

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120623\
 Data File : BF136437.D
 Acq On : 06 Dec 2023 19:52
 Operator : CG\JU
 Sample : 05446-03
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 JC-03-111523B

Quant Time: Dec 07 00:55:15 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 06 09:40:27 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/07/2023
 Supervised By :mohammad ahmed 12/07/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	65656	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	209667	20.000	ng	0.00
39) Acenaphthene-d10	9.833	164	102176	20.000	ng	0.00
64) Phenanthrene-d10	11.321	188	214099	20.000	ng	0.00
76) Chrysene-d12	13.974	240	151548	20.000	ng	# 0.00
86) Perylene-d12	15.456	264	125511	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	360339	81.052	ng	0.00
7) Phenol-d6	6.434	99	394971	71.208	ng	-0.01
23) Nitrobenzene-d5	7.357	82	220973	56.975	ng	-0.01
42) 2,4,6-Tribromophenol	10.621	330	97725	77.569	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	372606	49.759	ng	-0.01
79) Terphenyl-d14	12.921	244	537121	46.715	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.098	128	262845	22.733	ng	98
37) 2-Methylnaphthalene	8.786	142	127154	17.286	ng	95
38) 1-Methylnaphthalene	8.886	142	63238	8.761	ng	94
49) Acenaphthylene	9.692	152	30384	3.152	ng	# 94
52) Acenaphthene	9.863	154	24174	3.913	ng	95
55) Dibenzofuran	10.033	168	18549	2.056	ng	# 72
58) Fluorene	10.380	166	24714	3.412	ng	# 93
70) Pentachlorophenol	11.127	266	21658	13.338	ng	97
71) Phenanthrene	11.345	178	181978	15.464	ng	98
72) Anthracene	11.398	178	57803	4.877	ng	99
75) Fluoranthene	12.539	202	320082	25.955	ng	96
78) Pyrene	12.774	202	338958	22.838	ng	97
81) Benzo(a)anthracene	13.968	228	158462	15.011	ng	94
83) Chrysene	14.004	228	155460m	14.968	ng	
87) Indeno(1,2,3-cd)pyrene	16.956	276	59015	6.768	ng	95
88) Benzo(b)fluoranthene	15.021	252	150093m	17.490	ng	
89) Benzo(k)fluoranthene	15.051	252	54142m	6.695	ng	
90) Benzo(a)pyrene	15.392	252	105953	14.950	ng	96
91) Dibenzo(a,h)anthracene	16.974	278	16955	2.374	ng	# 78
92) Benzo(g,h,i)perylene	17.415	276	58007	7.912	ng	94

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

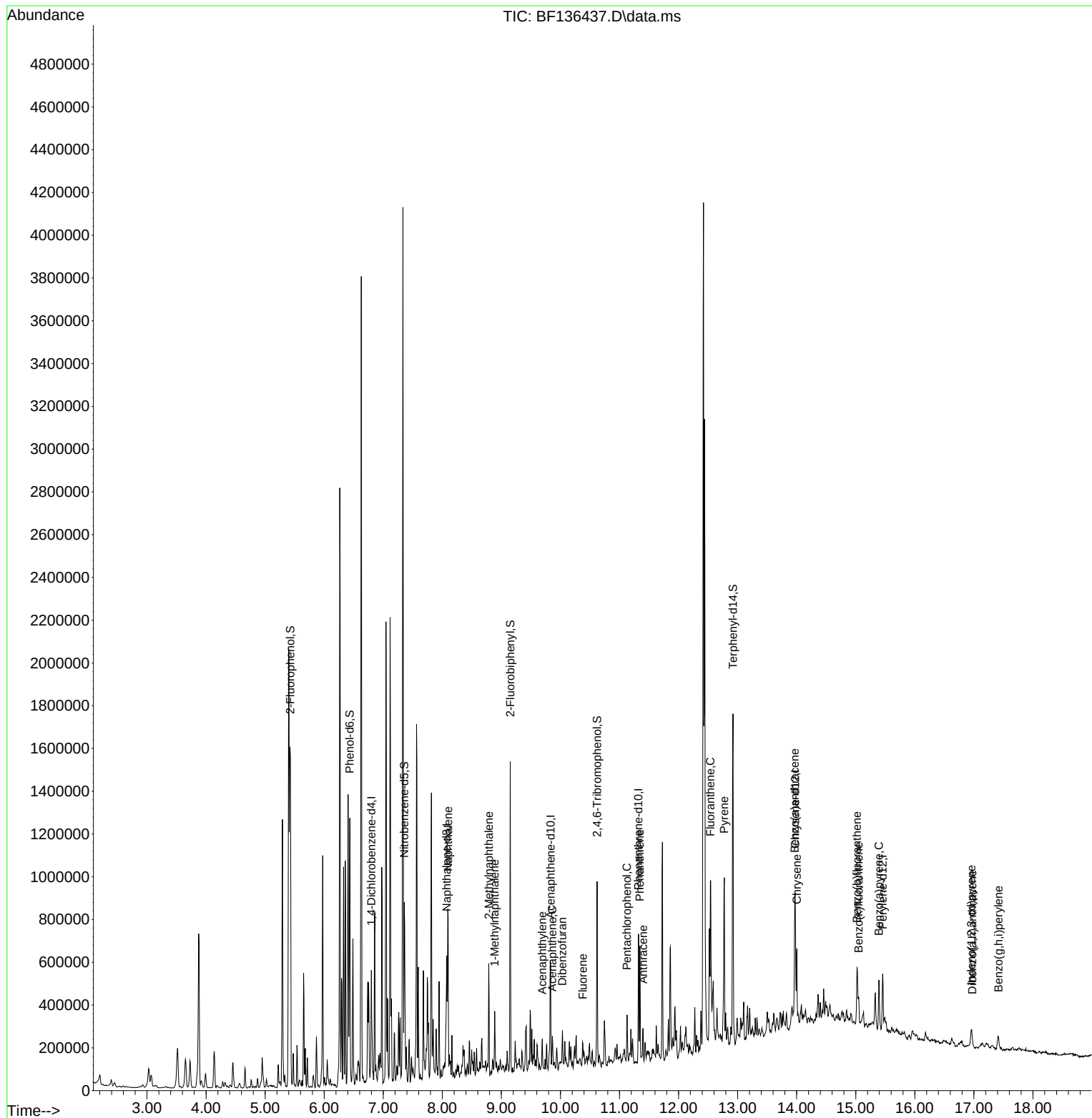
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120623\
Data File : BF136437.D
Acq On : 06 Dec 2023 19:52
Operator : CG\JU
Sample : 05446-03
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ALS Vial : 20 Sample Multiplier: 1

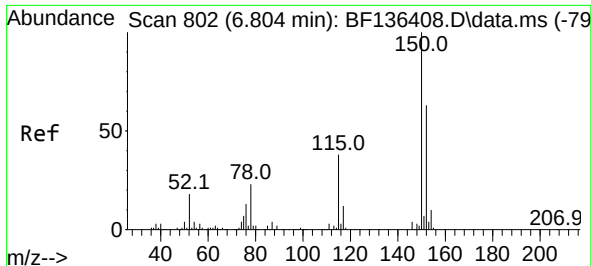
Instrument :
BNA_F
ClientSampleId :
JC-03-111523B

Quant Time: Dec 07 00:55:15 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 06 09:40:27 2023
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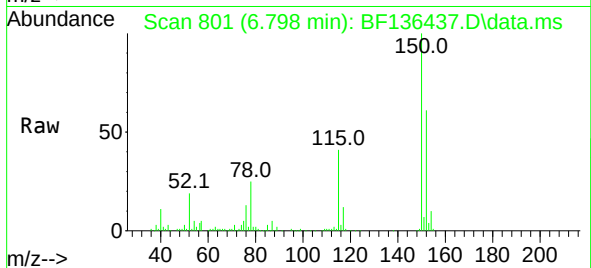
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 802
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

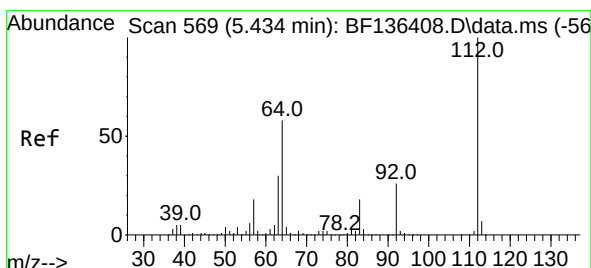
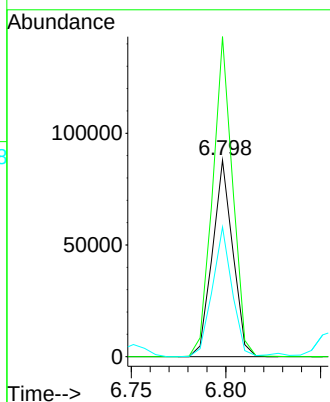
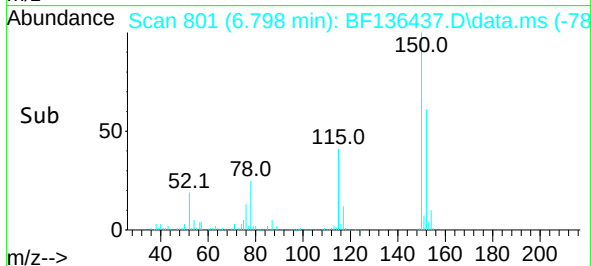
Instrument :
BNA_F
ClientSampleId :
JC-03-111523B



Tgt Ion:152 Resp: 65650
Ion Ratio Lower Upper
152 100
150 162.9 126.4 189.6
115 66.0 48.2 72.4

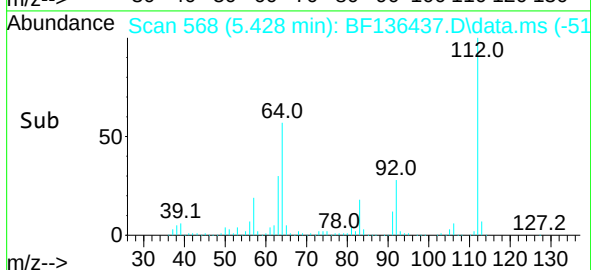
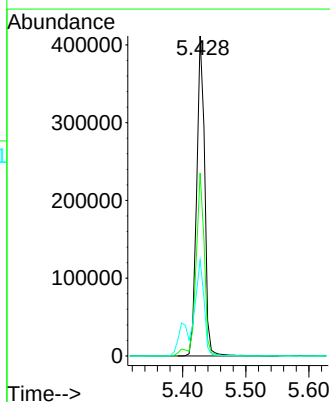
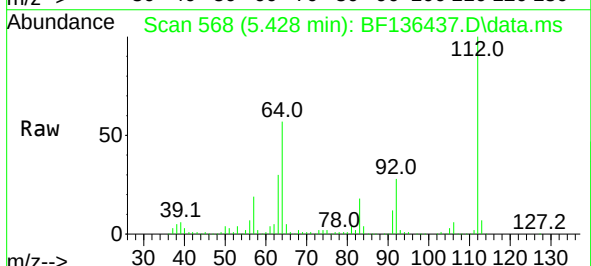
Manual Integrations
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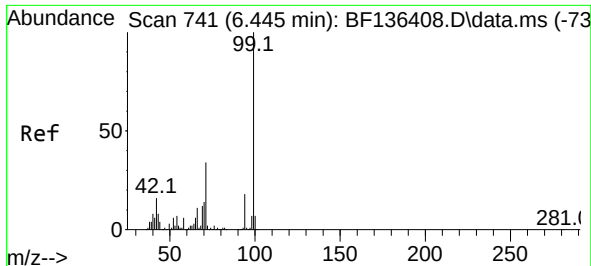
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023



#5
2-Fluorophenol
Concen: 81.052 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

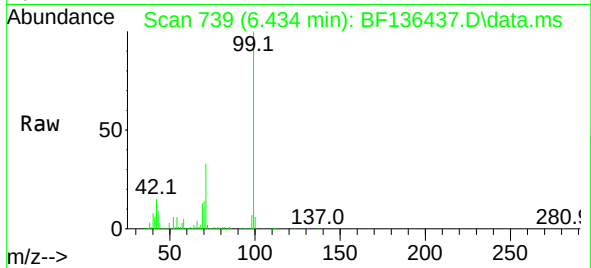
Tgt Ion:112 Resp: 360339
Ion Ratio Lower Upper
112 100
64 57.2 46.5 69.7
63 30.1 23.9 35.9





#7
Phenol-d6
Concen: 71.208 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

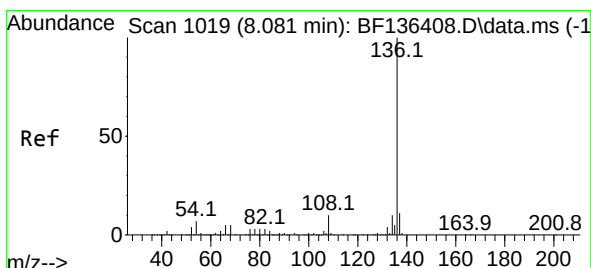
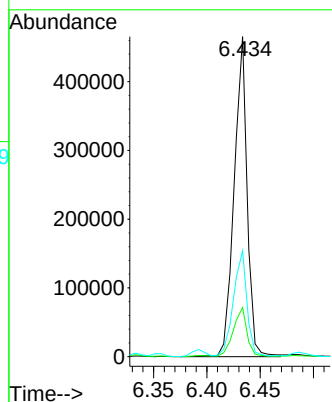
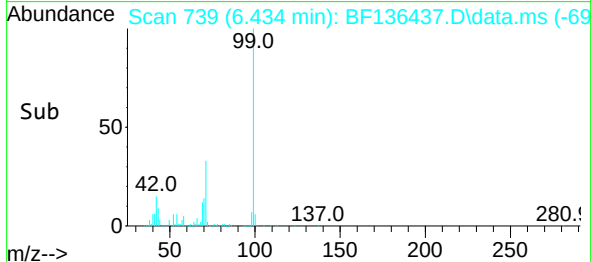
Instrument :
BNA_F
ClientSampleId :
JC-03-111523B



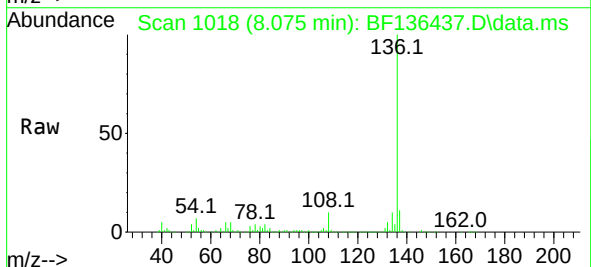
Tgt Ion: 99 Resp: 39497
Ion Ratio Lower Upper
99 100
42 15.3 12.8 19.2
71 33.1 27.0 40.4

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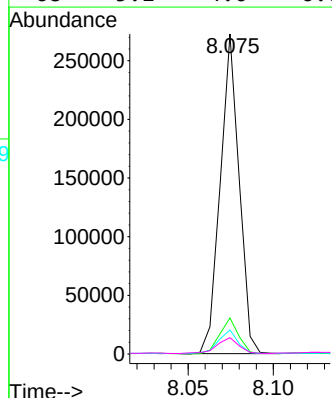
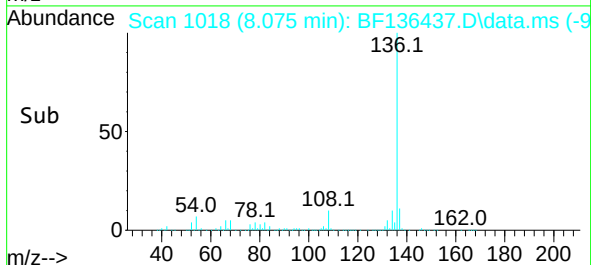
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023

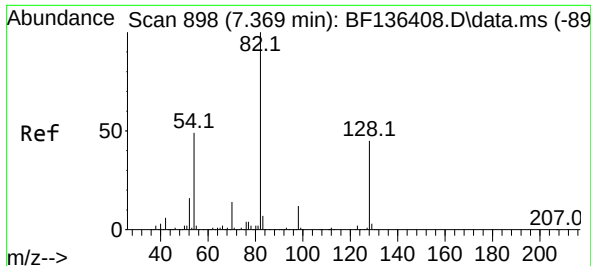


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52



Tgt Ion:136 Resp: 209667
Ion Ratio Lower Upper
136 100
137 11.2 8.6 12.8
54 7.5 5.7 8.5
68 5.1 4.0 6.0





#23

Nitrobenzene-d5

Concen: 56.975 ng

RT: 7.357 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF136437.D

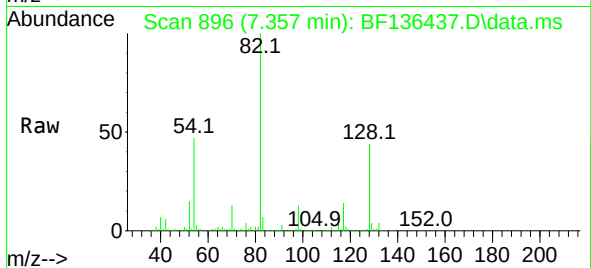
Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

JC-03-111523B



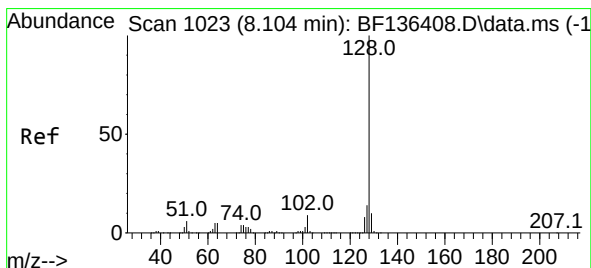
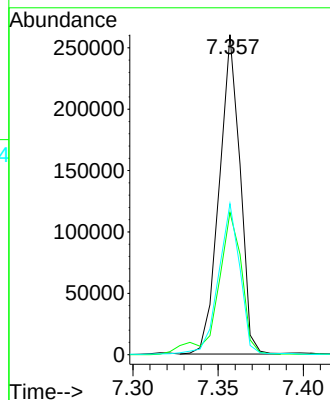
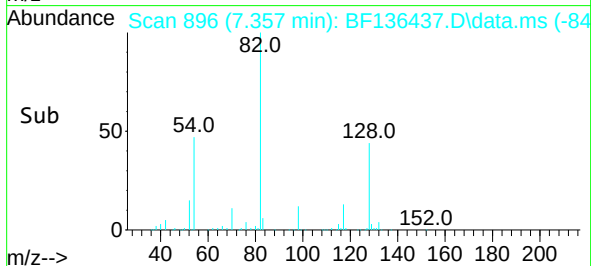
Tgt Ion:	82	Resp:	22097
Ion Ratio	Lower	Upper	
82	100		
128	44.5	36.3	54.5
54	47.2	39.0	58.6

Manual Integrations

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Reviewed By :Yogesh Patel 12/07/2023

Supervised By :mohammad ahmed 12/07/2023



#31

Naphthalene

Concen: 22.733 ng

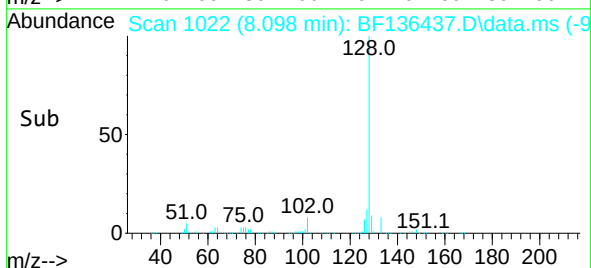
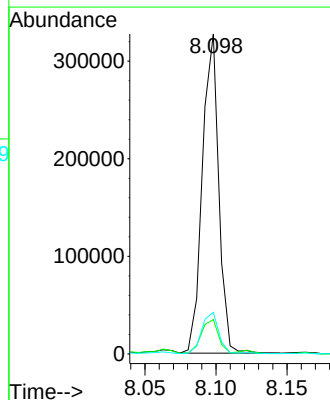
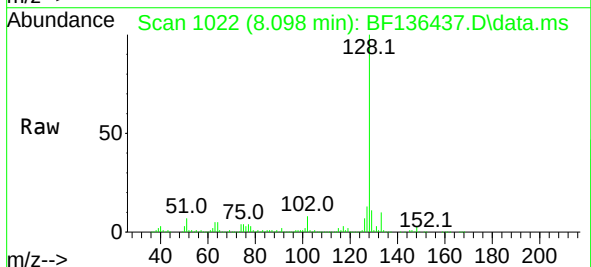
RT: 8.098 min Scan# 1022

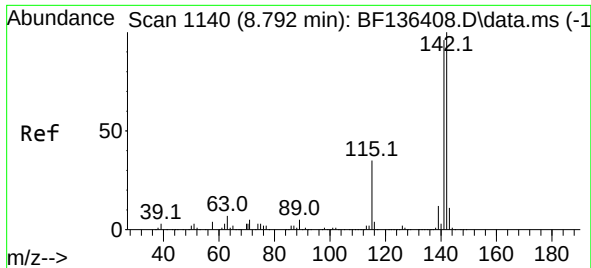
Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Tgt Ion:	128	Resp:	262845
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.3	12.5
127	13.0	11.1	16.7





#37
2-Methylnaphthalene
Concen: 17.286 ng
RT: 8.786 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

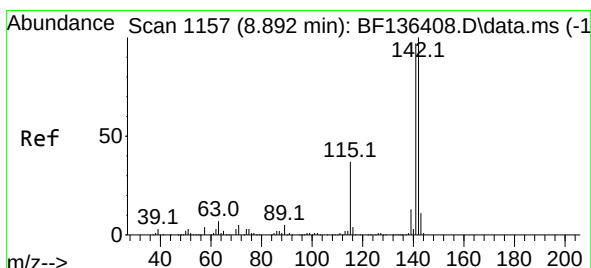
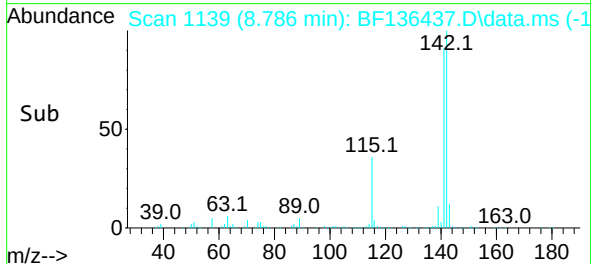
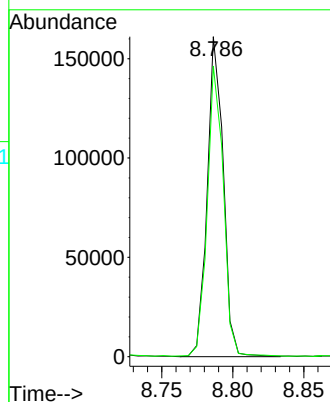
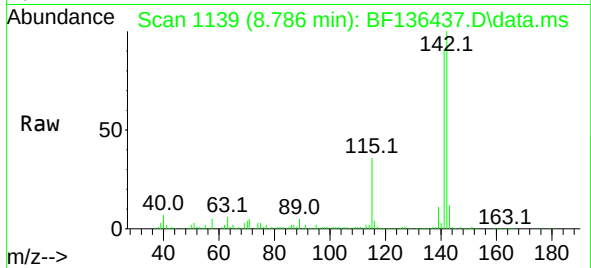
JC-03-111523B

Tgt Ion:142 Resp: 127154
Ion Ratio Lower Upper
142 100
141 90.9 76.4 114.6

Manual Integrations

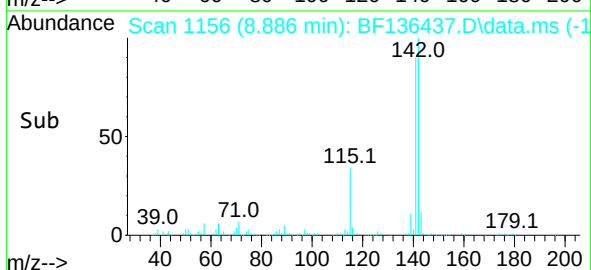
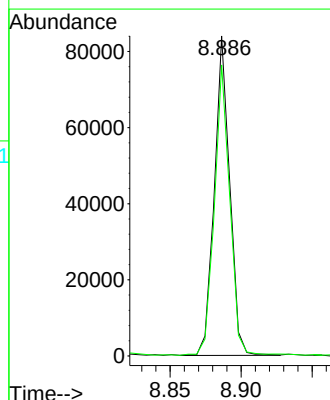
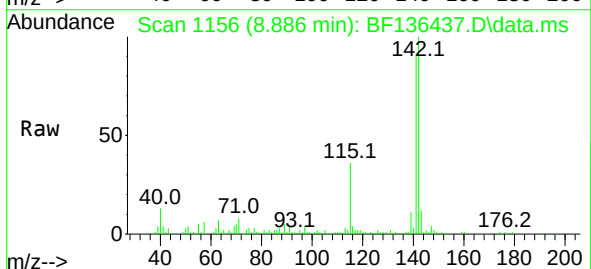
APPROVED

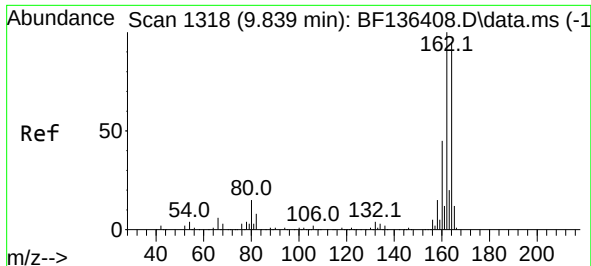
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023



#38
1-Methylnaphthalene
Concen: 8.761 ng
RT: 8.886 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

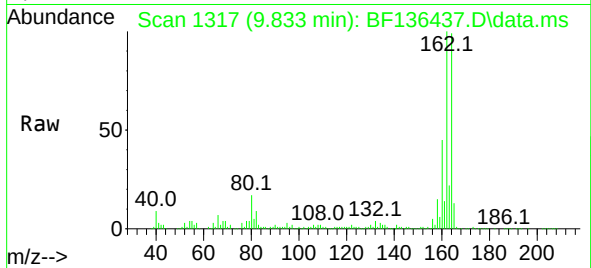
Tgt Ion:142 Resp: 63238
Ion Ratio Lower Upper
142 100
141 90.9 77.7 116.5





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

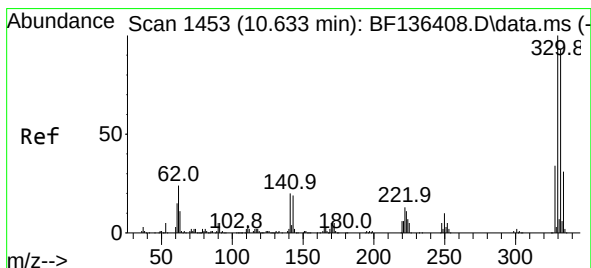
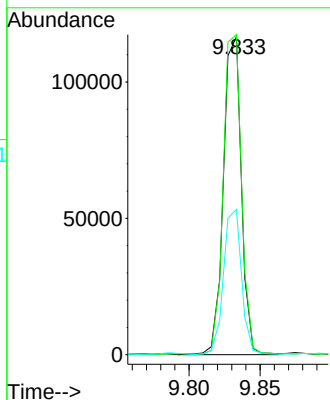
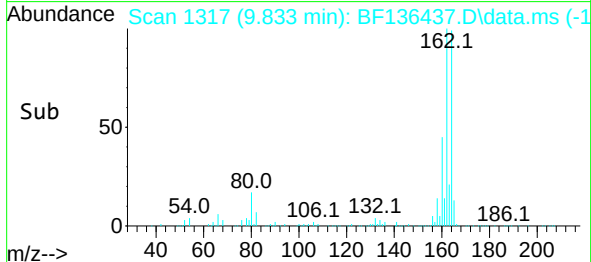
Instrument :
BNA_F
ClientSampleId :
JC-03-111523B



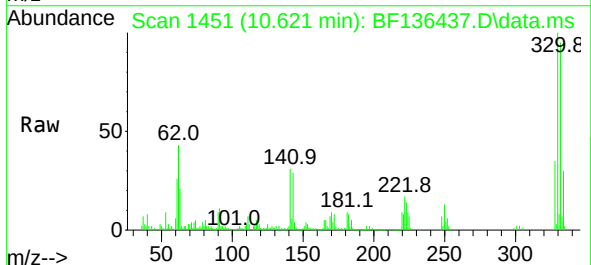
Tgt Ion:164 Resp: 102170
Ion Ratio Lower Upper
164 100
162 100.7 84.4 126.6
160 45.7 37.6 56.4

Manual Integrations
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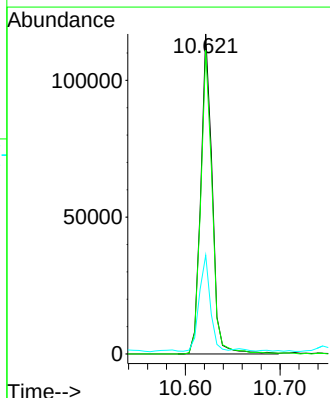
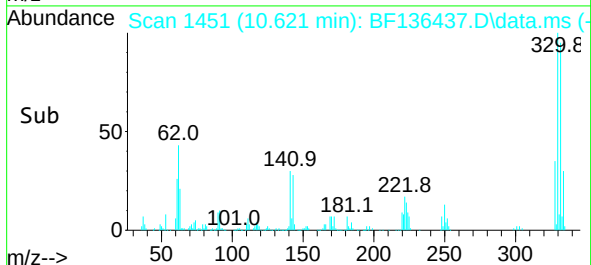
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023

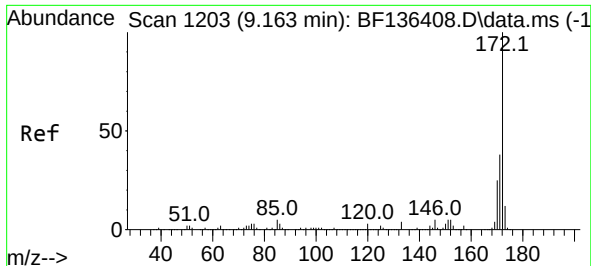


#42
2,4,6-Tribromophenol
Concen: 77.569 ng
RT: 10.621 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52



Tgt Ion:330 Resp: 97725
Ion Ratio Lower Upper
330 100
332 95.2 76.4 114.6
141 28.9 23.4 35.2





#45

2-Fluorobiphenyl

Concen: 49.759 ng

RT: 9.151 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

JC-03-111523B

Tgt Ion:172 Resp: 372600

Ion Ratio Lower Upper

172 100

171 36.0 30.5 45.7

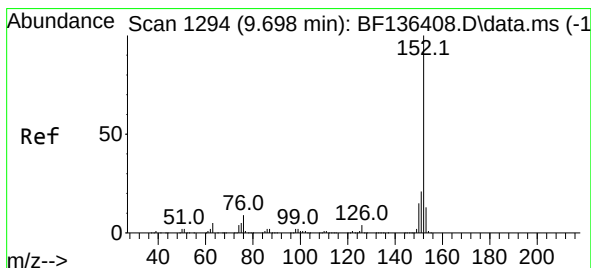
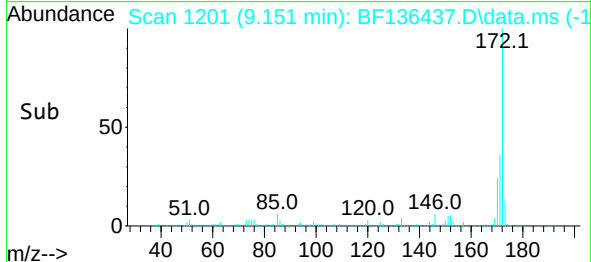
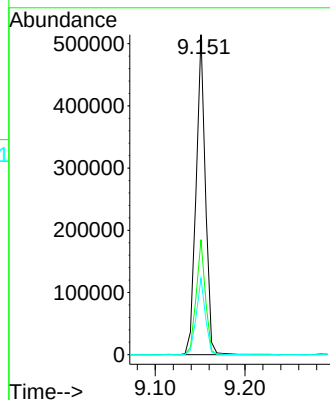
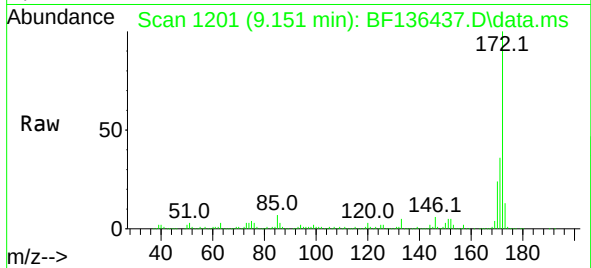
170 23.9 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2023

Supervised By :mohammad ahmed 12/07/2023



#49

Acenaphthylene

Concen: 3.152 ng

RT: 9.692 min Scan# 1293

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

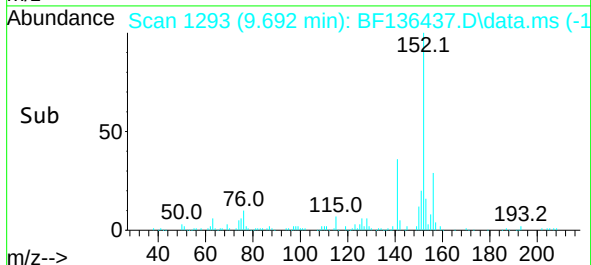
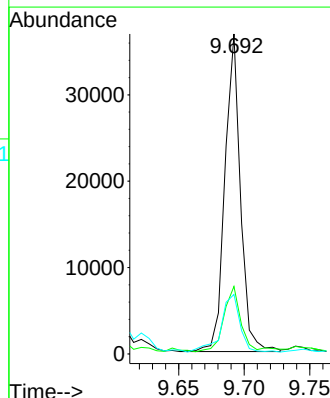
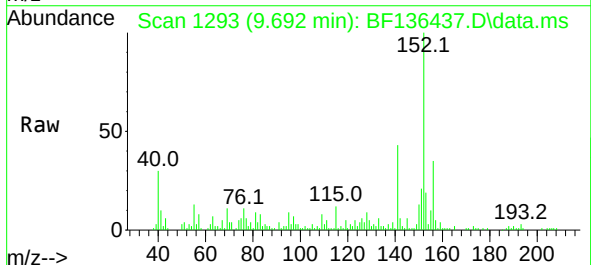
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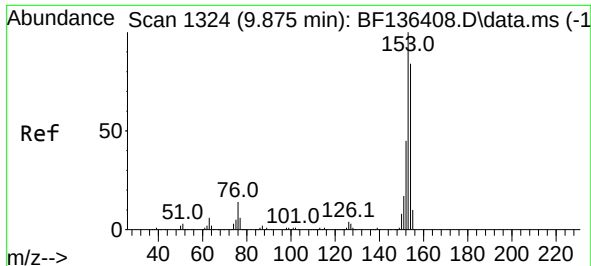
Ion Ratio Lower Upper

152 100

151 21.1 17.2 25.8

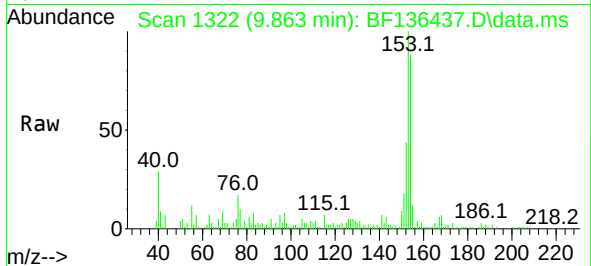
153 18.6 10.6 15.8#





#52
Acenaphthene
Concen: 3.913 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

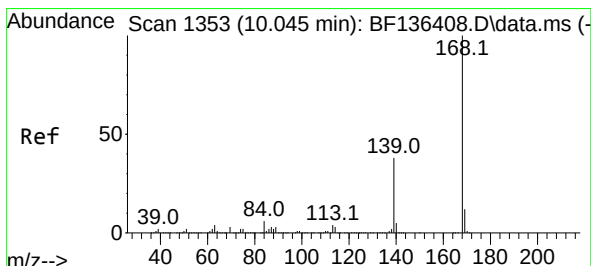
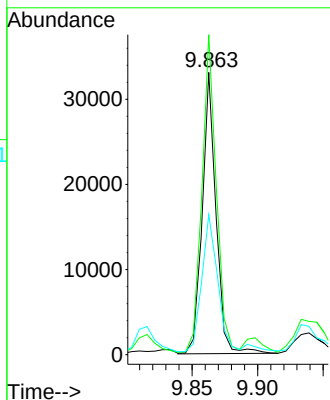
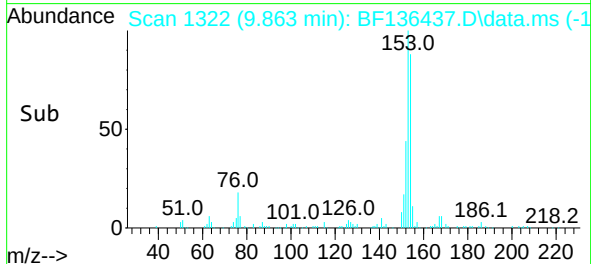
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JC-03-111523B



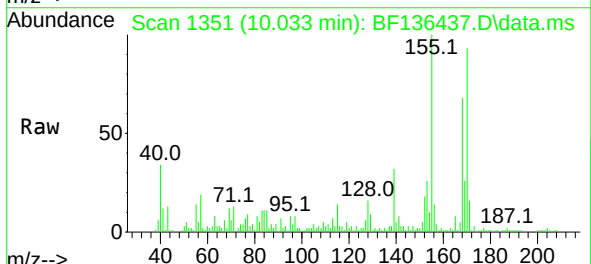
Tgt Ion:154 Resp: 24174
Ion Ratio Lower Upper
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153 113.4 95.3 142.9
152 49.6 43.2 64.8

Manual Integrations
APPROVED

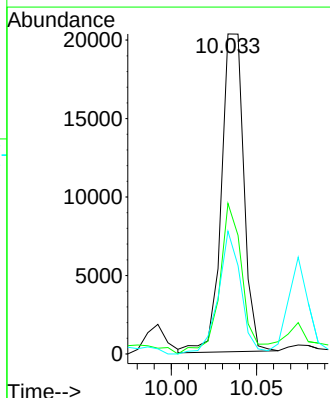
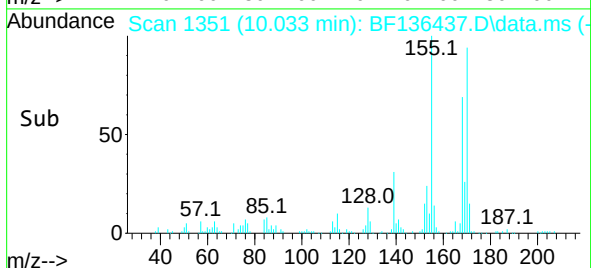
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023

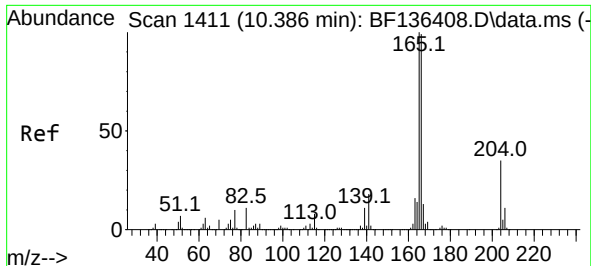


#55
Dibenzofuran
Concen: 2.056 ng
RT: 10.033 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52



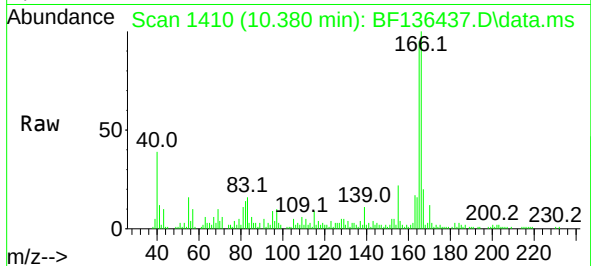
Tgt Ion:168 Resp: 18549
Ion Ratio Lower Upper
168 100
139 47.0 30.4 45.6#
169 38.4 9.9 14.9#





#58
Fluorene
Concen: 3.412 ng
RT: 10.380 min Scan# 1411
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

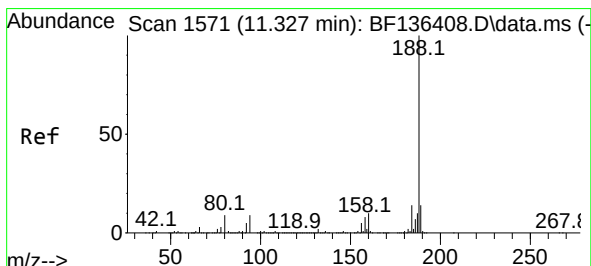
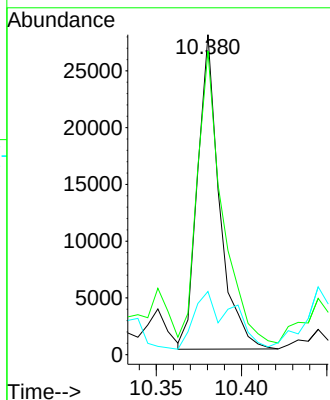
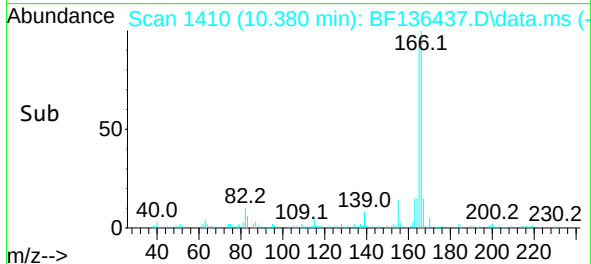
Instrument :
BNA_F
ClientSampleId :
JC-03-111523B



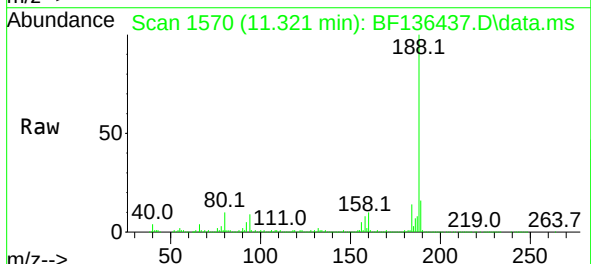
Tgt Ion:166 Resp: 24714
Ion Ratio Lower Upper
166 100
165 94.9 80.5 120.7
167 19.8 10.5 15.7

Manual Integrations
APPROVED

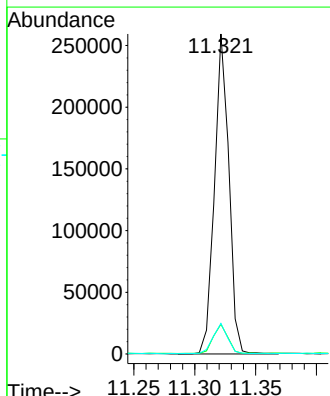
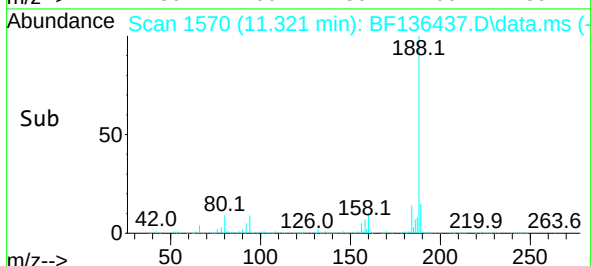
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023

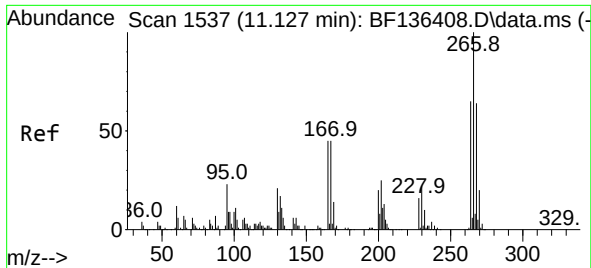


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.321 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52



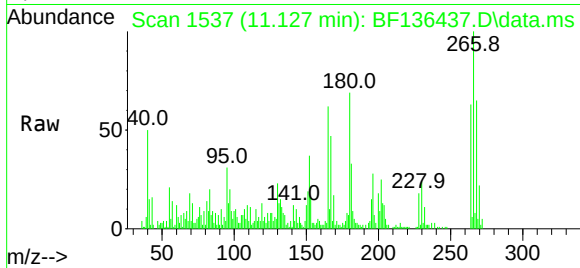
Tgt Ion:188 Resp: 214099
Ion Ratio Lower Upper
188 100
94 9.3 7.2 10.8
80 9.5 7.2 10.8





#70
Pentachlorophenol
Concen: 13.338 ng
RT: 11.127 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

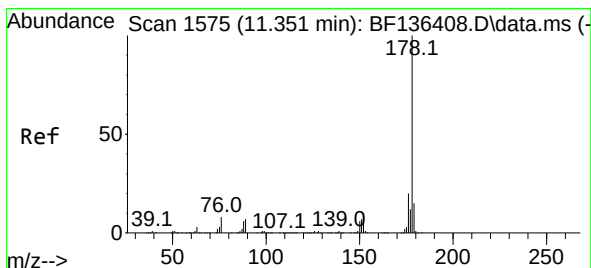
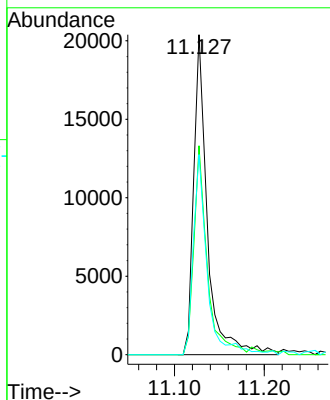
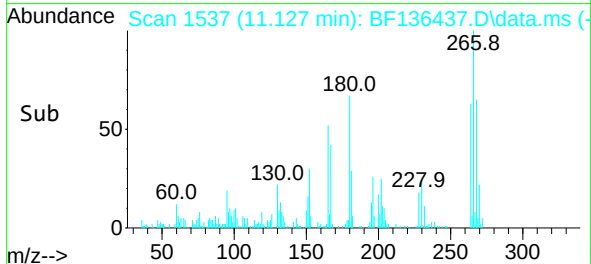
Instrument :
BNA_F
ClientSampleId :
JC-03-111523B



Tgt Ion:266 Resp: 21658
Ion Ratio Lower Upper
266 100
268 65.3 51.0 76.6
264 62.6 52.2 78.4

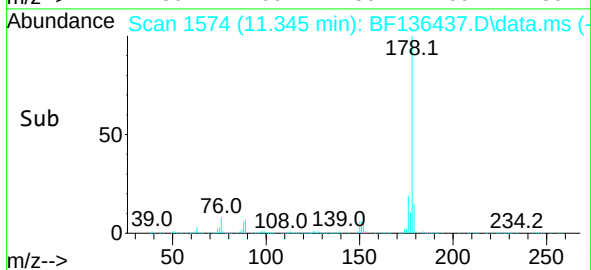
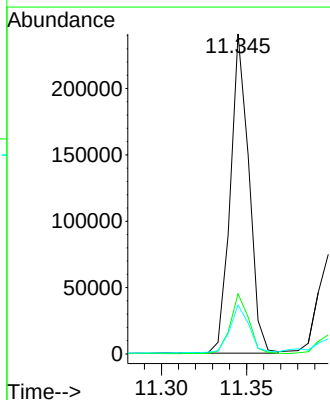
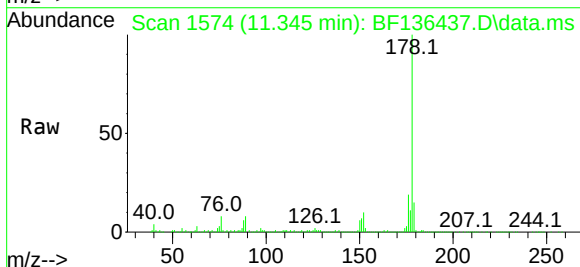
Manual Integrations
APPROVED

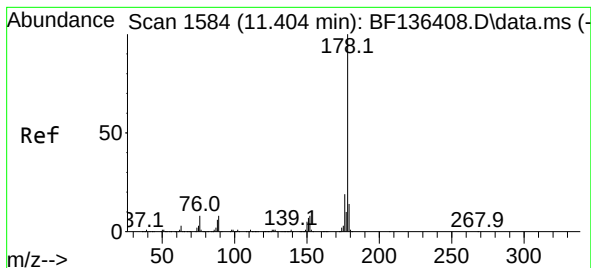
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023



#71
Phenanthrene
Concen: 15.464 ng
RT: 11.345 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Tgt Ion:178 Resp: 181978
Ion Ratio Lower Upper
178 100
176 18.8 15.9 23.9
179 15.3 11.8 17.6





#72

Anthracene

Concen: 4.877 ng

RT: 11.398 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

JC-03-111523B

Tgt Ion:178 Resp: 5780

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

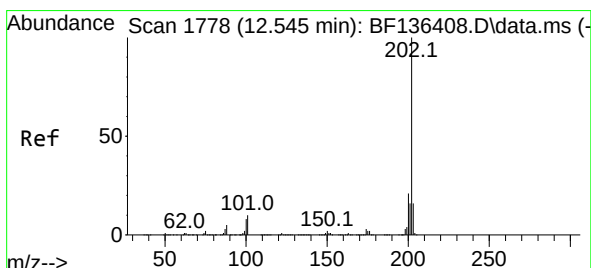
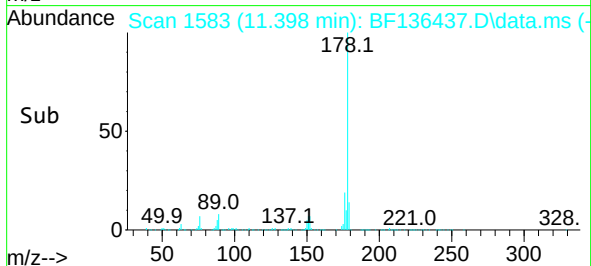
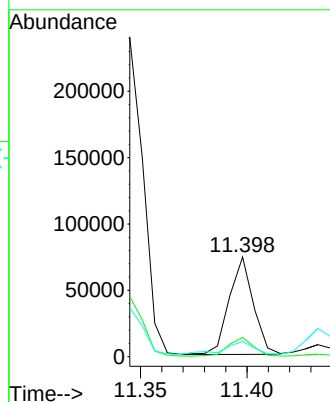
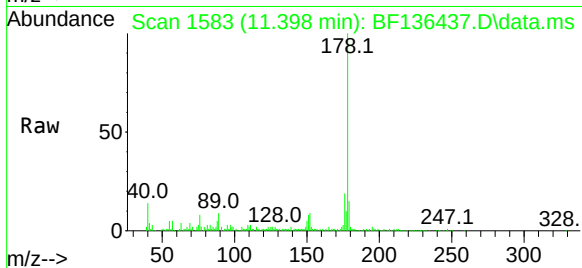
179 15.2 11.4 17.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2023

Supervised By :mohammad ahmed 12/07/2023



#75

Fluoranthene

Concen: 25.955 ng

RT: 12.539 min Scan# 1777

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

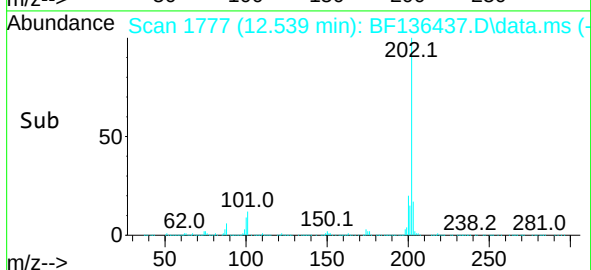
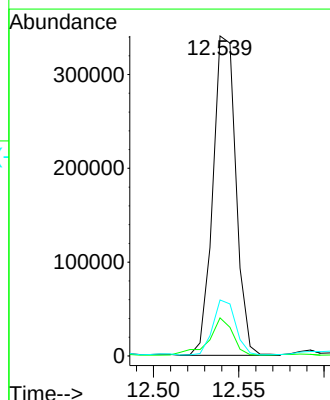
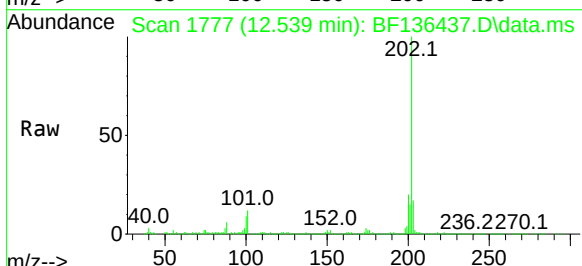
Tgt Ion:202 Resp: 320082

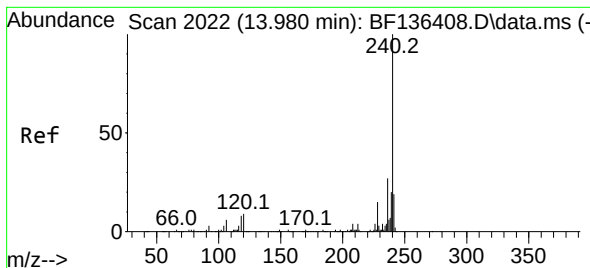
Ion Ratio Lower Upper

202 100

101 11.9 0.0 29.9

203 17.5 0.0 36.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.974 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

JC-03-111523B

Tgt Ion:240 Resp: 151548

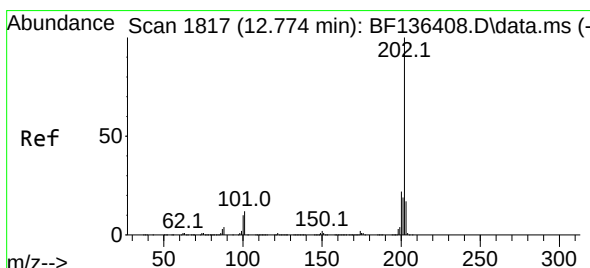
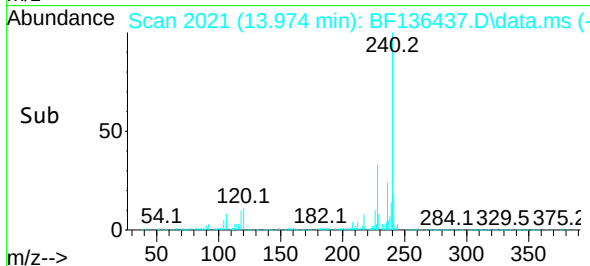
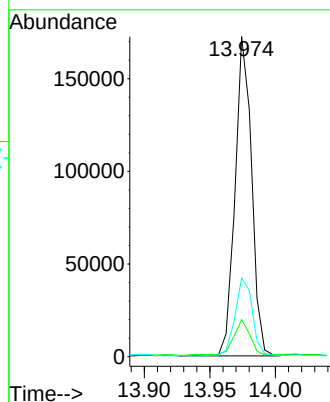
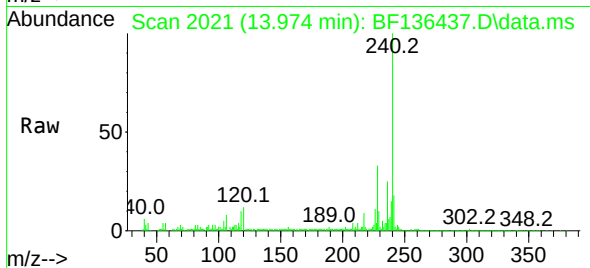
Ion	Ratio	Lower	Upper
240	100		
120	11.6	7.3	10.9
236	24.7	21.3	31.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2023

Supervised By :mohammad ahmed 12/07/2023



#78

Pyrene

Concen: 22.838 ng

RT: 12.774 min Scan# 1817

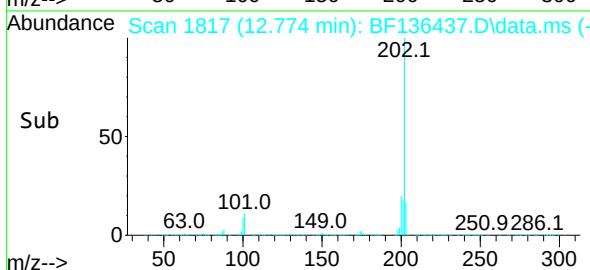
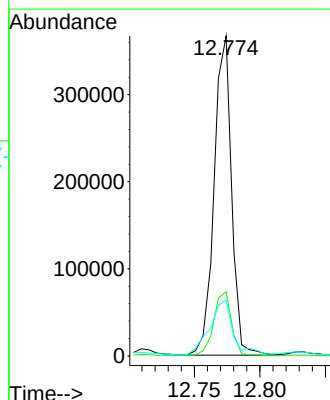
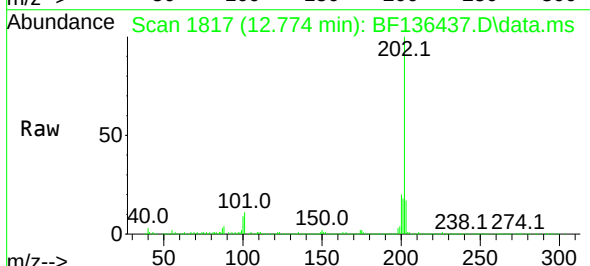
Delta R.T. -0.000 min

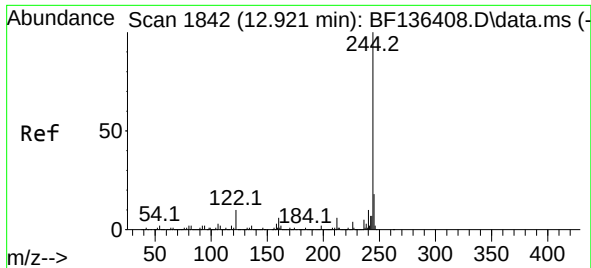
Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Tgt Ion:202 Resp: 338958

Ion	Ratio	Lower	Upper
202	100		
200	20.0	18.0	27.0
203	17.5	13.5	20.3





#79
 Terphenyl-d14
 Concen: 46.715 ng
 RT: 12.921 min Scan# 1842
 Delta R.T. -0.000 min
 Lab File: BF136437.D
 Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

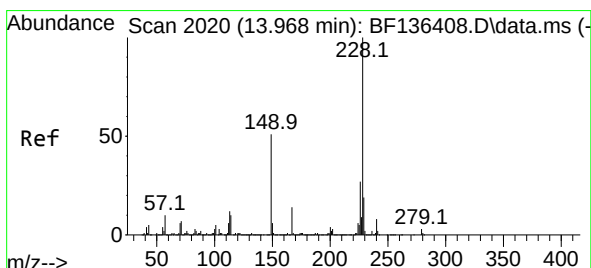
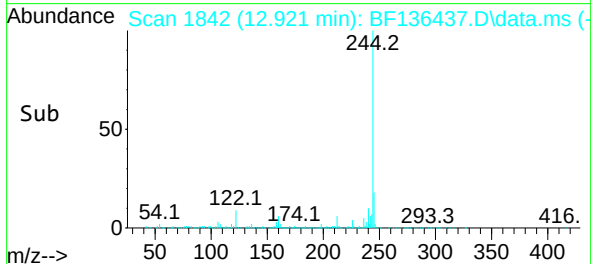
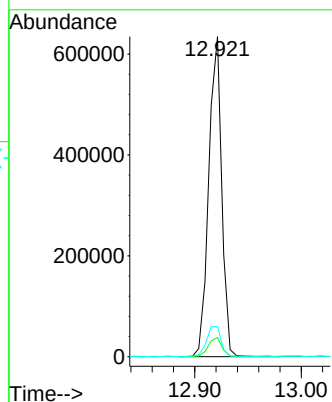
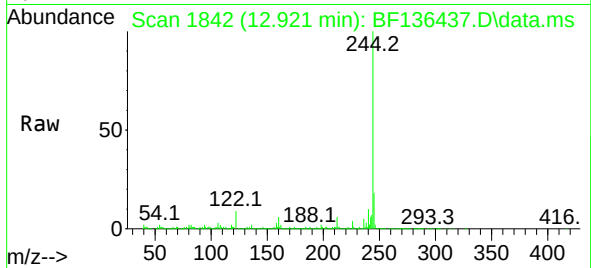
JC-03-111523B

Tgt Ion:244 Resp: 53712
 Ion Ratio Lower Upper
 244 100
 212 6.0 5.0 7.4
 122 9.4 8.3 12.5

Manual Integrations

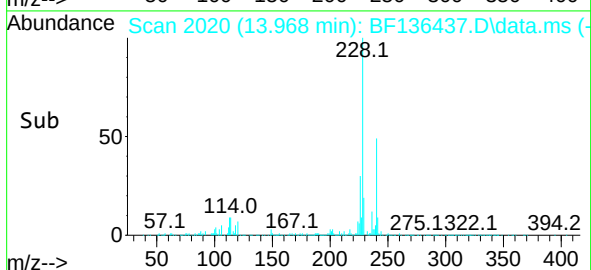
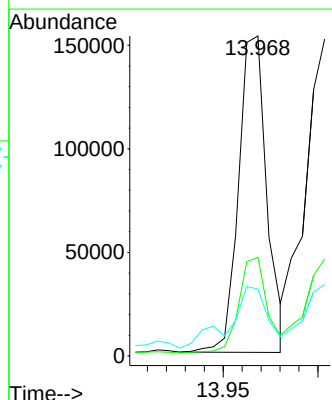
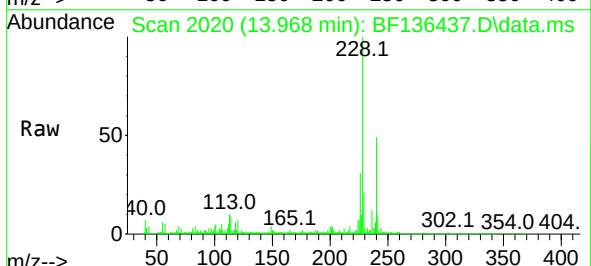
APPROVED

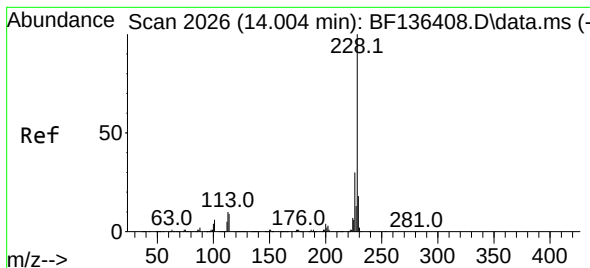
Reviewed By :Yogesh Patel 12/07/2023
 Supervised By :mohammad ahmed 12/07/2023



#81
 Benzo(a)anthracene
 Concen: 15.011 ng
 RT: 13.968 min Scan# 2020
 Delta R.T. -0.000 min
 Lab File: BF136437.D
 Acq: 06 Dec 2023 19:52

Tgt Ion:228 Resp: 158462
 Ion Ratio Lower Upper
 228 100
 226 30.8 21.8 32.8
 229 20.9 15.0 22.4





#83

Chrysene

Concen: 14.968 ng m

RT: 14.004 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

JC-03-111523B

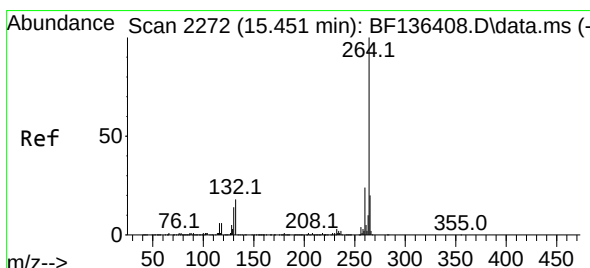
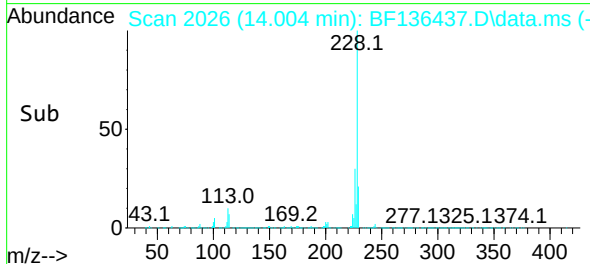
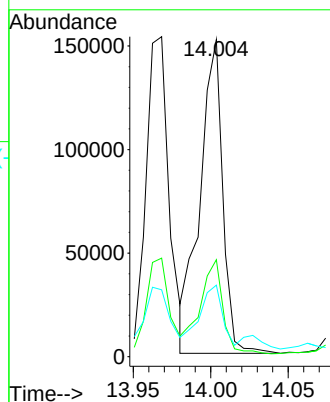
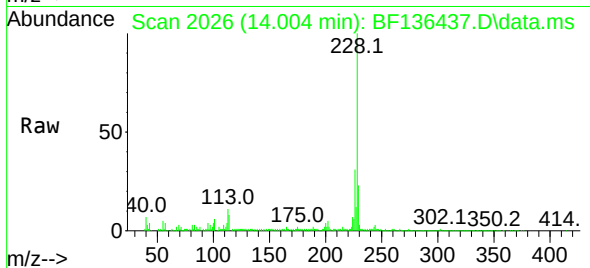
Tgt Ion:228	Resp: 155460
Ion Ratio	Lower Upper
228 100	
226 30.6	23.8 35.6
229 22.6	14.8 22.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2023

Supervised By :mohammad ahmed 12/07/2023



#86

Perylene-d12

Concen: 20.000 ng

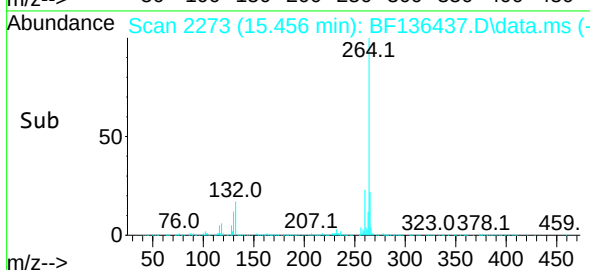
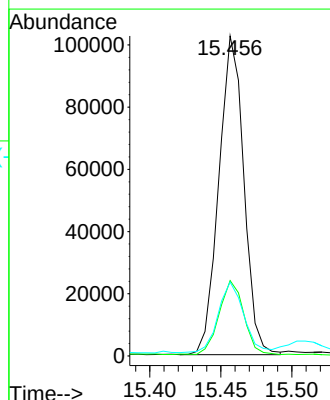
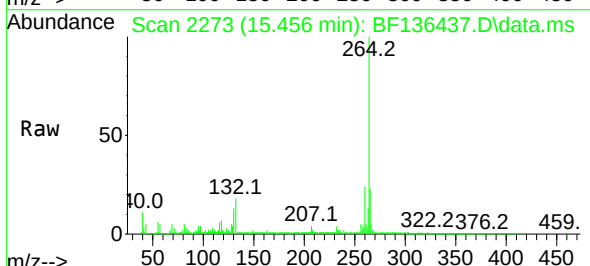
RT: 15.456 min Scan# 2273

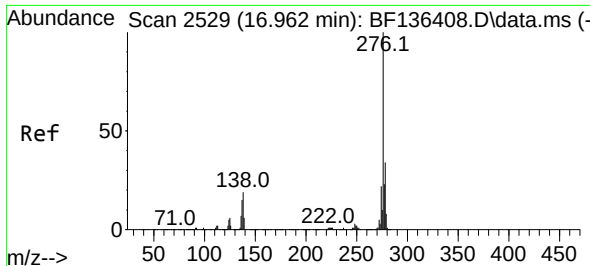
Delta R.T. 0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

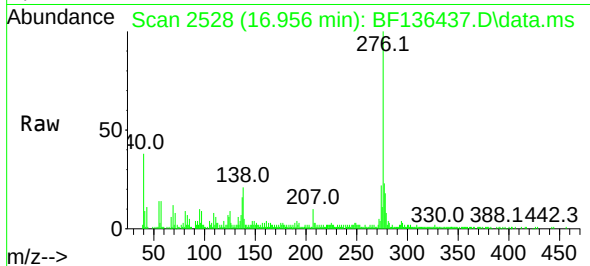
Tgt Ion:264	Resp: 125511
Ion Ratio	Lower Upper
264 100	
260 23.6	19.2 28.8
265 23.1	15.9 23.9





#87
Indeno(1,2,3-cd)pyrene
Concen: 6.768 ng
RT: 16.956 min Scan# 2199
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

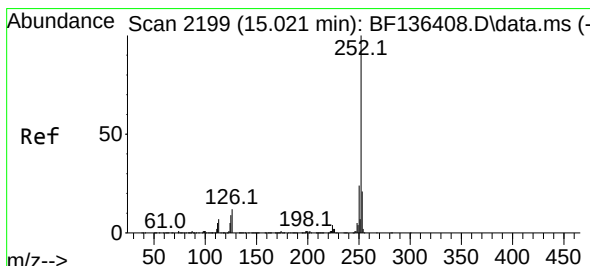
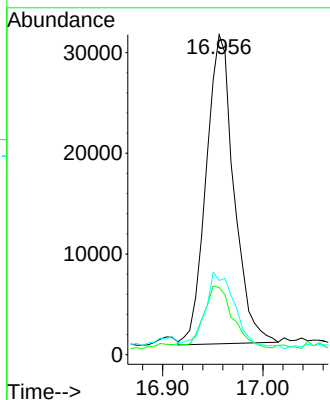
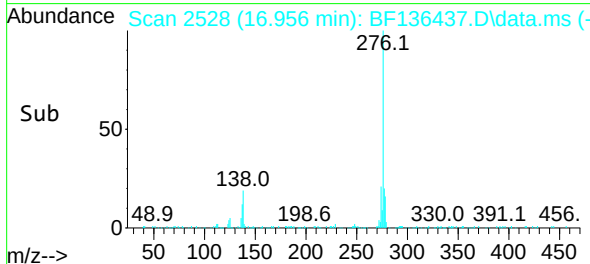
Instrument :
BNA_F
ClientSampleId :
JC-03-111523B



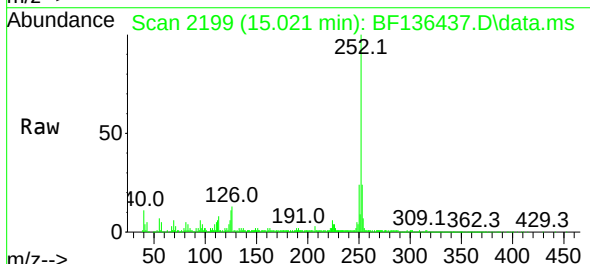
Tgt Ion:276 Resp: 5901
Ion Ratio Lower Upper
276 100
138 21.0 19.0 28.4
277 26.9 20.0 30.0

Manual Integrations
APPROVED

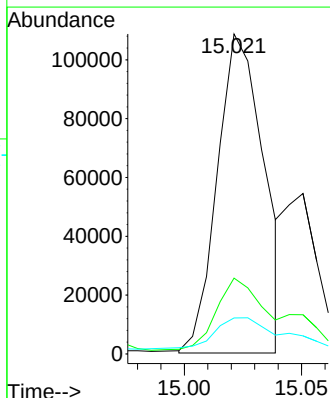
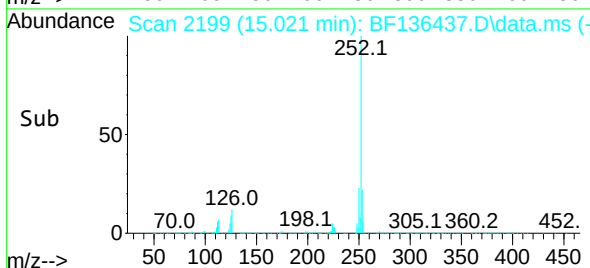
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023

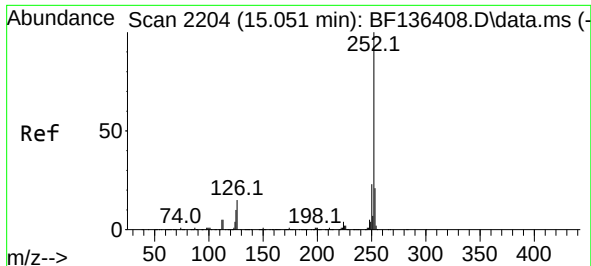


#88
Benzo(b)fluoranthene
Concen: 17.490 ng m
RT: 15.021 min Scan# 2199
Delta R.T. -0.000 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52



Tgt Ion:252 Resp: 150093
Ion Ratio Lower Upper
252 100
253 23.7 16.9 25.3
125 11.2 7.4 11.2#





#89

Benzo(k)fluoranthene

Concen: 6.695 ng m

RT: 15.051 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

JC-03-111523B

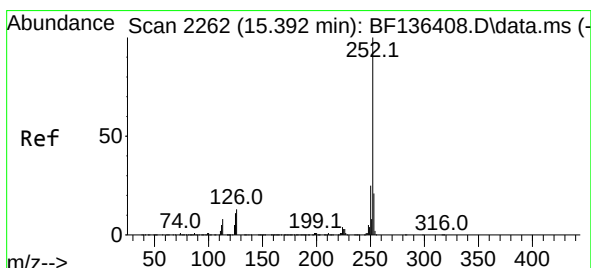
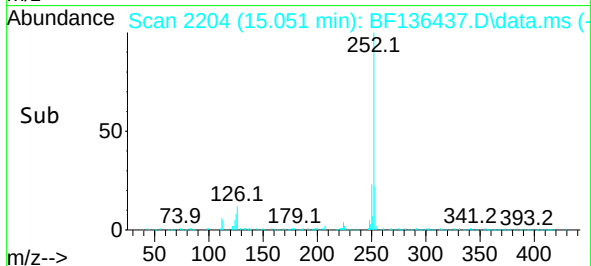
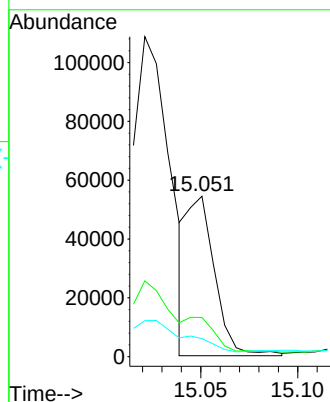
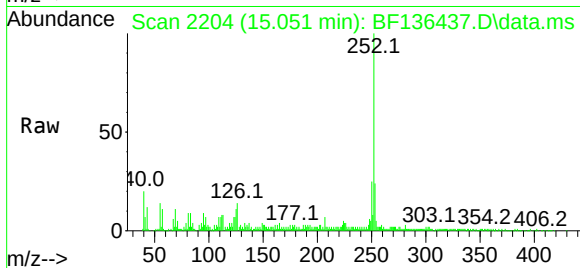
Tgt Ion:252 Resp: 5414
 Ion Ratio Lower Upper
 252 100
 253 24.4 16.9 25.3
 125 11.2 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2023

Supervised By :mohammad ahmed 12/07/2023



#90

Benzo(a)pyrene

Concen: 14.950 ng

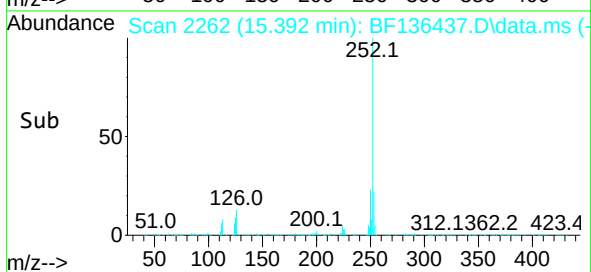
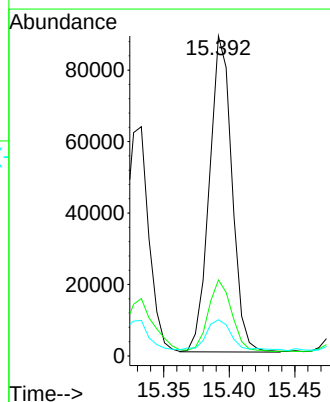
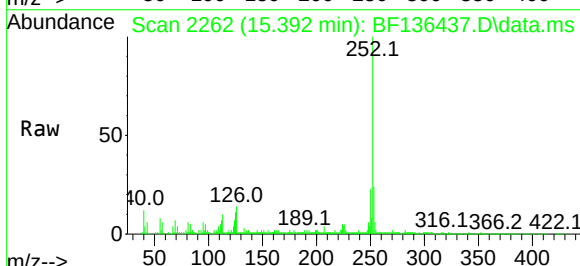
RT: 15.392 min Scan# 2262

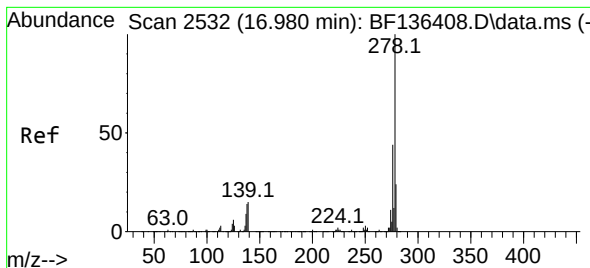
Delta R.T. -0.000 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Tgt Ion:252 Resp: 105953
 Ion Ratio Lower Upper
 252 100
 253 23.8 17.0 25.4
 125 11.3 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 2.374 ng

RT: 16.974 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

JC-03-111523B

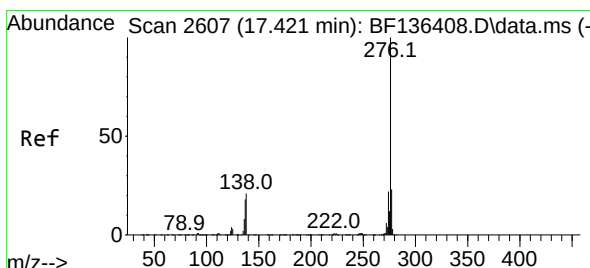
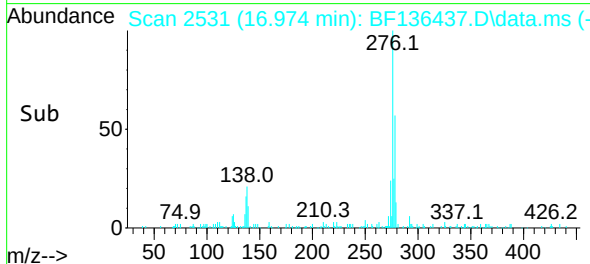
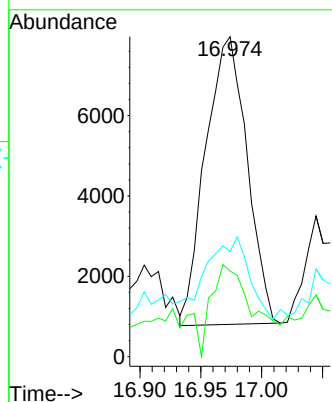
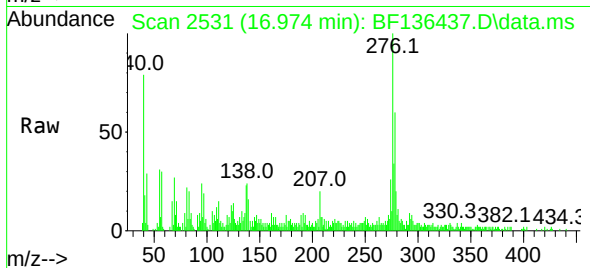
Tgt Ion:	278	Resp:	1695
Ion Ratio	Lower	Upper	
278	100		
139	26.7	12.2	18.4
279	32.9	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2023

Supervised By :mohammad ahmed 12/07/2023



#92

Benzo(g,h,i)perylene

Concen: 7.912 ng

RT: 17.415 min Scan# 2606

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Tgt Ion:	276	Resp:	58007
Ion Ratio	Lower	Upper	
276	100		
277	25.6	18.7	28.1
138	24.2	16.6	25.0

