

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050923\
 Data File : BN025365.D
 Acq On : 09 May 2023 13:53
 Operator : CG/JU
 Sample : 02588-03DL 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-6-9-05012023DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/10/2023
 Supervised By : Jagrut Upadhyay 05/10/2023

Quant Time: May 10 03:58:25 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 09 10:18:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.904	152	7065	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	21392	0.400	ng	0.01
13) Acenaphthene-d10	14.544	164	14292	0.400	ng	0.00
19) Phenanthrene-d10	17.298	188	32445	0.400	ng	0.00
29) Chrysene-d12	21.491	240	27840	0.400	ng	0.00
35) Perylene-d12	23.930	264	26595	0.400	ng	# 0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.463	112	1034	0.060	ng	0.00
5) Phenol-d6	7.095	99	1078	0.050	ng	0.02
8) Nitrobenzene-d5	9.106	82	707	0.040	ng	0.03
11) 2-Methylnaphthalene-d10	12.313	152	1809	0.062	ng	0.01
14) 2,4,6-Tribromophenol	16.045	330	438	0.060	ng	0.00
15) 2-Fluorobiphenyl	13.176	172	2588	0.053	ng	0.00
27) Fluoranthene-d10	19.325	212	4194	0.052	ng	0.00
31) Terphenyl-d14	19.920	244	3157	0.056	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.760	128	4703	0.086	ng	# 93
12) 2-Methylnaphthalene	12.385	142	2018	0.052	ng	# 92
16) Acenaphthylene	14.266	152	4635	0.072	ng	99
17) Acenaphthene	14.608	154	6515	0.164	ng	98
18) Fluorene	15.592	166	5979	0.110	ng	# 99
25) Phenanthrene	17.336	178	81970	0.913	ng	100
26) Anthracene	17.423	178	19583	0.233	ng	98
28) Fluoranthene	19.355	202	155470	1.386	ng	99
30) Pyrene	19.722	202	135928	1.428	ng	# 94
32) Benzo(a)anthracene	21.473	228	68583	0.729	ng	99
33) Chrysene	21.526	228	66372	0.709	ng	98
34) Bis(2-ethylhexyl)phtha...	21.383	149	8773	0.119	ng	98
36) Indeno(1,2,3-cd)pyrene	26.459	276	30176	0.283	ng	95
37) Benzo(b)fluoranthene	23.188	252	78327	0.929	ng	98
38) Benzo(k)fluoranthene	23.229	252	28340m	0.321	ng	
39) Benzo(a)pyrene	23.819	252	53960	0.625	ng	98
40) Dibenzo(a,h)anthracene	26.468	278	7324	0.087	ng	# 73
41) Benzo(g,h,i)perylene	27.234	276	28895	0.313	ng	98

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

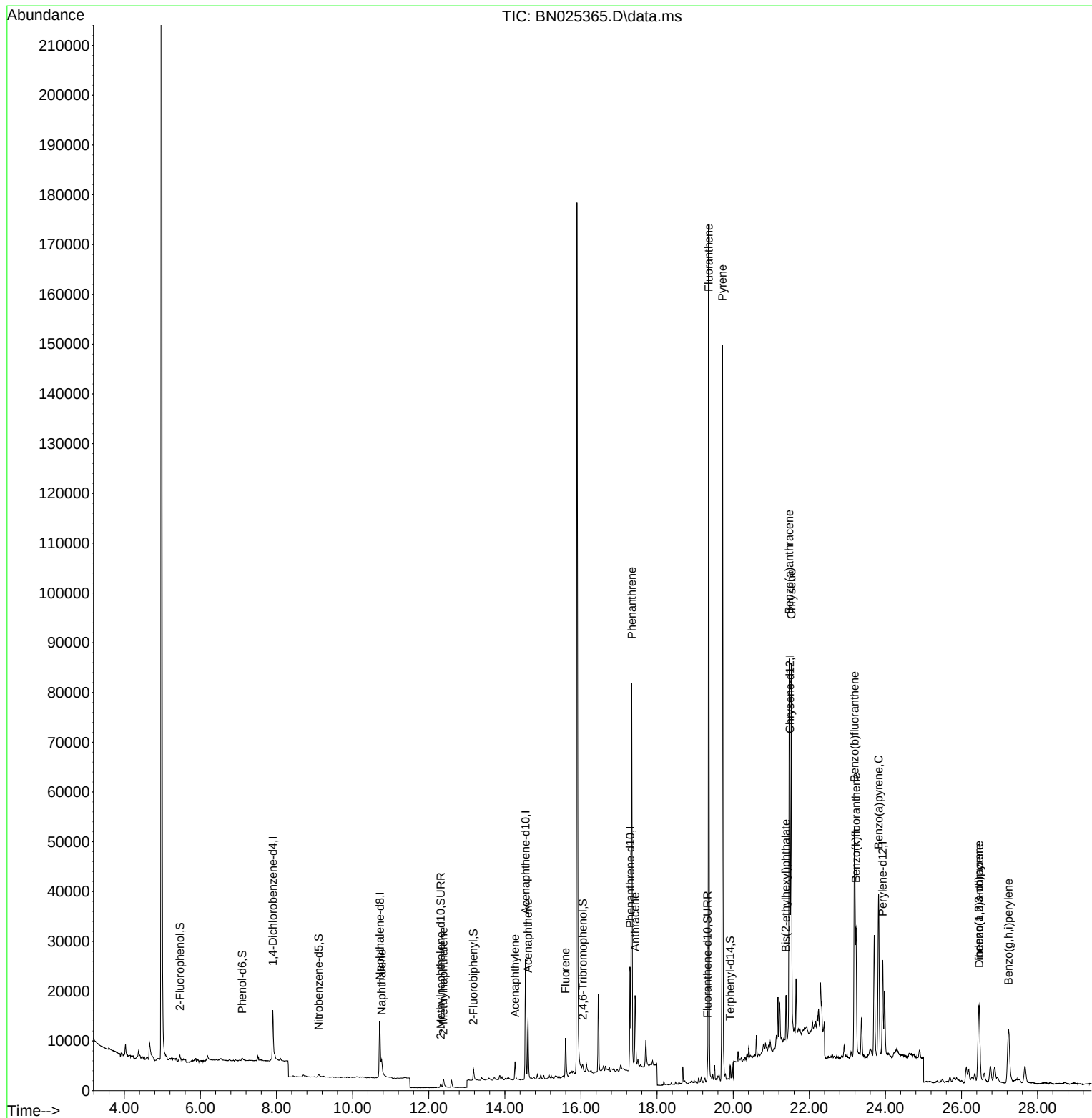
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050923\
Data File : BN025365.D
Acq On : 09 May 2023 13:53
Operator : CG/JU
Sample : 02588-03DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

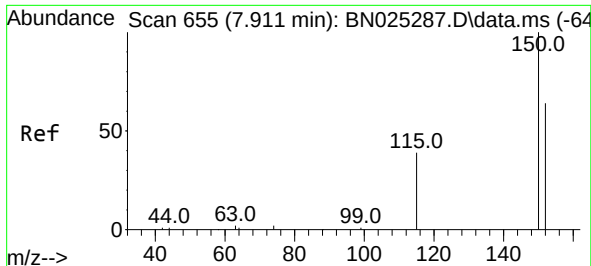
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023DL

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Reviewed By : Christian Giraldo 05/10/2023
Supervised By : Jagrut Upadhyay 05/10/2023

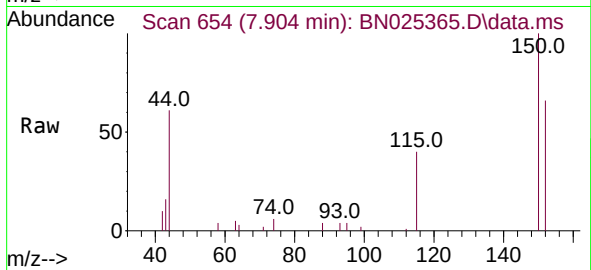
Quant Time: May 10 03:58:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 09 10:18:02 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.904 min Scan# 615
Delta R.T. -0.000 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

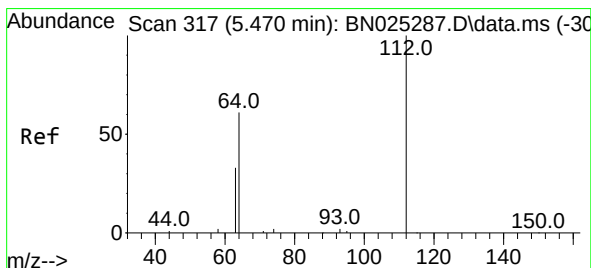
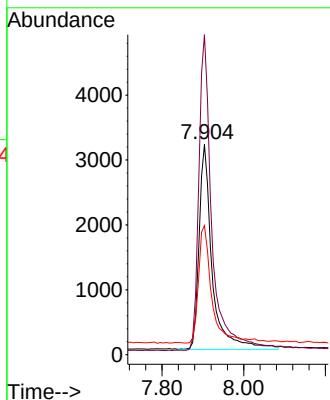
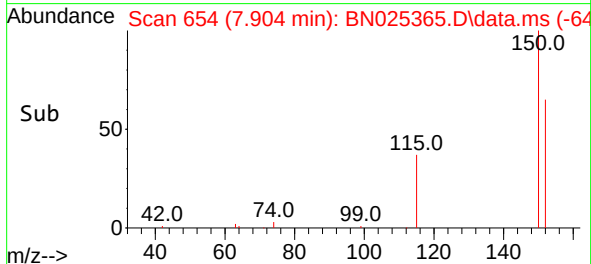
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023DL



Tgt Ion:152 Resp: 706
Ion Ratio Lower Upper
152 100
150 152.2 123.8 185.8
115 61.4 52.9 79.3

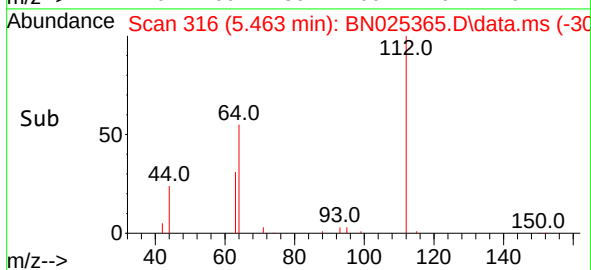
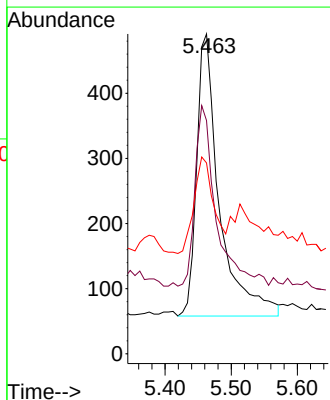
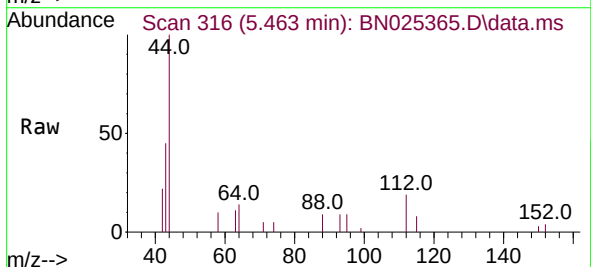
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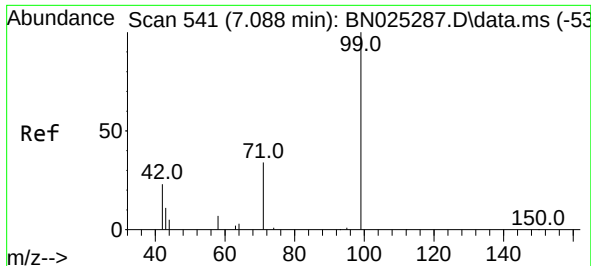
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#4
2-Fluorophenol
Concen: 0.060 ng
RT: 5.463 min Scan# 316
Delta R.T. 0.007 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

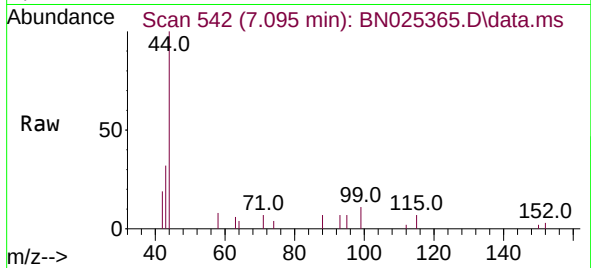
Tgt Ion:112 Resp: 1034
Ion Ratio Lower Upper
112 100
64 59.3 51.5 77.3
63 29.9 27.8 41.6





#5
Phenol-d6
Concen: 0.050 ng
RT: 7.095 min Scan# 541
Delta R.T. 0.022 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

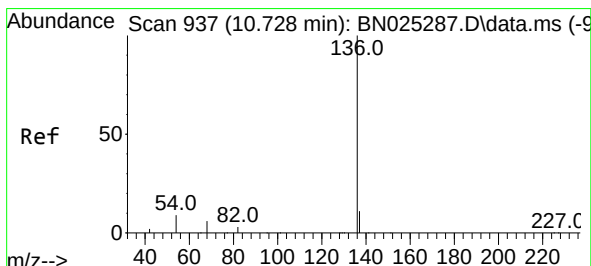
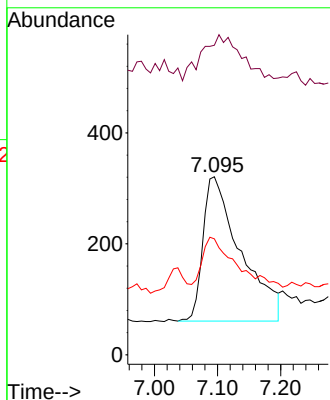
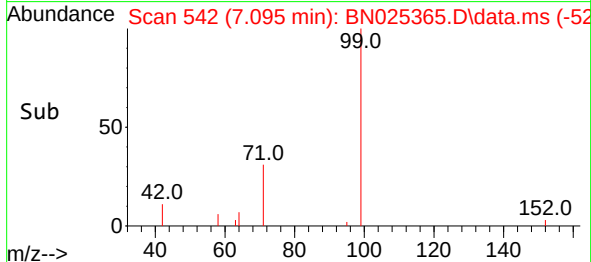
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023DL



Tgt Ion: 99 Resp: 1078
Ion Ratio Lower Upper
99 100
42 33.5 22.0 33.0
71 29.7 28.7 43.1

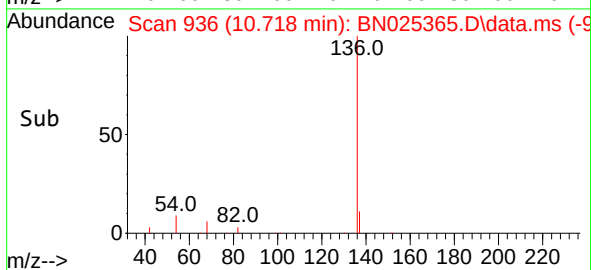
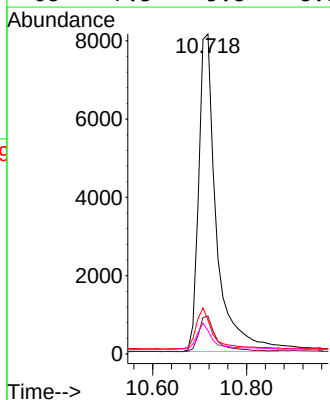
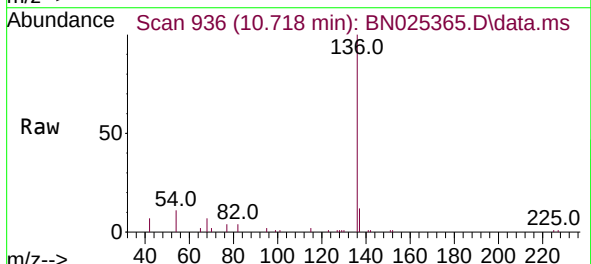
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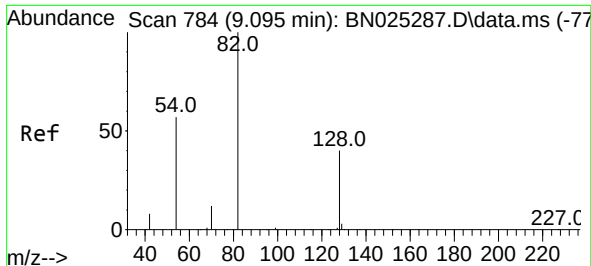
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. 0.011 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

Tgt Ion:136 Resp: 21392
Ion Ratio Lower Upper
136 100
137 11.8 9.4 14.2
54 10.5 8.5 12.7
68 7.3 5.8 8.8





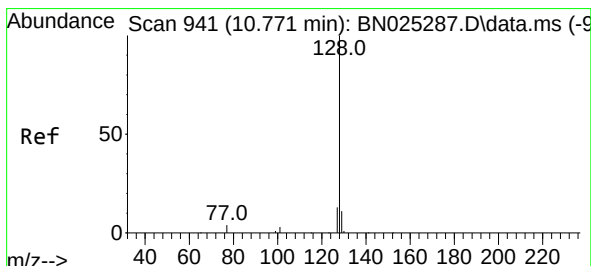
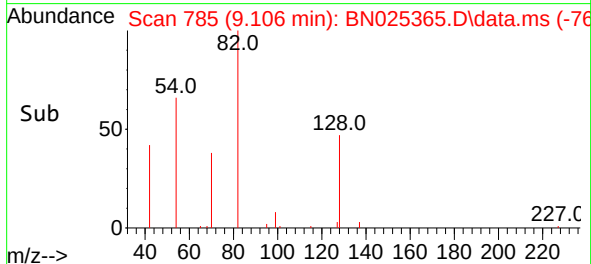
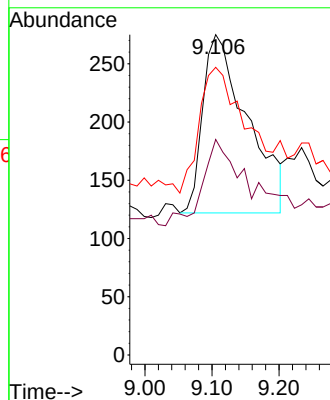
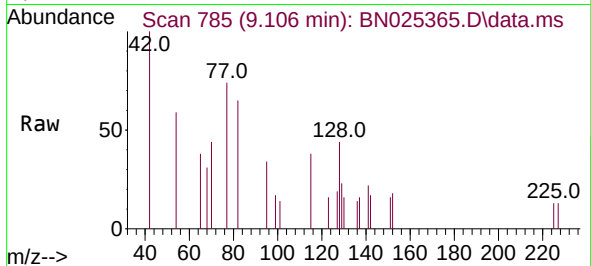
#8
Nitrobenzene-d5
Concen: 0.040 ng
RT: 9.106 min Scan# 70
Delta R.T. 0.032 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023DL

Tgt Ion: 82 Resp: 70
Ion Ratio Lower Upper
82 100
128 67.3 35.3 52.9
54 89.8 48.7 73.1

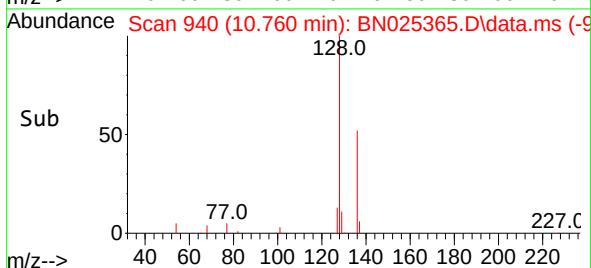
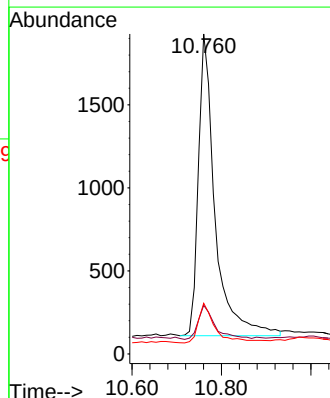
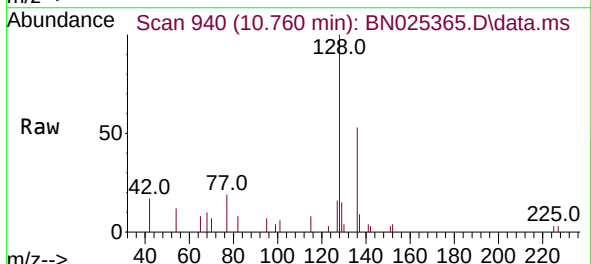
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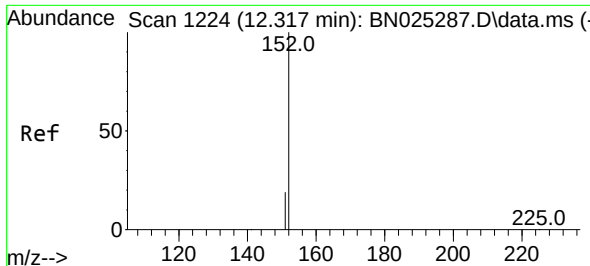
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#9
Naphthalene
Concen: 0.086 ng
RT: 10.760 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

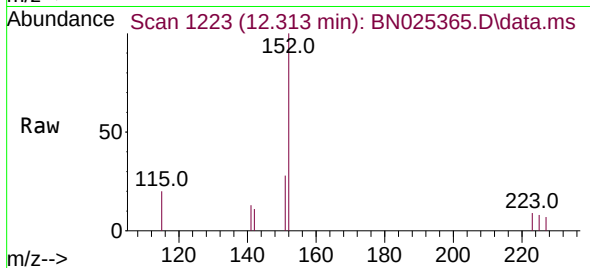
Tgt Ion:128 Resp: 4703
Ion Ratio Lower Upper
128 100
129 15.2 9.4 14.2
127 15.8 11.0 16.6





#11
2-Methylnaphthalene-d10
Concen: 0.062 ng
RT: 12.313 min Scan# 11
Delta R.T. 0.011 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

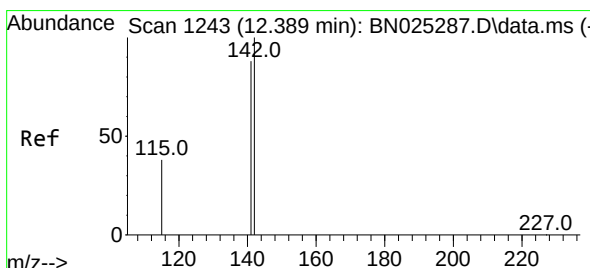
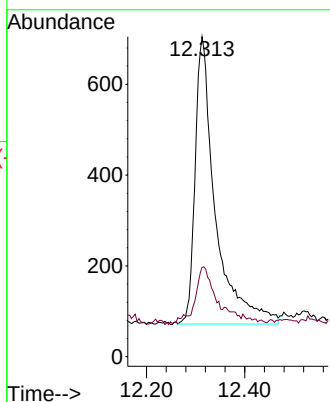
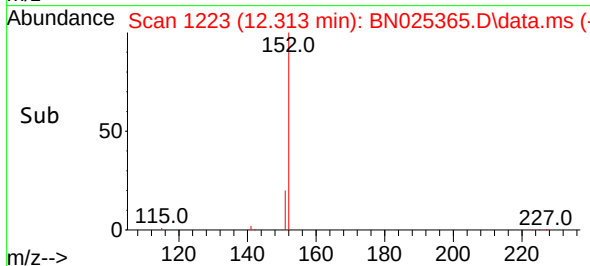
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023DL



Tgt Ion:152 Resp: 1809
Ion Ratio Lower Upper
152 100
151 13.3 16.4 24.6

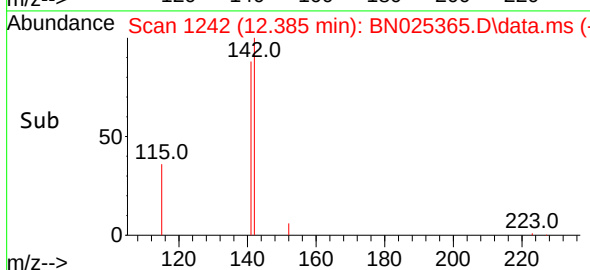
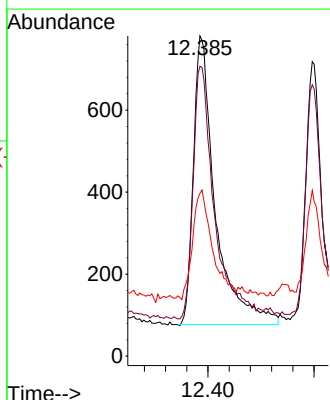
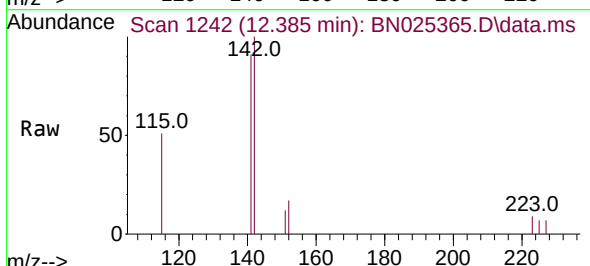
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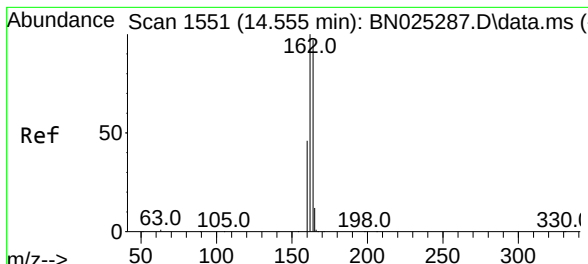
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#12
2-Methylnaphthalene
Concen: 0.052 ng
RT: 12.385 min Scan# 1242
Delta R.T. 0.008 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

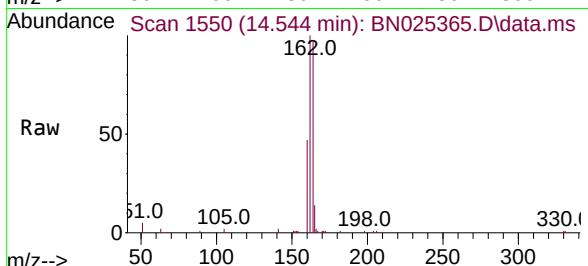
Tgt Ion:142 Resp: 2018
Ion Ratio Lower Upper
142 100
141 90.5 70.5 105.7
115 50.8 31.6 47.4





#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.544 min Scan# 1551
 Delta R.T. 0.000 min
 Lab File: BN025365.D
 Acq: 09 May 2023 13:53

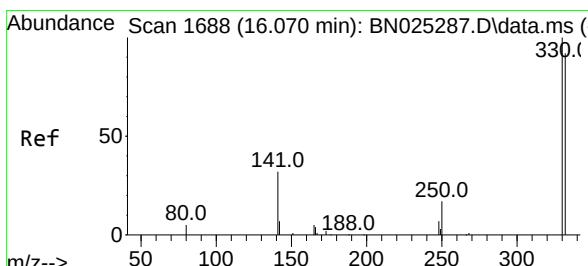
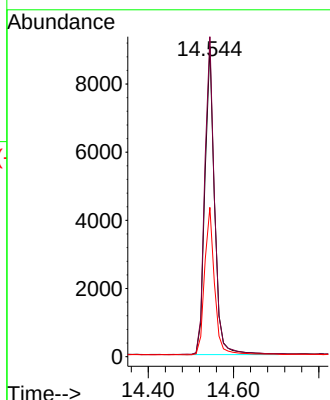
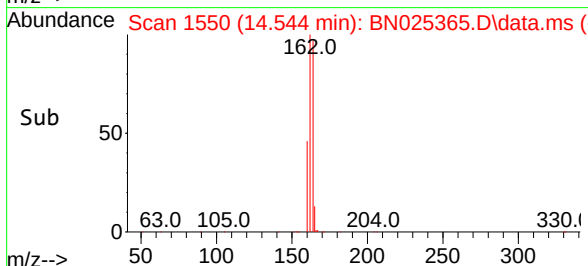
Instrument :
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Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	82.1	123.1
160	48.1	38.3	57.5

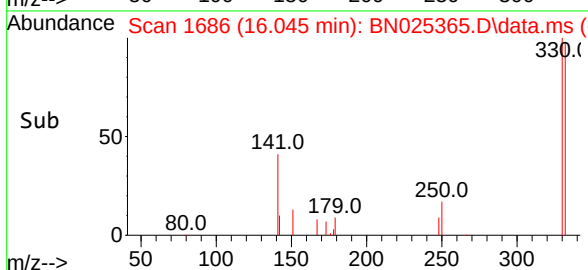
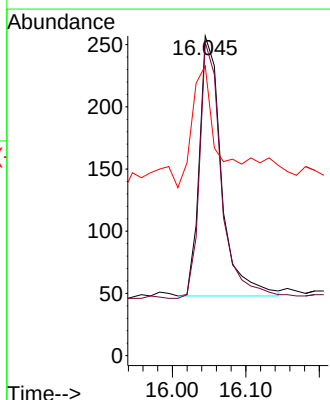
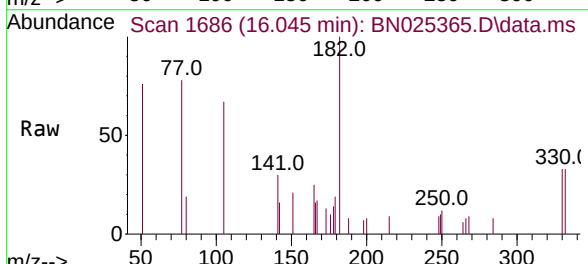
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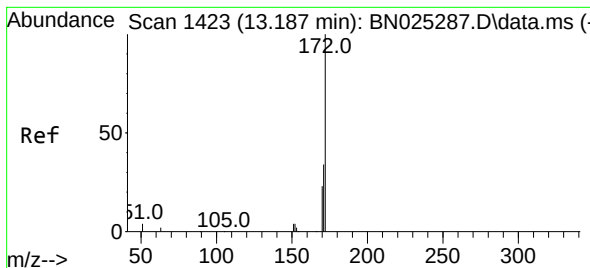
Reviewed By :Christian Giraldo 05/10/2023
 Supervised By :Jagrut Upadhyay 05/10/2023



#14
 2,4,6-Tribromophenol
 Concen: 0.060 ng
 RT: 16.045 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: BN025365.D
 Acq: 09 May 2023 13:53

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.4	116.0
141	50.5	28.9	43.3





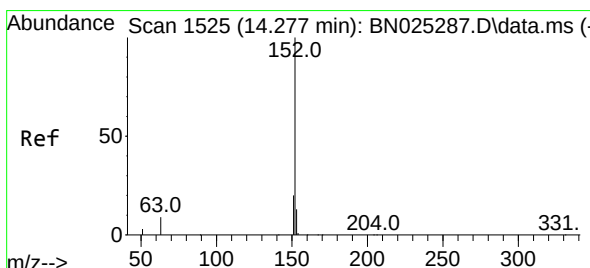
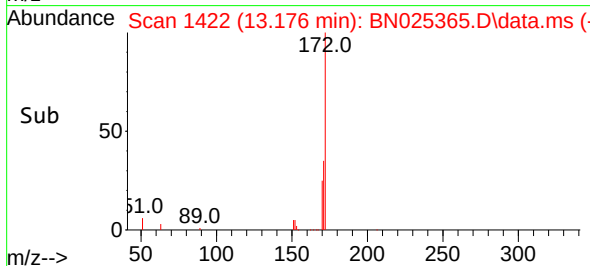
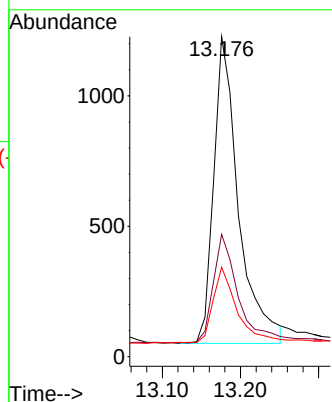
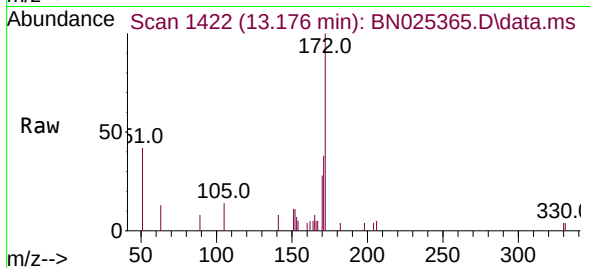
#15
2-Fluorobiphenyl
Concen: 0.053 ng
RT: 13.176 min Scan# 1423
Delta R.T. 0.000 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023DL

Tgt Ion:172 Resp: 2588
Ion Ratio Lower Upper
172 100
171 38.2 27.9 41.9
170 28.0 19.0 28.4

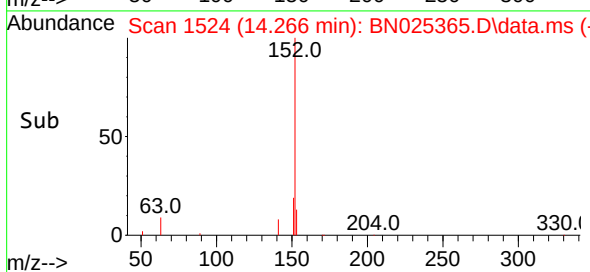
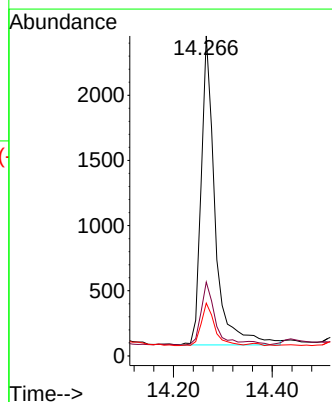
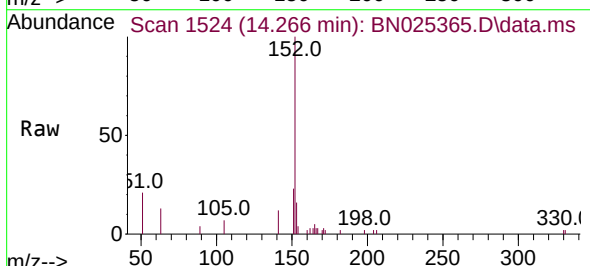
Manual Integrations
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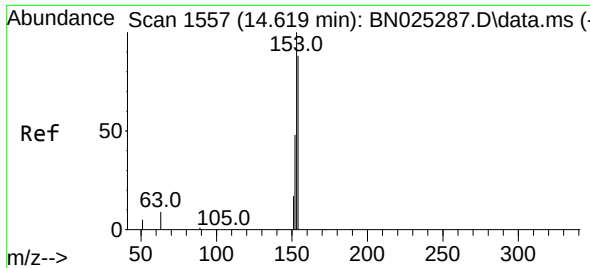
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#16
Acenaphthylene
Concen: 0.072 ng
RT: 14.266 min Scan# 1524
Delta R.T. 0.000 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

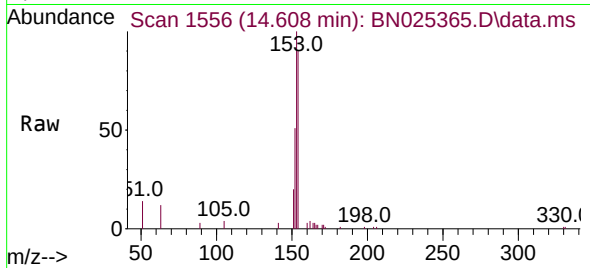
Tgt Ion:152 Resp: 4635
Ion Ratio Lower Upper
152 100
151 20.2 16.1 24.1
153 13.4 10.3 15.5





#17
Acenaphthene
Concen: 0.164 ng
RT: 14.608 min Scan# 1557
Delta R.T. 0.000 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

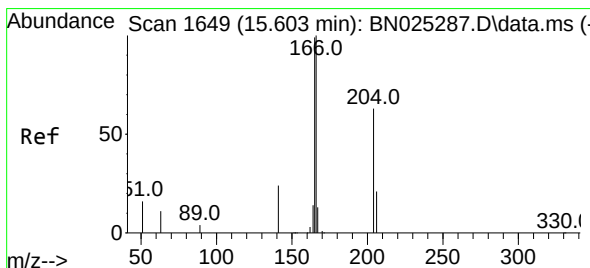
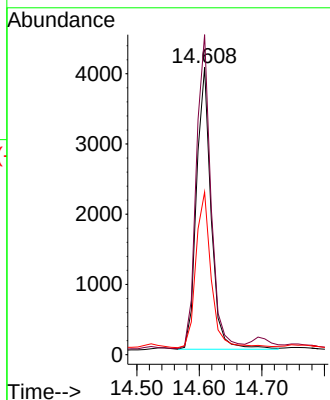
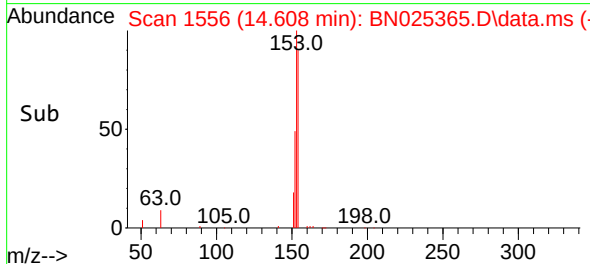
Instrument :
BNA_N
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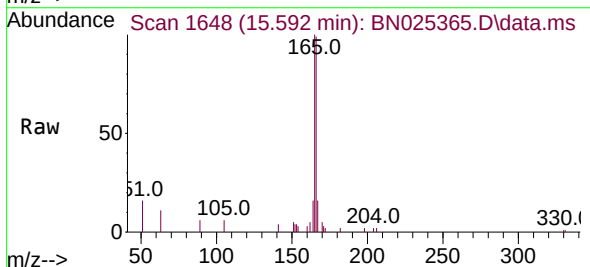
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Ion Ratio Lower Upper
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153 112.0 91.3 136.9
152 57.6 44.7 67.1

Manual Integrations
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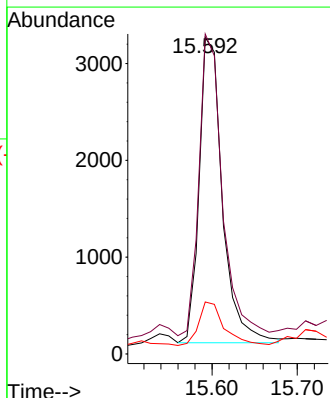
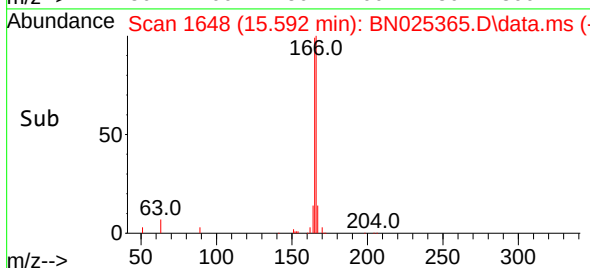
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023

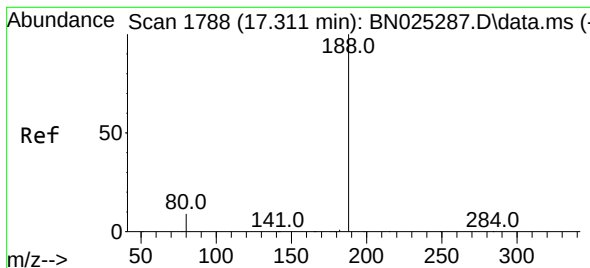


#18
Fluorene
Concen: 0.110 ng
RT: 15.592 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53



Tgt Ion:166 Resp: 5979
Ion Ratio Lower Upper
166 100
165 98.9 79.0 118.4
167 15.6 10.3 15.5#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.298 min Scan# 1788

Delta R.T. 0.000 min

Lab File: BN025365.D

Acq: 09 May 2023 13:53

Instrument :

BNA_N

ClientSampleId :

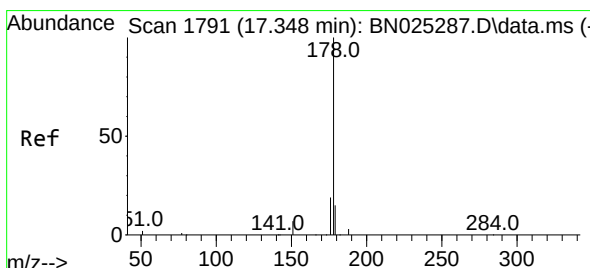
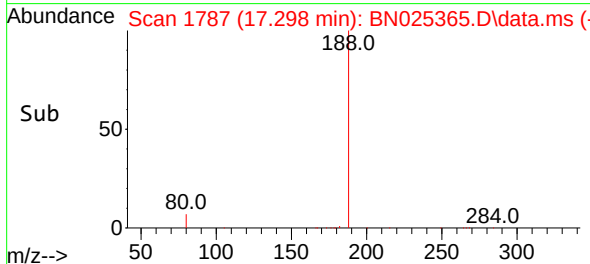
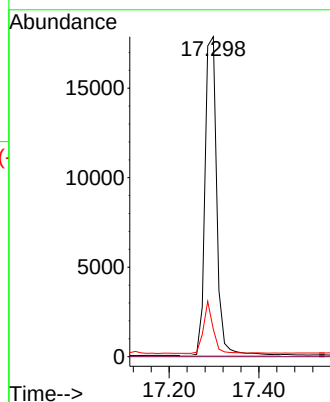
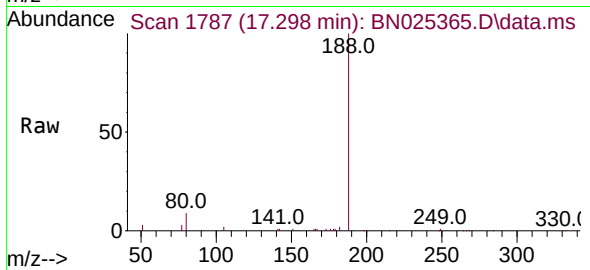
ZONE-B-6-9-05012023DL

Tgt Ion:188 Resp: 32445
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 8.5 8.0 12.0

Manual Integrations

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Reviewed By :Christian Giraldo 05/10/2023
 Supervised By :Jagrut Upadhyay 05/10/2023



#25

Phenanthrene

Concen: 0.913 ng

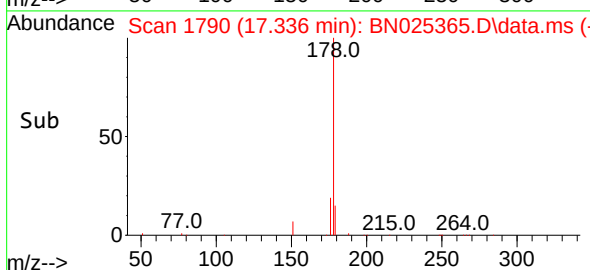
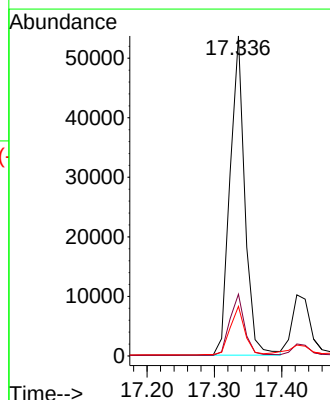
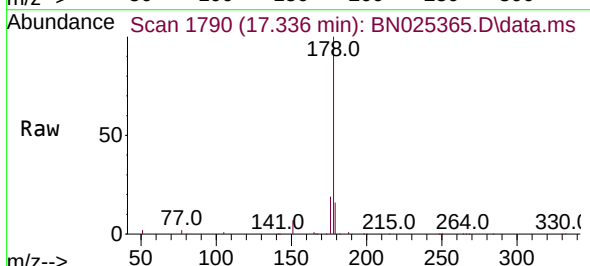
RT: 17.336 min Scan# 1790

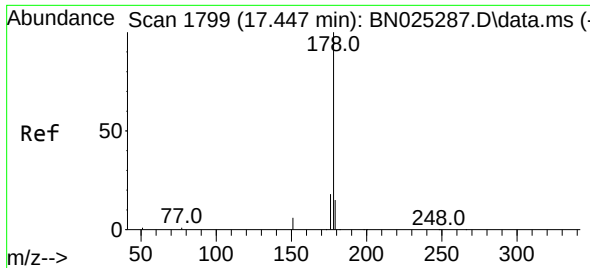
Delta R.T. 0.000 min

Lab File: BN025365.D

Acq: 09 May 2023 13:53

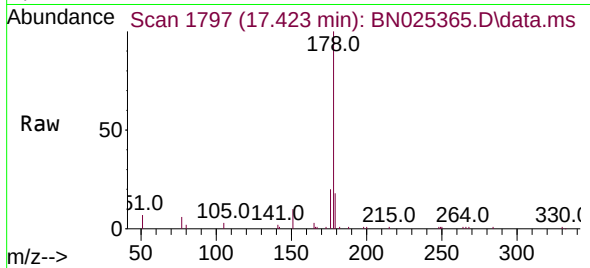
Tgt Ion:178 Resp: 81970
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.5 23.3
 179 15.3 12.4 18.6





#26
 Anthracene
 Concen: 0.233 ng
 RT: 17.423 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BN025365.D
 Acq: 09 May 2023 13:53

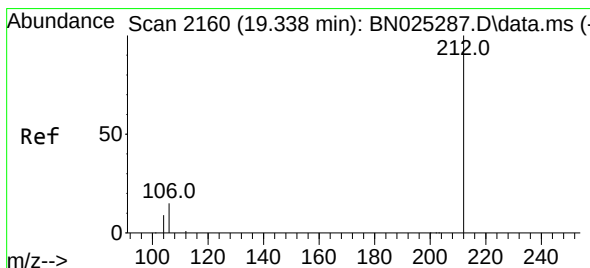
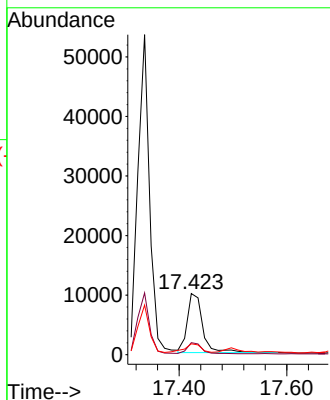
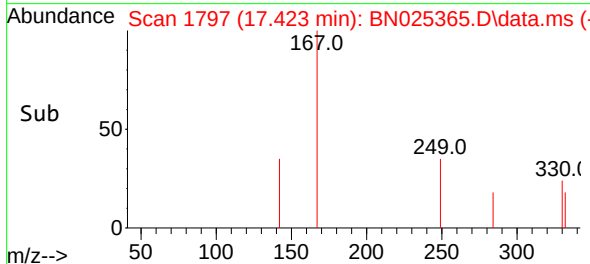
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-6-9-05012023DL



Tgt Ion:178 Resp: 1958
 Ion Ratio Lower Upper
 178 100
 176 17.7 14.9 22.3
 179 15.4 12.0 18.0

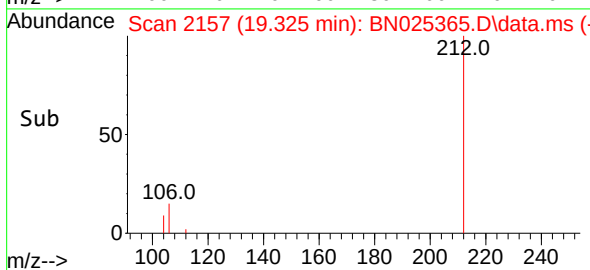
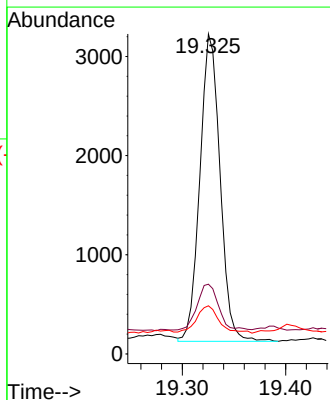
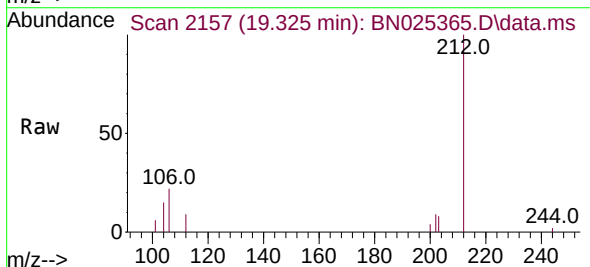
Manual Integrations
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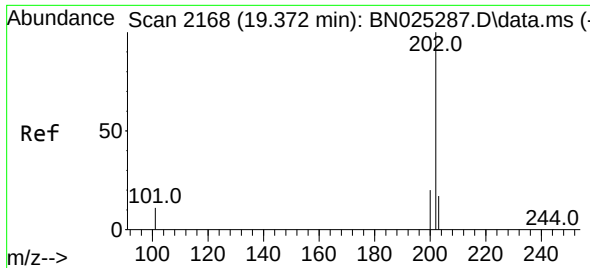
Reviewed By :Christian Giraldo 05/10/2023
 Supervised By :Jagrut Upadhyay 05/10/2023



#27
 Fluoranthene-d10
 Concen: 0.052 ng
 RT: 19.325 min Scan# 2157
 Delta R.T. -0.004 min
 Lab File: BN025365.D
 Acq: 09 May 2023 13:53

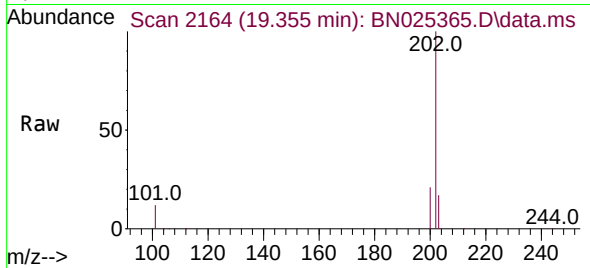
Tgt Ion:212 Resp: 4194
 Ion Ratio Lower Upper
 212 100
 106 15.6 12.6 19.0
 104 9.9 7.0 10.6





#28
Fluoranthene
Concen: 1.386 ng
RT: 19.355 min Scan# 2164
Delta R.T. -0.004 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

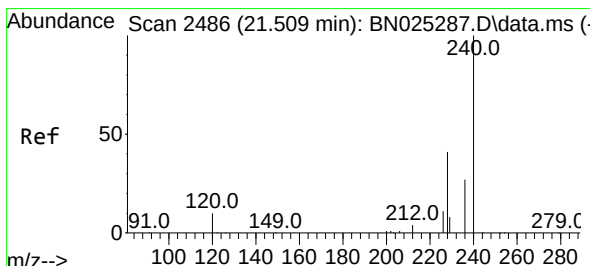
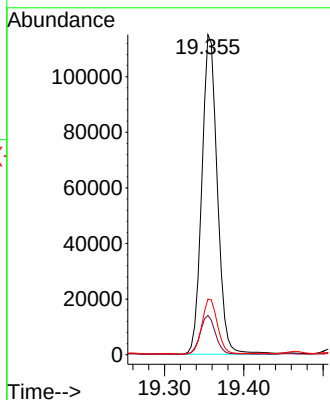
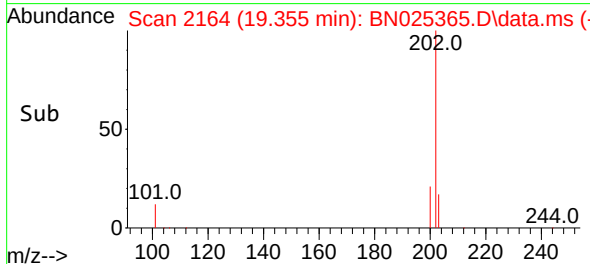
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023DL



Tgt Ion:202 Resp: 155470
Ion Ratio Lower Upper
202 100
101 12.1 9.8 14.8
203 17.2 13.5 20.3

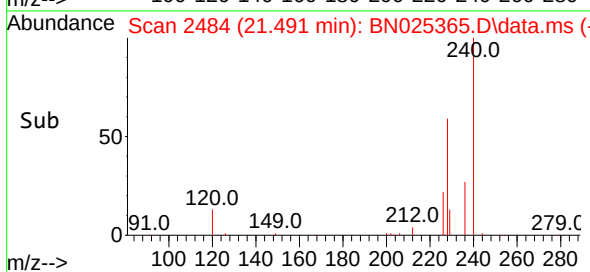
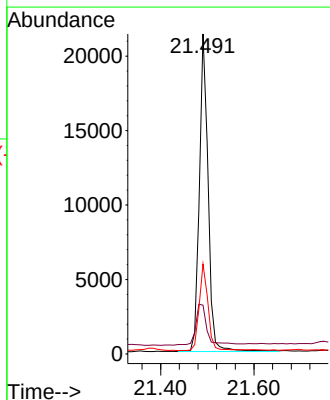
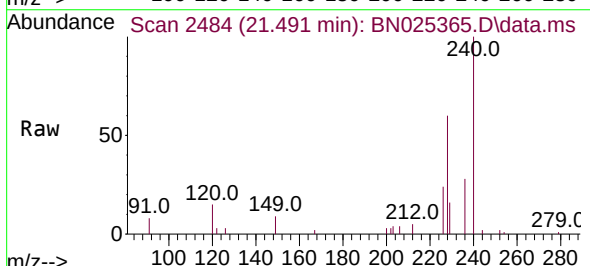
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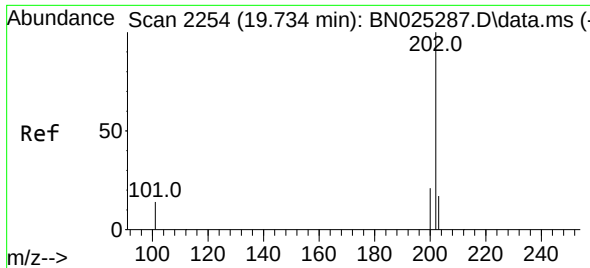
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.491 min Scan# 2484
Delta R.T. 0.005 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

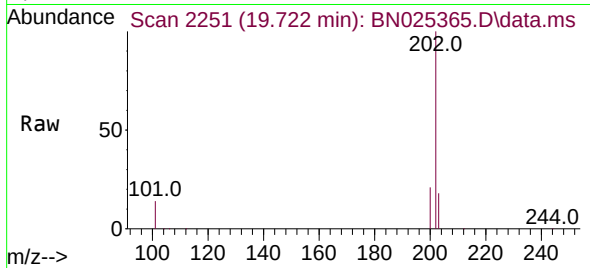
Tgt Ion:240 Resp: 27840
Ion Ratio Lower Upper
240 100
120 15.3 10.3 15.5
236 28.1 22.3 33.5





#30
Pyrene
Concen: 1.428 ng
RT: 19.722 min Scan# 21
Delta R.T. -0.004 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

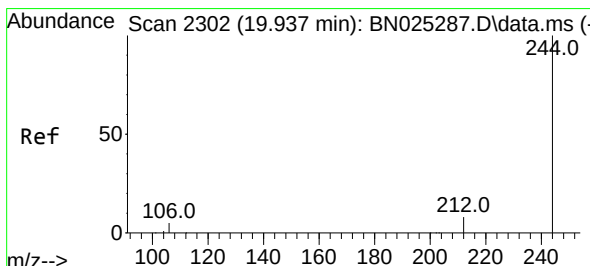
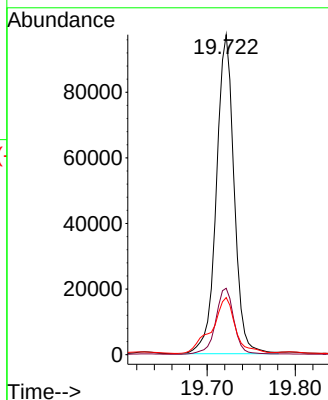
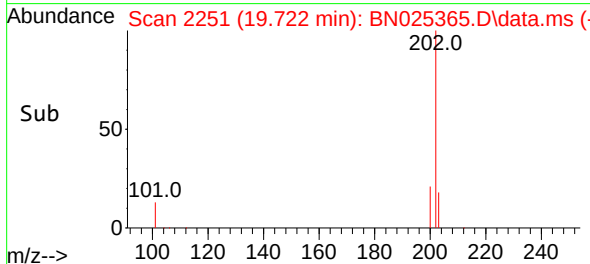
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023DL



Tgt Ion:202 Resp: 135928
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 23.2 14.4 21.6

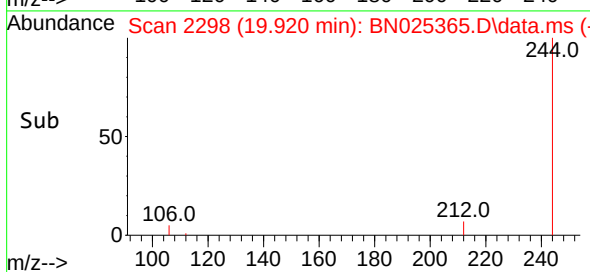
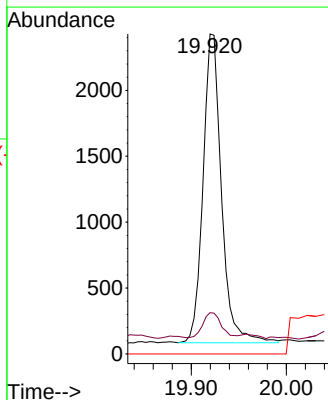
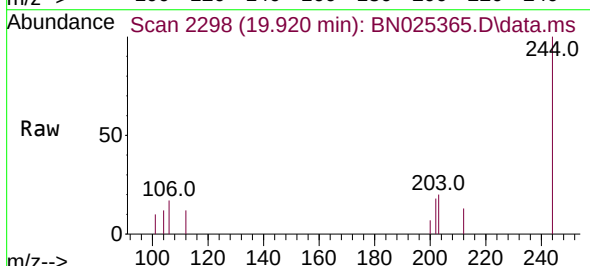
Manual Integrations
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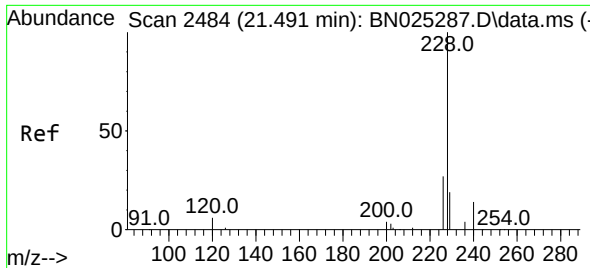
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#31
Terphenyl-d14
Concen: 0.056 ng
RT: 19.920 min Scan# 2298
Delta R.T. -0.004 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

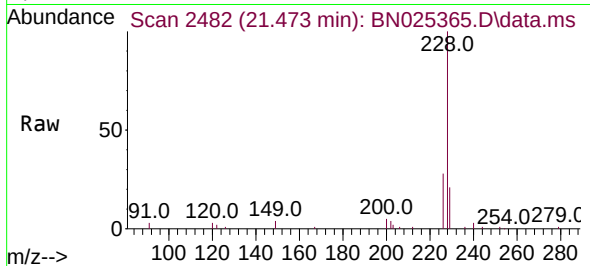
Tgt Ion:244 Resp: 3157
Ion Ratio Lower Upper
244 100
212 12.9 7.1 10.7#
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 0.729 ng
RT: 21.473 min Scan# 2482
Delta R.T. 0.005 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

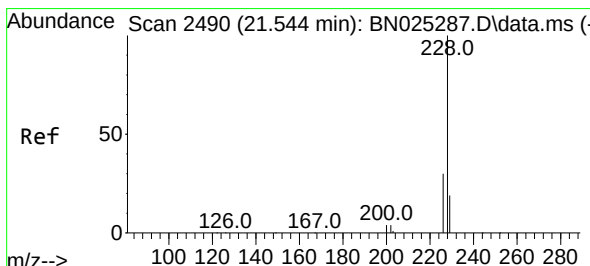
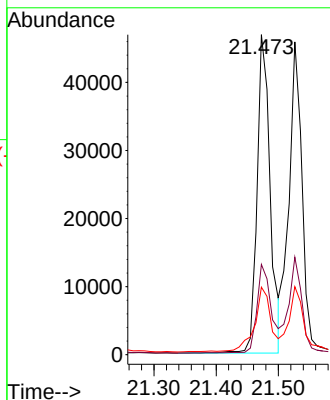
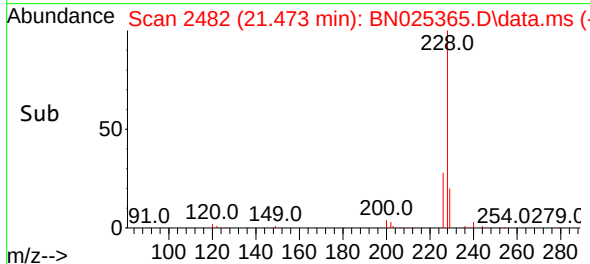
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023DL



Tgt Ion:228 Resp: 6858
Ion Ratio Lower Upper
228 100
226 28.2 22.5 33.7
229 21.1 16.2 24.2

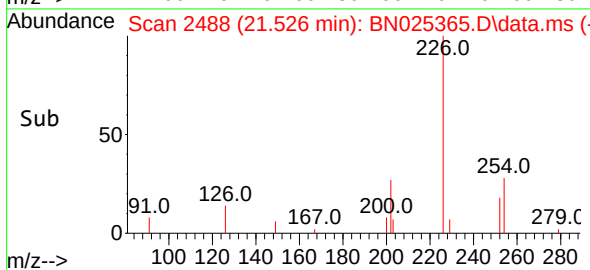
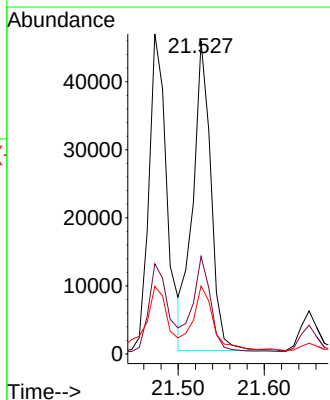
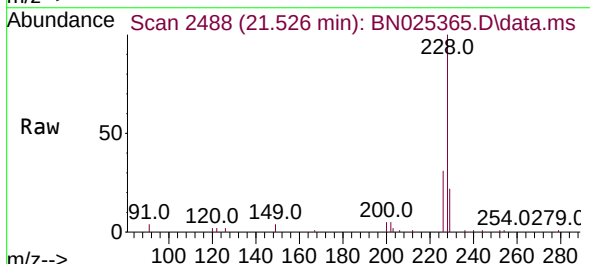
Manual Integrations
APPROVED

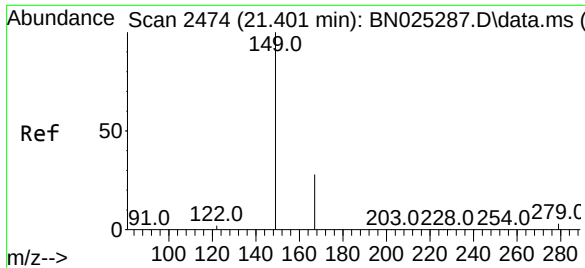
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#33
Chrysene
Concen: 0.709 ng
RT: 21.526 min Scan# 2488
Delta R.T. 0.005 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

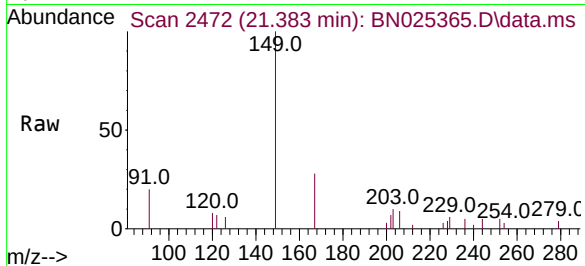
Tgt Ion:228 Resp: 66372
Ion Ratio Lower Upper
228 100
226 31.1 24.6 36.8
229 21.8 16.2 24.4





#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.119 ng
 RT: 21.383 min Scan# 2472
 Delta R.T. 0.005 min
 Lab File: BN025365.D
 Acq: 09 May 2023 13:53

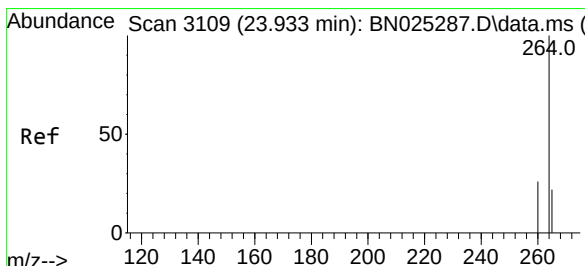
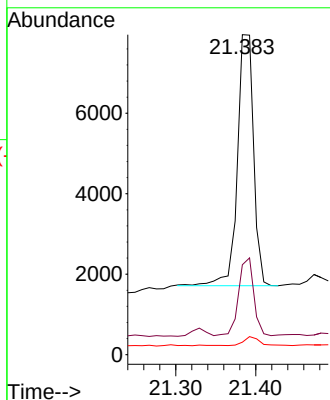
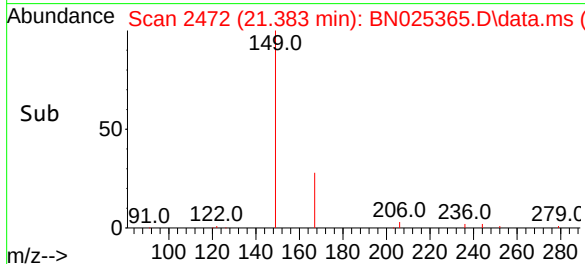
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-6-9-05012023DL



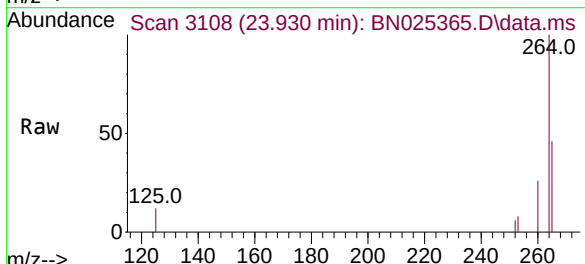
Tgt Ion:149 Resp: 877
 Ion Ratio Lower Upper
 149 100
 167 29.1 22.2 33.4
 279 3.5 2.6 4.0

Manual Integrations
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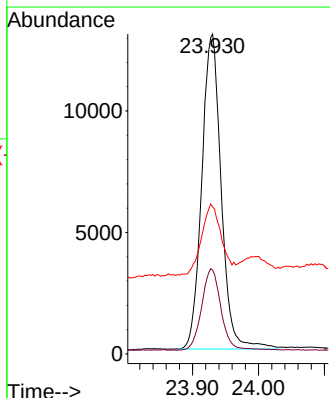
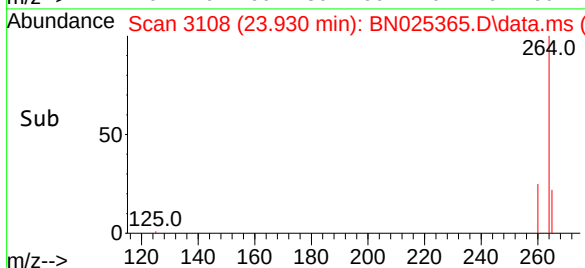
Reviewed By :Christian Giraldo 05/10/2023
 Supervised By :Jagrut Upadhyay 05/10/2023

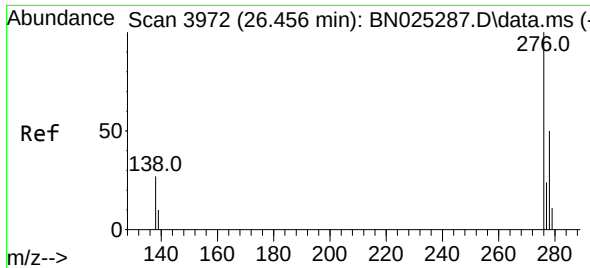


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.930 min Scan# 3108
 Delta R.T. 0.019 min
 Lab File: BN025365.D
 Acq: 09 May 2023 13:53



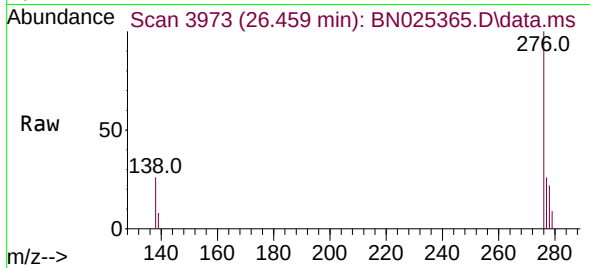
Tgt Ion:264 Resp: 26595
 Ion Ratio Lower Upper
 264 100
 260 26.2 21.5 32.3
 265 46.0 46.2 69.4#





#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.283 ng
 RT: 26.459 min Scan# 3973
 Delta R.T. 0.002 min
 Lab File: BN025365.D
 Acq: 09 May 2023 13:53

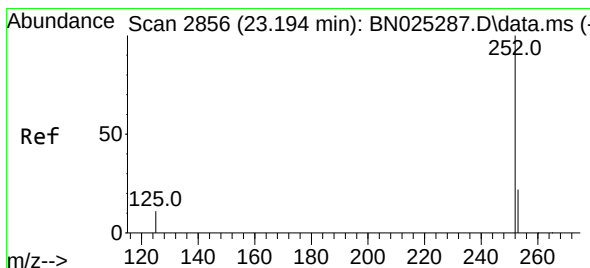
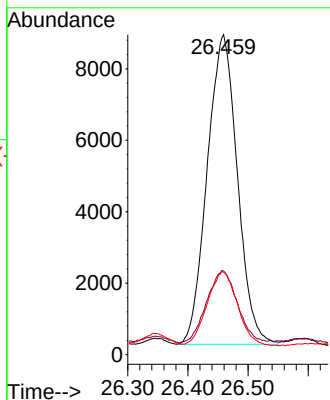
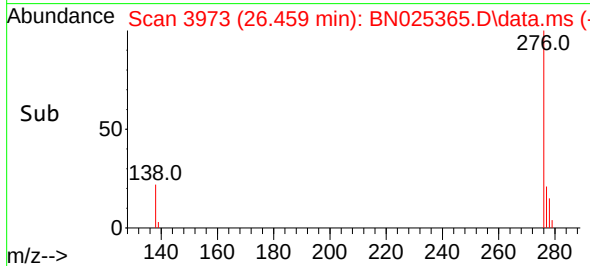
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-6-9-05012023DL



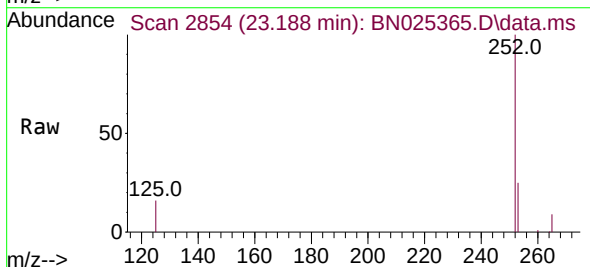
Tgt Ion: 276 Resp: 30170
 Ion Ratio Lower Upper
 276 100
 138 23.7 22.5 33.7
 277 23.8 19.8 29.6

Manual Integrations
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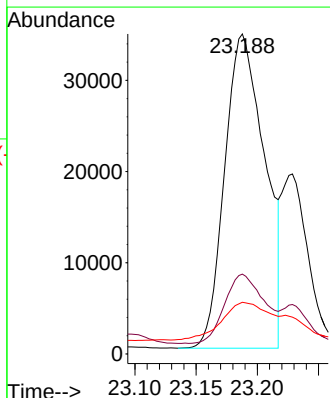
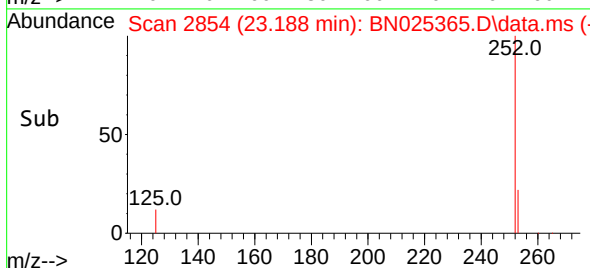
Reviewed By : Christian Giraldo 05/10/2023
 Supervised By : Jagrut Upadhyay 05/10/2023

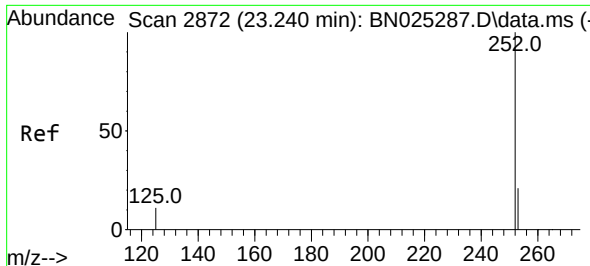


#37
 Benzo(b)fluoranthene
 Concen: 0.929 ng
 RT: 23.188 min Scan# 2854
 Delta R.T. 0.016 min
 Lab File: BN025365.D
 Acq: 09 May 2023 13:53



Tgt Ion: 252 Resp: 78327
 Ion Ratio Lower Upper
 252 100
 253 25.0 20.8 31.2
 125 16.1 13.4 20.2





#38

Benzo(k)fluoranthene

Concen: 0.321 ng m

RT: 23.229 min Scan# 2868

Delta R.T. 0.010 min

Lab File: BN025365.D

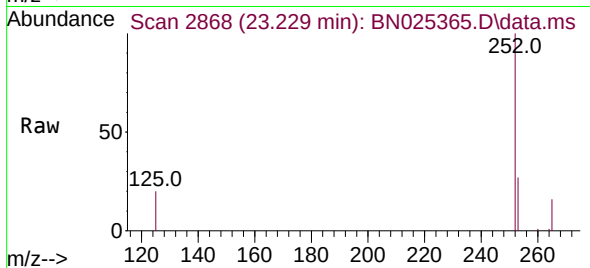
Acq: 09 May 2023 13:53

Instrument :

BNA_N

ClientSampleId :

ZONE-B-6-9-05012023DL



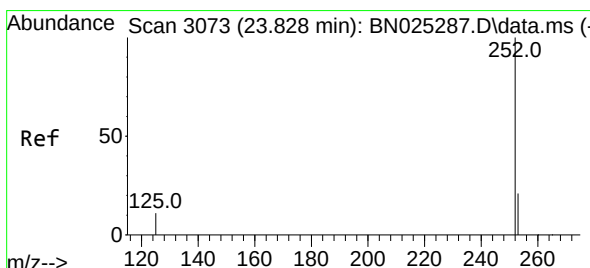
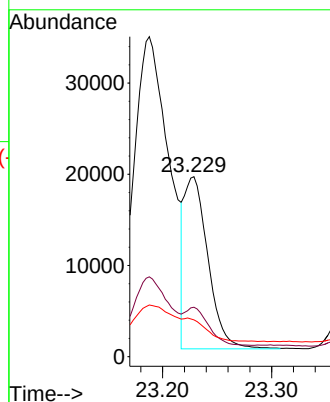
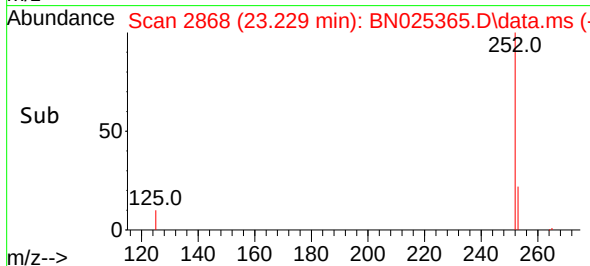
Tgt Ion:252 Resp: 28340

Ion	Ratio	Lower	Upper
252	100		
253	27.4	20.6	30.8
125	20.4	13.1	19.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#39

Benzo(a)pyrene

Concen: 0.625 ng

RT: 23.819 min Scan# 3070

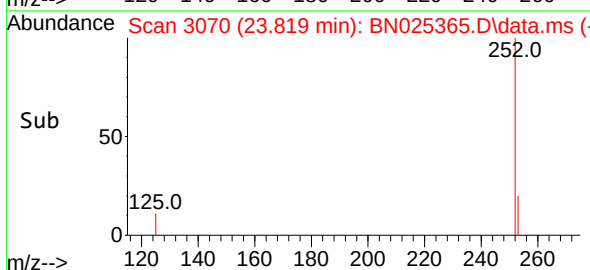
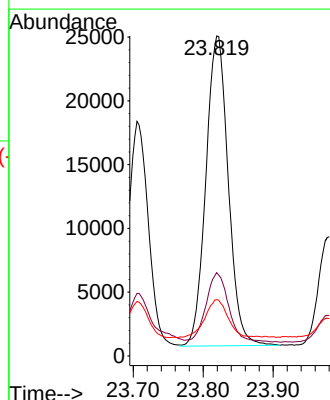
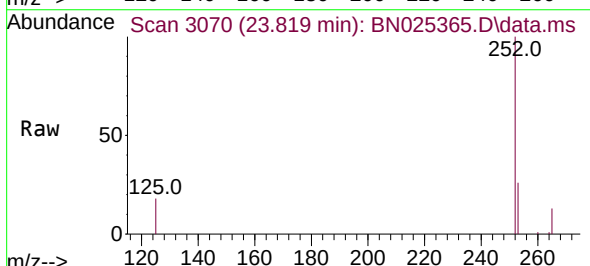
Delta R.T. 0.008 min

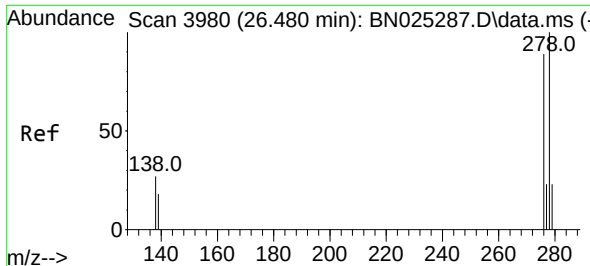
Lab File: BN025365.D

Acq: 09 May 2023 13:53

Tgt Ion:252 Resp: 53960

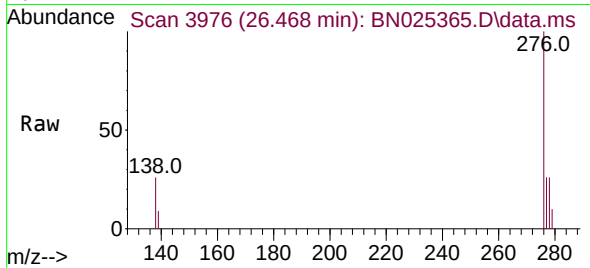
Ion	Ratio	Lower	Upper
252	100		
253	26.1	21.4	32.0
125	17.6	15.4	23.2





#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 26.468 min Scan# 3976
Delta R.T. -0.004 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53

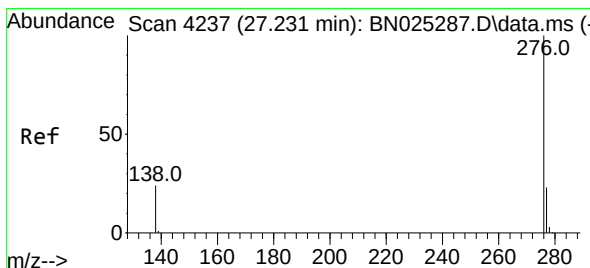
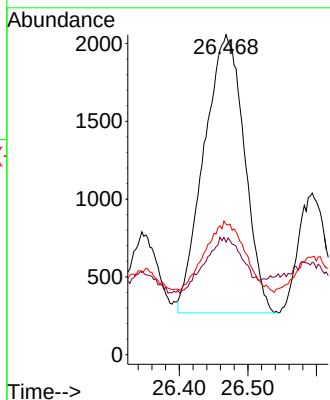
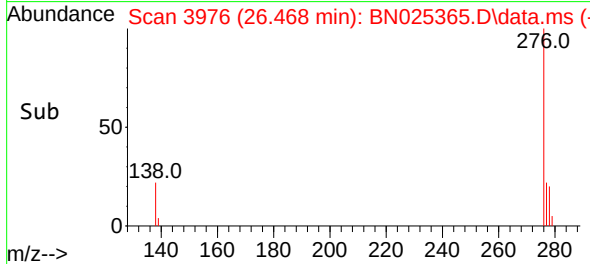
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023DL



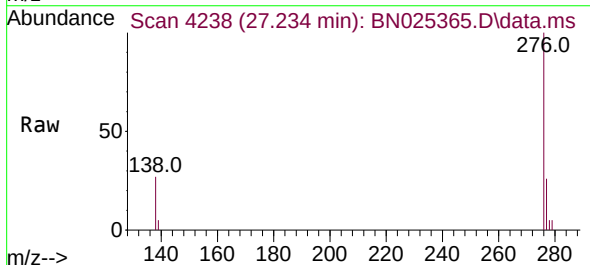
Tgt Ion:278 Resp: 7324
Ion Ratio Lower Upper
278 100
139 35.2 17.6 26.4
279 40.7 21.6 32.4

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#41
Benzo(g,h,i)perylene
Concen: 0.313 ng
RT: 27.234 min Scan# 4238
Delta R.T. -0.001 min
Lab File: BN025365.D
Acq: 09 May 2023 13:53



Tgt Ion:276 Resp: 28895
Ion Ratio Lower Upper
276 100
277 26.0 20.1 30.1
138 27.1 21.0 31.6

