

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
 Data File : BF136302.D
 Acq On : 30 Nov 2023 01:06
 Operator : CG\JU
 Sample : 05312-02 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-03

Manual Integrations
 APPROVED

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

Quant Time: Nov 30 01:26:54 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	97176	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	343254	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	146696	20.000	ng	0.00
64) Phenanthrene-d10	11.333	188	284793	20.000	ng	0.00
76) Chrysene-d12	13.986	240	230215	20.000	ng	0.00
86) Perylene-d12	15.468	264	178028	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	94088	13.476	ng	-0.01
7) Phenol-d6	6.428	99	114788	13.149	ng	-0.02
23) Nitrobenzene-d5	7.357	82	64130	9.873	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	14649	8.168	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	129831	11.305	ng	-0.01
79) Terphenyl-d14	12.927	244	170913	8.564	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.104	128	1122261	58.168	ng	99
37) 2-Methylnaphthalene	8.792	142	95862	7.921	ng	94
38) 1-Methylnaphthalene	8.892	142	53221	4.508	ng	88
46) 1,1'-Biphenyl	9.257	154	34084	2.635	ng	90
49) Acenaphthylene	9.698	152	135313	9.438	ng	97
52) Acenaphthene	9.869	154	18950	2.092	ng	91
55) Dibenzofuran	10.045	168	136538	10.128	ng	96
58) Fluorene	10.386	166	157347	14.879	ng	94
71) Phenanthrene	11.357	178	1049314	65.555	ng	99
72) Anthracene	11.404	178	237001	14.765	ng	96
73) Carbazole	11.563	167	71000	5.201	ng	98
75) Fluoranthene	12.557	202	1242834	76.485	ng	98
78) Pyrene	12.780	202	987204	39.155	ng	99
81) Benzo(a)anthracene	13.974	228	452004	26.434	ng	# 90
83) Chrysene	14.010	228	329715m	19.970	ng	
87) Indeno(1,2,3-cd)pyrene	16.968	276	114190	10.781	ng	98
88) Benzo(b)fluoranthene	15.033	252	346569m	27.747	ng	
89) Benzo(k)fluoranthene	15.063	252	135107m	11.389	ng	
90) Benzo(a)pyrene	15.404	252	235058	23.021	ng	95
91) Dibenzo(a,h)anthracene	16.986	278	30744m	5.429	ng	
92) Benzo(g,h,i)perylene	17.427	276	100926	10.945	ng	96

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

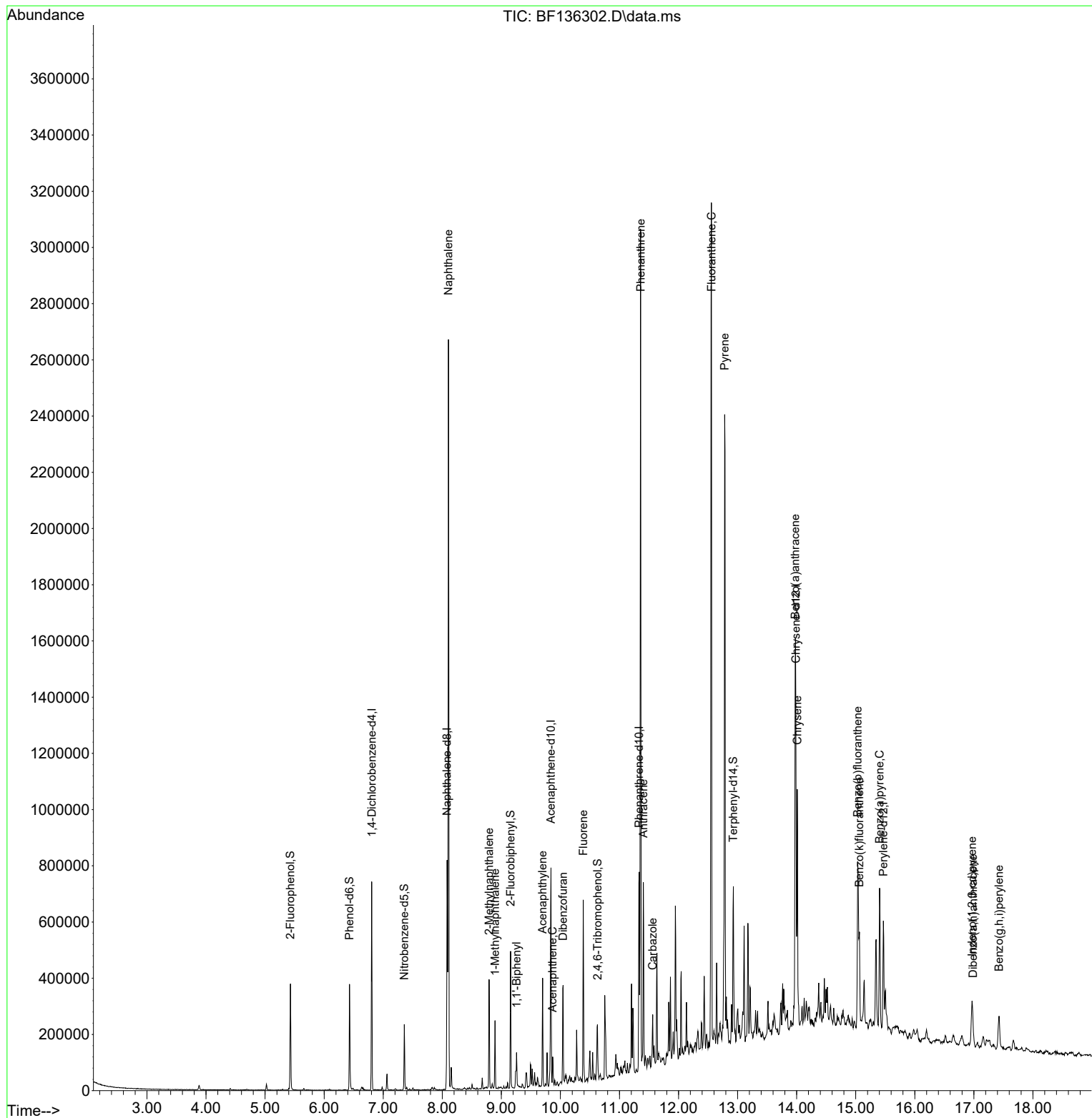
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112923\
Data File : BF136302.D
Acq On : 30 Nov 2023 01:06
Operator : CG\JU
Sample : 05312-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

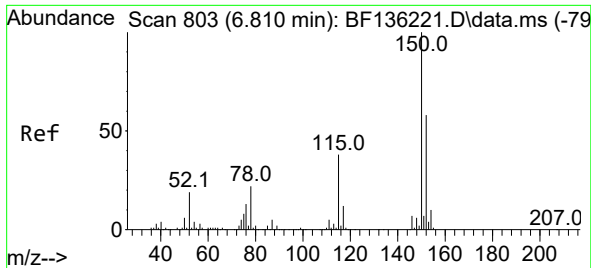
Instrument :
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Quant Time: Nov 30 01:26:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112723.M
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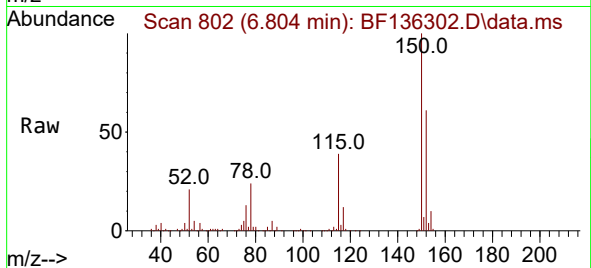
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

Instrument :

BNA_F

ClientSampleId :

DUP-03

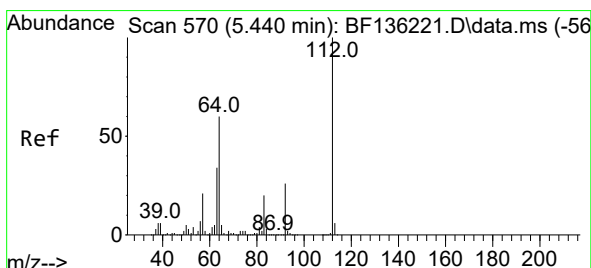
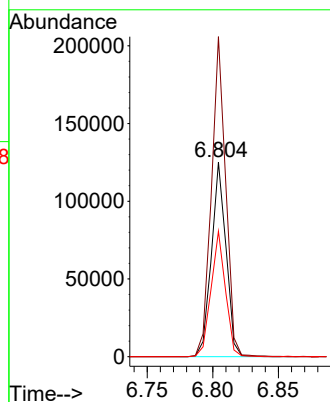
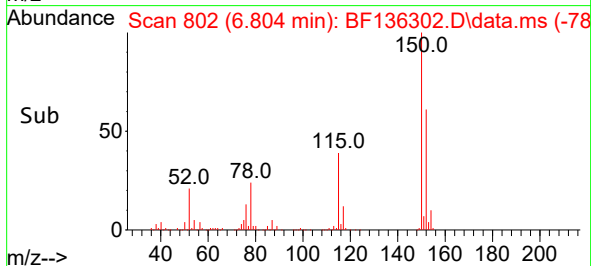


Tgt Ion:152 Resp: 97170
Ion Ratio Lower Upper
152 100
150 164.5 137.8 206.8
115 64.5 52.7 79.1

Manual Integrations

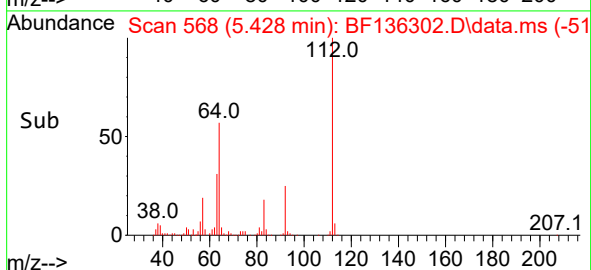
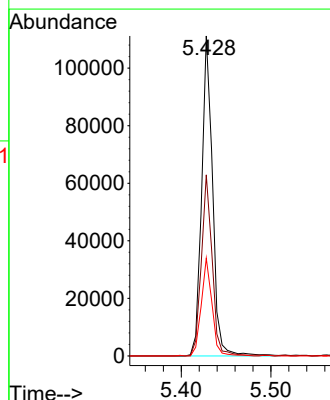
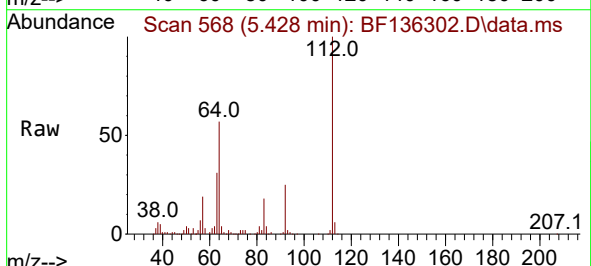
APPROVED

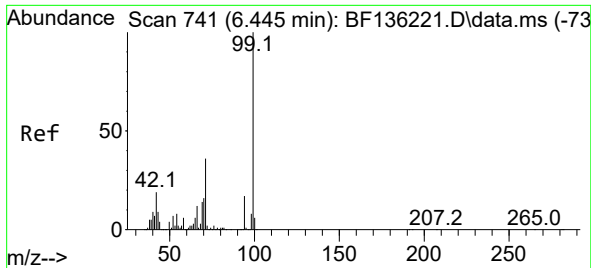
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#5
2-Fluorophenol
Concen: 13.476 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.012 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

Tgt Ion:112 Resp: 94088
Ion Ratio Lower Upper
112 100
64 56.6 48.2 72.4
63 30.5 27.0 40.6





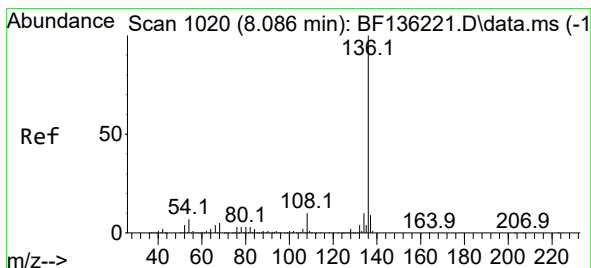
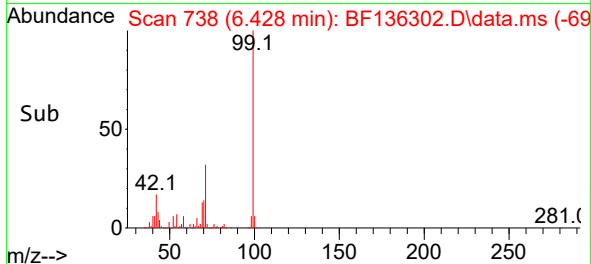
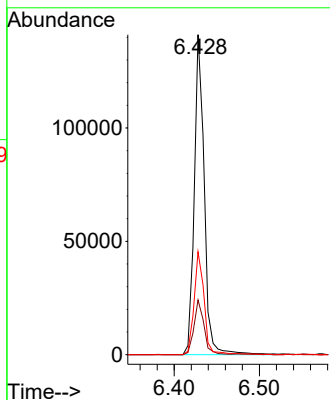
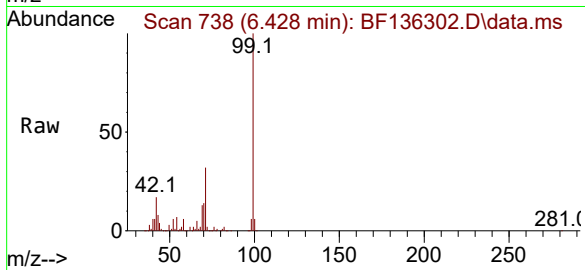
#7
Phenol-d6
Concen: 13.149 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

Instrument :
BNA_F
ClientSampleId :
DUP-03

Tgt Ion: 99 Resp: 114788
Ion Ratio Lower Upper
99 100
42 17.1 15.0 22.6
71 32.2 28.9 43.3

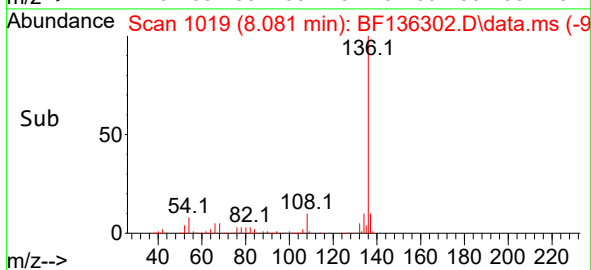
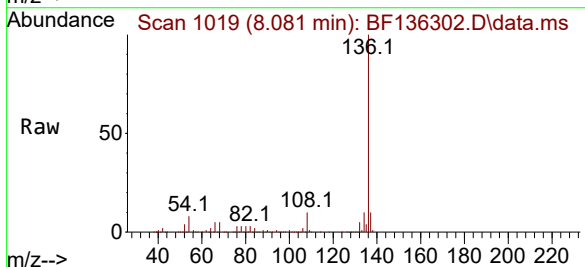
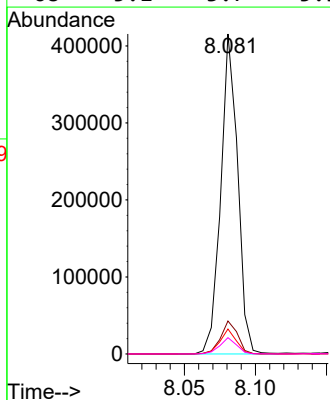
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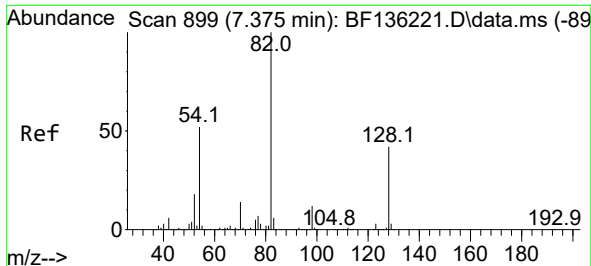
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

Tgt Ion:136 Resp: 343254
Ion Ratio Lower Upper
136 100
137 10.3 7.4 11.2
54 7.8 5.5 8.3
68 5.1 3.7 5.5





#23

Nitrobenzene-d5

Concen: 9.873 ng

RT: 7.357 min Scan# 899

Delta R.T. -0.017 min

Lab File: BF136302.D

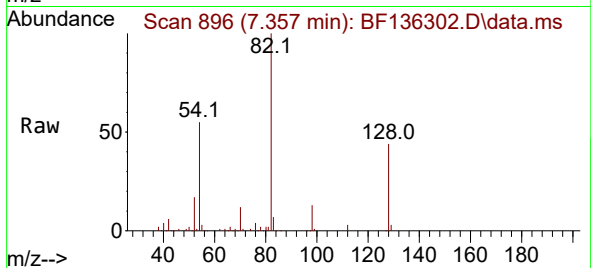
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Instrument :

BNA_F

ClientSampleId :

DUP-03



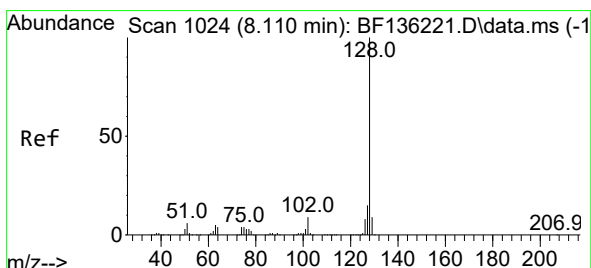
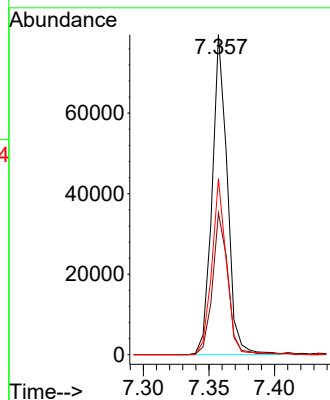
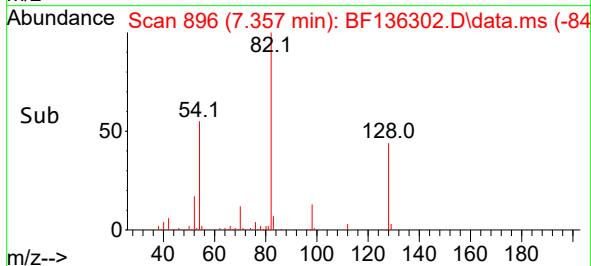
Tgt Ion:	82	Resp:	64130
Ion Ratio	Lower	Upper	
82	100		
128	44.3	33.4	50.2
54	55.0	41.7	62.5

Manual Integrations

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Supervised By :mohammad ahmed 12/01/2023



#31

Naphthalene

Concen: 58.168 ng

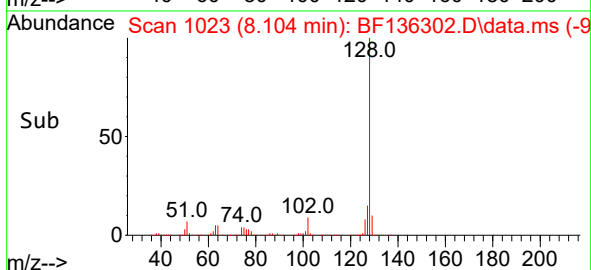
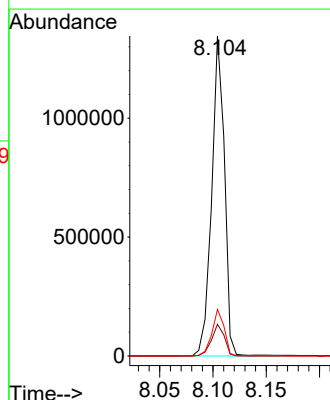
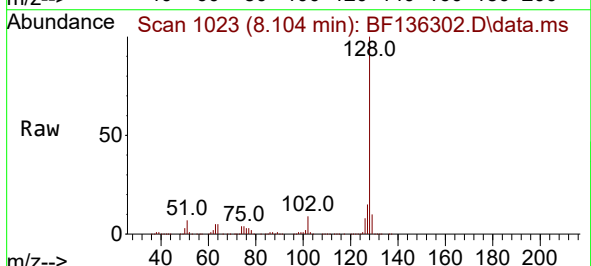
RT: 8.104 min Scan# 1023

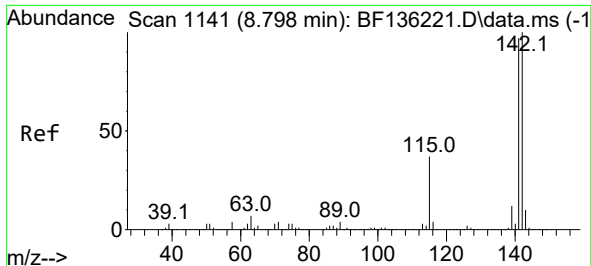
Delta R.T. -0.006 min

Lab File: BF136302.D

Acq: 30 Nov 2023 01:06

Tgt Ion:	128	Resp:	1122261
Ion Ratio	Lower	Upper	
128	100		
129	9.9	7.3	10.9
127	14.5	11.8	17.6





#37
2-Methylnaphthalene
Concen: 7.921 ng
RT: 8.792 min Scan# 1141
Delta R.T. -0.006 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

Instrument :

BNA_F

ClientSampleId :

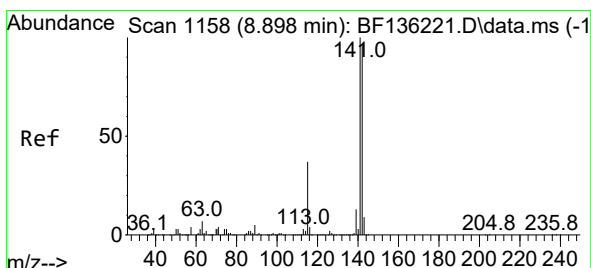
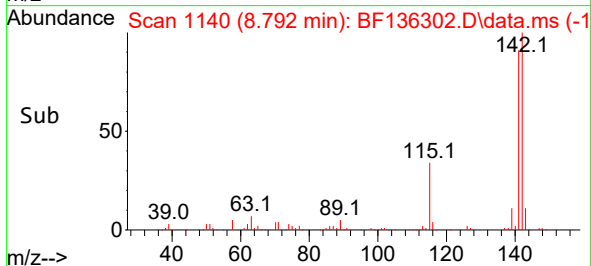
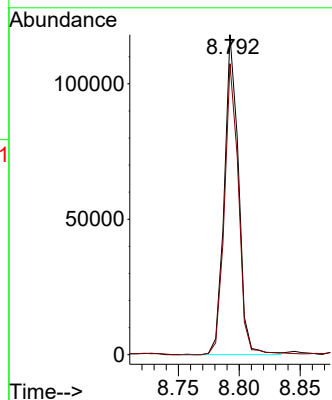
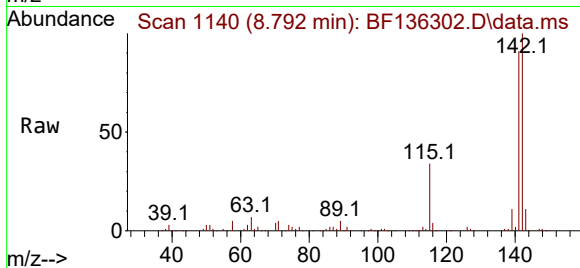
DUP-03

Tgt Ion:142 Resp: 95862
Ion Ratio Lower Upper
142 100
141 91.0 77.8 116.8

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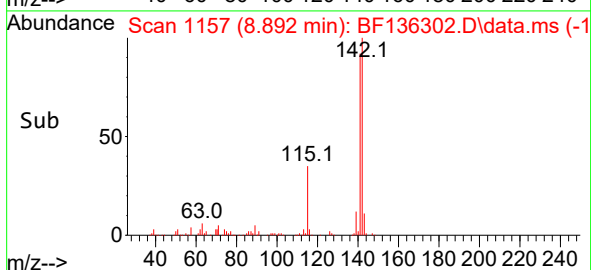
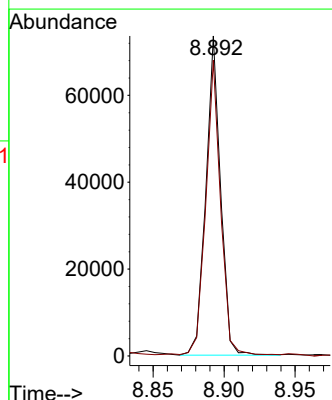
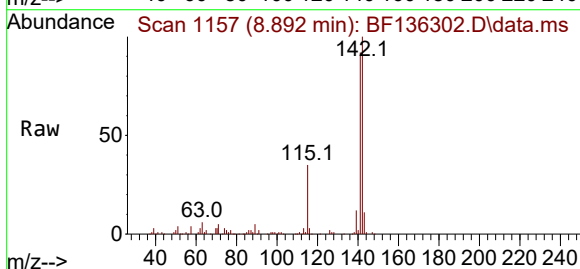
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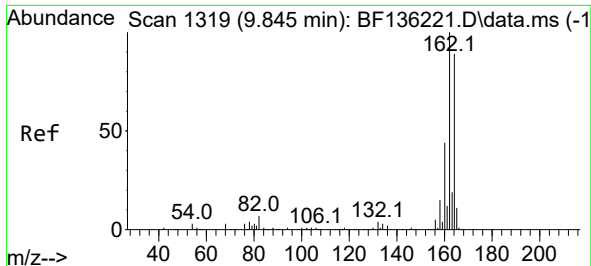
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#38
1-Methylnaphthalene
Concen: 4.508 ng
RT: 8.892 min Scan# 1157
Delta R.T. -0.006 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

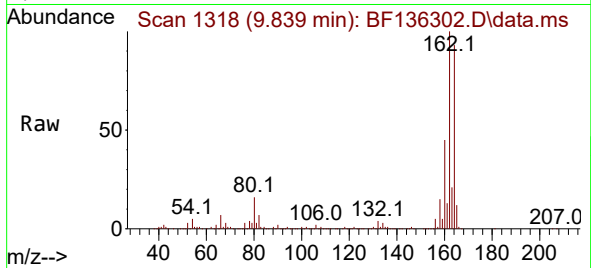
Tgt Ion:142 Resp: 53221
Ion Ratio Lower Upper
142 100
141 92.4 83.8 125.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

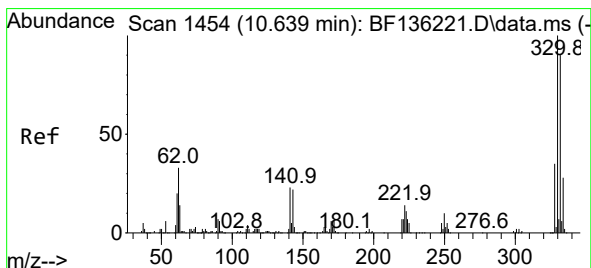
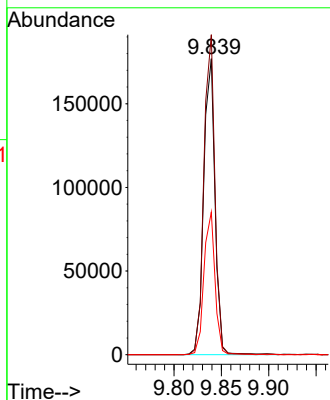
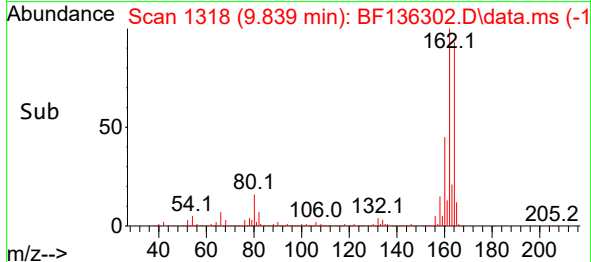
Instrument :
BNA_F
ClientSampleId :
DUP-03



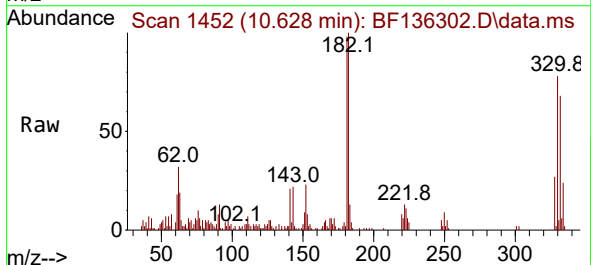
Tgt Ion:164 Resp: 146690
Ion Ratio Lower Upper
164 100
162 108.1 89.5 134.3
160 48.1 39.6 59.4

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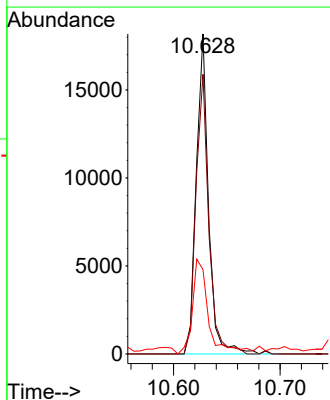
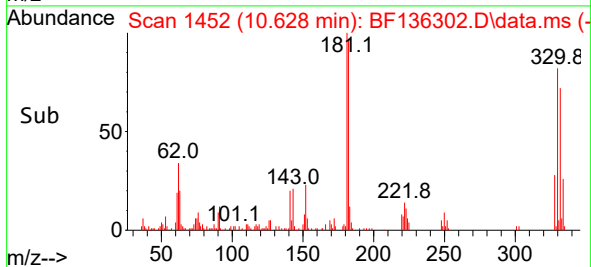
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

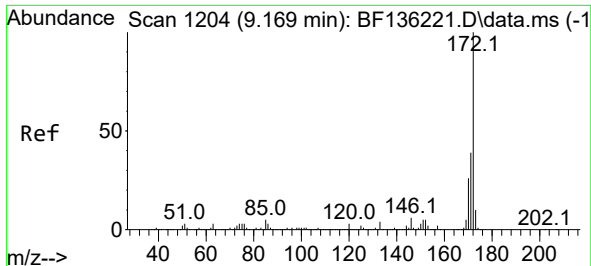


#42
2,4,6-Tribromophenol
Concen: 8.168 ng
RT: 10.628 min Scan# 1452
Delta R.T. -0.012 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06



Tgt Ion:330 Resp: 14649
Ion Ratio Lower Upper
330 100
332 90.6 73.0 109.6
141 38.4 24.2 36.2#





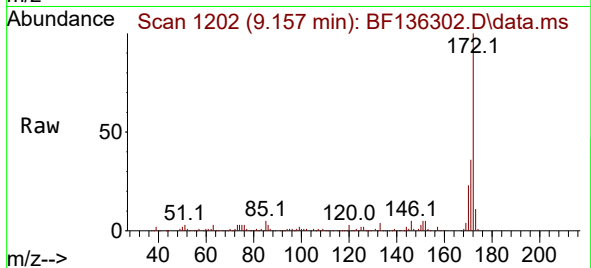
#45
2-Fluorobiphenyl
Concen: 11.305 ng
RT: 9.157 min Scan# 1219
Delta R.T. -0.012 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

Instrument :

BNA_F

ClientSampleId :

DUP-03

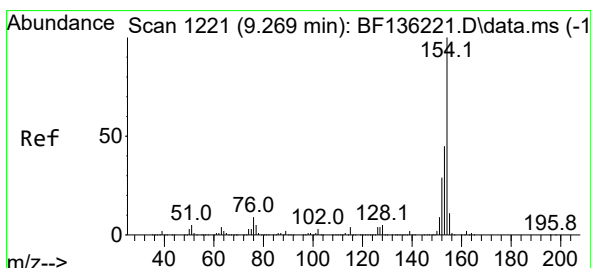
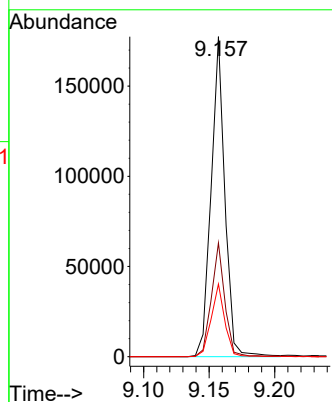
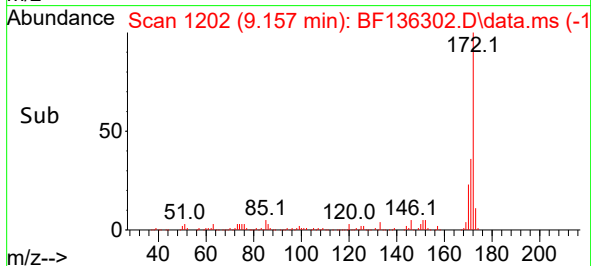


Tgt Ion:172 Resp: 12983
Ion Ratio Lower Upper
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171 35.6 31.5 47.3
170 22.7 20.8 31.2

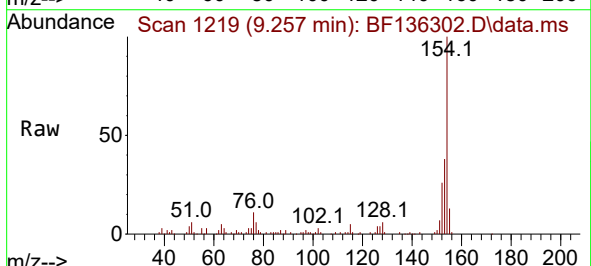
Manual Integrations

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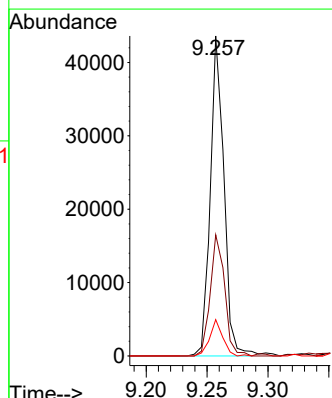
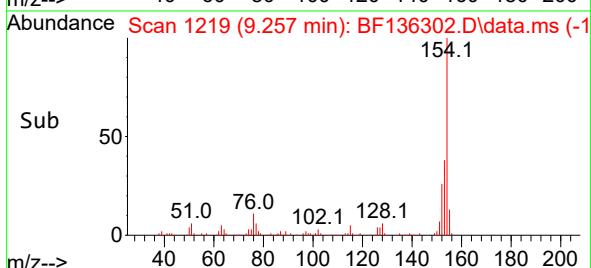
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

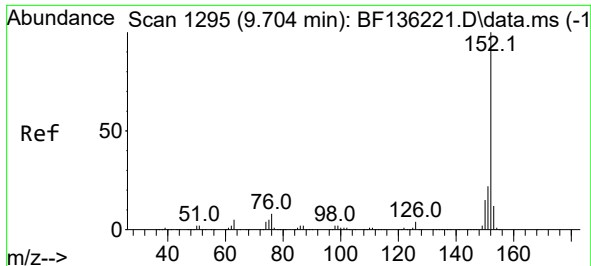


#46
1,1'-Biphenyl
Concen: 2.635 ng
RT: 9.257 min Scan# 1219
Delta R.T. -0.012 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06



Tgt Ion:154 Resp: 34084
Ion Ratio Lower Upper
154 100
153 37.8 24.6 64.6
76 11.3 0.0 29.4





#49

Acenaphthylene

Concen: 9.438 ng

RT: 9.698 min Scan# 1294

Delta R.T. -0.006 min

Lab File: BF136302.D

Acq: 30 Nov 2023 01:06

Instrument :

BNA_F

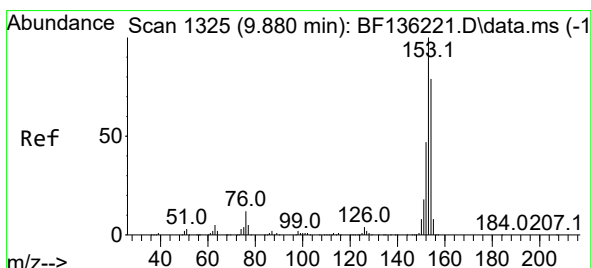
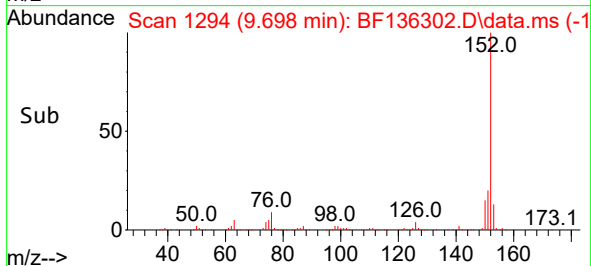
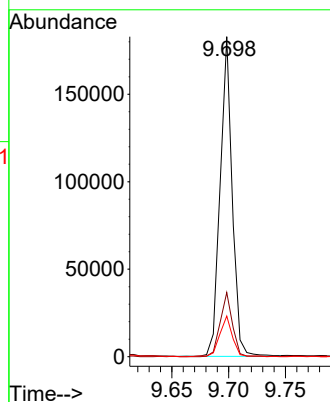
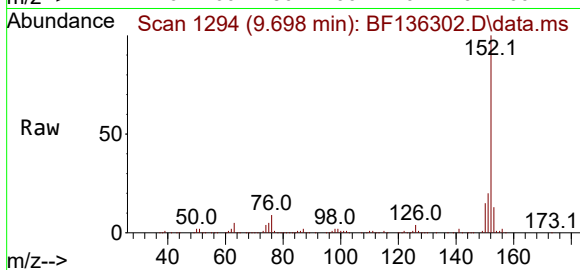
ClientSampleId :

DUP-03

Tgt Ion:152 Resp: 13531
 Ion Ratio Lower Upper
 152 100
 151 20.0 17.5 26.3
 153 12.7 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: 2.092 ng

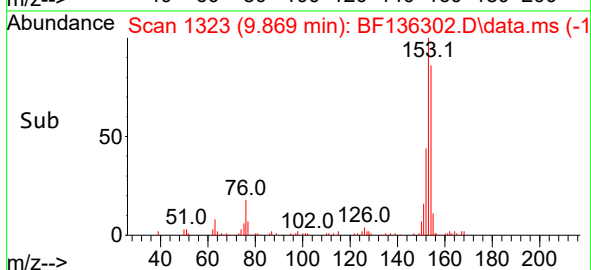
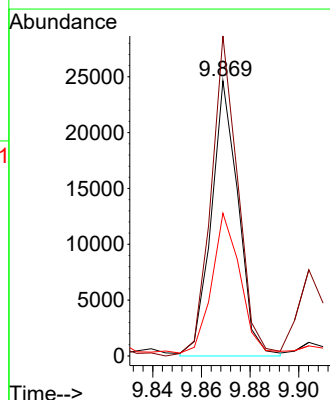
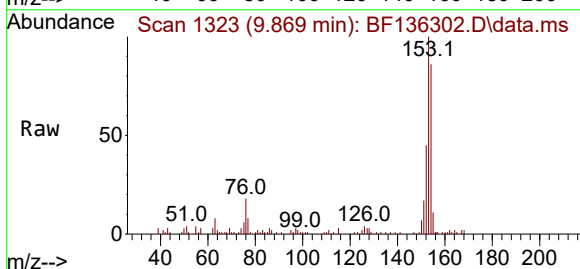
RT: 9.869 min Scan# 1323

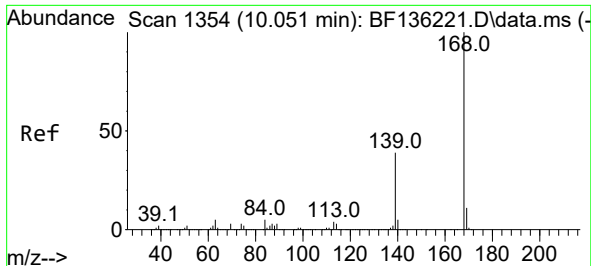
Delta R.T. -0.012 min

Lab File: BF136302.D

Acq: 30 Nov 2023 01:06

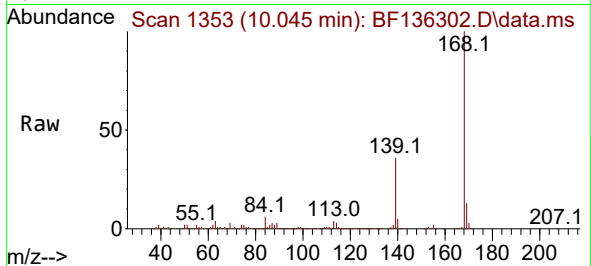
Tgt Ion:154 Resp: 18950
 Ion Ratio Lower Upper
 154 100
 153 116.3 100.8 151.2
 152 51.9 47.0 70.6





#55
Dibenzenofuran
Concen: 10.128 ng
RT: 10.045 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

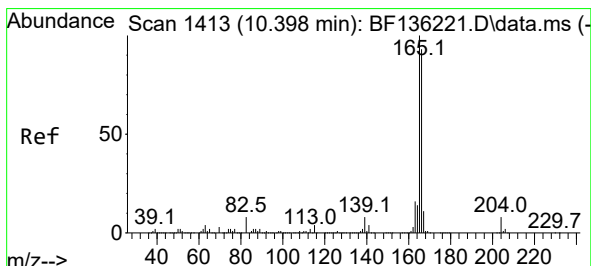
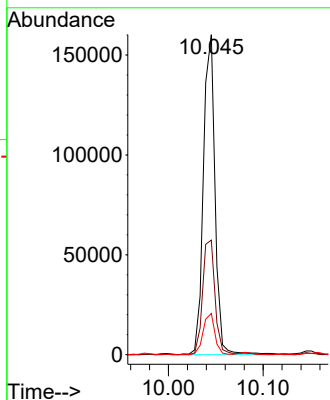
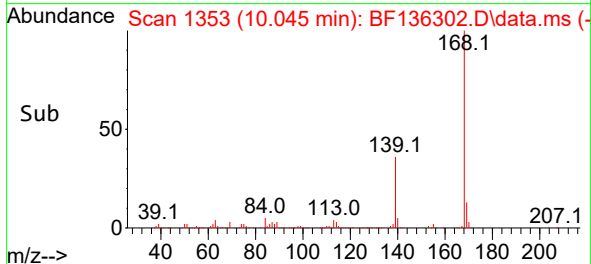
Instrument :
BNA_F
ClientSampleId :
DUP-03



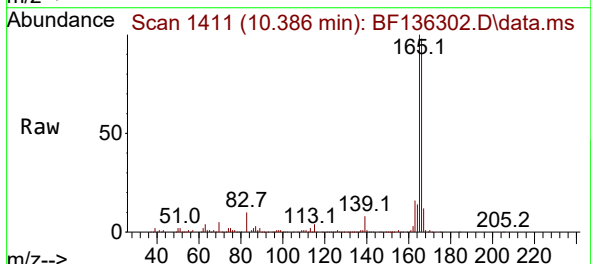
Tgt Ion:168 Resp: 136538
Ion Ratio Lower Upper
168 100
139 35.8 30.9 46.3
169 12.9 9.1 13.7

Manual Integrations
APPROVED

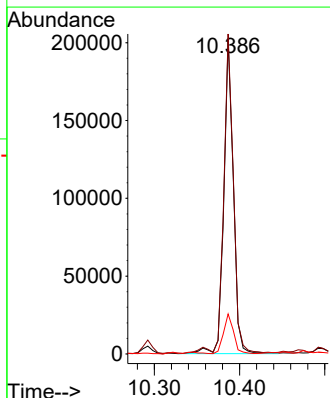
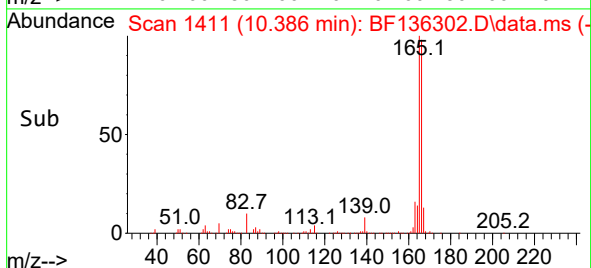
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

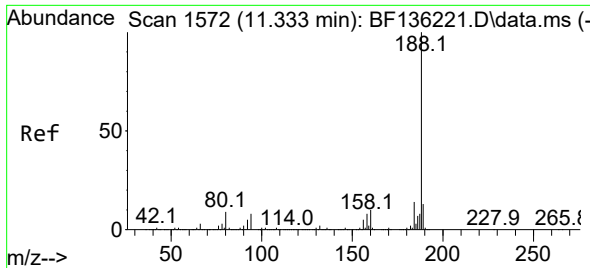


#58
Fluorene
Concen: 14.879 ng
RT: 10.386 min Scan# 1411
Delta R.T. -0.012 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06



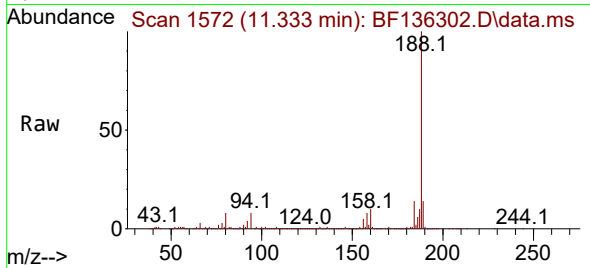
Tgt Ion:166 Resp: 157347
Ion Ratio Lower Upper
166 100
165 101.7 86.2 129.4
167 12.7 9.1 13.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.333 min Scan# 1572
Delta R.T. 0.000 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

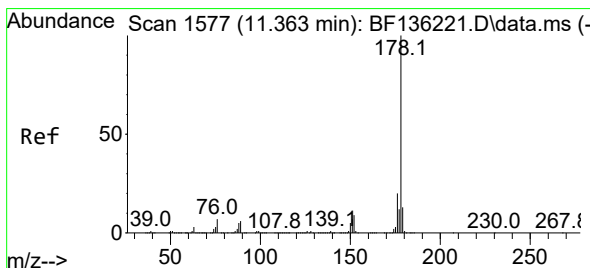
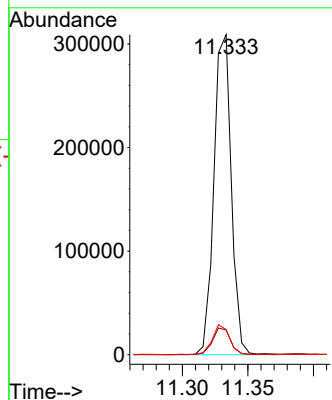
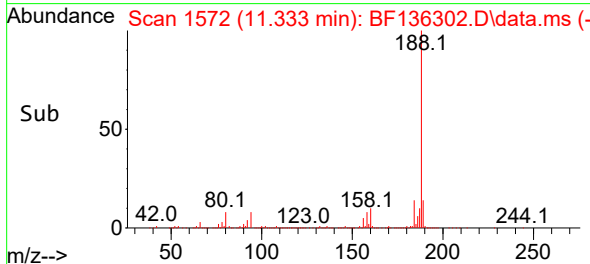
Instrument :
BNA_F
ClientSampleId :
DUP-03



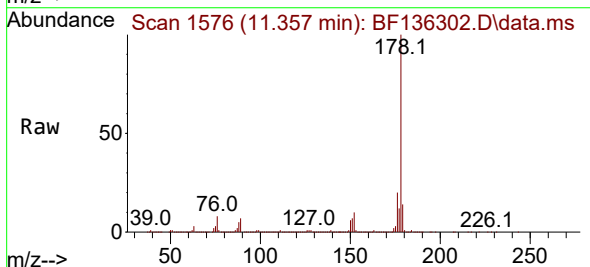
Tgt Ion:188 Resp: 28479
Ion Ratio Lower Upper
188 100
94 7.7 6.7 10.1
80 7.8 7.2 10.8

Manual Integrations
APPROVED

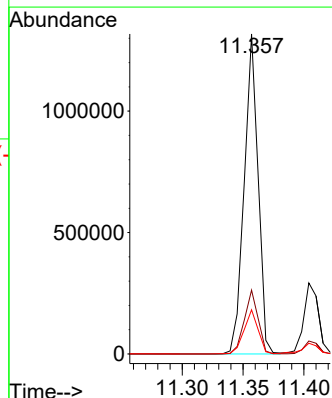
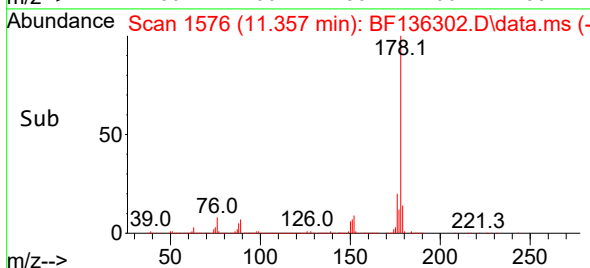
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

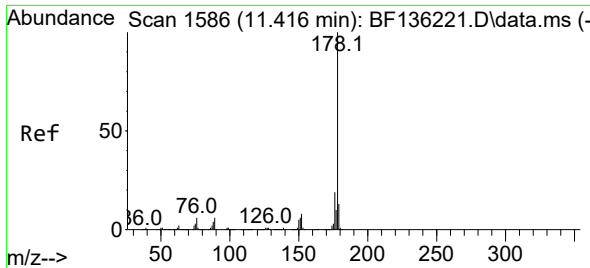


#71
Phenanthrene
Concen: 65.555 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06



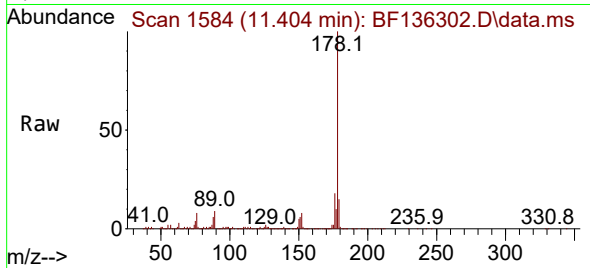
Tgt Ion:178 Resp: 1049314
Ion Ratio Lower Upper
178 100
176 20.0 16.2 24.2
179 13.8 10.3 15.5





#72
 Anthracene
 Concen: 14.765 ng
 RT: 11.404 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF136302.D
 Acq: 30 Nov 2023 01:06

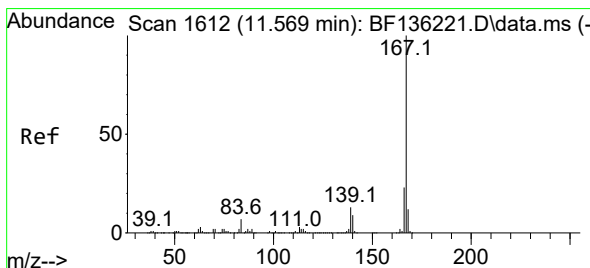
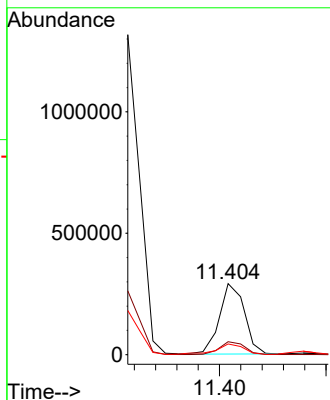
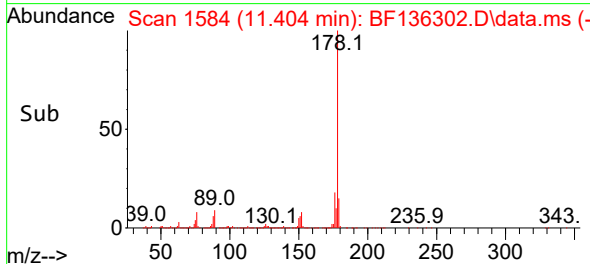
Instrument :
 BNA_F
 ClientSampleId :
 DUP-03



Tgt Ion:178 Resp: 237000
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.5 23.3
 179 15.1 10.5 15.7

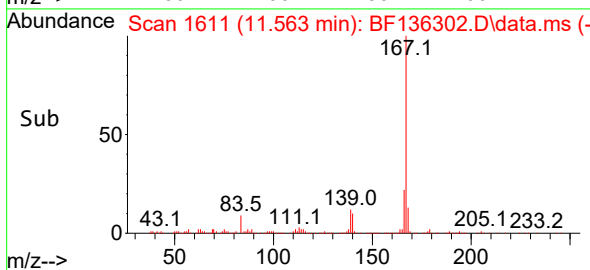
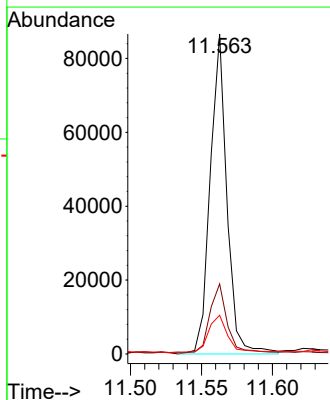
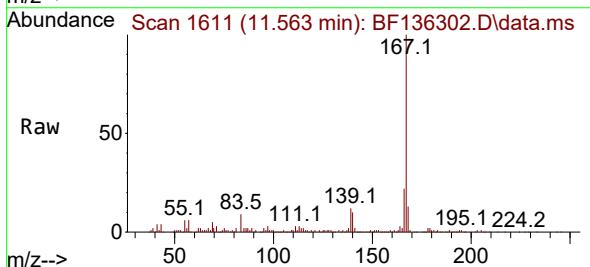
Manual Integrations
 APPROVED

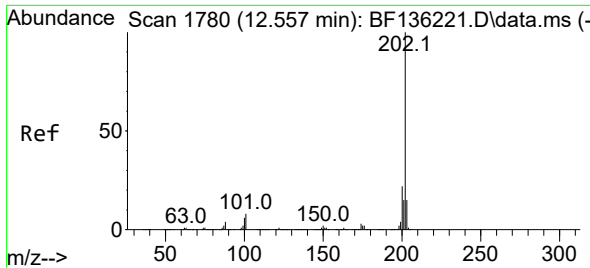
Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023



#73
 Carbazole
 Concen: 5.201 ng
 RT: 11.563 min Scan# 1611
 Delta R.T. -0.006 min
 Lab File: BF136302.D
 Acq: 30 Nov 2023 01:06

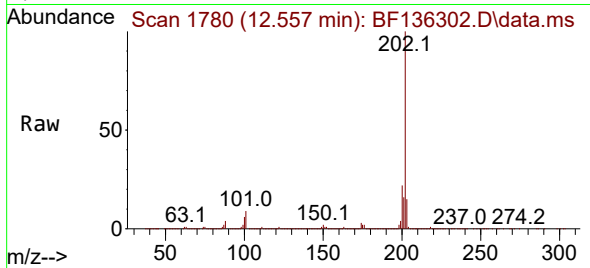
Tgt Ion:167 Resp: 71000
 Ion Ratio Lower Upper
 167 100
 166 21.9 18.4 27.6
 139 12.1 10.5 15.7





#75
Fluoranthene
Concen: 76.485 ng
RT: 12.557 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

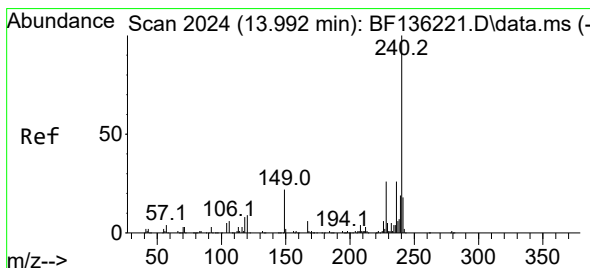
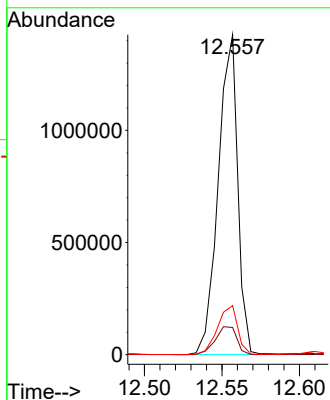
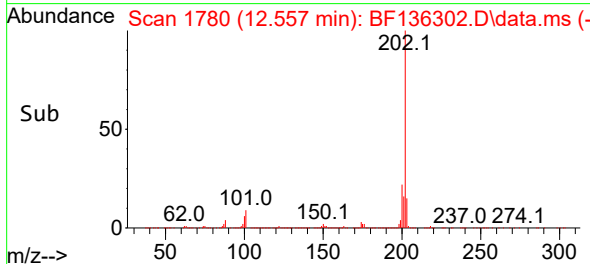
Instrument :
BNA_F
ClientSampleId :
DUP-03



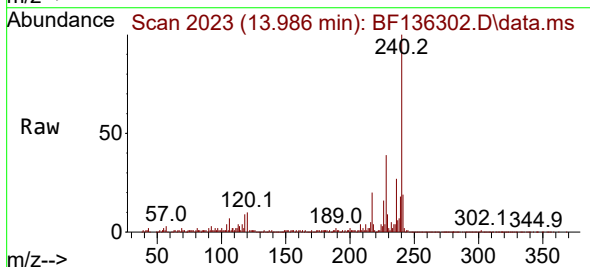
Tgt Ion:202 Resp: 1242834
Ion Ratio Lower Upper
202 100
101 8.5 0.0 27.8
203 15.3 0.0 34.5

Manual Integrations
APPROVED

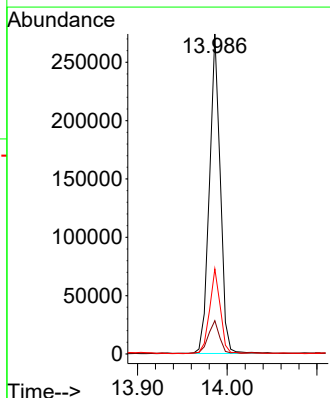
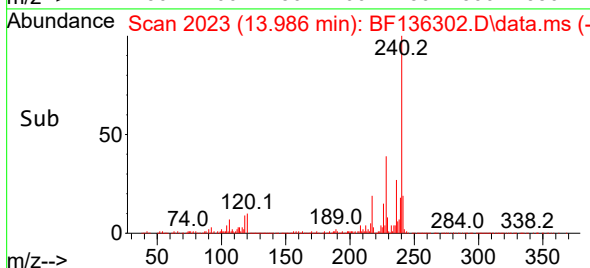
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023

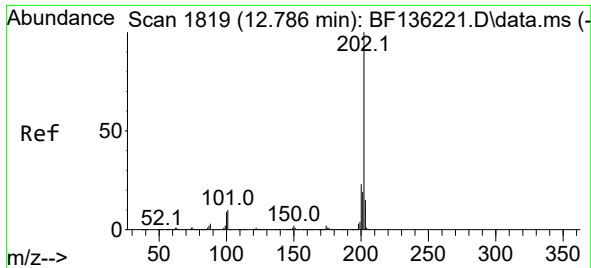


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2023
Delta R.T. -0.006 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06



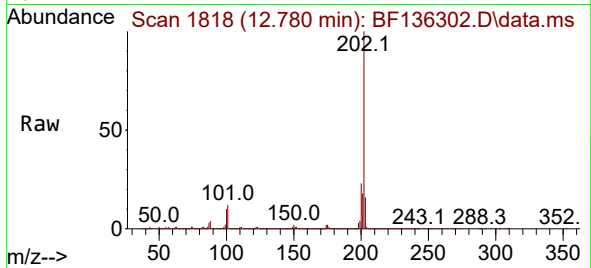
Tgt Ion:240 Resp: 230215
Ion Ratio Lower Upper
240 100
120 10.4 7.4 11.2
236 26.6 21.1 31.7





#78
 Pyrene
 Concen: 39.155 ng
 RT: 12.780 min Scan# 1819
 Delta R.T. -0.006 min
 Lab File: BF136302.D
 Acq: 30 Nov 2023 01:06

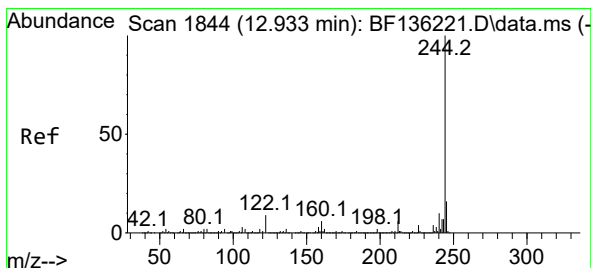
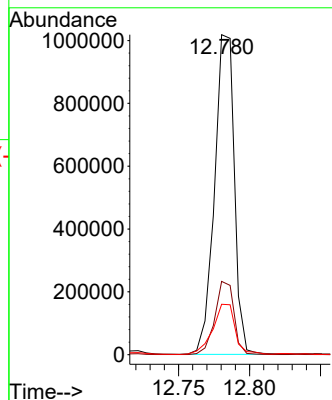
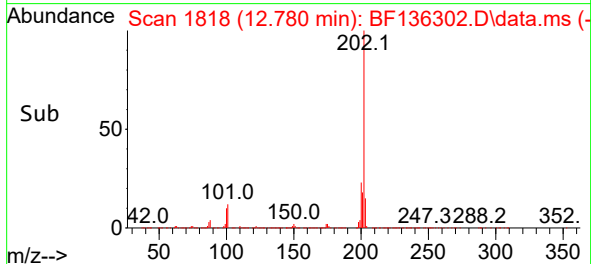
Instrument :
 BNA_F
 ClientSampleId :
 DUP-03



Tgt Ion:202 Resp: 987204
 Ion Ratio Lower Upper
 202 100
 200 22.9 18.4 27.6
 203 15.8 11.8 17.6

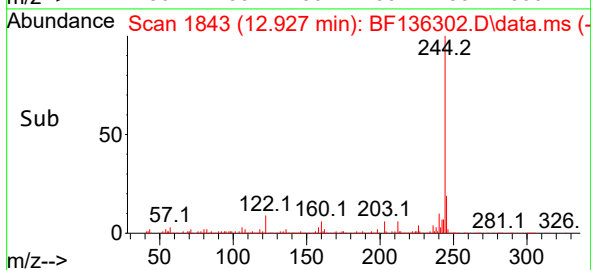
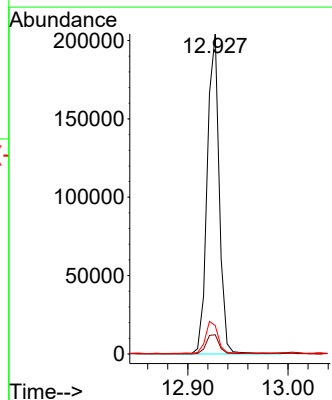
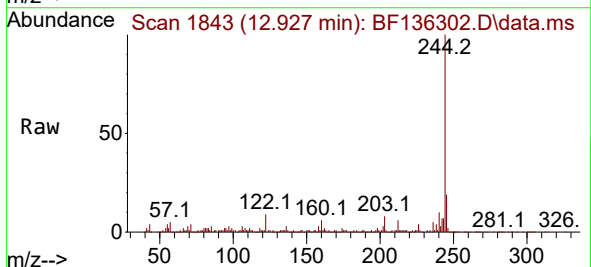
Manual Integrations
 APPROVED

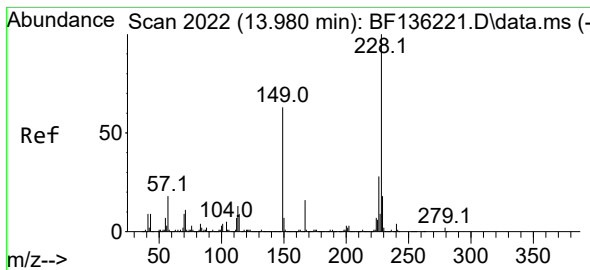
Reviewed By :Yogesh Patel 11/30/2023
 Supervised By :mohammad ahmed 12/01/2023



#79
 Terphenyl-d14
 Concen: 8.564 ng
 RT: 12.927 min Scan# 1843
 Delta R.T. -0.006 min
 Lab File: BF136302.D
 Acq: 30 Nov 2023 01:06

Tgt Ion:244 Resp: 170913
 Ion Ratio Lower Upper
 244 100
 212 6.0 4.6 7.0
 122 8.8 7.3 10.9





#81

Benzo(a)anthracene

Concen: 26.434 ng

RT: 13.974 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136302.D

Acq: 30 Nov 2023 01:06

Instrument :

BNA_F

ClientSampleId :

DUP-03

Tgt Ion:228 Resp: 452004

Ion Ratio Lower Upper

228 100

226 35.7 22.6 34.0

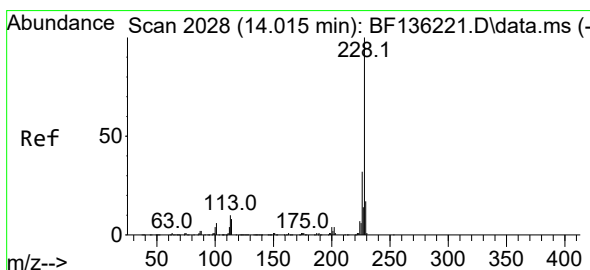
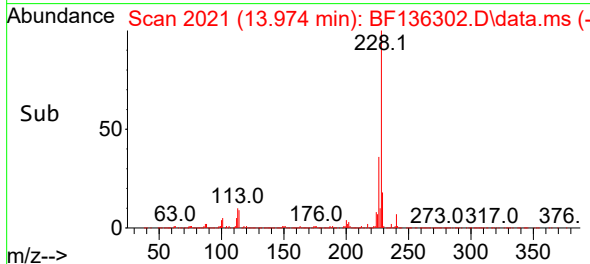
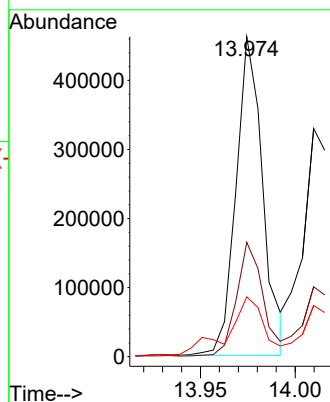
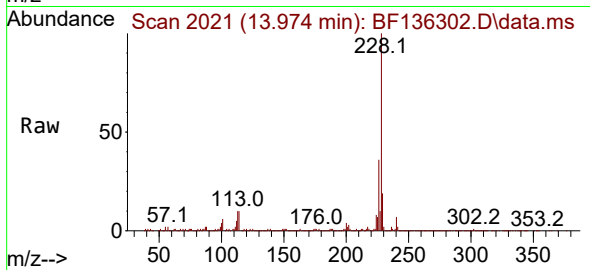
229 18.7 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#83

Chrysene

Concen: 19.970 ng m

RT: 14.010 min Scan# 2027

Delta R.T. -0.006 min

Lab File: BF136302.D

Acq: 30 Nov 2023 01:06

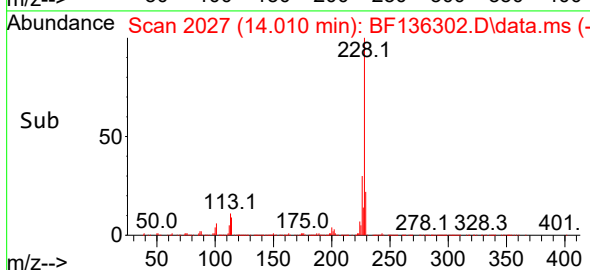
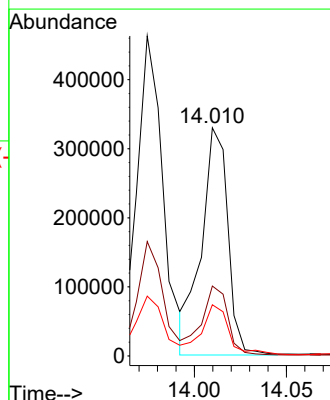
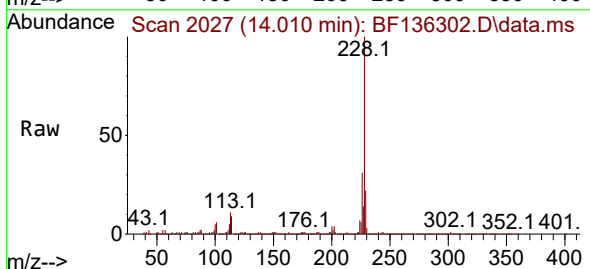
Tgt Ion:228 Resp: 329715

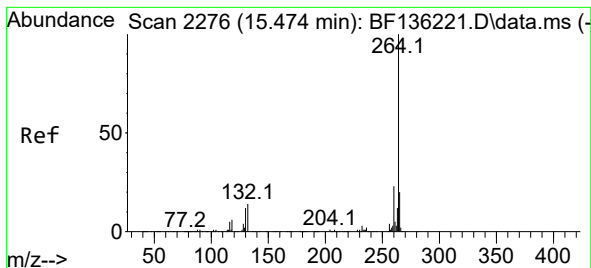
Ion Ratio Lower Upper

228 100

226 30.7 25.5 38.3

229 22.4 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: BF136302.D

Acq: 30 Nov 2023 01:06

Instrument :

BNA_F

ClientSampleId :

DUP-03

Tgt Ion:264 Resp: 17802

Ion Ratio Lower Upper

264 100

260 23.4 18.6 27.8

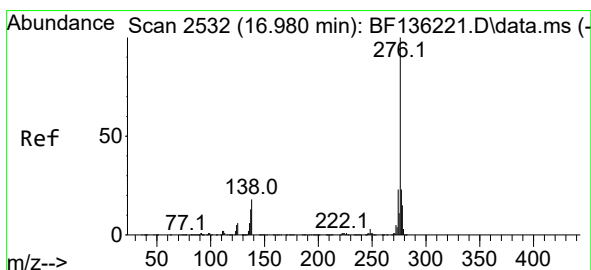
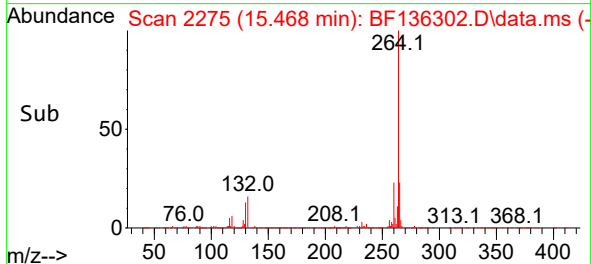
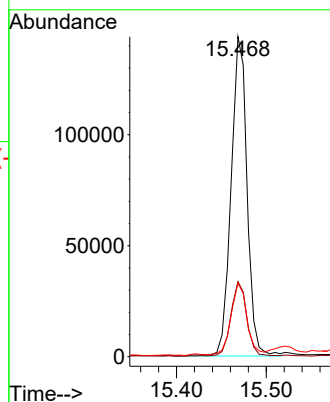
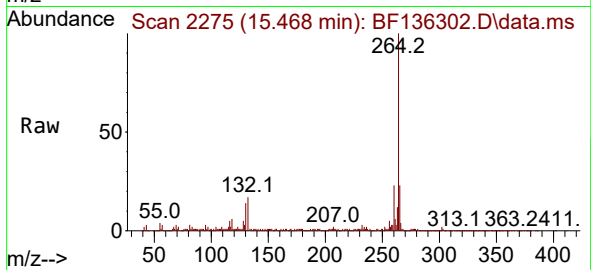
265 22.9 15.7 23.5

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: 10.781 ng

RT: 16.968 min Scan# 2530

Delta R.T. -0.012 min

Lab File: BF136302.D

Acq: 30 Nov 2023 01:06

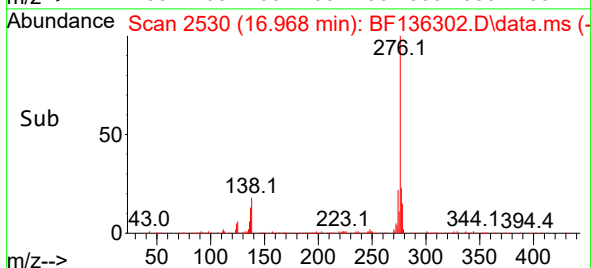
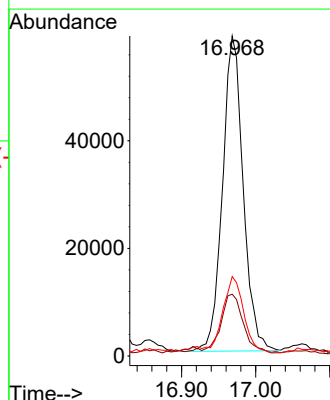
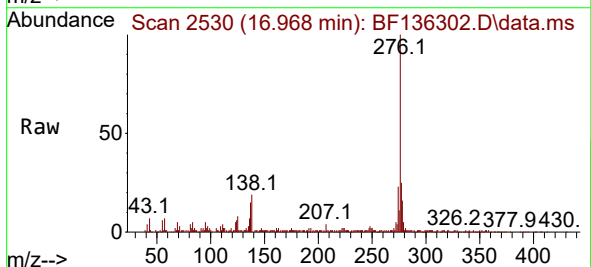
Tgt Ion:276 Resp: 114190

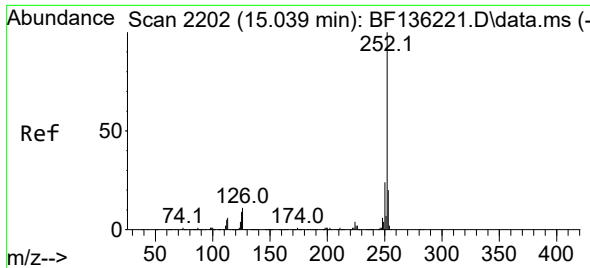
Ion Ratio Lower Upper

276 100

138 20.4 17.7 26.5

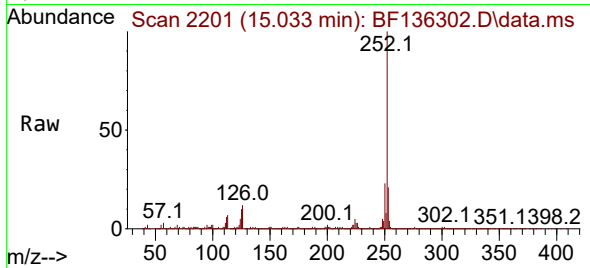
277 24.5 19.6 29.4





#88
Benzo(b)fluoranthene
Concen: 27.747 ng m
RT: 15.033 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

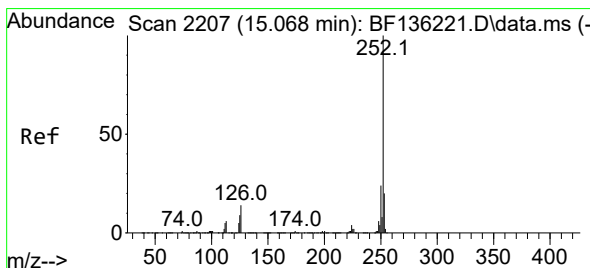
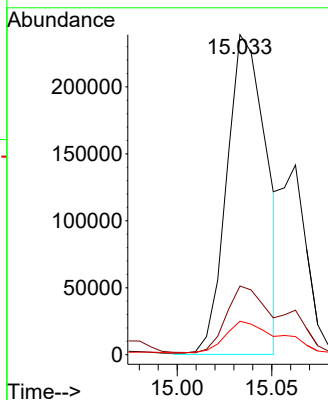
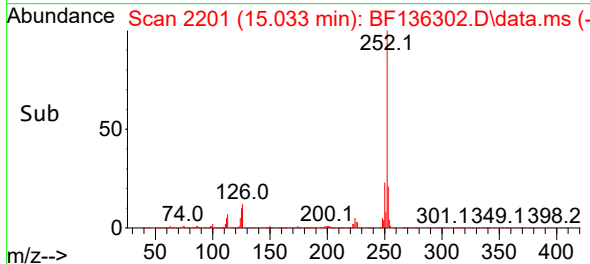
Instrument :
BNA_F
ClientSampleId :
DUP-03



Tgt Ion:252 Resp: 346569
Ion Ratio Lower Upper
252 100
253 21.5 16.2 24.2
125 10.4 6.9 10.3

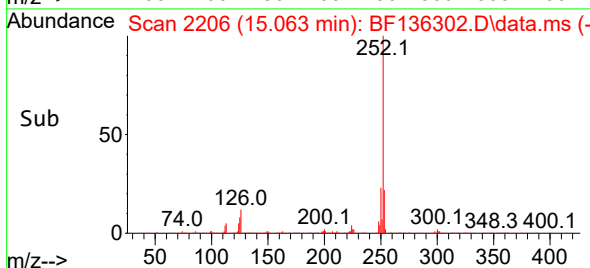
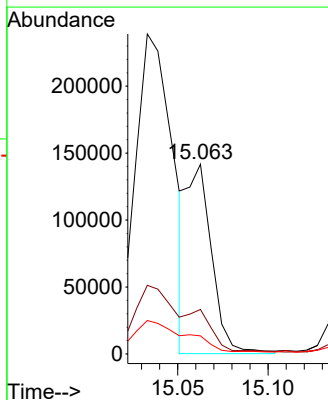
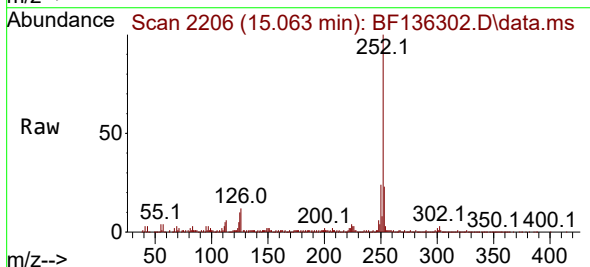
Manual Integrations
APPROVED

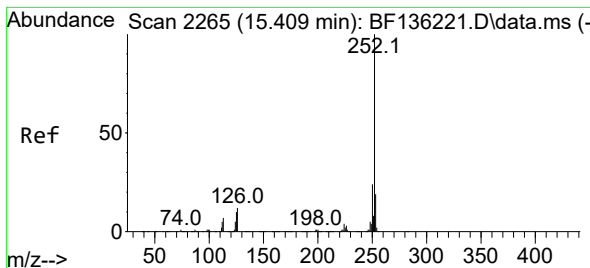
Reviewed By :Yogesh Patel 11/30/2023
Supervised By :mohammad ahmed 12/01/2023



#89
Benzo(k)fluoranthene
Concen: 11.389 ng m
RT: 15.063 min Scan# 2206
Delta R.T. -0.005 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

Tgt Ion:252 Resp: 135107
Ion Ratio Lower Upper
252 100
253 23.5 15.6 23.4#
125 9.5 7.0 10.4





#90

Benzo(a)pyrene

Concen: 23.021 ng

RT: 15.404 min Scan# 21

Delta R.T. -0.005 min

Lab File: BF136302.D

Acq: 30 Nov 2023 01:06

Instrument :

BNA_F

ClientSampleId :

DUP-03

Tgt Ion:252 Resp: 235058

Ion Ratio Lower Upper

252 100

253 22.0 15.5 23.3

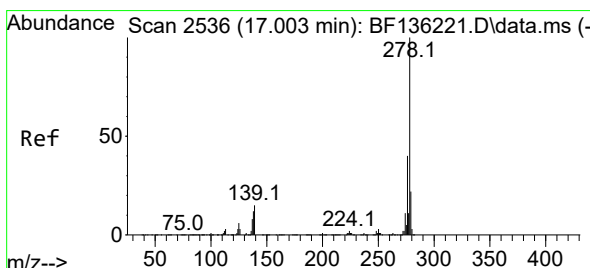
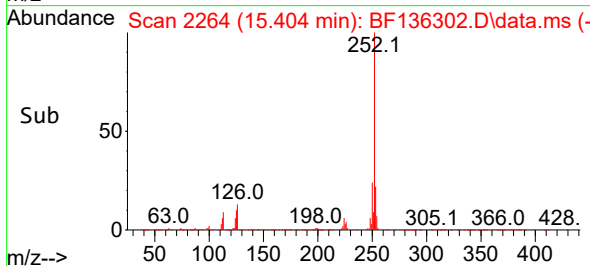
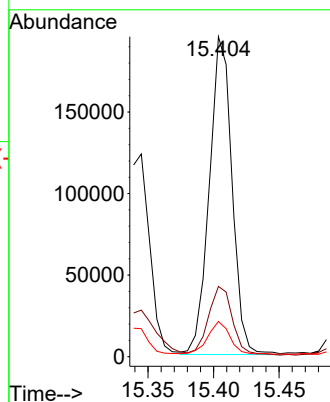
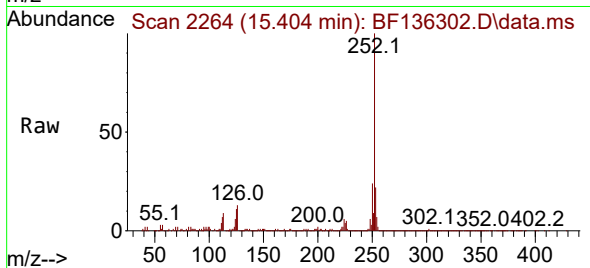
125 11.0 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#91

Dibenzo(a,h)anthracene

Concen: 5.429 ng m

RT: 16.986 min Scan# 2533

Delta R.T. -0.017 min

Lab File: BF136302.D

Acq: 30 Nov 2023 01:06

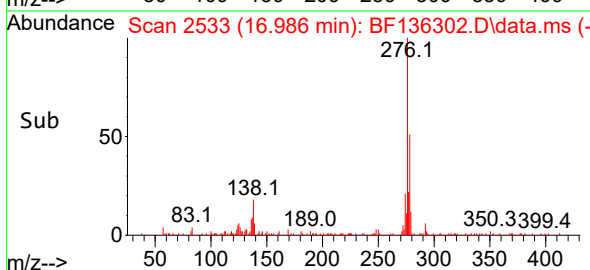
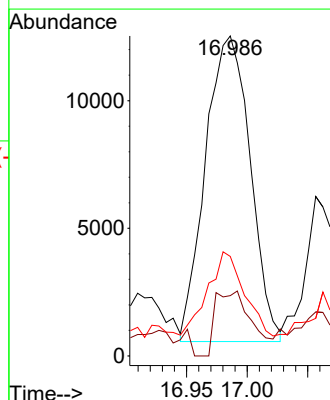
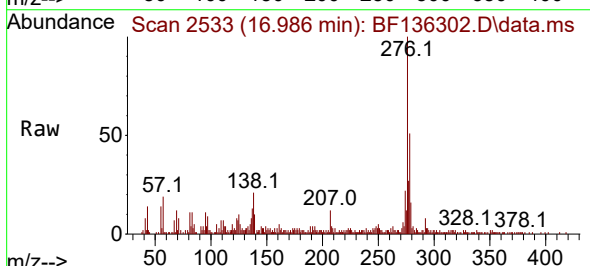
Tgt Ion:278 Resp: 30744

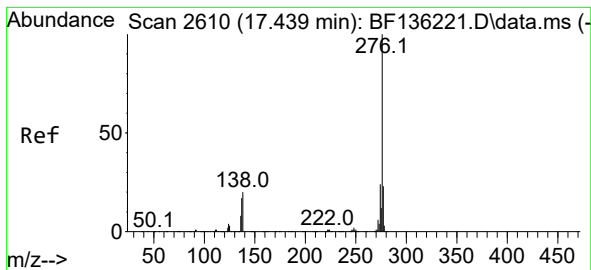
Ion Ratio Lower Upper

278 100

139 18.9 11.7 17.5#

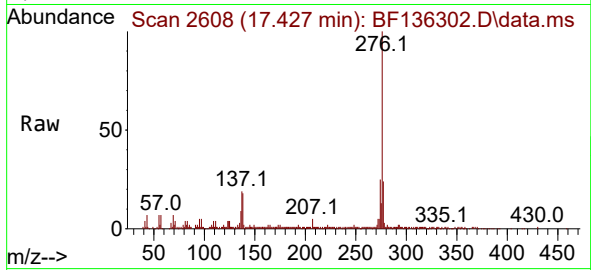
279 31.1 17.8 26.8#





#92
Benzo(g,h,i)perylene
Concen: 10.945 ng
RT: 17.427 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF136302.D
Acq: 30 Nov 2023 01:06

Instrument :
BNA_F
ClientSampleId :
DUP-03



Tgt Ion:276 Resp: 100920
Ion Ratio Lower Upper
276 100
277 24.3 18.6 27.8
138 17.5 15.8 23.8

Manual Integrations
APPROVED

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

