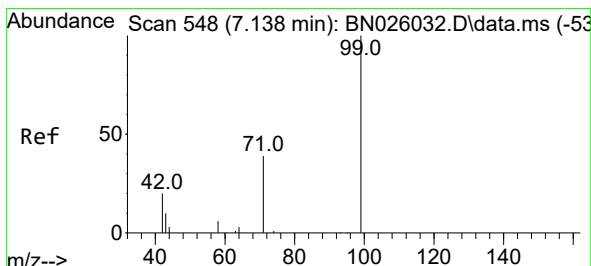
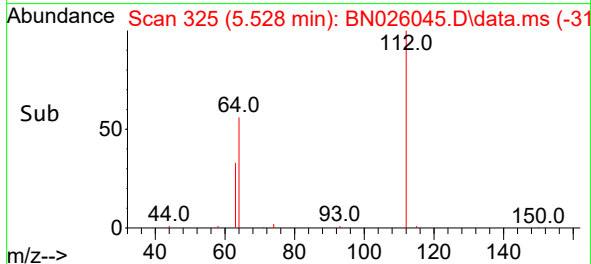
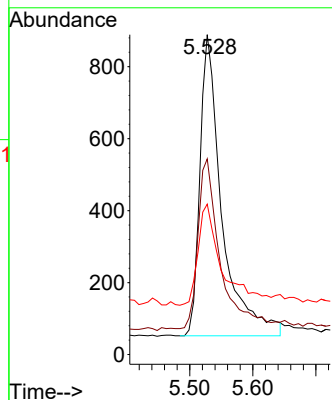
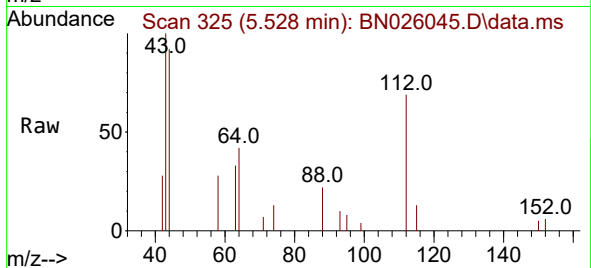




#4
2-Fluorophenol
Concen: 0.152 ng
RT: 5.528 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

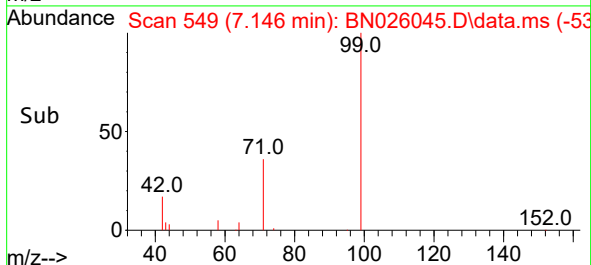
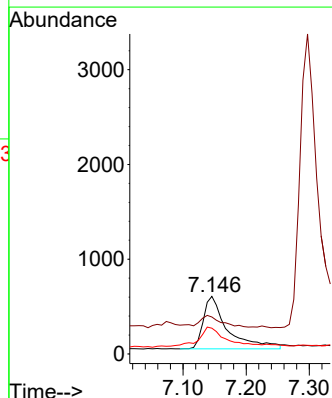
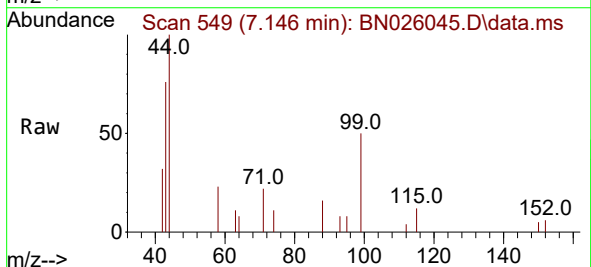
Instrument :
BNA_N
ClientSampleId :
TW-2

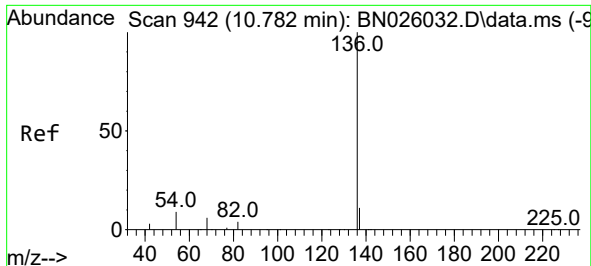
Tgt Ion:112 Resp: 2026
Ion Ratio Lower Upper
112 100
64 56.5 45.8 68.6
63 36.8 27.4 41.2



#5
Phenol-d6
Concen: 0.088 ng
RT: 7.146 min Scan# 549
Delta R.T. 0.007 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

Tgt Ion: 99 Resp: 1492
Ion Ratio Lower Upper
99 100
42 18.2 18.4 27.6#
71 44.6 30.6 46.0

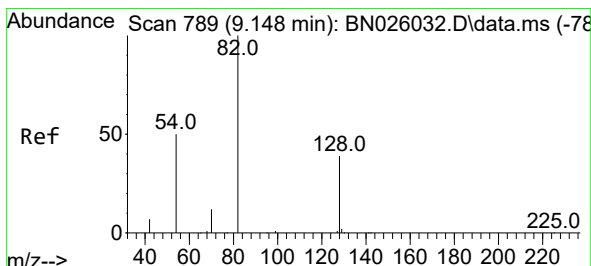
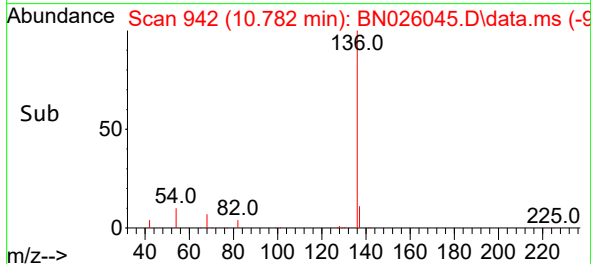
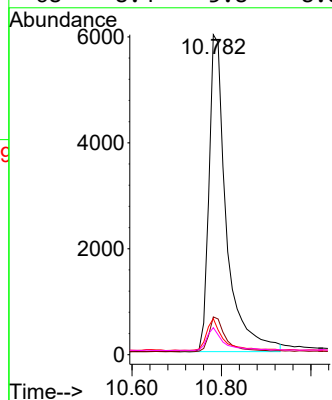
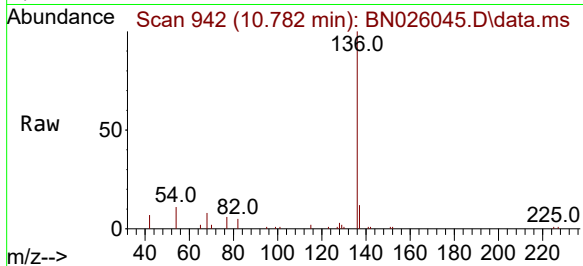




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.782 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

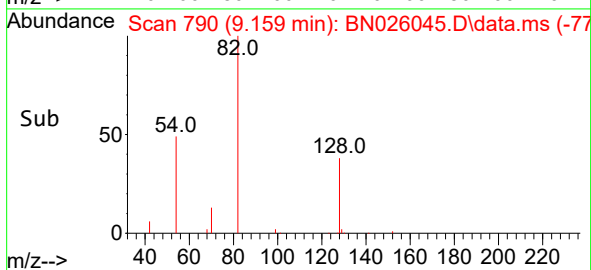
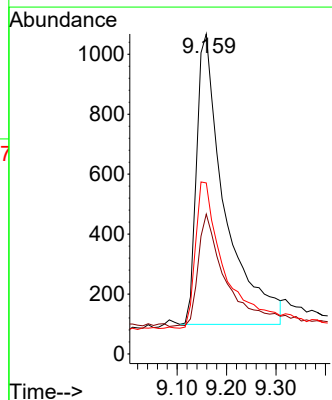
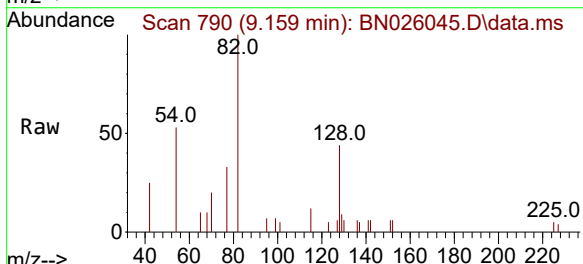
Instrument :
BNA_N
ClientSampleId :
TW-2

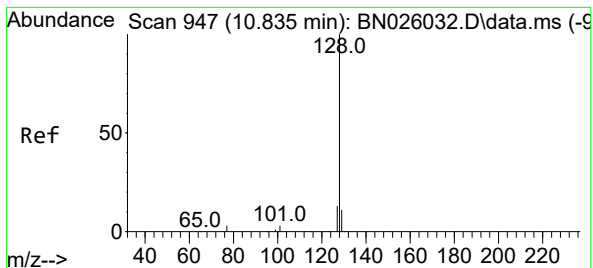
Tgt Ion:	136	Resp:	16137
Ion Ratio	Lower	Upper	
136	100		
137	11.8	9.0	13.4
54	11.3	7.8	11.6
68	8.4	5.8	8.8



#8
Nitrobenzene-d5
Concen: 0.277 ng
RT: 9.159 min Scan# 790
Delta R.T. 0.011 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

Tgt Ion:	82	Resp:	3818
Ion Ratio	Lower	Upper	
82	100		
128	43.7	33.4	50.2
54	53.5	41.7	62.5





#9

Naphthalene

Concen: 0.072 ng

RT: 10.835 min Scan# 947

Delta R.T. 0.000 min

Lab File: BN026045.D

Acq: 27 Jun 2023 20:01

Instrument :

BNA_N

ClientSampleId :

TW-2

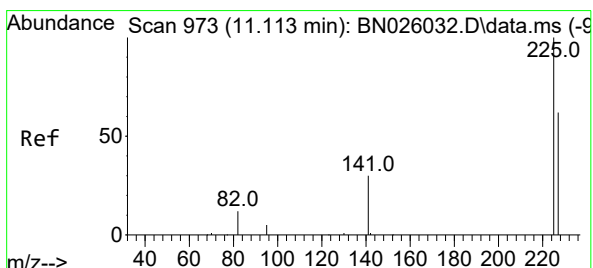
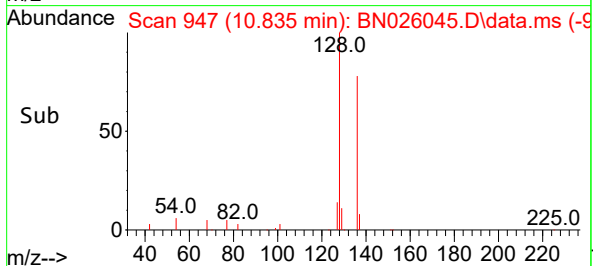
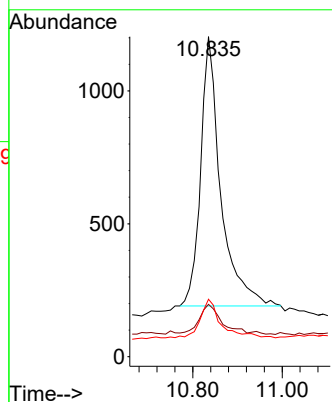
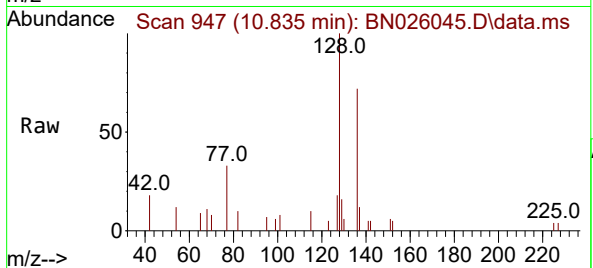
Tgt Ion:128 Resp: 3165

Ion Ratio Lower Upper

128 100

129 16.4 9.1 13.7#

127 17.9 10.9 16.3#



#10

Hexachlorobutadiene

Concen: 0.063 ng

RT: 11.113 min Scan# 973

Delta R.T. 0.000 min

Lab File: BN026045.D

Acq: 27 Jun 2023 20:01

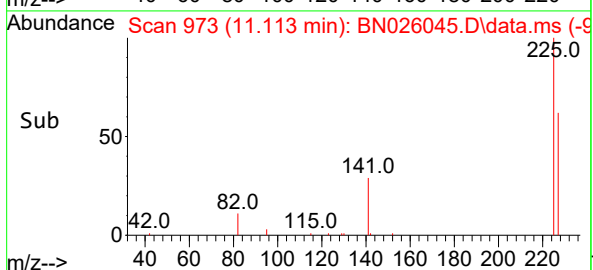
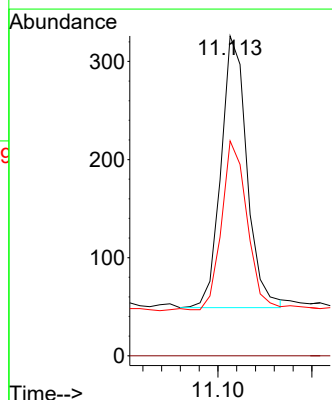
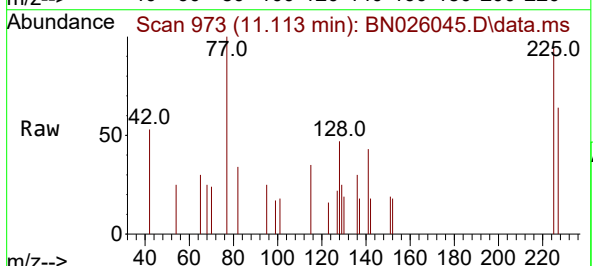
Tgt Ion:225 Resp: 532

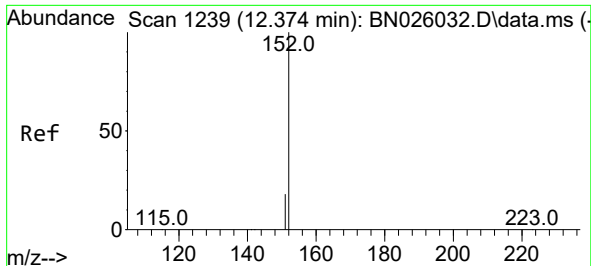
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.2 50.3 75.5

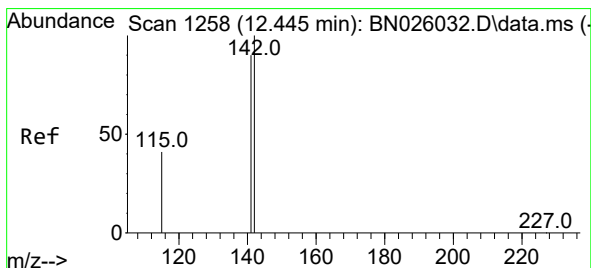
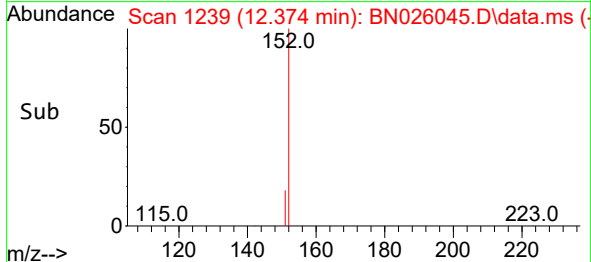
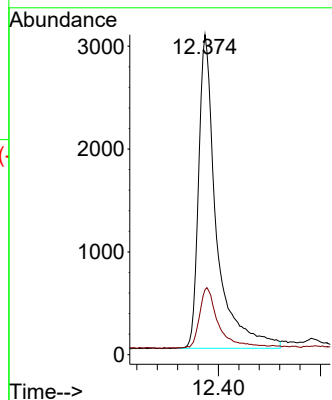
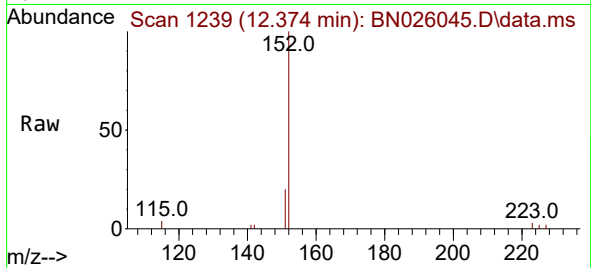




#11
2-Methylnaphthalene-d10
Concen: 0.315 ng
RT: 12.374 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

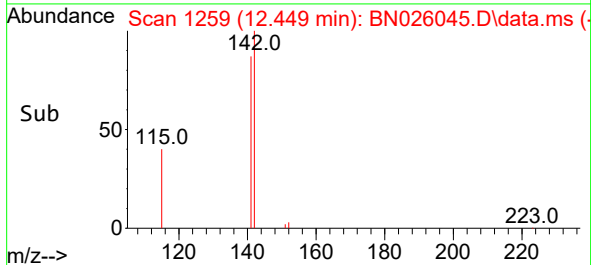
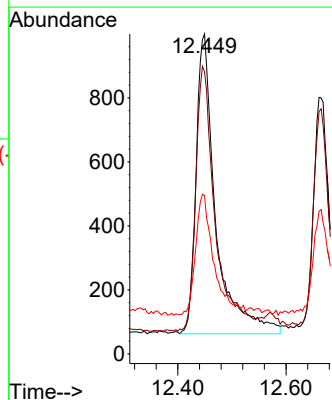
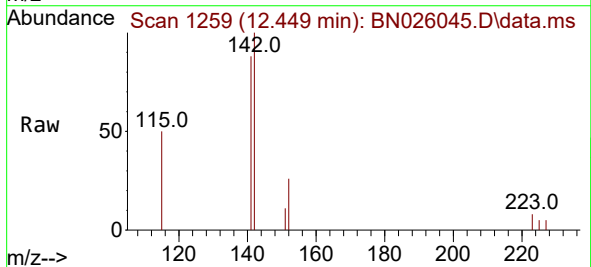
Instrument :
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ClientSampleId :
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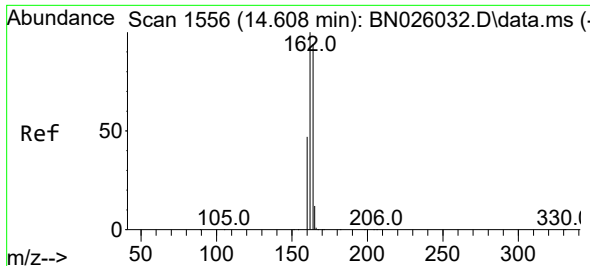
Tgt Ion:152 Resp: 7427
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.2



#12
2-Methylnaphthalene
Concen: 0.077 ng
RT: 12.449 min Scan# 1259
Delta R.T. 0.004 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

Tgt Ion:142 Resp: 2376
Ion Ratio Lower Upper
142 100
141 88.2 71.7 107.5
115 49.5 33.4 50.0

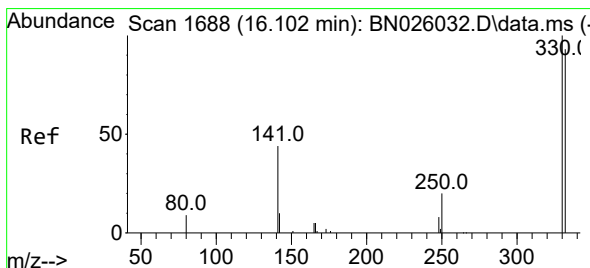
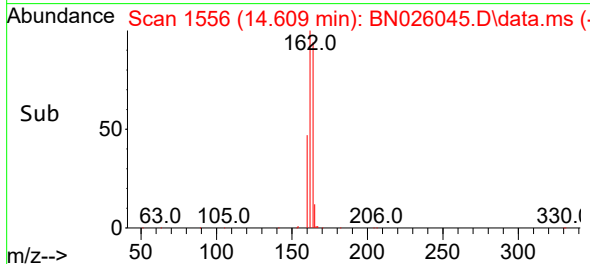
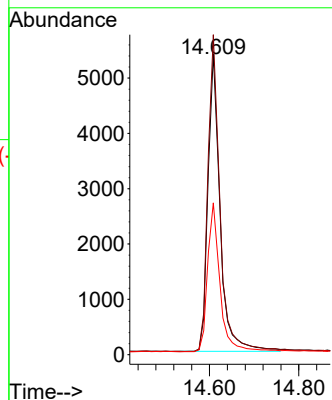
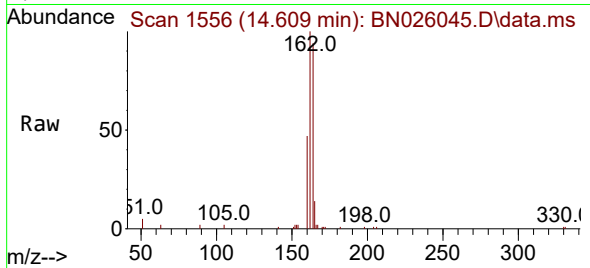




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.609 min Scan# 1556
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

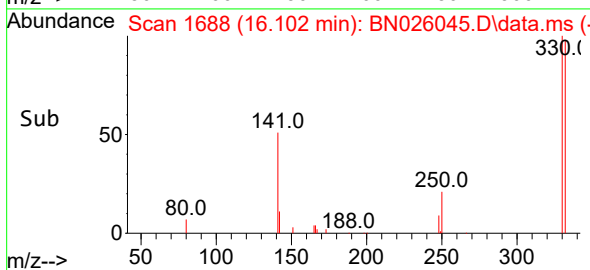
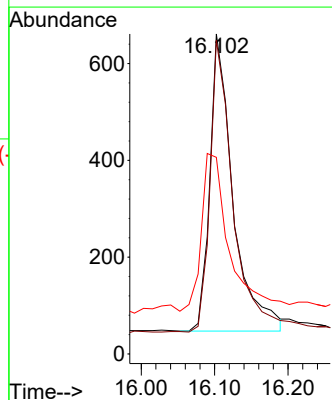
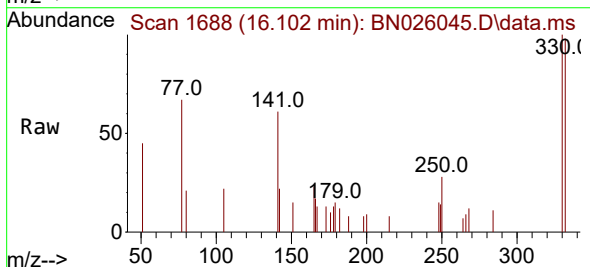
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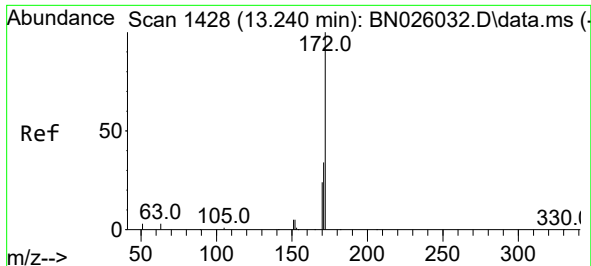
Tgt Ion:164 Resp: 10090
Ion Ratio Lower Upper
164 100
162 106.4 85.3 127.9
160 50.5 40.0 60.0



#14
2,4,6-Tribromophenol
Concen: 0.369 ng
RT: 16.102 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

Tgt Ion:330 Resp: 1353
Ion Ratio Lower Upper
330 100
332 98.1 76.0 114.0
141 63.9 42.8 64.2

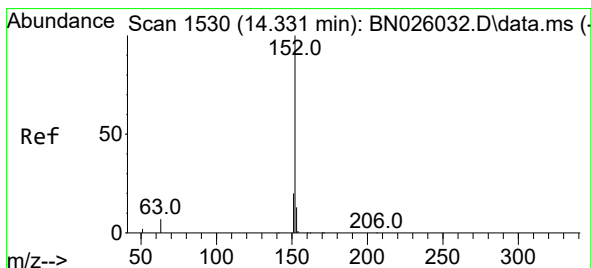
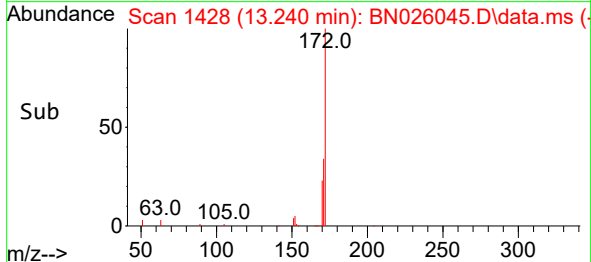
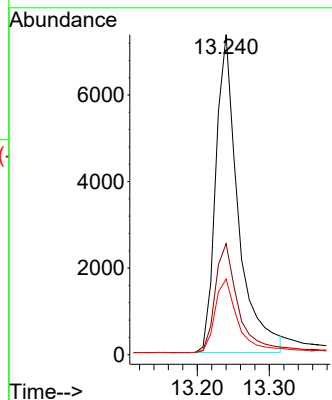
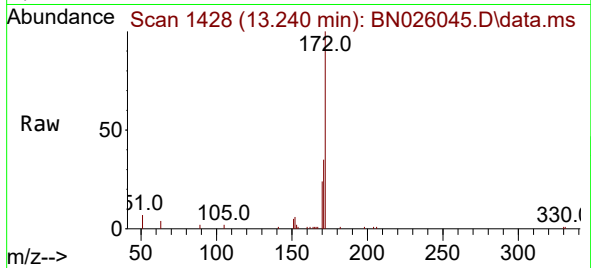




#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 13.240 min Scan# 1428
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

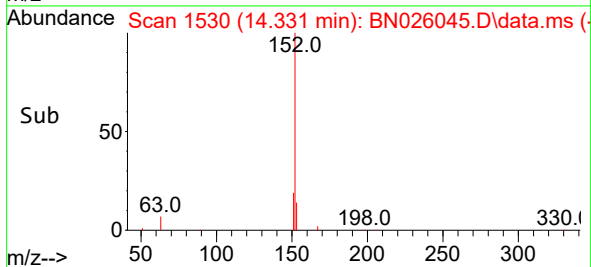
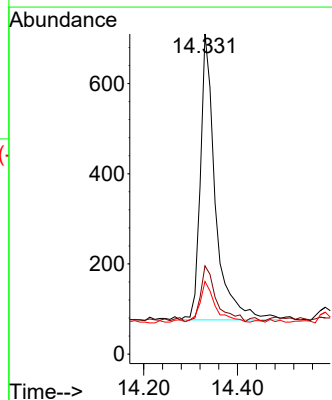
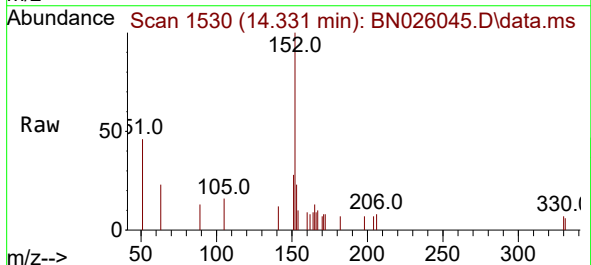
Instrument :
BNA_N
ClientSampleId :
TW-2

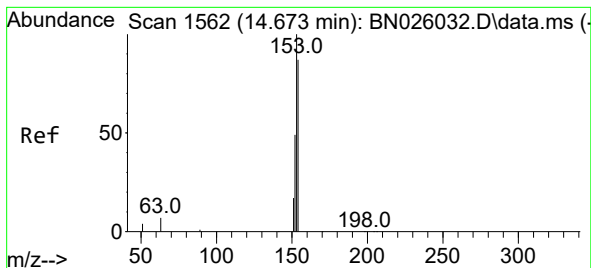
Tgt Ion:	172	Resp:	15873
Ion Ratio	Lower	Upper	
172	100		
171	34.7	27.8	41.8
170	23.6	19.3	28.9



#16
Acenaphthylene
Concen: 0.030 ng
RT: 14.331 min Scan# 1530
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

Tgt Ion:	152	Resp:	1411
Ion Ratio	Lower	Upper	
152	100		
151	20.1	15.9	23.9
153	16.5	10.6	15.8





#17

Acenaphthene

Concen: 0.038 ng

RT: 14.673 min Scan# 1562

Delta R.T. -0.000 min

Lab File: BN026045.D

Acq: 27 Jun 2023 20:01

Instrument :

BNA_N

ClientSampleId :

TW-2

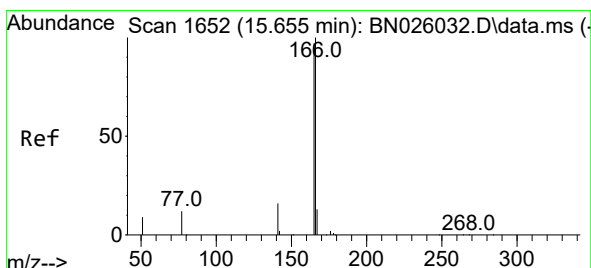
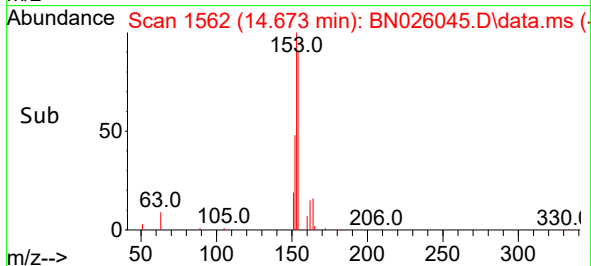
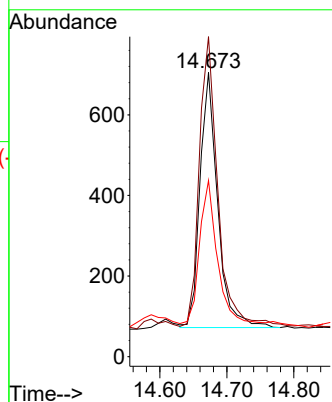
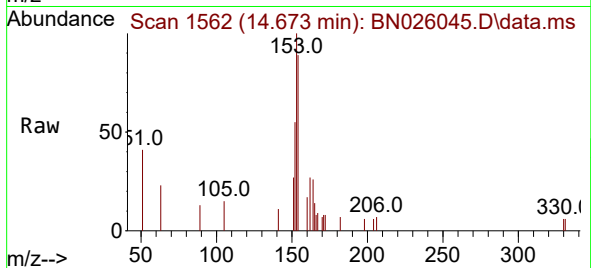
Tgt Ion:154 Resp: 1165

Ion Ratio Lower Upper

154 100

153 118.5 94.4 141.6

152 63.3 46.1 69.1



#18

Fluorene

Concen: 0.062 ng

RT: 15.656 min Scan# 1652

Delta R.T. 0.000 min

Lab File: BN026045.D

Acq: 27 Jun 2023 20:01

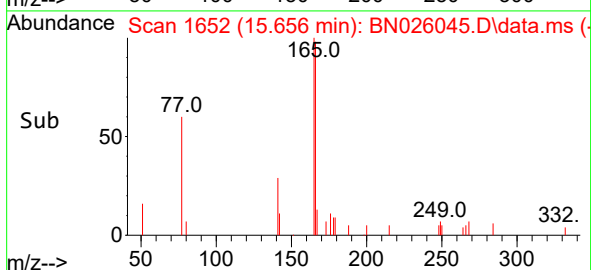
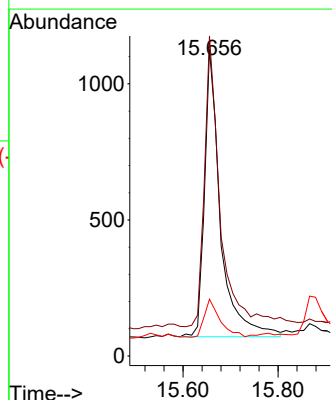
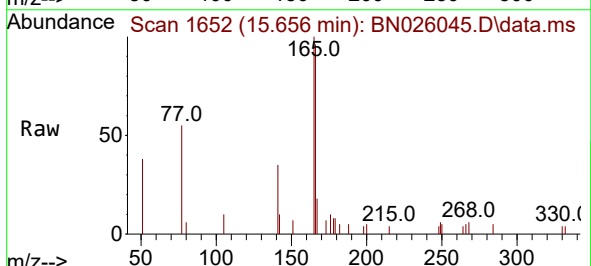
Tgt Ion:166 Resp: 2457

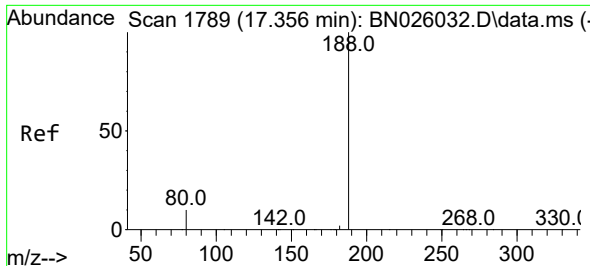
Ion Ratio Lower Upper

166 100

165 100.0 79.7 119.5

167 13.6 10.6 16.0

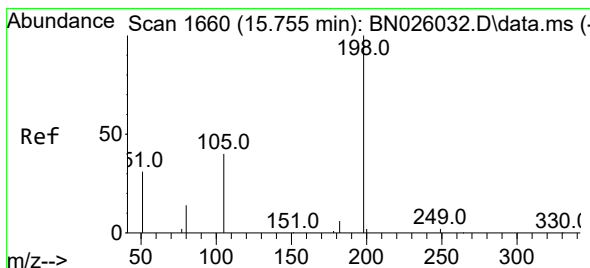
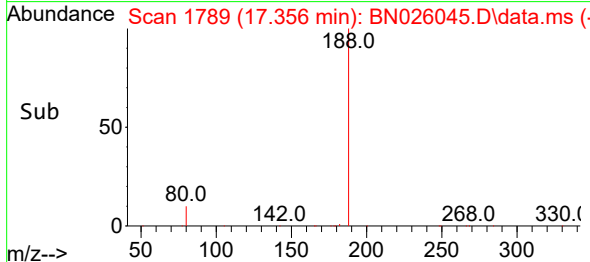
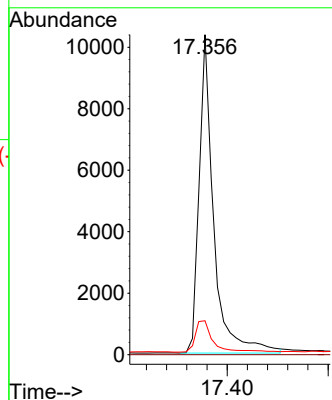
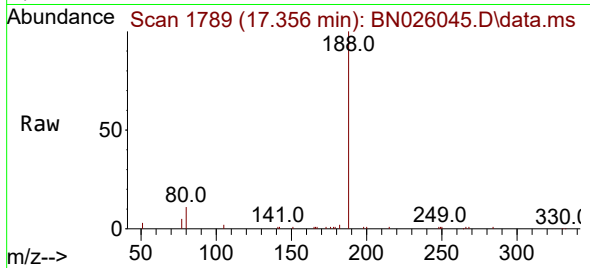




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.356 min Scan# 1789
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

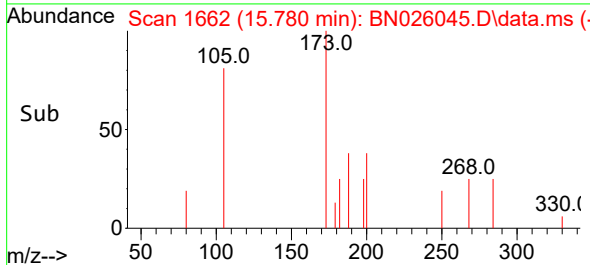
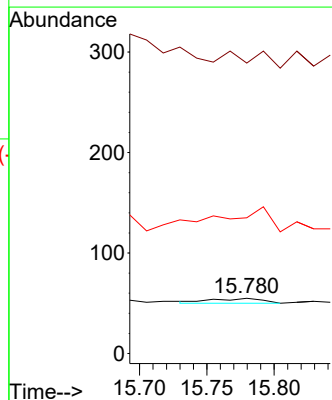
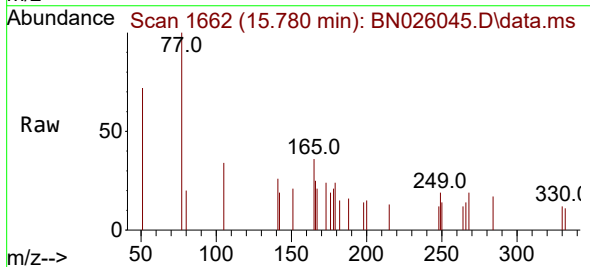
Instrument :
BNA_N
ClientSampleId :
TW-2

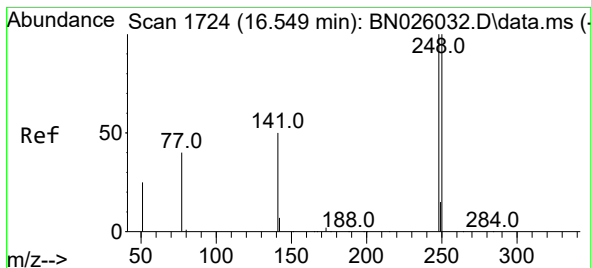
Tgt Ion:188 Resp: 20730
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.6 8.6 13.0



#20
4,6-Dinitro-2-methylphenol
Concen: 0.062 ng
RT: 15.780 min Scan# 1662
Delta R.T. 0.025 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

Tgt Ion:198 Resp: 13
Ion Ratio Lower Upper
198 100
51 525.5 85.8 128.8#
105 245.5 48.2 72.2#

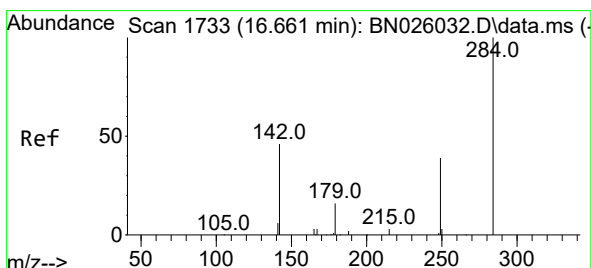
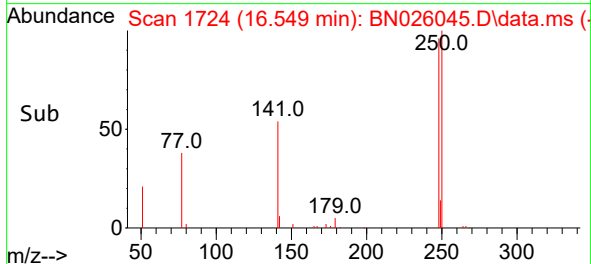
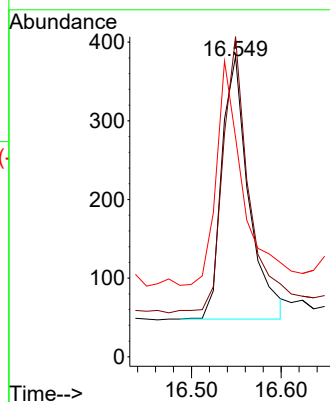
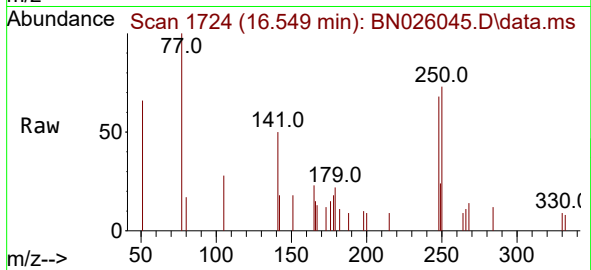




#21
4-Bromophenyl-phenylether
Concen: 0.059 ng
RT: 16.549 min Scan# 1724
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

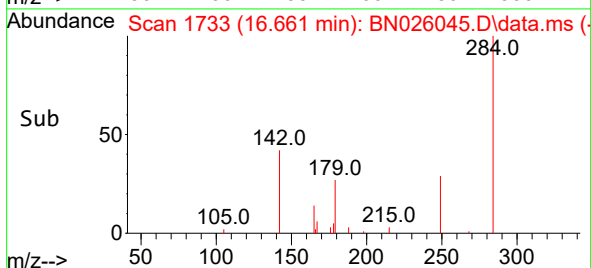
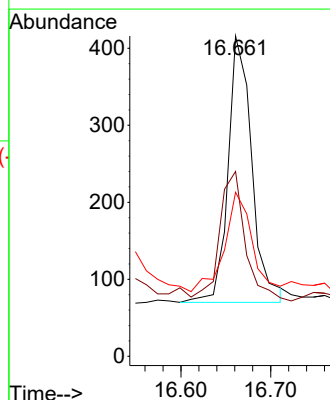
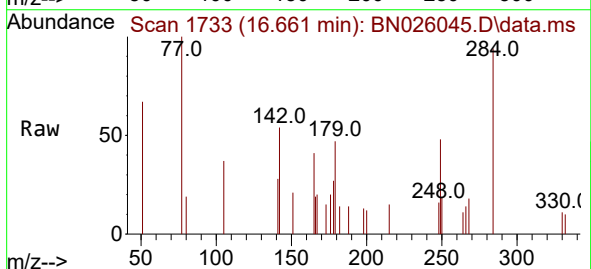
Instrument :
BNA_N
ClientSampleId :
TW-2

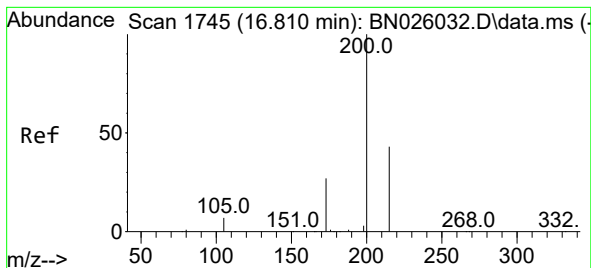
Tgt Ion:248 Resp: 696
Ion Ratio Lower Upper
248 100
250 106.5 79.9 119.9
141 73.0 41.6 62.4#



#22
Hexachlorobenzene
Concen: 0.054 ng
RT: 16.661 min Scan# 1733
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

Tgt Ion:284 Resp: 638
Ion Ratio Lower Upper
284 100
142 48.7 38.7 58.1
249 42.8 28.5 42.7#





#23

Atrazine

Concen: 0.021 ng

RT: 16.822 min Scan# 1746

Delta R.T. 0.012 min

Lab File: BN026045.D

Acq: 27 Jun 2023 20:01

Instrument :

BNA_N

ClientSampleId :

TW-2

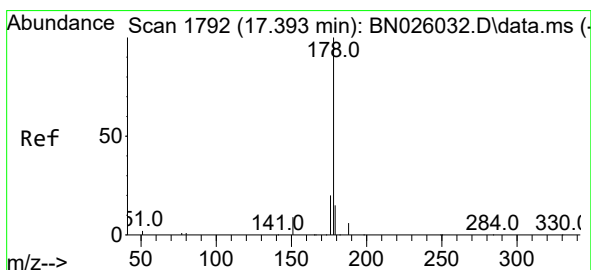
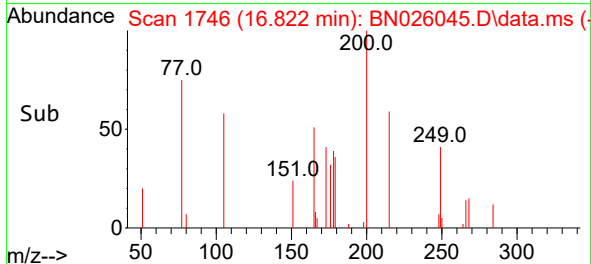
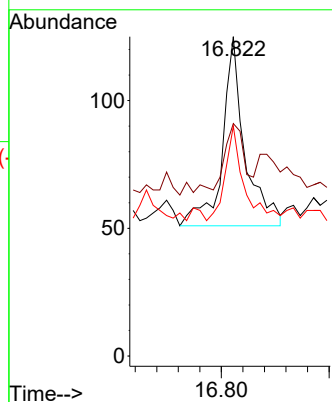
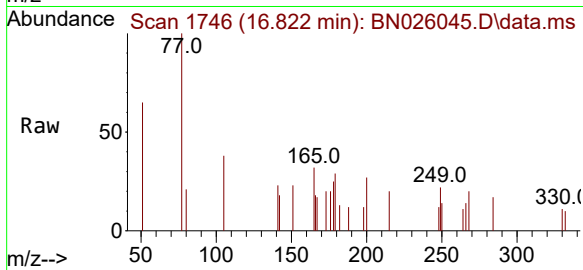
Tgt Ion:200 Resp: 215

Ion Ratio Lower Upper

200 100

173 72.8 22.9 34.3#

215 72.0 35.5 53.3#



#25

Phenanthrene

Concen: 0.078 ng

RT: 17.393 min Scan# 1792

Delta R.T. 0.000 min

Lab File: BN026045.D

Acq: 27 Jun 2023 20:01

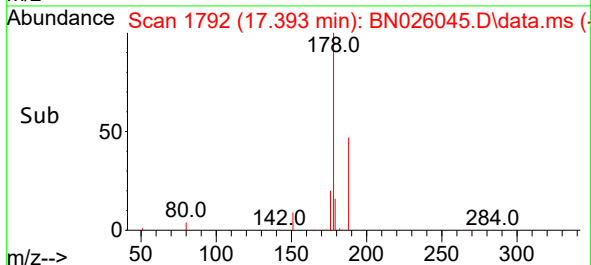
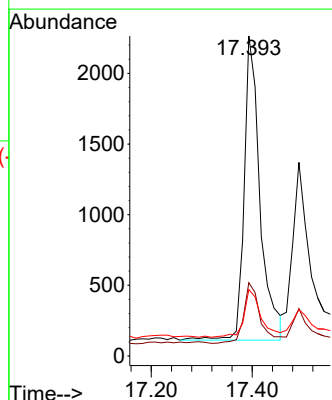
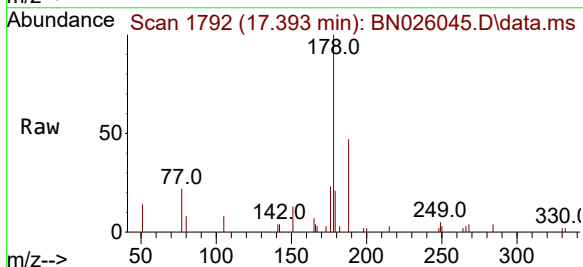
Tgt Ion:178 Resp: 4731

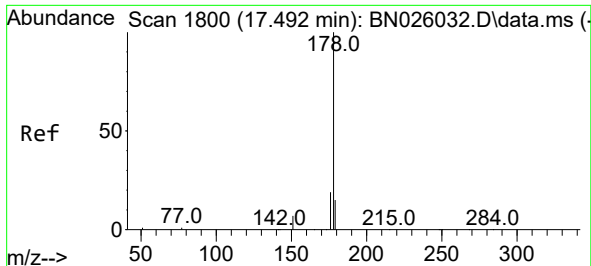
Ion Ratio Lower Upper

178 100

176 19.8 15.6 23.4

179 16.6 12.3 18.5

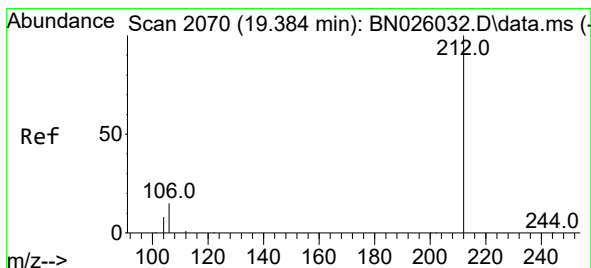
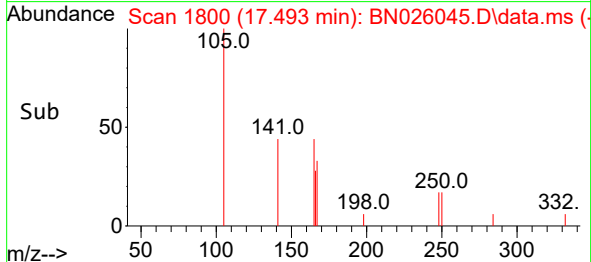
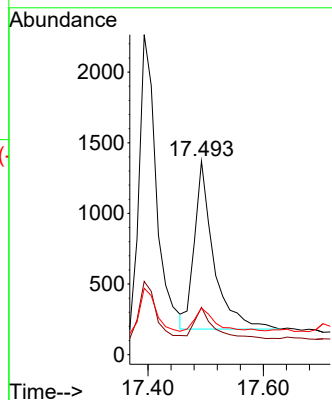
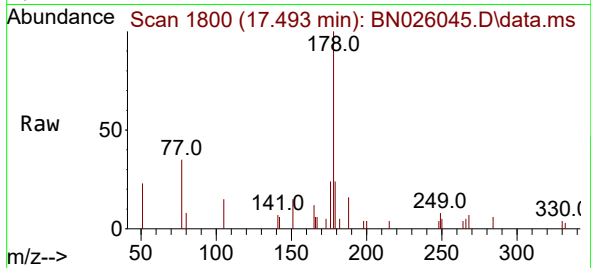




#26
 Anthracene
 Concen: 0.051 ng
 RT: 17.493 min Scan# 1800
 Delta R.T. 0.000 min
 Lab File: BN026045.D
 Acq: 27 Jun 2023 20:01

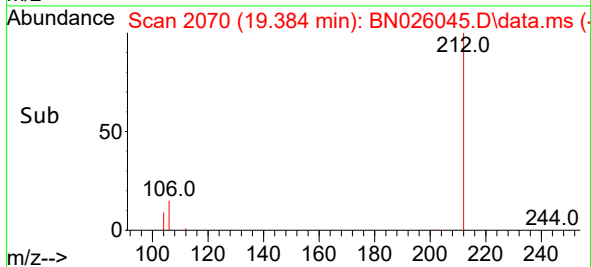
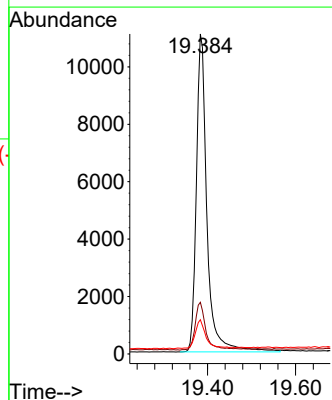
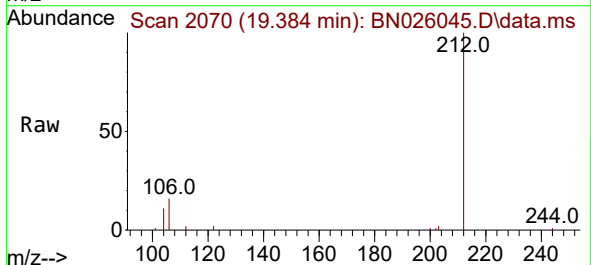
Instrument :
 BNA_N
 ClientSampleId :
 TW-2

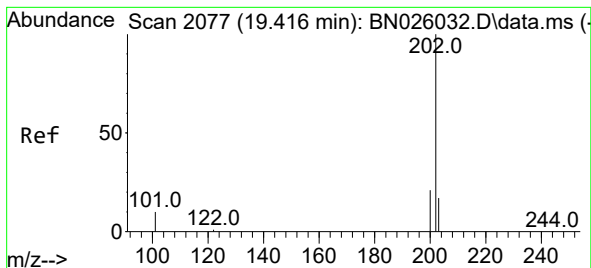
Tgt Ion:178 Resp: 2771
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.0 22.4
 179 14.6 12.4 18.6



#27
 Fluoranthene-d10
 Concen: 0.422 ng
 RT: 19.384 min Scan# 2070
 Delta R.T. 0.000 min
 Lab File: BN026045.D
 Acq: 27 Jun 2023 20:01

Tgt Ion:212 Resp: 18516
 Ion Ratio Lower Upper
 212 100
 106 15.4 11.6 17.4
 104 9.1 7.2 10.8





#28

Fluoranthene

Concen: 0.053 ng

RT: 19.416 min Scan# 2077

Delta R.T. 0.000 min

Lab File: BN026045.D

Acq: 27 Jun 2023 20:01

Instrument :

BNA_N

ClientSampleId :

TW-2

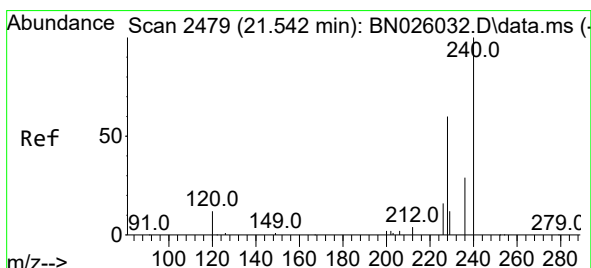
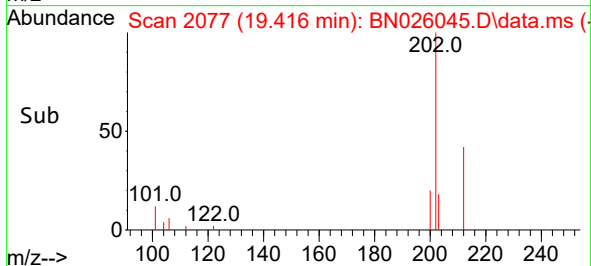
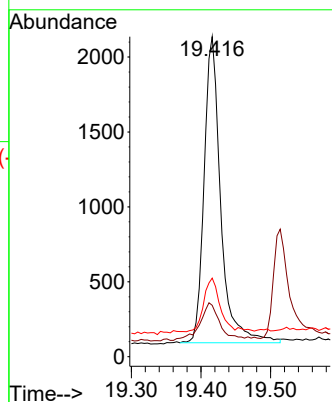
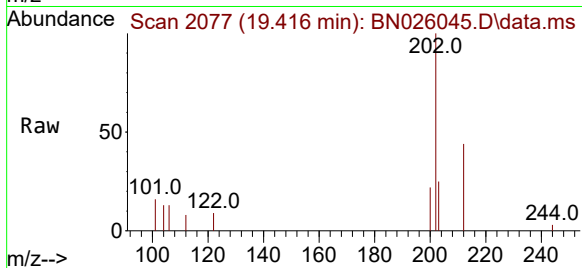
Tgt Ion:202 Resp: 3386

Ion Ratio Lower Upper

202 100

101 14.6 8.3 12.5#

203 17.2 13.5 20.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.542 min Scan# 2479

Delta R.T. 0.000 min

Lab File: BN026045.D

Acq: 27 Jun 2023 20:01

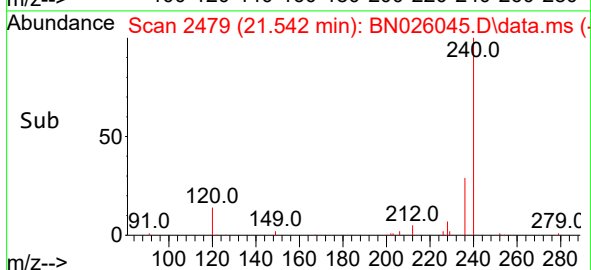
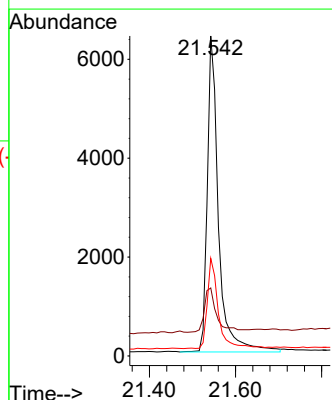
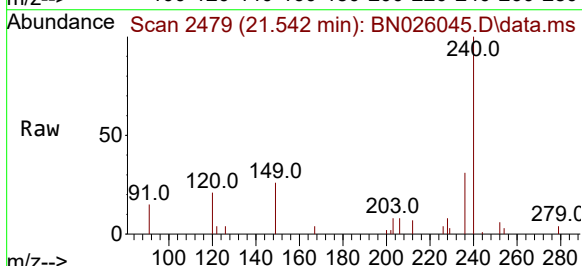
Tgt Ion:240 Resp: 11565

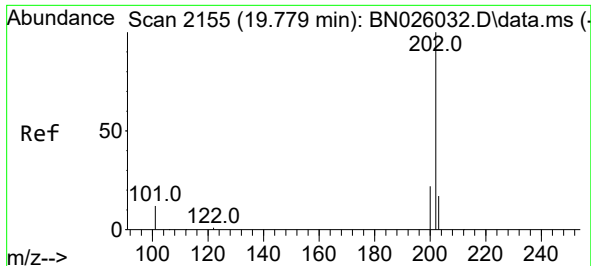
Ion Ratio Lower Upper

240 100

120 21.3 14.6 22.0

236 30.5 24.2 36.2

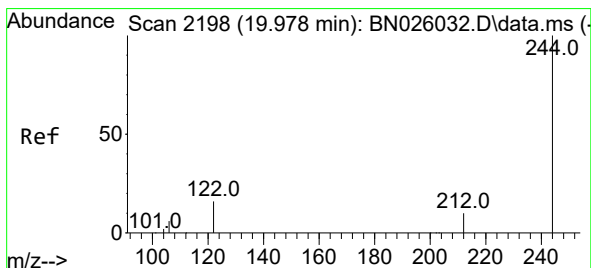
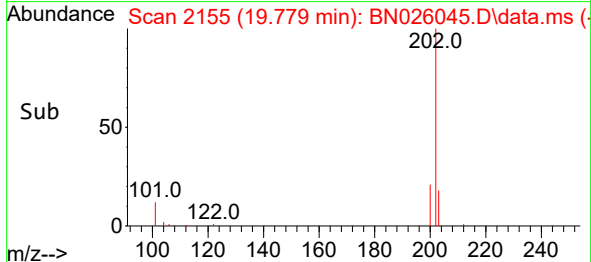
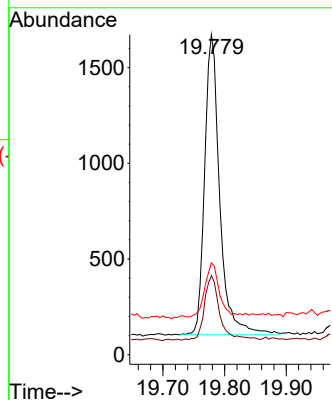
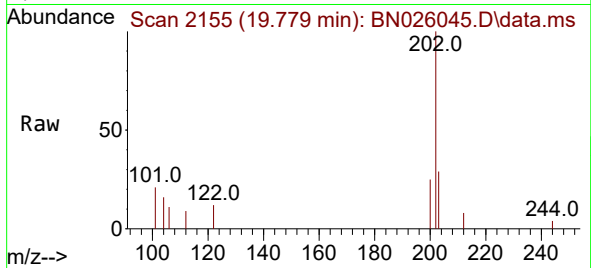




#30
Pyrene
Concen: 0.042 ng
RT: 19.779 min Scan# 2155
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

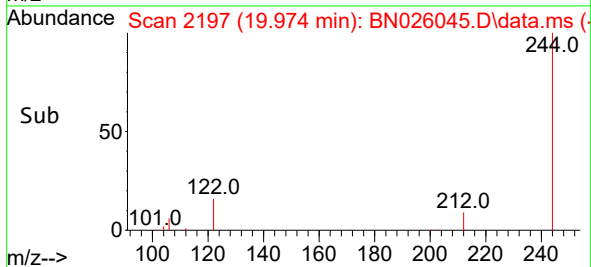
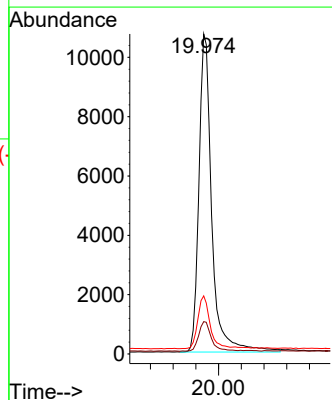
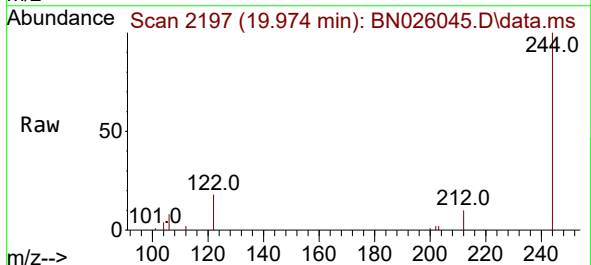
Instrument :
BNA_N
ClientSampleId :
TW-2

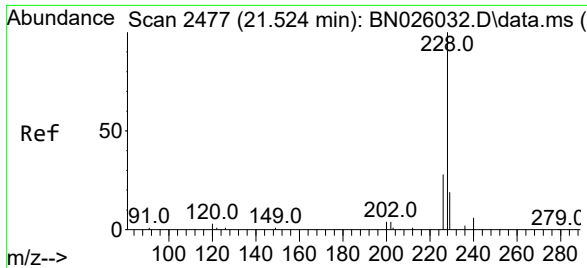
Tgt Ion:	202	Resp:	2661
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.0	25.4
203	17.4	14.2	21.4



#31
Terphenyl-d14
Concen: 0.568 ng
RT: 19.974 min Scan# 2197
Delta R.T. -0.005 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

Tgt Ion:	244	Resp:	16805
Ion Ratio	Lower	Upper	
244	100		
212	10.1	8.7	13.1
122	18.1	13.7	20.5

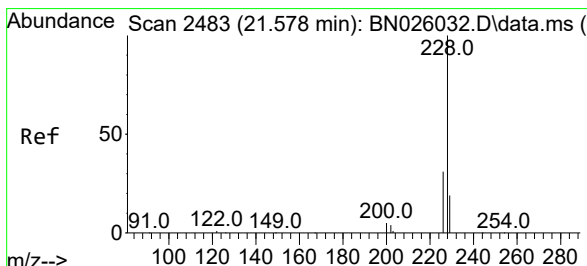
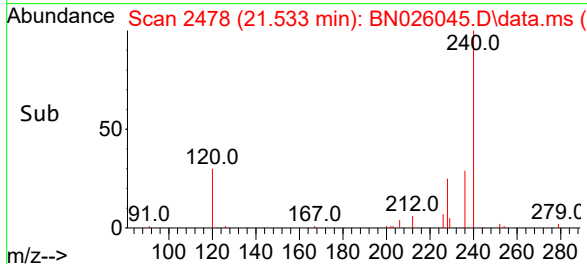
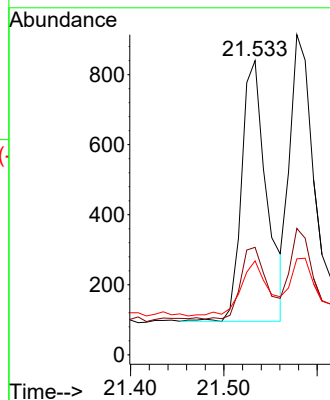
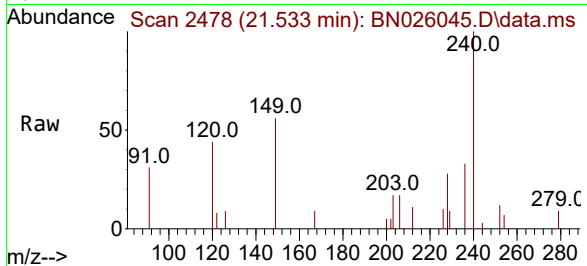




#32
Benzo(a)anthracene
Concen: 0.033 ng
RT: 21.533 min Scan# 2477
Delta R.T. 0.009 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

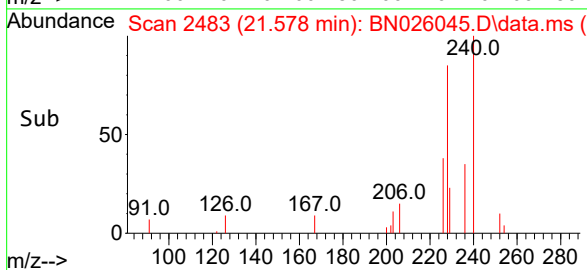
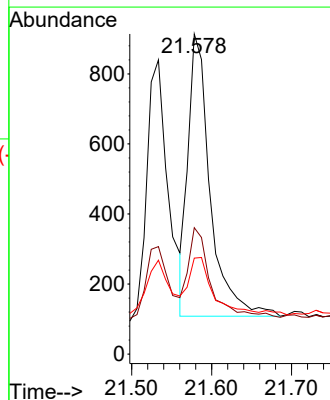
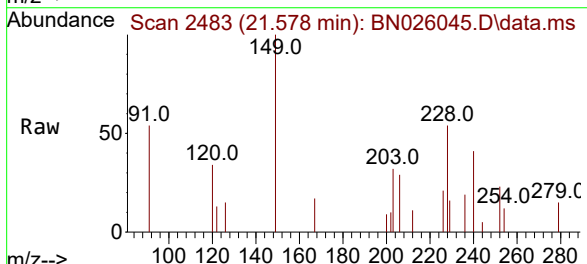
Instrument :
BNA_N
ClientSampleId :
TW-2

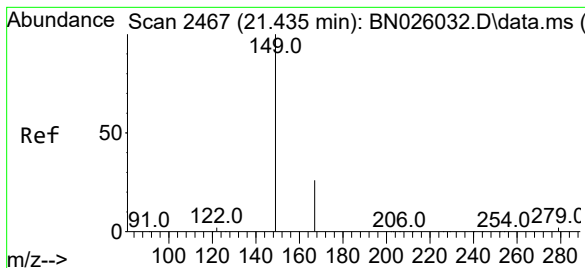
Tgt Ion:228 Resp: 1384
Ion Ratio Lower Upper
228 100
226 36.5 23.0 34.6#
229 31.9 15.9 23.9#



#33
Chrysene
Concen: 0.033 ng
RT: 21.578 min Scan# 2483
Delta R.T. 0.000 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

Tgt Ion:228 Resp: 1550
Ion Ratio Lower Upper
228 100
226 39.5 24.8 37.2#
229 30.0 15.6 23.4#

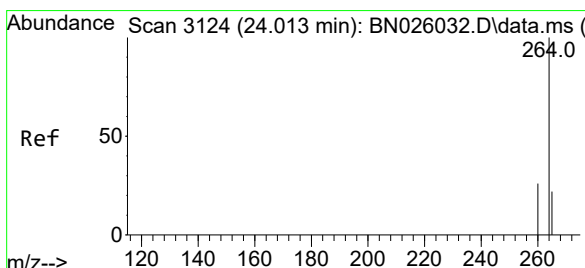
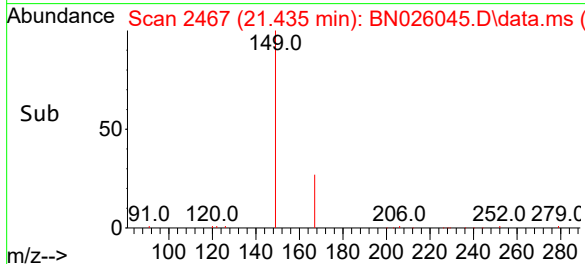
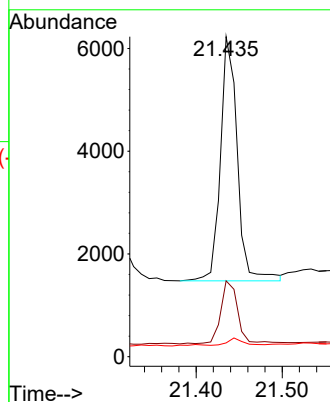
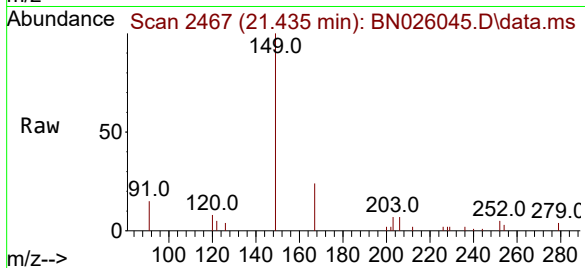




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.174 ng
 RT: 21.435 min Scan# 2467
 Delta R.T. 0.000 min
 Lab File: BN026045.D
 Acq: 27 Jun 2023 20:01

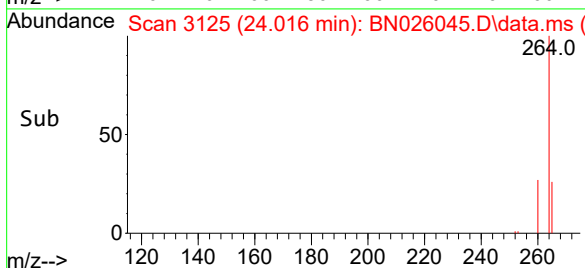
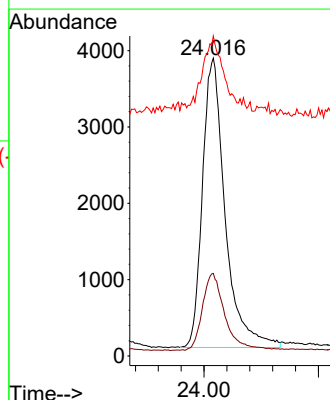
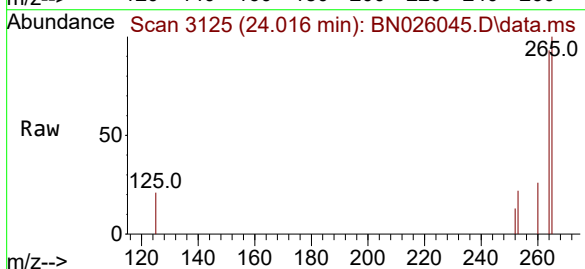
Instrument :
 BNA_N
 ClientSampleId :
 TW-2

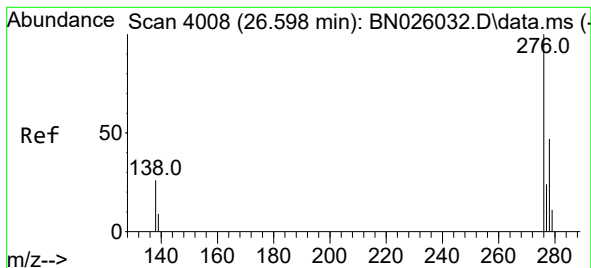
Tgt Ion:149 Resp: 6452
 Ion Ratio Lower Upper
 149 100
 167 26.2 20.2 30.4
 279 2.7 2.4 3.6



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.016 min Scan# 3125
 Delta R.T. 0.003 min
 Lab File: BN026045.D
 Acq: 27 Jun 2023 20:01

Tgt Ion:264 Resp: 10424
 Ion Ratio Lower Upper
 264 100
 260 27.7 21.9 32.9
 265 107.5 80.3 120.5





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.034 ng

RT: 26.610 min Scan# 4008

Delta R.T. 0.012 min

Lab File: BN026045.D

Acq: 27 Jun 2023 20:01

Instrument :

BNA_N

ClientSampleId :

TW-2

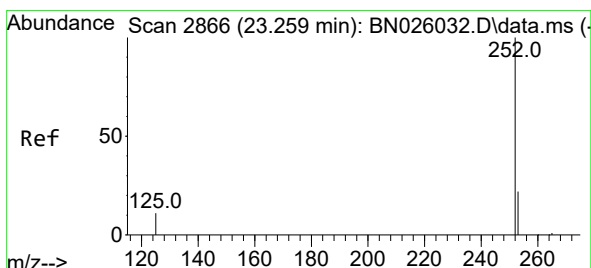
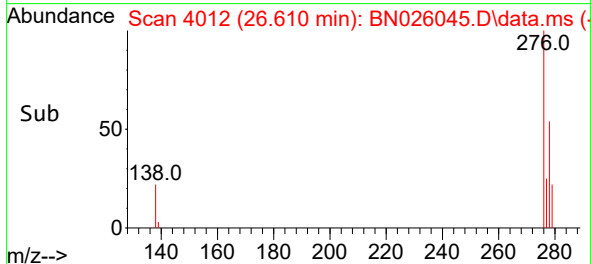
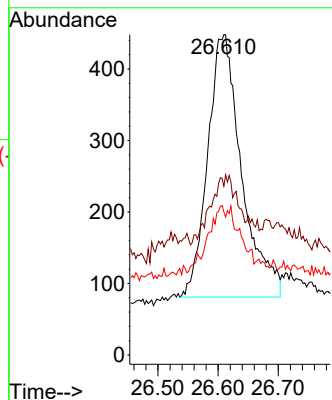
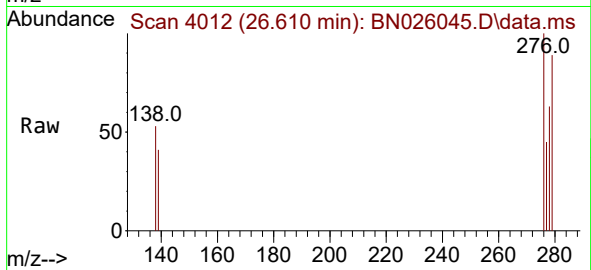
Tgt Ion:276 Resp: 1442

Ion Ratio Lower Upper

276 100

138 11.0 21.4 32.2#

277 12.8 19.6 29.4#



#37

Benzo(b)fluoranthene

Concen: 0.038 ng

RT: 23.262 min Scan# 2867

Delta R.T. 0.003 min

Lab File: BN026045.D

Acq: 27 Jun 2023 20:01

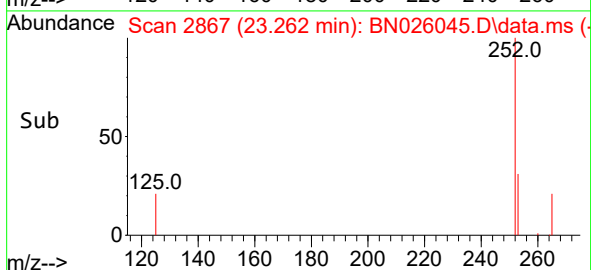
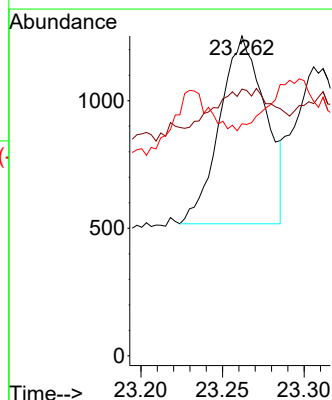
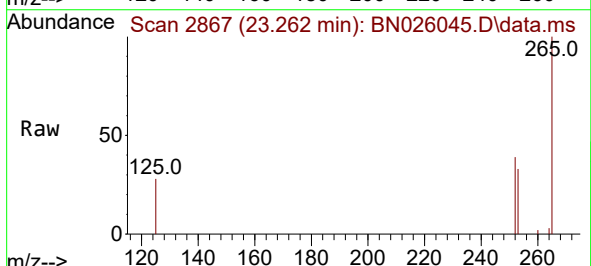
Tgt Ion:252 Resp: 1435

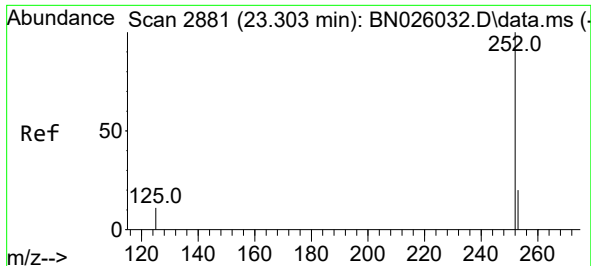
Ion Ratio Lower Upper

252 100

253 83.4 24.1 36.1#

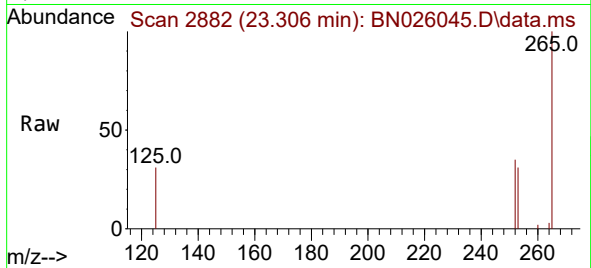
125 72.6 15.4 23.0#



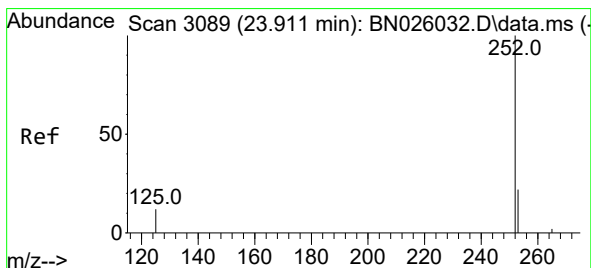
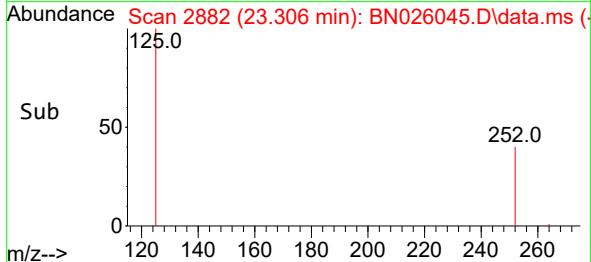
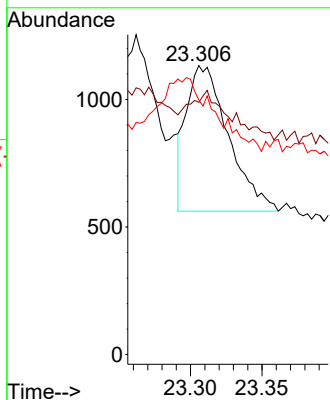


#38
Benzo(k)fluoranthene
Concen: 0.029 ng
RT: 23.306 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

Instrument :
BNA_N
ClientSampleId :
TW-2

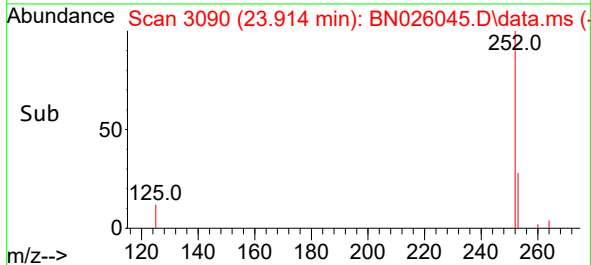
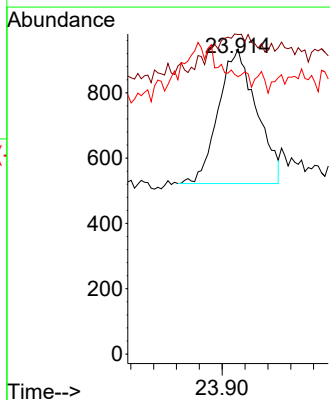
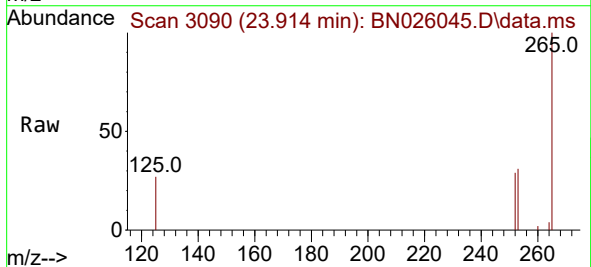


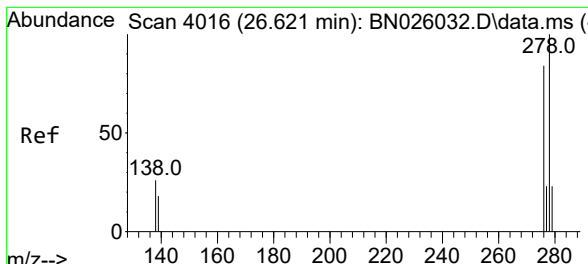
Tgt Ion:252 Resp: 1167
Ion Ratio Lower Upper
252 100
253 87.3 23.6 35.4#
125 88.1 15.8 23.8#



#39
Benzo(a)pyrene
Concen: 0.026 ng
RT: 23.914 min Scan# 3090
Delta R.T. 0.003 min
Lab File: BN026045.D
Acq: 27 Jun 2023 20:01

Tgt Ion:252 Resp: 955
Ion Ratio Lower Upper
252 100
253 104.7 26.2 39.4#
125 90.9 18.7 28.1#





#40

Dibenzo(a,h)anthracene

Concen: 0.029 ng

RT: 26.624 min Scan# 40

Delta R.T. 0.003 min

Lab File: BN026045.D

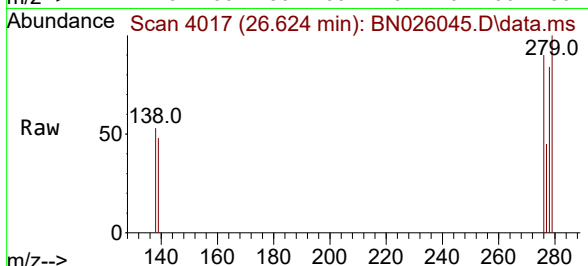
Acq: 27 Jun 2023 20:01

Instrument :

BNA_N

ClientSampleId :

TW-2



Tgt Ion:278 Resp: 981

Ion Ratio Lower Upper

278 100

139 57.5 18.1 27.1#

279 118.8 25.4 38.0#

