

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101023\
 Data File : BN028203.D
 Acq On : 10 Oct 2023 18:39
 Operator : MA/JU
 Sample : 04657-11
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 W-1(0-2IN)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/12/2023

Quant Time: Oct 11 02:33:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN100223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 10 00:42:22 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	4228	0.400	ng	0.00
7) Naphthalene-d8	10.735	136	13108	0.400	ng	0.00
13) Acenaphthene-d10	14.566	164	7213	0.400	ng	0.00
19) Phenanthrene-d10	17.319	188	14172	0.400	ng	0.00
29) Chrysene-d12	21.515	240	15142	0.400	ng	# 0.00
35) Perylene-d12	23.984	264	18902	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.466	112	3719	0.295	ng	0.00
5) Phenol-d6	7.091	99	4449	0.280	ng	0.00
8) Nitrobenzene-d5	9.123	82	3539	0.317	ng	0.00
11) 2-Methylnaphthalene-d10	12.317	152	4873	0.251	ng	0.00
14) 2,4,6-Tribromophenol	16.065	330	857	0.259	ng	-0.01
15) 2-Fluorobiphenyl	13.186	172	6762	0.260	ng	0.00
27) Fluoranthene-d10	19.356	212	8046	0.226	ng	0.00
31) Terphenyl-d14	19.941	244	8505	0.241	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.789	128	135166	3.991	ng	98
12) 2-Methylnaphthalene	12.392	142	24275	1.025	ng	# 89
16) Acenaphthylene	14.288	152	680868	21.308	ng	100
17) Acenaphthene	14.630	154	35819	1.759	ng	99
18) Fluorene	15.606	166	81787	3.092	ng	89
25) Phenanthrene	17.356	178	812615	21.269	ng	100
26) Anthracene	17.455	178	516548	14.303	ng	98
28) Fluoranthene	19.388	202	2285052	51.822	ng	99
30) Pyrene	19.755	202	2202641	39.670	ng	99
32) Benzo(a)anthracene	21.497	228	1631764	31.669	ng	98
33) Chrysene	21.560	228	1244466	25.062	ng	97
34) Bis(2-ethylhexyl)phtha...	21.372	149	15664	0.462	ng	# 90
36) Indeno(1,2,3-cd)pyrene	26.577	276	947986	14.910	ng	97
37) Benzo(b)fluoranthene	23.227	252	1802939	29.534	ng	# 89
38) Benzo(k)fluoranthene	23.270	252	770770m	12.448	ng	
39) Benzo(a)pyrene	23.879	252	1555136m	26.941	ng	
40) Dibenzo(a,h)anthracene	26.586	278	275896	5.305	ng	97
41) Benzo(g,h,i)perylene	27.393	276	887412	16.622	ng	95

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

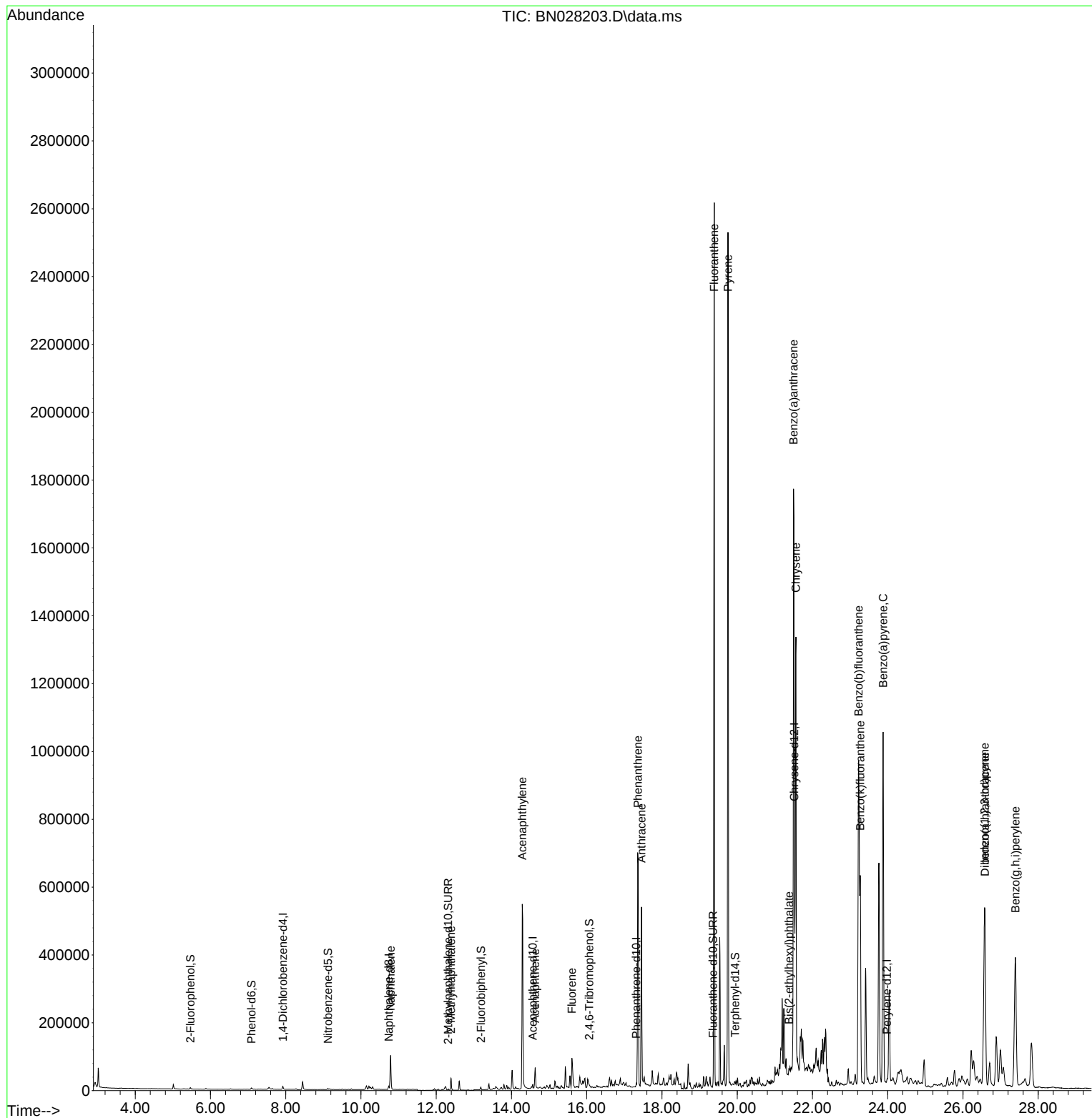
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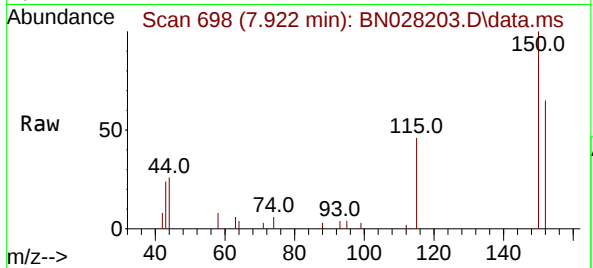
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/12/2023





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

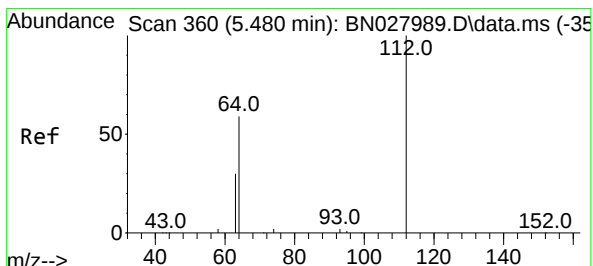
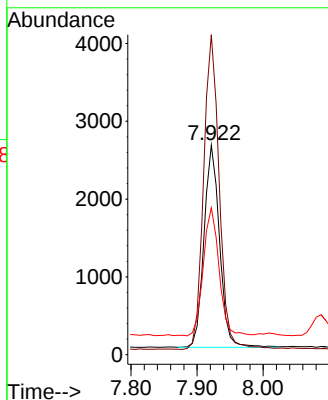
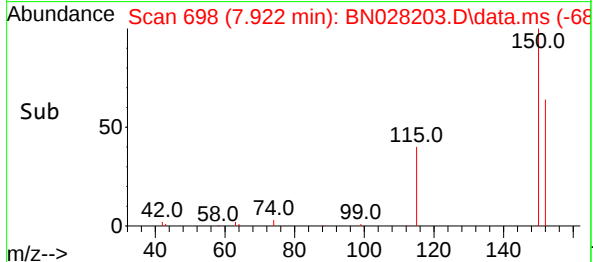
Instrument :
BNA_N
ClientSampleId :
W-1(0-2IN)



Tgt Ion:152 Resp: 4228
Ion Ratio Lower Upper
152 100
150 152.7 125.6 188.4
115 70.1 54.8 82.2

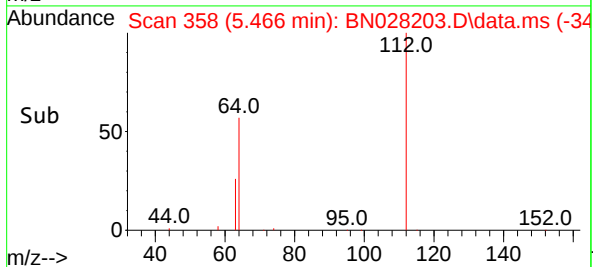
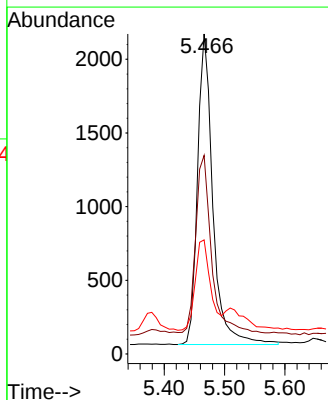
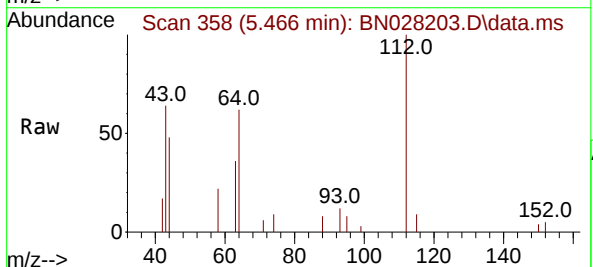
Manual Integrations
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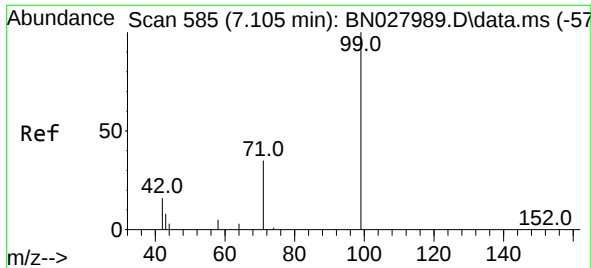
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/12/2023



#4
2-Fluorophenol
Concen: 0.295 ng
RT: 5.466 min Scan# 358
Delta R.T. -0.000 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

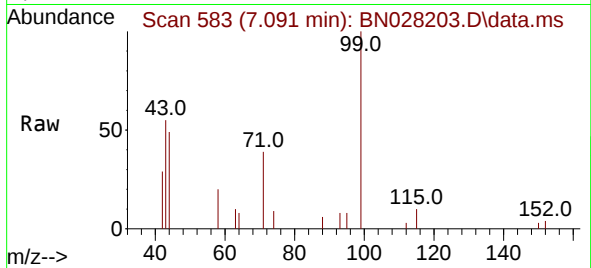
Tgt Ion:112 Resp: 3719
Ion Ratio Lower Upper
112 100
64 57.9 45.0 67.6
63 29.1 23.4 35.0





#5
Phenol-d6
Concen: 0.280 ng
RT: 7.091 min Scan# 583
Delta R.T. -0.000 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

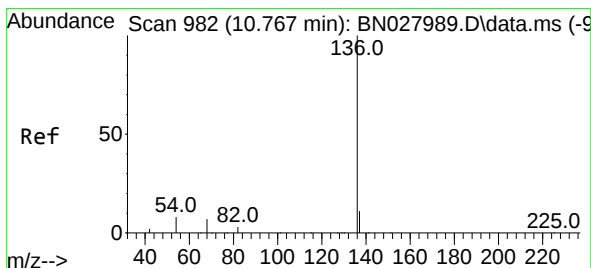
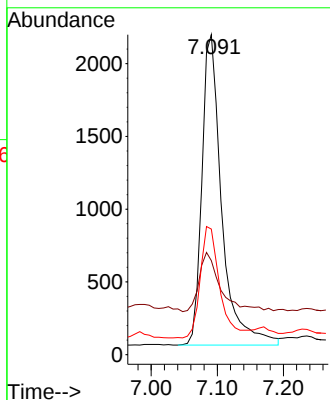
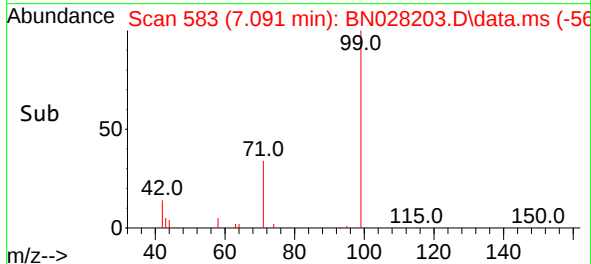
Instrument :
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W-1(0-2IN)



Tgt Ion: 99 Resp: 4449
Ion Ratio Lower Upper
99 100
42 20.8 14.6 22.0
71 34.9 28.3 42.5

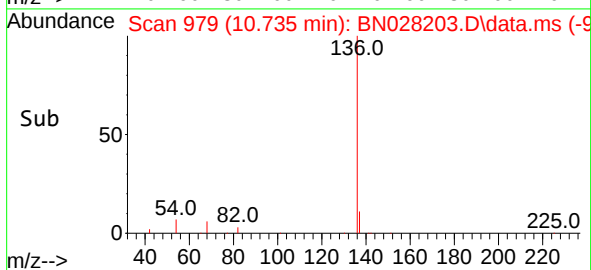
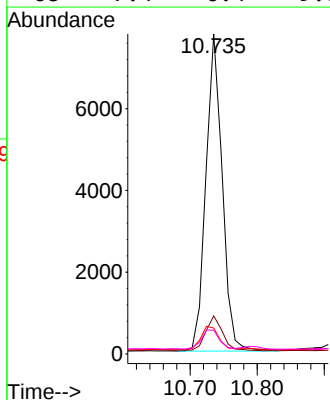
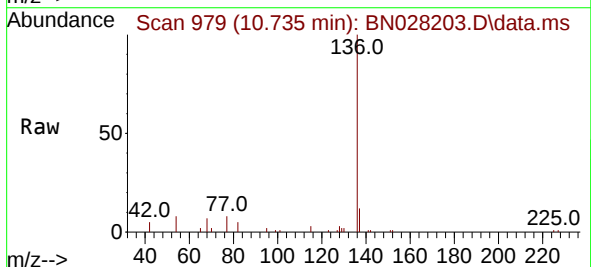
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#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.000 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

Tgt Ion:136 Resp: 13108
Ion Ratio Lower Upper
136 100
137 11.9 9.4 14.0
54 8.1 7.0 10.6
68 7.4 6.4 9.6





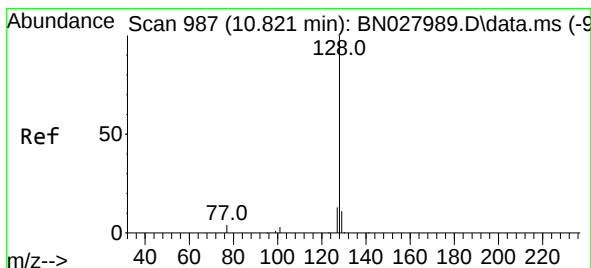
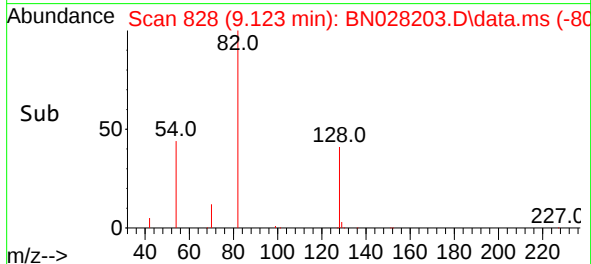
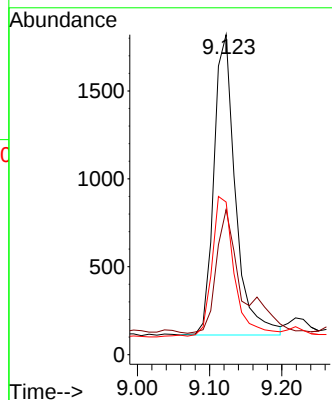
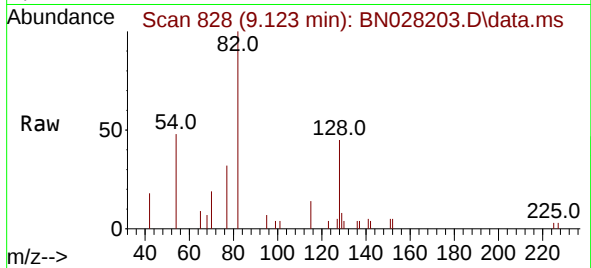
#8
Nitrobenzene-d5
Concen: 0.317 ng
RT: 9.123 min Scan# 801
Delta R.T. -0.000 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

Instrument :
BNA_N
ClientSampleId :
W-1(0-2IN)

Tgt Ion: 82 Resp: 3539
Ion Ratio Lower Upper
82 100
128 45.3 32.7 49.1
54 47.7 38.7 58.1

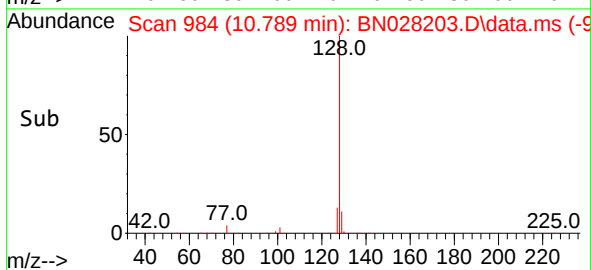
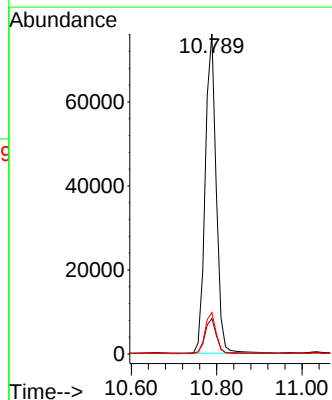
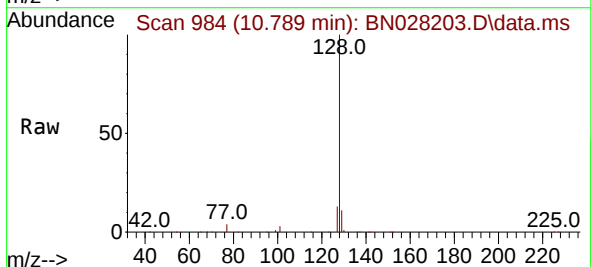
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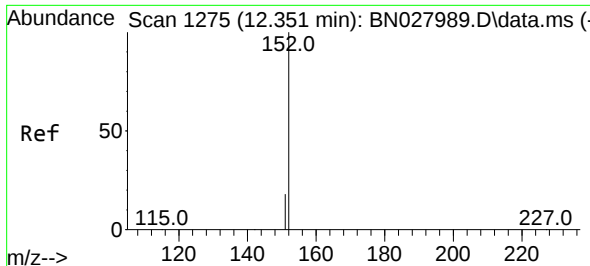
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/12/2023



#9
Naphthalene
Concen: 3.991 ng
RT: 10.789 min Scan# 984
Delta R.T. -0.000 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

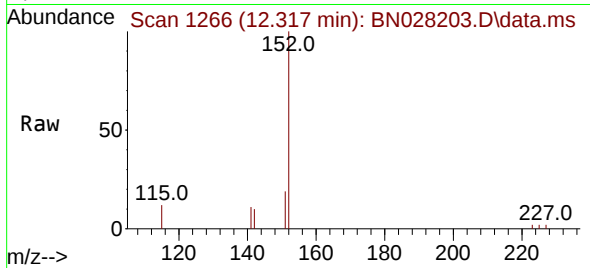
Tgt Ion:128 Resp: 135166
Ion Ratio Lower Upper
128 100
129 11.1 9.4 14.2
127 12.9 10.9 16.3





#11
2-Methylnaphthalene-d10
Concen: 0.251 ng
RT: 12.317 min Scan# 1266
Delta R.T. -0.008 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

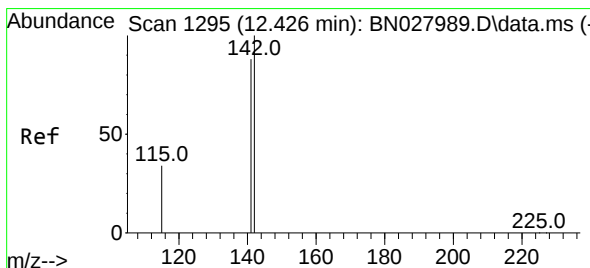
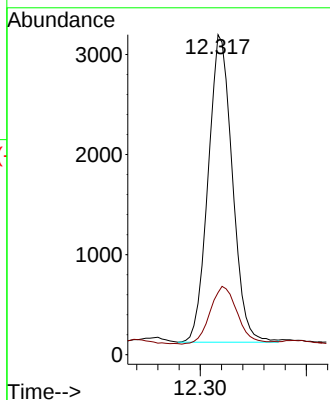
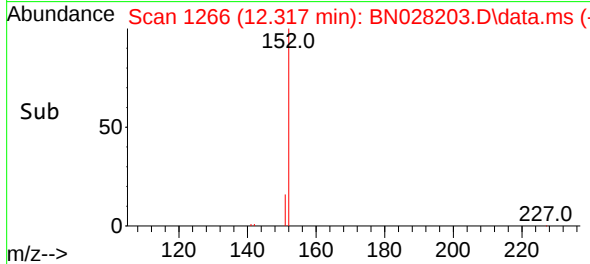
Instrument :
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W-1(0-2IN)



Tgt Ion:152 Resp: 487
Ion Ratio Lower Upper
152 100
151 21.3 16.5 24.7

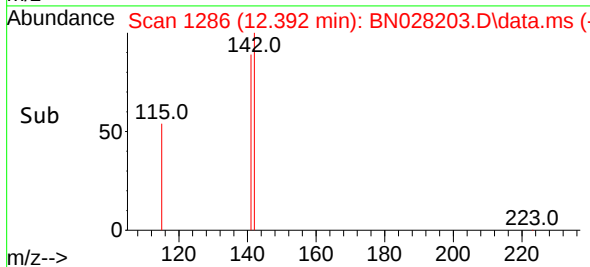
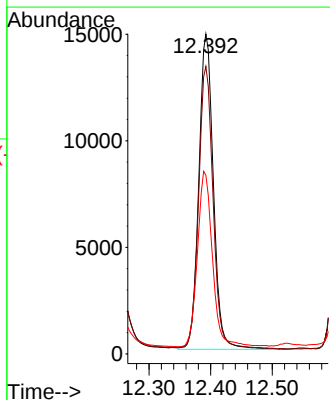
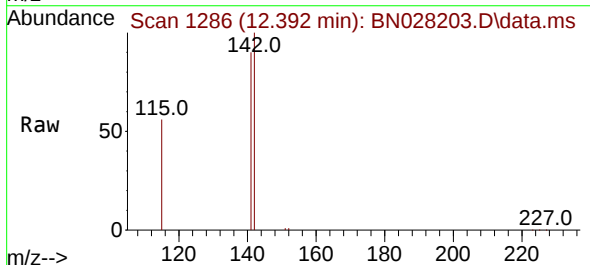
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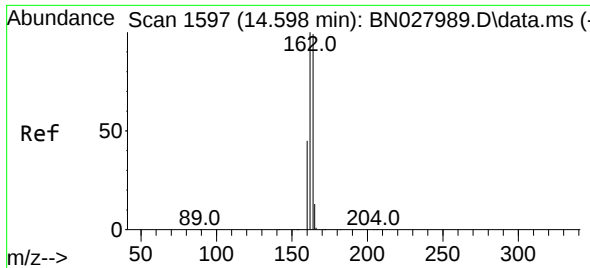
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/12/2023



#12
2-Methylnaphthalene
Concen: 1.025 ng
RT: 12.392 min Scan# 1286
Delta R.T. -0.008 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

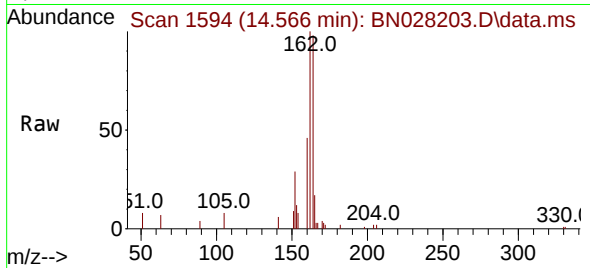
Tgt Ion:142 Resp: 24275
Ion Ratio Lower Upper
142 100
141 89.8 70.7 106.1
115 55.8 28.6 42.8#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.566 min Scan# 1594
Delta R.T. -0.000 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

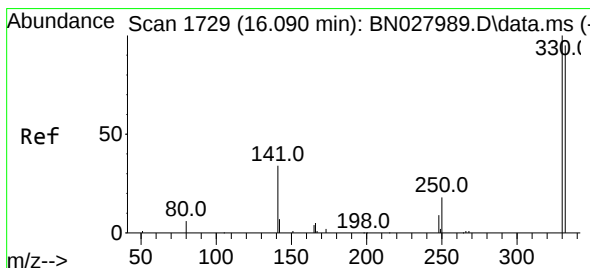
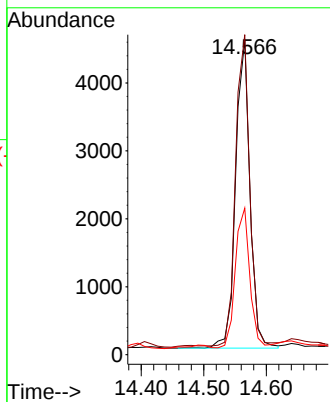
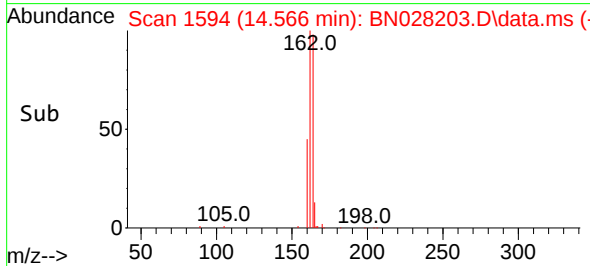
Instrument :
BNA_N
ClientSampleId :
W-1(0-2IN)



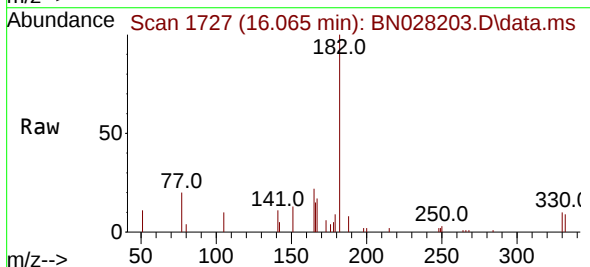
Tgt Ion:164 Resp: 721
Ion Ratio Lower Upper
164 100
162 101.6 80.8 121.2
160 46.5 36.4 54.6

Manual Integrations
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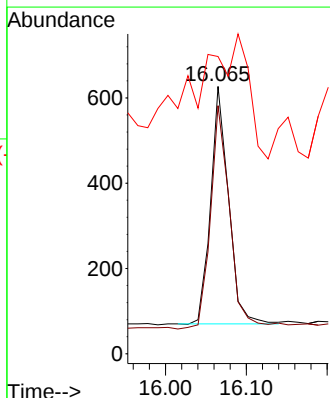
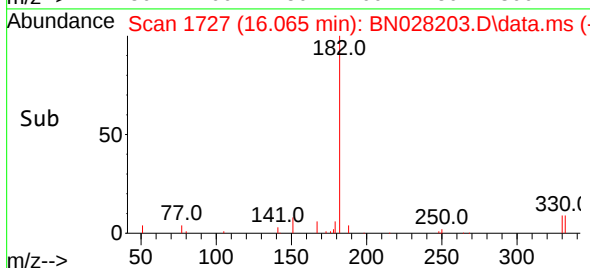
Reviewed By :Yogesh Patel 10/11/2023
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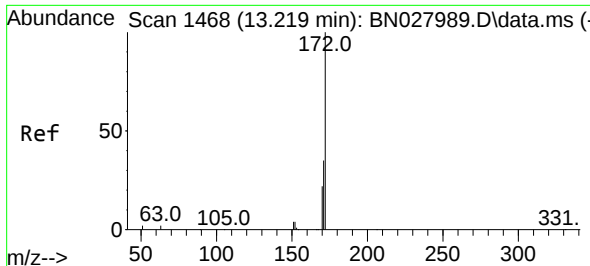


#14
2,4,6-Tribromophenol
Concen: 0.259 ng
RT: 16.065 min Scan# 1727
Delta R.T. -0.013 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39



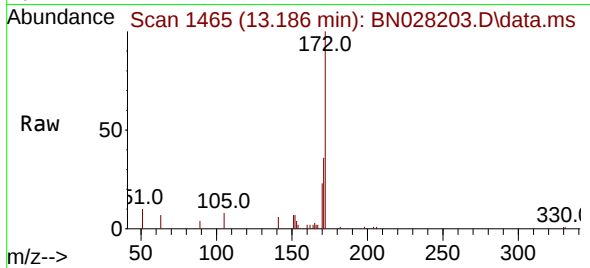
Tgt Ion:330 Resp: 857
Ion Ratio Lower Upper
330 100
332 103.5 78.1 117.1
141 0.0 33.4 50.2#





#15
2-Fluorobiphenyl
Concen: 0.260 ng
RT: 13.186 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

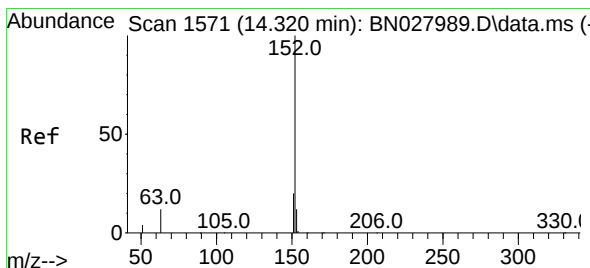
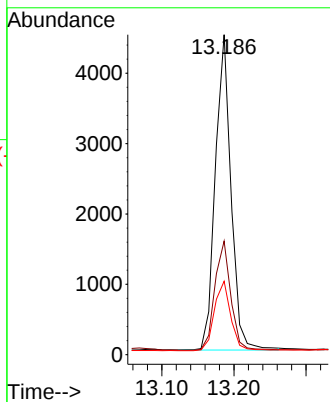
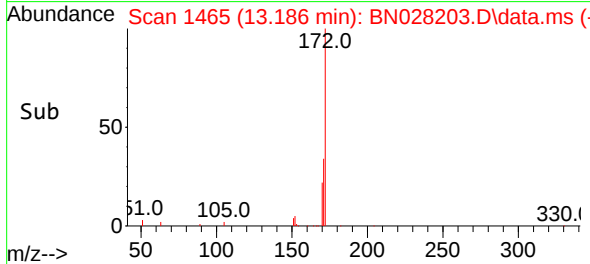
Instrument :
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W-1(0-2IN)



Tgt Ion:172 Resp: 6762
Ion Ratio Lower Upper
172 100
171 35.5 28.1 42.1
170 23.0 18.4 27.6

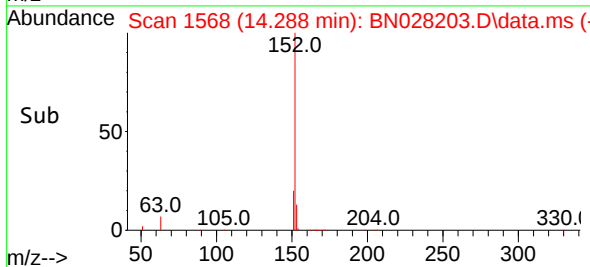
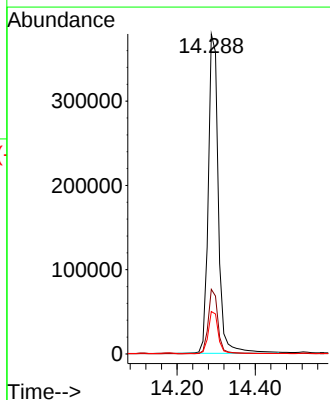
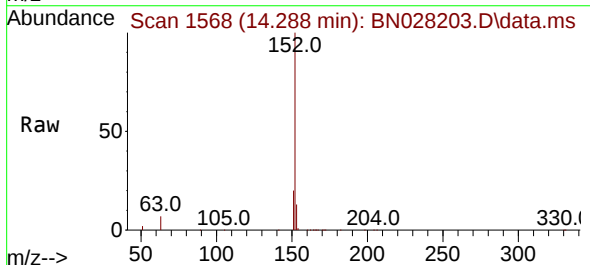
Manual Integrations
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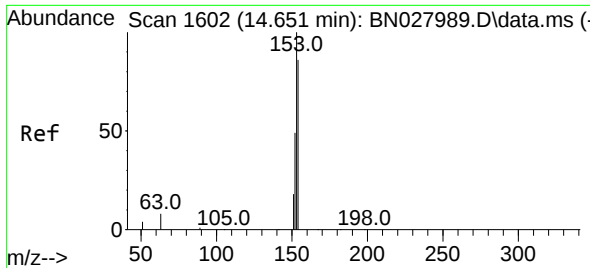
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/12/2023



#16
Acenaphthylene
Concen: 21.308 ng
RT: 14.288 min Scan# 1568
Delta R.T. -0.011 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

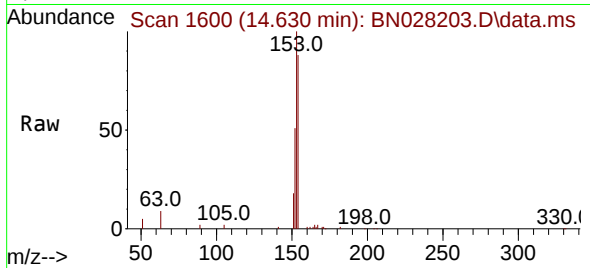
Tgt Ion:152 Resp: 680868
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 13.1 10.2 15.4





#17
 Acenaphthene
 Concen: 1.759 ng
 RT: 14.630 min Scan# 1600
 Delta R.T. -0.000 min
 Lab File: BN028203.D
 Acq: 10 Oct 2023 18:39

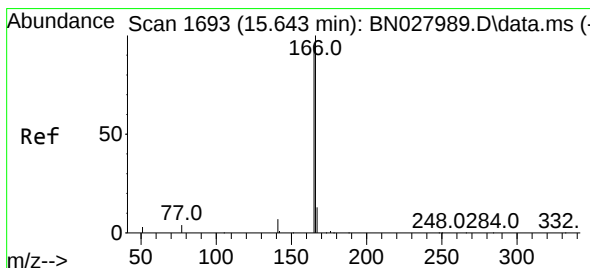
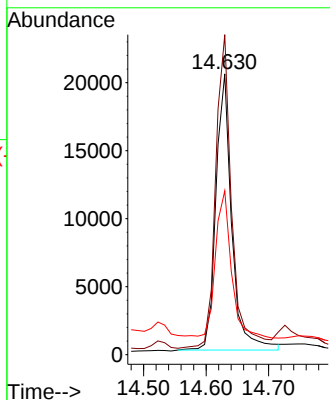
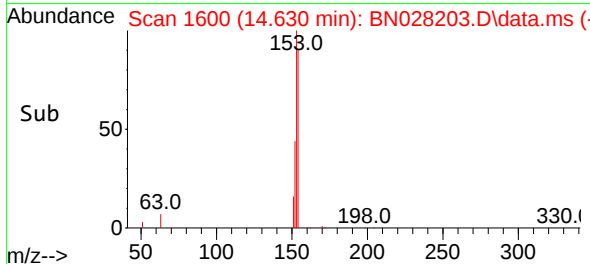
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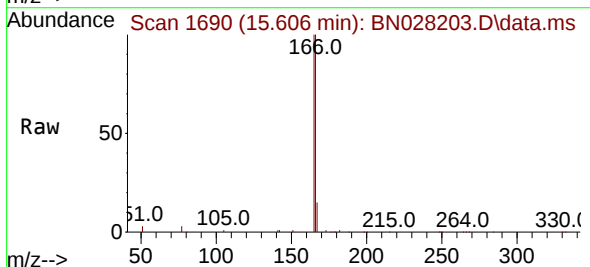
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 Ion Ratio Lower Upper
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 153 114.8 90.8 136.2
 152 53.6 43.9 65.9

Manual Integrations
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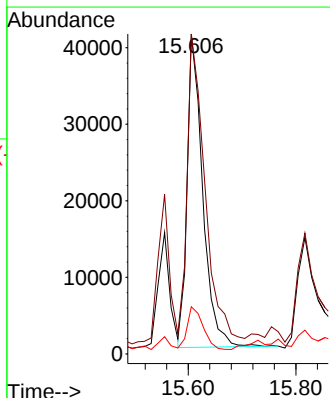
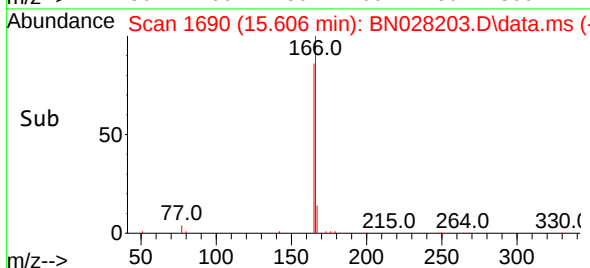
Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/12/2023

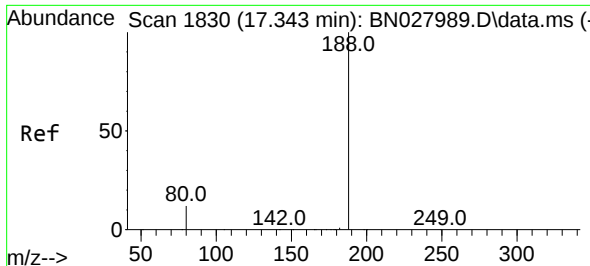


#18
 Fluorene
 Concen: 3.092 ng
 RT: 15.606 min Scan# 1690
 Delta R.T. -0.013 min
 Lab File: BN028203.D
 Acq: 10 Oct 2023 18:39



Tgt Ion:166 Resp: 81787
 Ion Ratio Lower Upper
 166 100
 165 109.2 77.8 116.8
 167 13.9 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.319 min Scan# 1828

Delta R.T. -0.000 min

Lab File: BN028203.D

Acq: 10 Oct 2023 18:39

Instrument :

BNA_N

ClientSampleId :

W-1(0-2IN)

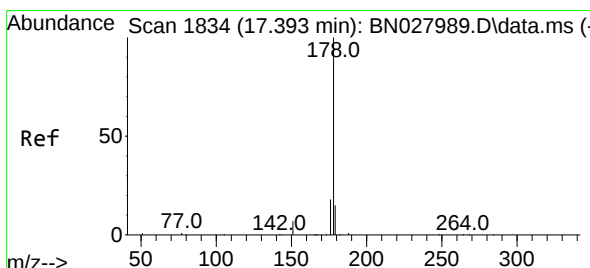
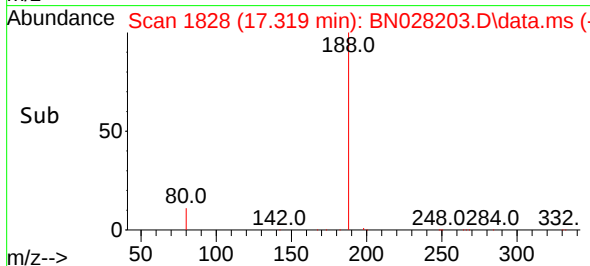
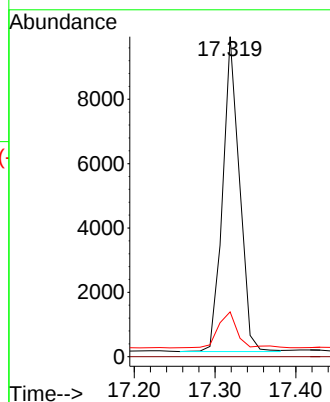
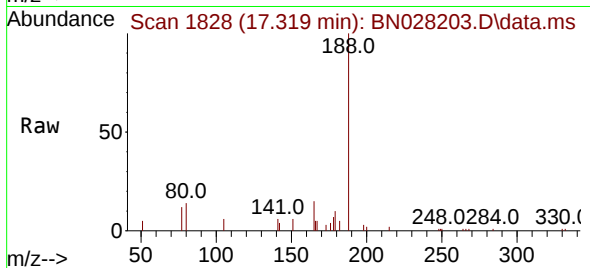
Tgt Ion:188	Resp:	1417
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	14.0	15.4

Manual Integrations

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Reviewed By :Yogesh Patel 10/11/2023

Supervised By :mohammad ahmed 10/12/2023



#25

Phenanthrene

Concen: 21.269 ng

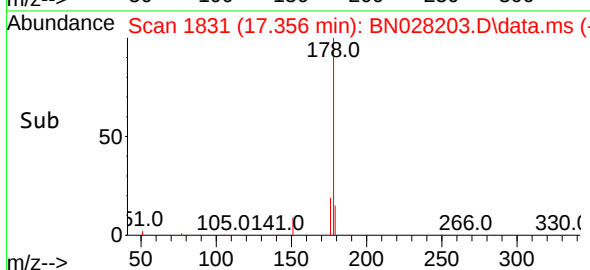
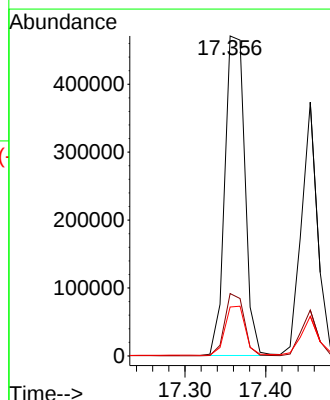
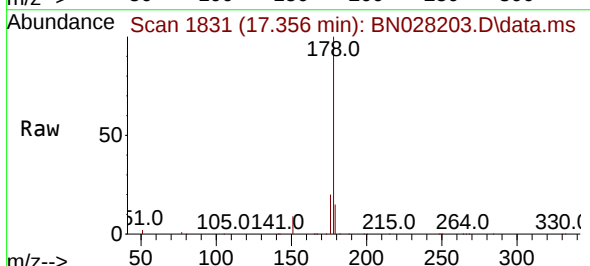
RT: 17.356 min Scan# 1831

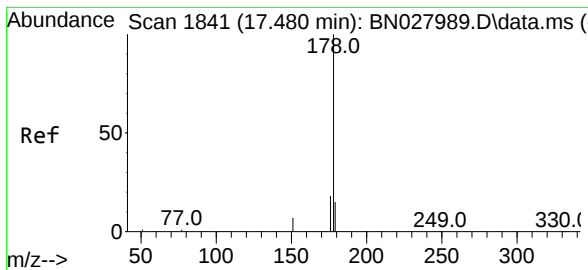
Delta R.T. -0.013 min

Lab File: BN028203.D

Acq: 10 Oct 2023 18:39

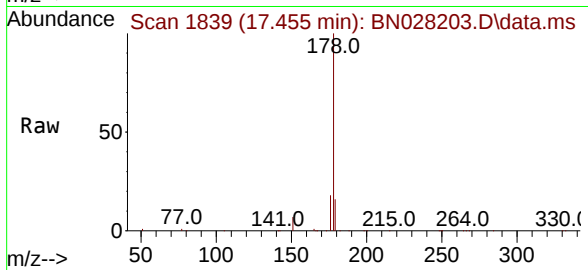
Tgt Ion:178	Resp:	812615
Ion Ratio	Lower	Upper
178	100	
176	18.9	15.3
179	15.6	12.4





#26
 Anthracene
 Concen: 14.303 ng
 RT: 17.455 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN028203.D
 Acq: 10 Oct 2023 18:39

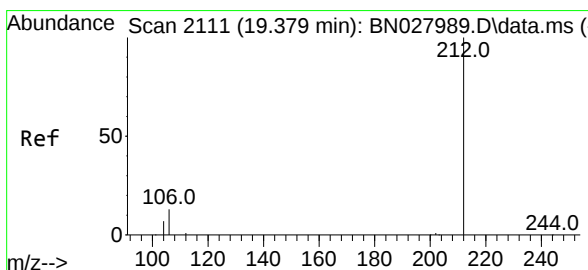
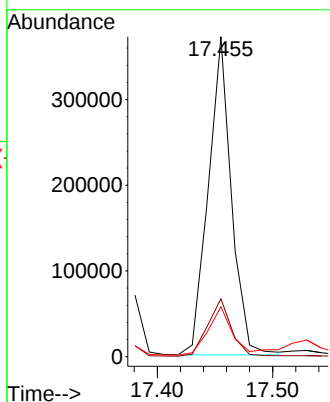
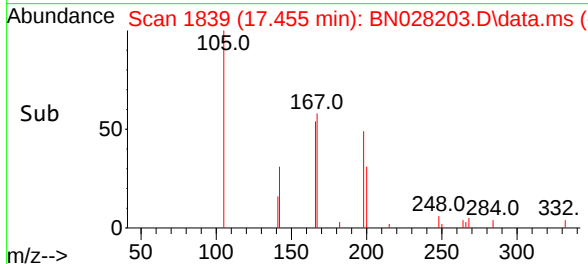
Instrument :
 BNA_N
 ClientSampleId :
 W-1(0-2IN)



Tgt Ion:178 Resp: 51654
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.7 22.1
 179 16.5 12.2 18.2

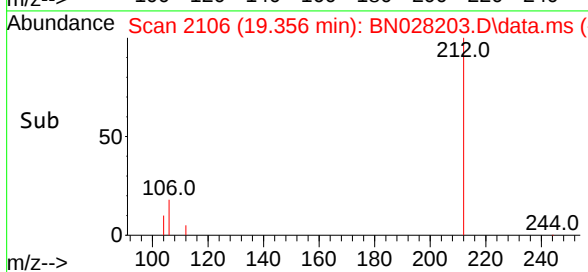
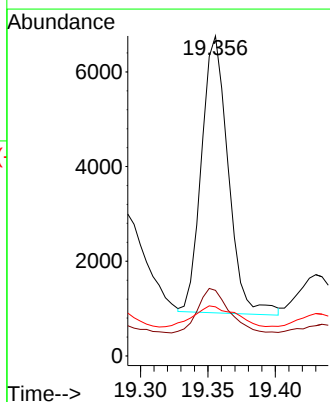
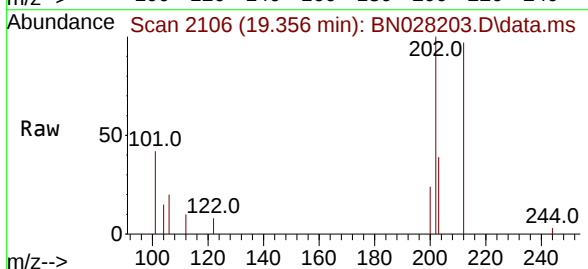
Manual Integrations
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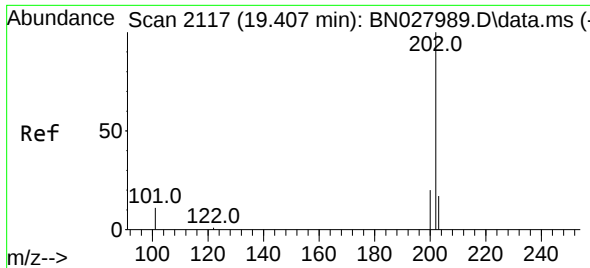
Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/12/2023



#27
 Fluoranthene-d10
 Concen: 0.226 ng
 RT: 19.356 min Scan# 2106
 Delta R.T. -0.000 min
 Lab File: BN028203.D
 Acq: 10 Oct 2023 18:39

Tgt Ion:212 Resp: 8046
 Ion Ratio Lower Upper
 212 100
 106 18.8 11.3 16.9#
 104 12.2 6.4 9.6#





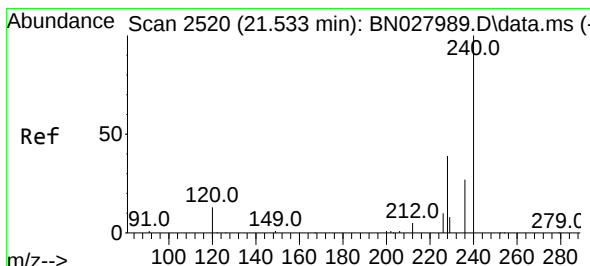
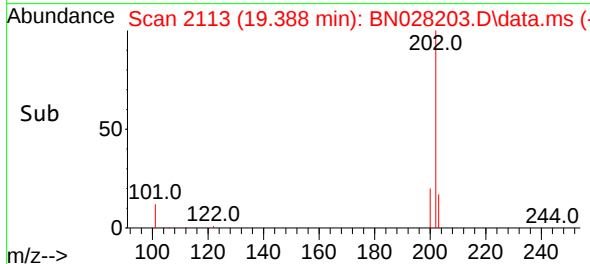
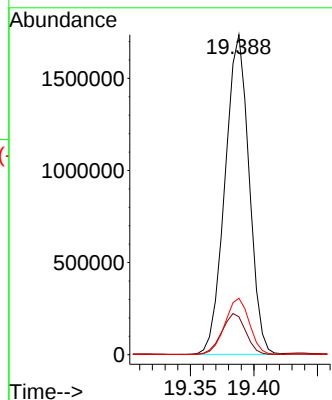
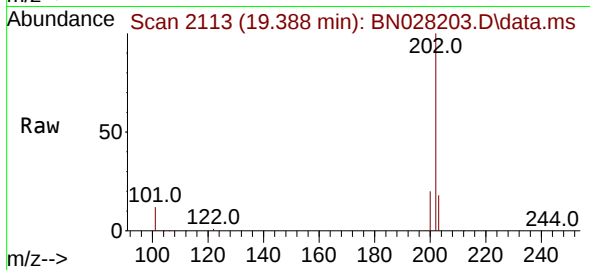
#28
Fluoranthene
Concen: 51.822 ng
RT: 19.388 min Scan# 2113
Delta R.T. 0.004 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

Instrument :
BNA_N
ClientSampleId :
W-1(0-2IN)

Tgt Ion:202 Resp: 2285052
Ion Ratio Lower Upper
202 100
101 12.8 9.8 14.6
203 17.8 13.8 20.8

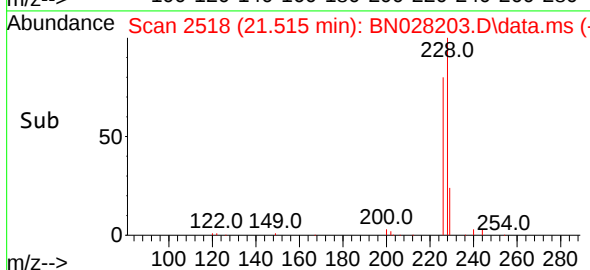
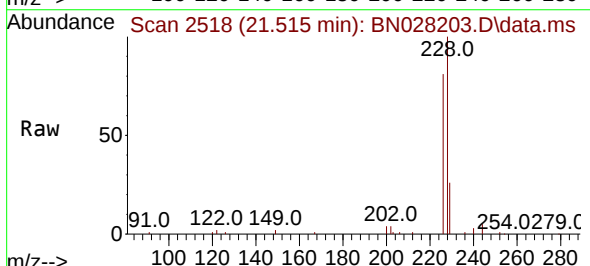
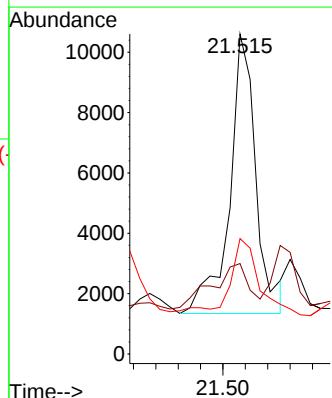
Manual Integrations
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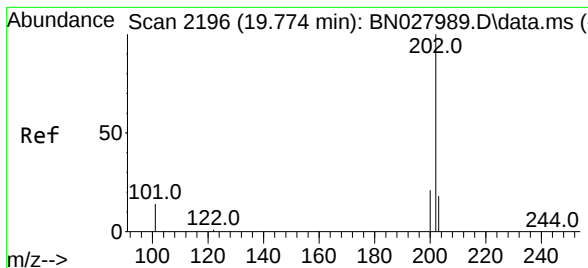
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/12/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.515 min Scan# 2518
Delta R.T. -0.000 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

Tgt Ion:240 Resp: 15142
Ion Ratio Lower Upper
240 100
120 28.3 13.8 20.6#
236 36.1 22.6 33.8#





#30

Pyrene

Concen: 39.670 ng

RT: 19.755 min Scan# 2196

Delta R.T. 0.004 min

Lab File: BN028203.D

Acq: 10 Oct 2023 18:39

Instrument :

BNA_N

ClientSampleId :

W-1(0-2IN)

Tgt Ion:202 Resp: 220264

Ion Ratio Lower Upper

202 100

200 20.7 16.5 24.7

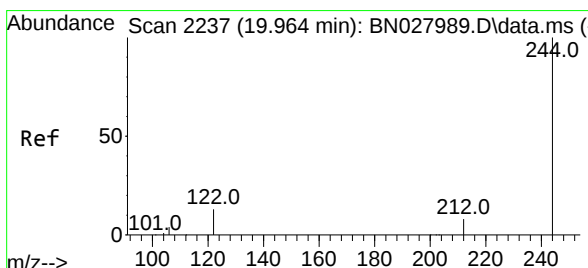
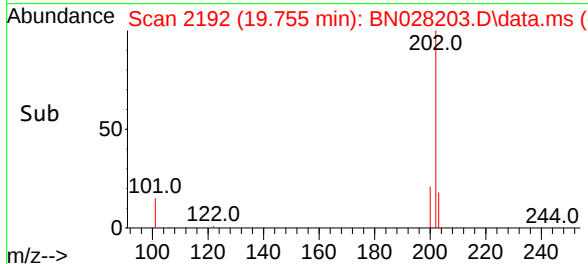
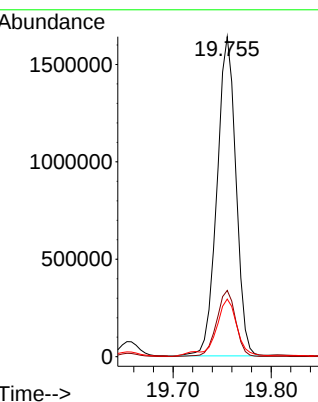
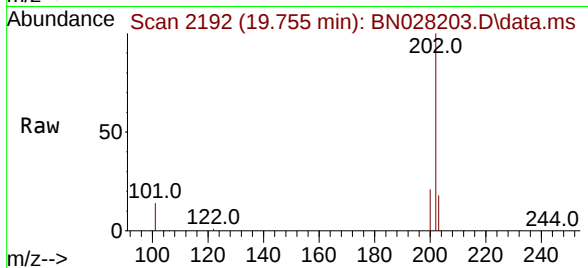
203 19.6 14.7 22.1

Manual Integrations

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Reviewed By :Yogesh Patel 10/11/2023

Supervised By :mohammad ahmed 10/12/2023



#31

Terphenyl-d14

Concen: 0.241 ng

RT: 19.941 min Scan# 2232

Delta R.T. -0.000 min

Lab File: BN028203.D

Acq: 10 Oct 2023 18:39

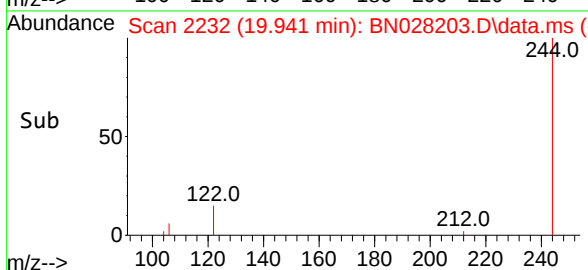
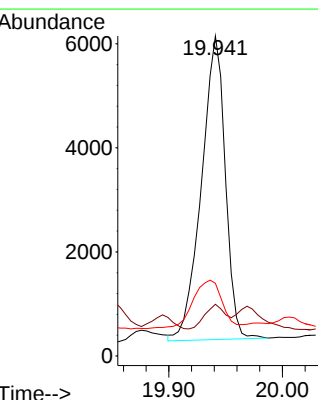
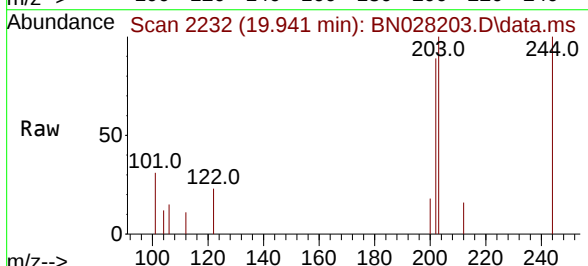
Tgt Ion:244 Resp: 8505

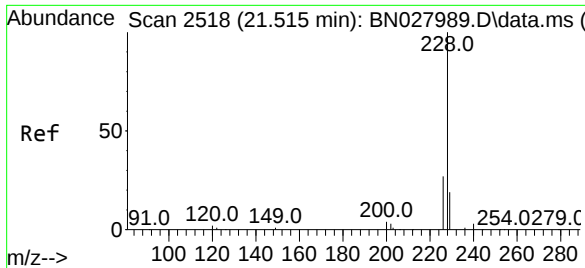
Ion Ratio Lower Upper

244 100

212 16.1 6.6 9.8#

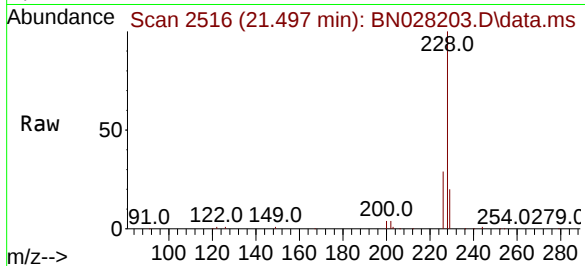
122 22.7 11.4 17.0#





#32
Benzo(a)anthracene
Concen: 31.669 ng
RT: 21.497 min Scan# 21497
Delta R.T. -0.000 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

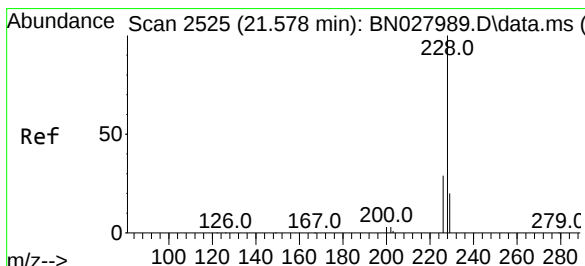
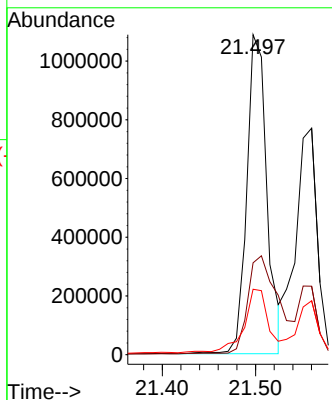
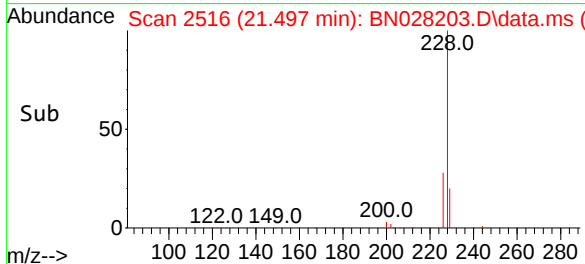
Instrument :
BNA_N
ClientSampleId :
W-1(0-2IN)



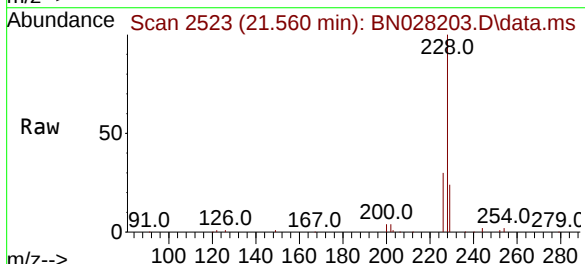
Tgt Ion:228 Resp: 1631764
Ion Ratio Lower Upper
228 100
226 28.7 22.0 33.0
229 20.5 16.0 24.0

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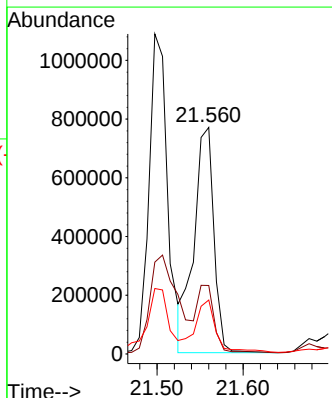
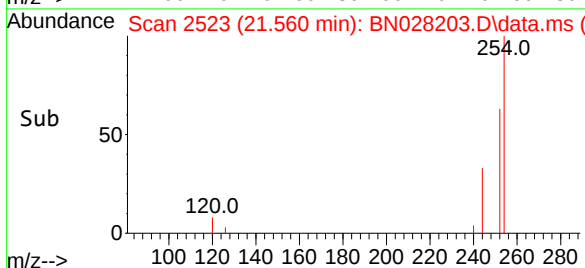
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/12/2023

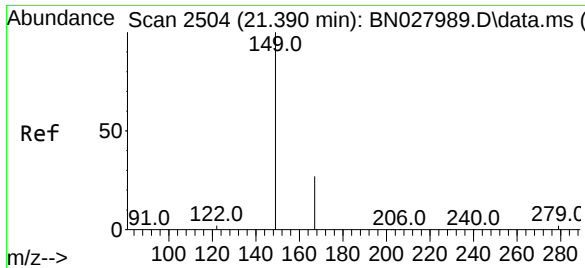


#33
Chrysene
Concen: 25.062 ng
RT: 21.560 min Scan# 2523
Delta R.T. 0.009 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39



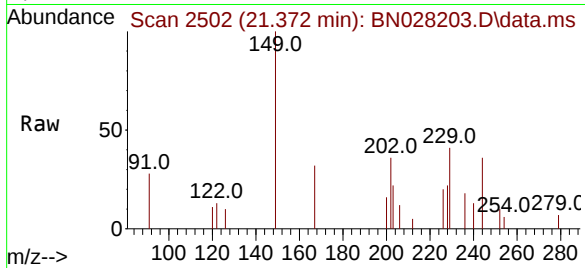
Tgt Ion:228 Resp: 1244466
Ion Ratio Lower Upper
228 100
226 30.3 23.8 35.8
229 23.8 16.6 25.0





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.462 ng
RT: 21.372 min Scan# 2156
Delta R.T. 0.009 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

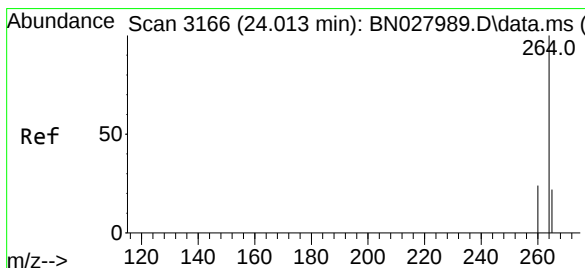
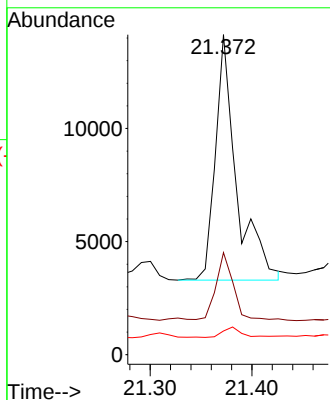
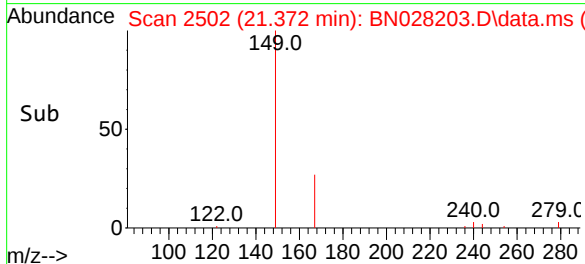
Instrument :
BNA_N
ClientSampleId :
W-1(0-2IN)



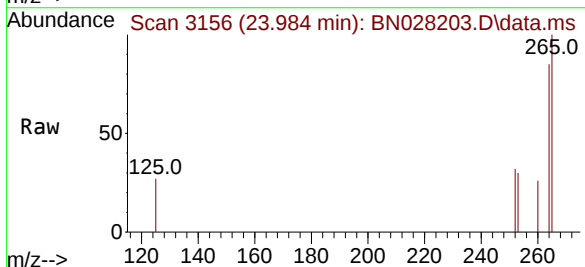
Tgt Ion:149 Resp: 1566
Ion Ratio Lower Upper
149 100
167 21.6 22.1 33.1
279 3.7 3.4 5.0

Manual Integrations
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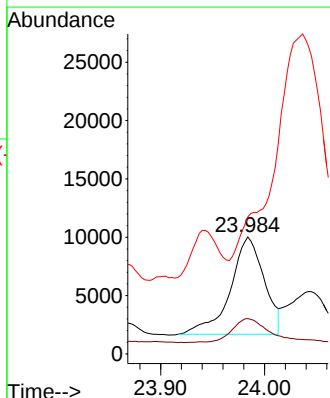
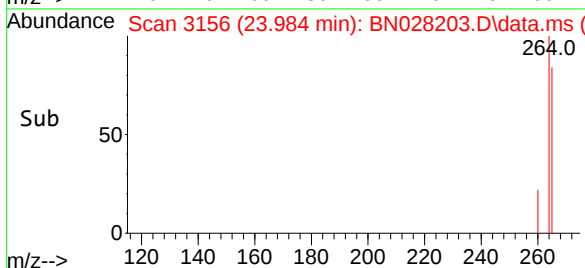
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/12/2023

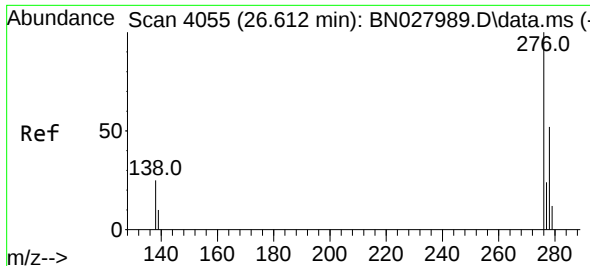


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.984 min Scan# 3156
Delta R.T. 0.009 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39



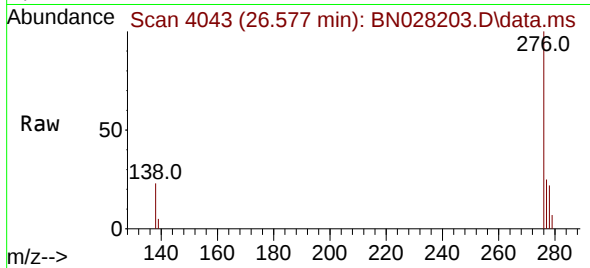
Tgt Ion:264 Resp: 18902
Ion Ratio Lower Upper
264 100
260 30.2 20.2 30.4
265 117.1 54.8 82.2





#36
Indeno(1,2,3-cd)pyrene
Concen: 14.910 ng
RT: 26.577 min Scan# 4055
Delta R.T. 0.020 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

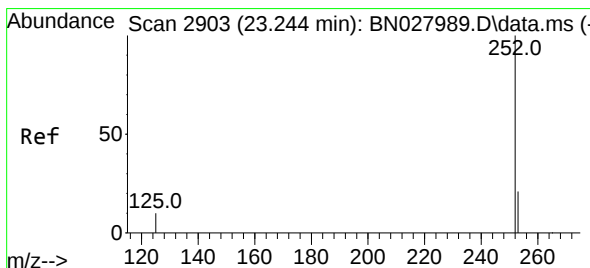
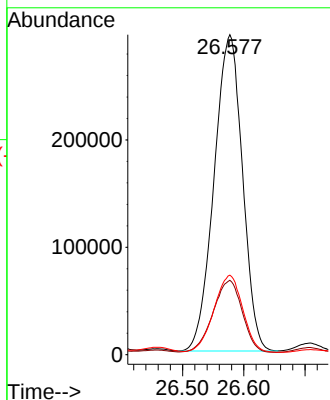
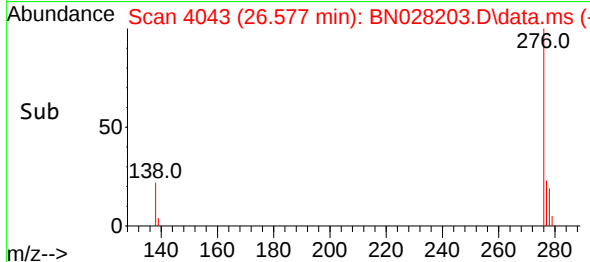
Instrument :
BNA_N
ClientSampleId :
W-1(0-2IN)



Tgt Ion:276 Resp: 947980
Ion Ratio Lower Upper
276 100
138 23.5 20.9 31.3
277 24.8 19.8 29.6

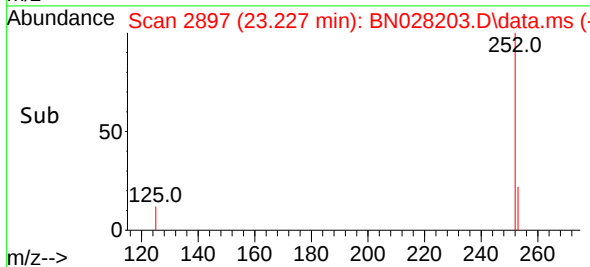
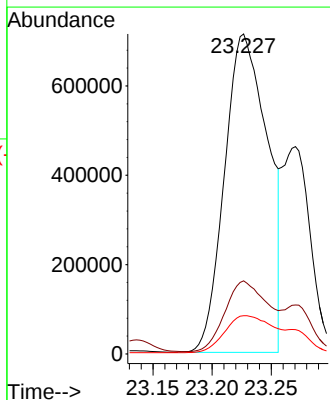
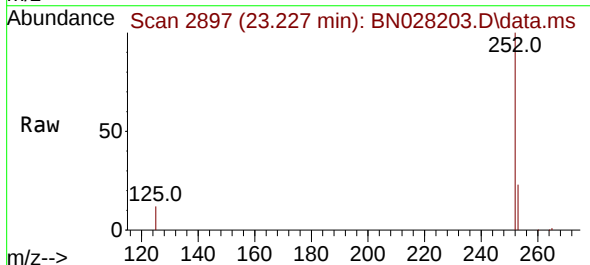
Manual Integrations
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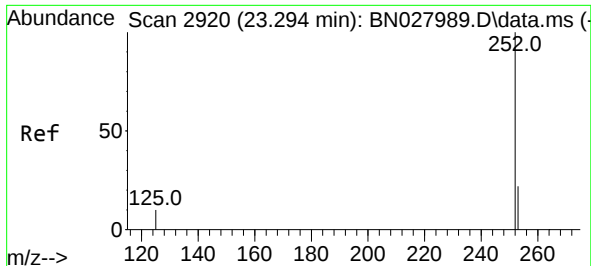
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/12/2023



#37
Benzo(b)fluoranthene
Concen: 29.534 ng
RT: 23.227 min Scan# 2897
Delta R.T. 0.014 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

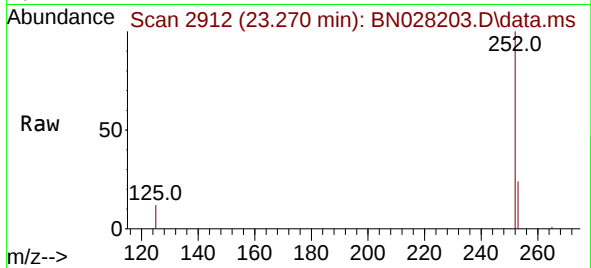
Tgt Ion:252 Resp: 1802939
Ion Ratio Lower Upper
252 100
253 22.9 22.9 34.3#
125 12.0 13.8 20.8#





#38
Benzo(k)fluoranthene
Concen: 12.448 ng m
RT: 23.270 min Scan# 2912
Delta R.T. 0.009 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

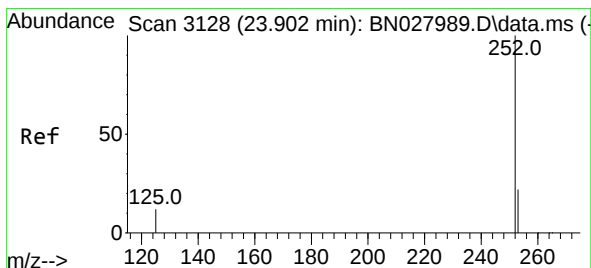
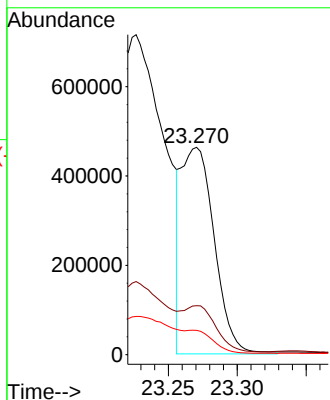
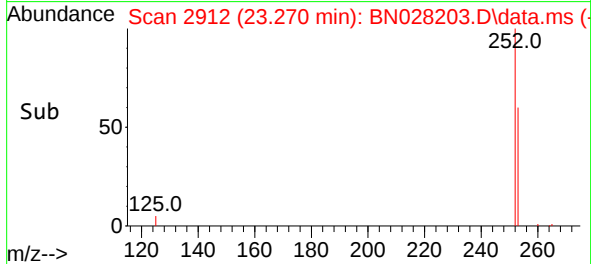
Instrument :
BNA_N
ClientSampleId :
W-1(0-2IN)



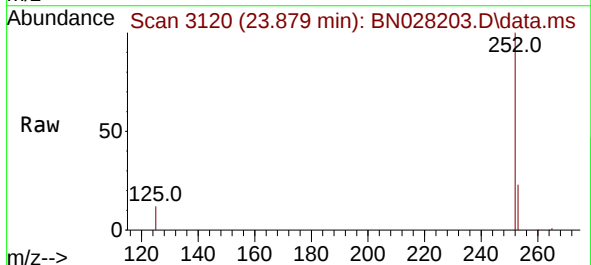
Tgt Ion:252 Resp: 770770
Ion Ratio Lower Upper
252 100
253 23.6 23.1 34.7
125 11.8 13.8 20.8

Manual Integrations
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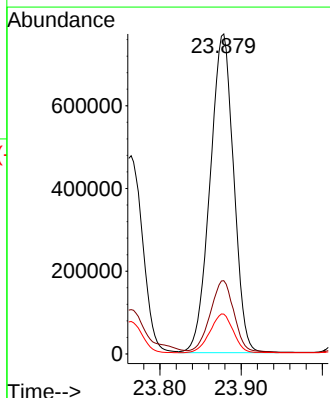
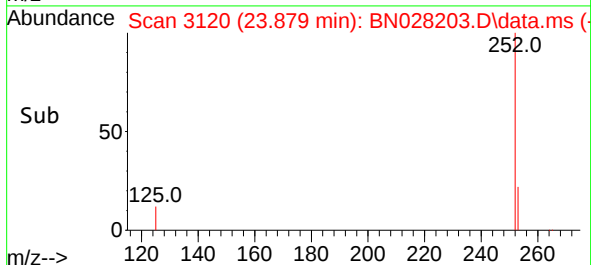
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/12/2023

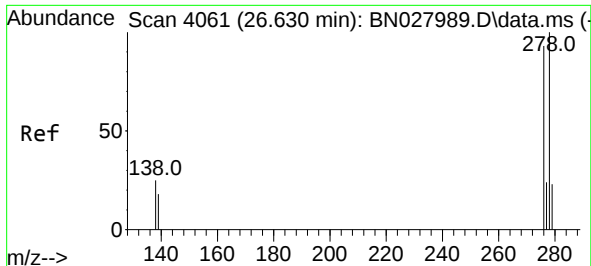


#39
Benzo(a)pyrene
Concen: 26.941 ng m
RT: 23.879 min Scan# 3120
Delta R.T. 0.014 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39



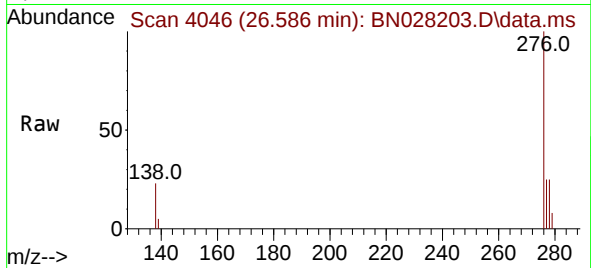
Tgt Ion:252 Resp: 1555136
Ion Ratio Lower Upper
252 100
253 22.9 25.0 37.4#
125 12.4 16.6 24.8#





#40
Dibenzo(a,h)anthracene
Concen: 5.305 ng
RT: 26.586 min Scan# 4061
Delta R.T. 0.009 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

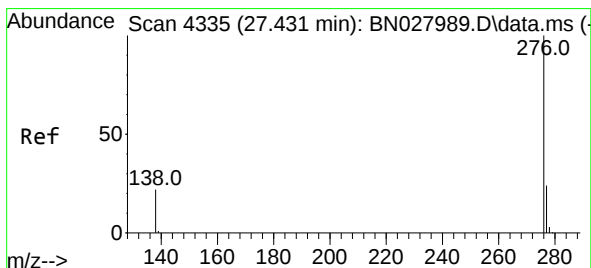
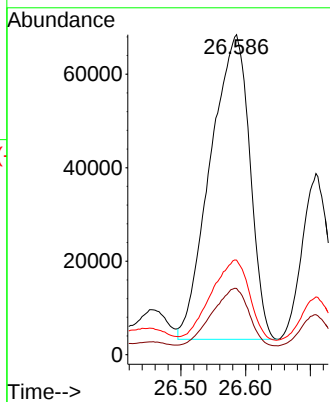
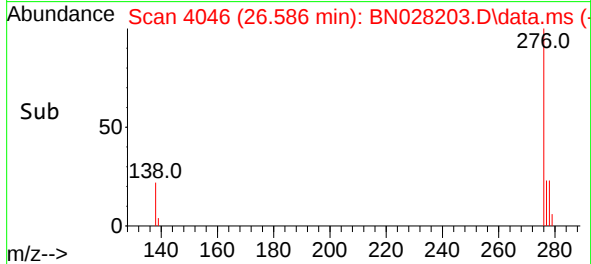
Instrument :
BNA_N
ClientSampleId :
W-1(0-2IN)



Tgt Ion:278 Resp: 275890
Ion Ratio Lower Upper
278 100
139 20.7 17.7 26.5
279 29.6 25.2 37.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/12/2023



#41
Benzo(g,h,i)perylene
Concen: 16.622 ng
RT: 27.393 min Scan# 4322
Delta R.T. 0.026 min
Lab File: BN028203.D
Acq: 10 Oct 2023 18:39

Tgt Ion:276 Resp: 887412
Ion Ratio Lower Upper
276 100
277 24.6 22.1 33.1
138 23.9 20.8 31.2

