

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
 Data File : BN025345.D
 Acq On : 08 May 2023 22:34
 Operator : CG/JU
 Sample : 02588-01DL 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 50

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-0-3-05012023DL

Quant Time: May 09 04:04:58 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.897	152	423288	20.000	ng	0.00
7) Naphthalene-d8	10.707	136	1308053	20.000	ng	-0.01
13) Acenaphthene-d10	14.544	164	745444	20.000	ng	0.00
19) Phenanthrene-d10	17.298	188	1668956	20.000	ng	0.00
29) Chrysene-d12	21.495	240	1404361	20.000	ng	# 0.00
35) Perylene-d12	23.911	264	1314142	20.000	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.455	112	408115	19.806	ng	0.00
5) Phenol-d6	7.066	99	563845	21.807	ng	0.00
8) Nitrobenzene-d5	9.063	82	301220	13.998	ng	-0.02
11) 2-Methylnaphthalene-d10	12.287	152	5	0.000	ng	-0.02
14) 2,4,6-Tribromophenol	16.045	330	184321	24.184	ng	-0.01
15) 2-Fluorobiphenyl	13.165	172	640579	12.529	ng	-0.01
27) Fluoranthene-d10	19.279	212	762	0.009	ng	-0.05
31) Terphenyl-d14	19.924	244	771965	13.631	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.760	128	4258	0.063	ng	# 95
12) 2-Methylnaphthalene	12.385	142	1999	0.042	ng	# 92
16) Acenaphthylene	14.266	152	6831	0.102	ng	98
17) Acenaphthene	14.608	154	7603	0.183	ng	# 78
18) Fluorene	15.603	166	12936	0.227	ng	99
25) Phenanthrene	17.336	178	187389	2.029	ng	99
26) Anthracene	17.435	178	52541	0.607	ng	99
28) Fluoranthene	19.359	202	362987	3.146	ng	99
30) Pyrene	19.722	202	307885	3.206	ng	# 95
32) Benzo(a)anthracene	21.477	228	161674	1.703	ng	98
33) Chrysene	21.531	228	148134	1.568	ng	98
34) Bis(2-ethylhexyl)phtha...	21.387	149	6885	0.092	ng	# 98
36) Indeno(1,2,3-cd)pyrene	26.423	276	63550	0.603	ng	96
37) Benzo(b)fluoranthene	23.177	252	167966	2.016	ng	98
38) Benzo(k)fluoranthene	23.218	252	56494m	0.648	ng	
39) Benzo(a)pyrene	23.803	252	113809	1.333	ng	94
40) Dibenzo(a,h)anthracene	26.434	278	16256	0.195	ng	# 72
41) Benzo(g,h,i)perylene	27.203	276	61202	0.670	ng	99

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

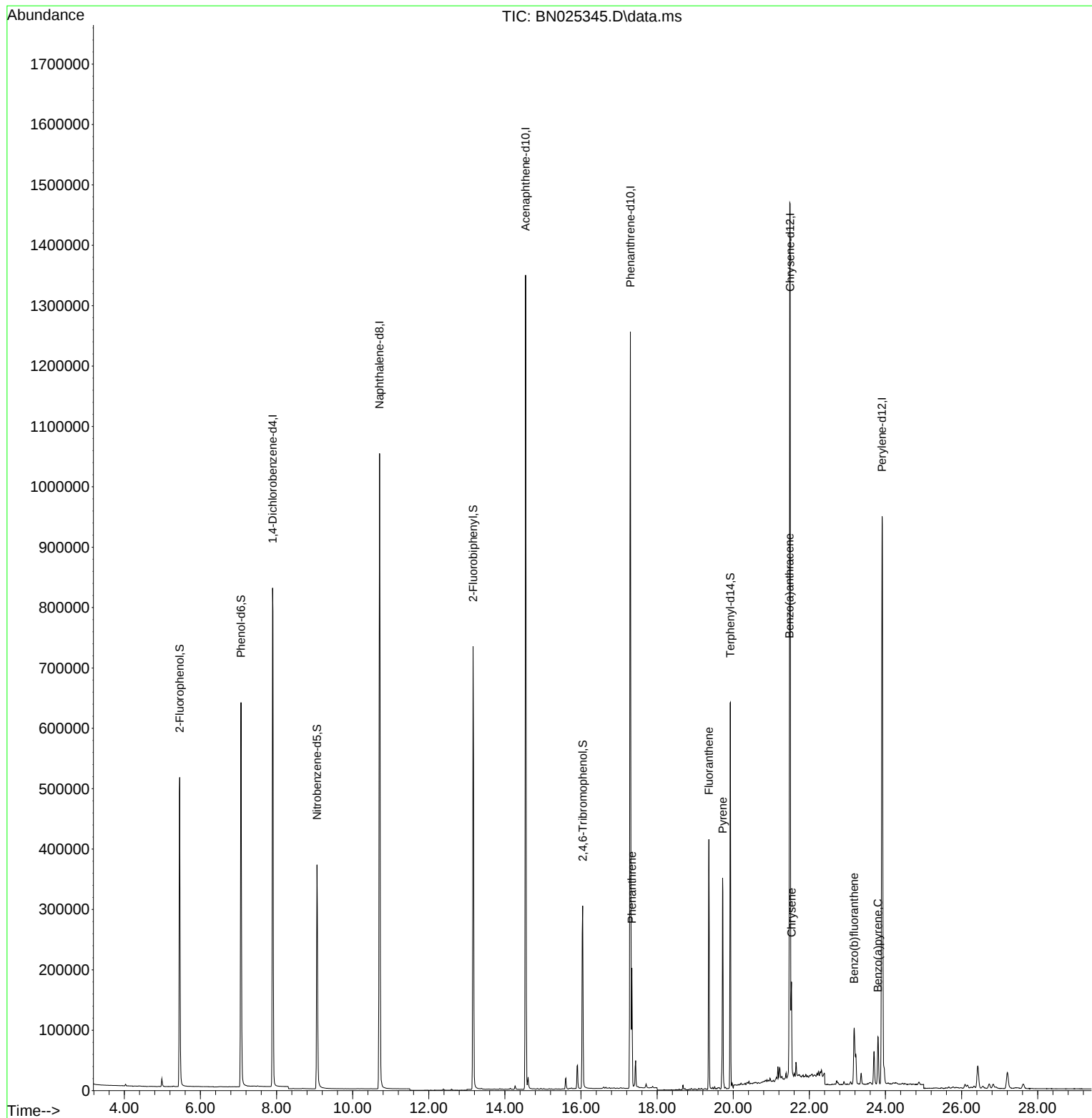
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
Data File : BN025345.D
Acq On : 08 May 2023 22:34
Operator : CG/JU
Sample : 02588-01DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 50

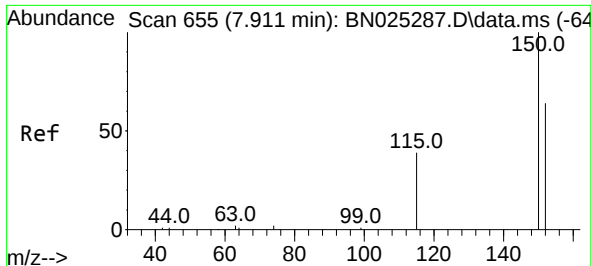
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL

Quant Time: May 09 04:04:58 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

Manual Integrations
APPROVED

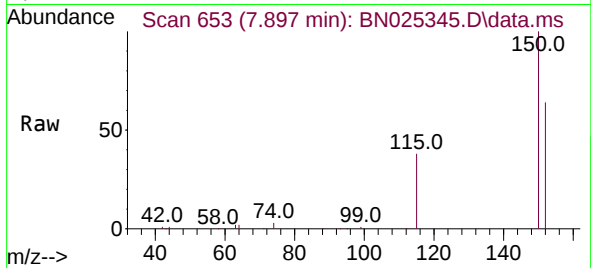
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.897 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

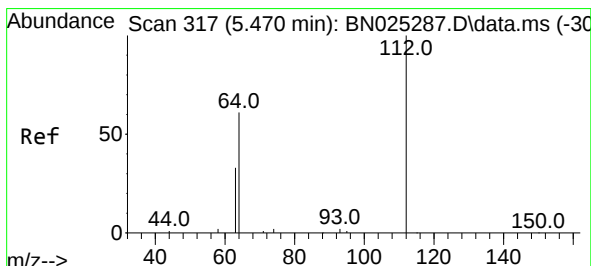
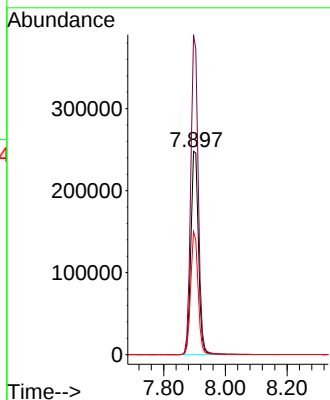
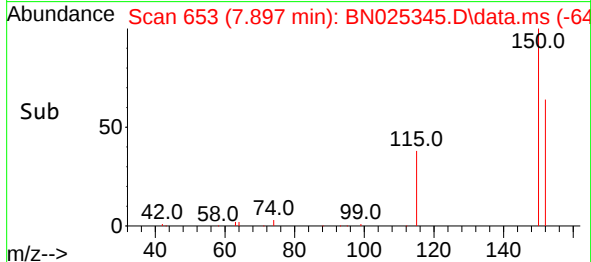
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



Tgt Ion:152 Resp: 42328
Ion Ratio Lower Upper
152 100
150 157.4 123.8 185.8
115 60.4 52.9 79.3

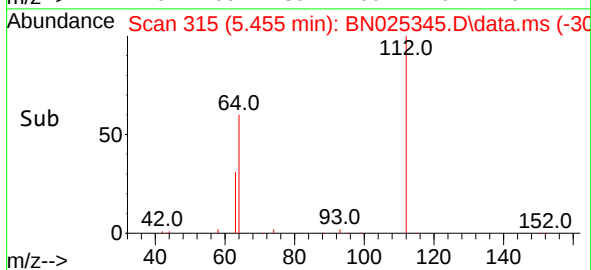
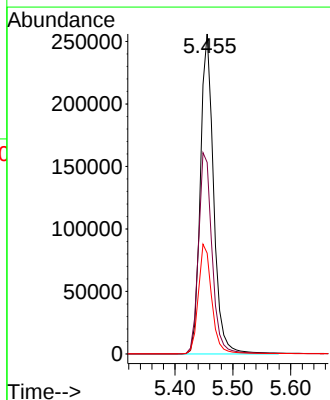
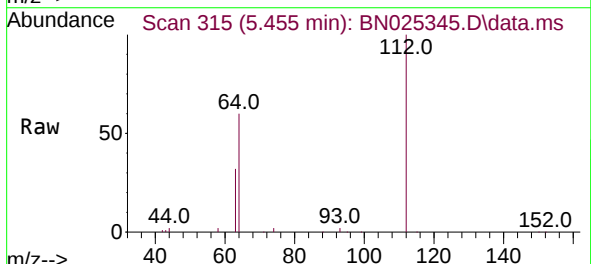
Manual Integrations
APPROVED

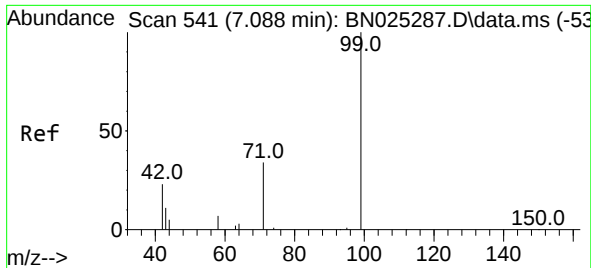
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#4
2-Fluorophenol
Concen: 19.806 ng
RT: 5.455 min Scan# 315
Delta R.T. -0.007 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

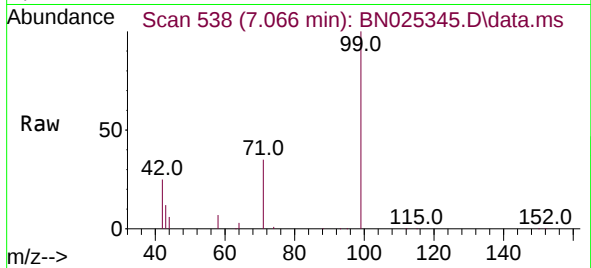
Tgt Ion:112 Resp: 408115
Ion Ratio Lower Upper
112 100
64 64.6 51.5 77.3
63 34.6 27.8 41.6





#5
Phenol-d6
Concen: 21.807 ng
RT: 7.066 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

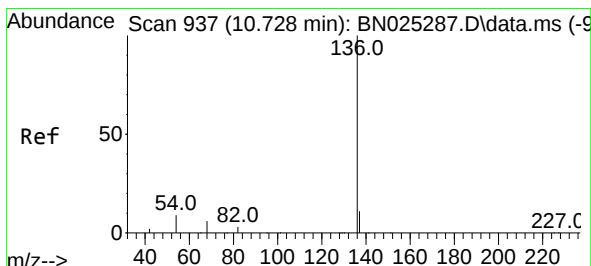
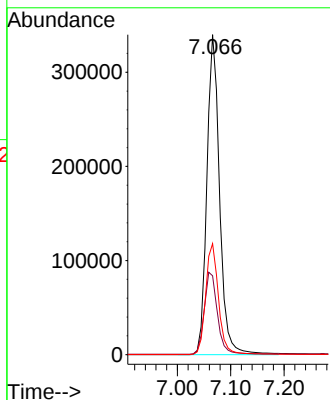
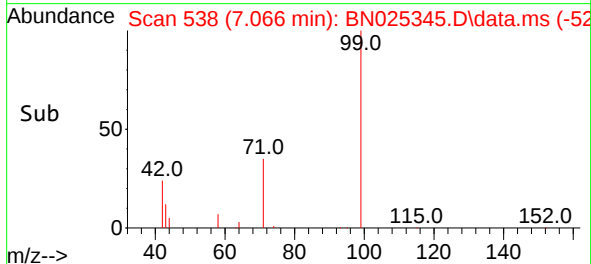
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



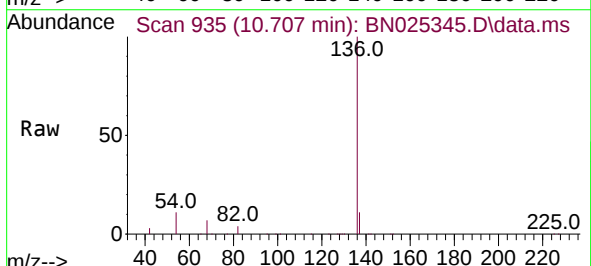
Tgt Ion: 99 Resp: 56384
Ion Ratio Lower Upper
99 100
42 26.6 22.0 33.0
71 35.2 28.7 43.1

Manual Integrations
APPROVED

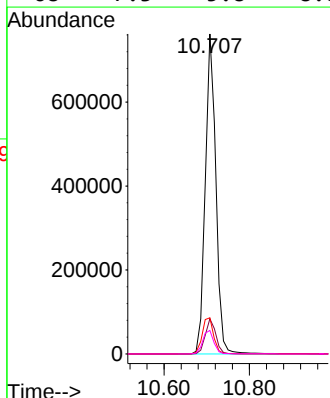
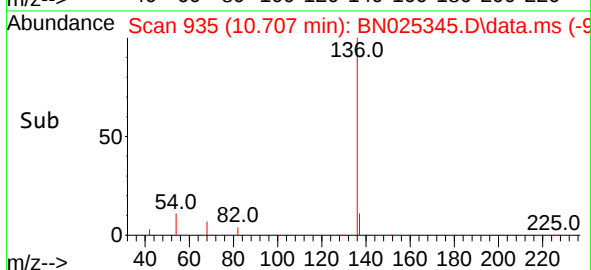
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

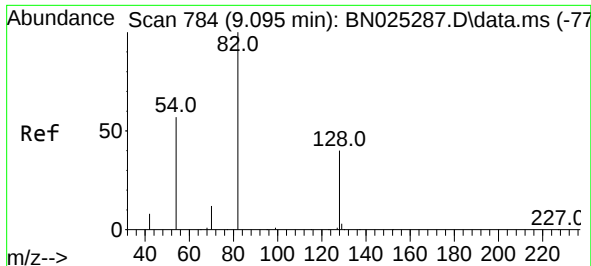


#7
Naphthalene-d8
Concen: 20.000 ng
RT: 10.707 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34



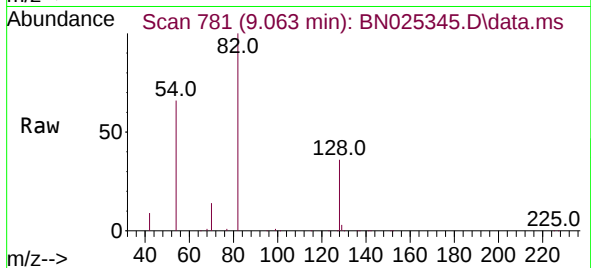
Tgt Ion:136 Resp: 1308053
Ion Ratio Lower Upper
136 100
137 11.0 9.4 14.2
54 11.3 8.5 12.7
68 7.3 5.8 8.8





#8
Nitrobenzene-d5
Concen: 13.998 ng
RT: 9.063 min Scan# 784
Delta R.T. -0.021 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

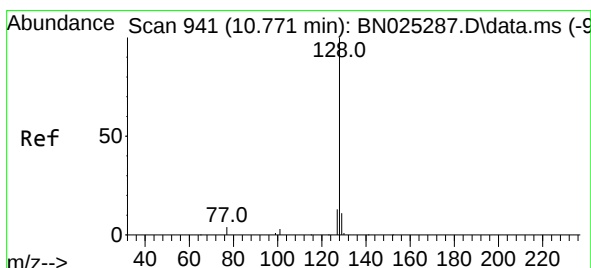
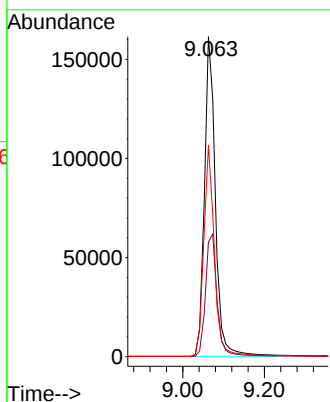
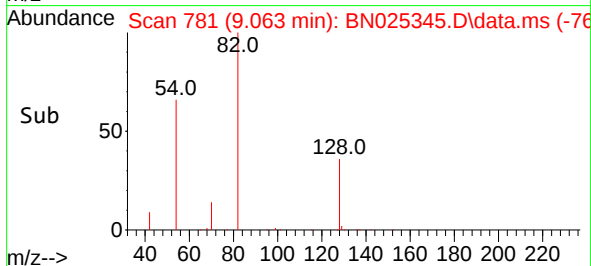
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



Tgt Ion: 82 Resp: 301220
Ion Ratio Lower Upper
82 100
128 35.9 35.3 52.9
54 66.1 48.7 73.1

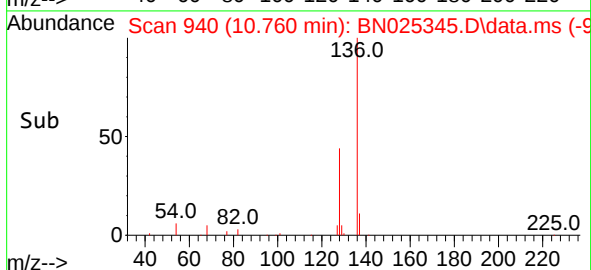
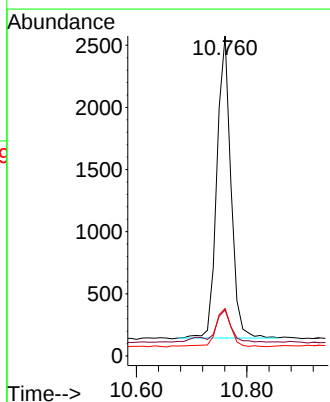
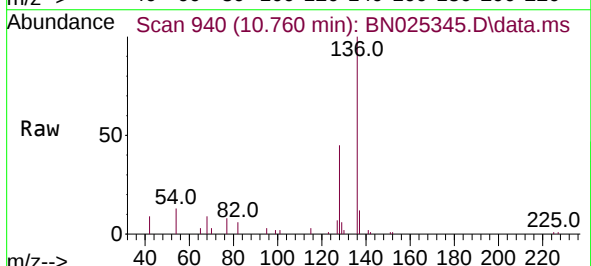
Manual Integrations
APPROVED

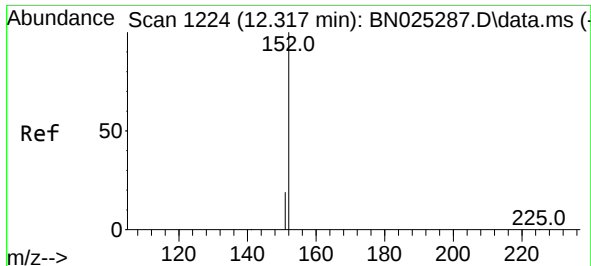
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#9
Naphthalene
Concen: 0.063 ng
RT: 10.760 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

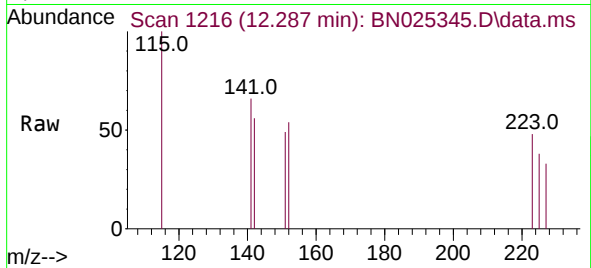
Tgt Ion:128 Resp: 4258
Ion Ratio Lower Upper
128 100
129 14.4 9.4 14.2#
127 14.9 11.0 16.6





#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
RT: 12.287 min Scan# 11
Delta R.T. -0.019 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

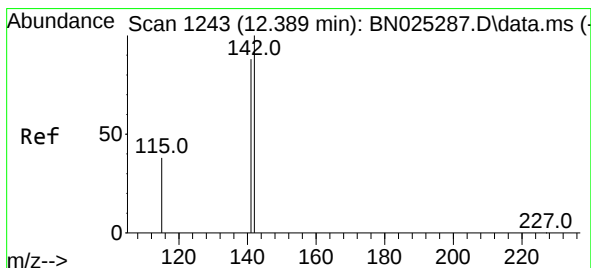
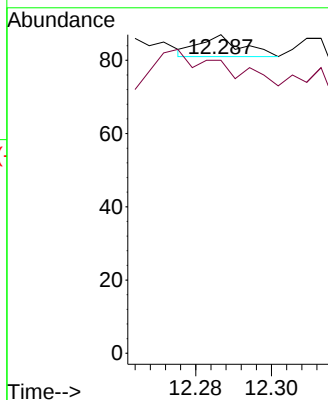
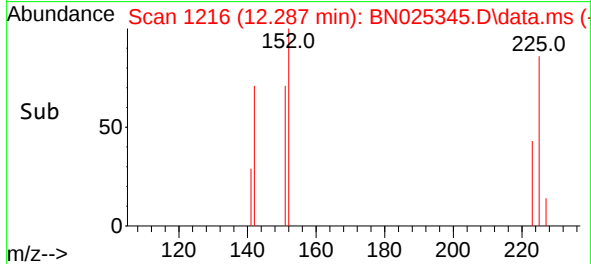
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



Tgt Ion:152 Resp:
Ion Ratio Lower Upper
152 100
151 320.0 16.4 24.6

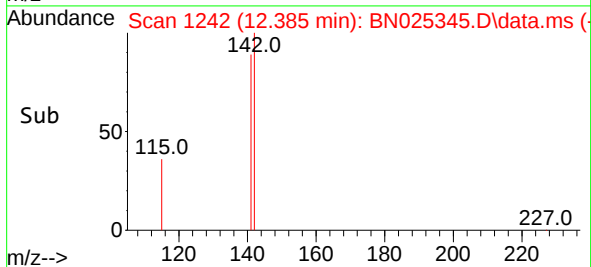
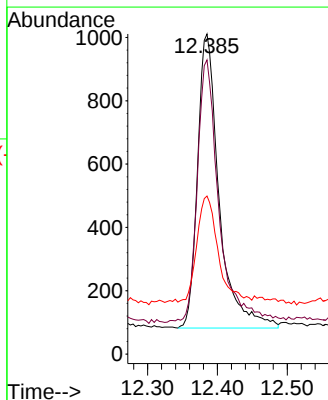
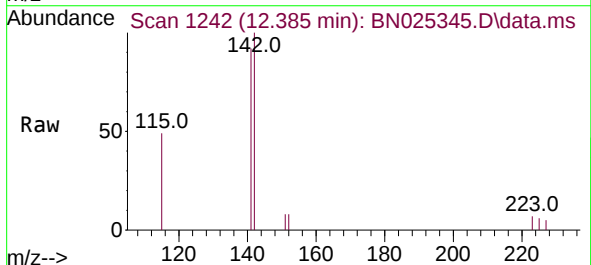
Manual Integrations
APPROVED

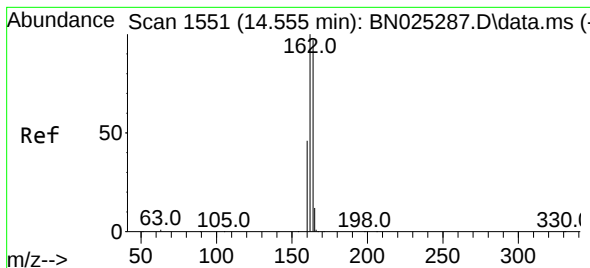
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#12
2-Methylnaphthalene
Concen: 0.042 ng
RT: 12.385 min Scan# 1242
Delta R.T. 0.004 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

Tgt Ion:142 Resp: 1999
Ion Ratio Lower Upper
142 100
141 91.9 70.5 105.7
115 49.4 31.6 47.4





#13

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.544 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN025345.D

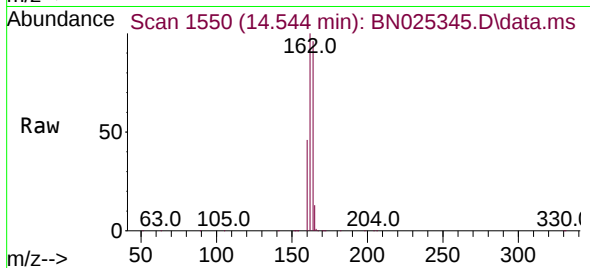
Acq: 08 May 2023 22:34

Instrument :

BNA_N

ClientSampleId :

ZONE-B-0-3-05012023DL



Tgt Ion:164 Resp: 745444

Ion Ratio Lower Upper

164 100

162 104.6 82.1 123.1

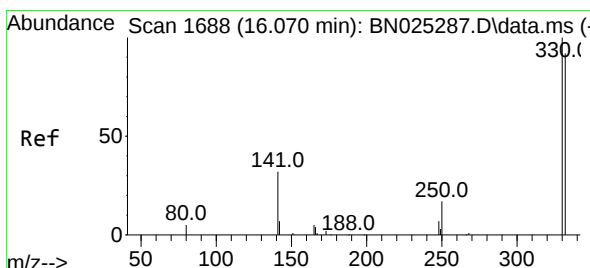
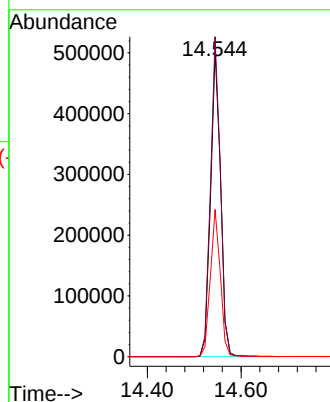
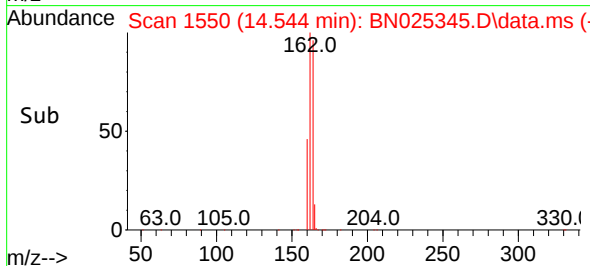
160 48.1 38.3 57.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#14

2,4,6-Tribromophenol

Concen: 24.184 ng

RT: 16.045 min Scan# 1686

Delta R.T. -0.013 min

Lab File: BN025345.D

Acq: 08 May 2023 22:34

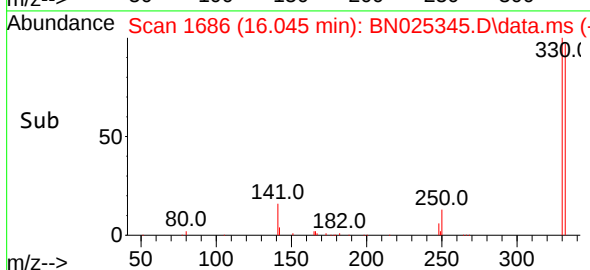
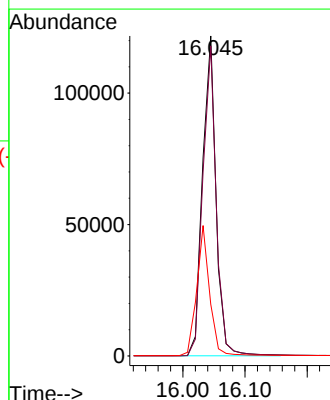
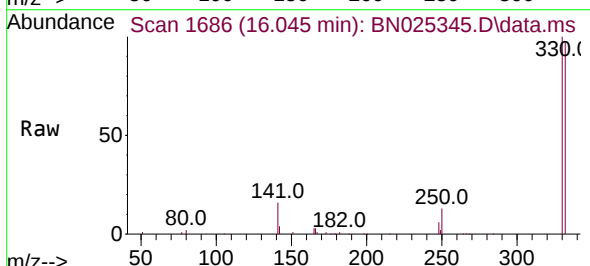
Tgt Ion:330 Resp: 184321

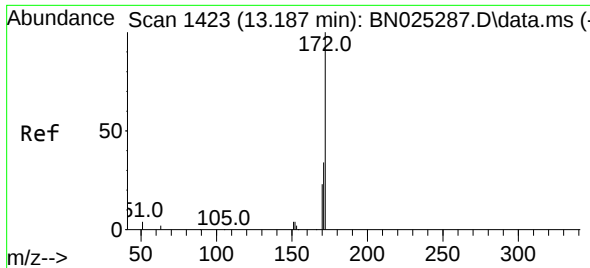
Ion Ratio Lower Upper

330 100

332 96.6 77.4 116.0

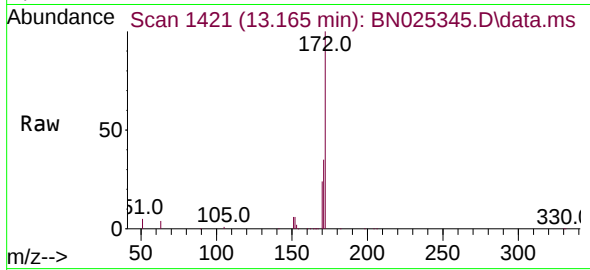
141 38.6 28.9 43.3





#15
2-Fluorobiphenyl
Concen: 12.529 ng
RT: 13.165 min Scan# 1423
Delta R.T. -0.011 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

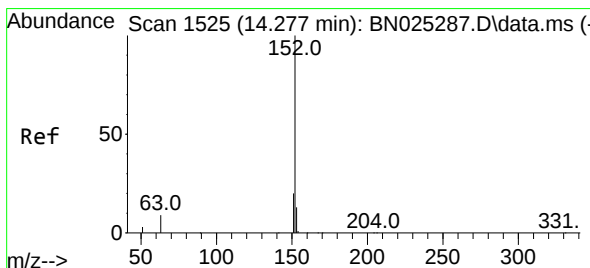
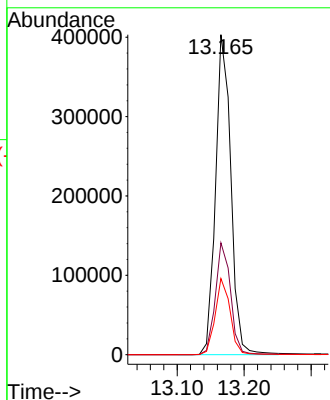
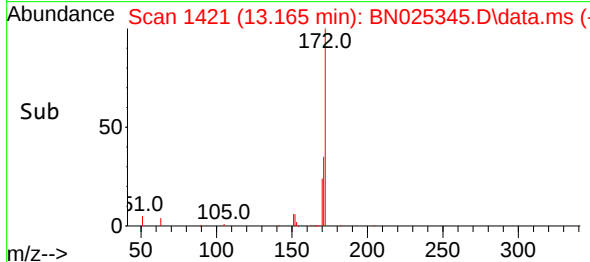
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



Tgt Ion:172 Resp: 640579
Ion Ratio Lower Upper
172 100
171 34.9 27.9 41.9
170 23.8 19.0 28.4

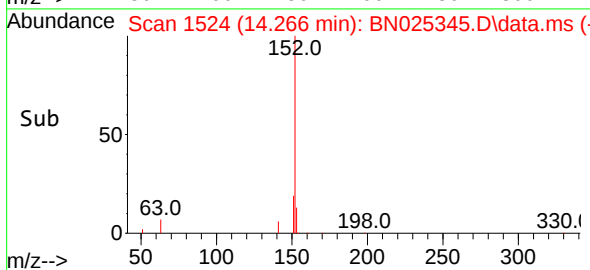
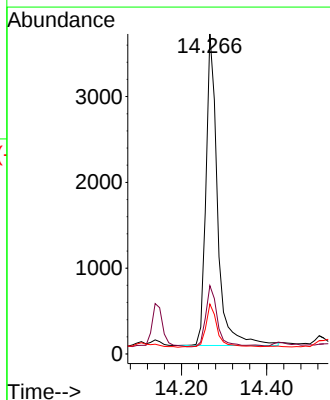
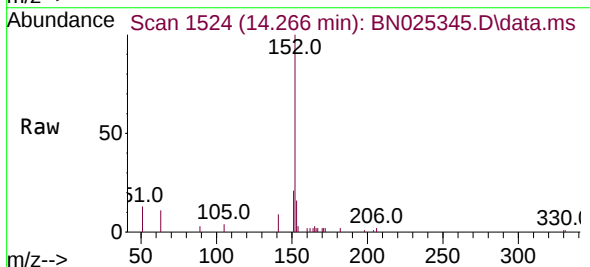
Manual Integrations
APPROVED

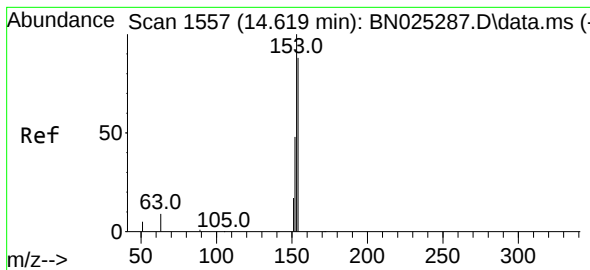
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#16
Acenaphthylene
Concen: 0.102 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.000 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

Tgt Ion:152 Resp: 6831
Ion Ratio Lower Upper
152 100
151 19.7 16.1 24.1
153 14.2 10.3 15.5





#17

Acenaphthene

Concen: 0.183 ng

RT: 14.608 min Scan# 1556

Delta R.T. -0.000 min

Lab File: BN025345.D

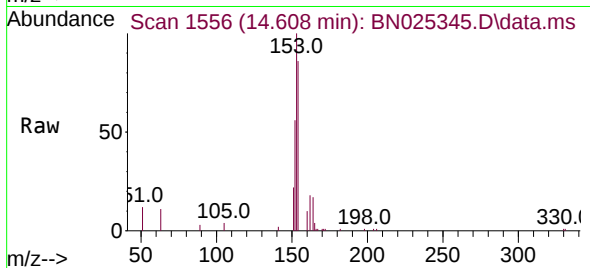
Acq: 08 May 2023 22:34

Instrument :

BNA_N

ClientSampleId :

ZONE-B-0-3-05012023DL



Tgt Ion:154 Resp: 760

Ion Ratio Lower Upper

154 100

153 118.6 91.3 136.9

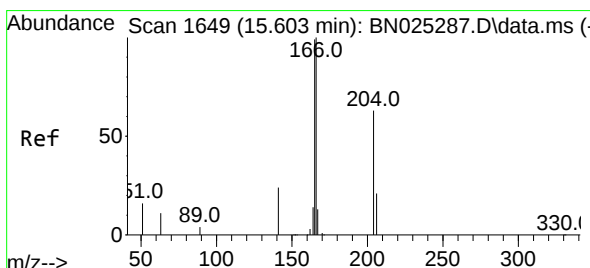
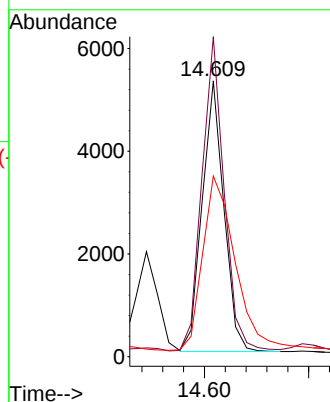
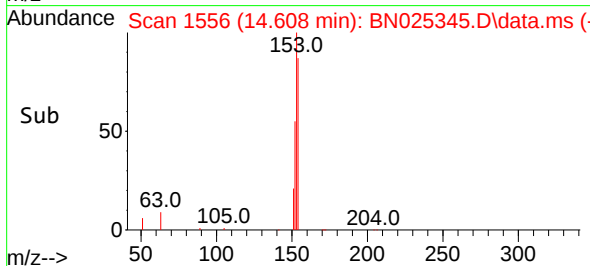
152 98.0 44.7 67.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#18

Fluorene

Concen: 0.227 ng

RT: 15.603 min Scan# 1649

Delta R.T. -0.000 min

Lab File: BN025345.D

Acq: 08 May 2023 22:34

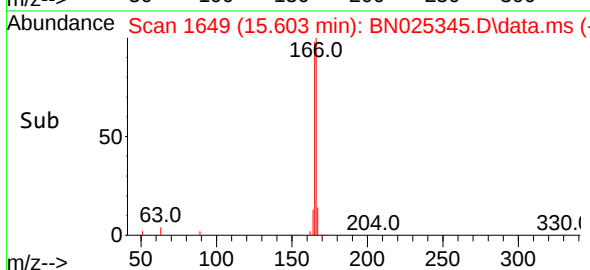
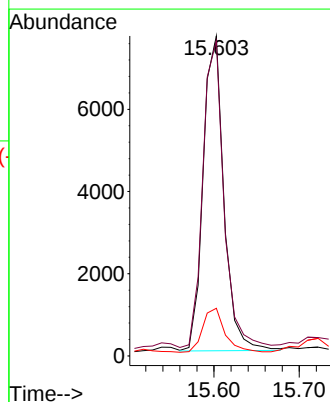
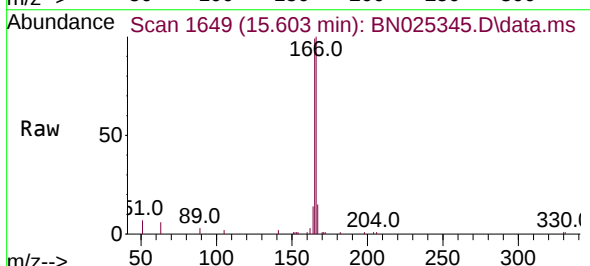
Tgt Ion:166 Resp: 12936

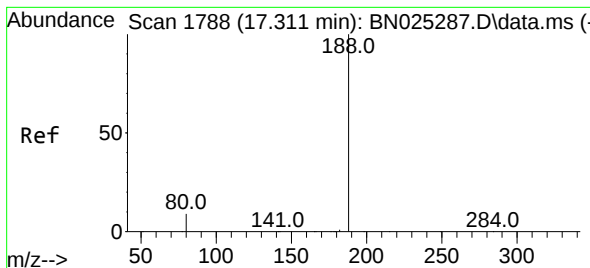
Ion Ratio Lower Upper

166 100

165 99.0 79.0 118.4

167 15.0 10.3 15.5





#19

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.298 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN025345.D

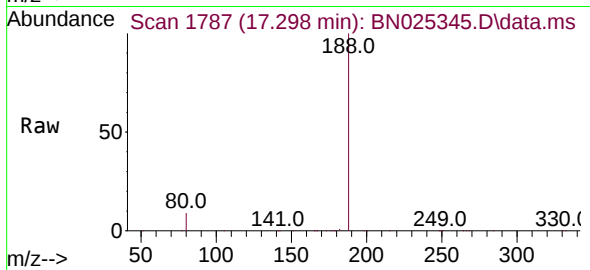
Acq: 08 May 2023 22:34

Instrument :

BNA_N

ClientSampleId :

ZONE-B-0-3-05012023DL



Tgt Ion:188 Resp: 166895

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

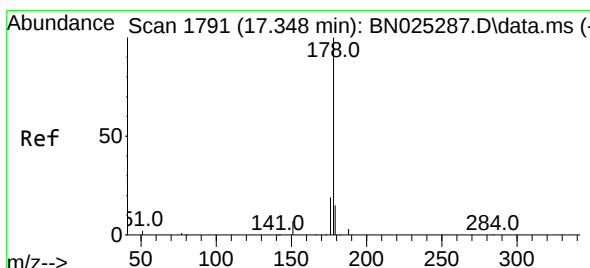
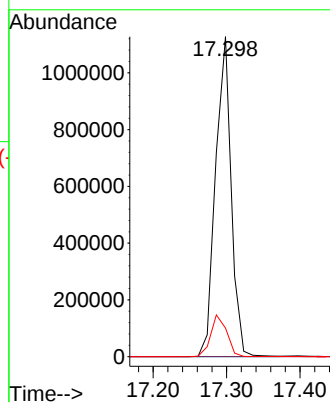
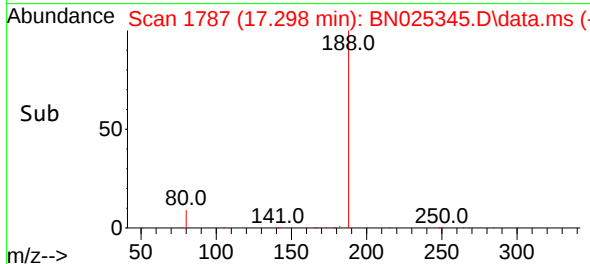
80 9.0 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#25

Phenanthrene

Concen: 2.029 ng

RT: 17.336 min Scan# 1790

Delta R.T. -0.000 min

Lab File: BN025345.D

Acq: 08 May 2023 22:34

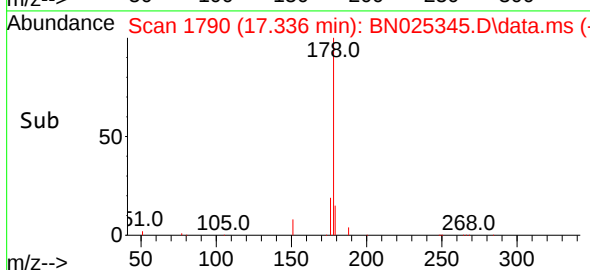
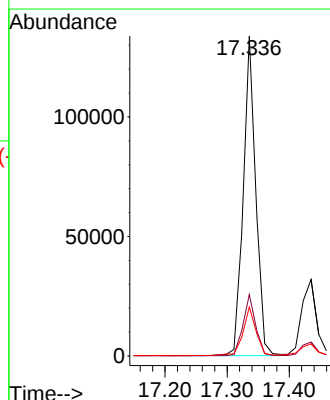
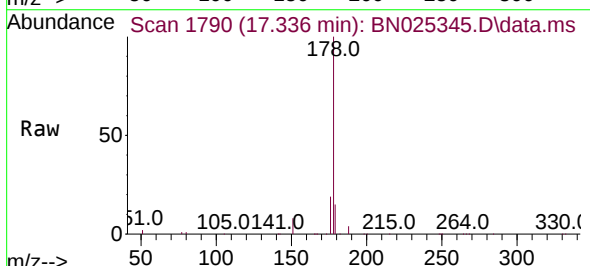
Tgt Ion:178 Resp: 187389

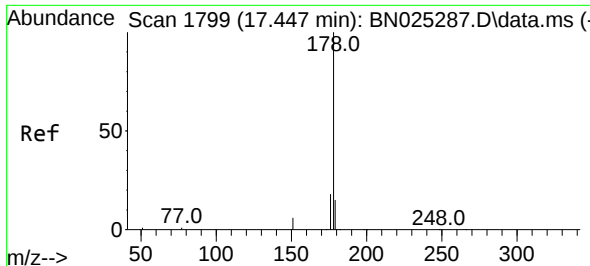
Ion Ratio Lower Upper

178 100

176 19.1 15.5 23.3

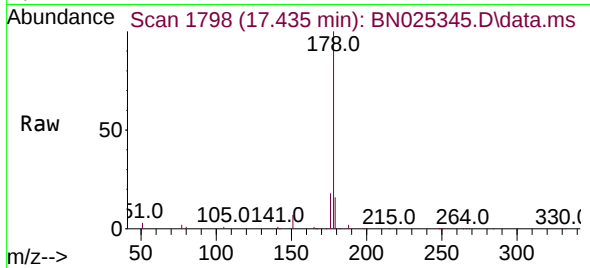
179 15.8 12.4 18.6





#26
 Anthracene
 Concen: 0.607 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN025345.D
 Acq: 08 May 2023 22:34

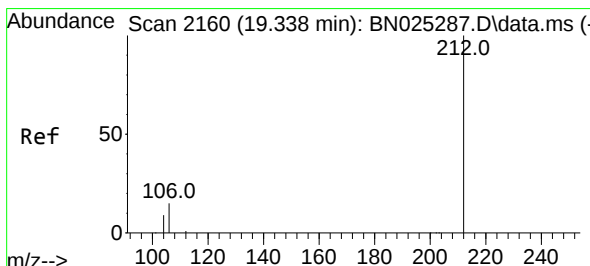
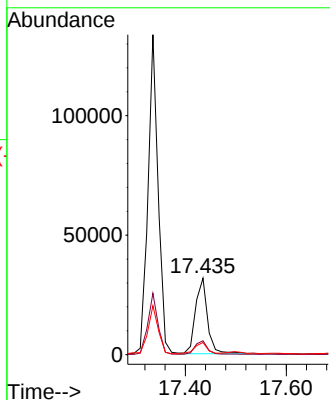
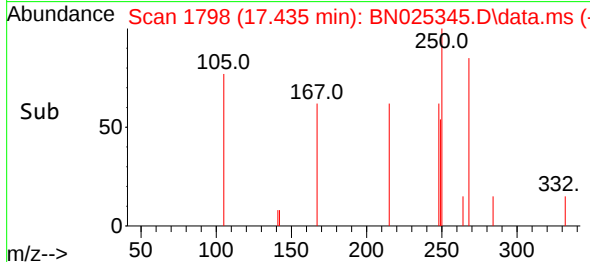
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-0-3-05012023DL



Tgt Ion:178 Resp: 5254
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.9 22.3
 179 15.7 12.0 18.0

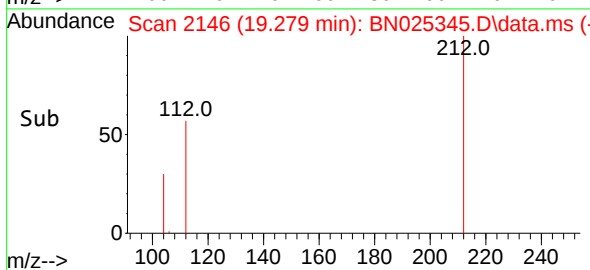
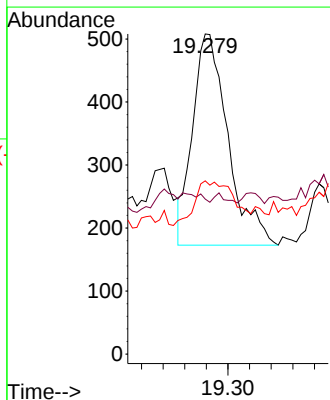
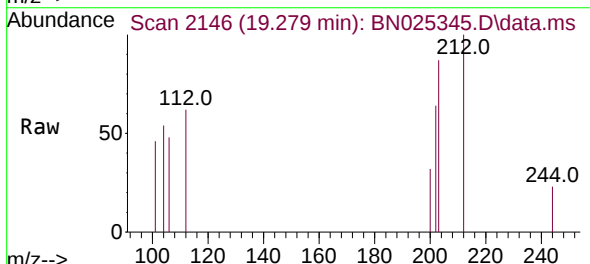
Manual Integrations
 APPROVED

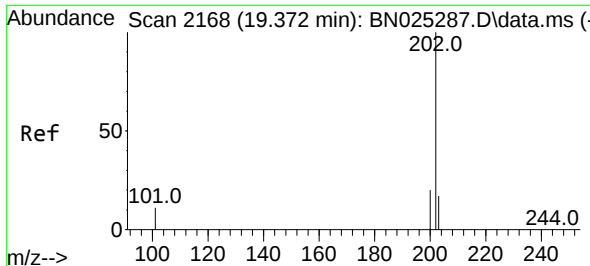
Reviewed By :Christian Giraldo 05/09/2023
 Supervised By :Jagrut Upadhyay 05/09/2023



#27
 Fluoranthene-d10
 Concen: 0.009 ng
 RT: 19.279 min Scan# 2146
 Delta R.T. -0.055 min
 Lab File: BN025345.D
 Acq: 08 May 2023 22:34

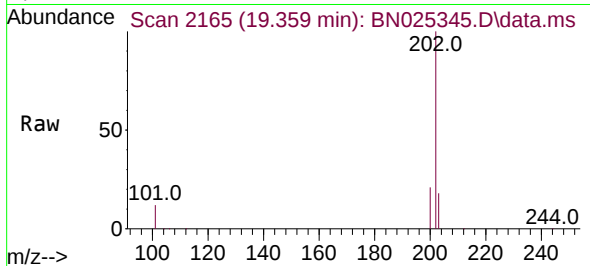
Tgt Ion:212 Resp: 762
 Ion Ratio Lower Upper
 212 100
 106 1.3 12.6 19.0#
 104 23.2 7.0 10.6#





#28
Fluoranthene
Concen: 3.146 ng
RT: 19.359 min Scan# 2165
Delta R.T. -0.004 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

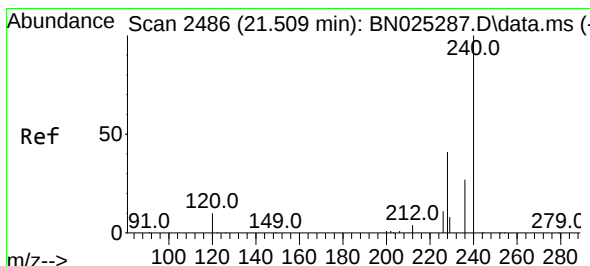
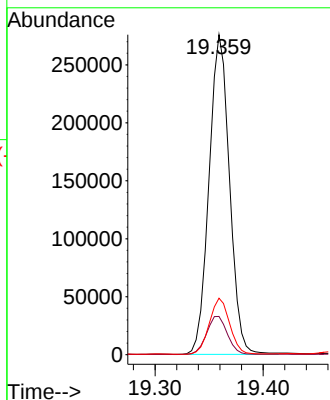
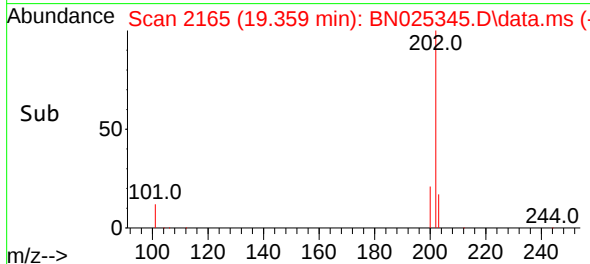
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



Tgt Ion:202 Resp: 36298
Ion Ratio Lower Upper
202 100
101 12.2 9.8 14.8
203 17.3 13.5 20.3

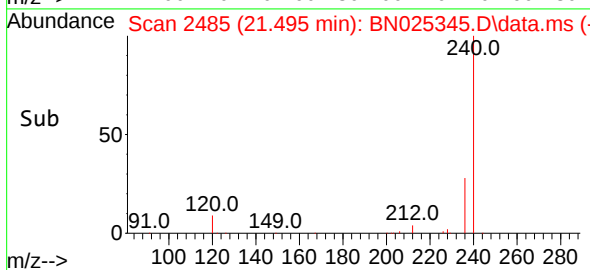
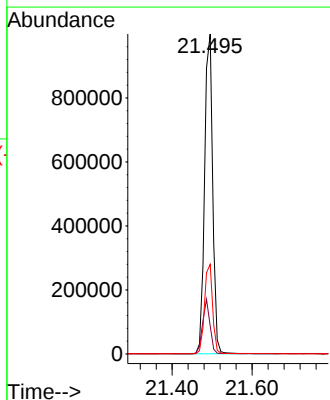
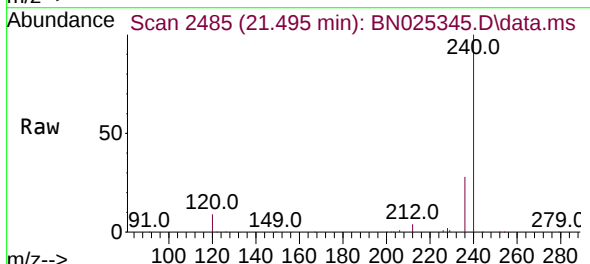
Manual Integrations
APPROVED

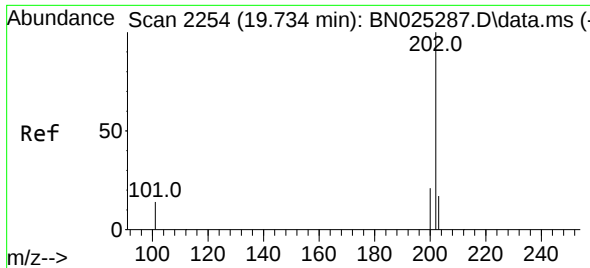
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#29
Chrysene-d12
Concen: 20.000 ng
RT: 21.495 min Scan# 2485
Delta R.T. -0.005 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

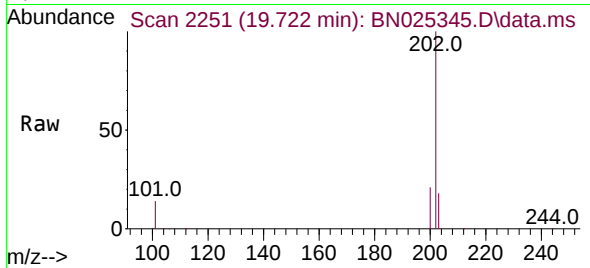
Tgt Ion:240 Resp: 1404361
Ion Ratio Lower Upper
240 100
120 8.7 10.3 15.5#
236 28.0 22.3 33.5





#30
Pyrene
Concen: 3.206 ng
RT: 19.722 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

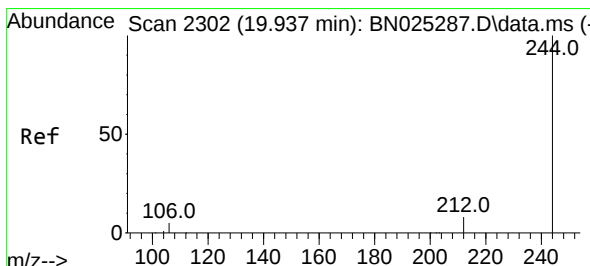
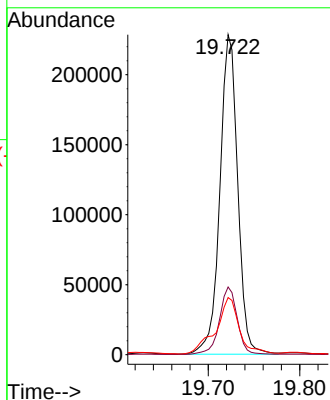
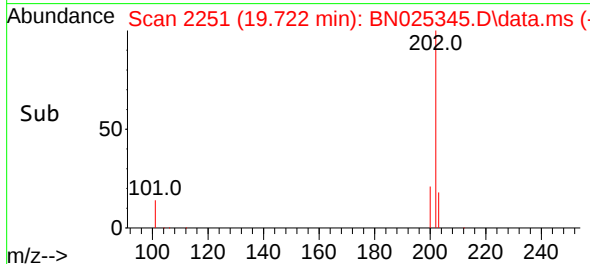
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



Tgt Ion:202 Resp: 307885
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 23.1 14.4 21.6

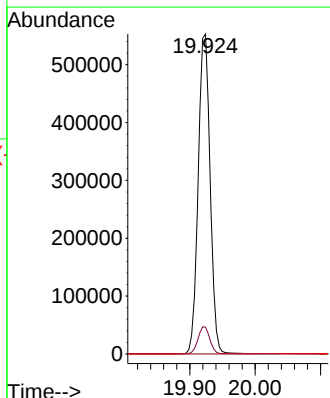
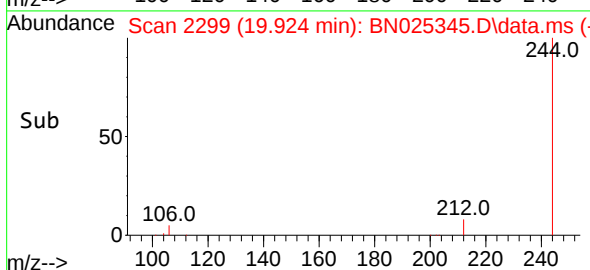
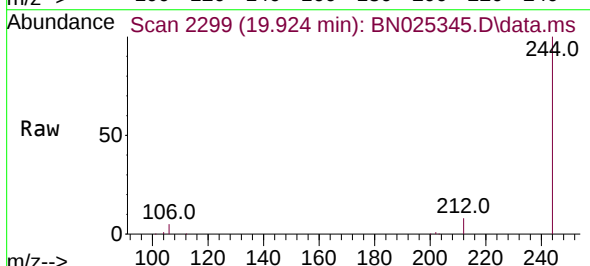
Manual Integrations
APPROVED

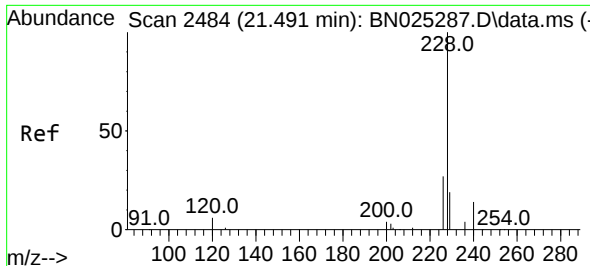
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#31
Terphenyl-d14
Concen: 13.631 ng
RT: 19.924 min Scan# 2299
Delta R.T. -0.004 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

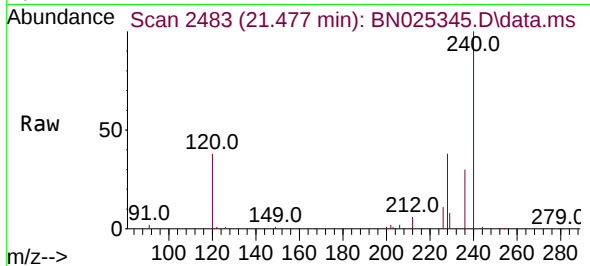
Tgt Ion:244 Resp: 771965
Ion Ratio Lower Upper
244 100
212 8.4 7.1 10.7
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 1.703 ng
RT: 21.477 min Scan# 2483
Delta R.T. -0.005 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

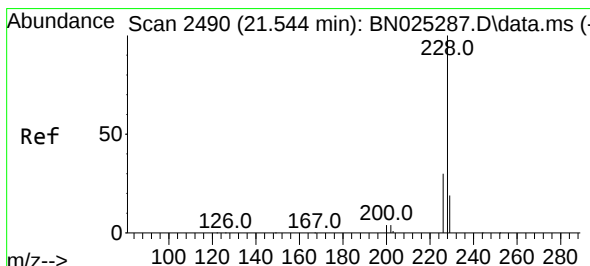
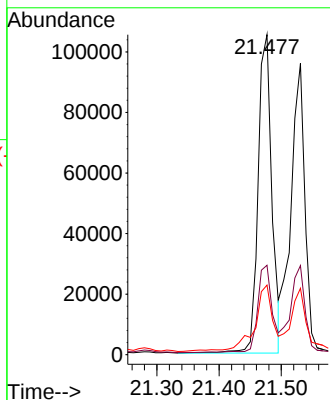
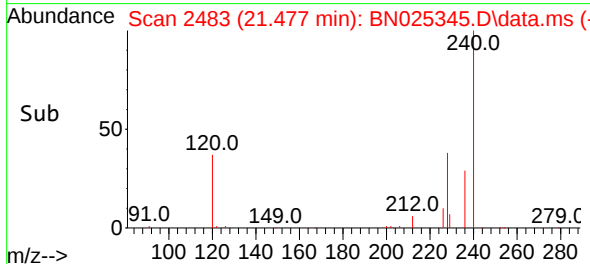
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



Tgt Ion:228 Resp: 161674
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 21.8 16.2 24.2

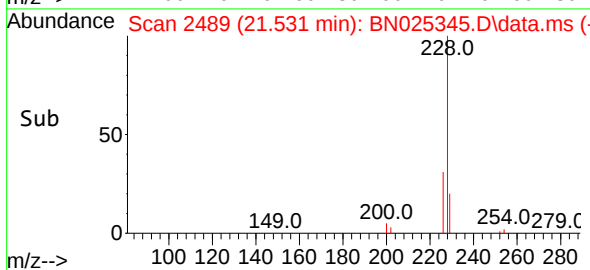
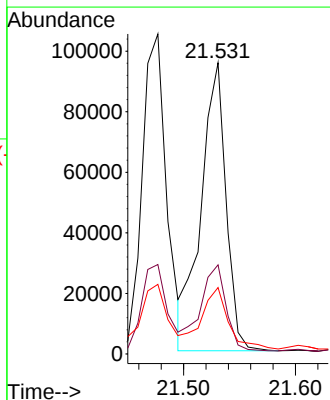
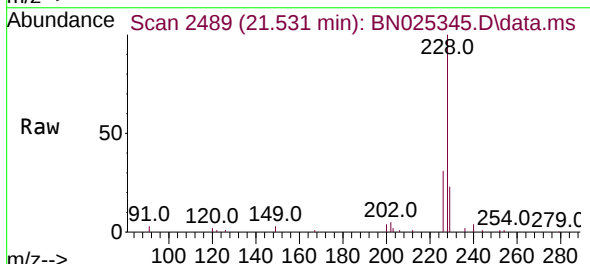
Manual Integrations
APPROVED

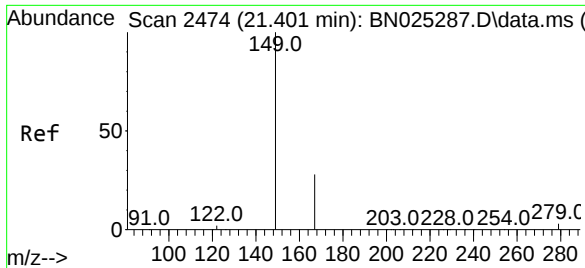
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#33
Chrysene
Concen: 1.568 ng
RT: 21.531 min Scan# 2489
Delta R.T. -0.005 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

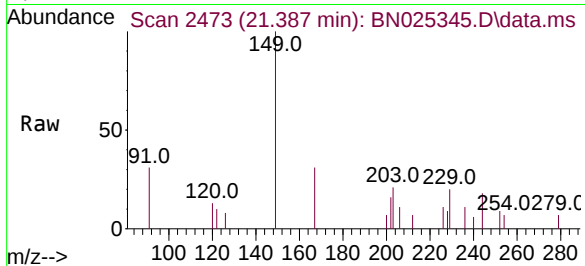
Tgt Ion:228 Resp: 148134
Ion Ratio Lower Upper
228 100
226 30.6 24.6 36.8
229 22.8 16.2 24.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.092 ng
RT: 21.387 min Scan# 2473
Delta R.T. -0.005 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

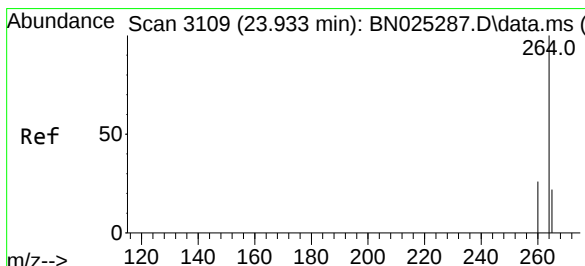
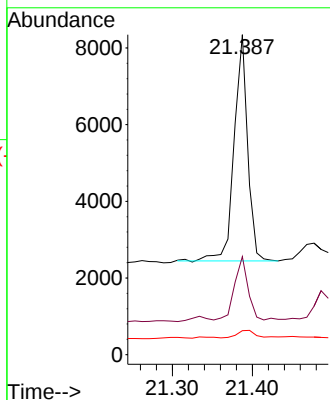
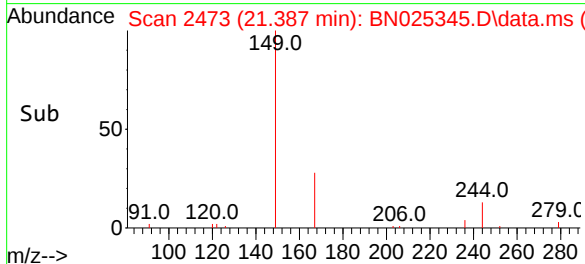
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



Tgt Ion:149 Resp: 688
Ion Ratio Lower Upper
149 100
167 28.7 22.2 33.4
279 4.6 2.6 4.0

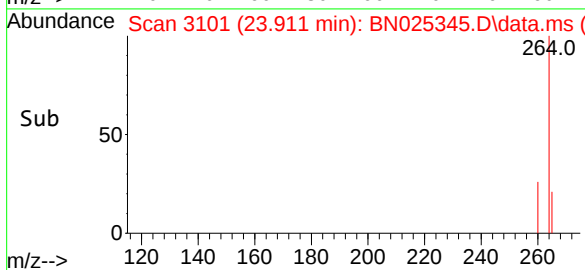
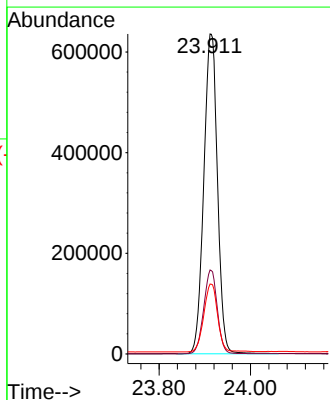
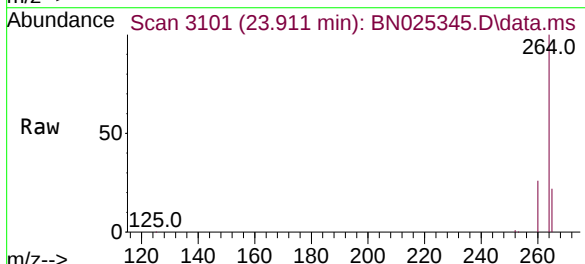
Manual Integrations
APPROVED

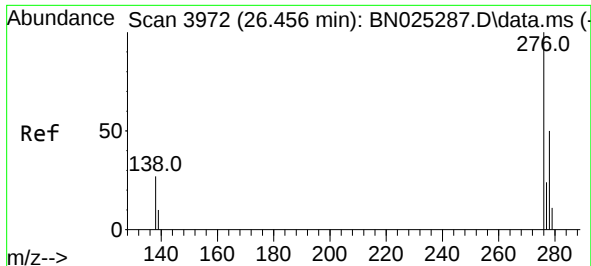
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#35
Perylene-d12
Concen: 20.000 ng
RT: 23.911 min Scan# 3101
Delta R.T. -0.019 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

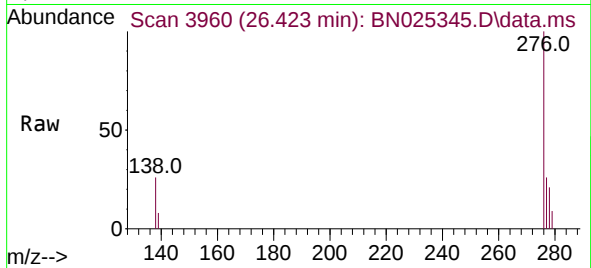
Tgt Ion:264 Resp: 1314142
Ion Ratio Lower Upper
264 100
260 26.2 21.5 32.3
265 21.9 46.2 69.4





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.603 ng
RT: 26.423 min Scan# 3972
Delta R.T. -0.025 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

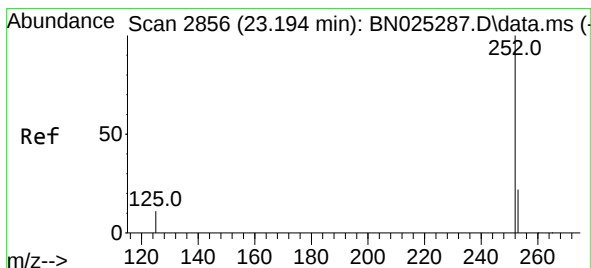
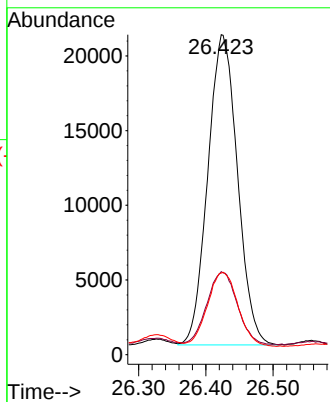
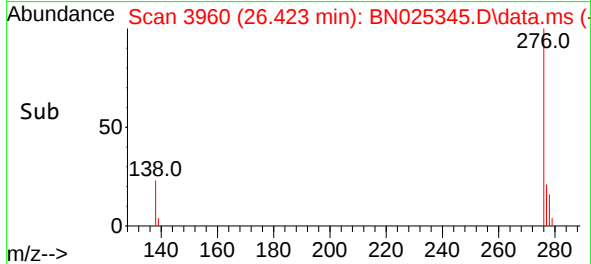
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



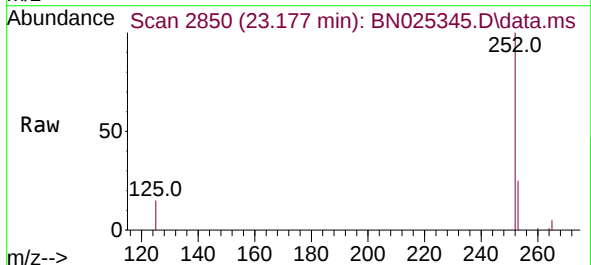
Tgt Ion:276 Resp: 63550
Ion Ratio Lower Upper
276 100
138 23.9 22.5 33.7
277 24.7 19.8 29.6

Manual Integrations
APPROVED

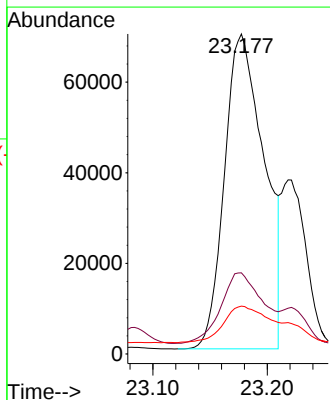
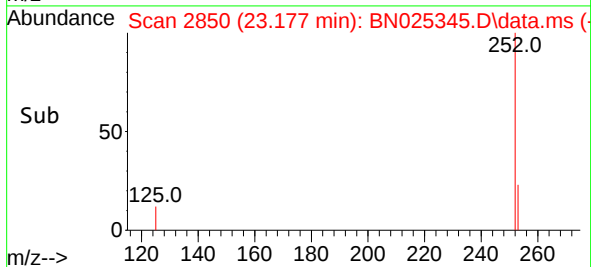
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

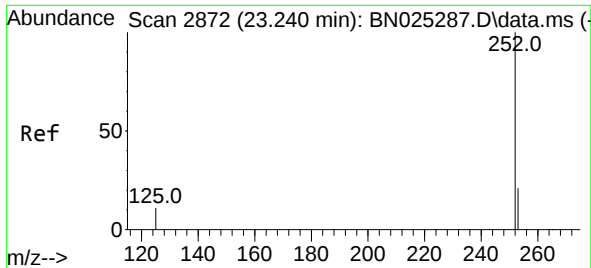


#37
Benzo(b)fluoranthene
Concen: 2.016 ng
RT: 23.177 min Scan# 2850
Delta R.T. -0.011 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34



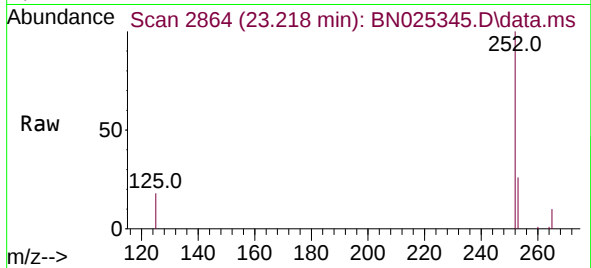
Tgt Ion:252 Resp: 167966
Ion Ratio Lower Upper
252 100
253 25.4 20.8 31.2
125 15.0 13.4 20.2





#38
Benzo(k)fluoranthene
Concen: 0.648 ng m
RT: 23.218 min Scan# 21
Delta R.T. -0.019 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

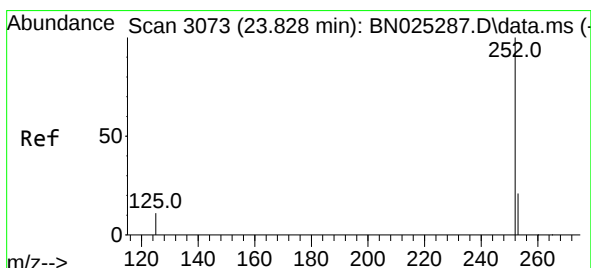
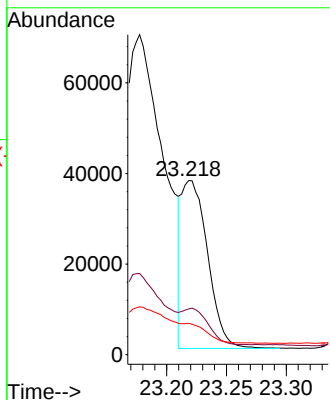
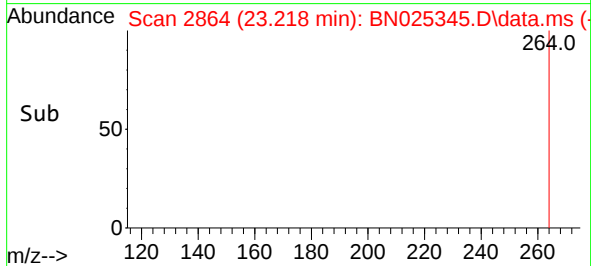
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



Tgt Ion:252 Resp: 56494
Ion Ratio Lower Upper
252 100
253 26.3 20.6 30.8
125 18.0 13.1 19.7

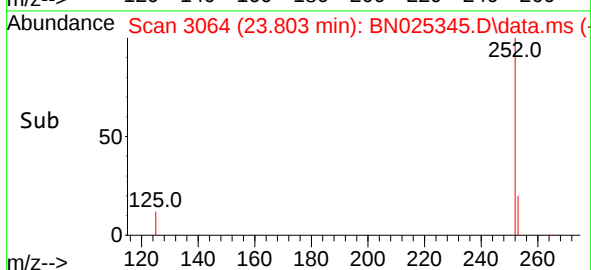
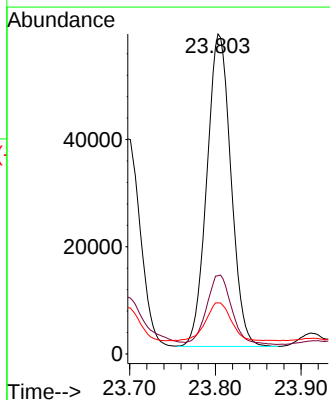
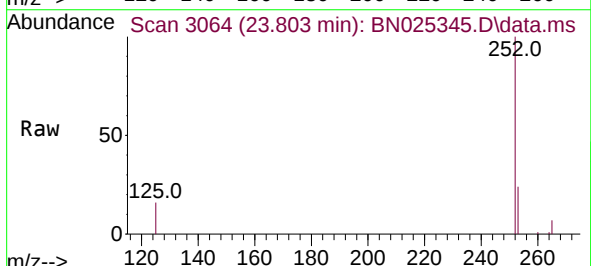
Manual Integrations
APPROVED

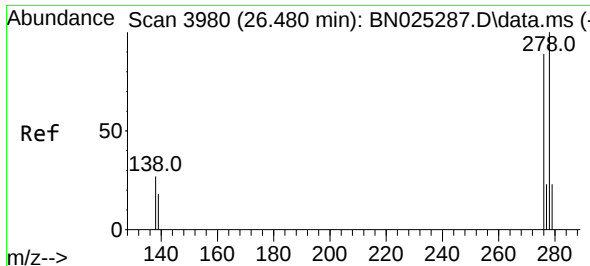
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#39
Benzo(a)pyrene
Concen: 1.333 ng
RT: 23.803 min Scan# 3064
Delta R.T. -0.019 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

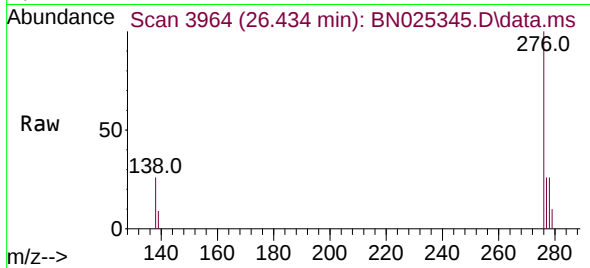
Tgt Ion:252 Resp: 113809
Ion Ratio Lower Upper
252 100
253 24.5 21.4 32.0
125 16.0 15.4 23.2





#40
Dibenzo(a,h)anthracene
Concen: 0.195 ng
RT: 26.434 min Scan# 3980
Delta R.T. -0.031 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

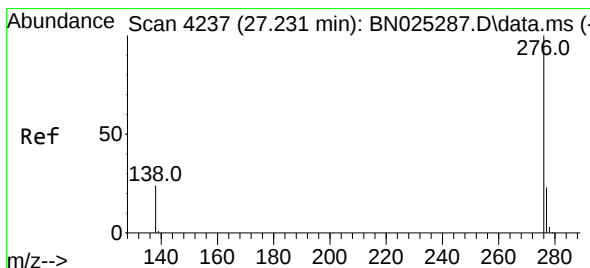
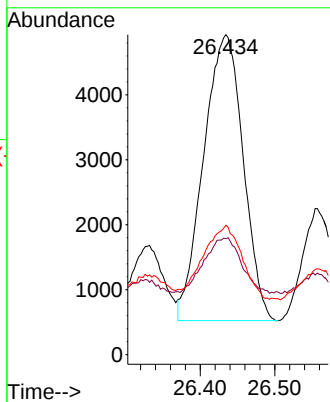
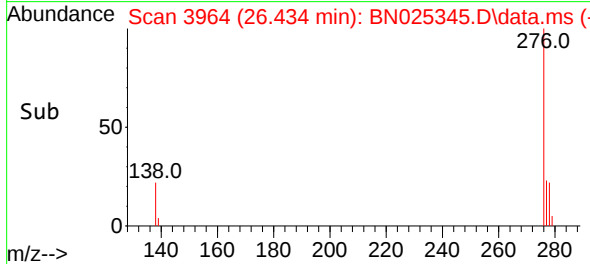
Instrument :
BNA_N
ClientSampleId :
ZONE-B-0-3-05012023DL



Tgt Ion:278 Resp: 16250
Ion Ratio Lower Upper
278 100
139 36.2 17.6 26.4
279 40.4 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: 0.670 ng
RT: 27.203 min Scan# 4227
Delta R.T. -0.025 min
Lab File: BN025345.D
Acq: 08 May 2023 22:34

Tgt Ion:276 Resp: 61202
Ion Ratio Lower Upper
276 100
277 25.5 20.1 30.1
138 26.4 21.0 31.6

