

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032822\
 Data File : BN019197.D
 Acq On : 28 Mar 2022 16:16
 Operator : CG/JU
 Sample : N1870-21DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/29/2022
 Supervised By : Jagrut Upadhyay 03/29/2022

Quant Time: Mar 28 16:44:37 2022
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN032522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 25 19:03:12 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.840	152	3019	0.400	ng	0.00
7) Naphthalene-d8	10.648	136	8142	0.400	ng	# 0.00
13) Acenaphthene-d10	14.484	164	5020	0.400	ng	0.00
19) Phenanthrene-d10	17.236	188	9567	0.400	ng	0.01
29) Chrysene-d12	21.422	240	6957	0.400	ng	# 0.00
35) Perylene-d12	23.793	264	5817	0.400	ng	# 0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	402	0.056	ng	0.00
5) Phenol-d6	7.024	99	239	0.029	ng	0.02
8) Nitrobenzene-d5	9.025	82	173	0.027	ng	0.03
11) 2-Methylnaphthalene-d10	12.242	152	499	0.038	ng	0.00
14) 2,4,6-Tribromophenol	15.995	330	105	0.043	ng	0.02
15) 2-Fluorobiphenyl	13.116	172	817	0.039	ng	0.01
27) Fluoranthene-d10	19.261	212	1201	0.043	ng	0.00
31) Terphenyl-d14	19.868	244	1035	0.067	ng	0.02
Target Compounds						Qvalue
9) Naphthalene	10.690	128	18625	0.812	ng	99
12) 2-Methylnaphthalene	12.318	142	5367	0.356	ng	96
16) Acenaphthylene	14.196	152	28720	1.253	ng	100
17) Acenaphthene	14.549	154	27675	1.705	ng	99
18) Fluorene	15.532	166	15622	0.756	ng	99
25) Phenanthrene	17.277	178	3852	0.126	ng	97
26) Anthracene	17.369	178	6947	0.273	ng	100
28) Fluoranthene	19.295	202	11342	0.327	ng	99
30) Pyrene	19.653	202	15736	0.479	ng	99
32) Benzo(a)anthracene	21.413	228	3506	0.157	ng	94
33) Chrysene	21.458	228	6525	0.228	ng	98
36) Indeno(1,2,3-cd)pyrene	26.246	276	8455	0.364	ng	# 91
37) Benzo(b)fluoranthene	23.074	252	7142	0.323	ng	# 88
38) Benzo(k)fluoranthene	23.121	252	11985m	0.428	ng	
39) Benzo(a)pyrene	23.691	252	1945	0.103	ng	# 31
40) Dibenzo(a,h)anthracene	26.275	278	3308m	0.189	ng	
41) Benzo(g,h,i)perylene	26.992	276	12552	0.524	ng	98

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

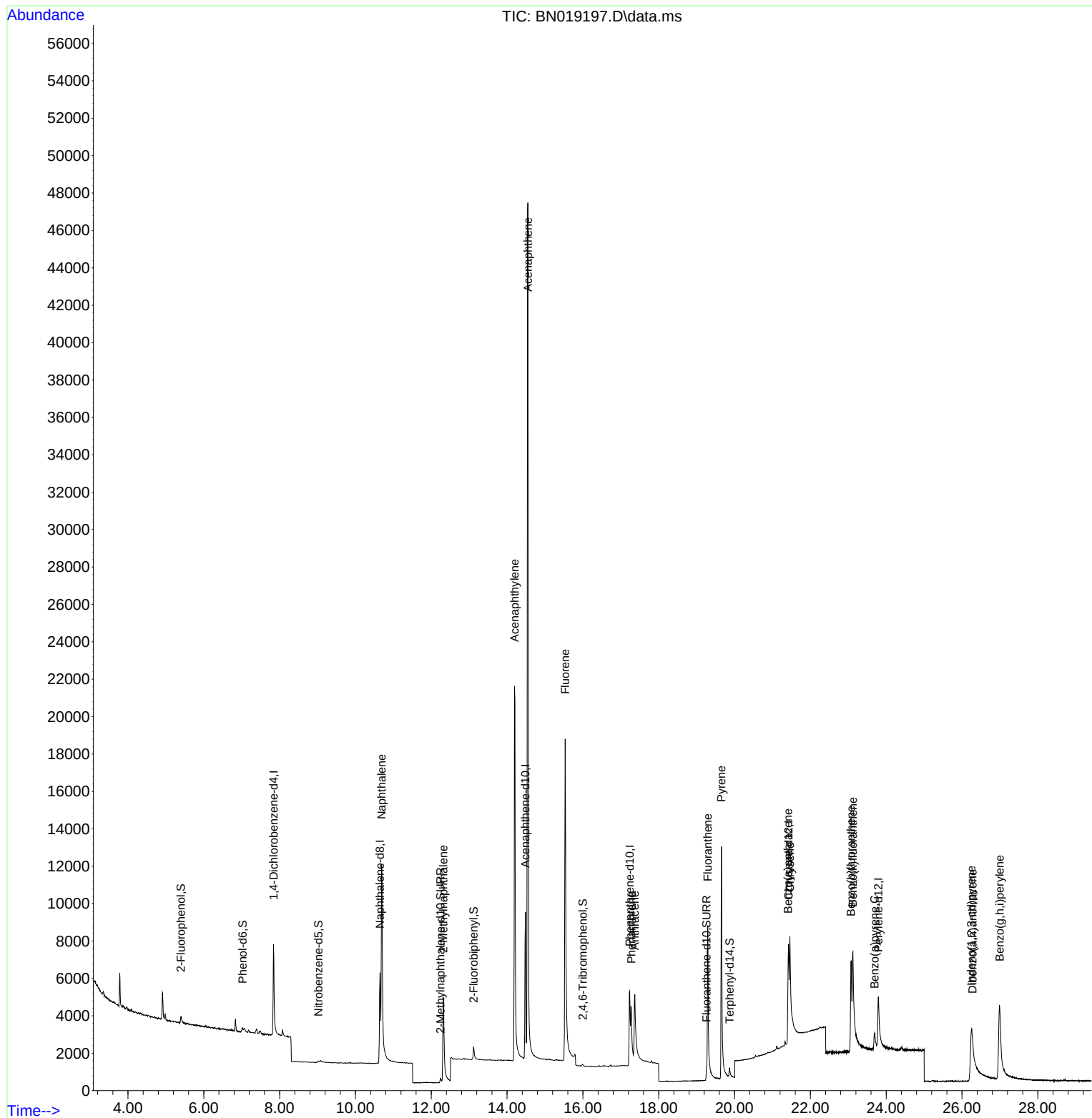
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032822\
Data File : BN019197.D
Acq On : 28 Mar 2022 16:16
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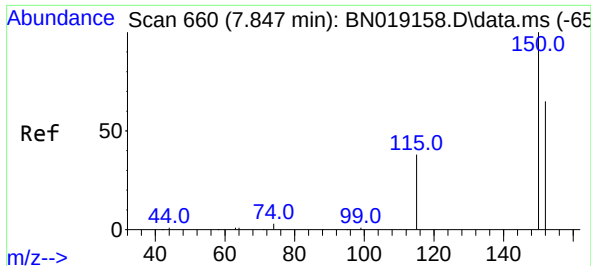
Instrument :
BNA_N
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Quant Time: Mar 28 16:44:37 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN032522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 25 19:03:12 2022
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.840 min Scan# 619
Delta R.T. -0.007 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

Instrument :

BNA_N

ClientSampleId :

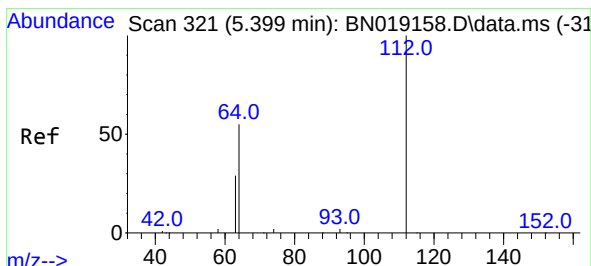
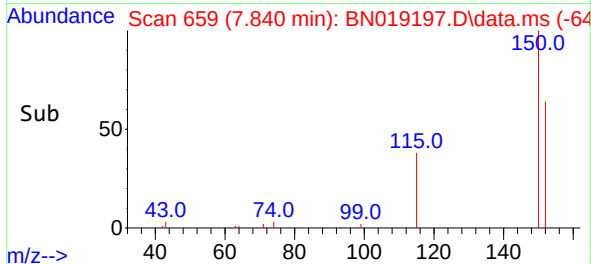
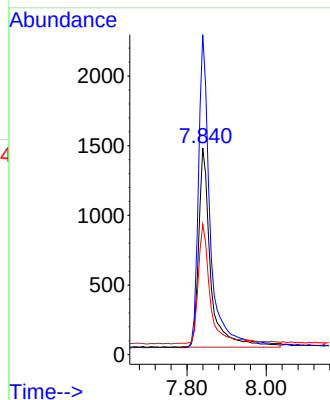
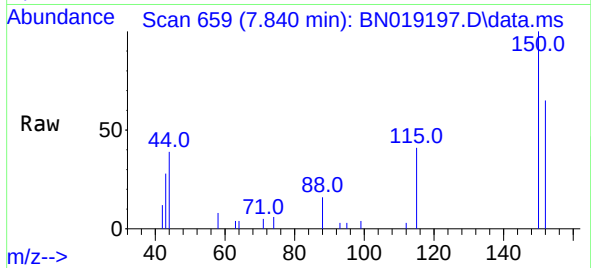
RR-PAH-WPDL

Tgt Ion:152 Resp: 3019
Ion Ratio Lower Upper
152 100
150 154.8 123.9 185.9
115 63.1 48.2 72.4

Manual Integrations

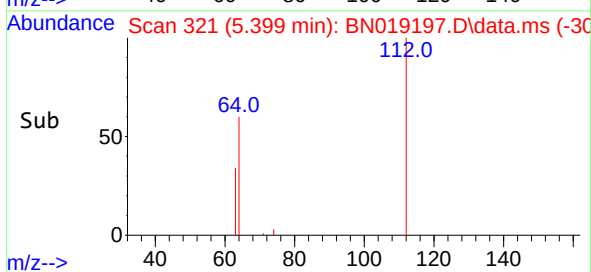
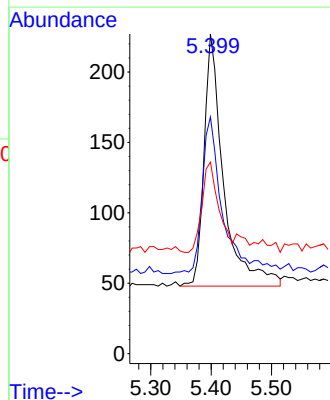
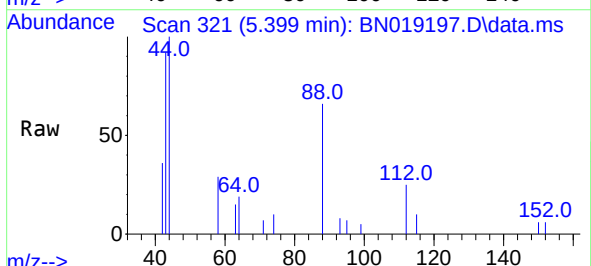
APPROVED

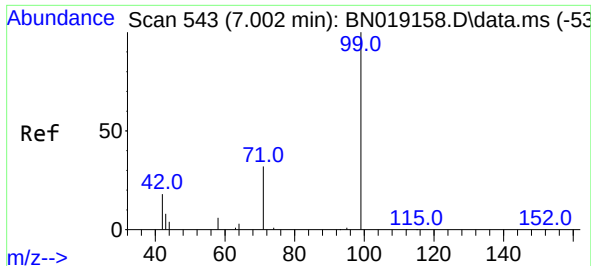
Reviewed By :Christian Giraldo 03/29/2022
Supervised By :Jagrut Upadhyay 03/29/2022



#4
2-Fluorophenol
Concen: 0.056 ng
RT: 5.399 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

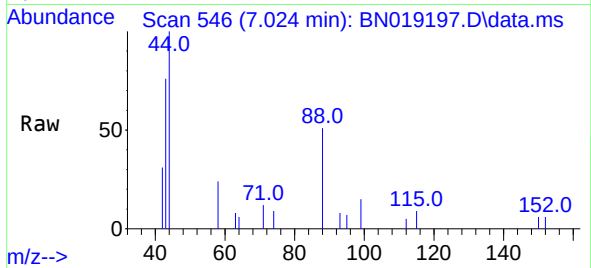
Tgt Ion:112 Resp: 402
Ion Ratio Lower Upper
112 100
64 66.2 47.8 71.8
63 30.8 25.7 38.5





#5
Phenol-d6
Concen: 0.029 ng
RT: 7.024 min Scan# 543
Delta R.T. 0.022 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

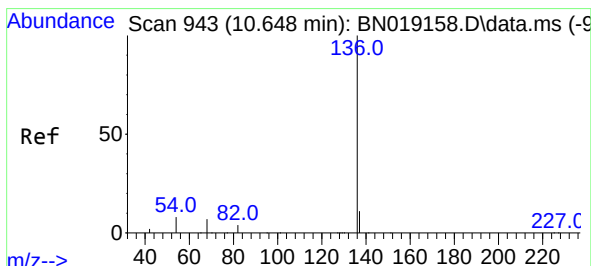
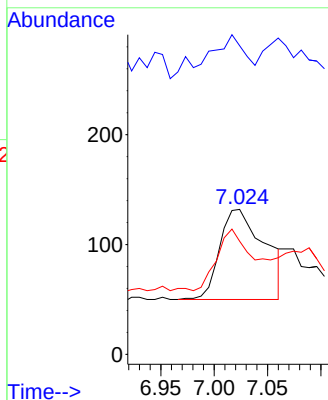
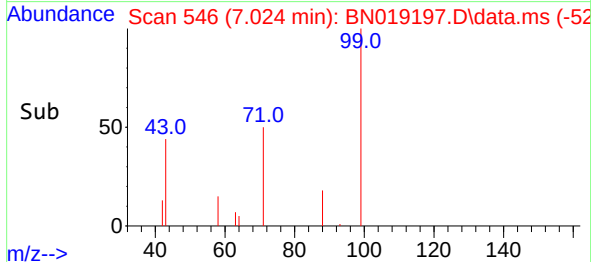
Instrument :
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ClientSampleId :
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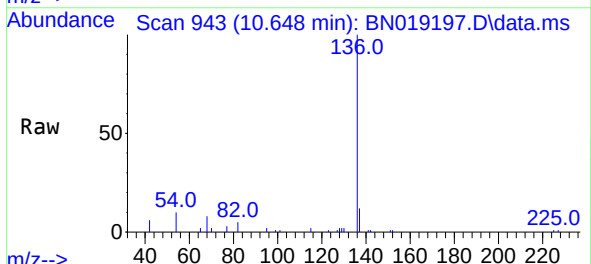
Tgt Ion: 99 Resp: 239
Ion Ratio Lower Upper
99 100
42 41.4 16.2 24.4#
71 57.3 27.7 41.5#

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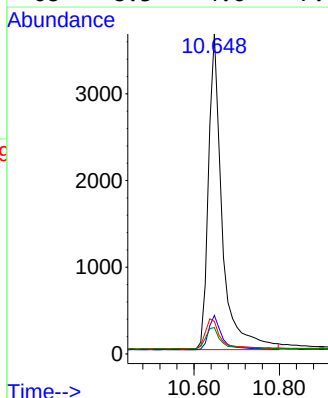
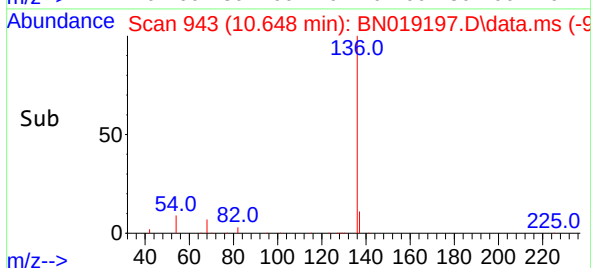
Reviewed By :Christian Giraldo 03/29/2022
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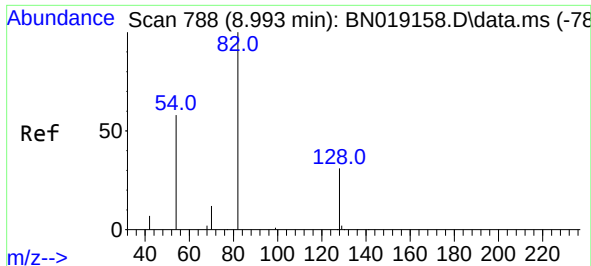


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.648 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16



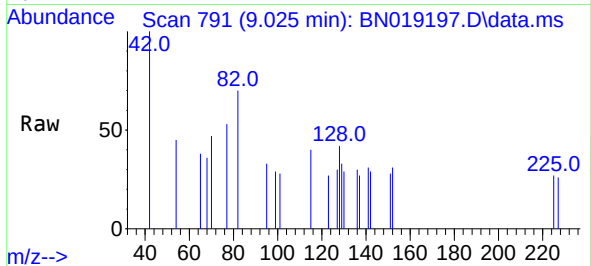
Tgt Ion:136 Resp: 8142
Ion Ratio Lower Upper
136 100
137 12.0 9.0 13.4
54 10.2 5.8 8.6#
68 8.3 4.6 7.0#





#8
Nitrobenzene-d5
Concen: 0.027 ng
RT: 9.025 min Scan# 791
Delta R.T. 0.032 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

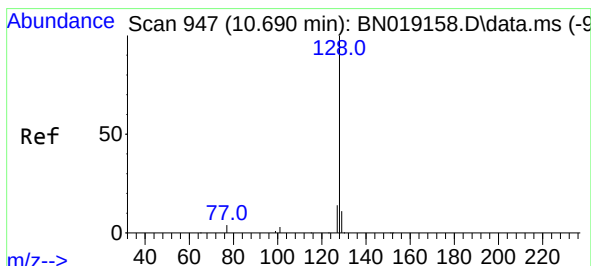
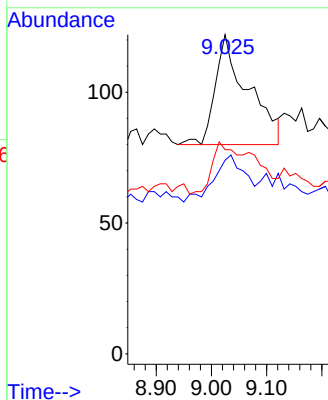
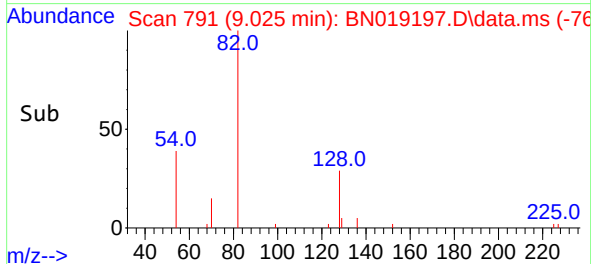
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



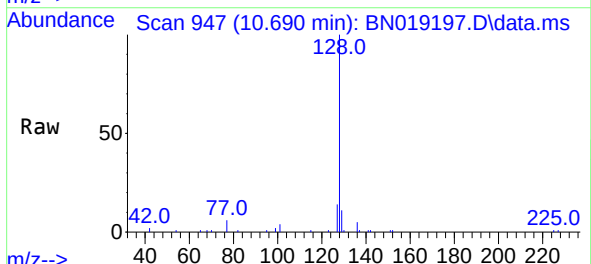
Tgt Ion: 82 Resp: 17
Ion Ratio Lower Upper
82 100
128 60.7 33.0 49.6
54 63.9 42.5 63.7

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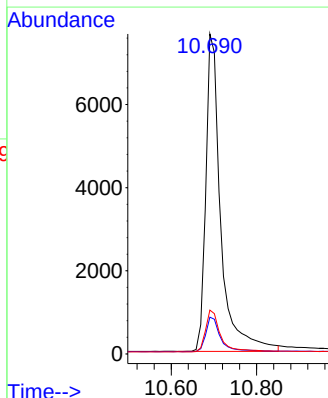
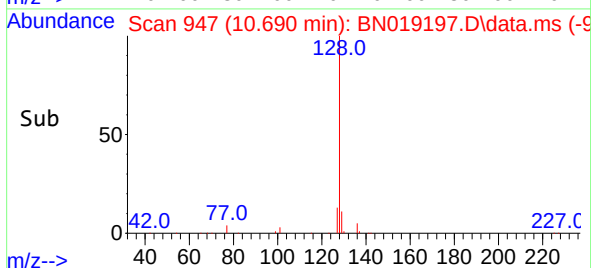
Reviewed By :Christian Giraldo 03/29/2022
Supervised By :Jagrut Upadhyay 03/29/2022

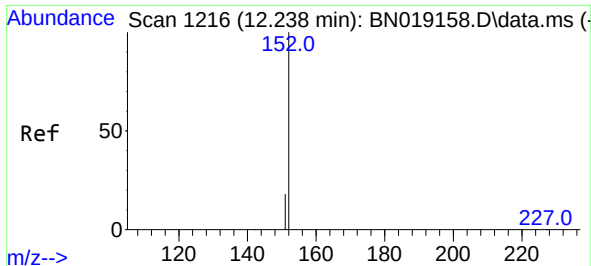


#9
Naphthalene
Concen: 0.812 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16



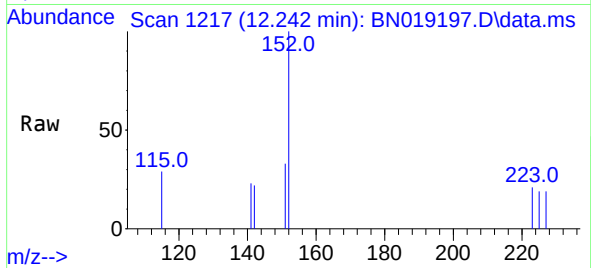
Tgt Ion:128 Resp: 18625
Ion Ratio Lower Upper
128 100
129 11.5 9.0 13.4
127 13.7 10.7 16.1





#11
2-Methylnaphthalene-d10
Concen: 0.038 ng
RT: 12.242 min Scan# 1217
Delta R.T. 0.004 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

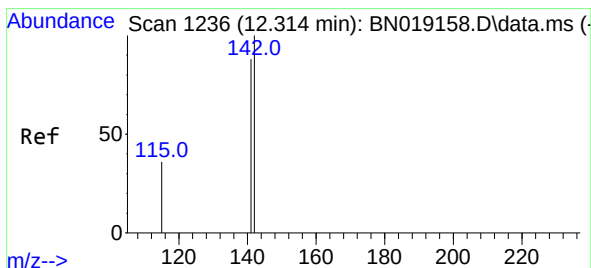
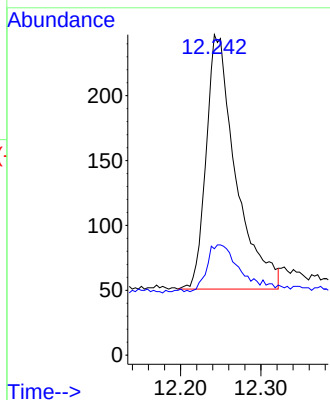
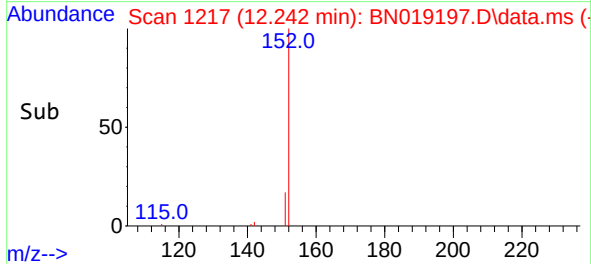
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



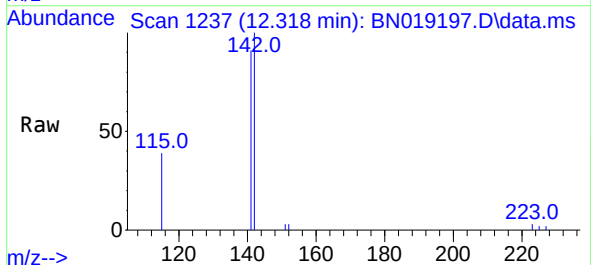
Tgt Ion:152 Resp: 499
Ion Ratio Lower Upper
152 100
151 19.4 16.5 24.7

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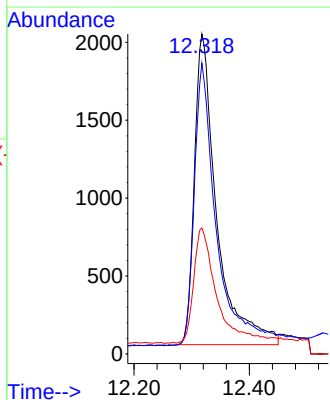
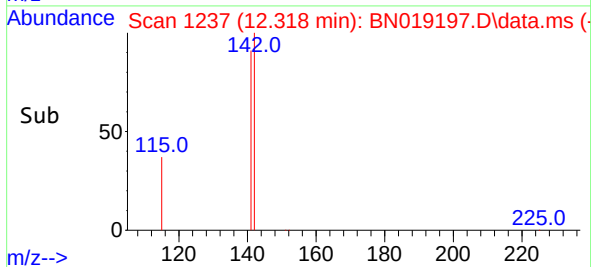
Reviewed By :Christian Giraldo 03/29/2022
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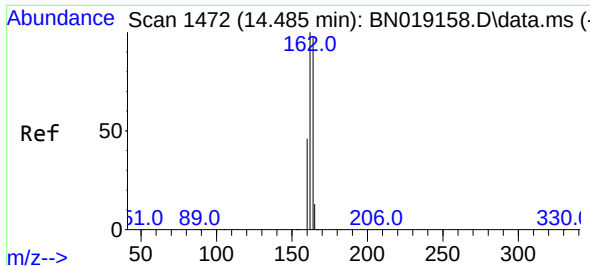


#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.318 min Scan# 1237
Delta R.T. 0.004 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16



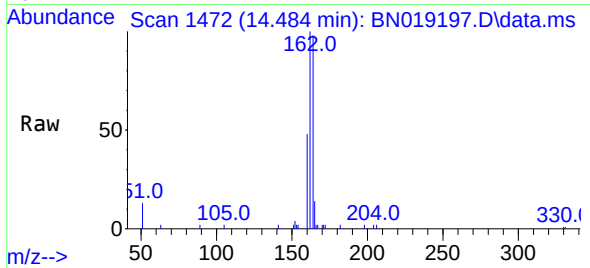
Tgt Ion:142 Resp: 5367
Ion Ratio Lower Upper
142 100
141 90.8 70.0 105.0
115 39.4 29.8 44.8





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

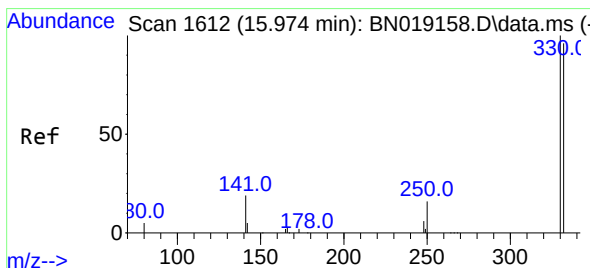
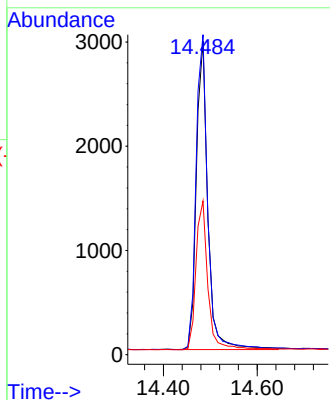
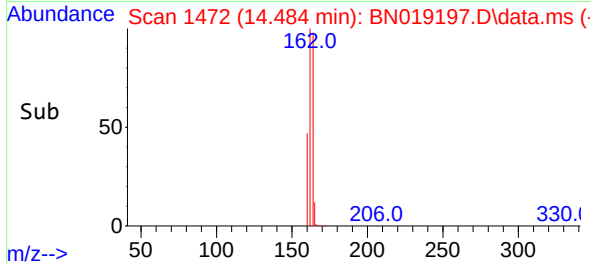
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



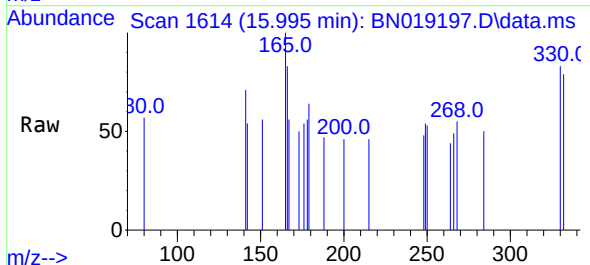
Tgt Ion:164 Resp: 5020
Ion Ratio Lower Upper
164 100
162 102.0 85.2 127.8
160 49.0 41.5 62.3

Manual Integrations
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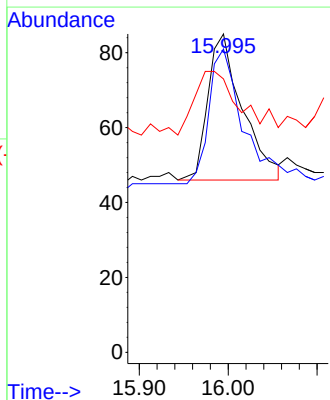
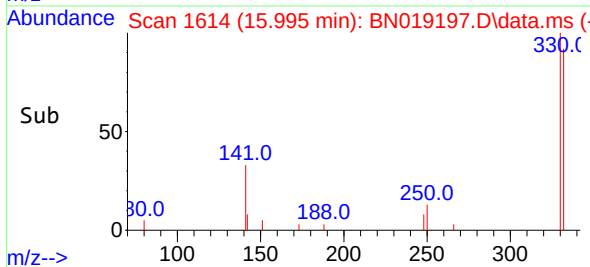
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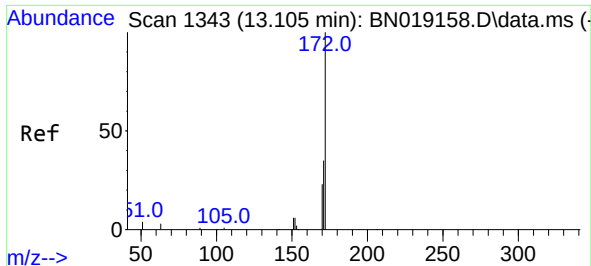


#14
2,4,6-Tribromophenol
Concen: 0.043 ng
RT: 15.995 min Scan# 1614
Delta R.T. 0.020 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16



Tgt Ion:330 Resp: 105
Ion Ratio Lower Upper
330 100
332 95.2 76.8 115.2
141 0.0 32.2 48.2#





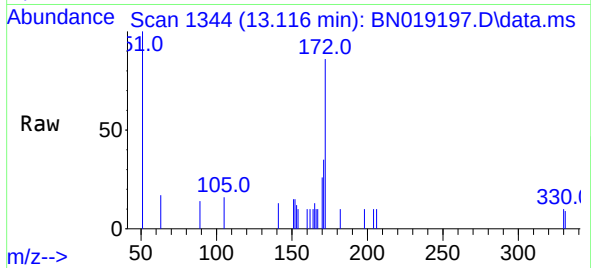
#15
2-Fluorobiphenyl
Concen: 0.039 ng
RT: 13.116 min Scan# 1344
Delta R.T. 0.011 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

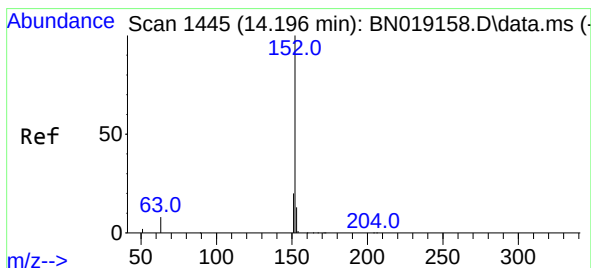
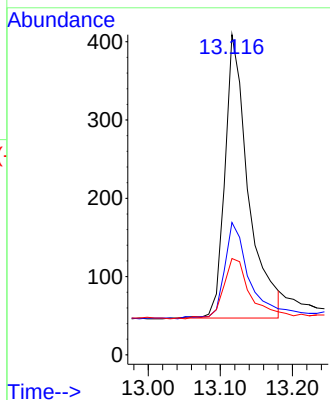
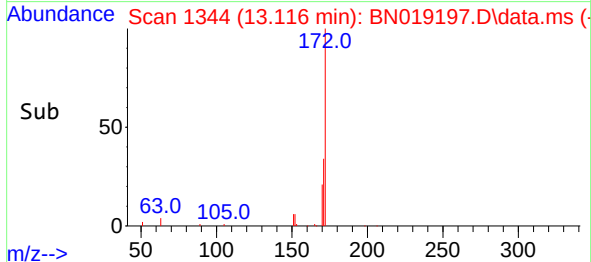


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Ion Ratio Lower Upper
172 100
171 41.3 28.2 42.2
170 30.1 18.7 28.1

Manual Integrations

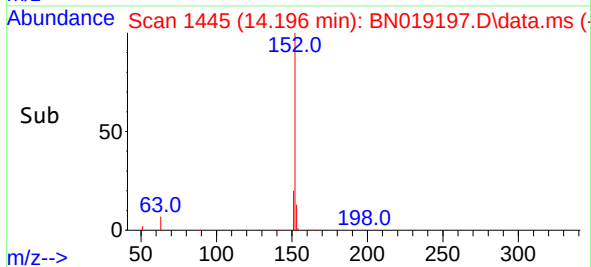
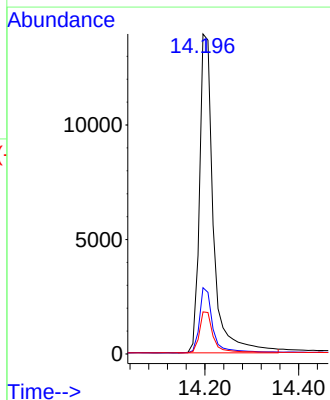
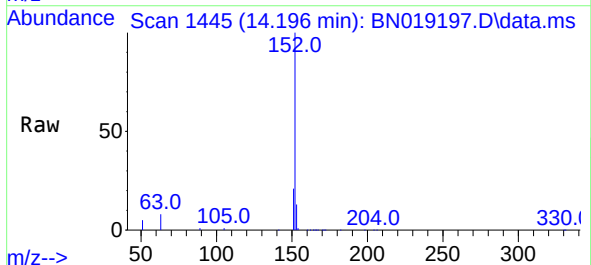
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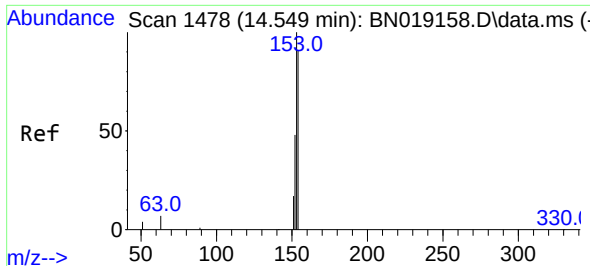
Reviewed By :Christian Giraldo 03/29/2022
Supervised By :Jagrut Upadhyay 03/29/2022



#16
Acenaphthylene
Concen: 1.253 ng
RT: 14.196 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

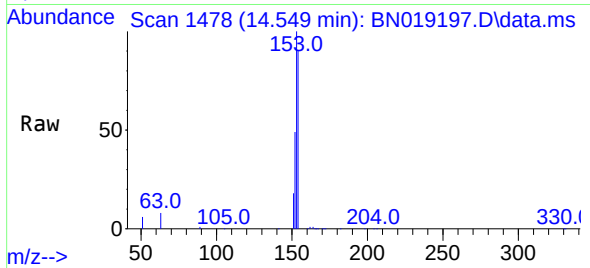
Tgt Ion:152 Resp: 28720
Ion Ratio Lower Upper
152 100
151 19.9 15.9 23.9
153 13.0 10.6 15.8





#17
Acenaphthene
Concen: 1.705 ng
RT: 14.549 min Scan# 1478
Delta R.T. -0.000 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

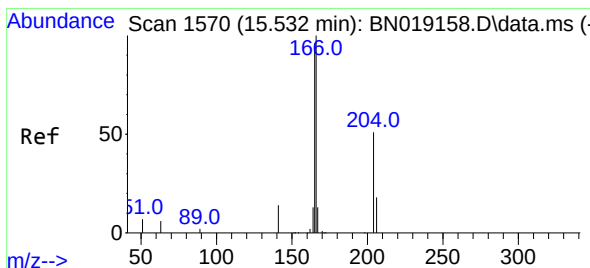
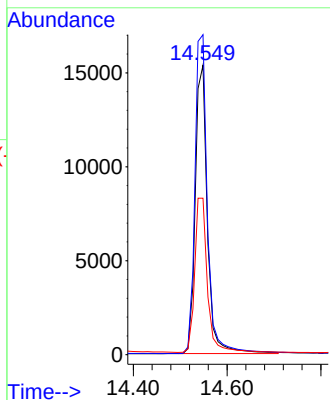
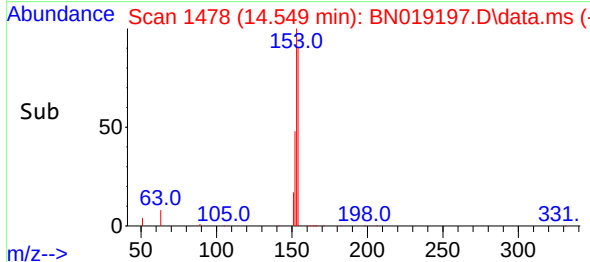
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:154 Resp: 2767
Ion Ratio Lower Upper
154 100
153 113.9 89.7 134.5
152 55.7 44.7 67.1

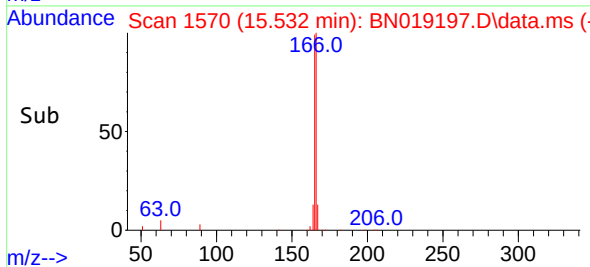
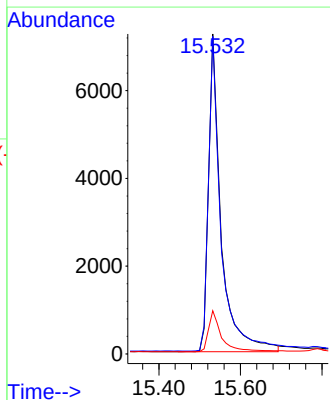
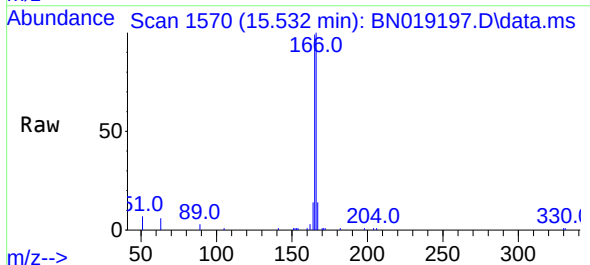
Manual Integrations
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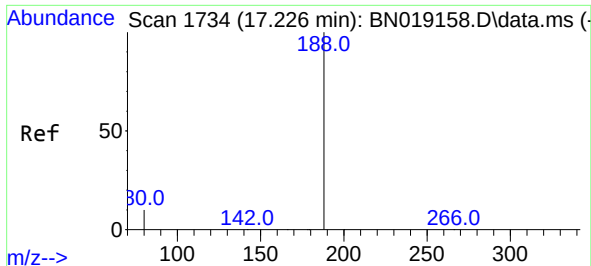
Reviewed By :Christian Giraldo 03/29/2022
Supervised By :Jagrut Upadhyay 03/29/2022



#18
Fluorene
Concen: 0.756 ng
RT: 15.532 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

Tgt Ion:166 Resp: 15622
Ion Ratio Lower Upper
166 100
165 98.2 79.2 118.8
167 13.4 10.7 16.1





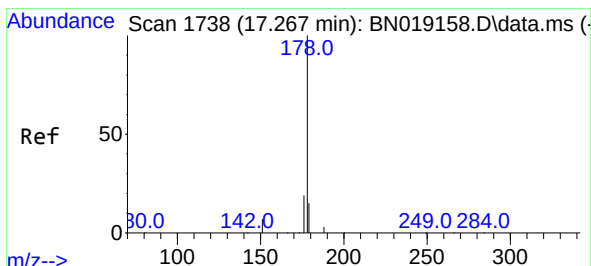
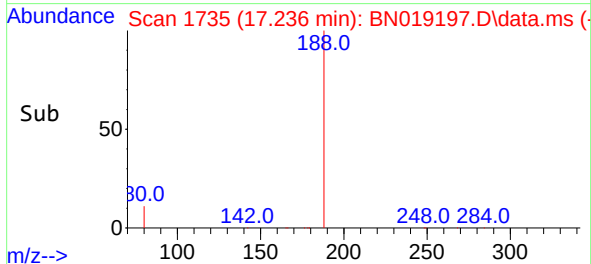
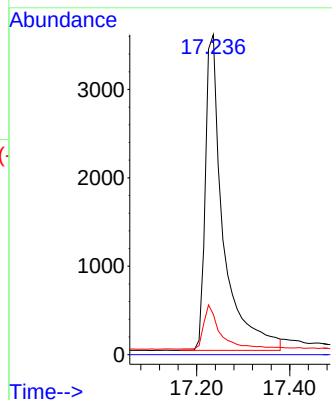
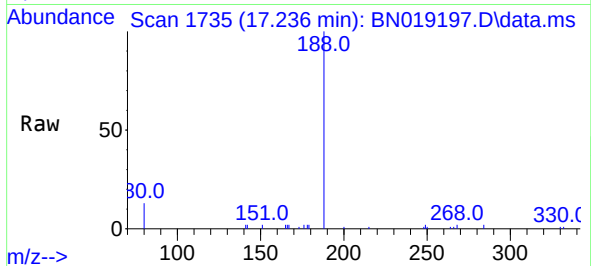
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.236 min Scan# 1734
Delta R.T. 0.010 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tgt Ion:188 Resp: 956
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.6 11.8 17.8

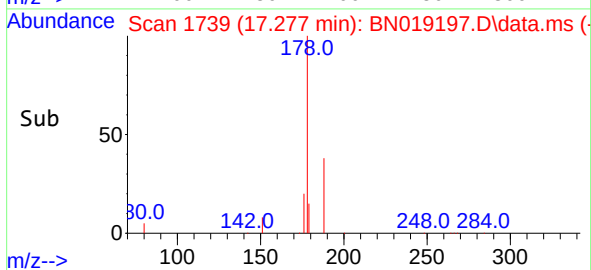
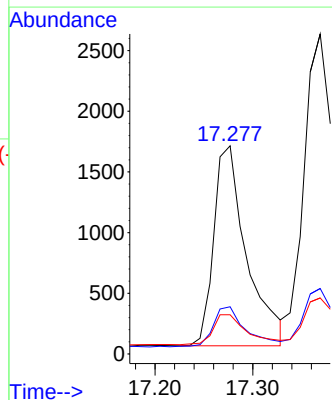
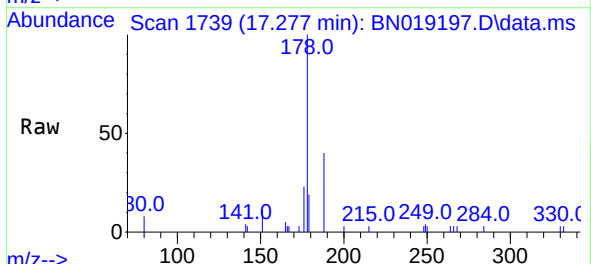
Manual Integrations
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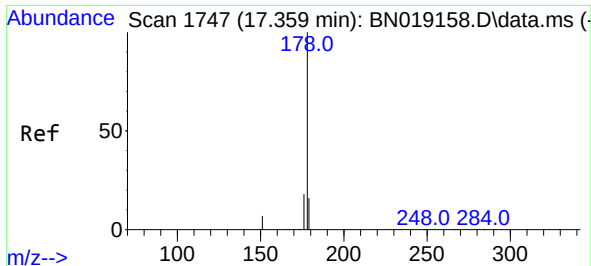
Reviewed By :Christian Giraldo 03/29/2022
Supervised By :Jagrut Upadhyay 03/29/2022



#25
Phenanthrene
Concen: 0.126 ng
RT: 17.277 min Scan# 1739
Delta R.T. 0.010 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

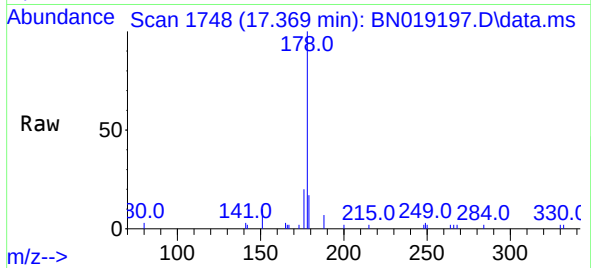
Tgt Ion:178 Resp: 3852
Ion Ratio Lower Upper
178 100
176 20.4 15.4 23.0
179 16.5 12.2 18.2





#26
 Anthracene
 Concen: 0.273 ng
 RT: 17.369 min Scan# 11
 Delta R.T. 0.010 min
 Lab File: BN019197.D
 Acq: 28 Mar 2022 16:16

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

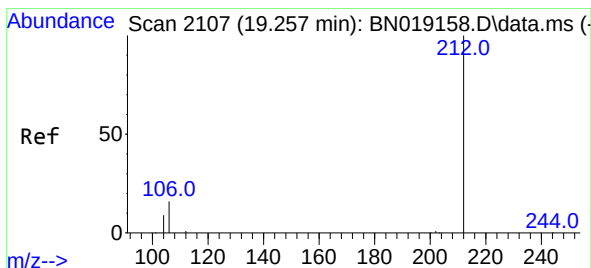
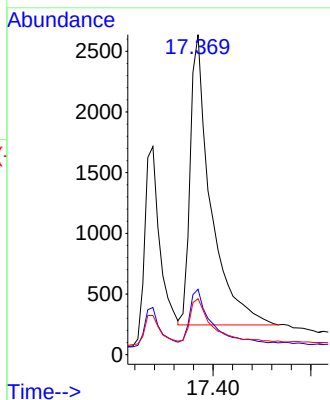
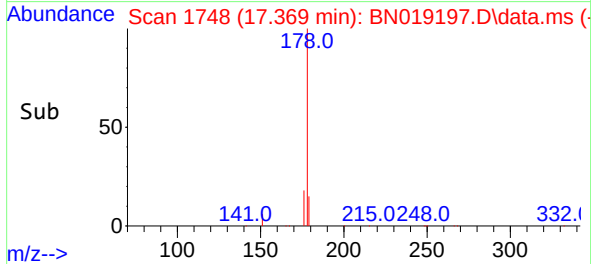


Tgt Ion:178 Resp: 694

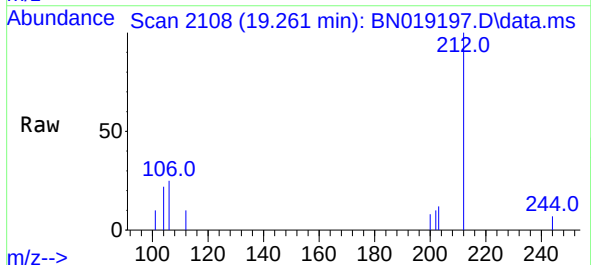
Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.8	22.2
179	15.1	12.2	18.4

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 Supervised By :Jagrut Upadhyay 03/29/2022

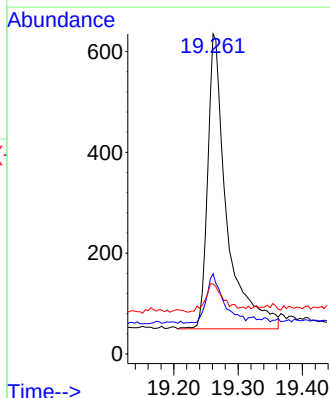
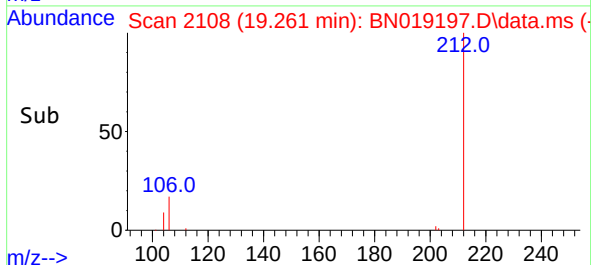


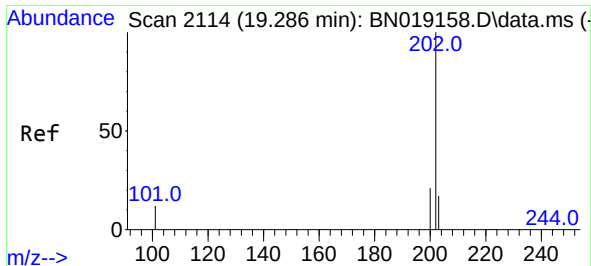
#27
 Fluoranthene-d10
 Concen: 0.043 ng
 RT: 19.261 min Scan# 2108
 Delta R.T. 0.004 min
 Lab File: BN019197.D
 Acq: 28 Mar 2022 16:16



Tgt Ion:212 Resp: 1201

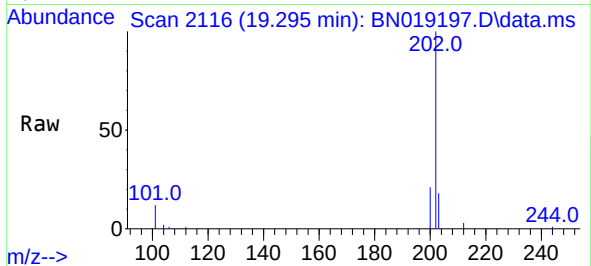
Ion	Ratio	Lower	Upper
212	100		
106	14.5	12.7	19.1
104	9.3	7.1	10.7





#28
Fluoranthene
Concen: 0.327 ng
RT: 19.295 min Scan# 2114
Delta R.T. 0.008 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

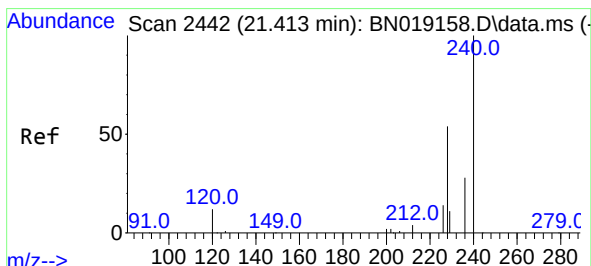
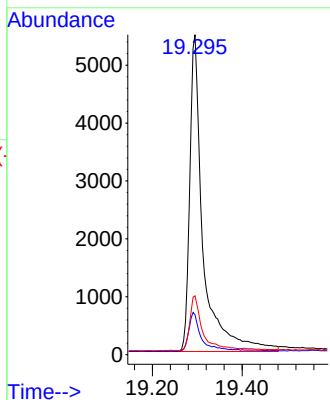
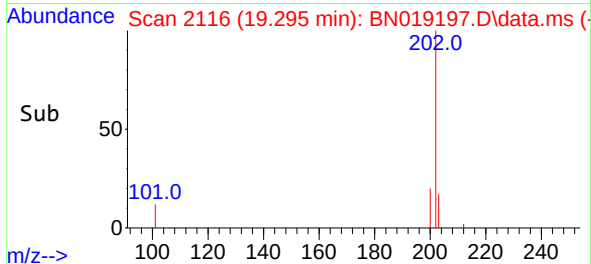
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



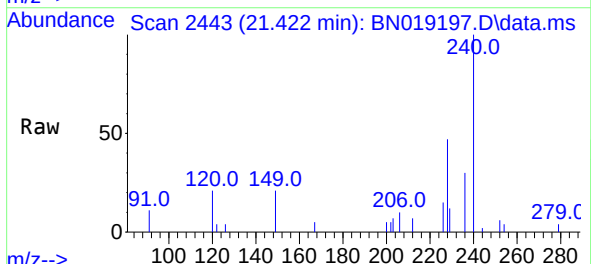
Tgt Ion:202 Resp: 1134
Ion Ratio Lower Upper
202 100
101 11.8 9.8 14.6
203 16.5 13.7 20.5

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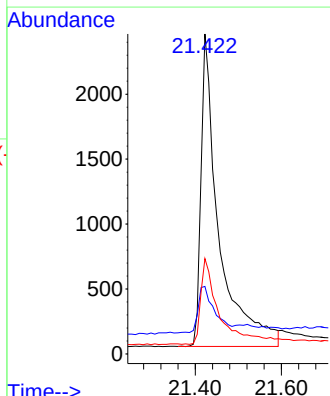
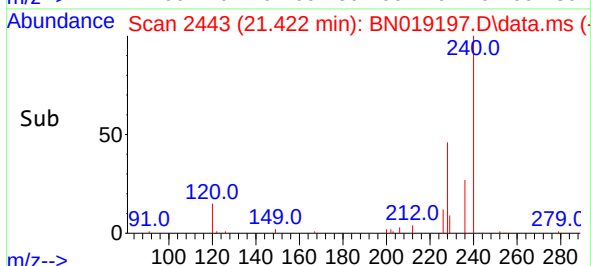
Reviewed By :Christian Giraldo 03/29/2022
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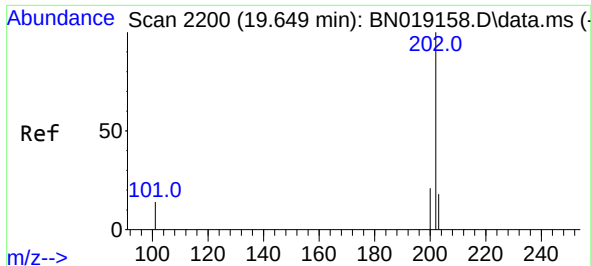


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.422 min Scan# 2443
Delta R.T. 0.009 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16



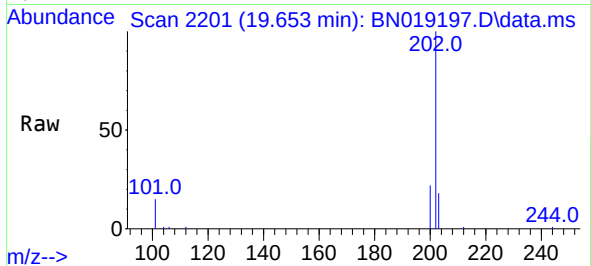
Tgt Ion:240 Resp: 6957
Ion Ratio Lower Upper
240 100
120 21.1 8.5 12.7#
236 29.8 22.4 33.6





#30
 Pyrene
 Concen: 0.479 ng
 RT: 19.653 min Scan# 21
 Delta R.T. 0.004 min
 Lab File: BN019197.D
 Acq: 28 Mar 2022 16:16

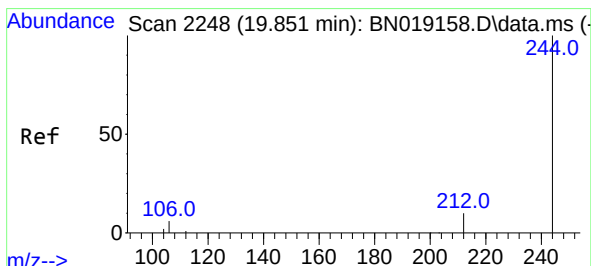
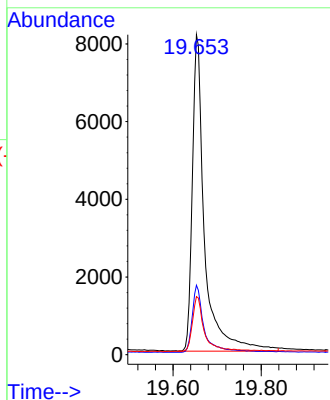
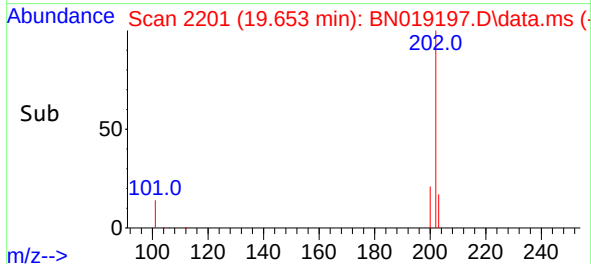
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL



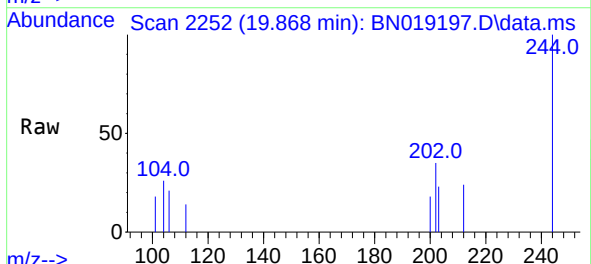
Tgt Ion:202 Resp: 15730
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.9 25.3
 203 16.9 14.2 21.2

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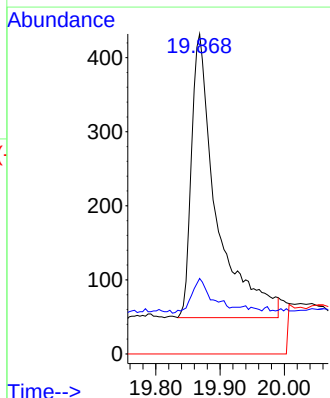
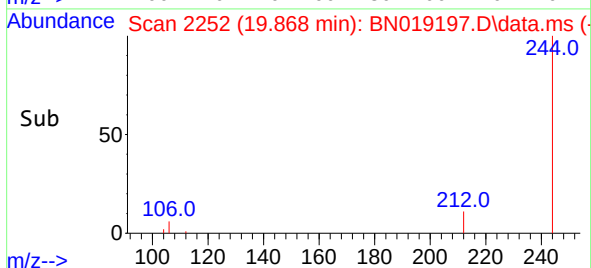
Reviewed By :Christian Giraldo 03/29/2022
 Supervised By :Jagrut Upadhyay 03/29/2022

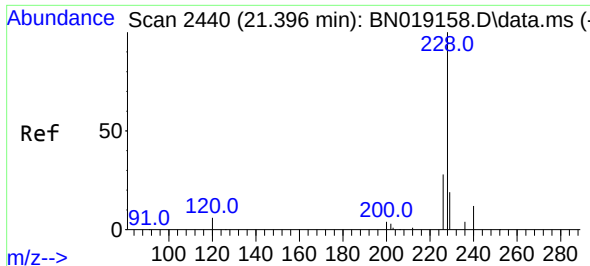


#31
 Terphenyl-d14
 Concen: 0.067 ng
 RT: 19.868 min Scan# 2252
 Delta R.T. 0.017 min
 Lab File: BN019197.D
 Acq: 28 Mar 2022 16:16



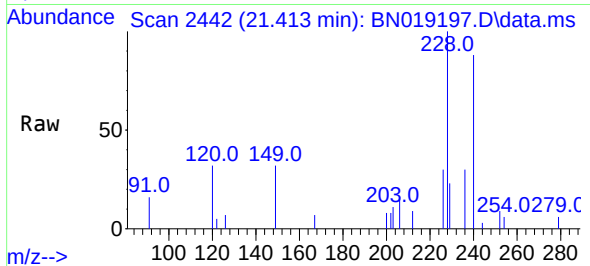
Tgt Ion:244 Resp: 1035
 Ion Ratio Lower Upper
 244 100
 212 23.6 8.2 12.4#
 122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 0.157 ng
RT: 21.413 min Scan# 2442
Delta R.T. 0.018 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

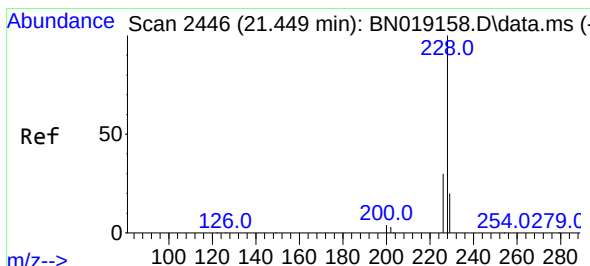
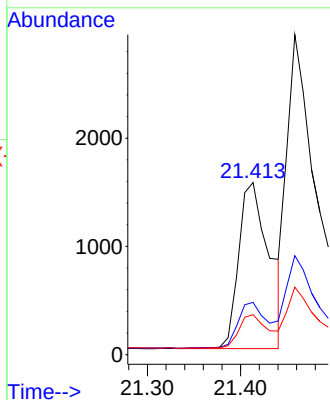
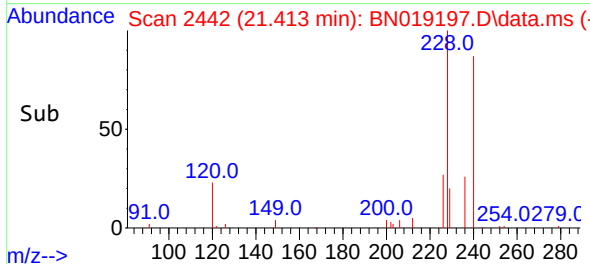
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:228 Resp: 3500
Ion Ratio Lower Upper
228 100
226 30.4 21.9 32.9
229 23.2 16.0 24.0

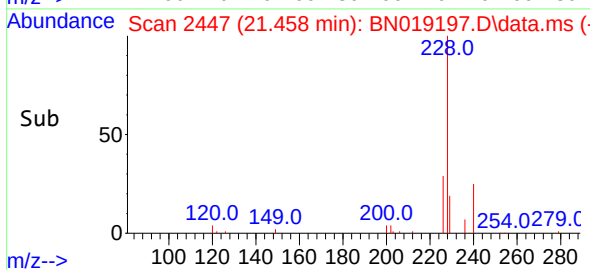
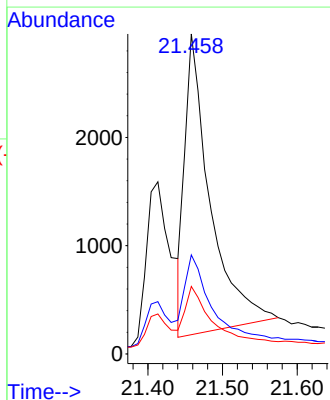
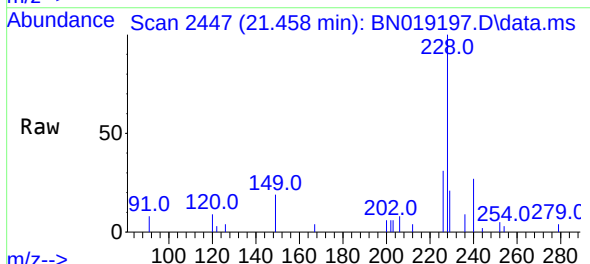
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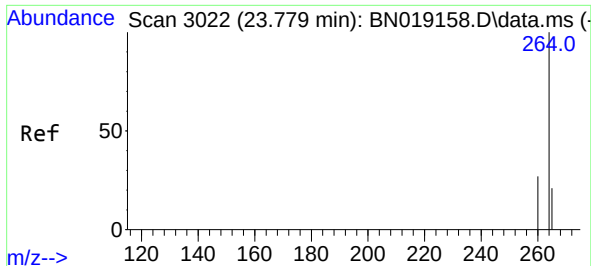
Reviewed By :Christian Giraldo 03/29/2022
Supervised By :Jagrut Upadhyay 03/29/2022



#33
Chrysene
Concen: 0.228 ng
RT: 21.458 min Scan# 2447
Delta R.T. 0.009 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

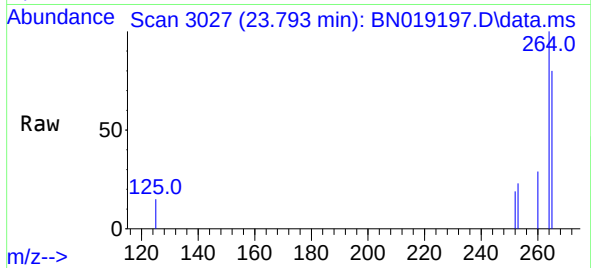
Tgt Ion:228 Resp: 6525
Ion Ratio Lower Upper
228 100
226 30.9 24.0 36.0
229 21.1 15.9 23.9





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.793 min Scan# 3022
Delta R.T. 0.015 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

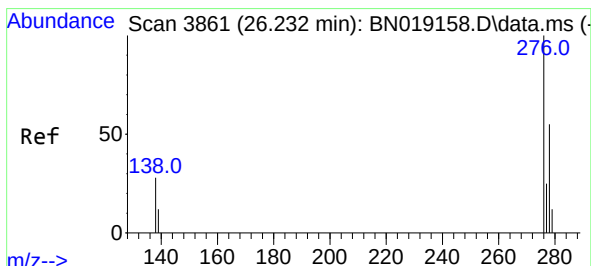
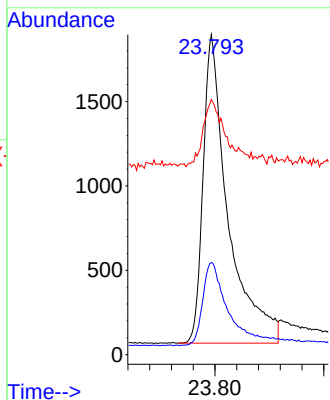
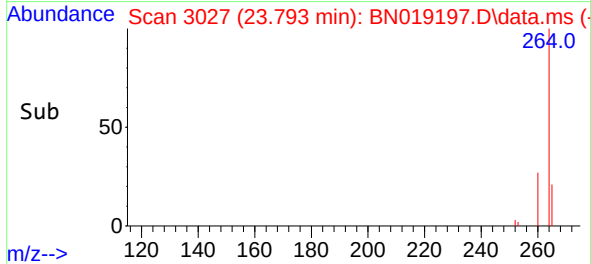
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



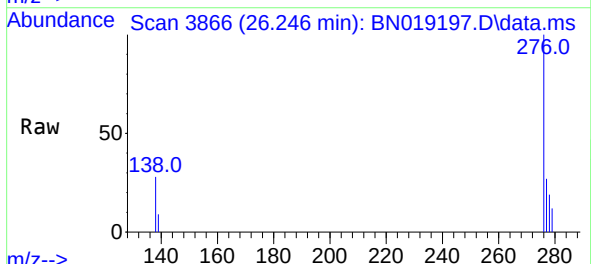
Tgt Ion:264 Resp: 581
Ion Ratio Lower Upper
264 100
260 28.8 22.4 33.6
265 79.7 25.3 37.9

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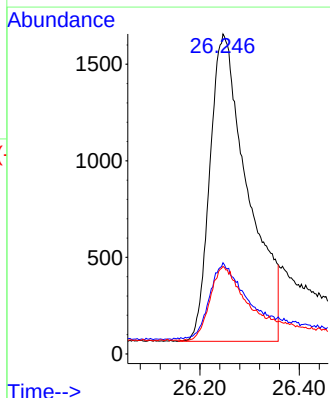
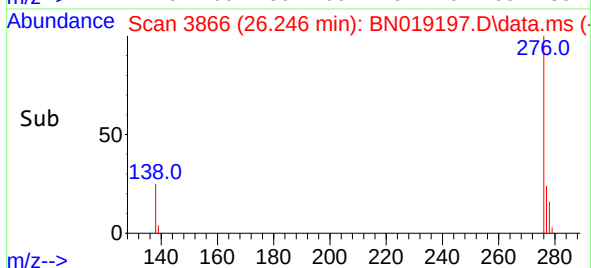
Reviewed By :Christian Giraldo 03/29/2022
Supervised By :Jagrut Upadhyay 03/29/2022

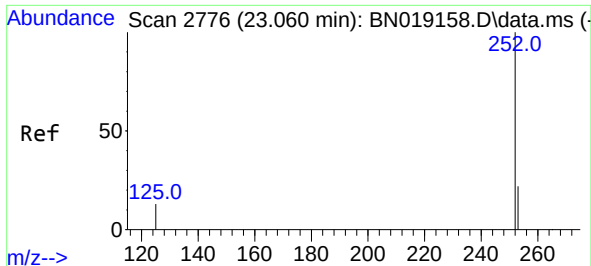


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.364 ng
RT: 26.246 min Scan# 3866
Delta R.T. 0.015 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16



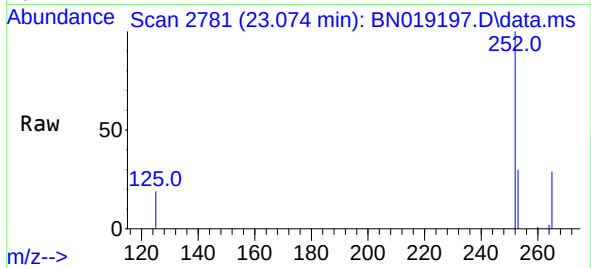
Tgt Ion:276 Resp: 8455
Ion Ratio Lower Upper
276 100
138 23.6 24.5 36.7#
277 22.4 19.8 29.8





#37
Benzo(b)fluoranthene
Concen: 0.323 ng
RT: 23.074 min Scan# 2776
Delta R.T. 0.015 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

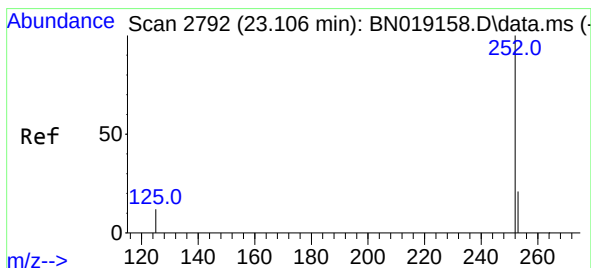
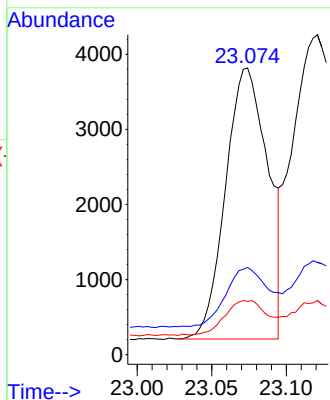
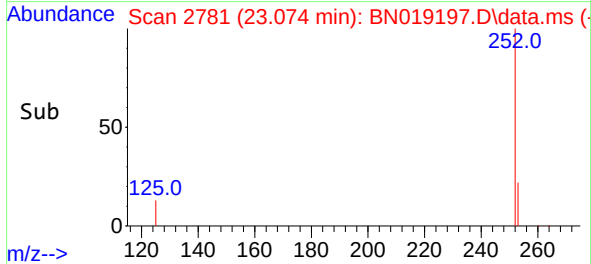
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



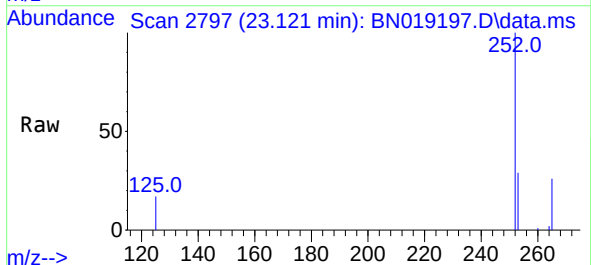
Tgt Ion:252 Resp: 7142
Ion Ratio Lower Upper
252 100
253 30.4 18.9 28.3#
125 18.6 12.1 18.1#

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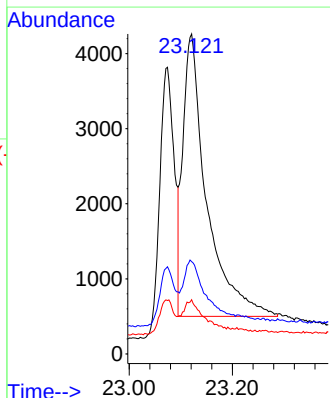
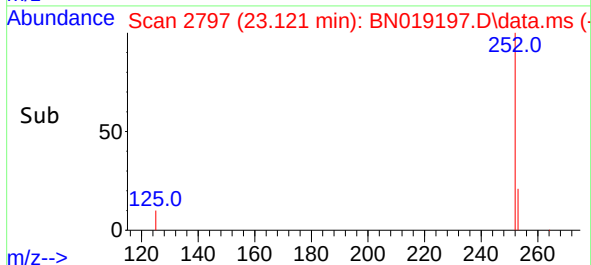
Reviewed By :Christian Giraldo 03/29/2022
Supervised By :Jagrut Upadhyay 03/29/2022

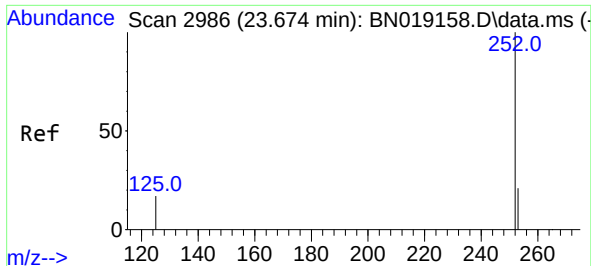


#38
Benzo(k)fluoranthene
Concen: 0.428 ng m
RT: 23.121 min Scan# 2797
Delta R.T. 0.015 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16



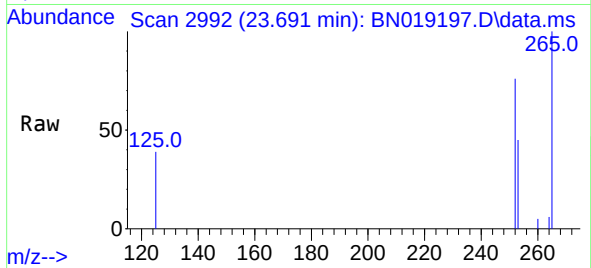
Tgt Ion:252 Resp: 11985
Ion Ratio Lower Upper
252 100
253 28.8 18.9 28.3#
125 17.0 10.3 15.5#





#39
Benzo(a)pyrene
Concen: 0.103 ng
RT: 23.691 min Scan# 2992
Delta R.T. 0.017 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16

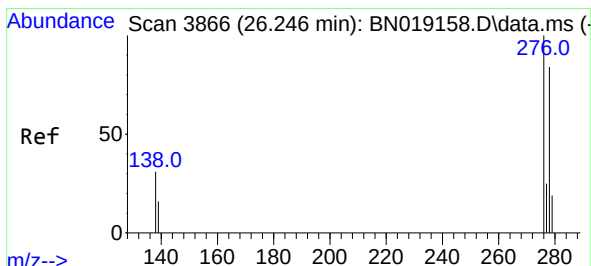
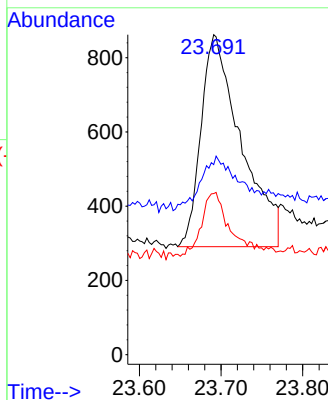
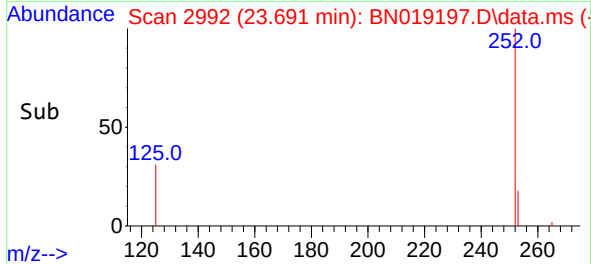
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



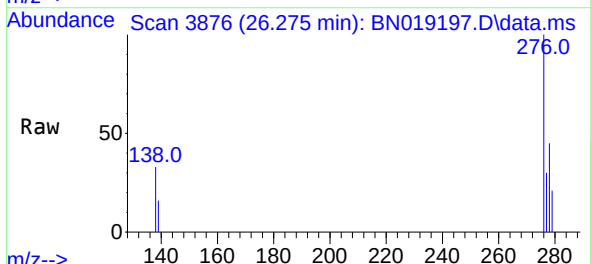
Tgt Ion:252 Resp: 1945
Ion Ratio Lower Upper
252 100
253 59.4 20.1 30.1#
125 50.3 15.2 22.8#

Manual Integrations
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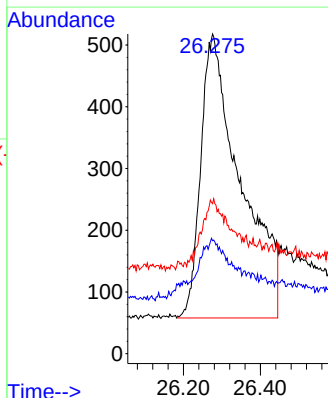
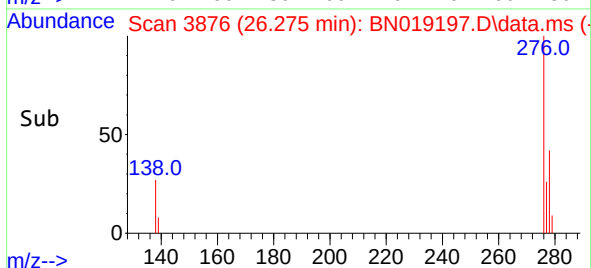
Reviewed By :Christian Giraldo 03/29/2022
Supervised By :Jagrut Upadhyay 03/29/2022

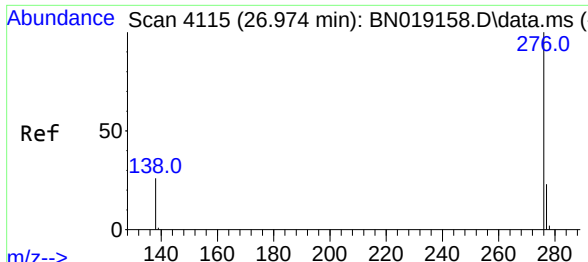


#40
Dibenzo(a,h)anthracene
Concen: 0.189 ng m
RT: 26.275 min Scan# 3876
Delta R.T. 0.029 min
Lab File: BN019197.D
Acq: 28 Mar 2022 16:16



Tgt Ion:278 Resp: 3308
Ion Ratio Lower Upper
278 100
139 35.3 17.2 25.8#
279 46.9 19.9 29.9#





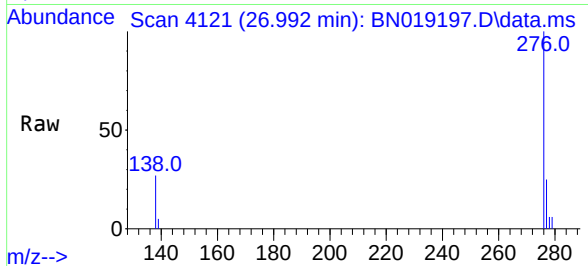
#41
 Benzo(g,h,i)perylene
 Concen: 0.524 ng
 RT: 26.992 min Scan# 41
 Delta R.T. 0.017 min
 Lab File: BN019197.D
 Acq: 28 Mar 2022 16:16

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL



Tgt Ion:	276	Resp:	1255
Ion Ratio	Lower	Upper	
276	100		
277	24.6	19.4	29.0
138	27.4	21.0	31.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/29/2022
 Supervised By :Jagrut Upadhyay 03/29/2022

