

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
 Data File : BN025342.D
 Acq On : 08 May 2023 20:46
 Operator : CG/JU
 Sample : 02588-07DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-A-0-3-05022023DL

Quant Time: May 09 04:04:19 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	7.904	152	6752	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	23611	0.400	ng	0.00
13) Acenaphthene-d10	14.544	164	14410	0.400	ng	0.00
19) Phenanthrene-d10	17.298	188	31956	0.400	ng	0.00
29) Chrysene-d12	21.491	240	31347	0.400	ng	# 0.00
35) Perylene-d12	23.927	264	30317	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.463	112	725	0.044	ng	0.00
5) Phenol-d6	7.095	99	919	0.045	ng	0.02
8) Nitrobenzene-d5	9.105	82	597	0.031	ng	0.02
11) 2-Methylnaphthalene-d10	12.317	152	1320	0.041	ng	0.01
14) 2,4,6-Tribromophenol	16.057	330	276	0.037	ng	0.00
15) 2-Fluorobiphenyl	13.176	172	2052	0.042	ng	0.00
27) Fluoranthene-d10	19.329	212	3050	0.039	ng	0.00
31) Terphenyl-d14	19.924	244	2671	0.042	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.771	128	3859	0.064	ng	# 89
12) 2-Methylnaphthalene	12.389	142	1481	0.035	ng	# 87
16) Acenaphthylene	14.266	152	6417	0.099	ng	99
17) Acenaphthene	14.608	154	2953	0.074	ng	99
18) Fluorene	15.603	166	4346	0.079	ng	# 98
25) Phenanthrene	17.336	178	57068	0.645	ng	100
26) Anthracene	17.435	178	14107	0.170	ng	98
28) Fluoranthene	19.359	202	146346	1.325	ng	99
30) Pyrene	19.721	202	130712	1.220	ng	96
32) Benzo(a)anthracene	21.482	228	73399	0.693	ng	98
33) Chrysene	21.526	228	74429	0.706	ng	98
34) Bis(2-ethylhexyl)phtha...	21.392	149	12871	0.155	ng	99
36) Indeno(1,2,3-cd)pyrene	26.468	276	37162	0.306	ng	95
37) Benzo(b)fluoranthene	23.188	252	96193	1.001	ng	99
38) Benzo(k)fluoranthene	23.229	252	31844m	0.317	ng	
39) Benzo(a)pyrene	23.825	252	62735	0.637	ng	99
40) Dibenzo(a,h)anthracene	26.474	278	9216m	0.096	ng	
41) Benzo(g,h,i)perylene	27.255	276	37514	0.356	ng	98

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

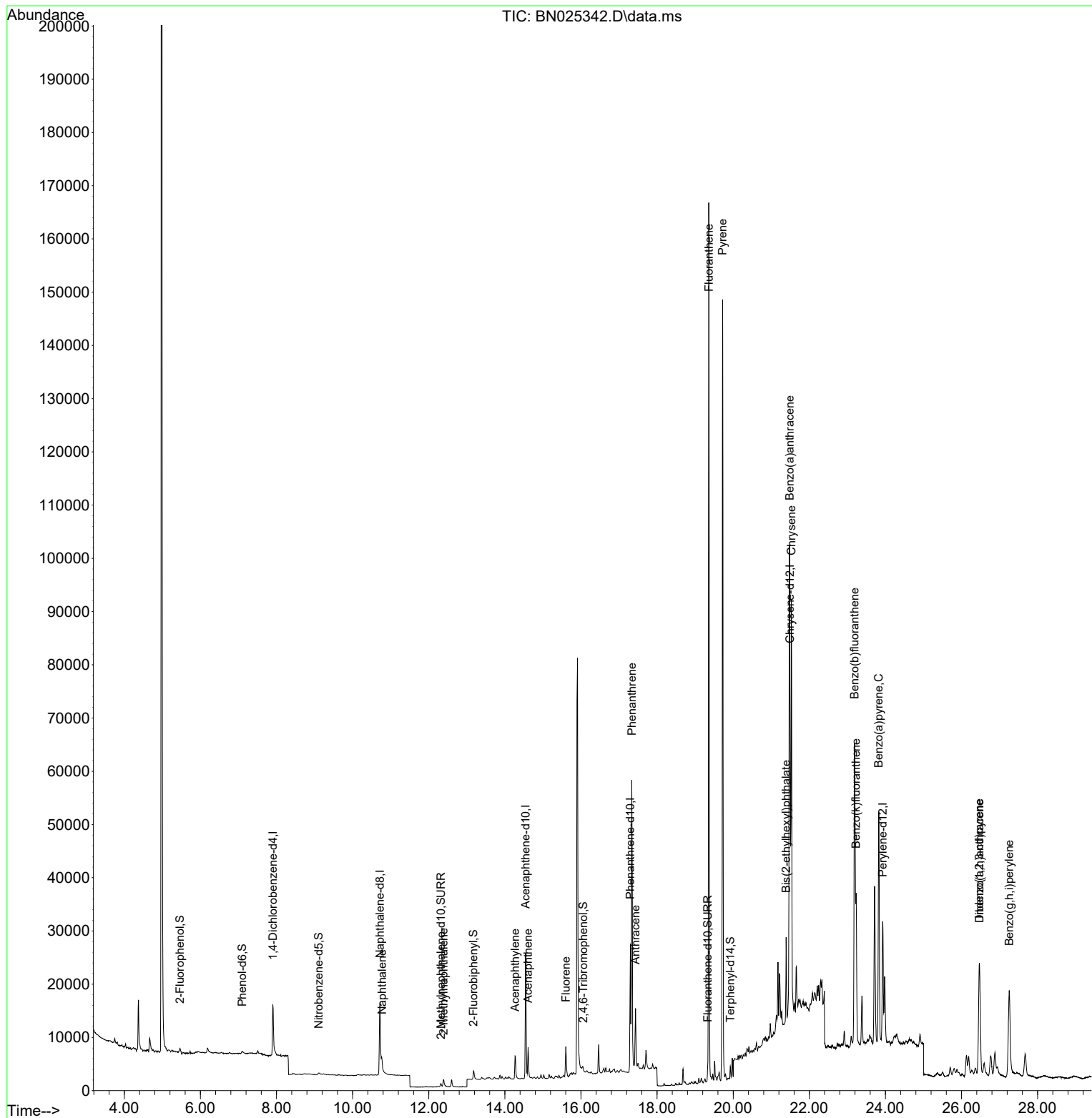
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
Data File : BN025342.D
Acq On : 08 May 2023 20:46
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ALS Vial : 15 Sample Multiplier: 1

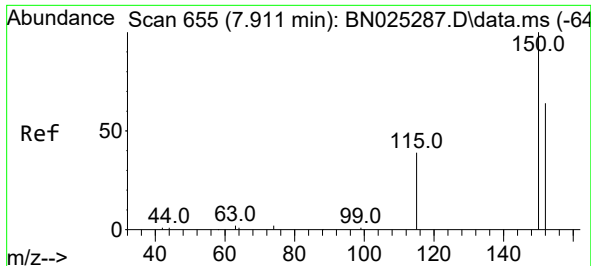
Instrument :
BNA_N
ClientSampleId :
ZONE-A-0-3-05022023DL

Quant Time: May 09 04:04:19 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
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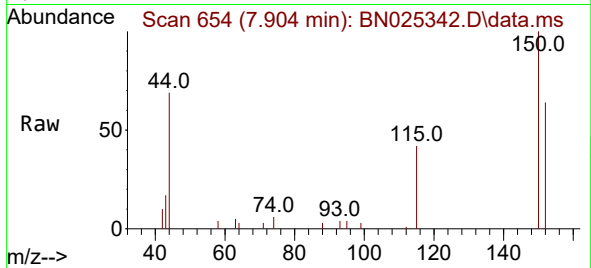
Reviewed By : Christian Giraldo 05/09/2023
Supervised By : Jagrut Upadhyay 05/09/2023





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.904 min Scan# 612
Delta R.T. -0.000 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

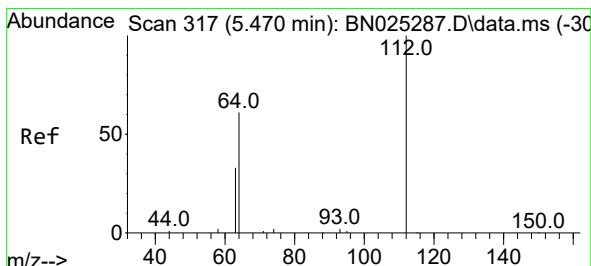
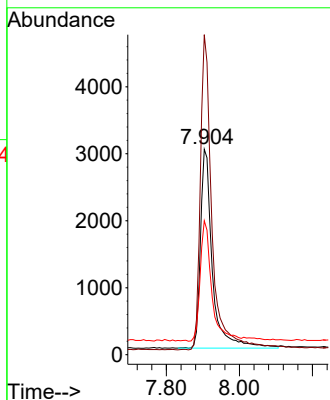
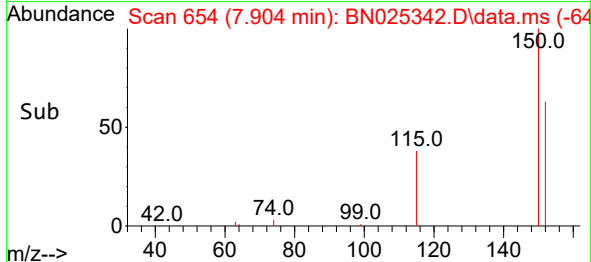
Instrument :
BNA_N
ClientSampleId :
ZONE-A-0-3-05022023DL



Tgt Ion:152 Resp: 6752
Ion Ratio Lower Upper
152 100
150 155.7 123.8 185.8
115 65.2 52.9 79.3

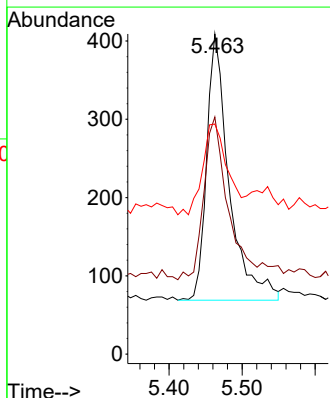
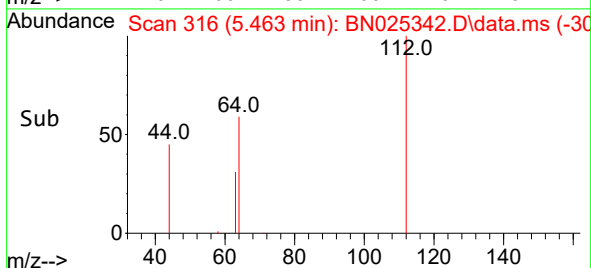
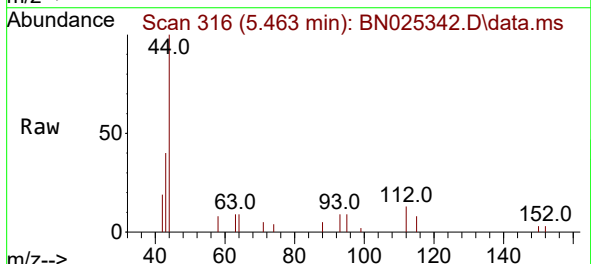
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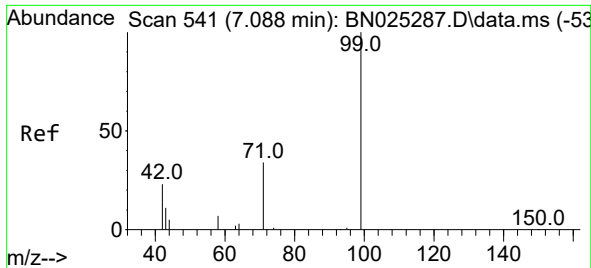
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#4
2-Fluorophenol
Concen: 0.044 ng
RT: 5.463 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

Tgt Ion:112 Resp: 725
Ion Ratio Lower Upper
112 100
64 65.1 51.5 77.3
63 39.0 27.8 41.6





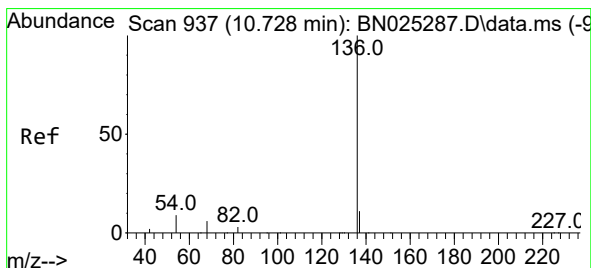
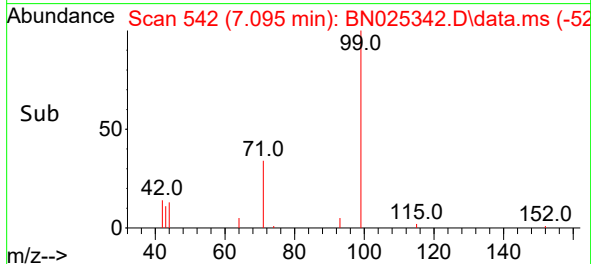
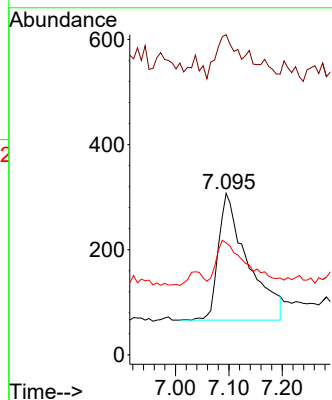
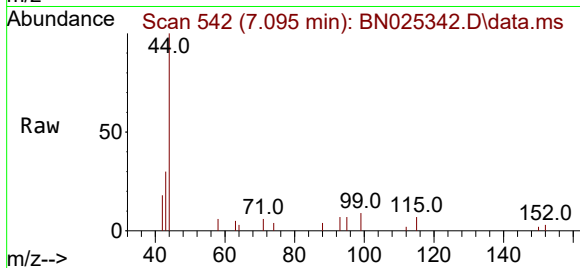
#5
Phenol-d6
Concen: 0.045 ng
RT: 7.095 min Scan# 541
Delta R.T. 0.021 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

Instrument :
BNA_N
ClientSampleId :
ZONE-A-0-3-05022023DL

Tgt Ion: 99 Resp: 919
Ion Ratio Lower Upper
99 100
42 31.0 22.0 33.0
71 30.5 28.7 43.1

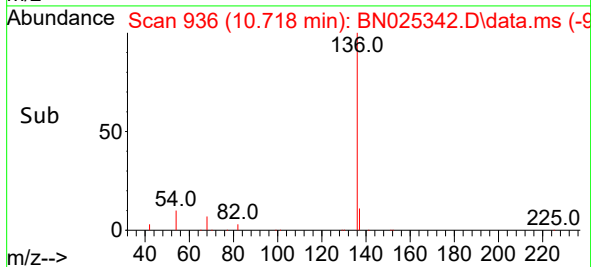
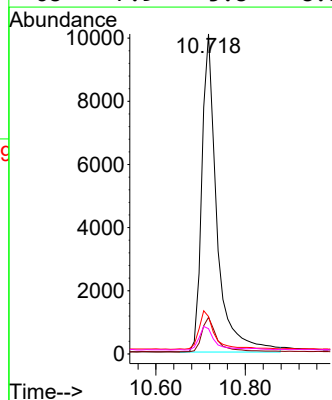
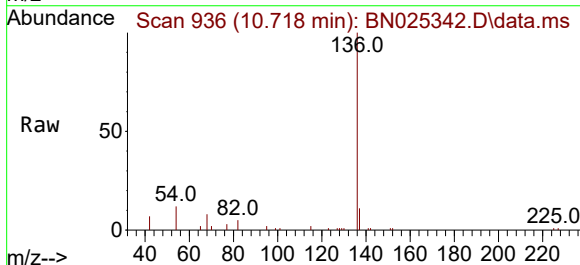
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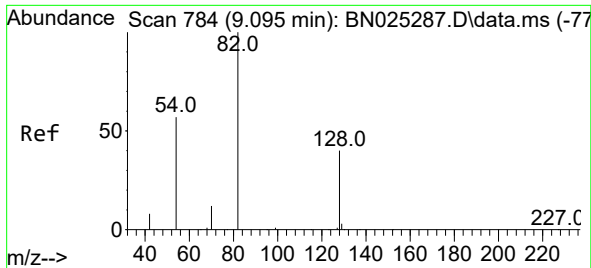
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. -0.000 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

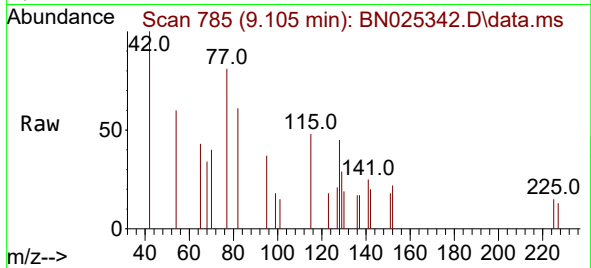
Tgt Ion:136 Resp: 23611
Ion Ratio Lower Upper
136 100
137 11.5 9.4 14.2
54 11.7 8.5 12.7
68 7.9 5.8 8.8





#8
Nitrobenzene-d5
Concen: 0.031 ng
RT: 9.105 min Scan# 784
Delta R.T. 0.021 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

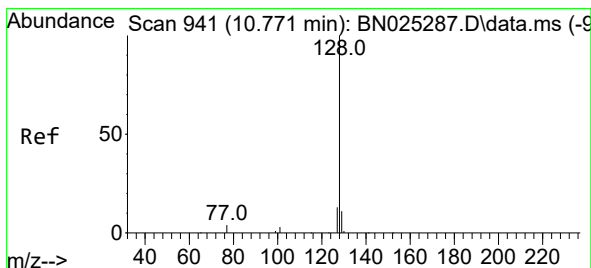
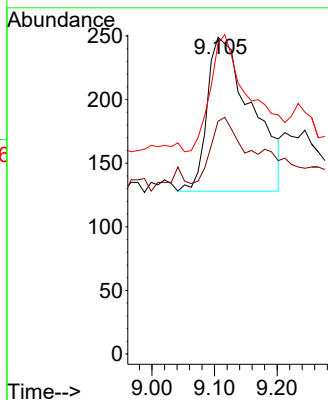
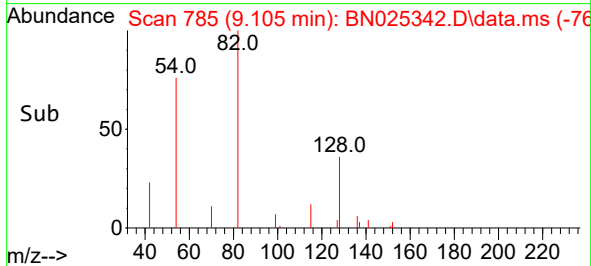
Instrument :
BNA_N
ClientSampleId :
ZONE-A-0-3-05022023DL



Tgt Ion: 82 Resp: 597
Ion Ratio Lower Upper
82 100
128 73.5 35.3 52.9#
54 98.0 48.7 73.1#

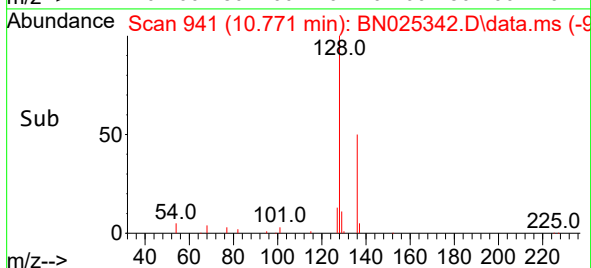
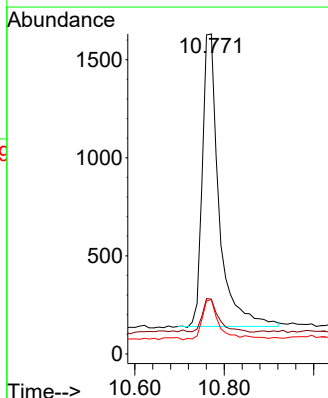
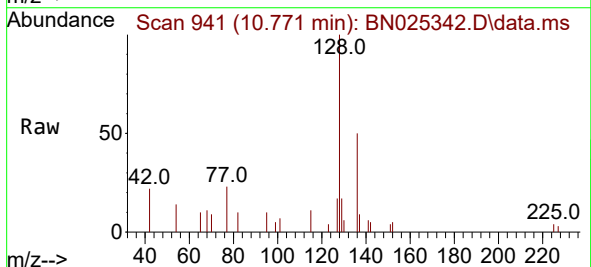
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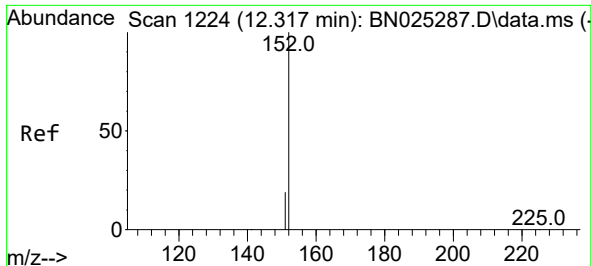
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#9
Naphthalene
Concen: 0.064 ng
RT: 10.771 min Scan# 941
Delta R.T. 0.010 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

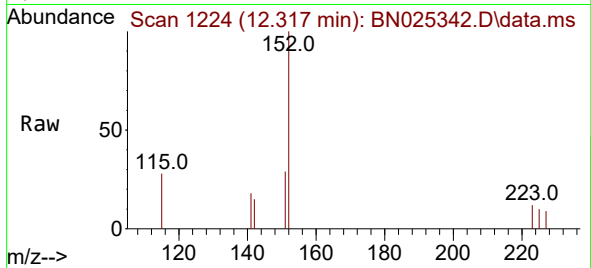
Tgt Ion:128 Resp: 3859
Ion Ratio Lower Upper
128 100
129 17.2 9.4 14.2#
127 17.0 11.0 16.6#





#11
2-Methylnaphthalene-d10
Concen: 0.041 ng
RT: 12.317 min Scan# 11
Delta R.T. 0.011 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

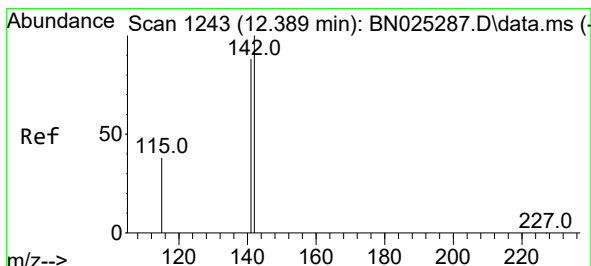
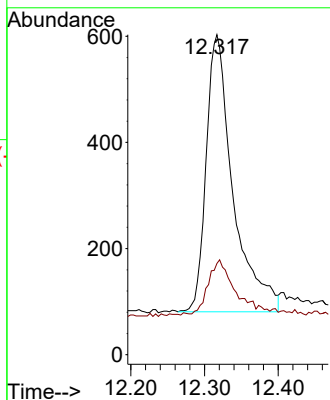
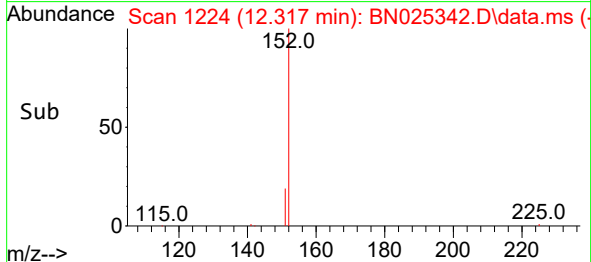
Instrument :
BNA_N
ClientSampleId :
ZONE-A-0-3-05022023DL



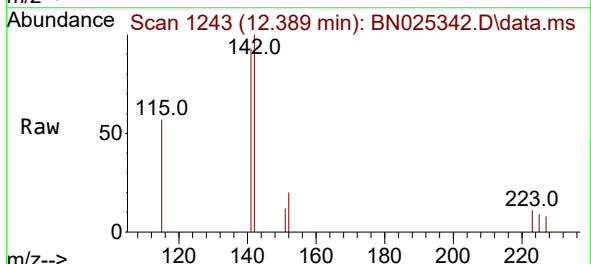
Tgt Ion:152 Resp: 1320
Ion Ratio Lower Upper
152 100
151 19.1 16.4 24.6

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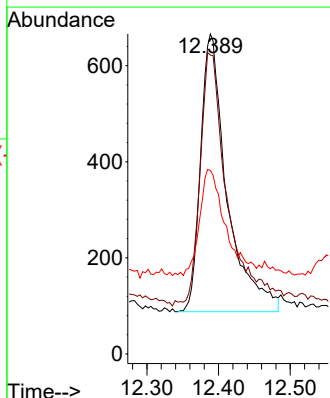
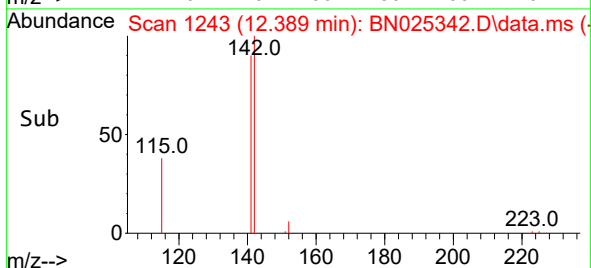
Reviewed By :Christian Giraldo 05/09/2023
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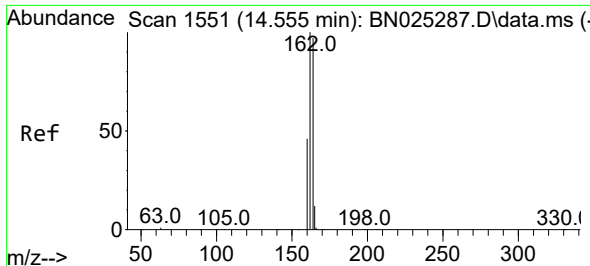


#12
2-Methylnaphthalene
Concen: 0.035 ng
RT: 12.389 min Scan# 1243
Delta R.T. 0.007 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46



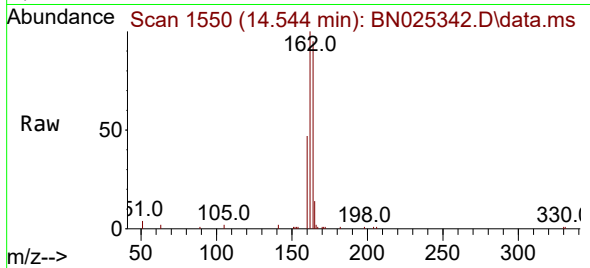
Tgt Ion:142 Resp: 1481
Ion Ratio Lower Upper
142 100
141 93.4 70.5 105.7
115 57.4 31.6 47.4#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.544 min Scan# 1551
Delta R.T. -0.000 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

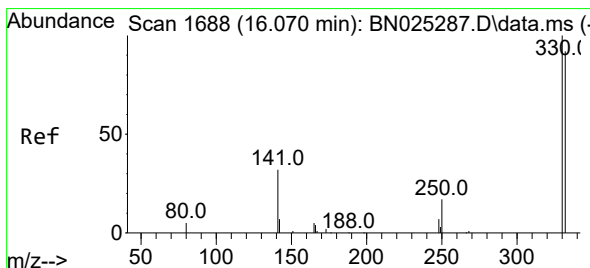
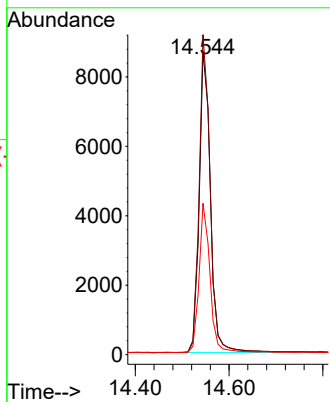
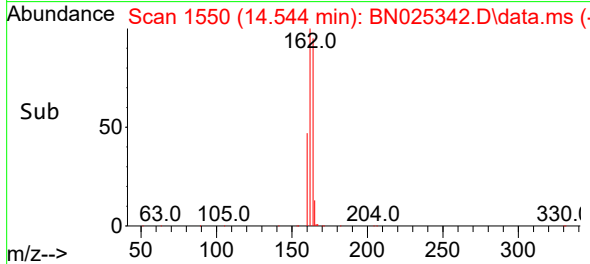
Instrument :
BNA_N
ClientSampleId :
ZONE-A-0-3-05022023DL



Tgt Ion:164 Resp: 14410
Ion Ratio Lower Upper
164 100
162 105.5 82.1 123.1
160 49.9 38.3 57.5

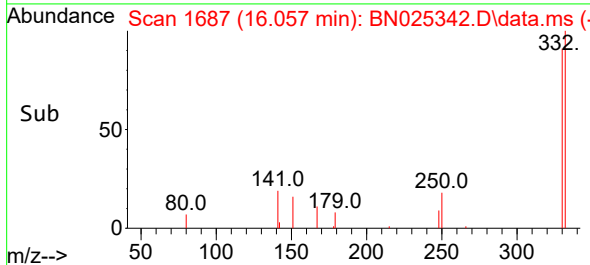
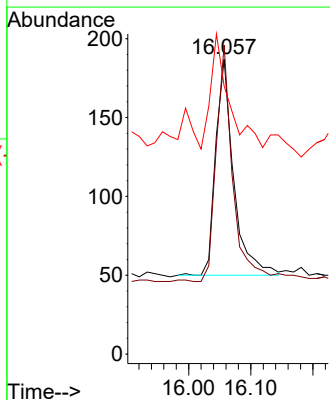
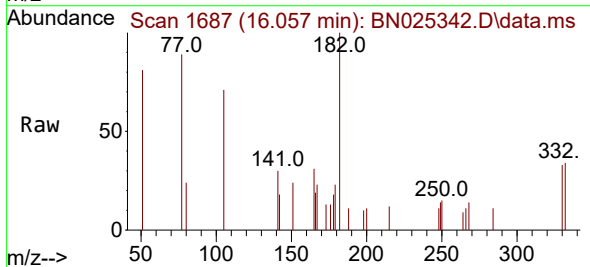
Manual Integrations
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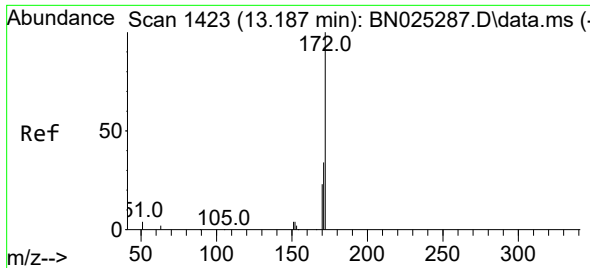
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#14
2,4,6-Tribromophenol
Concen: 0.037 ng
RT: 16.057 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

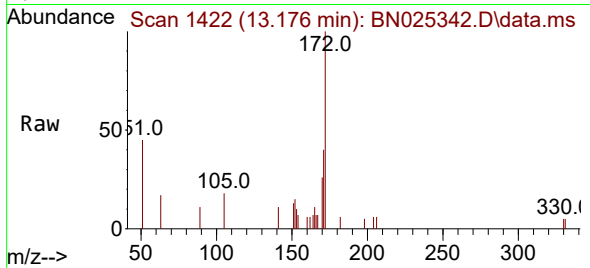
Tgt Ion:330 Resp: 276
Ion Ratio Lower Upper
330 100
332 102.5 77.4 116.0
141 53.6 28.9 43.3#





#15
2-Fluorobiphenyl
Concen: 0.042 ng
RT: 13.176 min Scan# 1423
Delta R.T. -0.000 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

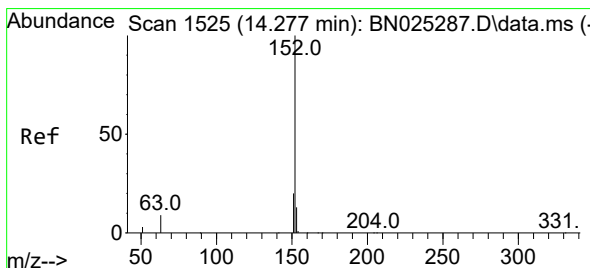
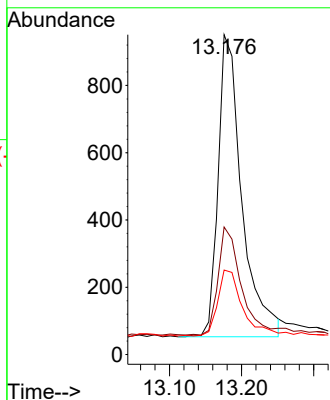
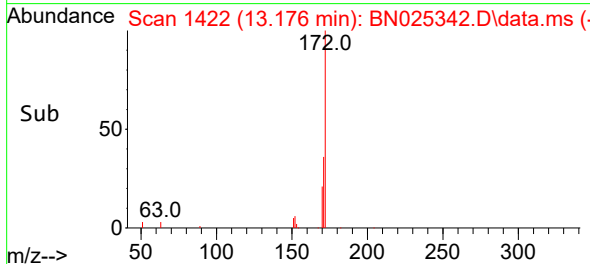
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ZONE-A-0-3-05022023DL



Tgt Ion:172 Resp: 2052
Ion Ratio Lower Upper
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170 26.4 19.0 28.4

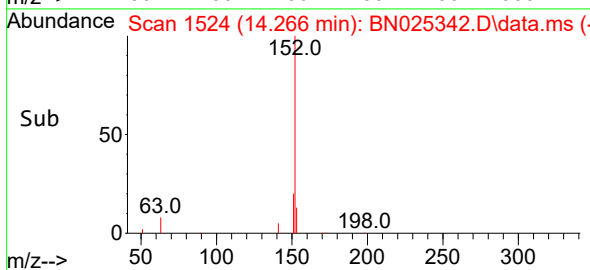
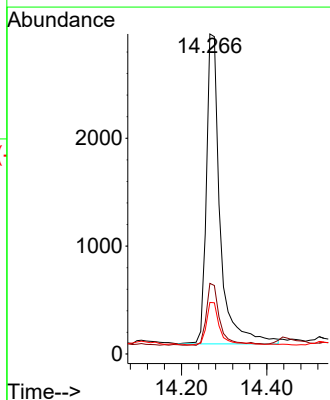
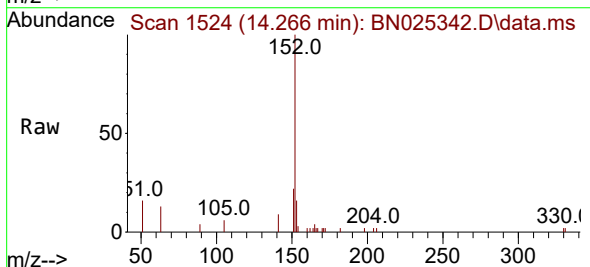
Manual Integrations
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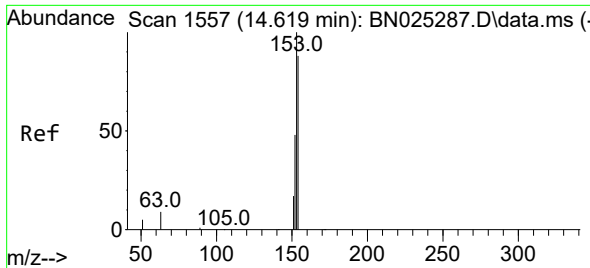
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#16
Acenaphthylene
Concen: 0.099 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.000 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

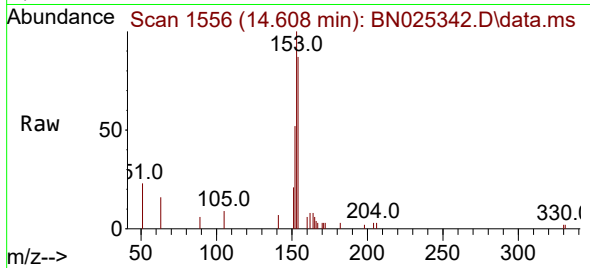
Tgt Ion:152 Resp: 6417
Ion Ratio Lower Upper
152 100
151 19.5 16.1 24.1
153 13.4 10.3 15.5





#17
Acenaphthene
Concen: 0.074 ng
RT: 14.608 min Scan# 1556
Delta R.T. -0.000 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

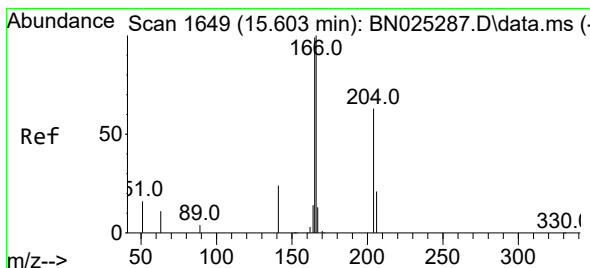
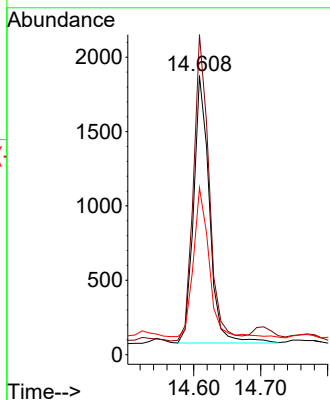
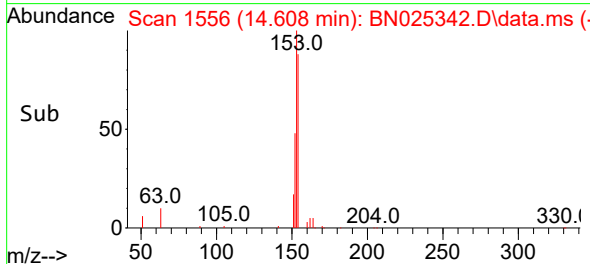
Instrument :
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ClientSampleId :
ZONE-A-0-3-05022023DL



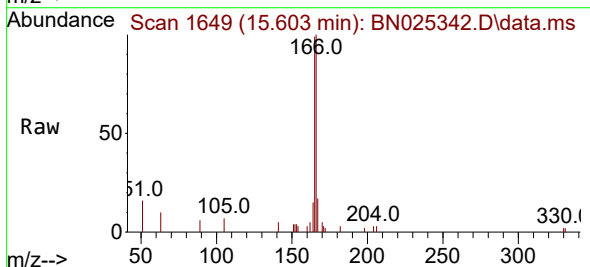
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Ion Ratio Lower Upper
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152 56.5 44.7 67.1

Manual Integrations
APPROVED

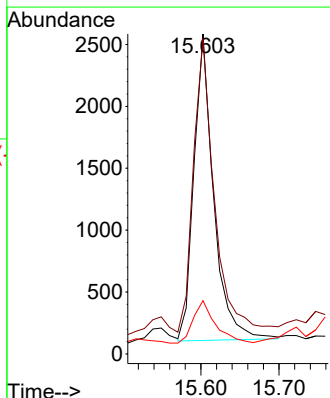
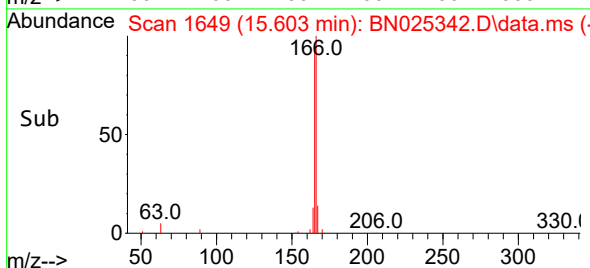
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

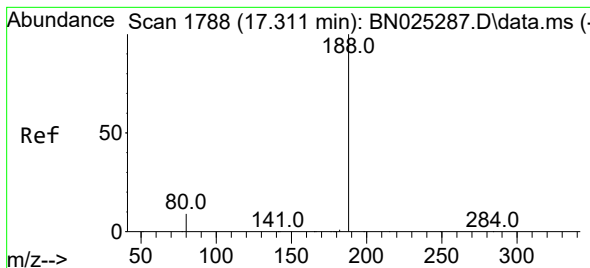


#18
Fluorene
Concen: 0.079 ng
RT: 15.603 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46



Tgt Ion:166 Resp: 4346
Ion Ratio Lower Upper
166 100
165 100.6 79.0 118.4
167 15.6 10.3 15.5#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.298 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN025342.D

Acq: 08 May 2023 20:46

Instrument :

BNA_N

ClientSampleId :

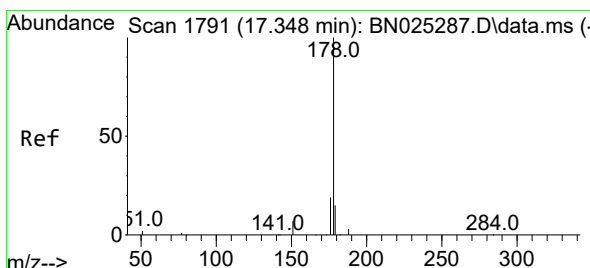
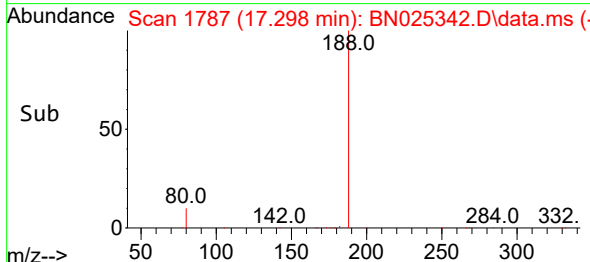
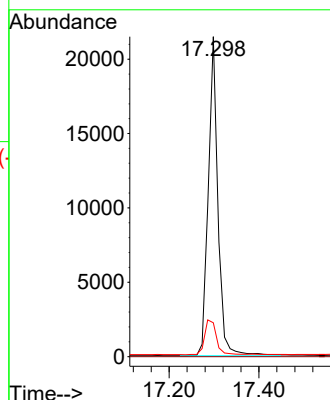
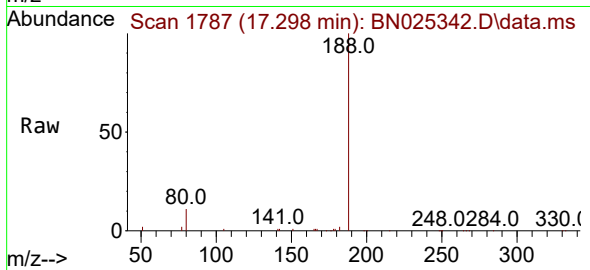
ZONE-A-0-3-05022023DL

Tgt Ion:188 Resp: 31950
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 10.6 8.0 12.0

Manual Integrations

APPROVED

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



#25

Phenanthrene

Concen: 0.645 ng

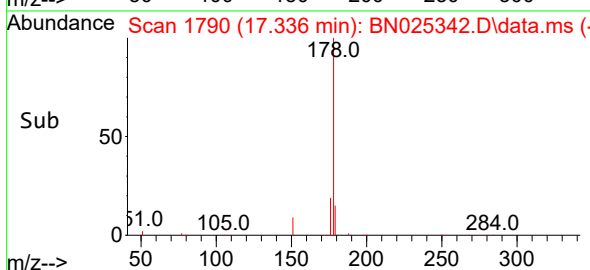
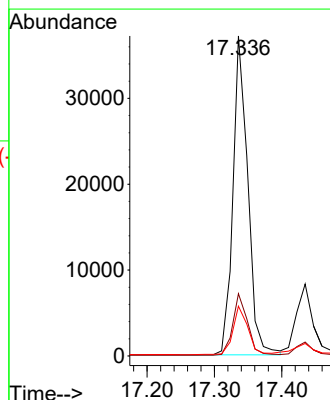
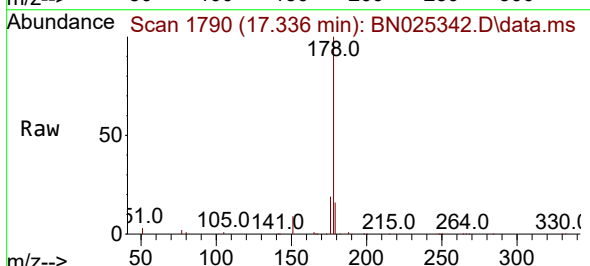
RT: 17.336 min Scan# 1790

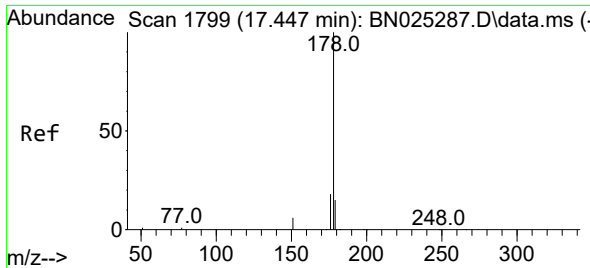
Delta R.T. -0.000 min

Lab File: BN025342.D

Acq: 08 May 2023 20:46

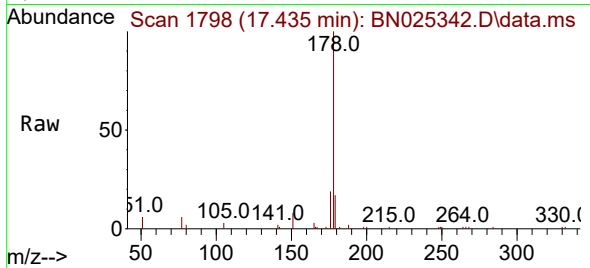
Tgt Ion:178 Resp: 57068
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.5 23.3
 179 15.5 12.4 18.6





#26
 Anthracene
 Concen: 0.170 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN025342.D
 Acq: 08 May 2023 20:46

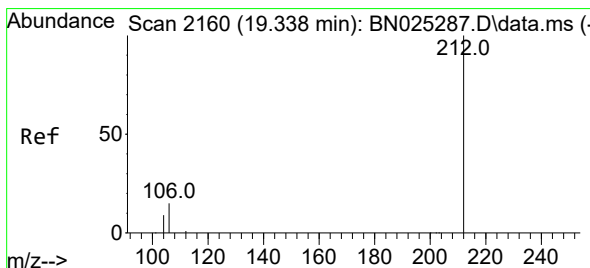
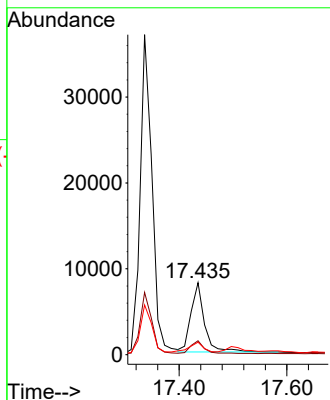
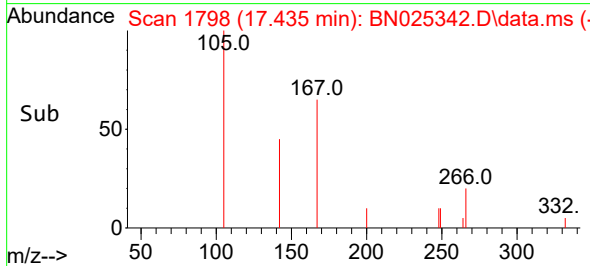
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-A-0-3-05022023DL



Tgt Ion:178 Resp: 1410
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.9 22.3
 179 13.9 12.0 18.0

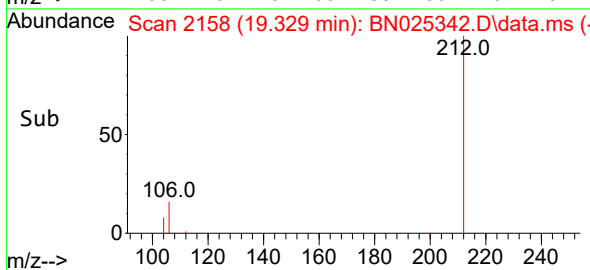
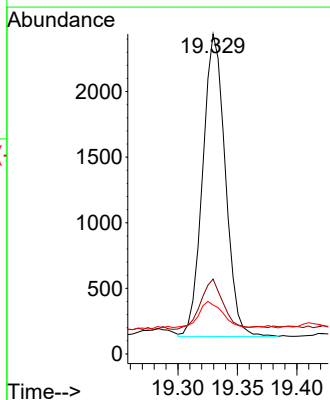
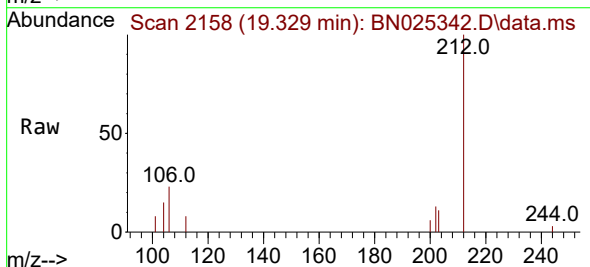
Manual Integrations
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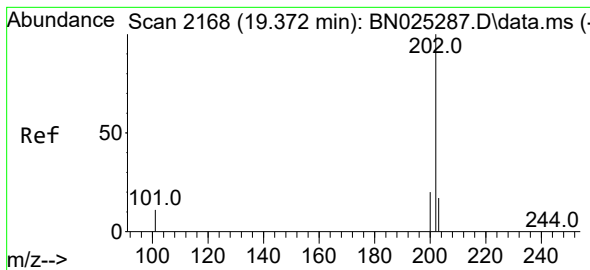
Reviewed By :Christian Giraldo 05/09/2023
 Supervised By :Jagrut Upadhyay 05/09/2023



#27
 Fluoranthene-d10
 Concen: 0.039 ng
 RT: 19.329 min Scan# 2158
 Delta R.T. -0.004 min
 Lab File: BN025342.D
 Acq: 08 May 2023 20:46

Tgt Ion:212 Resp: 3050
 Ion Ratio Lower Upper
 212 100
 106 16.5 12.6 19.0
 104 9.5 7.0 10.6





#28

Fluoranthene

Concen: 1.325 ng

RT: 19.359 min Scan# 2165

Delta R.T. -0.004 min

Lab File: BN025342.D

Acq: 08 May 2023 20:46

Instrument :

BNA_N

ClientSampleId :

ZONE-A-0-3-05022023DL

Tgt Ion:202 Resp: 146340

Ion Ratio Lower Upper

202 100

101 12.1 9.8 14.8

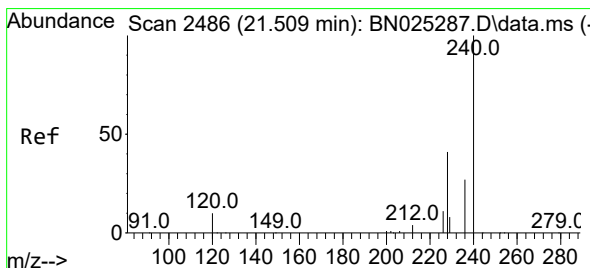
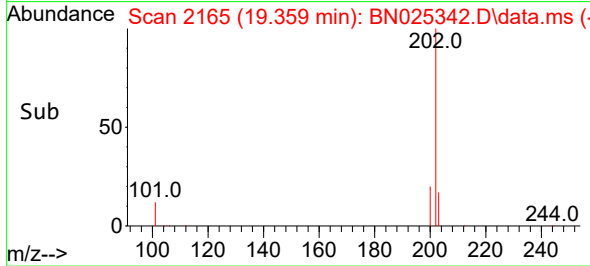
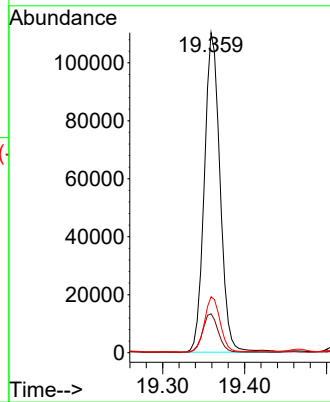
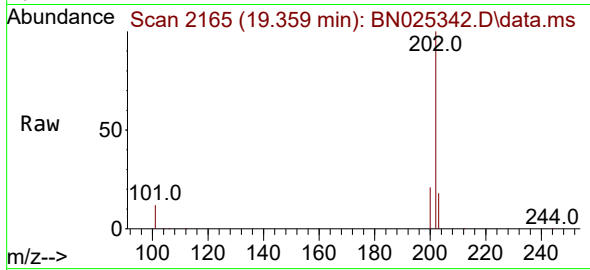
203 17.2 13.5 20.3

Manual Integrations

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Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.491 min Scan# 2484

Delta R.T. -0.009 min

Lab File: BN025342.D

Acq: 08 May 2023 20:46

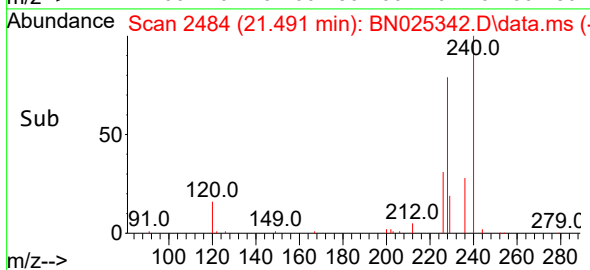
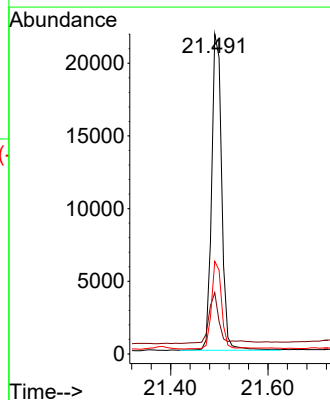
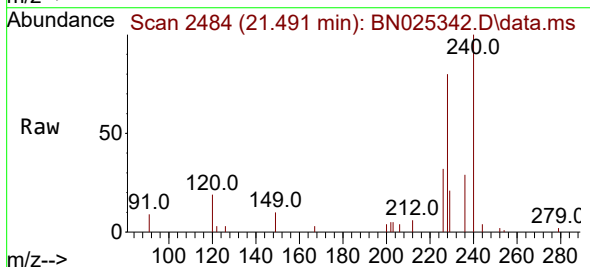
Tgt Ion:240 Resp: 31347

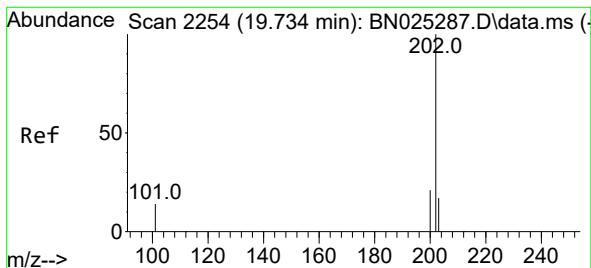
Ion Ratio Lower Upper

240 100

120 19.2 10.3 15.5

236 28.9 22.3 33.5





#30

Pyrene

Concen: 1.220 ng

RT: 19.721 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN025342.D

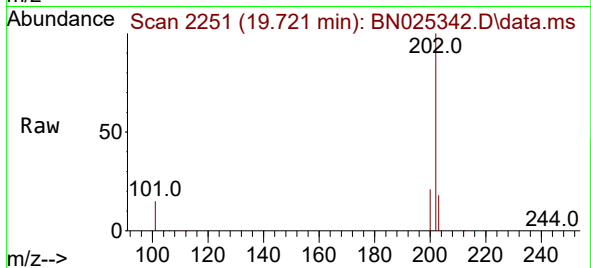
Acq: 08 May 2023 20:46

Instrument :

BNA_N

ClientSampleId :

ZONE-A-0-3-05022023DL



Tgt Ion:202 Resp: 13071

Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

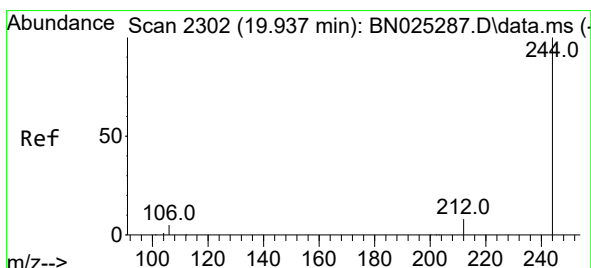
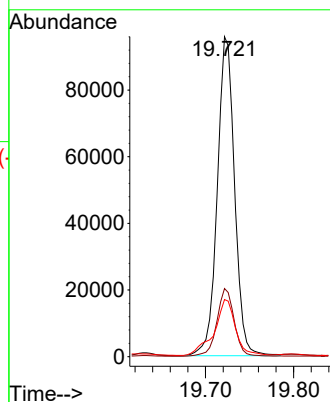
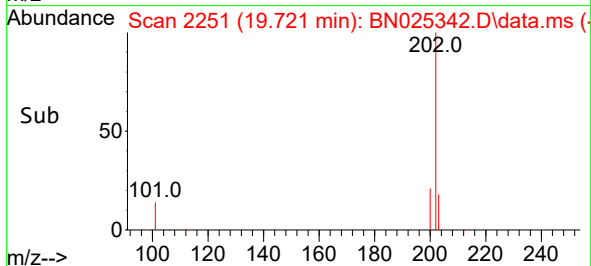
203 21.5 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#31

Terphenyl-d14

Concen: 0.042 ng

RT: 19.924 min Scan# 2299

Delta R.T. -0.004 min

Lab File: BN025342.D

Acq: 08 May 2023 20:46

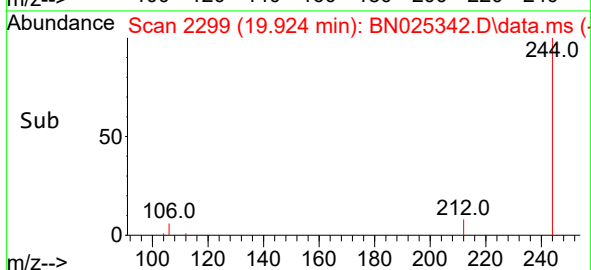
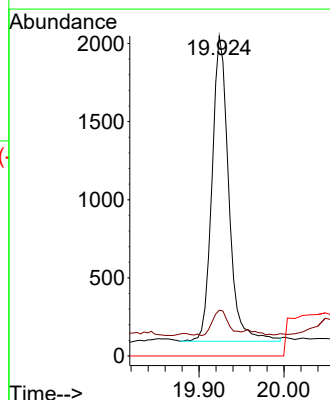
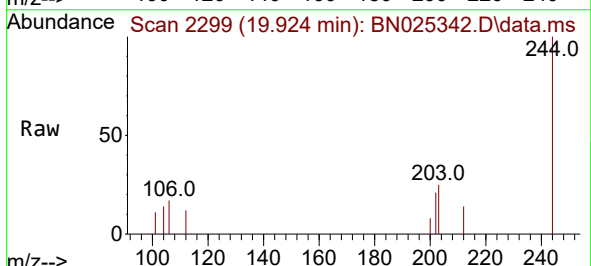
Tgt Ion:244 Resp: 2671

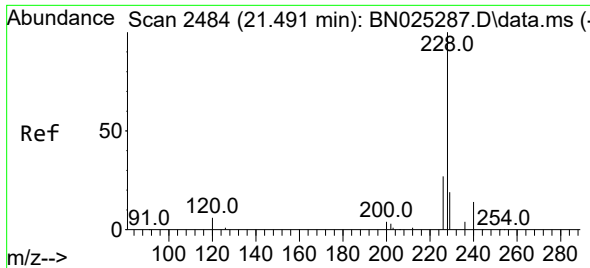
Ion Ratio Lower Upper

244 100

212 14.3 7.1 10.7#

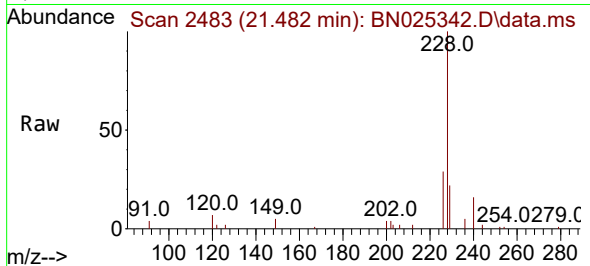
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 0.693 ng
RT: 21.482 min Scan# 2483
Delta R.T. -0.000 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

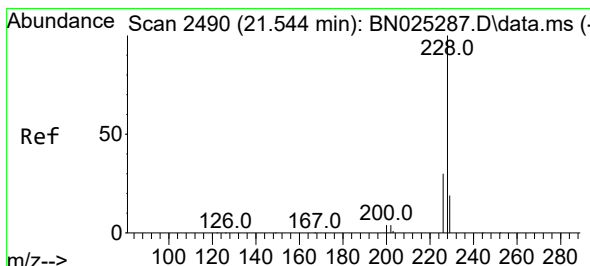
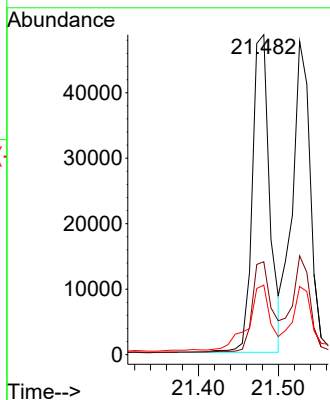
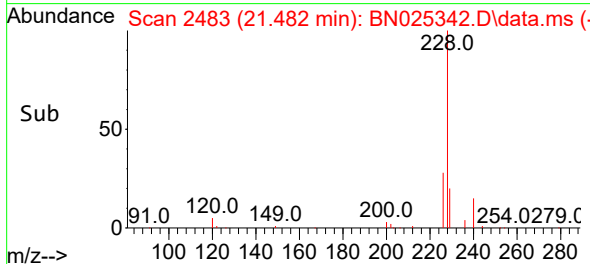
Instrument :
BNA_N
ClientSampleId :
ZONE-A-0-3-05022023DL



Tgt Ion:228 Resp: 73395
Ion Ratio Lower Upper
228 100
226 29.0 22.5 33.7
229 21.8 16.2 24.2

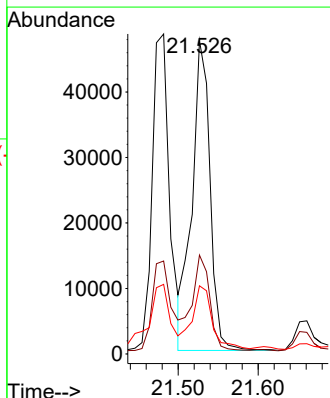
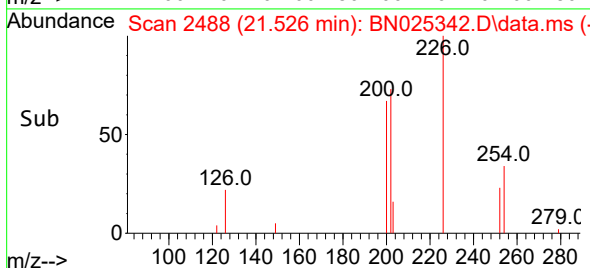
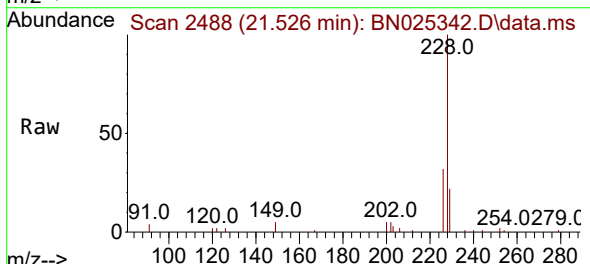
Manual Integrations
APPROVED

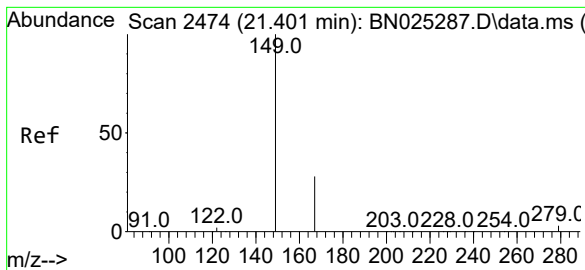
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#33
Chrysene
Concen: 0.706 ng
RT: 21.526 min Scan# 2488
Delta R.T. -0.009 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

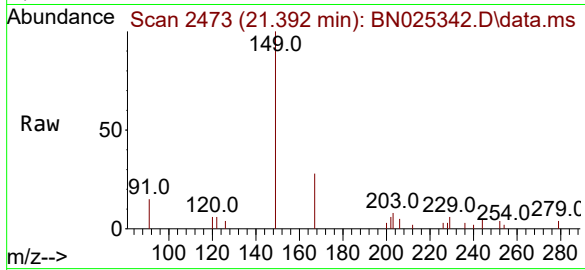
Tgt Ion:228 Resp: 74429
Ion Ratio Lower Upper
228 100
226 31.6 24.6 36.8
229 21.7 16.2 24.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.155 ng
RT: 21.392 min Scan# 2473
Delta R.T. -0.000 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

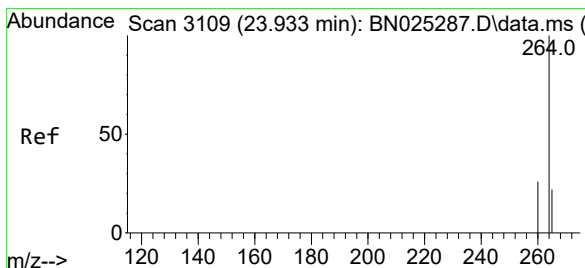
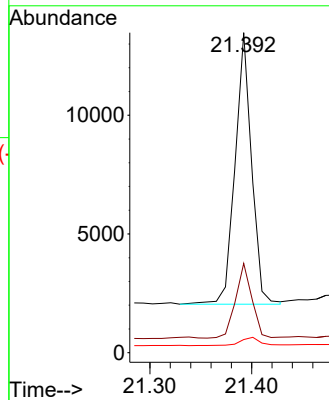
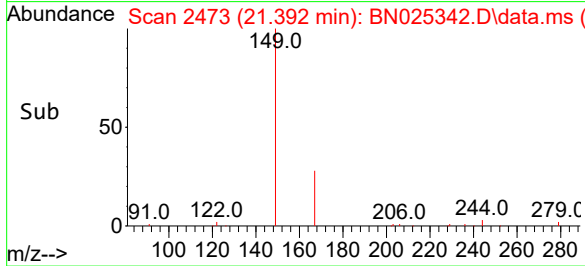
Instrument :
BNA_N
ClientSampleId :
ZONE-A-0-3-05022023DL



Tgt Ion:149 Resp: 1287
Ion Ratio Lower Upper
149 100
167 27.1 22.2 33.4
279 3.6 2.6 4.0

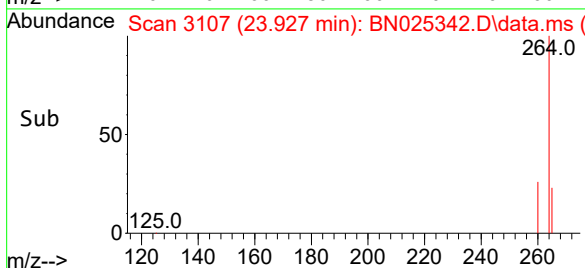
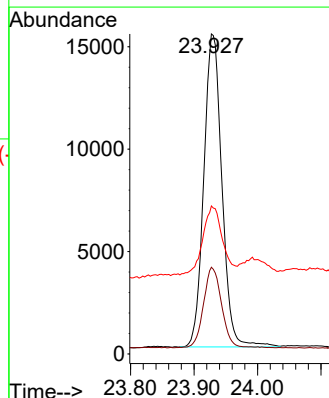
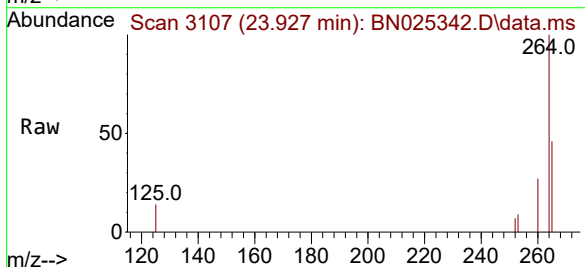
Manual Integrations
APPROVED

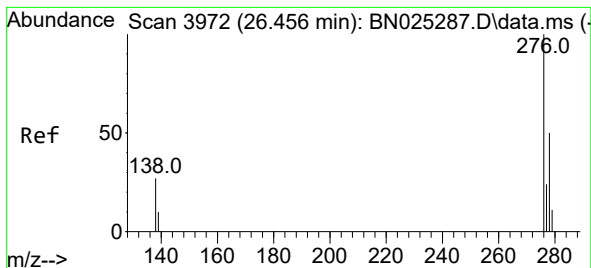
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.927 min Scan# 3107
Delta R.T. -0.003 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

Tgt Ion:264 Resp: 30317
Ion Ratio Lower Upper
264 100
260 27.1 21.5 32.3
265 46.2 46.2 69.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.306 ng

RT: 26.468 min Scan# 3976

Delta R.T. 0.020 min

Lab File: BN025342.D

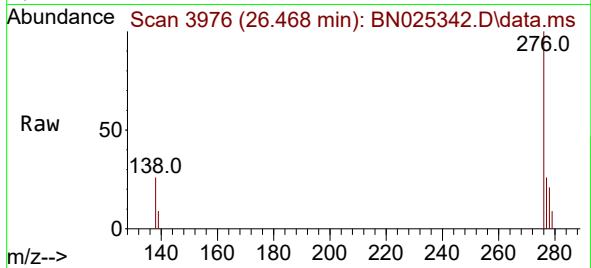
Acq: 08 May 2023 20:46

Instrument :

BNA_N

ClientSampleId :

ZONE-A-0-3-05022023DL



Tgt Ion:276 Resp: 37162

Ion Ratio Lower Upper

276 100

138 23.9 22.5 33.7

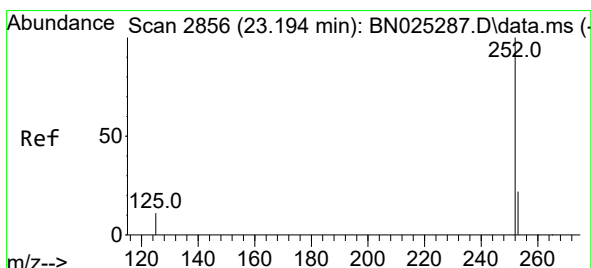
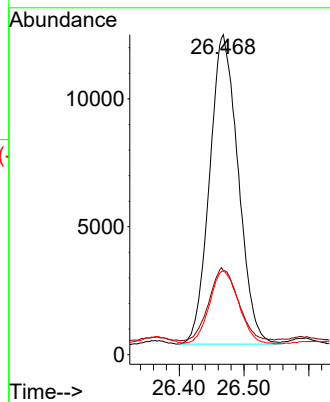
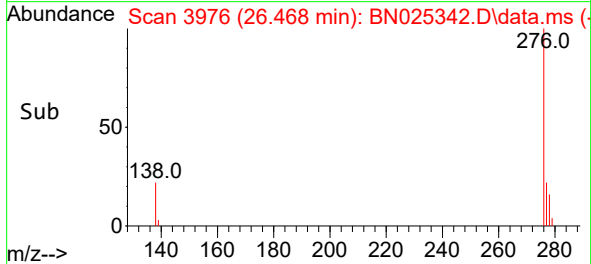
277 23.9 19.8 29.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#37

Benzo(b)fluoranthene

Concen: 1.001 ng

RT: 23.188 min Scan# 2854

Delta R.T. -0.000 min

Lab File: BN025342.D

Acq: 08 May 2023 20:46

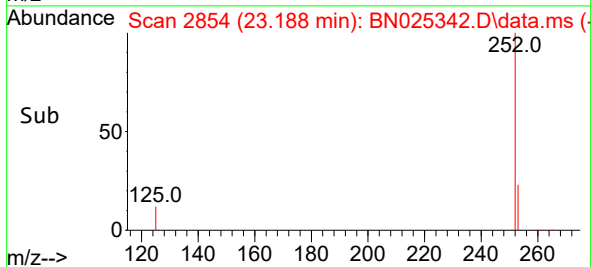
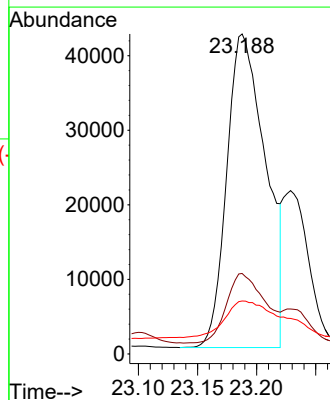
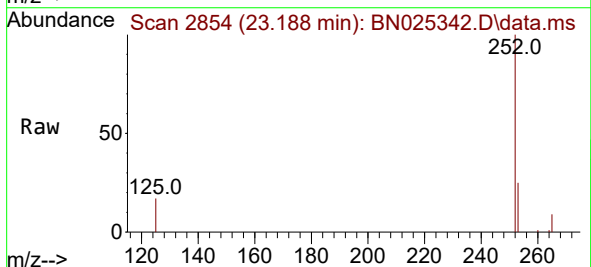
Tgt Ion:252 Resp: 96193

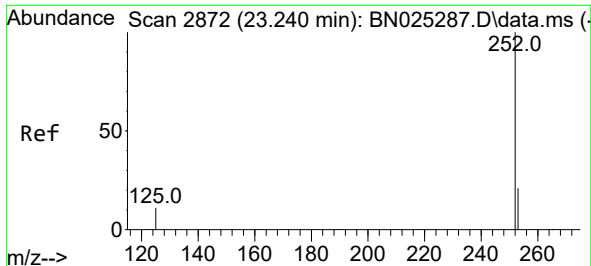
Ion Ratio Lower Upper

252 100

253 25.1 20.8 31.2

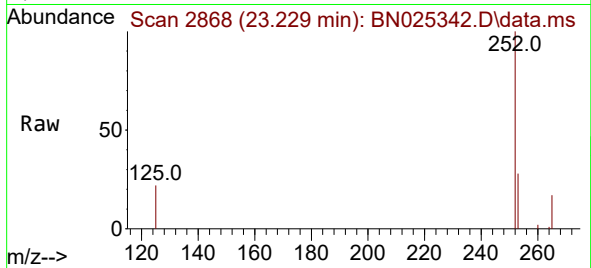
125 16.6 13.4 20.2





#38
Benzo(k)fluoranthene
Concen: 0.317 ng m
RT: 23.229 min Scan# 2868
Delta R.T. -0.009 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

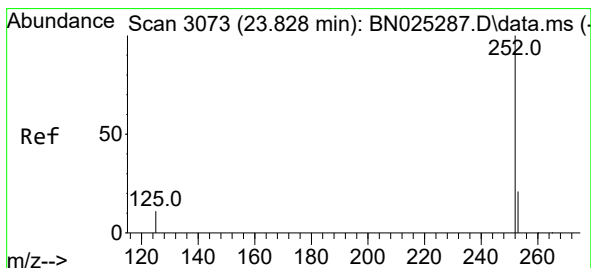
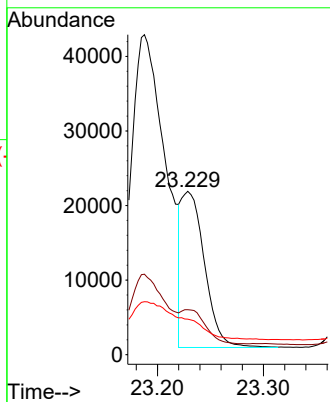
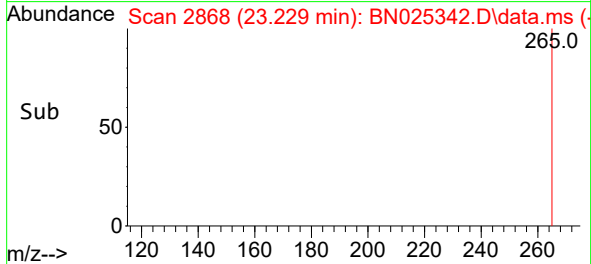
Instrument :
BNA_N
ClientSampleId :
ZONE-A-0-3-05022023DL



Tgt Ion:252 Resp: 31844
Ion Ratio Lower Upper
252 100
253 27.6 20.6 30.8
125 21.8 13.1 19.7

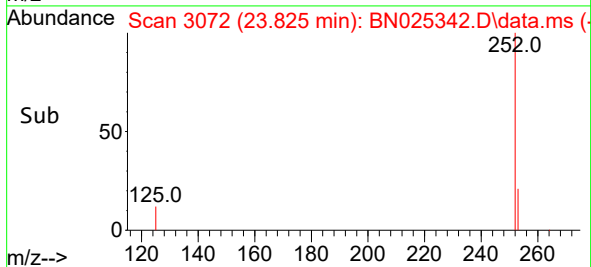
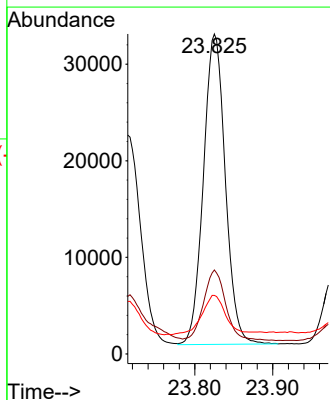
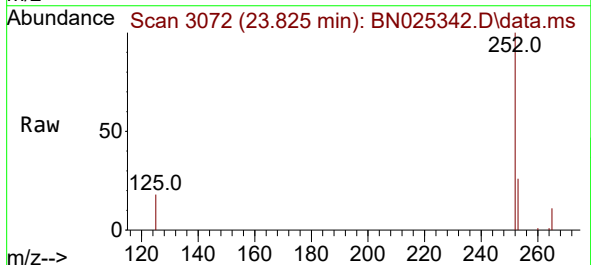
Manual Integrations
APPROVED

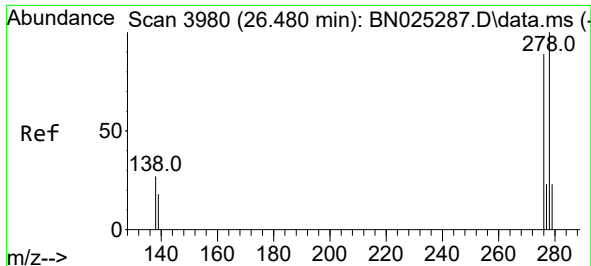
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#39
Benzo(a)pyrene
Concen: 0.637 ng
RT: 23.825 min Scan# 3072
Delta R.T. 0.003 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

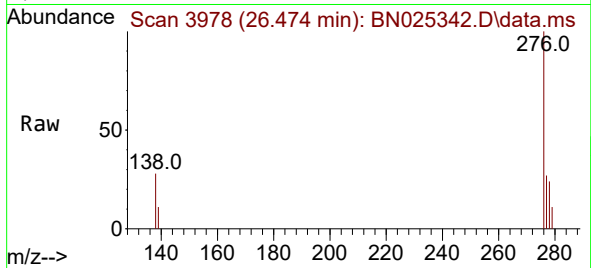
Tgt Ion:252 Resp: 62735
Ion Ratio Lower Upper
252 100
253 26.3 21.4 32.0
125 18.3 15.4 23.2





#40
Dibenzo(a,h)anthracene
Concen: 0.096 ng m
RT: 26.474 min Scan# 3980
Delta R.T. 0.009 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

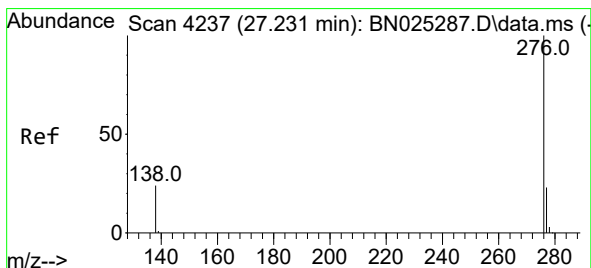
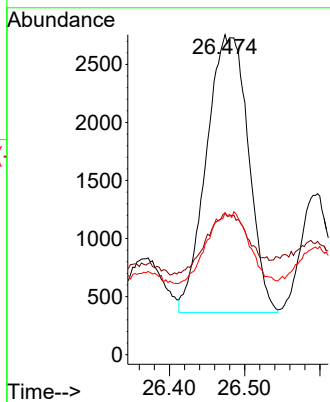
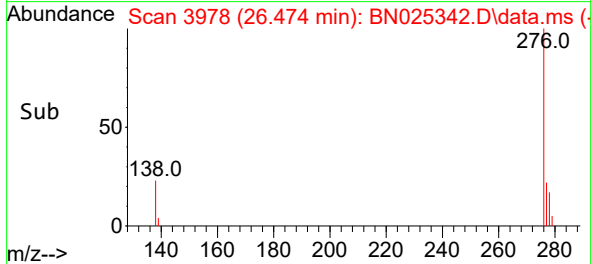
Instrument :
BNA_N
ClientSampleId :
ZONE-A-0-3-05022023DL



Tgt Ion:278 Resp: 9210
Ion Ratio Lower Upper
278 100
139 44.3 17.6 26.4
279 44.3 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: 0.356 ng
RT: 27.255 min Scan# 4245
Delta R.T. 0.026 min
Lab File: BN025342.D
Acq: 08 May 2023 20:46

Tgt Ion:276 Resp: 37514
Ion Ratio Lower Upper
276 100
277 26.1 20.1 30.1
138 27.6 21.0 31.6

