

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136054.D
 Acq On : 31 Oct 2023 16:33
 Operator : CG\JU
 Sample : 04805-04 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 H-1(0-5)

Manual Integrations
 APPROVED

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

Quant Time: Oct 31 16:59:24 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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	113481	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	385000	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	167347	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	305426	20.000	ng	0.00
76) Chrysene-d12	14.022	240	270421	20.000	ng	# 0.00
86) Perylene-d12	15.516	264	242271	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	400409	55.446	ng	0.00
7) Phenol-d6	6.451	99	465944	51.785	ng	0.00
23) Nitrobenzene-d5	7.381	82	251206	39.333	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	97742	54.720	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	378129	36.020	ng	0.00
79) Terphenyl-d14	12.957	244	442113	25.407	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	197938	10.662	ng	100
37) 2-Methylnaphthalene	8.816	142	47201	3.792	ng	96
38) 1-Methylnaphthalene	8.916	142	112015	9.669	ng	99
46) 1,1'-Biphenyl	9.281	154	52020	4.078	ng	99
49) Acenaphthylene	9.722	152	456746	31.132	ng	98
52) Acenaphthene	9.892	154	74680	8.007	ng	98
55) Dibenzofuran	10.069	168	117747	8.658	ng	# 95
58) Fluorene	10.410	166	157784	15.496	ng	96
71) Phenanthrene	11.386	178	1595223	103.732	ng	100
72) Anthracene	11.433	178	799252	50.720	ng	100
73) Carbazole	11.586	167	57027	4.165	ng	98
75) Fluoranthene	12.586	202	2284063	144.577	ng	99
78) Pyrene	12.822	202	2579687	108.201	ng	99
81) Benzo(a)anthracene	14.010	228	1502577m	83.930	ng	
83) Chrysene	14.051	228	1335655	75.756	ng	97
87) Indeno(1,2,3-cd)pyrene	17.033	276	438870	27.717	ng	95
88) Benzo(b)fluoranthene	15.080	252	1298085m	90.550	ng	
89) Benzo(k)fluoranthene	15.104	252	409646m	28.880	ng	
90) Benzo(a)pyrene	15.457	252	1034305	77.651	ng	97
91) Dibenzo(a,h)anthracene	17.045	278	127833	9.856	ng	94
92) Benzo(g,h,i)perylene	17.498	276	424303	29.896	ng	99

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

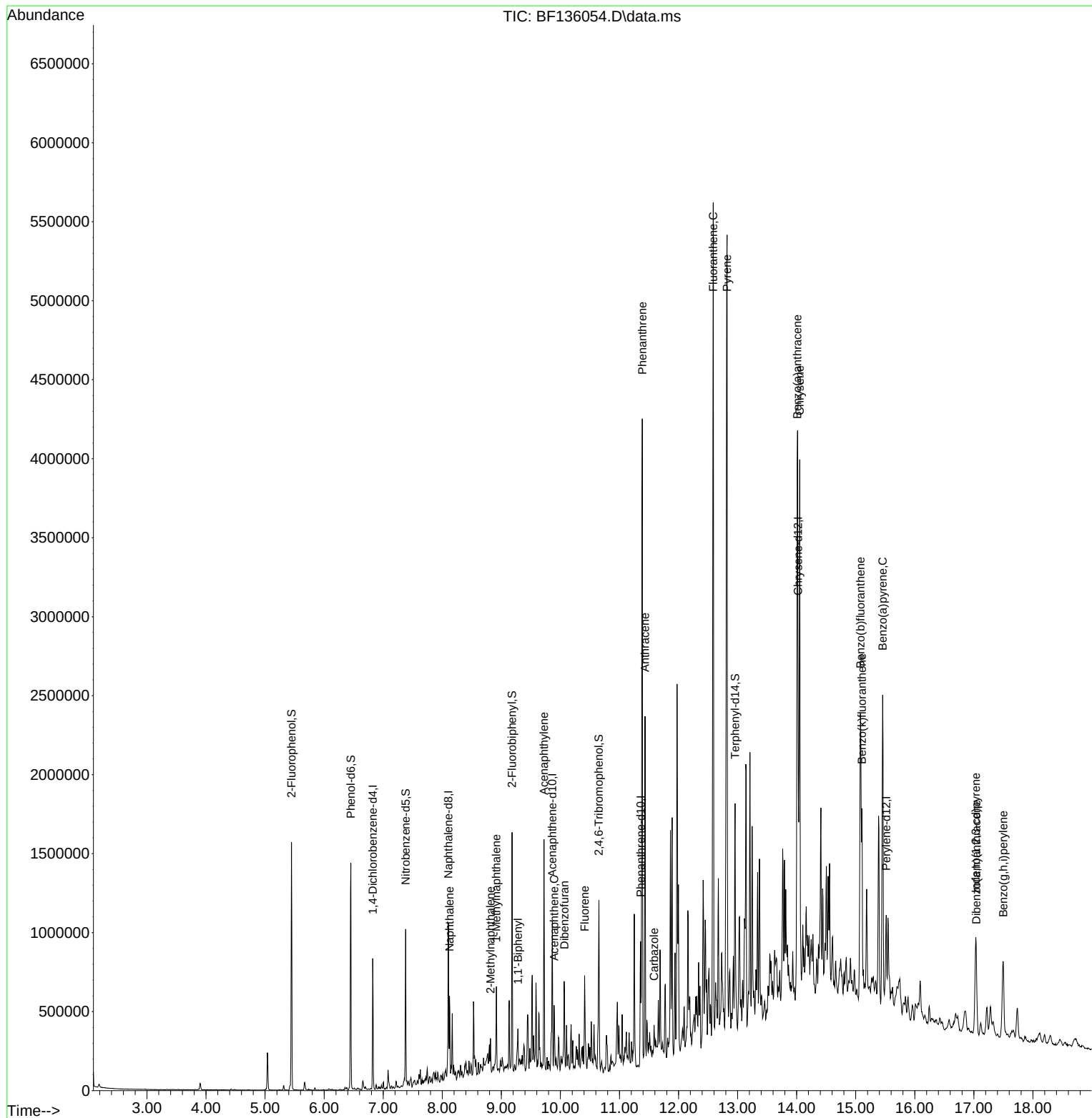
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136054.D
Acq On : 31 Oct 2023 16:33
Operator : CG\JU
Sample : 04805-04 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

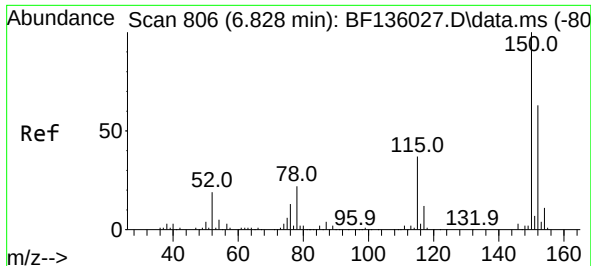
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)

Quant Time: Oct 31 16:59:24 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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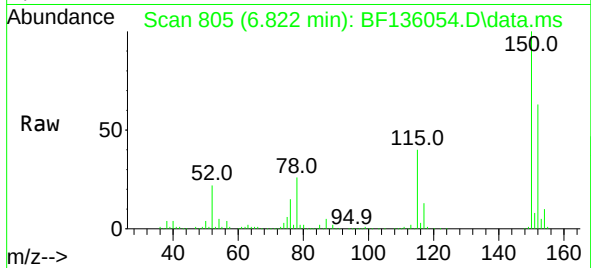
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

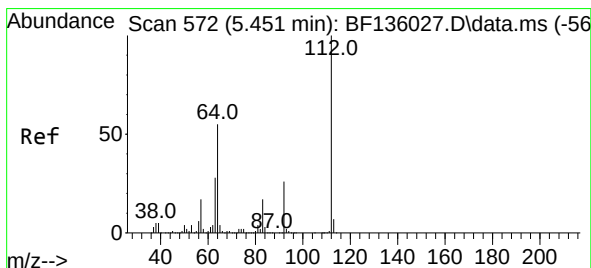
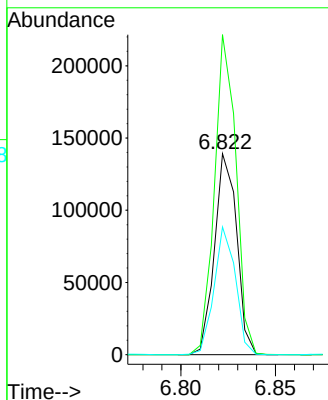
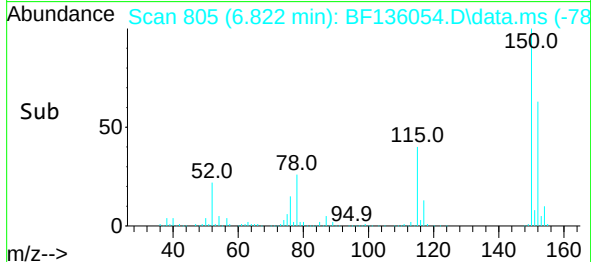
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)



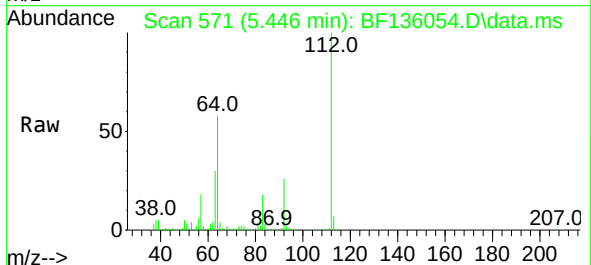
Tgt Ion:152 Resp: 11348
Ion Ratio Lower Upper
152 100
150 159.2 126.4 189.6
115 63.6 47.0 70.4

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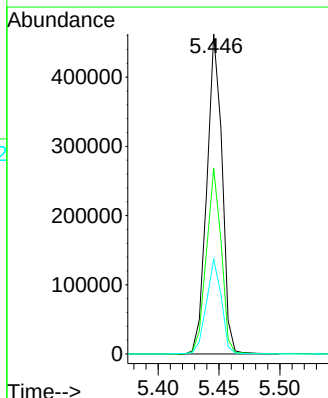
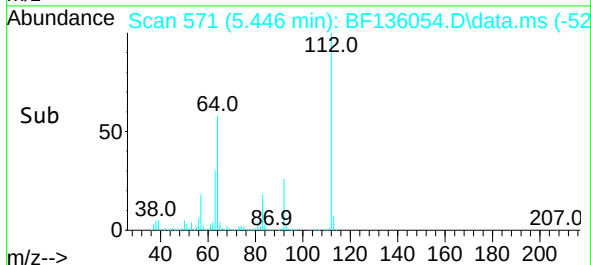
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

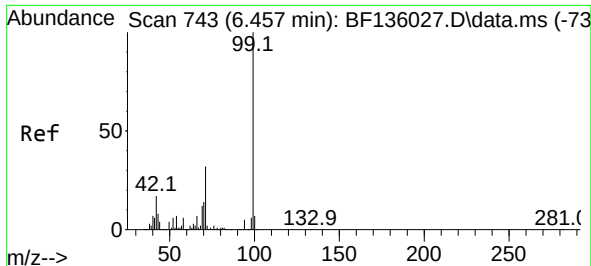


#5
2-Fluorophenol
Concen: 55.446 ng
RT: 5.446 min Scan# 571
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33



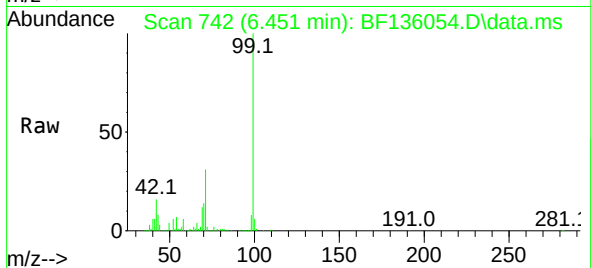
Tgt Ion:112 Resp: 400409
Ion Ratio Lower Upper
112 100
64 58.0 43.9 65.9
63 29.6 22.4 33.6





#7
Phenol-d6
Concen: 51.785 ng
RT: 6.451 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

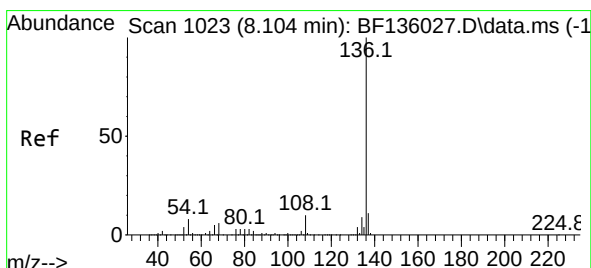
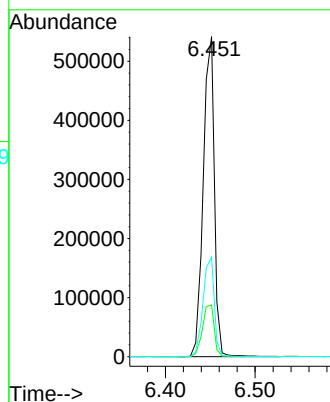
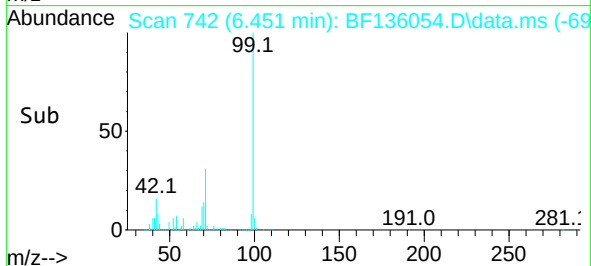
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)



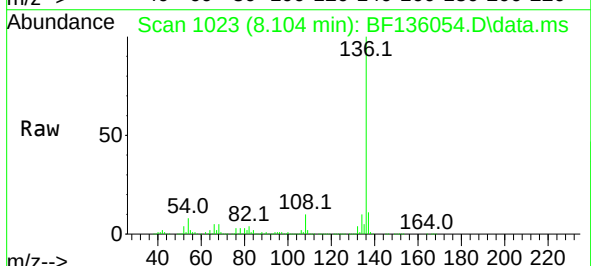
Tgt Ion: 99 Resp: 465944
Ion Ratio Lower Upper
99 100
42 16.2 13.7 20.5
71 31.0 25.9 38.9

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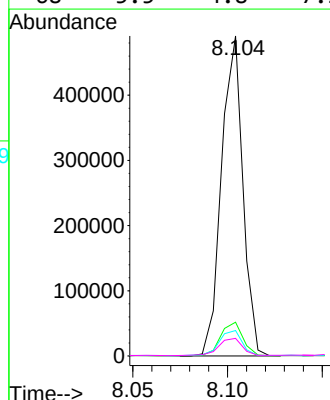
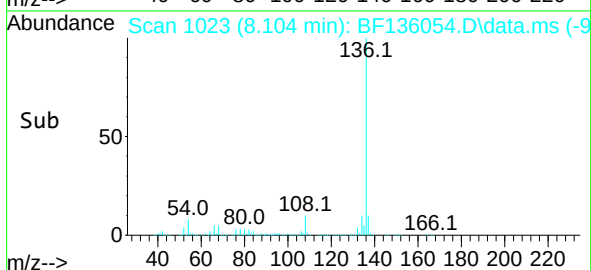
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

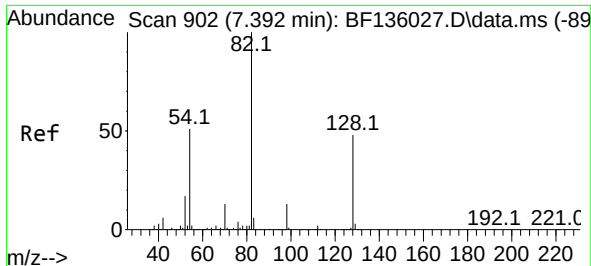


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33



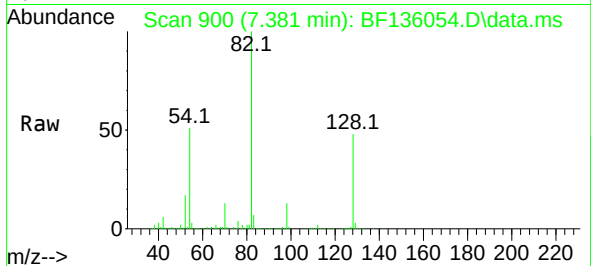
Tgt Ion:136 Resp: 385000
Ion Ratio Lower Upper
136 100
137 10.5 8.6 13.0
54 8.0 6.6 9.8
68 5.5 4.8 7.2





#23
Nitrobenzene-d5
Concen: 39.333 ng
RT: 7.381 min Scan# 902
Delta R.T. -0.012 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

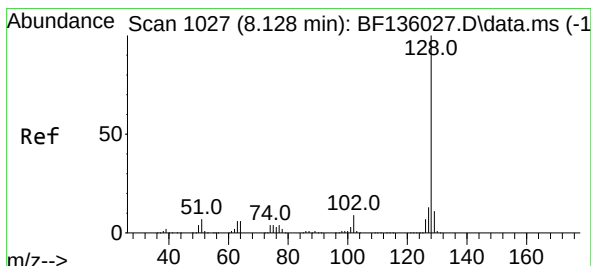
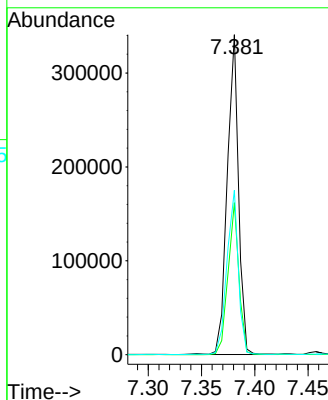
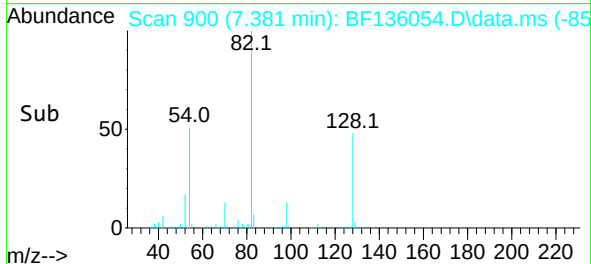
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)



Tgt Ion: 82 Resp: 251200
Ion Ratio Lower Upper
82 100
128 47.5 38.6 57.8
54 51.4 40.8 61.2

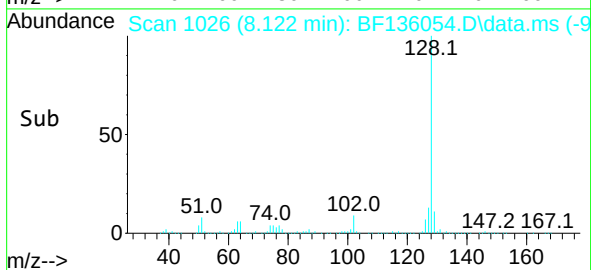
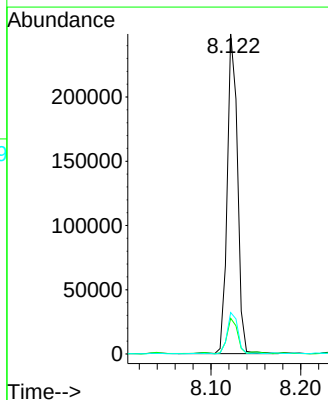
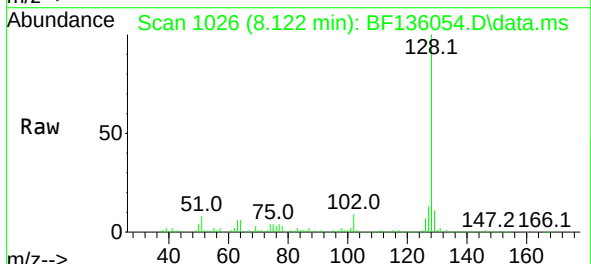
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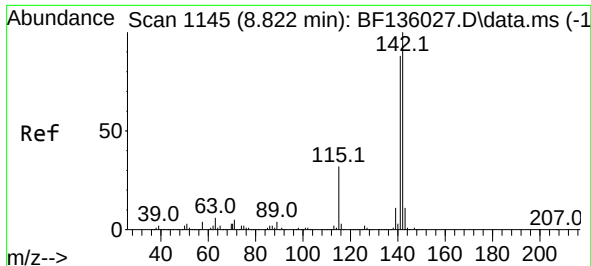
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#31
Naphthalene
Concen: 10.662 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:128 Resp: 197938
Ion Ratio Lower Upper
128 100
129 11.2 8.9 13.3
127 13.0 10.5 15.7





#37

2-Methylnaphthalene

Concen: 3.792 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

Tgt Ion:142 Resp: 4720

Ion Ratio Lower Upper

142 100

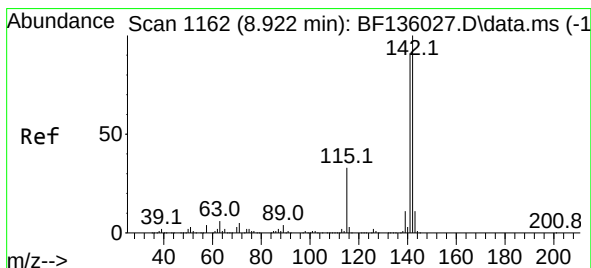
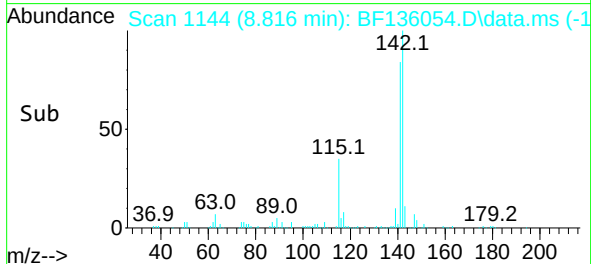
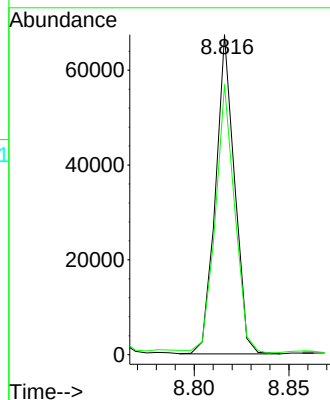
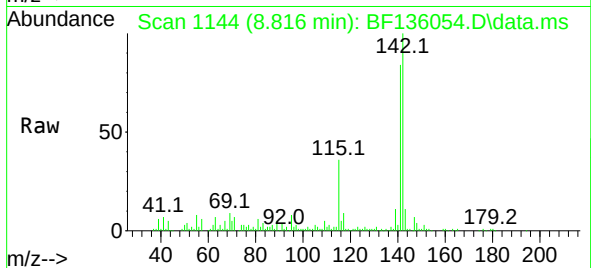
141 84.4 70.4 105.6

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#38

1-Methylnaphthalene

Concen: 9.669 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136054.D

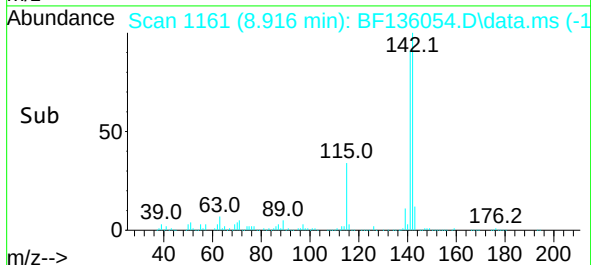
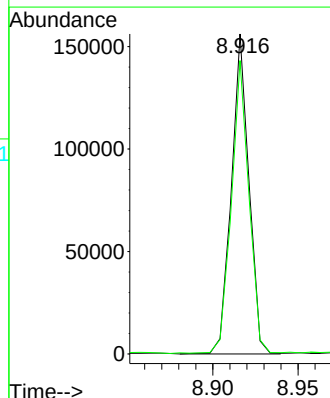
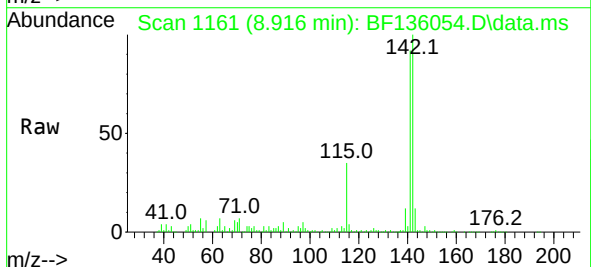
Acq: 31 Oct 2023 16:33

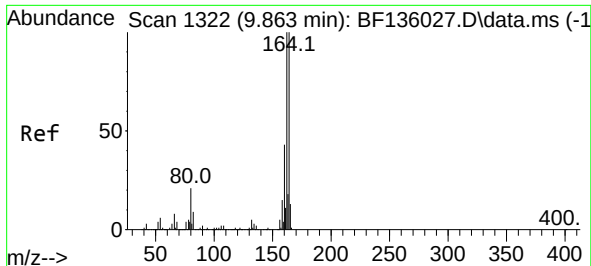
Tgt Ion:142 Resp: 112015

Ion Ratio Lower Upper

142 100

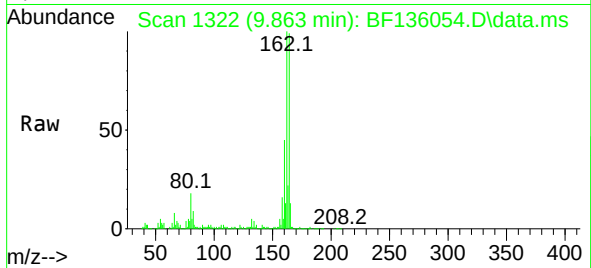
141 91.7 72.6 109.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

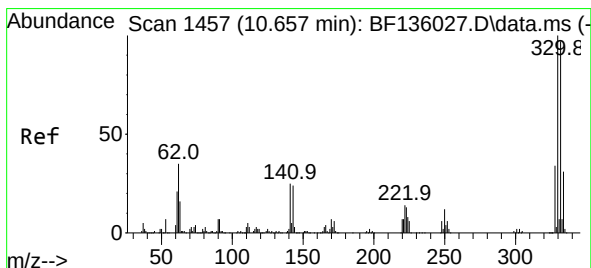
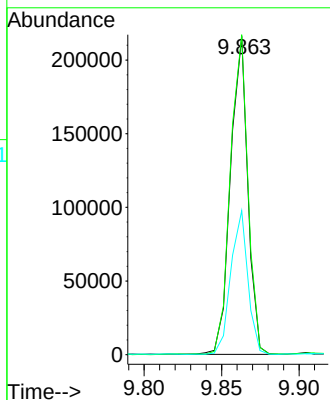
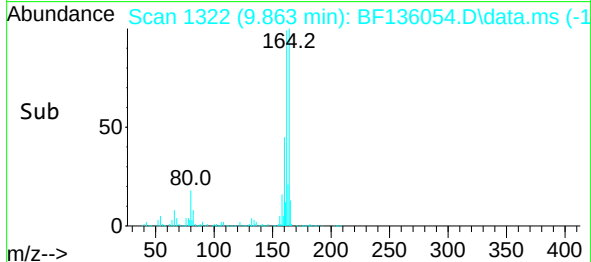
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)



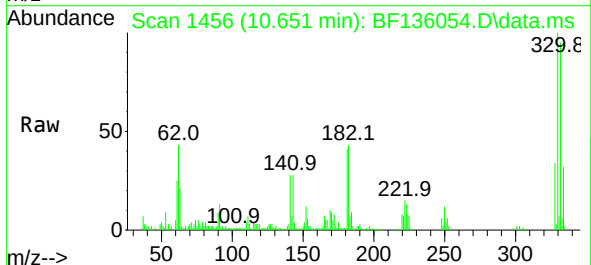
Tgt Ion:164 Resp: 16734
Ion Ratio Lower Upper
164 100
162 100.5 80.1 120.1
160 45.2 34.8 52.2

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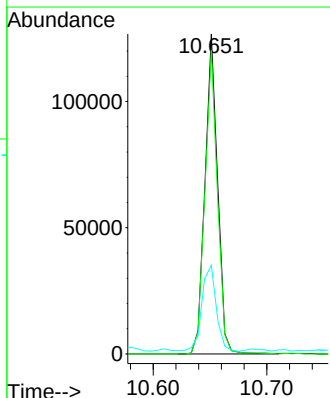
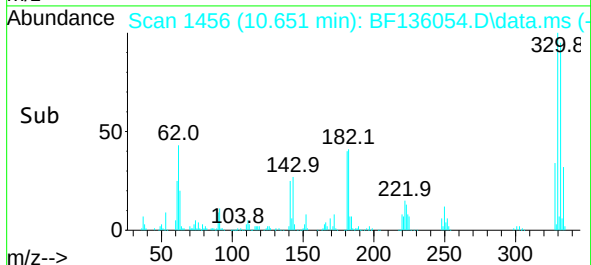
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

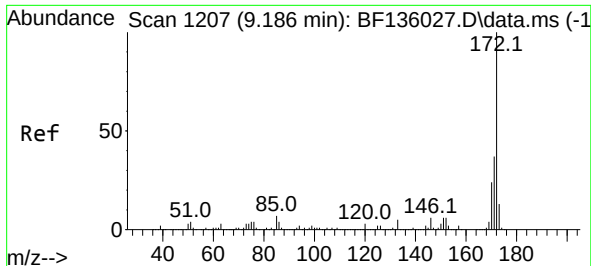


#42
2,4,6-Tribromophenol
Concen: 54.720 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33



Tgt Ion:330 Resp: 97742
Ion Ratio Lower Upper
330 100
332 94.1 76.9 115.3
141 30.9 23.2 34.8





#45

2-Fluorobiphenyl

Concen: 36.020 ng

RT: 9.181 min Scan# 1207

Delta R.T. -0.006 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

Tgt Ion:172 Resp: 378129

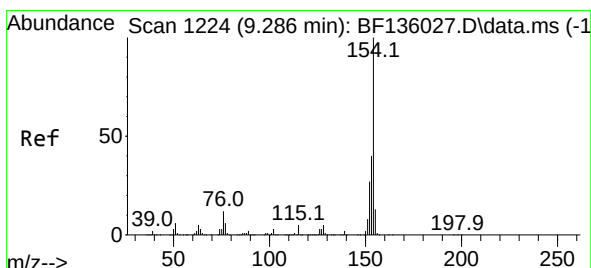
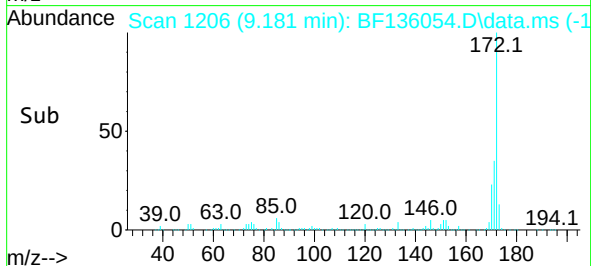
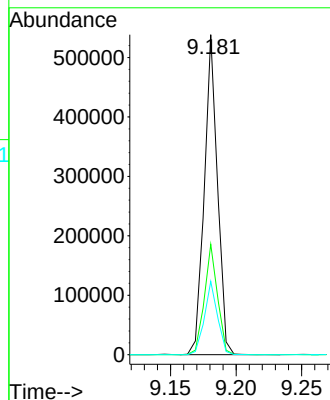
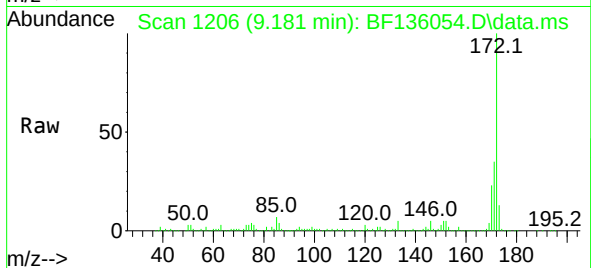
Ion	Ratio	Lower	Upper
172	100		
171	34.5	29.4	44.0
170	22.9	19.3	28.9

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#46

1,1'-Biphenyl

Concen: 4.078 ng

RT: 9.281 min Scan# 1223

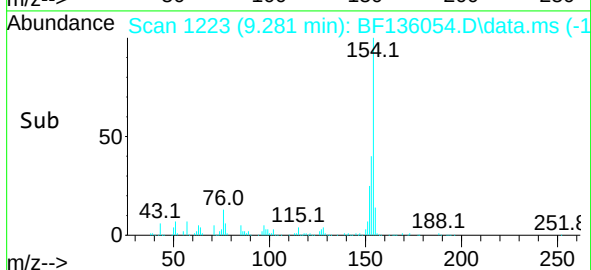
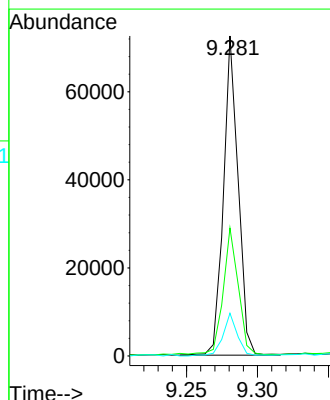
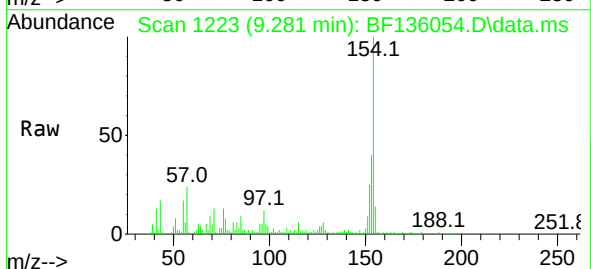
Delta R.T. -0.006 min

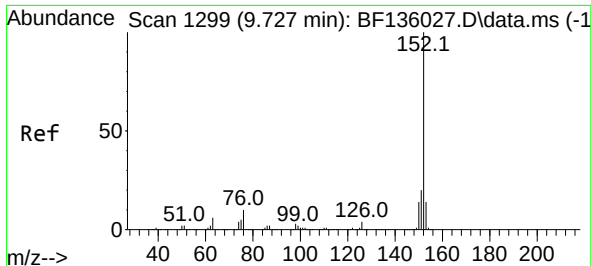
Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Tgt Ion:154 Resp: 52020

Ion	Ratio	Lower	Upper
154	100		
153	40.0	20.1	60.1
76	13.3	0.0	32.5





#49

Acenaphthylene

Concen: 31.132 ng

RT: 9.722 min Scan# 1299

Delta R.T. -0.006 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

Tgt Ion:152 Resp: 456740

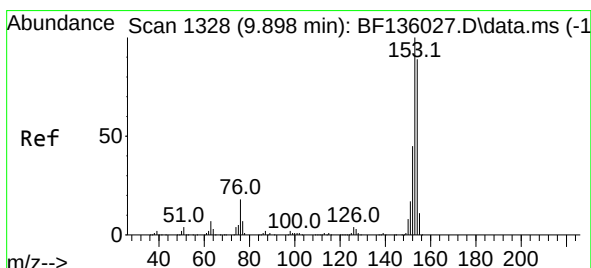
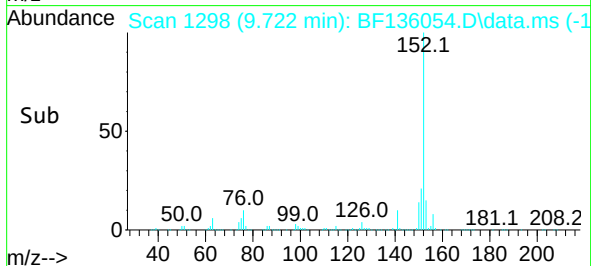
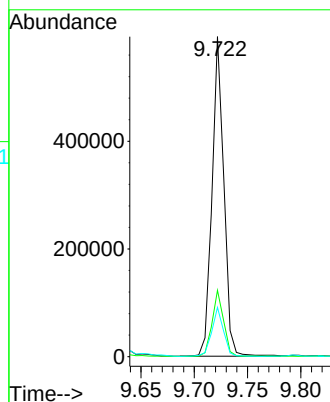
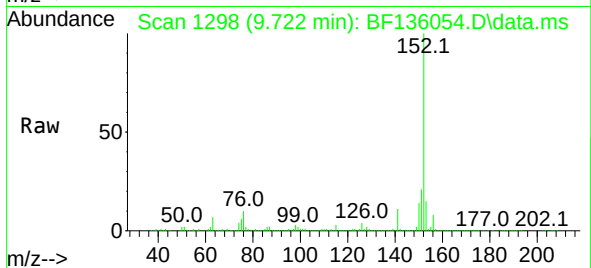
Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.1	24.1
153	15.4	11.4	17.2

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#52

Acenaphthene

Concen: 8.007 ng

RT: 9.892 min Scan# 1327

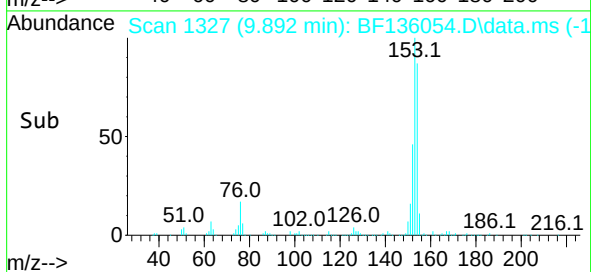
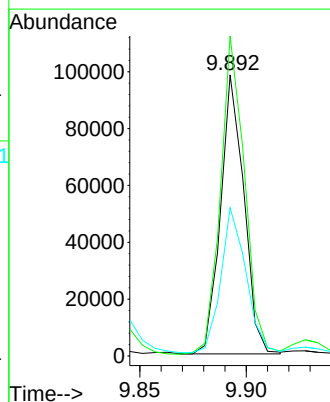
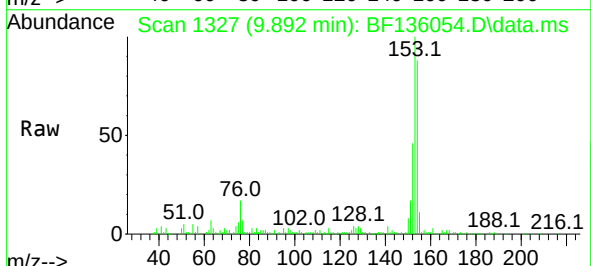
Delta R.T. -0.006 min

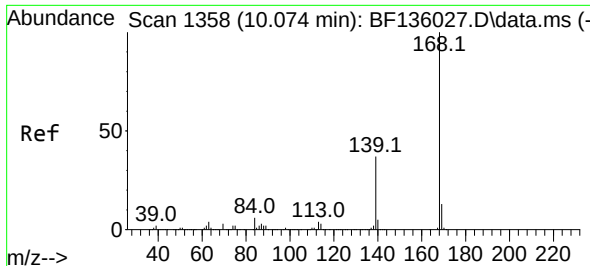
Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Tgt Ion:154 Resp: 74680

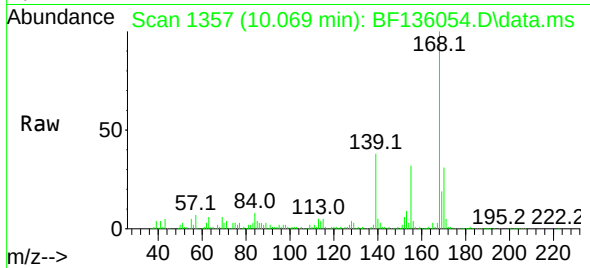
Ion	Ratio	Lower	Upper
154	100		
153	113.8	89.9	134.9
152	52.7	40.2	60.2





#55
Dibenzenofuran
Concen: 8.658 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

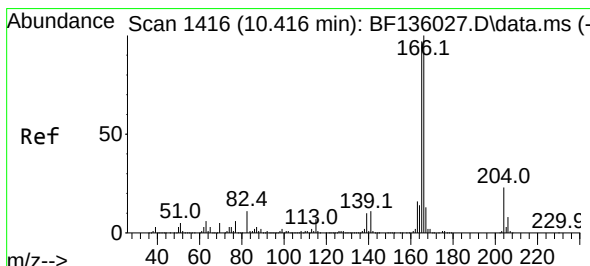
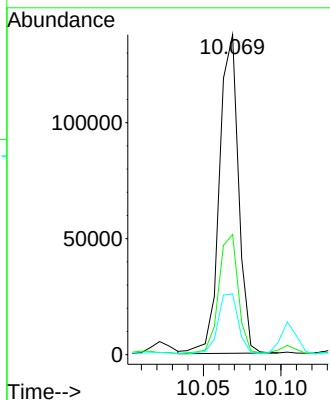
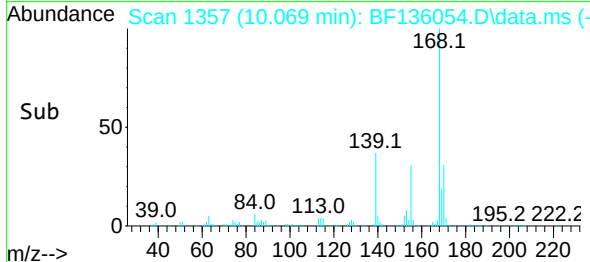
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)



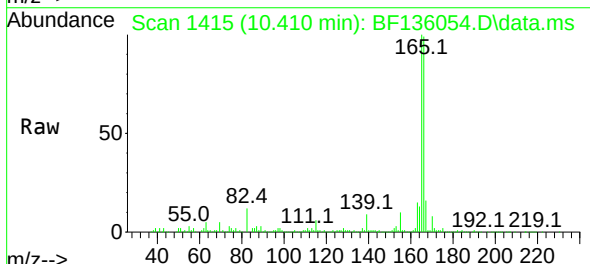
Tgt Ion:168 Resp: 11774
Ion Ratio Lower Upper
168 100
139 37.5 29.4 44.0
169 19.0 10.5 15.7

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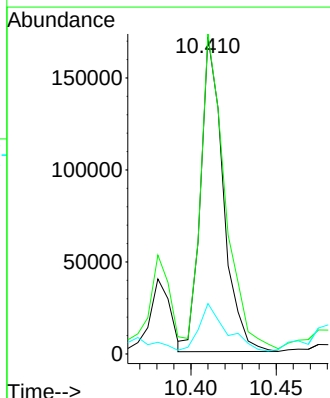
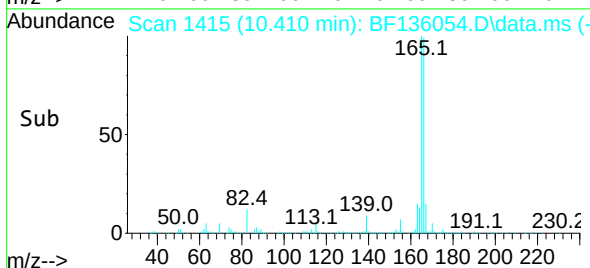
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

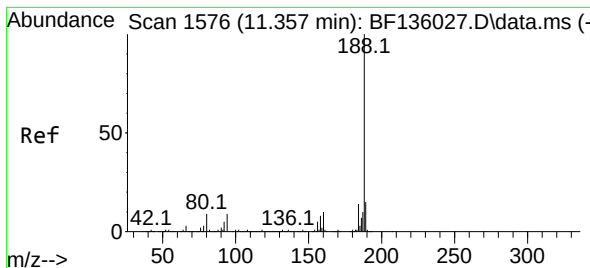


#58
Fluorene
Concen: 15.496 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33



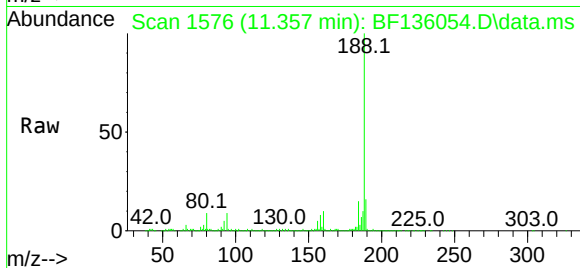
Tgt Ion:166 Resp: 157784
Ion Ratio Lower Upper
166 100
165 100.9 77.7 116.5
167 15.9 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

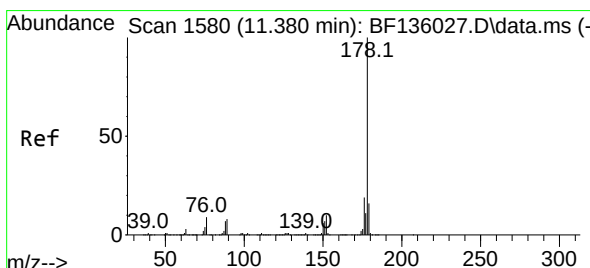
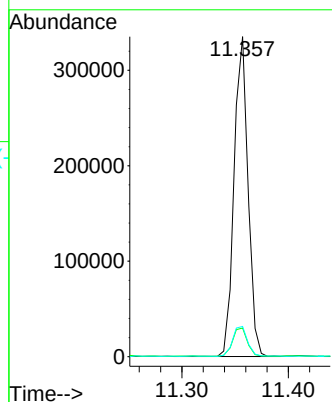
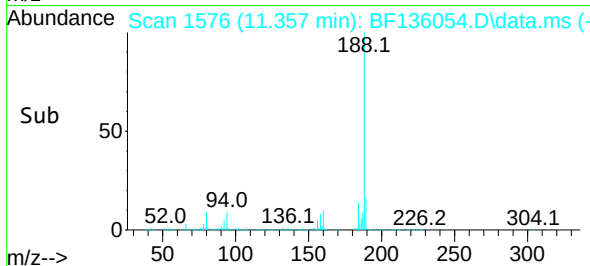
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)



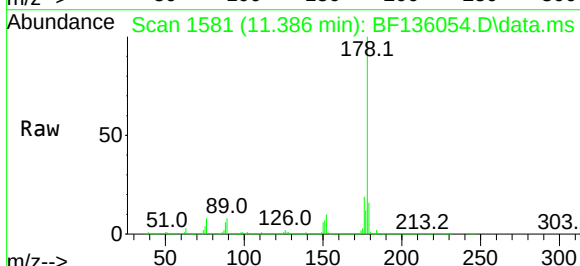
Tgt Ion:188 Resp: 305420
Ion Ratio Lower Upper
188 100
94 9.0 7.2 10.8
80 9.5 7.4 11.0

Manual Integrations
APPROVED

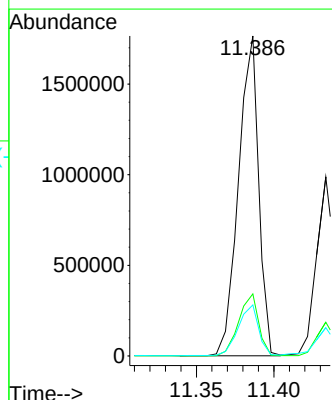
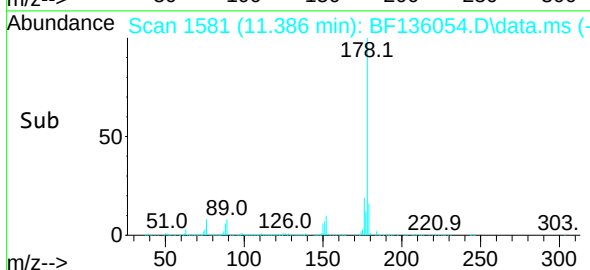
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

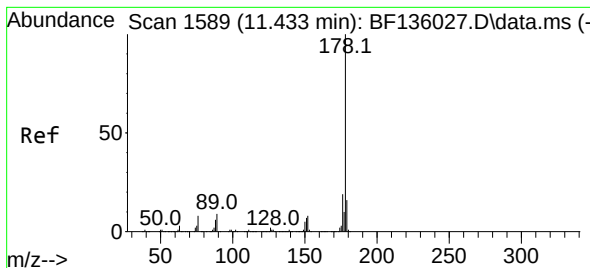


#71
Phenanthrene
Concen: 103.732 ng
RT: 11.386 min Scan# 1581
Delta R.T. 0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33



Tgt Ion:178 Resp: 1595223
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 15.9 12.9 19.3





#72

Anthracene

Concen: 50.720 ng

RT: 11.433 min Scan# 1147

Delta R.T. 0.000 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

Tgt Ion:178 Resp: 79925

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.4

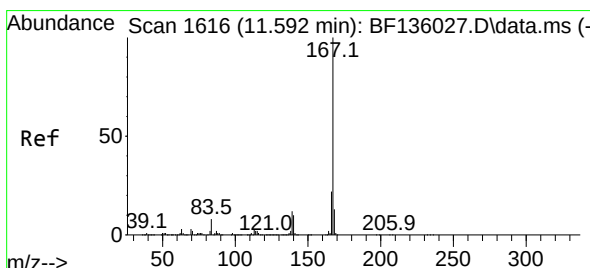
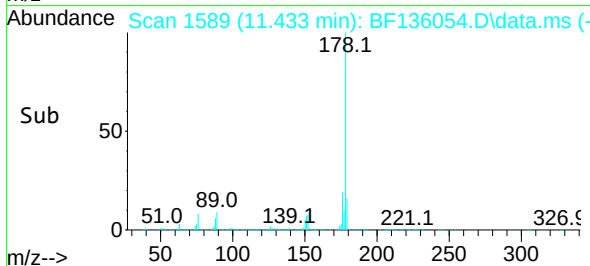
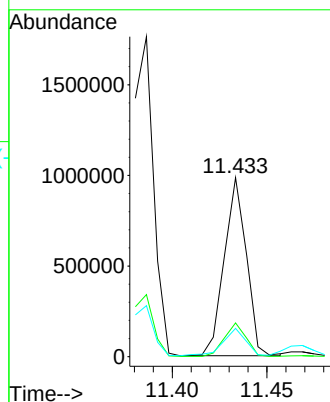
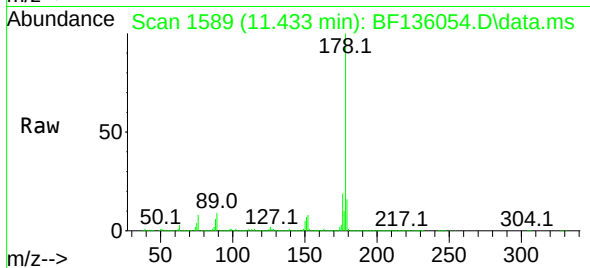
179 15.9 12.6 18.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#73

Carbazole

Concen: 4.165 ng

RT: 11.586 min Scan# 1615

Delta R.T. -0.006 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

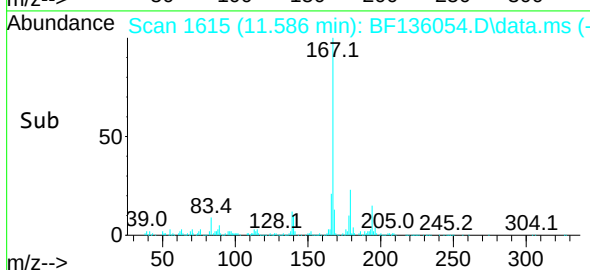
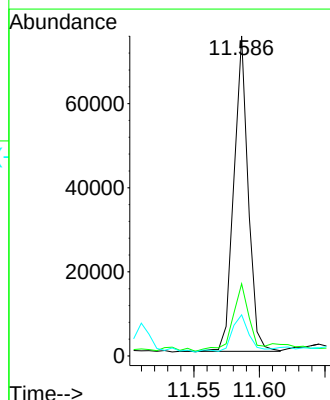
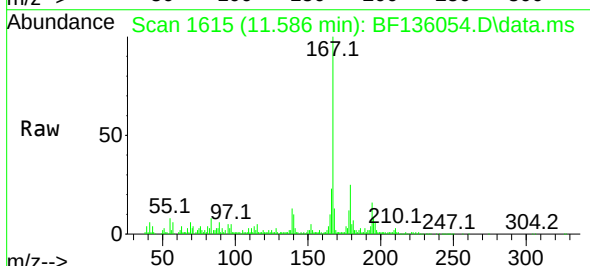
Tgt Ion:167 Resp: 57027

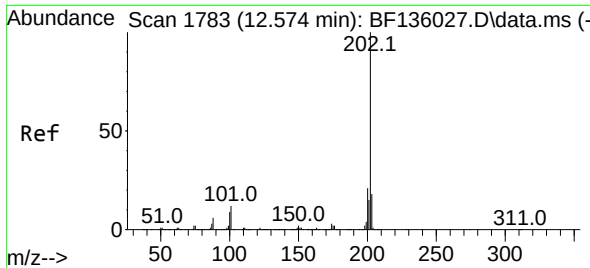
Ion Ratio Lower Upper

167 100

166 22.6 17.2 25.8

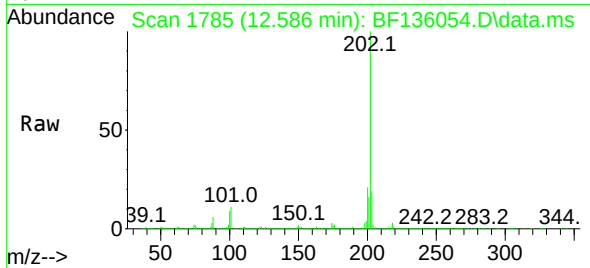
139 12.9 9.9 14.9





#75
Fluoranthene
Concen: 144.577 ng
RT: 12.586 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

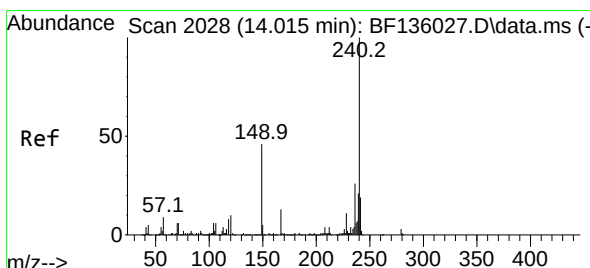
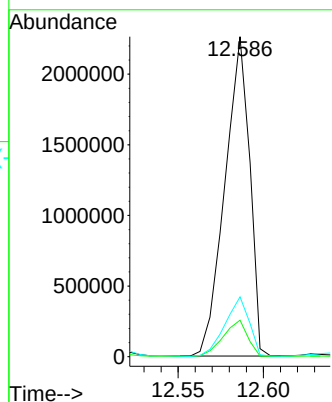
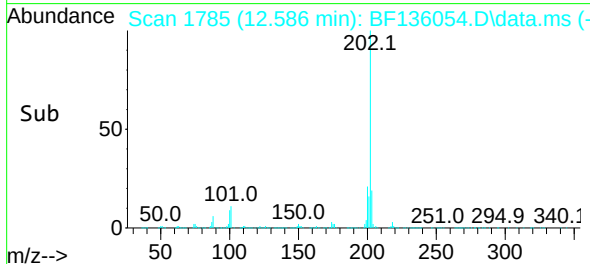
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)



Tgt Ion:202 Resp: 228406
Ion Ratio Lower Upper
202 100
101 11.4 0.0 31.8
203 18.7 0.0 37.9

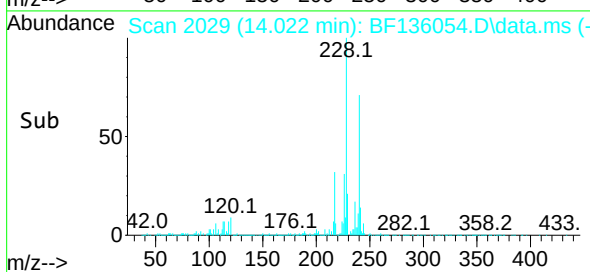
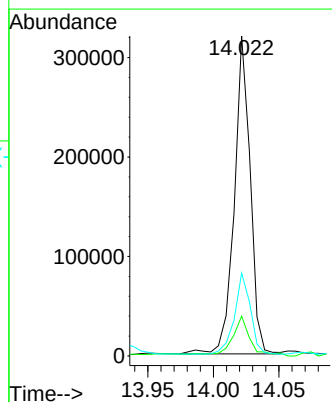
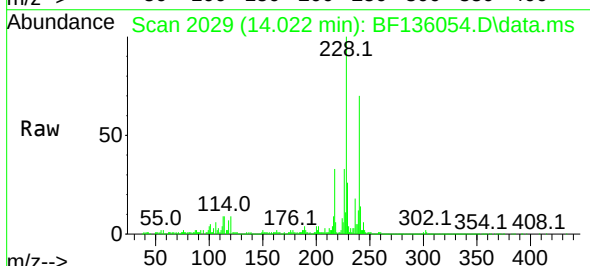
Manual Integrations
APPROVED

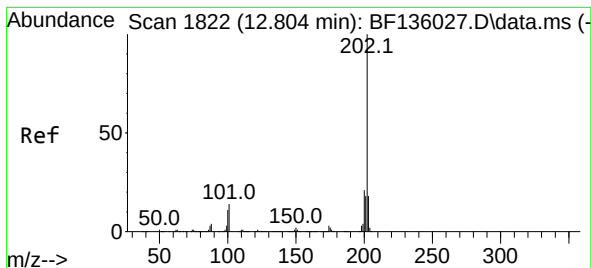
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.022 min Scan# 2029
Delta R.T. 0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:240 Resp: 270421
Ion Ratio Lower Upper
240 100
120 12.5 7.6 11.4#
236 25.9 20.6 31.0





#78

Pyrene

Concen: 108.201 ng

RT: 12.822 min Scan# 1825

Delta R.T. 0.018 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

Tgt Ion:202 Resp: 257968

Ion Ratio Lower Upper

202 100

200 21.7 17.0 25.4

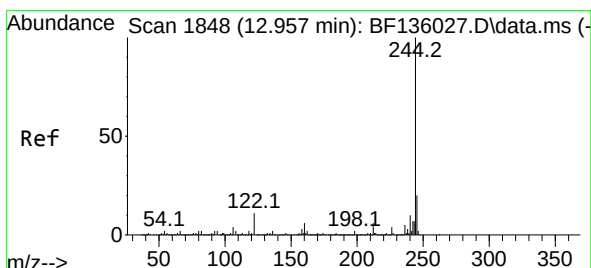
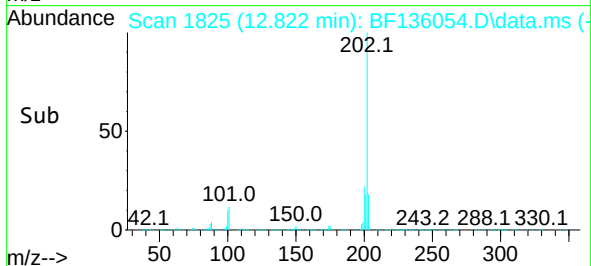
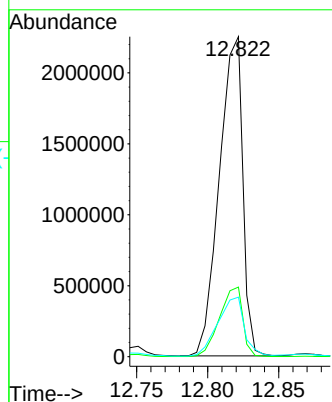
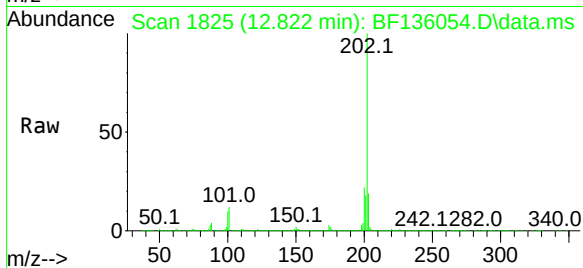
203 18.6 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#79

Terphenyl-d14

Concen: 25.407 ng

RT: 12.957 min Scan# 1848

Delta R.T. 0.000 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

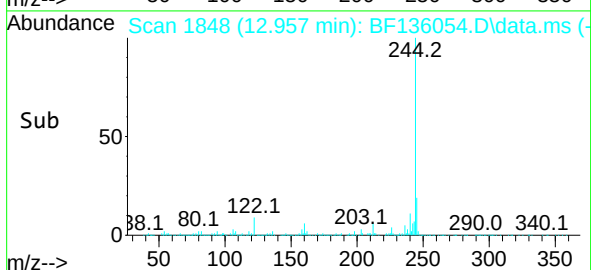
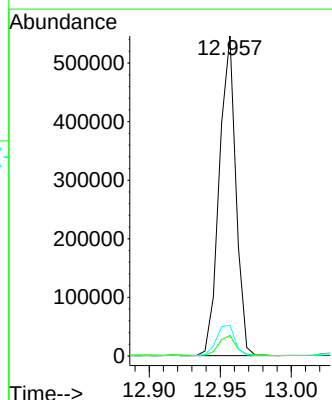
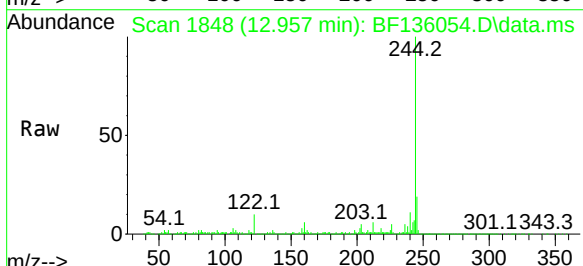
Tgt Ion:244 Resp: 442113

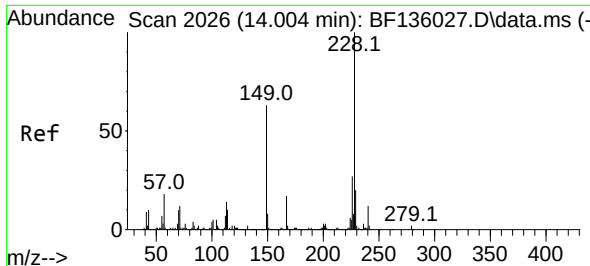
Ion Ratio Lower Upper

244 100

212 6.4 5.1 7.7

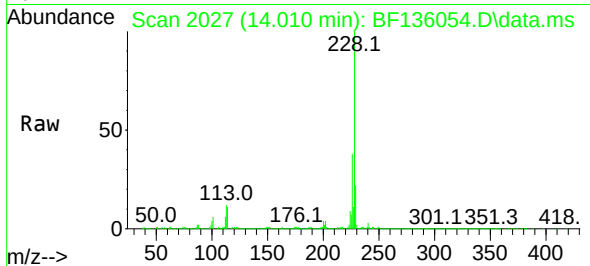
122 9.6 8.6 12.8





#81
Benzo(a)anthracene
Concen: 83.930 ng m
RT: 14.010 min Scan# 2026
Delta R.T. 0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

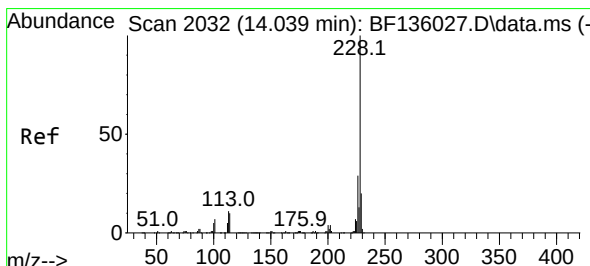
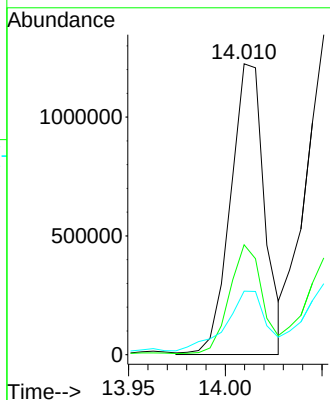
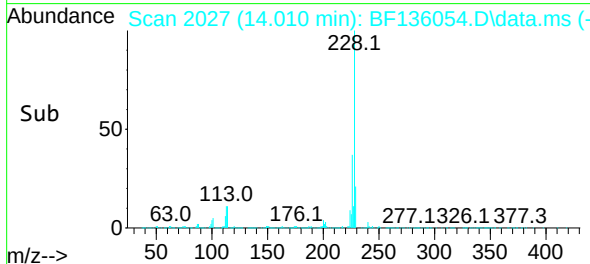
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)



Tgt Ion:228 Resp: 1502577
Ion Ratio Lower Upper
228 100
226 37.8 21.5 32.3
229 21.8 15.8 23.6

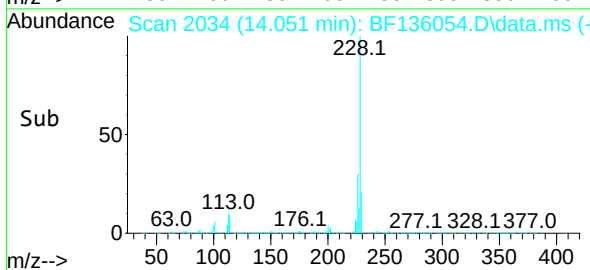
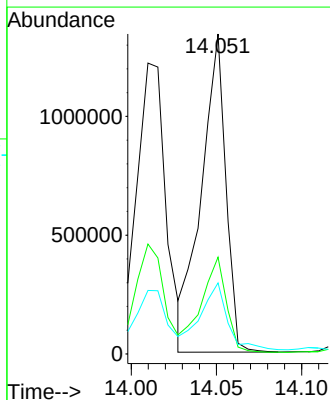
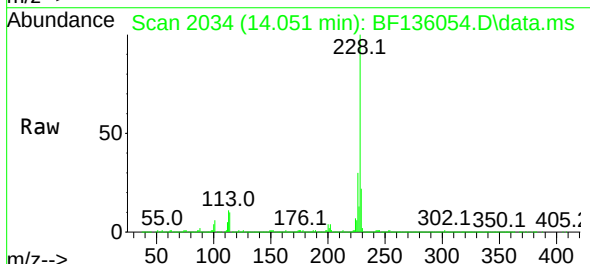
Manual Integrations
APPROVED

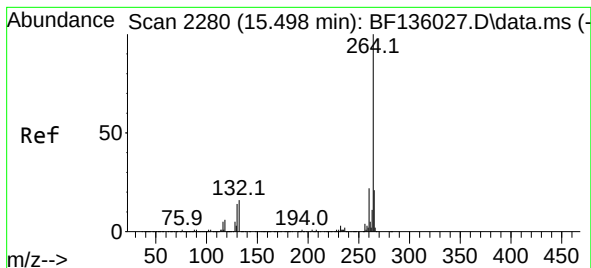
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#83
Chrysene
Concen: 75.756 ng
RT: 14.051 min Scan# 2034
Delta R.T. 0.012 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:228 Resp: 1335655
Ion Ratio Lower Upper
228 100
226 30.2 23.5 35.3
229 22.2 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.516 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNF

ClientSampleId :

H-1(0-5)

Tgt Ion:264 Resp: 24227

Ion Ratio Lower Upper

264 100

260 24.3 17.9 26.9

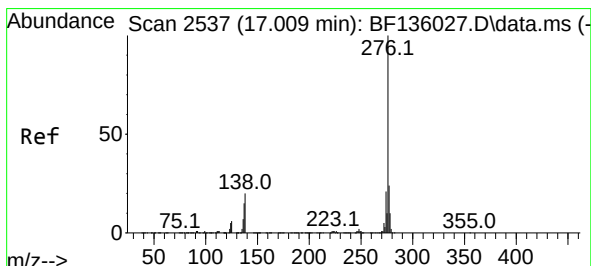
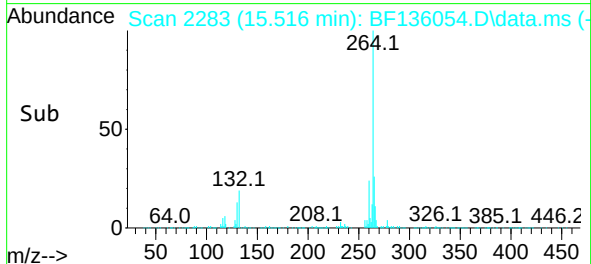
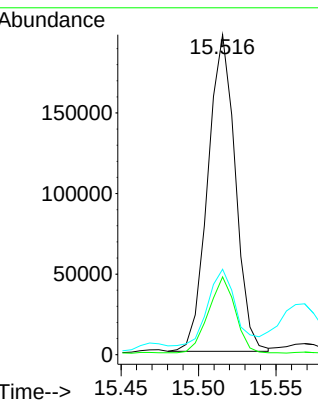
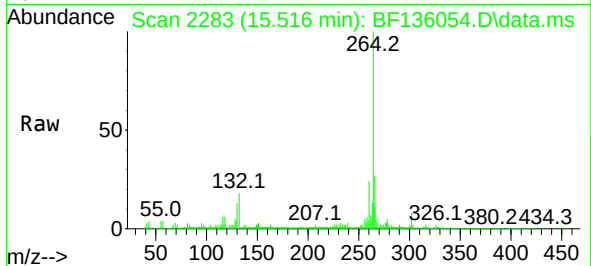
265 26.7 16.8 25.2

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: 27.717 ng

RT: 17.033 min Scan# 2541

Delta R.T. 0.024 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

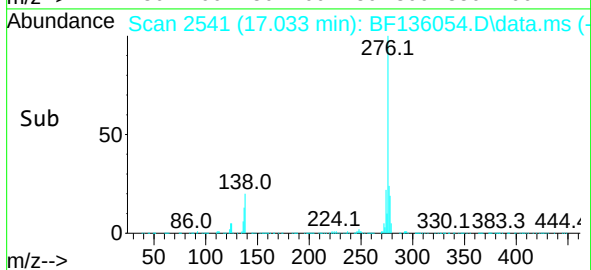
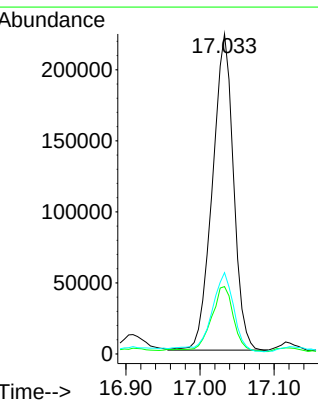
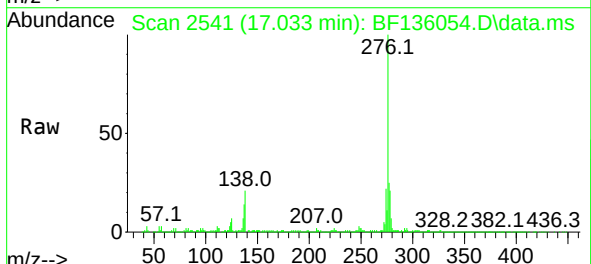
Tgt Ion:276 Resp: 438870

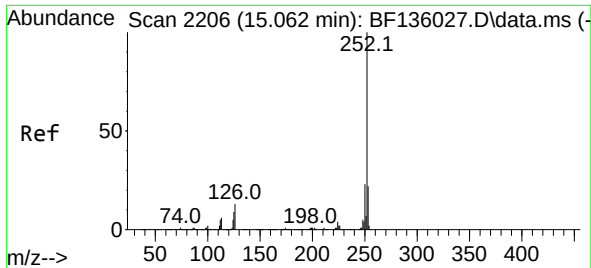
Ion Ratio Lower Upper

276 100

138 22.0 20.4 30.6

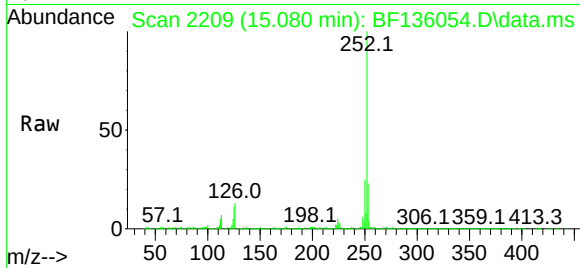
277 26.5 20.2 30.2





#88
Benzo(b)fluoranthene
Concen: 90.550 ng m
RT: 15.080 min Scan# 2113
Delta R.T. 0.018 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

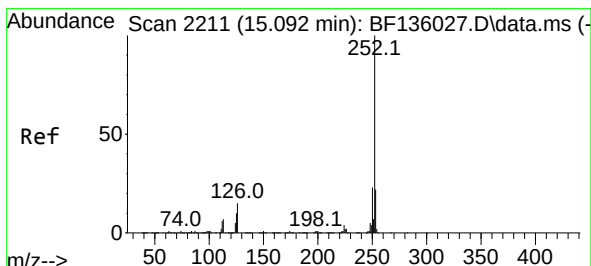
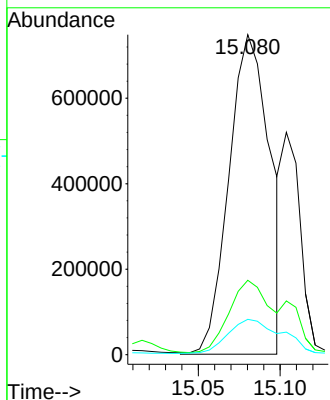
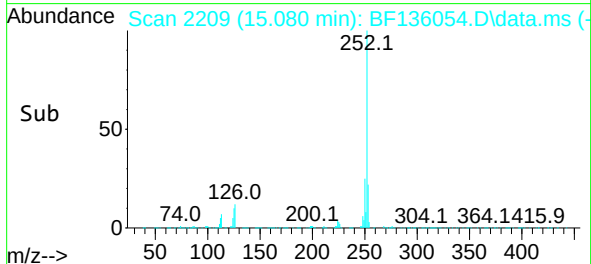
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)



Tgt Ion:252 Resp: 1298085
Ion Ratio Lower Upper
252 100
253 23.3 17.7 26.5
125 11.0 7.5 11.3

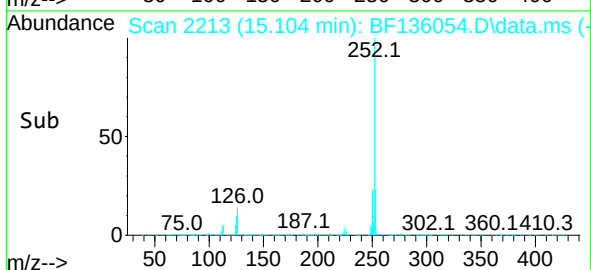
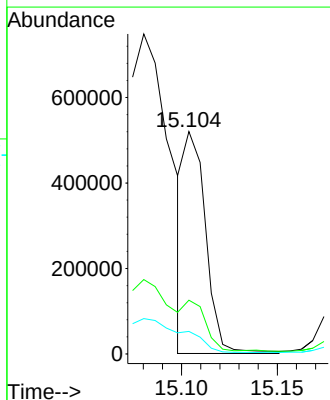
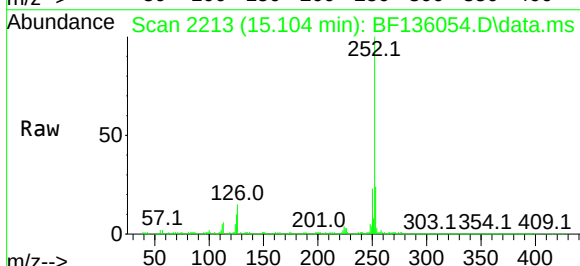
Manual Integrations
APPROVED

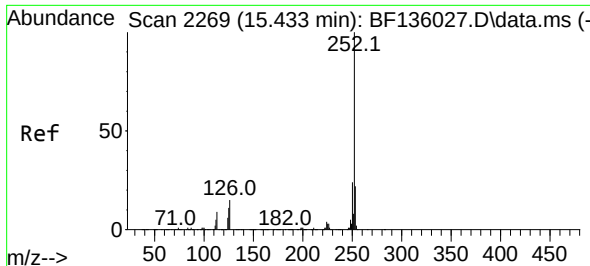
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#89
Benzo(k)fluoranthene
Concen: 28.880 ng m
RT: 15.104 min Scan# 2213
Delta R.T. 0.012 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:252 Resp: 409646
Ion Ratio Lower Upper
252 100
253 24.2 17.4 26.0
125 10.2 8.0 12.0





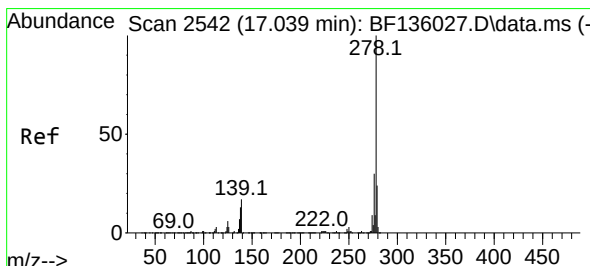
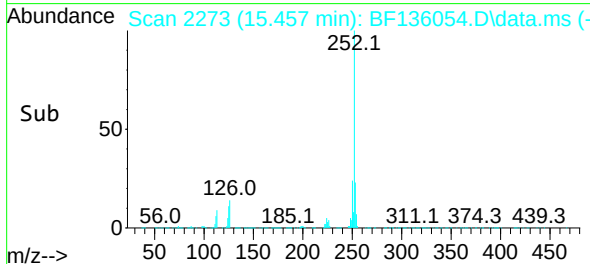
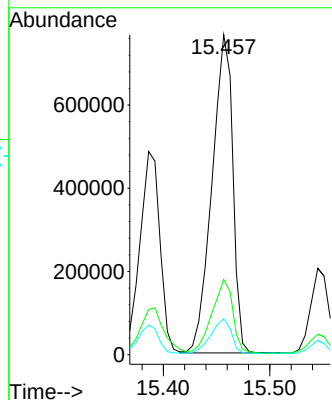
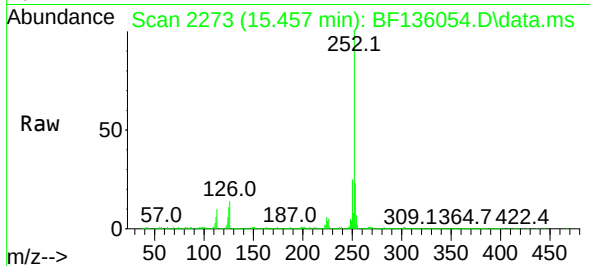
#90
Benzo(a)pyrene
Concen: 77.651 ng
RT: 15.457 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Instrument :
BNA_F
ClientSampleId :
H-1(0-5)

Tgt Ion:252 Resp: 103430
Ion Ratio Lower Upper
252 100
253 23.5 17.3 25.9
125 11.2 9.0 13.6

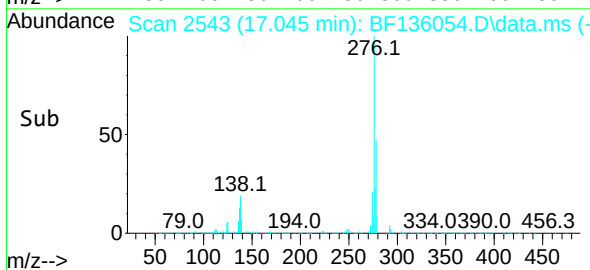
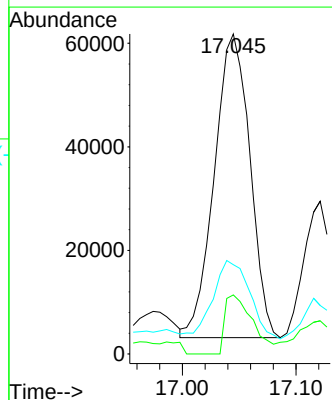
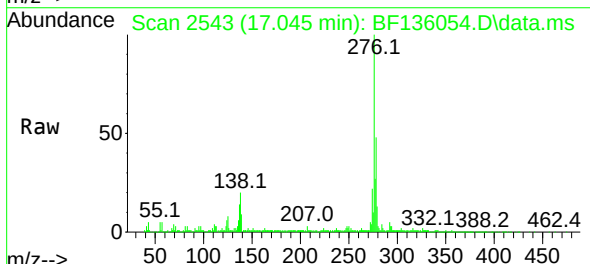
Manual Integrations
APPROVED

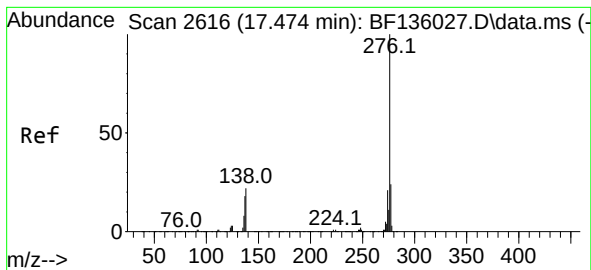
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#91
Dibenzo(a,h)anthracene
Concen: 9.856 ng
RT: 17.045 min Scan# 2543
Delta R.T. 0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

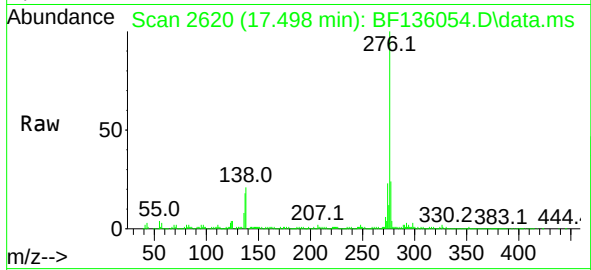
Tgt Ion:278 Resp: 127833
Ion Ratio Lower Upper
278 100
139 18.5 13.7 20.5
279 27.9 19.0 28.6





#92
 Benzo(g,h,i)perylene
 Concen: 29.896 ng
 RT: 17.498 min Scan# 20
 Delta R.T. 0.024 min
 Lab File: BF136054.D
 Acq: 31 Oct 2023 16:33

Instrument :
 BNA_F
 ClientSampleId :
 H-1(0-5)



Tgt Ion: 276 Resp: 42430

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.0	28.4
138	21.4	17.4	26.2

Manual Integrations
 APPROVED

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

