

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040523\
 Data File : BN024769.D
 Acq On : 05 Apr 2023 15:02
 Operator : CG/JU
 Sample : 01950-21DL 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/06/2023
 Supervised By : Jagrut Upadhyay 04/06/2023

Quant Time: Apr 05 16:22:15 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN040523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 05 11:04:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.947	152	8634	0.400	ng	-0.01
7) Naphthalene-d8	10.760	136	23595	0.400	ng	0.00
13) Acenaphthene-d10	14.587	164	13877	0.400	ng	-0.01
19) Phenanthrene-d10	17.335	188	31659	0.400	ng	0.00
29) Chrysene-d12	21.531	240	27453	0.400	ng	# 0.00
35) Perylene-d12	23.993	264	24996	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.499	112	1733	0.087	ng	0.00
5) Phenol-d6	7.109	99	2199	0.087	ng	0.00
8) Nitrobenzene-d5	9.116	82	1614	0.085	ng	0.00
11) 2-Methylnaphthalene-d10	12.351	152	2944	0.094	ng	0.00
14) 2,4,6-Tribromophenol	16.107	330	387m	0.062	ng	0.02
15) 2-Fluorobiphenyl	13.219	172	4708	0.089	ng	0.00
27) Fluoranthene-d10	19.372	212	6146	0.086	ng	0.00
31) Terphenyl-d14	19.966	244	6360	0.102	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.814	128	53621	0.883	ng	100
12) 2-Methylnaphthalene	12.423	142	17927	0.424	ng	99
16) Acenaphthylene	14.309	152	59744	1.024	ng	99
17) Acenaphthene	14.651	154	30768	0.780	ng	100
18) Fluorene	15.635	166	97932	1.808	ng	99
25) Phenanthrene	17.385	178	64863	0.706	ng	100
26) Anthracene	17.472	178	18445	0.230	ng	99
28) Fluoranthene	19.401	202	83641	0.802	ng	99
30) Pyrene	19.764	202	87534	0.897	ng	100
32) Benzo(a)anthracene	21.522	228	69869	0.753	ng	99
33) Chrysene	21.575	228	76525	0.787	ng	99
36) Indeno(1,2,3-cd)pyrene	26.548	276	69036	0.630	ng	99
37) Benzo(b)fluoranthene	23.239	252	19027	0.201	ng	98
38) Benzo(k)fluoranthene	23.288	252	56227	0.598	ng	97
39) Benzo(a)pyrene	23.882	252	55052	0.607	ng	# 91
40) Dibenzo(a,h)anthracene	26.572	278	44156	0.512	ng	99
41) Benzo(g,h,i)perylene	27.340	276	52712	0.564	ng	100

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

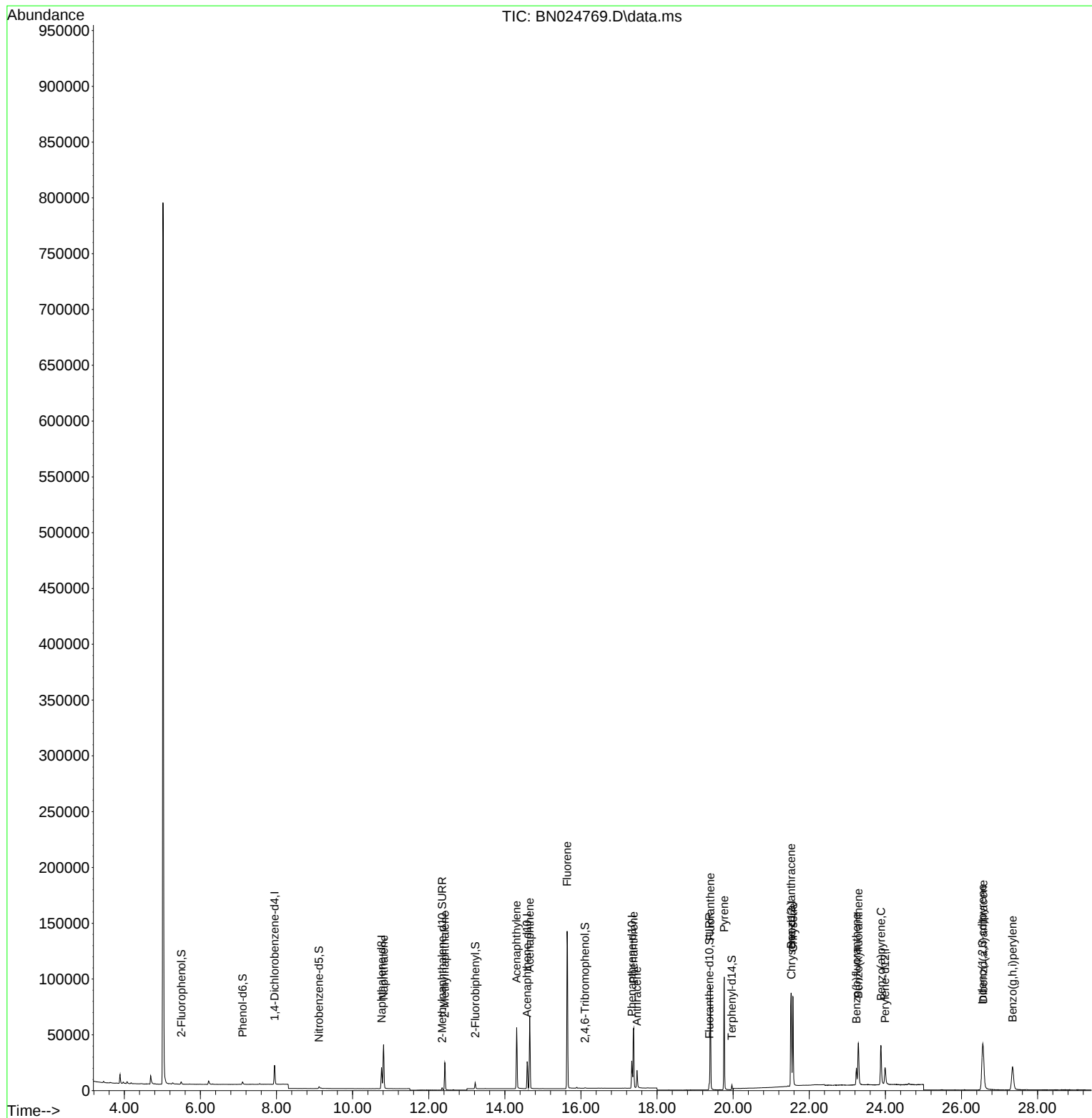
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040523\
Data File : BN024769.D
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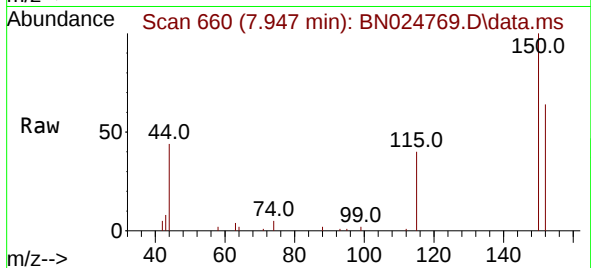
Quant Time: Apr 05 16:22:15 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN040523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 05 11:04:25 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.947 min Scan# 60
Delta R.T. -0.013 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

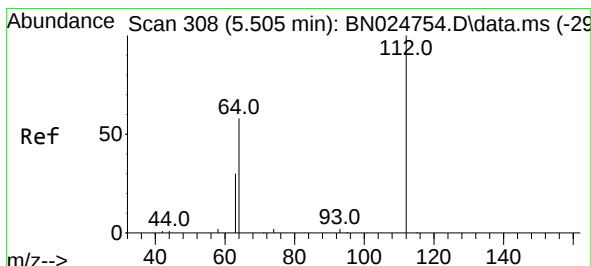
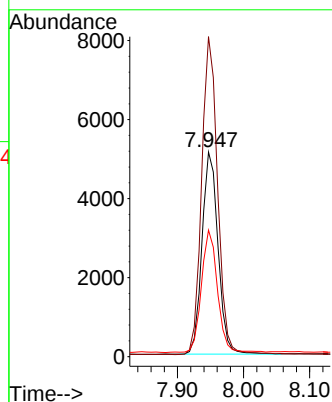
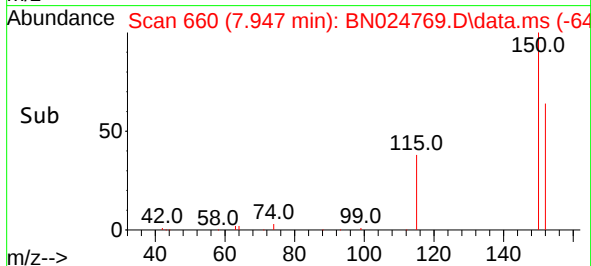
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:152 Resp: 8634
Ion Ratio Lower Upper
152 100
150 156.4 121.8 182.8
115 61.8 48.3 72.5

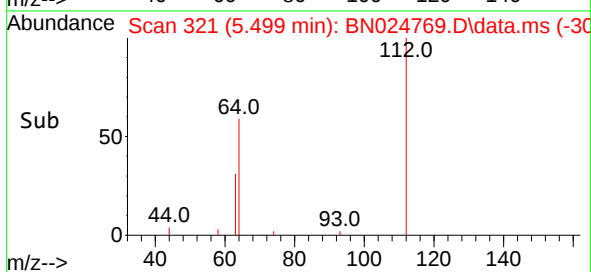
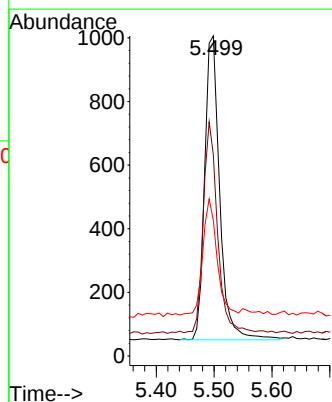
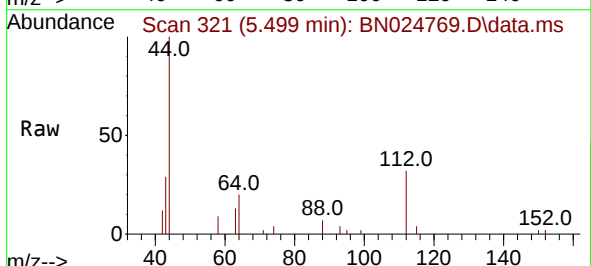
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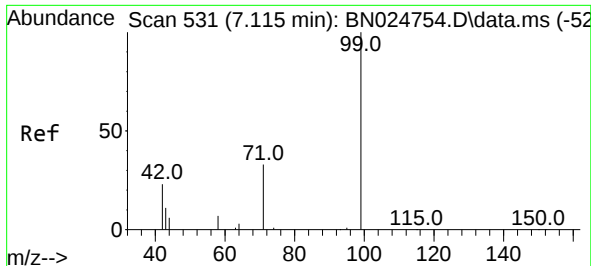
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#4
2-Fluorophenol
Concen: 0.087 ng
RT: 5.499 min Scan# 321
Delta R.T. -0.006 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

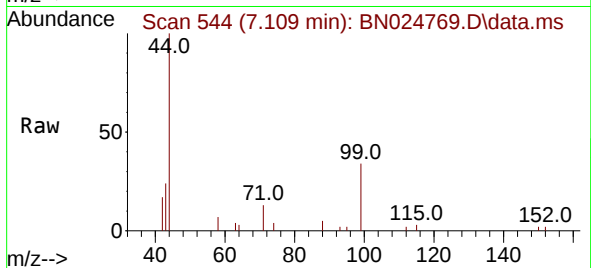
Tgt Ion:112 Resp: 1733
Ion Ratio Lower Upper
112 100
64 65.7 52.5 78.7
63 36.3 27.9 41.9





#5
Phenol-d6
Concen: 0.087 ng
RT: 7.109 min Scan# 54
Delta R.T. -0.006 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

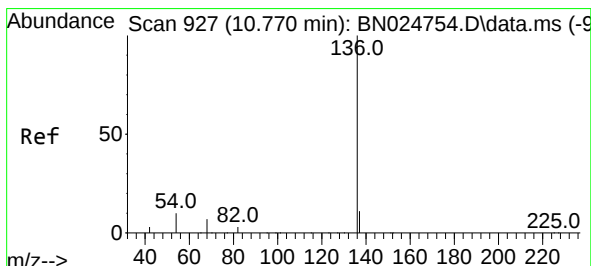
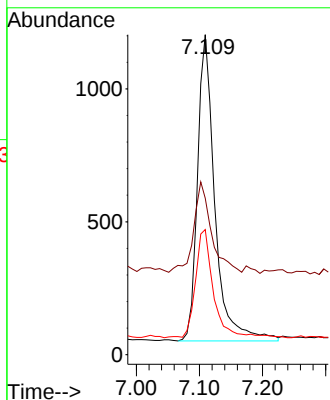
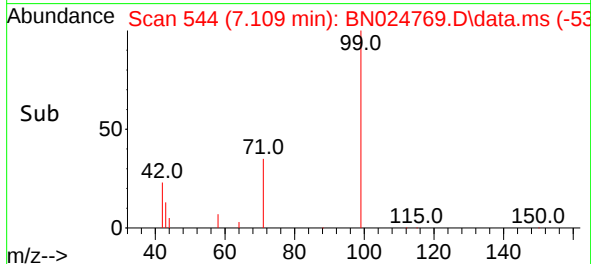
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



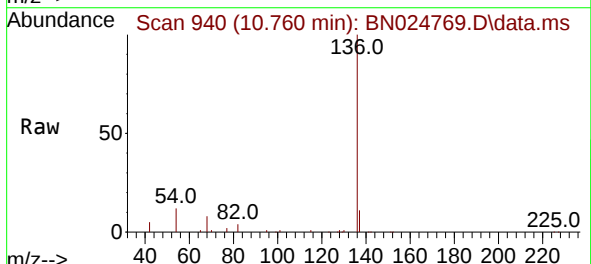
Tgt Ion: 99 Resp: 2199
Ion Ratio Lower Upper
99 100
42 30.2 22.8 34.2
71 36.7 28.2 42.2

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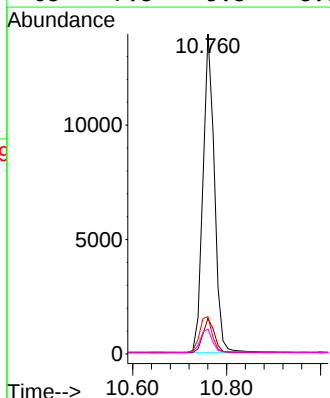
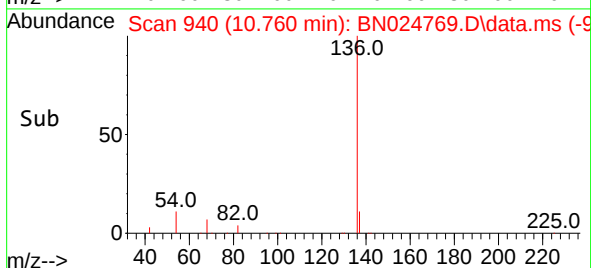
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023

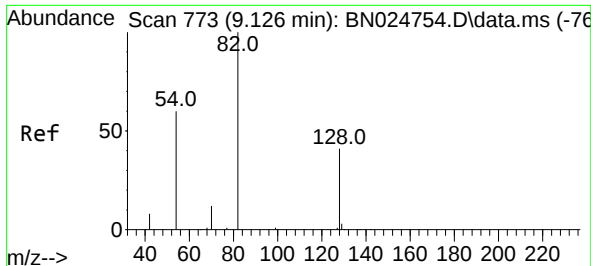


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.760 min Scan# 940
Delta R.T. -0.010 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02



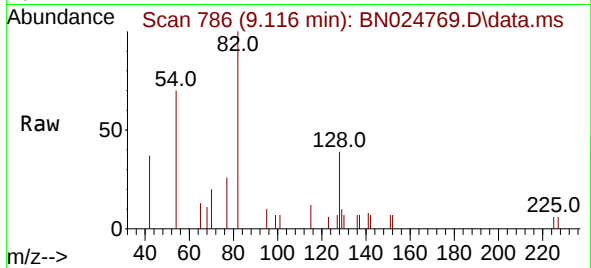
Tgt Ion:136 Resp: 23595
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 11.7 8.2 12.4
68 7.8 5.8 8.6





#8
Nitrobenzene-d5
Concen: 0.085 ng
RT: 9.116 min Scan# 773
Delta R.T. -0.010 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

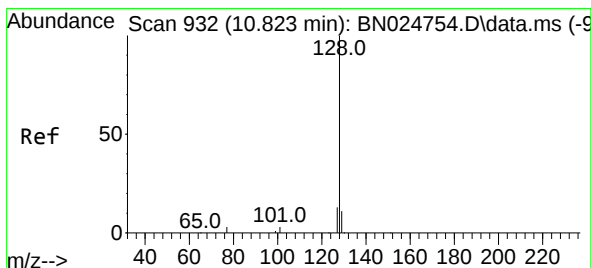
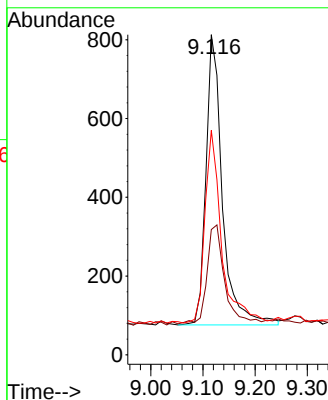
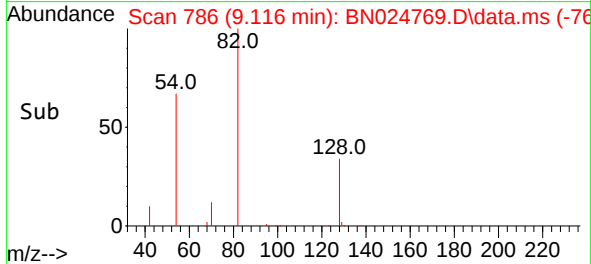
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion: 82 Resp: 1614
Ion Ratio Lower Upper
82 100
128 39.1 33.8 50.6
54 70.1 49.4 74.0

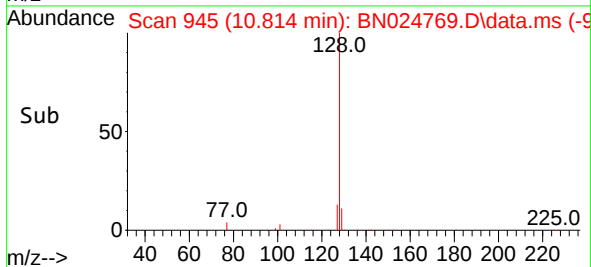
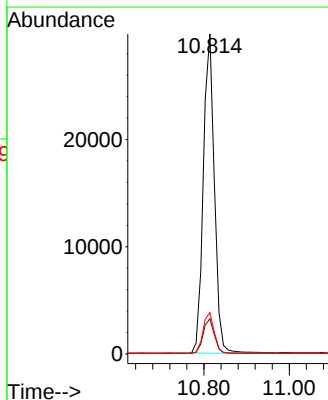
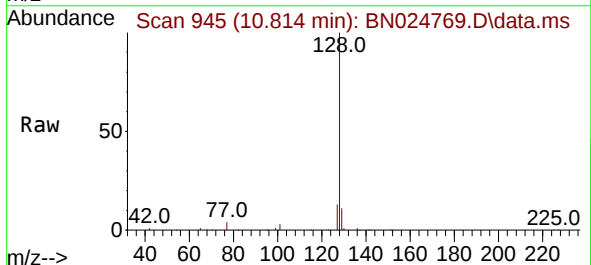
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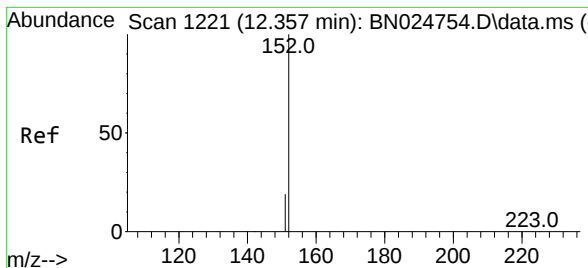
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#9
Naphthalene
Concen: 0.883 ng
RT: 10.814 min Scan# 945
Delta R.T. -0.010 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

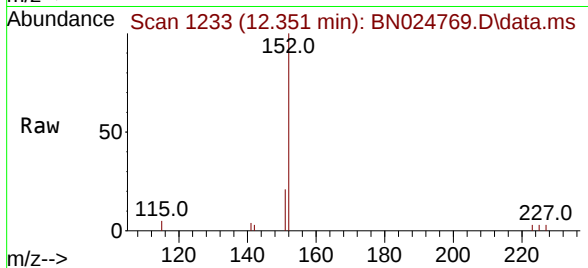
Tgt Ion:128 Resp: 53621
Ion Ratio Lower Upper
128 100
129 11.0 9.0 13.4
127 12.9 10.4 15.6





#11
2-Methylnaphthalene-d10
Concen: 0.094 ng
RT: 12.351 min Scan# 11
Delta R.T. -0.007 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

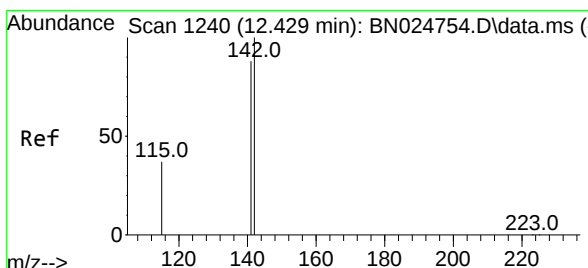
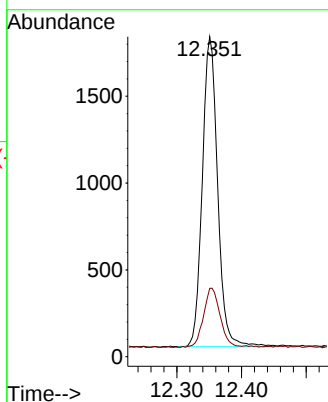
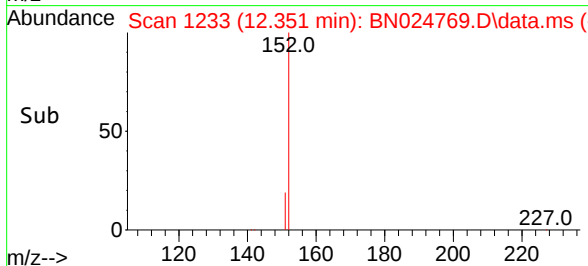
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



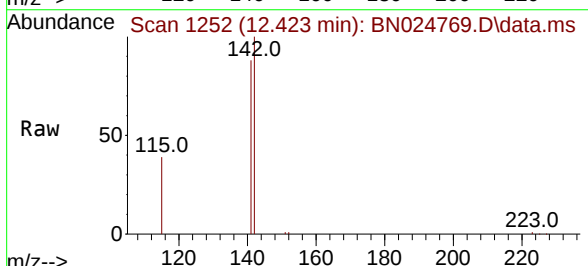
Tgt Ion:152 Resp: 2944
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0

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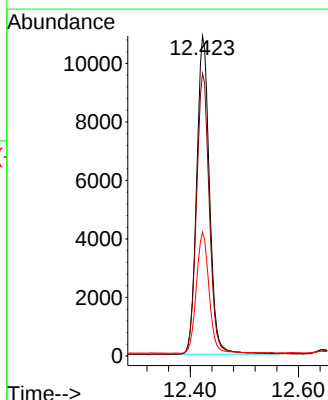
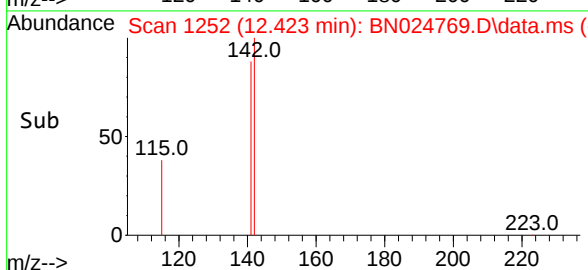
Reviewed By :Christian Giraldo 04/06/2023
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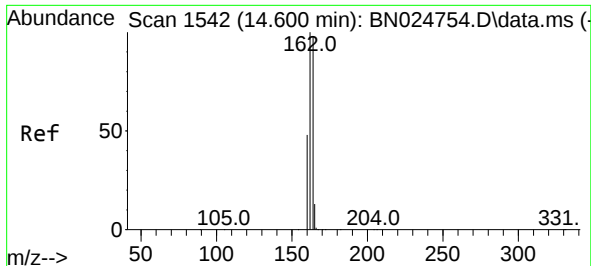


#12
2-Methylnaphthalene
Concen: 0.424 ng
RT: 12.423 min Scan# 1252
Delta R.T. -0.007 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02



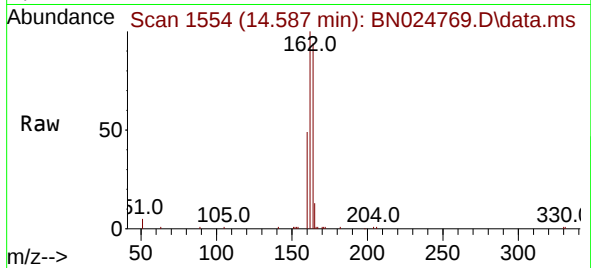
Tgt Ion:142 Resp: 17927
Ion Ratio Lower Upper
142 100
141 88.3 70.5 105.7
115 38.7 30.2 45.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.587 min Scan# 11
Delta R.T. -0.013 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

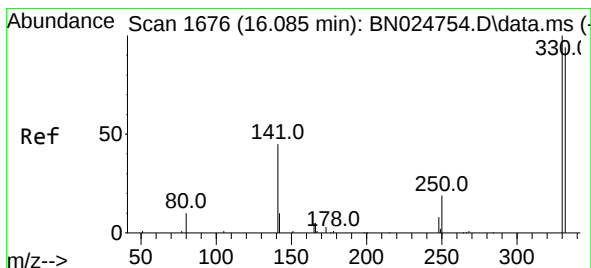
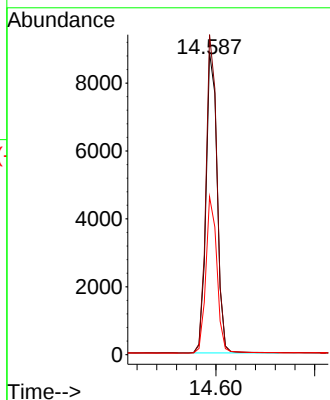
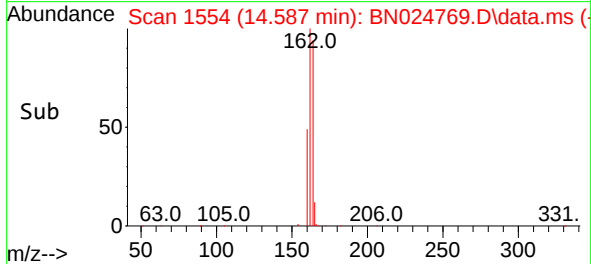
Instrument :
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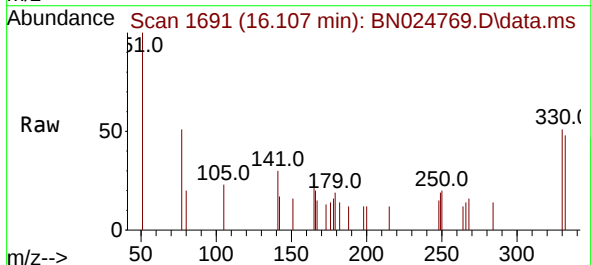
Tgt Ion:164 Resp: 1387
Ion Ratio Lower Upper
164 100
162 105.9 81.9 122.9
160 52.3 39.2 58.8

Manual Integrations
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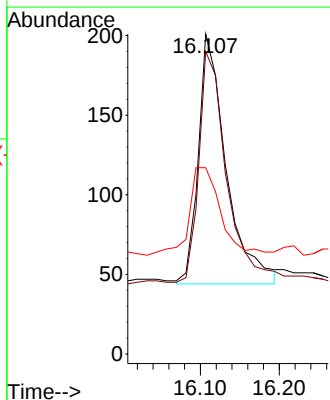
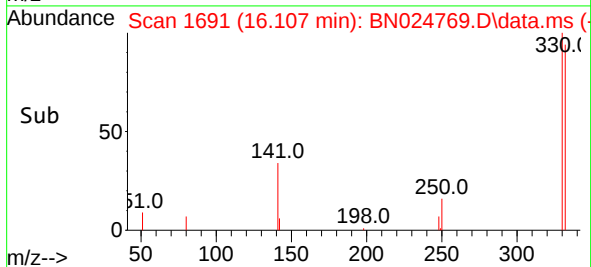
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023

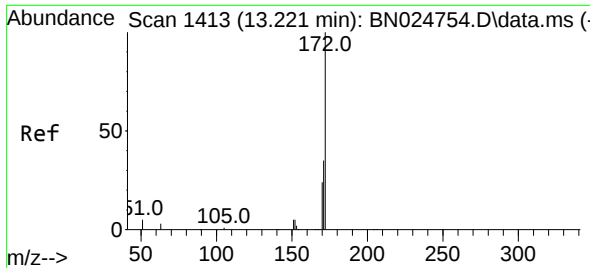


#14
2,4,6-Tribromophenol
Concen: 0.062 ng m
RT: 16.107 min Scan# 1691
Delta R.T. 0.022 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02



Tgt Ion:330 Resp: 387
Ion Ratio Lower Upper
330 100
332 87.9 77.9 116.9
141 38.0 31.0 46.6





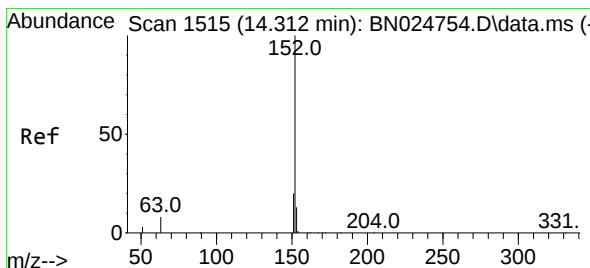
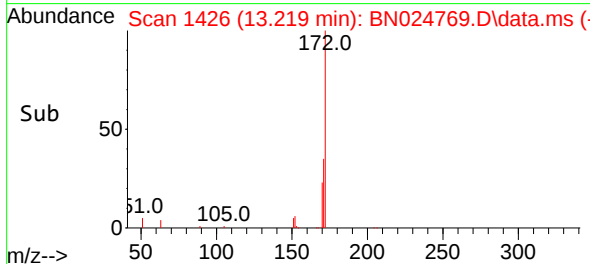
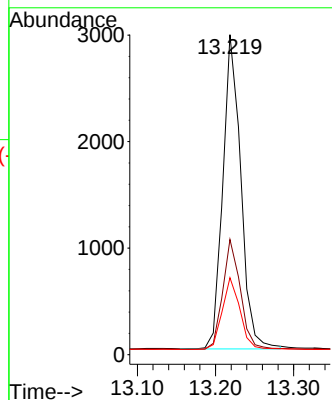
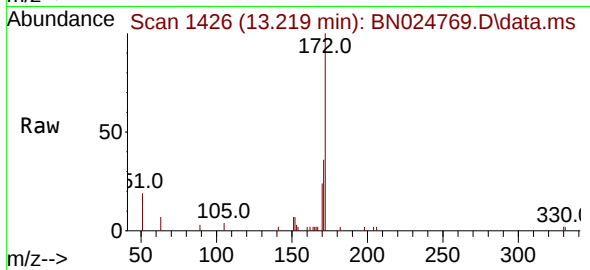
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2-Fluorobiphenyl
Concen: 0.089 ng
RT: 13.219 min Scan# 1413
Delta R.T. -0.003 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tgt Ion:172 Resp: 4708
Ion Ratio Lower Upper
172 100
171 36.0 28.2 42.2
170 24.1 19.2 28.8

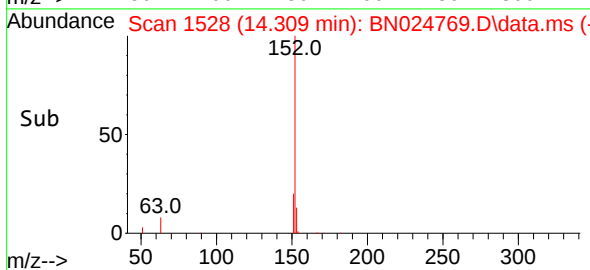
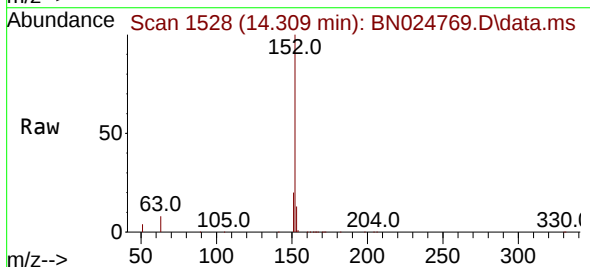
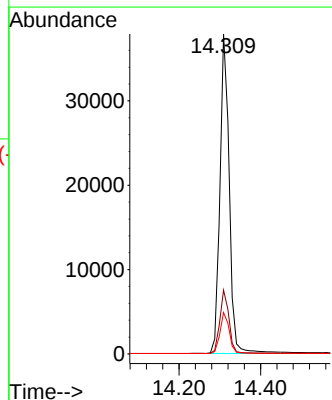
Manual Integrations
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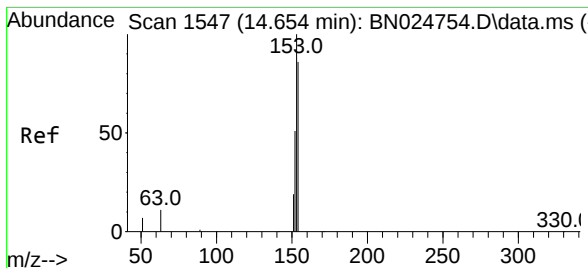
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#16
Acenaphthylene
Concen: 1.024 ng
RT: 14.309 min Scan# 1528
Delta R.T. -0.003 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

Tgt Ion:152 Resp: 59744
Ion Ratio Lower Upper
152 100
151 19.7 15.3 22.9
153 13.0 10.3 15.5





#17

Acenaphthene

Concen: 0.780 ng

RT: 14.651 min Scan# 1547

Delta R.T. -0.003 min

Lab File: BN024769.D

Acq: 05 Apr 2023 15:02

Instrument :

BNA_N

ClientSampleId :

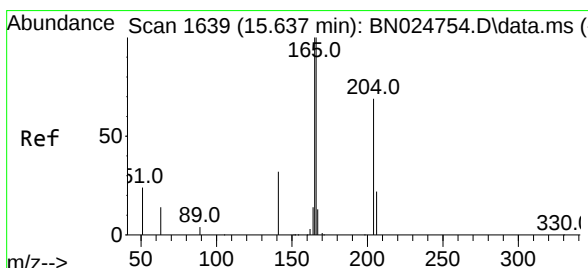
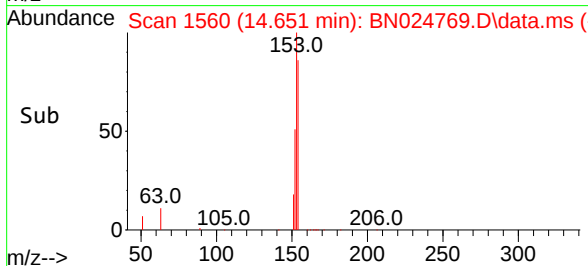
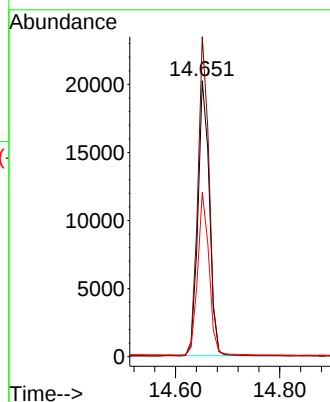
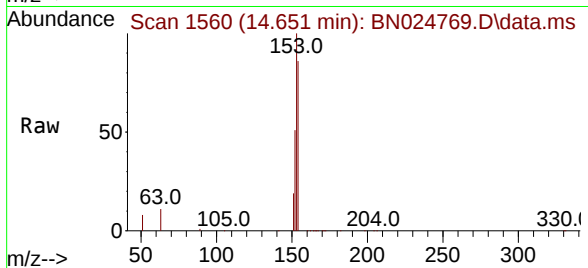
RR-PAH-WPDL

Tgt Ion:154	Resp:	3076
Ion Ratio	Lower	Upper
154	100	
153	115.1	92.2 138.4
152	58.7	47.1 70.7

Manual Integrations

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#18

Fluorene

Concen: 1.808 ng

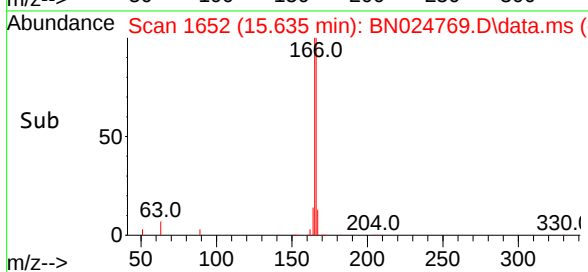
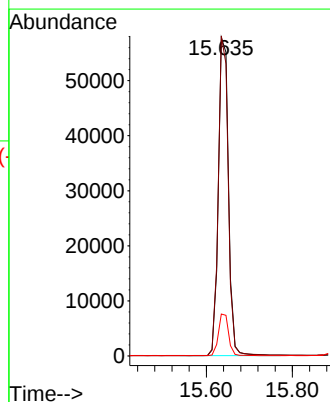
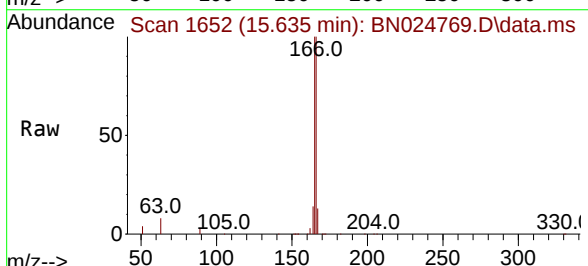
RT: 15.635 min Scan# 1652

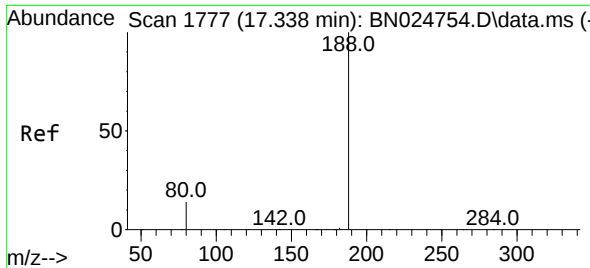
Delta R.T. -0.003 min

Lab File: BN024769.D

Acq: 05 Apr 2023 15:02

Tgt Ion:166	Resp:	97932
Ion Ratio	Lower	Upper
166	100	
165	99.0	78.3 117.5
167	13.3	10.4 15.6





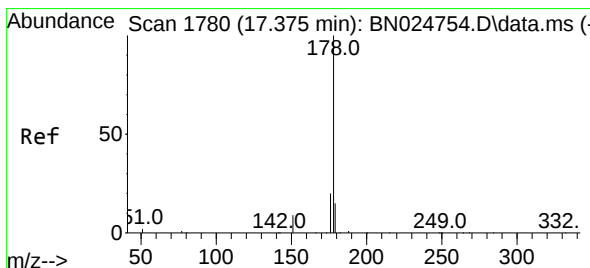
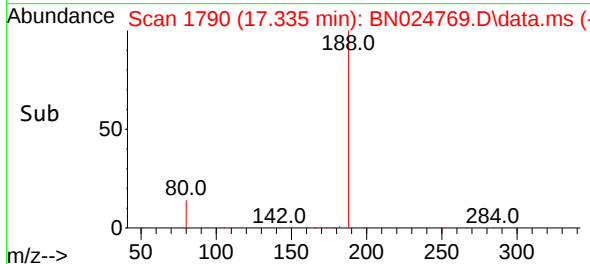
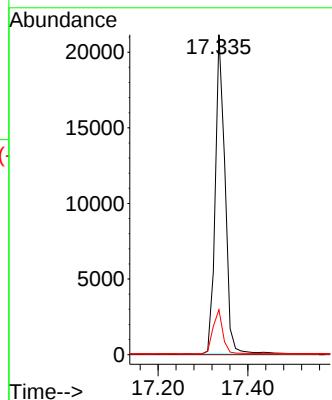
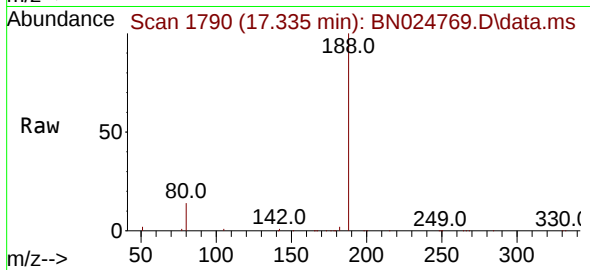
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.335 min Scan# 1794
Delta R.T. -0.003 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tgt Ion:188 Resp: 31659
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.0 11.3 16.9

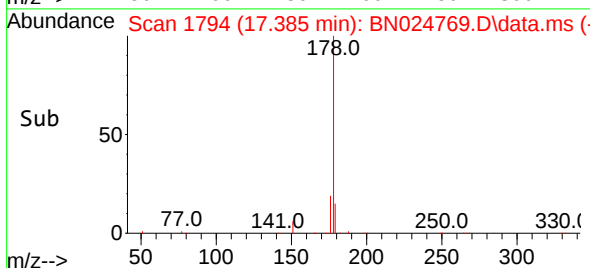
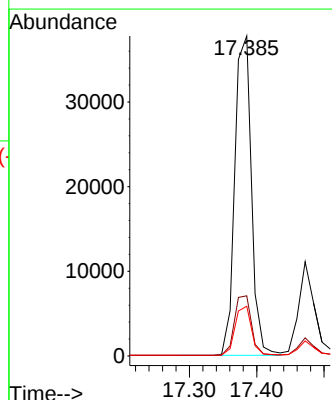
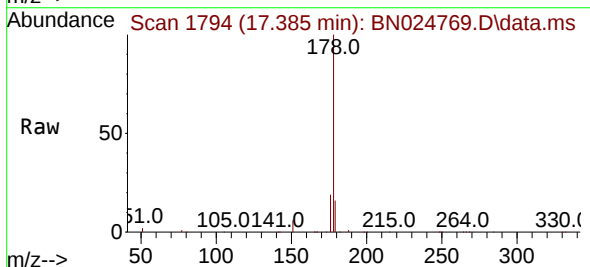
Manual Integrations
APPROVED

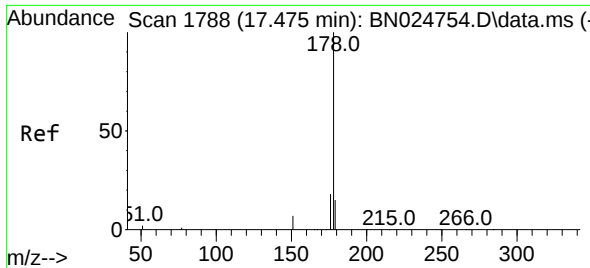
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#25
Phenanthrene
Concen: 0.706 ng
RT: 17.385 min Scan# 1794
Delta R.T. 0.010 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

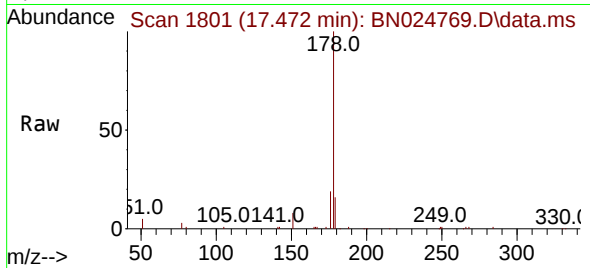
Tgt Ion:178 Resp: 64863
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.2 12.2 18.2





#26
 Anthracene
 Concen: 0.230 ng
 RT: 17.472 min Scan# 1801
 Delta R.T. -0.003 min
 Lab File: BN024769.D
 Acq: 05 Apr 2023 15:02

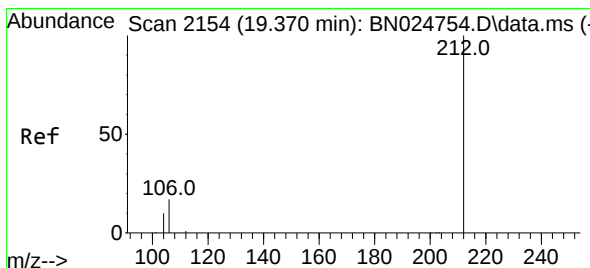
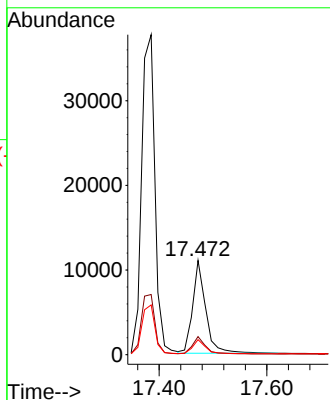
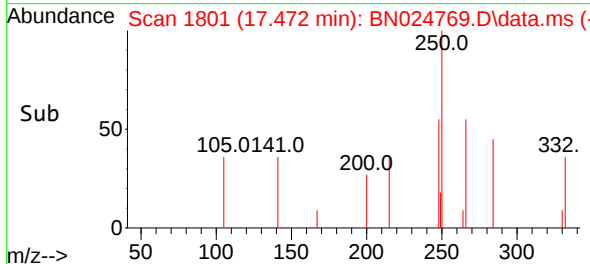
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL



Tgt Ion:178 Resp: 1844
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.9 22.3
 179 15.0 12.4 18.6

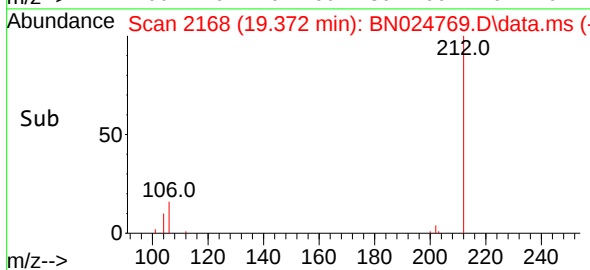
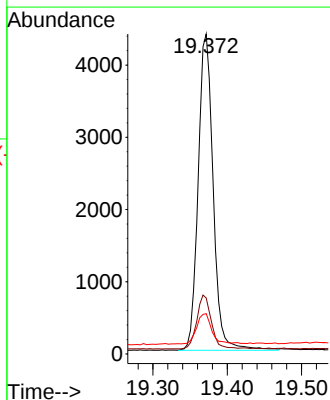
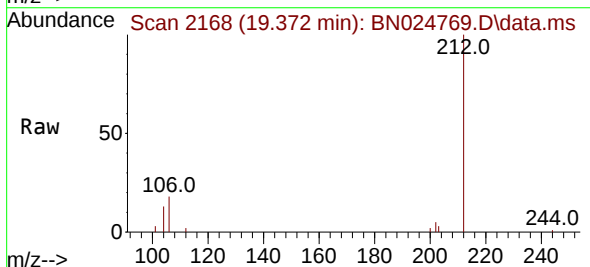
Manual Integrations
 APPROVED

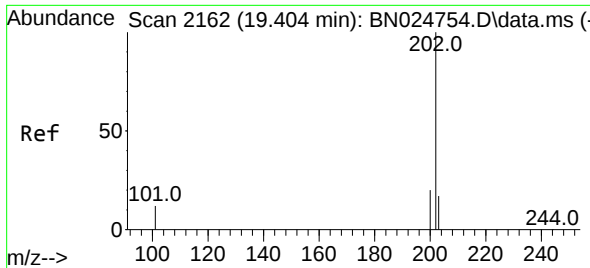
Reviewed By :Christian Giraldo 04/06/2023
 Supervised By :Jagrut Upadhyay 04/06/2023



#27
 Fluoranthene-d10
 Concen: 0.086 ng
 RT: 19.372 min Scan# 2168
 Delta R.T. 0.001 min
 Lab File: BN024769.D
 Acq: 05 Apr 2023 15:02

Tgt Ion:212 Resp: 6146
 Ion Ratio Lower Upper
 212 100
 106 16.8 13.2 19.8
 104 9.4 7.6 11.4





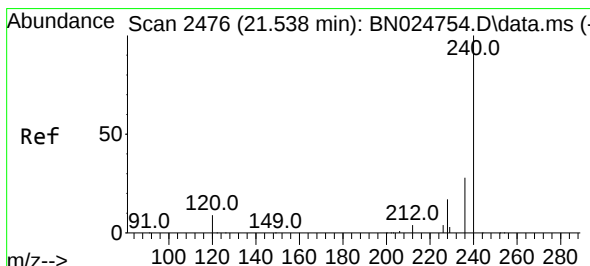
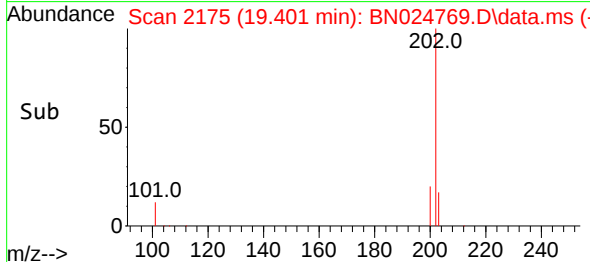
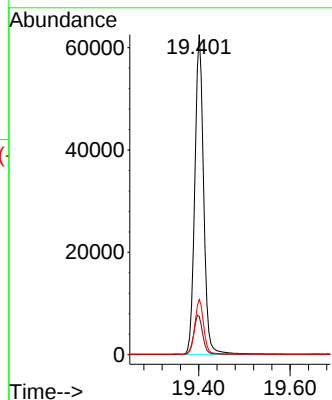
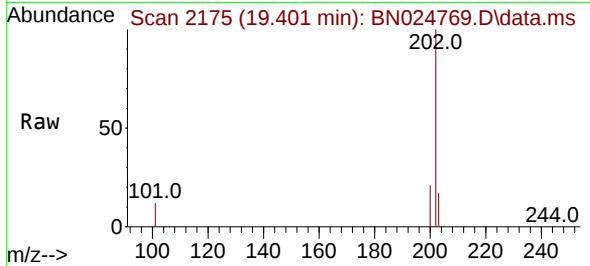
#28
Fluoranthene
Concen: 0.802 ng
RT: 19.401 min Scan# 2162
Delta R.T. -0.003 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tgt Ion:202 Resp: 8364
Ion Ratio Lower Upper
202 100
101 12.4 10.2 15.4
203 17.1 13.4 20.2

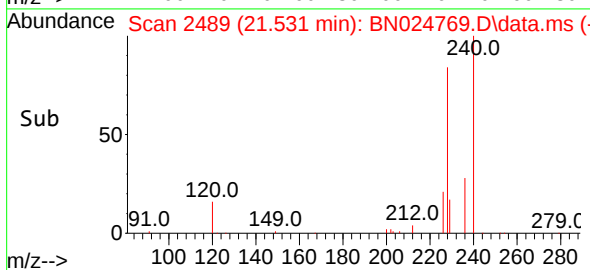
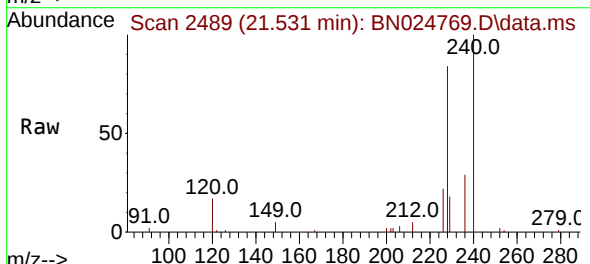
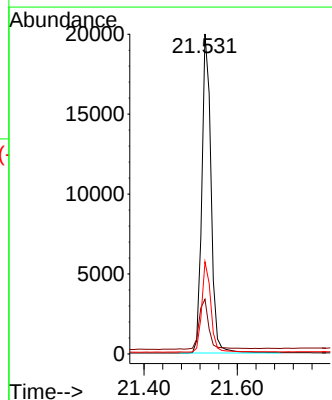
Manual Integrations
APPROVED

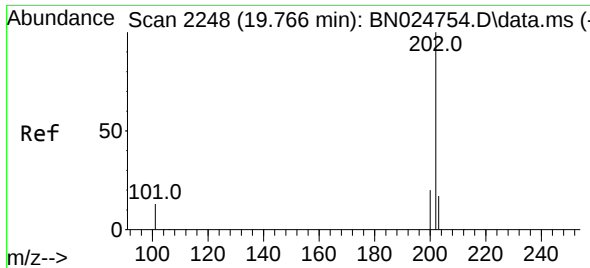
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.531 min Scan# 2489
Delta R.T. -0.008 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

Tgt Ion:240 Resp: 27453
Ion Ratio Lower Upper
240 100
120 17.1 8.8 13.2#
236 28.8 22.6 34.0





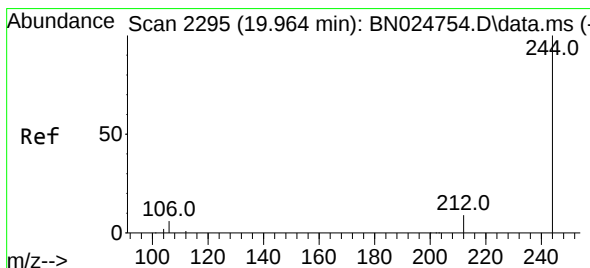
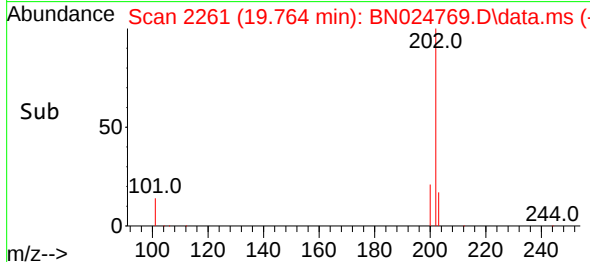
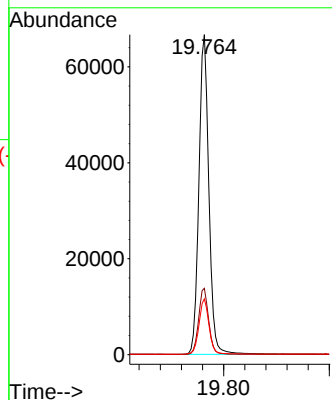
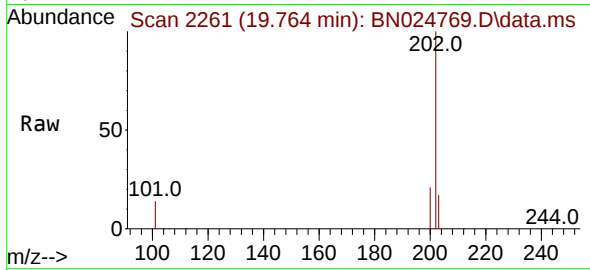
#30
Pyrene
Concen: 0.897 ng
RT: 19.764 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tgt Ion:202 Resp: 87534
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.4 14.2 21.4

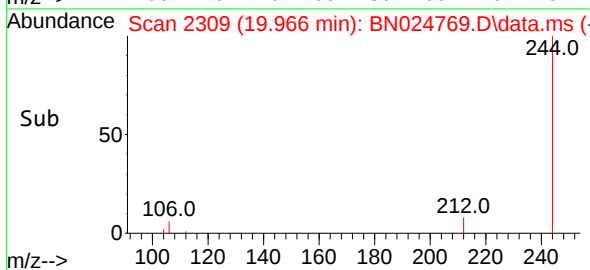
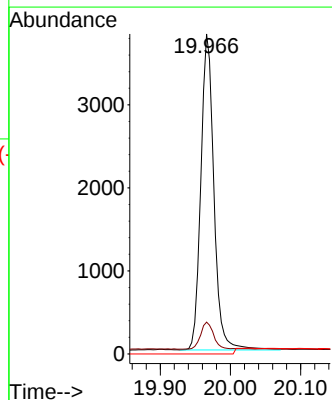
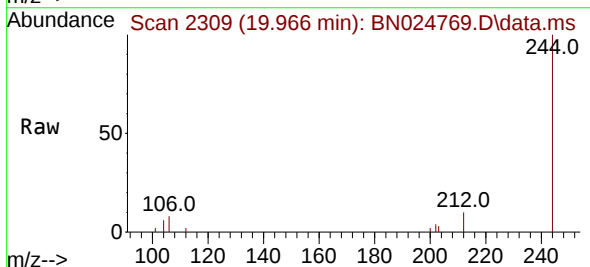
Manual Integrations
APPROVED

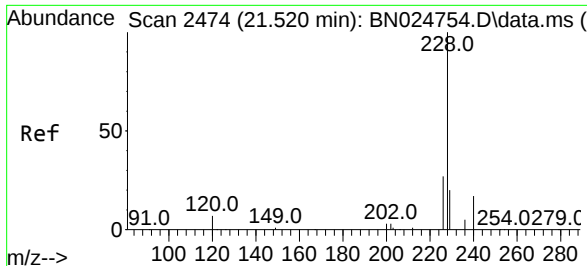
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#31
Terphenyl-d14
Concen: 0.102 ng
RT: 19.966 min Scan# 2309
Delta R.T. 0.001 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

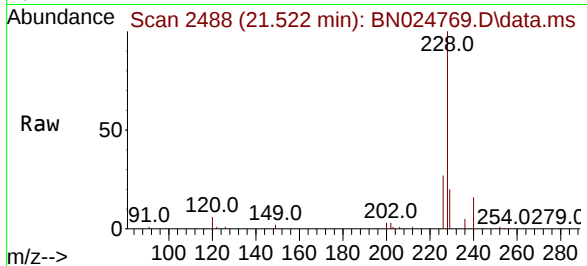
Tgt Ion:244 Resp: 6360
Ion Ratio Lower Upper
244 100
212 10.0 7.4 11.0
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 0.753 ng
RT: 21.522 min Scan# 2488
Delta R.T. 0.001 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

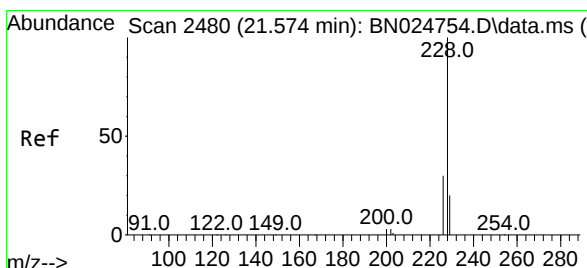
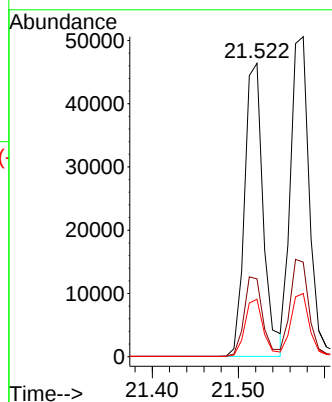
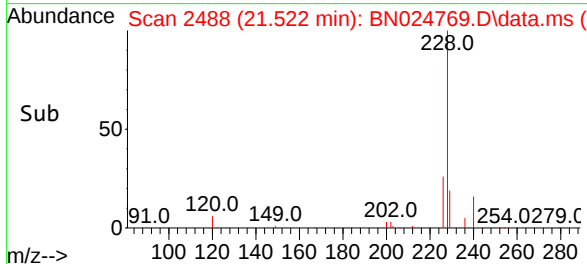
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



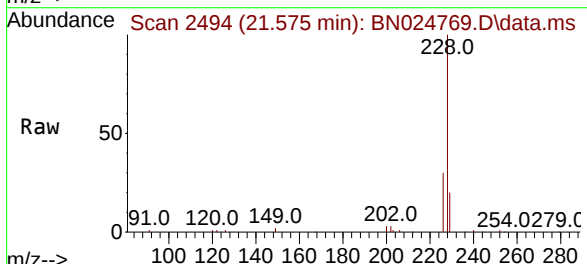
Tgt Ion:228 Resp: 69869
Ion Ratio Lower Upper
228 100
226 26.5 21.5 32.3
229 19.6 16.0 24.0

Manual Integrations
APPROVED

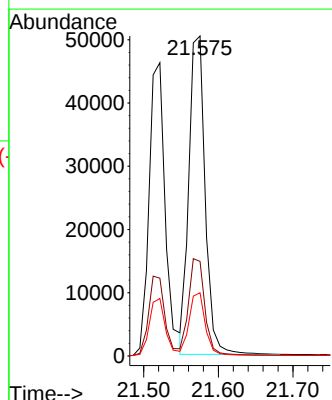
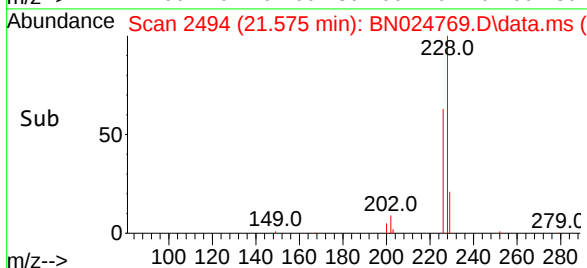
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023

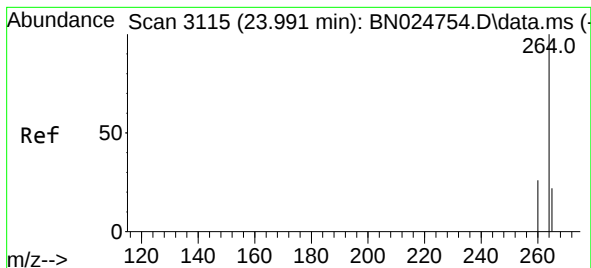


#33
Chrysene
Concen: 0.787 ng
RT: 21.575 min Scan# 2494
Delta R.T. 0.001 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02



Tgt Ion:228 Resp: 76525
Ion Ratio Lower Upper
228 100
226 29.5 23.9 35.9
229 19.7 16.0 24.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.993 min Scan# 3115

Delta R.T. 0.001 min

Lab File: BN024769.D

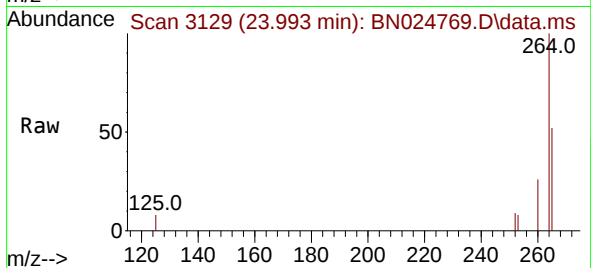
Acq: 05 Apr 2023 15:02

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL



Tgt Ion:264 Resp: 24990

Ion Ratio Lower Upper

264 100

260 25.9 20.8 31.2

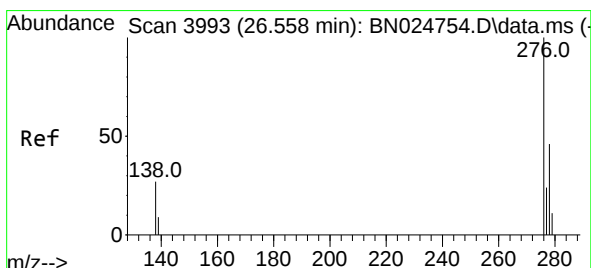
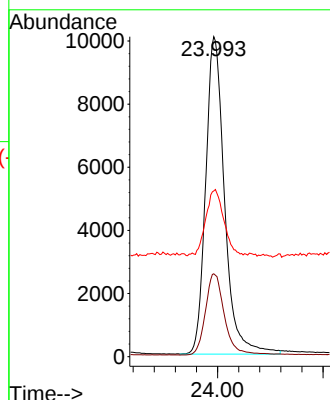
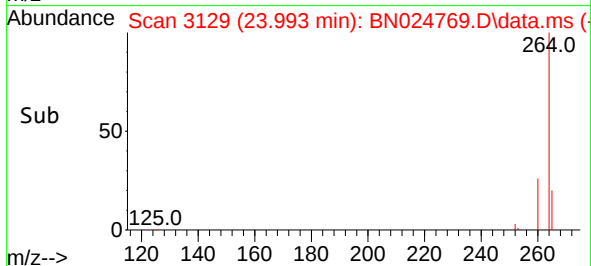
265 51.8 46.5 69.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/06/2023

Supervised By :Jagrut Upadhyay 04/06/2023



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.630 ng

RT: 26.548 min Scan# 4003

Delta R.T. -0.010 min

Lab File: BN024769.D

Acq: 05 Apr 2023 15:02

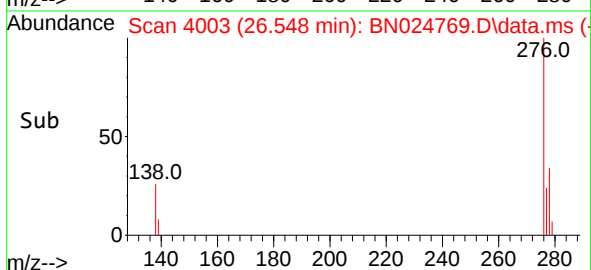
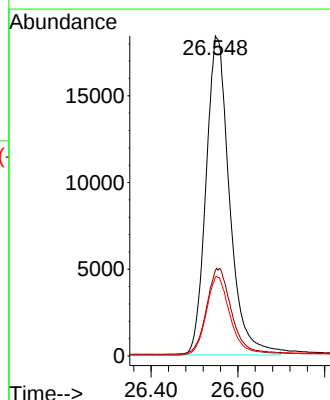
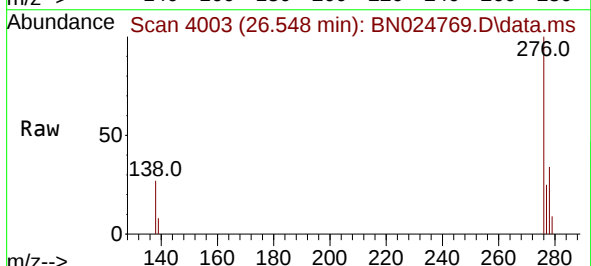
Tgt Ion:276 Resp: 69036

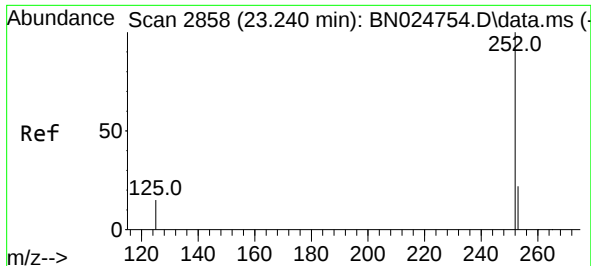
Ion Ratio Lower Upper

276 100

138 28.1 23.4 35.0

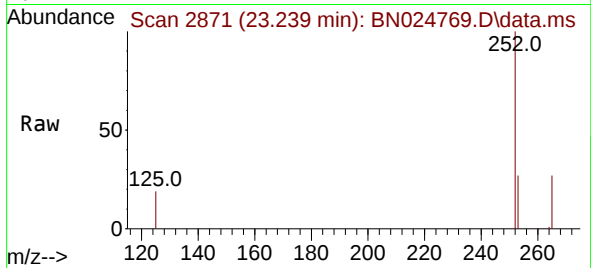
277 24.7 19.8 29.8





#37
Benzo(b)fluoranthene
Concen: 0.201 ng
RT: 23.239 min Scan# 2871
Delta R.T. -0.002 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02

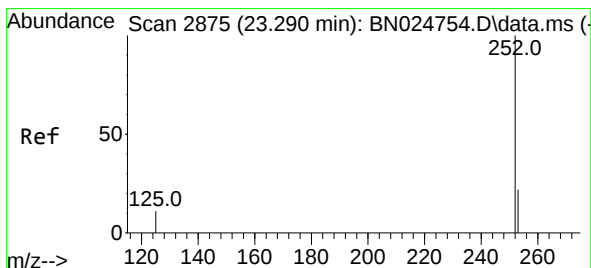
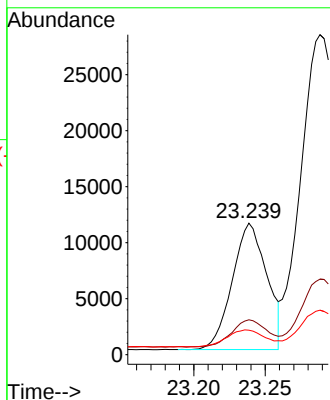
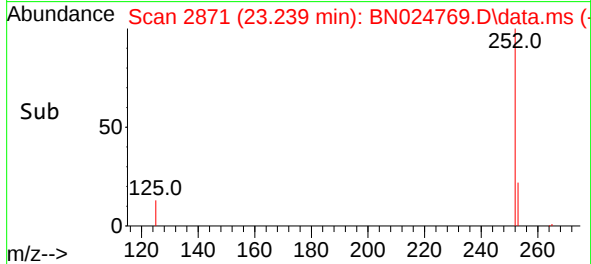
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



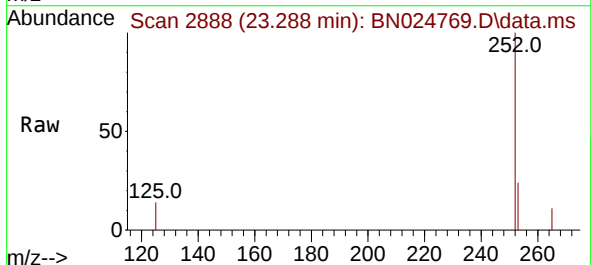
Tgt Ion:252 Resp: 1902
Ion Ratio Lower Upper
252 100
253 26.6 20.0 30.0
125 18.6 14.6 21.8

Manual Integrations
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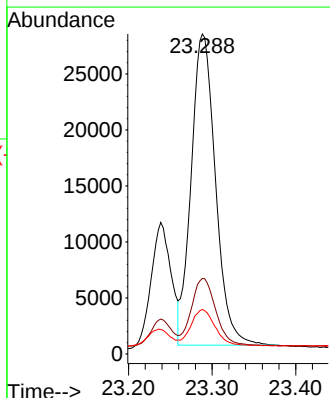
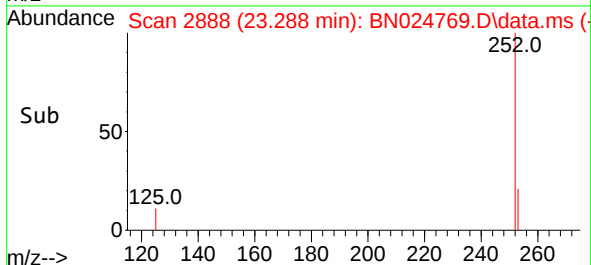
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023

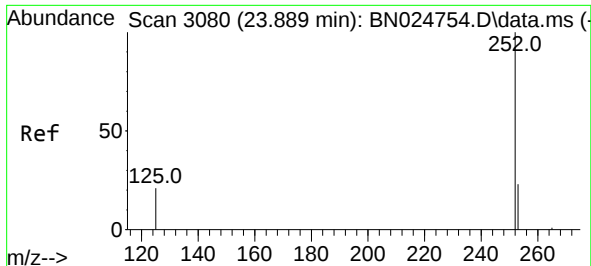


#38
Benzo(k)fluoranthene
Concen: 0.598 ng
RT: 23.288 min Scan# 2888
Delta R.T. -0.001 min
Lab File: BN024769.D
Acq: 05 Apr 2023 15:02



Tgt Ion:252 Resp: 56227
Ion Ratio Lower Upper
252 100
253 23.6 20.0 30.0
125 13.9 11.9 17.9





#39

Benzo(a)pyrene

Concen: 0.607 ng

RT: 23.882 min Scan# 3080

Delta R.T. -0.007 min

Lab File: BN024769.D

Acq: 05 Apr 2023 15:02

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

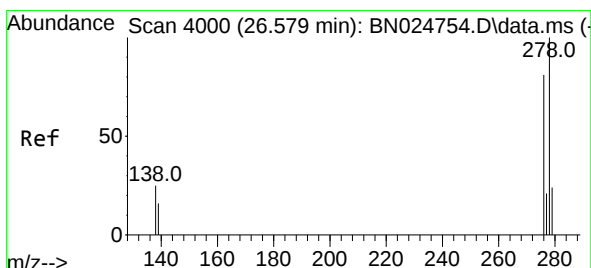
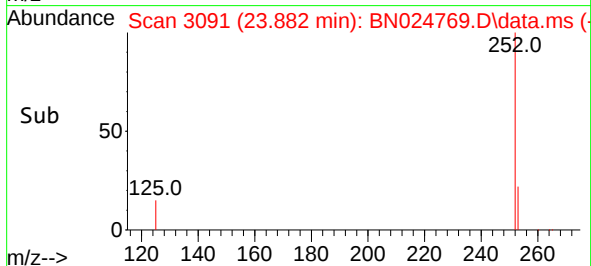
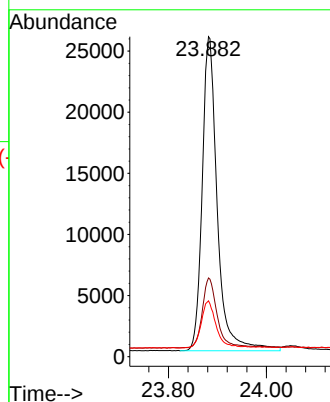
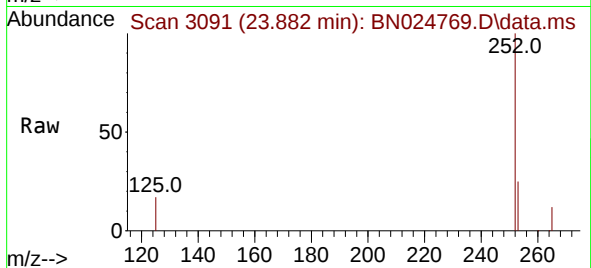
Tgt Ion:	252	Resp:	5505
Ion Ratio	Lower	Upper	
252	100		
253	24.6	21.0	31.6
125	17.4	20.2	30.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/06/2023

Supervised By :Jagrut Upadhyay 04/06/2023



#40

Dibenzo(a,h)anthracene

Concen: 0.512 ng

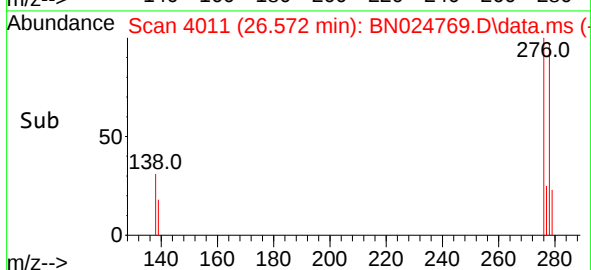
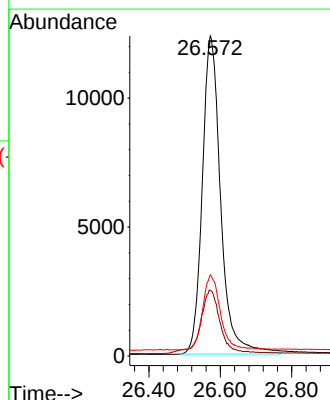
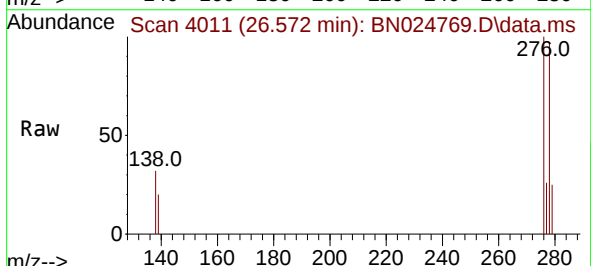
RT: 26.572 min Scan# 4011

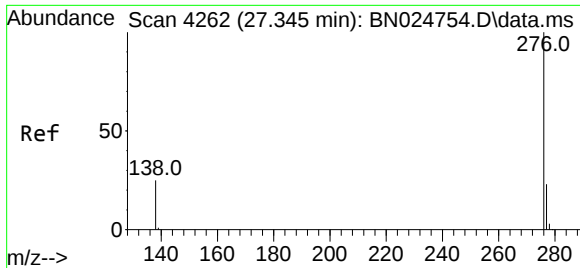
Delta R.T. -0.007 min

Lab File: BN024769.D

Acq: 05 Apr 2023 15:02

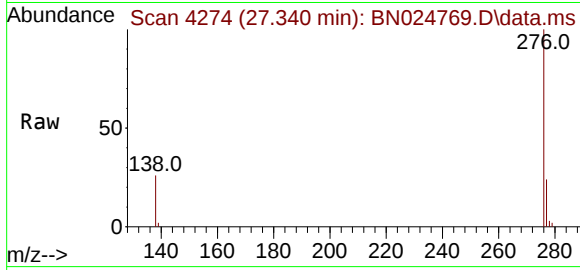
Tgt Ion:	278	Resp:	44156
Ion Ratio	Lower	Upper	
278	100		
139	20.5	17.1	25.7
279	25.3	20.7	31.1





#41
 Benzo(g,h,i)perylene
 Concen: 0.564 ng
 RT: 27.340 min Scan# 41
 Delta R.T. -0.004 min
 Lab File: BN024769.D
 Acq: 05 Apr 2023 15:02

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL



Tgt Ion: 276 Resp: 5271
 Ion Ratio Lower Upper
 276 100
 277 24.1 19.2 28.8
 138 25.7 20.9 31.3

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/06/2023
 Supervised By : Jagrut Upadhyay 04/06/2023

