

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110123\
 Data File : BF136082.D
 Acq On : 01 Nov 2023 17:58
 Operator : CG\JU
 Sample : 04858-01DL 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-1DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh
 Patel

11/02/2023
 Supervised By :mohammad
 ahmed

Quant Time: Nov 01 22:41:47 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 01:13:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	132002	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	499601	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	242542	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	371160	20.000	ng	0.00
76) Chrysene-d12	14.010	240	271004	20.000	ng	# 0.00
86) Perylene-d12	15.504	264	259137	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	160995	19.166	ng	-0.01
7) Phenol-d6	6.445	99	203272	19.422	ng	-0.01
23) Nitrobenzene-d5	7.375	82	111986	13.512	ng	-0.02
42) 2,4,6-Tribromophenol	10.651	330	41871	16.174	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	221443	14.554	ng	0.00
79) Terphenyl-d14	12.951	244	171350	9.826	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.122	128	189330	7.859	ng	99
37) 2-Methylnaphthalene	8.816	142	61009	3.777	ng	98
38) 1-Methylnaphthalene	8.916	142	41328	2.749	ng	99
52) Acenaphthene	9.892	154	63490	4.697	ng	99
55) Dibenzofuran	10.063	168	73195	3.713	ng	97
58) Fluorene	10.410	166	97585	6.612	ng	98
71) Phenanthrene	11.380	178	560456	29.990	ng	98
72) Anthracene	11.427	178	166505	8.695	ng	99
73) Carbazole	11.586	167	44583	2.679	ng	99
75) Fluoranthene	12.574	202	490911	25.570	ng	99
78) Pyrene	12.804	202	399956	16.739	ng	99
81) Benzo(a)anthracene	13.998	228	221280	12.334	ng	98
83) Chrysene	14.039	228	186977	10.582	ng	98
87) Indeno(1,2,3-cd)pyrene	17.009	276	60717	3.585	ng	97
88) Benzo(b)fluoranthene	15.063	252	203717m	13.286	ng	
89) Benzo(k)fluoranthene	15.092	252	77849m	5.131	ng	
90) Benzo(a)pyrene	15.433	252	139202	9.770	ng	97
92) Benzo(g,h,i)perylene	17.462	276	52116	5.996	ng	98

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

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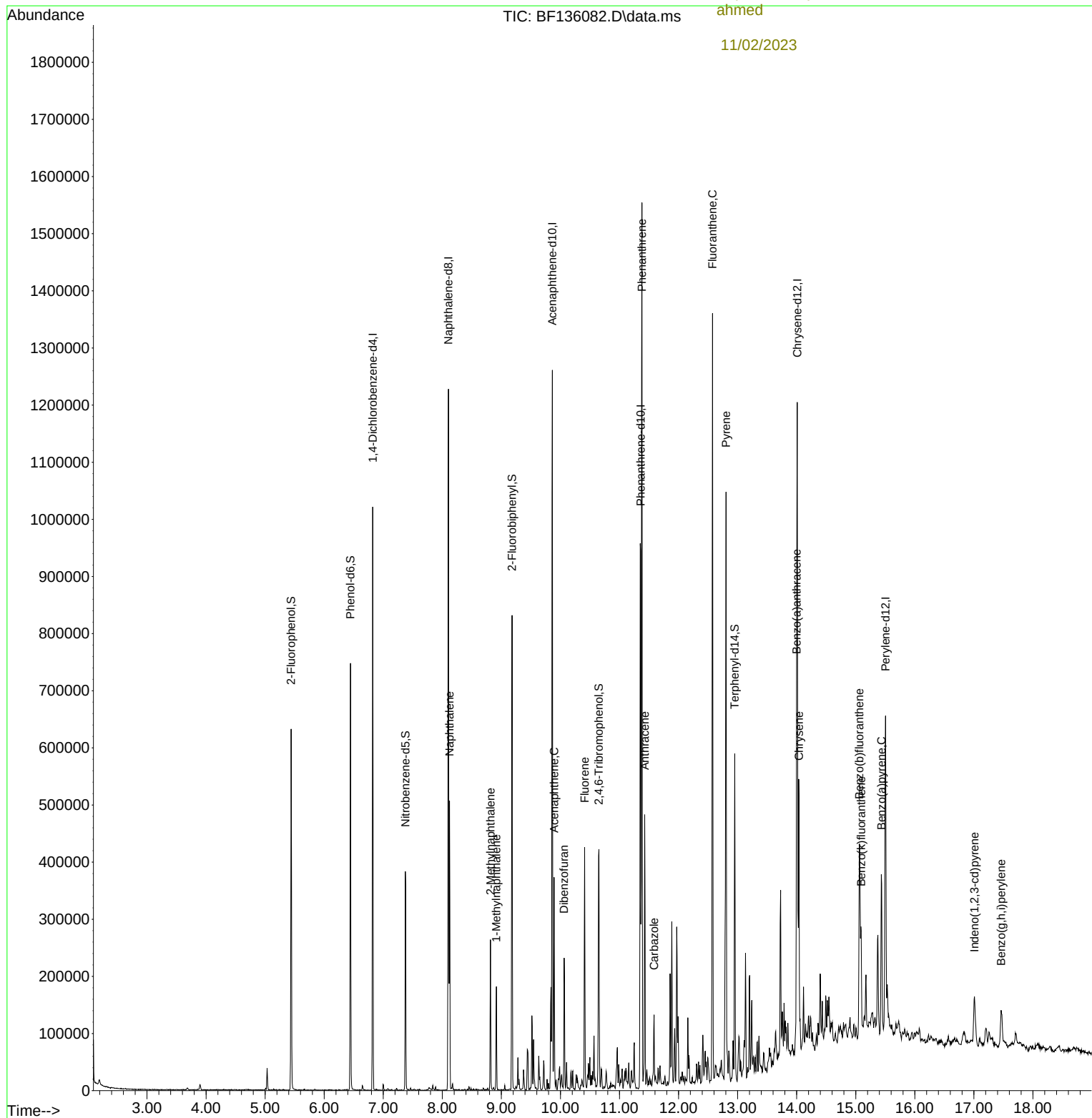
Instrument :
BNA_F
ClientSampleId :
WC-1DL

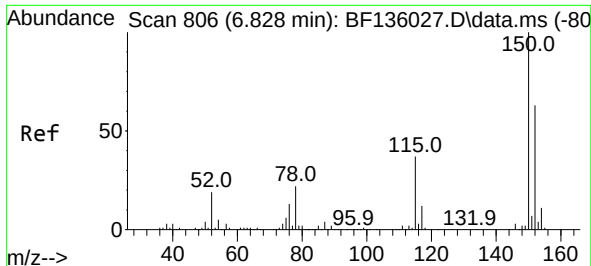
Quant Time: Nov 01 22:41:47 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 31 01:13:02 2023
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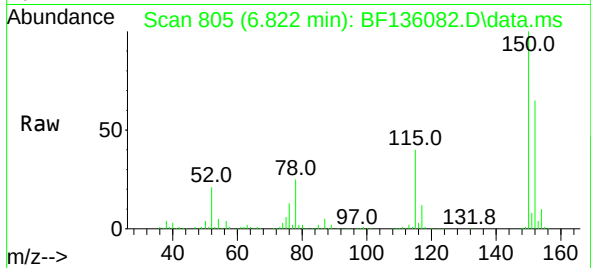
11/02/2023
Supervised By :mohammad
ahmed





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Instrument :
BNA_F
ClientSampleId :
WC-1DL



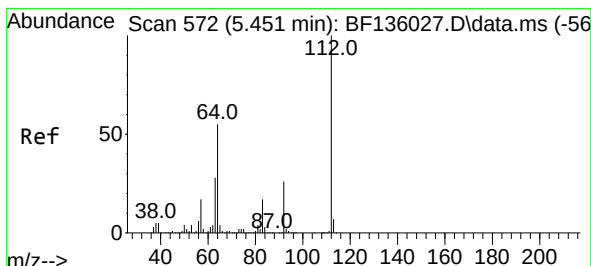
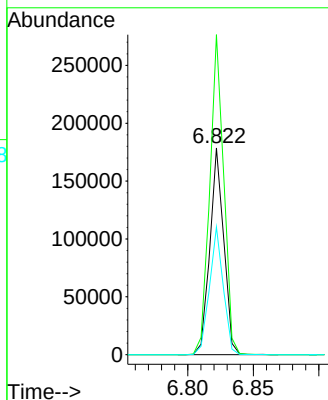
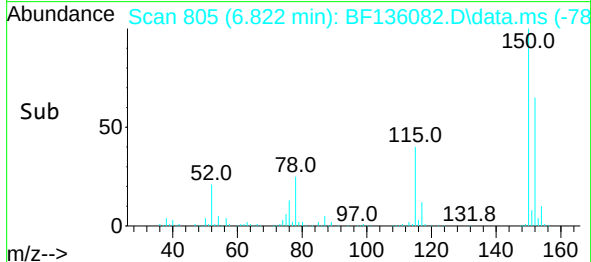
Tgt Ion:152 Resp: 132000
Ion Ratio Lower Upper
152 100
150 154.8 126.4 189.6
115 61.8 47.0 70.4

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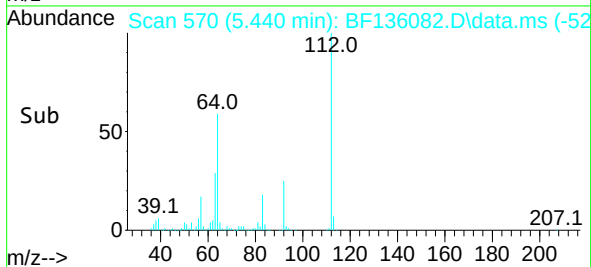
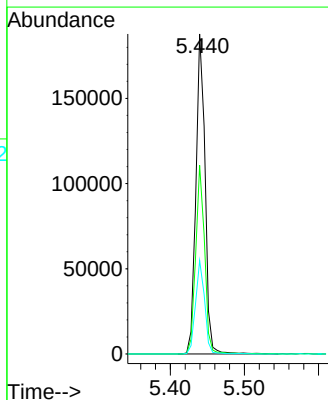
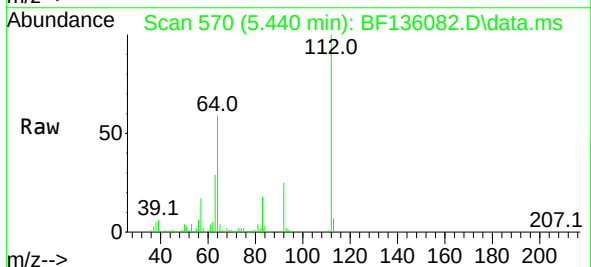
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Supervised By :mohammad
ahmed

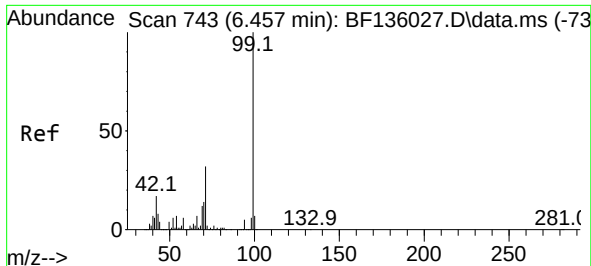
11/02/2023



#5
2-Fluorophenol
Concen: 19.166 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

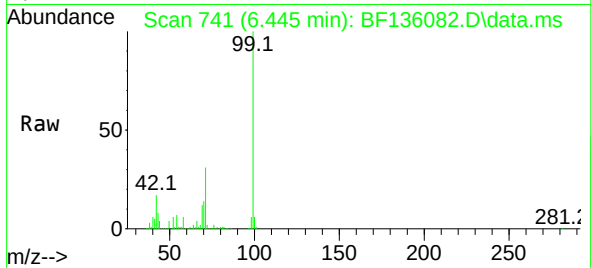
Tgt Ion:112 Resp: 160995
Ion Ratio Lower Upper
112 100
64 59.0 43.9 65.9
63 29.2 22.4 33.6





#7
Phenol-d6
Concen: 19.422 ng
RT: 6.445 min Scan# 743
Delta R.T. -0.012 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Instrument :
BNA_F
ClientSampleId :
WC-1DL



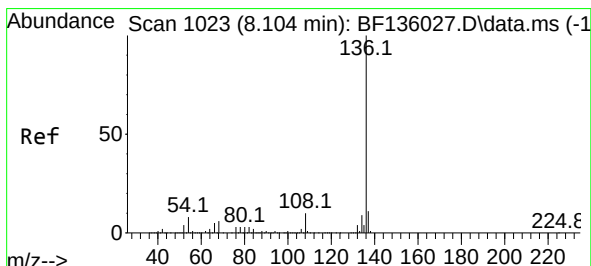
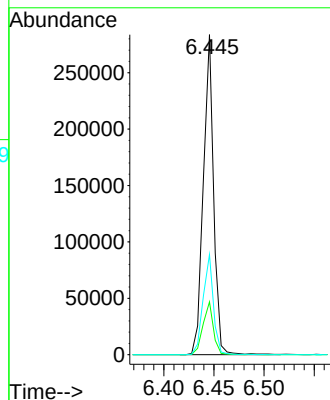
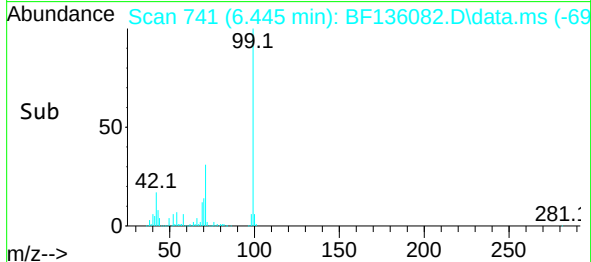
Tgt Ion: 99 Resp: 203272
Ion Ratio Lower Upper
99 100
42 16.5 13.7 20.5
71 31.3 25.9 38.9

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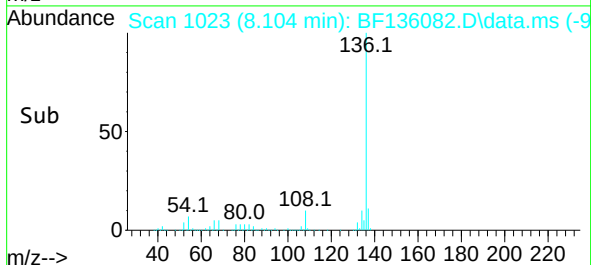
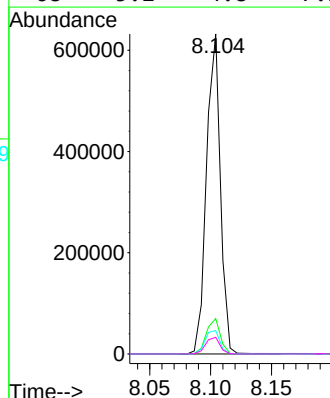
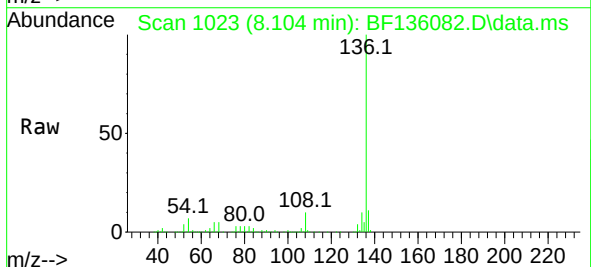
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Supervised By :mohammad
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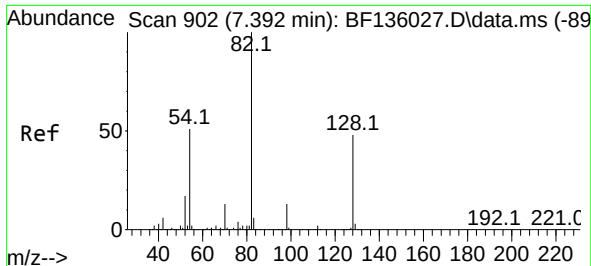
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

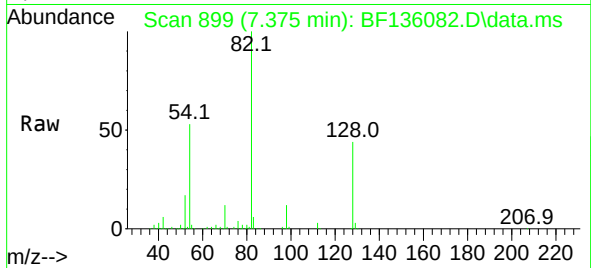
Tgt Ion:136 Resp: 499601
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 7.3 6.6 9.8
68 5.2 4.8 7.2





#23
Nitrobenzene-d5
Concen: 13.512 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.017 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Instrument :
BNA_F
ClientSampleId :
WC-1DL



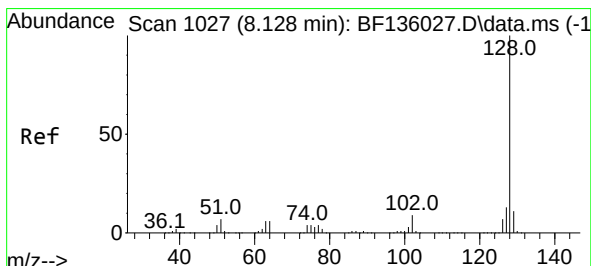
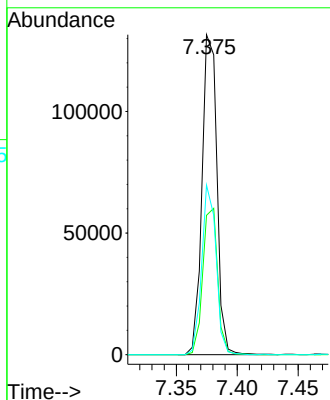
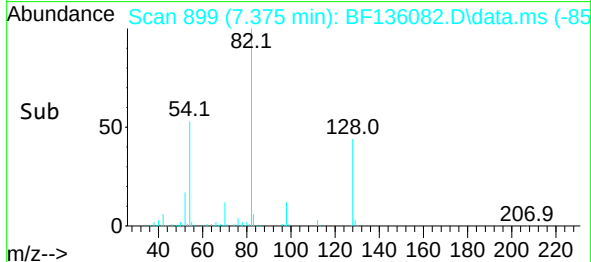
Tgt Ion: 82 Resp: 111980
Ion Ratio Lower Upper
82 100
128 43.5 38.6 57.8
54 53.0 40.8 61.2

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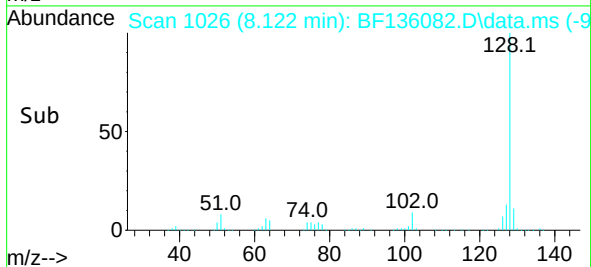
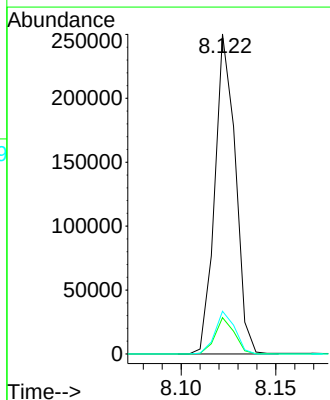
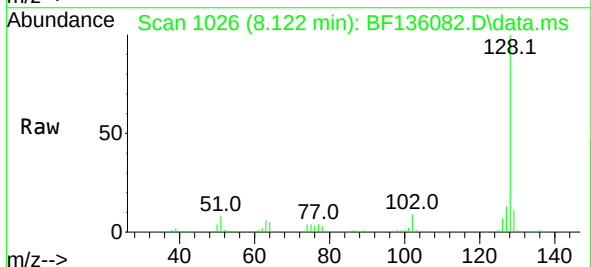
11/02/2023
Supervised By :mohammad
ahmed

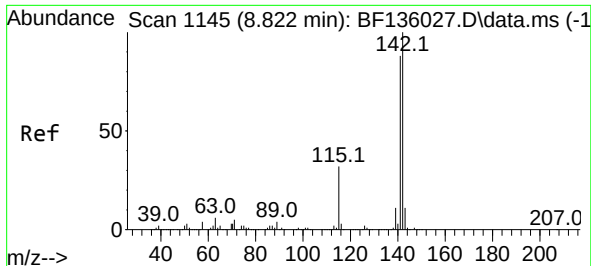
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#31
Naphthalene
Concen: 7.859 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Tgt Ion:128 Resp: 189330
Ion Ratio Lower Upper
128 100
129 11.4 8.9 13.3
127 13.3 10.5 15.7





#37

2-Methylnaphthalene

Concen: 3.777 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136082.D

Acq: 01 Nov 2023 17:58

Instrument :

BNA_F

ClientSampleId :

WC-1DL

Tgt Ion:142 Resp: 61009

Ion Ratio Lower Upper

142 100

141 86.0 70.4 105.6

Manual Integrations

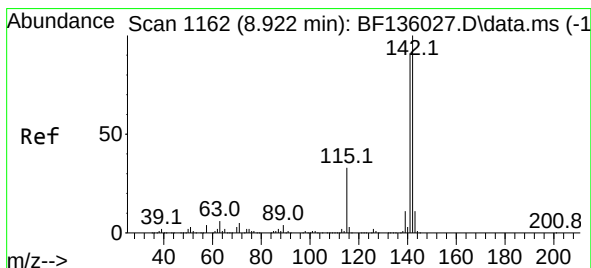
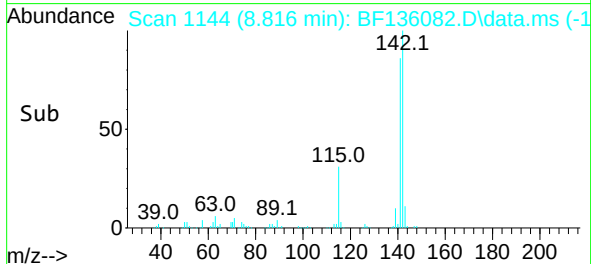
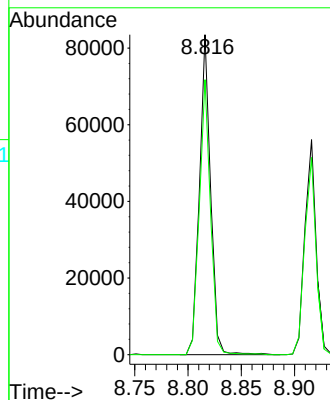
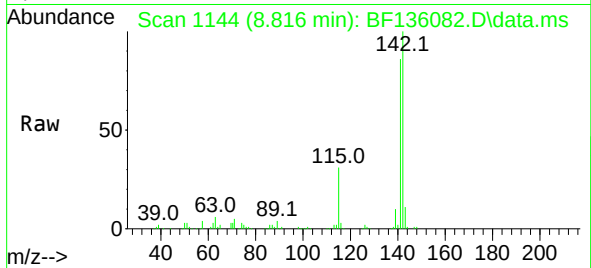
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Reviewed By :Yogesh
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Supervised By :mohammad
ahmed

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#38

1-Methylnaphthalene

Concen: 2.749 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136082.D

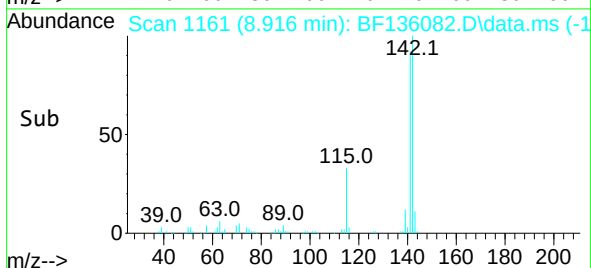
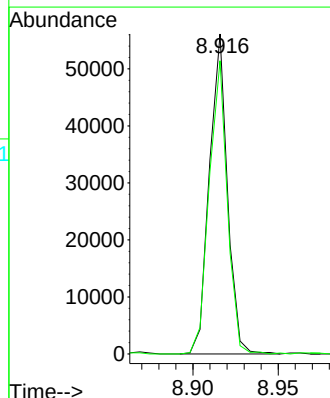
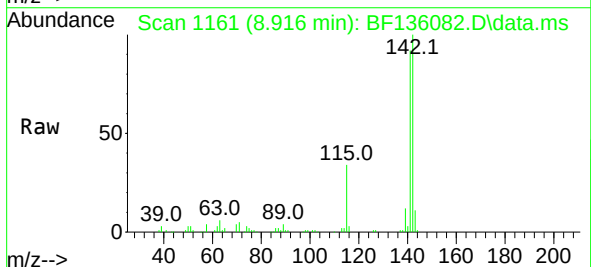
Acq: 01 Nov 2023 17:58

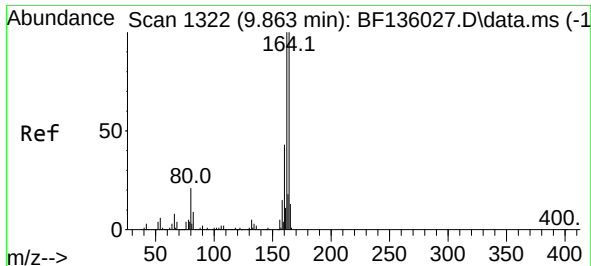
Tgt Ion:142 Resp: 41328

Ion Ratio Lower Upper

142 100

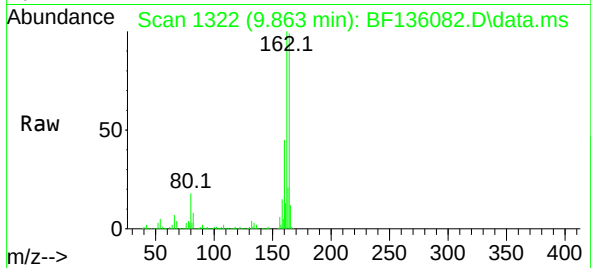
141 91.6 72.6 109.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.000 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Instrument :
BNA_F
ClientSampleId :
WC-1DL



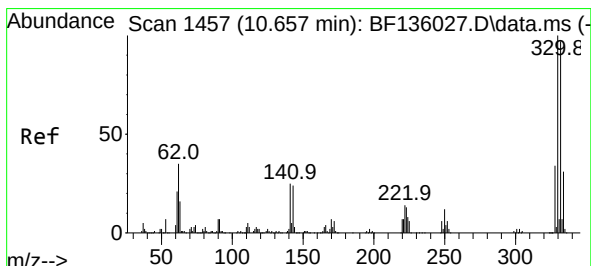
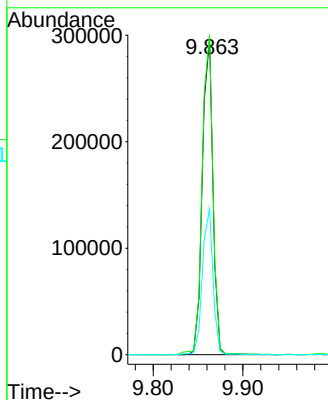
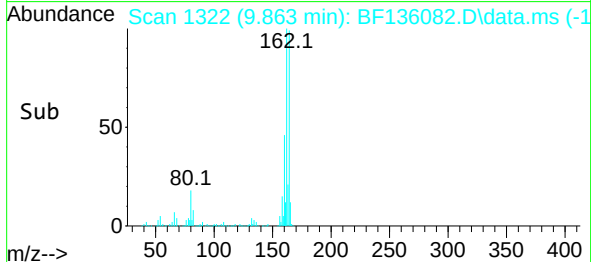
Tgt Ion:164 Resp: 24254
Ion Ratio Lower Upper
164 100
162 101.2 80.1 120.1
160 46.0 34.8 52.2

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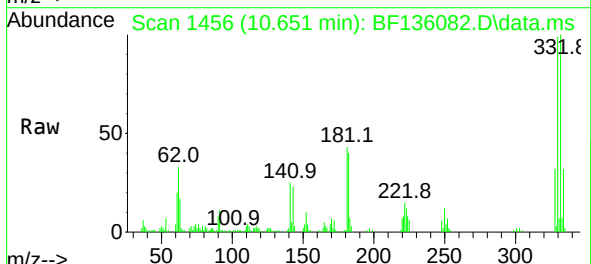
Reviewed By :Yogesh
Patel

11/02/2023
Supervised By :mohammad
ahmed

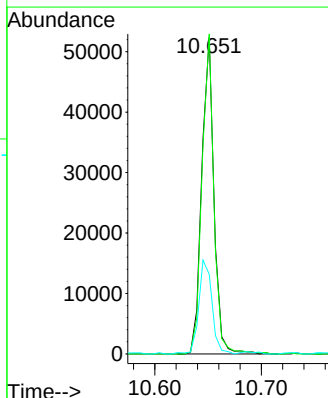
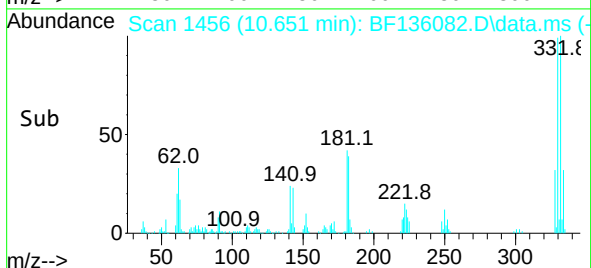
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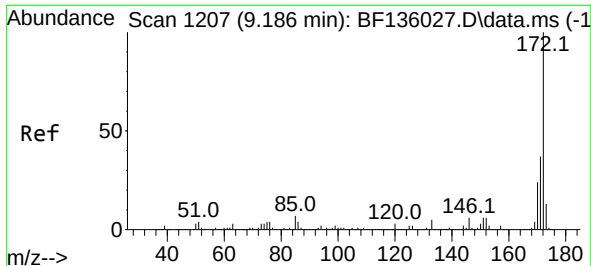


#42
2,4,6-Tribromophenol
Concen: 16.174 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58



Tgt Ion:330 Resp: 41871
Ion Ratio Lower Upper
330 100
332 98.0 76.9 115.3
141 32.0 23.2 34.8





#45

2-Fluorobiphenyl

Concen: 14.554 ng

RT: 9.181 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136082.D

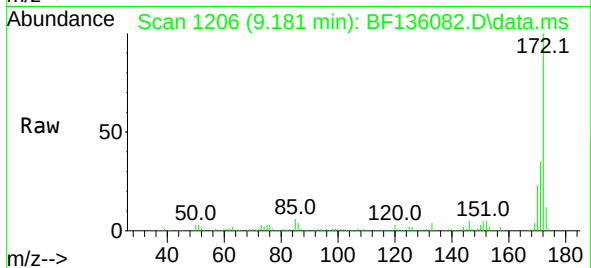
Acq: 01 Nov 2023 17:58

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion:172 Resp: 22144

Ion Ratio Lower Upper

172 100

171 34.9 29.4 44.0

170 22.7 19.3 28.9

Manual Integrations

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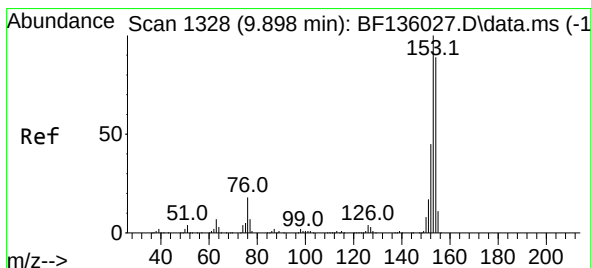
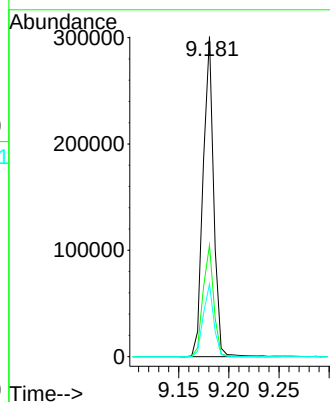
Reviewed By :Yogesh

Patel

11/02/2023

Supervised By :mohammad
ahmed

11/02/2023



#52

Acenaphthene

Concen: 4.697 ng

RT: 9.892 min Scan# 1327

Delta R.T. -0.006 min

Lab File: BF136082.D

Acq: 01 Nov 2023 17:58

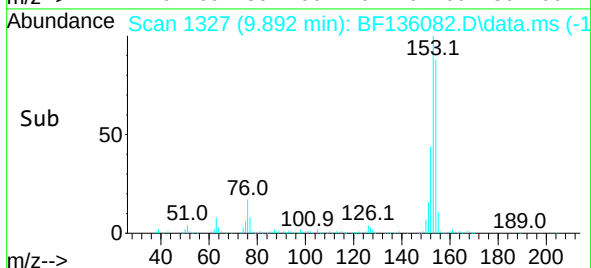
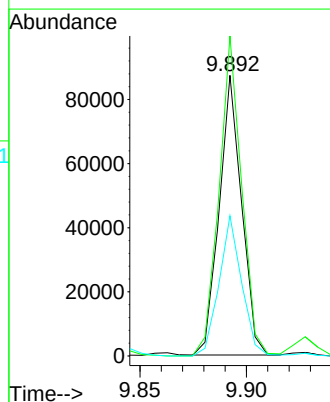
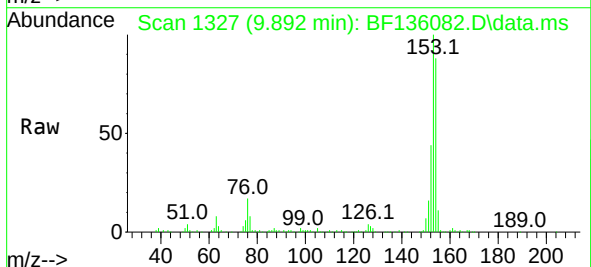
Tgt Ion:154 Resp: 63490

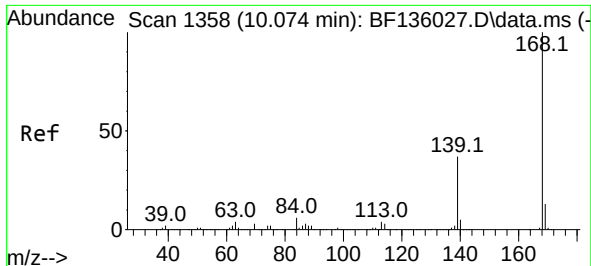
Ion Ratio Lower Upper

154 100

153 114.0 89.9 134.9

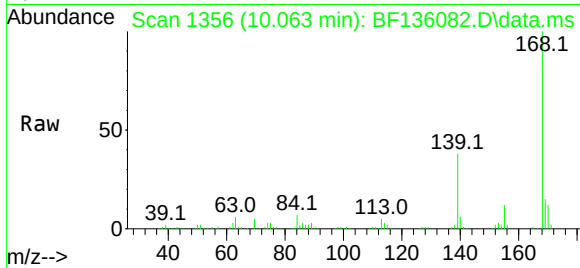
152 49.9 40.2 60.2





#55
Dibenzenofuran
Concen: 3.713 ng
RT: 10.063 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Instrument :
BNA_F
ClientSampleId :
WC-1DL



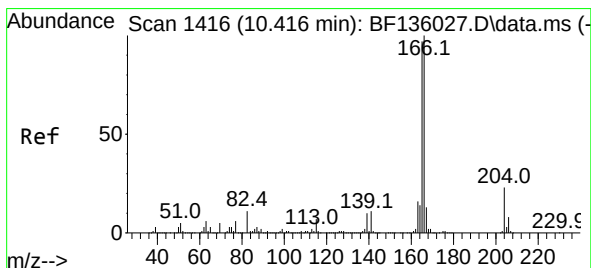
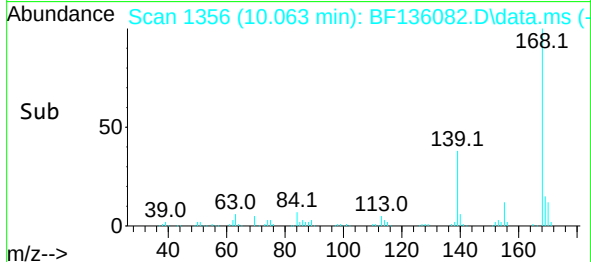
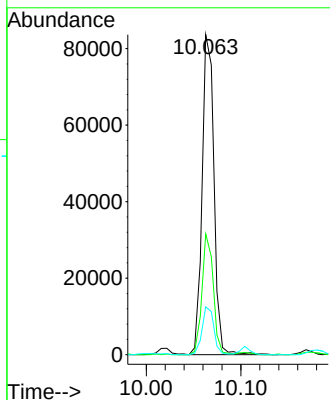
Tgt Ion:168 Resp: 7319
Ion Ratio Lower Upper
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139 37.8 29.4 44.0
169 14.9 10.5 15.7

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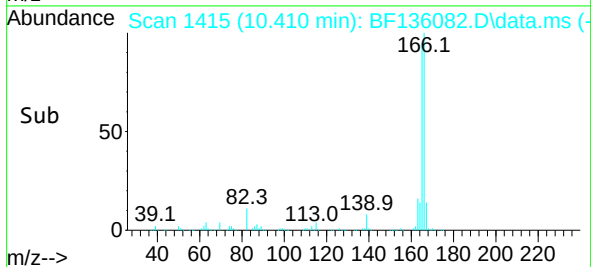
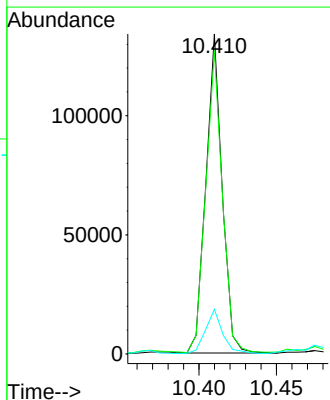
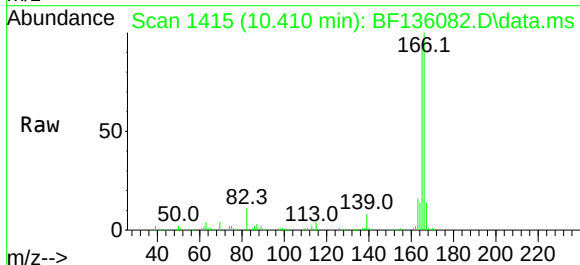
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Supervised By :mohammad
ahmed

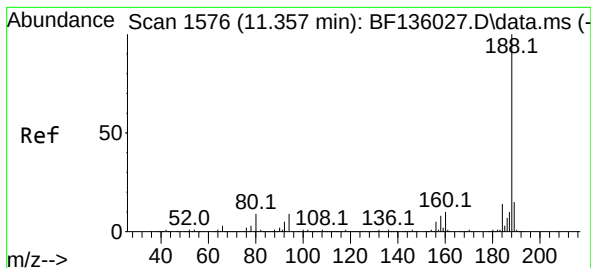
11/02/2023



#58
Fluorene
Concen: 6.612 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

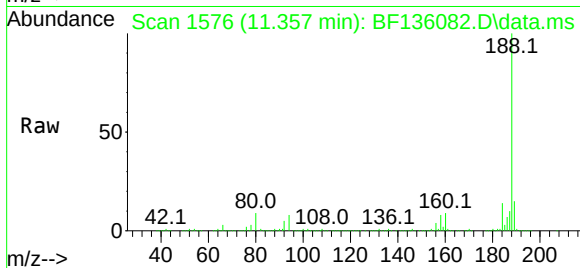
Tgt Ion:166 Resp: 97585
Ion Ratio Lower Upper
166 100
165 94.8 77.7 116.5
167 14.0 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Instrument :
BNA_F
ClientSampleId :
WC-1DL



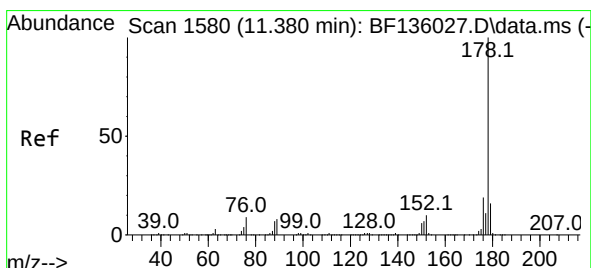
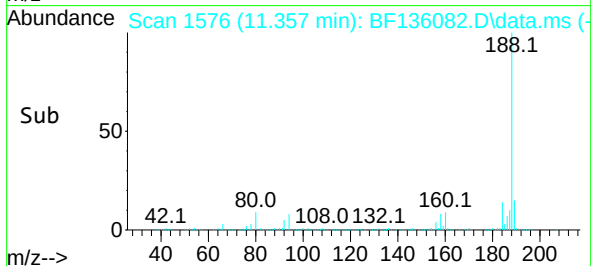
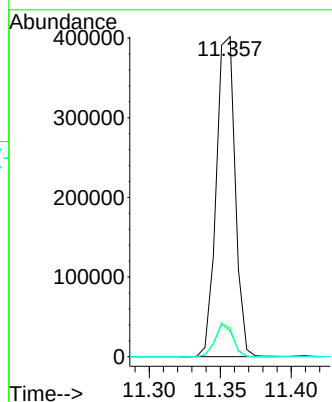
Tgt Ion:188 Resp: 371160
Ion Ratio Lower Upper
188 100
94 8.1 7.2 10.8
80 8.9 7.4 11.0

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Reviewed By :Yogesh
Patel

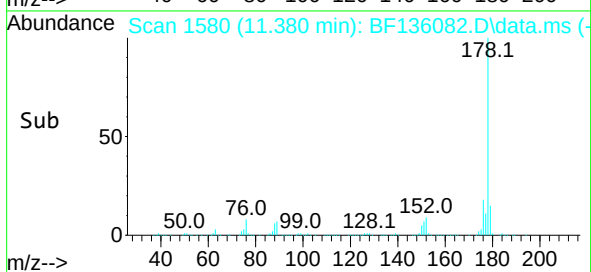
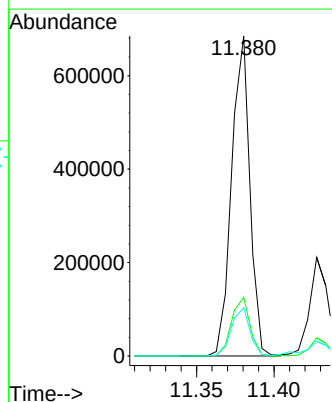
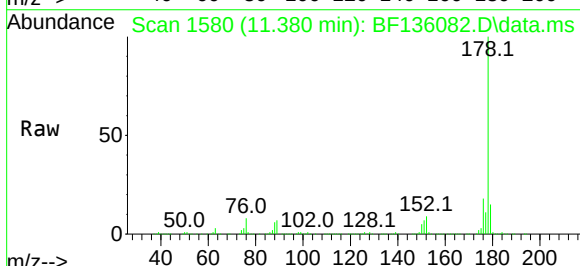
11/02/2023
Supervised By :mohammad
ahmed

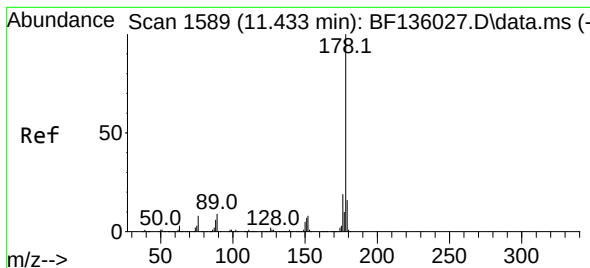
11/02/2023



#71
Phenanthrene
Concen: 29.990 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Tgt Ion:178 Resp: 560456
Ion Ratio Lower Upper
178 100
176 18.3 15.5 23.3
179 15.1 12.9 19.3





#72

Anthracene

Concen: 8.695 ng

RT: 11.427 min Scan# 1588

Delta R.T. -0.006 min

Lab File: BF136082.D

Acq: 01 Nov 2023 17:58

Instrument :

BNA_F

ClientSampleId :

WC-1DL

Tgt Ion:178 Resp: 16650

Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

179 14.7 12.6 18.8

Manual Integrations

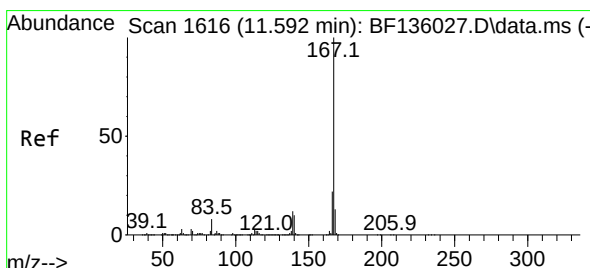
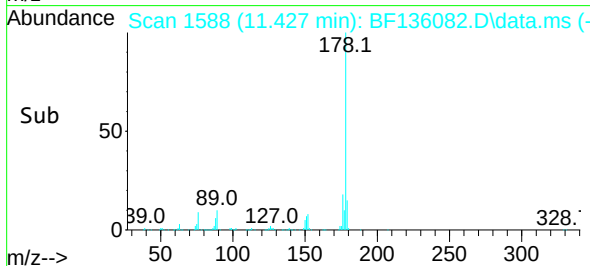
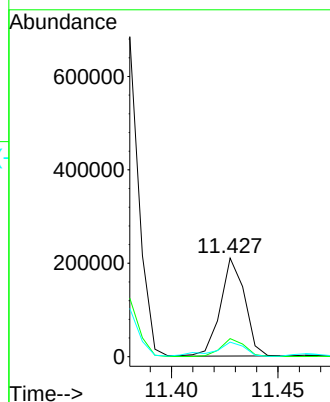
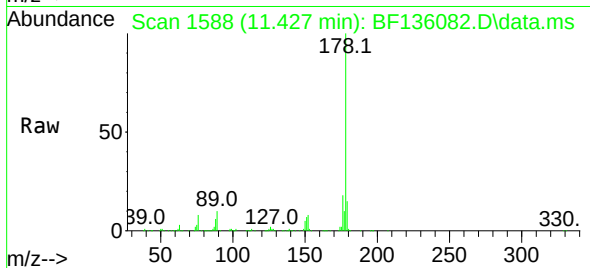
APPROVED

Reviewed By :Yogesh
Patel

11/02/2023

Supervised By :mohammad
ahmed

11/02/2023



#73

Carbazole

Concen: 2.679 ng

RT: 11.586 min Scan# 1615

Delta R.T. -0.006 min

Lab File: BF136082.D

Acq: 01 Nov 2023 17:58

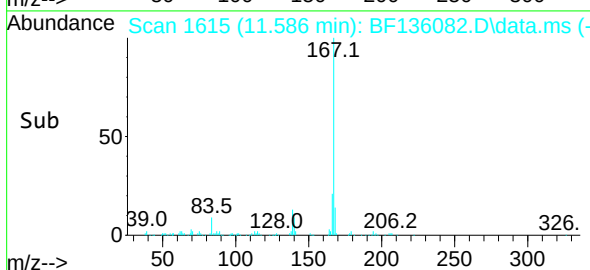
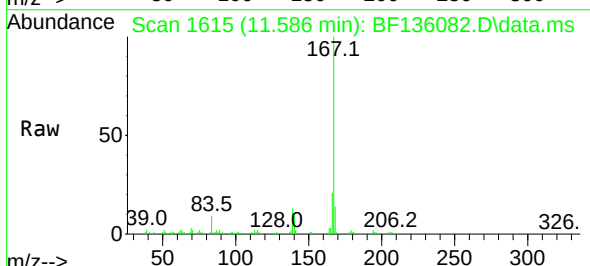
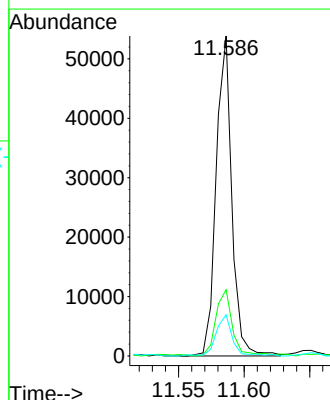
Tgt Ion:167 Resp: 44583

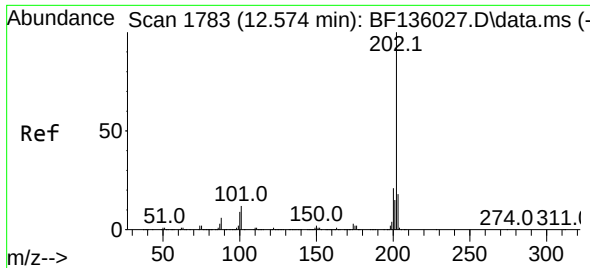
Ion Ratio Lower Upper

167 100

166 20.7 17.2 25.8

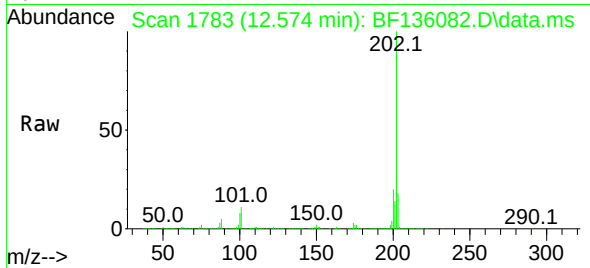
139 12.9 9.9 14.9





#75
Fluoranthene
Concen: 25.570 ng
RT: 12.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Instrument :
BNA_F
ClientSampleId :
WC-1DL



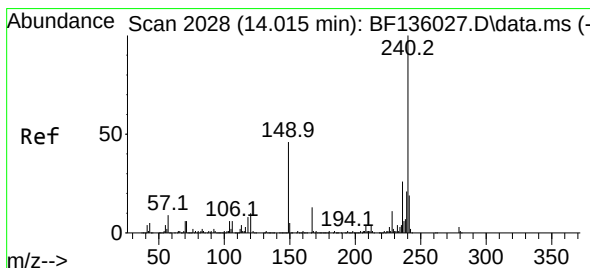
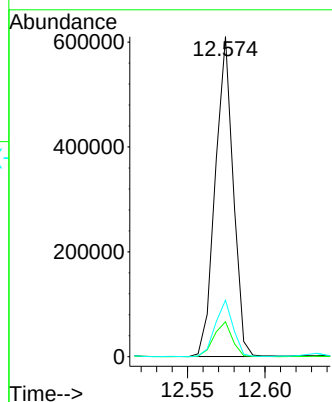
Tgt Ion:202 Resp: 490911
Ion Ratio Lower Upper
202 100
101 10.9 0.0 31.8
203 17.7 0.0 37.9

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Patel

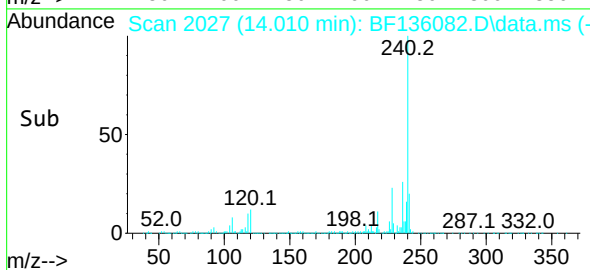
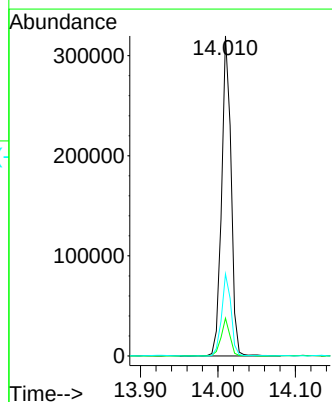
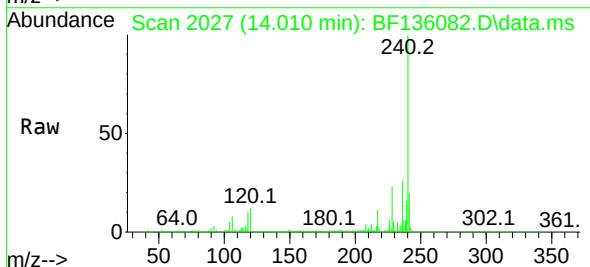
11/02/2023
Supervised By :mohammad
ahmed

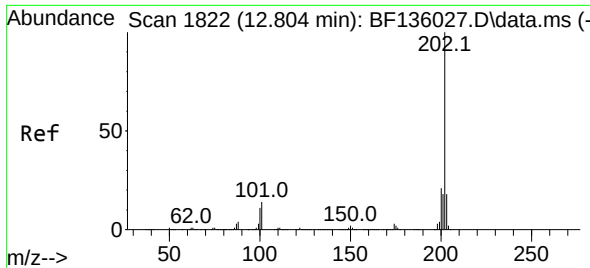
11/02/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

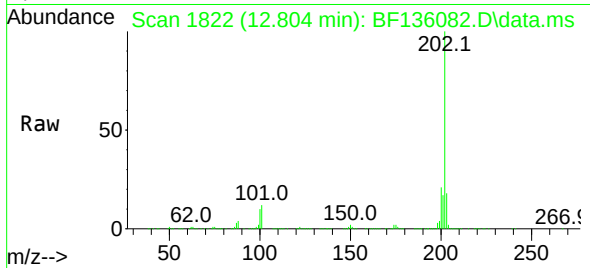
Tgt Ion:240 Resp: 271004
Ion Ratio Lower Upper
240 100
120 11.8 7.6 11.4#
236 25.6 20.6 31.0





#78
Pyrene
Concen: 16.739 ng
RT: 12.804 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Instrument :
BNA_F
ClientSampleId :
WC-1DL



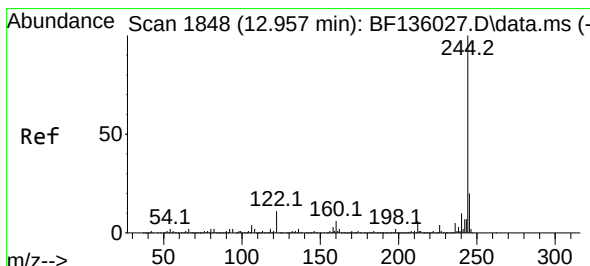
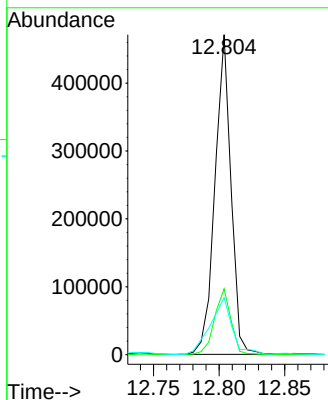
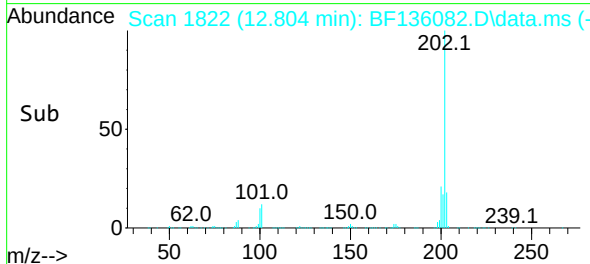
Tgt Ion:202 Resp: 399950
Ion Ratio Lower Upper
202 100
200 20.6 17.0 25.4
203 17.8 14.4 21.6

Manual Integrations
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Reviewed By :Yogesh
Patel

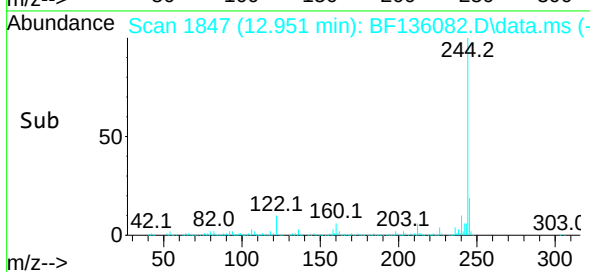
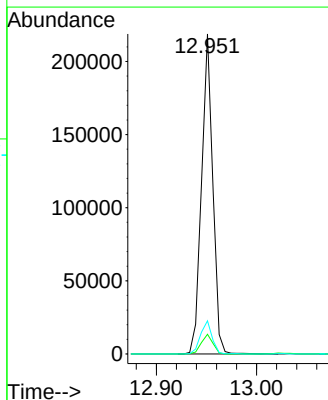
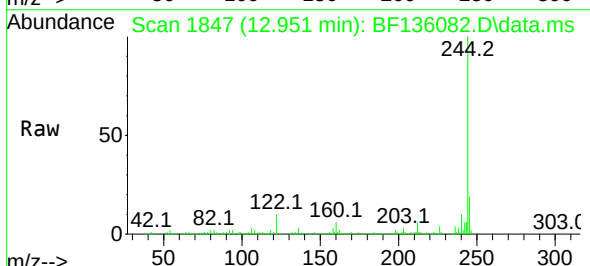
11/02/2023
Supervised By :mohammad
ahmed

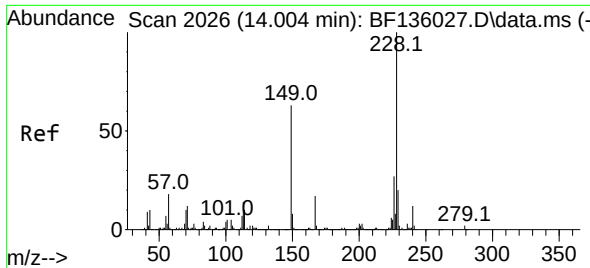
11/02/2023



#79
Terphenyl-d14
Concen: 9.826 ng
RT: 12.951 min Scan# 1847
Delta R.T. -0.006 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

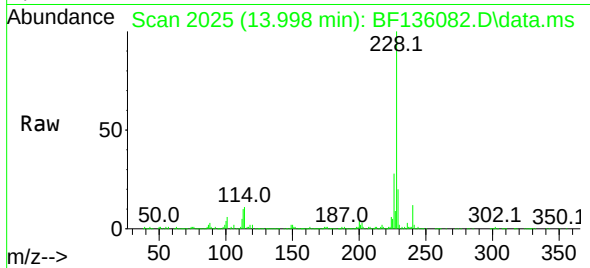
Tgt Ion:244 Resp: 171350
Ion Ratio Lower Upper
244 100
212 6.1 5.1 7.7
122 10.4 8.6 12.8





#81
Benzo(a)anthracene
Concen: 12.334 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.006 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Instrument :
BNA_F
ClientSampleId :
WC-1DL



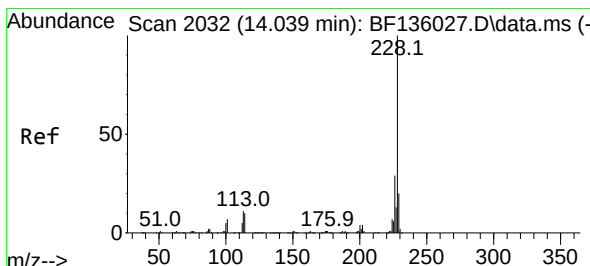
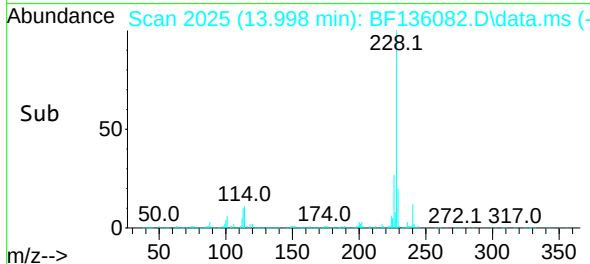
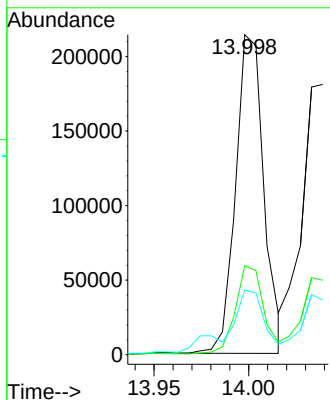
Tgt Ion:228 Resp: 221280
Ion Ratio Lower Upper
228 100
226 27.8 21.5 32.3
229 20.2 15.8 23.6

Manual Integrations
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Reviewed By :Yogesh
Patel

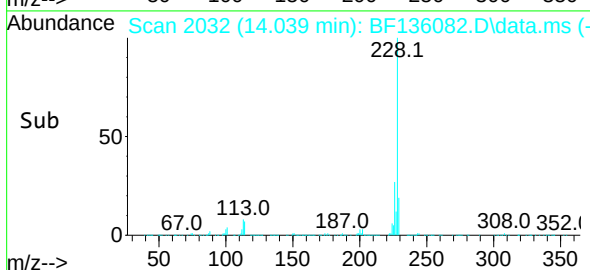
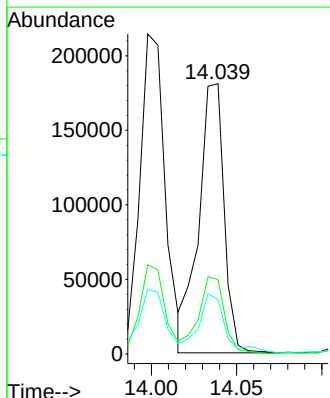
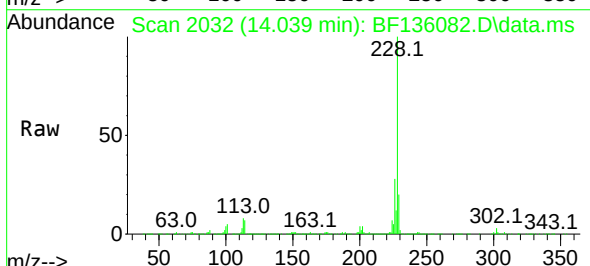
11/02/2023
Supervised By :mohammad
ahmed

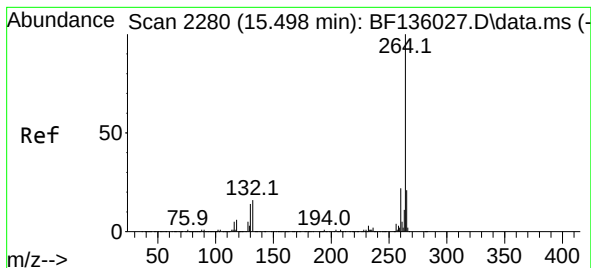
11/02/2023



#83
Chrysene
Concen: 10.582 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.000 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Tgt Ion:228 Resp: 186977
Ion Ratio Lower Upper
228 100
226 27.6 23.5 35.3
229 20.2 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136082.D

Acq: 01 Nov 2023 17:58

Instrument :

BNA_F

ClientSampleId :

WC-1DL

Tgt Ion:264 Resp: 25913

Ion	Ratio	Lower	Upper
264	100		
260	22.0	17.9	26.9
265	22.2	16.8	25.2

Manual Integrations

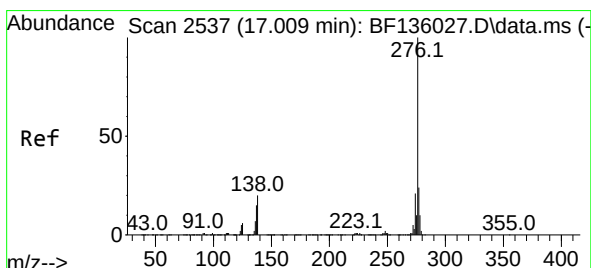
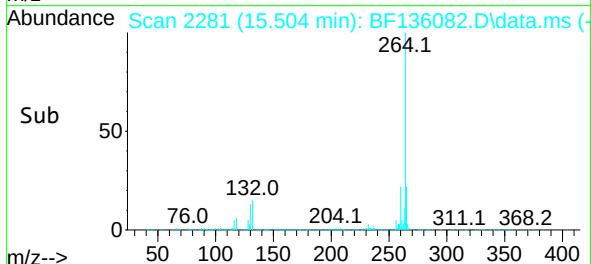
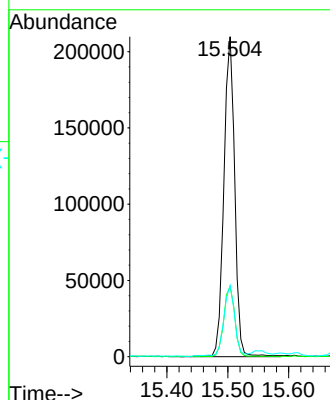
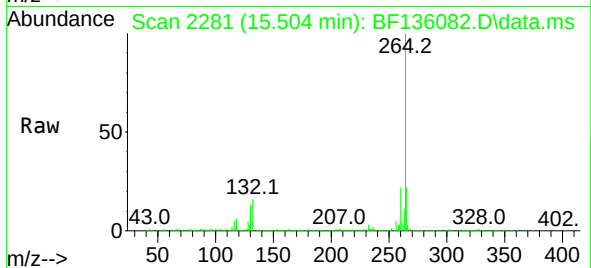
APPROVED

Reviewed By :Yogesh
Patel

11/02/2023

Supervised By :mohammad
ahmed

11/02/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.585 ng

RT: 17.009 min Scan# 2537

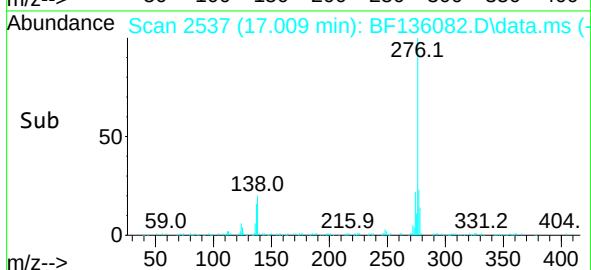
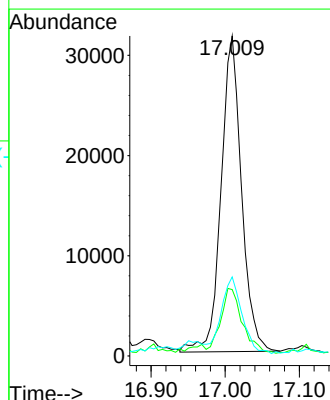
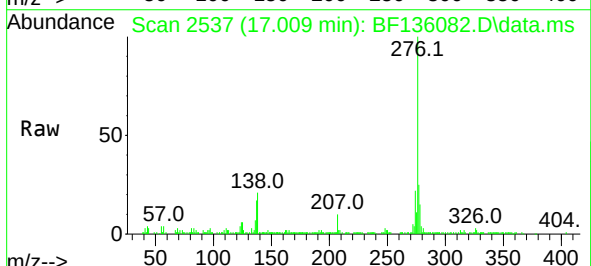
Delta R.T. 0.000 min

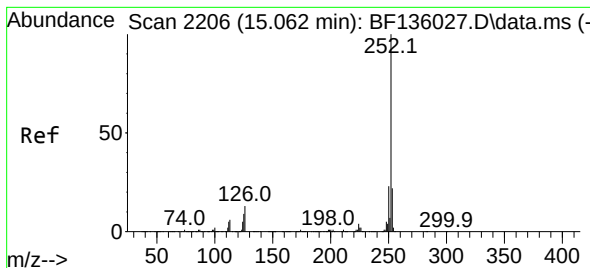
Lab File: BF136082.D

Acq: 01 Nov 2023 17:58

Tgt Ion:276 Resp: 60717

Ion	Ratio	Lower	Upper
276	100		
138	23.9	20.4	30.6
277	24.3	20.2	30.2





#88

Benzo(b)fluoranthene

Concen: 13.286 ng m

RT: 15.063 min Scan# 2206

Delta R.T. 0.000 min

Lab File: BF136082.D

Acq: 01 Nov 2023 17:58

Instrument :

BNA_F

ClientSampleId :

WC-1DL

Tgt Ion:252 Resp: 20371
 Ion Ratio Lower Upper
 252 100
 253 22.4 17.7 26.5
 125 10.5 7.5 11.3

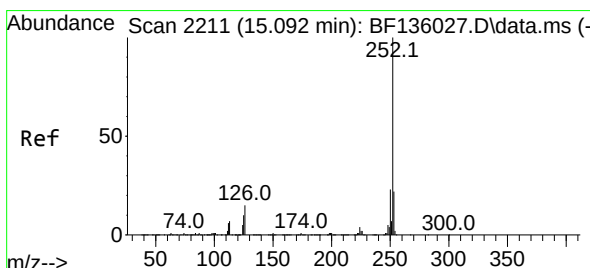
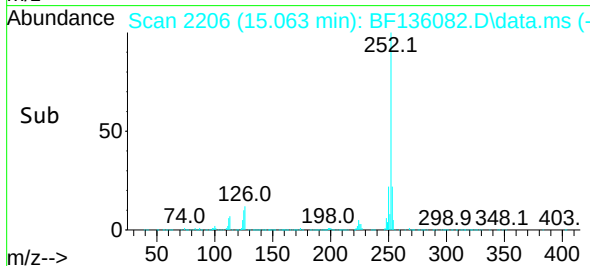
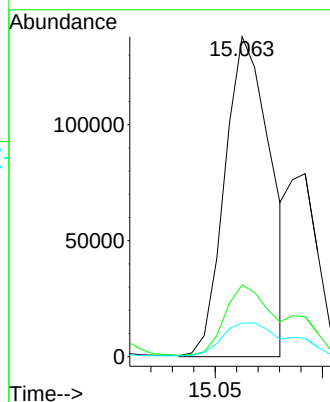
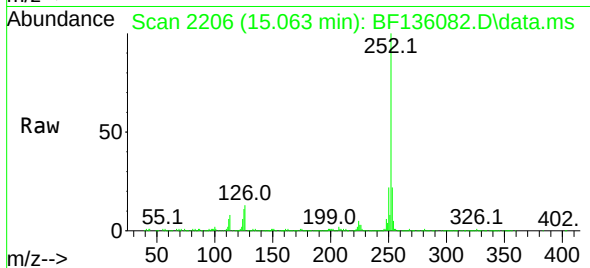
Manual Integrations
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Reviewed By :Yogesh
 Patel

11/02/2023

Supervised By :mohammad
 ahmed

11/02/2023



#89

Benzo(k)fluoranthene

Concen: 5.131 ng m

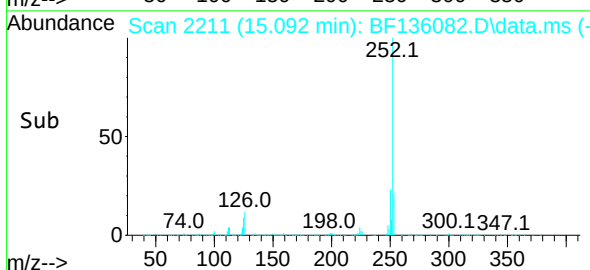
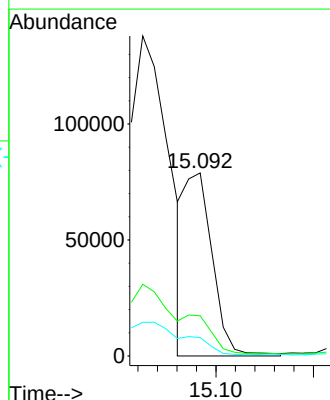
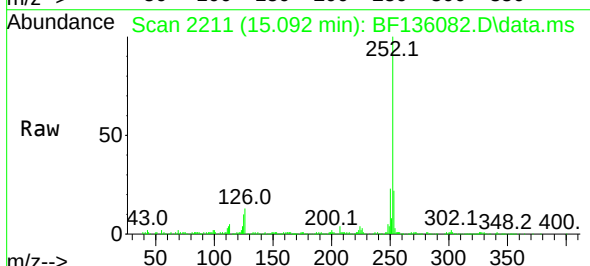
RT: 15.092 min Scan# 2211

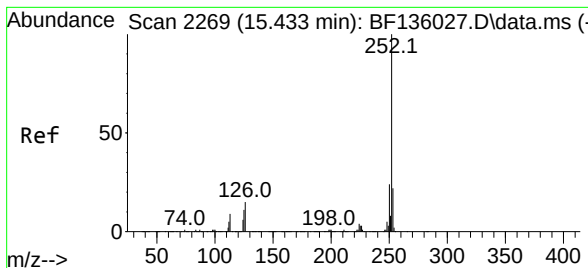
Delta R.T. 0.000 min

Lab File: BF136082.D

Acq: 01 Nov 2023 17:58

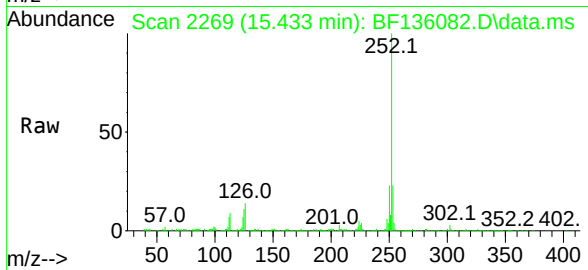
Tgt Ion:252 Resp: 77849
 Ion Ratio Lower Upper
 252 100
 253 22.0 17.4 26.0
 125 10.0 8.0 12.0





#90
Benzo(a)pyrene
Concen: 9.770 ng
RT: 15.433 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Instrument :
BNA_F
ClientSampleId :
WC-1DL



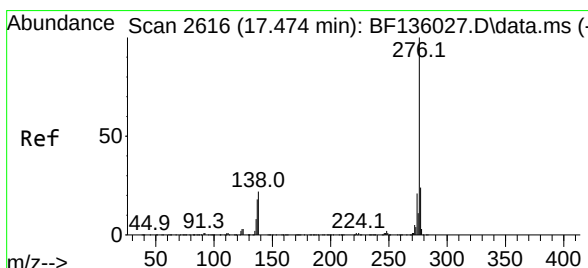
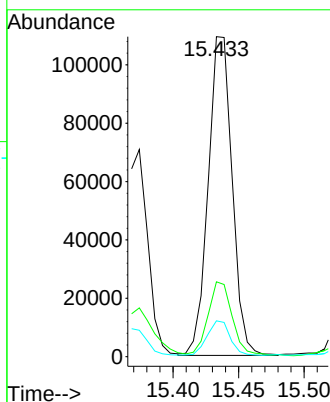
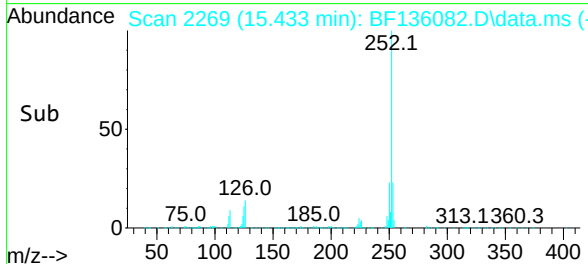
Tgt Ion:252 Resp: 13920
Ion Ratio Lower Upper
252 100
253 23.4 17.3 25.9
125 11.2 9.0 13.6

Manual Integrations
APPROVED

Reviewed By :Yogesh
Patel

11/02/2023
Supervised By :mohammad
ahmed

11/02/2023



#92
Benzo(g,h,i)perylene
Concen: 5.996 ng
RT: 17.462 min Scan# 2614
Delta R.T. -0.012 min
Lab File: BF136082.D
Acq: 01 Nov 2023 17:58

Tgt Ion:276 Resp: 52116
Ion Ratio Lower Upper
276 100
277 25.0 19.0 28.4
138 21.2 17.4 26.2

