

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
 Data File : BN025332.D
 Acq On : 08 May 2023 14:44
 Operator : CG/JU
 Sample : 02588-03
 Misc :
 ALS Vial : 5 Sample Multiplier: 50

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

Manual Integrations
 APPROVED

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

Quant Time: May 09 04:02:17 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 08 18:27:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.904	152	229070	20.000	ng	0.00
7) Naphthalene-d8	10.707	136	744312	20.000	ng	-0.01
13) Acenaphthene-d10	14.544	164	490257	20.000	ng	0.00
19) Phenanthrene-d10	17.298	188	1150062	20.000	ng	0.00
29) Chrysene-d12	21.500	240	1138872	20.000	ng	0.00
35) Perylene-d12	23.927	264	1417366	20.000	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.455	112	1558142	139.726	ng	0.00
5) Phenol-d6	7.066	99	2229407	159.326	ng	0.00
8) Nitrobenzene-d5	9.063	82	1071571	87.516	ng	-0.02
11) 2-Methylnaphthalene-d10	12.309	152	4	0.000	ng	0.00
14) 2,4,6-Tribromophenol	16.045	330	792205	158.044	ng	-0.01
15) 2-Fluorobiphenyl	13.165	172	2142210	63.709	ng	-0.01
27) Fluoranthene-d10	19.329	212	28	0.000	ng	0.00
31) Terphenyl-d14	19.928	244	2946080	64.148	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.760	128	7816	0.205	ng	98
12) 2-Methylnaphthalene	12.381	142	3149	0.117	ng	94
16) Acenaphthylene	14.266	152	10571	0.241	ng	98
17) Acenaphthene	14.608	154	3120	0.114	ng	96
18) Fluorene	15.603	166	5933	0.159	ng	# 95
25) Phenanthrene	17.336	178	107575	1.690	ng	99
26) Anthracene	17.435	178	26165	0.439	ng	97
28) Fluoranthene	19.363	202	266364	3.350	ng	99
30) Pyrene	19.726	202	235915	3.030	ng	# 96
32) Benzo(a)anthracene	21.482	228	144518	1.877	ng	99
33) Chrysene	21.535	228	125221	1.634	ng	98
34) Bis(2-ethylhexyl)phtha...	21.392	149	25059	0.415	ng	97
36) Indeno(1,2,3-cd)pyrene	26.442	276	92869	0.817	ng	95
37) Benzo(b)fluoranthene	23.185	252	179847	2.001	ng	97
38) Benzo(k)fluoranthene	23.232	252	71965m	0.765	ng	
39) Benzo(a)pyrene	23.813	252	137589	1.495	ng	95
40) Dibenzo(a,h)anthracene	26.445	278	23938	0.267	ng	# 80
41) Benzo(g,h,i)perylene	27.217	276	89536	0.908	ng	100

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

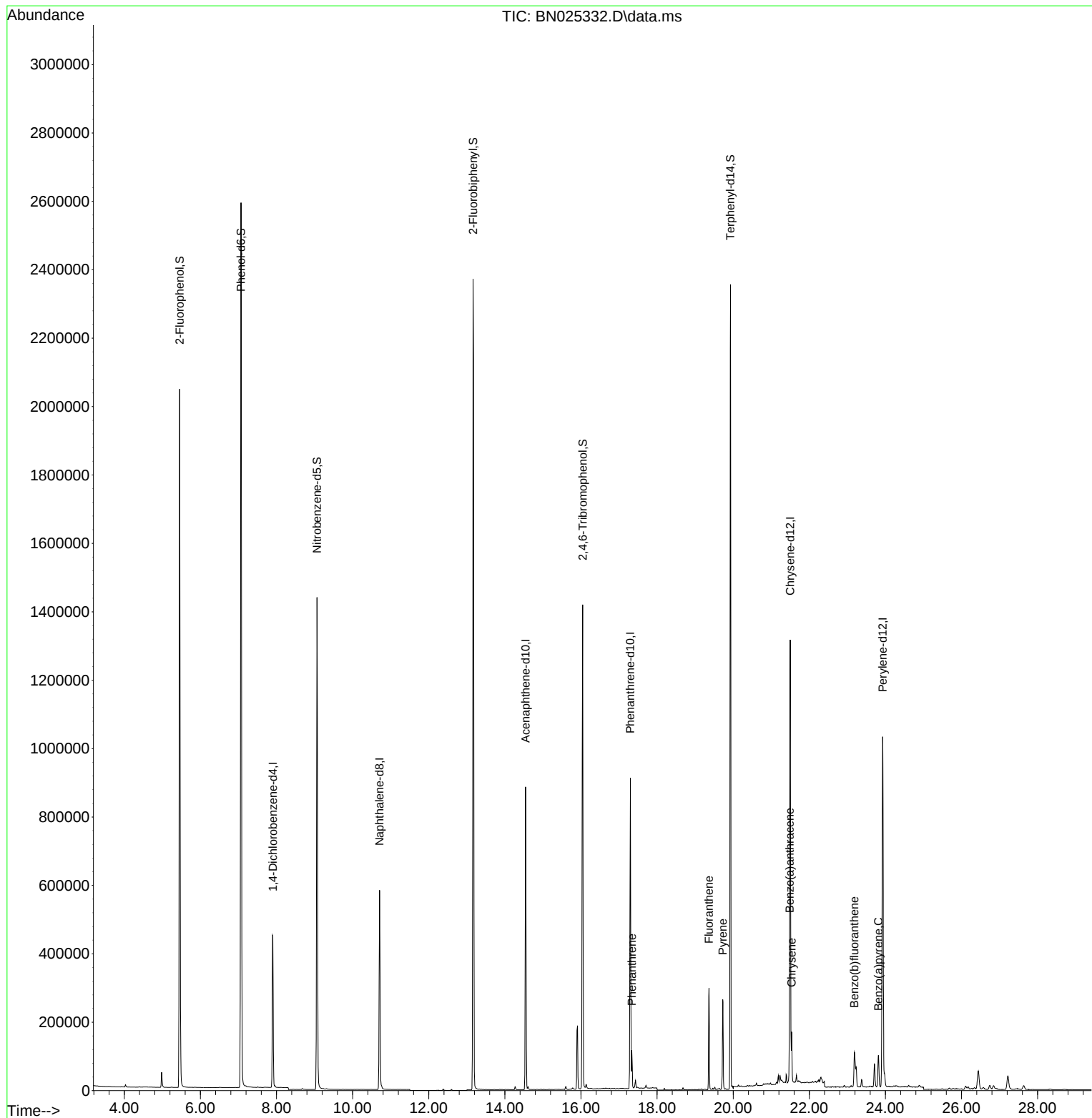
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050823\
Data File : BN025332.D
Acq On : 08 May 2023 14:44
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ALS Vial : 5 Sample Multiplier: 50

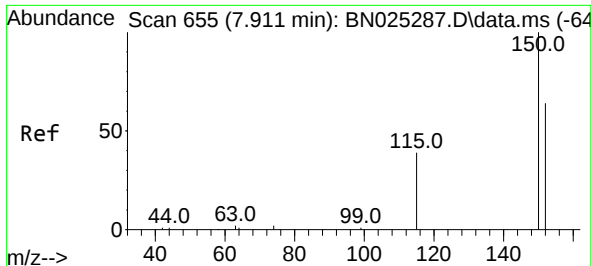
Instrument :
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Quant Time: May 09 04:02:17 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN050623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 08 18:27:02 2023
Response via : Initial Calibration

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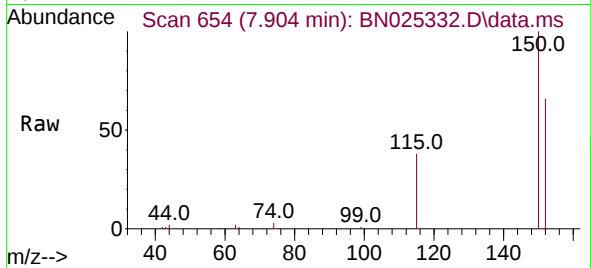
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

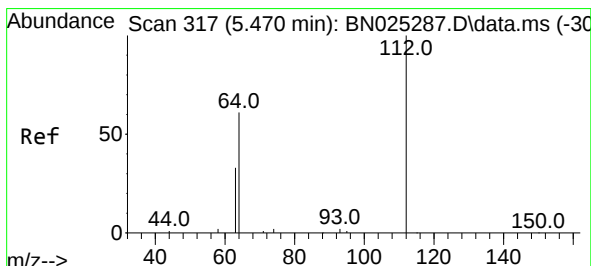
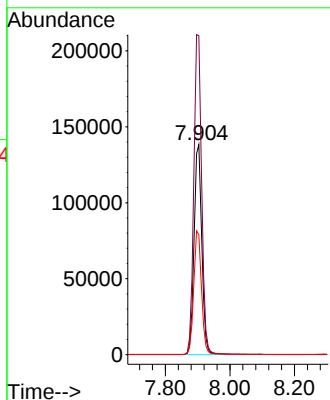
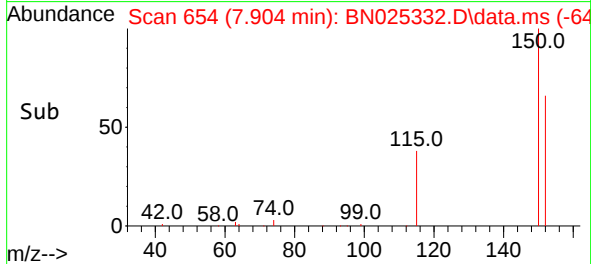
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023



Tgt Ion:152 Resp: 229070
Ion Ratio Lower Upper
152 100
150 151.9 123.8 185.8
115 57.2 52.9 79.3

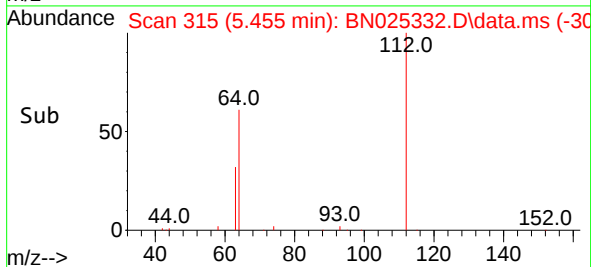
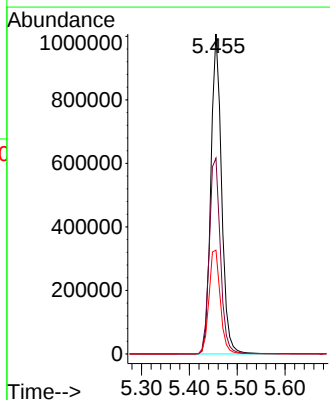
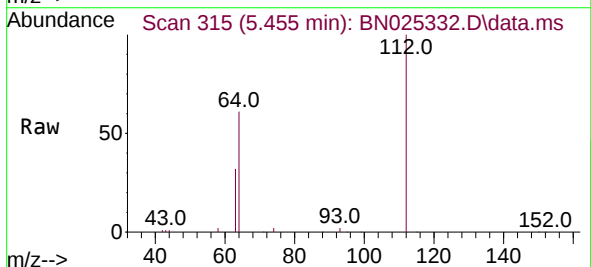
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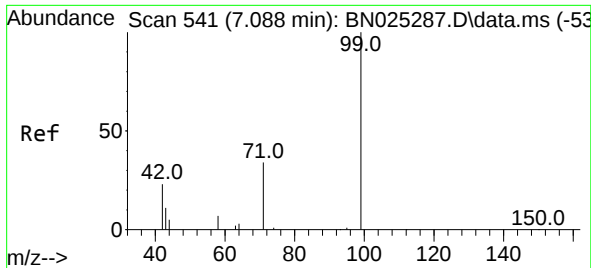
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#4
2-Fluorophenol
Concen: 139.726 ng
RT: 5.455 min Scan# 315
Delta R.T. -0.007 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

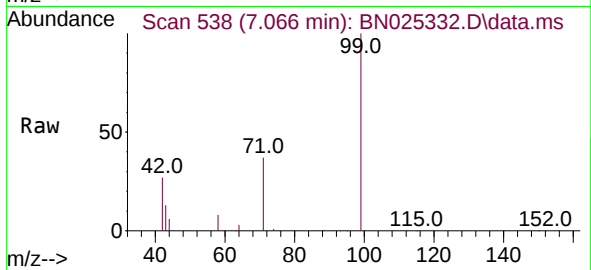
Tgt Ion:112 Resp: 1558142
Ion Ratio Lower Upper
112 100
64 64.1 51.5 77.3
63 34.4 27.8 41.6





#5
Phenol-d6
Concen: 159.326 ng
RT: 7.066 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

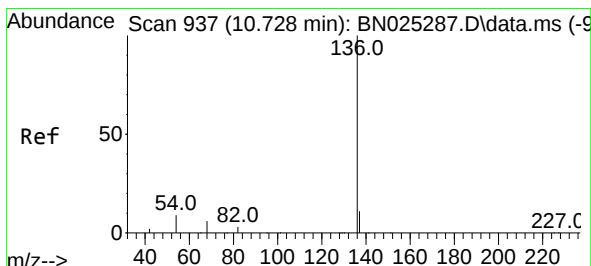
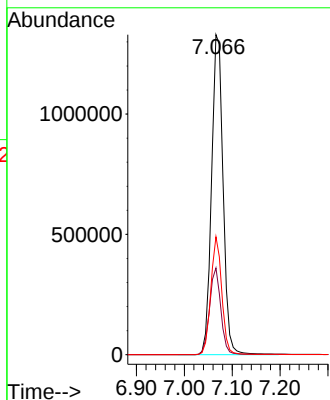
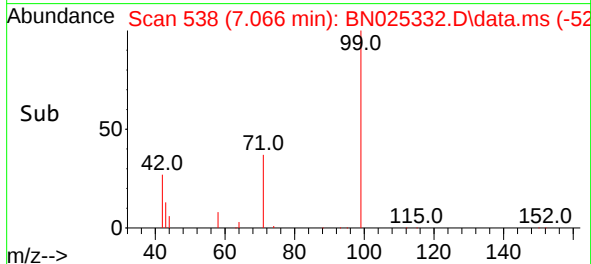
Instrument :
BNA_N
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ZONE-B-6-9-05012023



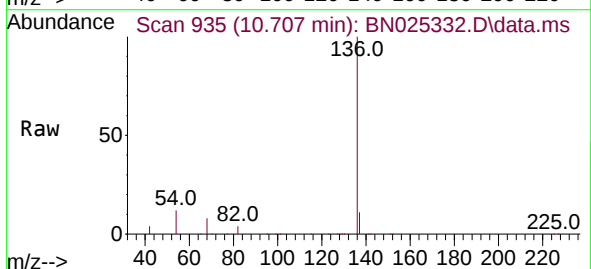
Tgt Ion: 99 Resp: 222940
Ion Ratio Lower Upper
99 100
42 26.3 22.0 33.0
71 35.2 28.7 43.1

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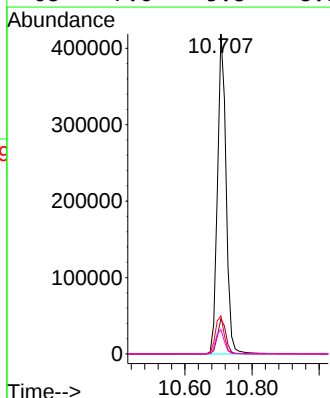
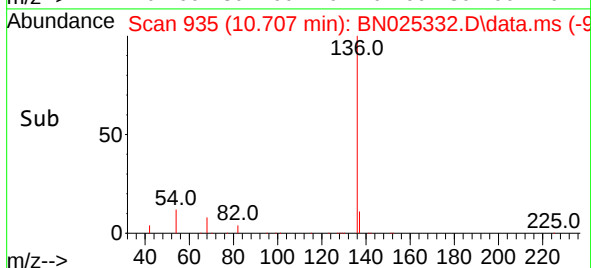
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

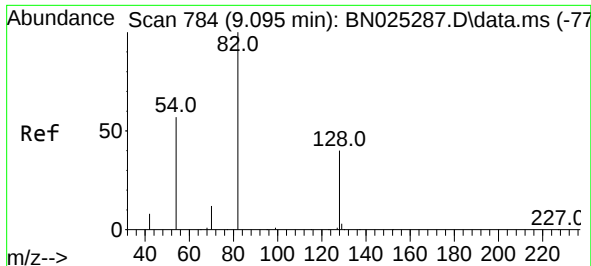


#7
Naphthalene-d8
Concen: 20.000 ng
RT: 10.707 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44



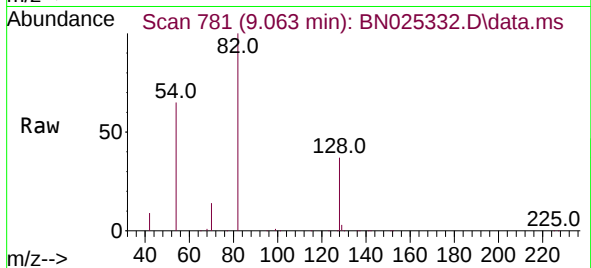
Tgt Ion:136 Resp: 744312
Ion Ratio Lower Upper
136 100
137 10.9 9.4 14.2
54 11.9 8.5 12.7
68 7.6 5.8 8.8





#8
Nitrobenzene-d5
Concen: 87.516 ng
RT: 9.063 min Scan# 784
Delta R.T. -0.022 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

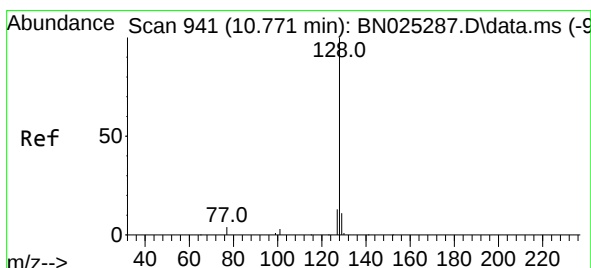
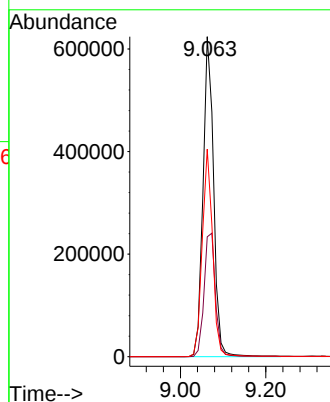
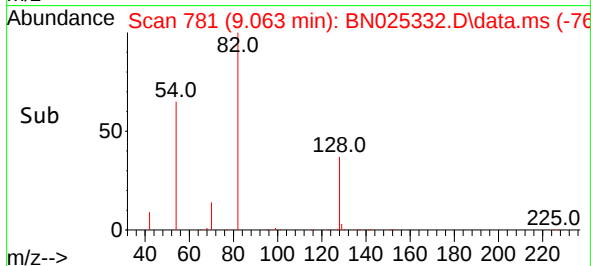
Instrument :
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ClientSampleId :
ZONE-B-6-9-05012023



Tgt Ion: 82 Resp: 107157
Ion Ratio Lower Upper
82 100
128 37.4 35.3 52.9
54 64.9 48.7 73.1

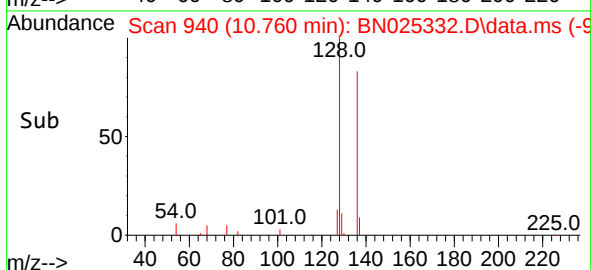
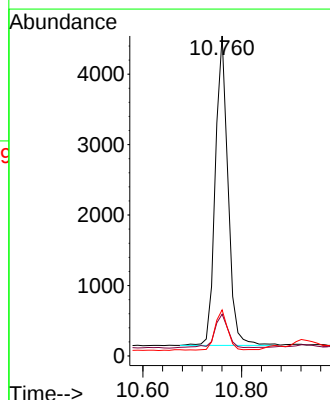
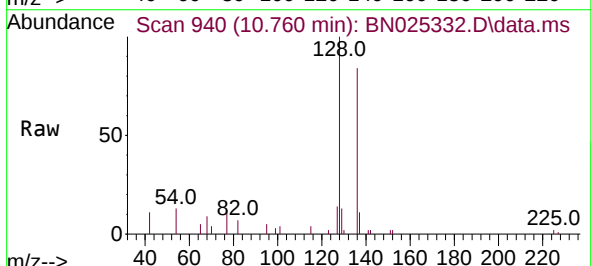
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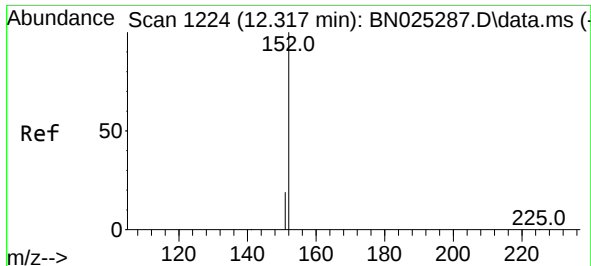
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#9
Naphthalene
Concen: 0.205 ng
RT: 10.760 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

Tgt Ion:128 Resp: 7816
Ion Ratio Lower Upper
128 100
129 13.0 9.4 14.2
127 14.4 11.0 16.6





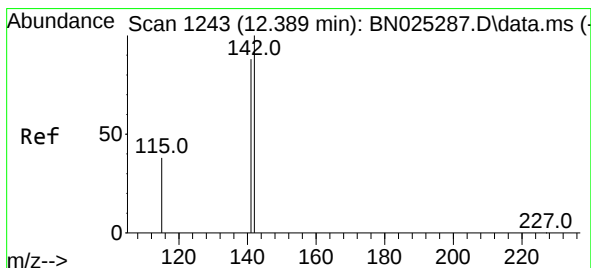
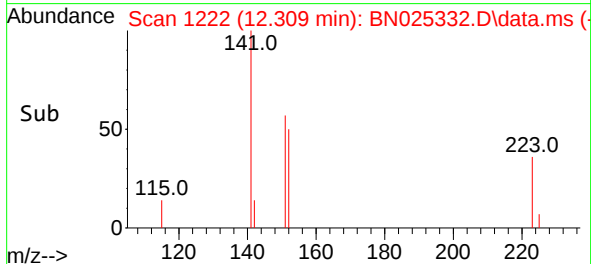
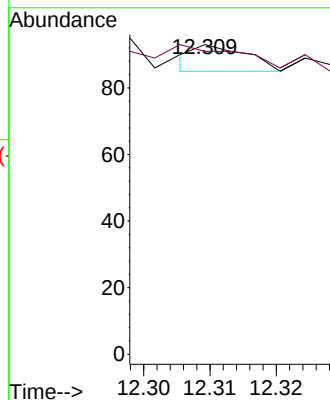
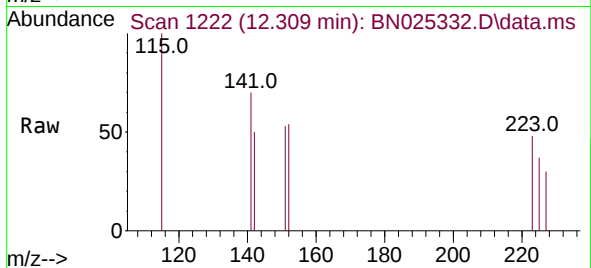
#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
RT: 12.309 min Scan# 1224
Delta R.T. 0.004 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

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

Tgt Ion:152 Resp:
Ion Ratio Lower Upper
152 100
151 0.0 16.4 24.6

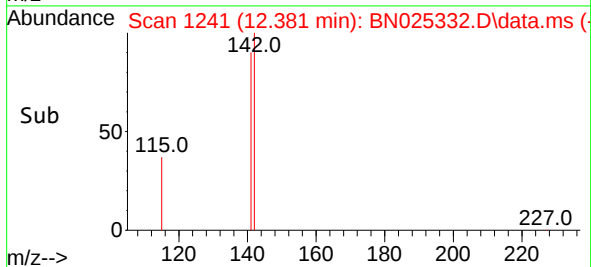
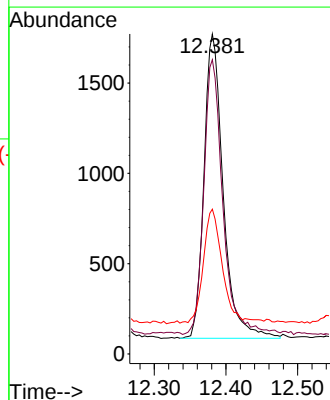
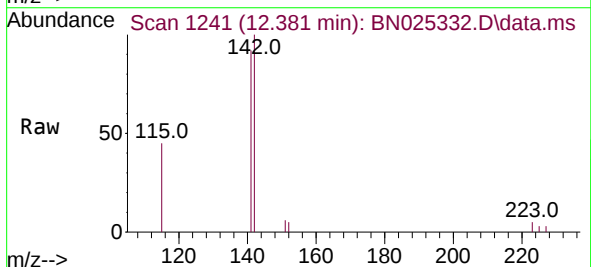
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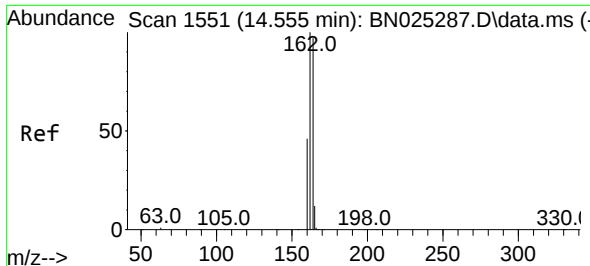
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#12
2-Methylnaphthalene
Concen: 0.117 ng
RT: 12.381 min Scan# 1241
Delta R.T. -0.000 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

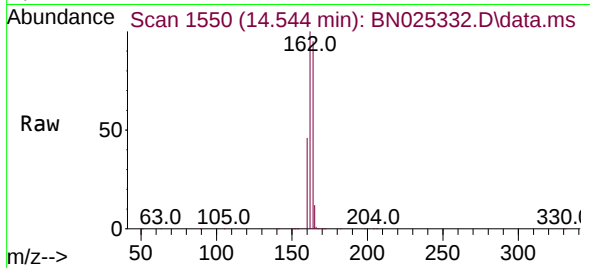
Tgt Ion:142 Resp: 3149
Ion Ratio Lower Upper
142 100
141 91.9 70.5 105.7
115 45.3 31.6 47.4





#13
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.544 min Scan# 1551
 Delta R.T. -0.000 min
 Lab File: BN025332.D
 Acq: 08 May 2023 14:44

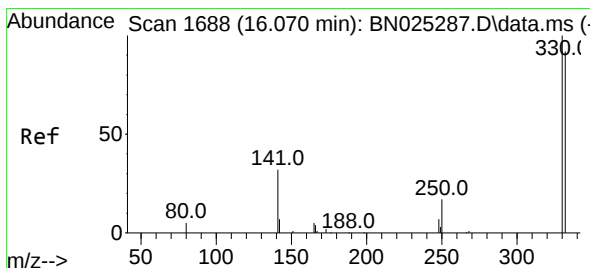
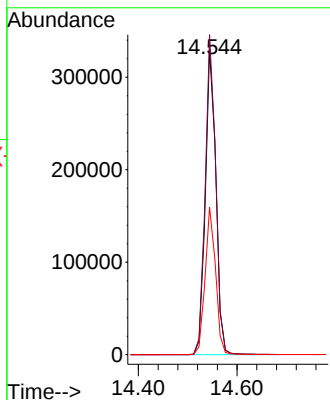
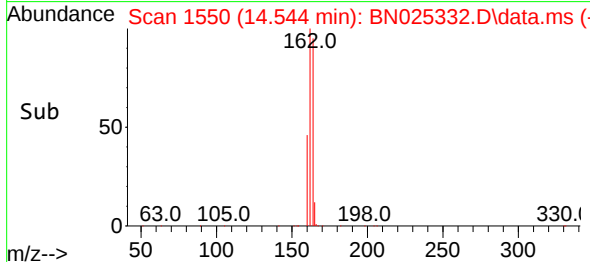
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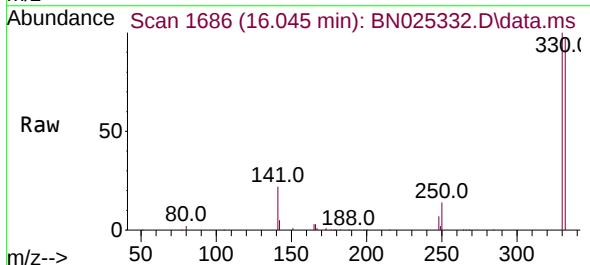
Tgt Ion:164 Resp: 49025
 Ion Ratio Lower Upper
 164 100
 162 104.9 82.1 123.1
 160 48.4 38.3 57.5

Manual Integrations
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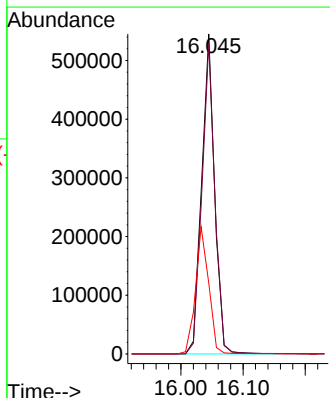
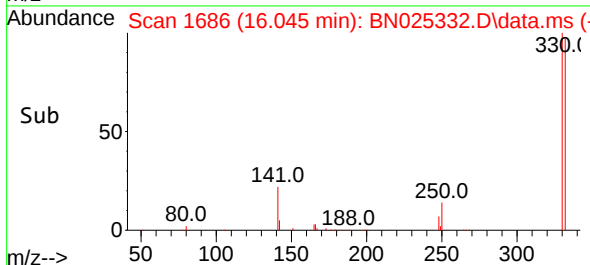
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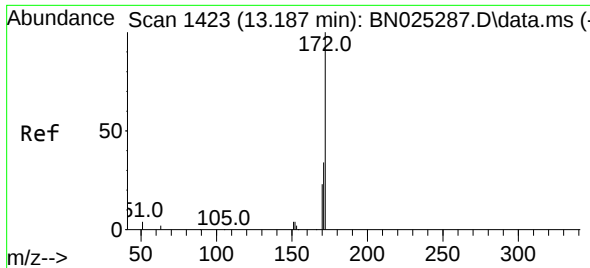


#14
 2,4,6-Tribromophenol
 Concen: 158.044 ng
 RT: 16.045 min Scan# 1686
 Delta R.T. -0.013 min
 Lab File: BN025332.D
 Acq: 08 May 2023 14:44



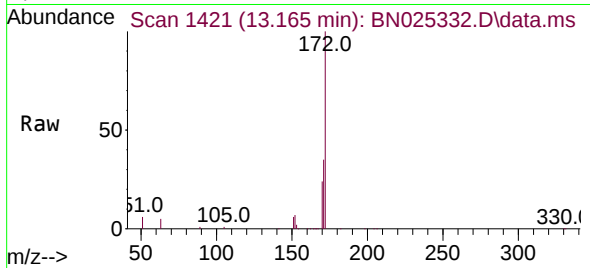
Tgt Ion:330 Resp: 792205
 Ion Ratio Lower Upper
 330 100
 332 96.9 77.4 116.0
 141 40.2 28.9 43.3





#15
2-Fluorobiphenyl
Concen: 63.709 ng
RT: 13.165 min Scan# 1421
Delta R.T. -0.011 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

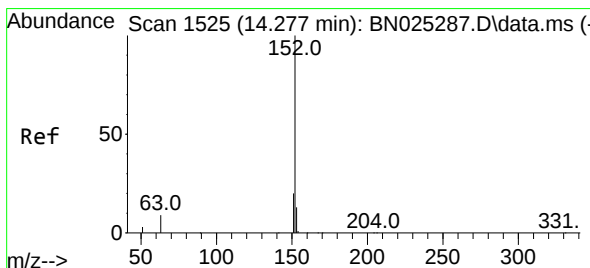
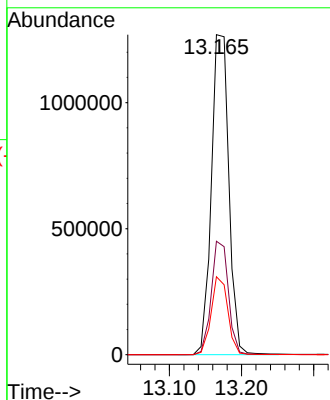
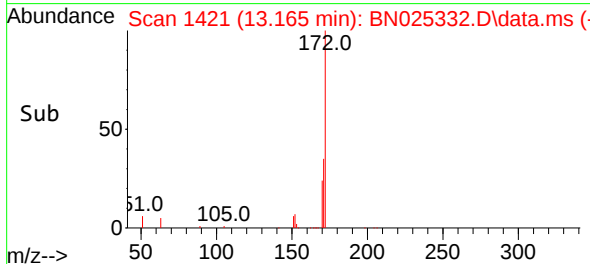
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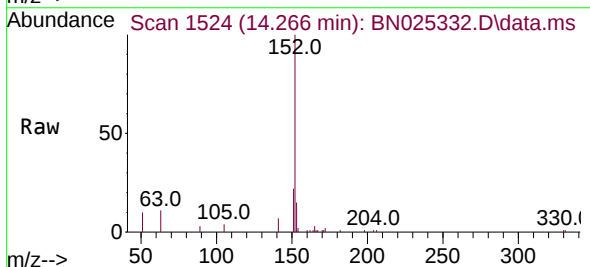
Tgt Ion:172 Resp: 2142210
Ion Ratio Lower Upper
172 100
171 35.4 27.9 41.9
170 24.4 19.0 28.4

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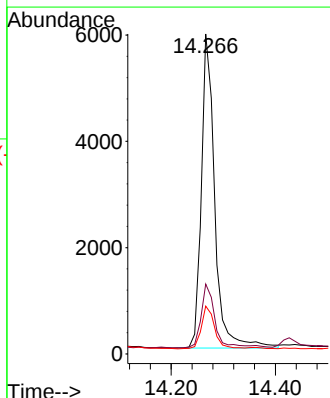
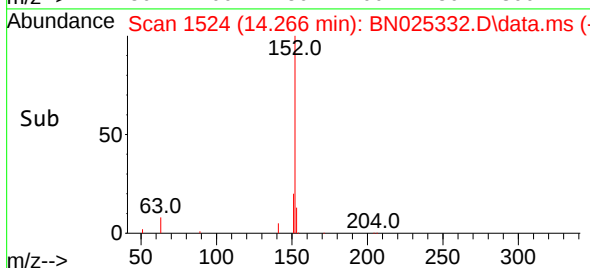
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

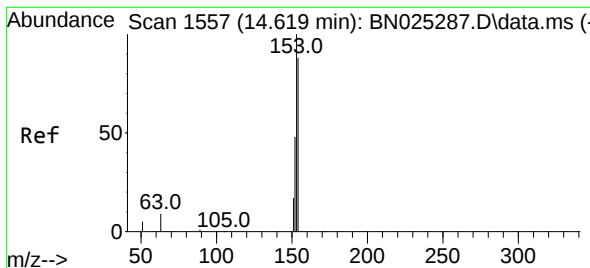


#16
Acenaphthylene
Concen: 0.241 ng
RT: 14.266 min Scan# 1524
Delta R.T. -0.000 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44



Tgt Ion:152 Resp: 10571
Ion Ratio Lower Upper
152 100
151 21.4 16.1 24.1
153 13.6 10.3 15.5





#17

Acenaphthene

Concen: 0.114 ng

RT: 14.608 min Scan# 1556

Delta R.T. -0.000 min

Lab File: BN025332.D

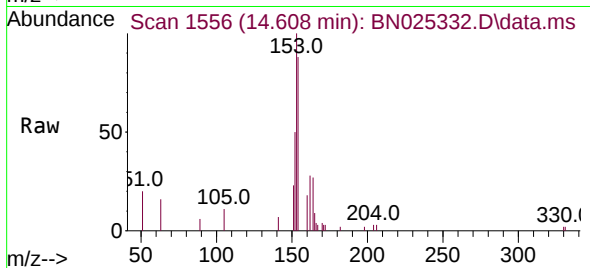
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Instrument :

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ClientSampleId :

ZONE-B-6-9-05012023



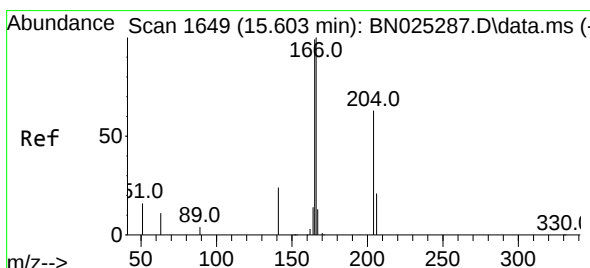
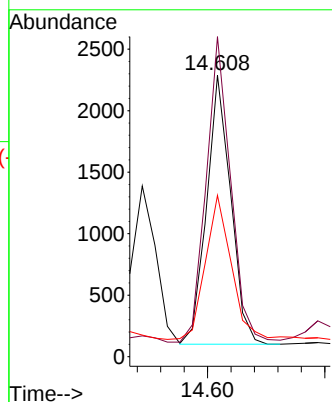
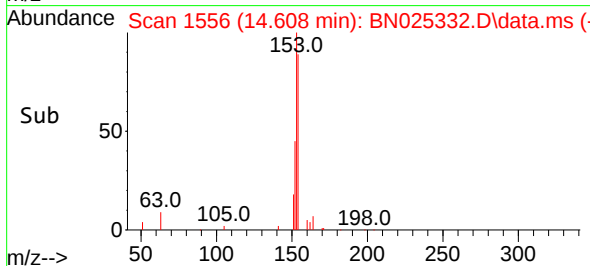
Tgt Ion:	154	Resp:	3120
Ion Ratio	Lower	Upper	
154	100		
153	115.1	91.3	136.9
152	63.1	44.7	67.1

Manual Integrations

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Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#18

Fluorene

Concen: 0.159 ng

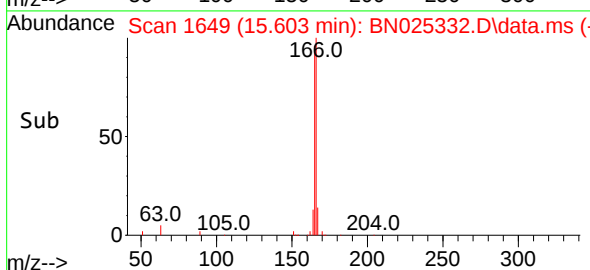
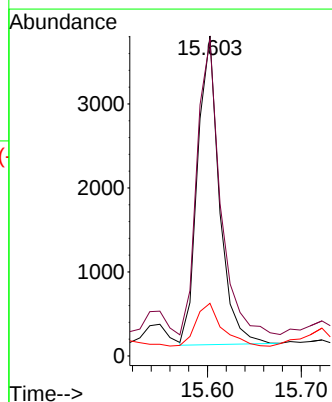
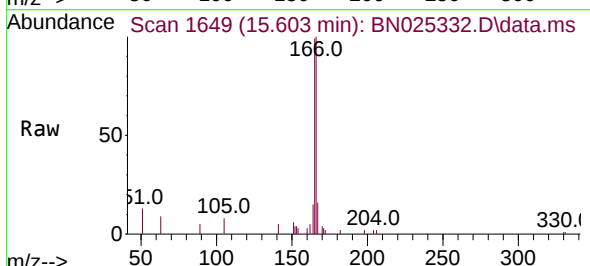
RT: 15.603 min Scan# 1649

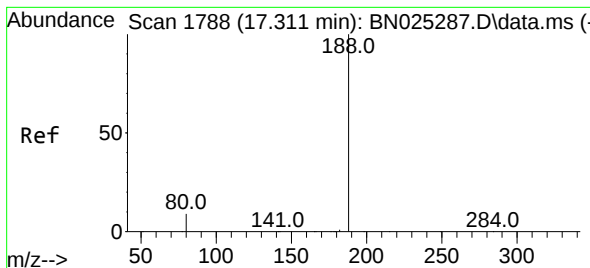
Delta R.T. -0.000 min

Lab File: BN025332.D

Acq: 08 May 2023 14:44

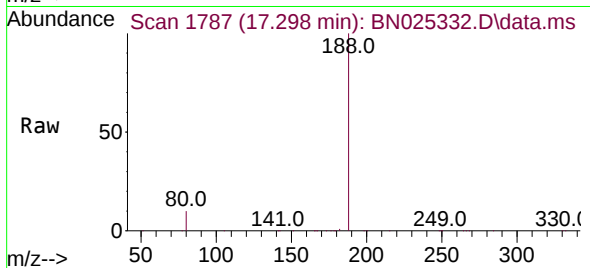
Tgt Ion:	166	Resp:	5933
Ion Ratio	Lower	Upper	
166	100		
165	103.1	79.0	118.4
167	17.1	10.3	15.5





#19
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.298 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

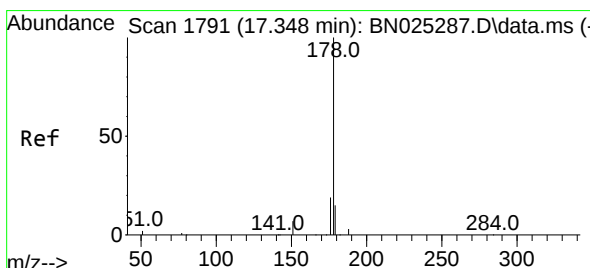
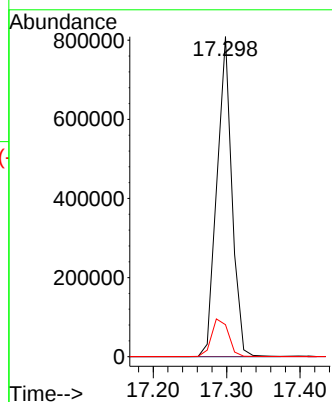
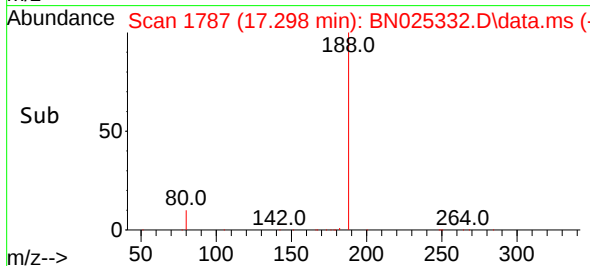
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023



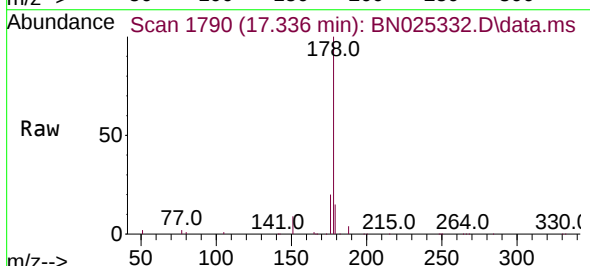
Tgt Ion:188 Resp: 1150062
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.0 8.0 12.0

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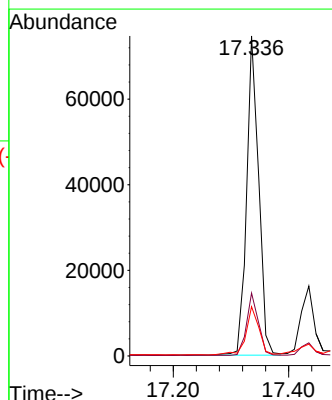
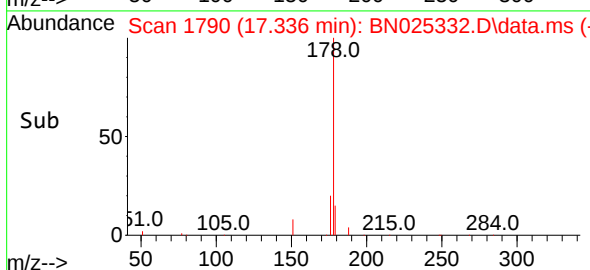
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

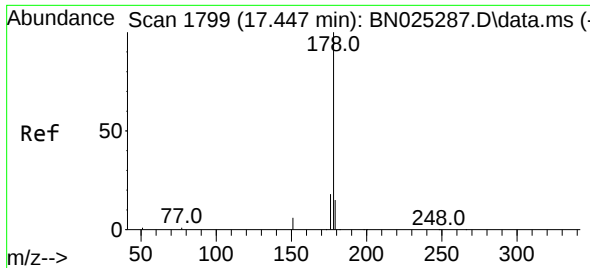


#25
Phenanthrene
Concen: 1.690 ng
RT: 17.336 min Scan# 1790
Delta R.T. -0.000 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44



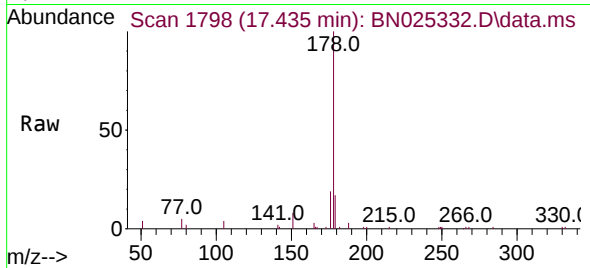
Tgt Ion:178 Resp: 107575
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 16.1 12.4 18.6





#26
 Anthracene
 Concen: 0.439 ng
 RT: 17.435 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN025332.D
 Acq: 08 May 2023 14:44

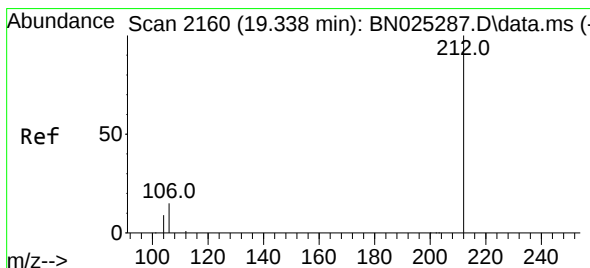
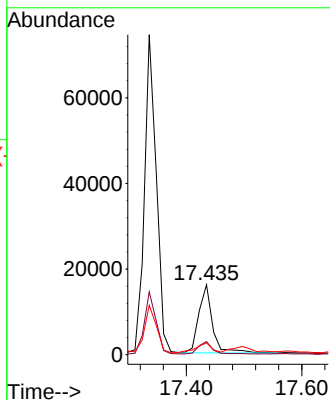
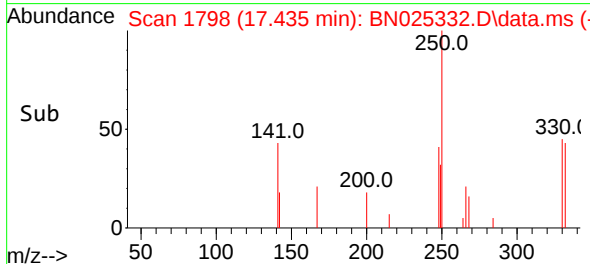
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-6-9-05012023



Tgt Ion:178 Resp: 2616
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.9 22.3
 179 16.8 12.0 18.0

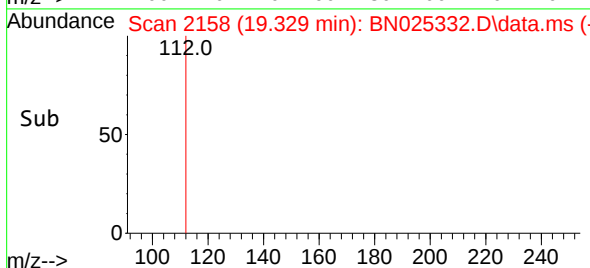
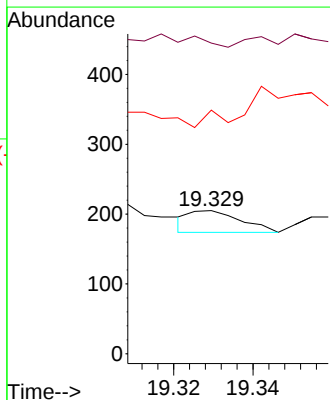
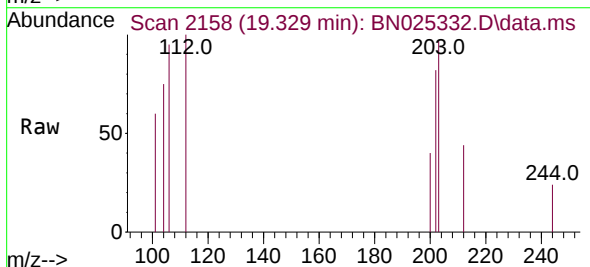
Manual Integrations
 APPROVED

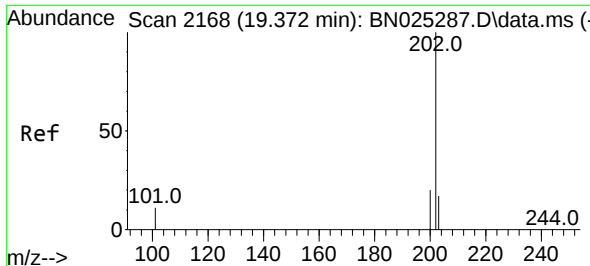
Reviewed By :Christian Giraldo 05/09/2023
 Supervised By :Jagrut Upadhyay 05/09/2023



#27
 Fluoranthene-d10
 Concen: 0.000 ng
 RT: 19.329 min Scan# 2158
 Delta R.T. -0.004 min
 Lab File: BN025332.D
 Acq: 08 May 2023 14:44

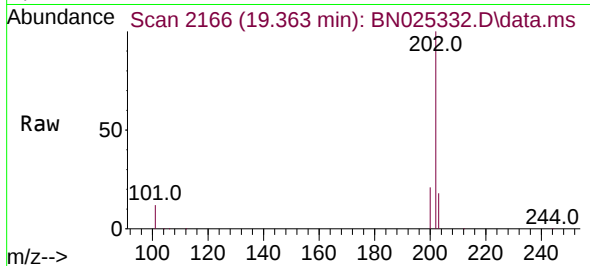
Tgt Ion:212 Resp: 28
 Ion Ratio Lower Upper
 212 100
 106 28.6 12.6 19.0#
 104 296.4 7.0 10.6#





#28
Fluoranthene
Concen: 3.350 ng
RT: 19.363 min Scan# 2166
Delta R.T. -0.000 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

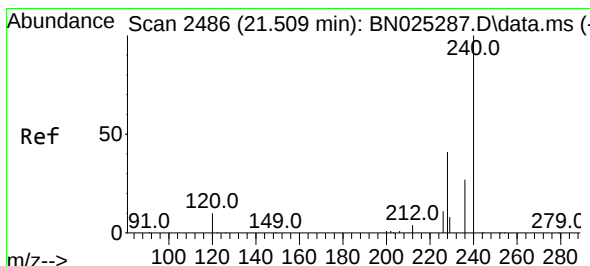
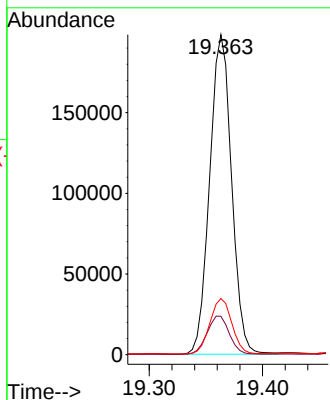
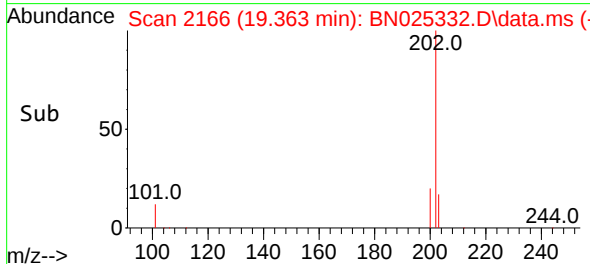
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023



Tgt Ion:202 Resp: 266364
Ion Ratio Lower Upper
202 100
101 12.2 9.8 14.8
203 17.3 13.5 20.3

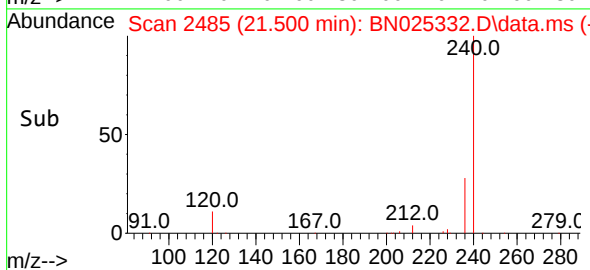
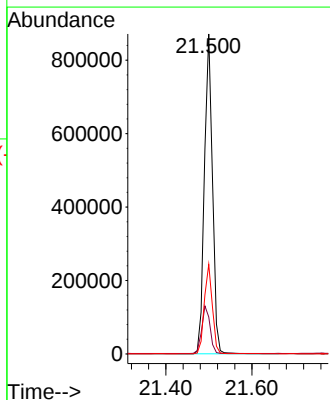
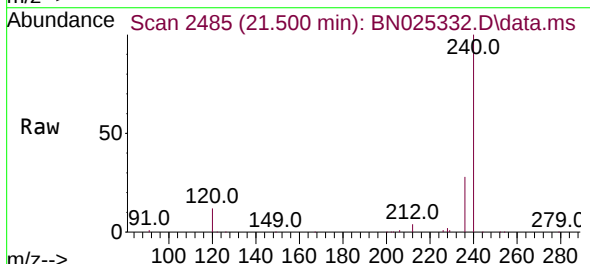
Manual Integrations
APPROVED

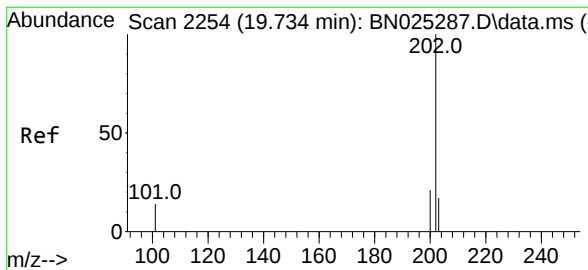
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#29
Chrysene-d12
Concen: 20.000 ng
RT: 21.500 min Scan# 2485
Delta R.T. -0.000 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

Tgt Ion:240 Resp: 1138872
Ion Ratio Lower Upper
240 100
120 11.5 10.3 15.5
236 28.0 22.3 33.5





#30

Pyrene

Concen: 3.030 ng

RT: 19.726 min Scan# 21

Delta R.T. -0.004 min

Lab File: BN025332.D

Acq: 08 May 2023 14:44

Instrument :

BNA_N

ClientSampleId :

ZONE-B-6-9-05012023

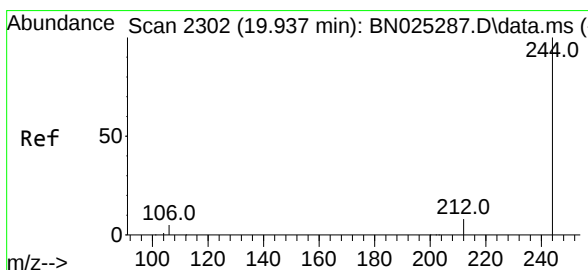
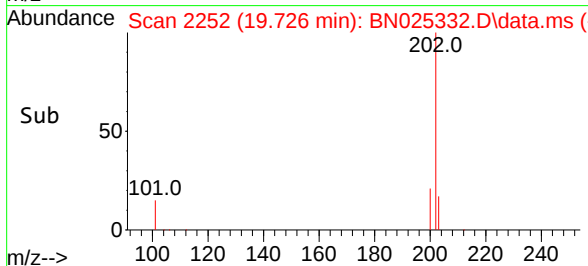
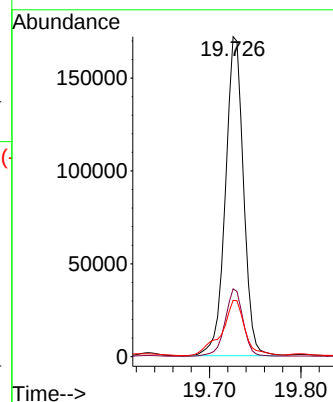
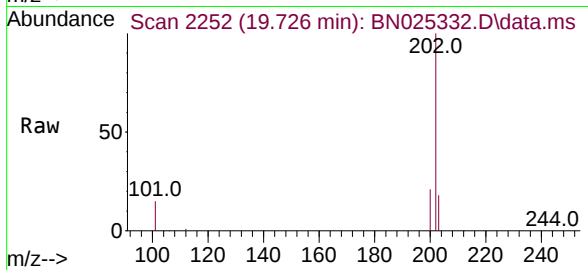
Tgt Ion:202	Resp: 235915
Ion Ratio	Lower Upper
202 100	
200 21.1	16.8 25.2
203 22.1	14.4 21.6

Manual Integrations

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Reviewed By :Christian Giraldo 05/09/2023

Supervised By :Jagrut Upadhyay 05/09/2023



#31

Terphenyl-d14

Concen: 64.148 ng

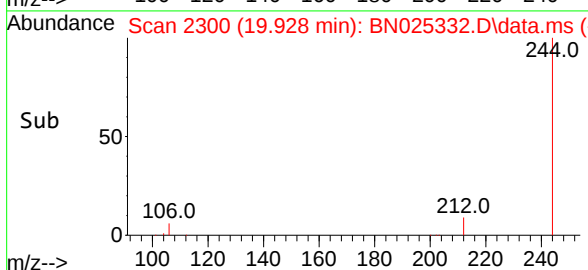
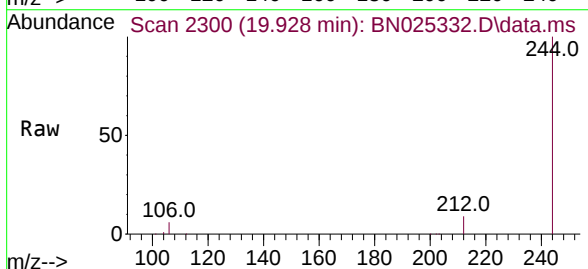
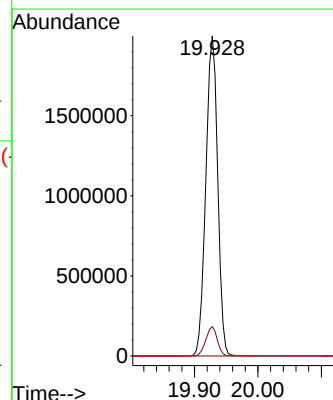
RT: 19.928 min Scan# 2300

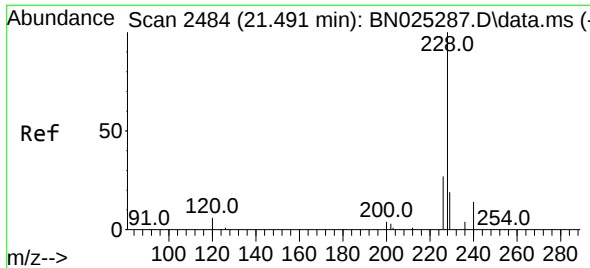
Delta R.T. -0.000 min

Lab File: BN025332.D

Acq: 08 May 2023 14:44

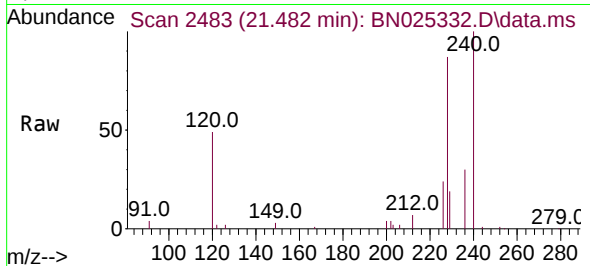
Tgt Ion:244	Resp: 2946080
Ion Ratio	Lower Upper
244 100	
212 9.2	7.1 10.7
122 0.0	0.0 0.0





#32
Benzo(a)anthracene
Concen: 1.877 ng
RT: 21.482 min Scan# 2483
Delta R.T. -0.000 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

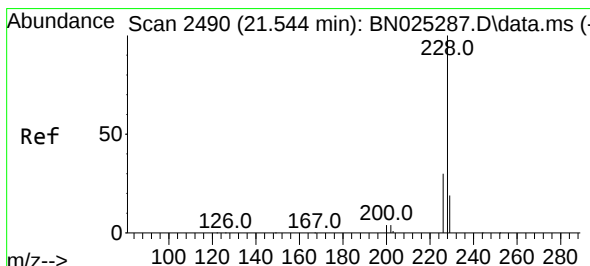
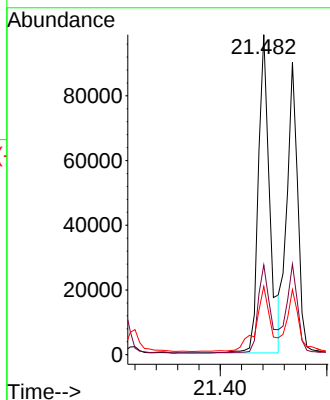
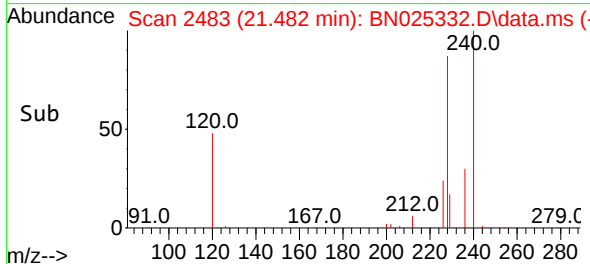
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023



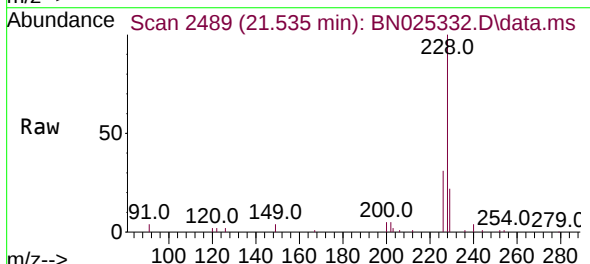
Tgt Ion:228 Resp: 144518
Ion Ratio Lower Upper
228 100
226 28.1 22.5 33.7
229 21.3 16.2 24.2

Manual Integrations
APPROVED

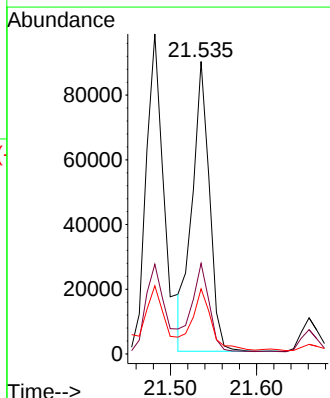
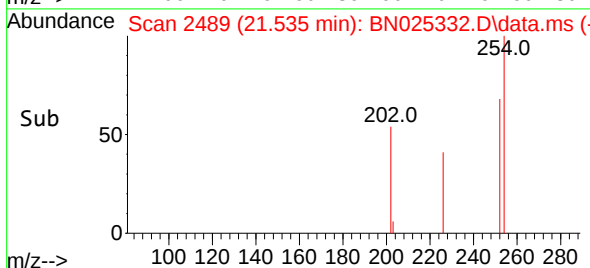
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023

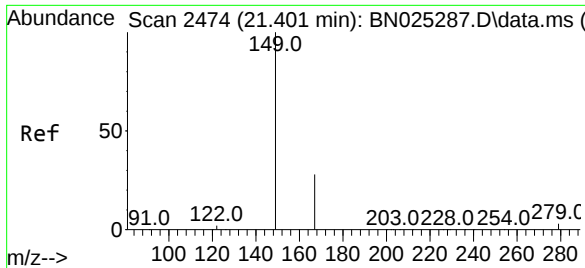


#33
Chrysene
Concen: 1.634 ng
RT: 21.535 min Scan# 2489
Delta R.T. -0.000 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44



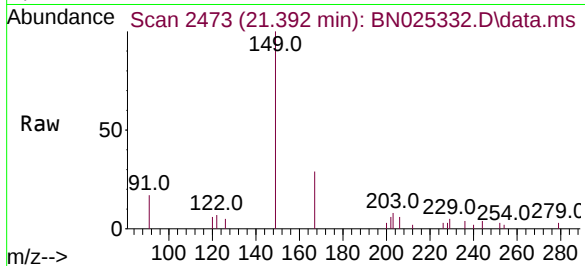
Tgt Ion:228 Resp: 125221
Ion Ratio Lower Upper
228 100
226 31.0 24.6 36.8
229 22.2 16.2 24.4





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.415 ng
RT: 21.392 min Scan# 2473
Delta R.T. -0.000 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

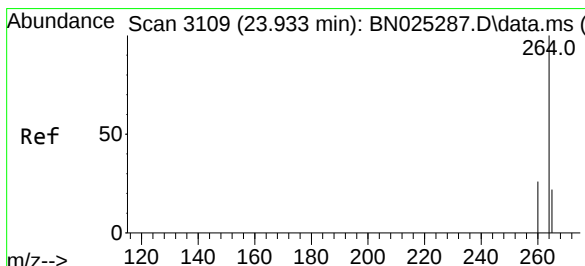
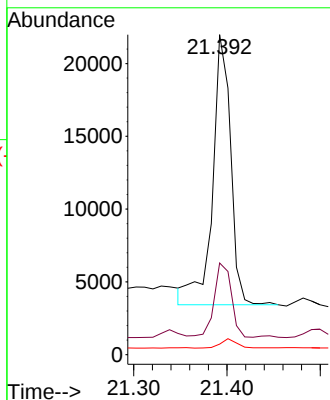
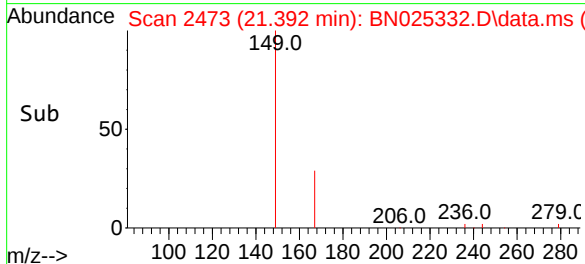
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023



Tgt Ion:149 Resp: 25059
Ion Ratio Lower Upper
149 100
167 26.0 22.2 33.4
279 3.2 2.6 4.0

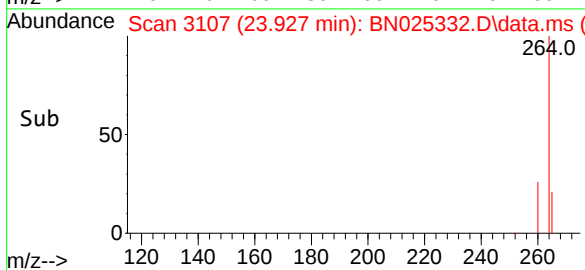
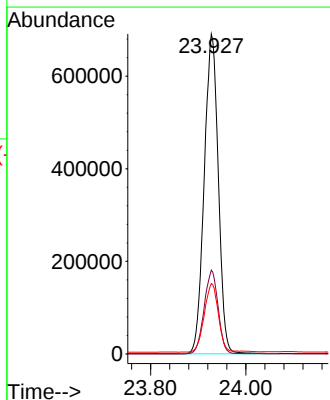
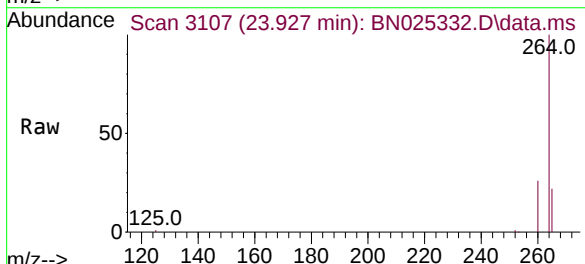
Manual Integrations
APPROVED

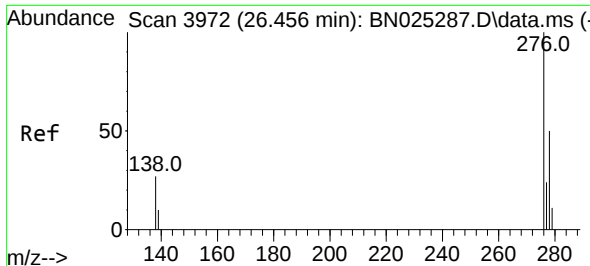
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#35
Perylene-d12
Concen: 20.000 ng
RT: 23.927 min Scan# 3107
Delta R.T. -0.003 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

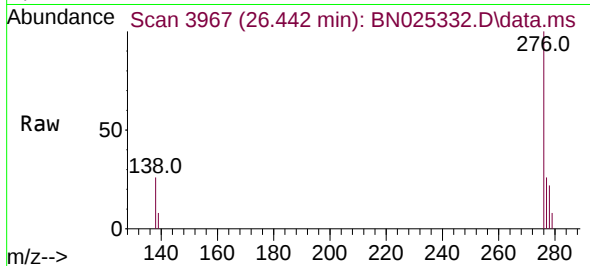
Tgt Ion:264 Resp: 1417366
Ion Ratio Lower Upper
264 100
260 26.2 21.5 32.3
265 22.0 46.2 69.4#





#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.817 ng
 RT: 26.442 min Scan# 3972
 Delta R.T. -0.006 min
 Lab File: BN025332.D
 Acq: 08 May 2023 14:44

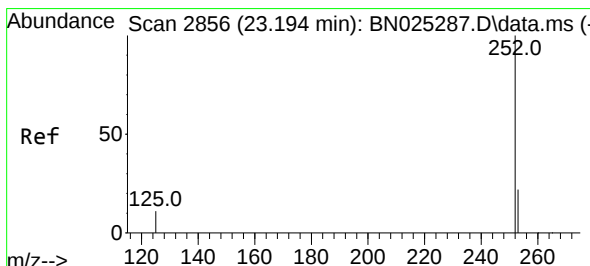
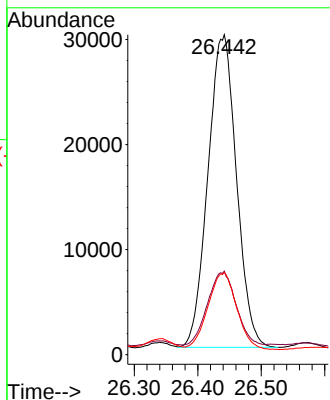
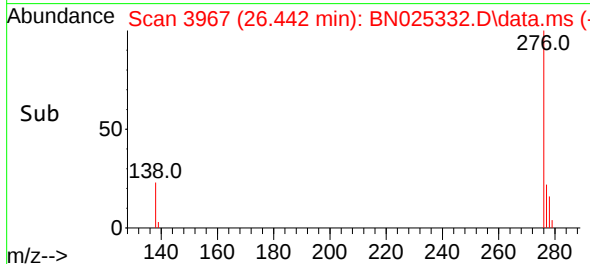
Instrument :
 BNA_N
 ClientSampleId :
 ZONE-B-6-9-05012023



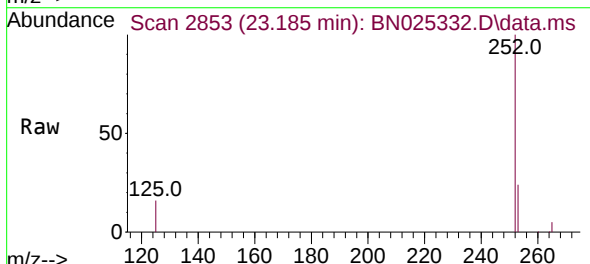
Tgt Ion:276 Resp: 92869
 Ion Ratio Lower Upper
 276 100
 138 23.3 22.5 33.7
 277 24.9 19.8 29.6

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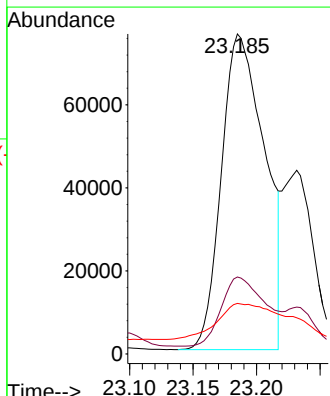
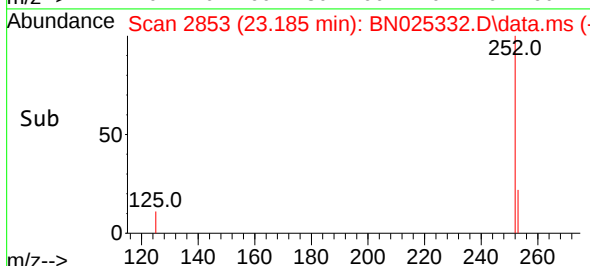
Reviewed By :Christian Giraldo 05/09/2023
 Supervised By :Jagrut Upadhyay 05/09/2023

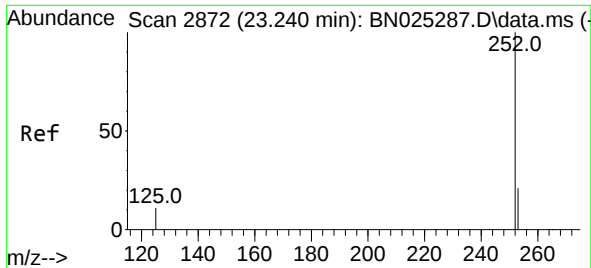


#37
 Benzo(b)fluoranthene
 Concen: 2.001 ng
 RT: 23.185 min Scan# 2853
 Delta R.T. -0.003 min
 Lab File: BN025332.D
 Acq: 08 May 2023 14:44



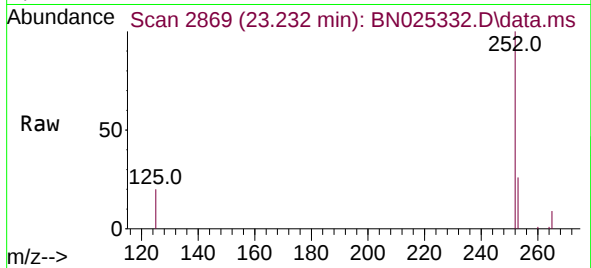
Tgt Ion:252 Resp: 179847
 Ion Ratio Lower Upper
 252 100
 253 24.0 20.8 31.2
 125 15.8 13.4 20.2





#38
Benzo(k)fluoranthene
Concen: 0.765 ng m
RT: 23.232 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

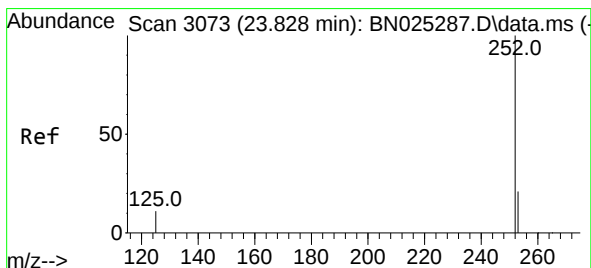
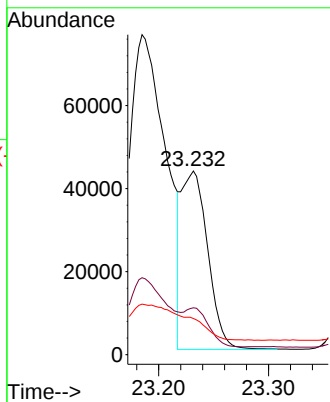
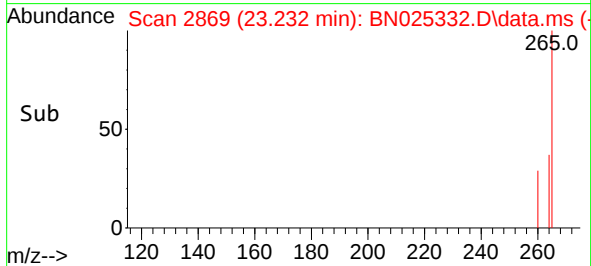
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023



Tgt Ion:252 Resp: 7196
Ion Ratio Lower Upper
252 100
253 25.5 20.6 30.8
125 19.7 13.1 19.7

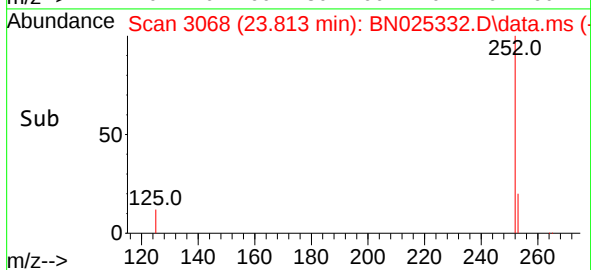
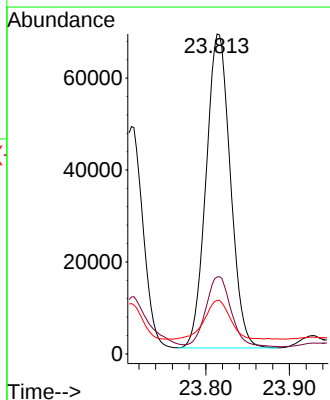
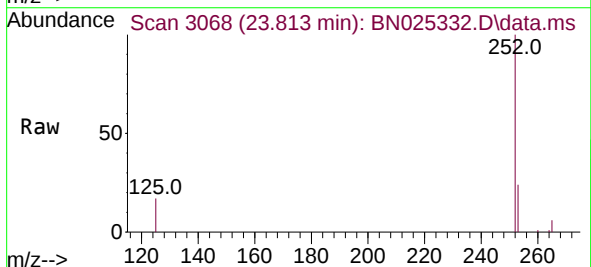
Manual Integrations
APPROVED

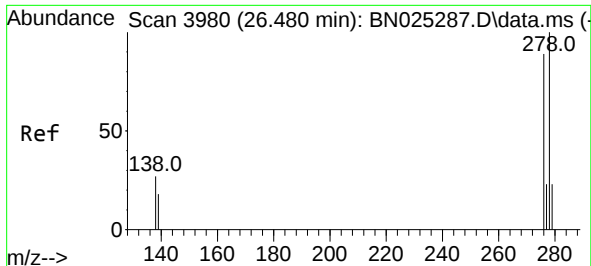
Reviewed By :Christian Giraldo 05/09/2023
Supervised By :Jagrut Upadhyay 05/09/2023



#39
Benzo(a)pyrene
Concen: 1.495 ng
RT: 23.813 min Scan# 3068
Delta R.T. -0.009 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

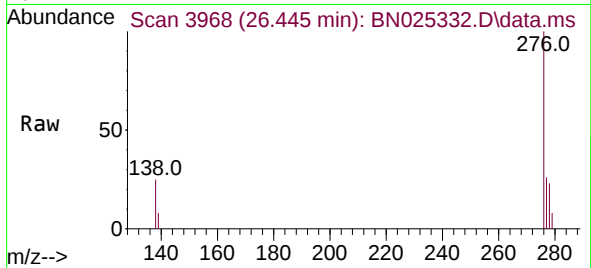
Tgt Ion:252 Resp: 137589
Ion Ratio Lower Upper
252 100
253 24.0 21.4 32.0
125 16.7 15.4 23.2





#40
Dibenzo(a,h)anthracene
Concen: 0.267 ng
RT: 26.445 min Scan# 3968
Delta R.T. -0.021 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

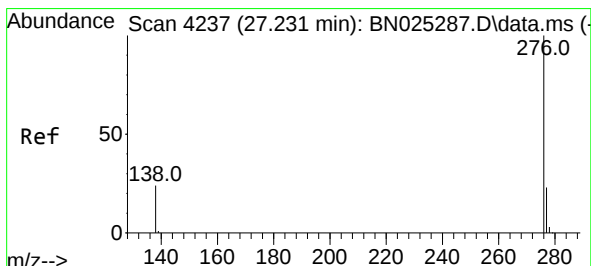
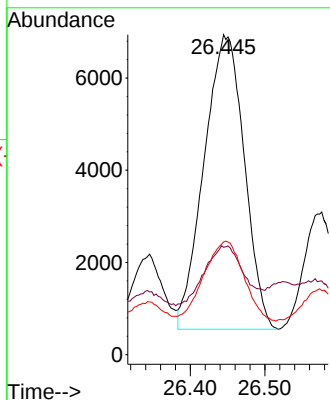
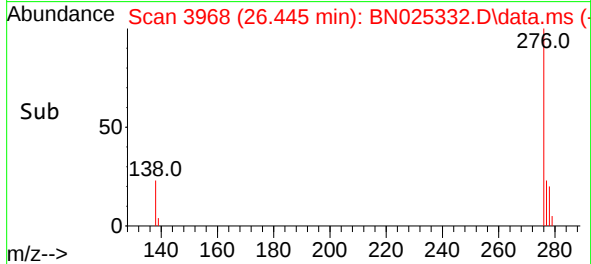
Instrument :
BNA_N
ClientSampleId :
ZONE-B-6-9-05012023



Tgt Ion:278 Resp: 23938
Ion Ratio Lower Upper
278 100
139 33.5 17.6 26.4
279 35.3 21.6 32.4

Manual Integrations
APPROVED

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



#41
Benzo(g,h,i)perylene
Concen: 0.908 ng
RT: 27.217 min Scan# 4232
Delta R.T. -0.012 min
Lab File: BN025332.D
Acq: 08 May 2023 14:44

Tgt Ion:276 Resp: 89536
Ion Ratio Lower Upper
276 100
277 24.8 20.1 30.1
138 26.4 21.0 31.6

