

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050923\
 Data File : BN025367.D
 Acq On : 09 May 2023 15:05
 Operator : CG/JU
 Sample : 02588-11DL 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-D-3-6-05022023DL

Manual Integrations
 APPROVED

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

Quant Time: May 10 03:58:57 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	6724	0.400	ng	0.00
7) Naphthalene-d8	10.718	136	23777	0.400	ng	0.01
13) Acenaphthene-d10	14.544	164	14631	0.400	ng	0.00
19) Phenanthrene-d10	17.286	188	32729	0.400	ng	#-0.01
29) Chrysene-d12	21.491	240	28380	0.400	ng	0.00
35) Perylene-d12	23.910	264	25948	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.463	112	822	0.050	ng	0.00
5) Phenol-d6	7.095	99	791	0.039	ng	0.02
8) Nitrobenzene-d5	9.106	82	602	0.031	ng	0.03
11) 2-Methylnaphthalene-d10	12.313	152	1381	0.042	ng	0.01
14) 2,4,6-Tribromophenol	16.045	330	234	0.031	ng	0.00
15) 2-Fluorobiphenyl	13.176	172	2119	0.042	ng	0.00
27) Fluoranthene-d10	19.325	212	3196	0.039	ng	0.00
31) Terphenyl-d14	19.920	244	2403	0.042	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.761	128	5827	0.096	ng	# 95
12) 2-Methylnaphthalene	12.385	142	3078	0.071	ng	94
16) Acenaphthylene	14.267	152	9431	0.144	ng	98
17) Acenaphthene	14.609	154	4186	0.103	ng	98
18) Fluorene	15.592	166	5799	0.104	ng	# 99
25) Phenanthrene	17.336	178	109300	1.207	ng	100
26) Anthracene	17.423	178	24944	0.294	ng	98
28) Fluoranthene	19.355	202	234969	2.077	ng	99
30) Pyrene	19.717	202	205175	2.115	ng	# 96
32) Benzo(a)anthracene	21.473	228	118765	1.238	ng	98
33) Chrysene	21.527	228	110497	1.157	ng	98
34) Bis(2-ethylhexyl)phtha...	21.383	149	17695	0.235	ng	96
36) Indeno(1,2,3-cd)pyrene	26.424	276	58148m	0.559	ng	
37) Benzo(b)fluoranthene	23.176	252	141923	1.725	ng	98
38) Benzo(k)fluoranthene	23.217	252	50013m	0.581	ng	
39) Benzo(a)pyrene	23.802	252	97807	1.161	ng	95
40) Dibenzo(a,h)anthracene	26.427	278	14048	0.171	ng	# 77
41) Benzo(g,h,i)perylene	27.196	276	58768	0.651	ng	100

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

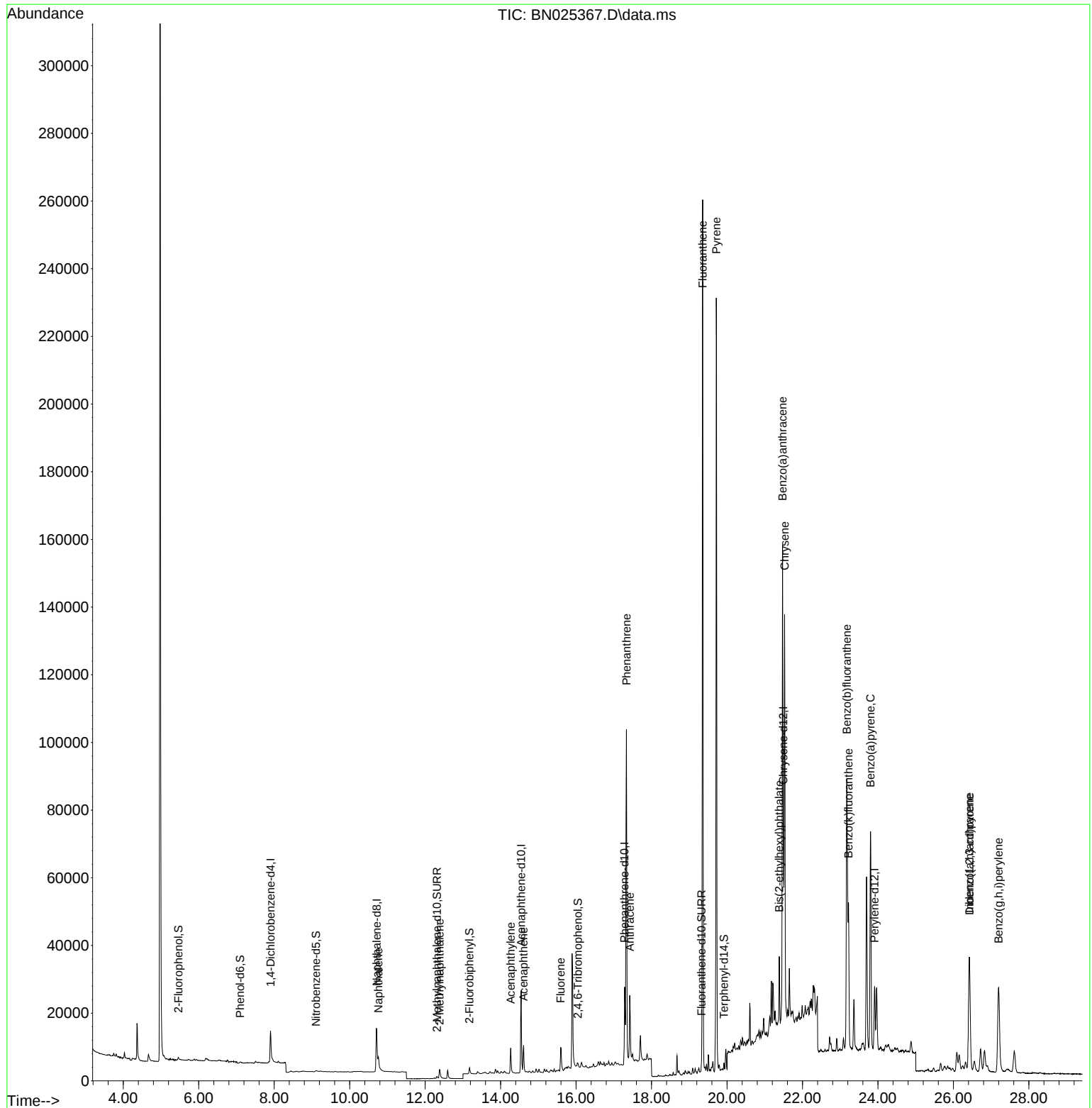
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050923\
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APPROVED

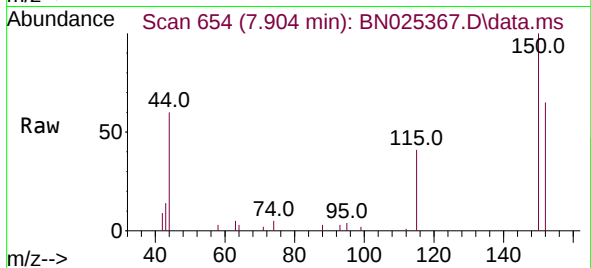
Reviewed By : Christian Giraldo 05/10/2023
Supervised By : Jagrut Upadhyay 05/10/2023





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

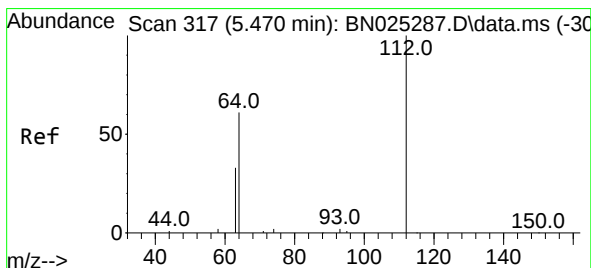
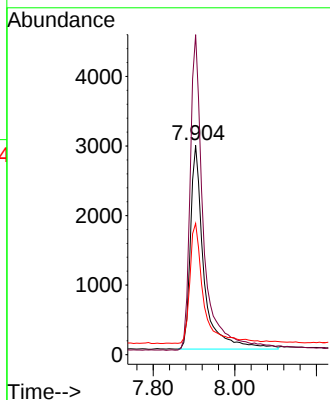
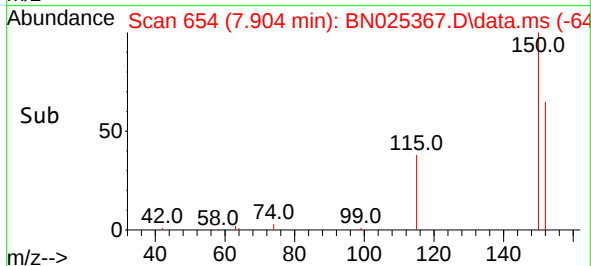
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL



Tgt Ion:152 Resp: 6724
Ion Ratio Lower Upper
152 100
150 152.9 123.8 185.8
115 62.7 52.9 79.3

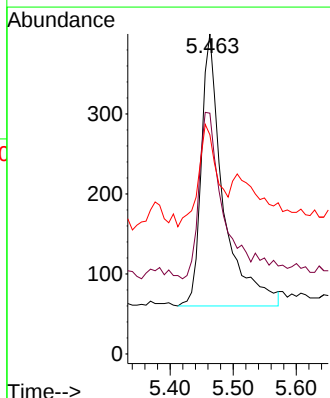
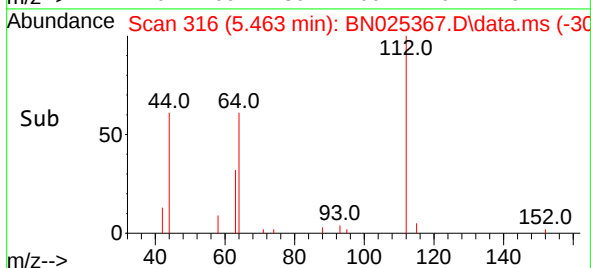
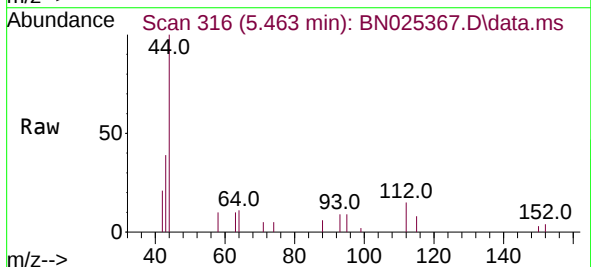
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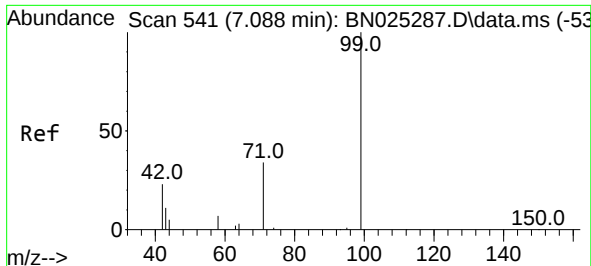
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#4
2-Fluorophenol
Concen: 0.050 ng
RT: 5.463 min Scan# 316
Delta R.T. 0.007 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

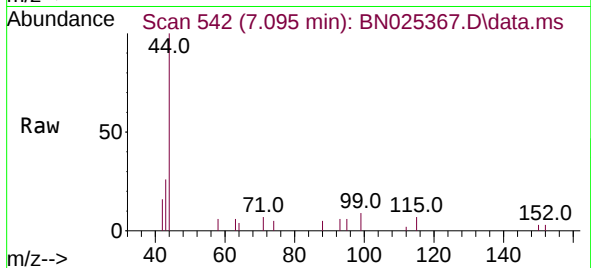
Tgt Ion:112 Resp: 822
Ion Ratio Lower Upper
112 100
64 65.2 51.5 77.3
63 33.1 27.8 41.6





#5
Phenol-d6
Concen: 0.039 ng
RT: 7.095 min Scan# 541
Delta R.T. 0.022 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

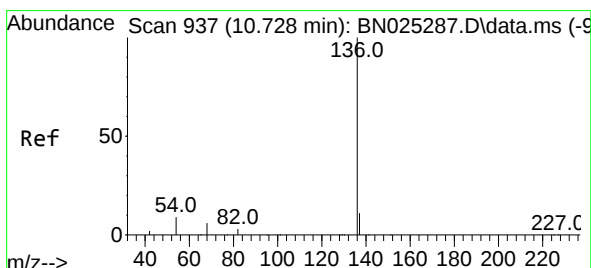
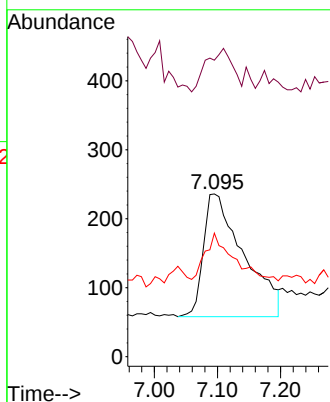
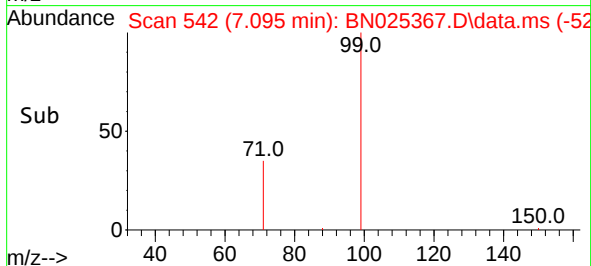
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL



Tgt Ion: 99 Resp: 79
Ion Ratio Lower Upper
99 100
42 22.8 22.0 33.0
71 30.0 28.7 43.1

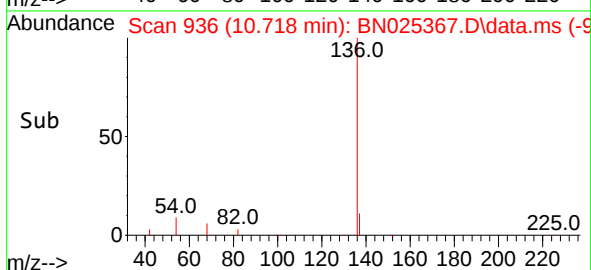
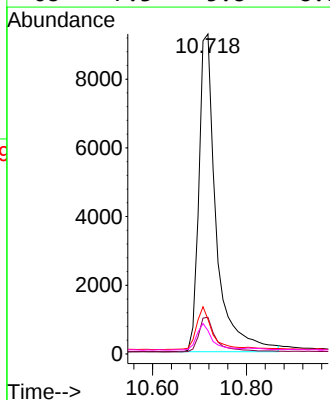
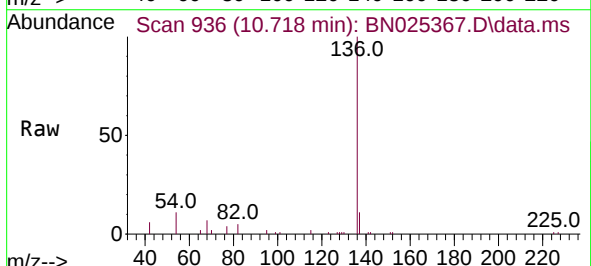
Manual Integrations
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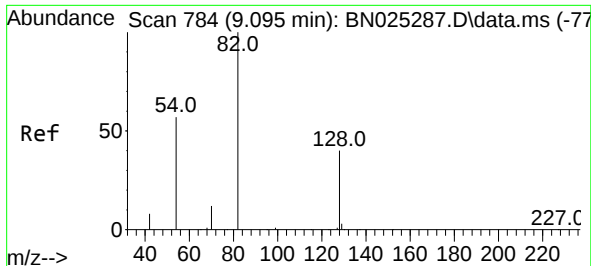
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.718 min Scan# 936
Delta R.T. 0.011 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

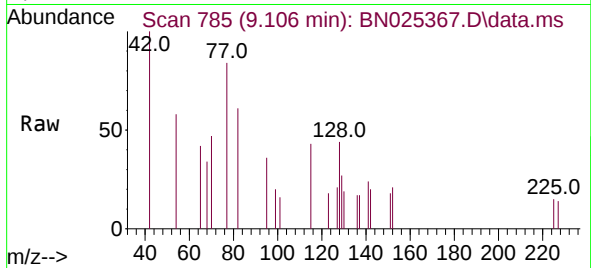
Tgt Ion:136 Resp: 23777
Ion Ratio Lower Upper
136 100
137 11.5 9.4 14.2
54 10.9 8.5 12.7
68 7.3 5.8 8.8





#8
Nitrobenzene-d5
Concen: 0.031 ng
RT: 9.106 min Scan# 71
Delta R.T. 0.032 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

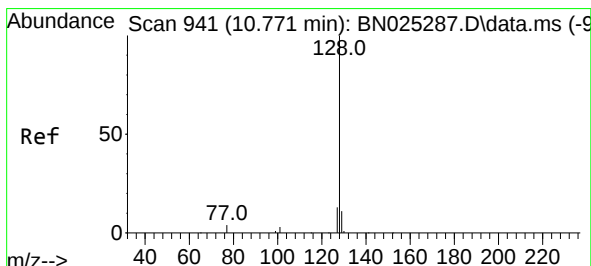
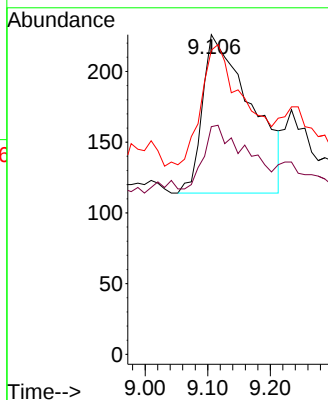
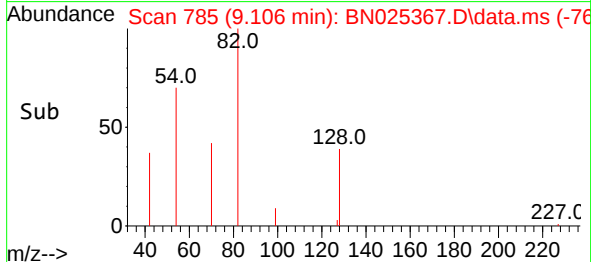
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL



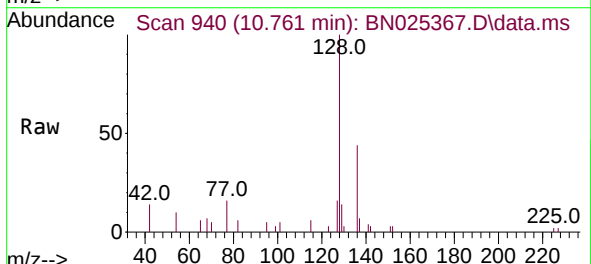
Tgt Ion: 82 Resp: 602
Ion Ratio Lower Upper
82 100
128 71.2 35.3 52.9
54 95.1 48.7 73.1

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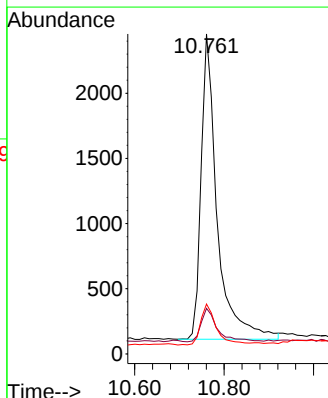
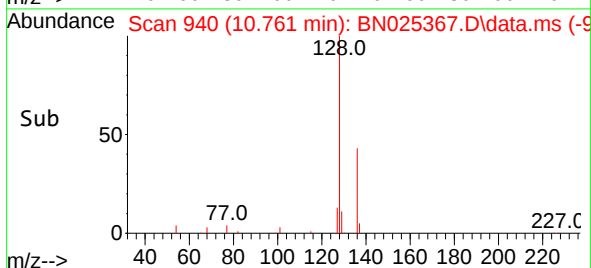
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023

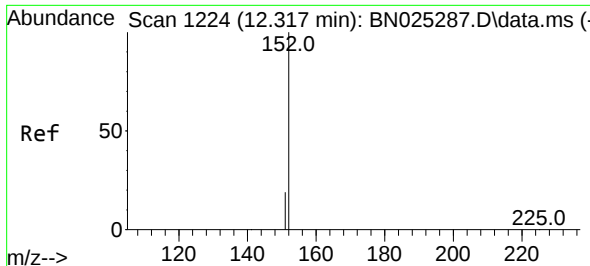


#9
Naphthalene
Concen: 0.096 ng
RT: 10.761 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05



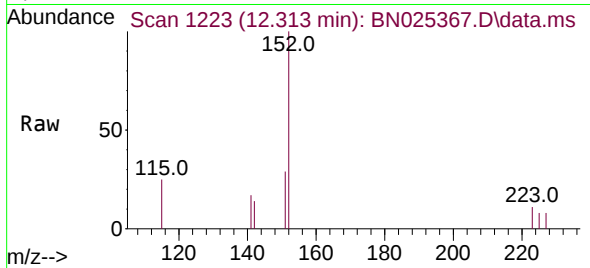
Tgt Ion:128 Resp: 5827
Ion Ratio Lower Upper
128 100
129 14.2 9.4 14.2
127 15.6 11.0 16.6





#11
2-Methylnaphthalene-d10
Concen: 0.042 ng
RT: 12.313 min Scan# 11
Delta R.T. 0.012 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

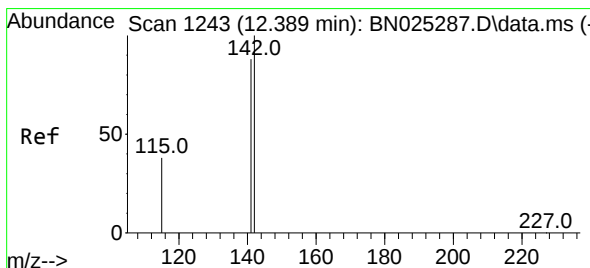
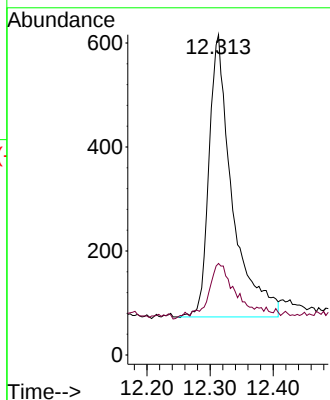
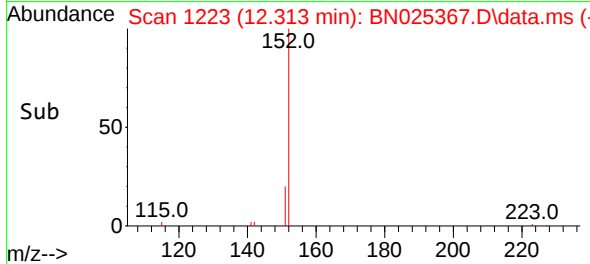
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL



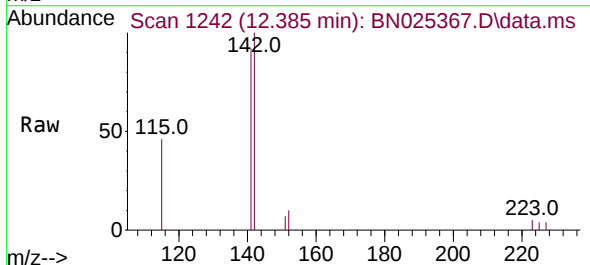
Tgt Ion:152 Resp: 138
Ion Ratio Lower Upper
152 100
151 19.8 16.4 24.6

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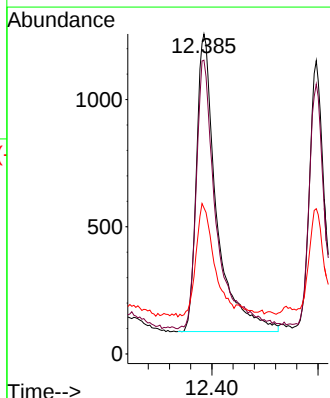
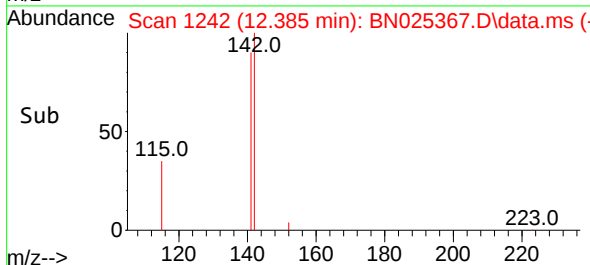
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023

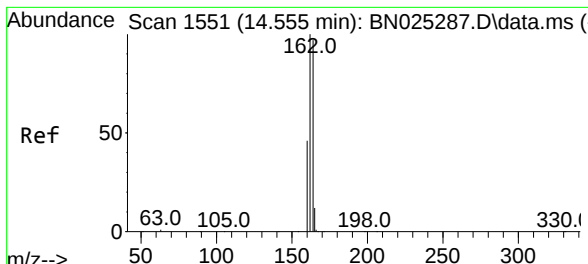


#12
2-Methylnaphthalene
Concen: 0.071 ng
RT: 12.385 min Scan# 1242
Delta R.T. 0.008 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05



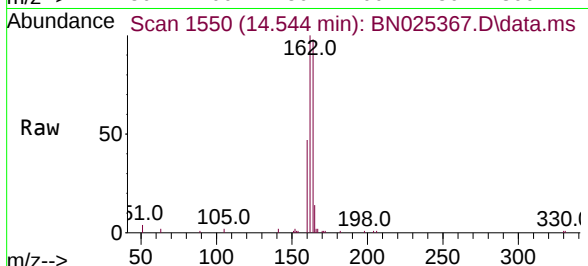
Tgt Ion:142 Resp: 3078
Ion Ratio Lower Upper
142 100
141 91.8 70.5 105.7
115 45.6 31.6 47.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.544 min Scan# 1551
Delta R.T. 0.000 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

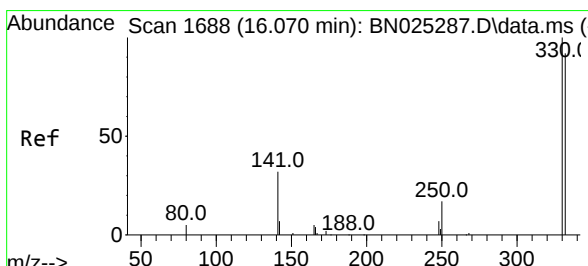
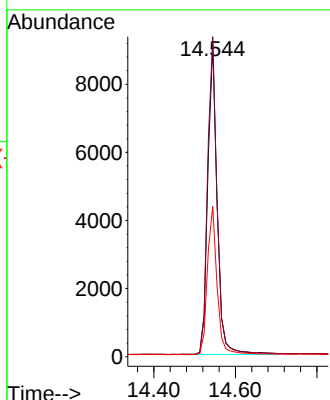
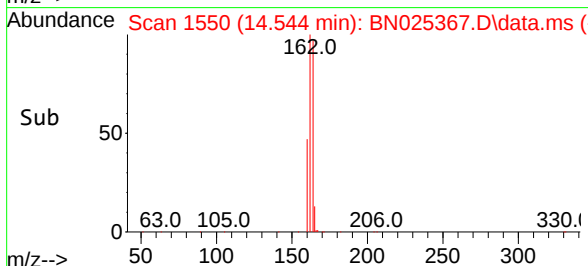
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL



Tgt Ion:164 Resp: 1463
Ion Ratio Lower Upper
164 100
162 102.5 82.1 123.1
160 48.1 38.3 57.5

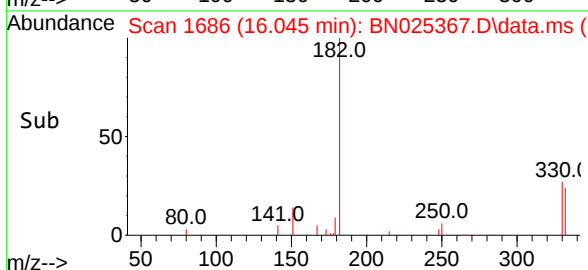
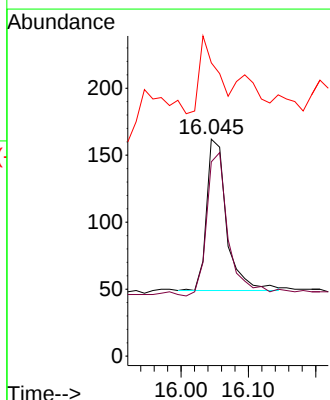
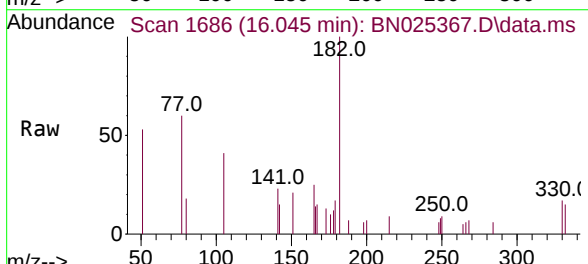
Manual Integrations
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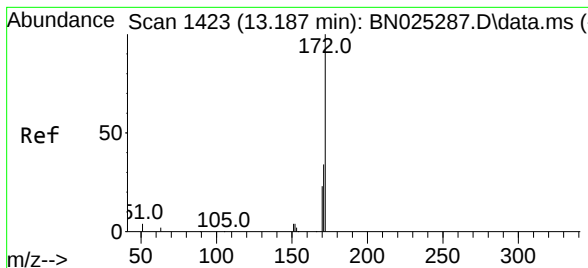
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#14
2,4,6-Tribromophenol
Concen: 0.031 ng
RT: 16.045 min Scan# 1686
Delta R.T. 0.000 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

Tgt Ion:330 Resp: 234
Ion Ratio Lower Upper
330 100
332 102.1 77.4 116.0
141 0.0 28.9 43.3#





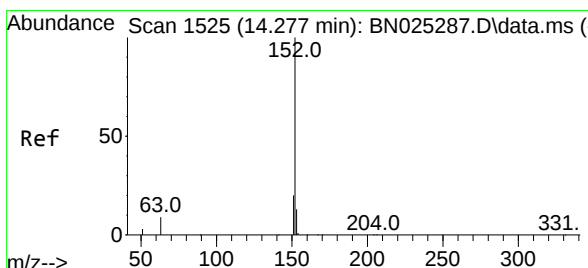
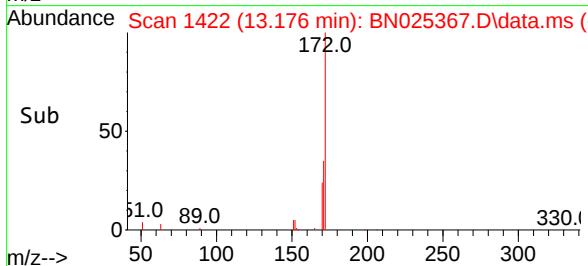
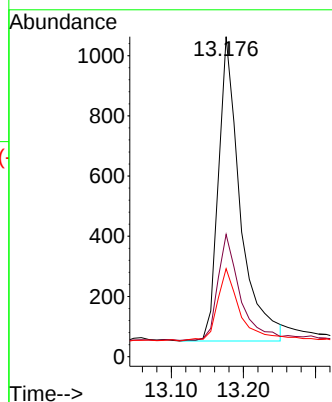
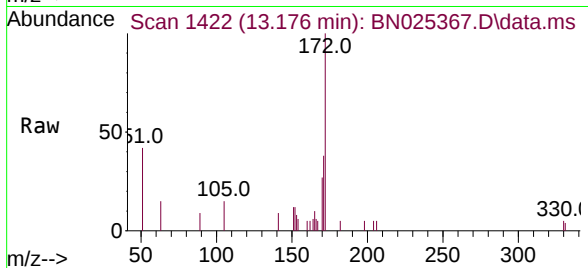
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2-Fluorobiphenyl
Concen: 0.042 ng
RT: 13.176 min Scan# 1423
Delta R.T. 0.000 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL

Tgt Ion:172 Resp: 2119
Ion Ratio Lower Upper
172 100
171 38.2 27.9 41.9
170 27.5 19.0 28.4

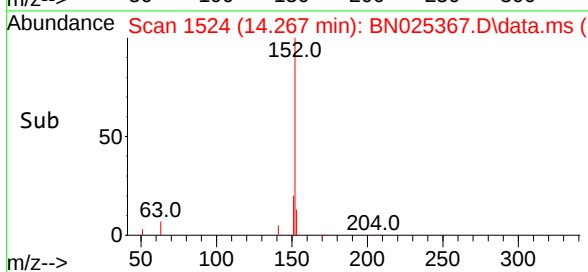
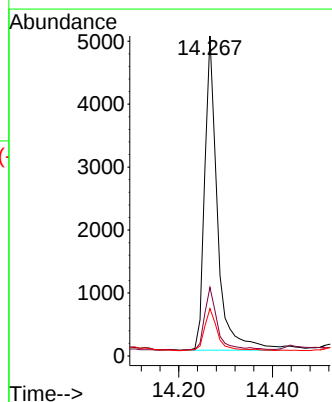
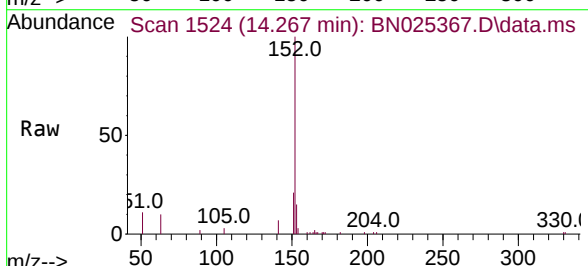
Manual Integrations
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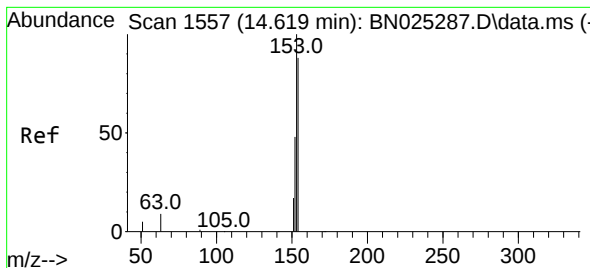
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#16
Acenaphthylene
Concen: 0.144 ng
RT: 14.267 min Scan# 1524
Delta R.T. 0.000 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

Tgt Ion:152 Resp: 9431
Ion Ratio Lower Upper
152 100
151 20.7 16.1 24.1
153 13.9 10.3 15.5





#17

Acenaphthene

Concen: 0.103 ng

RT: 14.609 min Scan# 1556

Delta R.T. 0.000 min

Lab File: BN025367.D

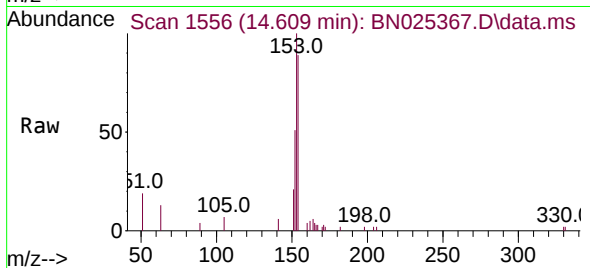
Acq: 09 May 2023 15:05

Instrument :

BNA_N

ClientSampleId :

ZONE-D-3-6-05022023DL



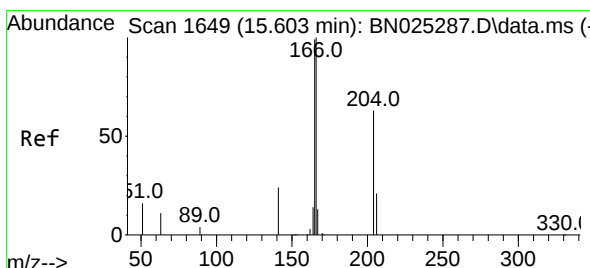
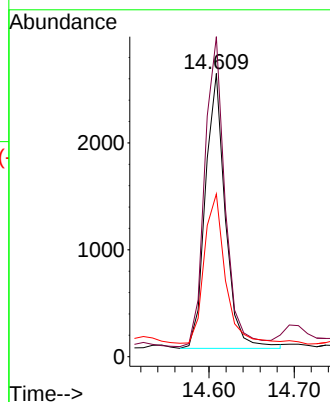
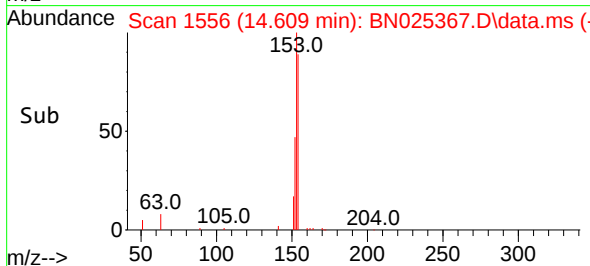
Tgt Ion:	154	Resp:	4180
Ion	Ratio	Lower	Upper
154	100		
153	113.6	91.3	136.9
152	58.7	44.7	67.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/10/2023

Supervised By :Jagrut Upadhyay 05/10/2023



#18

Fluorene

Concen: 0.104 ng

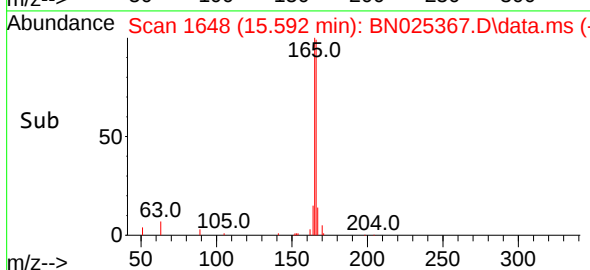
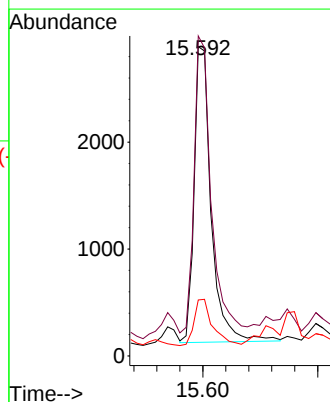
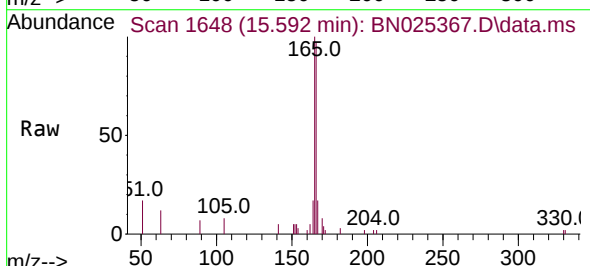
RT: 15.592 min Scan# 1648

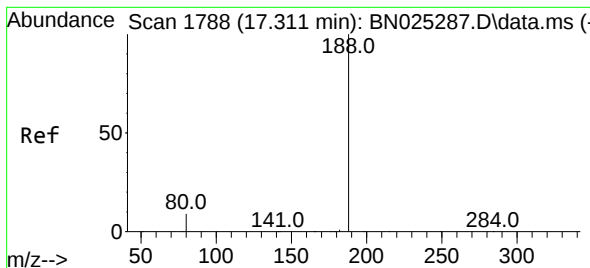
Delta R.T. 0.000 min

Lab File: BN025367.D

Acq: 09 May 2023 15:05

Tgt Ion:	166	Resp:	5799
Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.0	118.4
167	16.7	10.3	15.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.286 min Scan# 1786

Delta R.T. -0.012 min

Lab File: BN025367.D

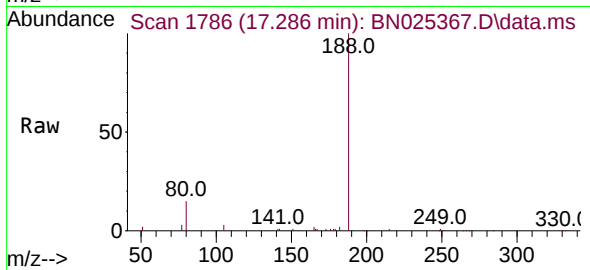
Acq: 09 May 2023 15:05

Instrument :

BNA_N

ClientSampleId :

ZONE-D-3-6-05022023DL



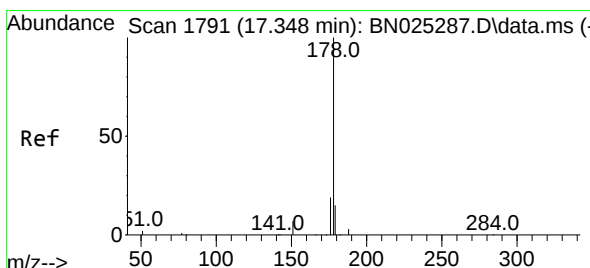
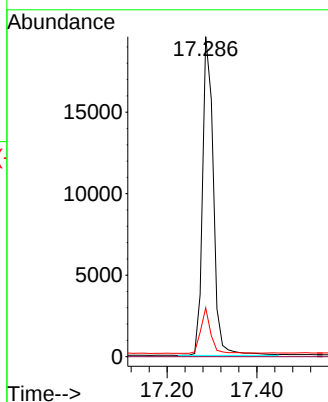
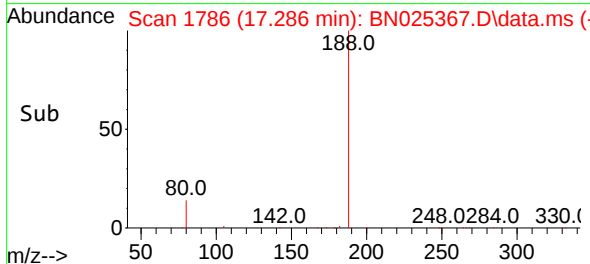
Tgt Ion:	188	Resp:	32729
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	15.3	8.0	12.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/10/2023

Supervised By :Jagrut Upadhyay 05/10/2023



#25

Phenanthrene

Concen: 1.207 ng

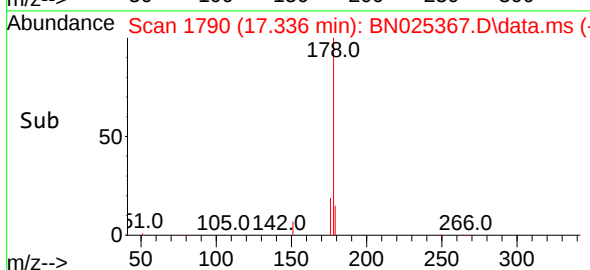
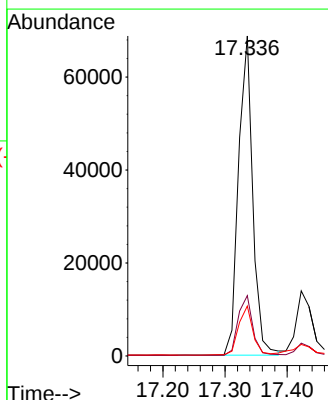
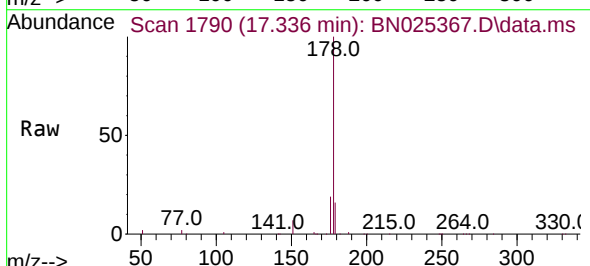
RT: 17.336 min Scan# 1790

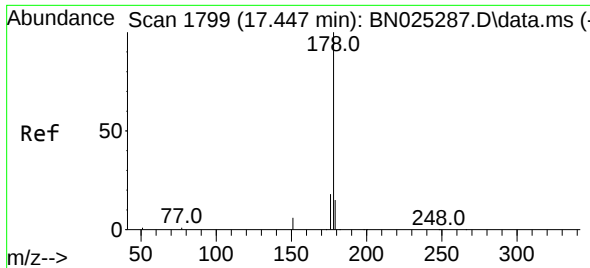
Delta R.T. 0.000 min

Lab File: BN025367.D

Acq: 09 May 2023 15:05

Tgt Ion:	178	Resp:	109300
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.5	23.3
179	15.4	12.4	18.6





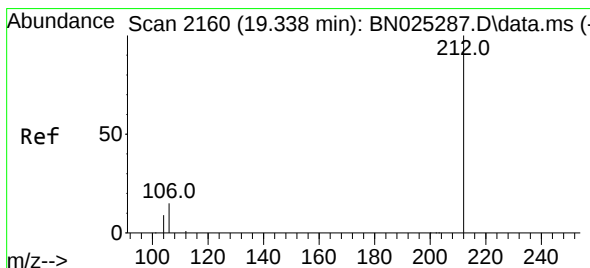
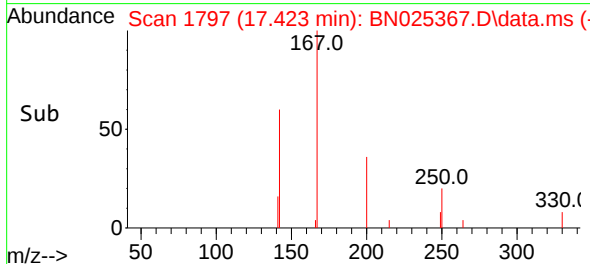
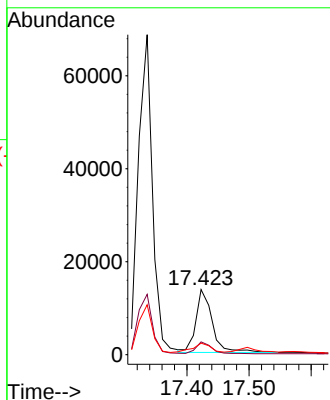
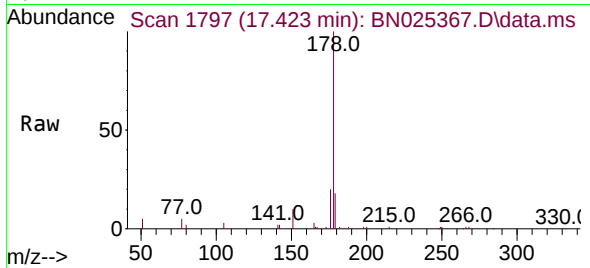
#26
 Anthracene
 Concen: 0.294 ng
 RT: 17.423 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BN025367.D
 Acq: 09 May 2023 15:05

Instrument :
 BNA_N
 ClientSampleId :
 ZONE-D-3-6-05022023DL

Tgt Ion:178 Resp: 2494
 Ion Ratio Lower Upper
 178 100
 176 17.8 14.9 22.3
 179 15.8 12.0 18.0

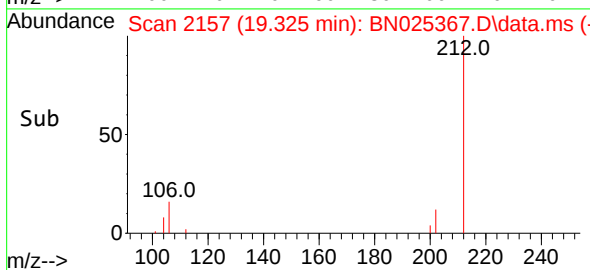
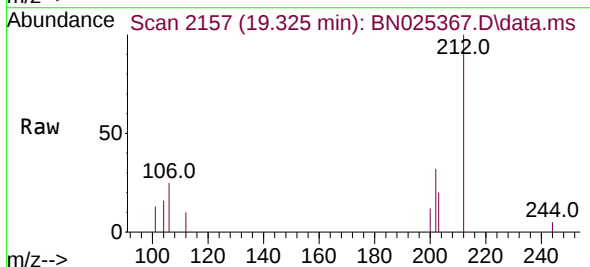
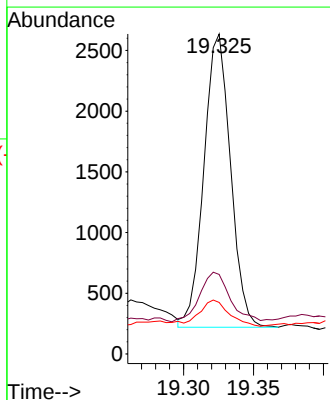
Manual Integrations
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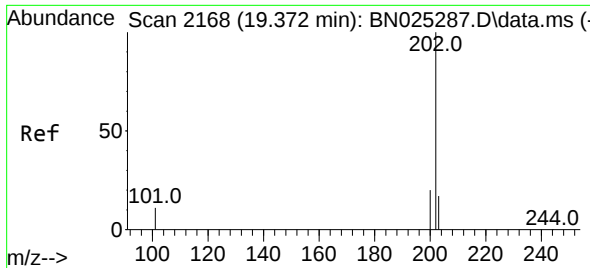
Reviewed By :Christian Giraldo 05/10/2023
 Supervised By :Jagrut Upadhyay 05/10/2023



#27
 Fluoranthene-d10
 Concen: 0.039 ng
 RT: 19.325 min Scan# 2157
 Delta R.T. -0.004 min
 Lab File: BN025367.D
 Acq: 09 May 2023 15:05

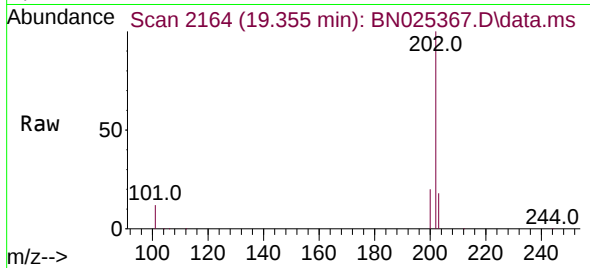
Tgt Ion:212 Resp: 3196
 Ion Ratio Lower Upper
 212 100
 106 19.3 12.6 19.0#
 104 9.7 7.0 10.6





#28
Fluoranthene
Concen: 2.077 ng
RT: 19.355 min Scan# 2164
Delta R.T. -0.004 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

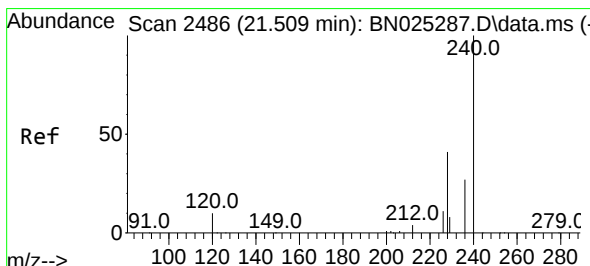
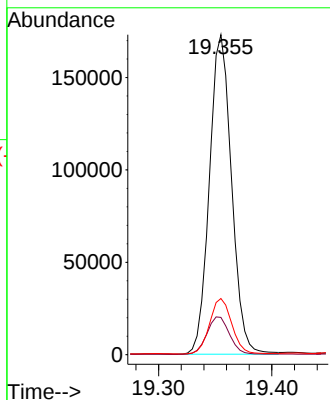
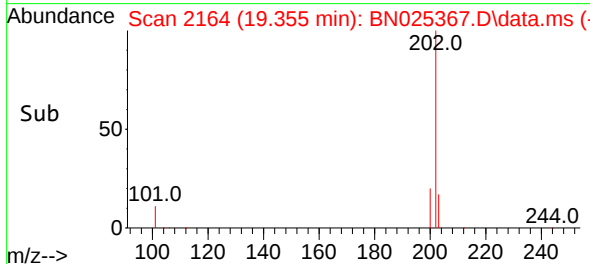
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL



Tgt Ion:202 Resp: 234969
Ion Ratio Lower Upper
202 100
101 12.0 9.8 14.8
203 17.2 13.5 20.3

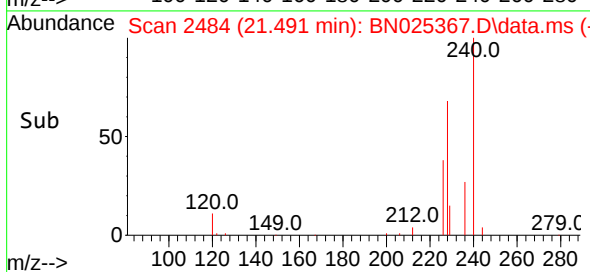
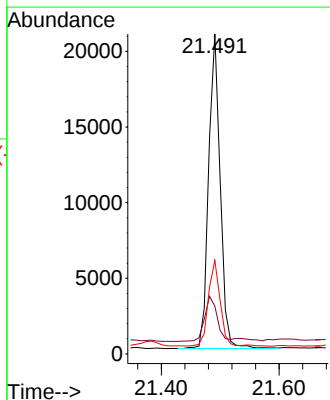
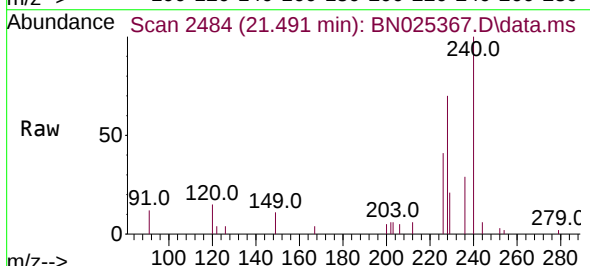
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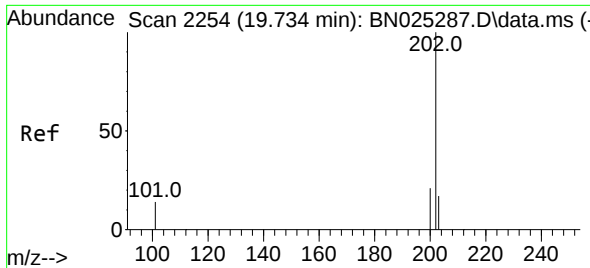
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.491 min Scan# 2484
Delta R.T. 0.005 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

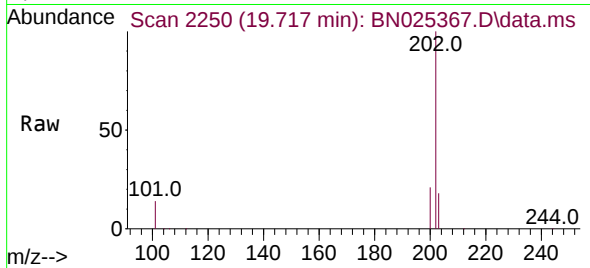
Tgt Ion:240 Resp: 28380
Ion Ratio Lower Upper
240 100
120 14.9 10.3 15.5
236 29.2 22.3 33.5





#30
 Pyrene
 Concen: 2.115 ng
 RT: 19.717 min Scan# 21
 Delta R.T. -0.008 min
 Lab File: BN025367.D
 Acq: 09 May 2023 15:05

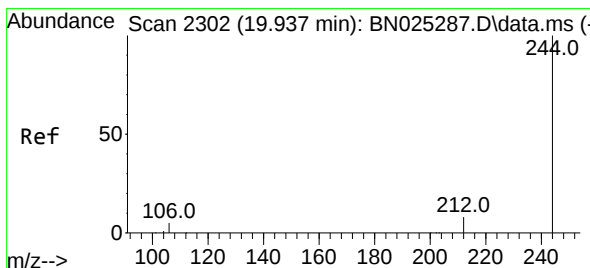
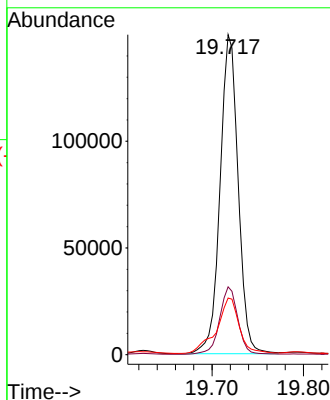
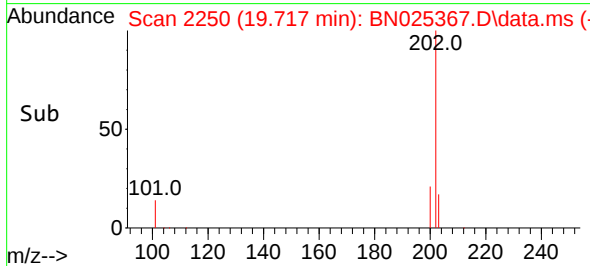
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-D-3-6-05022023DL



Tgt Ion:202 Resp: 20517
 Ion Ratio Lower Upper
 202 100
 200 21.1 16.8 25.2
 203 21.8 14.4 21.6

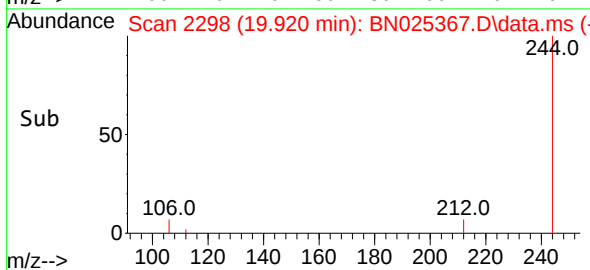
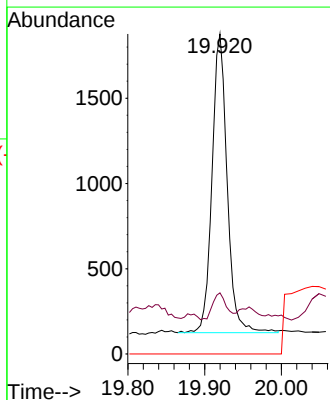
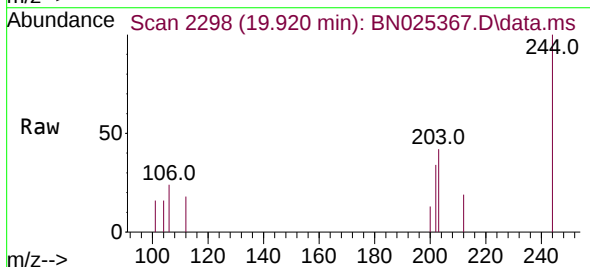
Manual Integrations
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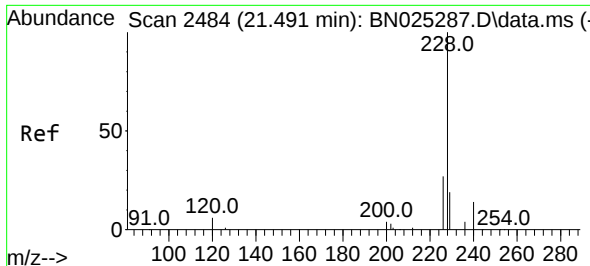
Reviewed By :Christian Giraldo 05/10/2023
 Supervised By :Jagrut Upadhyay 05/10/2023



#31
 Terphenyl-d14
 Concen: 0.042 ng
 RT: 19.920 min Scan# 2298
 Delta R.T. -0.004 min
 Lab File: BN025367.D
 Acq: 09 May 2023 15:05

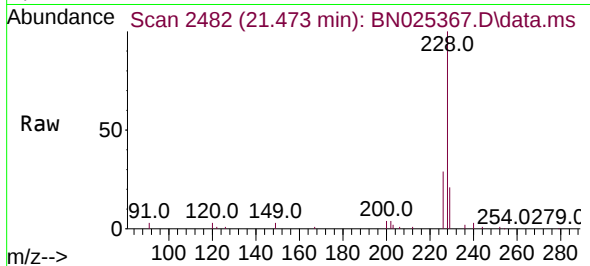
Tgt Ion:244 Resp: 2403
 Ion Ratio Lower Upper
 244 100
 212 19.1 7.1 10.7#
 122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 1.238 ng
RT: 21.473 min Scan# 2482
Delta R.T. 0.005 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

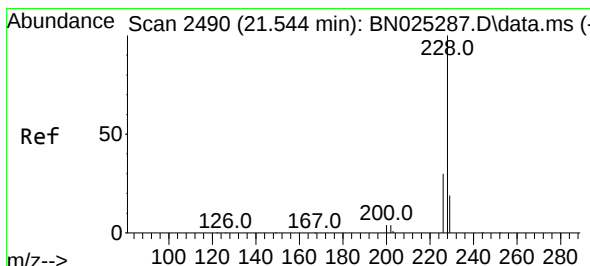
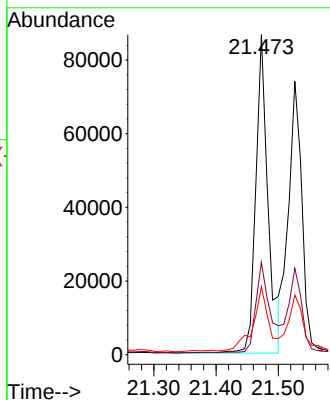
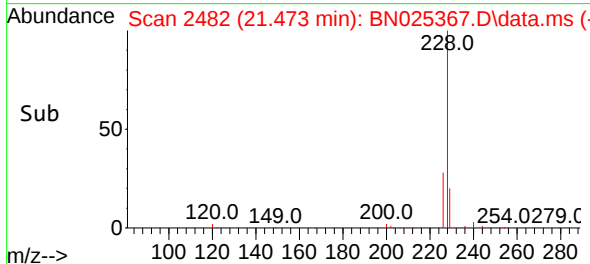
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL



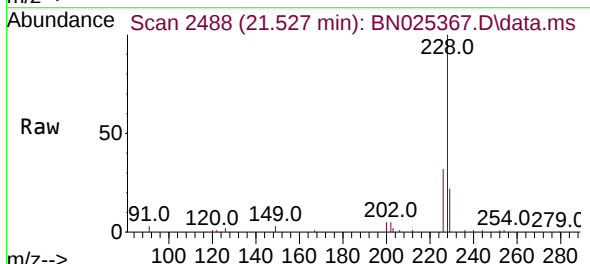
Tgt Ion:228 Resp: 11876
Ion Ratio Lower Upper
228 100
226 28.8 22.5 33.7
229 21.3 16.2 24.2

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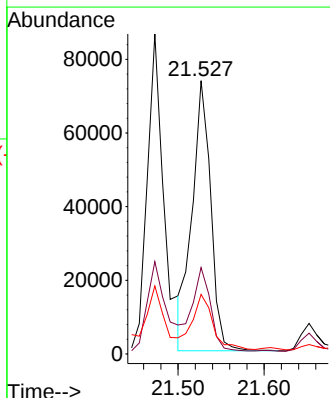
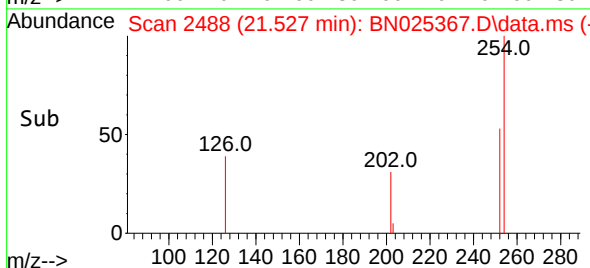
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023

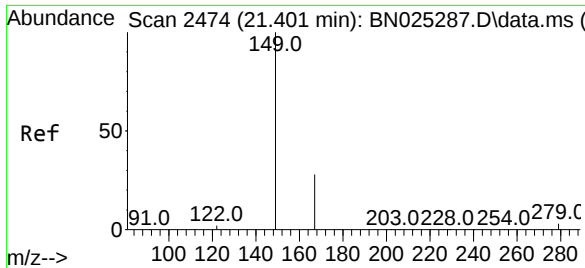


#33
Chrysene
Concen: 1.157 ng
RT: 21.527 min Scan# 2488
Delta R.T. 0.005 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05



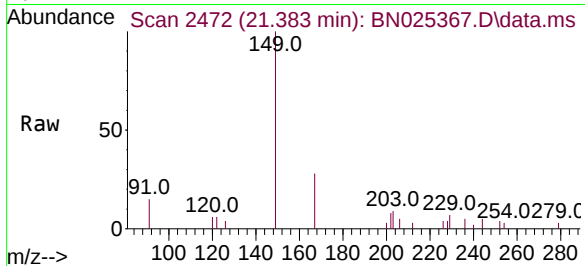
Tgt Ion:228 Resp: 110497
Ion Ratio Lower Upper
228 100
226 31.6 24.6 36.8
229 21.8 16.2 24.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.235 ng
RT: 21.383 min Scan# 2474
Delta R.T. 0.005 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

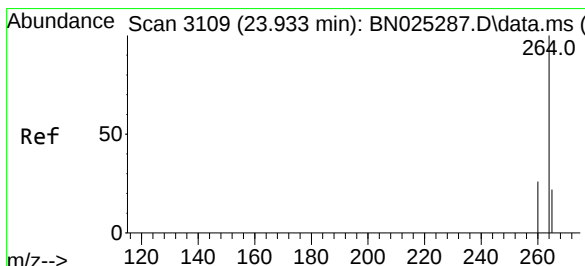
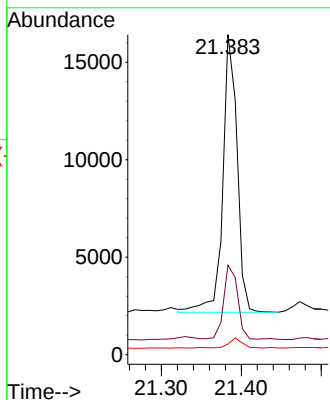
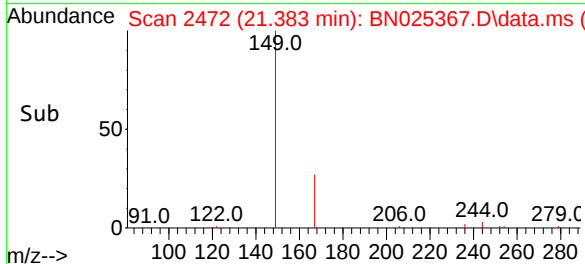
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL



Tgt Ion:149 Resp: 17698
Ion Ratio Lower Upper
149 100
167 25.7 22.2 33.4
279 3.7 2.6 4.0

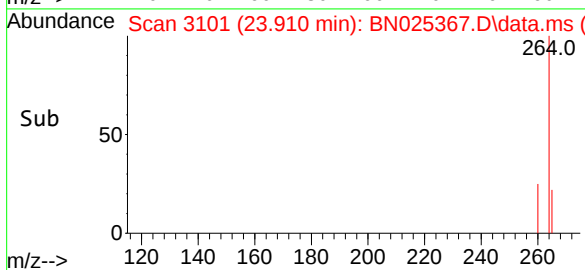
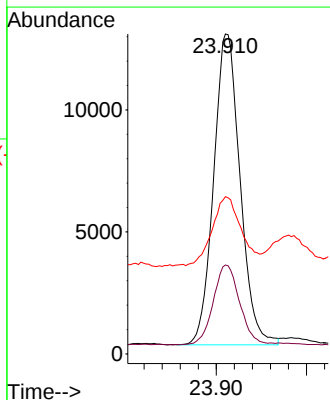
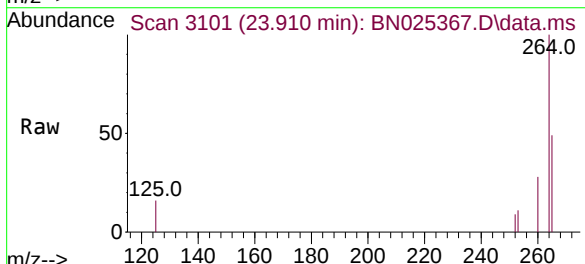
Manual Integrations
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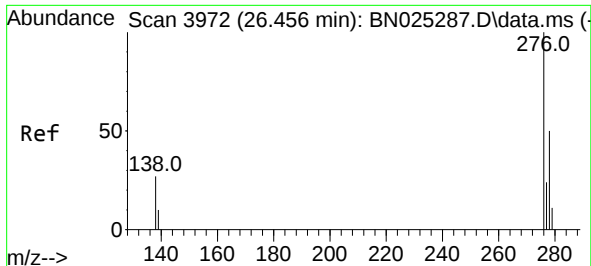
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.910 min Scan# 3101
Delta R.T. -0.001 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

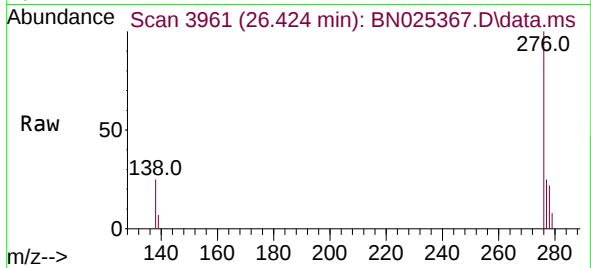
Tgt Ion:264 Resp: 25948
Ion Ratio Lower Upper
264 100
260 27.8 21.5 32.3
265 49.2 46.2 69.4





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.559 ng m
RT: 26.424 min Scan# 3972
Delta R.T. -0.033 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

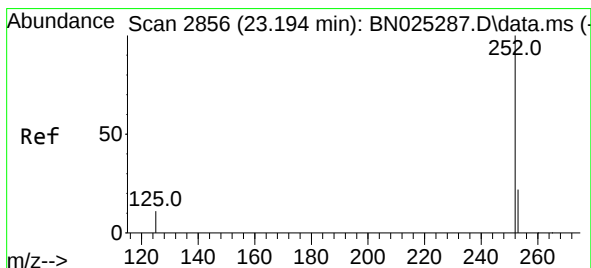
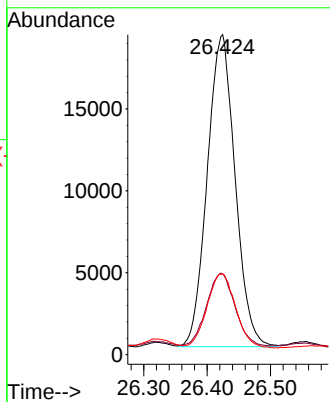
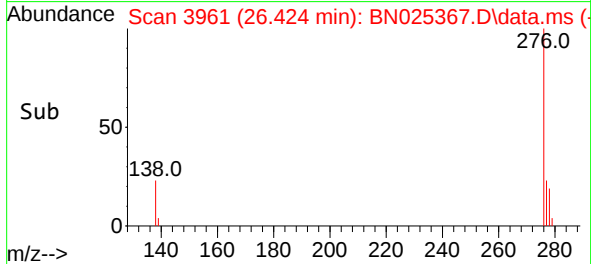
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL



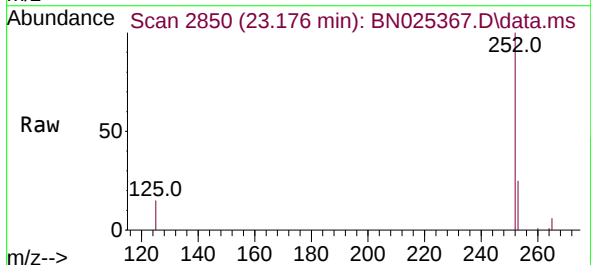
Tgt Ion:276 Resp: 58148
Ion Ratio Lower Upper
276 100
138 23.5 22.5 33.7
277 24.4 19.8 29.6

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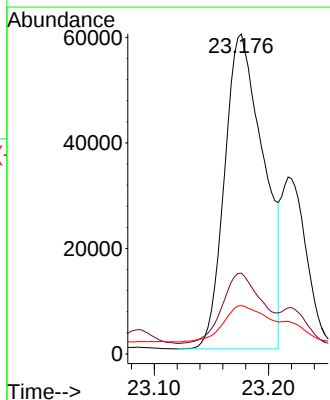
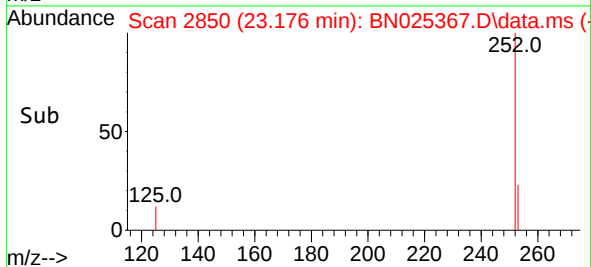
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023

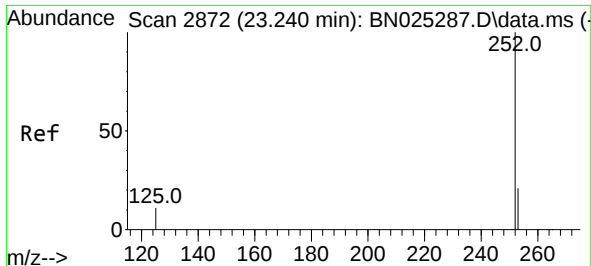


#37
Benzo(b)fluoranthene
Concen: 1.725 ng
RT: 23.176 min Scan# 2850
Delta R.T. 0.005 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05



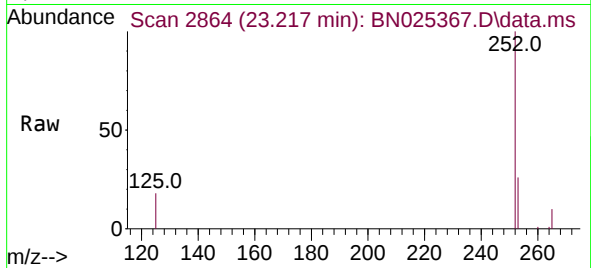
Tgt Ion:252 Resp: 141923
Ion Ratio Lower Upper
252 100
253 25.2 20.8 31.2
125 15.1 13.4 20.2





#38
Benzo(k)fluoranthene
Concen: 0.581 ng m
RT: 23.217 min Scan# 21
Delta R.T. -0.001 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

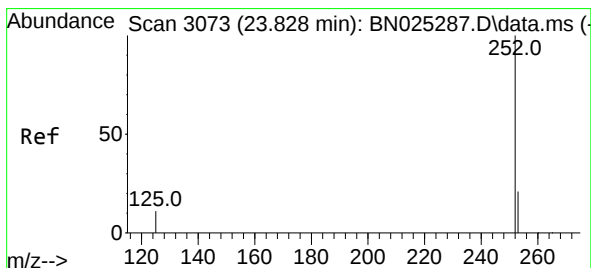
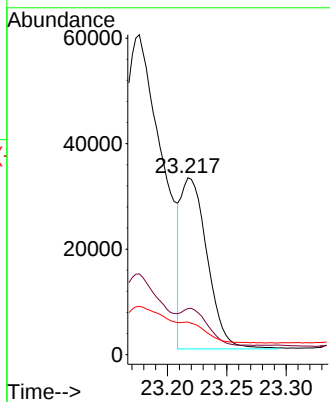
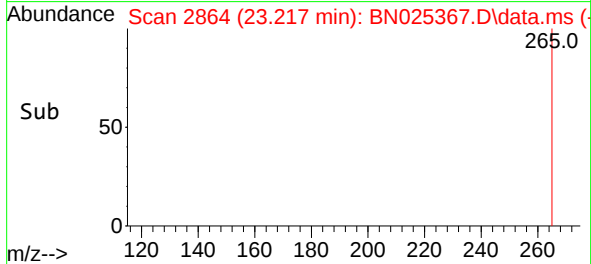
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL



Tgt Ion:252 Resp: 5001
Ion Ratio Lower Upper
252 100
253 26.1 20.6 30.8
125 18.4 13.1 19.7

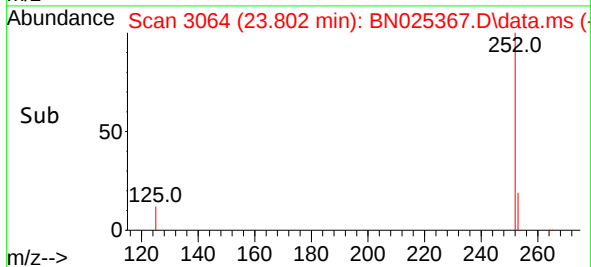
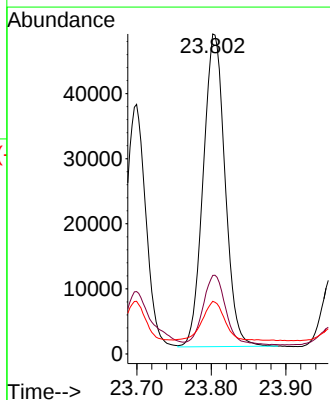
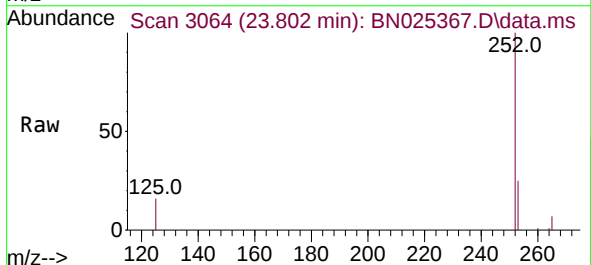
Manual Integrations
APPROVED

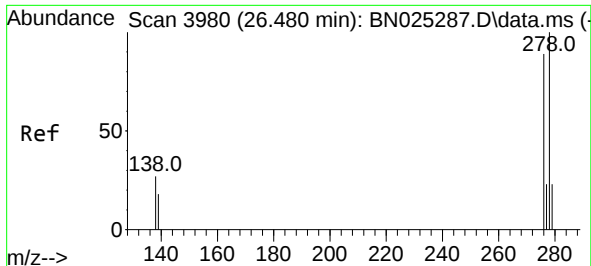
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#39
Benzo(a)pyrene
Concen: 1.161 ng
RT: 23.802 min Scan# 3064
Delta R.T. -0.010 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

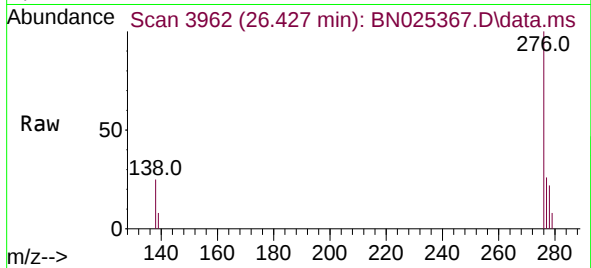
Tgt Ion:252 Resp: 97807
Ion Ratio Lower Upper
252 100
253 24.6 21.4 32.0
125 16.4 15.4 23.2





#40
Dibenzo(a,h)anthracene
Concen: 0.171 ng
RT: 26.427 min Scan# 3980
Delta R.T. -0.045 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05

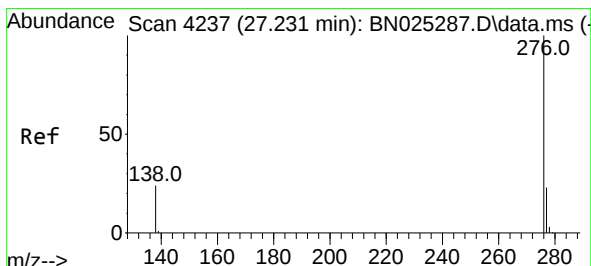
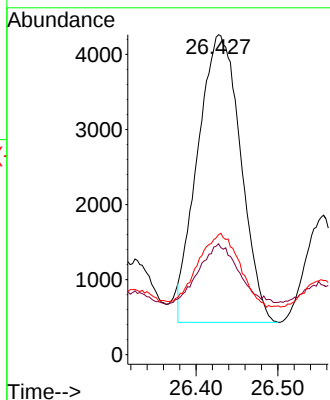
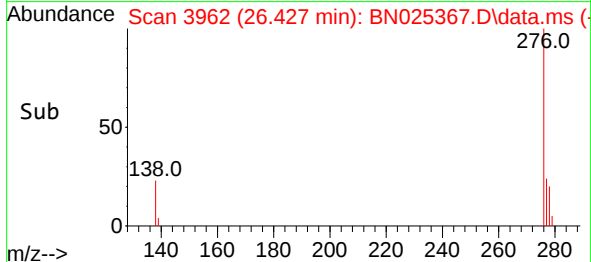
Instrument :
BNA_N
ClientSampleId :
ZONE-D-3-6-05022023DL



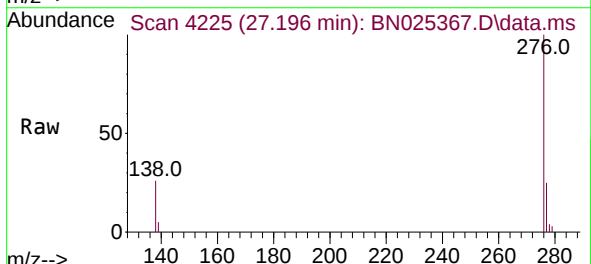
Tgt Ion:278 Resp: 14048
Ion Ratio Lower Upper
278 100
139 34.7 17.6 26.4
279 37.5 21.6 32.4

Manual Integrations
APPROVED

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



#41
Benzo(g,h,i)perylene
Concen: 0.651 ng
RT: 27.196 min Scan# 4225
Delta R.T. -0.039 min
Lab File: BN025367.D
Acq: 09 May 2023 15:05



Tgt Ion:276 Resp: 58768
Ion Ratio Lower Upper
276 100
277 25.2 20.1 30.1
138 26.0 21.0 31.6

