

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022425\
 Data File : BN036501.D
 Acq On : 24 Feb 2025 16:13
 Operator : RC/JU
 Sample : Q1402-01DL 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP100-20250219DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 02/25/2025
 Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 24 16:42:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.746	152	3817	0.400	ng	0.00
7) Naphthalene-d8	10.530	136	9950	0.400	ng	-0.01
13) Acenaphthene-d10	14.377	164	6752	0.400	ng	-0.01
19) Phenanthrene-d10	17.124	188	14788	0.400	ng	-0.01
29) Chrysene-d12	21.313	240	26601	0.400	ng	# 0.00
35) Perylene-d12	23.578	264	21200	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	484	0.054	ng	-0.01
5) Phenol-d6	6.923	99	754	0.071	ng	-0.01
8) Nitrobenzene-d5	8.896	82	787	0.080	ng	-0.01
11) 2-Methylnaphthalene-d10	12.141	152	1222	0.080	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	750	0.224	ng	0.00
15) 2-Fluorobiphenyl	13.019	172	2901	0.114	ng	0.00
27) Fluoranthene-d10	19.159	212	3560	0.087	ng	0.00
31) Terphenyl-d14	19.759	244	93200	1.641	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.261	88	5789	1.386	ng	99
20) 4,6-Dinitro-2-methylph...	15.522	198	176	0.061	ng	# 35
23) Atrazine	16.602	200	1306	0.177	ng	96
24) Pentachlorophenol	16.788	266	1090	0.211	ng	100
25) Phenanthrene	17.161	178	1461m	0.034	ng	
26) Anthracene	17.260	178	2566	0.068	ng	100
28) Fluoranthene	19.187	202	11011	0.210	ng	98
30) Pyrene	19.550	202	12112	0.118	ng	99
32) Benzo(a)anthracene	21.295	228	10402	0.119	ng	98
33) Chrysene	21.348	228	12311	0.130	ng	100
34) Bis(2-ethylhexyl)phtha...	21.232	149	9728	0.178	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.873	276	9820	0.133	ng	93
37) Benzo(b)fluoranthene	22.896	252	9785	0.140	ng	# 64
38) Benzo(k)fluoranthene	22.943	252	10607	0.148	ng	# 63
39) Benzo(a)pyrene	23.481	252	6675	0.110	ng	# 44
40) Dibenzo(a,h)anthracene	25.890	278	7504	0.128	ng	# 80
41) Benzo(g,h,i)perylene	26.571	276	7909	0.119	ng	# 90

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

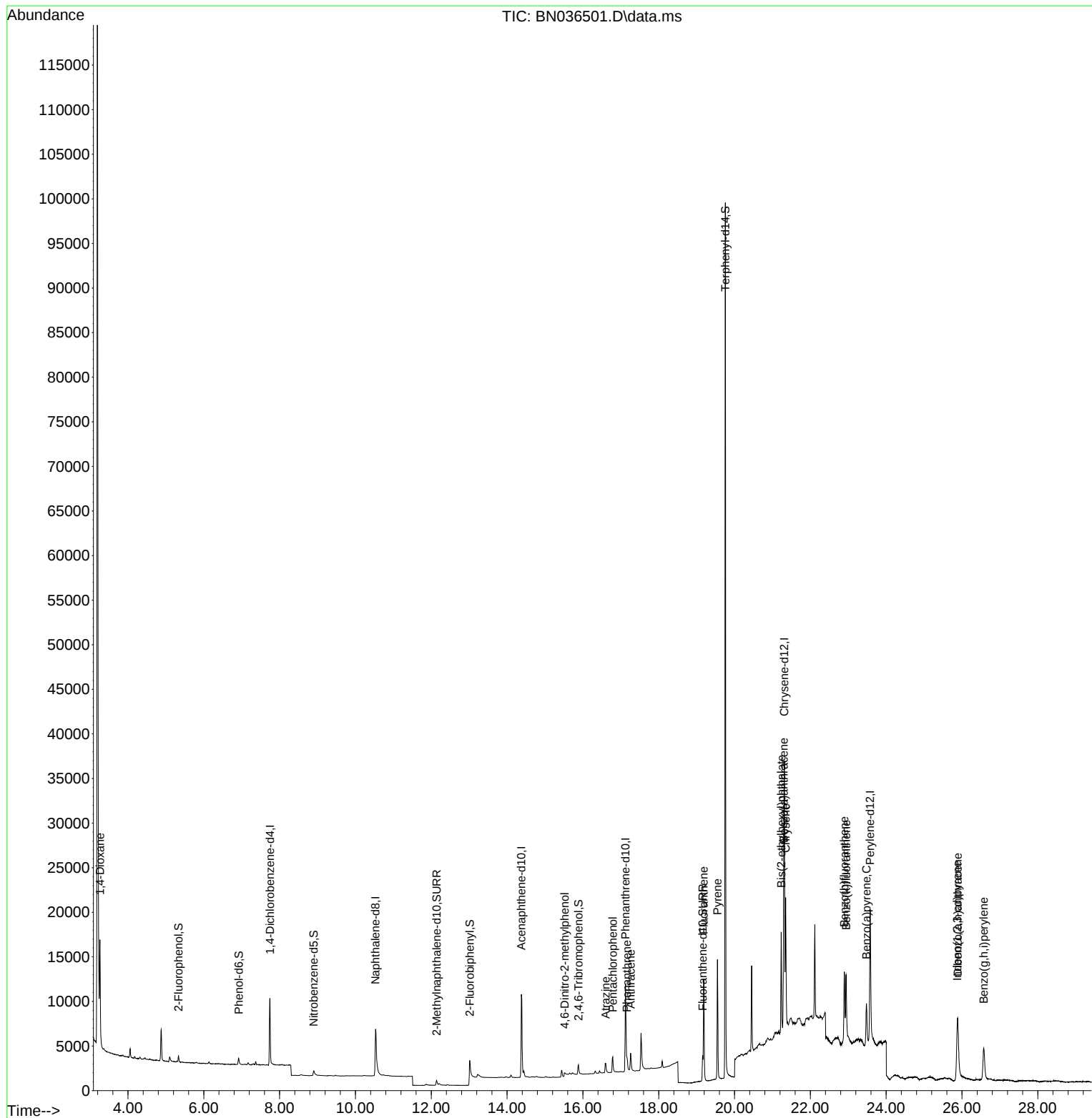
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022425\
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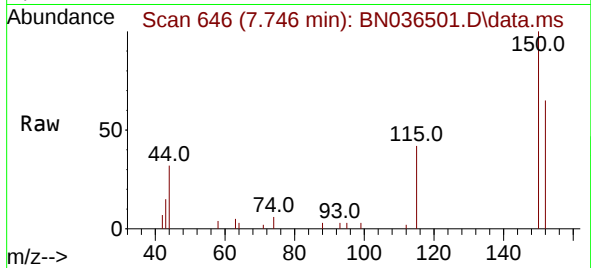
Reviewed By :Rahul Chavli 02/25/2025
Supervised By :mohammad ahmed 02/28/2025





#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.746 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN036501.D
 Acq: 24 Feb 2025 16:13

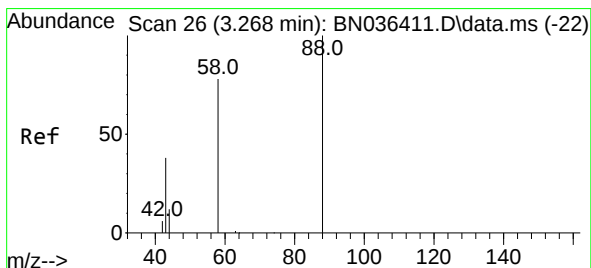
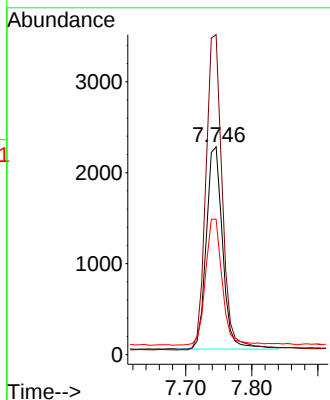
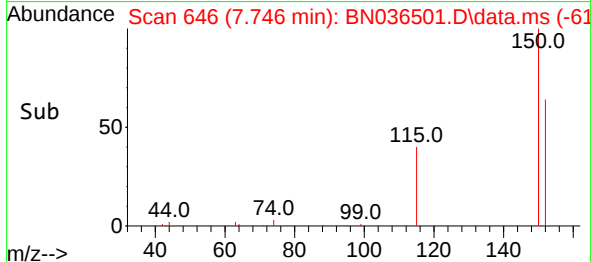
Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP100-20250219DL



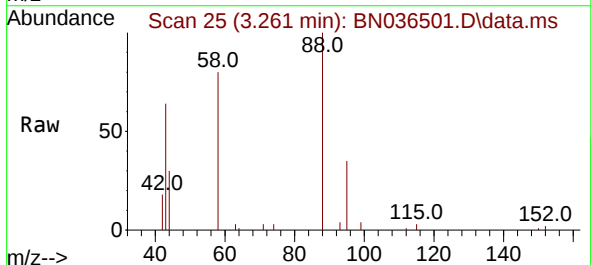
Tgt Ion: 152 Resp: 381
 Ion Ratio Lower Upper
 152 100
 150 154.0 123.7 185.5
 115 65.2 52.5 78.7

Manual Integrations
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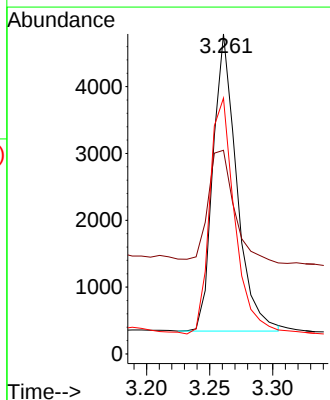
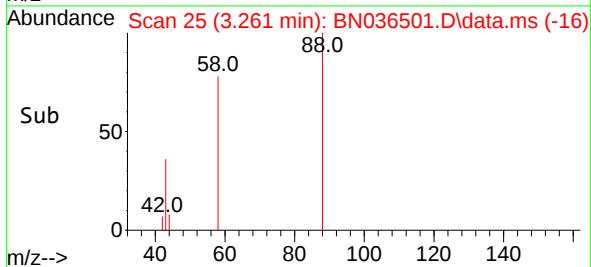
Reviewed By :Rahul Chavli 02/25/2025
 Supervised By :mohammad ahmed 02/28/2025

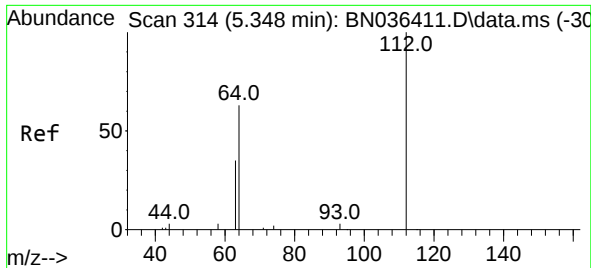


#2
 1,4-Dioxane
 Concen: 1.386 ng
 RT: 3.261 min Scan# 25
 Delta R.T. -0.007 min
 Lab File: BN036501.D
 Acq: 24 Feb 2025 16:13



Tgt Ion: 88 Resp: 5789
 Ion Ratio Lower Upper
 88 100
 43 42.1 33.7 50.5
 58 84.4 68.9 103.3





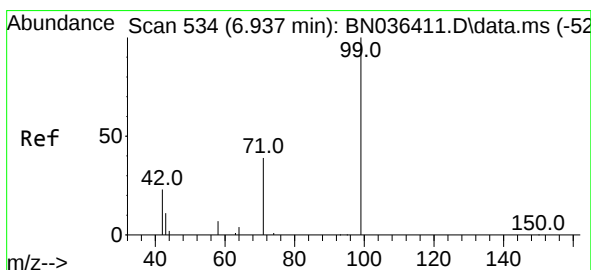
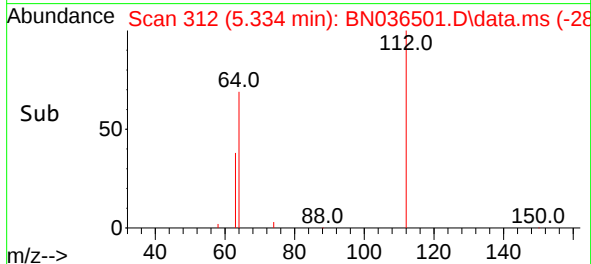
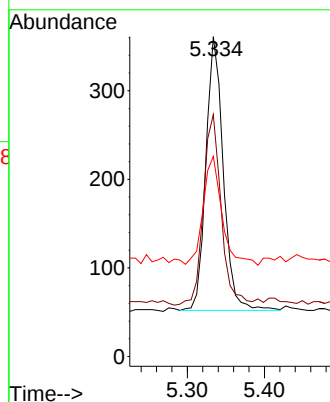
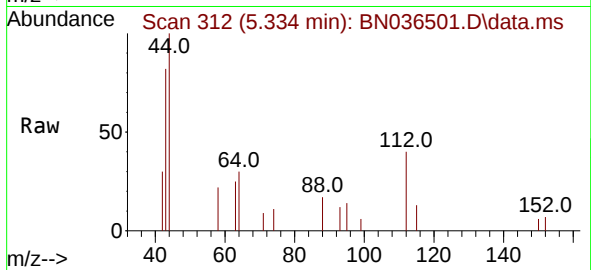
#4
2-Fluorophenol
Concen: 0.054 ng
RT: 5.334 min Scan# 314
Delta R.T. -0.015 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250219DL

Tgt Ion: 112 Resp: 484
Ion Ratio Lower Upper
112 100
64 71.1 53.4 80.0
63 42.8 30.3 45.5

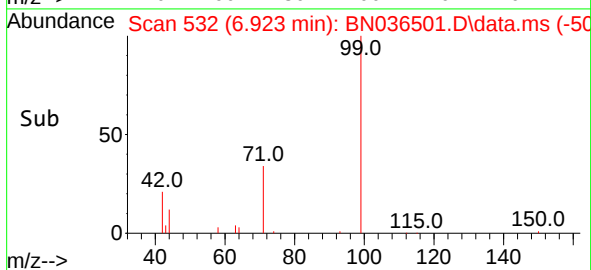
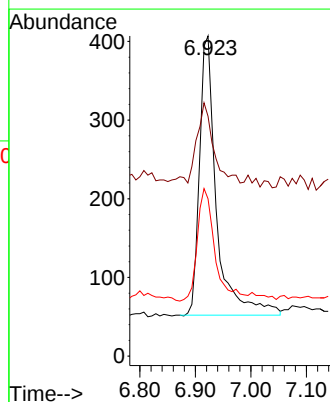
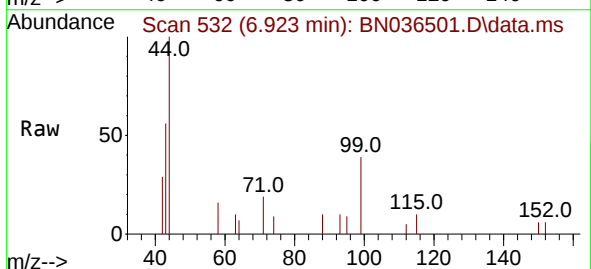
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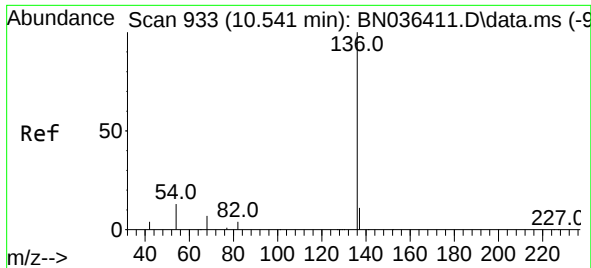
Reviewed By :Rahul Chavli 02/25/2025
Supervised By :mohammad ahmed 02/28/2025



#5
Phenol-d6
Concen: 0.071 ng
RT: 6.923 min Scan# 532
Delta R.T. -0.015 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

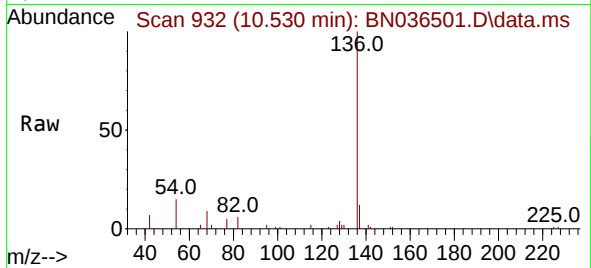
Tgt Ion: 99 Resp: 754
Ion Ratio Lower Upper
99 100
42 30.9 21.7 32.5
71 41.8 32.6 49.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

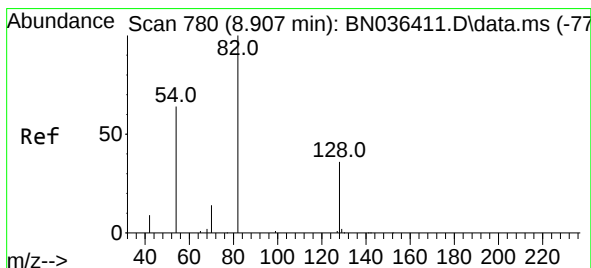
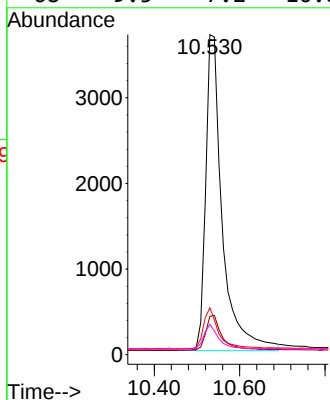
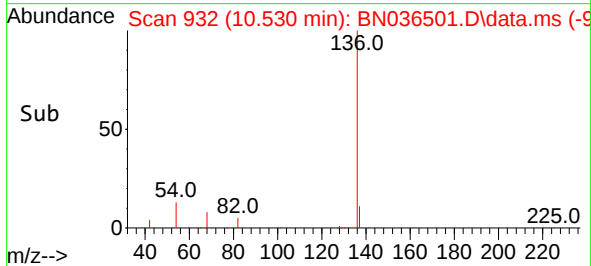
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250219DL



Tgt Ion:136 Resp: 9950
Ion Ratio Lower Upper
136 100
137 12.0 10.1 15.1
54 14.6 11.8 17.6
68 9.5 7.2 10.8

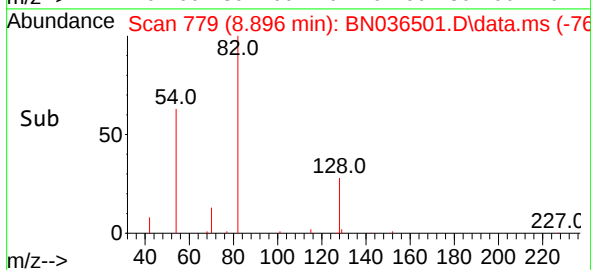
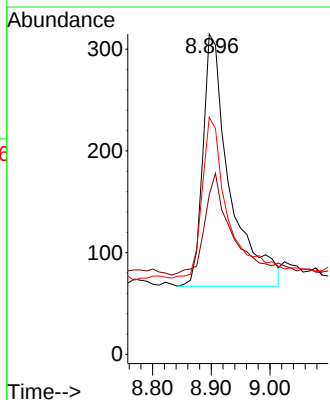
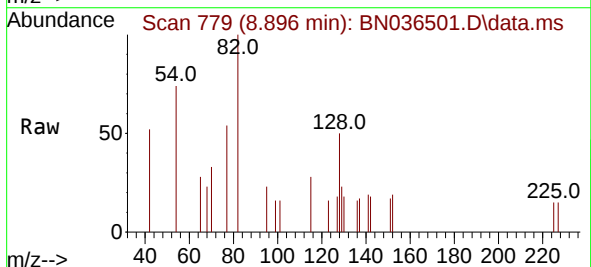
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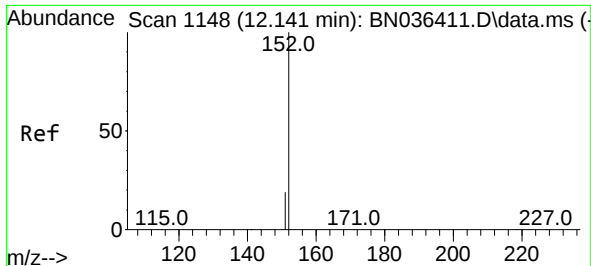
Reviewed By :Rahul Chavli 02/25/2025
Supervised By :mohammad ahmed 02/28/2025



#8
Nitrobenzene-d5
Concen: 0.080 ng
RT: 8.896 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

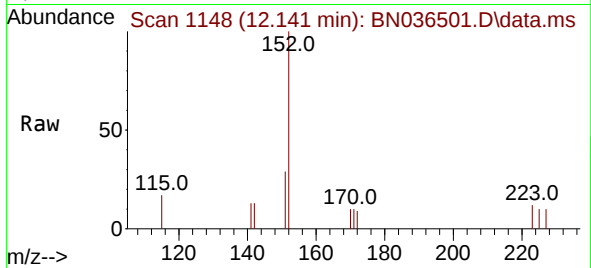
Tgt Ion: 82 Resp: 787
Ion Ratio Lower Upper
82 100
128 49.8 31.9 47.9#
54 74.0 53.1 79.7





#11
2-Methylnaphthalene-d10
Concen: 0.080 ng
RT: 12.141 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

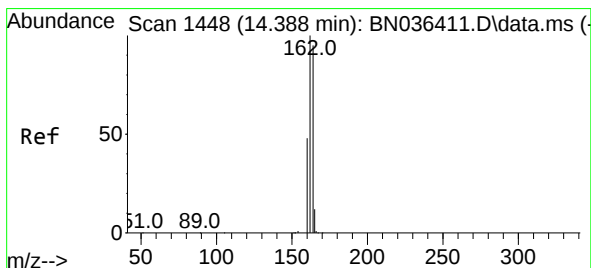
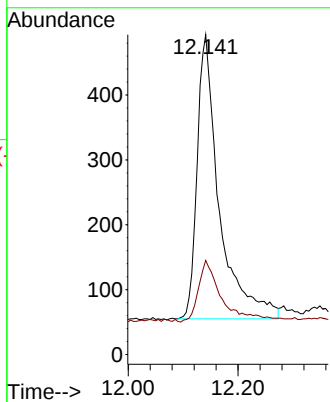
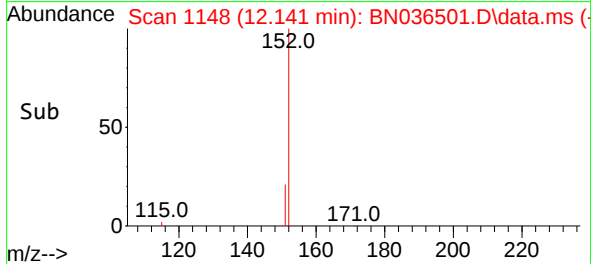
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250219DL



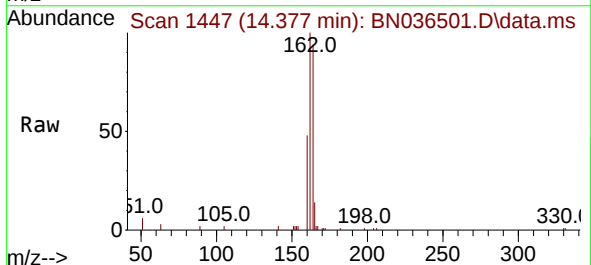
Tgt Ion:152 Resp: 122
Ion Ratio Lower Upper
152 100
151 23.7 16.6 25.0

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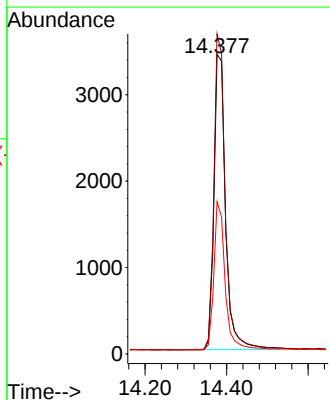
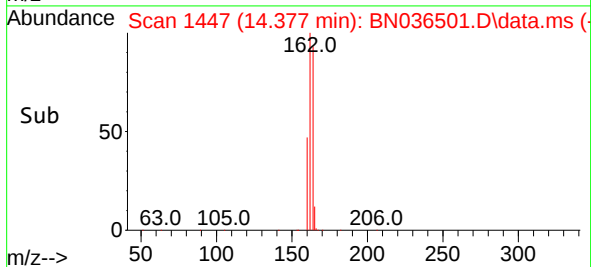
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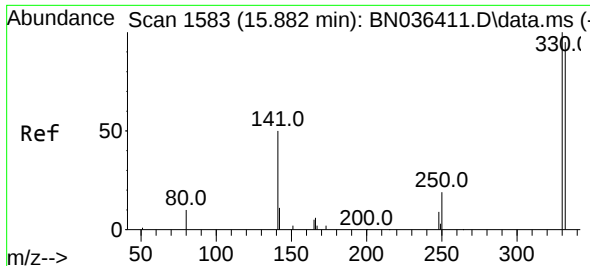


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1447
Delta R.T. -0.011 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13



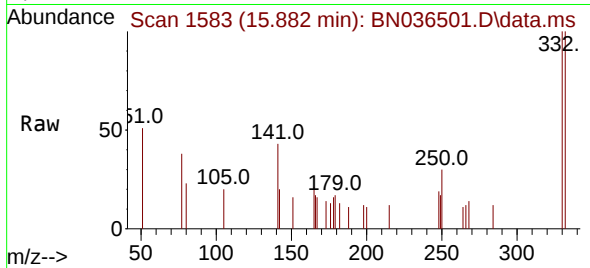
Tgt Ion:164 Resp: 6752
Ion Ratio Lower Upper
164 100
162 106.8 84.1 126.1
160 50.8 41.4 62.0





#14
2,4,6-Tribromophenol
Concen: 0.224 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

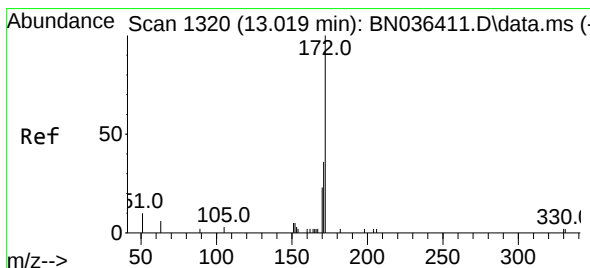
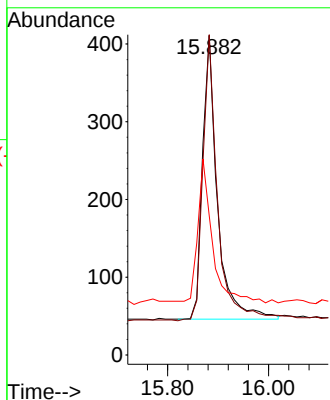
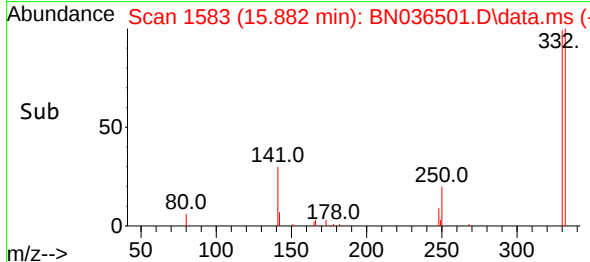
Instrument :
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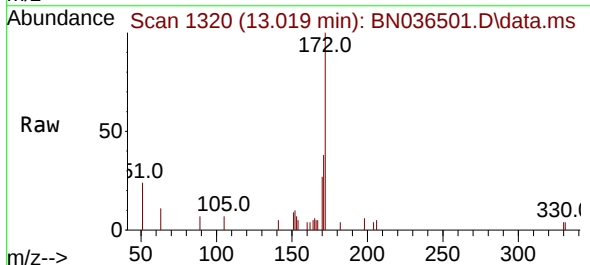
Tgt Ion:330 Resp: 750
Ion Ratio Lower Upper
330 100
332 99.1 76.6 114.8
141 50.7 37.8 56.8

Manual Integrations
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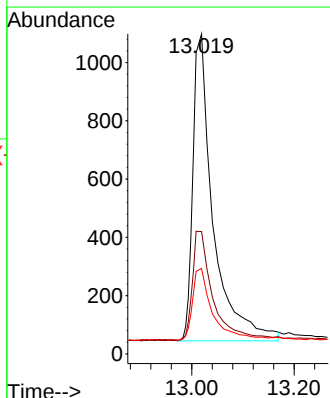
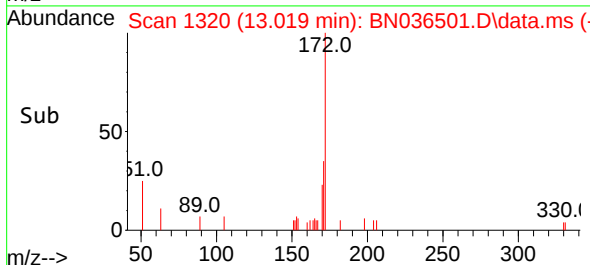
Reviewed By :Rahul Chavli 02/25/2025
Supervised By :mohammad ahmed 02/28/2025

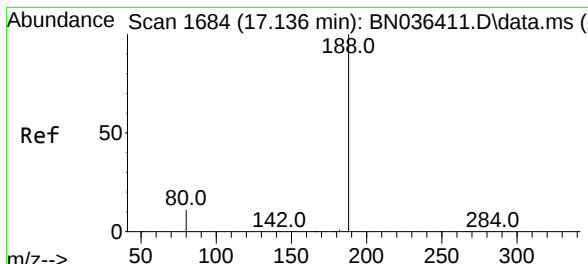


#15
2-Fluorobiphenyl
Concen: 0.114 ng
RT: 13.019 min Scan# 1320
Delta R.T. -0.000 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13



Tgt Ion:172 Resp: 2901
Ion Ratio Lower Upper
172 100
171 38.3 29.6 44.4
170 26.7 19.8 29.6





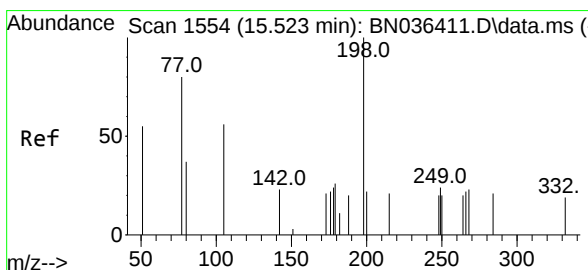
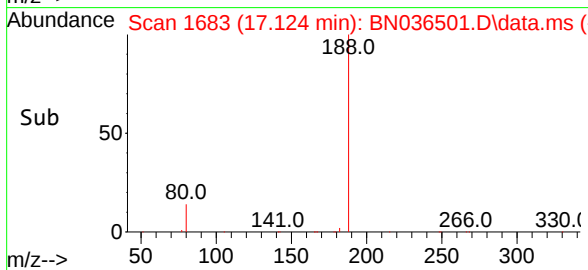
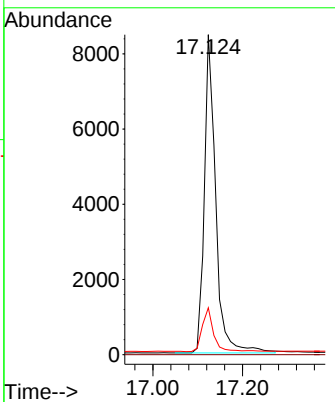
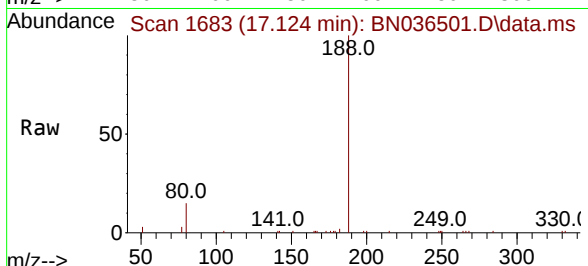
#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.124 min Scan# 11
 Delta R.T. -0.013 min
 Lab File: BN036501.D
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Tgt Ion:	188	Resp:	1478
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.6	9.8	14.6

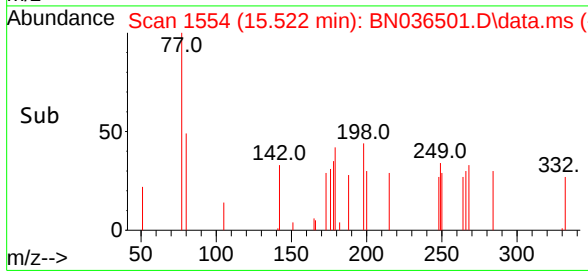
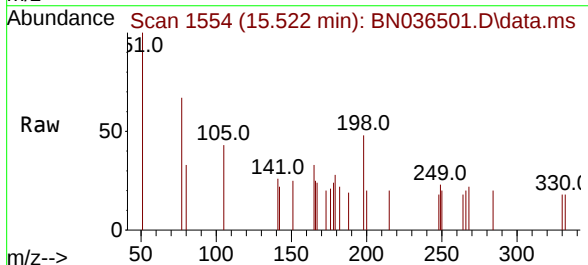
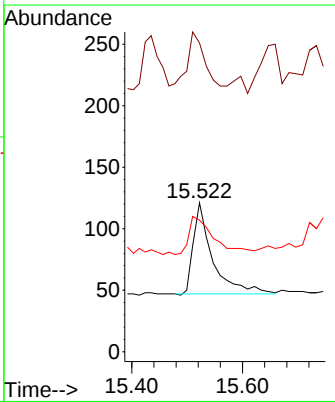
Manual Integrations
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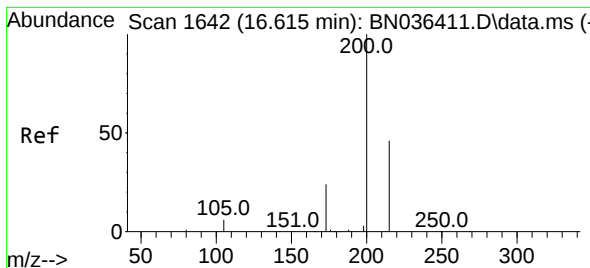
Reviewed By :Rahul Chavli 02/25/2025
 Supervised By :mohammad ahmed 02/28/2025



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.061 ng
 RT: 15.522 min Scan# 1554
 Delta R.T. -0.001 min
 Lab File: BN036501.D
 Acq: 24 Feb 2025 16:13

Tgt Ion:	198	Resp:	176
Ion Ratio	Lower	Upper	
198	100		
51	207.4	86.6	129.8#
105	88.4	57.5	86.3#





#23

Atrazine

Concen: 0.177 ng

RT: 16.602 min Scan# 1641

Delta R.T. -0.013 min

Lab File: BN036501.D

Acq: 24 Feb 2025 16:13

Instrument :

BNA_N

ClientSampleId :

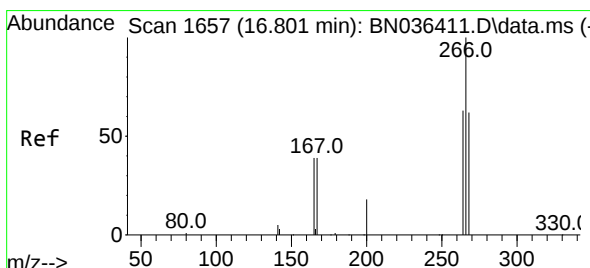
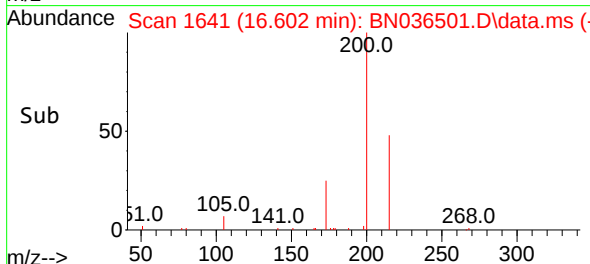
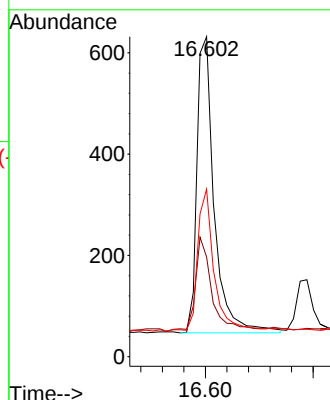
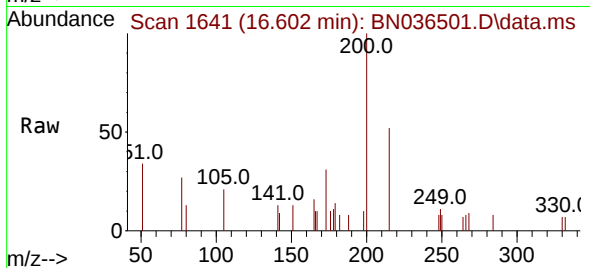
RW5-SP100-20250219DL

Tgt Ion:200 Resp: 1300
 Ion Ratio Lower Upper
 200 100
 173 31.2 23.2 34.8
 215 52.4 40.0 60.0

Manual Integrations

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Reviewed By :Rahul Chavli 02/25/2025
 Supervised By :mohammad ahmed 02/28/2025



#24

Pentachlorophenol

Concen: 0.211 ng

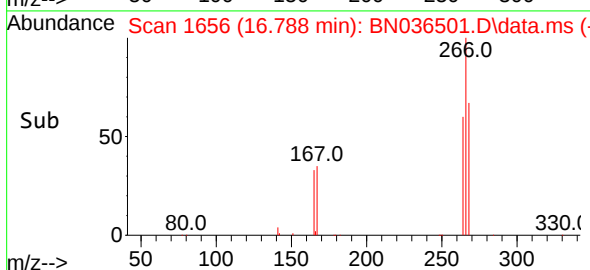
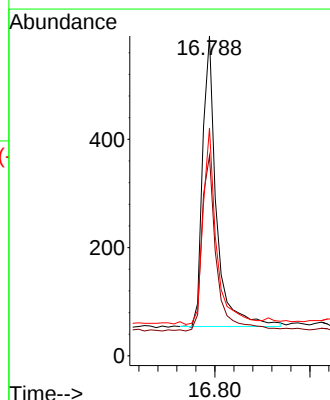
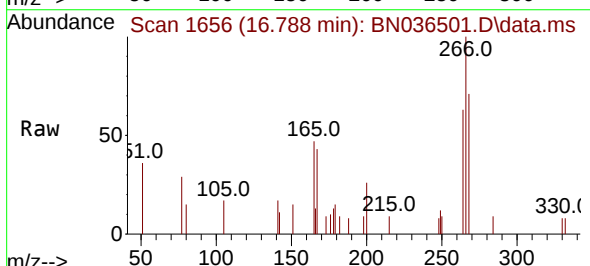
RT: 16.788 min Scan# 1656

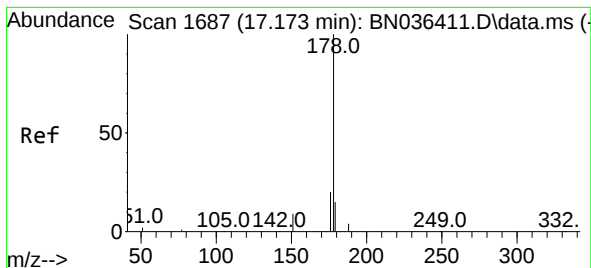
Delta R.T. -0.013 min

Lab File: BN036501.D

Acq: 24 Feb 2025 16:13

Tgt Ion:266 Resp: 1090
 Ion Ratio Lower Upper
 266 100
 264 63.4 50.6 76.0
 268 64.9 51.9 77.9





#25

Phenanthrene

Concen: 0.034 ng m

RT: 17.161 min Scan# 1686

Delta R.T. -0.013 min

Lab File: BN036501.D

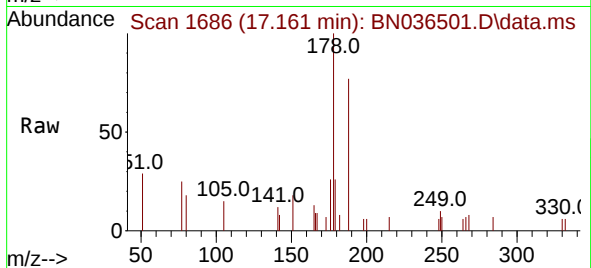
Acq: 24 Feb 2025 16:13

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-20250219DL



Tgt Ion:178 Resp: 146

Ion Ratio Lower Upper

178 100

176 29.8 15.7 23.5

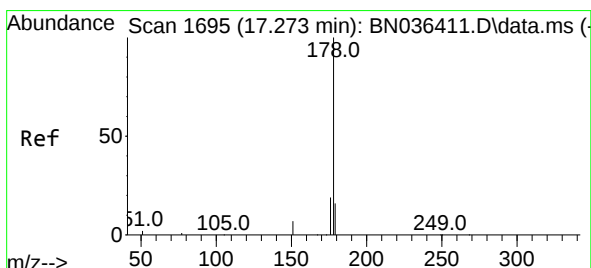
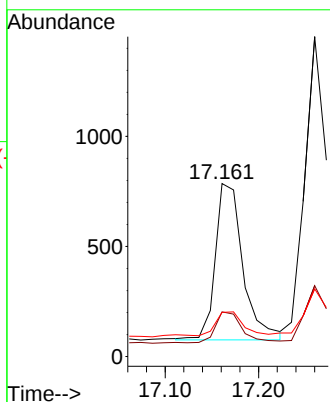
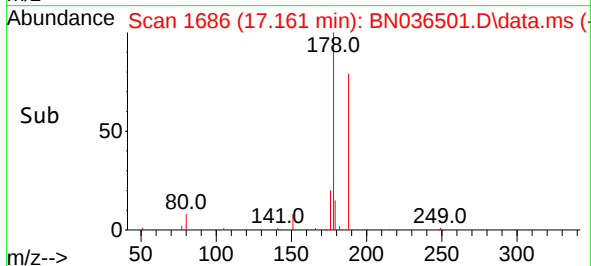
179 24.9 12.4 18.6

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Reviewed By :Rahul Chavli 02/25/2025

Supervised By :mohammad ahmed 02/28/2025



#26

Anthracene

Concen: 0.068 ng

RT: 17.260 min Scan# 1694

Delta R.T. -0.013 min

Lab File: BN036501.D

Acq: 24 Feb 2025 16:13

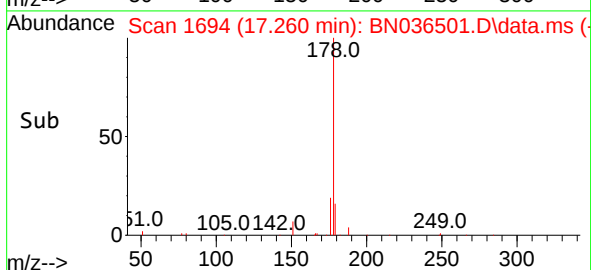
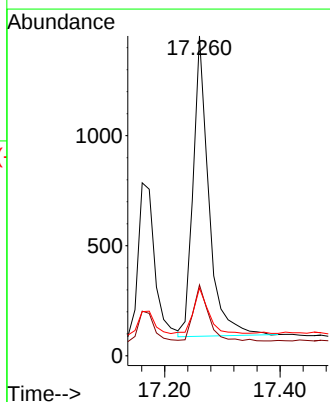
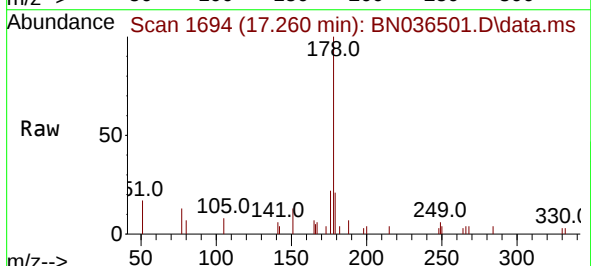
Tgt Ion:178 Resp: 2566

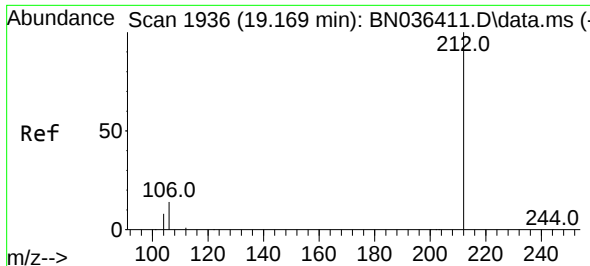
Ion Ratio Lower Upper

178 100

176 18.7 14.9 22.3

179 15.3 12.4 18.6





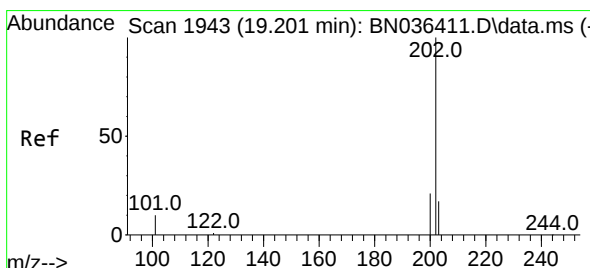
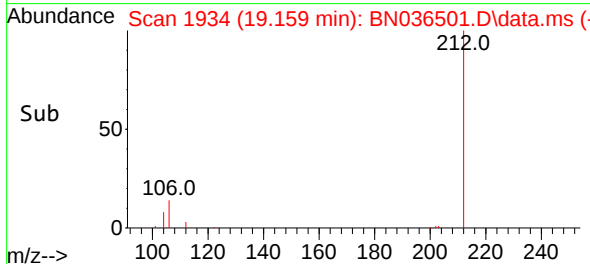
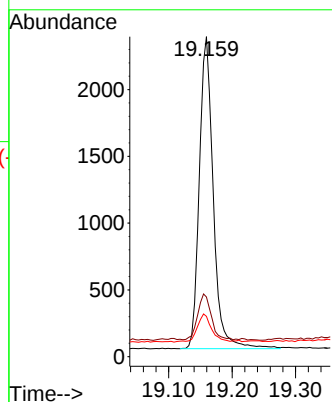
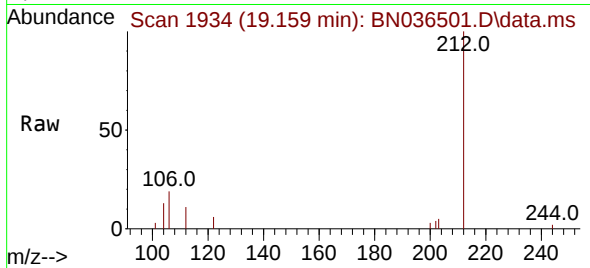
#27
Fluoranthene-d10
Concen: 0.087 ng
RT: 19.159 min Scan# 1934
Delta R.T. -0.009 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250219DL

Tgt Ion:212 Resp: 3560
Ion Ratio Lower Upper
212 100
106 14.6 11.5 17.3
104 9.2 7.1 10.7

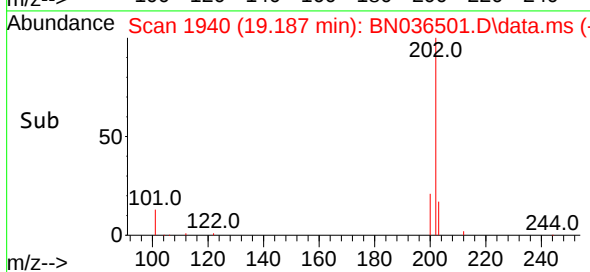
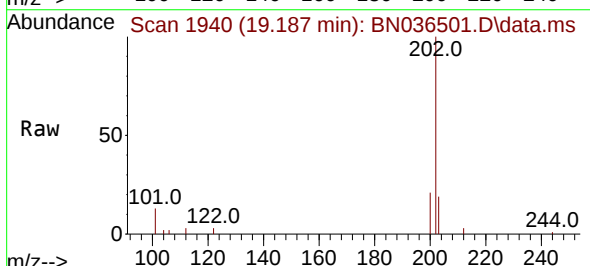
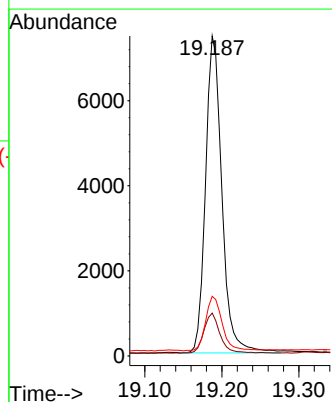
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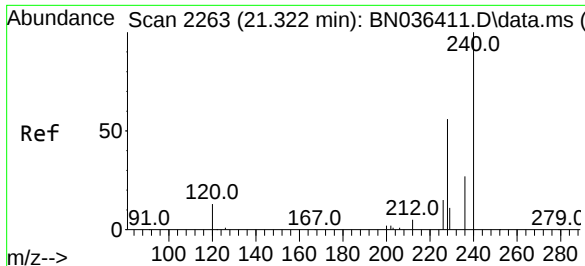
Reviewed By :Rahul Chavli 02/25/2025
Supervised By :mohammad ahmed 02/28/2025



#28
Fluoranthene
Concen: 0.210 ng
RT: 19.187 min Scan# 1940
Delta R.T. -0.014 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

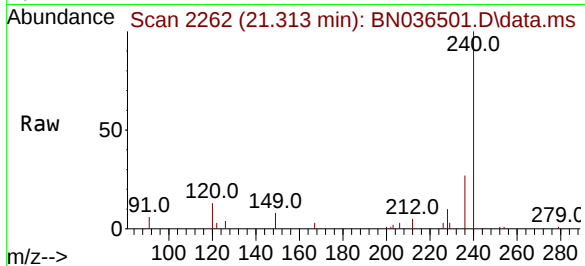
Tgt Ion:202 Resp: 11011
Ion Ratio Lower Upper
202 100
101 12.5 9.2 13.8
203 17.4 13.4 20.0





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.313 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

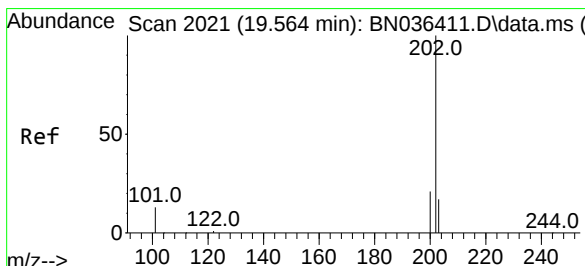
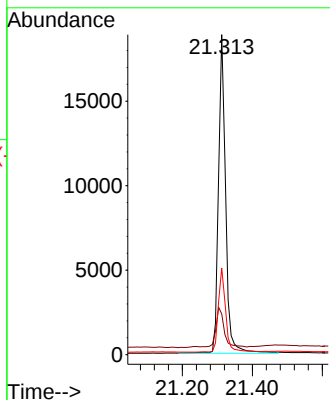
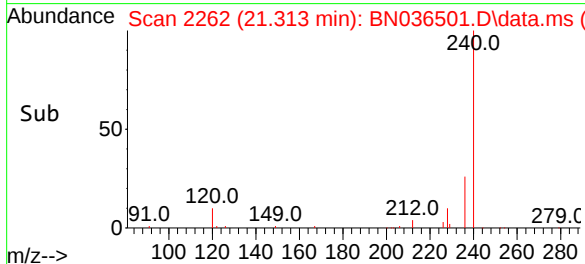
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250219DL



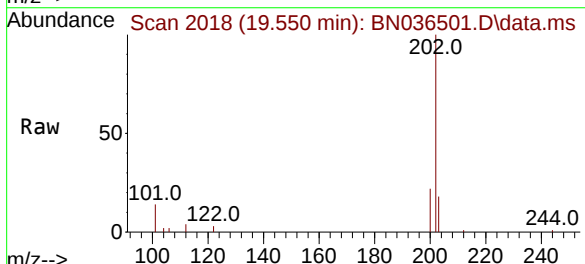
Tgt Ion:240 Resp: 2660
Ion Ratio Lower Upper
240 100
120 12.7 13.3 19.9
236 27.1 23.0 34.6

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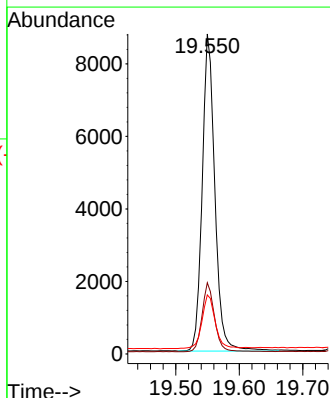
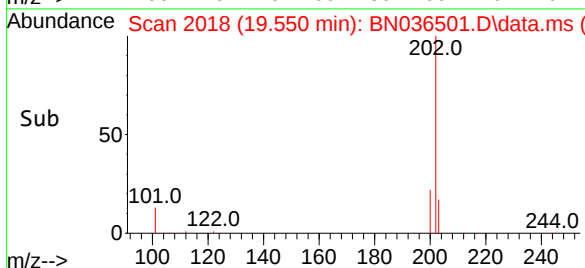
Reviewed By :Rahul Chavli 02/25/2025
Supervised By :mohammad ahmed 02/28/2025

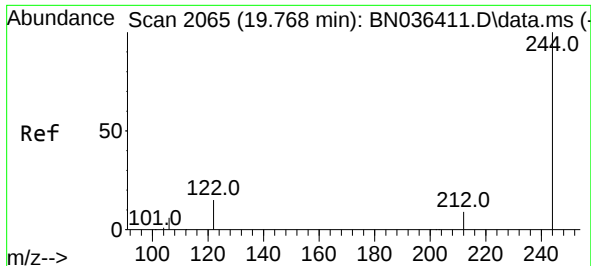


#30
Pyrene
Concen: 0.118 ng
RT: 19.550 min Scan# 2018
Delta R.T. -0.014 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13



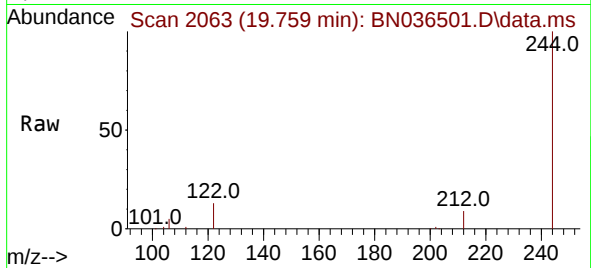
Tgt Ion:202 Resp: 12112
Ion Ratio Lower Upper
202 100
200 21.4 16.9 25.3
203 17.6 13.9 20.9





#31
 Terphenyl-d14
 Concen: 1.641 ng
 RT: 19.759 min Scan# 2063
 Delta R.T. -0.009 min
 Lab File: BN036501.D
 Acq: 24 Feb 2025 16:13

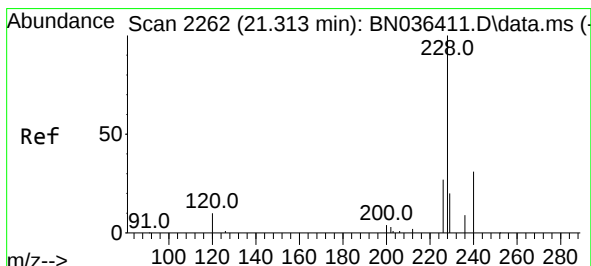
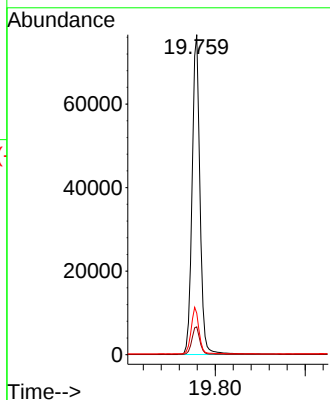
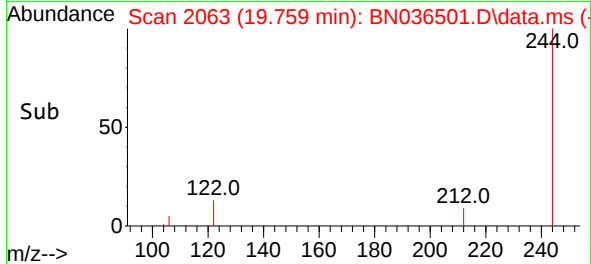
Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP100-20250219DL



Tgt Ion:244 Resp: 93200
 Ion Ratio Lower Upper
 244 100
 212 8.7 8.1 12.1
 122 13.0 12.8 19.2

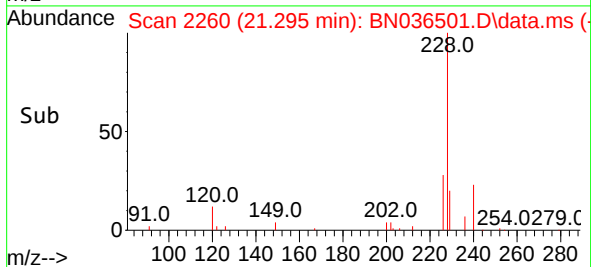
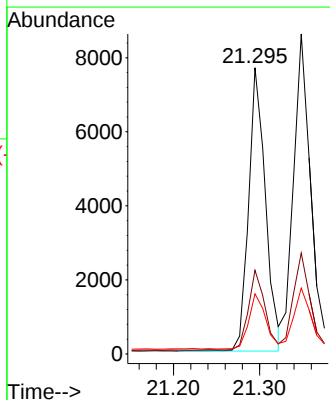
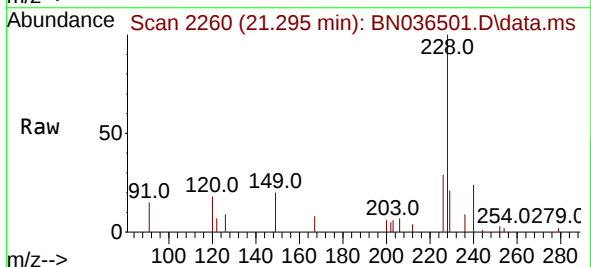
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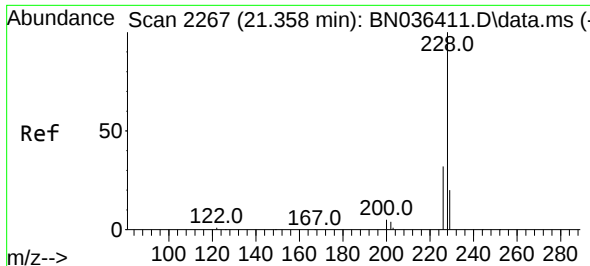
Reviewed By :Rahul Chavli 02/25/2025
 Supervised By :mohammad ahmed 02/28/2025



#32
 Benzo(a)anthracene
 Concen: 0.119 ng
 RT: 21.295 min Scan# 2260
 Delta R.T. -0.018 min
 Lab File: BN036501.D
 Acq: 24 Feb 2025 16:13

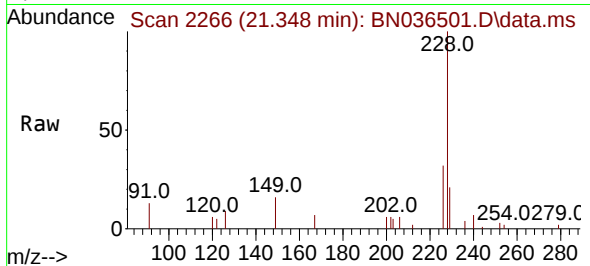
Tgt Ion:228 Resp: 10402
 Ion Ratio Lower Upper
 228 100
 226 29.3 22.2 33.2
 229 21.0 16.5 24.7





#33
Chrysene
Concen: 0.130 ng
RT: 21.348 min Scan# 2131
Delta R.T. -0.009 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

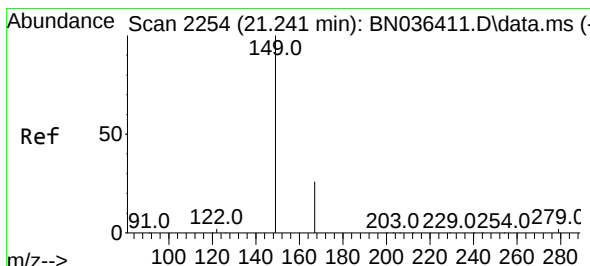
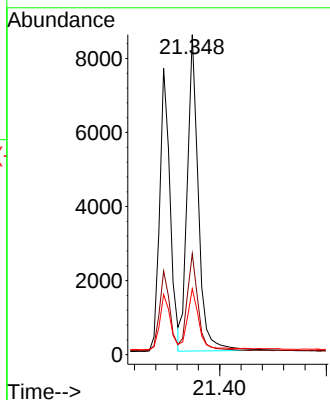
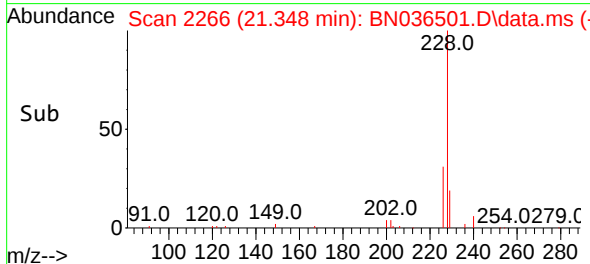
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250219DL



Tgt Ion:228 Resp: 1231
Ion Ratio Lower Upper
228 100
226 31.6 25.5 38.3
229 20.6 16.4 24.6

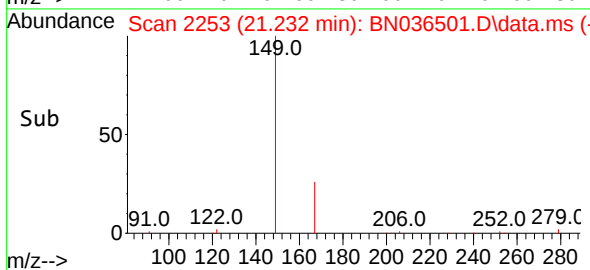
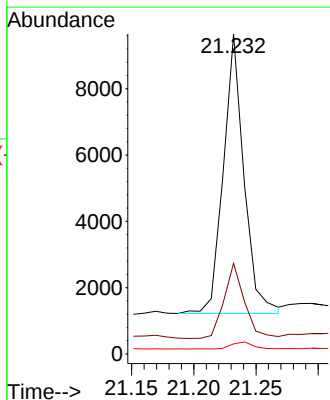
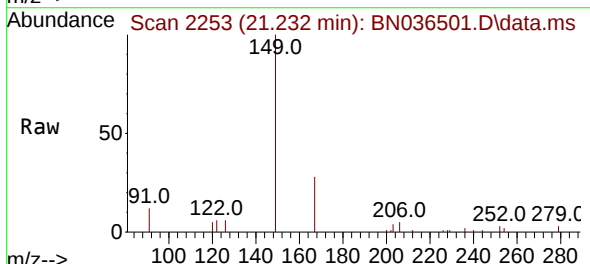
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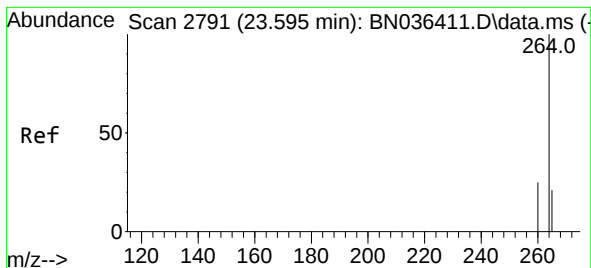
Reviewed By :Rahul Chavli 02/25/2025
Supervised By :mohammad ahmed 02/28/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.178 ng
RT: 21.232 min Scan# 2253
Delta R.T. -0.009 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

Tgt Ion:149 Resp: 9728
Ion Ratio Lower Upper
149 100
167 26.7 21.2 31.8
279 2.6 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.578 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036501.D

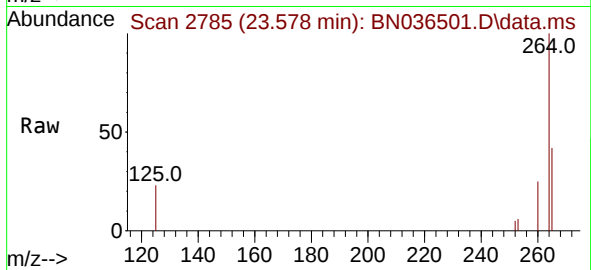
Acq: 24 Feb 2025 16:13

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-20250219DL



Tgt Ion:264 Resp: 21200

Ion Ratio Lower Upper

264 100

260 25.0 20.9 31.3

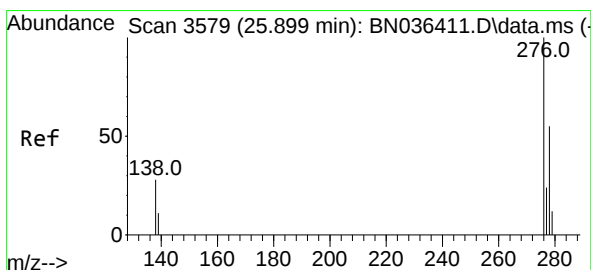
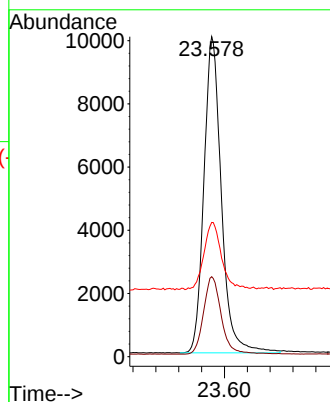
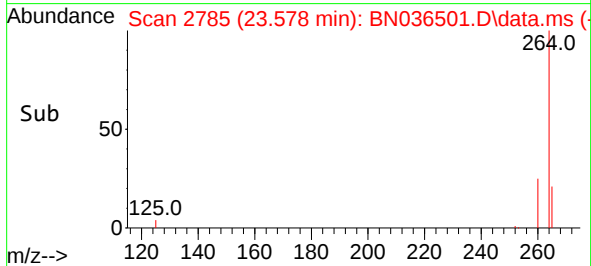
265 41.9 60.7 91.1

Manual Integrations

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Reviewed By :Rahul Chavli 02/25/2025

Supervised By :mohammad ahmed 02/28/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.133 ng

RT: 25.873 min Scan# 3570

Delta R.T. -0.026 min

Lab File: BN036501.D

Acq: 24 Feb 2025 16:13

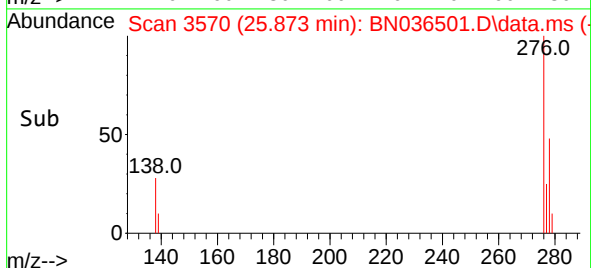
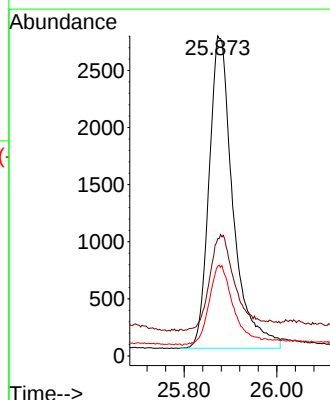
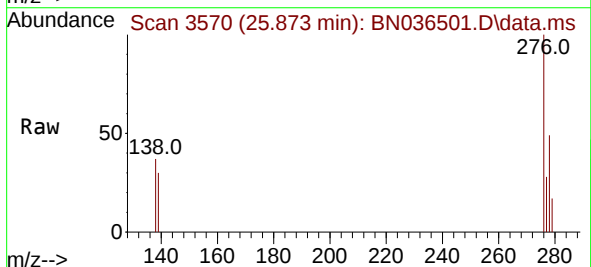
Tgt Ion:276 Resp: 9820

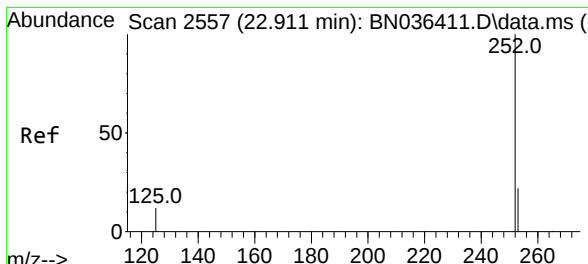
Ion Ratio Lower Upper

276 100

138 33.0 22.2 33.2

277 26.3 19.8 29.6





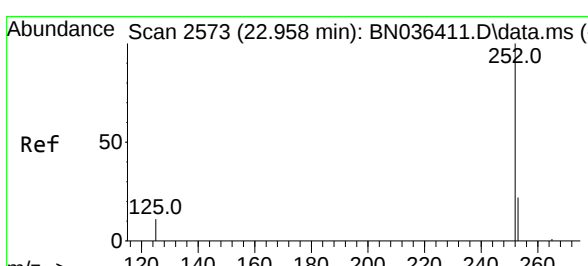
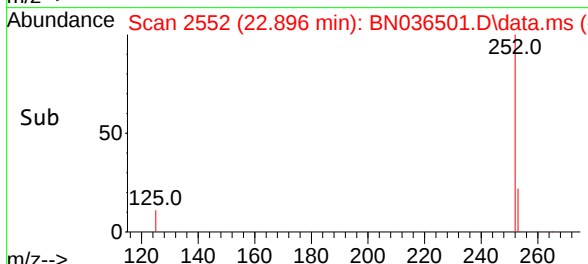
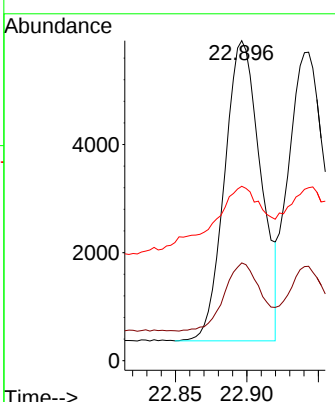
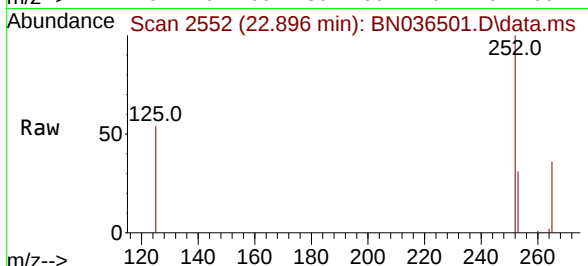
#37
 Benzo(b)fluoranthene
 Concen: 0.140 ng
 RT: 22.896 min Scan# 2552
 Delta R.T. -0.015 min
 Lab File: BN036501.D
 Acq: 24 Feb 2025 16:13

Instrument : BNA_N
 ClientSampleId : RW5-SP100-20250219DL

Tgt Ion:252 Resp: 978

Ion	Ratio	Lower	Upper
252	100		
253	30.5	21.9	32.9
125	54.5	15.0	22.6

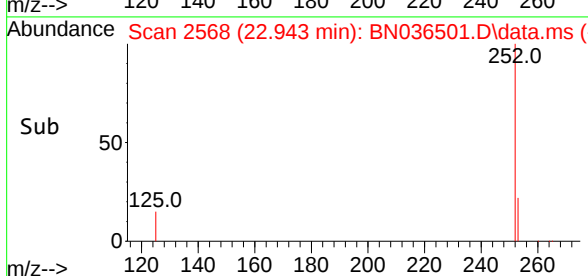
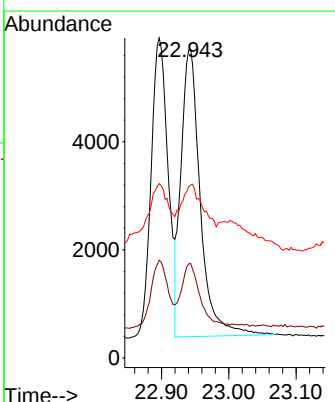
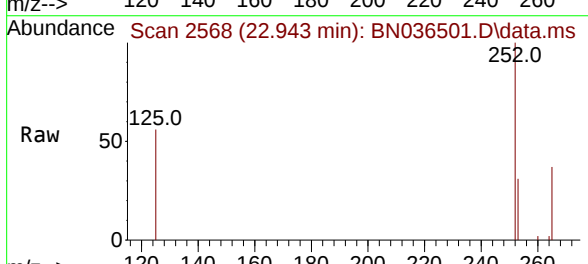
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 Reviewed By :Rahul Chavli 02/25/2025
 Supervised By :mohammad ahmed 02/28/2025

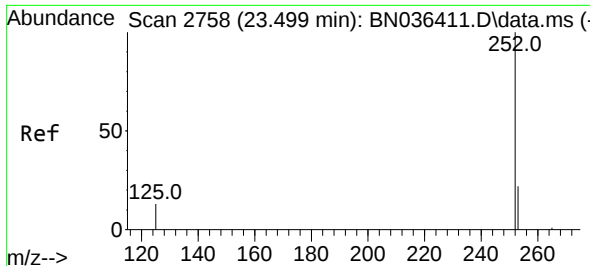


#38
 Benzo(k)fluoranthene
 Concen: 0.148 ng
 RT: 22.943 min Scan# 2568
 Delta R.T. -0.015 min
 Lab File: BN036501.D
 Acq: 24 Feb 2025 16:13

Tgt Ion:252 Resp: 10607

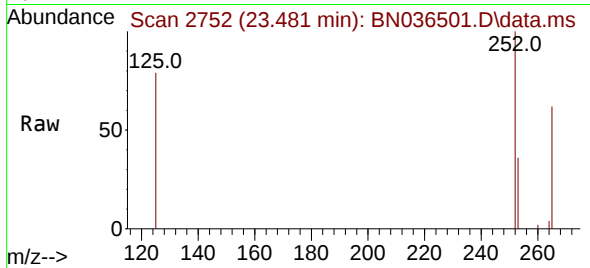
Ion	Ratio	Lower	Upper
252	100		
253	30.6	22.2	33.4
125	56.1	15.0	22.4





#39
Benzo(a)pyrene
Concen: 0.110 ng
RT: 23.481 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

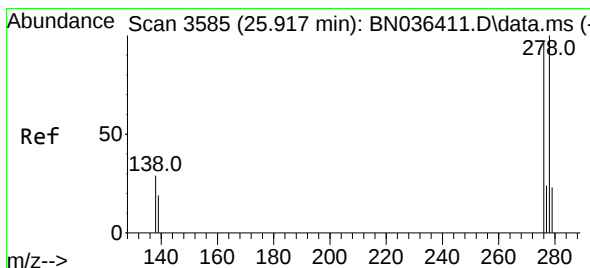
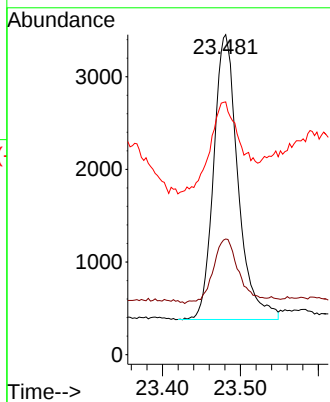
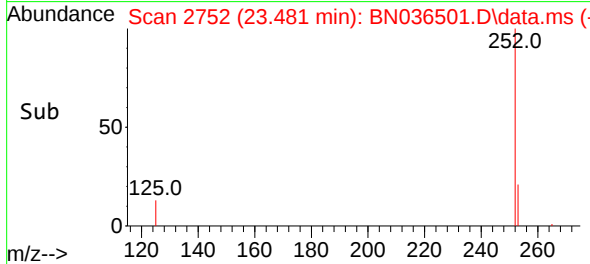
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250219DL



Tgt Ion:252 Resp: 6675
Ion Ratio Lower Upper
252 100
253 36.1 24.4 36.6
125 79.0 18.2 27.2

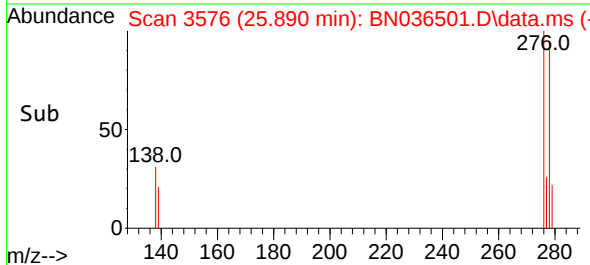
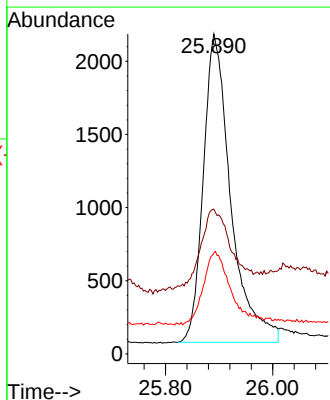
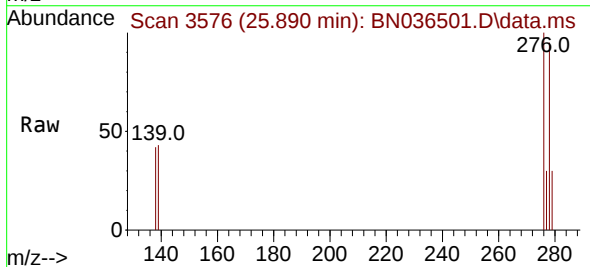
Manual Integrations
APPROVED

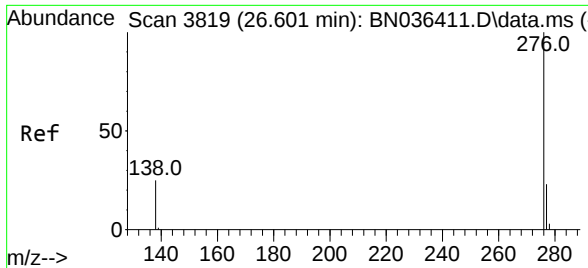
Reviewed By :Rahul Chavli 02/25/2025
Supervised By :mohammad ahmed 02/28/2025



#40
Dibenzo(a,h)anthracene
Concen: 0.128 ng
RT: 25.890 min Scan# 3576
Delta R.T. -0.026 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

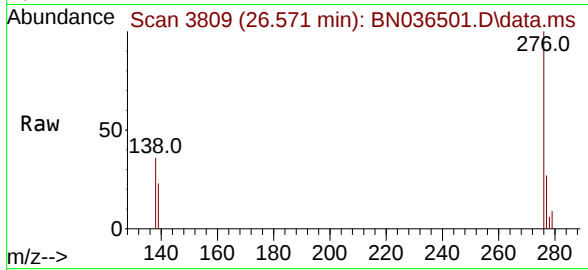
Tgt Ion:278 Resp: 7504
Ion Ratio Lower Upper
278 100
139 45.2 18.5 27.7#
279 31.6 24.8 37.2





#41
Benzo(g,h,i)perylene
Concen: 0.119 ng
RT: 26.571 min Scan# 3809
Delta R.T. -0.029 min
Lab File: BN036501.D
Acq: 24 Feb 2025 16:13

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250219DL



Tgt Ion:276 Resp: 7909
Ion Ratio Lower Upper
276 100
277 26.9 20.7 31.1
138 36.0 21.8 32.6

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