

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120123\
 Data File : BF136367.D
 Acq On : 02 Dec 2023 08:23
 Operator : CG\JU
 Sample : 05504-02
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 281RE

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/04/2023
 Supervised By :mohammad ahmed 12/05/2023

Quant Time: Dec 03 07:23:29 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	99307	20.000	ng	0.00
21) Naphthalene-d8	8.080	136	342495	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	134387	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	243941	20.000	ng	0.00
76) Chrysene-d12	13.986	240	226781	20.000	ng	0.00
86) Perylene-d12	15.468	264	183397	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.445	112	635777	89.108	ng	0.00
7) Phenol-d6	6.439	99	715344	80.184	ng	0.00
23) Nitrobenzene-d5	7.363	82	423461	65.335	ng	-0.01
42) 2,4,6-Tribromophenol	10.627	330	135935	82.736	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	631843	60.055	ng	-0.01
79) Terphenyl-d14	12.927	244	648569	32.989	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.104	128	133821	6.951	ng	# 96
37) 2-Methylnaphthalene	8.792	142	88853	7.358	ng	88
38) 1-Methylnaphthalene	8.892	142	47677	4.047	ng	87
49) Acenaphthylene	9.698	152	46838	3.566	ng	97
52) Acenaphthene	9.869	154	74044	8.921	ng	92
55) Dibenzofuran	10.045	168	107574	8.710	ng	98
58) Fluorene	10.386	166	133278	13.758	ng	92
71) Phenanthrene	11.357	178	912185	66.531	ng	98
72) Anthracene	11.404	178	168974	12.290	ng	96
73) Carbazole	11.563	167	64437	5.510	ng	98
75) Fluoranthene	12.551	202	1242917	89.299	ng	93
78) Pyrene	12.780	202	1040272	41.885	ng	97
81) Benzo(a)anthracene	13.974	228	399504	23.717	ng	94
83) Chrysene	14.009	228	449927m	27.664	ng	
87) Indeno(1,2,3-cd)pyrene	16.968	276	90211	8.892	ng	99
88) Benzo(b)fluoranthene	15.033	252	378143m	29.389	ng	
89) Benzo(k)fluoranthene	15.062	252	136063m	11.134	ng	
90) Benzo(a)pyrene	15.404	252	181275	17.234	ng	96
91) Dibenzo(a,h)anthracene	16.986	278	21737	4.577	ng	96
92) Benzo(g,h,i)perylene	17.427	276	81239	8.968	ng	97

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

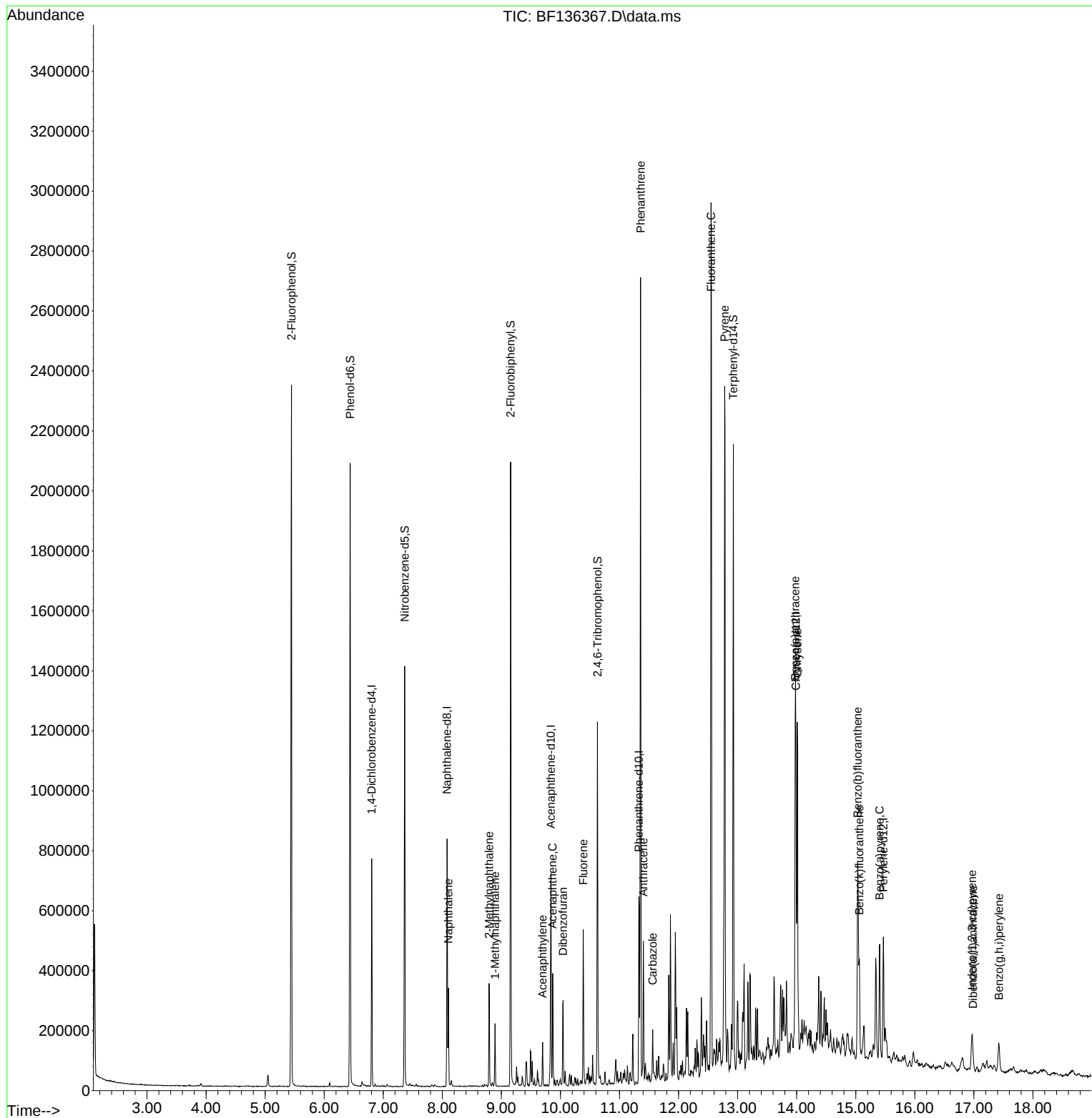
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120123\
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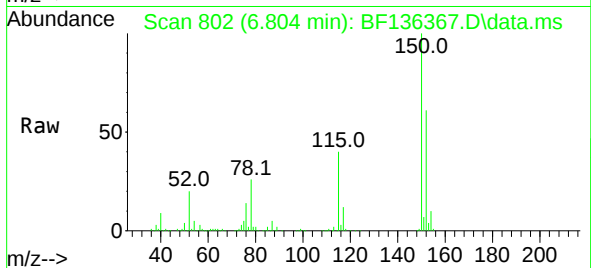
Reviewed By :Yogesh Patel 12/04/2023
Supervised By :mohammad ahmed 12/05/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 803
Delta R.T. -0.006 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

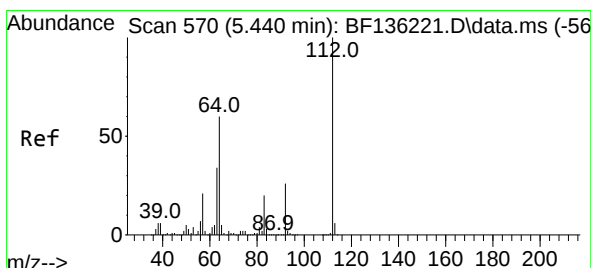
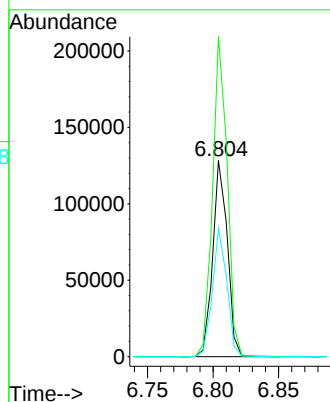
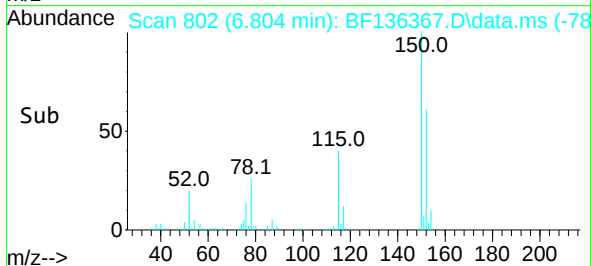
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion:152 Resp: 99307
Ion Ratio Lower Upper
152 100
150 163.2 137.8 206.8
115 65.4 52.7 79.1

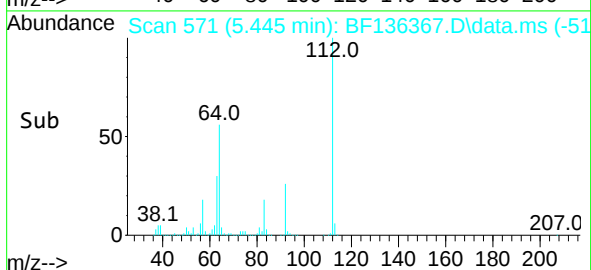
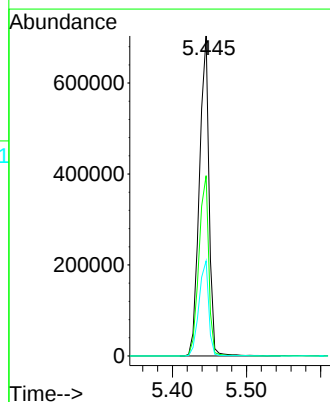
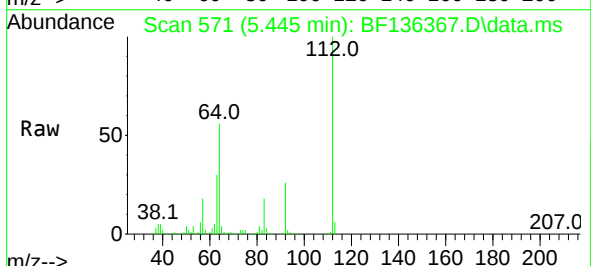
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#5
2-Fluorophenol
Concen: 89.108 ng
RT: 5.445 min Scan# 571
Delta R.T. 0.006 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

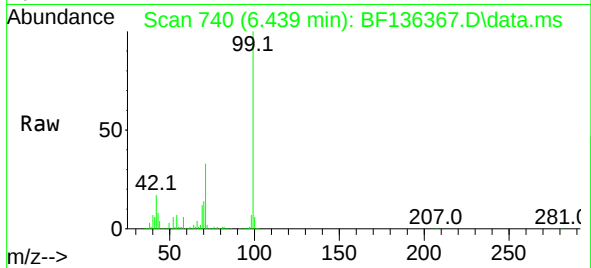
Tgt Ion:112 Resp: 635777
Ion Ratio Lower Upper
112 100
64 56.4 48.2 72.4
63 29.7 27.0 40.6





#7
Phenol-d6
Concen: 80.184 ng
RT: 6.439 min Scan# 741
Delta R.T. -0.006 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

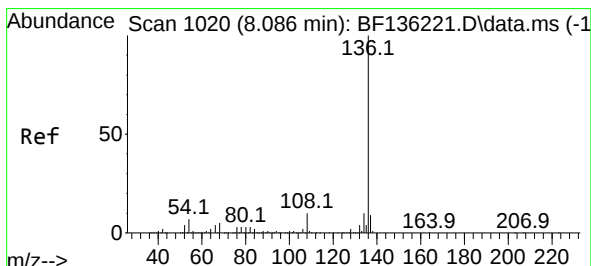
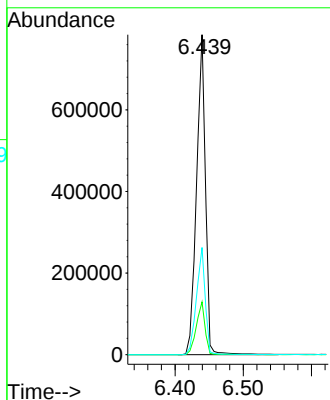
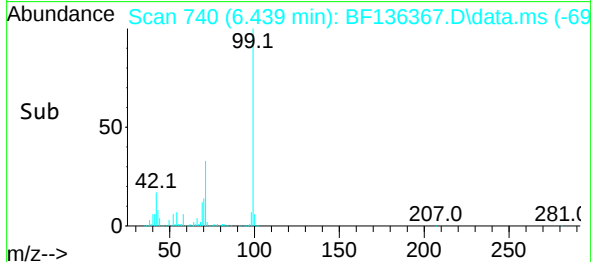
Instrument :
BNA_F
ClientSampleId :
281RE



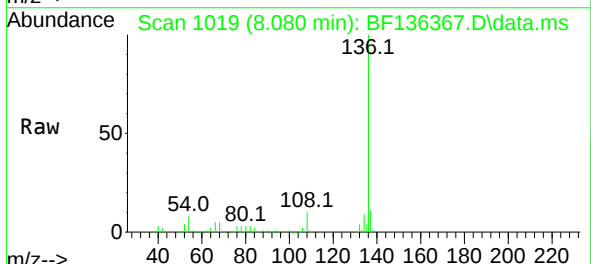
Tgt Ion: 99 Resp: 715344
Ion Ratio Lower Upper
99 100
42 16.5 15.0 22.6
71 33.5 28.9 43.3

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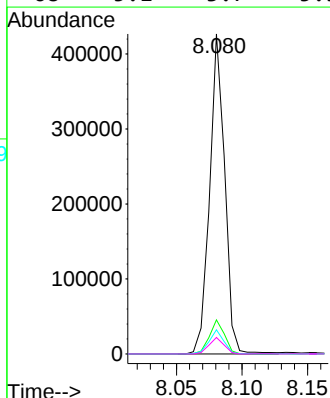
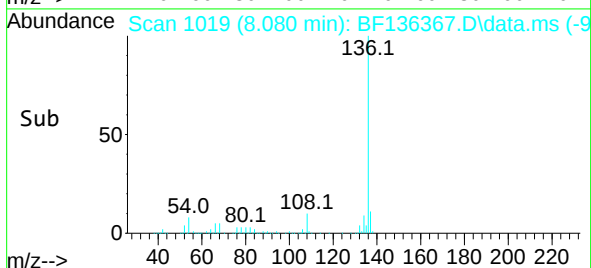
Reviewed By :Yogesh Patel 12/04/2023
Supervised By :mohammad ahmed 12/05/2023

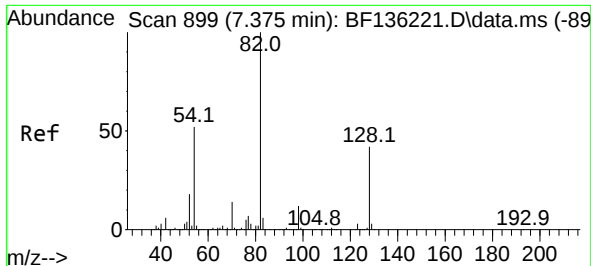


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.080 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23



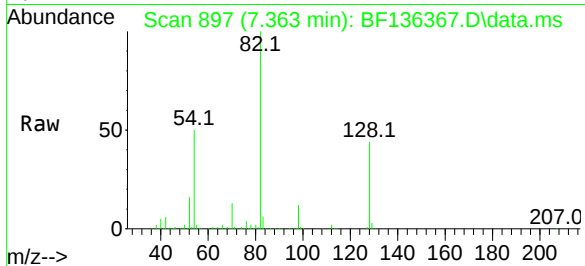
Tgt Ion:136 Resp: 342495
Ion Ratio Lower Upper
136 100
137 10.6 7.4 11.2
54 7.5 5.5 8.3
68 5.1 3.7 5.5





#23
Nitrobenzene-d5
Concen: 65.335 ng
RT: 7.363 min Scan# 899
Delta R.T. -0.012 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

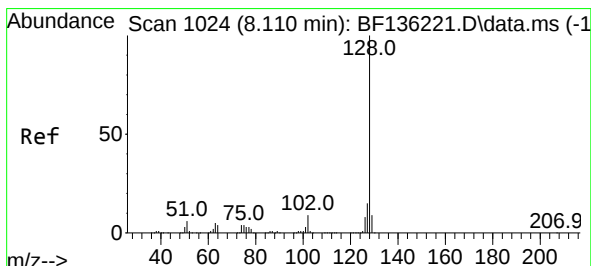
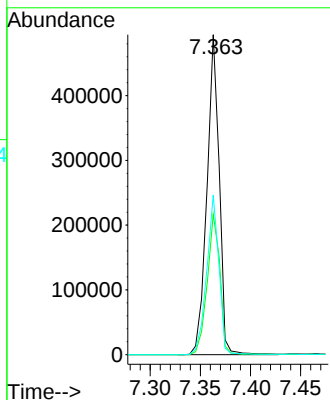
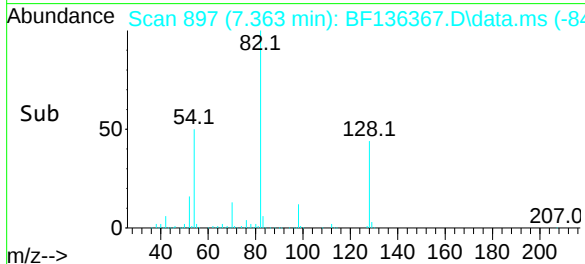
Instrument :
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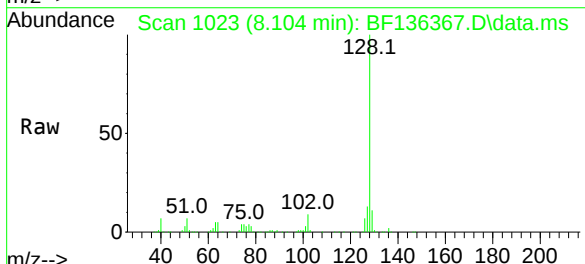
Tgt Ion: 82 Resp: 42346
Ion Ratio Lower Upper
82 100
128 43.8 33.4 50.2
54 49.8 41.7 62.5

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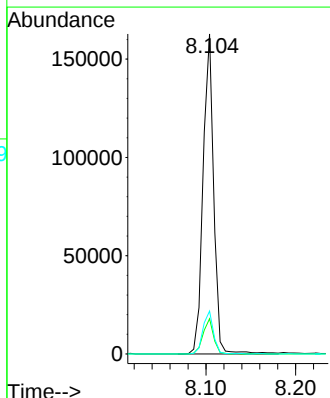
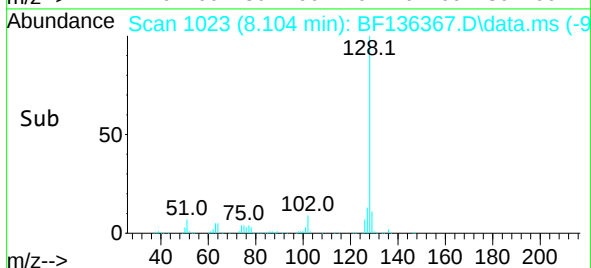
Reviewed By :Yogesh Patel 12/04/2023
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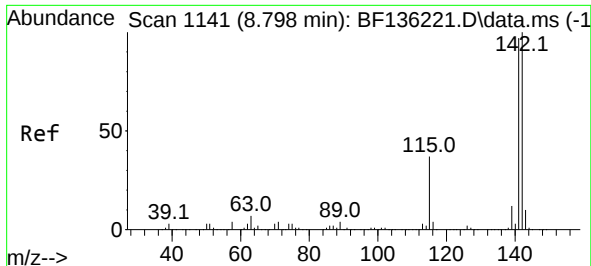


#31
Naphthalene
Concen: 6.951 ng
RT: 8.104 min Scan# 1023
Delta R.T. -0.006 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23



Tgt Ion:128 Resp: 133821
Ion Ratio Lower Upper
128 100
129 11.0 7.3 10.9#
127 13.4 11.8 17.6





#37

2-Methylnaphthalene

Concen: 7.358 ng

RT: 8.792 min Scan# 1141

Delta R.T. -0.006 min

Lab File: BF136367.D

Acq: 02 Dec 2023 08:23

Instrument :

BNA_F

ClientSampleId :

281RE

Tgt Ion:142 Resp: 8885

Ion Ratio Lower Upper

142 100

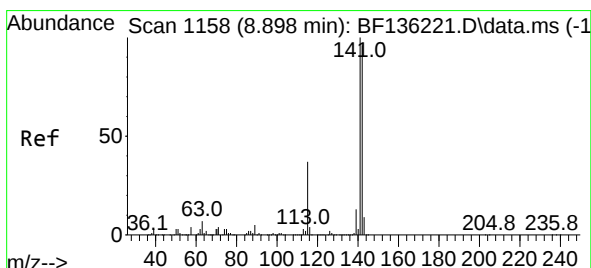
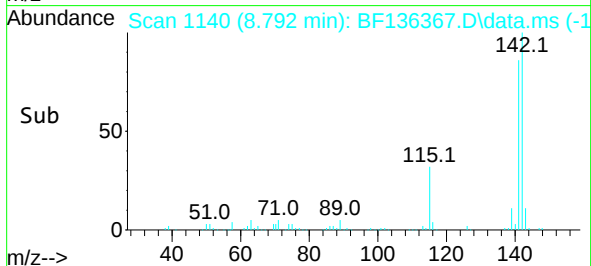
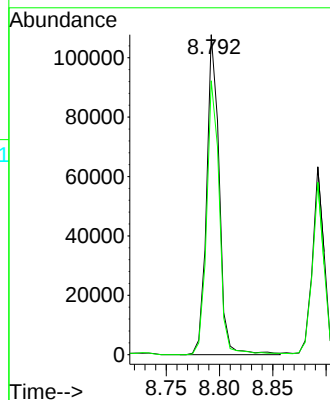
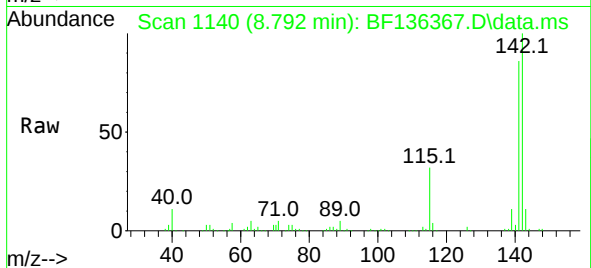
141 85.6 77.8 116.8

Manual Integrations

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#38

1-Methylnaphthalene

Concen: 4.047 ng

RT: 8.892 min Scan# 1157

Delta R.T. -0.006 min

Lab File: BF136367.D

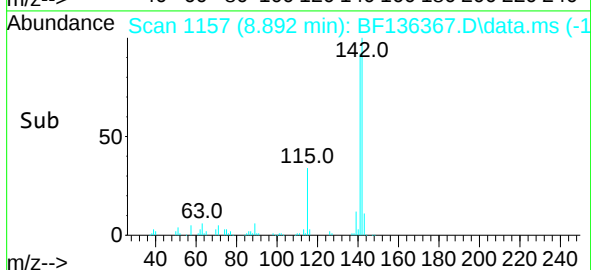
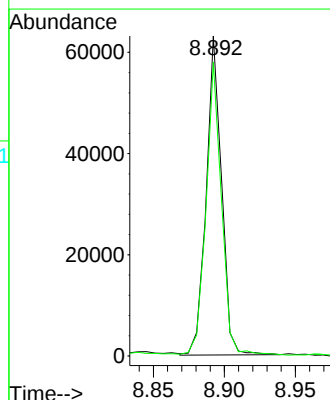
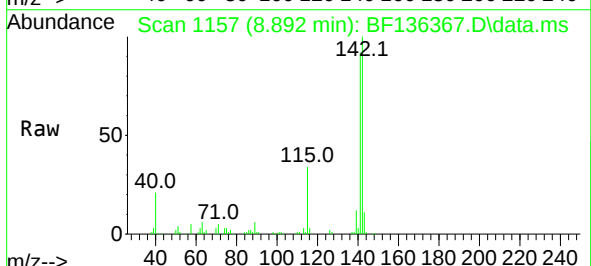
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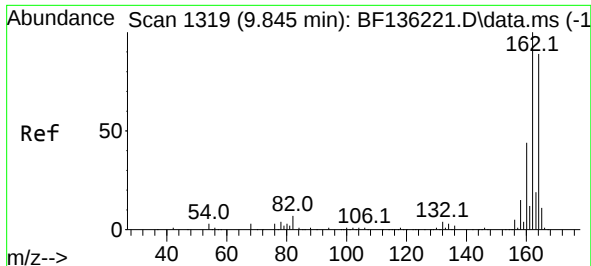
Tgt Ion:142 Resp: 47677

Ion Ratio Lower Upper

142 100

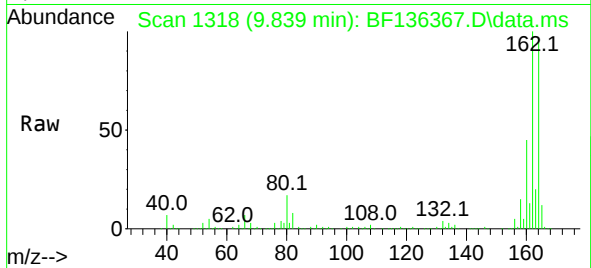
141 91.8 83.8 125.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 1318
Delta R.T. -0.006 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

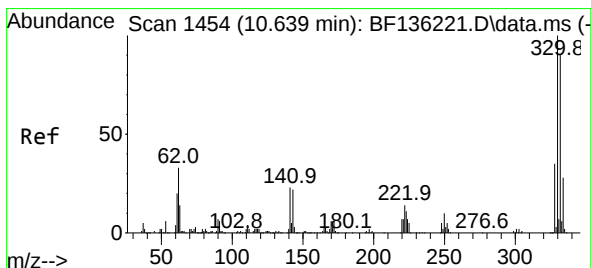
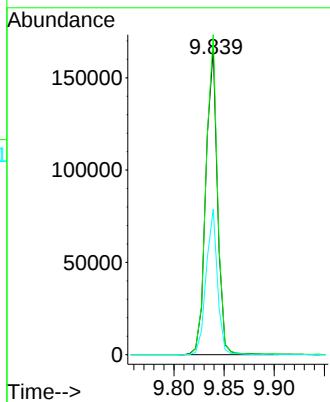
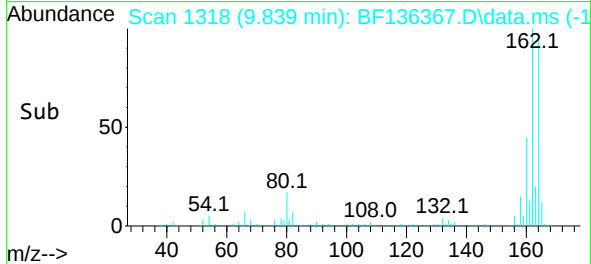
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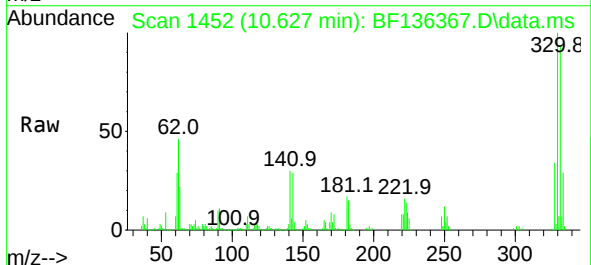
Tgt Ion:164 Resp: 13438
Ion Ratio Lower Upper
164 100
162 104.5 89.5 134.3
160 47.5 39.6 59.4

Manual Integrations
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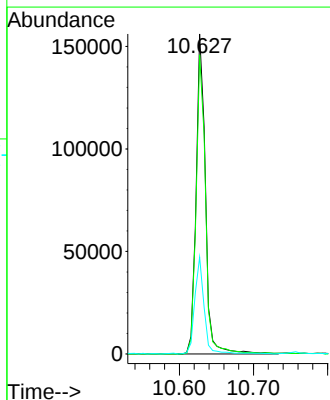
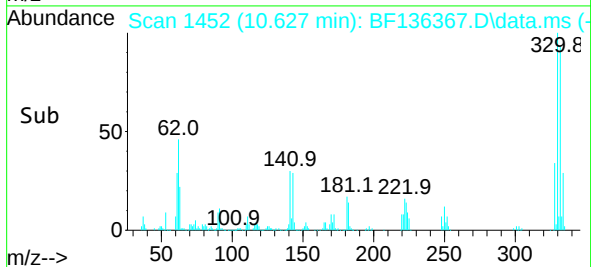
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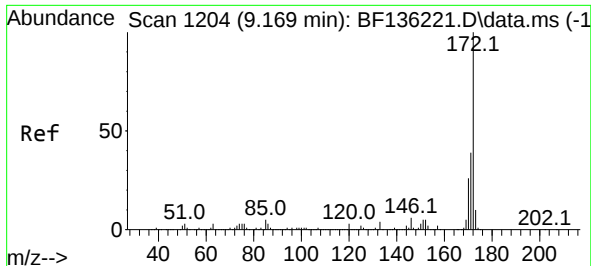


#42
2,4,6-Tribromophenol
Concen: 82.736 ng
RT: 10.627 min Scan# 1452
Delta R.T. -0.012 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23



Tgt Ion:330 Resp: 135935
Ion Ratio Lower Upper
330 100
332 94.1 73.0 109.6
141 30.8 24.2 36.2





#45
2-Fluorobiphenyl
Concen: 60.055 ng
RT: 9.157 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

Instrument :

BNA_F

ClientSampleId :

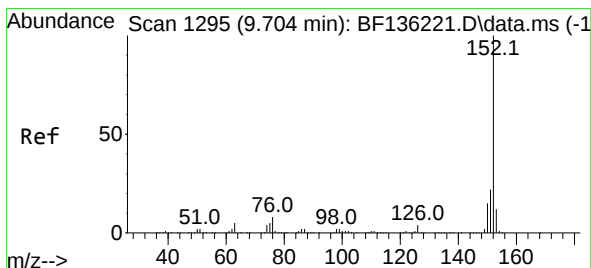
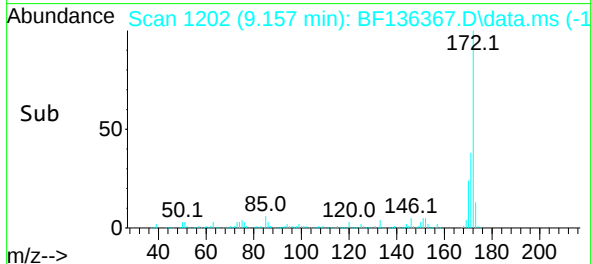
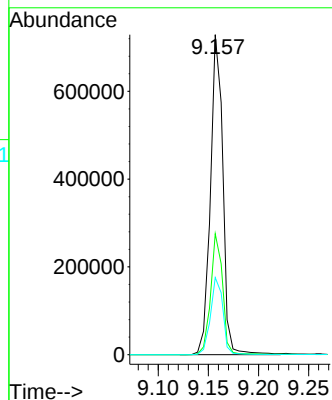
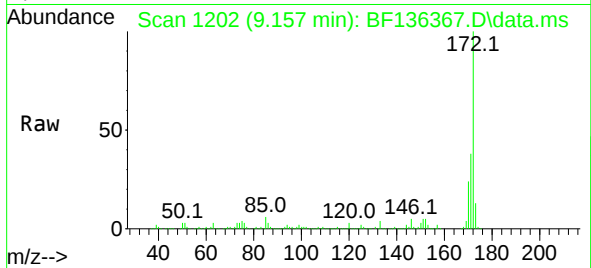
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Tgt Ion:172 Resp: 63184
Ion Ratio Lower Upper
172 100
171 37.8 31.5 47.3
170 24.1 20.8 31.2

Manual Integrations

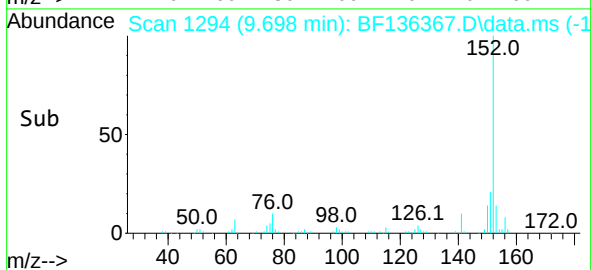
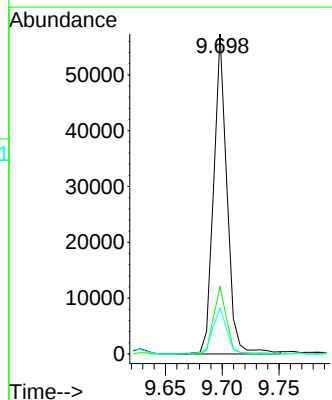
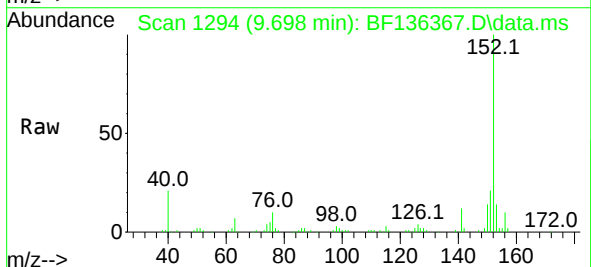
APPROVED

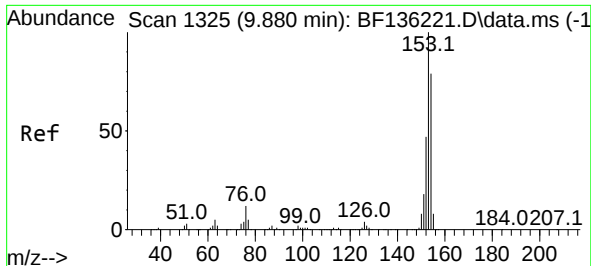
Reviewed By :Yogesh Patel 12/04/2023
Supervised By :mohammad ahmed 12/05/2023



#49
Acenaphthylene
Concen: 3.566 ng
RT: 9.698 min Scan# 1294
Delta R.T. -0.006 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

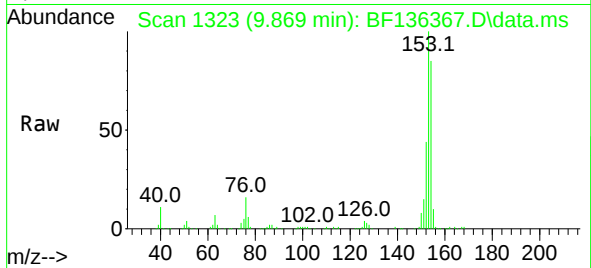
Tgt Ion:152 Resp: 46838
Ion Ratio Lower Upper
152 100
151 21.0 17.5 26.3
153 14.3 9.6 14.4





#52
Acenaphthene
Concen: 8.921 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

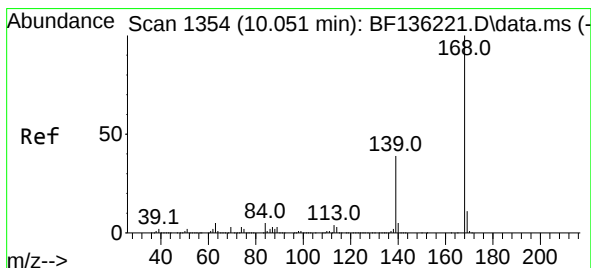
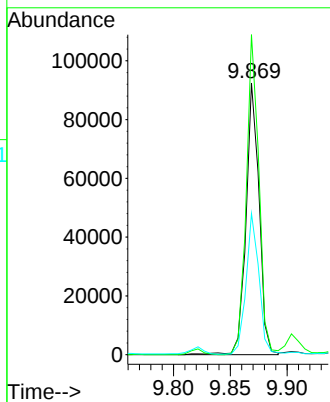
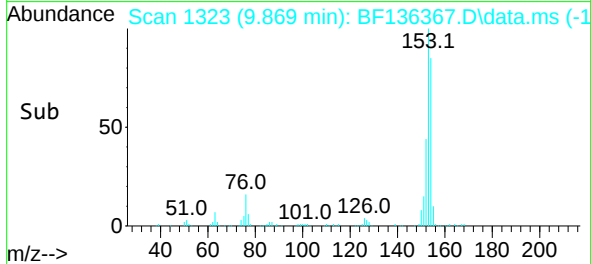
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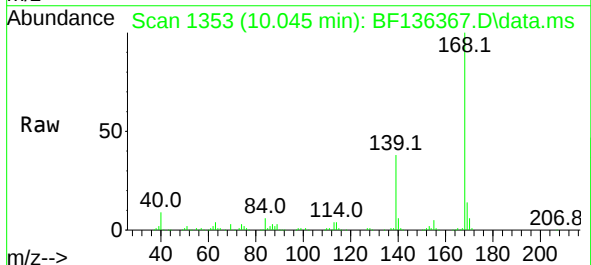
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Ion Ratio Lower Upper
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153 117.8 100.8 151.2
152 51.9 47.0 70.6

Manual Integrations
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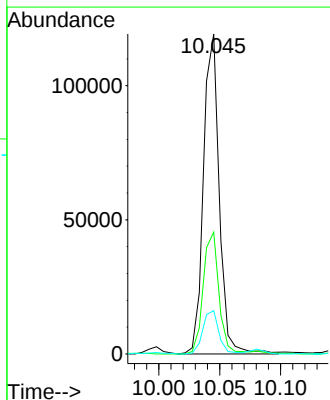
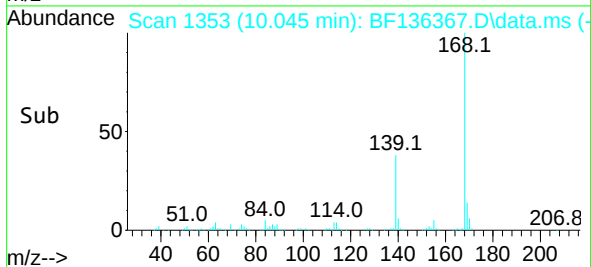
Reviewed By :Yogesh Patel 12/04/2023
Supervised By :mohammad ahmed 12/05/2023

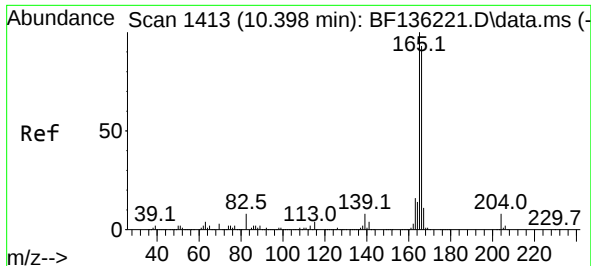


#55
Dibenzofuran
Concen: 8.710 ng
RT: 10.045 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23



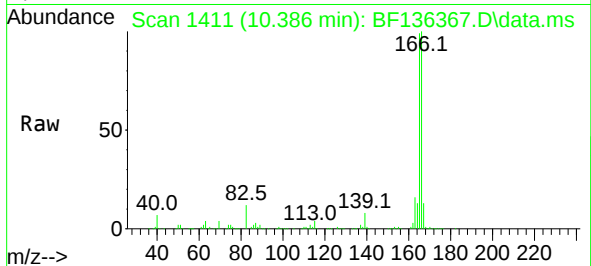
Tgt Ion:168 Resp: 107574
Ion Ratio Lower Upper
168 100
139 38.1 30.9 46.3
169 13.5 9.1 13.7





#58
Fluorene
Concen: 13.758 ng
RT: 10.386 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

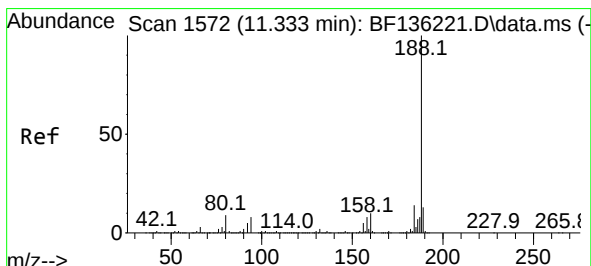
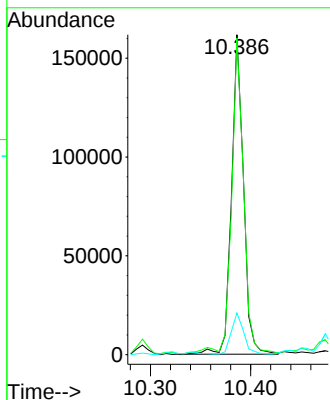
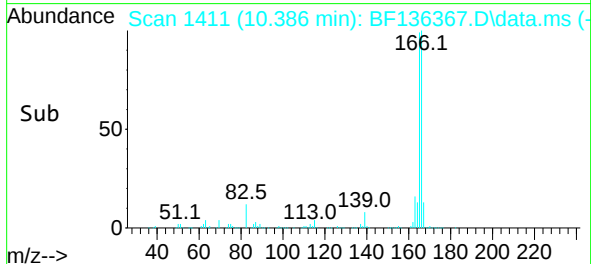
Instrument :
BNA_F
ClientSampleId :
281RE



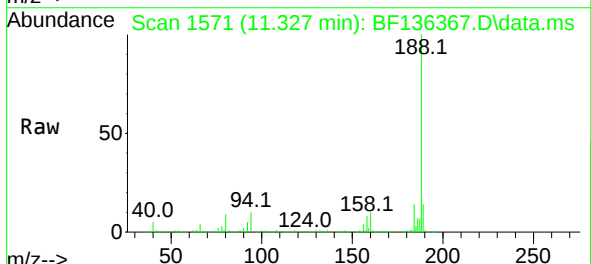
Tgt Ion:166 Resp: 133278
Ion Ratio Lower Upper
166 100
165 98.9 86.2 129.4
167 13.1 9.1 13.7

Manual Integrations
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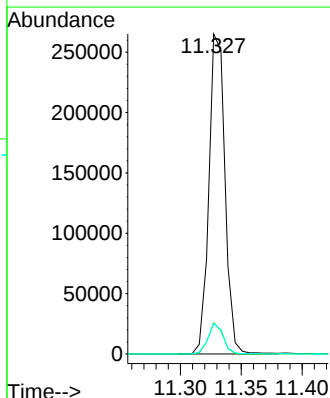
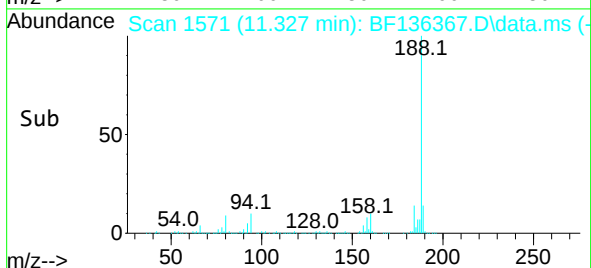
Reviewed By :Yogesh Patel 12/04/2023
Supervised By :mohammad ahmed 12/05/2023

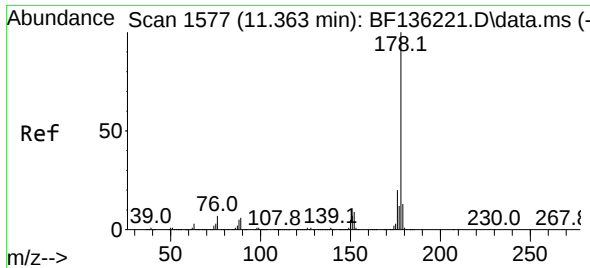


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23



Tgt Ion:188 Resp: 243941
Ion Ratio Lower Upper
188 100
94 9.7 6.7 10.1
80 9.4 7.2 10.8





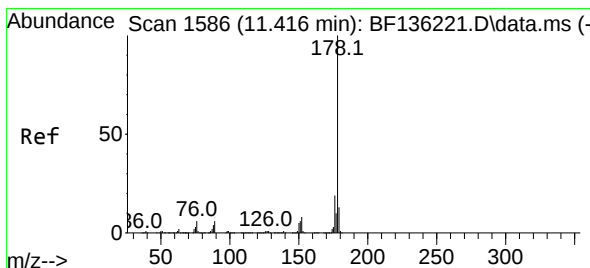
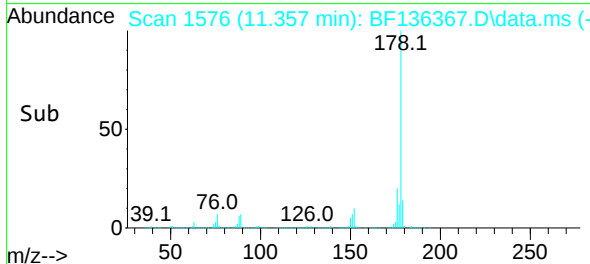
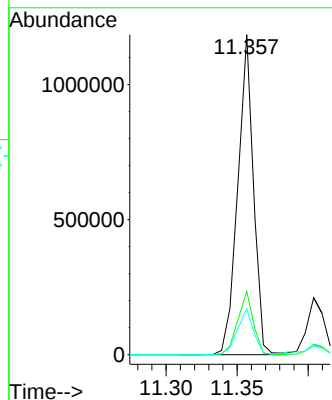
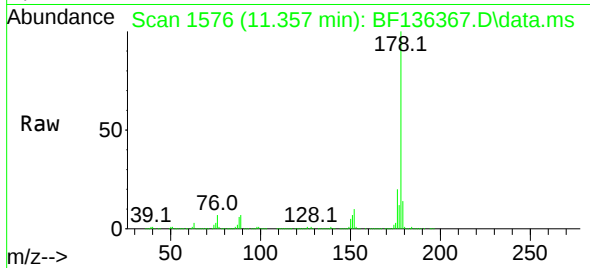
#71
Phenanthrene
Concen: 66.531 ng
RT: 11.357 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

Instrument :
BNA_F
ClientSampleId :
281RE

Tgt Ion:178 Resp: 91218
Ion Ratio Lower Upper
178 100
176 19.8 16.2 24.2
179 14.3 10.3 15.5

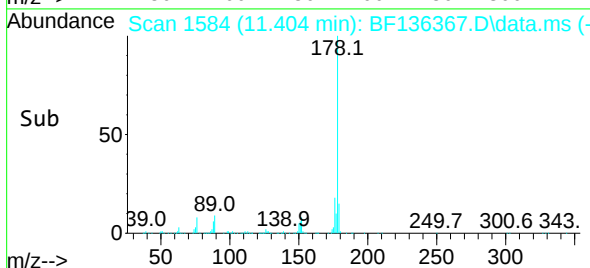
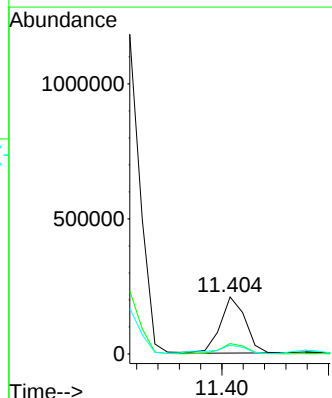
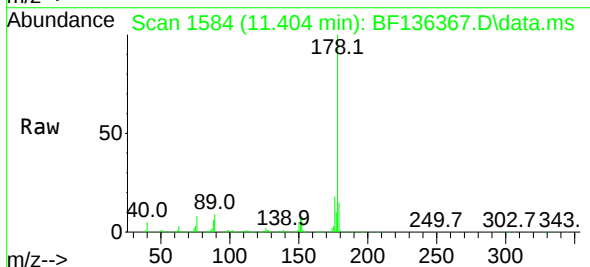
Manual Integrations
APPROVED

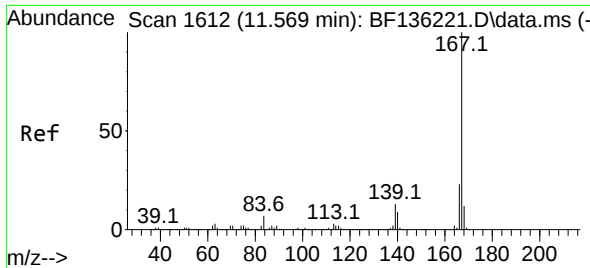
Reviewed By :Yogesh Patel 12/04/2023
Supervised By :mohammad ahmed 12/05/2023



#72
Anthracene
Concen: 12.290 ng
RT: 11.404 min Scan# 1584
Delta R.T. -0.012 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

Tgt Ion:178 Resp: 168974
Ion Ratio Lower Upper
178 100
176 18.2 15.5 23.3
179 15.4 10.5 15.7





#73
 Carbazole
 Concen: 5.510 ng
 RT: 11.563 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF136367.D
 Acq: 02 Dec 2023 08:23

Instrument :

BNA_F

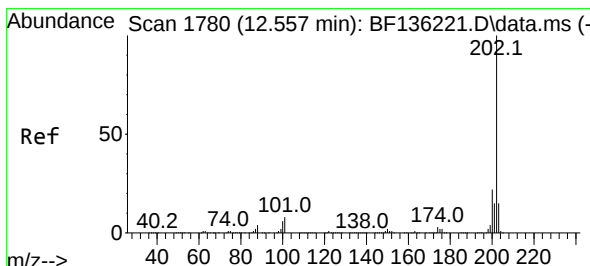
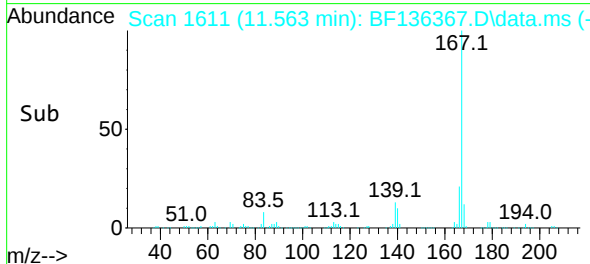
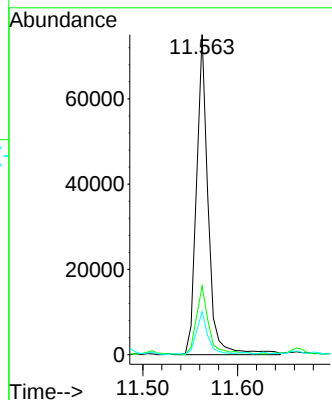
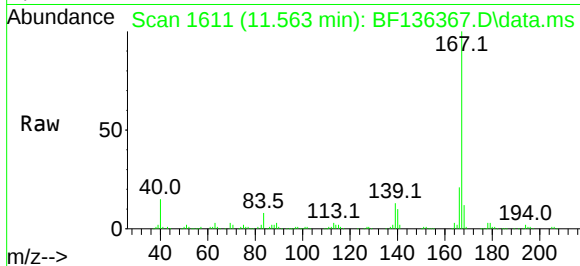
ClientSampleId :

281RE

Tgt Ion:167 Resp: 6443
 Ion Ratio Lower Upper
 167 100
 166 21.4 18.4 27.6
 139 13.5 10.5 15.7

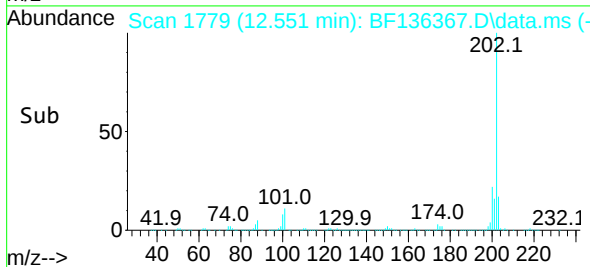
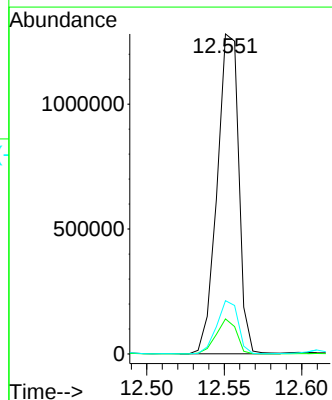
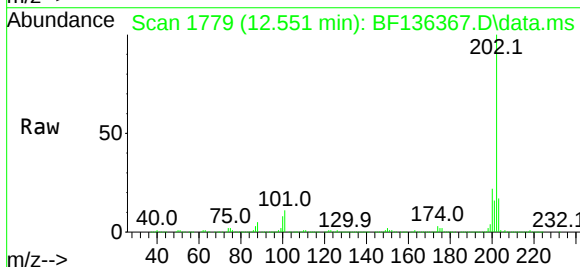
Manual Integrations
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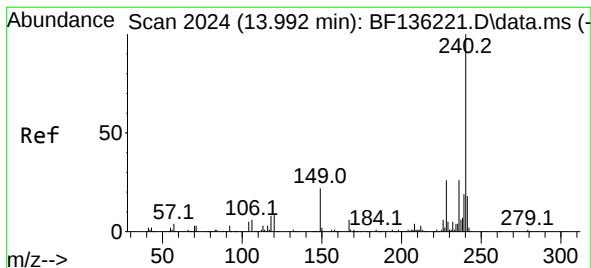
Reviewed By :Yogesh Patel 12/04/2023
 Supervised By :mohammad ahmed 12/05/2023



#75
 Fluoranthene
 Concen: 89.299 ng
 RT: 12.551 min Scan# 1779
 Delta R.T. -0.006 min
 Lab File: BF136367.D
 Acq: 02 Dec 2023 08:23

Tgt Ion:202 Resp: 1242917
 Ion Ratio Lower Upper
 202 100
 101 11.0 0.0 27.8
 203 16.6 0.0 34.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.986 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136367.D

Acq: 02 Dec 2023 08:23

Instrument :

BNA_F

ClientSampleId :

281RE

Tgt Ion:240 Resp: 22678

Ion Ratio Lower Upper

240 100

120 10.3 7.4 11.2

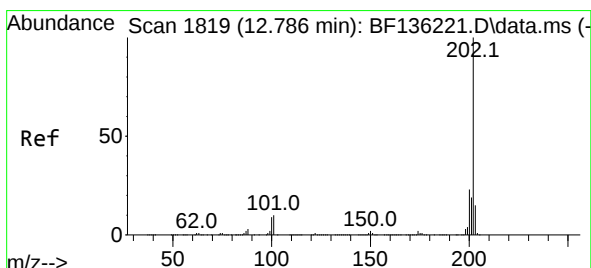
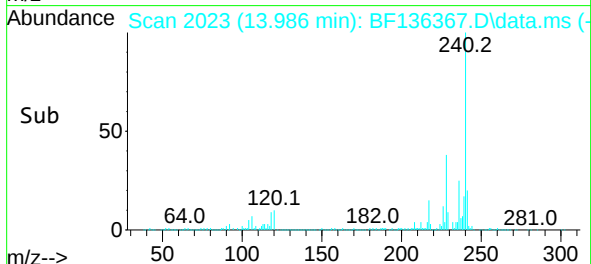
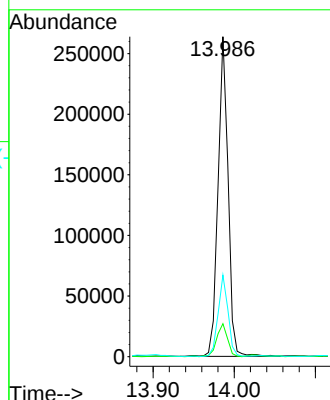
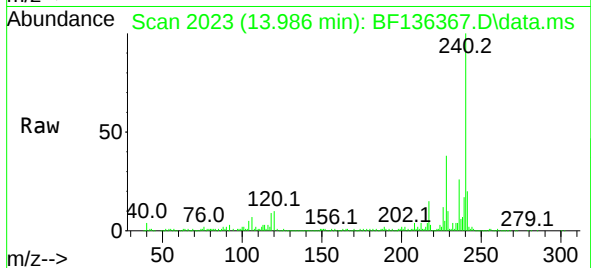
236 25.5 21.1 31.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/04/2023

Supervised By :mohammad ahmed 12/05/2023



#78

Pyrene

Concen: 41.885 ng

RT: 12.780 min Scan# 1818

Delta R.T. -0.006 min

Lab File: BF136367.D

Acq: 02 Dec 2023 08:23

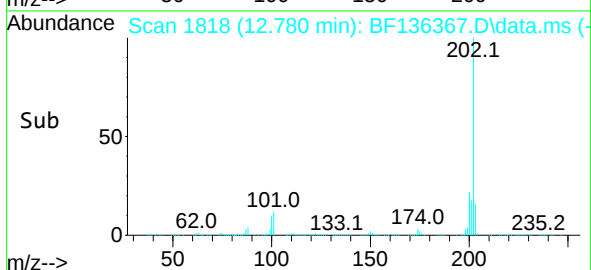
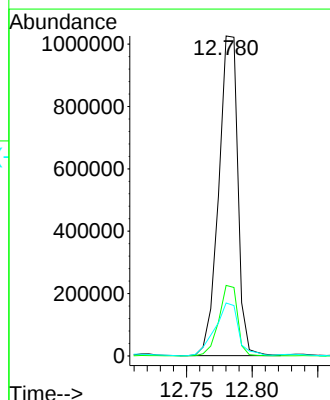
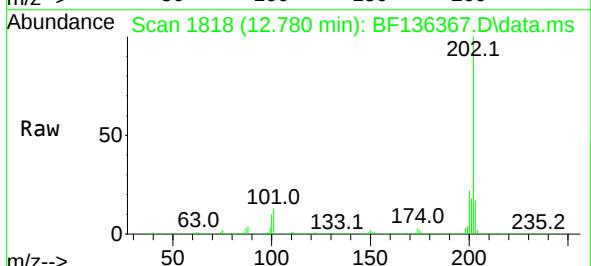
Tgt Ion:202 Resp: 1040272

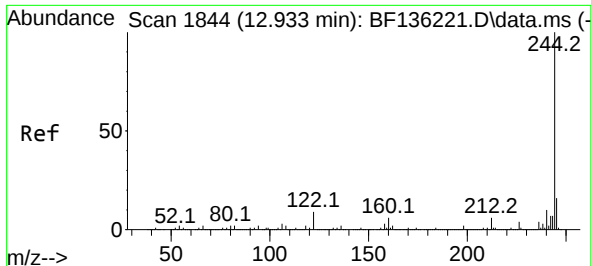
Ion Ratio Lower Upper

202 100

200 22.1 18.4 27.6

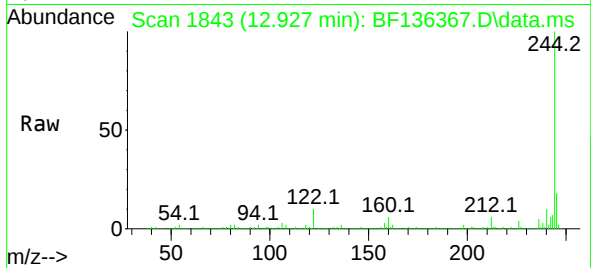
203 16.6 11.8 17.6





#79
 Terphenyl-d14
 Concen: 32.989 ng
 RT: 12.927 min Scan# 1843
 Delta R.T. -0.006 min
 Lab File: BF136367.D
 Acq: 02 Dec 2023 08:23

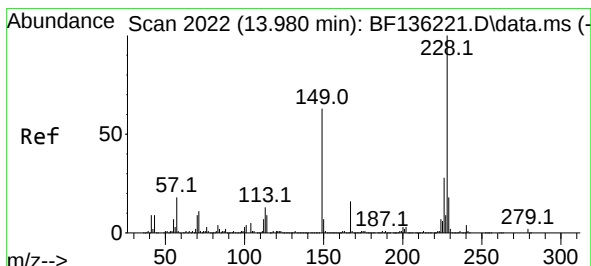
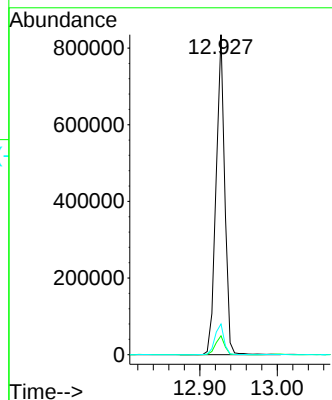
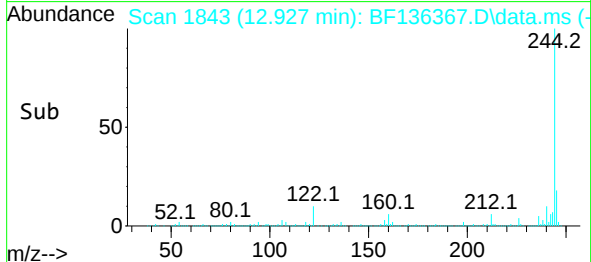
Instrument :
 BNA_F
 ClientSampleId :
 281RE



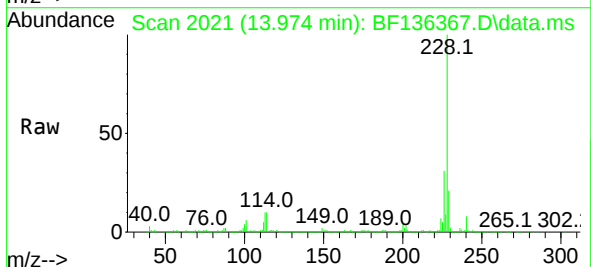
Tgt Ion:244 Resp: 648569
 Ion Ratio Lower Upper
 244 100
 212 5.9 4.6 7.0
 122 9.6 7.3 10.9

Manual Integrations
 APPROVED

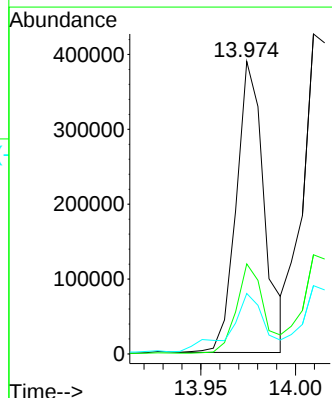
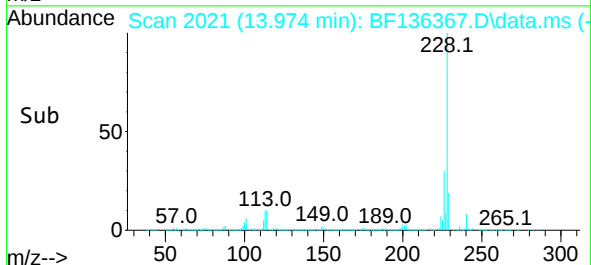
Reviewed By :Yogesh Patel 12/04/2023
 Supervised By :mohammad ahmed 12/05/2023

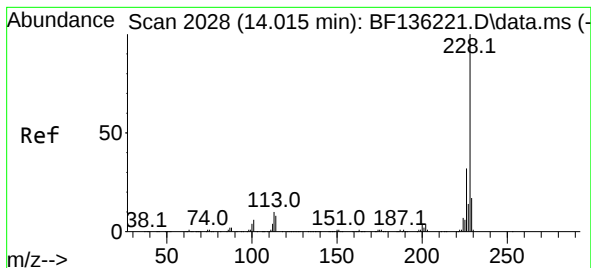


#81
 Benzo(a)anthracene
 Concen: 23.717 ng
 RT: 13.974 min Scan# 2021
 Delta R.T. -0.006 min
 Lab File: BF136367.D
 Acq: 02 Dec 2023 08:23



Tgt Ion:228 Resp: 399504
 Ion Ratio Lower Upper
 228 100
 226 30.8 22.6 34.0
 229 20.7 14.0 21.0





#83

Chrysene

Concen: 27.664 ng m

RT: 14.009 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136367.D

Acq: 02 Dec 2023 08:23

Instrument :

BNA_F

ClientSampleId :

281RE

Tgt Ion:228 Resp: 44992

Ion Ratio Lower Upper

228 100

226 31.0 25.5 38.3

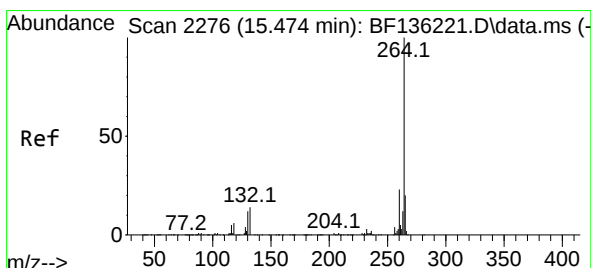
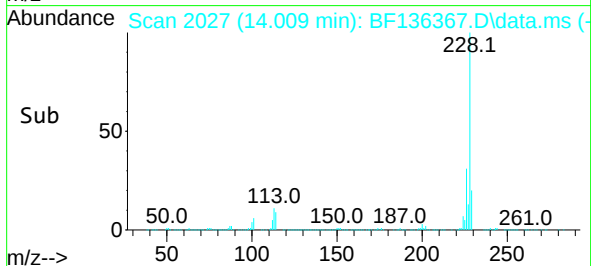
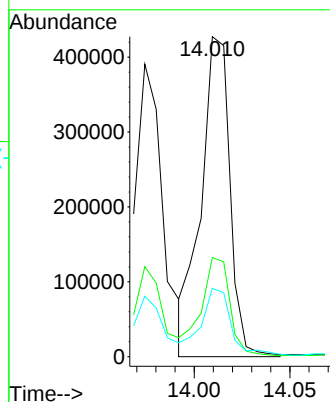
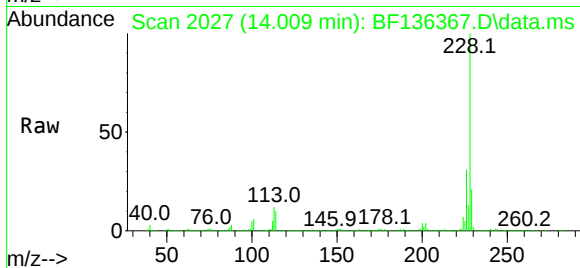
229 21.3 13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/04/2023

Supervised By :mohammad ahmed 12/05/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 2275

Delta R.T. -0.006 min

Lab File: BF136367.D

Acq: 02 Dec 2023 08:23

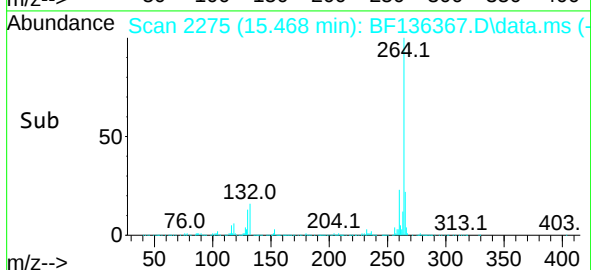
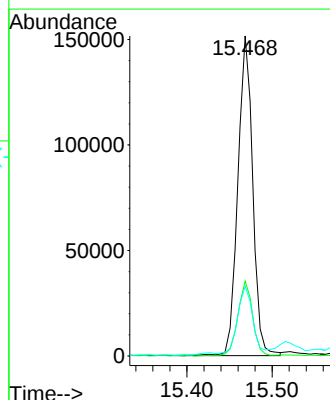
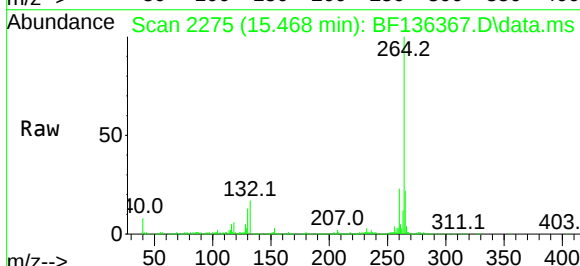
Tgt Ion:264 Resp: 183397

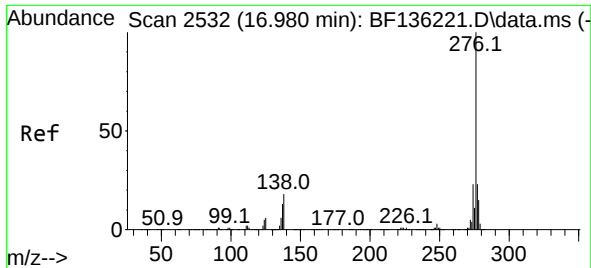
Ion Ratio Lower Upper

264 100

260 23.4 18.6 27.8

265 21.7 15.7 23.5





#87
Indeno(1,2,3-cd)pyrene
Concen: 8.892 ng
RT: 16.968 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

Instrument :

BNA_F

ClientSampleId :

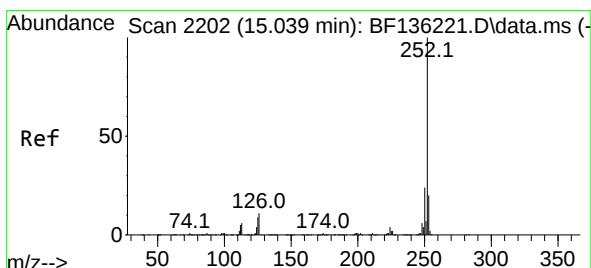
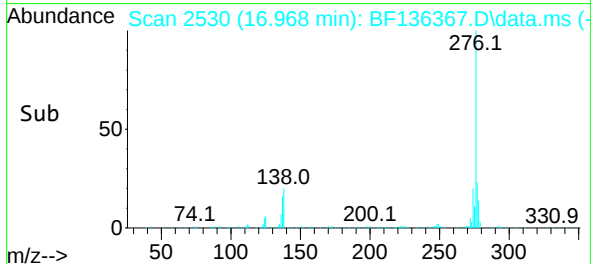
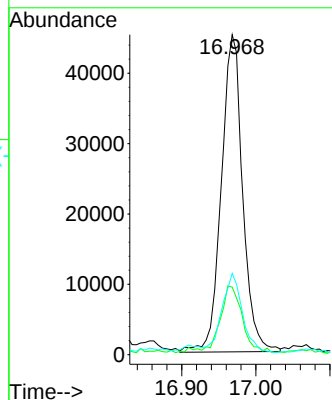
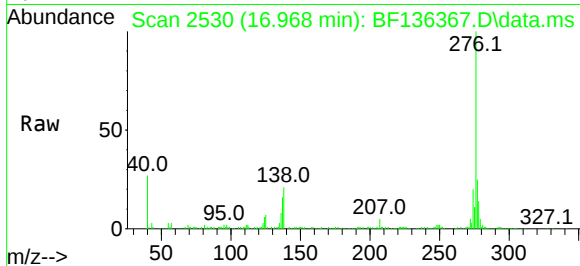
281RE

Tgt Ion:276 Resp: 9021
Ion Ratio Lower Upper
276 100
138 21.4 17.7 26.5
277 24.2 19.6 29.4

Manual Integrations

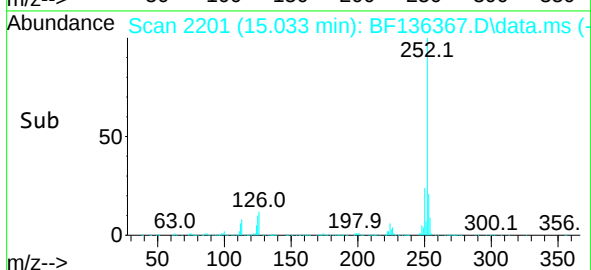
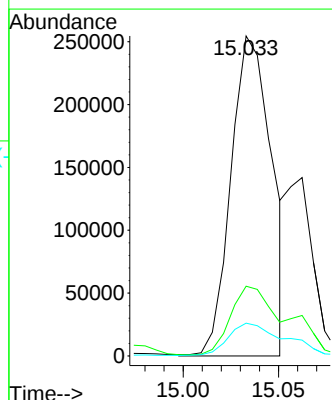
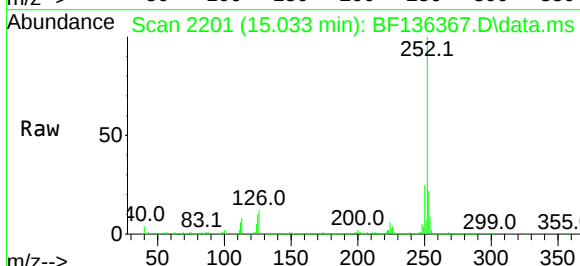
APPROVED

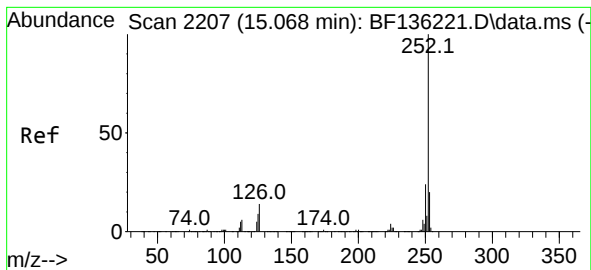
Reviewed By :Yogesh Patel 12/04/2023
Supervised By :mohammad ahmed 12/05/2023



#88
Benzo(b)fluoranthene
Concen: 29.389 ng m
RT: 15.033 min Scan# 2201
Delta R.T. -0.006 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

Tgt Ion:252 Resp: 378143
Ion Ratio Lower Upper
252 100
253 21.8 16.2 24.2
125 10.3 6.9 10.3





#89

Benzo(k)fluoranthene

Concen: 11.134 ng m

RT: 15.062 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136367.D

Acq: 02 Dec 2023 08:23

Instrument :

BNA_F

ClientSampleId :

281RE

Tgt Ion:252 Resp: 13606

Ion Ratio Lower Upper

252 100

253 22.7 15.6 23.4

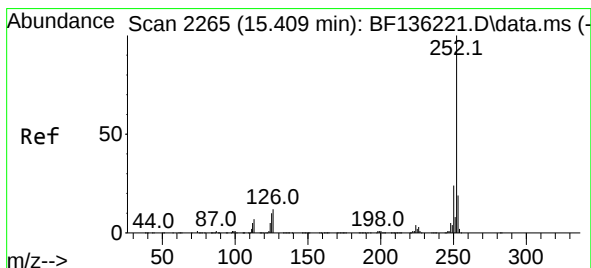
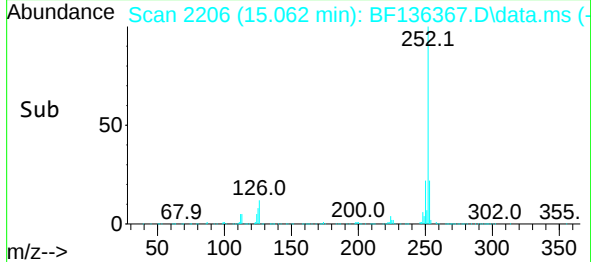
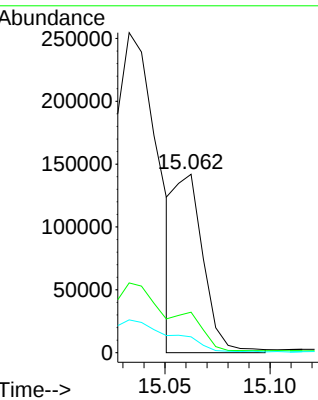
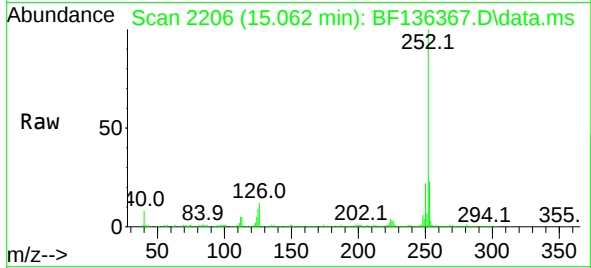
125 8.9 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/04/2023

Supervised By :mohammad ahmed 12/05/2023



#90

Benzo(a)pyrene

Concen: 17.234 ng

RT: 15.404 min Scan# 2264

Delta R.T. -0.005 min

Lab File: BF136367.D

Acq: 02 Dec 2023 08:23

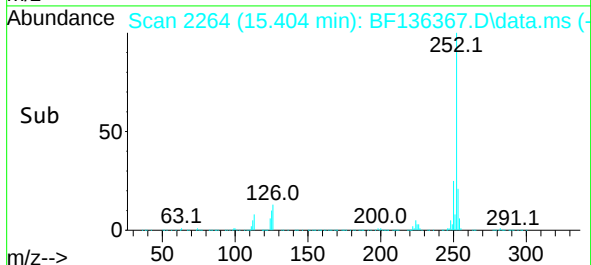
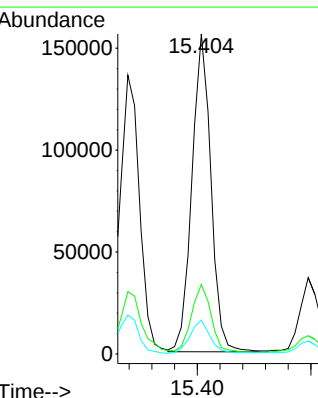
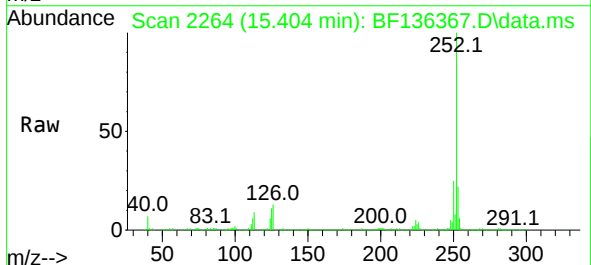
Tgt Ion:252 Resp: 181275

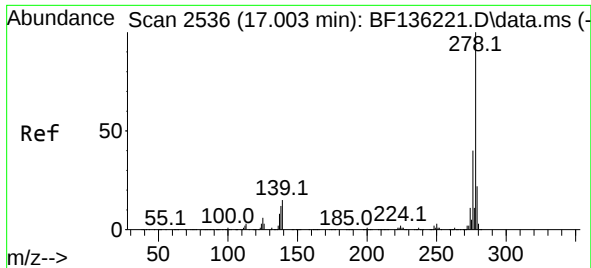
Ion Ratio Lower Upper

252 100

253 21.7 15.5 23.3

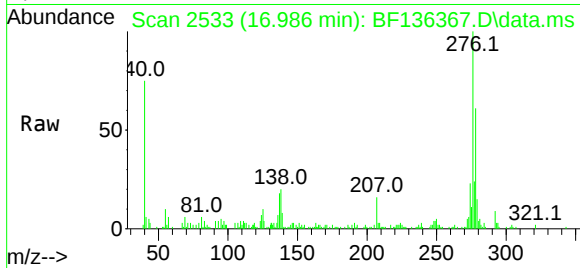
125 10.6 7.9 11.9





#91
Dibenzo(a,h)anthracene
Concen: 4.577 ng
RT: 16.986 min Scan# 2173
Delta R.T. -0.017 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23

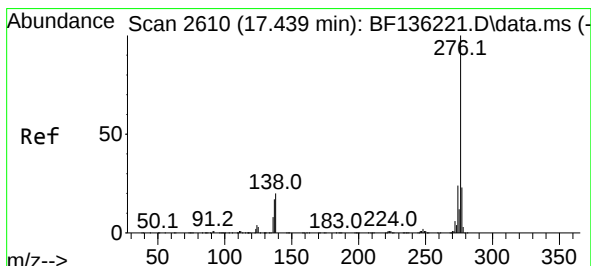
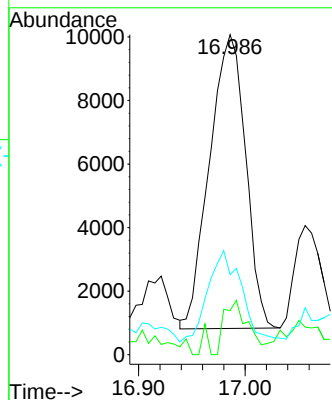
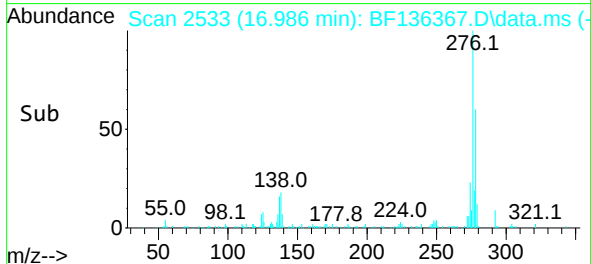
Instrument :
BNA_F
ClientSampleId :
281RE



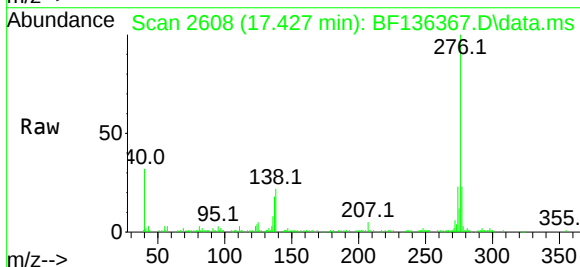
Tgt Ion:278 Resp: 2173
Ion Ratio Lower Upper
278 100
139 13.8 11.7 17.5
279 25.0 17.8 26.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/04/2023
Supervised By :mohammad ahmed 12/05/2023



#92
Benzo(g,h,i)perylene
Concen: 8.968 ng
RT: 17.427 min Scan# 2608
Delta R.T. -0.012 min
Lab File: BF136367.D
Acq: 02 Dec 2023 08:23



Tgt Ion:276 Resp: 81239
Ion Ratio Lower Upper
276 100
277 23.0 18.6 27.8
138 22.2 15.8 23.8

