

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092123\
 Data File : BN027783.D
 Acq On : 21 Sep 2023 10:48
 Operator : MA/JU
 Sample : 04367-03DL 50X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PILE-3DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/22/2023
 Supervised By :mohammad ahmed 09/22/2023

Quant Time: Sep 21 12:20:46 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 20 13:45:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.001	152	3587	0.400	ng	-0.02
7) Naphthalene-d8	10.821	136	11724	0.400	ng	-0.01
13) Acenaphthene-d10	14.640	164	6397	0.400	ng	0.00
19) Phenanthrene-d10	17.393	188	16478	0.400	ng	# 0.00
29) Chrysene-d12	21.569	240	16361	0.400	ng	# 0.00
35) Perylene-d12	24.069	264	16026	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.531	112	73	0.008	ng	0.00
5) Phenol-d6	7.156	99	88	0.008	ng	0.00
8) Nitrobenzene-d5	9.198	82	76	0.008	ng	-0.01
11) 2-Methylnaphthalene-d10	12.404	152	95	0.006	ng	0.00
14) 2,4,6-Tribromophenol	16.139	330	57	0.021	ng	0.00
15) 2-Fluorobiphenyl	13.261	172	164	0.008	ng	-0.01
27) Fluoranthene-d10	19.416	212	302	0.007	ng	0.00
31) Terphenyl-d14	20.001	244	425	0.013	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.874	128	3035	0.093	ng	94
12) 2-Methylnaphthalene	12.479	142	1205	0.053	ng	# 92
16) Acenaphthylene	14.373	152	6224	0.228	ng	99
17) Acenaphthene	14.705	154	2219	0.114	ng	99
18) Fluorene	15.680	166	4537	0.161	ng	97
25) Phenanthrene	17.430	178	71631	1.486	ng	100
26) Anthracene	17.530	178	18772	0.455	ng	97
28) Fluoranthene	19.449	202	121586	2.052	ng	99
30) Pyrene	19.811	202	117331	1.996	ng	99
32) Benzo(a)anthracene	21.560	228	61816	1.089	ng	98
33) Chrysene	21.614	228	59514	0.952	ng	97
34) Bis(2-ethylhexyl)phtha...	21.435	149	1651	0.066	ng	# 88
36) Indeno(1,2,3-cd)pyrene	26.682	276	29126	0.427	ng	94
37) Benzo(b)fluoranthene	23.297	252	66959	1.057	ng	98
38) Benzo(k)fluoranthene	23.344	252	25665m	0.399	ng	
39) Benzo(a)pyrene	23.955	252	51053m	0.887	ng	
40) Dibenzo(a,h)anthracene	26.700	278	7244m	0.130	ng	
41) Benzo(g,h,i)perylene	27.507	276	29800	0.484	ng	100

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

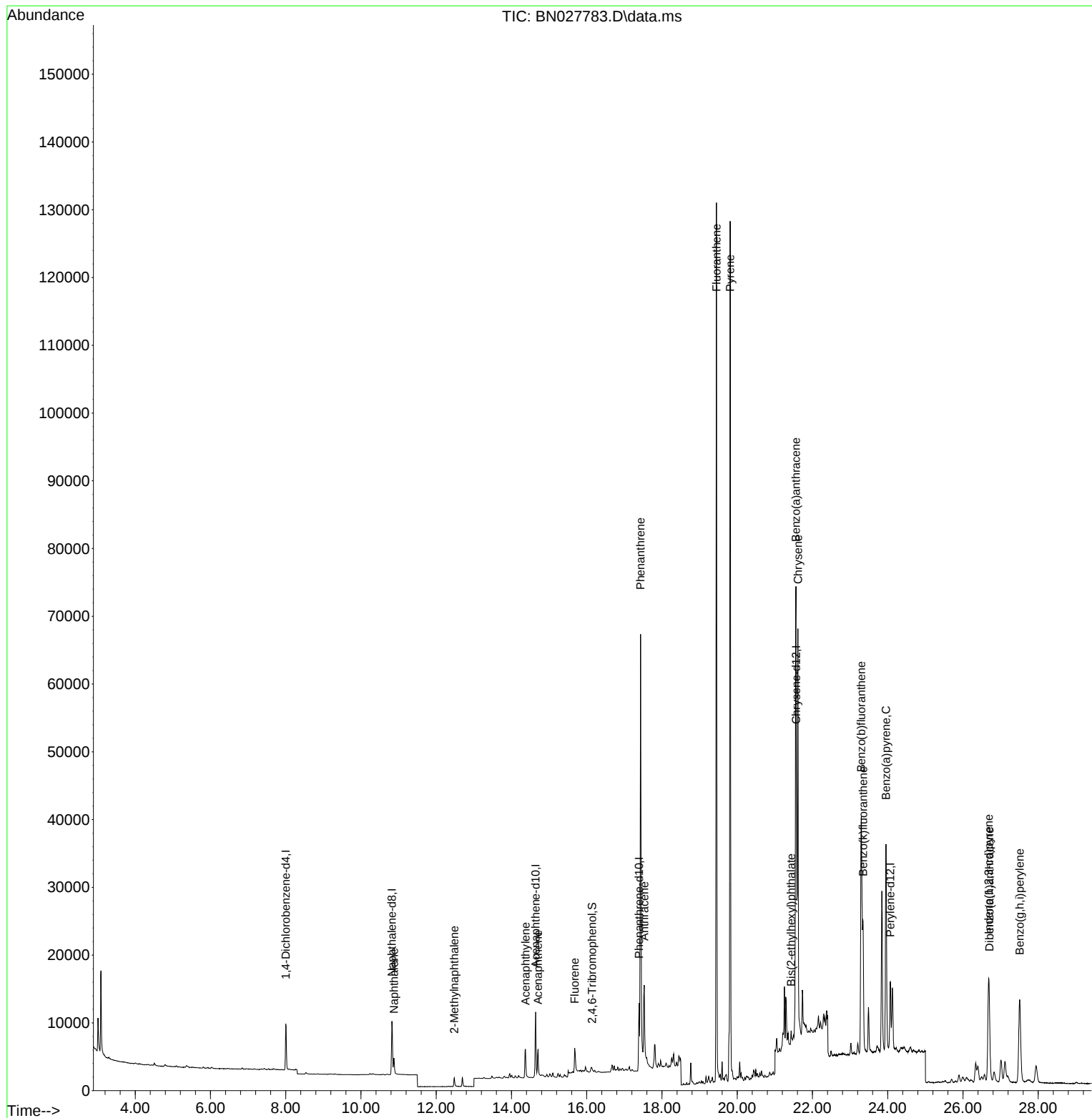
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092123\
Data File : BN027783.D
Acq On : 21 Sep 2023 10:48
Operator : MA/JU
Sample : 04367-03DL 50X
Misc :
ALS Vial : 4 Sample Multiplier: 1

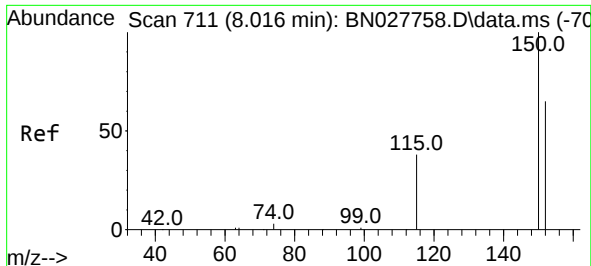
Instrument :
BNA_N
ClientSampleId :
PILE-3DL

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Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023

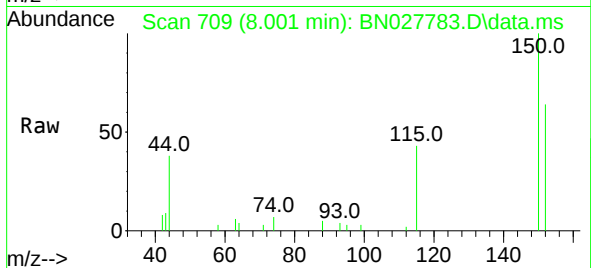
Quant Time: Sep 21 12:20:46 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 20 13:45:42 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.001 min Scan# 709
Delta R.T. -0.015 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

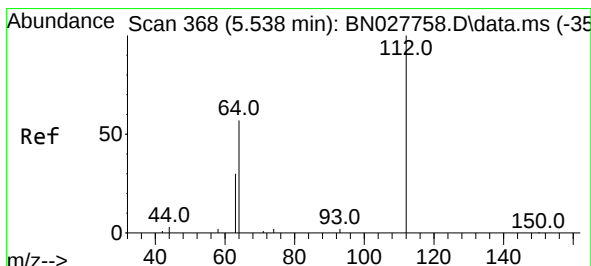
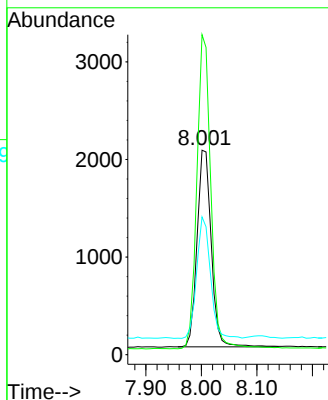
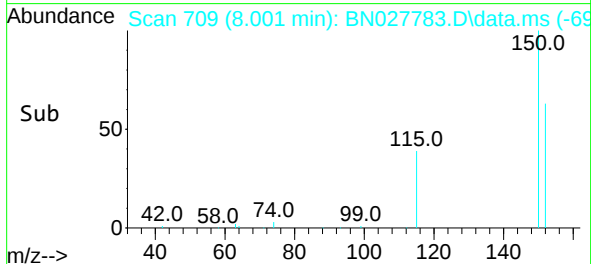
Instrument :
BNA_N
ClientSampleId :
PILE-3DL



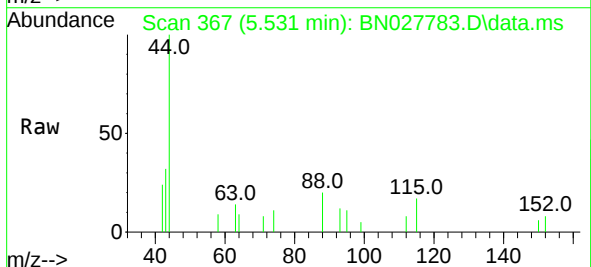
Tgt Ion:152 Resp: 358
Ion Ratio Lower Upper
152 100
150 156.5 120.2 180.2
115 67.4 54.5 81.7

Manual Integrations
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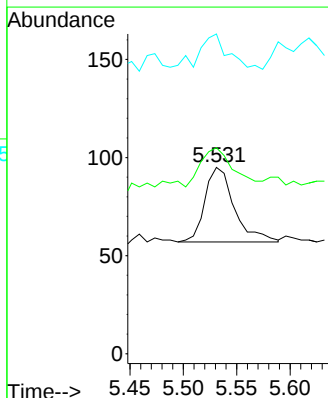
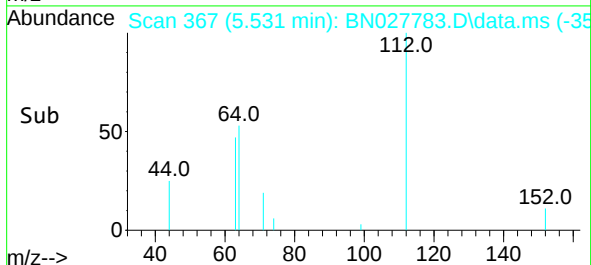
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023

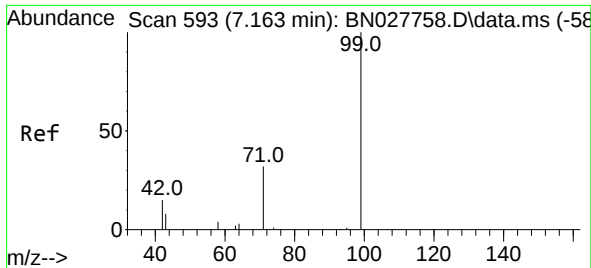


#4
2-Fluorophenol
Concen: 0.008 ng
RT: 5.531 min Scan# 367
Delta R.T. -0.007 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48



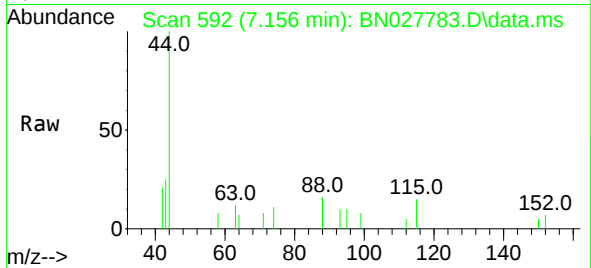
Tgt Ion:112 Resp: 73
Ion Ratio Lower Upper
112 100
64 57.5 46.1 69.1
63 46.6 24.0 36.0#





#5
Phenol-d6
Concen: 0.008 ng
RT: 7.156 min Scan# 592
Delta R.T. -0.007 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

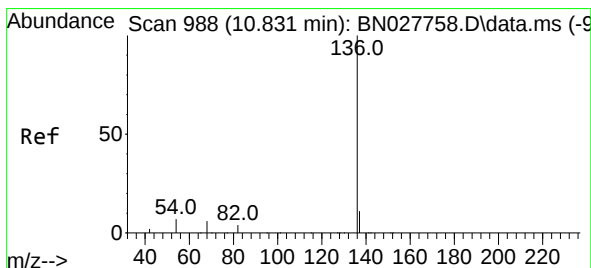
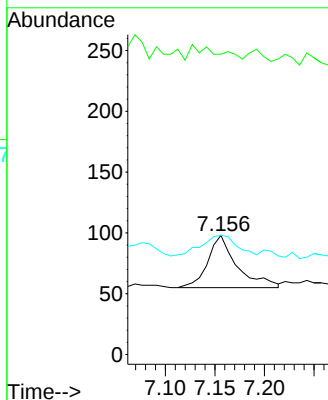
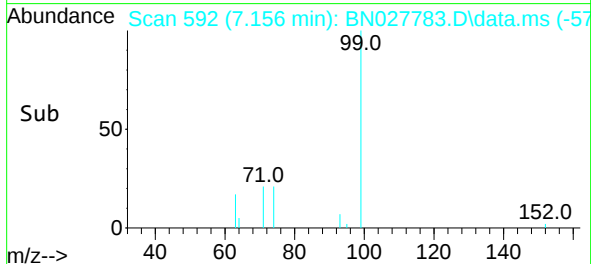
Instrument :
BNA_N
ClientSampleId :
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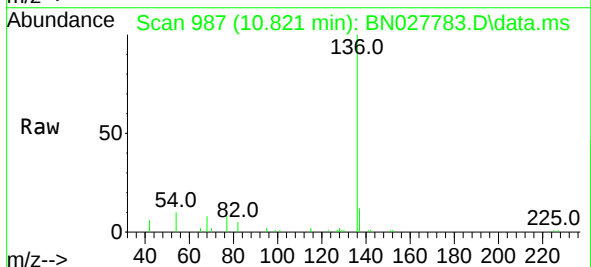
Tgt Ion: 99 Resp: 88
Ion Ratio Lower Upper
99 100
42 0.0 16.6 25.0
71 47.7 28.1 42.1

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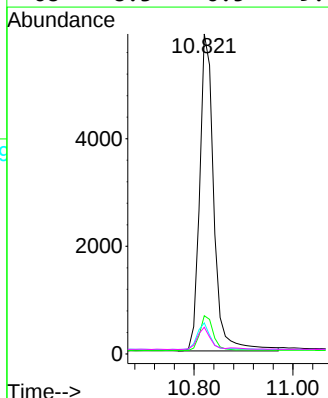
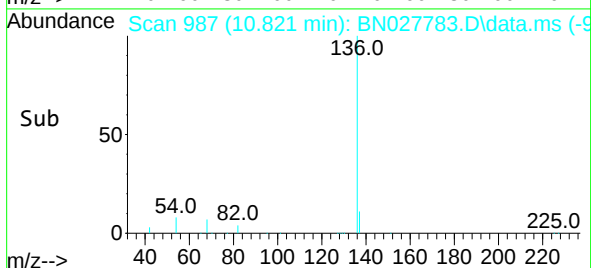
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023

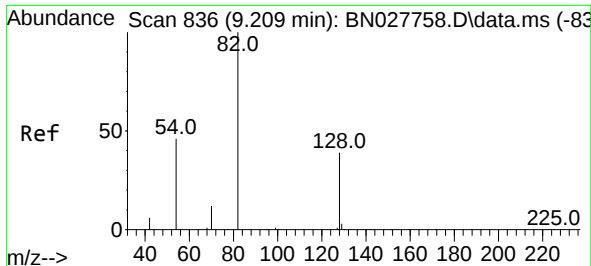


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.821 min Scan# 987
Delta R.T. -0.011 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48



Tgt Ion:136 Resp: 11724
Ion Ratio Lower Upper
136 100
137 11.9 10.1 15.1
54 9.7 7.4 11.0
68 8.3 6.5 9.7





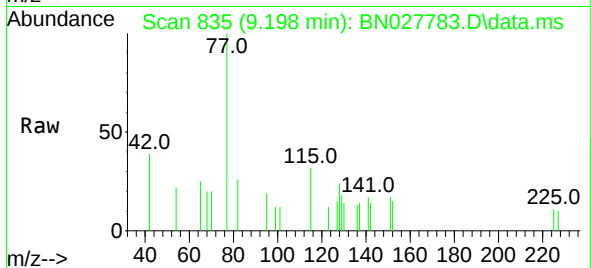
#8
Nitrobenzene-d5
Concen: 0.008 ng
RT: 9.198 min Scan# 81
Delta R.T. -0.011 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

Instrument :

BNA_N

ClientSampleId :

PILE-3DL

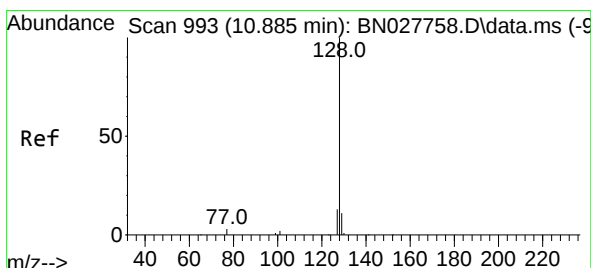
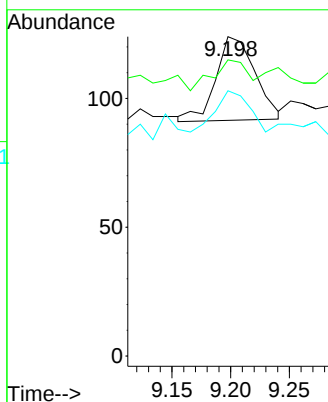
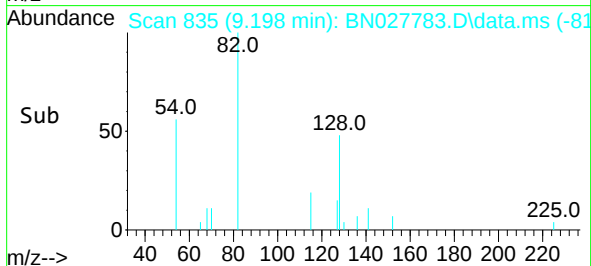


Tgt Ion: 82 Resp: 70
Ion Ratio Lower Upper
82 100
128 92.7 36.8 55.2
54 83.1 39.9 59.9

Manual Integrations

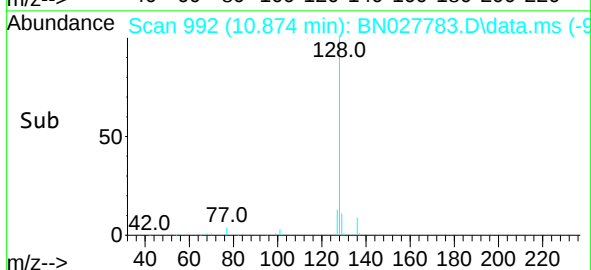
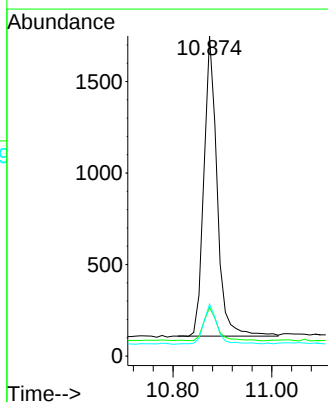
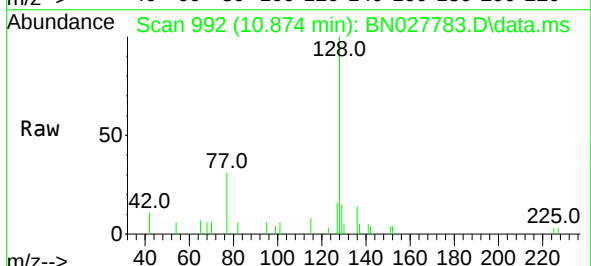
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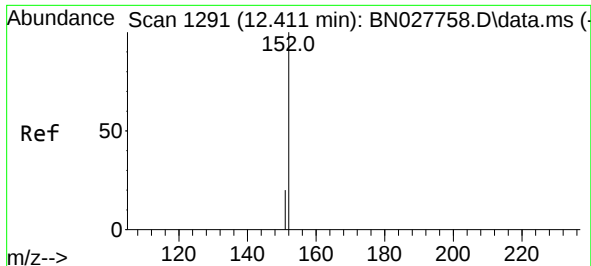
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023



#9
Naphthalene
Concen: 0.093 ng
RT: 10.874 min Scan# 992
Delta R.T. -0.011 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

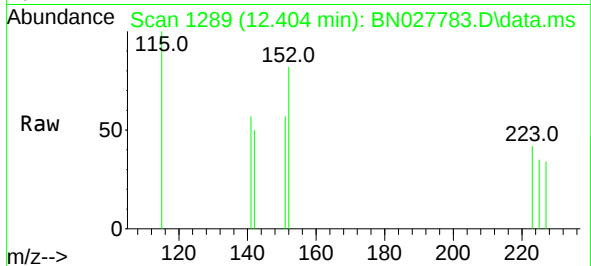
Tgt Ion:128 Resp: 3035
Ion Ratio Lower Upper
128 100
129 15.2 10.2 15.2
127 16.2 11.1 16.7





#11
2-Methylnaphthalene-d10
Concen: 0.006 ng
RT: 12.404 min Scan# 1109
Delta R.T. -0.008 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

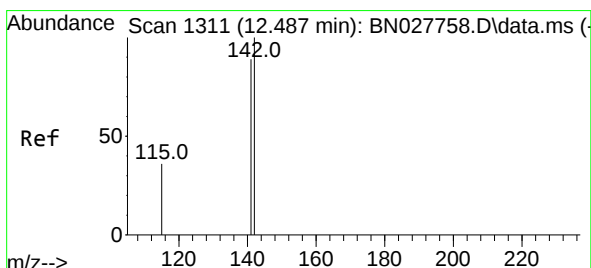
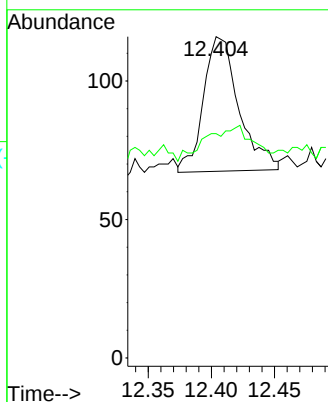
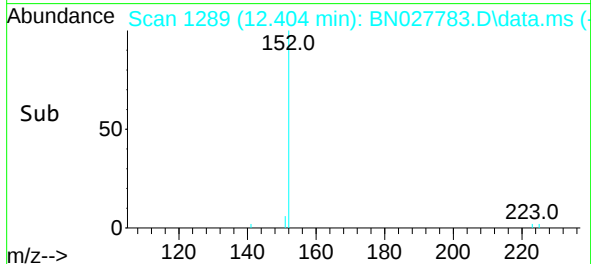
Instrument :
BNA_N
ClientSampleId :
PILE-3DL



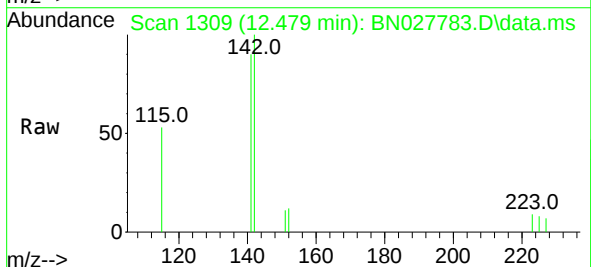
Tgt Ion:152 Resp: 95
Ion Ratio Lower Upper
152 100
151 34.7 15.6 23.4

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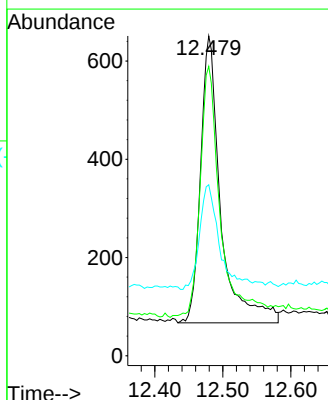
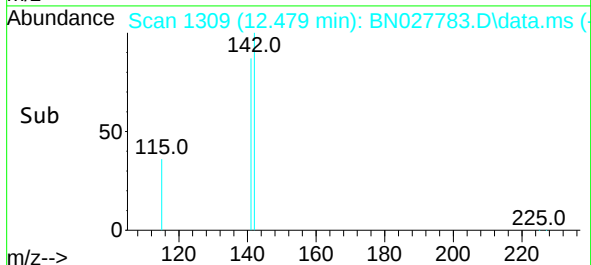
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023

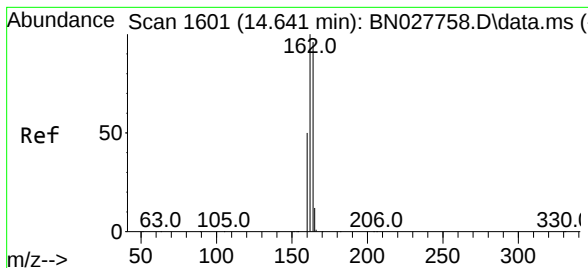


#12
2-Methylnaphthalene
Concen: 0.053 ng
RT: 12.479 min Scan# 1309
Delta R.T. -0.008 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48



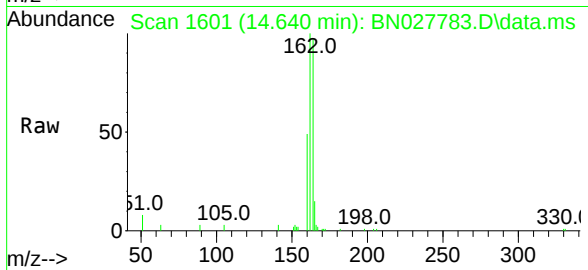
Tgt Ion:142 Resp: 1205
Ion Ratio Lower Upper
142 100
141 90.5 71.5 107.3
115 53.5 31.8 47.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.640 min Scan# 1601
Delta R.T. -0.000 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

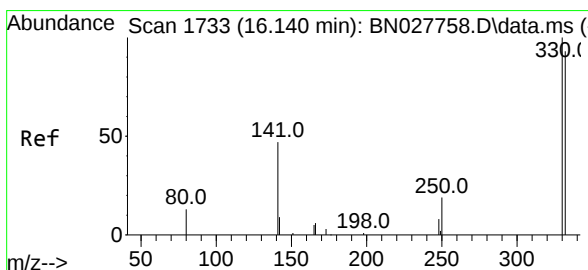
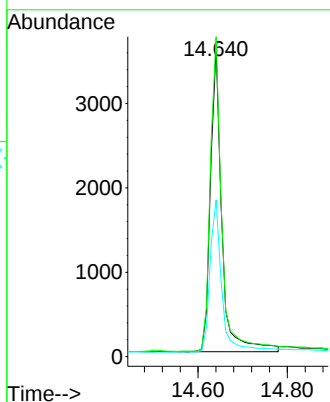
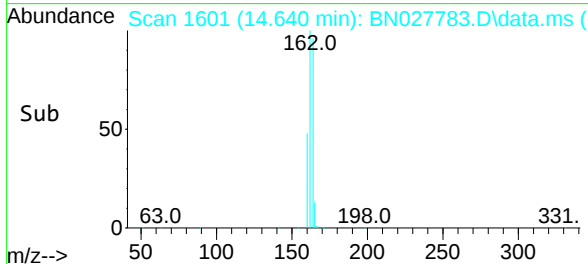
Instrument :
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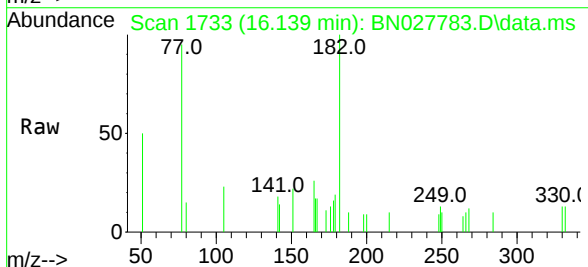
Tgt Ion:164 Resp: 639
Ion Ratio Lower Upper
164 100
162 103.6 83.6 125.4
160 50.8 42.6 64.0

Manual Integrations
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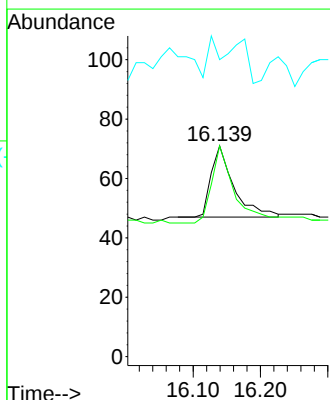
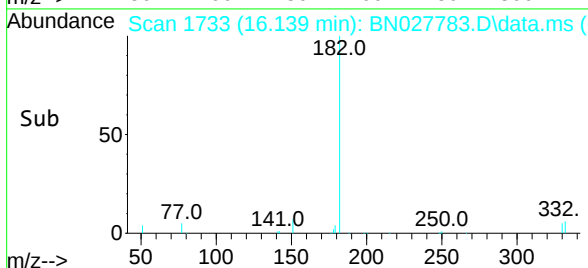
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023

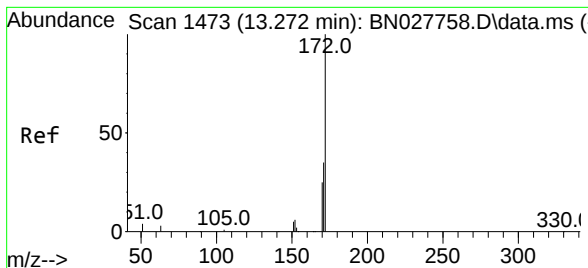


#14
2,4,6-Tribromophenol
Concen: 0.021 ng
RT: 16.139 min Scan# 1733
Delta R.T. -0.000 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48



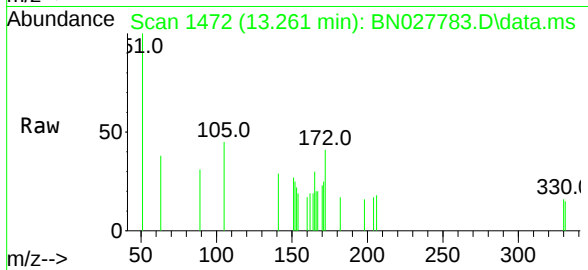
Tgt Ion:330 Resp: 57
Ion Ratio Lower Upper
330 100
332 107.0 77.0 115.4
141 26.3 38.1 57.1#





#15
2-Fluorobiphenyl
Concen: 0.008 ng
RT: 13.261 min Scan# 1472
Delta R.T. -0.011 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

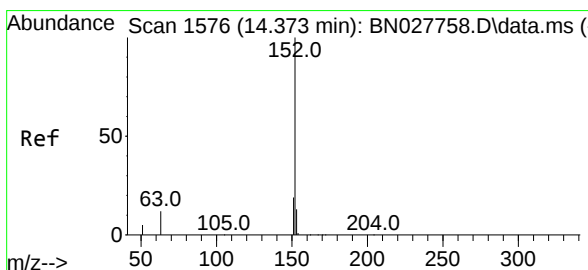
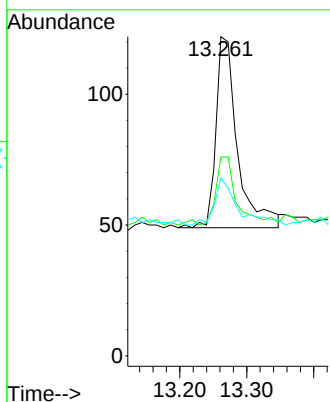
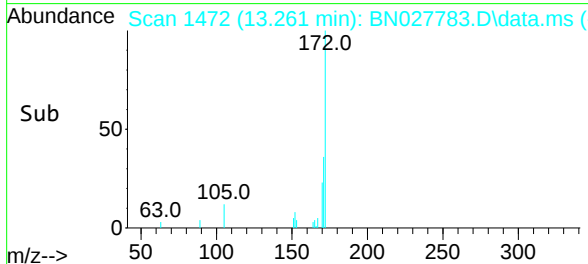
Instrument :
BNA_N
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PILE-3DL



Tgt Ion:172 Resp: 164
Ion Ratio Lower Upper
172 100
171 62.3 29.3 43.9
170 55.7 20.8 31.2

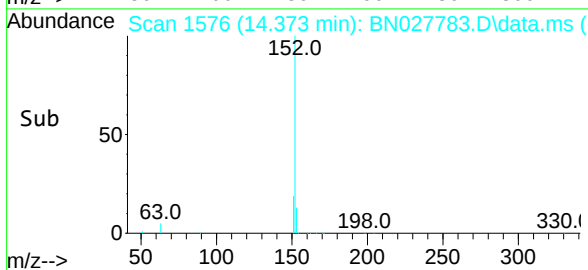
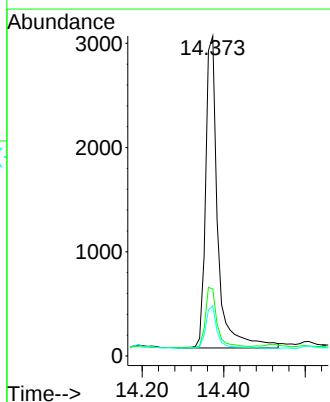
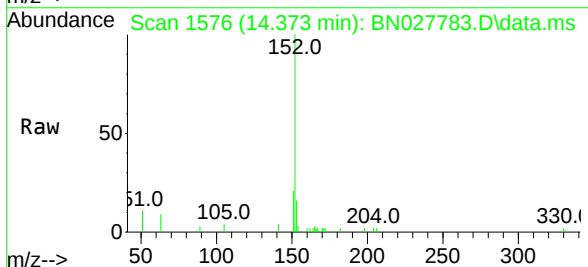
Manual Integrations
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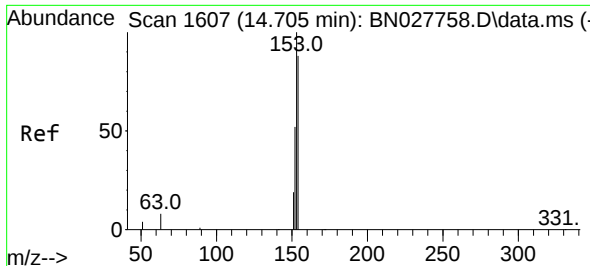
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023



#16
Acenaphthylene
Concen: 0.228 ng
RT: 14.373 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

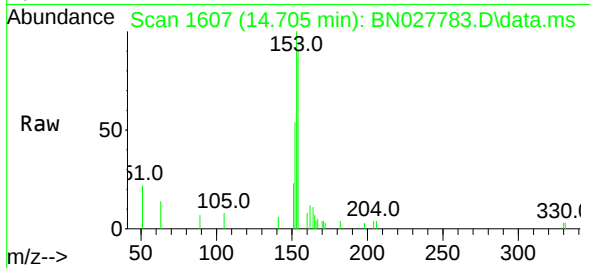
Tgt Ion:152 Resp: 6224
Ion Ratio Lower Upper
152 100
151 18.9 15.4 23.2
153 12.8 10.6 15.8





#17
Acenaphthene
Concen: 0.114 ng
RT: 14.705 min Scan# 1607
Delta R.T. -0.000 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

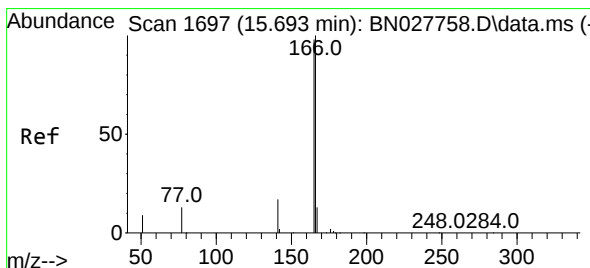
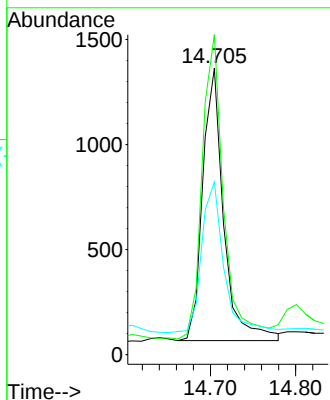
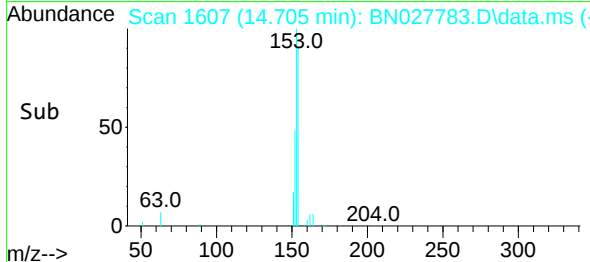
Instrument :
BNA_N
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Tgt Ion:154 Resp: 2219
Ion Ratio Lower Upper
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153 113.0 91.0 136.6
152 58.3 47.4 71.2

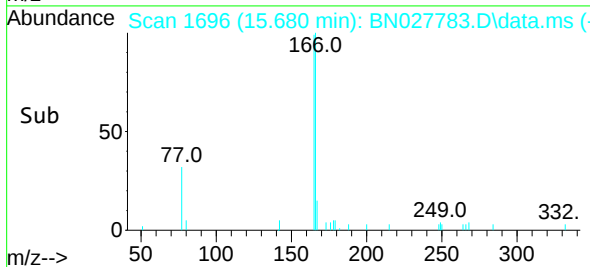
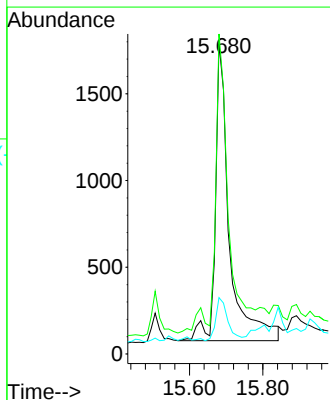
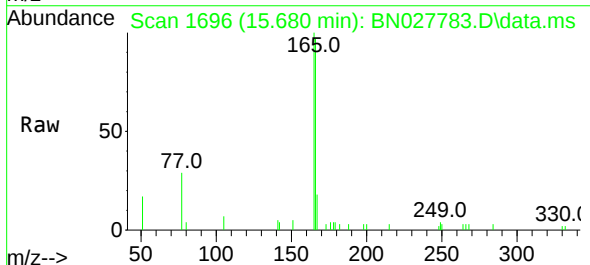
Manual Integrations
APPROVED

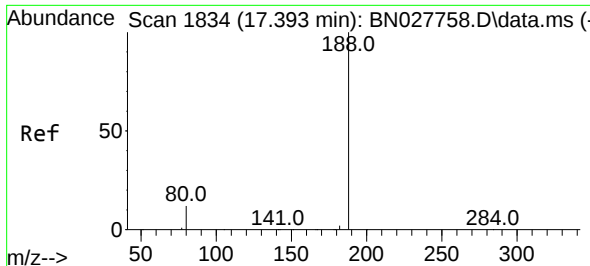
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023



#18
Fluorene
Concen: 0.161 ng
RT: 15.680 min Scan# 1696
Delta R.T. -0.013 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

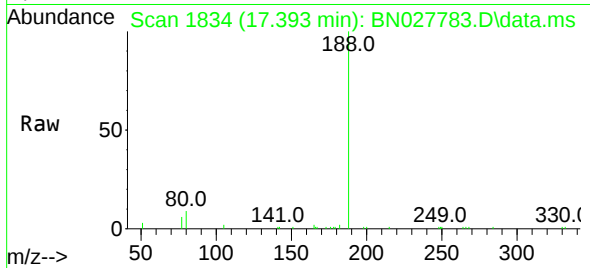
Tgt Ion:166 Resp: 4537
Ion Ratio Lower Upper
166 100
165 102.3 79.3 118.9
167 11.6 10.6 16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.393 min Scan# 1834
Delta R.T. -0.000 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

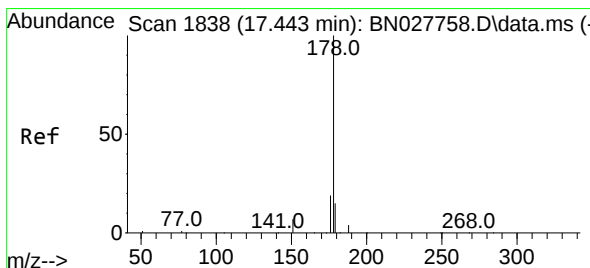
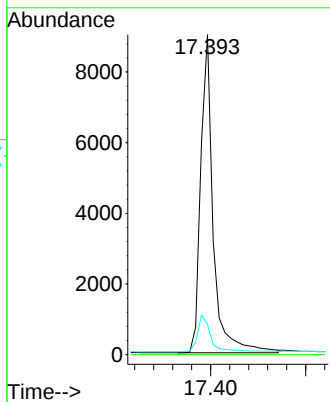
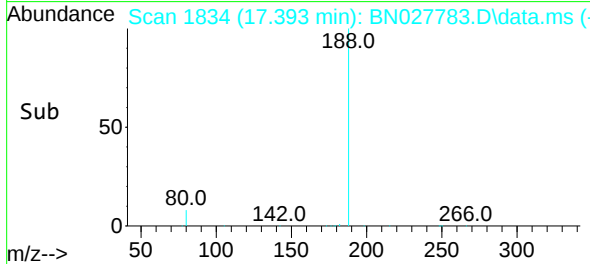
Instrument :
BNA_N
ClientSampleId :
PILE-3DL



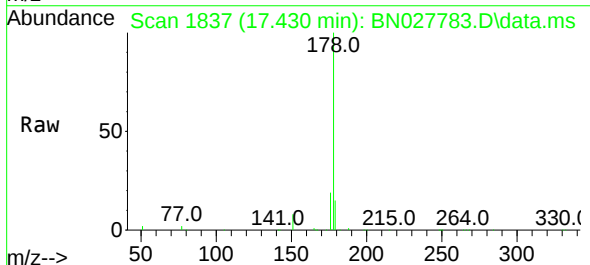
Tgt Ion:188 Resp: 16478
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.4 10.6 16.0

Manual Integrations
APPROVED

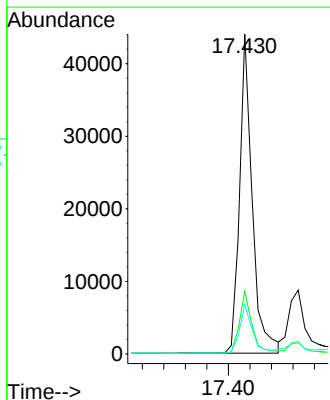
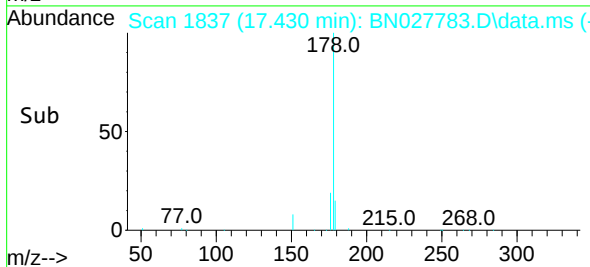
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023

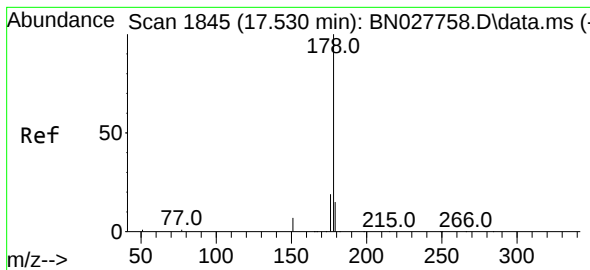


#25
Phenanthrene
Concen: 1.486 ng
RT: 17.430 min Scan# 1837
Delta R.T. -0.013 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48



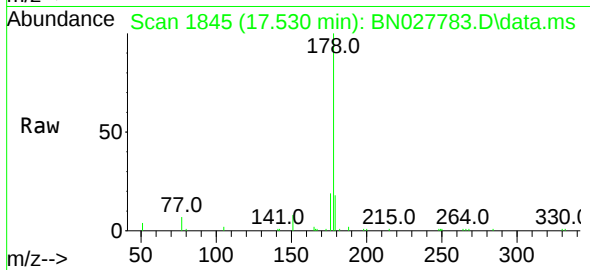
Tgt Ion:178 Resp: 71631
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 15.3 12.3 18.5





#26
 Anthracene
 Concen: 0.455 ng
 RT: 17.530 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN027783.D
 Acq: 21 Sep 2023 10:48

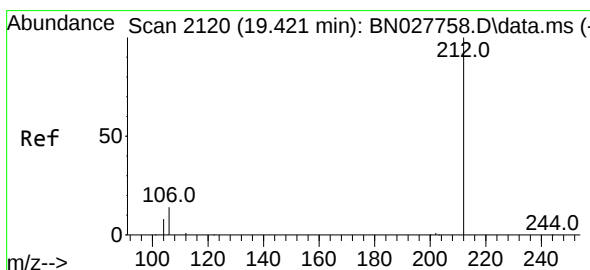
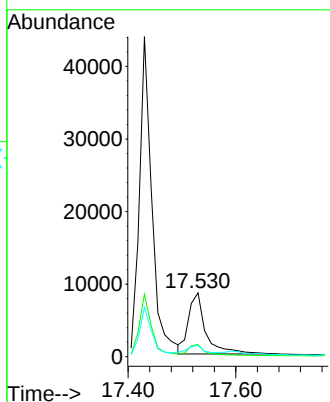
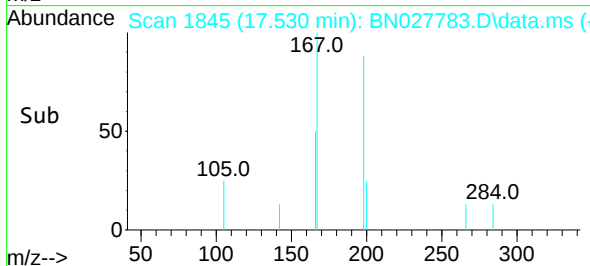
Instrument :
 BNA_N
 ClientSampleId :
 PILE-3DL



Tgt Ion:178 Resp: 18772
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.2 22.8
 179 13.4 12.2 18.2

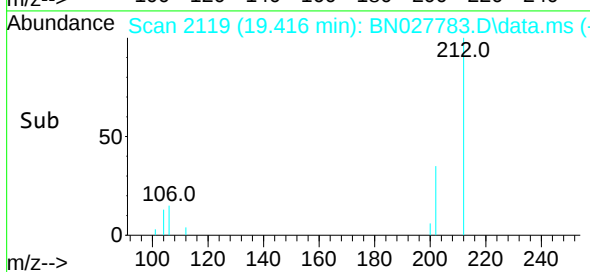
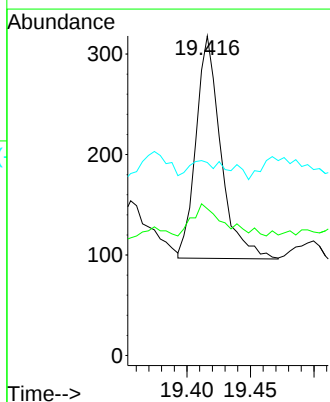
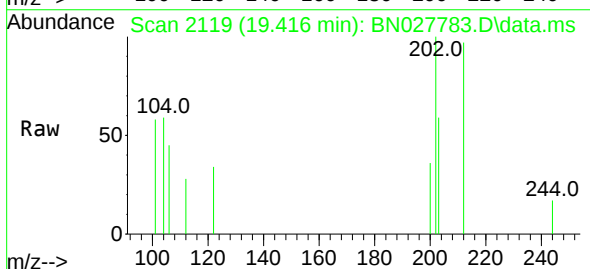
Manual Integrations
 APPROVED

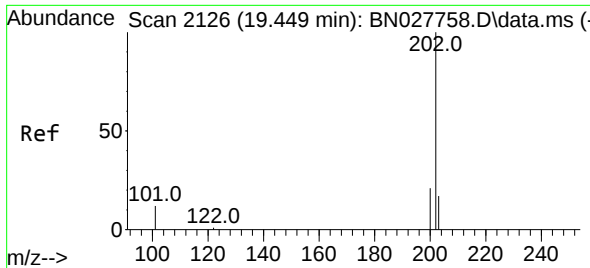
Reviewed By :Yogesh Patel 09/22/2023
 Supervised By :mohammad ahmed 09/22/2023



#27
 Fluoranthene-d10
 Concen: 0.007 ng
 RT: 19.416 min Scan# 2119
 Delta R.T. -0.005 min
 Lab File: BN027783.D
 Acq: 21 Sep 2023 10:48

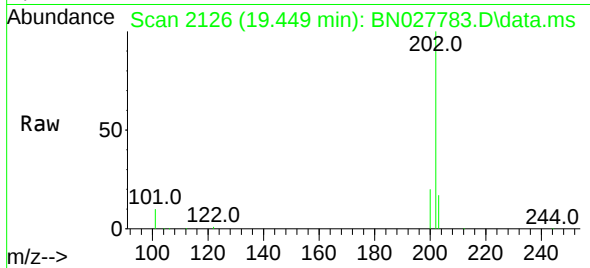
Tgt Ion:212 Resp: 302
 Ion Ratio Lower Upper
 212 100
 106 18.9 12.2 18.2#
 104 15.2 7.0 10.4#





#28
Fluoranthene
Concen: 2.052 ng
RT: 19.449 min Scan# 2126
Delta R.T. -0.000 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

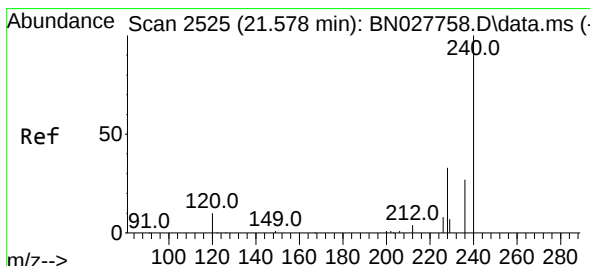
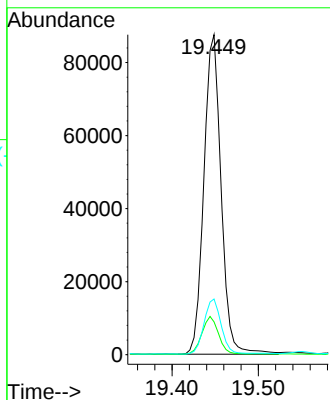
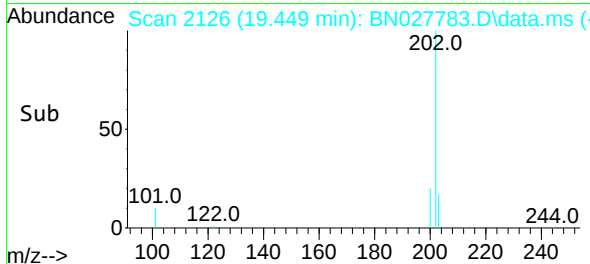
Instrument :
BNA_N
ClientSampleId :
PILE-3DL



Tgt Ion:202 Resp: 121580
Ion Ratio Lower Upper
202 100
101 11.4 9.6 14.4
203 17.2 13.8 20.6

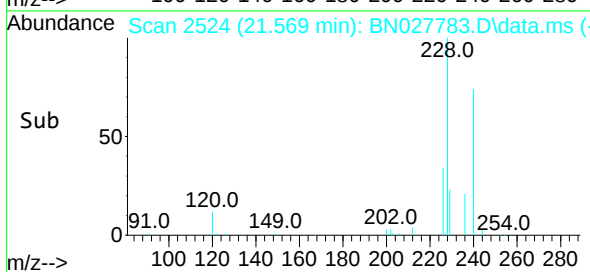
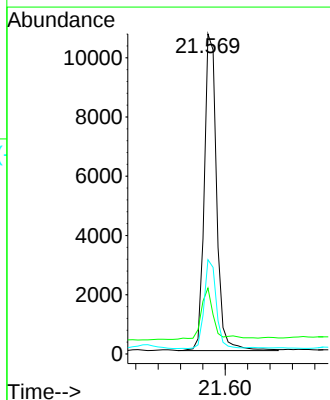
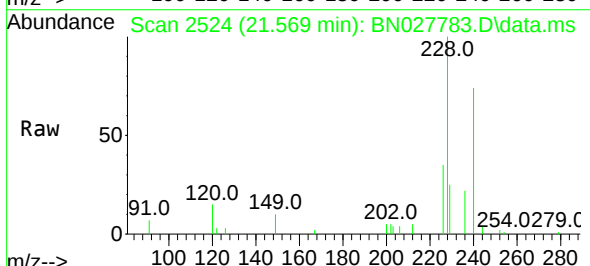
Manual Integrations
APPROVED

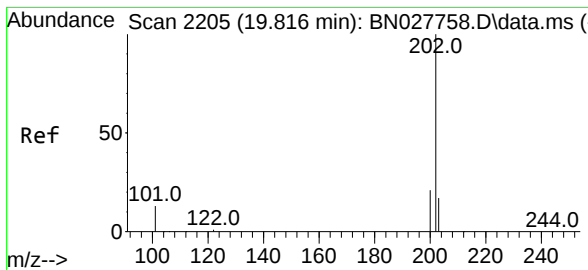
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.569 min Scan# 2524
Delta R.T. -0.009 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

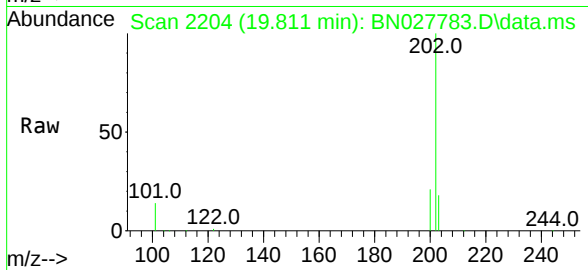
Tgt Ion:240 Resp: 16361
Ion Ratio Lower Upper
240 100
120 20.6 11.2 16.8#
236 29.5 22.8 34.2





#30
Pyrene
Concen: 1.996 ng
RT: 19.811 min Scan# 211
Delta R.T. -0.005 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

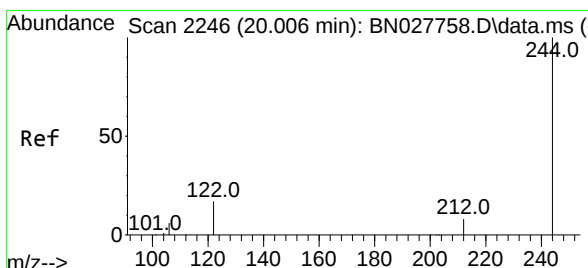
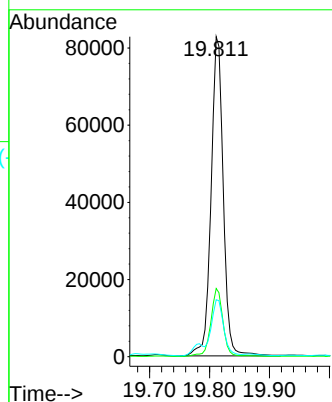
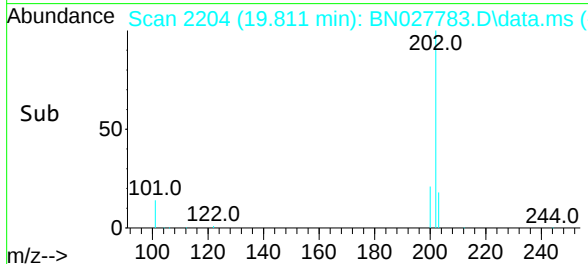
Instrument :
BNA_N
ClientSampleId :
PILE-3DL



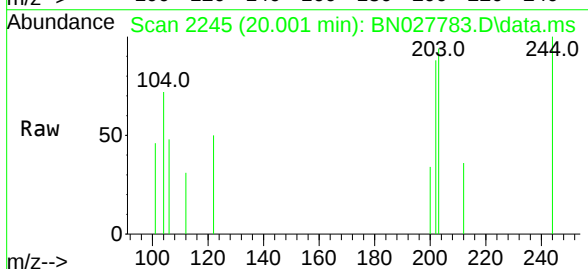
Tgt Ion:202 Resp: 11733
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.4 14.2 21.4

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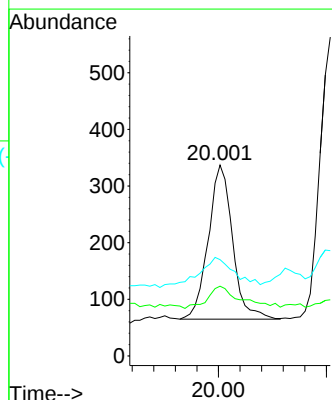
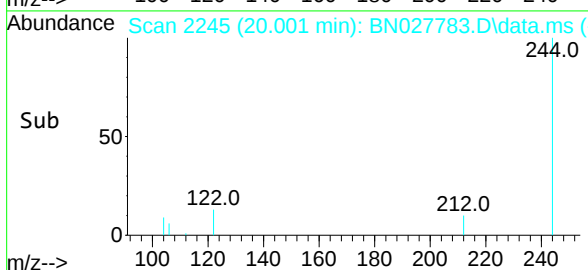
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023

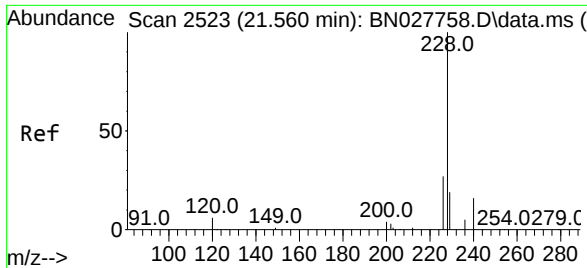


#31
Terphenyl-d14
Concen: 0.013 ng
RT: 20.001 min Scan# 2245
Delta R.T. -0.005 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48



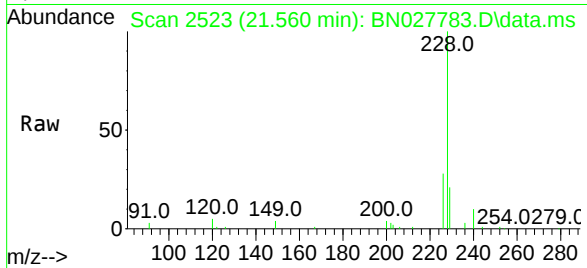
Tgt Ion:244 Resp: 425
Ion Ratio Lower Upper
244 100
212 36.5 7.5 11.3#
122 50.4 13.9 20.9#





#32
Benzo(a)anthracene
Concen: 1.089 ng
RT: 21.560 min Scan# 21560
Delta R.T. -0.000 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

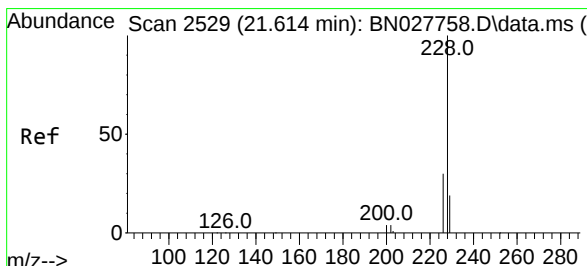
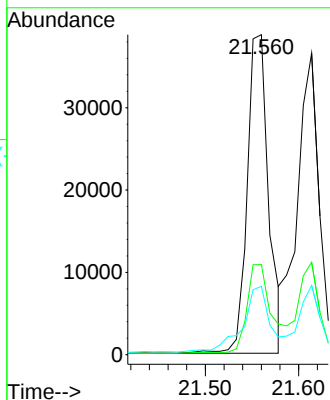
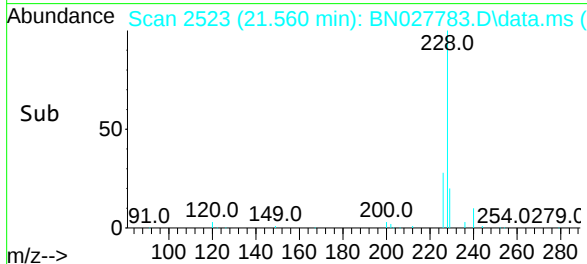
Instrument :
BNA_N
ClientSampleId :
PILE-3DL



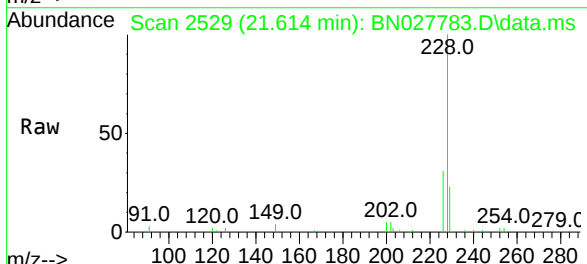
Tgt Ion:228 Resp: 61810
Ion Ratio Lower Upper
228 100
226 28.2 21.9 32.9
229 21.4 15.8 23.6

Manual Integrations
APPROVED

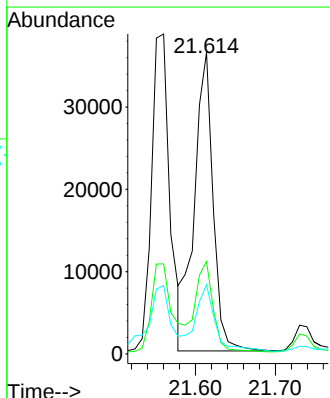
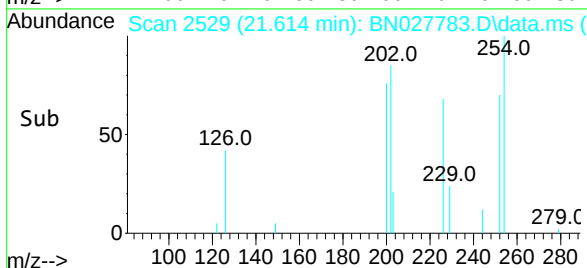
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023

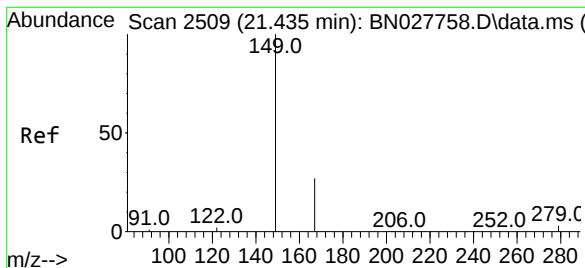


#33
Chrysene
Concen: 0.952 ng
RT: 21.614 min Scan# 2529
Delta R.T. -0.000 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48



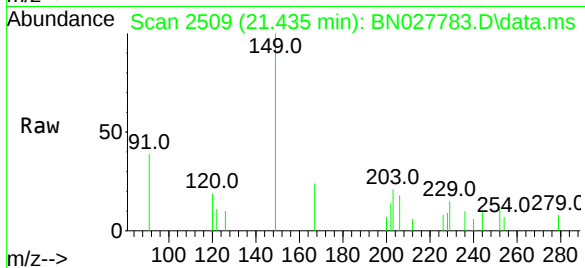
Tgt Ion:228 Resp: 59514
Ion Ratio Lower Upper
228 100
226 30.6 24.2 36.4
229 22.9 15.7 23.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.066 ng
RT: 21.435 min Scan# 2149
Delta R.T. -0.000 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

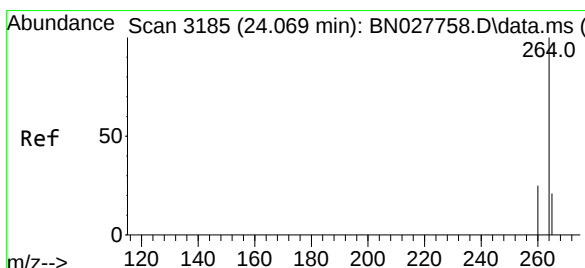
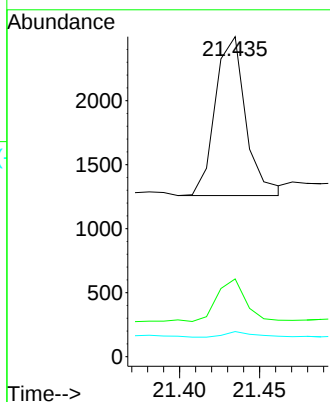
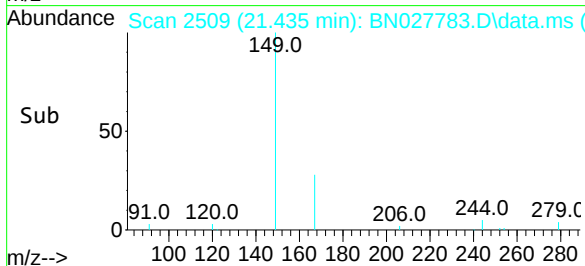
Instrument :
BNA_N
ClientSampleId :
PILE-3DL



Tgt Ion:149 Resp: 165
Ion Ratio Lower Upper
149 100
167 33.7 21.4 32.2
279 3.5 2.3 3.5

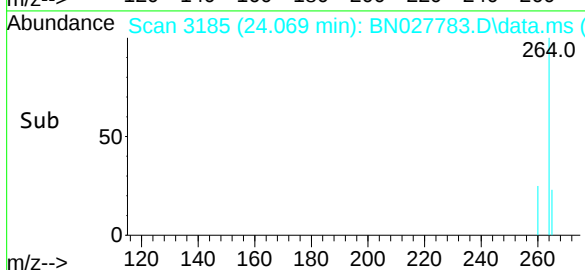
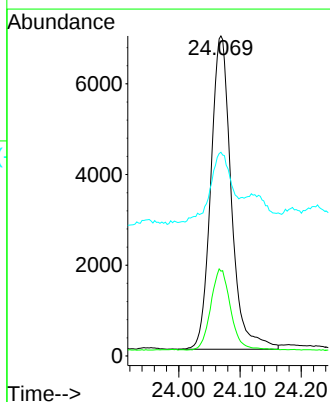
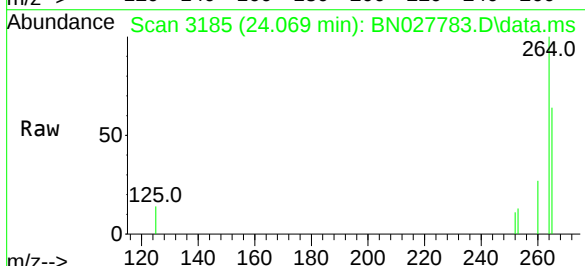
Manual Integrations
APPROVED

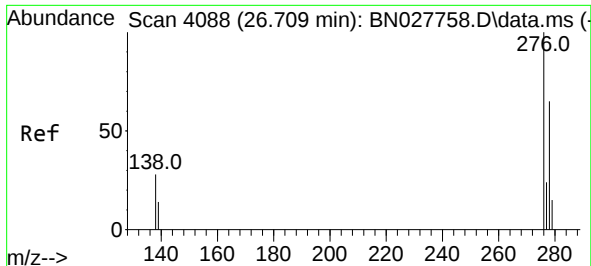
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023



#35
Perylene-d12
Concen: 0.400 ng
RT: 24.069 min Scan# 3185
Delta R.T. -0.000 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

Tgt Ion:264 Resp: 16026
Ion Ratio Lower Upper
264 100
260 26.5 21.0 31.6
265 63.7 60.5 90.7





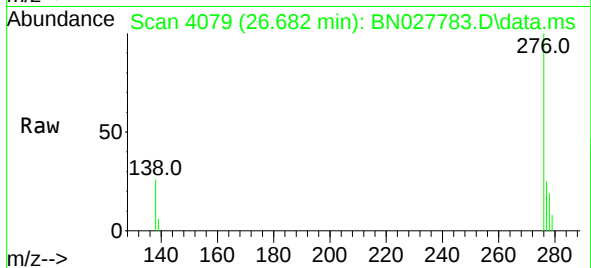
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.427 ng
RT: 26.682 min Scan# 4088
Delta R.T. -0.026 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

Instrument :

BNA_N

ClientSampleId :

PILE-3DL

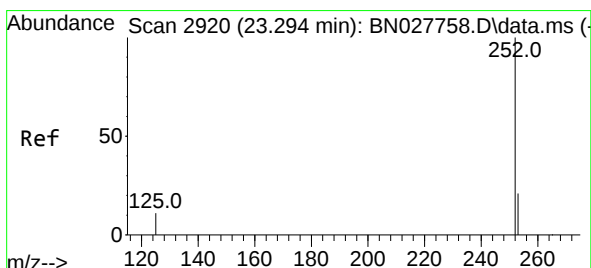
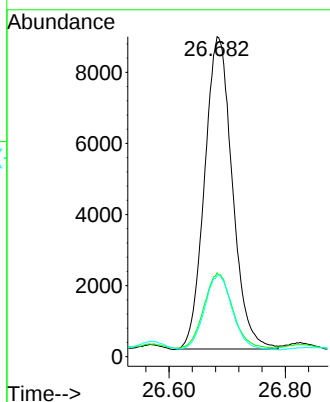
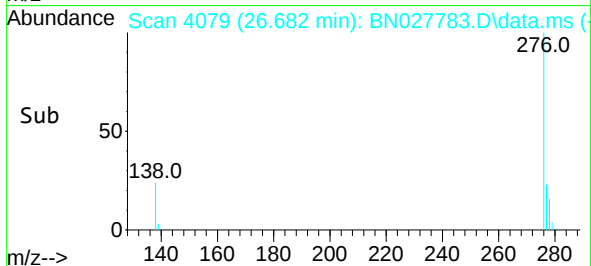


Tgt Ion:276 Resp: 29120
Ion Ratio Lower Upper
276 100
138 24.4 23.5 35.3
277 24.2 19.9 29.9

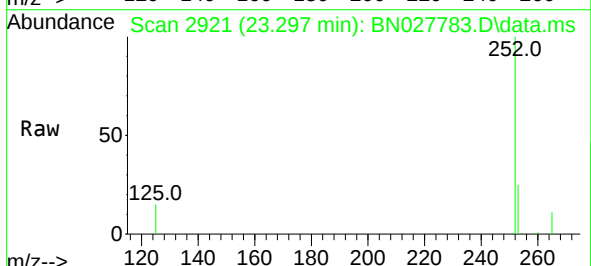
Manual Integrations

APPROVED

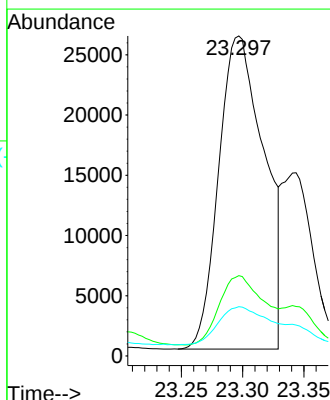
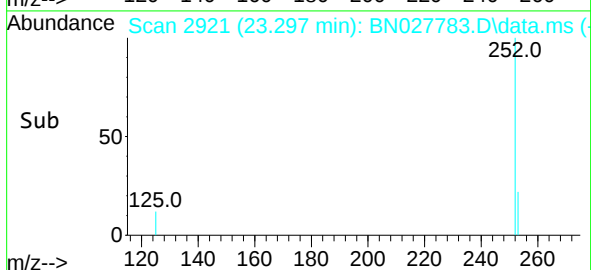
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023

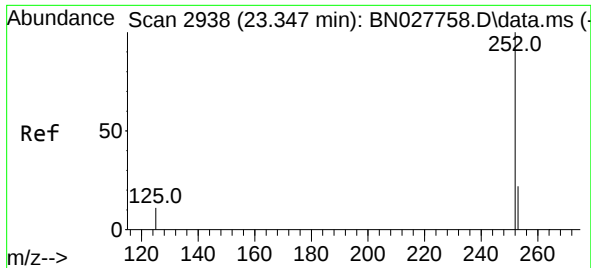


#37
Benzo(b)fluoranthene
Concen: 1.057 ng
RT: 23.297 min Scan# 2921
Delta R.T. 0.003 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48



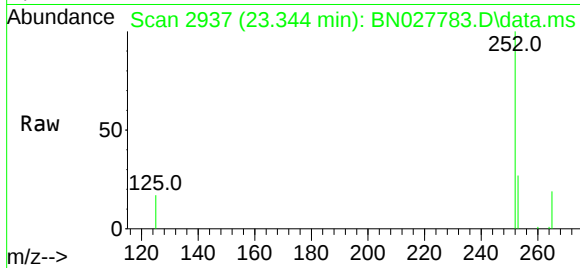
Tgt Ion:252 Resp: 66959
Ion Ratio Lower Upper
252 100
253 25.1 20.8 31.2
125 15.4 13.5 20.3





#38
Benzo(k)fluoranthene
Concen: 0.399 ng m
RT: 23.344 min Scan# 2938
Delta R.T. -0.003 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

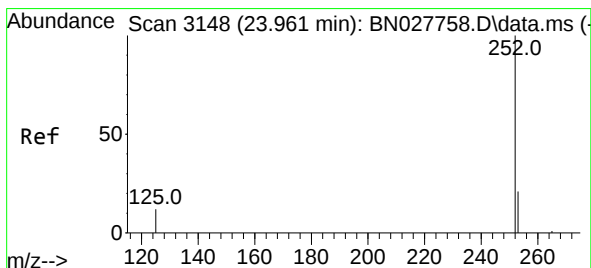
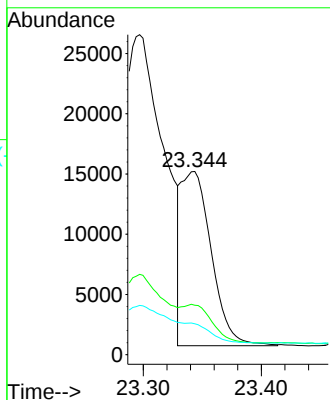
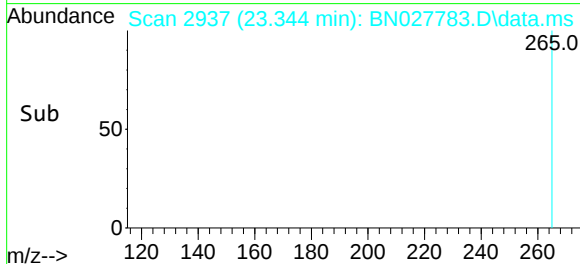
Instrument :
BNA_N
ClientSampleId :
PILE-3DL



Tgt Ion:252 Resp: 2566
Ion Ratio Lower Upper
252 100
253 27.0 21.2 31.8
125 16.9 13.8 20.6

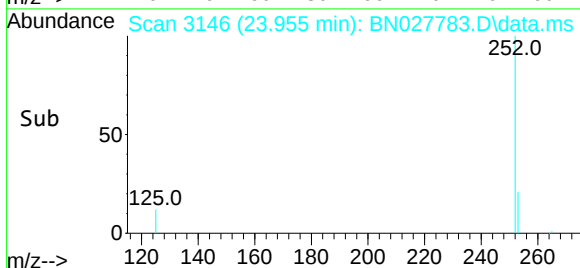
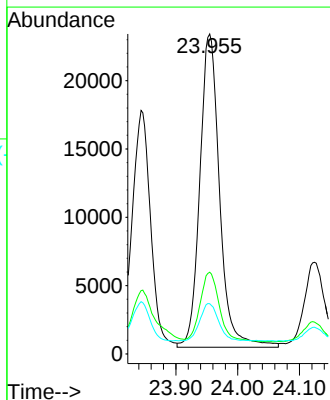
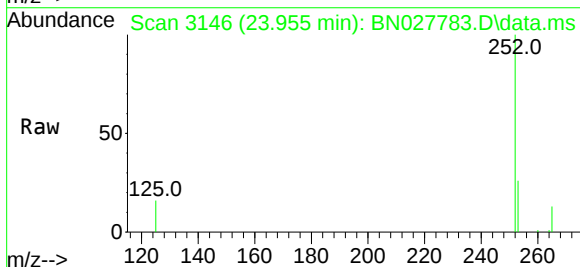
Manual Integrations
APPROVED

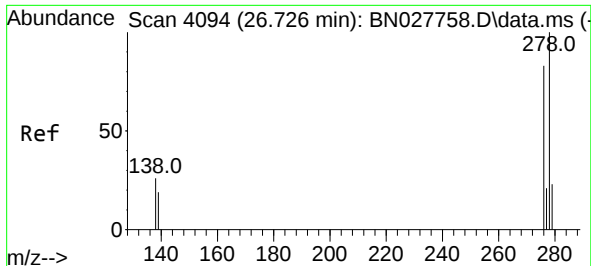
Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023



#39
Benzo(a)pyrene
Concen: 0.887 ng m
RT: 23.955 min Scan# 3146
Delta R.T. -0.006 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

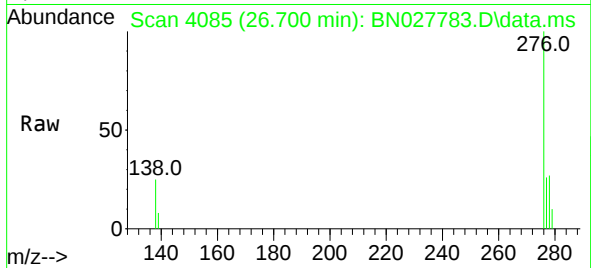
Tgt Ion:252 Resp: 51053
Ion Ratio Lower Upper
252 100
253 25.5 22.6 33.8
125 15.7 16.5 24.7#





#40
Dibenzo(a,h)anthracene
Concen: 0.130 ng m
RT: 26.700 min Scan# 4094
Delta R.T. -0.026 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

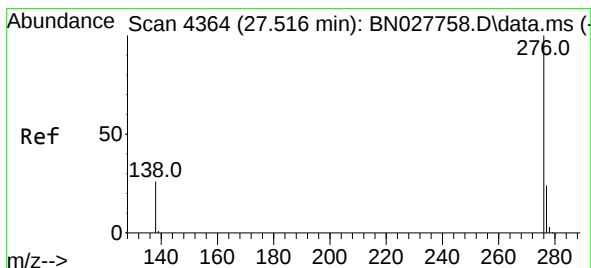
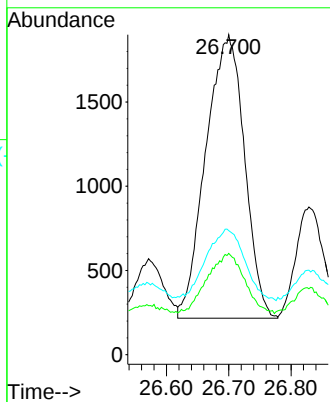
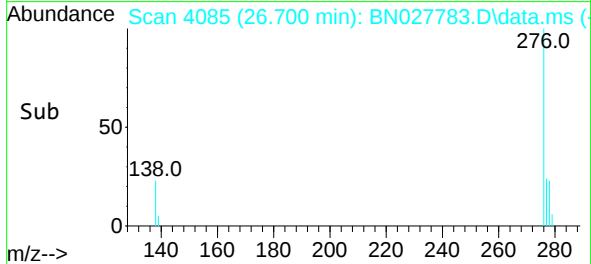
Instrument :
BNA_N
ClientSampleId :
PILE-3DL



Tgt Ion:278 Resp: 7244
Ion Ratio Lower Upper
278 100
139 31.6 17.1 25.7
279 38.7 22.2 33.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/22/2023
Supervised By :mohammad ahmed 09/22/2023



#41
Benzo(g,h,i)perylene
Concen: 0.484 ng
RT: 27.507 min Scan# 4361
Delta R.T. -0.009 min
Lab File: BN027783.D
Acq: 21 Sep 2023 10:48

Tgt Ion:276 Resp: 29800
Ion Ratio Lower Upper
276 100
277 25.4 20.4 30.6
138 27.1 21.9 32.9

