

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136050.D
 Acq On : 31 Oct 2023 14:32
 Operator : CG\JU
 Sample : 04704-06DL 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-4(5-10)DL

Quant Time: Oct 31 15:17:02 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 01:13:02 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	152287	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	594738	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	280004	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	425576	20.000	ng	0.00
76) Chrysene-d12	14.010	240	291753	20.000	ng	0.00
86) Perylene-d12	15.504	264	378453	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.439	112	166328	17.163	ng	-0.01
7) Phenol-d6	6.445	99	248191	20.555	ng	-0.01
23) Nitrobenzene-d5	7.375	82	141079	14.300	ng	-0.02
42) 2,4,6-Tribromophenol	10.645	330	33900	11.343	ng	-0.01
45) 2-Fluorobiphenyl	9.180	172	294477	16.765	ng	0.00
79) Terphenyl-d14	12.951	244	218452	11.636	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	299744	10.452	ng	99
37) 2-Methylnaphthalene	8.816	142	78265	4.070	ng	97
38) 1-Methylnaphthalene	8.916	142	109917	6.142	ng	98
49) Acenaphthylene	9.716	152	99080	4.036	ng	99
52) Acenaphthene	9.892	154	39716	2.545	ng	99
55) Dibenzofuran	10.063	168	54066	2.376	ng	# 95
58) Fluorene	10.410	166	130105	7.637	ng	99
71) Phenanthrene	11.374	178	647701	30.227	ng	99
72) Anthracene	11.427	178	170599	7.770	ng	98
75) Fluoranthene	12.574	202	521022	23.669	ng	98
78) Pyrene	12.804	202	579473	22.528	ng	99
81) Benzo(a)anthracene	13.998	228	298425m	15.451	ng	
83) Chrysene	14.033	228	253517	13.328	ng	97
87) Indeno(1,2,3-cd)pyrene	17.003	276	140147	5.666	ng	97
88) Benzo(b)fluoranthene	15.062	252	310977m	13.887	ng	
89) Benzo(k)fluoranthene	15.086	252	100609m	4.541	ng	
90) Benzo(a)pyrene	15.433	252	278789	13.399	ng	98
91) Dibenzo(a,h)anthracene	17.021	278	40928	2.020	ng	94
92) Benzo(g,h,i)perylene	17.468	276	130905	8.228	ng	98

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

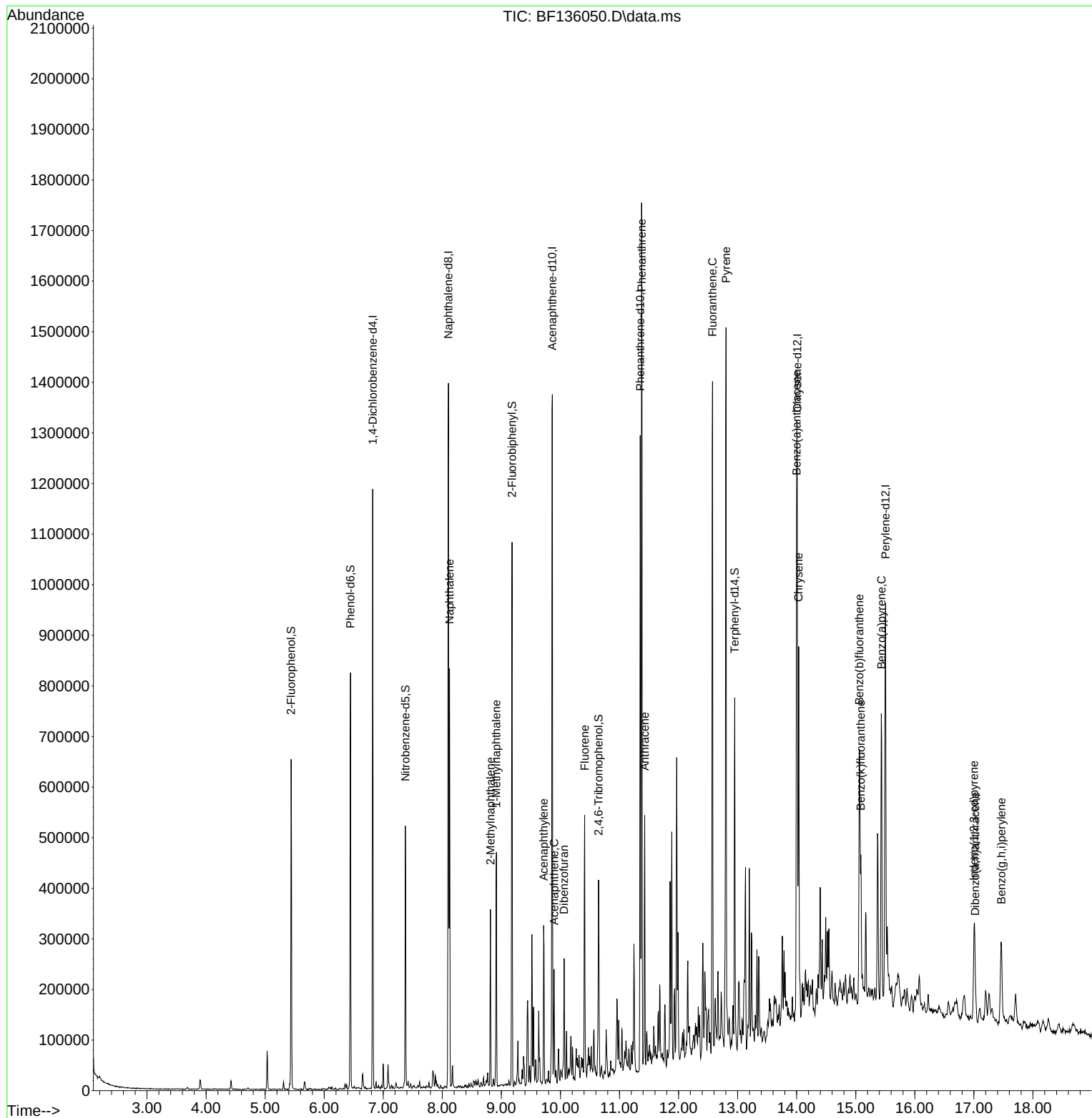
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136050.D
Acq On : 31 Oct 2023 14:32
Operator : CG\JU
Sample : 04704-06DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

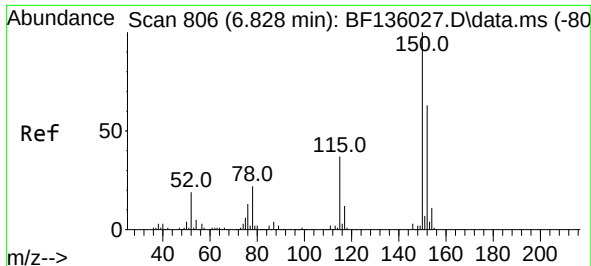
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL

Quant Time: Oct 31 15:17:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 31 01:13:02 2023
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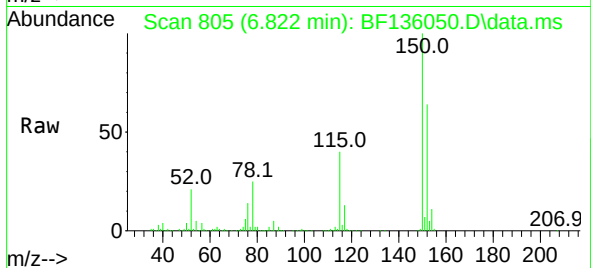
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

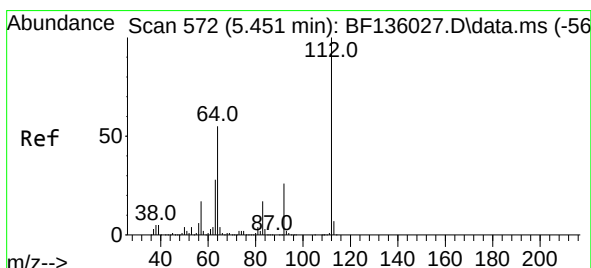
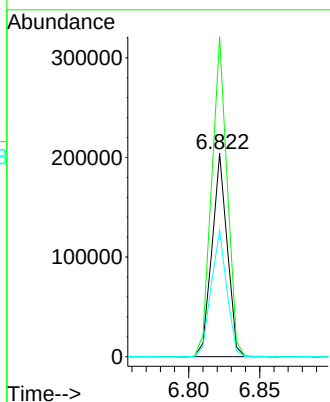
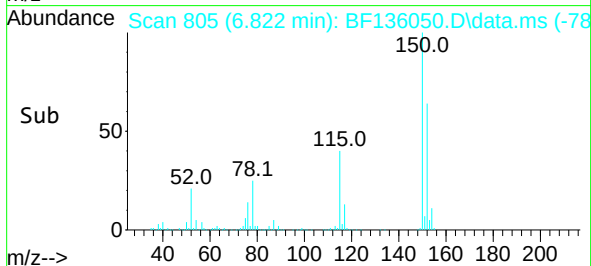
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



Tgt Ion:152 Resp: 15228
Ion Ratio Lower Upper
152 100
150 157.4 126.4 189.6
115 62.3 47.0 70.4

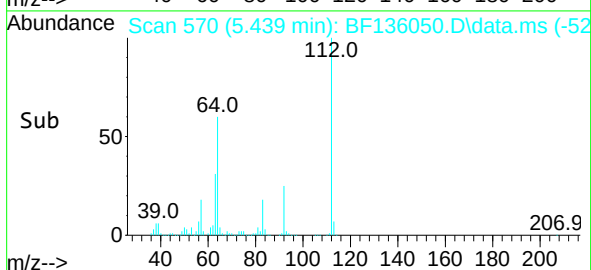
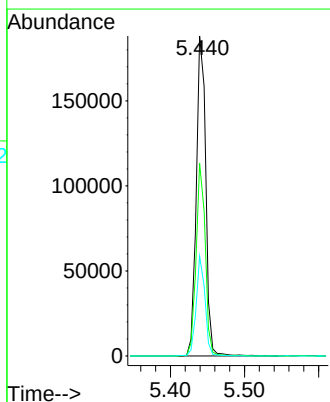
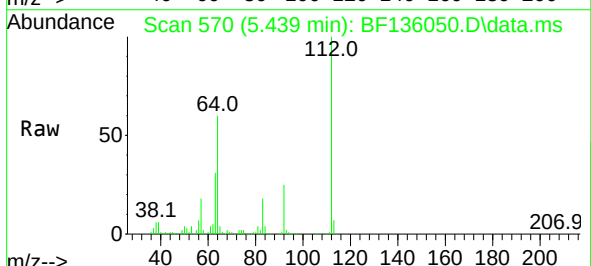
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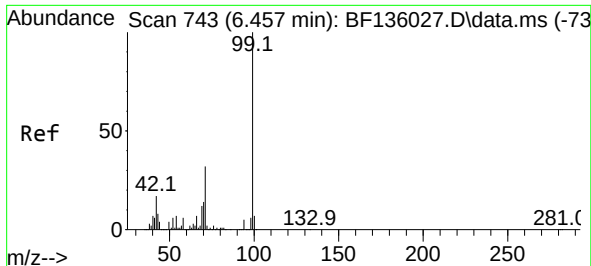
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#5
2-Fluorophenol
Concen: 17.163 ng
RT: 5.439 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

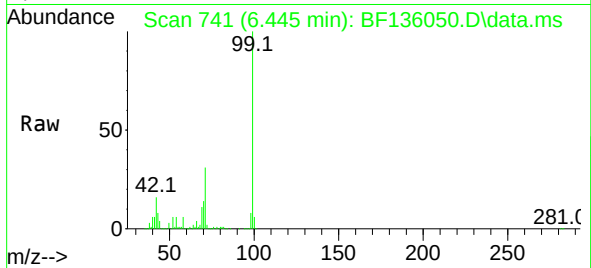
Tgt Ion:112 Resp: 166328
Ion Ratio Lower Upper
112 100
64 60.2 43.9 65.9
63 31.2 22.4 33.6





#7
Phenol-d6
Concen: 20.555 ng
RT: 6.445 min Scan# 743
Delta R.T. -0.012 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

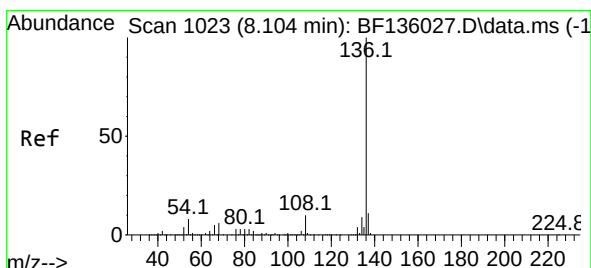
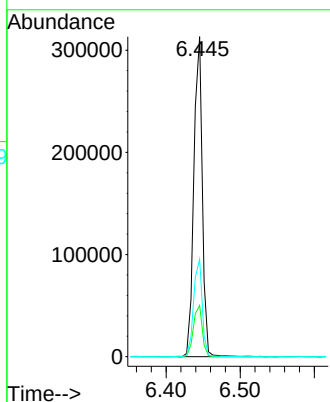
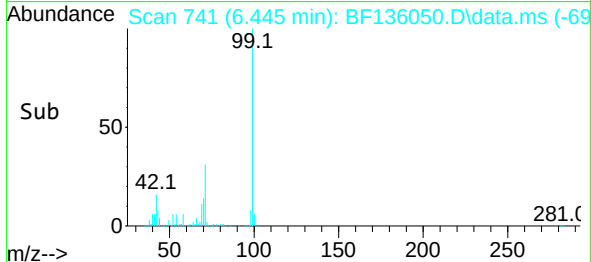
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



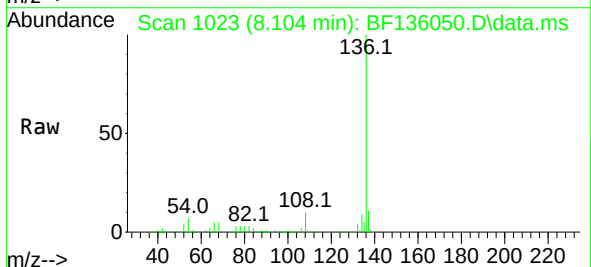
Tgt Ion: 99 Resp: 24819
Ion Ratio Lower Upper
99 100
42 16.1 13.7 20.5
71 30.5 25.9 38.9

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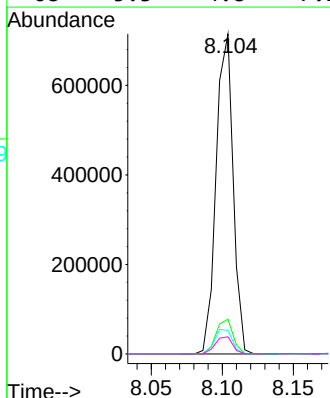
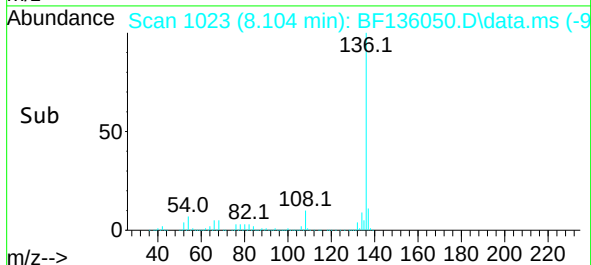
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

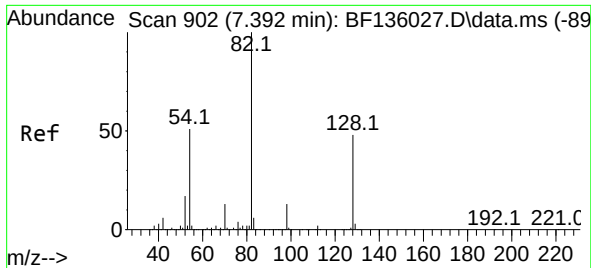


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32



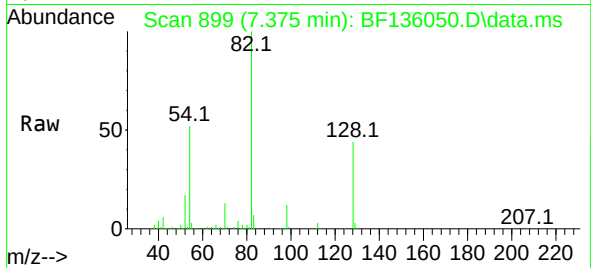
Tgt Ion:136 Resp: 594738
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 7.4 6.6 9.8
68 5.3 4.8 7.2





#23
Nitrobenzene-d5
Concen: 14.300 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.018 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

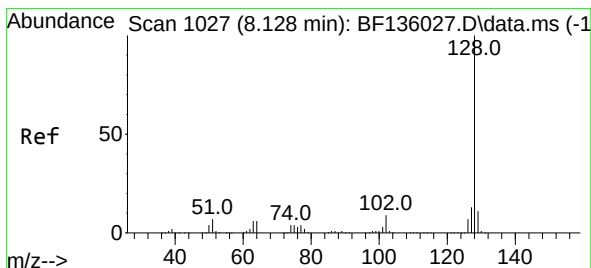
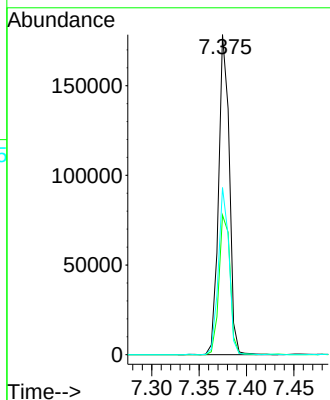
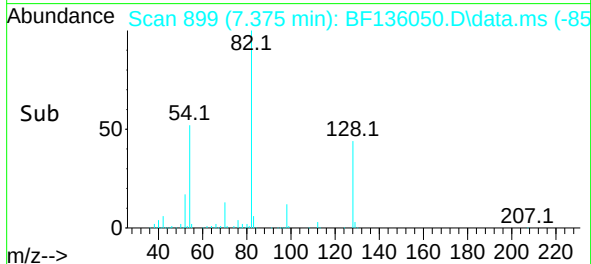
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



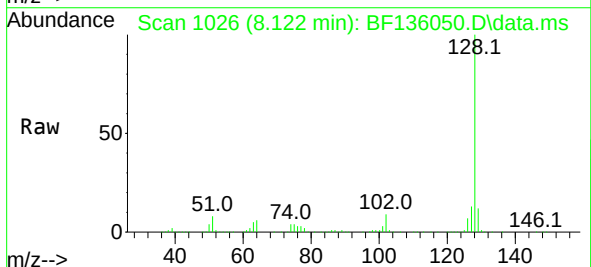
Tgt Ion: 82 Resp: 141079
Ion Ratio Lower Upper
82 100
128 43.6 38.6 57.8
54 52.2 40.8 61.2

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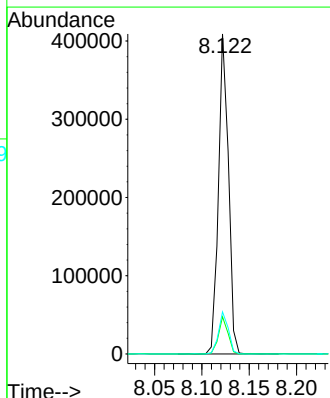
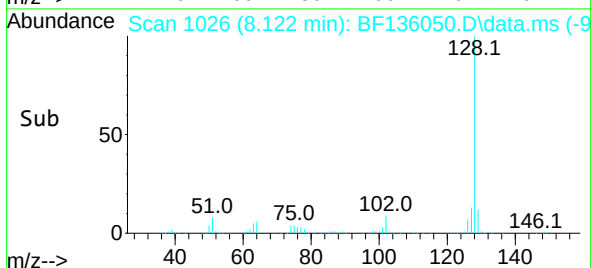
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

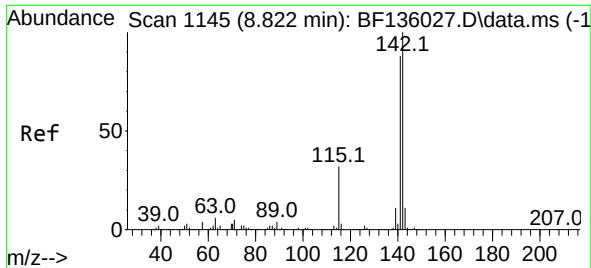


#31
Naphthalene
Concen: 10.452 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32



Tgt Ion:128 Resp: 299744
Ion Ratio Lower Upper
128 100
129 11.6 8.9 13.3
127 13.2 10.5 15.7





#37

2-Methylnaphthalene

Concen: 4.070 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136050.D

Acq: 31 Oct 2023 14:32

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

Tgt Ion:142 Resp: 7826

Ion Ratio Lower Upper

142 100

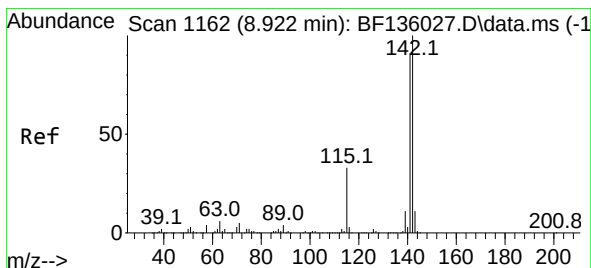
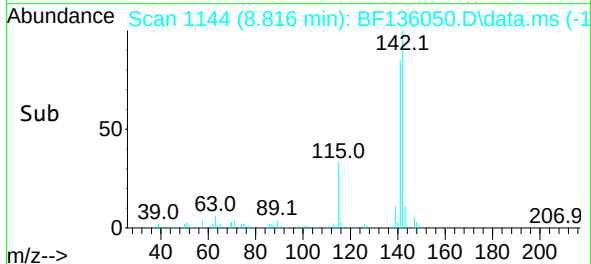
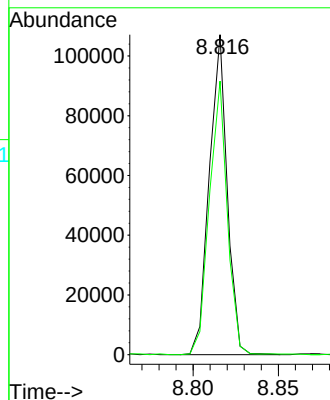
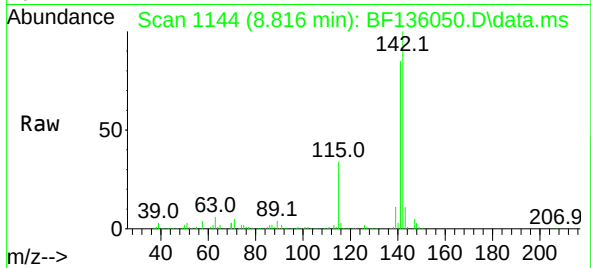
141 85.5 70.4 105.6

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#38

1-Methylnaphthalene

Concen: 6.142 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136050.D

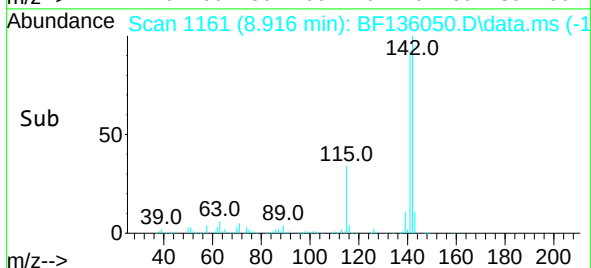
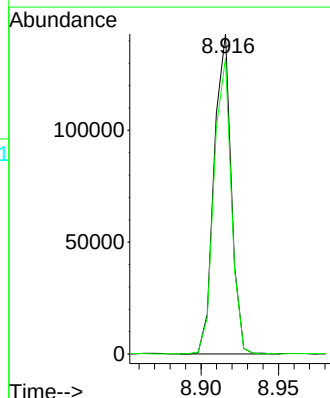
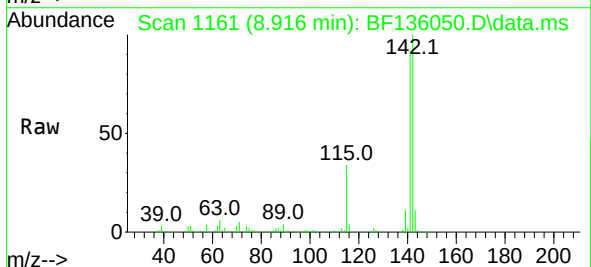
Acq: 31 Oct 2023 14:32

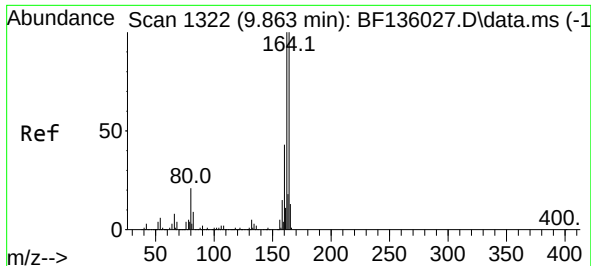
Tgt Ion:142 Resp: 109917

Ion Ratio Lower Upper

142 100

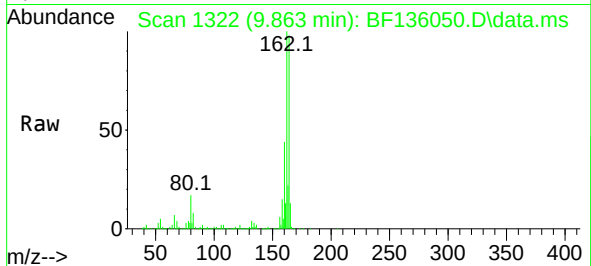
141 92.4 72.6 109.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

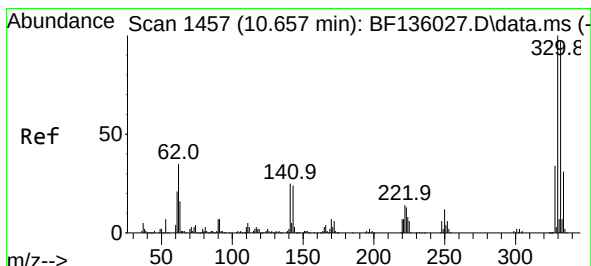
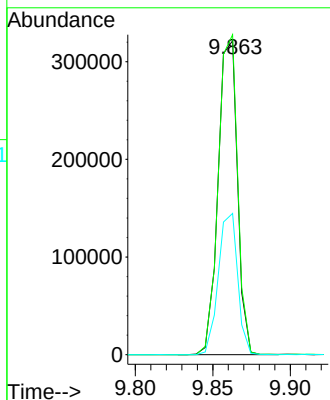
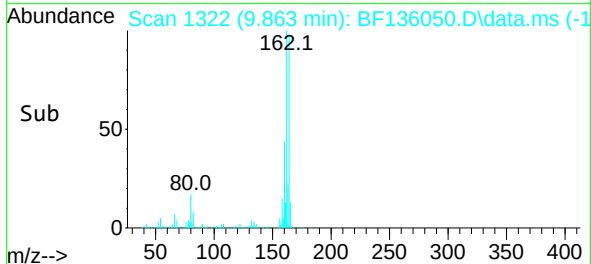
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



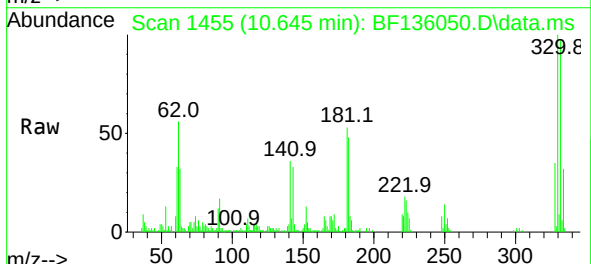
Tgt Ion:164 Resp: 280004
Ion Ratio Lower Upper
164 100
162 101.9 80.1 120.1
160 45.0 34.8 52.2

Manual Integrations
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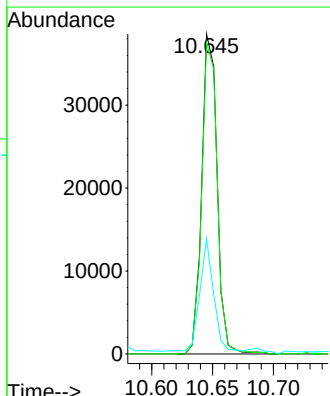
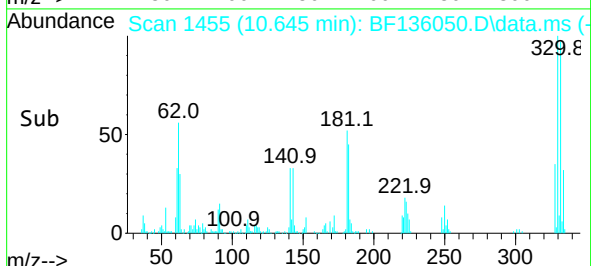
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

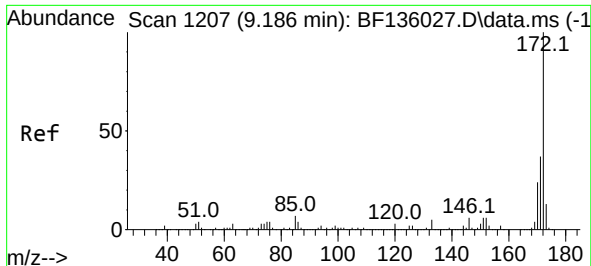


#42
2,4,6-Tribromophenol
Concen: 11.343 ng
RT: 10.645 min Scan# 1455
Delta R.T. -0.012 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32



Tgt Ion:330 Resp: 33900
Ion Ratio Lower Upper
330 100
332 98.2 76.9 115.3
141 31.0 23.2 34.8





#45

2-Fluorobiphenyl

Concen: 16.765 ng

RT: 9.180 min Scan# 1206

Delta R.T. -0.006 min

Lab File: BF136050.D

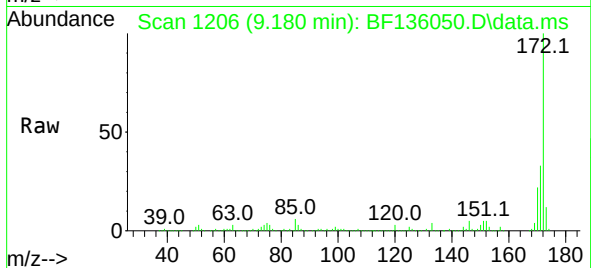
Acq: 31 Oct 2023 14:32

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL



Tgt Ion:172 Resp: 29447

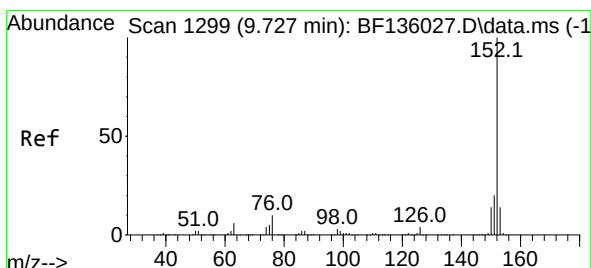
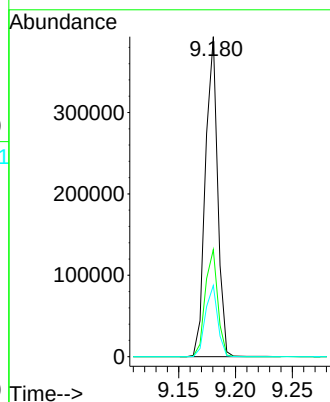
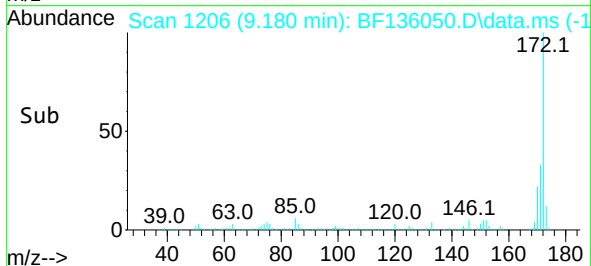
Ion	Ratio	Lower	Upper
172	100		
171	33.4	29.4	44.0
170	22.3	19.3	28.9

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#49

Acenaphthylene

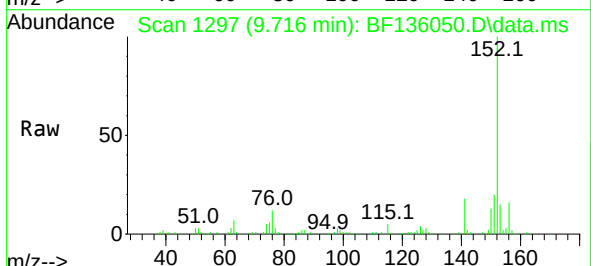
Concen: 4.036 ng

RT: 9.716 min Scan# 1297

Delta R.T. -0.012 min

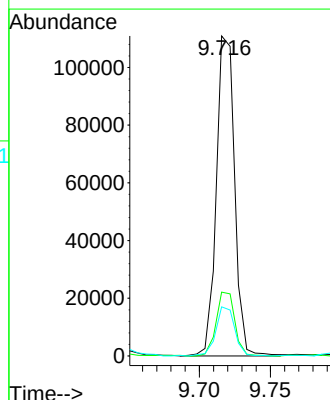
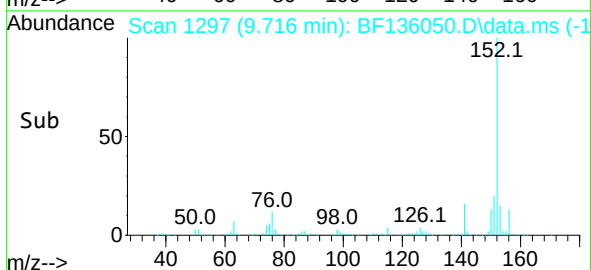
Lab File: BF136050.D

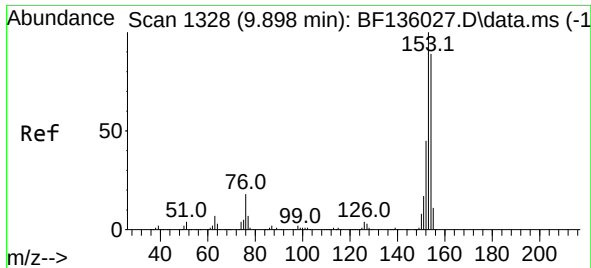
Acq: 31 Oct 2023 14:32



Tgt Ion:152 Resp: 99080

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1
153	15.4	11.4	17.2





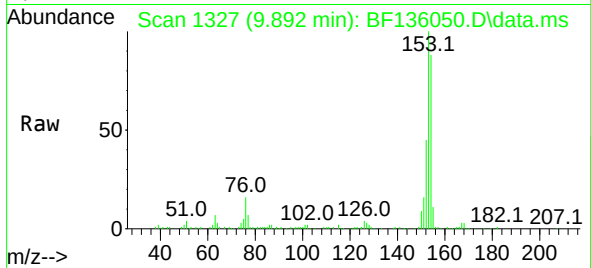
#52
Acenaphthene
Concen: 2.545 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

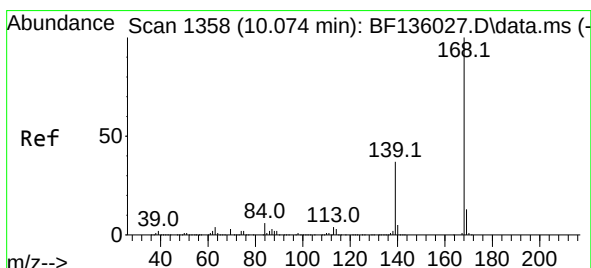
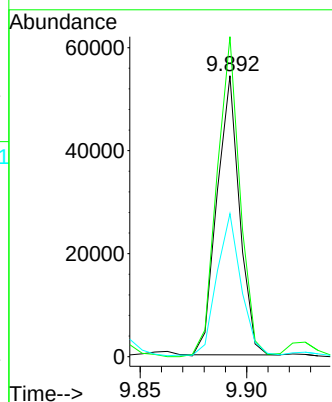
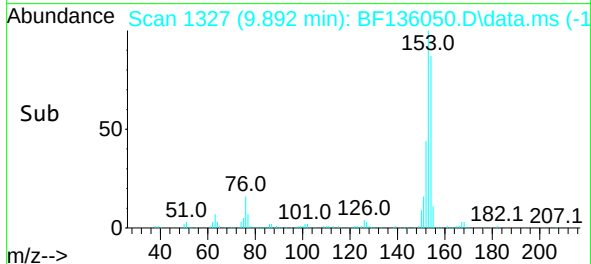


Tgt Ion:154 Resp: 39710
Ion Ratio Lower Upper
154 100
153 113.9 89.9 134.9
152 50.9 40.2 60.2

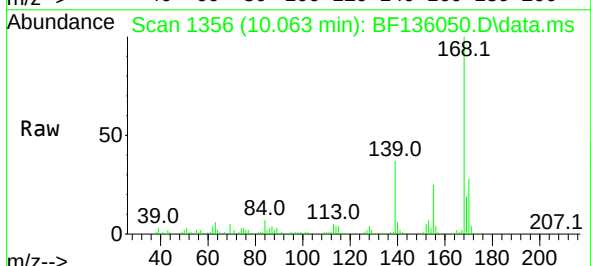
Manual Integrations

APPROVED

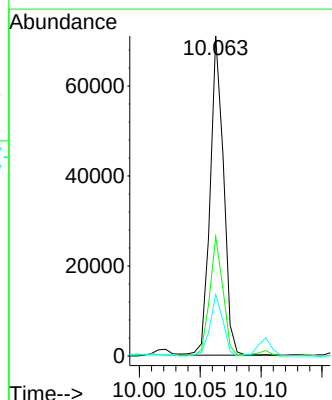
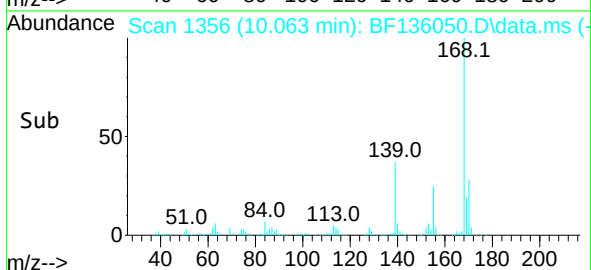
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

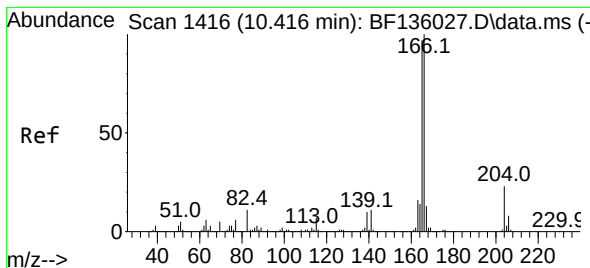


#55
Dibenzofuran
Concen: 2.376 ng
RT: 10.063 min Scan# 1356
Delta R.T. -0.012 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32



Tgt Ion:168 Resp: 54066
Ion Ratio Lower Upper
168 100
139 37.3 29.4 44.0
169 19.3 10.5 15.7#





#58

Fluorene

Concen: 7.637 ng

RT: 10.410 min Scan# 1416

Delta R.T. -0.006 min

Lab File: BF136050.D

Acq: 31 Oct 2023 14:32

Instrument :

BNA_F

ClientSampleId :

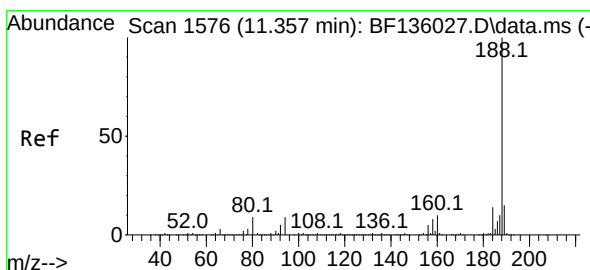
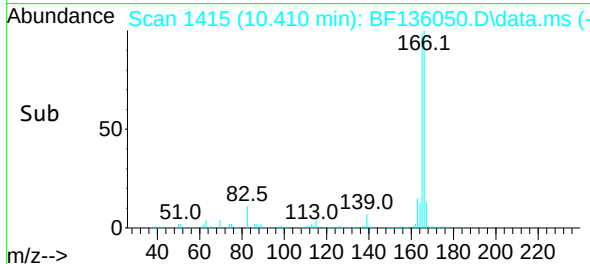
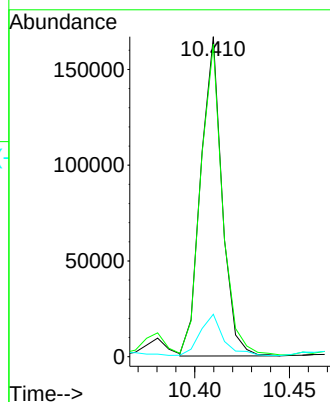
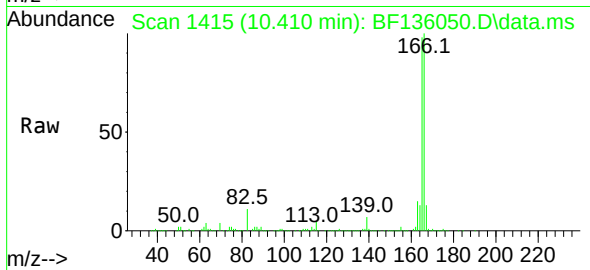
R-4(5-10)DL

Tgt Ion:166	Resp: 13010
Ion Ratio	Lower Upper
166	100
165	97.7 77.7 116.5
167	13.3 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

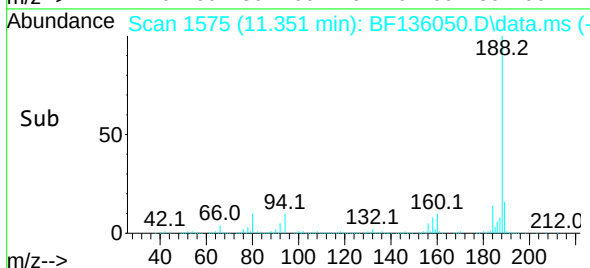
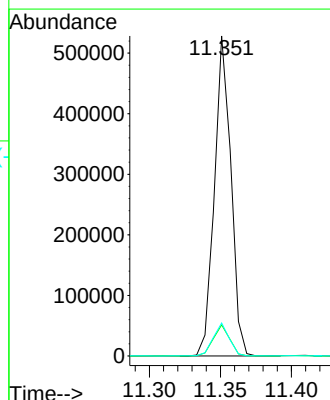
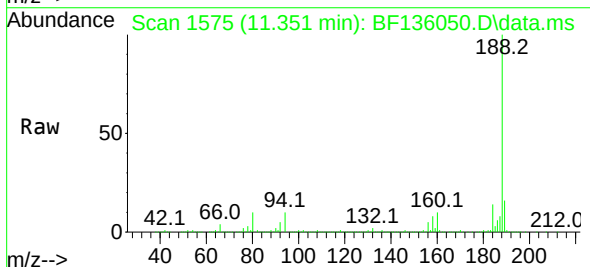
RT: 11.351 min Scan# 1575

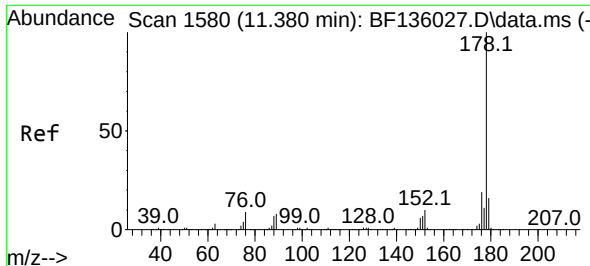
Delta R.T. -0.006 min

Lab File: BF136050.D

Acq: 31 Oct 2023 14:32

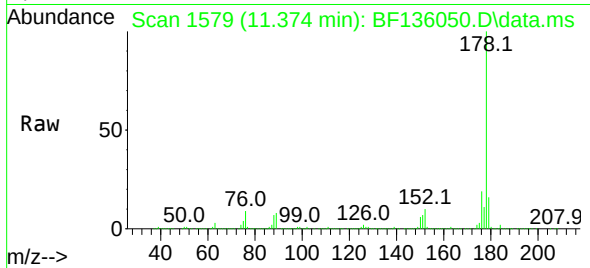
Tgt Ion:188	Resp: 425576
Ion Ratio	Lower Upper
188	100
94	9.7 7.2 10.8
80	10.3 7.4 11.0





#71
Phenanthrene
Concen: 30.227 ng
RT: 11.374 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

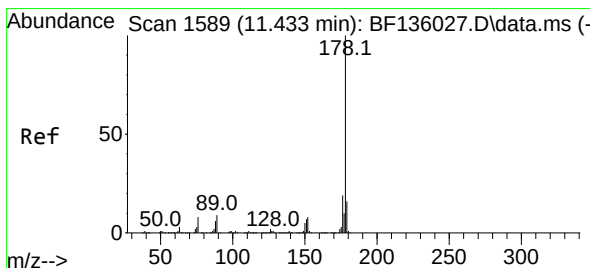
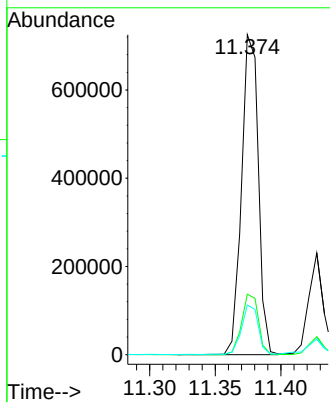
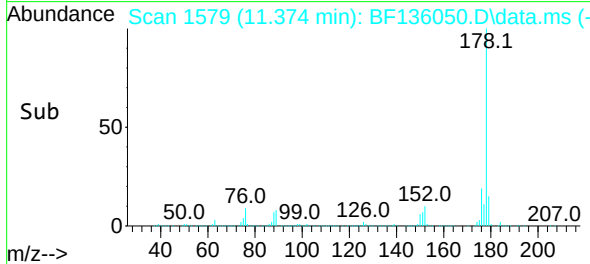
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



Tgt Ion:178 Resp: 64770
Ion Ratio Lower Upper
178 100
176 18.9 15.5 23.3
179 15.5 12.9 19.3

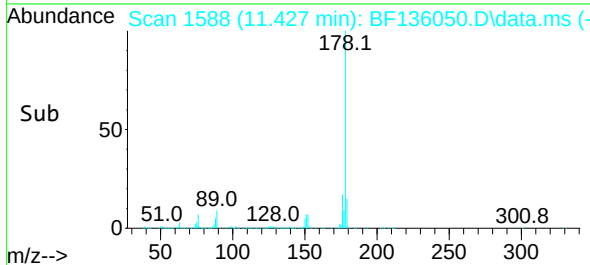
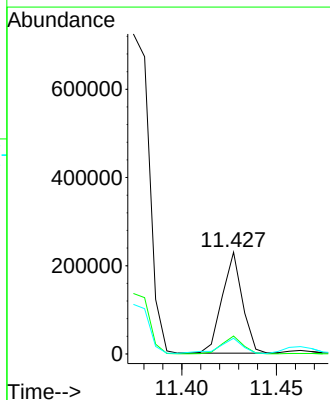
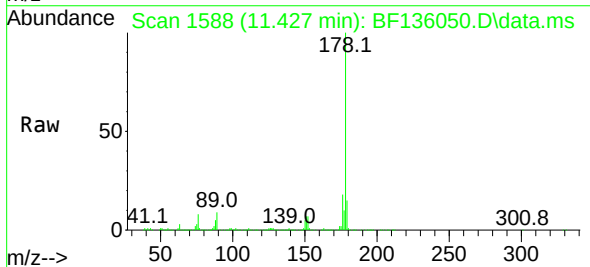
Manual Integrations
APPROVED

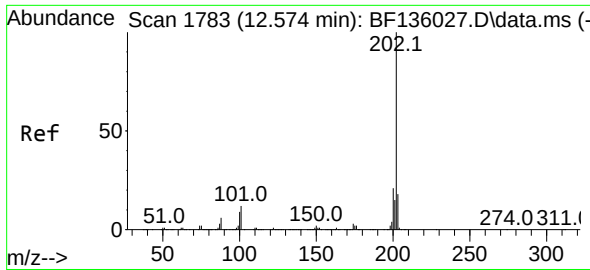
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#72
Anthracene
Concen: 7.770 ng
RT: 11.427 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

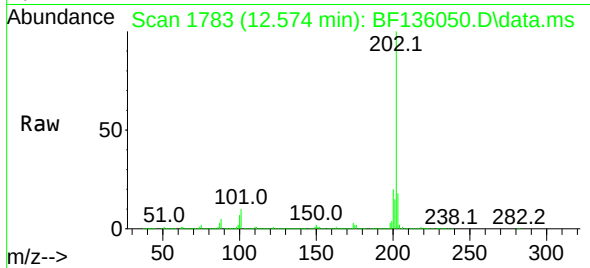
Tgt Ion:178 Resp: 170599
Ion Ratio Lower Upper
178 100
176 17.6 15.0 22.4
179 15.5 12.6 18.8





#75
Fluoranthene
Concen: 23.669 ng
RT: 12.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

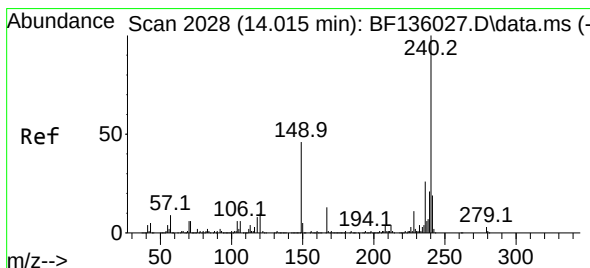
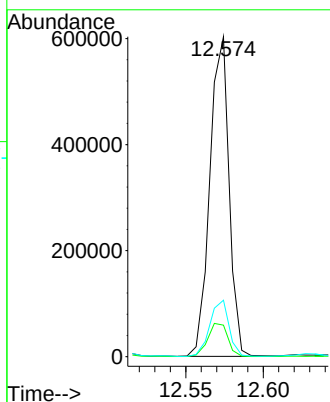
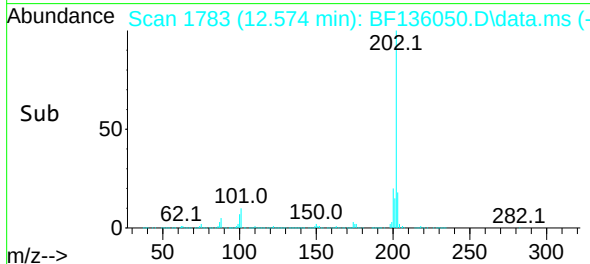
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



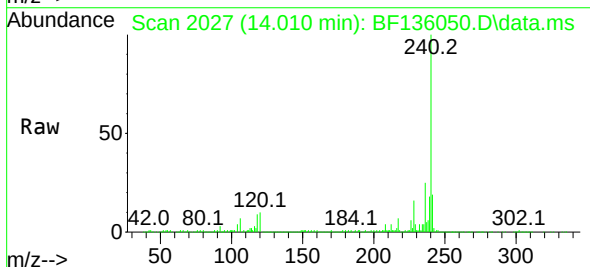
Tgt Ion:202 Resp: 52102
Ion Ratio Lower Upper
202 100
101 9.8 0.0 31.8
203 17.6 0.0 37.9

Manual Integrations
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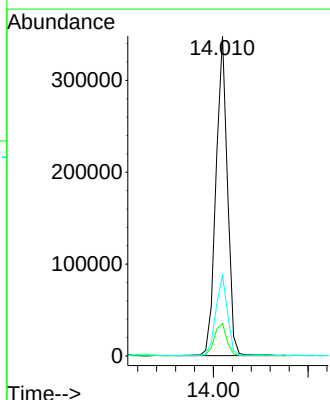
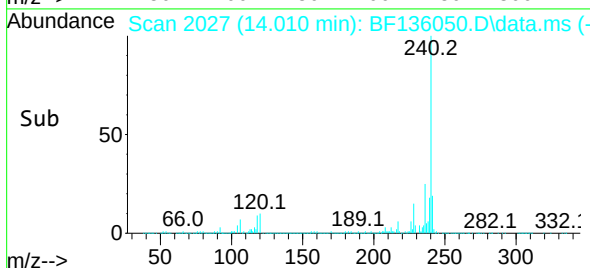
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

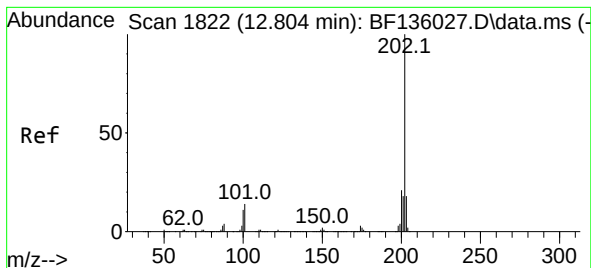


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32



Tgt Ion:240 Resp: 291753
Ion Ratio Lower Upper
240 100
120 10.1 7.6 11.4
236 25.2 20.6 31.0





#78

Pyrene

Concen: 22.528 ng

RT: 12.804 min Scan# 1822

Delta R.T. 0.000 min

Lab File: BF136050.D

Acq: 31 Oct 2023 14:32

Instrument :

BNA_F

ClientSampleId :

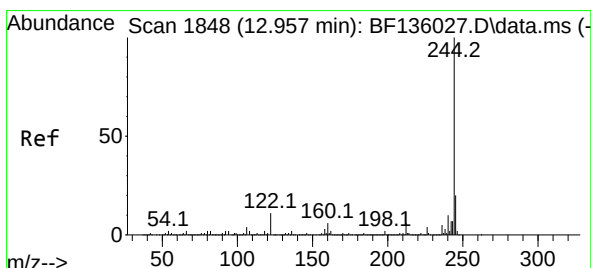
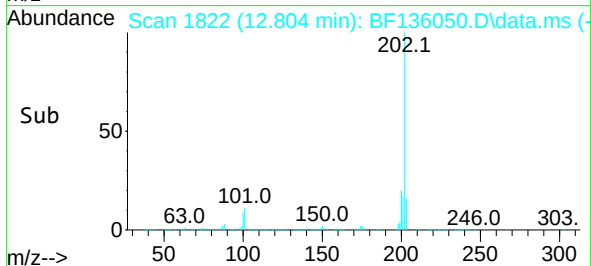
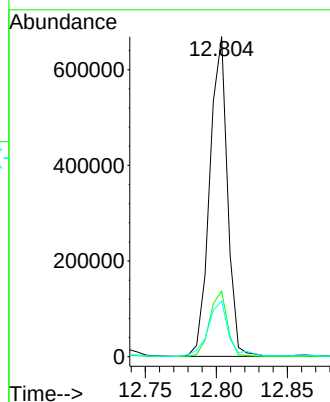
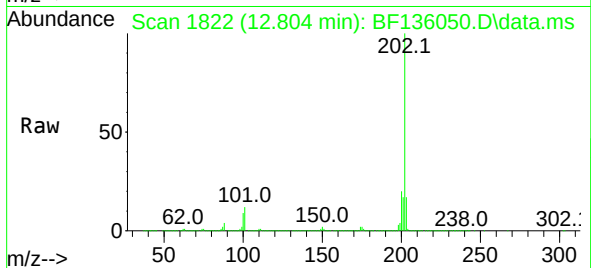
R-4(5-10)DL

Tgt Ion:	202	Resp:	57947
Ion Ratio	Lower	Upper	
202	100		
200	20.5	17.0	25.4
203	17.4	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#79

Terphenyl-d14

Concen: 11.636 ng

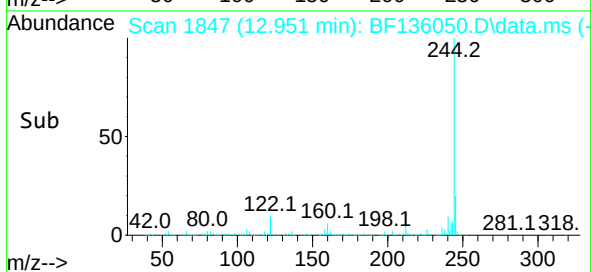
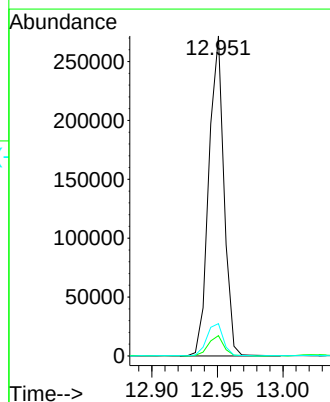
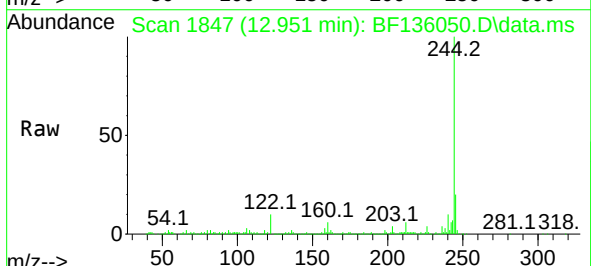
RT: 12.951 min Scan# 1847

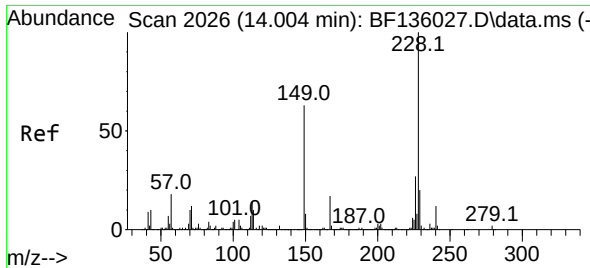
Delta R.T. -0.006 min

Lab File: BF136050.D

Acq: 31 Oct 2023 14:32

Tgt Ion:	244	Resp:	218452
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.1	7.7
122	10.1	8.6	12.8





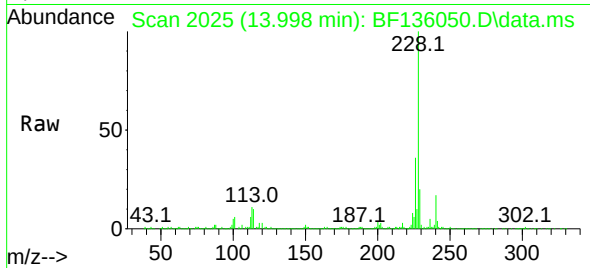
#81
Benzo(a)anthracene
Concen: 15.451 ng m
RT: 13.998 min Scan# 2025
Delta R.T. -0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

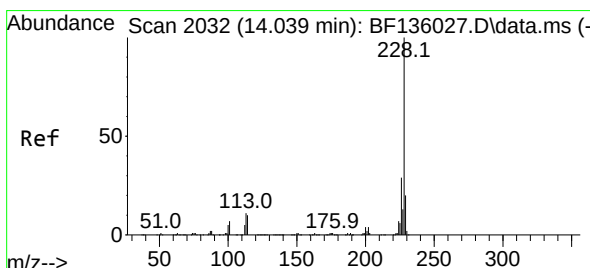
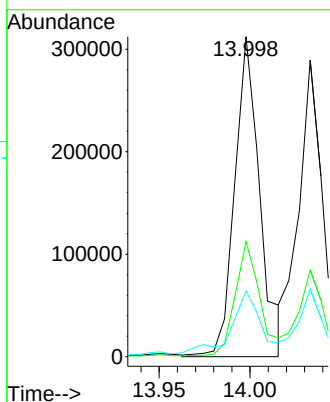
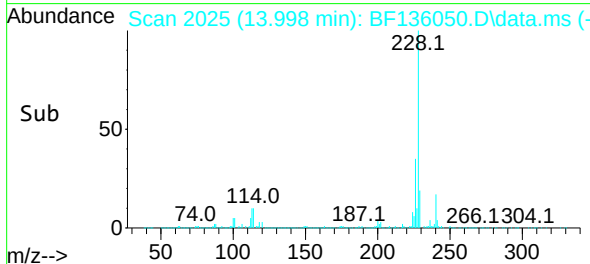


Tgt Ion:228 Resp: 298425
Ion Ratio Lower Upper
228 100
226 36.0 21.5 32.3
229 20.5 15.8 23.6

Manual Integrations

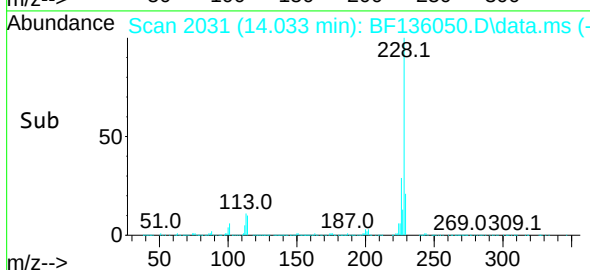
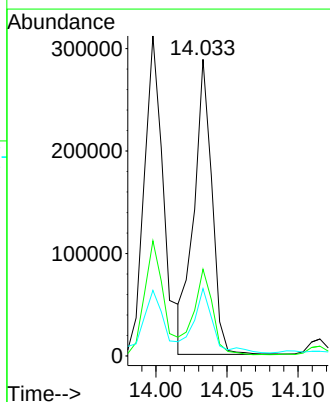
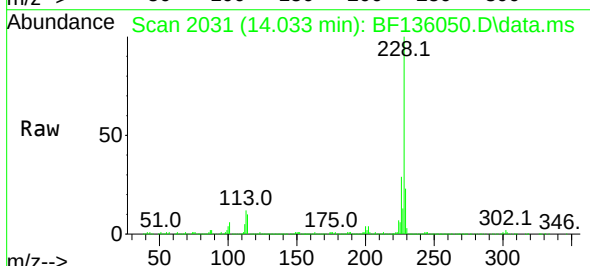
APPROVED

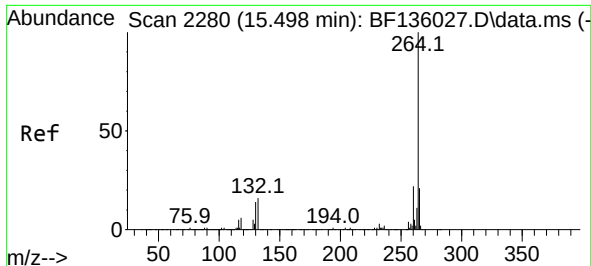
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#83
Chrysene
Concen: 13.328 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

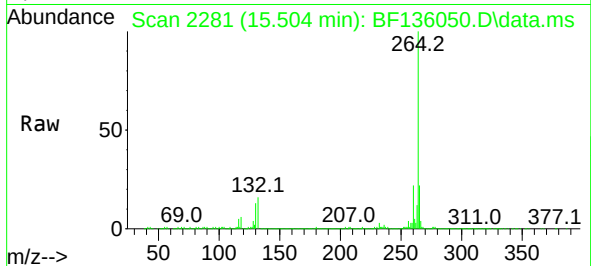
Tgt Ion:228 Resp: 253517
Ion Ratio Lower Upper
228 100
226 29.3 23.5 35.3
229 22.7 16.0 24.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

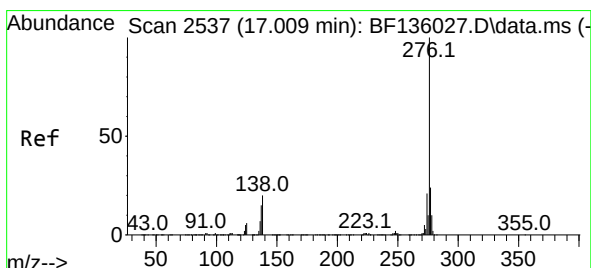
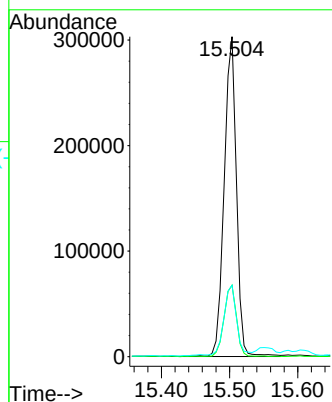
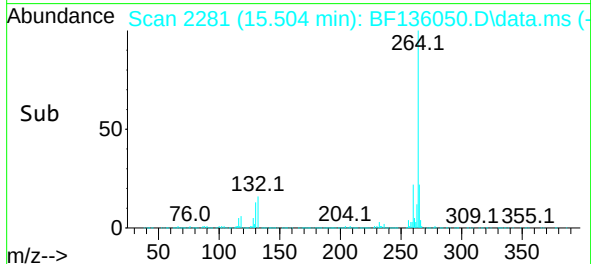
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



Tgt Ion:264 Resp: 37845
Ion Ratio Lower Upper
264 100
260 22.4 17.9 26.9
265 22.3 16.8 25.2

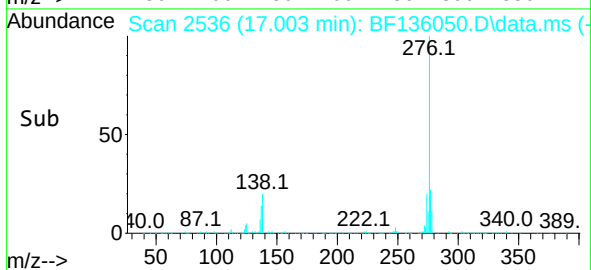
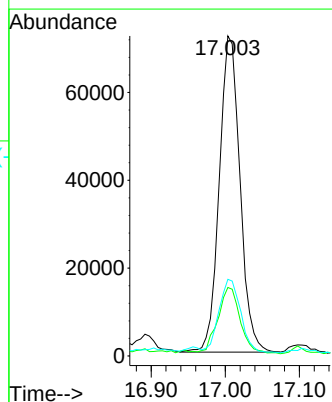
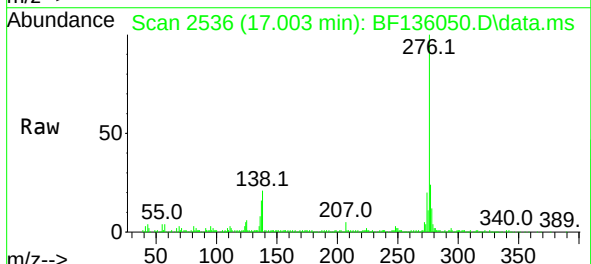
Manual Integrations
APPROVED

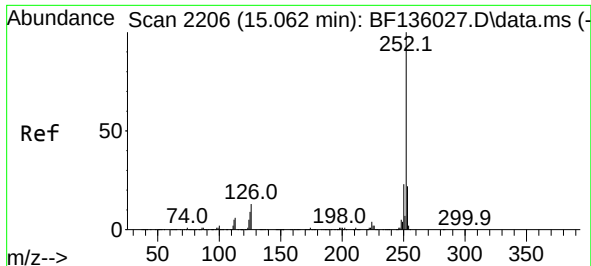
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 5.666 ng
RT: 17.003 min Scan# 2536
Delta R.T. -0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

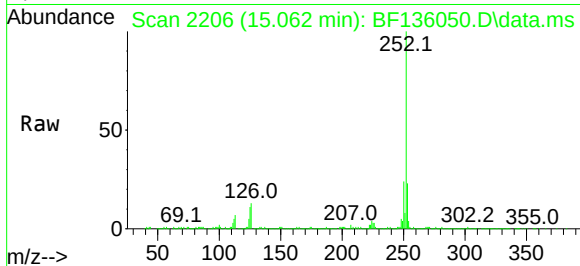
Tgt Ion:276 Resp: 140147
Ion Ratio Lower Upper
276 100
138 22.8 20.4 30.6
277 24.4 20.2 30.2





#88
Benzo(b)fluoranthene
Concen: 13.887 ng m
RT: 15.062 min Scan# 2110
Delta R.T. 0.000 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

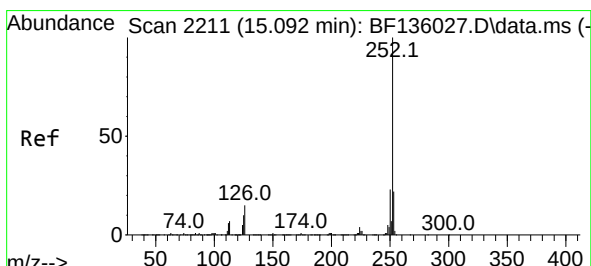
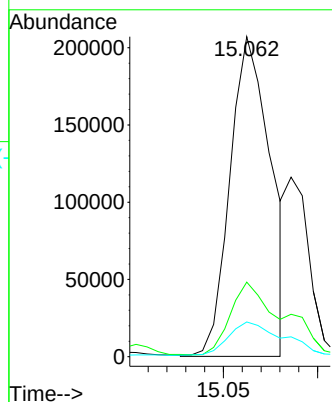
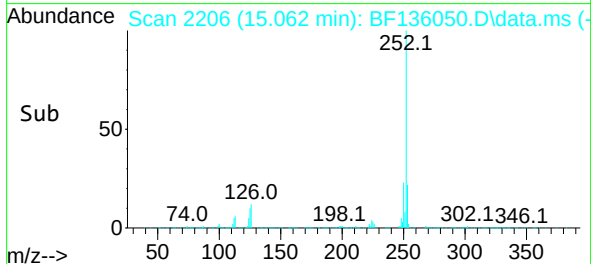
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



Tgt Ion:252 Resp: 31097
Ion Ratio Lower Upper
252 100
253 23.3 17.7 26.5
125 10.9 7.5 11.3

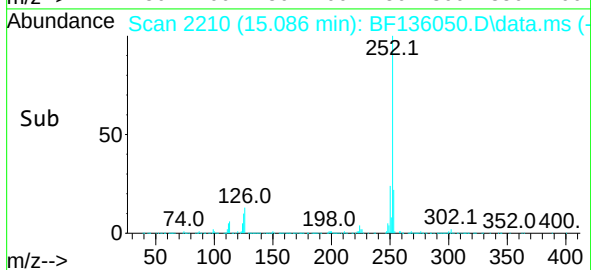
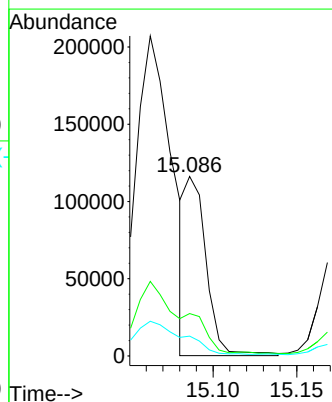
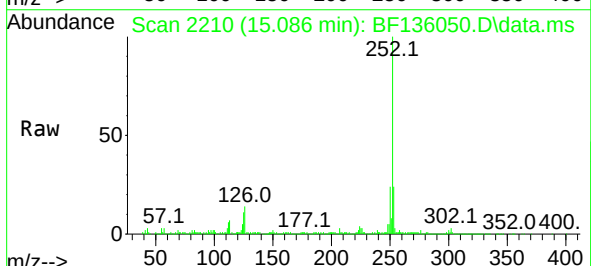
Manual Integrations
APPROVED

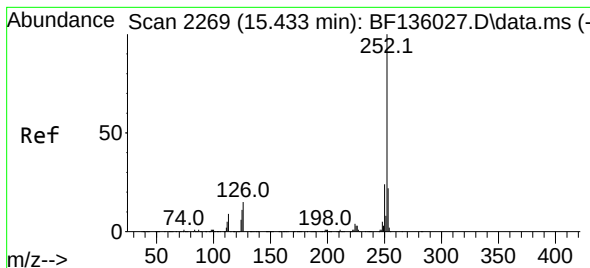
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#89
Benzo(k)fluoranthene
Concen: 4.541 ng m
RT: 15.086 min Scan# 2210
Delta R.T. -0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

Tgt Ion:252 Resp: 100609
Ion Ratio Lower Upper
252 100
253 23.7 17.4 26.0
125 11.0 8.0 12.0





#90

Benzo(a)pyrene

Concen: 13.399 ng

RT: 15.433 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF136050.D

Acq: 31 Oct 2023 14:32

Instrument :

BNA_F

ClientSampleId :

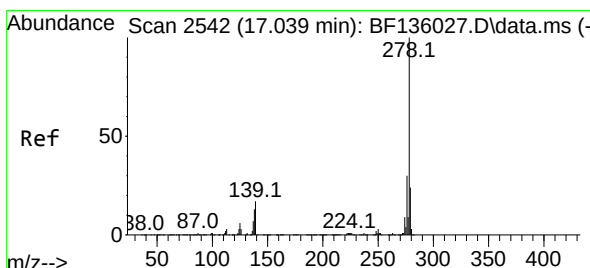
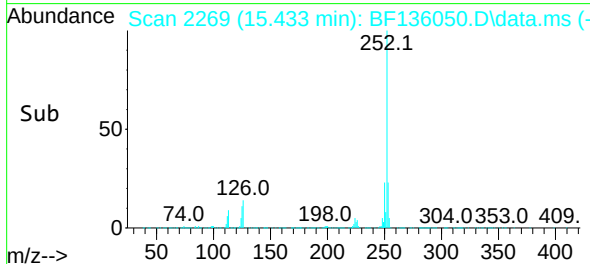
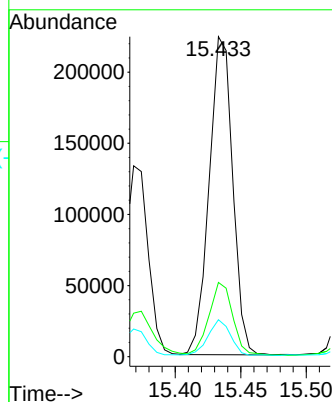
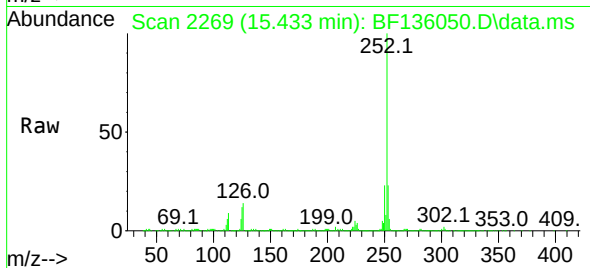
R-4(5-10)DL

Tgt Ion:252 Resp: 278789
 Ion Ratio Lower Upper
 252 100
 253 23.2 17.3 25.9
 125 11.6 9.0 13.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.020 ng

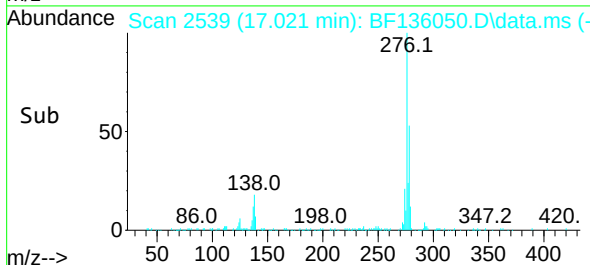
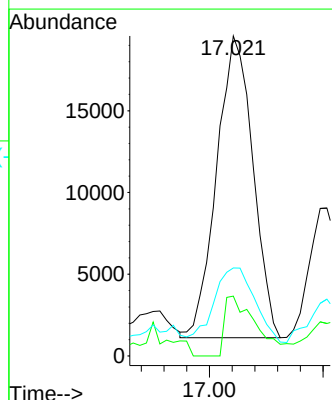
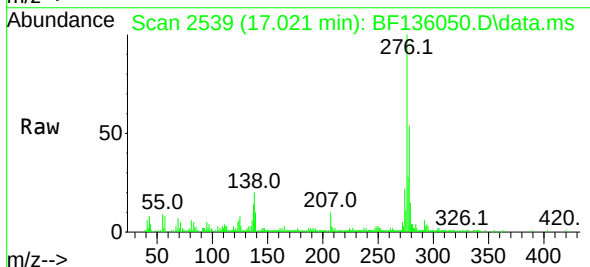
RT: 17.021 min Scan# 2539

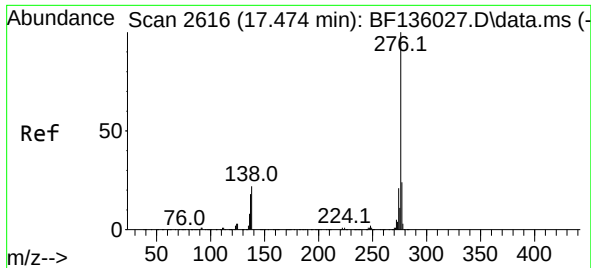
Delta R.T. -0.018 min

Lab File: BF136050.D

Acq: 31 Oct 2023 14:32

Tgt Ion:278 Resp: 40928
 Ion Ratio Lower Upper
 278 100
 139 18.7 13.7 20.5
 279 27.5 19.0 28.6





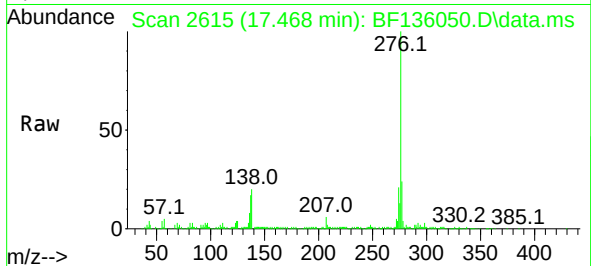
#92
Benzo(g,h,i)perylene
Concen: 8.228 ng
RT: 17.468 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF136050.D
Acq: 31 Oct 2023 14:32

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL



Tgt Ion:276 Resp: 130905
Ion Ratio Lower Upper
276 100
277 23.6 19.0 28.4
138 20.2 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023

