

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
 Data File : BF136301.D
 Acq On : 30 Nov 2023 00:34
 Operator : CG\JU
 Sample : 05312-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P-4(170FT)(5-10)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023

Quant Time: Nov 30 00:56:58 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 28 03:04:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.804	152	98316	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	346280	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	146333	20.000	ng	0.00
64) Phenanthrene-d10	11.328	188	272561	20.000	ng	0.00
76) Chrysene-d12	13.986	240	227849	20.000	ng	0.00
86) Perylene-d12	15.468	264	174857	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	130721	18.506	ng	-0.01
7) Phenol-d6	6.428	99	154270	17.467	ng	-0.02
23) Nitrobenzene-d5	7.357	82	87766	13.393	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	20686	11.563	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	167537	14.624	ng	-0.01
79) Terphenyl-d14	12.922	244	213709	10.819	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.104	128	1504734	77.310	ng	99
37) 2-Methylnaphthalene	8.792	142	128071	10.490	ng	96
38) 1-Methylnaphthalene	8.892	142	68440	5.746	ng	93
46) 1,1'-Biphenyl	9.257	154	45944	3.560	ng	95
49) Acenaphthylene	9.698	152	129543	9.058	ng	96
52) Acenaphthene	9.869	154	22480	2.487	ng	88
55) Dibenzofuran	10.039	168	174670	12.988	ng	98
58) Fluorene	10.386	166	176445	16.727	ng	93
71) Phenanthrene	11.357	178	933271	60.922	ng	99
72) Anthracene	11.404	178	235138	15.306	ng	97
73) Carbazole	11.563	167	86526	6.622	ng	97
75) Fluoranthene	12.551	202	1002044	64.434	ng	96
78) Pyrene	12.780	202	823754	33.012	ng	98
81) Benzo(a)anthracene	13.974	228	405532m	23.962	ng	
83) Chrysene	14.010	228	317004	19.400	ng	94
87) Indeno(1,2,3-cd)pyrene	16.962	276	102848	10.109	ng	96
88) Benzo(b)fluoranthene	15.033	252	321648m	26.219	ng	
89) Benzo(k)fluoranthene	15.057	252	103752m	8.905	ng	
90) Benzo(a)pyrene	15.404	252	206296	20.571	ng	97
91) Dibenzo(a,h)anthracene	16.974	278	23013	4.783	ng	# 73
92) Benzo(g,h,i)perylene	17.421	276	92651	10.354	ng	99

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

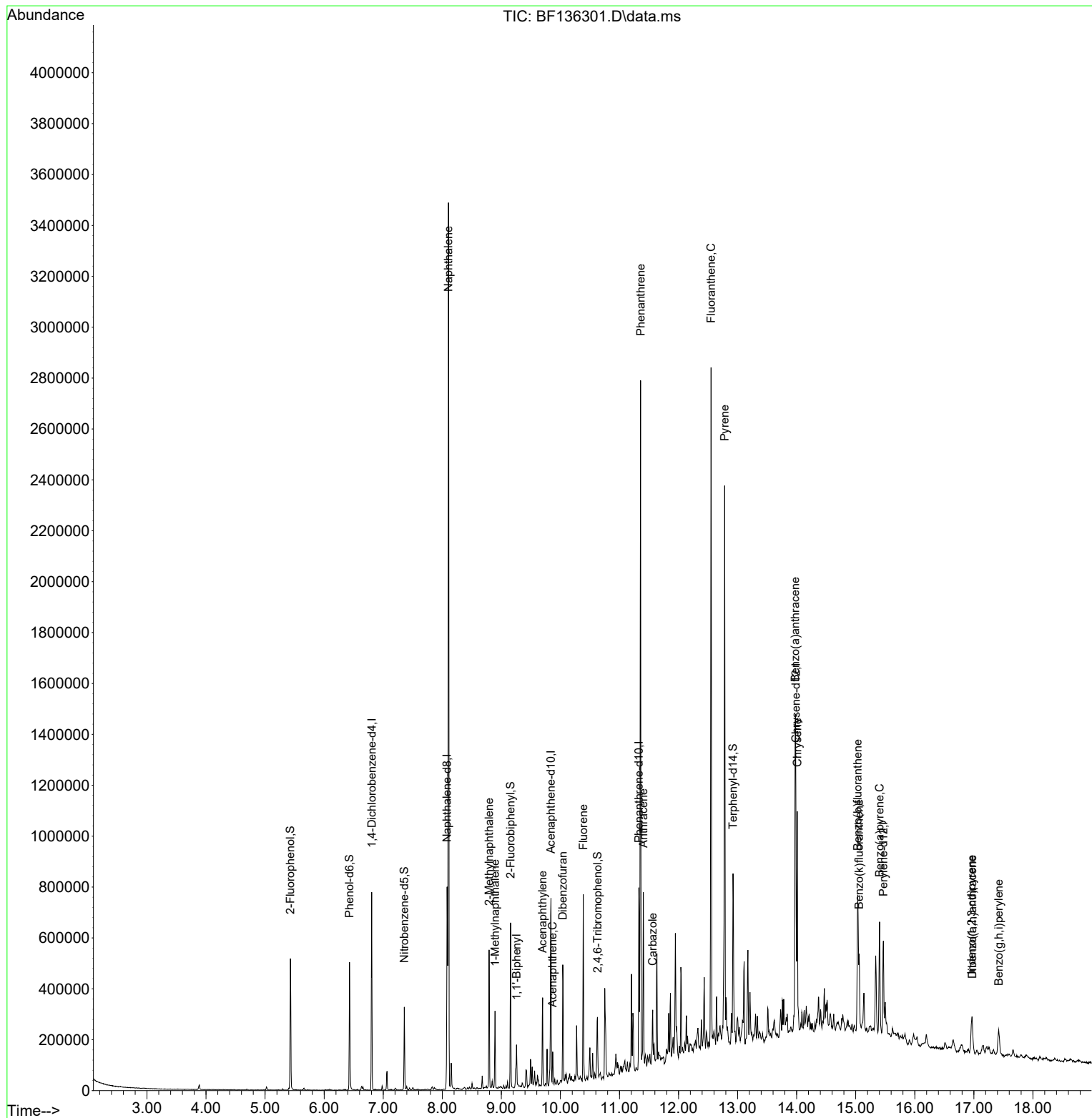
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
Data File : BF136301.D
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Misc :
ALS Vial : 20 Sample Multiplier: 1

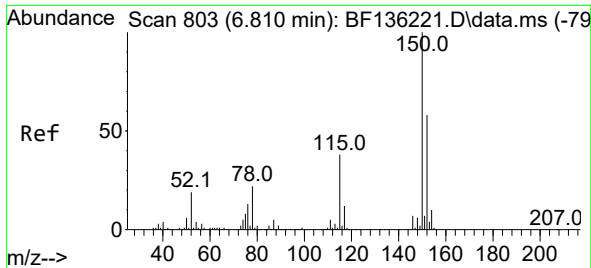
Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)

Quant Time: Nov 30 00:56:58 2023
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 28 03:04:20 2023
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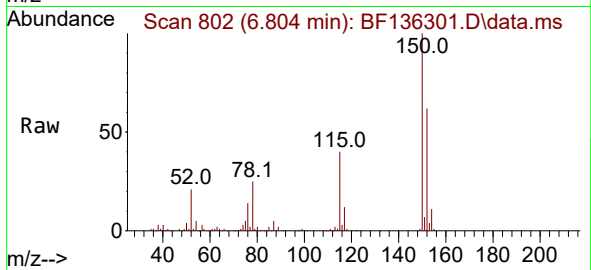
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

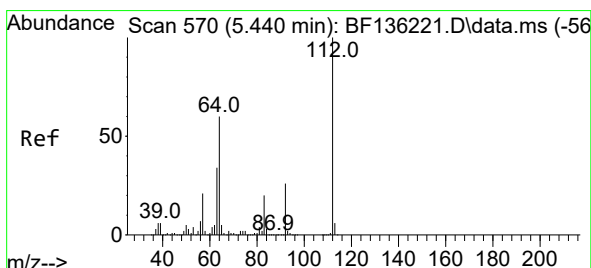
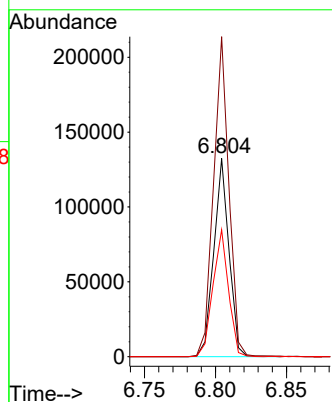
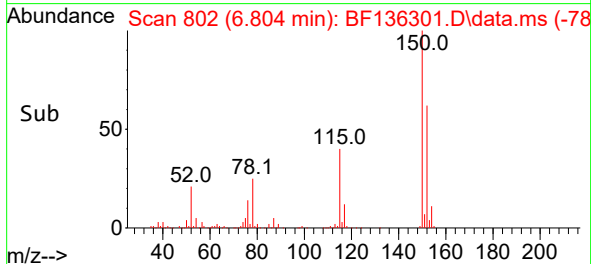
Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)



Tgt Ion:152 Resp: 98310
Ion Ratio Lower Upper
152 100
150 161.4 137.8 206.8
115 64.0 52.7 79.1

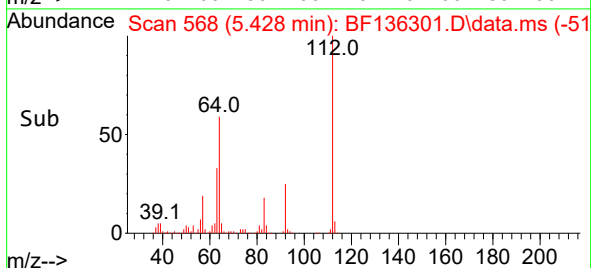
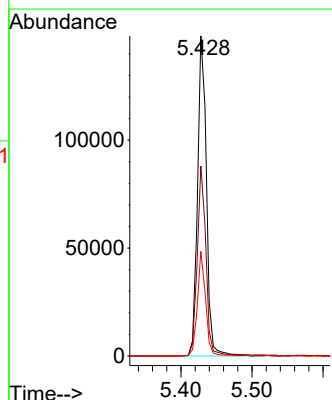
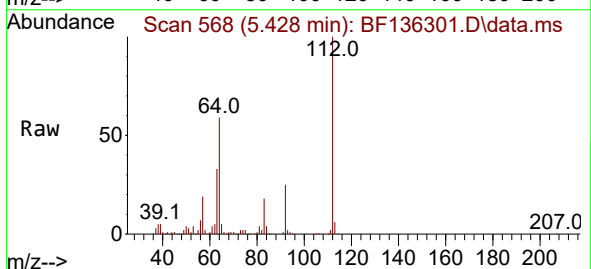
Manual Integrations
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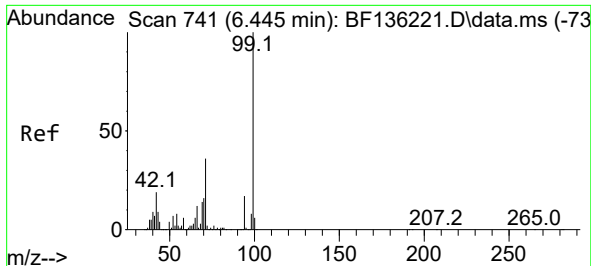
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#5
2-Fluorophenol
Concen: 18.506 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.012 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

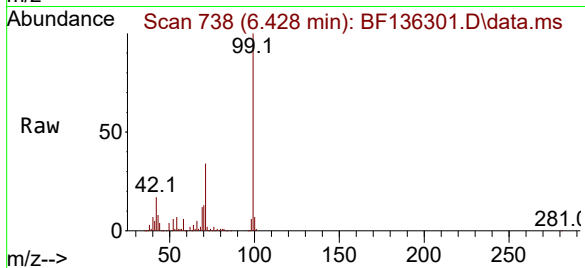
Tgt Ion:112 Resp: 130721
Ion Ratio Lower Upper
112 100
64 59.4 48.2 72.4
63 32.7 27.0 40.6





#7
Phenol-d6
Concen: 17.467 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

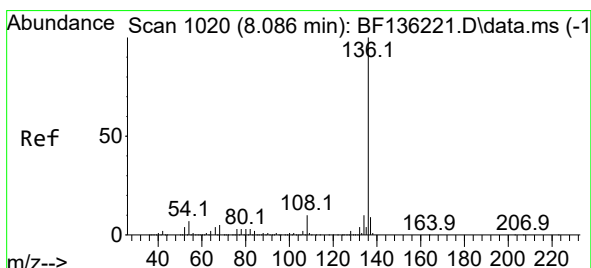
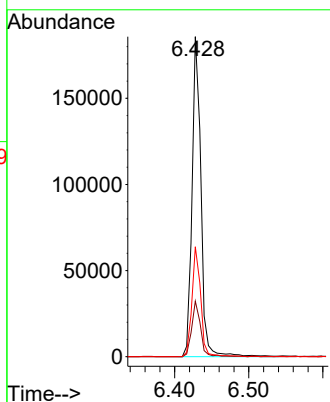
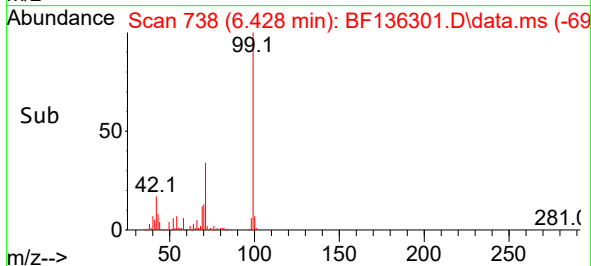
Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)



Tgt Ion: 99 Resp: 154270
Ion Ratio Lower Upper
99 100
42 17.4 15.0 22.6
71 34.3 28.9 43.3

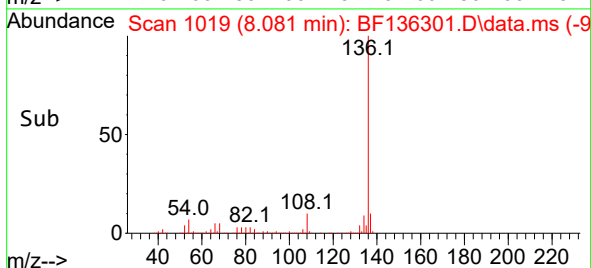
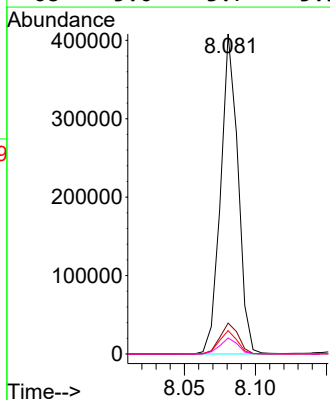
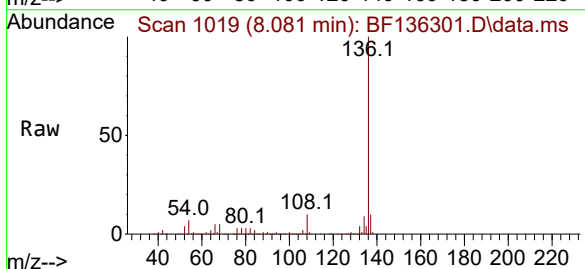
Manual Integrations
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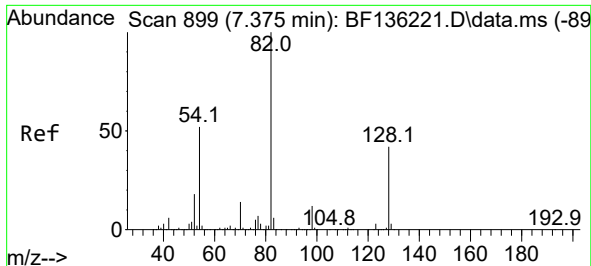
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

Tgt Ion:136 Resp: 346280
Ion Ratio Lower Upper
136 100
137 9.6 7.4 11.2
54 7.3 5.5 8.3
68 5.0 3.7 5.5





#23

Nitrobenzene-d5

Concen: 13.393 ng

RT: 7.357 min Scan# 899

Delta R.T. -0.017 min

Lab File: BF136301.D

Acq: 30 Nov 2023 00:34

Instrument :

BNA_F

ClientSampleId :

P-4(170FT)(5-10)

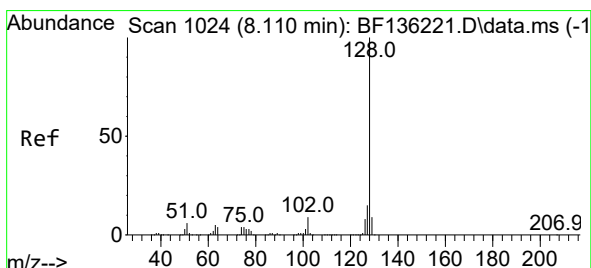
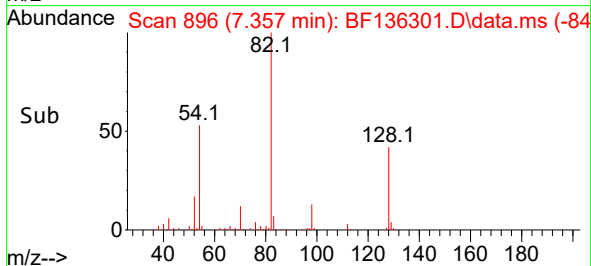
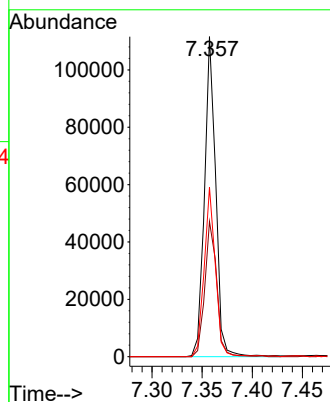
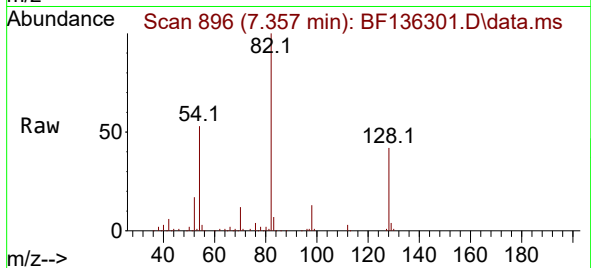
Tgt Ion:	82	Resp:	87760
Ion Ratio	Lower	Upper	
82	100		
128	42.3	33.4	50.2
54	52.9	41.7	62.5

Manual Integrations

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Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#31

Naphthalene

Concen: 77.310 ng

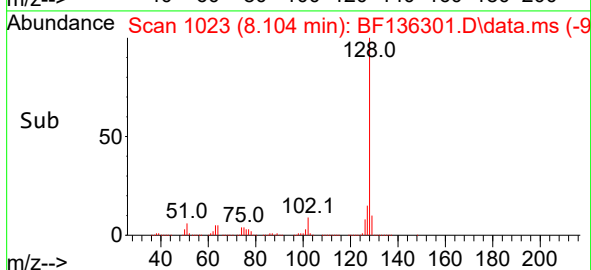
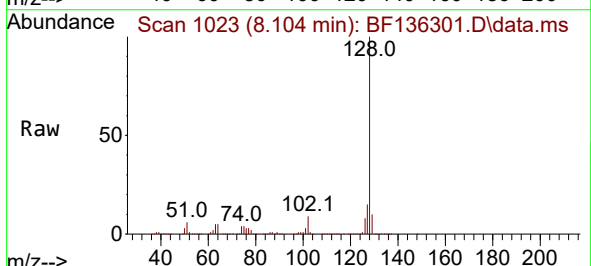
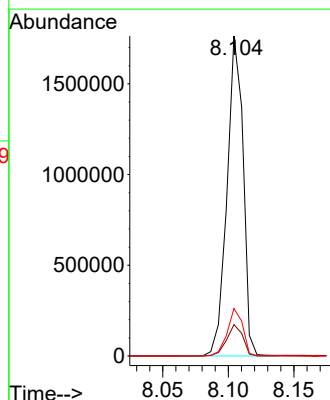
RT: 8.104 min Scan# 1023

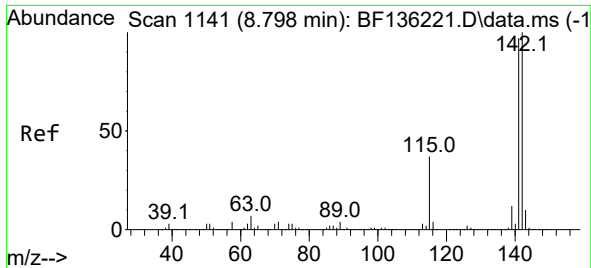
Delta R.T. -0.006 min

Lab File: BF136301.D

Acq: 30 Nov 2023 00:34

Tgt Ion:	128	Resp:	1504734
Ion Ratio	Lower	Upper	
128	100		
129	9.8	7.3	10.9
127	14.9	11.8	17.6





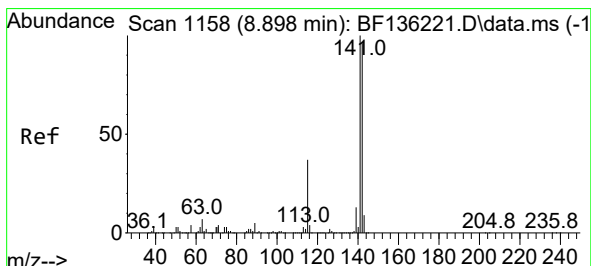
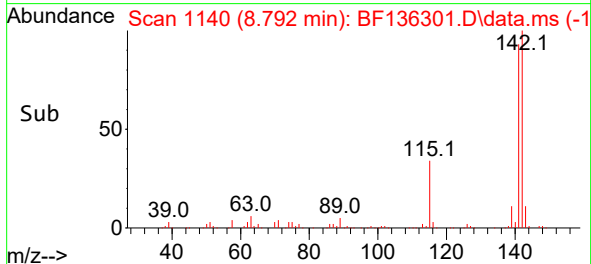
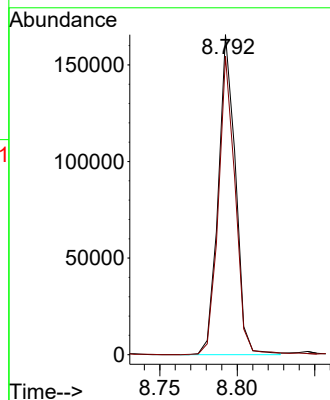
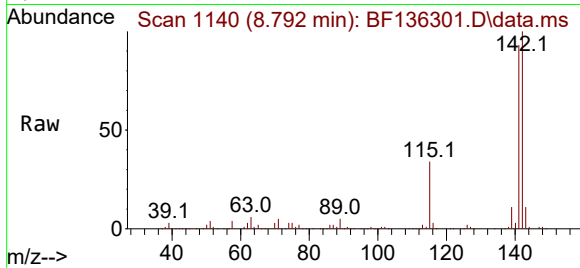
#37
2-Methylnaphthalene
Concen: 10.490 ng
RT: 8.792 min Scan# 1141
Delta R.T. -0.006 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)

Tgt Ion:142 Resp: 12807
Ion Ratio Lower Upper
142 100
141 93.3 77.8 116.8

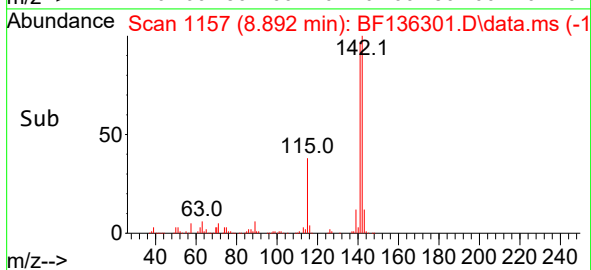
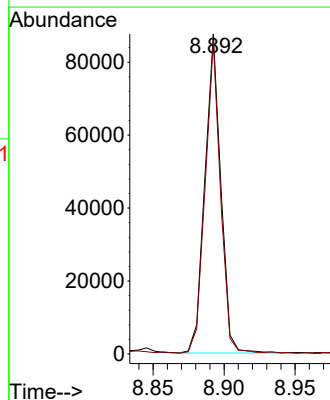
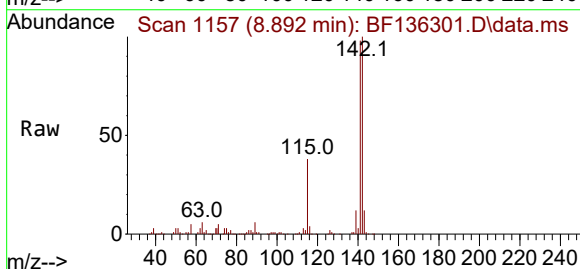
Manual Integrations
APPROVED

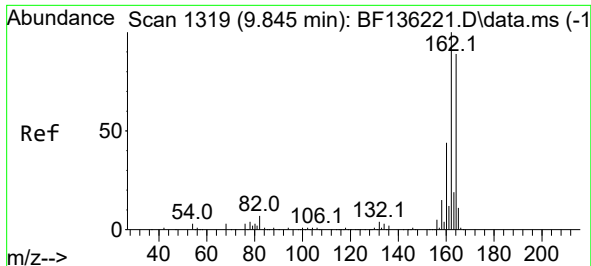
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#38
1-Methylnaphthalene
Concen: 5.746 ng
RT: 8.892 min Scan# 1157
Delta R.T. -0.006 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

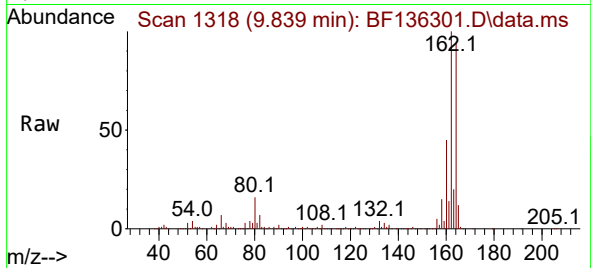
Tgt Ion:142 Resp: 68440
Ion Ratio Lower Upper
142 100
141 97.7 83.8 125.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

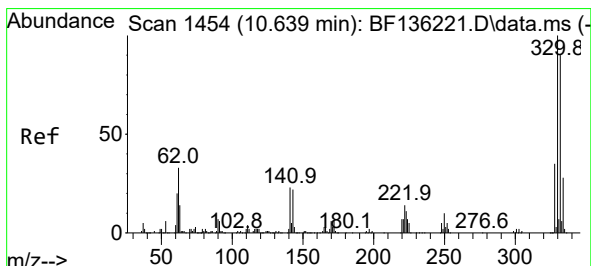
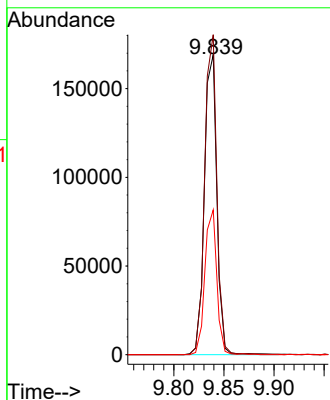
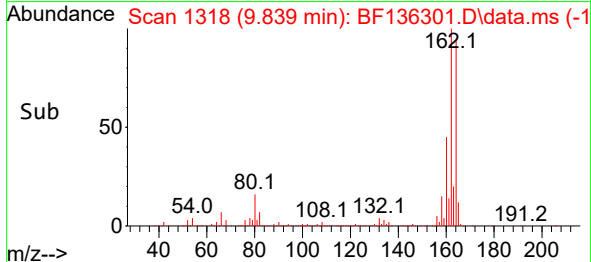
Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)



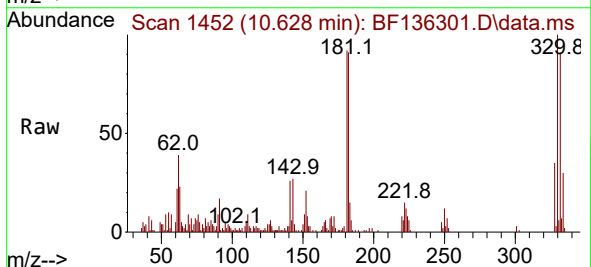
Tgt Ion:164 Resp: 14633
Ion Ratio Lower Upper
164 100
162 106.7 89.5 134.3
160 48.3 39.6 59.4

Manual Integrations
APPROVED

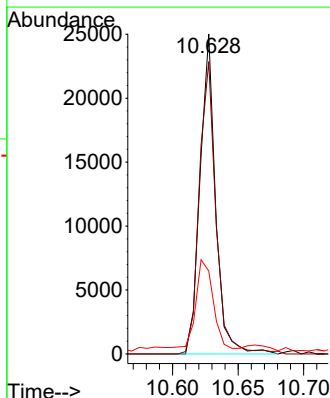
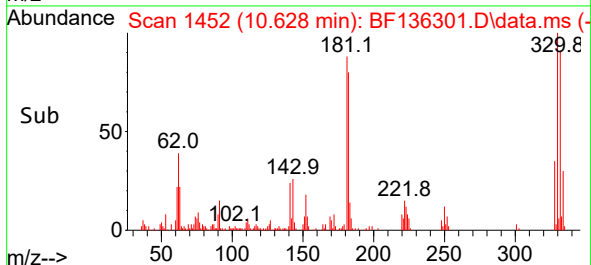
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

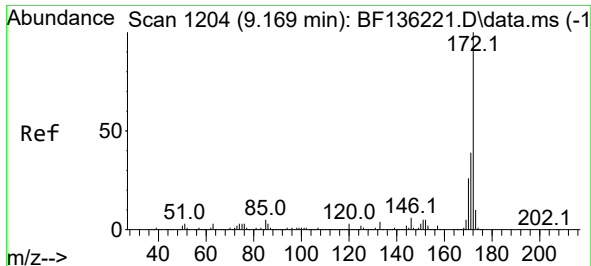


#42
2,4,6-Tribromophenol
Concen: 11.563 ng
RT: 10.628 min Scan# 1452
Delta R.T. -0.012 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34



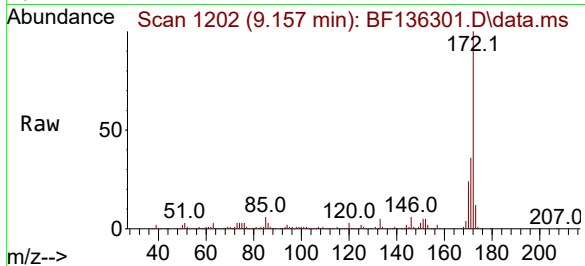
Tgt Ion:330 Resp: 20686
Ion Ratio Lower Upper
330 100
332 98.1 73.0 109.6
141 35.3 24.2 36.2





#45
2-Fluorobiphenyl
Concen: 14.624 ng
RT: 9.157 min Scan# 1202
Delta R.T. -0.012 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

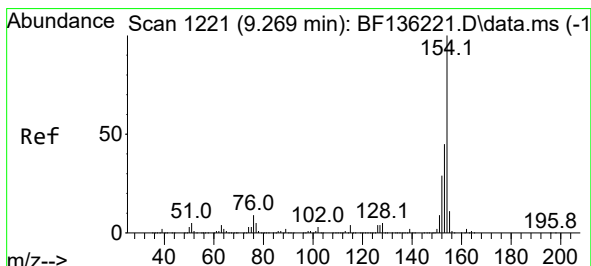
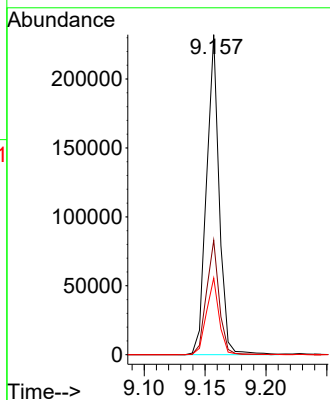
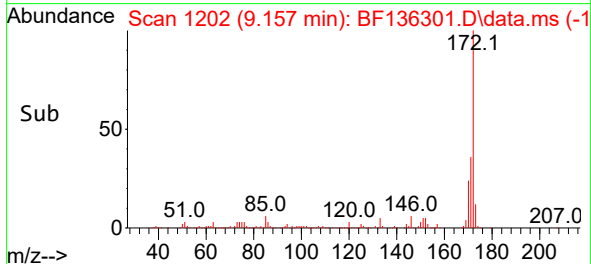
Instrument :
BNA_F
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P-4(170FT)(5-10)



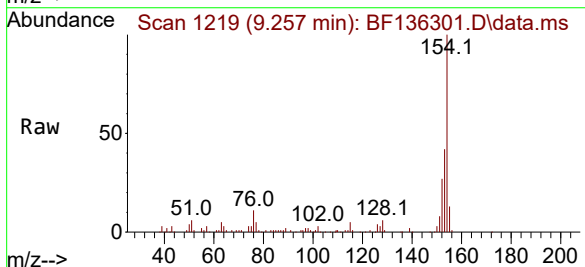
Tgt Ion:172 Resp: 16753
Ion Ratio Lower Upper
172 100
171 35.7 31.5 47.3
170 24.0 20.8 31.2

Manual Integrations
APPROVED

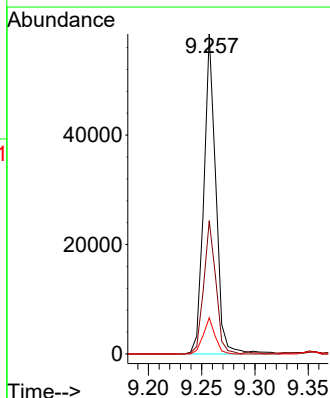
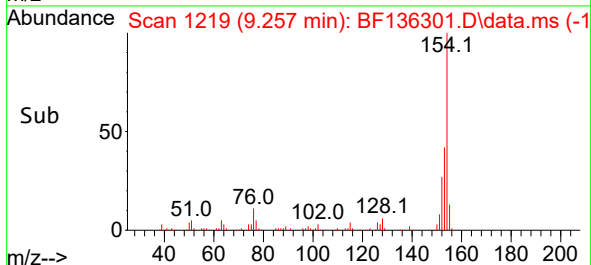
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

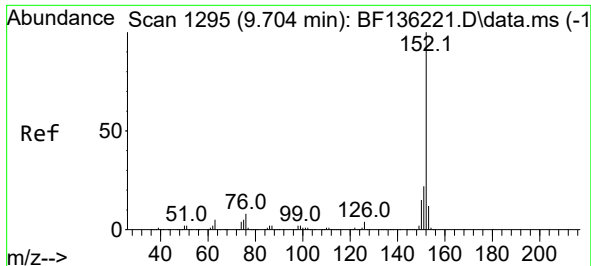


#46
1,1'-Biphenyl
Concen: 3.560 ng
RT: 9.257 min Scan# 1219
Delta R.T. -0.012 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34



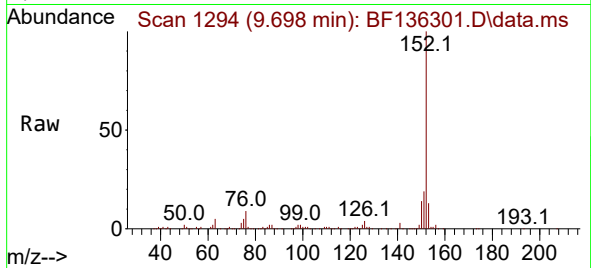
Tgt Ion:154 Resp: 45944
Ion Ratio Lower Upper
154 100
153 41.7 24.6 64.6
76 11.3 0.0 29.4





#49
Acenaphthylene
Concen: 9.058 ng
RT: 9.698 min Scan# 1294
Delta R.T. -0.006 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

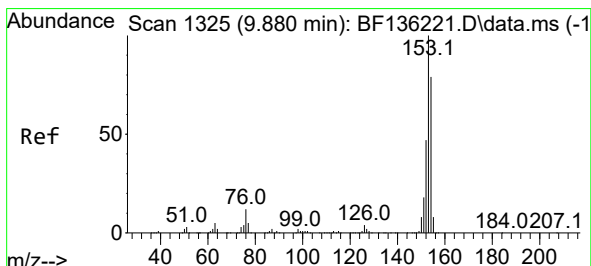
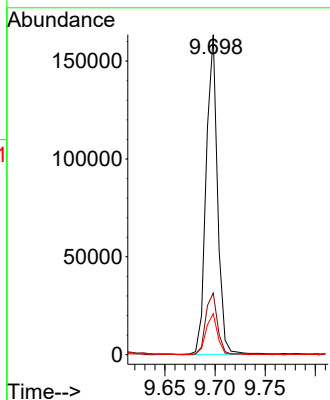
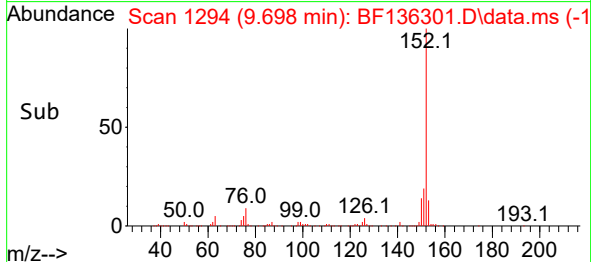
Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)



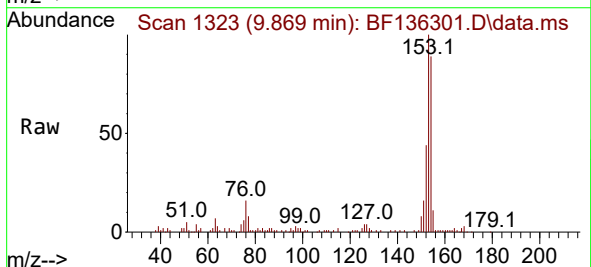
Tgt Ion:152 Resp: 12954
Ion Ratio Lower Upper
152 100
151 19.2 17.5 26.3
153 12.8 9.6 14.4

Manual Integrations
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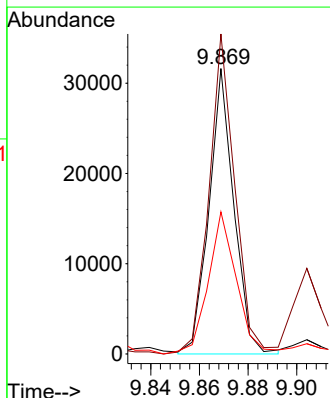
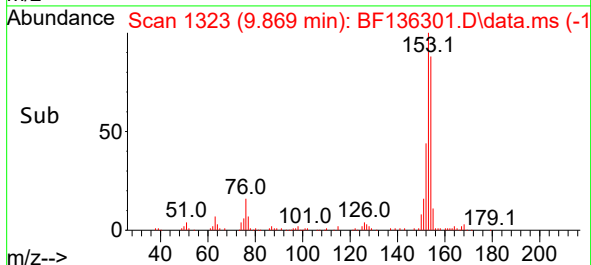
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

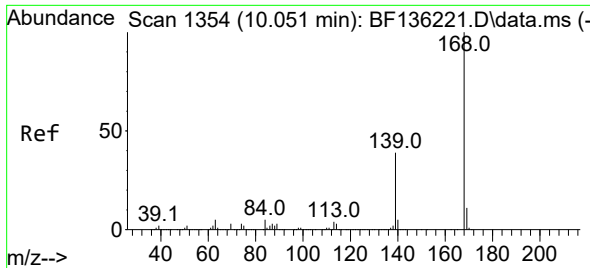


#52
Acenaphthene
Concen: 2.487 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.012 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34



Tgt Ion:154 Resp: 22480
Ion Ratio Lower Upper
154 100
153 112.1 100.8 151.2
152 49.8 47.0 70.6





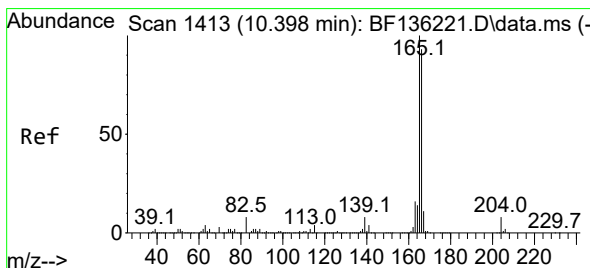
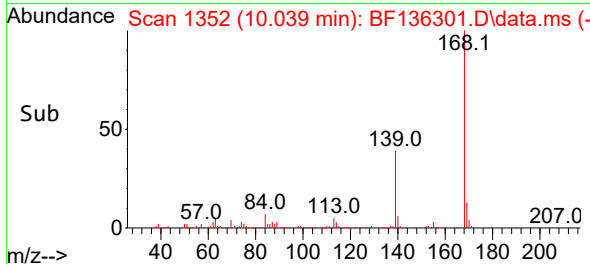
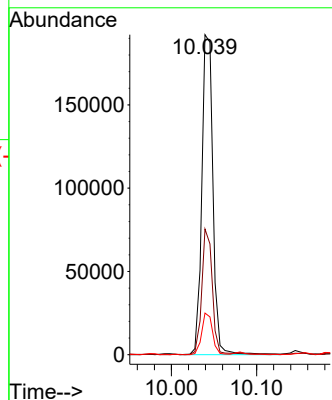
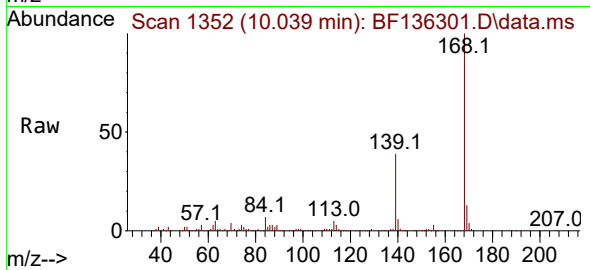
#55
Dibenzenofuran
Concen: 12.988 ng
RT: 10.039 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)

Tgt Ion:168 Resp: 174670
Ion Ratio Lower Upper
168 100
139 39.2 30.9 46.3
169 13.0 9.1 13.7

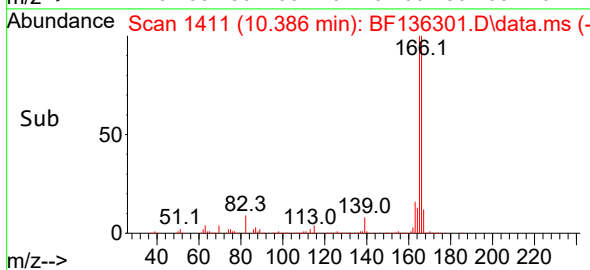
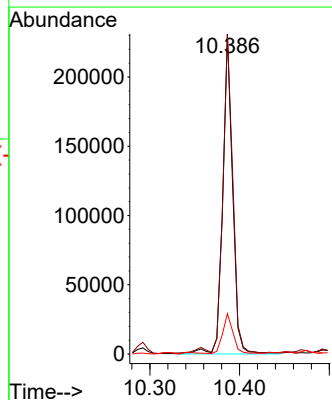
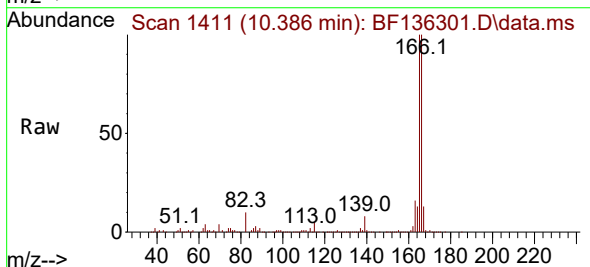
Manual Integrations
APPROVED

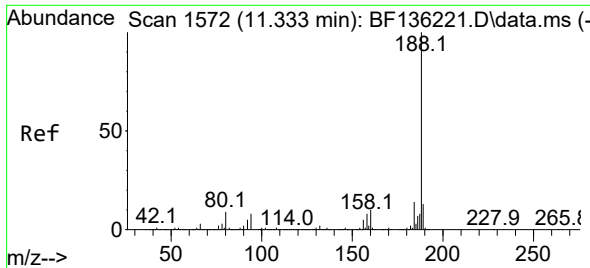
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#58
Fluorene
Concen: 16.727 ng
RT: 10.386 min Scan# 1411
Delta R.T. -0.012 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

Tgt Ion:166 Resp: 176445
Ion Ratio Lower Upper
166 100
165 100.0 86.2 129.4
167 12.6 9.1 13.7





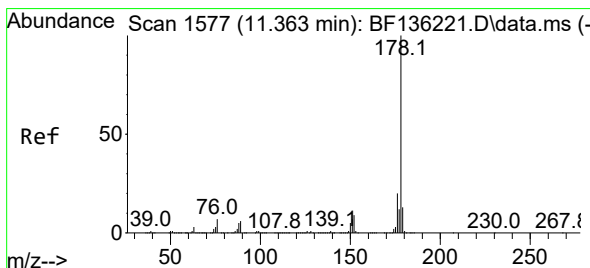
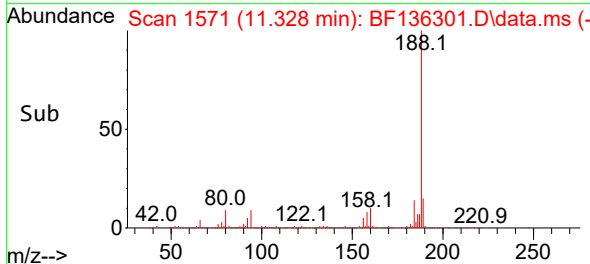
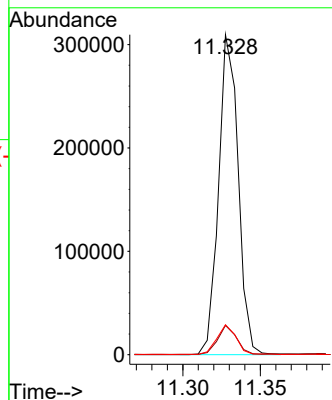
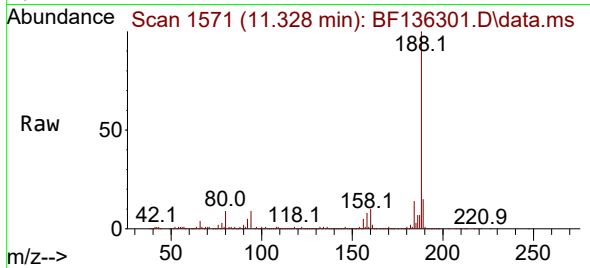
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.328 min Scan# 1571
Delta R.T. -0.005 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)

Tgt Ion:188 Resp: 27256
Ion Ratio Lower Upper
188 100
94 9.1 6.7 10.1
80 9.3 7.2 10.8

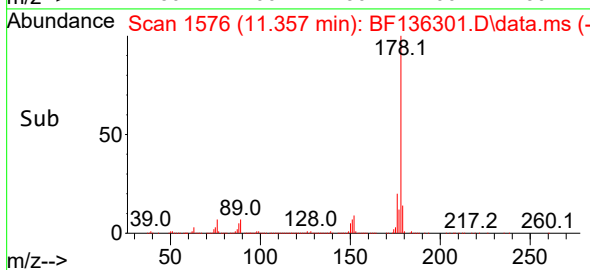
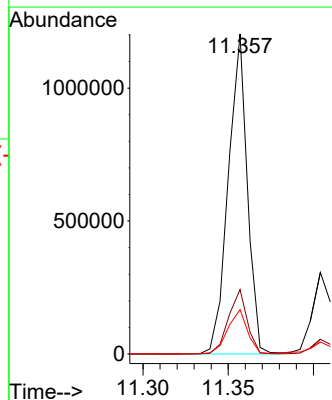
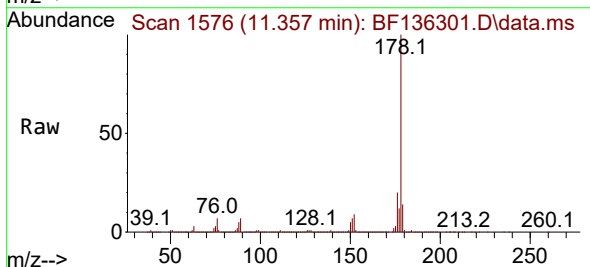
Manual Integrations
APPROVED

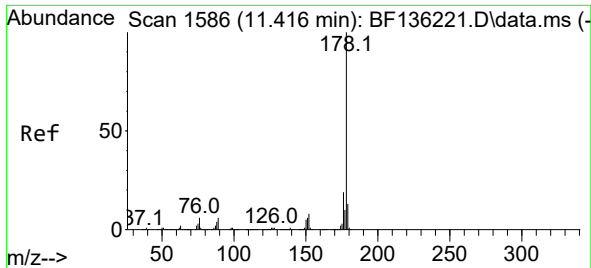
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#71
Phenanthrene
Concen: 60.922 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

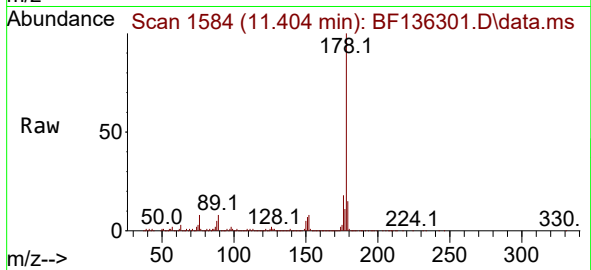
Tgt Ion:178 Resp: 933271
Ion Ratio Lower Upper
178 100
176 20.1 16.2 24.2
179 13.8 10.3 15.5





#72
 Anthracene
 Concen: 15.306 ng
 RT: 11.404 min Scan# 1584
 Delta R.T. -0.012 min
 Lab File: BF136301.D
 Acq: 30 Nov 2023 00:34

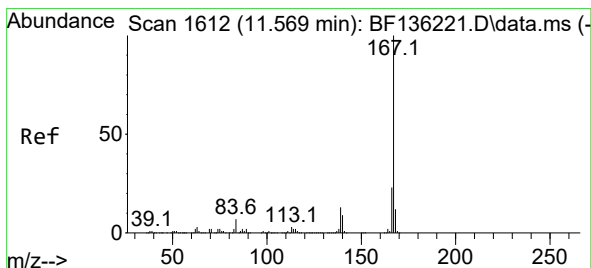
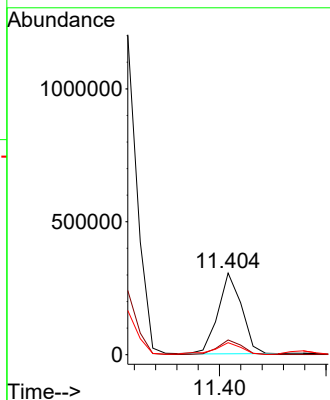
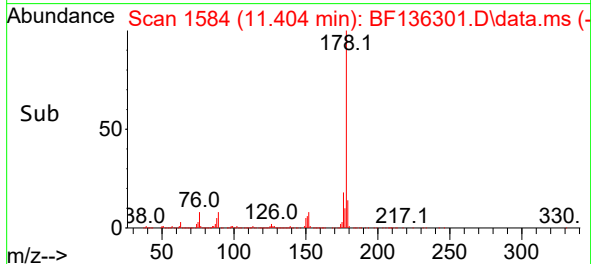
Instrument :
 BNA_F
 ClientSampleId :
 P-4(170FT)(5-10)



Tgt Ion:178 Resp: 235138
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.5 23.3
 179 14.6 10.5 15.7

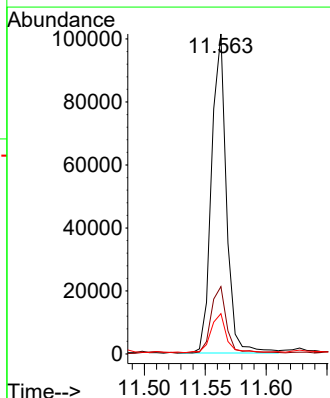
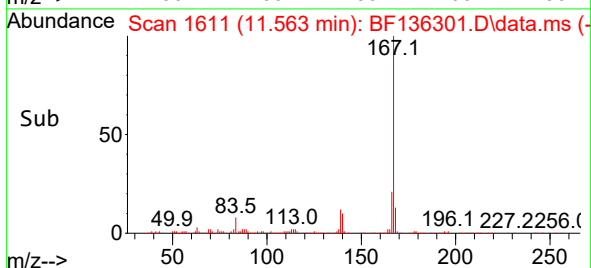
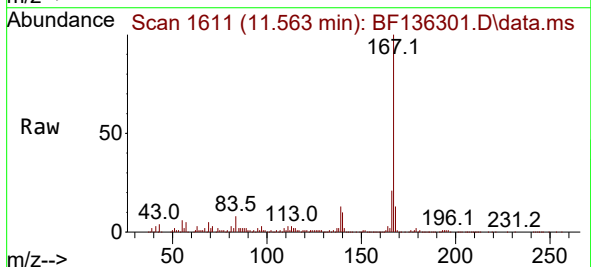
Manual Integrations
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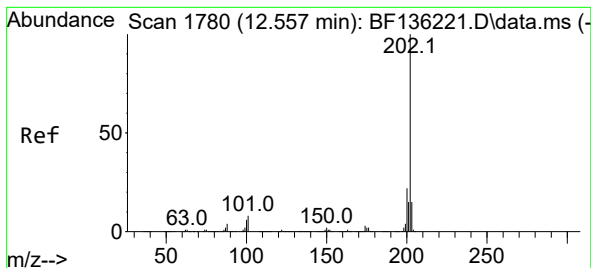
Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023



#73
 Carbazole
 Concen: 6.622 ng
 RT: 11.563 min Scan# 1611
 Delta R.T. -0.006 min
 Lab File: BF136301.D
 Acq: 30 Nov 2023 00:34

Tgt Ion:167 Resp: 86526
 Ion Ratio Lower Upper
 167 100
 166 21.0 18.4 27.6
 139 12.6 10.5 15.7





#75

Fluoranthene

Concen: 64.434 ng

RT: 12.551 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF136301.D

Acq: 30 Nov 2023 00:34

Instrument :

BNA_F

ClientSampleId :

P-4(170FT)(5-10)

Tgt Ion:202 Resp: 100204

Ion Ratio Lower Upper

202 100

101 10.0 0.0 27.8

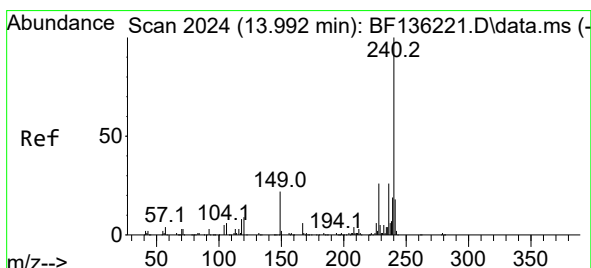
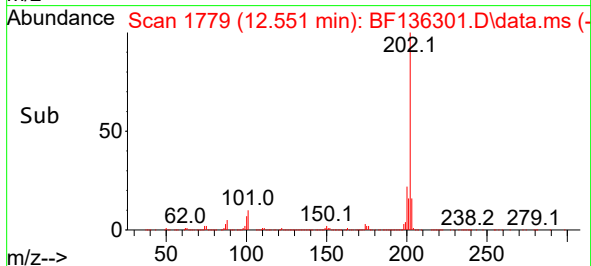
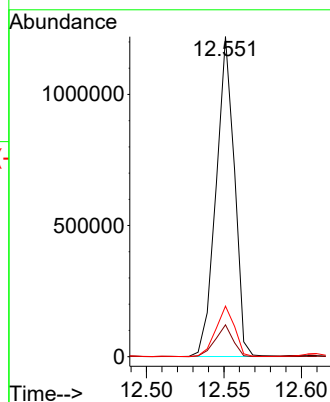
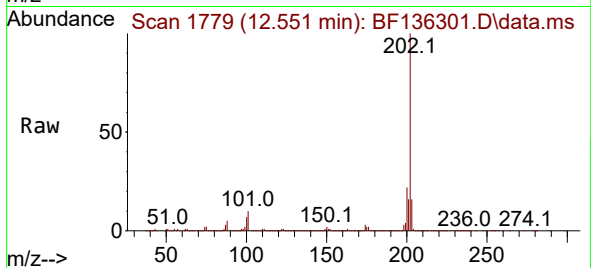
203 15.8 0.0 34.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.986 min Scan# 2023

Delta R.T. -0.006 min

Lab File: BF136301.D

Acq: 30 Nov 2023 00:34

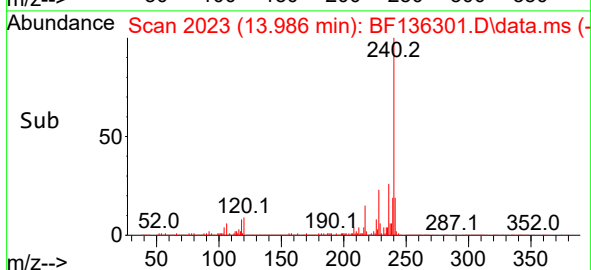
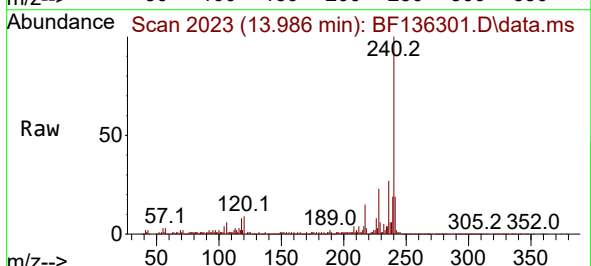
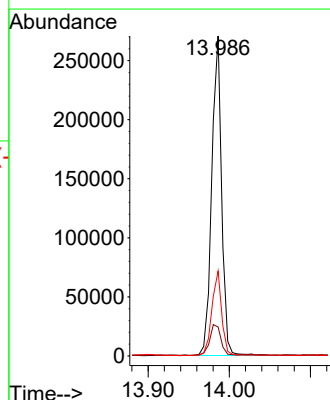
Tgt Ion:240 Resp: 227849

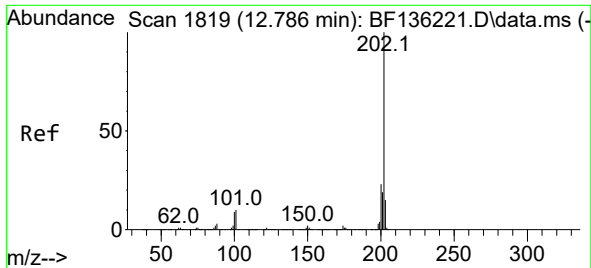
Ion Ratio Lower Upper

240 100

120 9.1 7.4 11.2

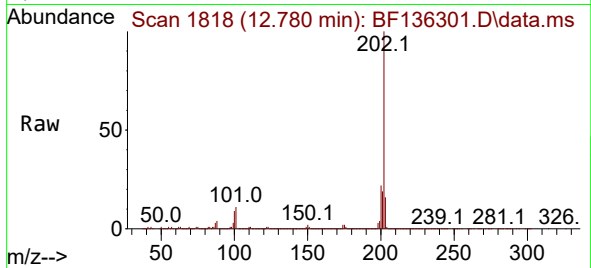
236 26.6 21.1 31.7





#78
Pyrene
Concen: 33.012 ng
RT: 12.780 min Scan# 1819
Delta R.T. -0.006 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

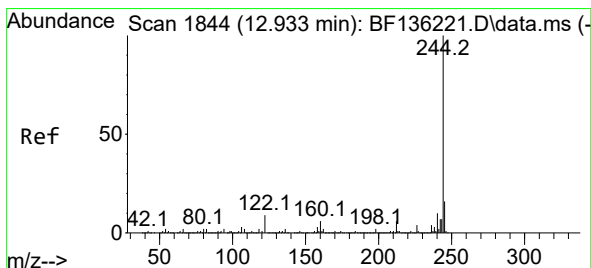
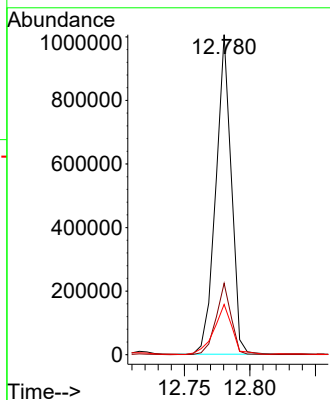
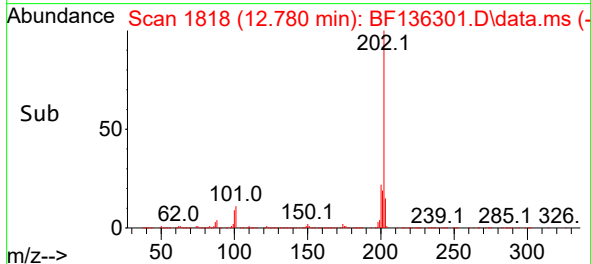
Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)



Tgt Ion:202 Resp: 823754
Ion Ratio Lower Upper
202 100
200 22.3 18.4 27.6
203 15.7 11.8 17.6

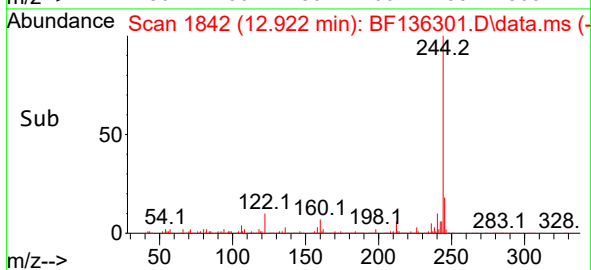
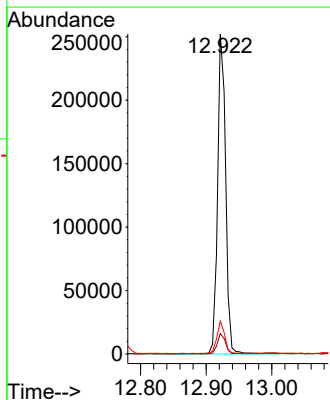
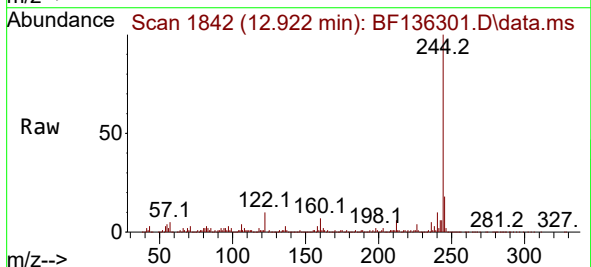
Manual Integrations
APPROVED

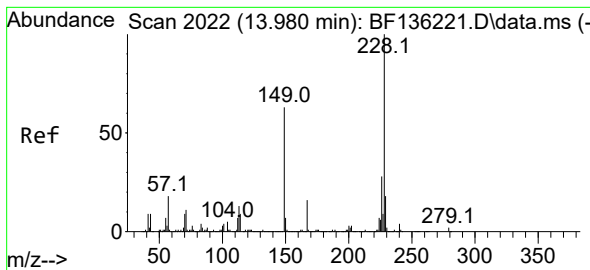
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#79
Terphenyl-d14
Concen: 10.819 ng
RT: 12.922 min Scan# 1842
Delta R.T. -0.012 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

Tgt Ion:244 Resp: 213709
Ion Ratio Lower Upper
244 100
212 6.3 4.6 7.0
122 10.3 7.3 10.9





#81

Benzo(a)anthracene

Concen: 23.962 ng m

RT: 13.974 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136301.D

Acq: 30 Nov 2023 00:34

Instrument :

BNA_F

ClientSampleId :

P-4(170FT)(5-10)

Tgt Ion:228 Resp: 40553

Ion Ratio Lower Upper

228 100

226 35.6 22.6 34.0

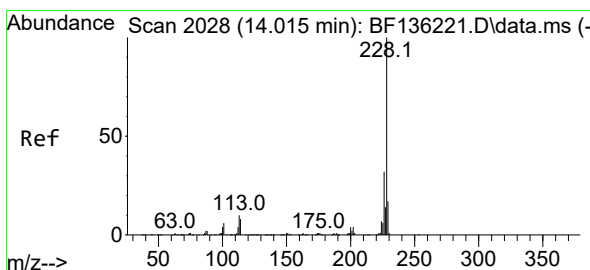
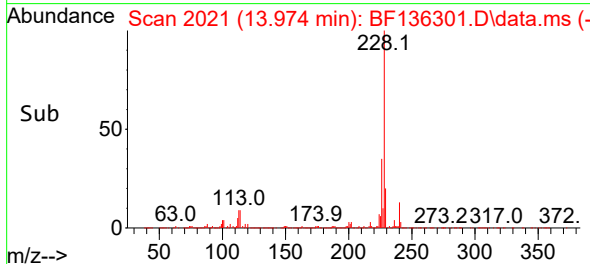
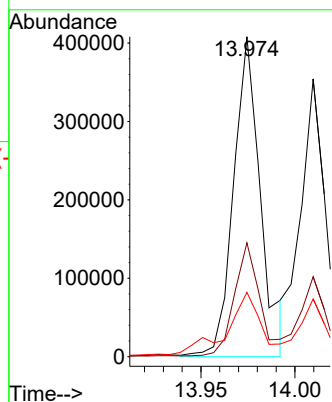
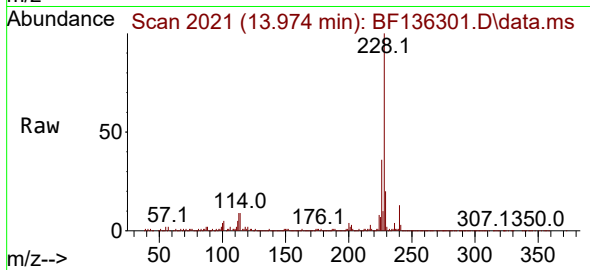
229 20.1 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#83

Chrysene

Concen: 19.400 ng

RT: 14.010 min Scan# 2027

Delta R.T. -0.006 min

Lab File: BF136301.D

Acq: 30 Nov 2023 00:34

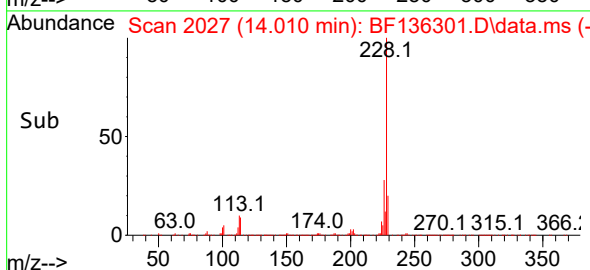
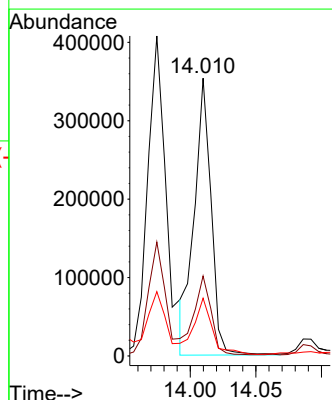
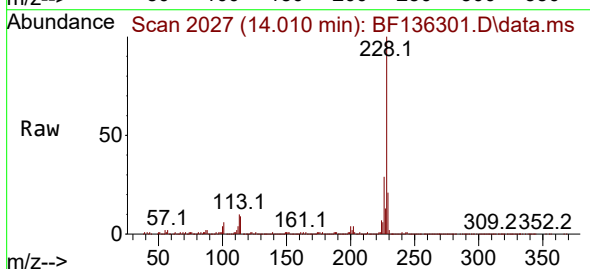
Tgt Ion:228 Resp: 317004

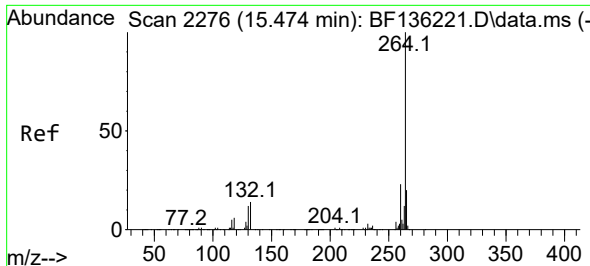
Ion Ratio Lower Upper

228 100

226 28.8 25.5 38.3

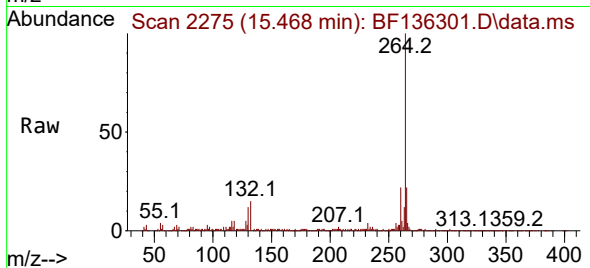
229 20.8 13.9 20.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

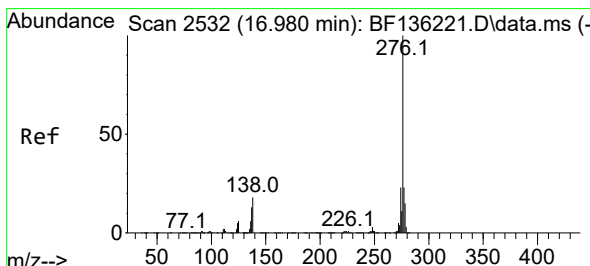
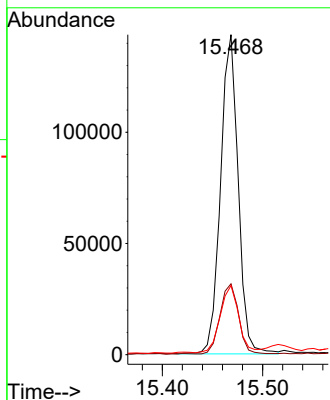
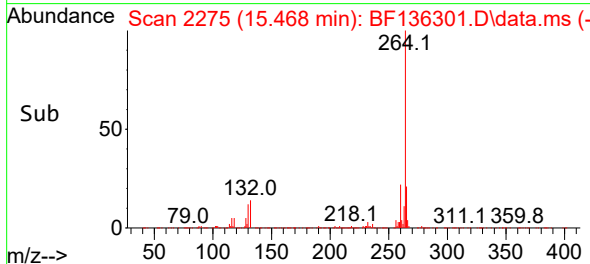
Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)



Tgt Ion:264 Resp: 17485
Ion Ratio Lower Upper
264 100
260 22.2 18.6 27.8
265 21.6 15.7 23.5

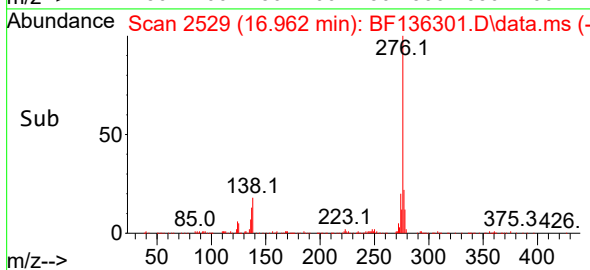
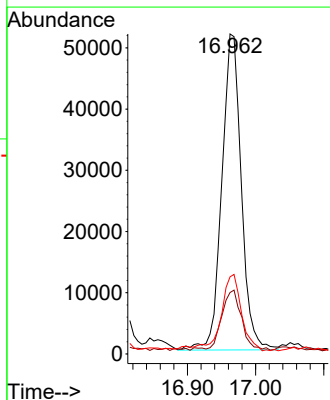
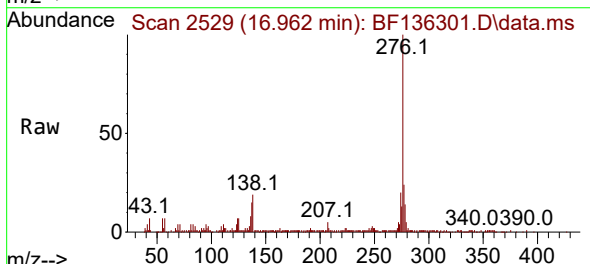
Manual Integrations
APPROVED

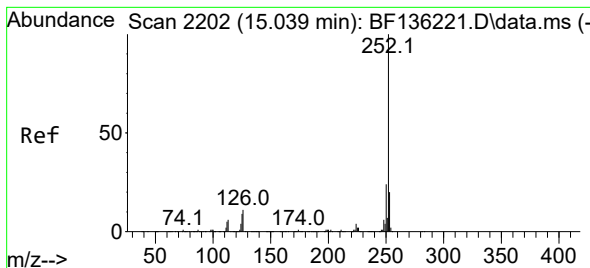
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 10.109 ng
RT: 16.962 min Scan# 2529
Delta R.T. -0.018 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

Tgt Ion:276 Resp: 102848
Ion Ratio Lower Upper
276 100
138 19.0 17.7 26.5
277 25.0 19.6 29.4





#88

Benzo(b)fluoranthene

Concen: 26.219 ng m

RT: 15.033 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136301.D

Acq: 30 Nov 2023 00:34

Instrument :

BNA_F

ClientSampleId :

P-4(170FT)(5-10)

Tgt Ion:252 Resp: 32164

Ion Ratio Lower Upper

252 100

253 21.6 16.2 24.2

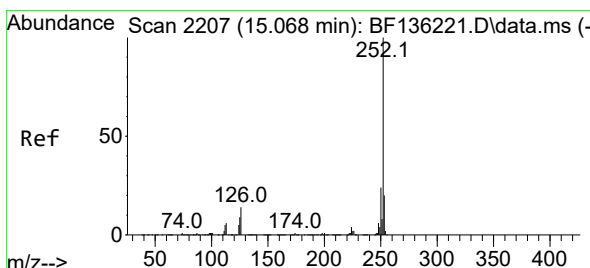
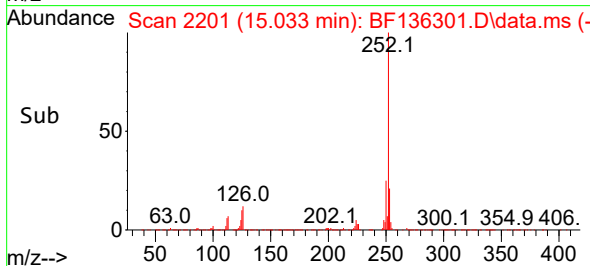
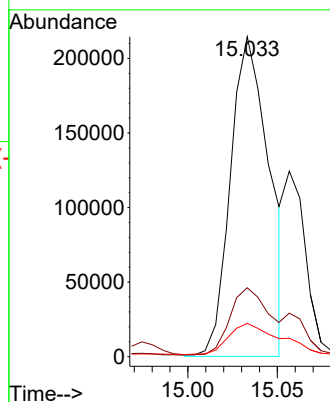
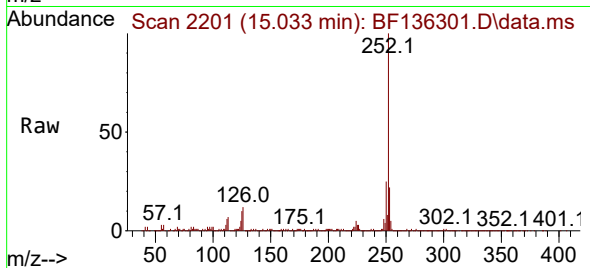
125 10.4 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#89

Benzo(k)fluoranthene

Concen: 8.905 ng m

RT: 15.057 min Scan# 2205

Delta R.T. -0.011 min

Lab File: BF136301.D

Acq: 30 Nov 2023 00:34

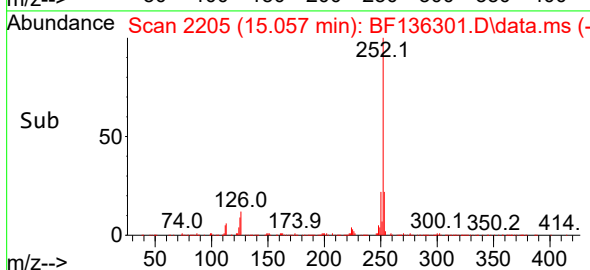
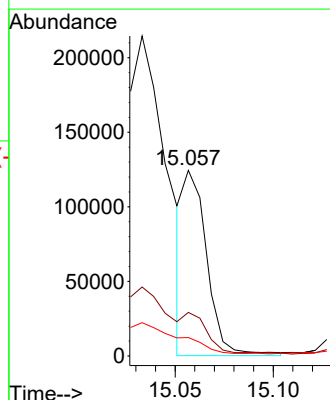
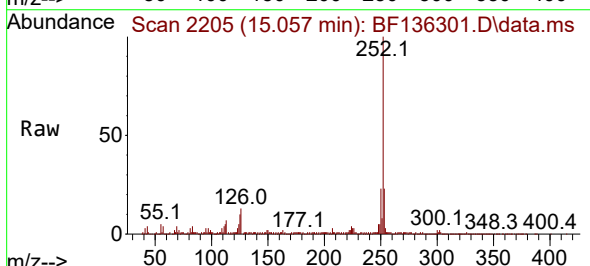
Tgt Ion:252 Resp: 103752

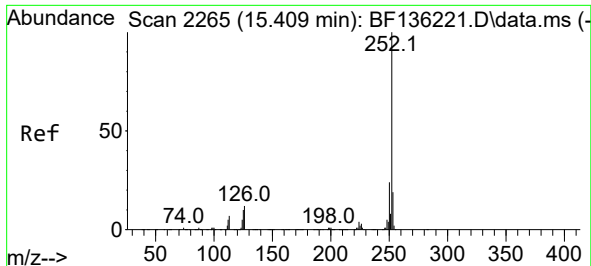
Ion Ratio Lower Upper

252 100

253 23.5 15.6 23.4

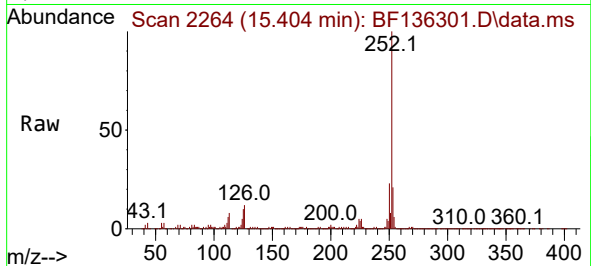
125 9.9 7.0 10.4





#90
Benzo(a)pyrene
Concen: 20.571 ng
RT: 15.404 min Scan# 21
Delta R.T. -0.005 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

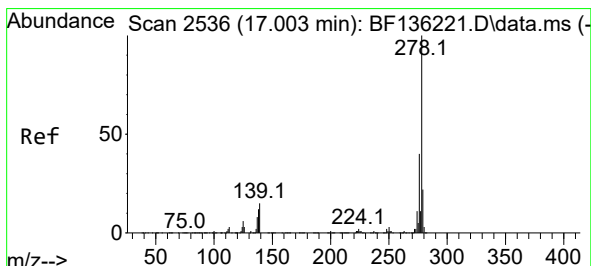
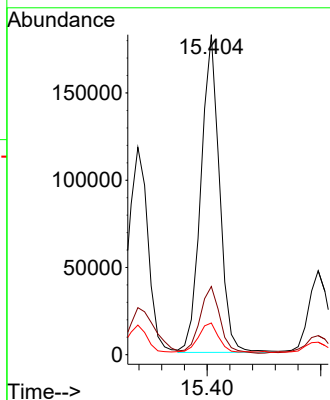
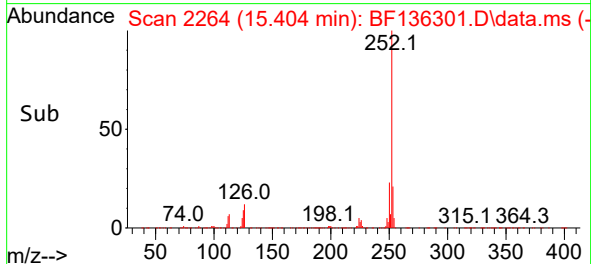
Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)



Tgt Ion:252 Resp: 206290
Ion Ratio Lower Upper
252 100
253 21.3 15.5 23.3
125 9.9 7.9 11.9

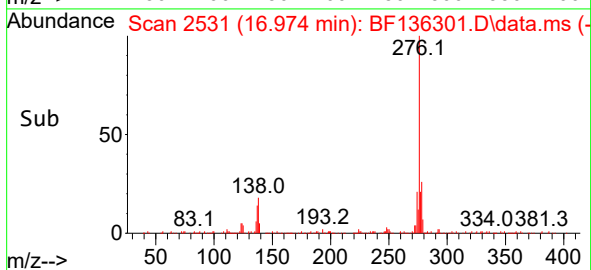
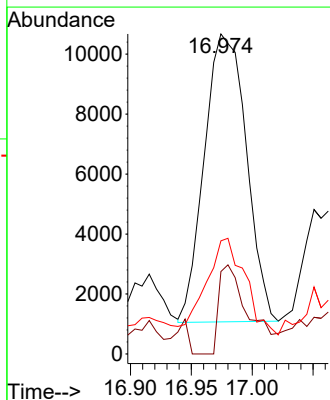
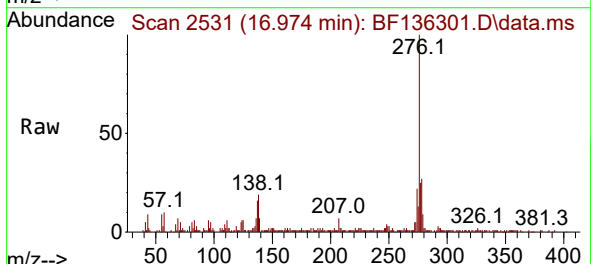
Manual Integrations
APPROVED

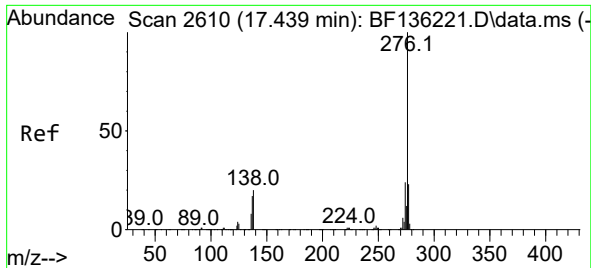
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#91
Dibenzo(a,h)anthracene
Concen: 4.783 ng
RT: 16.974 min Scan# 2531
Delta R.T. -0.029 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

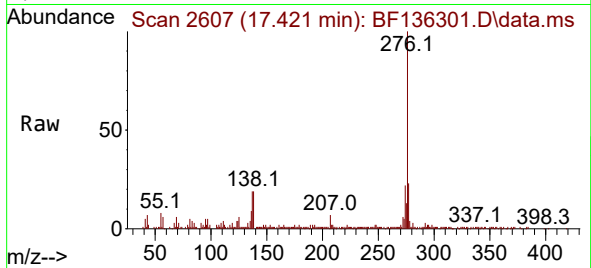
Tgt Ion:278 Resp: 23013
Ion Ratio Lower Upper
278 100
139 25.7 11.7 17.5#
279 35.4 17.8 26.8#





#92
Benzo(g,h,i)perylene
Concen: 10.354 ng
RT: 17.421 min Scan# 20
Delta R.T. -0.018 min
Lab File: BF136301.D
Acq: 30 Nov 2023 00:34

Instrument :
BNA_F
ClientSampleId :
P-4(170FT)(5-10)



Tgt Ion:276 Resp: 9265
Ion Ratio Lower Upper
276 100
277 23.5 18.6 27.8
138 19.1 15.8 23.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

