

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136055.D
 Acq On : 31 Oct 2023 17:03
 Operator : CG\JU
 Sample : 04805-05 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 M-2(0-5)

Manual Integrations
 APPROVED

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

Quant Time: Oct 31 17:54:46 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	111070	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	374767	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	164327	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	321541	20.000	ng	0.00
76) Chrysene-d12	14.027	240	278748	20.000	ng	0.01
86) Perylene-d12	15.521	264	245253	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	287470	40.671	ng	0.00
7) Phenol-d6	6.445	99	326781	37.107	ng	-0.01
23) Nitrobenzene-d5	7.381	82	172212	27.701	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	73227	41.749	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	303630	29.454	ng	0.00
79) Terphenyl-d14	12.957	244	407016	22.691	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.128	128	550683	30.472	ng	100
37) 2-Methylnaphthalene	8.816	142	131115	10.820	ng	99
38) 1-Methylnaphthalene	8.916	142	376269	33.367	ng	100
46) 1,1'-Biphenyl	9.281	154	154294	12.317	ng	99
49) Acenaphthylene	9.722	152	620899	43.098	ng	99
52) Acenaphthene	9.892	154	176928	19.319	ng	98
55) Dibenzofuran	10.069	168	173502	12.992	ng	# 96
58) Fluorene	10.410	166	350002	35.005	ng	100
71) Phenanthrene	11.386	178	1750603	108.131	ng	99
72) Anthracene	11.433	178	824405	49.694	ng	100
73) Carbazole	11.586	167	36416	2.526	ng	# 85
75) Fluoranthene	12.592	202	2344475	140.963	ng	98
78) Pyrene	12.822	202	3104676	126.331	ng	98
81) Benzo(a)anthracene	14.016	228	1571069m	85.135	ng	
83) Chrysene	14.051	228	1552337m	85.416	ng	
87) Indeno(1,2,3-cd)pyrene	17.045	276	498386	31.093	ng	96
88) Benzo(b)fluoranthene	15.086	252	1360714m	93.764	ng	
89) Benzo(k)fluoranthene	15.110	252	365819m	25.477	ng	
90) Benzo(a)pyrene	15.463	252	1139165	84.483	ng	97
91) Dibenzo(a,h)anthracene	17.051	278	147181	11.210	ng	94
92) Benzo(g,h,i)perylene	17.509	276	513953	35.203	ng	99

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

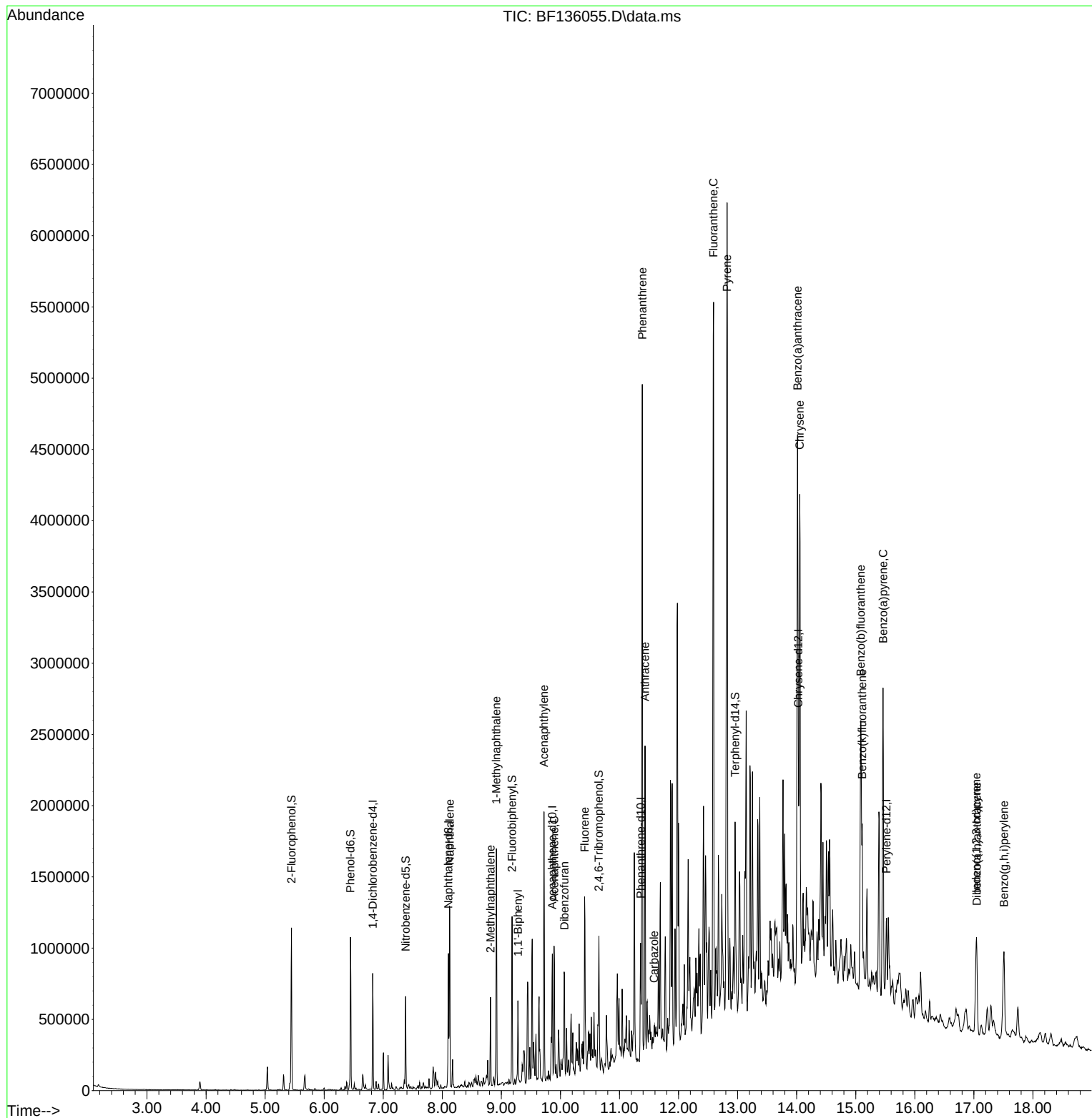
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136055.D
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ALS Vial : 13 Sample Multiplier: 1

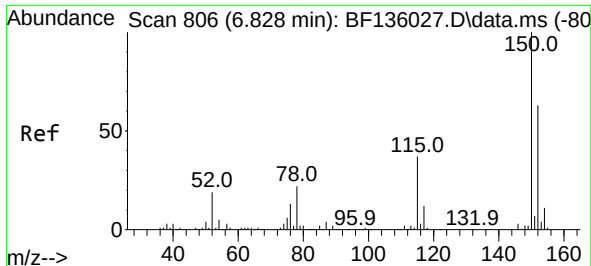
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)

Quant Time: Oct 31 17:54:46 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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APPROVED

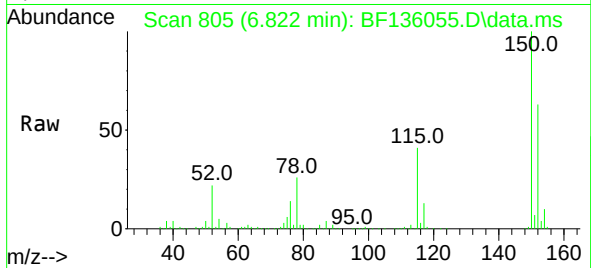
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

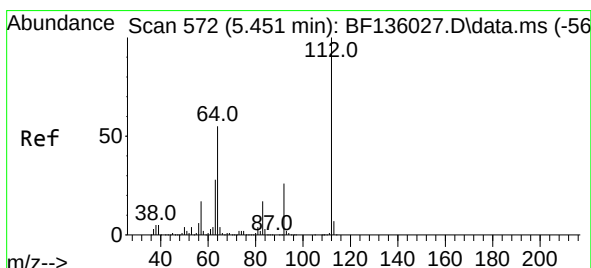
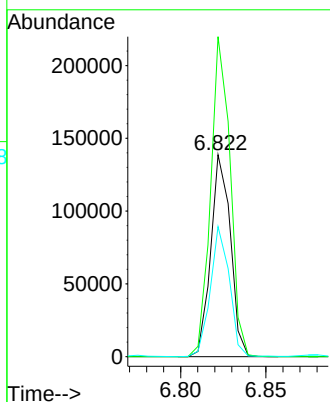
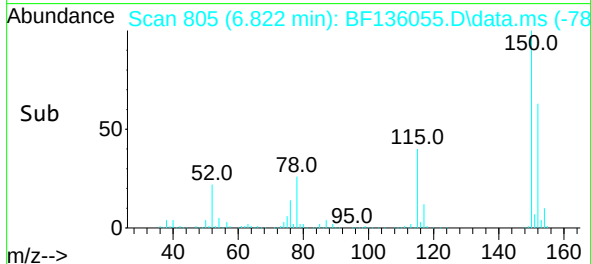
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)



Tgt Ion:152 Resp: 111070
Ion Ratio Lower Upper
152 100
150 158.5 126.4 189.6
115 64.4 47.0 70.4

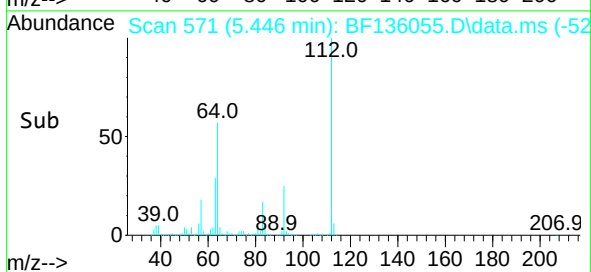
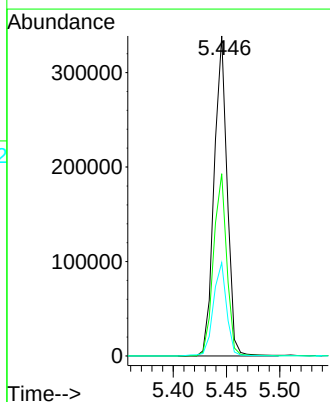
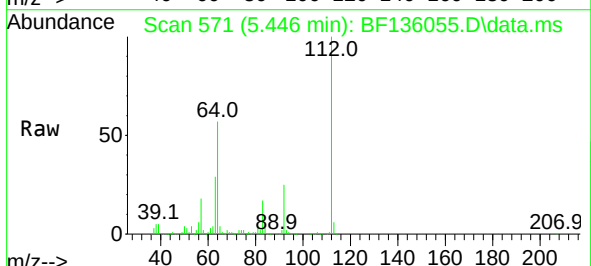
Manual Integrations
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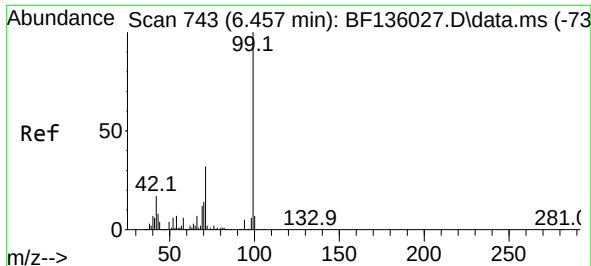
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#5
2-Fluorophenol
Concen: 40.671 ng
RT: 5.446 min Scan# 571
Delta R.T. -0.006 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

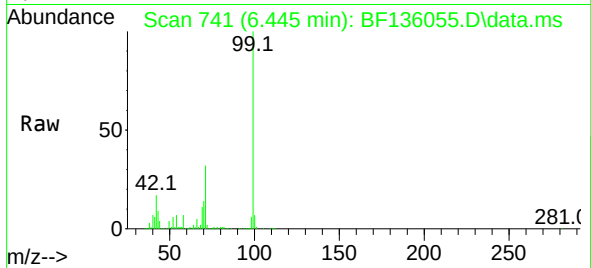
Tgt Ion:112 Resp: 287470
Ion Ratio Lower Upper
112 100
64 57.0 43.9 65.9
63 29.2 22.4 33.6





#7
Phenol-d6
Concen: 37.107 ng
RT: 6.445 min Scan# 743
Delta R.T. -0.012 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

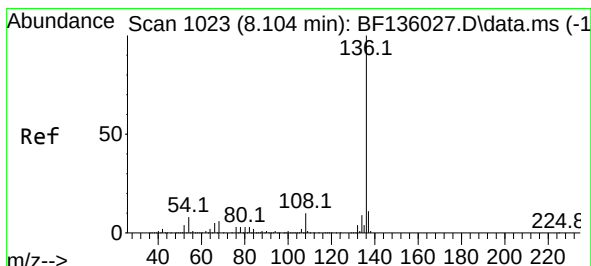
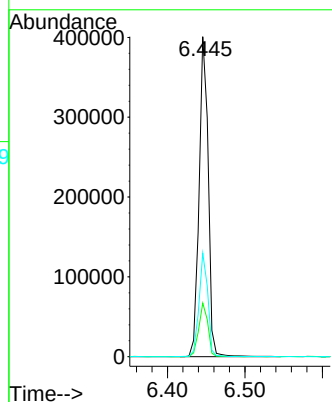
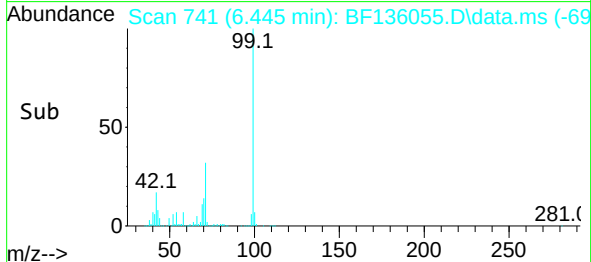
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)



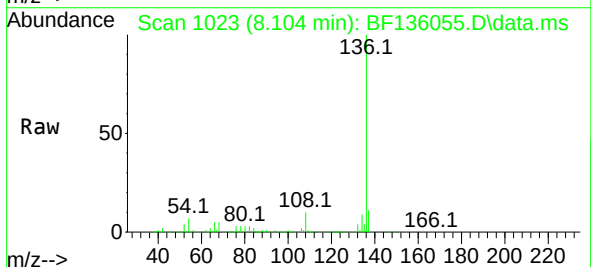
Tgt Ion: 99 Resp: 32678
Ion Ratio Lower Upper
99 100
42 16.7 13.7 20.5
71 32.4 25.9 38.9

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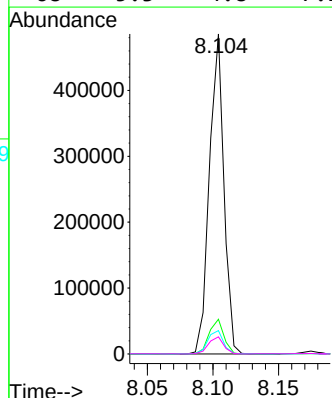
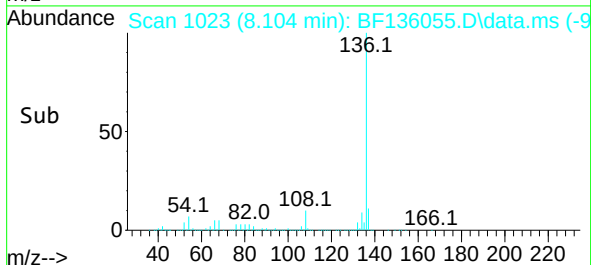
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

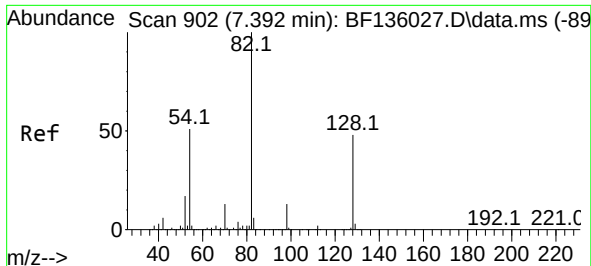


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03



Tgt Ion:136 Resp: 374767
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 7.3 6.6 9.8
68 5.3 4.8 7.2





#23

Nitrobenzene-d5

Concen: 27.701 ng

RT: 7.381 min Scan# 902

Delta R.T. -0.012 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)

Tgt Ion: 82 Resp: 17221

Ion Ratio Lower Upper

82 100

128 47.7 38.6 57.8

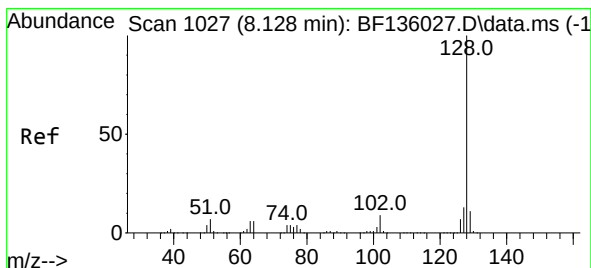
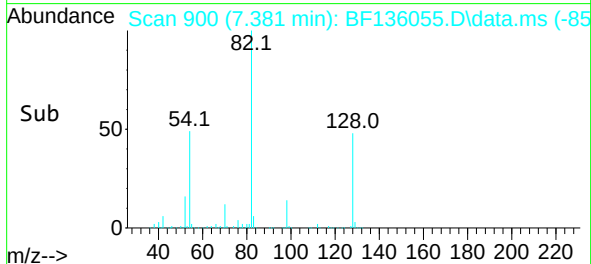
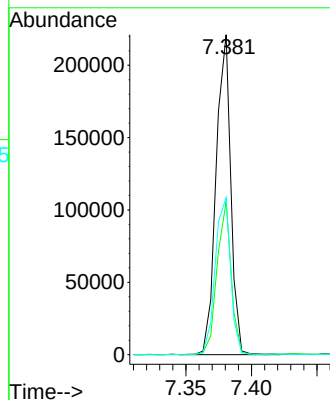
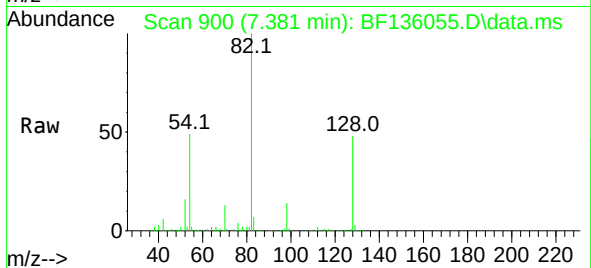
54 49.1 40.8 61.2

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#31

Naphthalene

Concen: 30.472 ng

RT: 8.128 min Scan# 1027

Delta R.T. 0.000 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

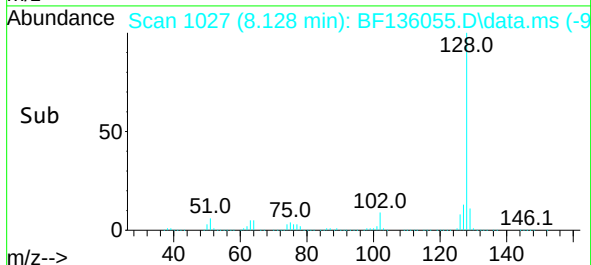
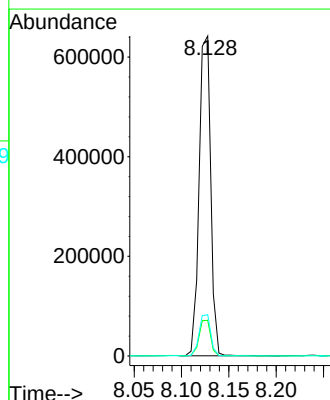
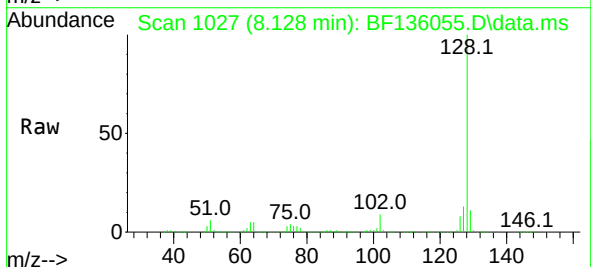
Tgt Ion:128 Resp: 550683

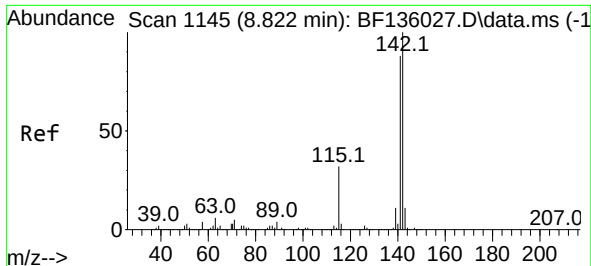
Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

127 12.9 10.5 15.7





#37

2-Methylnaphthalene

Concen: 10.820 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)

Tgt Ion:142 Resp: 13111

Ion Ratio Lower Upper

142 100

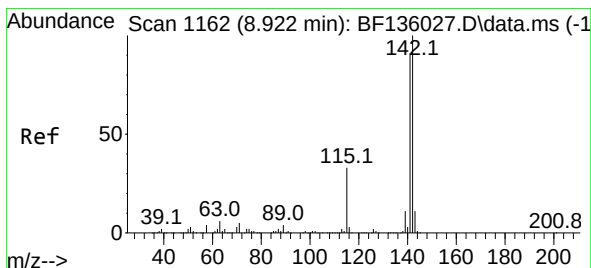
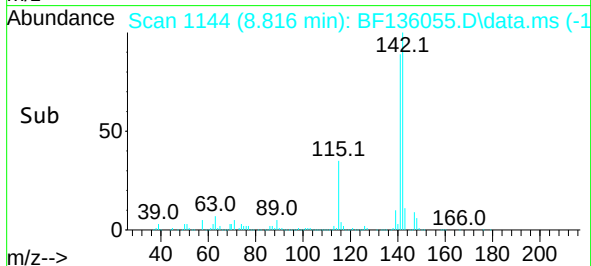
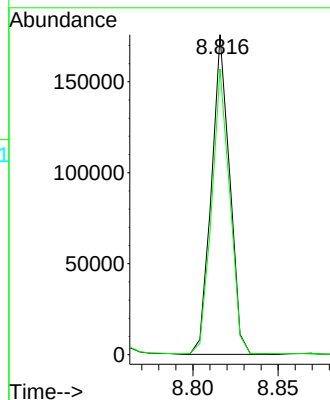
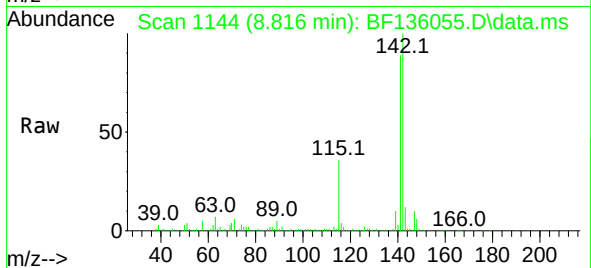
141 89.3 70.4 105.6

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#38

1-Methylnaphthalene

Concen: 33.367 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136055.D

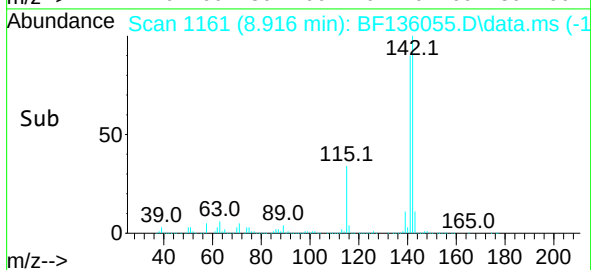
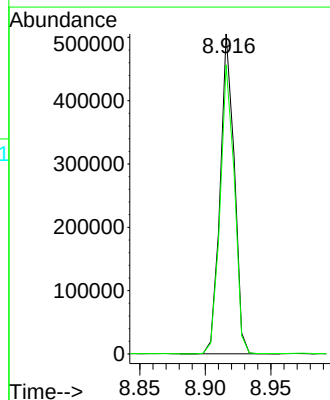
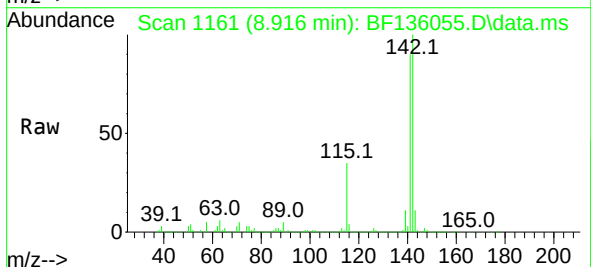
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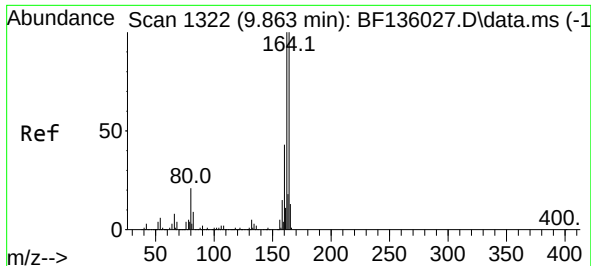
Tgt Ion:142 Resp: 376269

Ion Ratio Lower Upper

142 100

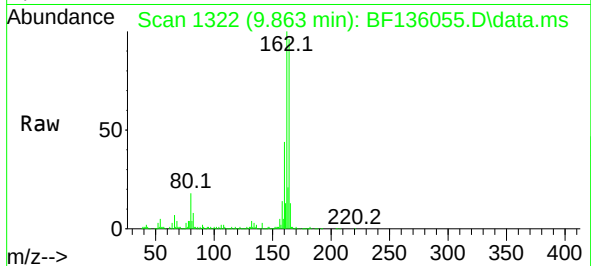
141 90.4 72.6 109.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

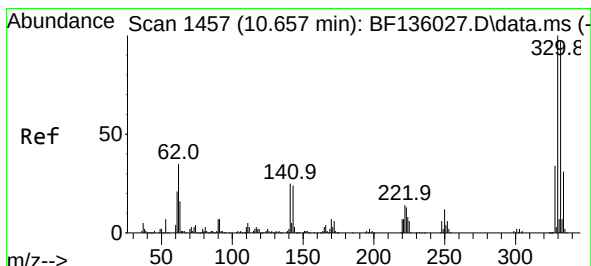
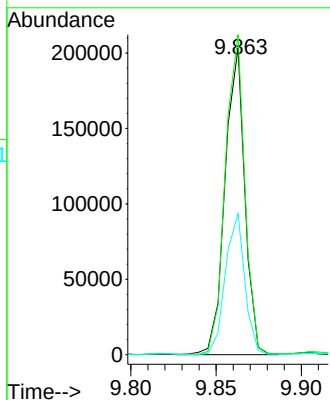
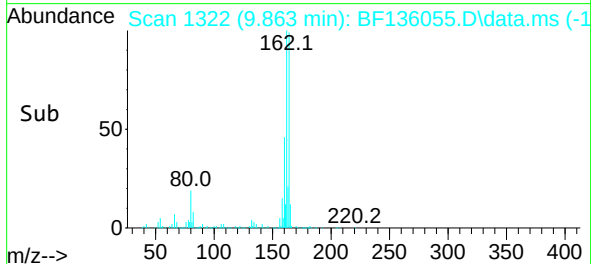
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)



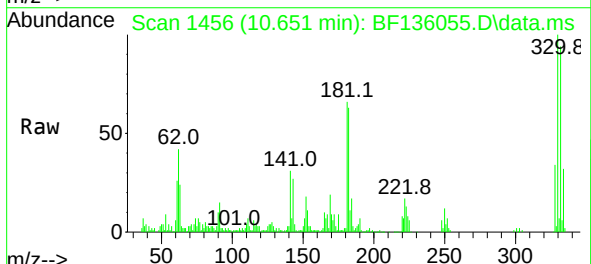
Tgt Ion:164 Resp: 16432
Ion Ratio Lower Upper
164 100
162 104.3 80.1 120.1
160 46.0 34.8 52.2

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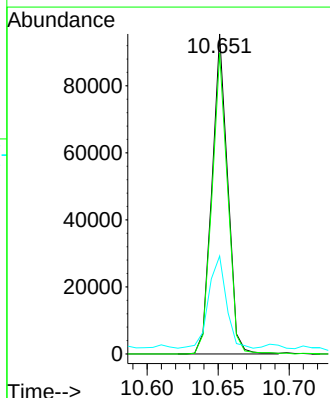
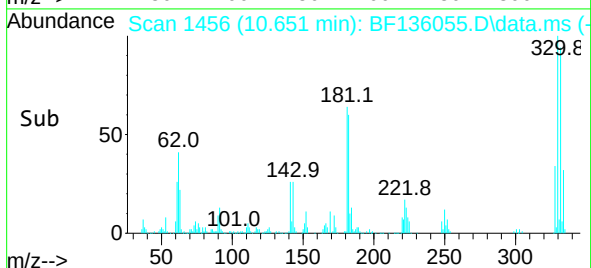
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

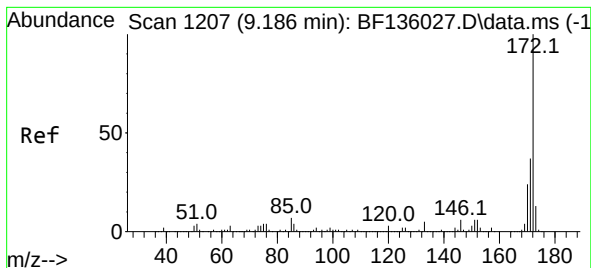


#42
2,4,6-Tribromophenol
Concen: 41.749 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03



Tgt Ion:330 Resp: 73227
Ion Ratio Lower Upper
330 100
332 94.0 76.9 115.3
141 33.7 23.2 34.8





#45

2-Fluorobiphenyl

Concen: 29.454 ng

RT: 9.181 min Scan# 1206

Delta R.T. -0.006 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)

Tgt Ion:172 Resp: 303630

Ion Ratio Lower Upper

172 100

171 35.4 29.4 44.0

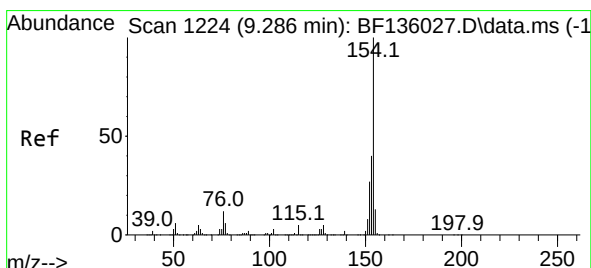
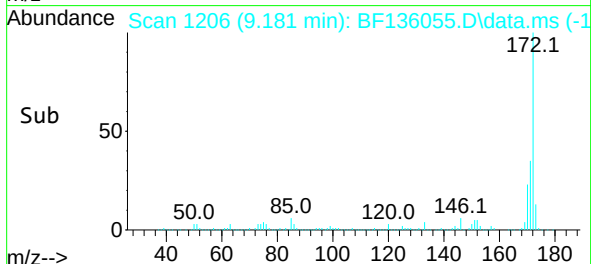
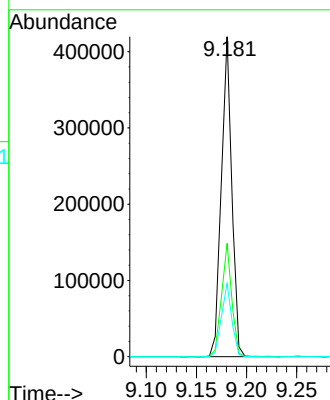
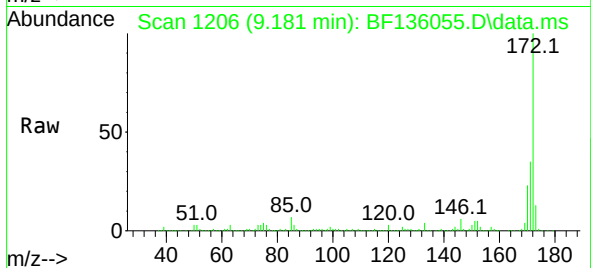
170 22.8 19.3 28.9

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#46

1,1'-Biphenyl

Concen: 12.317 ng

RT: 9.281 min Scan# 1223

Delta R.T. -0.006 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

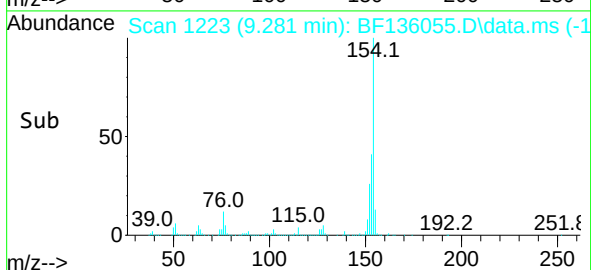
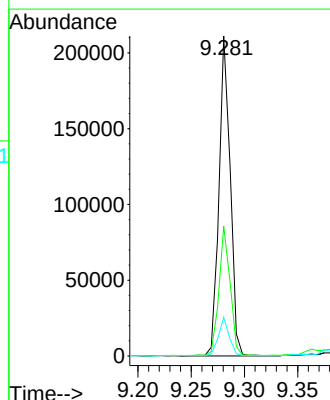
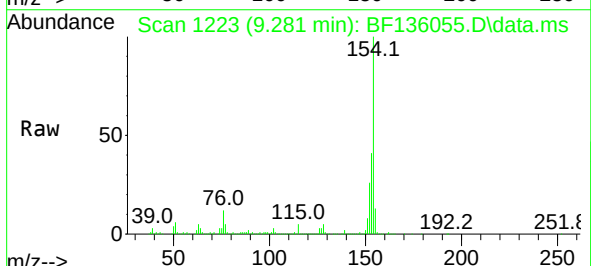
Tgt Ion:154 Resp: 154294

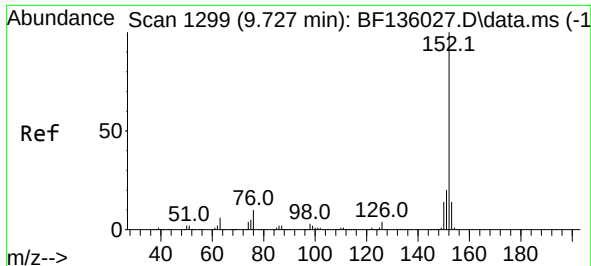
Ion Ratio Lower Upper

154 100

153 40.6 20.1 60.1

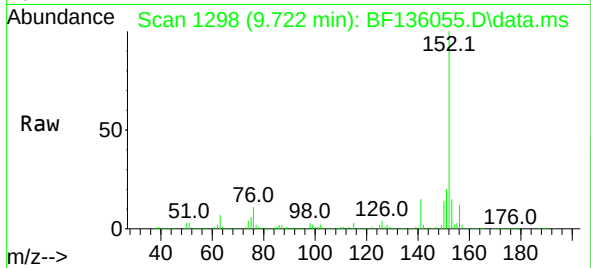
76 12.0 0.0 32.5





#49
Acenaphthylene
Concen: 43.098 ng
RT: 9.722 min Scan# 1299
Delta R.T. -0.006 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

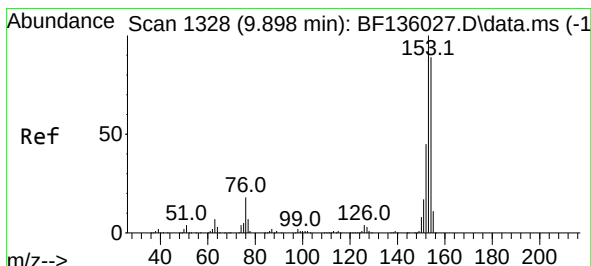
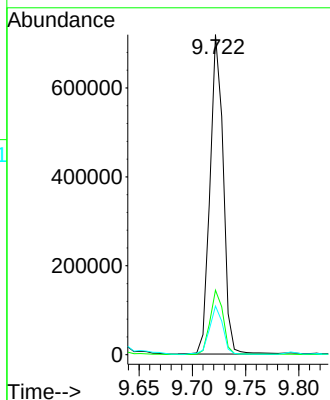
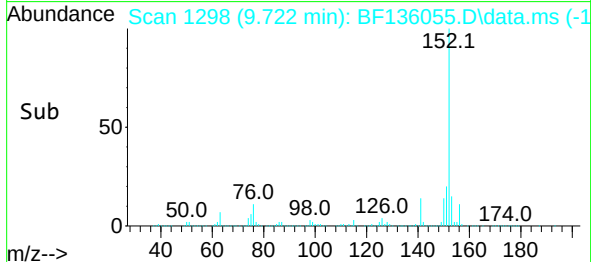
Instrument :
BNA_F
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M-2(0-5)



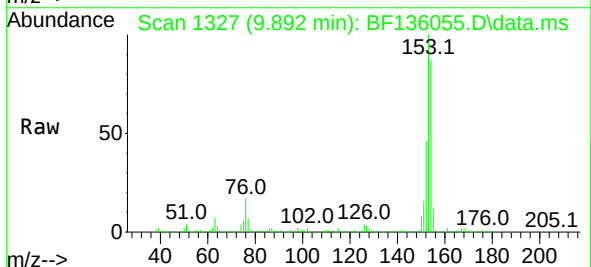
Tgt Ion:152 Resp: 620899
Ion Ratio Lower Upper
152 100
151 20.1 16.1 24.1
153 15.2 11.4 17.2

Manual Integrations
APPROVED

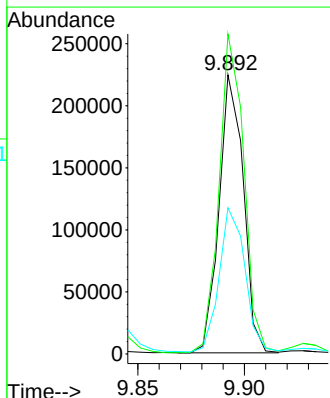
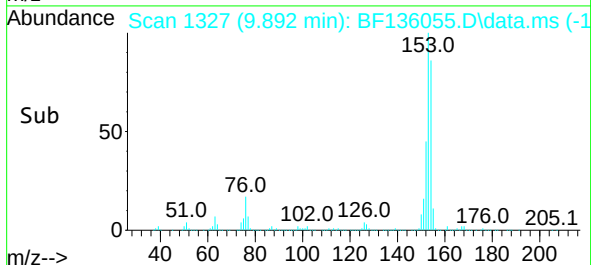
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

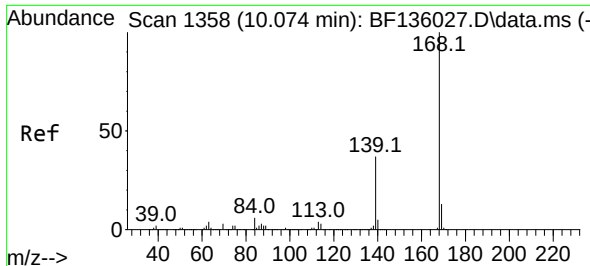


#52
Acenaphthene
Concen: 19.319 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03



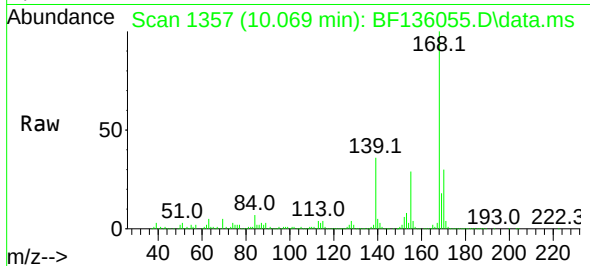
Tgt Ion:154 Resp: 176928
Ion Ratio Lower Upper
154 100
153 114.7 89.9 134.9
152 52.4 40.2 60.2





#55
Dibenzenofuran
Concen: 12.992 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

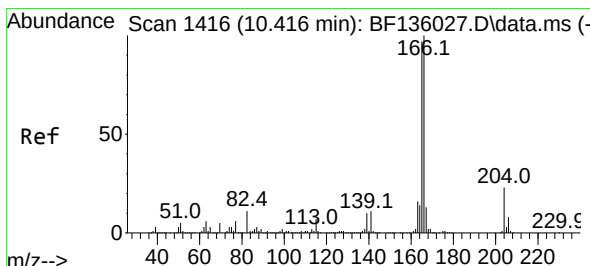
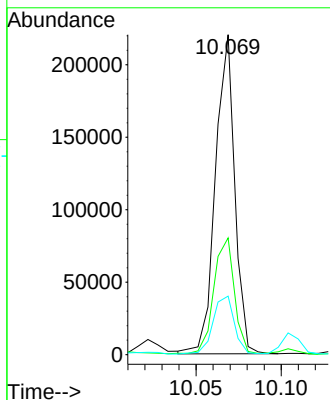
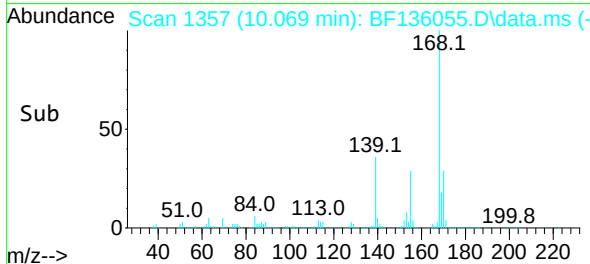
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)



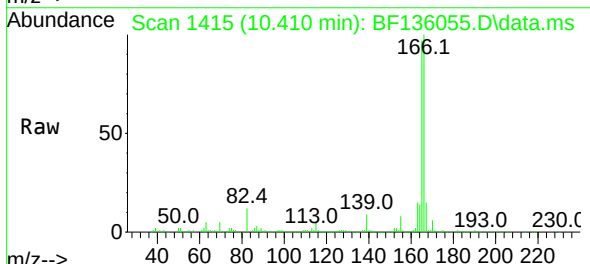
Tgt Ion:168 Resp: 173502
Ion Ratio Lower Upper
168 100
139 36.5 29.4 44.0
169 18.3 10.5 15.7

Manual Integrations
APPROVED

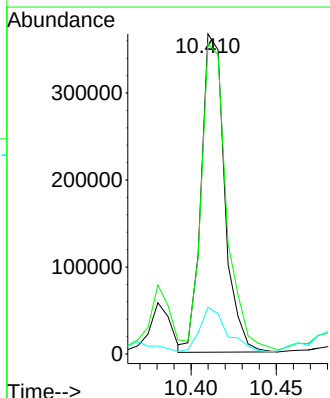
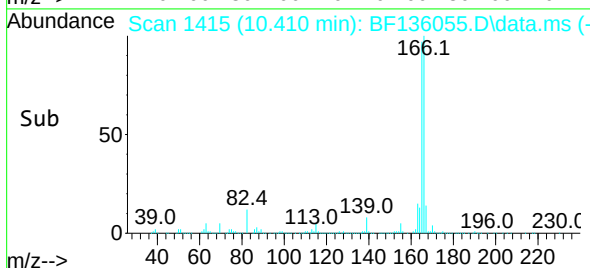
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

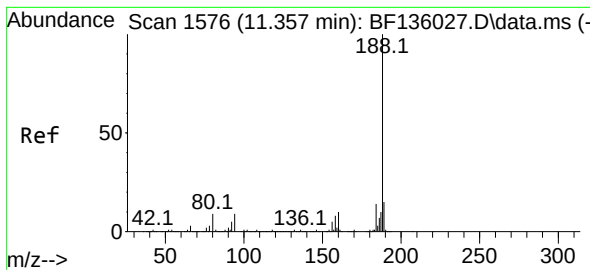


#58
Fluorene
Concen: 35.005 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03



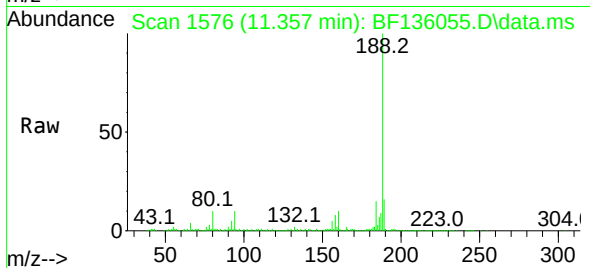
Tgt Ion:166 Resp: 350002
Ion Ratio Lower Upper
166 100
165 97.1 77.7 116.5
167 14.6 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

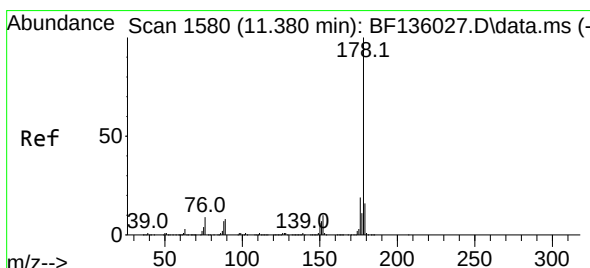
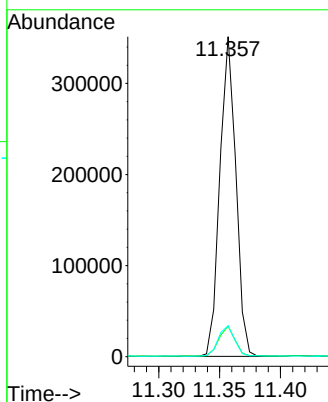
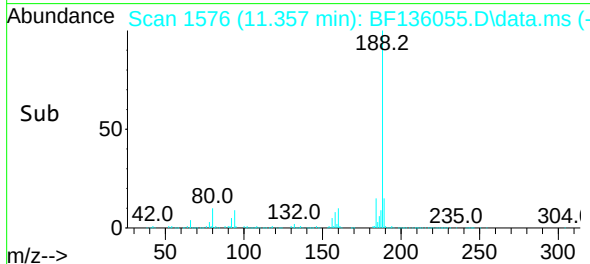
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)



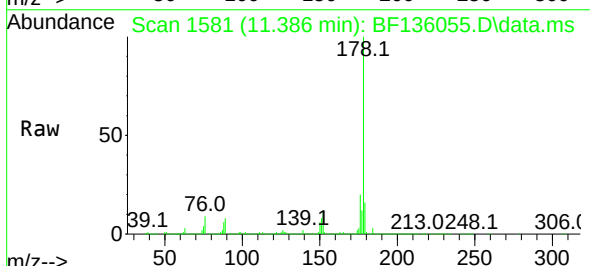
Tgt Ion:188 Resp: 32154
Ion Ratio Lower Upper
188 100
94 9.6 7.2 10.8
80 9.7 7.4 11.0

Manual Integrations
APPROVED

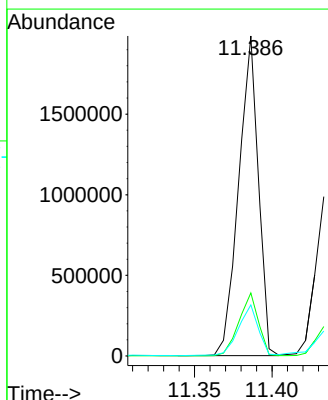
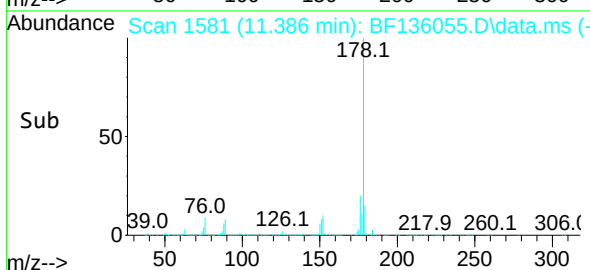
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

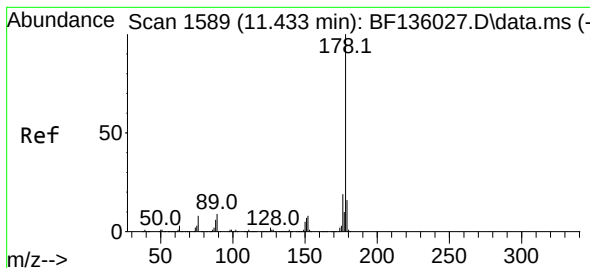


#71
Phenanthrene
Concen: 108.131 ng
RT: 11.386 min Scan# 1581
Delta R.T. 0.006 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03



Tgt Ion:178 Resp: 1750603
Ion Ratio Lower Upper
178 100
176 19.7 15.5 23.3
179 15.9 12.9 19.3





#72

Anthracene

Concen: 49.694 ng

RT: 11.433 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)

Tgt Ion:178 Resp: 82440

Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.4

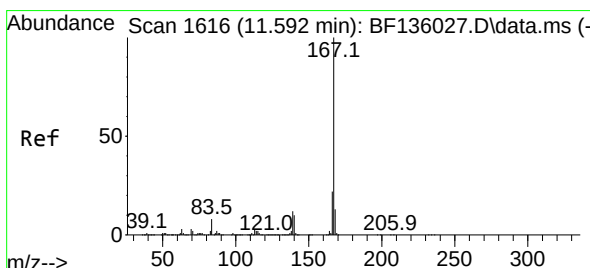
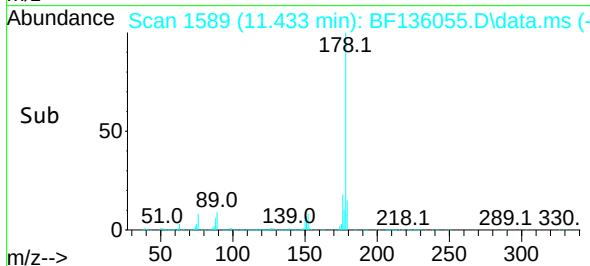
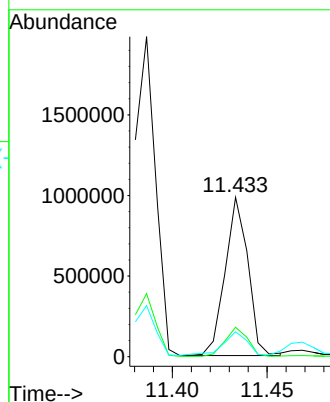
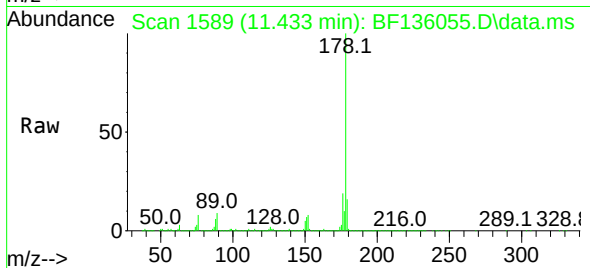
179 15.7 12.6 18.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#73

Carbazole

Concen: 2.526 ng

RT: 11.586 min Scan# 1615

Delta R.T. -0.006 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

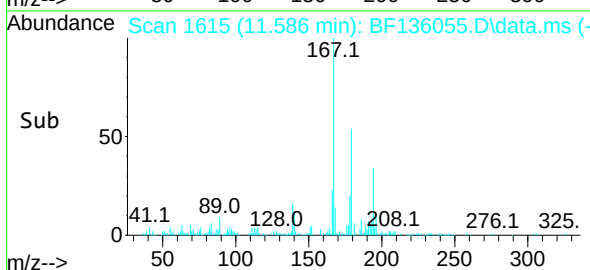
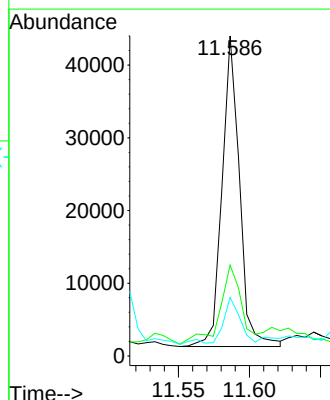
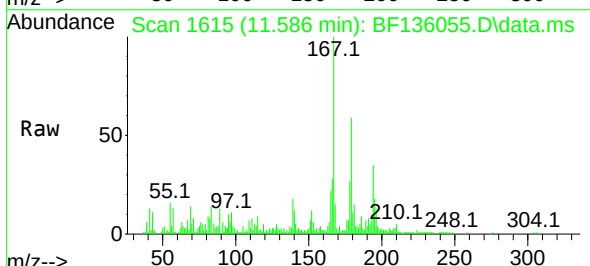
Tgt Ion:167 Resp: 36416

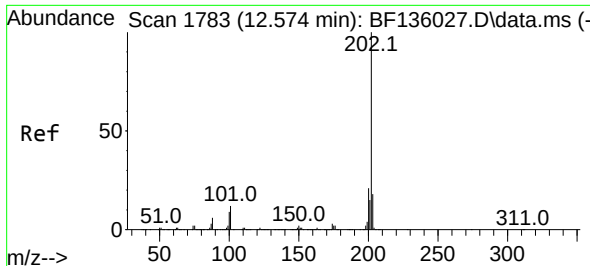
Ion Ratio Lower Upper

167 100

166 28.4 17.2 25.8#

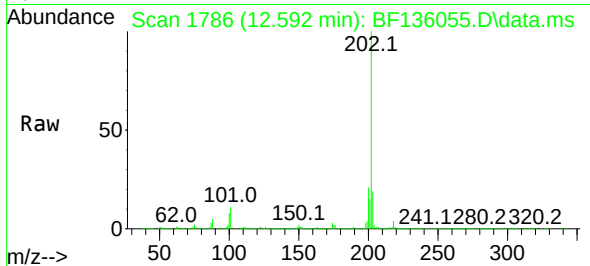
139 18.3 9.9 14.9#





#75
Fluoranthene
Concen: 140.963 ng
RT: 12.592 min Scan# 1
Delta R.T. 0.018 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

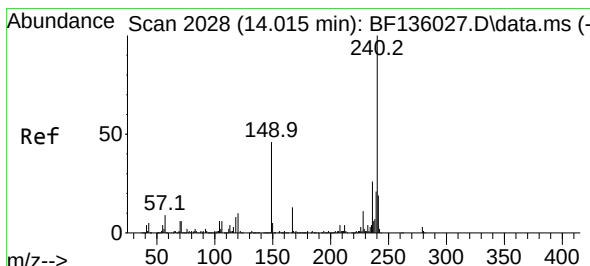
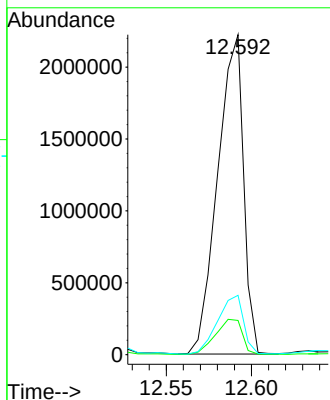
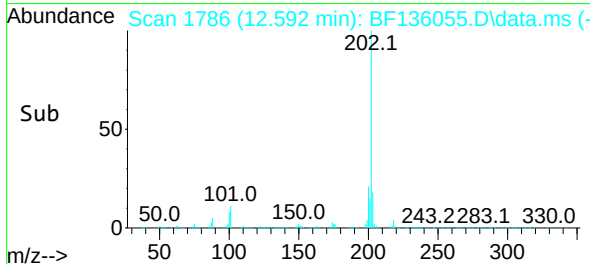
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)



Tgt Ion:202 Resp: 234447
Ion Ratio Lower Upper
202 100
101 10.7 0.0 31.8
203 18.6 0.0 37.9

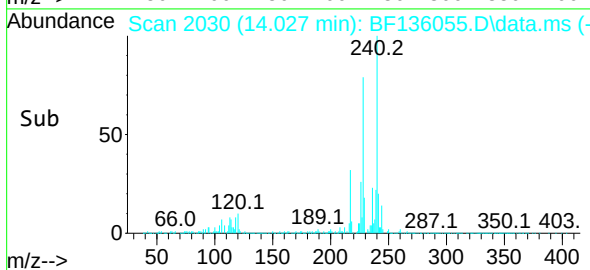
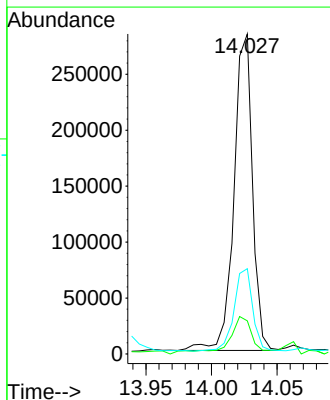
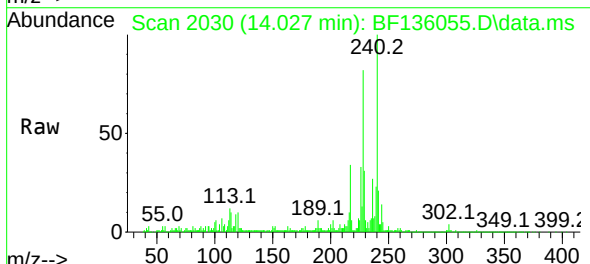
Manual Integrations
APPROVED

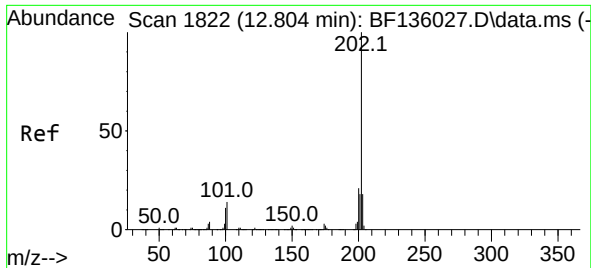
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2030
Delta R.T. 0.012 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

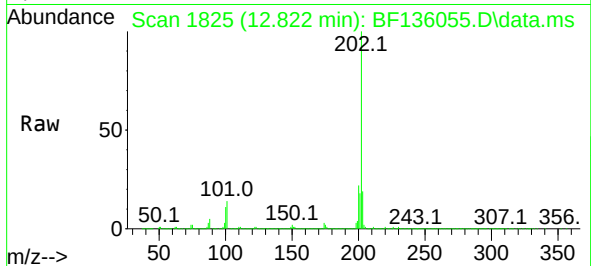
Tgt Ion:240 Resp: 278748
Ion Ratio Lower Upper
240 100
120 10.4 7.6 11.4
236 26.6 20.6 31.0





#78
Pyrene
Concen: 126.331 ng
RT: 12.822 min Scan# 1825
Delta R.T. 0.018 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

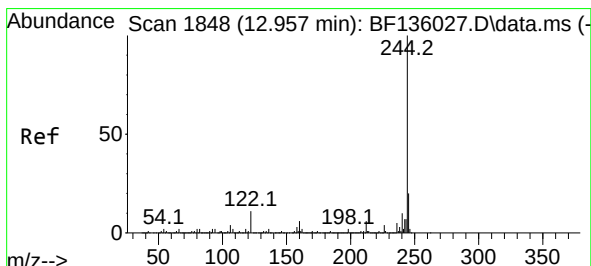
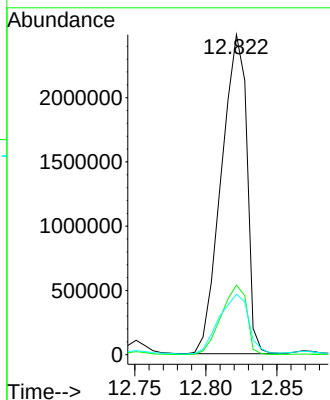
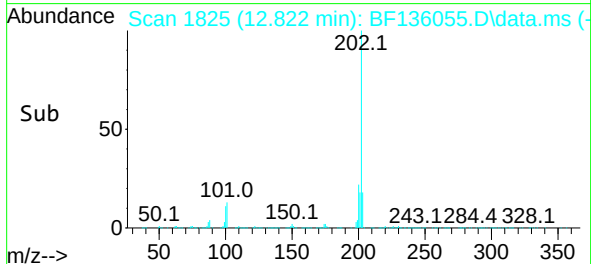
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)



Tgt Ion:202 Resp: 3104670
Ion Ratio Lower Upper
202 100
200 21.7 17.0 25.4
203 18.9 14.4 21.6

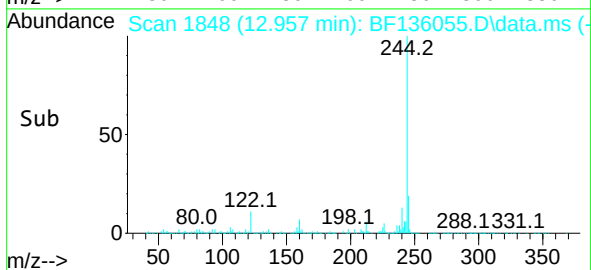
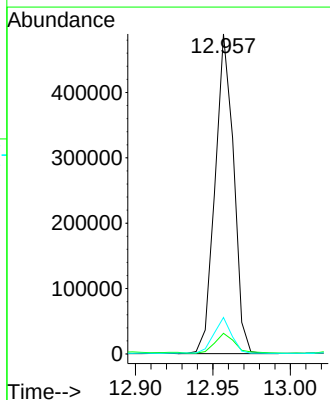
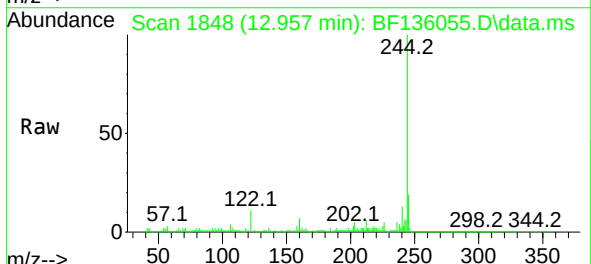
Manual Integrations
APPROVED

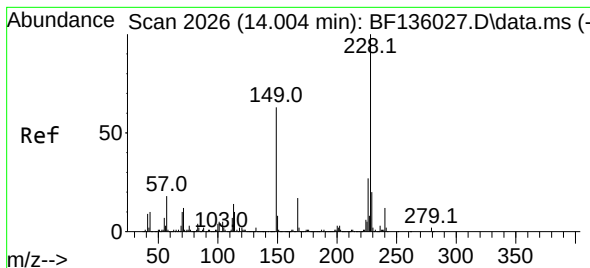
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#79
Terphenyl-d14
Concen: 22.691 ng
RT: 12.957 min Scan# 1848
Delta R.T. 0.000 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

Tgt Ion:244 Resp: 407016
Ion Ratio Lower Upper
244 100
212 6.5 5.1 7.7
122 11.4 8.6 12.8





#81

Benzo(a)anthracene

Concen: 85.135 ng m

RT: 14.016 min Scan# 2026

Delta R.T. 0.012 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)

Tgt Ion:228 Resp: 1571069

Ion Ratio Lower Upper

228 100

226 36.7 21.5 32.3

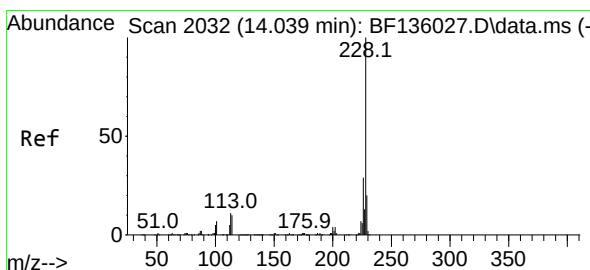
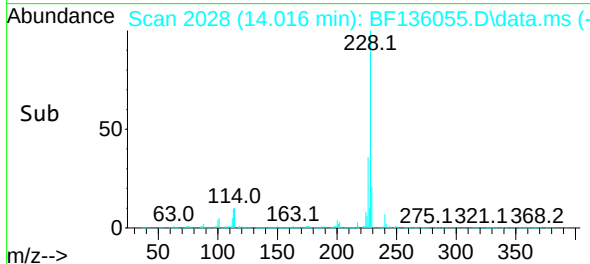
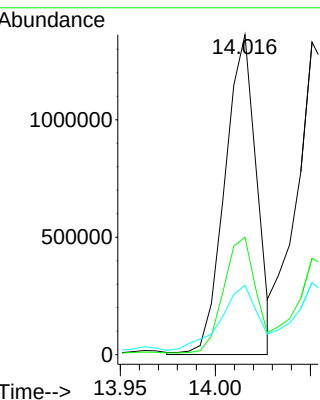
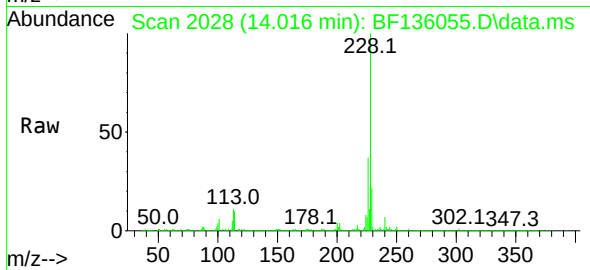
229 21.6 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#83

Chrysene

Concen: 85.416 ng m

RT: 14.051 min Scan# 2034

Delta R.T. 0.012 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

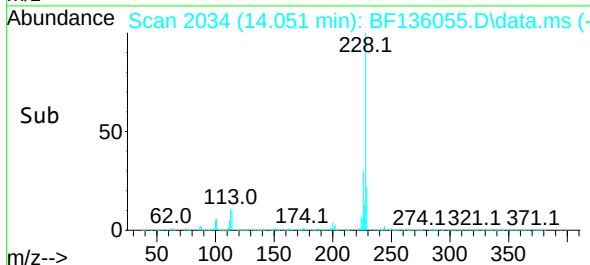
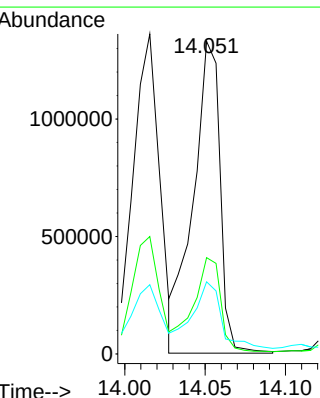
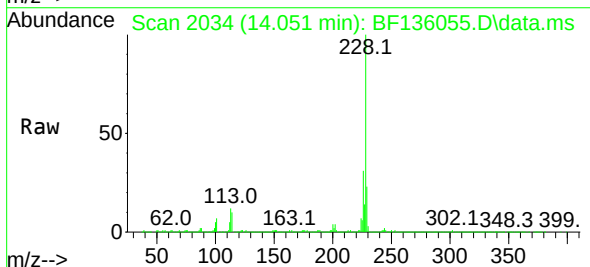
Tgt Ion:228 Resp: 1552337

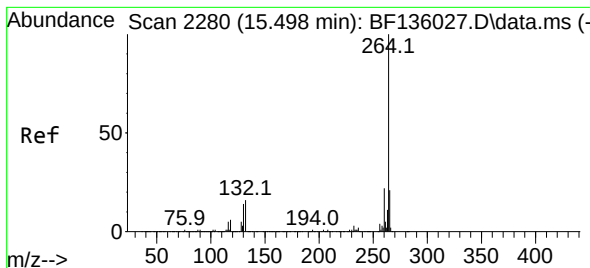
Ion Ratio Lower Upper

228 100

226 30.8 23.5 35.3

229 23.1 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.521 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)

Tgt Ion:264 Resp: 24525

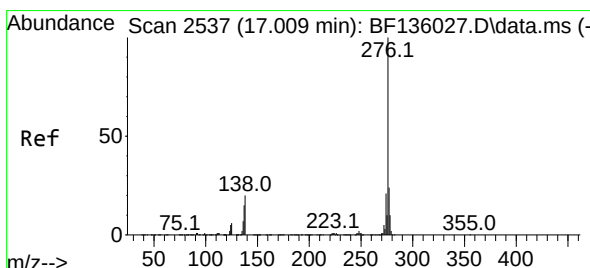
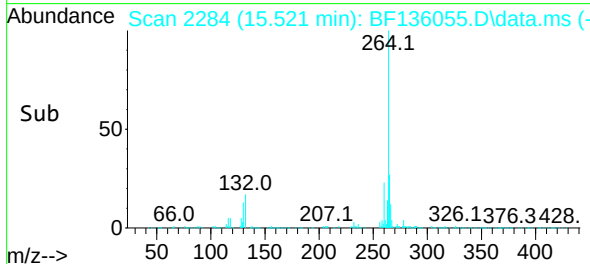
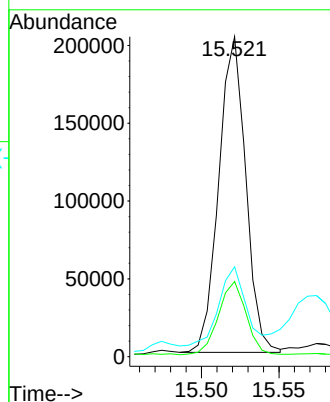
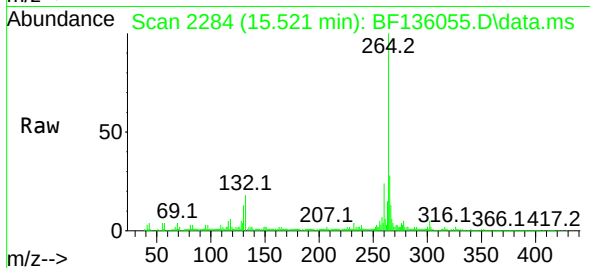
Ion	Ratio	Lower	Upper
264	100		
260	23.5	17.9	26.9
265	28.1	16.8	25.2

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: 31.093 ng

RT: 17.045 min Scan# 2543

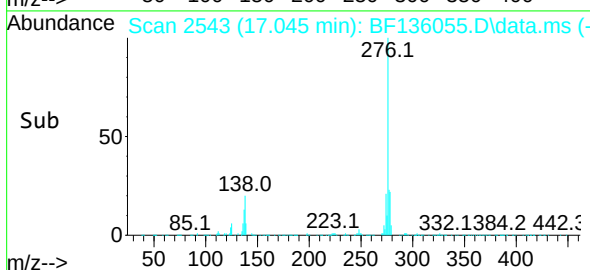
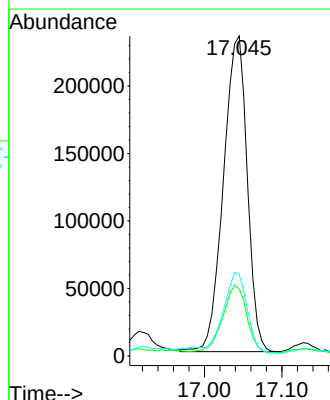
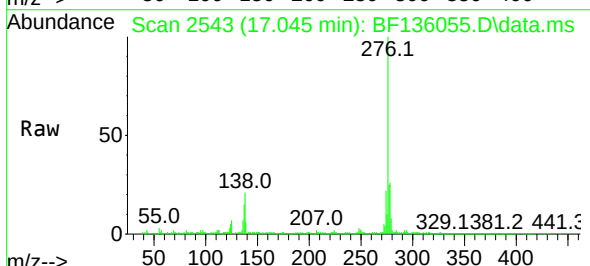
Delta R.T. 0.035 min

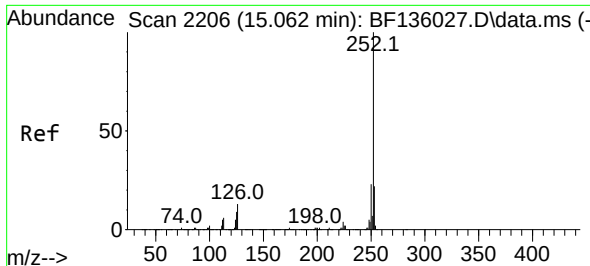
Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

Tgt Ion:276 Resp: 498386

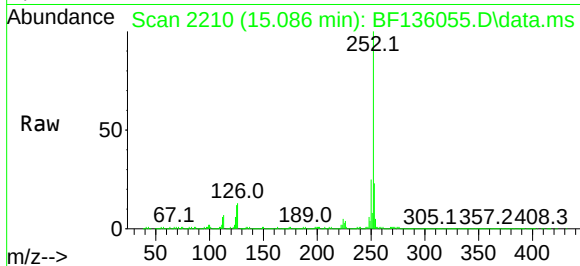
Ion	Ratio	Lower	Upper
276	100		
138	22.0	20.4	30.6
277	25.5	20.2	30.2





#88
Benzo(b)fluoranthene
Concen: 93.764 ng m
RT: 15.086 min Scan# 2114
Delta R.T. 0.024 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

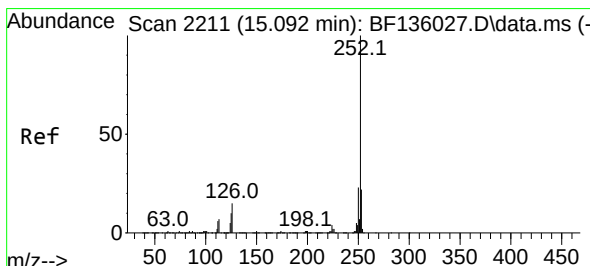
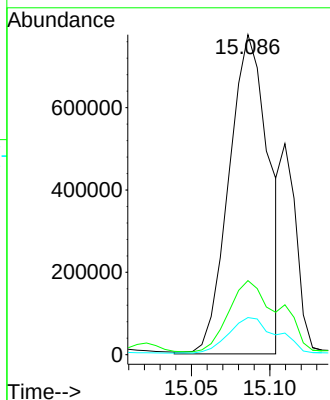
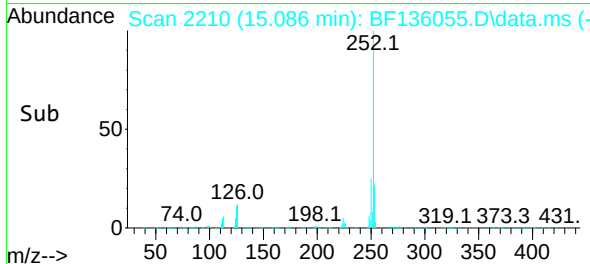
Instrument :
BNA_F
ClientSampleId :
M-2(0-5)



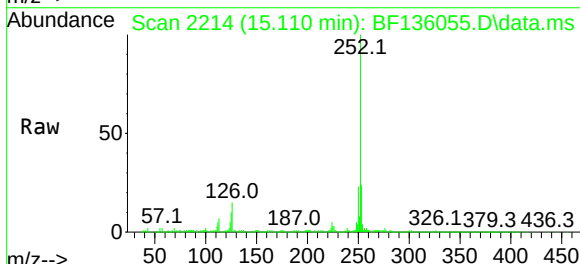
Tgt Ion:252 Resp: 1360714
Ion Ratio Lower Upper
252 100
253 23.2 17.7 26.5
125 11.6 7.5 11.3

Manual Integrations
APPROVED

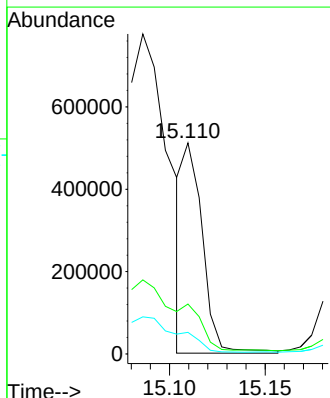
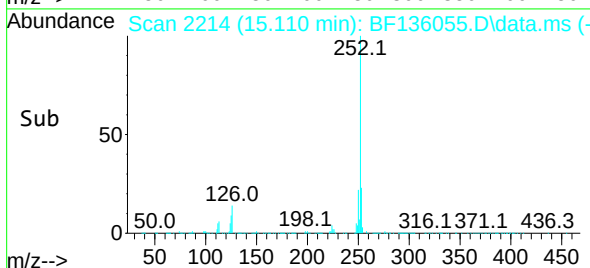
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

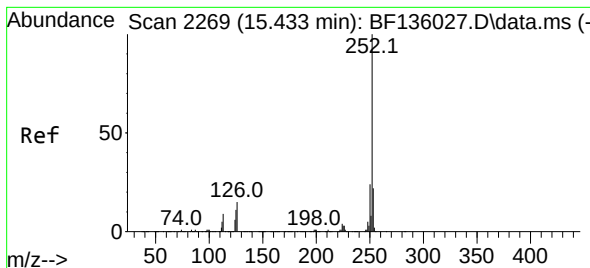


#89
Benzo(k)fluoranthene
Concen: 25.477 ng m
RT: 15.110 min Scan# 2214
Delta R.T. 0.018 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03



Tgt Ion:252 Resp: 365819
Ion Ratio Lower Upper
252 100
253 23.6 17.4 26.0
125 10.2 8.0 12.0





#90

Benzo(a)pyrene

Concen: 84.483 ng

RT: 15.463 min Scan# 21

Delta R.T. 0.030 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

Instrument :

BNA_F

ClientSampleId :

M-2(0-5)

Tgt Ion:252 Resp: 113916

Ion Ratio Lower Upper

252 100

253 23.5 17.3 25.9

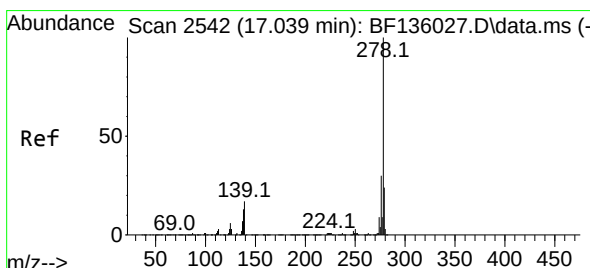
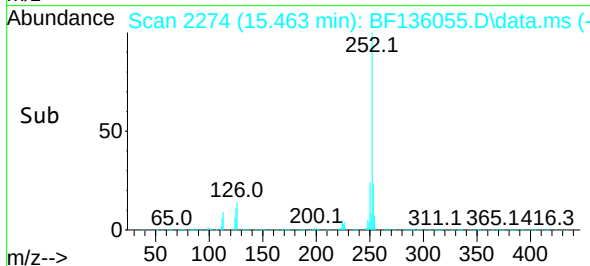
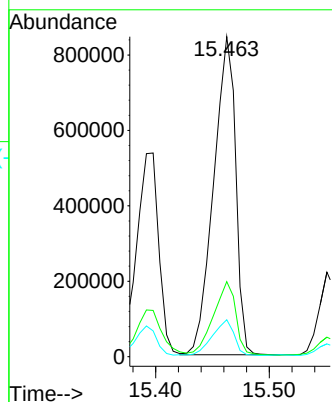
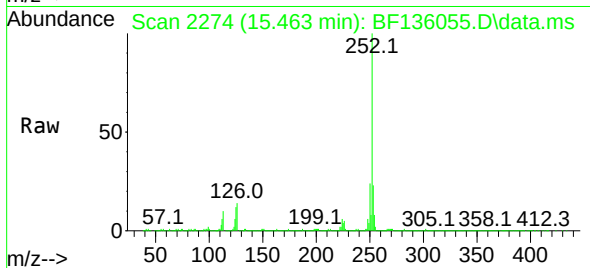
125 11.5 9.0 13.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#91

Dibenzo(a,h)anthracene

Concen: 11.210 ng

RT: 17.051 min Scan# 2544

Delta R.T. 0.012 min

Lab File: BF136055.D

Acq: 31 Oct 2023 17:03

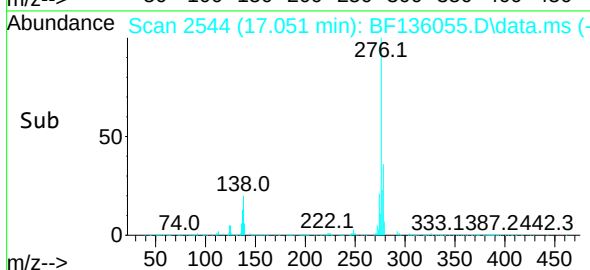
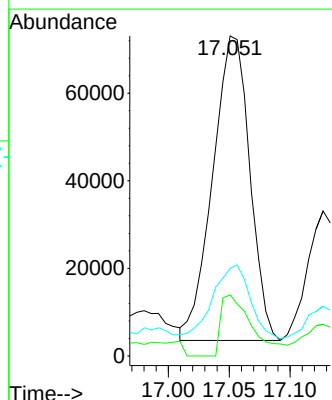
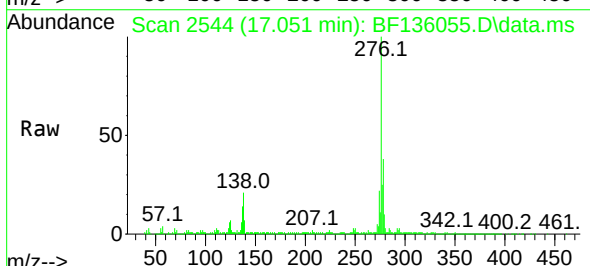
Tgt Ion:278 Resp: 147181

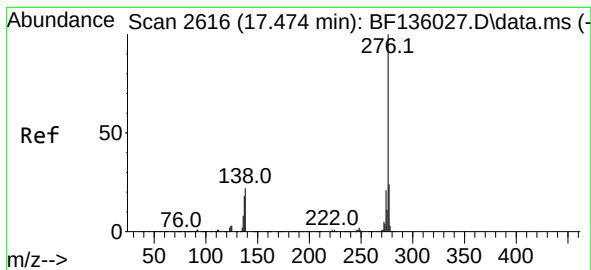
Ion Ratio Lower Upper

278 100

139 19.1 13.7 20.5

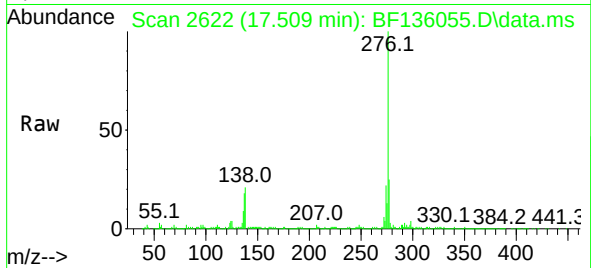
279 27.4 19.0 28.6





#92
Benzo(g,h,i)perylene
Concen: 35.203 ng
RT: 17.509 min Scan# 20
Delta R.T. 0.035 min
Lab File: BF136055.D
Acq: 31 Oct 2023 17:03

Instrument :
BNA_F
ClientSampleId :
M-2(0-5)



Tgt Ion:276 Resp: 51395
Ion Ratio Lower Upper
276 100
277 24.6 19.0 28.4
138 21.3 17.4 26.2

Manual Integrations
APPROVED

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

