

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100722\
 Data File : BN022032.D
 Acq On : 07 Oct 2022 10:30
 Operator : CG/JU
 Sample : N4785-21
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 10/10/2022
 Supervised By : Jagrut Upadhyay 10/10/2022

Quant Time: Oct 10 03:15:02 2022
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN100322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 04 01:32:21 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.993	152	5911	0.400	ng	0.00
7) Naphthalene-d8	10.805	136	17352	0.400	ng	-0.01
13) Acenaphthene-d10	14.643	164	8064	0.400	ng	-0.01
19) Phenanthrene-d10	17.400	188	14038	0.400	ng	#-0.01
29) Chrysene-d12	21.600	240	8197	0.400	ng	# 0.00
35) Perylene-d12	24.078	264	5834	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.544	112	6534	0.477	ng	0.03
5) Phenol-d6	7.155	99	8287	0.466	ng	0.00
8) Nitrobenzene-d5	9.172	82	3704m	0.266	ng	0.01
11) 2-Methylnaphthalene-d10	12.402	152	8442	0.265	ng	0.00
14) 2,4,6-Tribromophenol	16.146	330	1096	0.356	ng	0.00
15) 2-Fluorobiphenyl	13.274	172	10043	0.285	ng	-0.01
27) Fluoranthene-d10	19.437	212	11724	0.314	ng	0.00
31) Terphenyl-d14	20.033	244	5627	0.341	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.859	128	284284	5.425	ng	99
16) Acenaphthylene	14.365	152	364661	9.504	ng	100
17) Acenaphthene	14.707	154	62390	2.313	ng	99
18) Fluorene	15.690	166	141867	4.362	ng	98
25) Phenanthrene	17.437	178	122101	2.530	ng	100
26) Anthracene	17.536	178	54085	1.396	ng	100
28) Fluoranthene	19.466	202	109305	2.114	ng	100
30) Pyrene	19.829	202	58595	1.628	ng	100
32) Benzo(a)anthracene	21.582	228	25505	0.827	ng	99
33) Chrysene	21.636	228	39716	1.161	ng	99
36) Indeno(1,2,3-cd)pyrene	26.677	276	92947	3.153	ng	99
37) Benzo(b)fluoranthene	23.315	252	65949	2.385	ng	# 92
38) Benzo(k)fluoranthene	23.365	252	68611m	2.492	ng	
39) Benzo(a)pyrene	23.967	252	78116	3.703	ng	# 84
40) Dibenzo(a,h)anthracene	26.701	278	81456	3.465	ng	95
41) Benzo(g,h,i)perylene	27.479	276	82345	3.245	ng	98

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

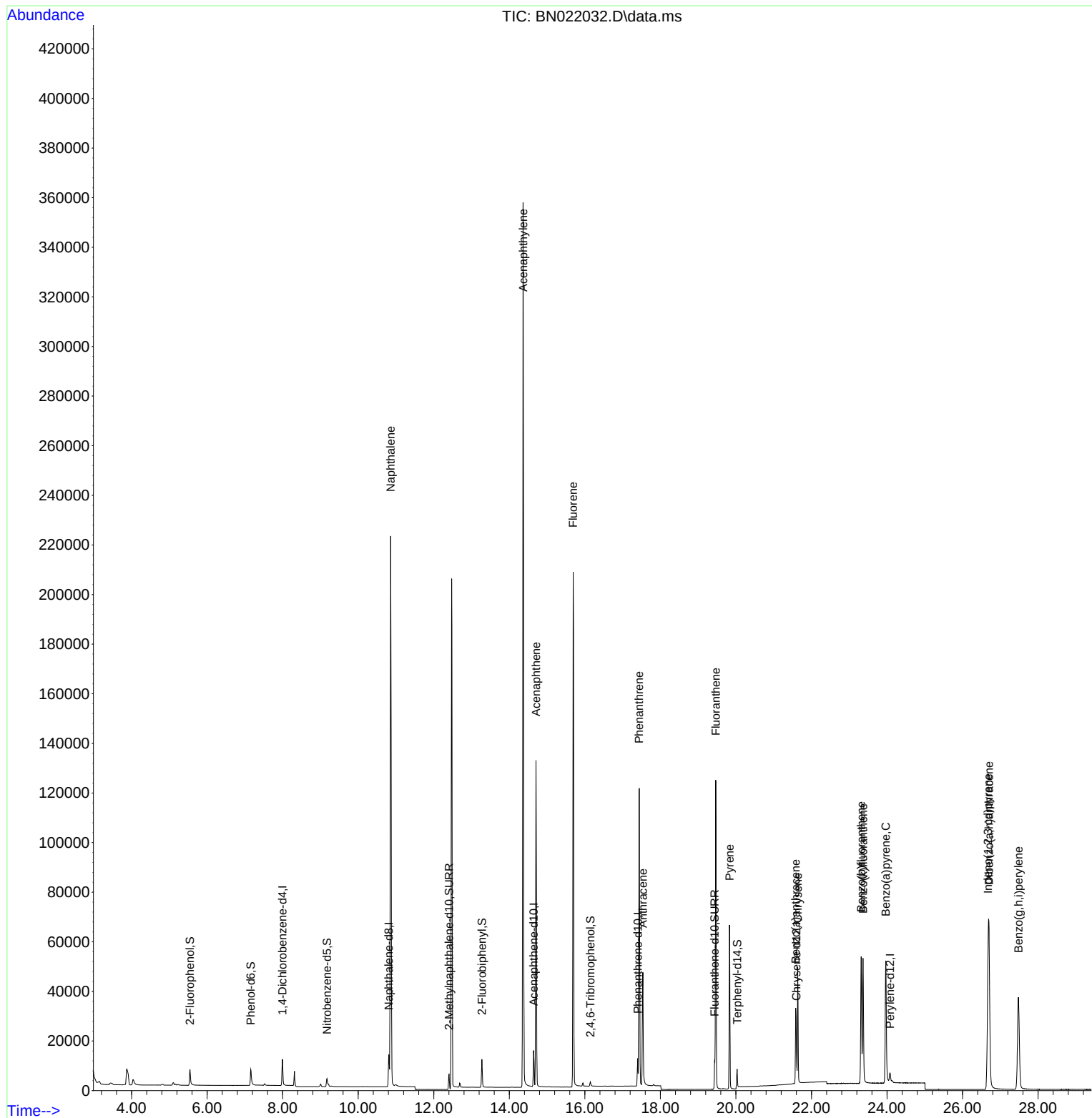
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100722\
Data File : BN022032.D
Acq On : 07 Oct 2022 10:30
Operator : CG/JU
Sample : N4785-21
Misc :
ALS Vial : 4 Sample Multiplier: 1

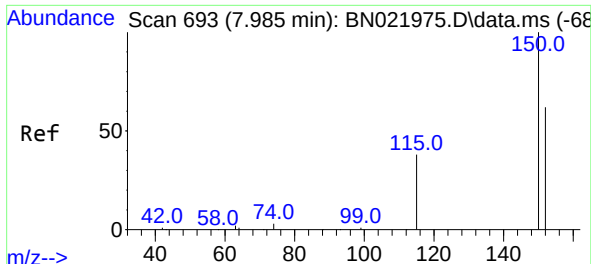
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 10/10/2022
Supervised By : Jagrut Upadhyay 10/10/2022

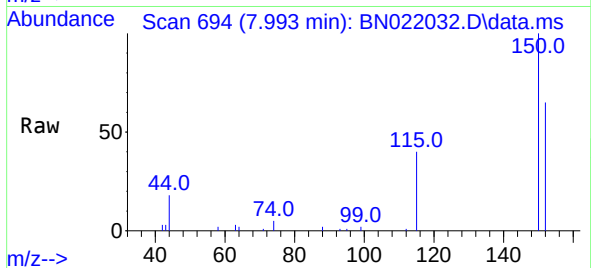
Quant Time: Oct 10 03:15:02 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN100322.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 04 01:32:21 2022
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.993 min Scan# 693
Delta R.T. 0.008 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

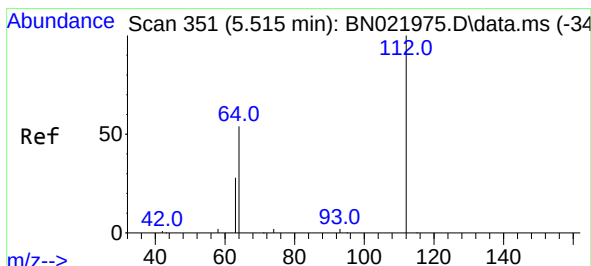
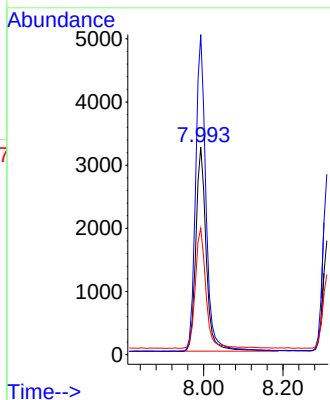
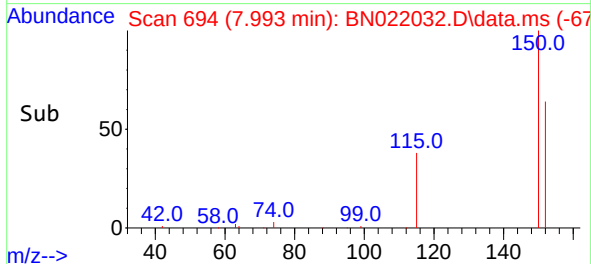
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



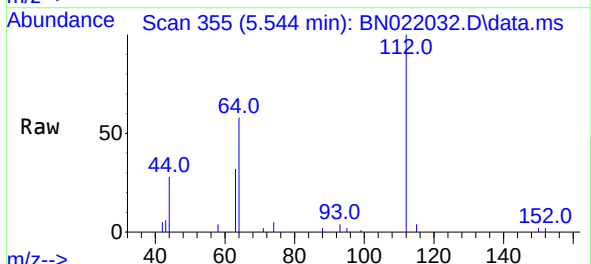
Tgt Ion:152 Resp: 591
Ion Ratio Lower Upper
152 100
150 154.2 127.2 190.8
115 61.0 51.4 77.0

Manual Integrations
APPROVED

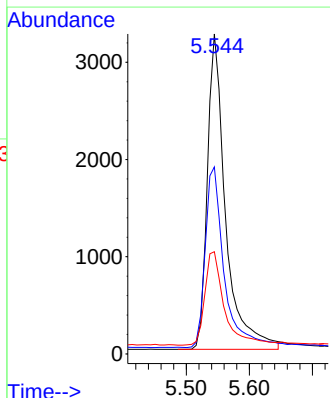
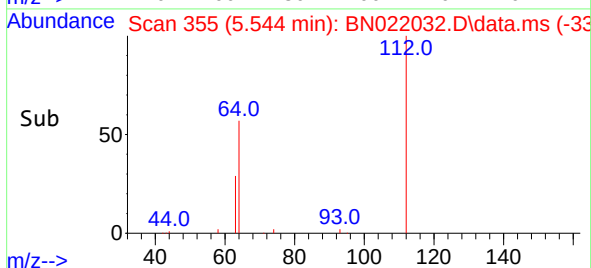
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

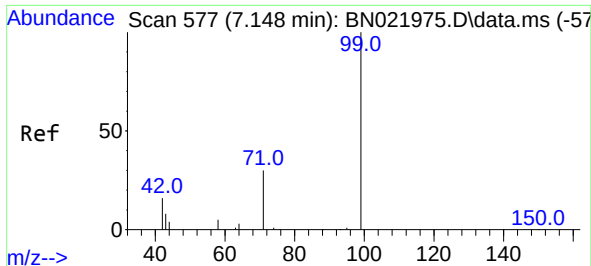


#4
2-Fluorophenol
Concen: 0.477 ng
RT: 5.544 min Scan# 355
Delta R.T. 0.029 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30



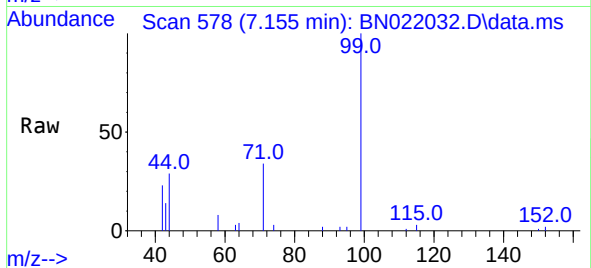
Tgt Ion:112 Resp: 6534
Ion Ratio Lower Upper
112 100
64 59.8 46.9 70.3
63 31.9 24.6 37.0





#5
Phenol-d6
Concen: 0.466 ng
RT: 7.155 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

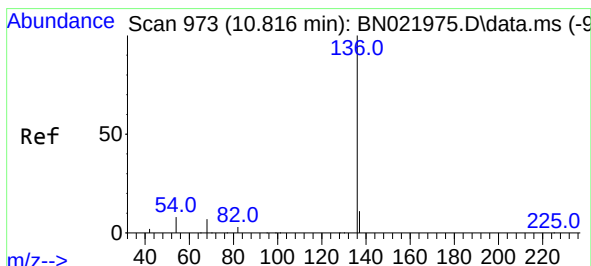
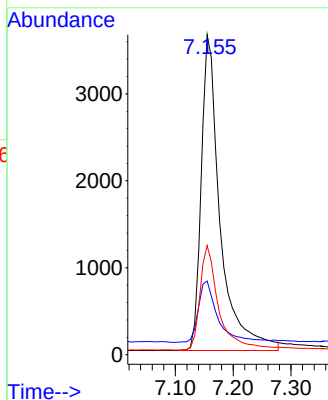
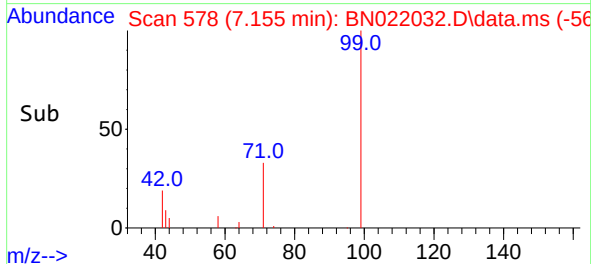
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



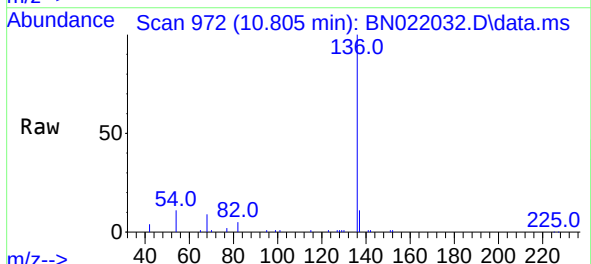
Tgt Ion: 99 Resp: 828
Ion Ratio Lower Upper
99 100
42 20.0 15.9 23.9
71 32.8 25.6 38.4

Manual Integrations
APPROVED

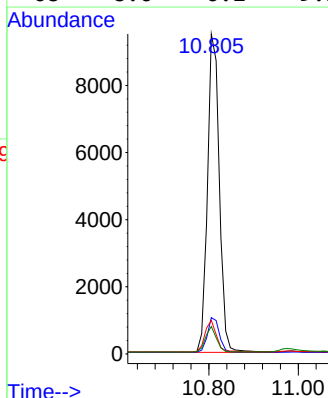
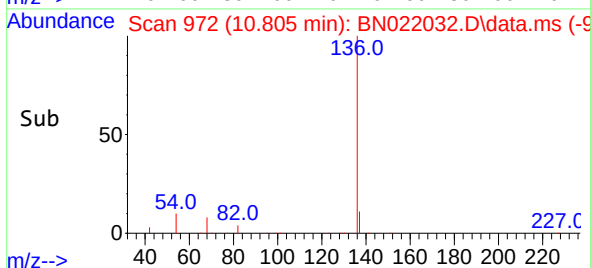
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

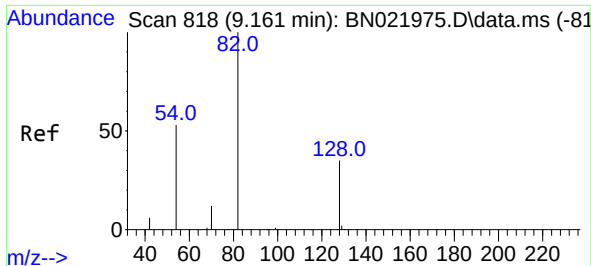


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.805 min Scan# 972
Delta R.T. -0.011 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30



Tgt Ion:136 Resp: 17352
Ion Ratio Lower Upper
136 100
137 11.4 9.2 13.8
54 10.5 7.1 10.7
68 8.6 6.2 9.2





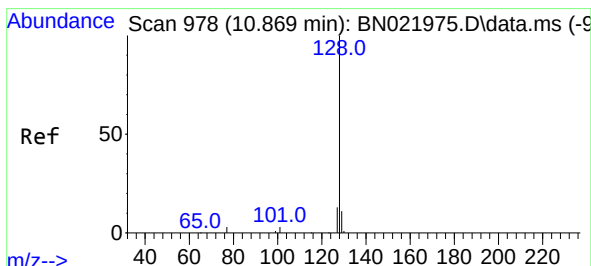
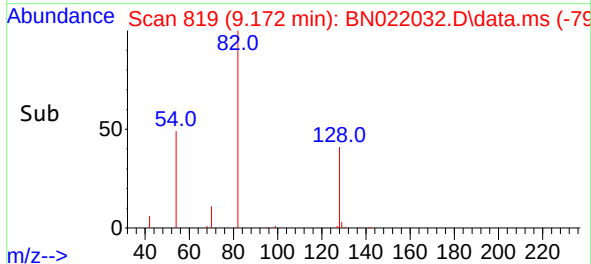
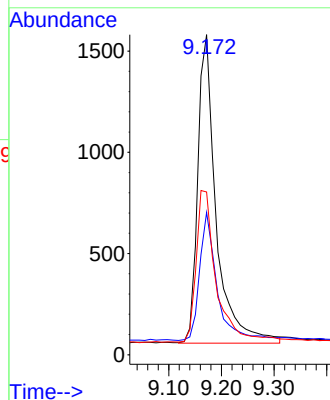
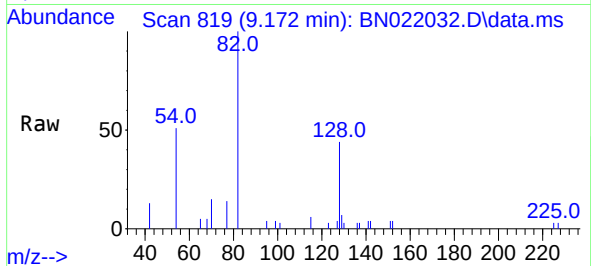
#8
Nitrobenzene-d5
Concen: 0.266 ng m
RT: 9.172 min Scan# 818
Delta R.T. 0.011 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tgt Ion: 82 Resp: 3704
Ion Ratio Lower Upper
82 100
128 44.5 29.9 44.9
54 50.9 43.5 65.3

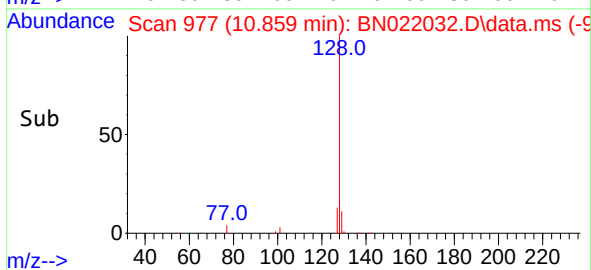
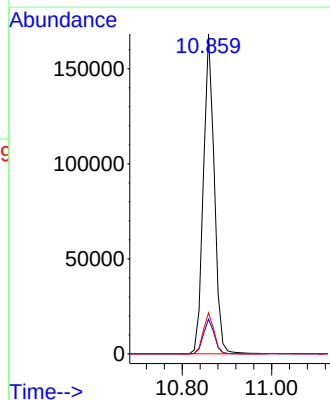
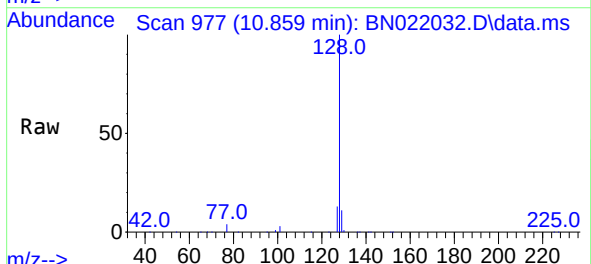
Manual Integrations
APPROVED

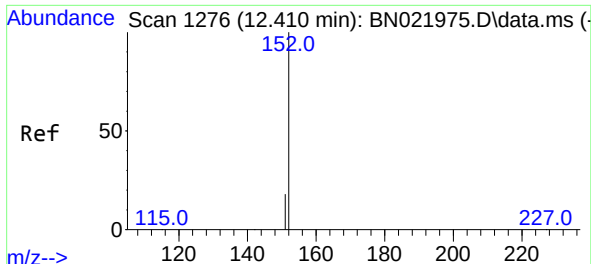
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022



#9
Naphthalene
Concen: 5.425 ng
RT: 10.859 min Scan# 977
Delta R.T. -0.011 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

Tgt Ion:128 Resp: 284284
Ion Ratio Lower Upper
128 100
129 10.9 9.3 13.9
127 12.9 10.6 16.0





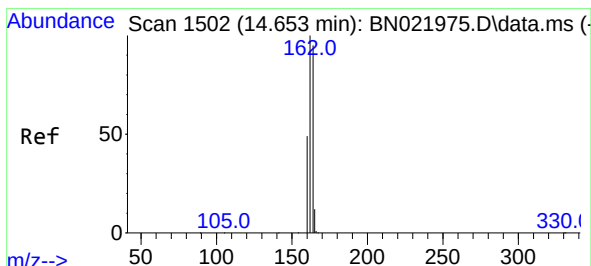
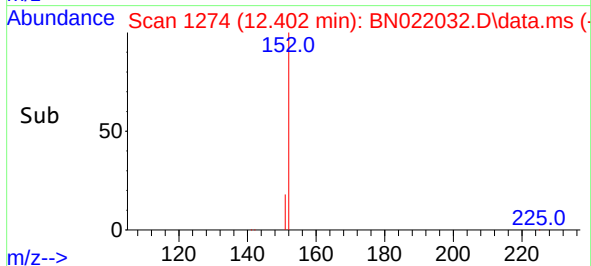
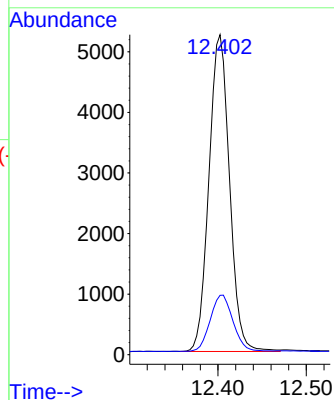
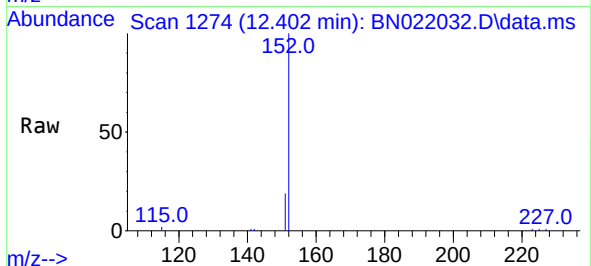
#11
2-Methylnaphthalene-d10
Concen: 0.265 ng
RT: 12.402 min Scan# 1501
Delta R.T. -0.008 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tgt Ion:152 Resp: 844
Ion Ratio Lower Upper
152 100
151 19.7 13.8 20.6

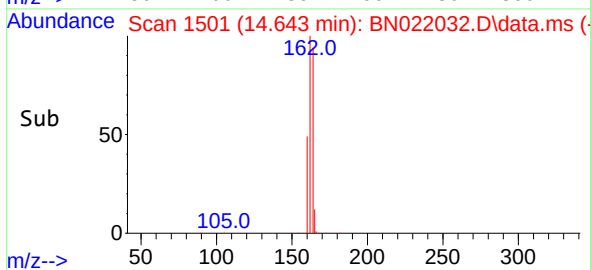
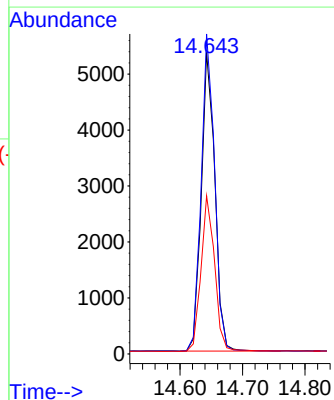
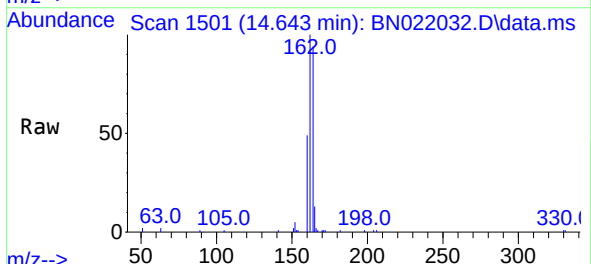
Manual Integrations
APPROVED

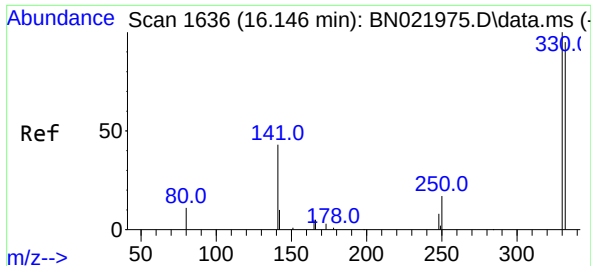
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.643 min Scan# 1501
Delta R.T. -0.011 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

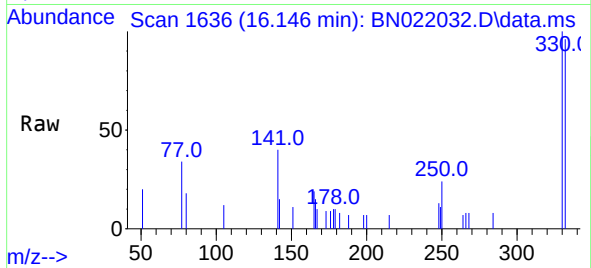
Tgt Ion:164 Resp: 8064
Ion Ratio Lower Upper
164 100
162 106.2 84.3 126.5
160 52.5 41.7 62.5





#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 16.146 min Scan# 10
Delta R.T. 0.000 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

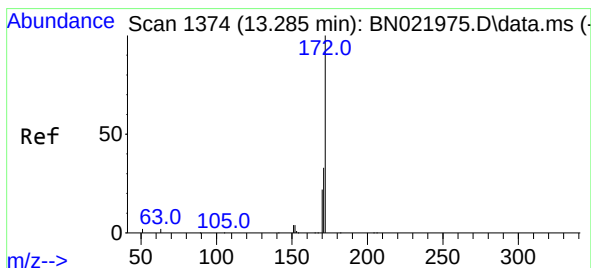
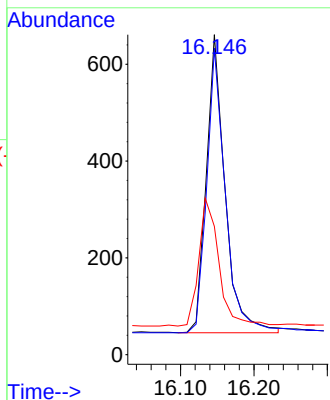
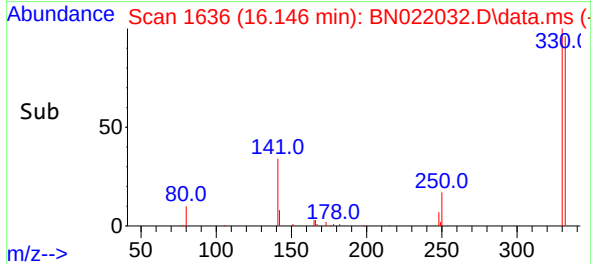
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



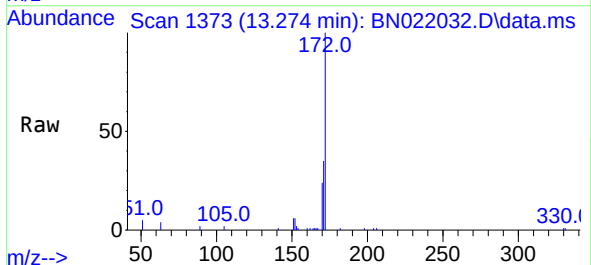
Tgt Ion:330 Resp: 1090
Ion Ratio Lower Upper
330 100
332 95.0 77.0 115.4
141 45.6 35.3 52.9

Manual Integrations
APPROVED

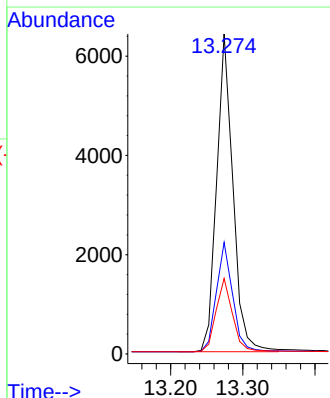
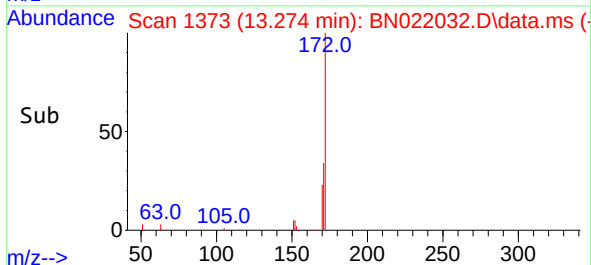
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

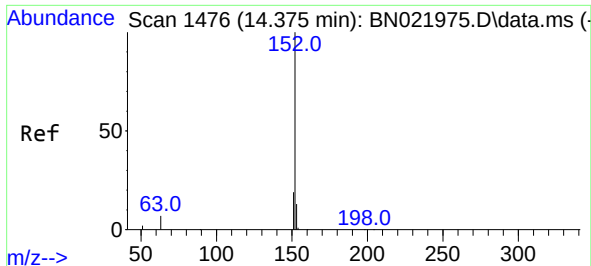


#15
2-Fluorobiphenyl
Concen: 0.285 ng
RT: 13.274 min Scan# 1373
Delta R.T. -0.011 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30



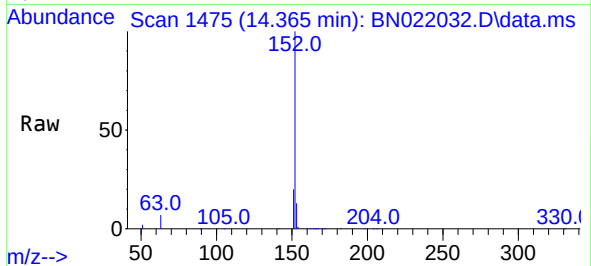
Tgt Ion:172 Resp: 10043
Ion Ratio Lower Upper
172 100
171 34.8 27.2 40.8
170 23.6 18.3 27.5





#16
Acenaphthylene
Concen: 9.504 ng
RT: 14.365 min Scan# 1476
Delta R.T. -0.011 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

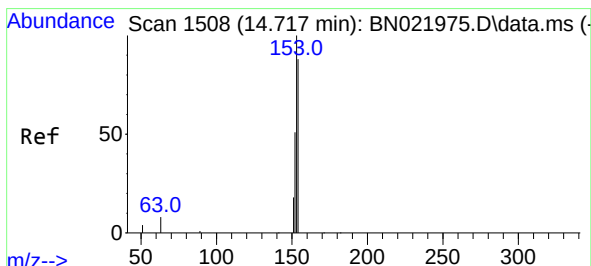
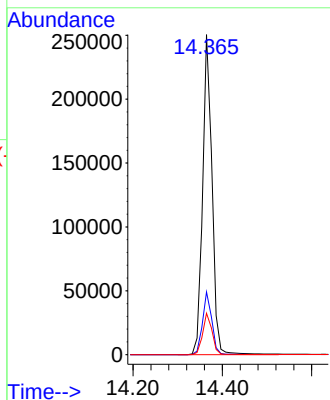
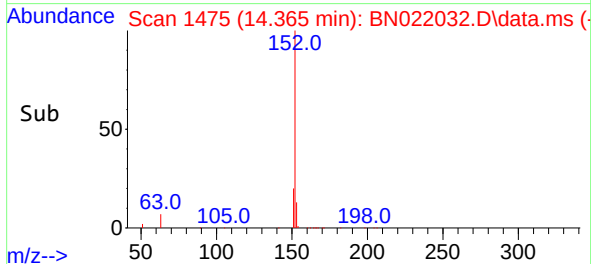
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



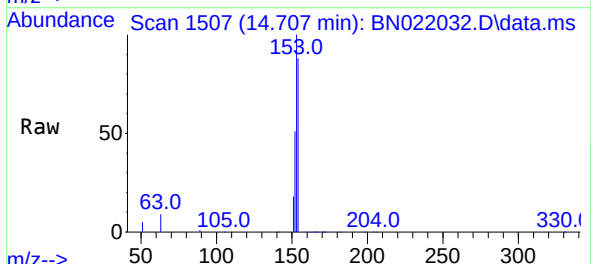
Tgt Ion:152 Resp: 36466
Ion Ratio Lower Upper
152 100
151 19.5 15.5 23.3
153 13.0 10.4 15.6

Manual Integrations
APPROVED

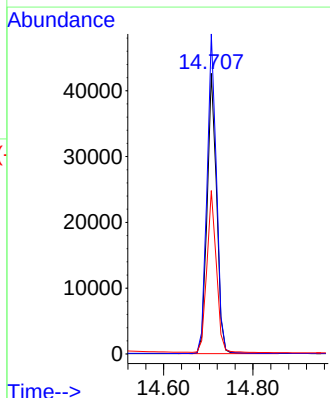
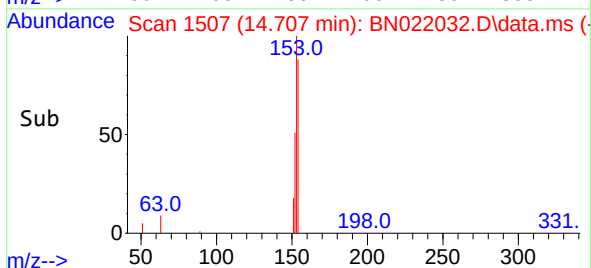
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

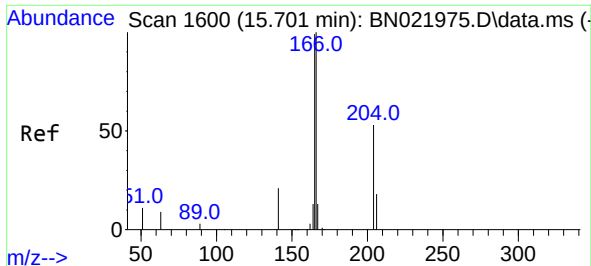


#17
Acenaphthene
Concen: 2.313 ng
RT: 14.707 min Scan# 1507
Delta R.T. -0.011 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30



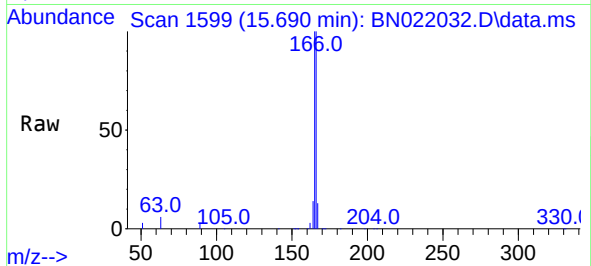
Tgt Ion:154 Resp: 62390
Ion Ratio Lower Upper
154 100
153 113.8 92.1 138.1
152 58.3 47.8 71.6





#18
Fluorene
Concen: 4.362 ng
RT: 15.690 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

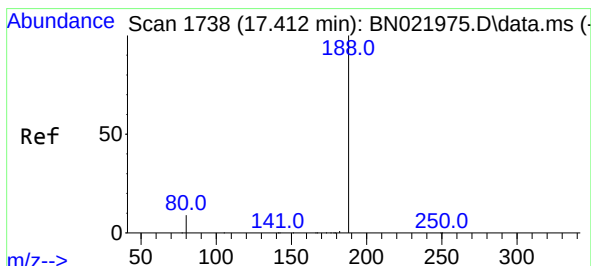
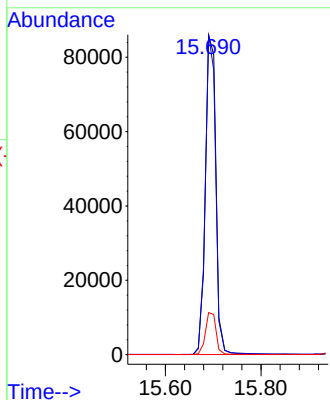
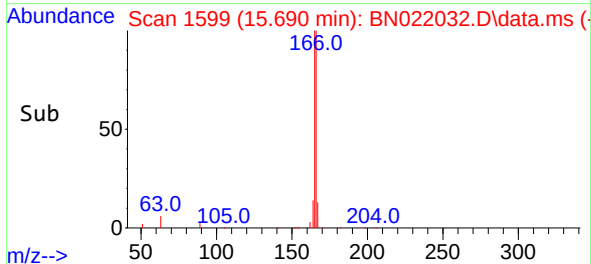
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



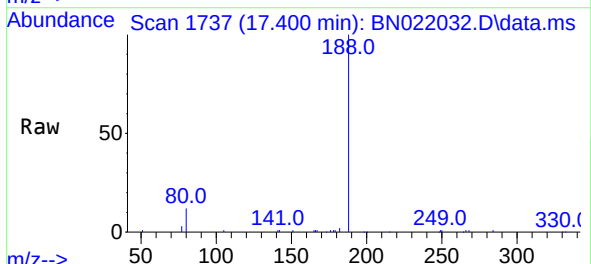
Tgt Ion:166 Resp: 14186
Ion Ratio Lower Upper
166 100
165 97.4 80.0 120.0
167 13.2 10.9 16.3

Manual Integrations
APPROVED

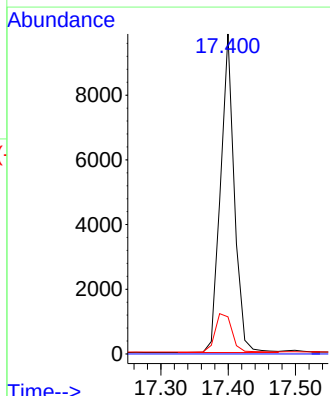
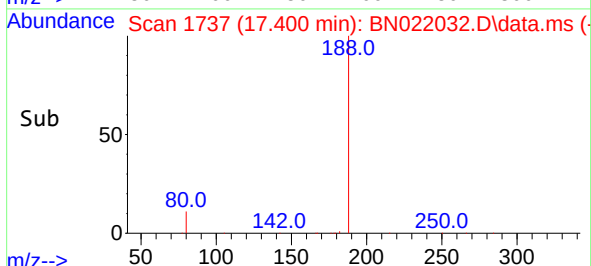
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

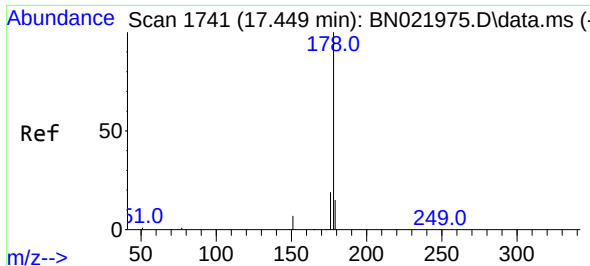


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.400 min Scan# 1737
Delta R.T. -0.012 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30



Tgt Ion:188 Resp: 14038
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.6 7.5 11.3





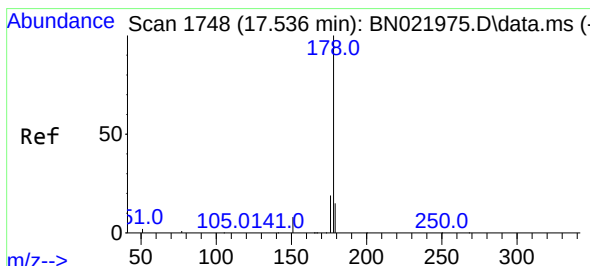
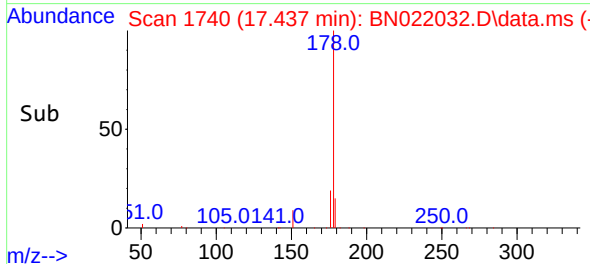
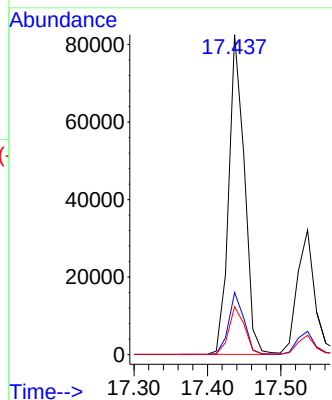
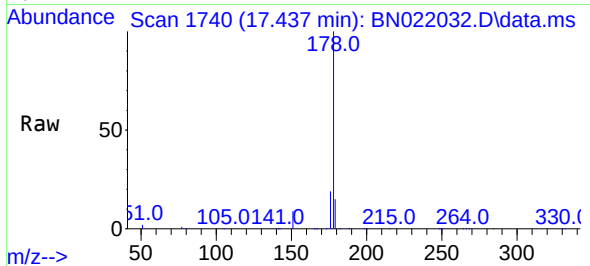
#25
Phenanthrene
Concen: 2.530 ng
RT: 17.437 min Scan# 1740
Delta R.T. -0.012 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tgt Ion:178 Resp: 12210
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.1 12.2 18.2

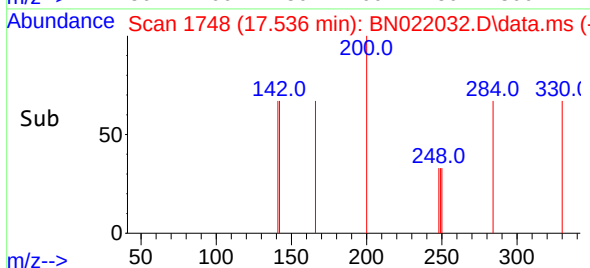
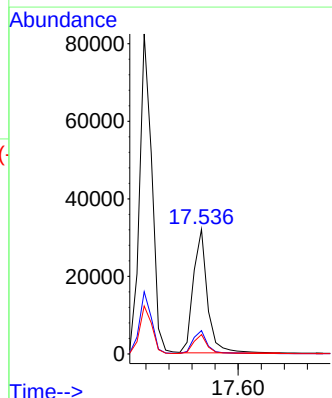
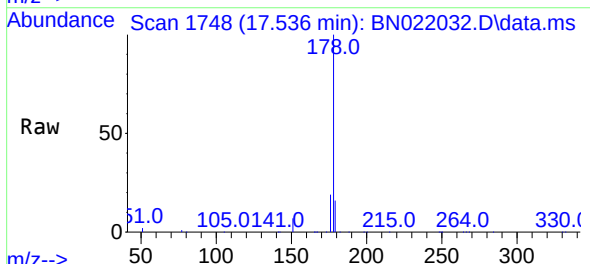
Manual Integrations
APPROVED

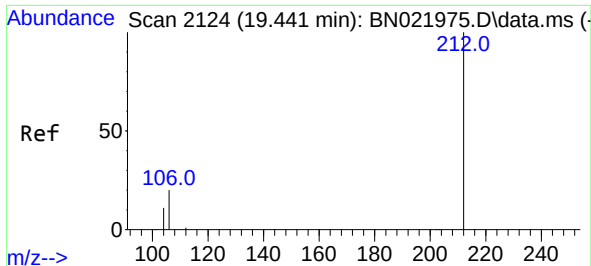
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022



#26
Anthracene
Concen: 1.396 ng
RT: 17.536 min Scan# 1748
Delta R.T. 0.000 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

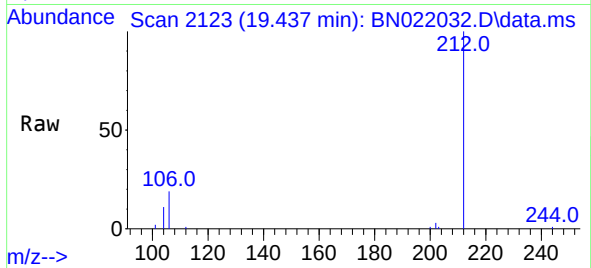
Tgt Ion:178 Resp: 54085
Ion Ratio Lower Upper
178 100
176 18.8 14.8 22.2
179 15.1 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.314 ng
RT: 19.437 min Scan# 2112
Delta R.T. -0.004 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

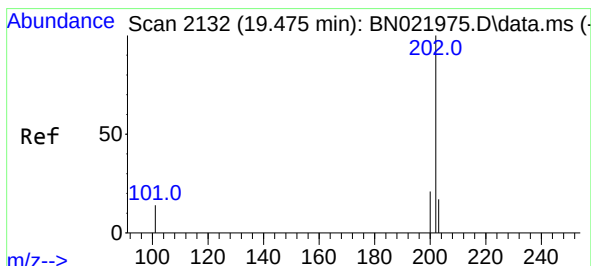
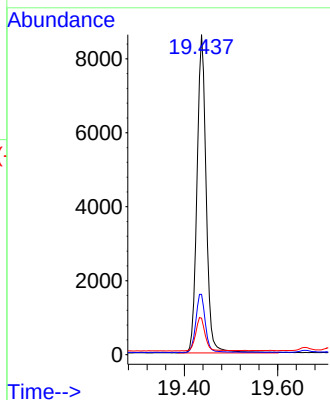
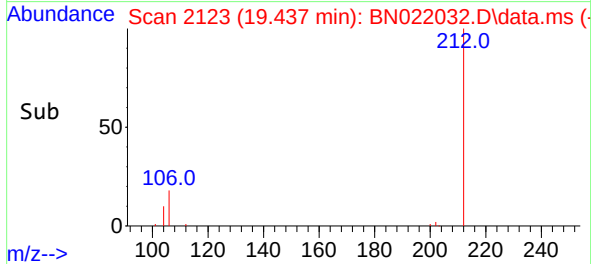
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



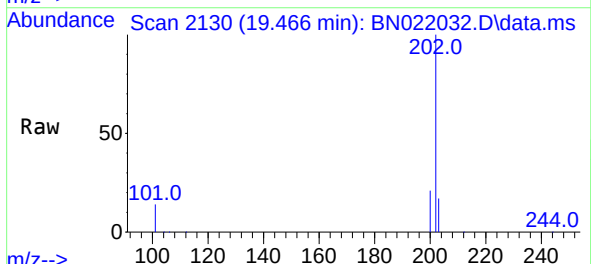
Tgt Ion:212 Resp: 11724
Ion Ratio Lower Upper
212 100
106 18.9 15.2 22.8
104 10.8 8.6 13.0

Manual Integrations
APPROVED

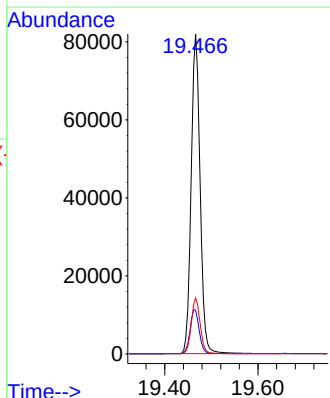
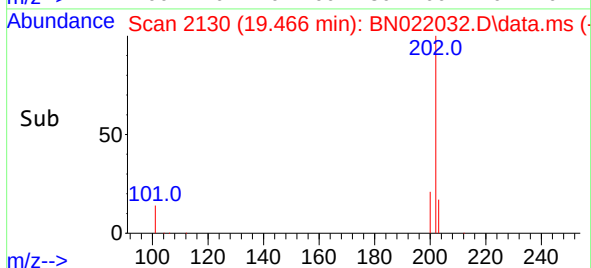
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

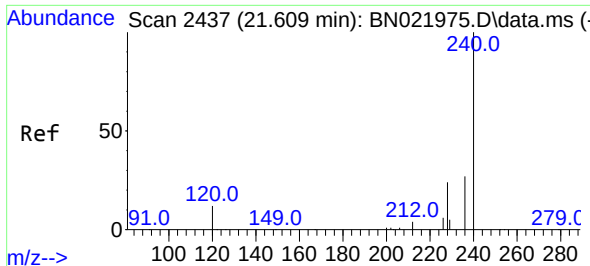


#28
Fluoranthene
Concen: 2.114 ng
RT: 19.466 min Scan# 2130
Delta R.T. -0.008 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30



Tgt Ion:202 Resp: 109305
Ion Ratio Lower Upper
202 100
101 14.1 11.4 17.0
203 17.2 13.5 20.3





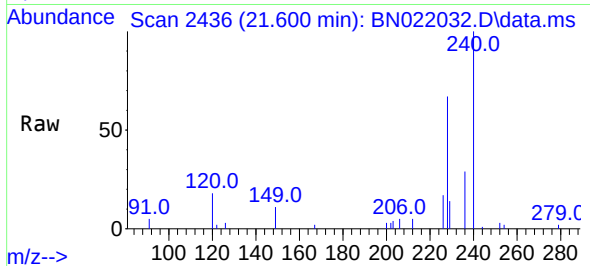
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.600 min Scan# 2437
Delta R.T. -0.009 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

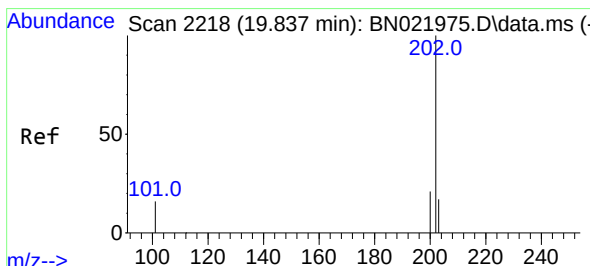
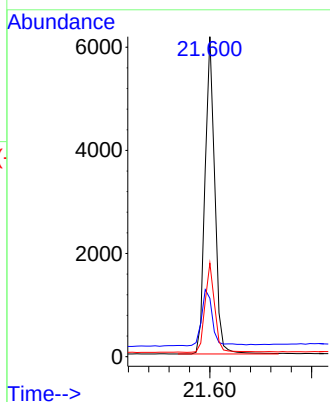
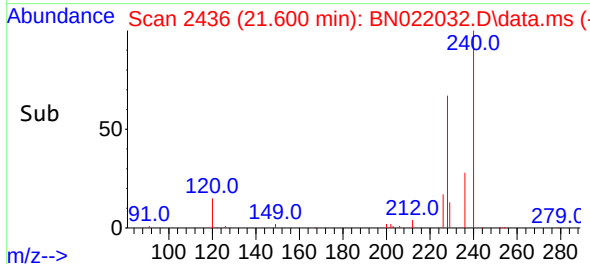


Tgt Ion:240 Resp: 8197
Ion Ratio Lower Upper
240 100
120 18.3 11.8 17.6
236 29.3 22.4 33.6

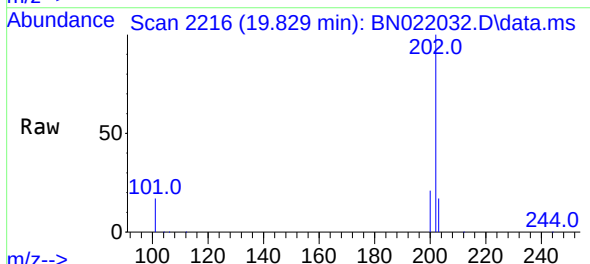
Manual Integrations

APPROVED

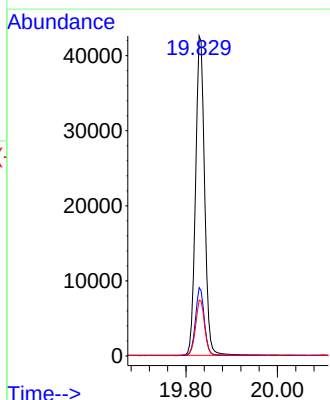
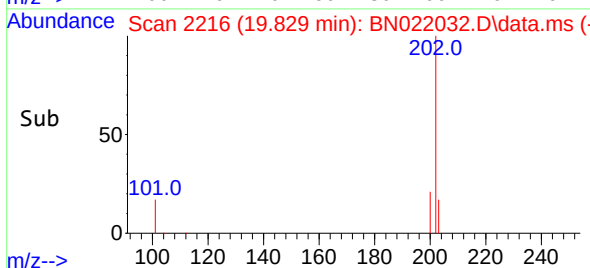
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

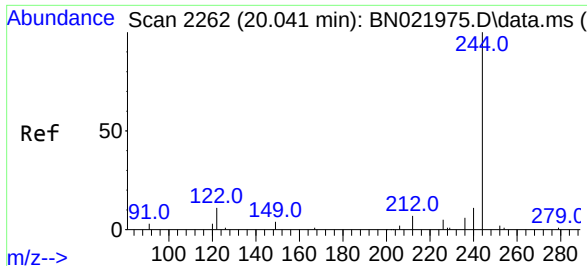


#30
Pyrene
Concen: 1.628 ng
RT: 19.829 min Scan# 2216
Delta R.T. -0.008 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30



Tgt Ion:202 Resp: 58595
Ion Ratio Lower Upper
202 100
200 20.9 16.6 25.0
203 17.5 14.1 21.1





#31
 Terphenyl-d14
 Concen: 0.341 ng
 RT: 20.033 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN022032.D
 Acq: 07 Oct 2022 10:30

Instrument :

BNA_N

ClientSampleId :

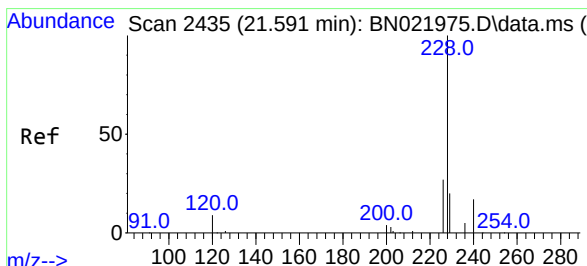
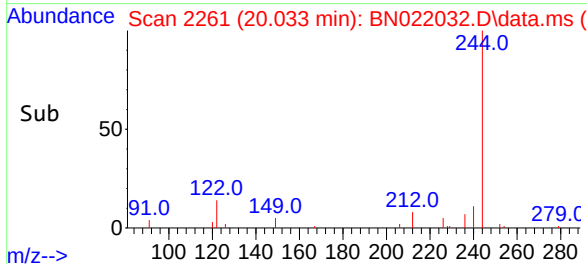
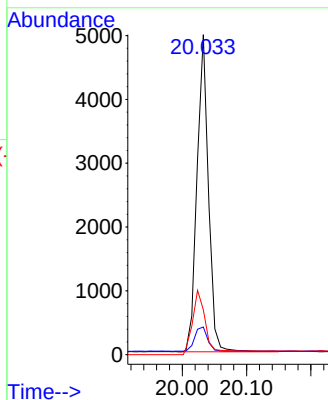
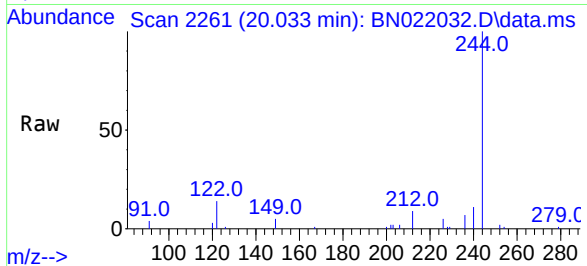
RR-PAH-WP

Tgt Ion:244 Resp: 562
 Ion Ratio Lower Upper
 244 100
 212 8.6 6.5 9.7
 122 14.0 9.1 13.7

Manual Integrations

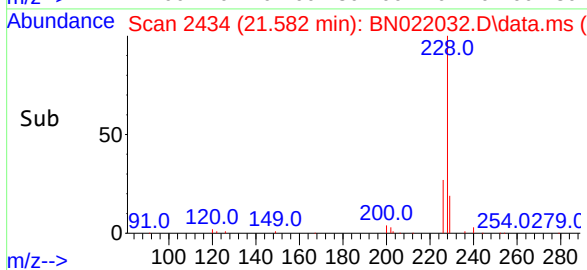
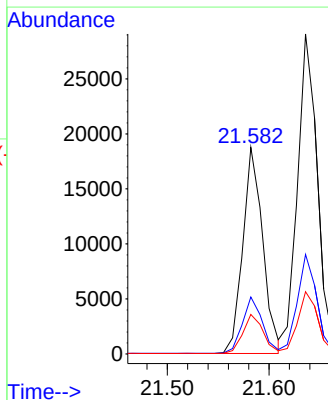
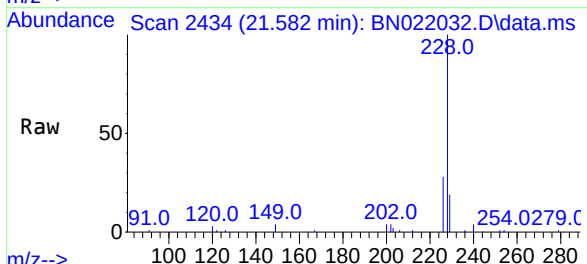
APPROVED

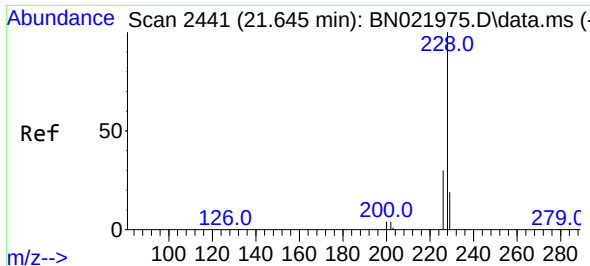
Reviewed By :Christian Giraldo 10/10/2022
 Supervised By :Jagrut Upadhyay 10/10/2022



#32
 Benzo(a)anthracene
 Concen: 0.827 ng
 RT: 21.582 min Scan# 2434
 Delta R.T. -0.009 min
 Lab File: BN022032.D
 Acq: 07 Oct 2022 10:30

Tgt Ion:228 Resp: 25505
 Ion Ratio Lower Upper
 228 100
 226 27.6 22.2 33.4
 229 19.2 16.2 24.2





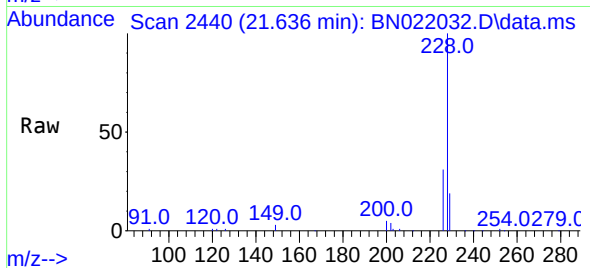
#33
Chrysene
Concen: 1.161 ng
RT: 21.636 min Scan# 2441
Delta R.T. -0.009 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

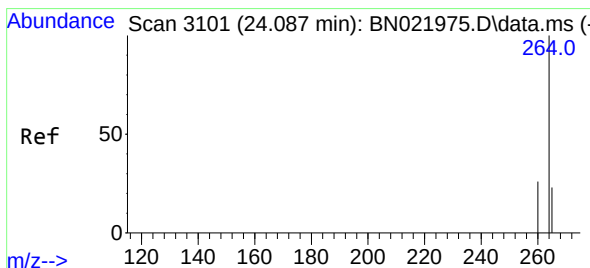
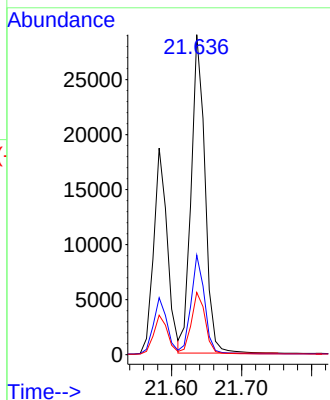
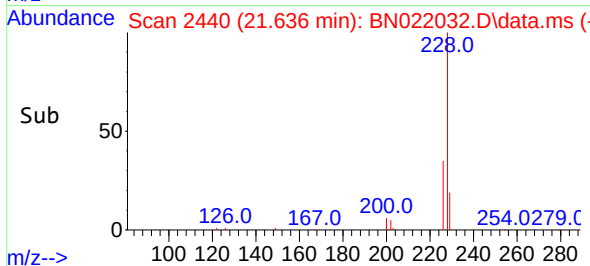


Tgt Ion:228 Resp: 39710
Ion Ratio Lower Upper
228 100
226 31.1 24.2 36.2
229 19.5 15.8 23.6

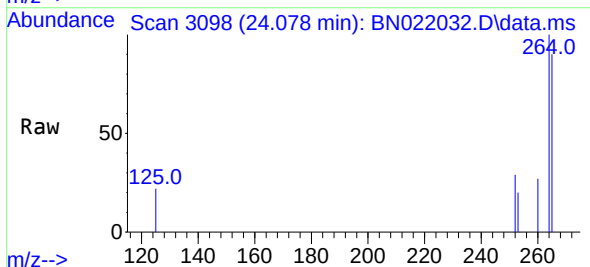
Manual Integrations

APPROVED

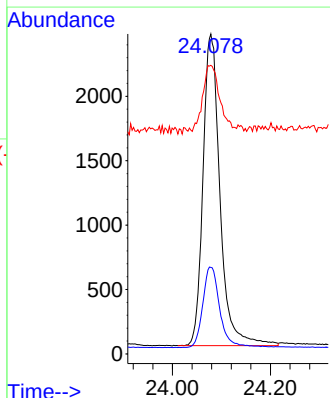
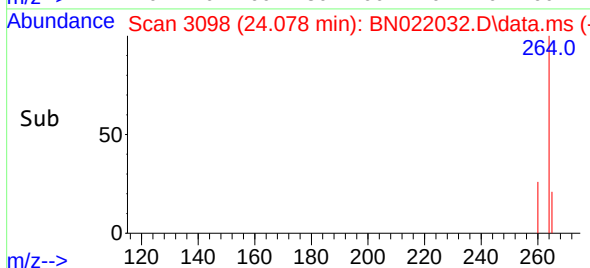
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

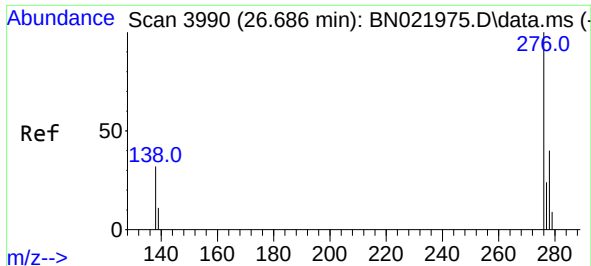


#35
Perylene-d12
Concen: 0.400 ng
RT: 24.078 min Scan# 3098
Delta R.T. -0.009 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30



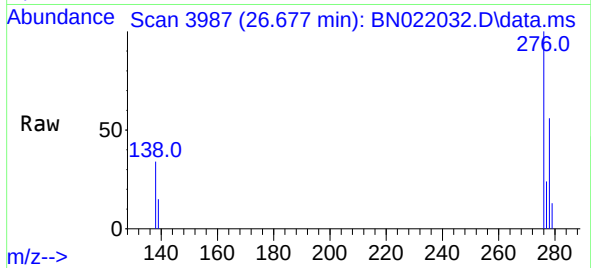
Tgt Ion:264 Resp: 5834
Ion Ratio Lower Upper
264 100
260 27.0 21.3 31.9
265 90.2 63.0 94.4





#36
 Indeno(1,2,3-cd)pyrene
 Concen: 3.153 ng
 RT: 26.677 min Scan# 3990
 Delta R.T. -0.009 min
 Lab File: BN022032.D
 Acq: 07 Oct 2022 10:30

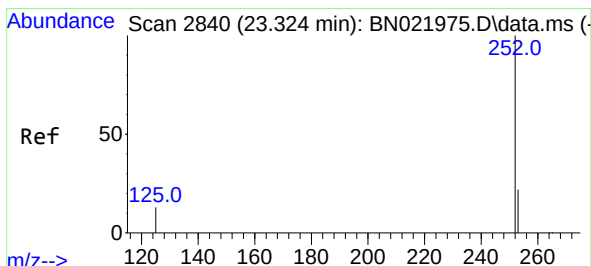
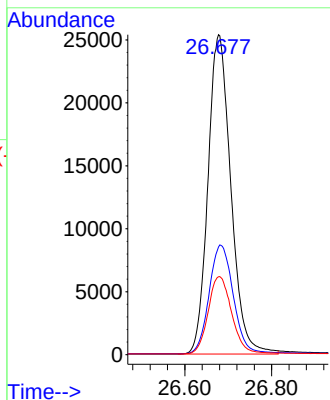
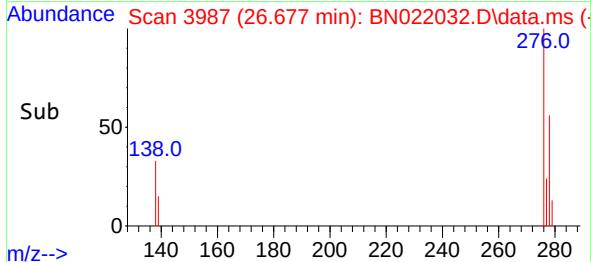
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP



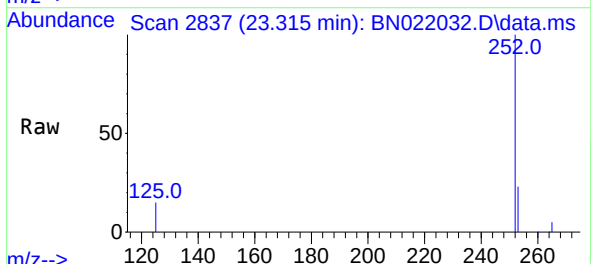
Tgt Ion:276 Resp: 9294
 Ion Ratio Lower Upper
 276 100
 138 35.9 28.0 42.0
 277 24.9 19.8 29.8

Manual Integrations
 APPROVED

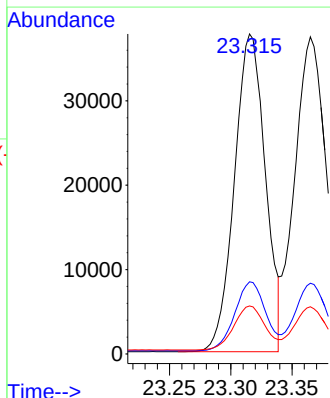
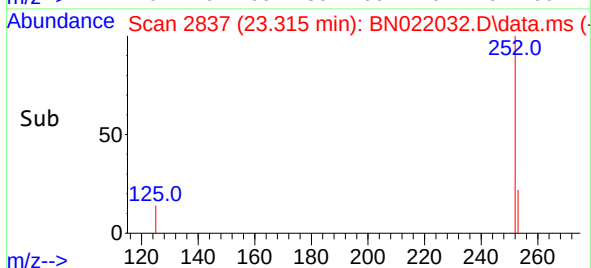
Reviewed By :Christian Giraldo 10/10/2022
 Supervised By :Jagrut Upadhyay 10/10/2022

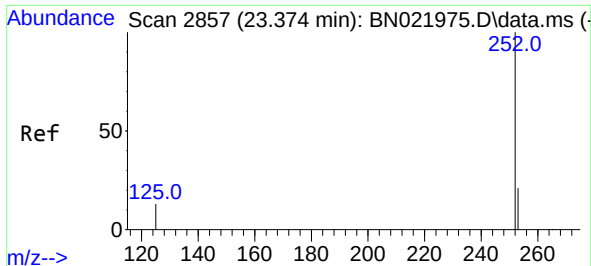


#37
 Benzo(b)fluoranthene
 Concen: 2.385 ng
 RT: 23.315 min Scan# 2837
 Delta R.T. -0.009 min
 Lab File: BN022032.D
 Acq: 07 Oct 2022 10:30



Tgt Ion:252 Resp: 65949
 Ion Ratio Lower Upper
 252 100
 253 22.6 20.6 31.0
 125 15.0 15.6 23.4#





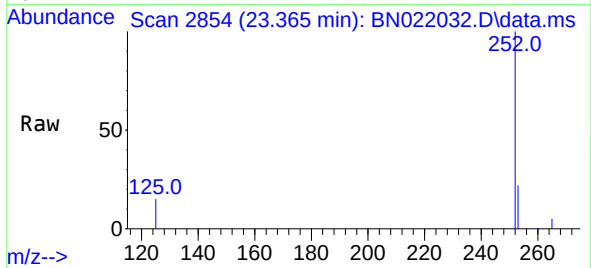
#38
Benzo(k)fluoranthene
Concen: 2.492 ng m
RT: 23.365 min Scan# 2854
Delta R.T. -0.009 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP

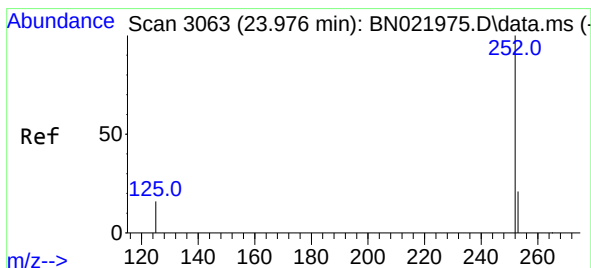
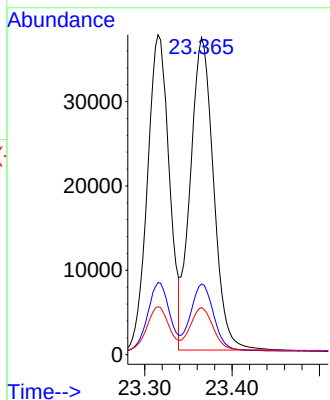
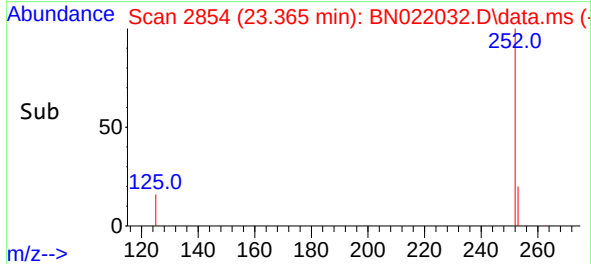


Tgt Ion:252 Resp: 6861
Ion Ratio Lower Upper
252 100
253 22.3 20.4 30.6
125 14.9 15.8 23.6

Manual Integrations

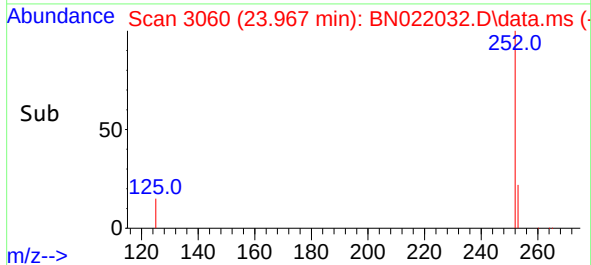
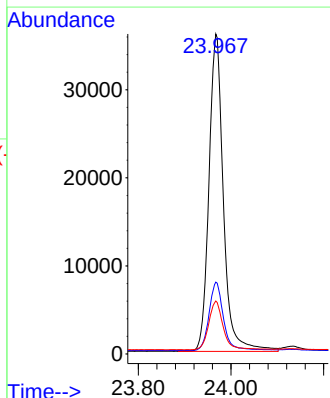
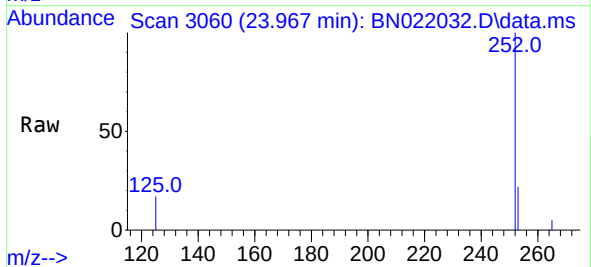
APPROVED

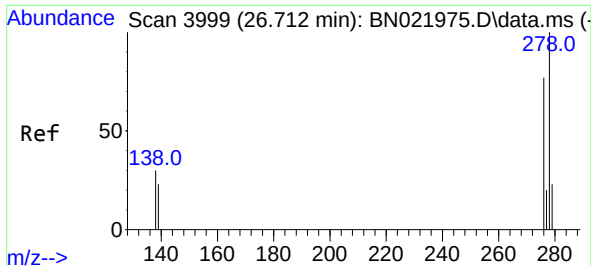
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022



#39
Benzo(a)pyrene
Concen: 3.703 ng
RT: 23.967 min Scan# 3060
Delta R.T. -0.009 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

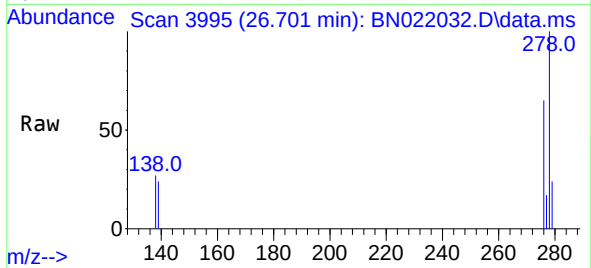
Tgt Ion:252 Resp: 78116
Ion Ratio Lower Upper
252 100
253 22.5 23.2 34.8#
125 16.6 21.1 31.7#





#40
Dibenzo(a,h)anthracene
Concen: 3.465 ng
RT: 26.701 min Scan# 3995
Delta R.T. -0.012 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30

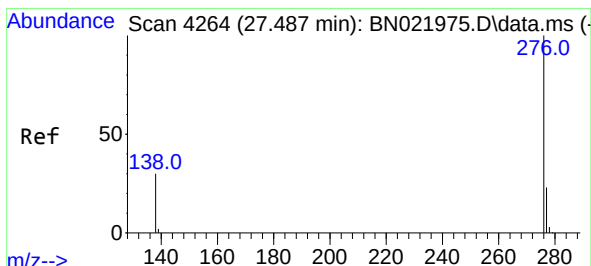
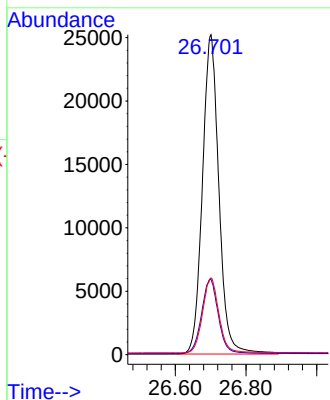
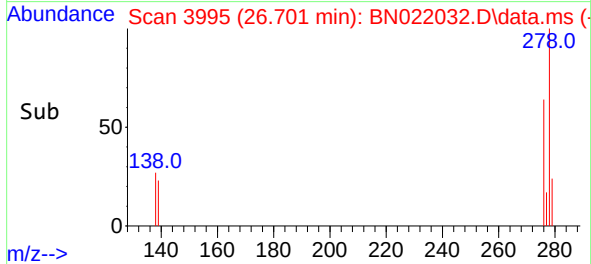
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



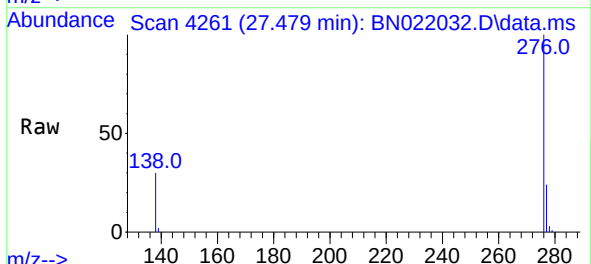
Tgt Ion:278 Resp: 81450
Ion Ratio Lower Upper
278 100
139 23.5 19.9 29.9
279 24.0 21.9 32.9

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022



#41
Benzo(g,h,i)perylene
Concen: 3.245 ng
RT: 27.479 min Scan# 4261
Delta R.T. -0.009 min
Lab File: BN022032.D
Acq: 07 Oct 2022 10:30



Tgt Ion:276 Resp: 82345
Ion Ratio Lower Upper
276 100
277 23.8 20.0 30.0
138 30.3 25.2 37.8

