

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
 Data File : BN025341.D
 Acq On : 08 May 2023 20:10
 Operator : CG/JU
 Sample : 02588-14
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PILE-A-UNK-05022023

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 05/09/2023
 Supervised By :Jagrut Upadhyay 05/09/2023

Quant Time: May 09 04:04:05 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 08 18:27:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.904	152	5497	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	17654	0.400	ng	0.00
13) Acenaphthene-d10	14.544	164	11231	0.400	ng	0.00
19) Phenanthrene-d10	17.298	188	25269	0.400	ng	0.00
29) Chrysene-d12	21.495	240	25813	0.400	ng	0.00
35) Perylene-d12	23.914	264	26303	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.463	112	3312	0.248	ng	0.00
5) Phenol-d6	7.080	99	4367	0.260	ng	0.00
8) Nitrobenzene-d5	9.073	82	2920	0.201	ng	-0.01
11) 2-Methylnaphthalene-d10	12.302	152	5336	0.221	ng	0.00
14) 2,4,6-Tribromophenol	16.045	330	1239	0.216	ng	-0.01
15) 2-Fluorobiphenyl	13.176	172	8091	0.210	ng	0.00
27) Fluoranthene-d10	19.329	212	12179	0.195	ng	0.00
31) Terphenyl-d14	19.924	244	9401	0.181	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.760	128	33669	0.743	ng	99
12) 2-Methylnaphthalene	12.377	142	11344	0.354	ng	99
16) Acenaphthylene	14.266	152	10430	0.207	ng	99
17) Acenaphthene	14.608	154	2679	0.086	ng	97
18) Fluorene	15.603	166	4855	0.113	ng	# 95
25) Phenanthrene	17.336	178	58353	0.835	ng	99
26) Anthracene	17.435	178	13275	0.203	ng	98
28) Fluoranthene	19.359	202	130868	1.498	ng	99
30) Pyrene	19.722	202	120323	1.364	ng	# 96
32) Benzo(a)anthracene	21.477	228	68548	0.786	ng	97
33) Chrysene	21.531	228	71682	0.825	ng	97
34) Bis(2-ethylhexyl)phtha...	21.387	149	9970	0.146	ng	98
36) Indeno(1,2,3-cd)pyrene	26.426	276	34899	0.331	ng	95
37) Benzo(b)fluoranthene	23.177	252	86703	1.040	ng	# 96
38) Benzo(k)fluoranthene	23.218	252	33851m	0.388	ng	
39) Benzo(a)pyrene	23.806	252	61475	0.720	ng	97
40) Dibenzo(a,h)anthracene	26.437	278	9077	0.109	ng	# 56
41) Benzo(g,h,i)perylene	27.206	276	33824	0.370	ng	96

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

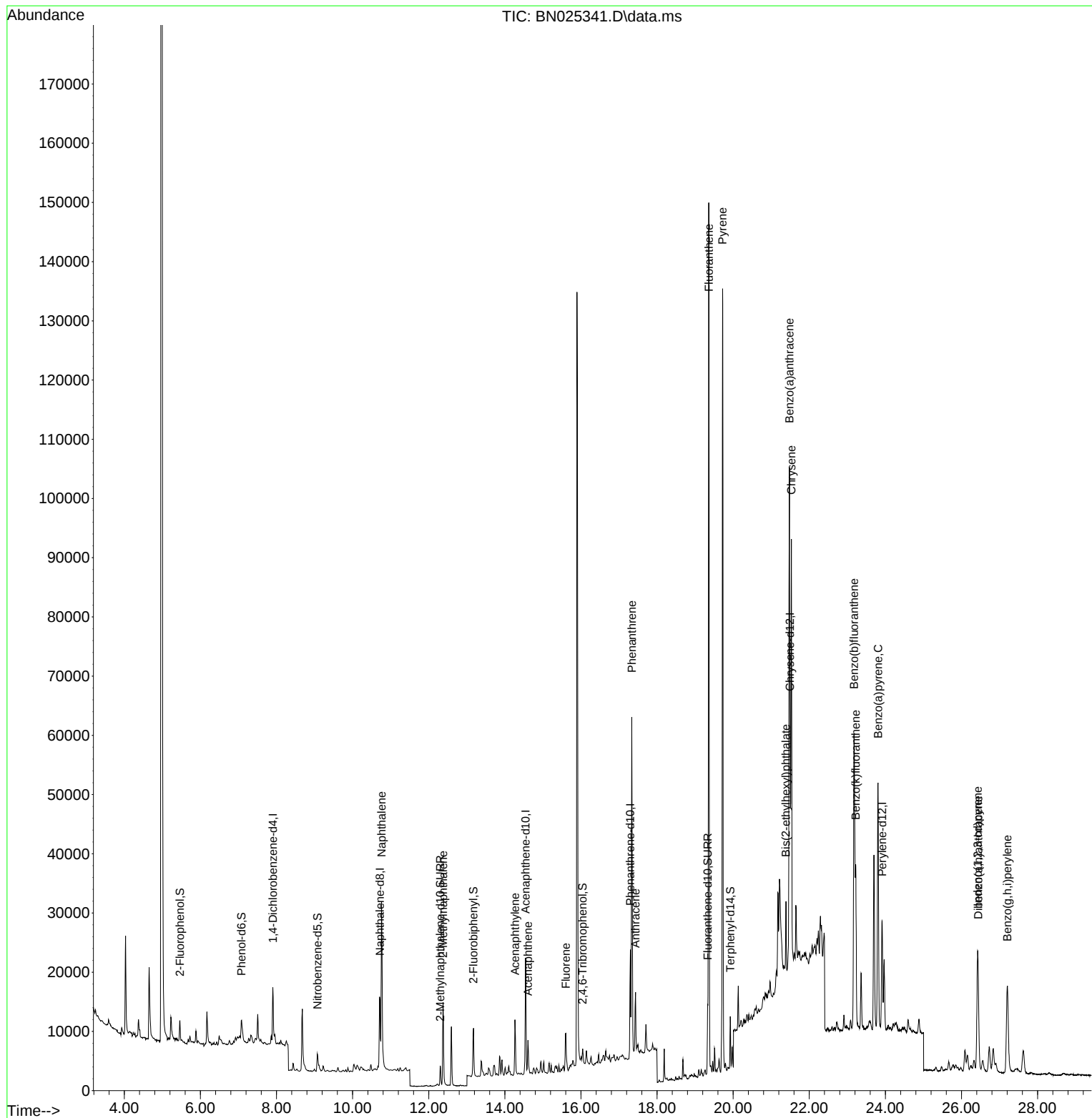
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
Data File : BN025341.D
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ALS Vial : 14 Sample Multiplier: 1

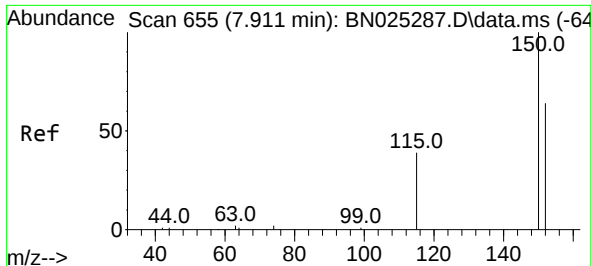
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

Quant Time: May 09 04:04:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 08 18:27:02 2023
Response via : Initial Calibration

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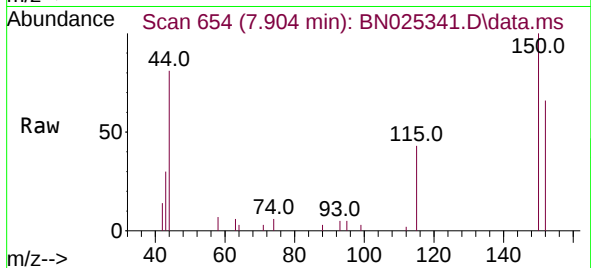
Reviewed By : Christian Giraldo 05/09/2023
Supervised By : Jagrut Upadhyay 05/09/2023





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.904 min Scan# 611
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

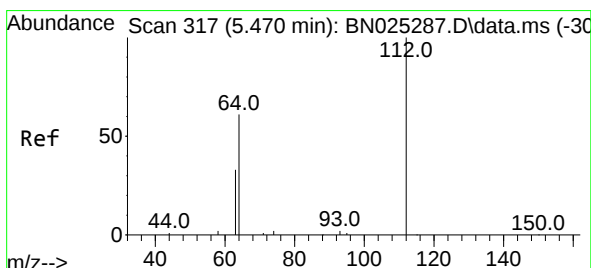
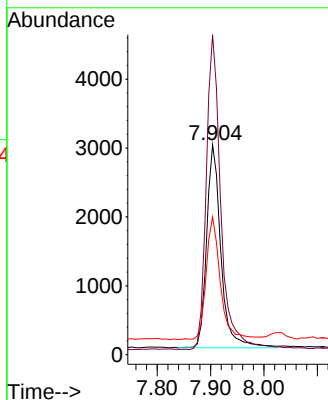
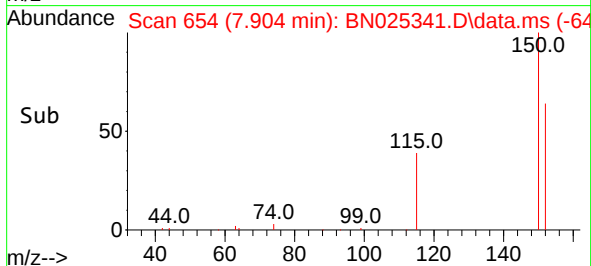
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023



Tgt Ion:152 Resp: 549
Ion Ratio Lower Upper
152 100
150 152.4 123.8 185.8
115 65.6 52.9 79.3

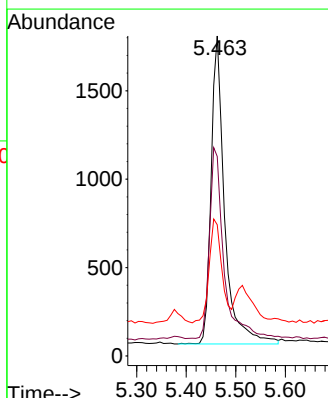
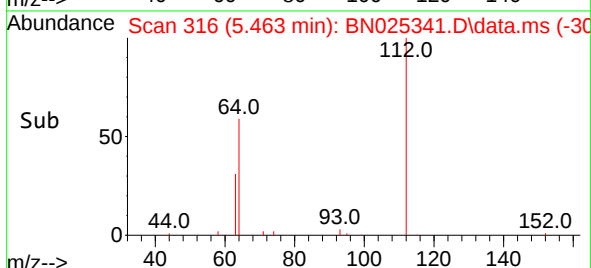
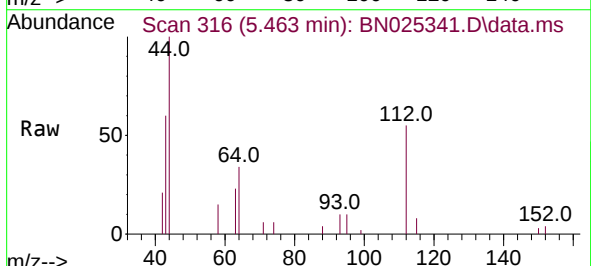
Manual Integrations
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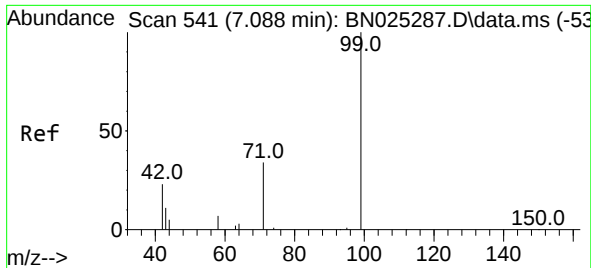
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#4
2-Fluorophenol
Concen: 0.248 ng
RT: 5.463 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

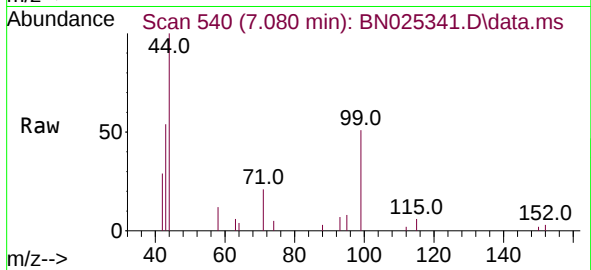
Tgt Ion:112 Resp: 3312
Ion Ratio Lower Upper
112 100
64 65.0 51.5 77.3
63 31.8 27.8 41.6





#5
Phenol-d6
Concen: 0.260 ng
RT: 7.080 min Scan# 541
Delta R.T. 0.007 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

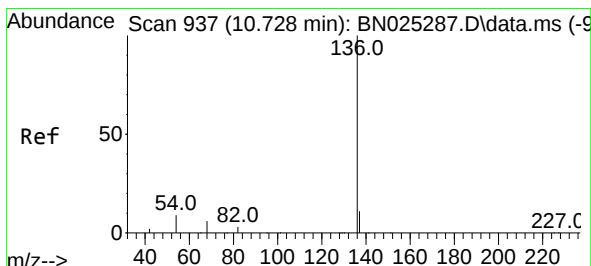
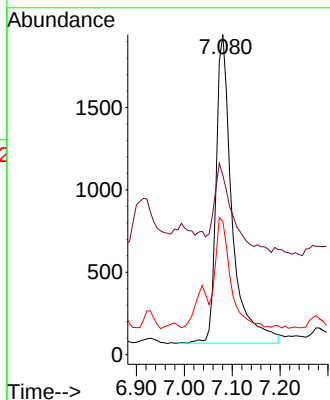
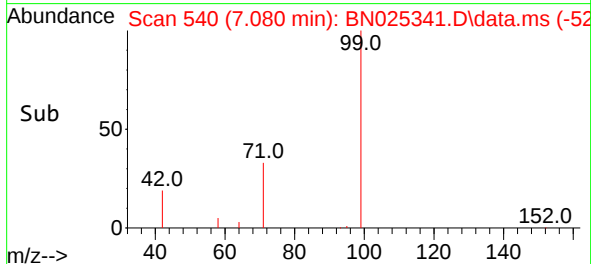
Instrument :
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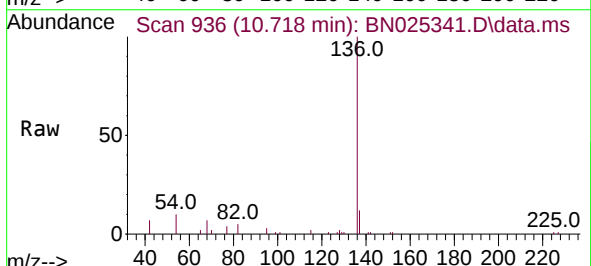
Tgt Ion: 99 Resp: 436
Ion Ratio Lower Upper
99 100
42 32.4 22.0 33.0
71 33.4 28.7 43.1

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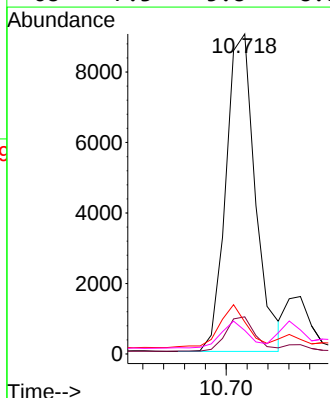
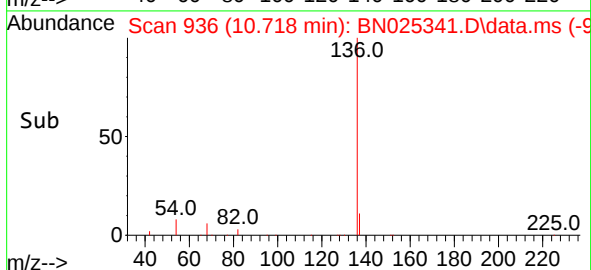
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

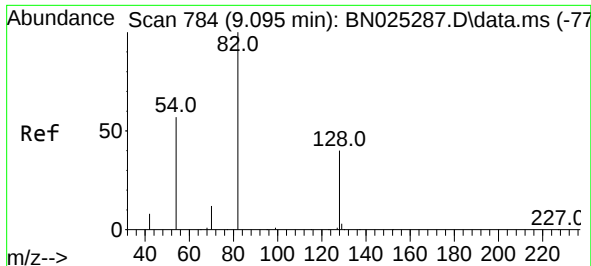


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10



Tgt Ion:136 Resp: 17654
Ion Ratio Lower Upper
136 100
137 11.6 9.4 14.2
54 10.0 8.5 12.7
68 7.3 5.8 8.8





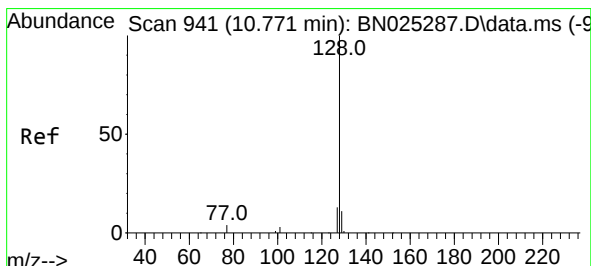
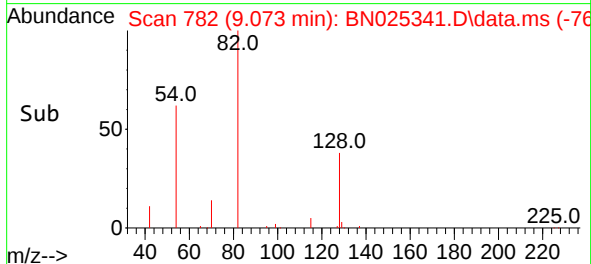
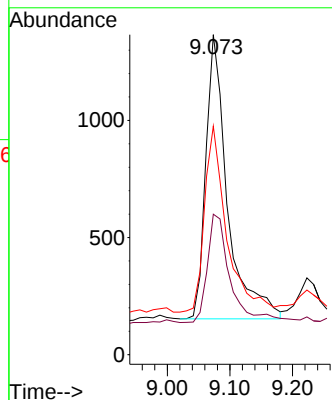
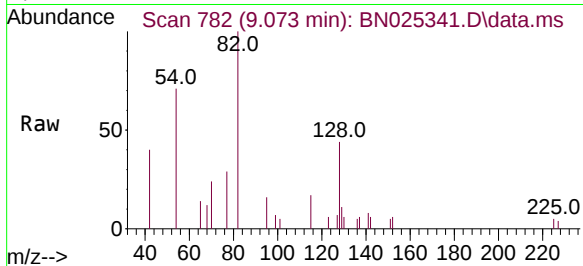
#8
Nitrobenzene-d5
Concen: 0.201 ng
RT: 9.073 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

Tgt Ion: 82 Resp: 2920
Ion Ratio Lower Upper
82 100
128 43.9 35.3 52.9
54 71.4 48.7 73.1

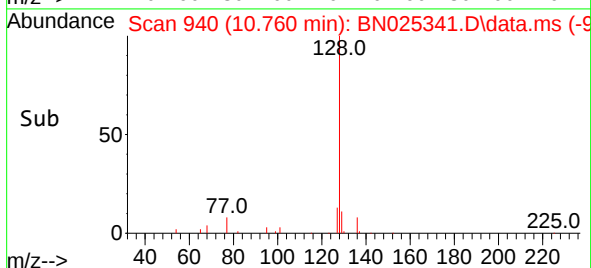
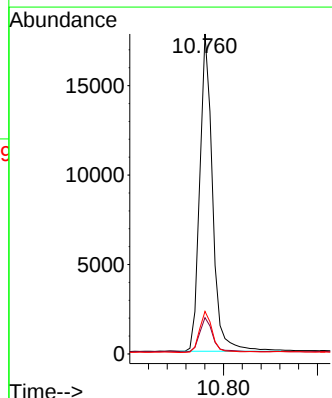
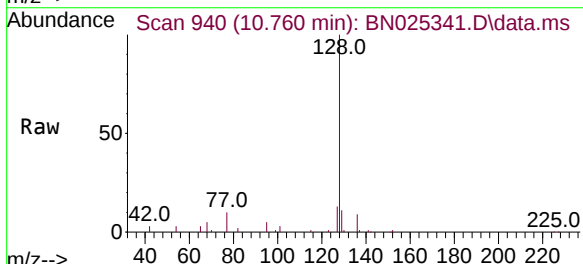
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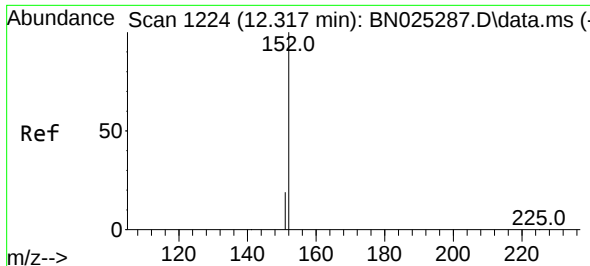
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#9
Naphthalene
Concen: 0.743 ng
RT: 10.760 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

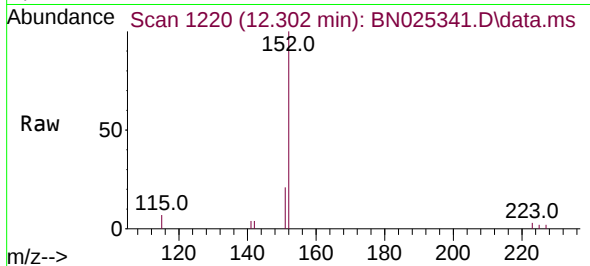
Tgt Ion:128 Resp: 33669
Ion Ratio Lower Upper
128 100
129 11.3 9.4 14.2
127 13.3 11.0 16.6





#11
2-Methylnaphthalene-d10
Concen: 0.221 ng
RT: 12.302 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

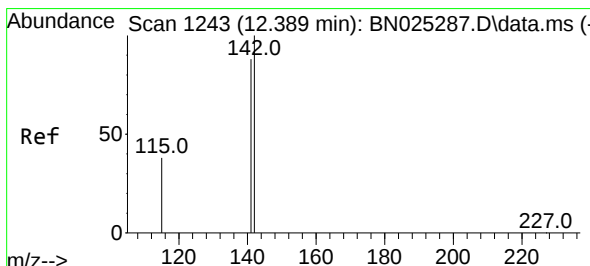
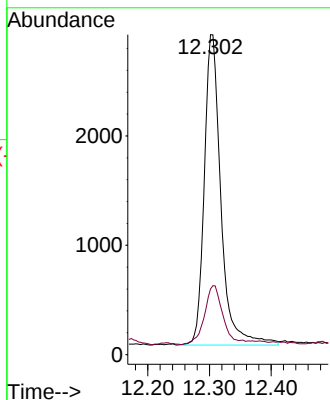
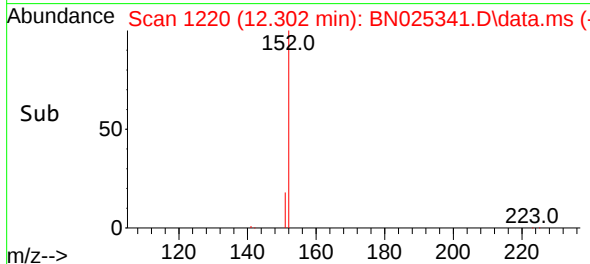
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023



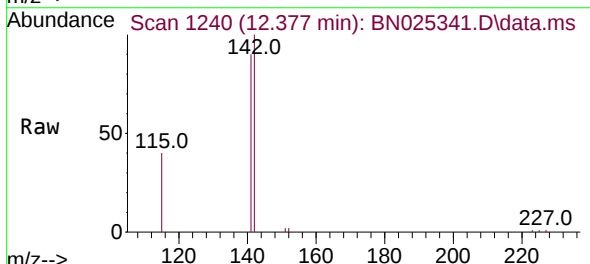
Tgt Ion:152 Resp: 5330
Ion Ratio Lower Upper
152 100
151 21.2 16.4 24.6

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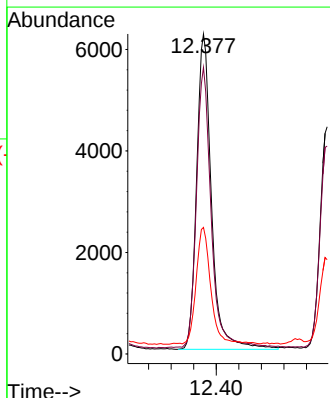
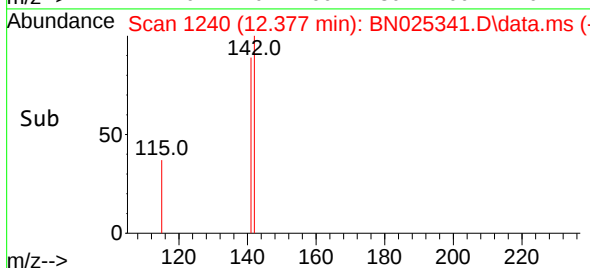
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

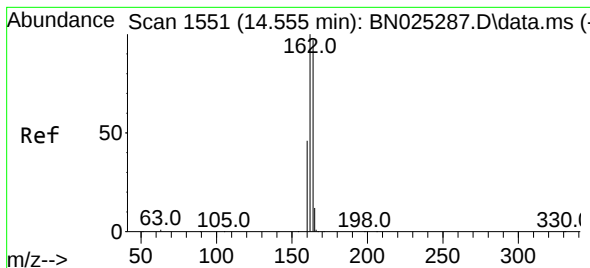


#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.377 min Scan# 1240
Delta R.T. -0.004 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10



Tgt Ion:142 Resp: 11344
Ion Ratio Lower Upper
142 100
141 89.5 70.5 105.7
115 39.5 31.6 47.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.544 min Scan# 1123

Delta R.T. -0.000 min

Lab File: BN025341.D

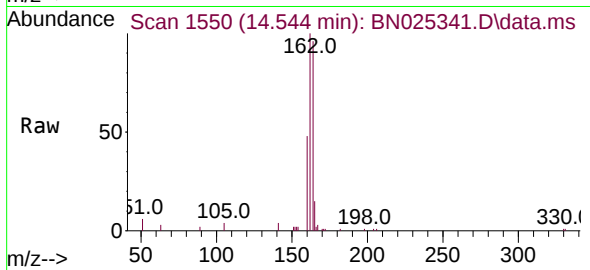
Acq: 08 May 2023 20:10

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023



Tgt Ion:164 Resp: 1123

Ion Ratio Lower Upper

164 100

162 103.9 82.1 123.1

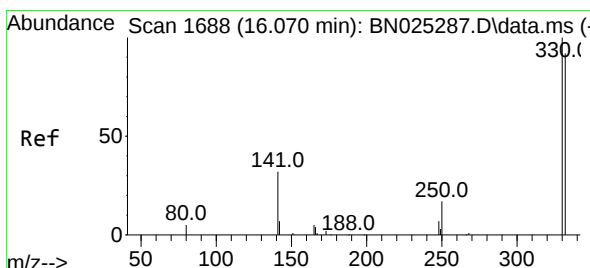
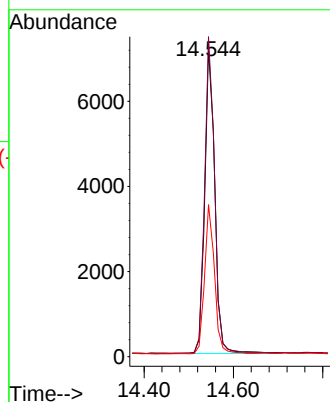
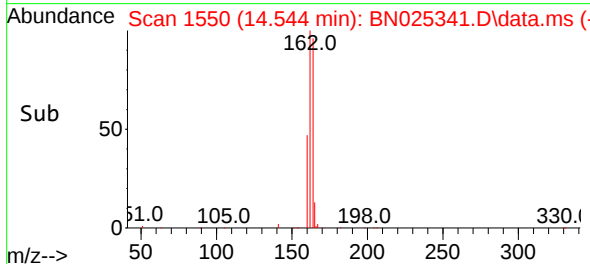
160 49.4 38.3 57.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#14

2,4,6-Tribromophenol

Concen: 0.216 ng

RT: 16.045 min Scan# 1686

Delta R.T. -0.013 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

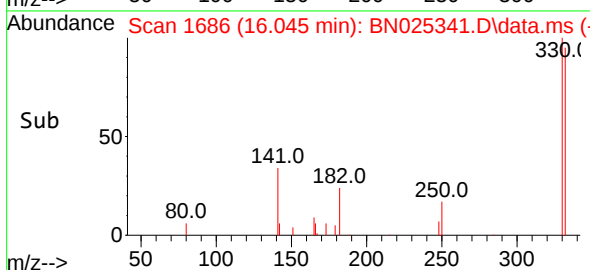
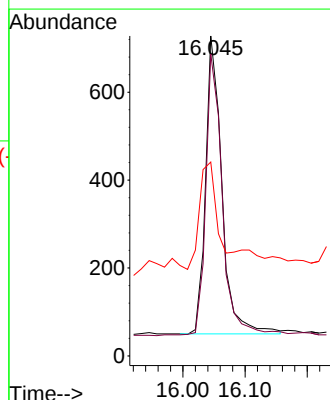
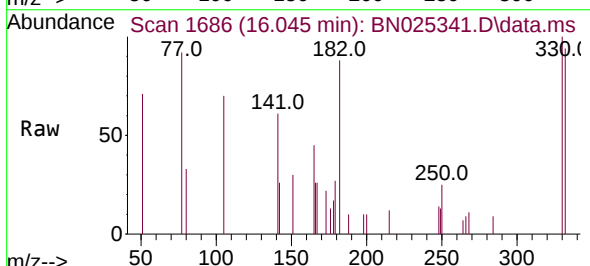
Tgt Ion:330 Resp: 1239

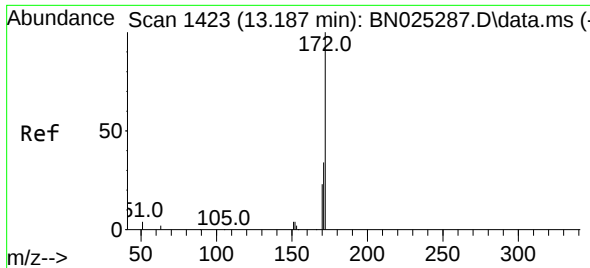
Ion Ratio Lower Upper

330 100

332 94.3 77.4 116.0

141 40.4 28.9 43.3





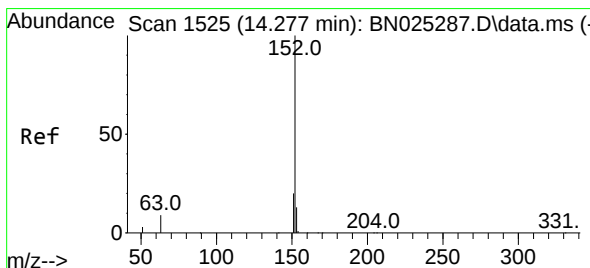
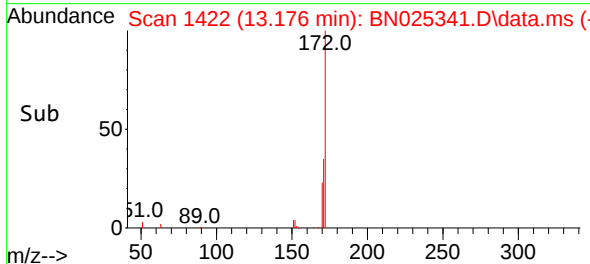
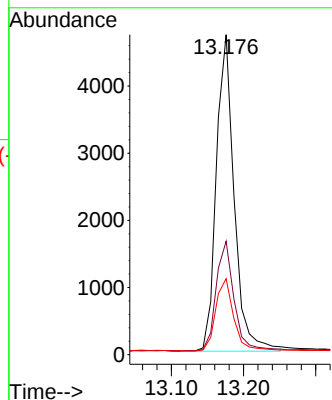
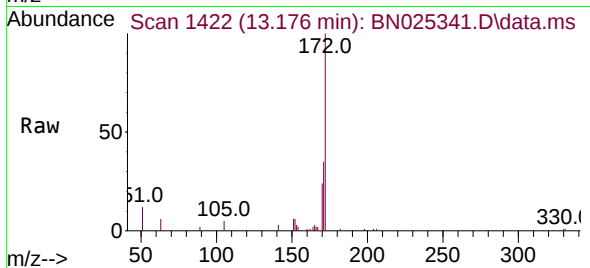
#15
2-Fluorobiphenyl
Concen: 0.210 ng
RT: 13.176 min Scan# 1423
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

Tgt Ion:172 Resp: 809
Ion Ratio Lower Upper
172 100
171 35.4 27.9 41.9
170 23.7 19.0 28.4

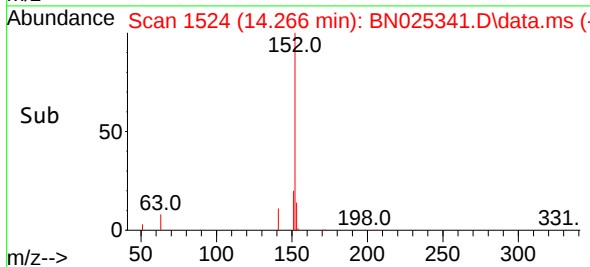
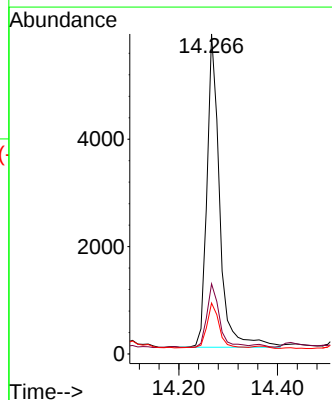
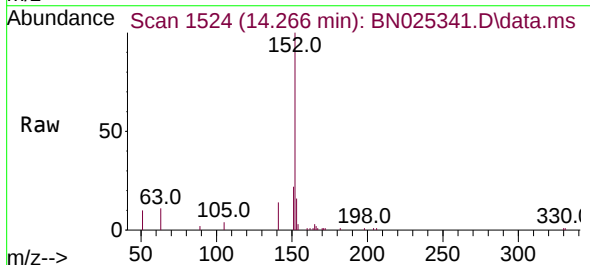
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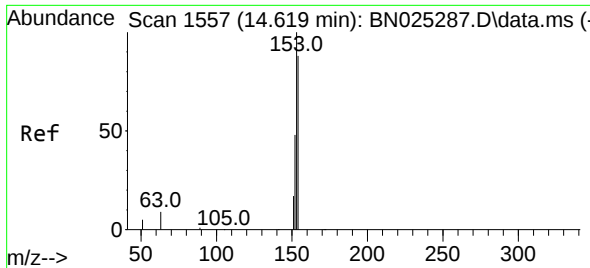
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#16
Acenaphthylene
Concen: 0.207 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

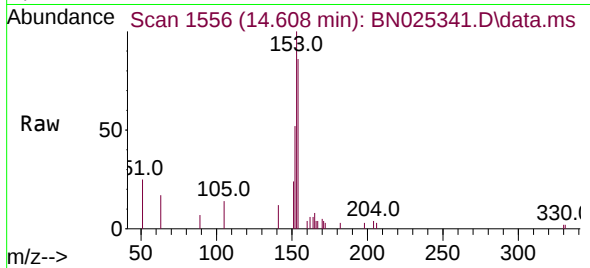
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Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 14.2 10.3 15.5





#17
Acenaphthene
Concen: 0.086 ng
RT: 14.608 min Scan# 1556
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

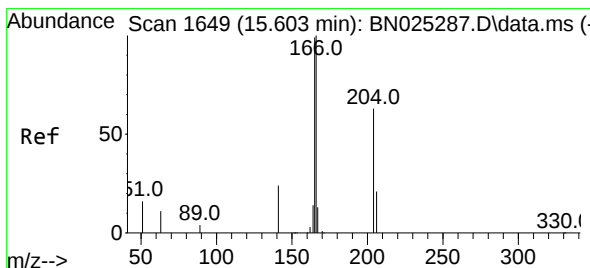
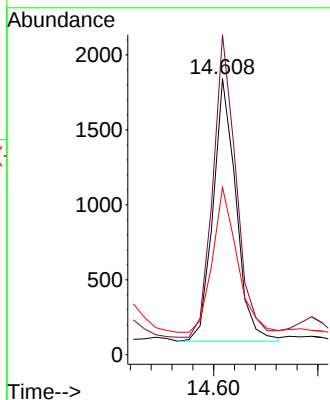
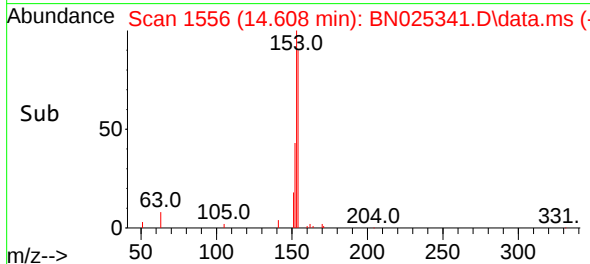
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023



Tgt Ion:154 Resp: 2679
Ion Ratio Lower Upper
154 100
153 117.0 91.3 136.9
152 59.0 44.7 67.1

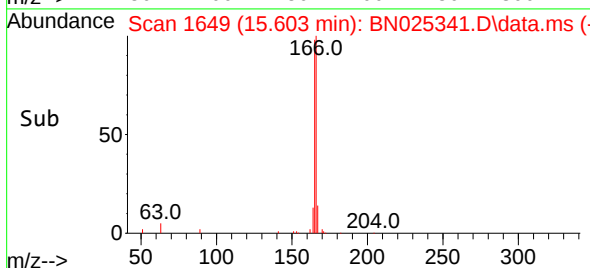
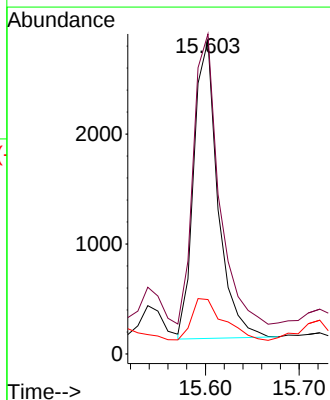
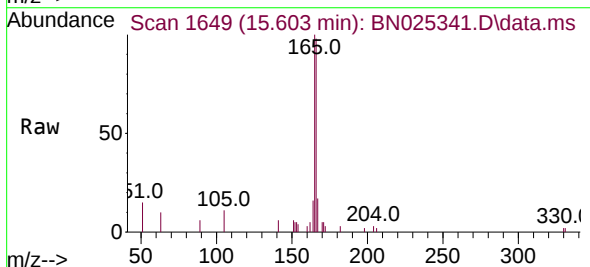
Manual Integrations
APPROVED

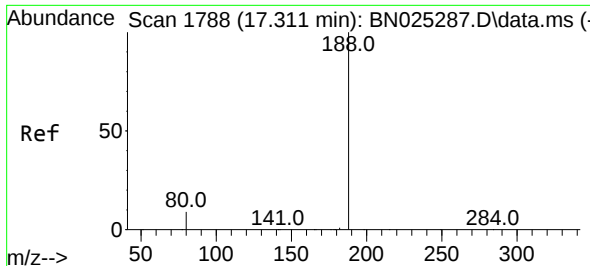
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#18
Fluorene
Concen: 0.113 ng
RT: 15.603 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Tgt Ion:166 Resp: 4855
Ion Ratio Lower Upper
166 100
165 102.1 79.0 118.4
167 18.5 10.3 15.5#





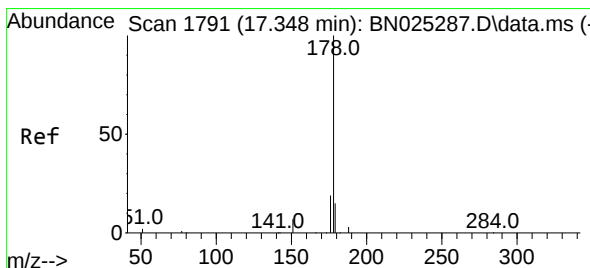
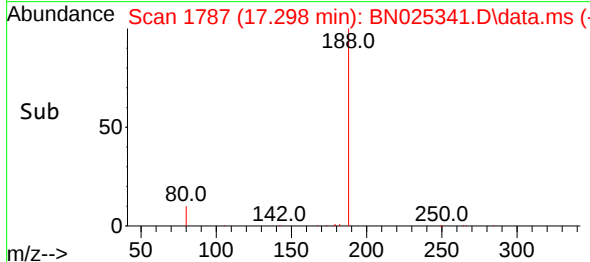
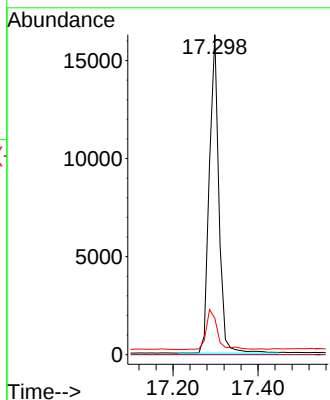
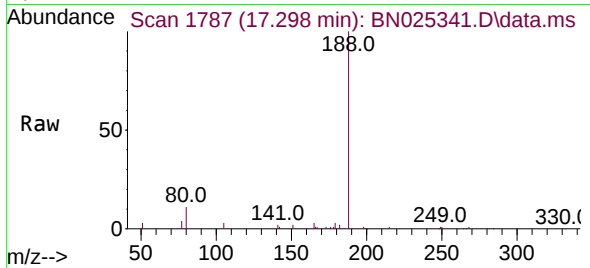
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.298 min Scan# 1788
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

Tgt Ion:188 Resp: 25269
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.3 8.0 12.0

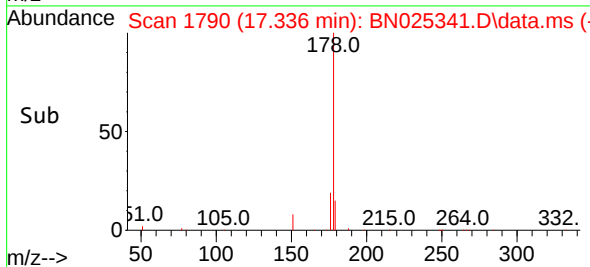
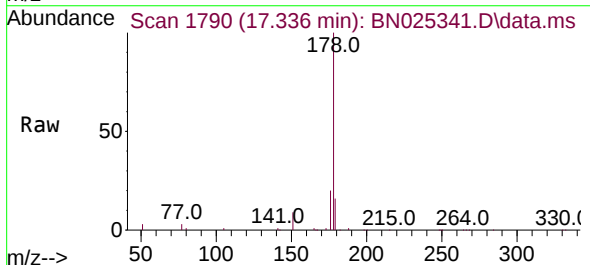
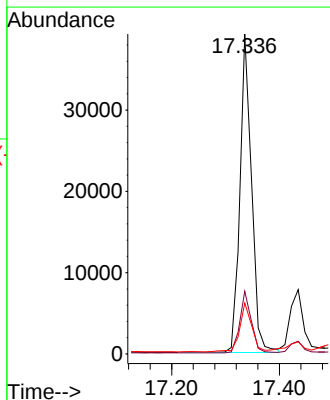
Manual Integrations
APPROVED

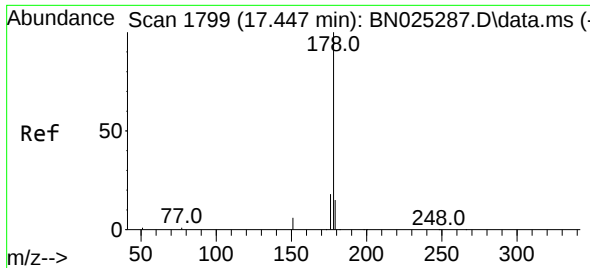
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#25
Phenanthrene
Concen: 0.835 ng
RT: 17.336 min Scan# 1790
Delta R.T. -0.000 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

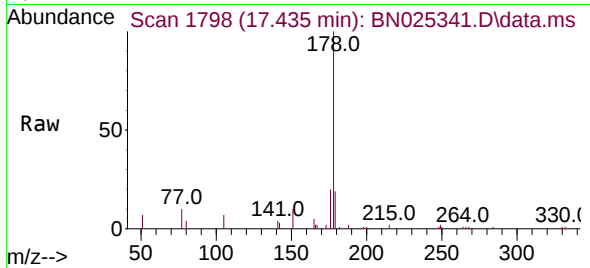
Tgt Ion:178 Resp: 58353
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 15.8 12.4 18.6





#26
 Anthracene
 Concen: 0.203 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN025341.D
 Acq: 08 May 2023 20:10

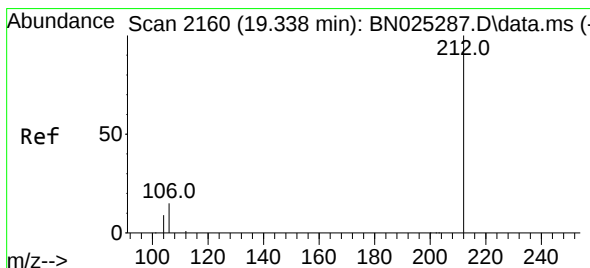
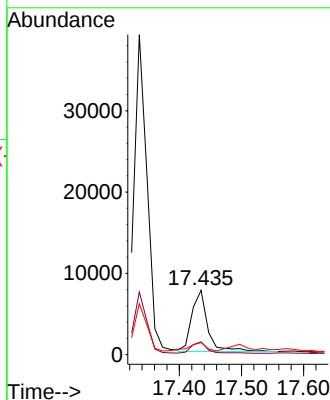
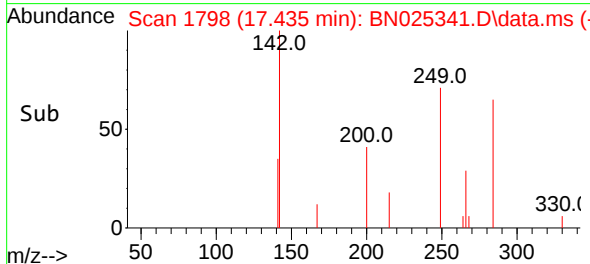
Instrument :
 BNA_N
 ClientSampleId :
 PILE-A-UNK-05022023



Tgt Ion:178 Resp: 1327
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.9 22.3
 179 13.7 12.0 18.0

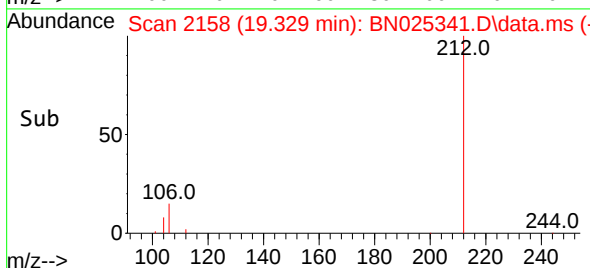
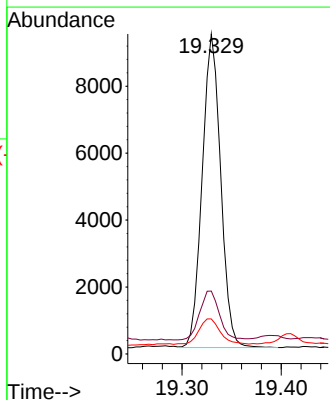
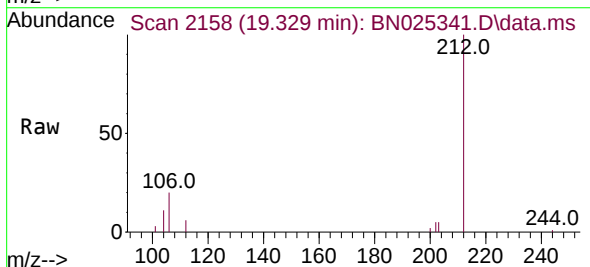
Manual Integrations
 APPROVED

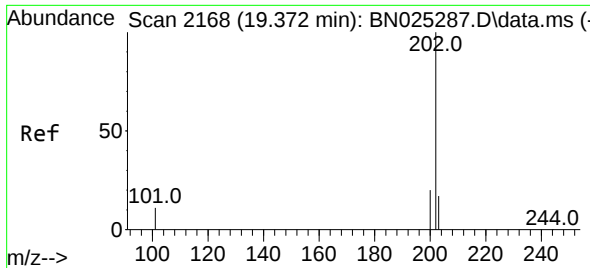
Reviewed By :Christian Giraldo 05/09/2023
 Supervised By :Jagrut Upadhyay 05/09/2023



#27
 Fluoranthene-d10
 Concen: 0.195 ng
 RT: 19.329 min Scan# 2158
 Delta R.T. -0.004 min
 Lab File: BN025341.D
 Acq: 08 May 2023 20:10

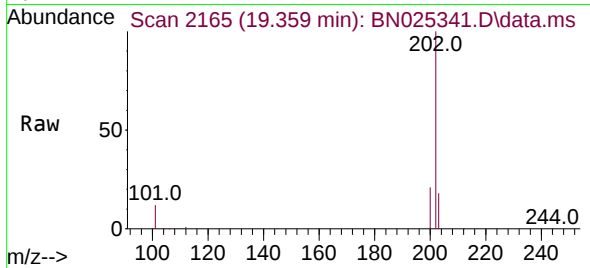
Tgt Ion:212 Resp: 12179
 Ion Ratio Lower Upper
 212 100
 106 16.5 12.6 19.0
 104 9.6 7.0 10.6





#28
Fluoranthene
Concen: 1.498 ng
RT: 19.359 min Scan# 2165
Delta R.T. -0.004 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

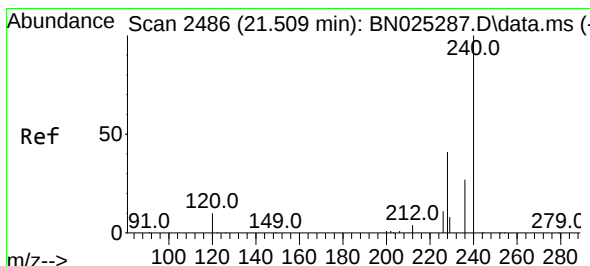
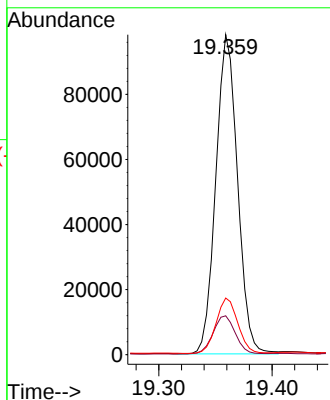
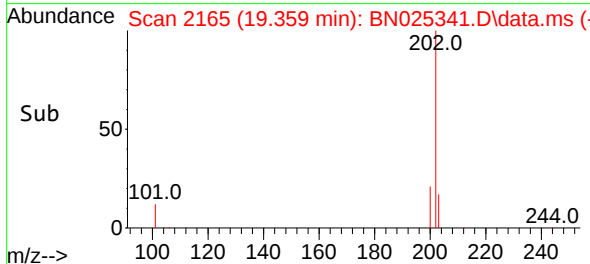
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023



Tgt Ion:202 Resp: 13086
Ion Ratio Lower Upper
202 100
101 12.2 9.8 14.8
203 17.3 13.5 20.3

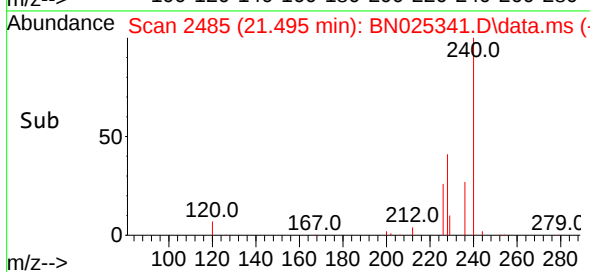
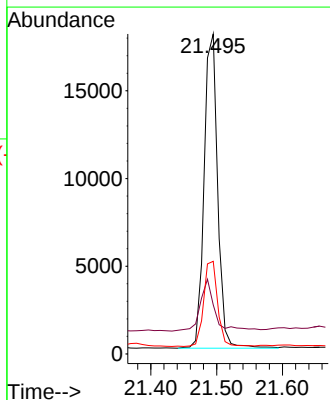
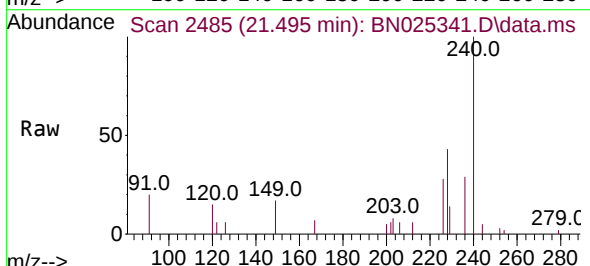
Manual Integrations
APPROVED

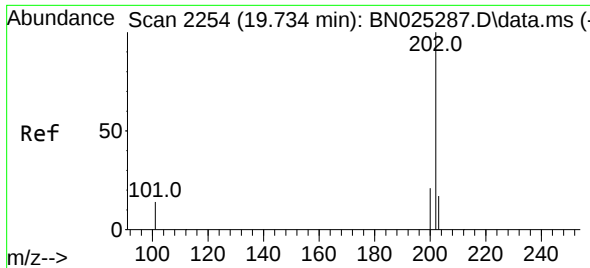
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.495 min Scan# 2485
Delta R.T. -0.005 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Tgt Ion:240 Resp: 25813
Ion Ratio Lower Upper
240 100
120 15.3 10.3 15.5
236 29.0 22.3 33.5





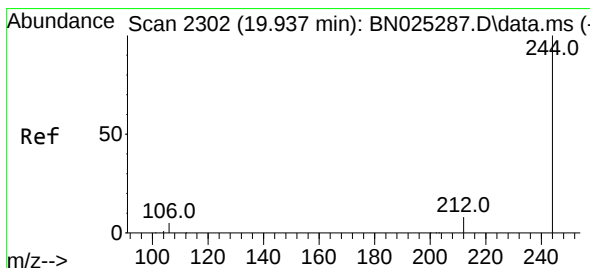
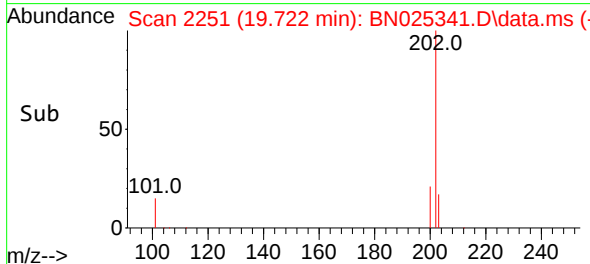
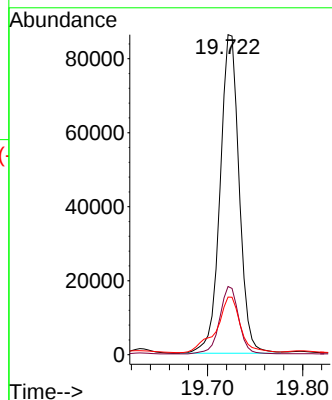
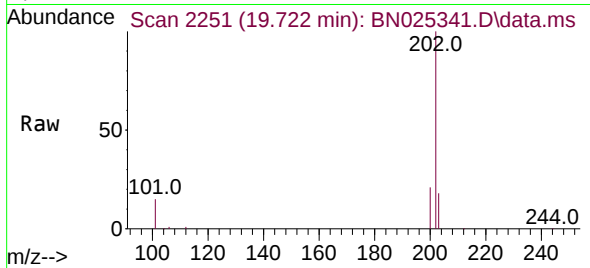
#30
Pyrene
Concen: 1.364 ng
RT: 19.722 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023

Tgt Ion:202 Resp: 12032
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 21.9 14.4 21.6

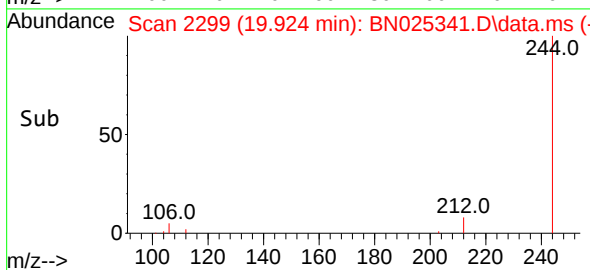
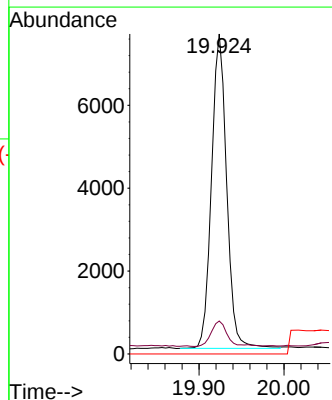
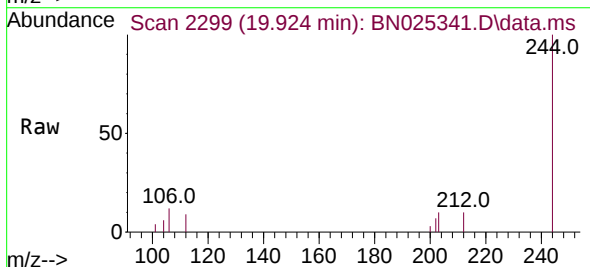
Manual Integrations
APPROVED

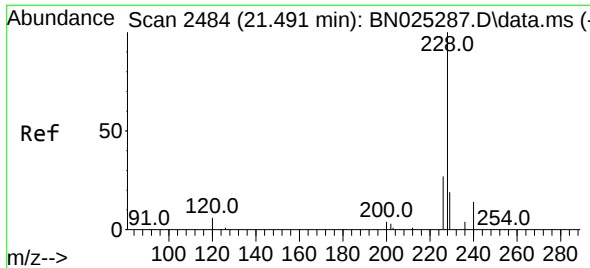
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#31
Terphenyl-d14
Concen: 0.181 ng
RT: 19.924 min Scan# 2299
Delta R.T. -0.004 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

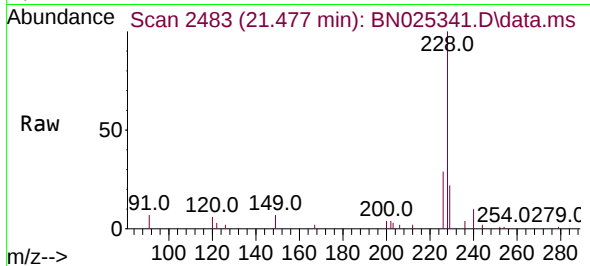
Tgt Ion:244 Resp: 9401
Ion Ratio Lower Upper
244 100
212 10.3 7.1 10.7
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 0.786 ng
RT: 21.477 min Scan# 2483
Delta R.T. -0.005 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

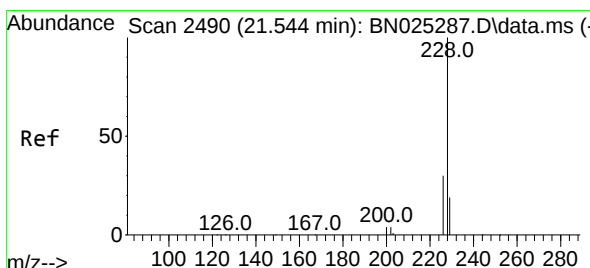
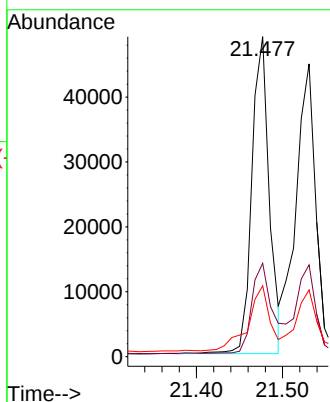
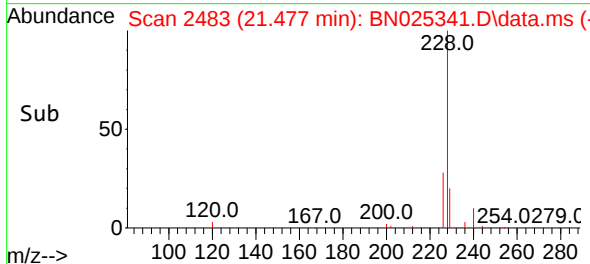
Instrument : BNA_N
ClientSampleId : PILE-A-UNK-05022023



Tgt Ion:228 Resp: 6854
Ion Ratio Lower Upper
228 100
226 29.2 22.5 33.7
229 22.2 16.2 24.2

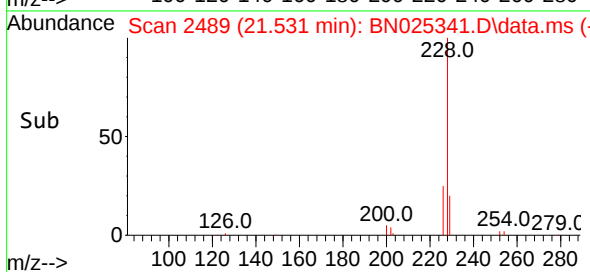
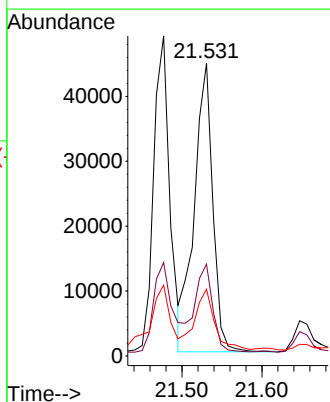
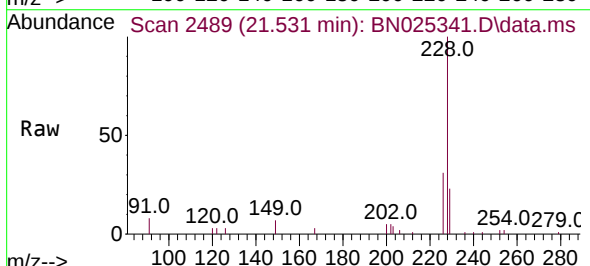
Manual Integrations
APPROVED

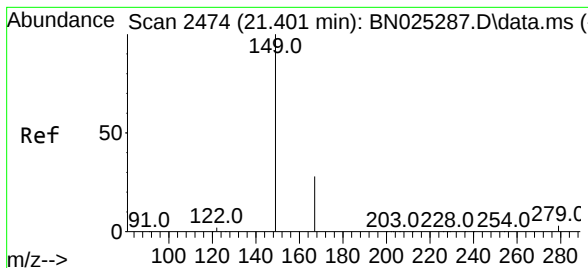
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#33
Chrysene
Concen: 0.825 ng
RT: 21.531 min Scan# 2489
Delta R.T. -0.005 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Tgt Ion:228 Resp: 71682
Ion Ratio Lower Upper
228 100
226 31.4 24.6 36.8
229 22.8 16.2 24.4





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.146 ng

RT: 21.387 min Scan# 2473

Delta R.T. -0.005 min

Lab File: BN025341.D

Acq: 08 May 2023 20:10

Instrument :

BNA_N

ClientSampleId :

PILE-A-UNK-05022023

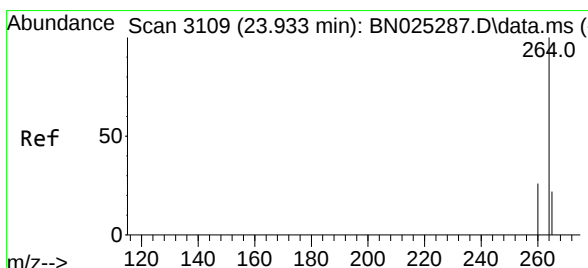
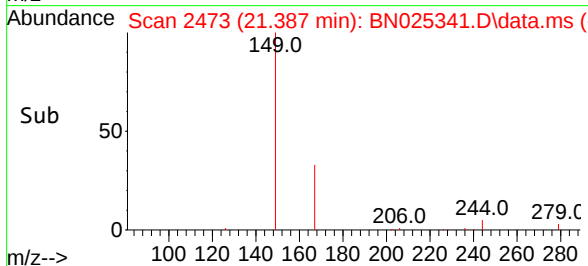
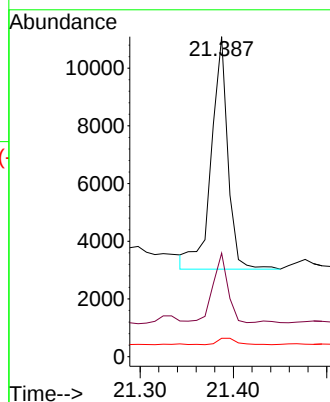
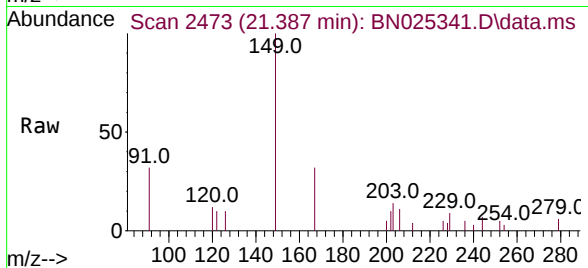
Tgt Ion:149 Resp: 9970

Ion	Ratio	Lower	Upper
149	100		
167	26.9	22.2	33.4
279	3.2	2.6	4.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.914 min Scan# 3102

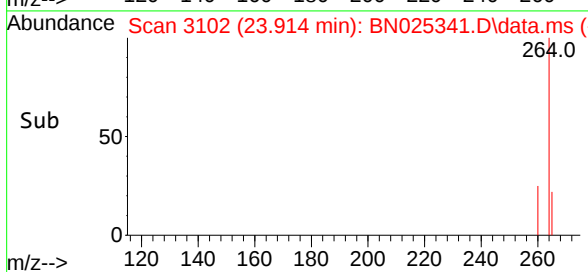
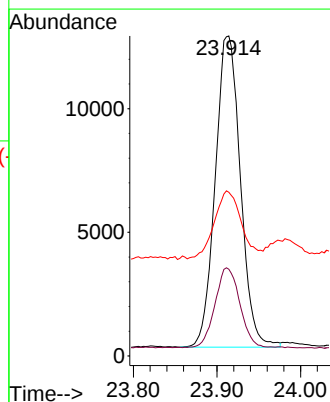
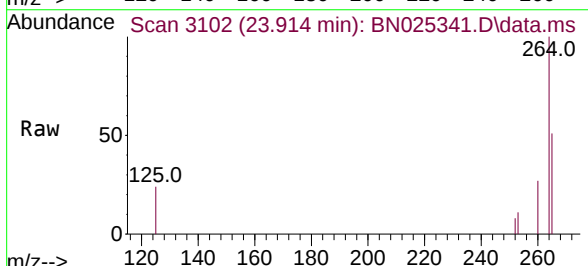
Delta R.T. -0.016 min

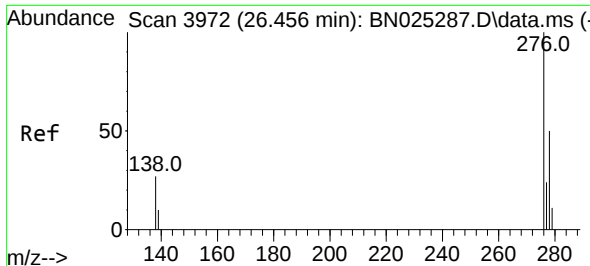
Lab File: BN025341.D

Acq: 08 May 2023 20:10

Tgt Ion:264 Resp: 26303

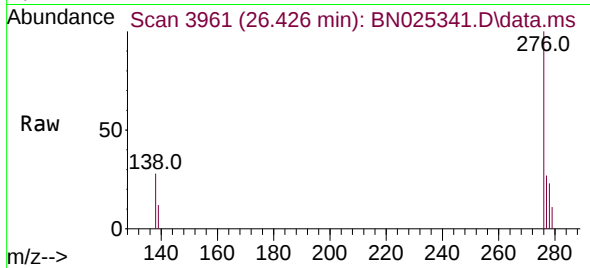
Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.5	32.3
265	51.1	46.2	69.4





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.331 ng
RT: 26.426 min Scan# 3972
Delta R.T. -0.022 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

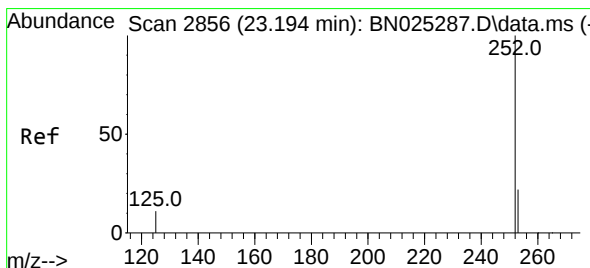
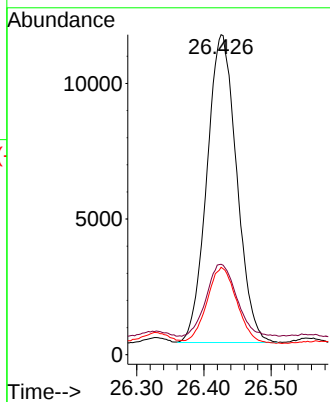
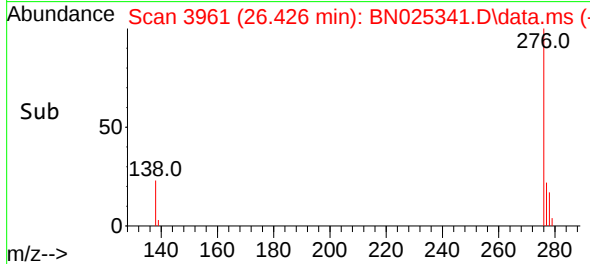
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023



Tgt Ion:276 Resp: 3489
Ion Ratio Lower Upper
276 100
138 23.7 22.5 33.7
277 24.9 19.8 29.6

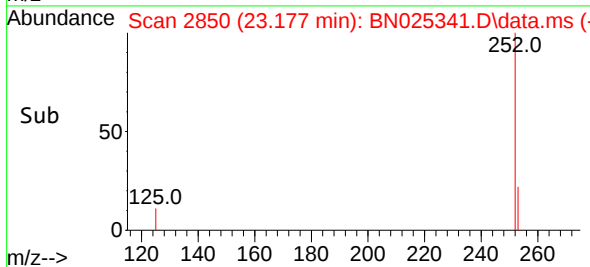
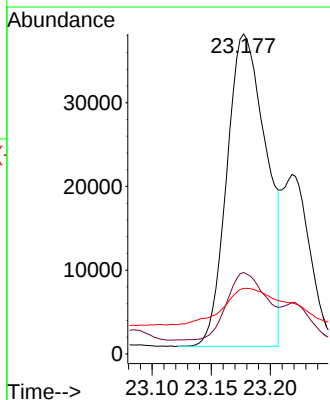
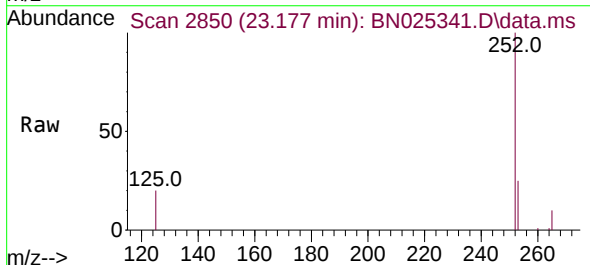
Manual Integrations
APPROVED

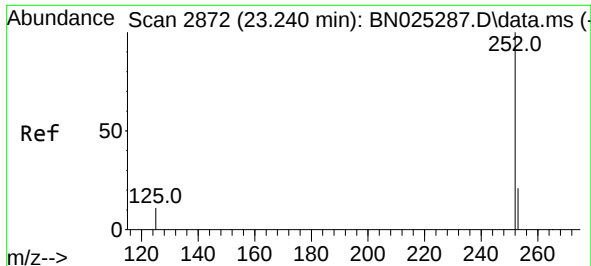
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#37
Benzo(b)fluoranthene
Concen: 1.040 ng
RT: 23.177 min Scan# 2850
Delta R.T. -0.011 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

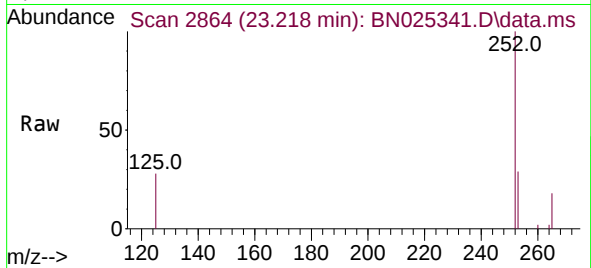
Tgt Ion:252 Resp: 86703
Ion Ratio Lower Upper
252 100
253 25.5 20.8 31.2
125 20.5 13.4 20.2#





#38
Benzo(k)fluoranthene
Concen: 0.388 ng m
RT: 23.218 min Scan# 21
Delta R.T. -0.019 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

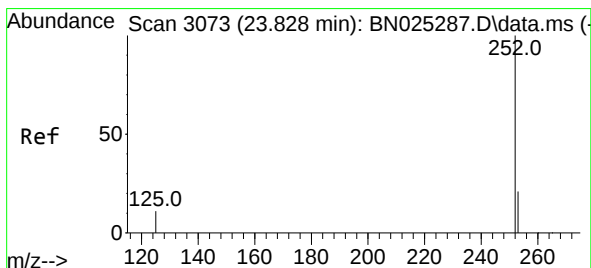
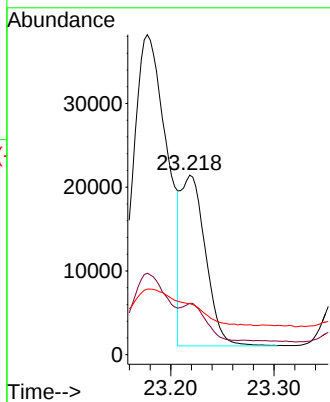
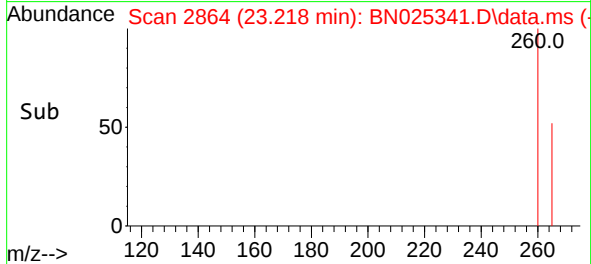
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023



Tgt Ion:252 Resp: 3385
Ion Ratio Lower Upper
252 100
253 28.6 20.6 30.8
125 28.4 13.1 19.7

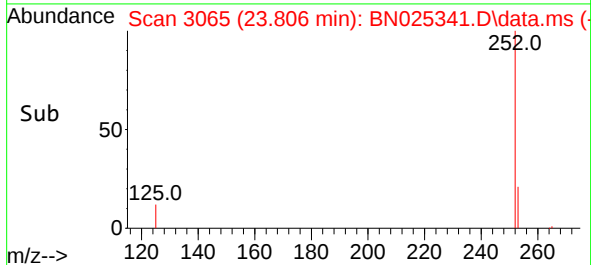
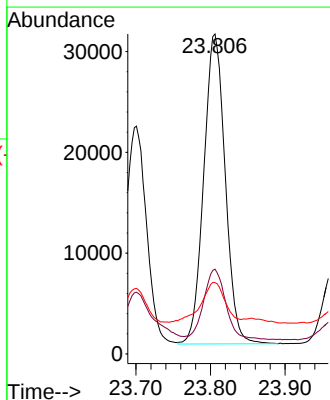
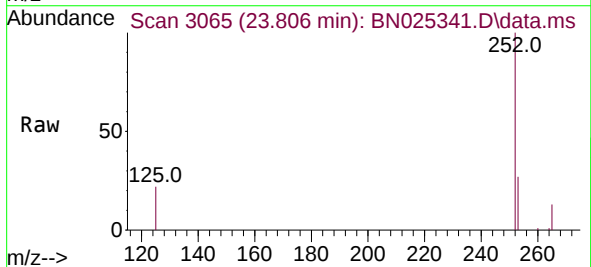
Manual Integrations
APPROVED

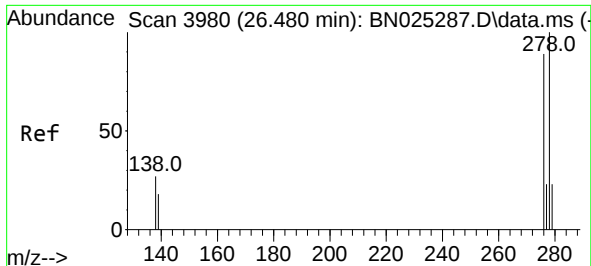
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#39
Benzo(a)pyrene
Concen: 0.720 ng
RT: 23.806 min Scan# 3065
Delta R.T. -0.016 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

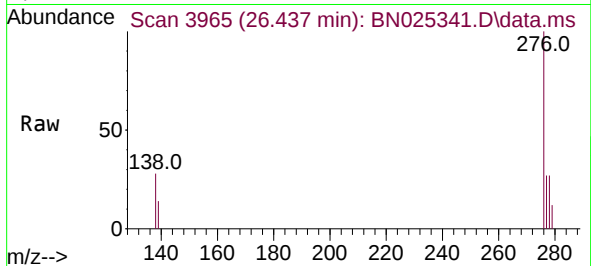
Tgt Ion:252 Resp: 61475
Ion Ratio Lower Upper
252 100
253 26.5 21.4 32.0
125 22.3 15.4 23.2





#40
Dibenzo(a,h)anthracene
Concen: 0.109 ng
RT: 26.437 min Scan# 3980
Delta R.T. -0.028 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

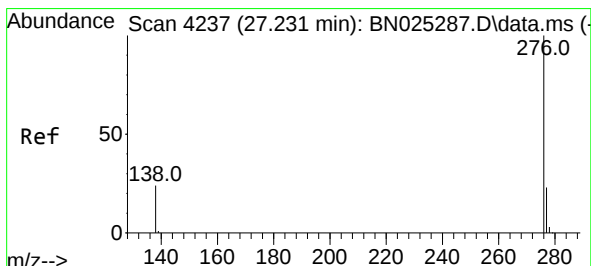
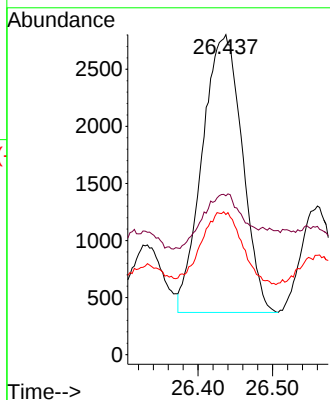
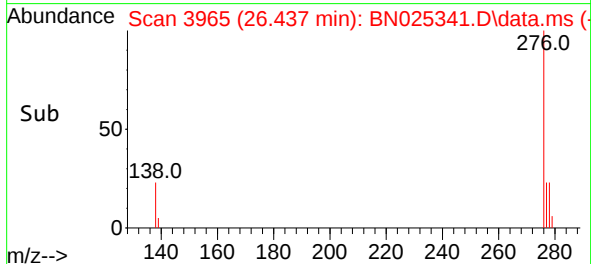
Instrument :
BNA_N
ClientSampleId :
PILE-A-UNK-05022023



Tgt Ion: 278 Resp: 907
Ion Ratio Lower Upper
278 100
139 49.7 17.6 26.4
279 43.8 21.6 32.4

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 05/09/2023
Supervised By : Jagrut Upadhyay 05/09/2023



#41
Benzo(g,h,i)perylene
Concen: 0.370 ng
RT: 27.206 min Scan# 4228
Delta R.T. -0.022 min
Lab File: BN025341.D
Acq: 08 May 2023 20:10

Tgt Ion: 276 Resp: 33824
Ion Ratio Lower Upper
276 100
277 26.6 20.1 30.1
138 28.8 21.0 31.6

