

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071223\
 Data File : BF134252.D
 Acq On : 12 Jul 2023 18:05
 Operator : CG\JU
 Sample : 03555-05
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ETGI-369

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/13/2023
 Supervised By :mohammad ahmed 07/13/2023

Quant Time: Jul 12 18:28:43 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 11 13:06:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	91072	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	358390	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	173132	20.000	ng	0.00
64) Phenanthrene-d10	11.380	188	275079	20.000	ng	0.00
76) Chrysene-d12	14.045	240	167594	20.000	ng	0.00
86) Perylene-d12	15.551	264	161801	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	500620	91.952	ng	0.00
7) Phenol-d6	6.481	99	615457	91.921	ng	0.00
23) Nitrobenzene-d5	7.404	82	428731	64.485	ng	0.00
42) 2,4,6-Tribromophenol	10.674	330	152560	70.281	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	800091	67.188	ng	0.00
79) Terphenyl-d14	12.974	244	600430	57.660	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.145	128	246695	14.250	ng	99
37) 2-Methylnaphthalene	8.833	142	91172	7.448	ng	98
38) 1-Methylnaphthalene	8.933	142	40775	3.583	ng	99
46) 1,1'-Biphenyl	9.298	154	44744	3.222	ng	97
49) Acenaphthylene	9.739	152	50732	2.923	ng	97
52) Acenaphthene	9.916	154	95720	9.503	ng	99
55) Dibenzofuran	10.086	168	194480	12.355	ng	99
58) Fluorene	10.433	166	80875	6.604	ng	96
71) Phenanthrene	11.404	178	694323	50.139	ng	100
72) Anthracene	11.457	178	405524	28.155	ng	99
73) Carbazole	11.610	167	55847	4.236	ng	97
75) Fluoranthene	12.610	202	1830814	122.292	ng	98
78) Pyrene	12.839	202	1411190	90.479	ng	99
81) Benzo(a)anthracene	14.033	228	688088	59.201	ng	99
83) Chrysene	14.068	228	709783	63.049	ng	97
87) Indeno(1,2,3-cd)pyrene	17.092	276	196314	17.485	ng	# 94
88) Benzo(b)fluoranthene	15.109	252	758512m	79.726	ng	
89) Benzo(k)fluoranthene	15.133	252	205658m	21.231	ng	
90) Benzo(a)pyrene	15.486	252	366889	39.879	ng	97
91) Dibenzo(a,h)anthracene	17.098	278	53747m	5.861	ng	
92) Benzo(g,h,i)perylene	17.568	276	170169	17.994	ng	98

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

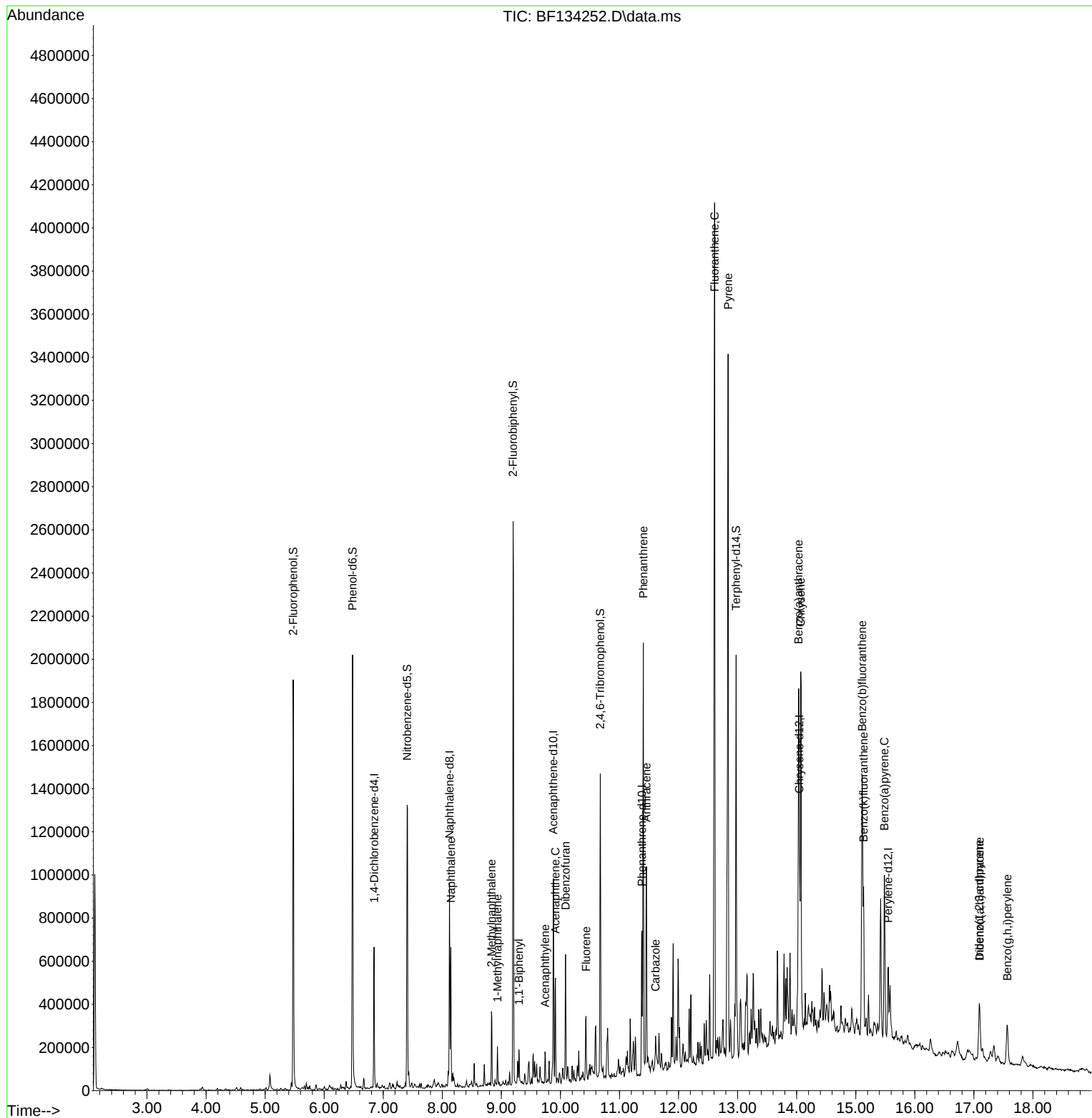
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071223\
Data File : BF134252.D
Acq On : 12 Jul 2023 18:05
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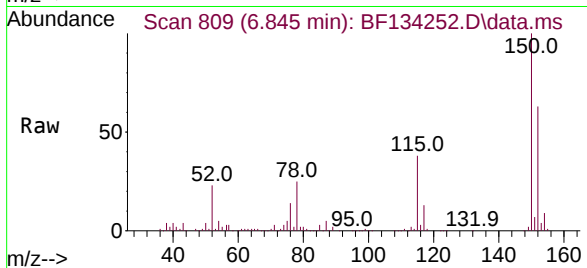
Quant Time: Jul 12 18:28:43 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 11 13:06:48 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 80
Delta R.T. 0.000 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

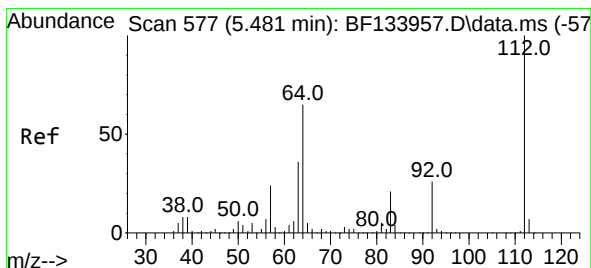
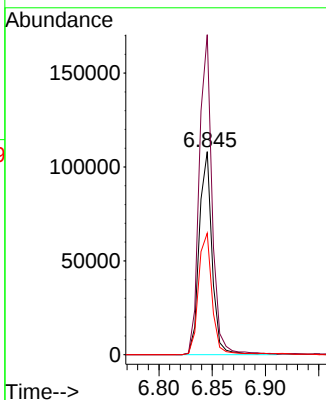
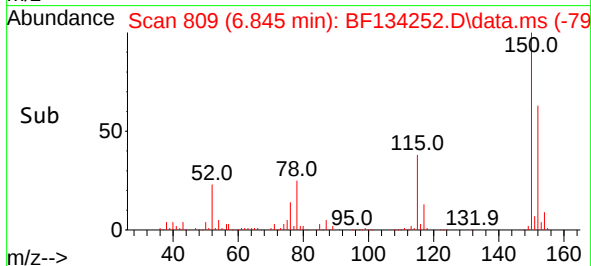
Instrument :
BNA_F
ClientSampleId :
ETGI-369



Tgt Ion:152 Resp: 91072
Ion Ratio Lower Upper
152 100
150 157.7 124.5 186.7
115 59.8 50.2 75.2

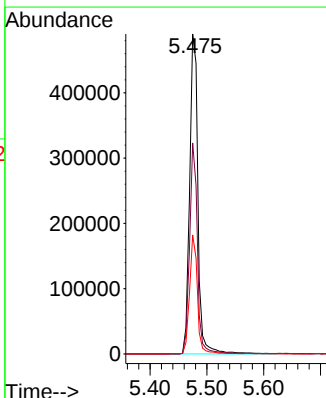
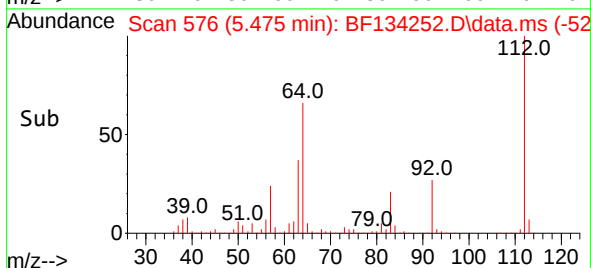
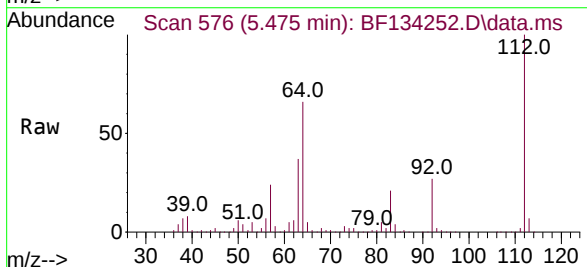
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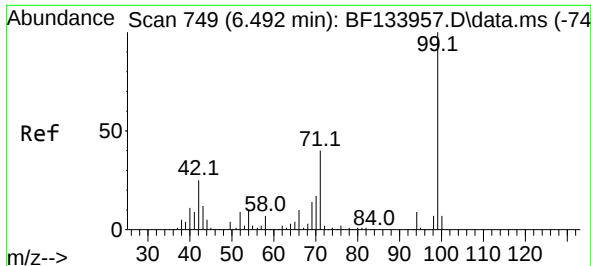
Reviewed By :Yogesh Patel 07/13/2023
Supervised By :mohammad ahmed 07/13/2023



#5
2-Fluorophenol
Concen: 91.952 ng
RT: 5.475 min Scan# 576
Delta R.T. -0.000 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

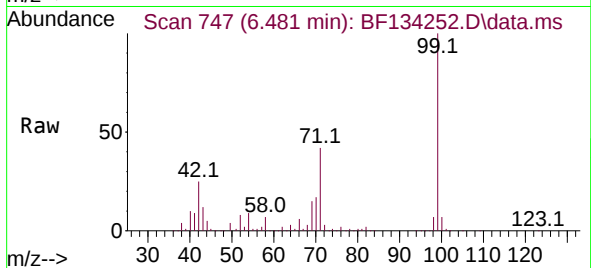
Tgt Ion:112 Resp: 500620
Ion Ratio Lower Upper
112 100
64 65.9 52.1 78.1
63 37.2 28.6 42.8





#7
Phenol-d6
Concen: 91.921 ng
RT: 6.481 min Scan# 749
Delta R.T. -0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

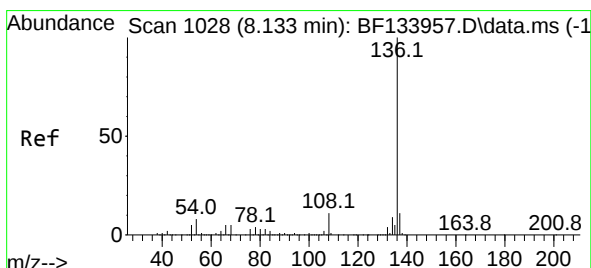
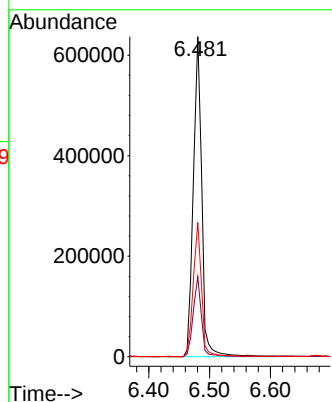
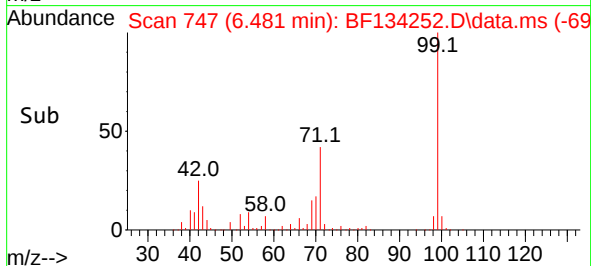
Instrument :
BNA_F
ClientSampleId :
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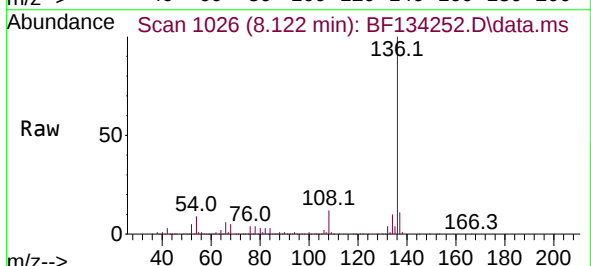
Tgt Ion: 99 Resp: 61545
Ion Ratio Lower Upper
99 100
42 25.0 19.8 29.6
71 41.9 31.9 47.9

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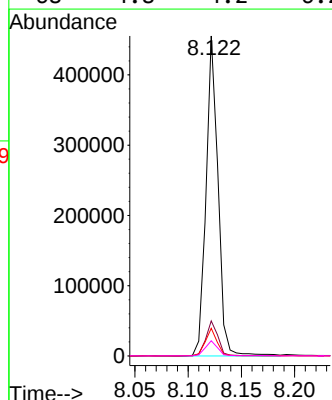
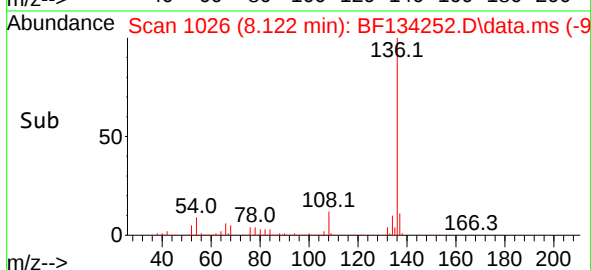
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Supervised By :mohammad ahmed 07/13/2023

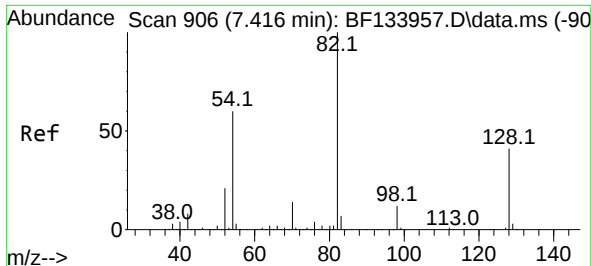


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05



Tgt Ion:136 Resp: 358390
Ion Ratio Lower Upper
136 100
137 10.9 8.6 12.8
54 8.7 6.5 9.7
68 4.8 4.2 6.2





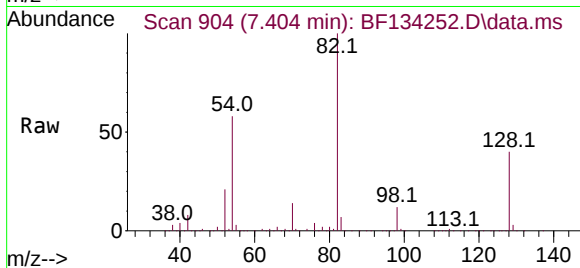
#23
Nitrobenzene-d5
Concen: 64.485 ng
RT: 7.404 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Instrument :

BNA_F

ClientSampleId :

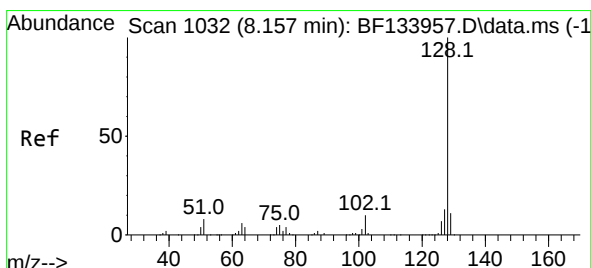
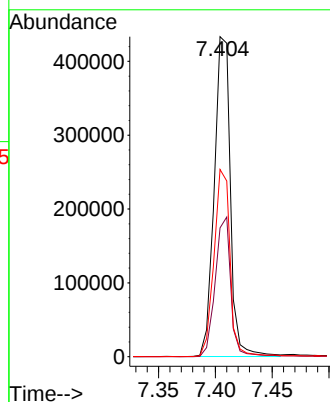
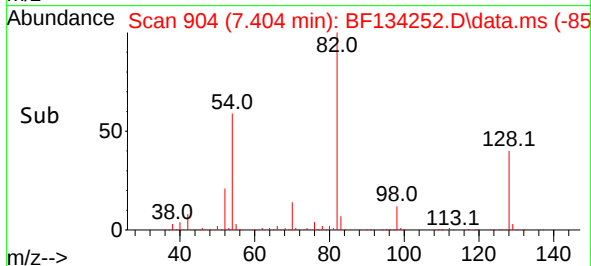
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Tgt Ion: 82 Resp: 428733
Ion Ratio Lower Upper
82 100
128 40.2 32.5 48.7
54 58.5 48.2 72.2

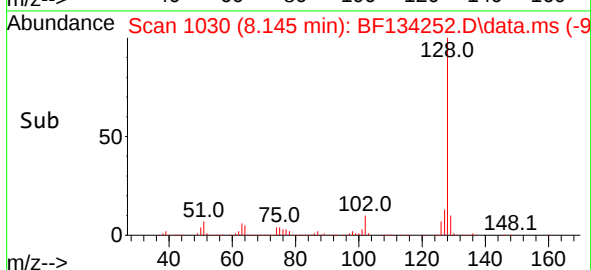
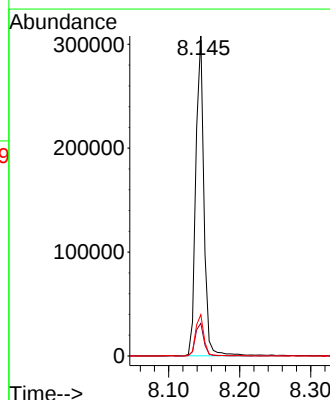
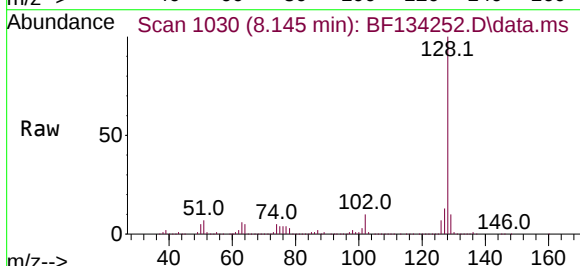
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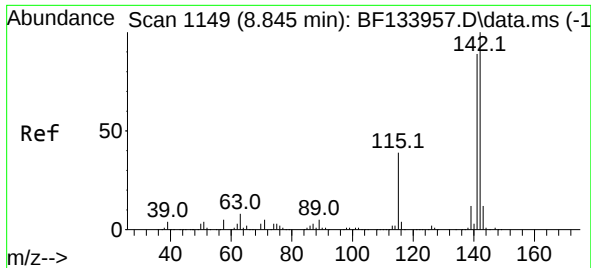
Reviewed By :Yogesh Patel 07/13/2023
Supervised By :mohammad ahmed 07/13/2023



#31
Naphthalene
Concen: 14.250 ng
RT: 8.145 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Tgt Ion:128 Resp: 246695
Ion Ratio Lower Upper
128 100
129 10.2 8.7 13.1
127 12.9 10.6 15.8





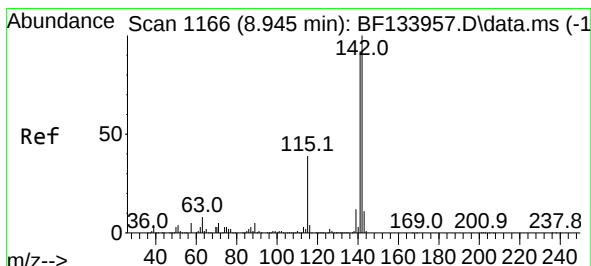
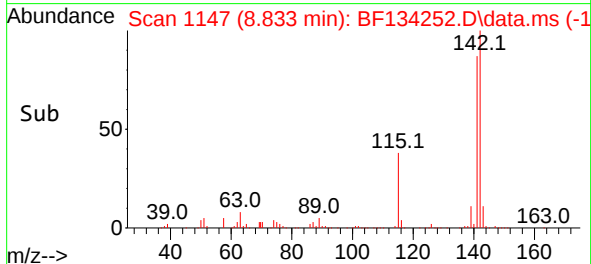
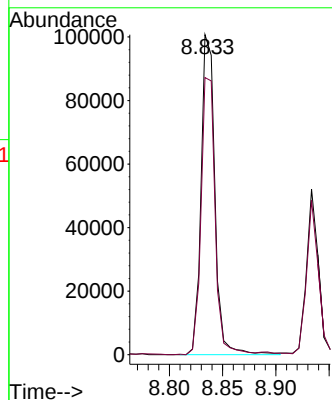
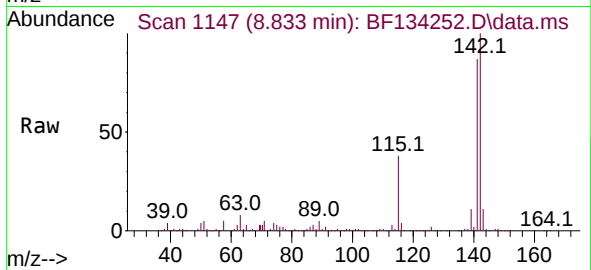
#37
2-Methylnaphthalene
Concen: 7.448 ng
RT: 8.833 min Scan# 1149
Delta R.T. -0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Instrument :
BNA_F
ClientSampleId :
ETGI-369

Tgt Ion:142 Resp: 91172
Ion Ratio Lower Upper
142 100
141 86.6 71.0 106.4

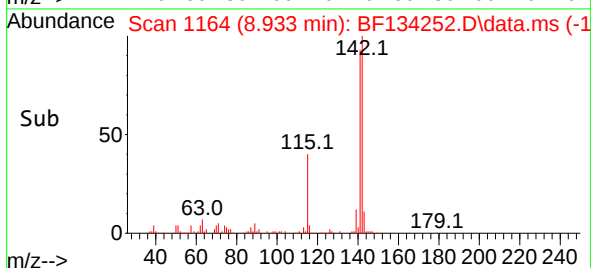
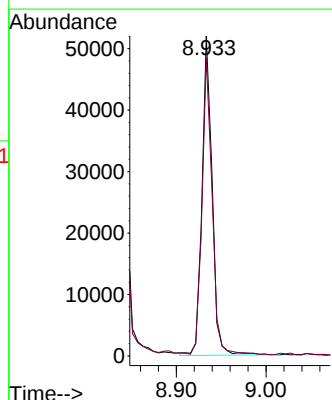
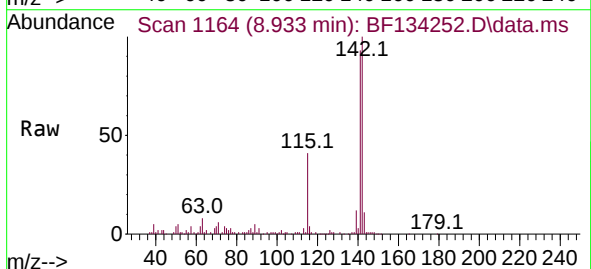
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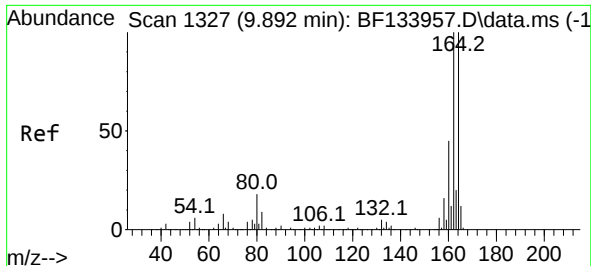
Reviewed By :Yogesh Patel 07/13/2023
Supervised By :mohammad ahmed 07/13/2023



#38
1-Methylnaphthalene
Concen: 3.583 ng
RT: 8.933 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Tgt Ion:142 Resp: 40775
Ion Ratio Lower Upper
142 100
141 93.3 73.5 110.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.880 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134252.D

Acq: 12 Jul 2023 18:05

Instrument :

BNA_F

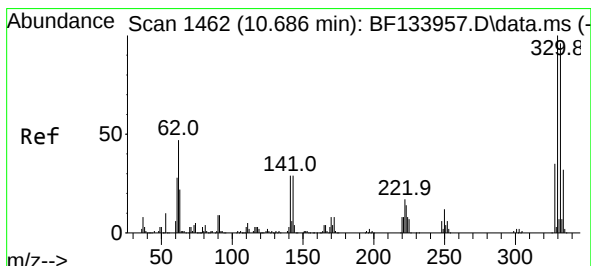
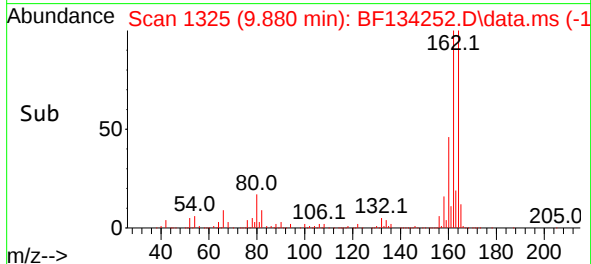
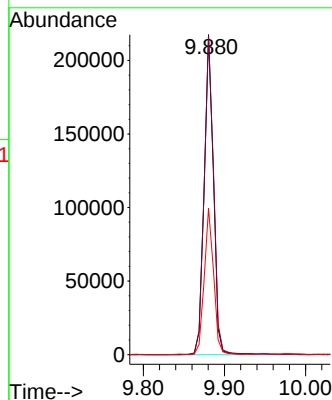
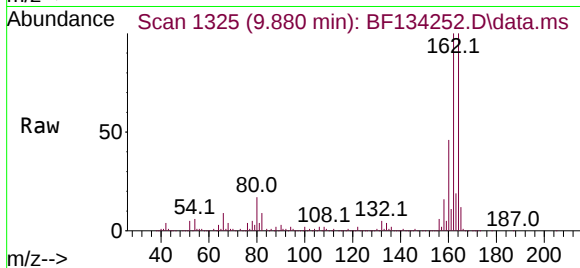
ClientSampleId :

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Tgt Ion:164 Resp: 17313
 Ion Ratio Lower Upper
 164 100
 162 99.6 80.0 120.0
 160 45.8 35.9 53.9

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#42

2,4,6-Tribromophenol

Concen: 70.281 ng

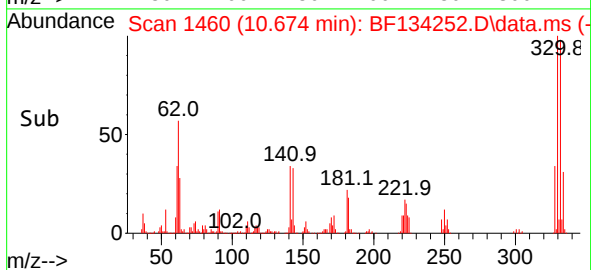
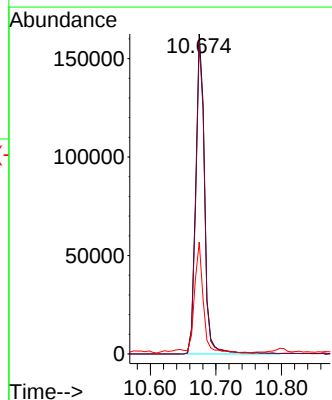
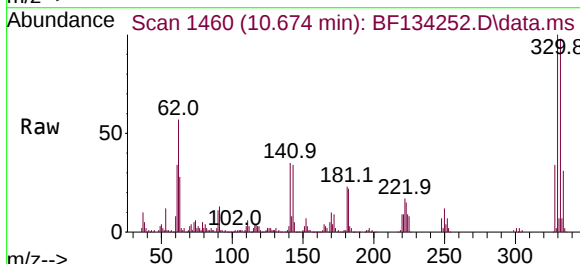
RT: 10.674 min Scan# 1460

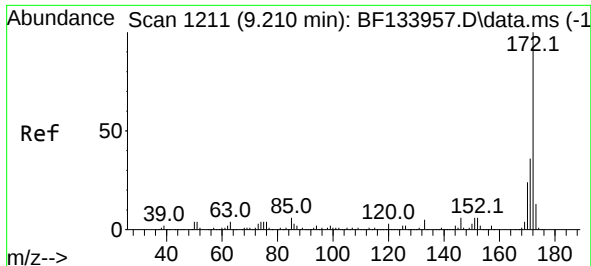
Delta R.T. -0.006 min

Lab File: BF134252.D

Acq: 12 Jul 2023 18:05

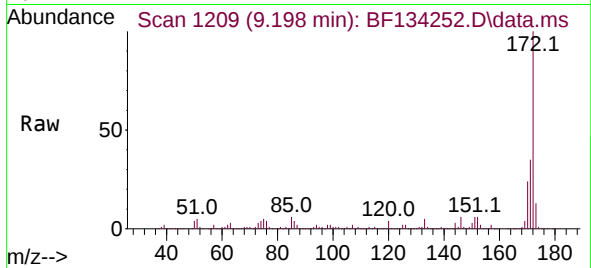
Tgt Ion:330 Resp: 152560
 Ion Ratio Lower Upper
 330 100
 332 96.2 77.0 115.6
 141 36.1 26.3 39.5





#45
2-Fluorobiphenyl
Concen: 67.188 ng
RT: 9.198 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

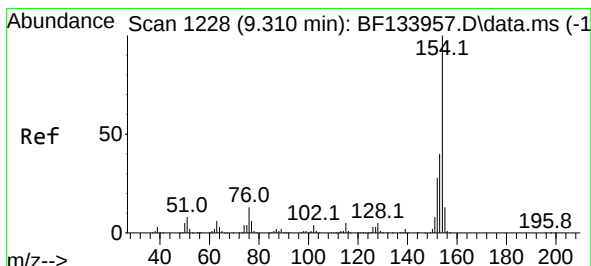
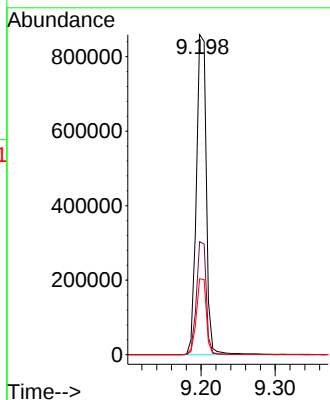
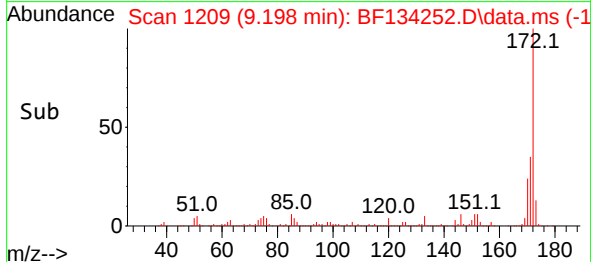
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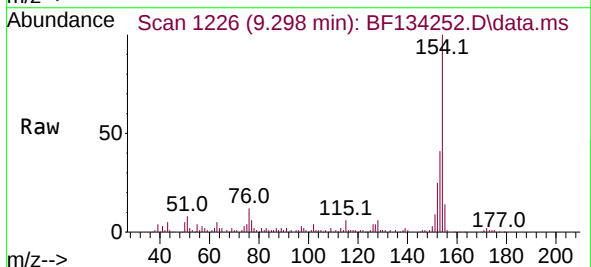
Tgt Ion:172 Resp: 80009
Ion Ratio Lower Upper
172 100
171 35.3 28.6 43.0
170 23.7 19.4 29.0

Manual Integrations
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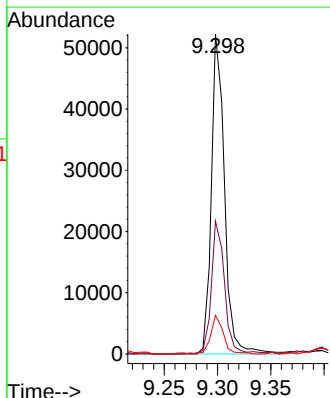
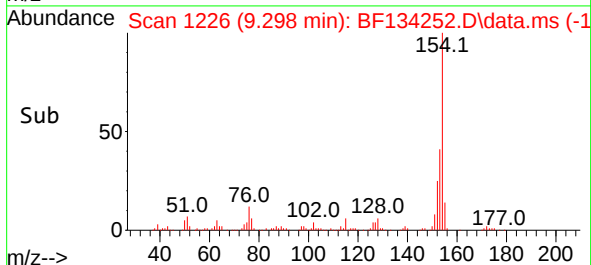
Reviewed By :Yogesh Patel 07/13/2023
Supervised By :mohammad ahmed 07/13/2023

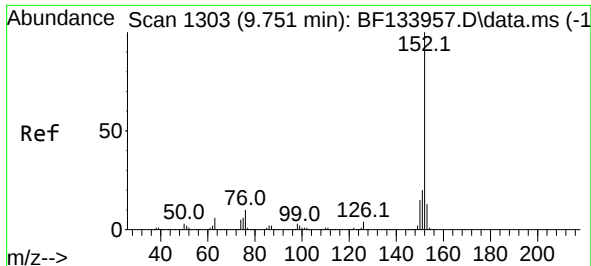


#46
1,1'-Biphenyl
Concen: 3.222 ng
RT: 9.298 min Scan# 1226
Delta R.T. -0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05



Tgt Ion:154 Resp: 44744
Ion Ratio Lower Upper
154 100
153 41.5 19.8 59.8
76 12.0 0.0 32.9





#49

Acenaphthylene

Concen: 2.923 ng

RT: 9.739 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134252.D

Acq: 12 Jul 2023 18:05

Instrument :

BNA_F

ClientSampleId :

ETGI-369

Tgt Ion:152 Resp: 5073

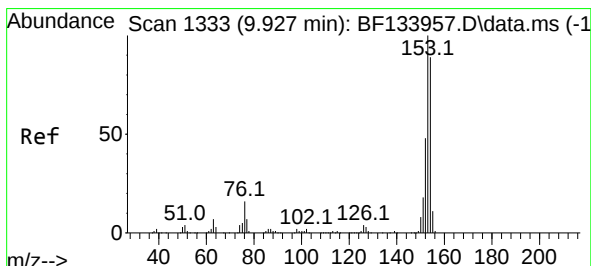
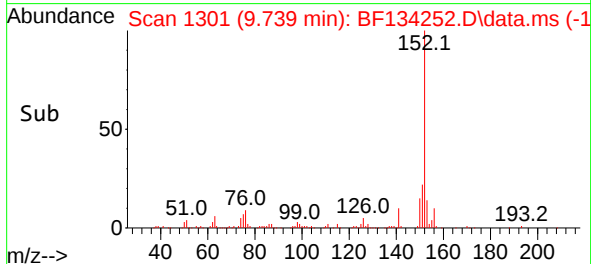
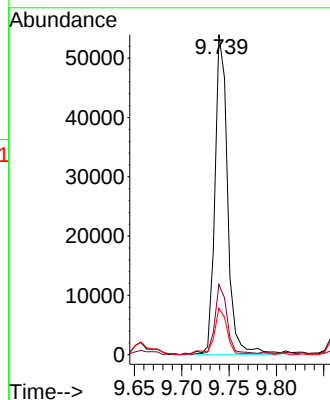
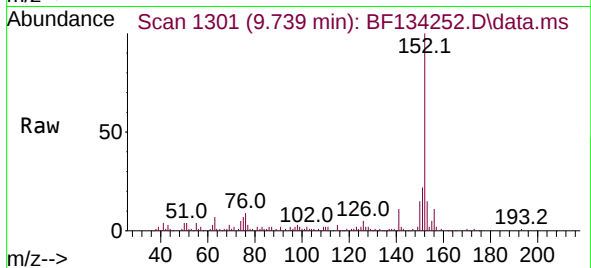
Ion	Ratio	Lower	Upper
152	100		
151	22.0	16.2	24.2
153	14.6	10.8	16.2

Manual Integrations

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Supervised By :mohammad ahmed 07/13/2023



#52

Acenaphthene

Concen: 9.503 ng

RT: 9.916 min Scan# 1331

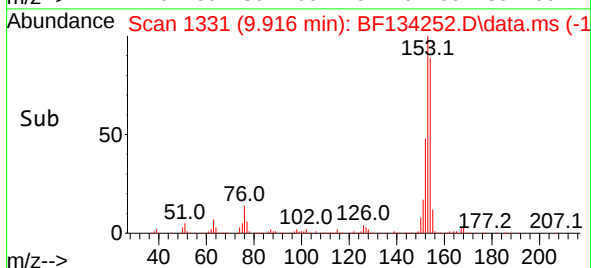
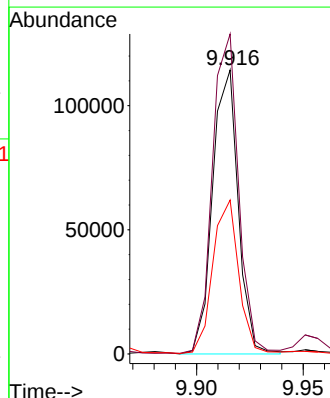
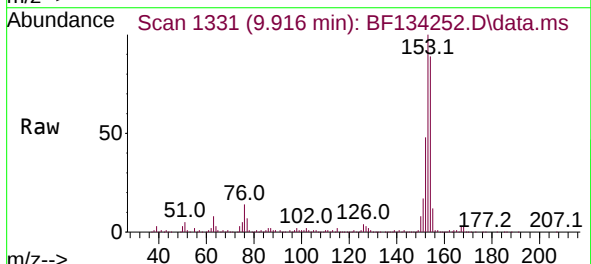
Delta R.T. -0.006 min

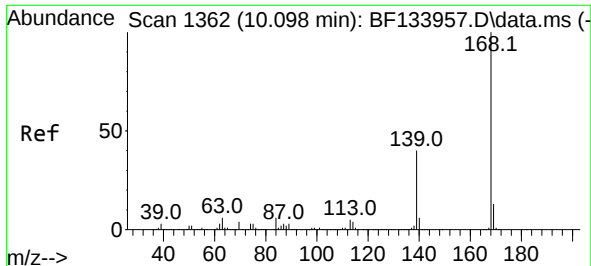
Lab File: BF134252.D

Acq: 12 Jul 2023 18:05

Tgt Ion:154 Resp: 95720

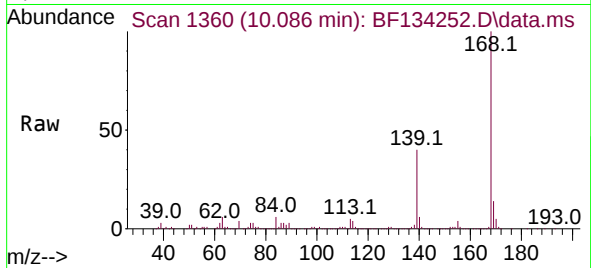
Ion	Ratio	Lower	Upper
154	100		
153	112.7	89.4	134.2
152	54.2	42.8	64.2





#55
Dibenzenofuran
Concen: 12.355 ng
RT: 10.086 min Scan# 1419
Delta R.T. -0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

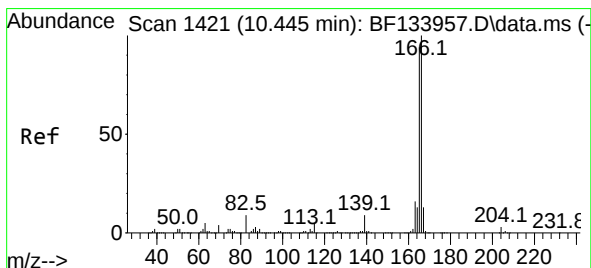
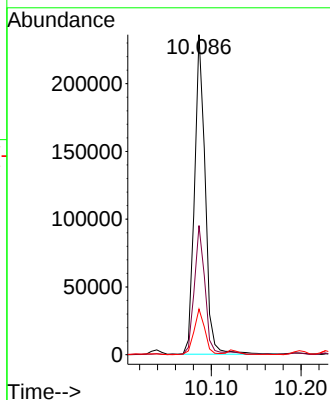
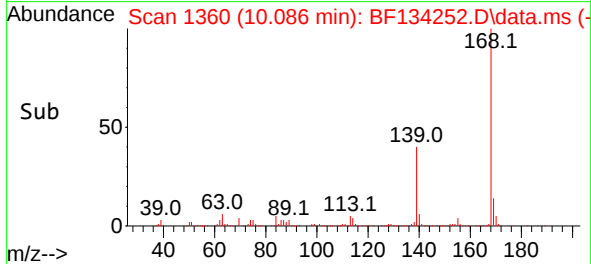
Instrument :
BNA_F
ClientSampleId :
ETGI-369



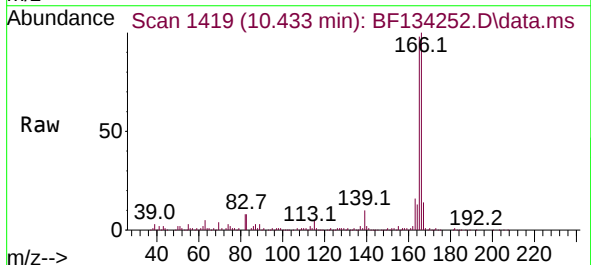
Tgt Ion:168 Resp: 194480
Ion Ratio Lower Upper
168 100
139 40.3 32.0 48.0
169 14.3 10.6 16.0

Manual Integrations
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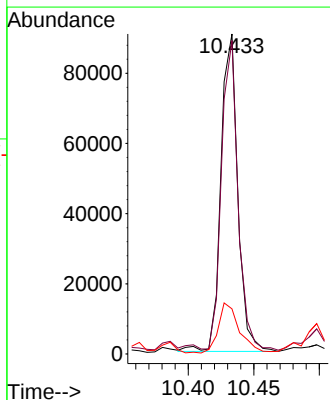
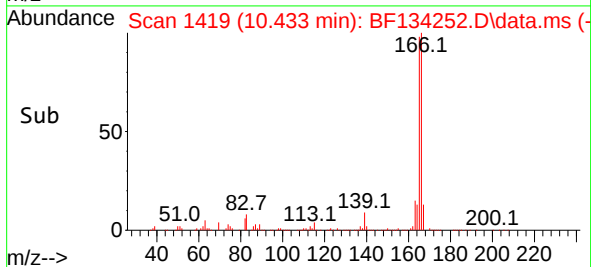
Reviewed By :Yogesh Patel 07/13/2023
Supervised By :mohammad ahmed 07/13/2023

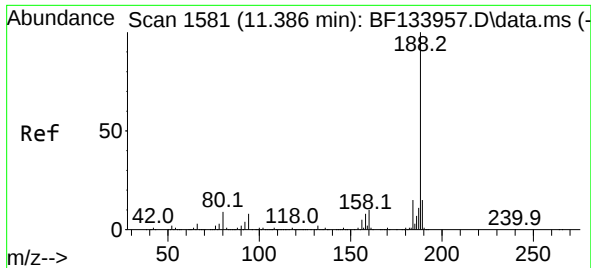


#58
Fluorene
Concen: 6.604 ng
RT: 10.433 min Scan# 1419
Delta R.T. -0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05



Tgt Ion:166 Resp: 80875
Ion Ratio Lower Upper
166 100
165 98.0 75.0 112.4
167 14.1 10.6 15.8





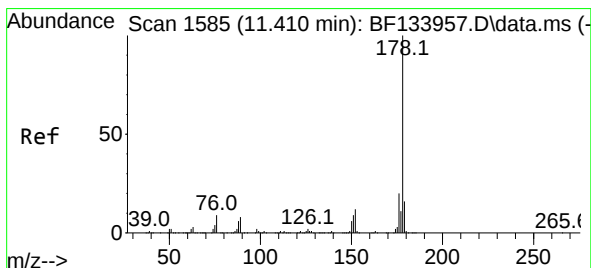
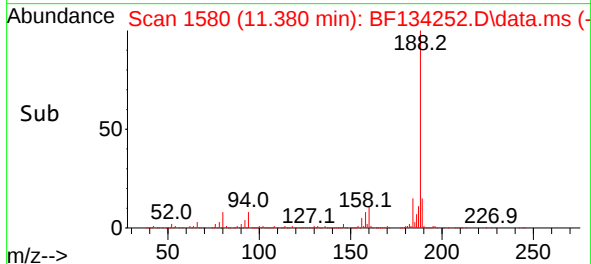
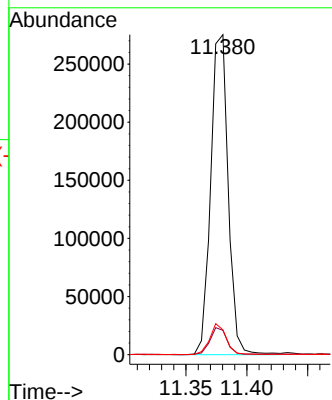
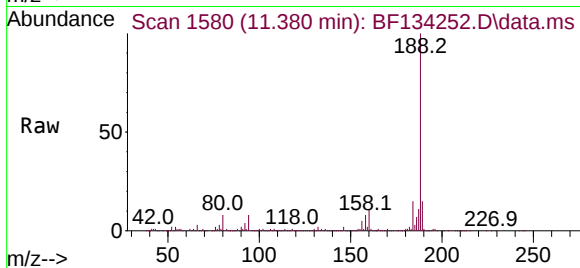
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 11380
Delta R.T. -0.000 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Instrument :
BNA_F
ClientSampleId :
ETGI-369

Tgt Ion:188 Resp: 275079
Ion Ratio Lower Upper
188 100
94 7.6 6.4 9.6
80 7.8 7.3 10.9

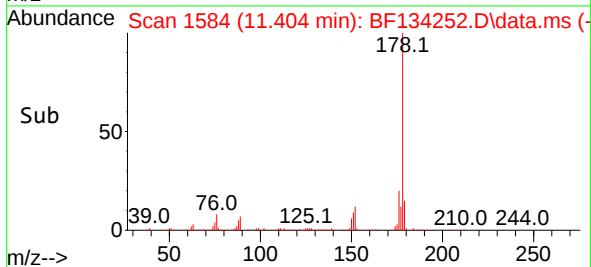
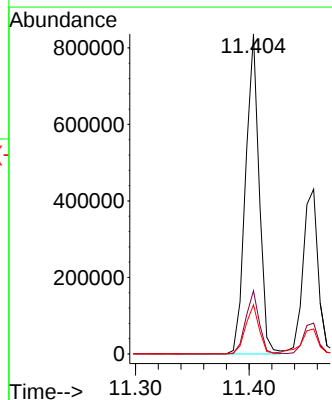
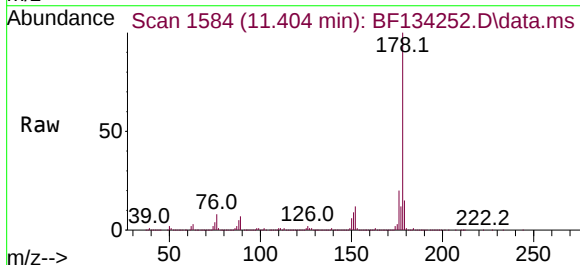
Manual Integrations
APPROVED

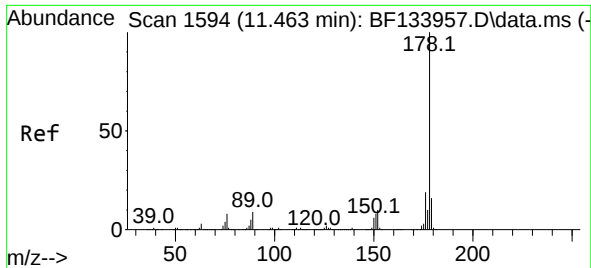
Reviewed By :Yogesh Patel 07/13/2023
Supervised By :mohammad ahmed 07/13/2023



#71
Phenanthrene
Concen: 50.139 ng
RT: 11.404 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Tgt Ion:178 Resp: 694323
Ion Ratio Lower Upper
178 100
176 19.7 16.0 24.0
179 15.3 12.4 18.6





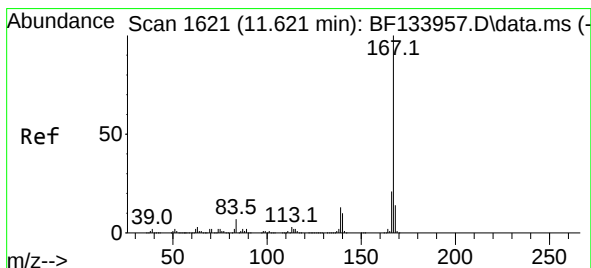
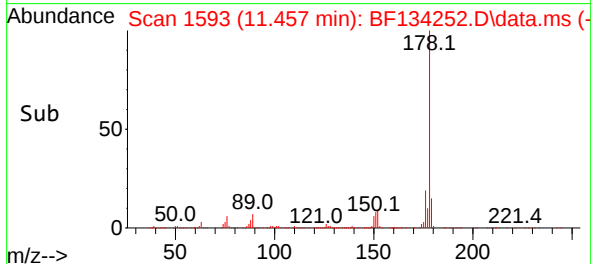
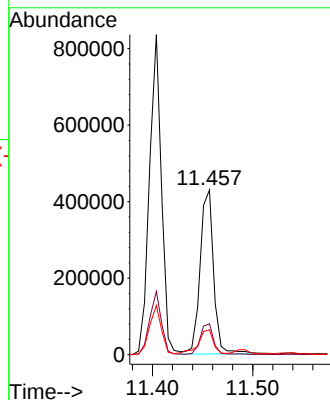
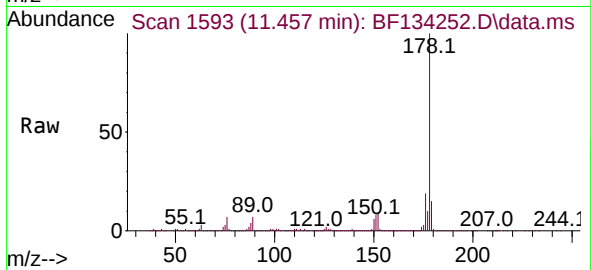
#72
 Anthracene
 Concen: 28.155 ng
 RT: 11.457 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF134252.D
 Acq: 12 Jul 2023 18:05

Instrument :
 BNA_F
 ClientSampleId :
 ETGI-369

Tgt Ion:178 Resp: 405524
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.3 22.9
 179 15.2 12.4 18.6

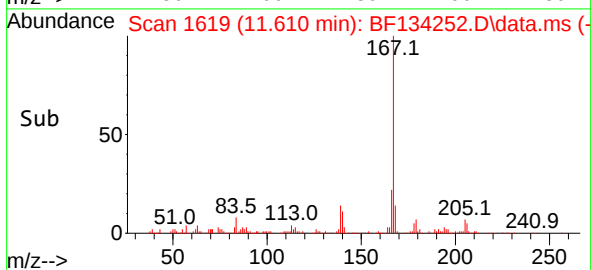
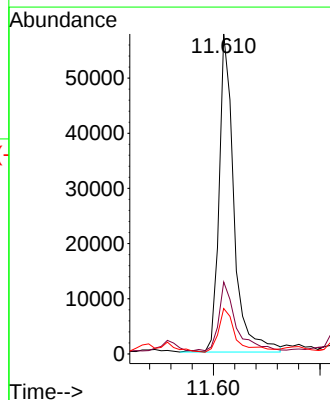
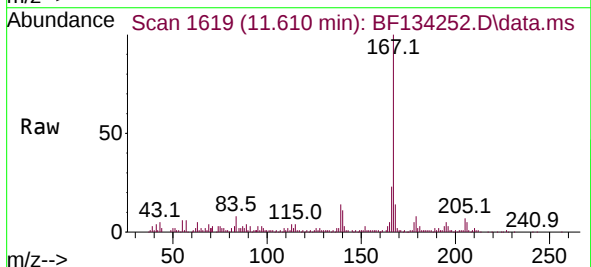
Manual Integrations
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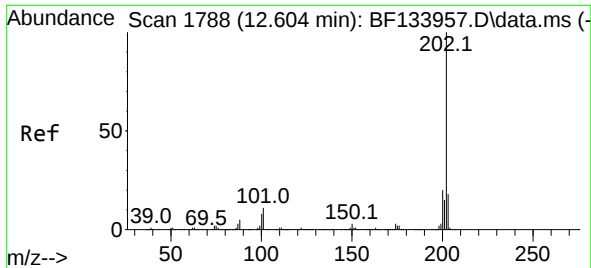
Reviewed By :Yogesh Patel 07/13/2023
 Supervised By :mohammad ahmed 07/13/2023



#73
 Carbazole
 Concen: 4.236 ng
 RT: 11.610 min Scan# 1619
 Delta R.T. -0.006 min
 Lab File: BF134252.D
 Acq: 12 Jul 2023 18:05

Tgt Ion:167 Resp: 55847
 Ion Ratio Lower Upper
 167 100
 166 22.5 17.0 25.6
 139 14.2 10.4 15.6





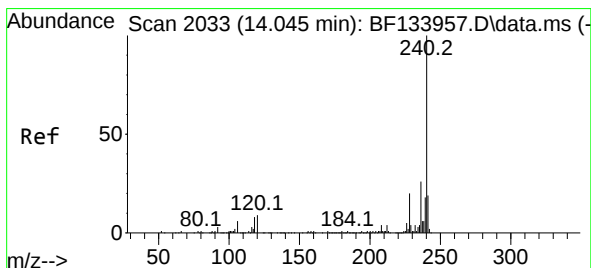
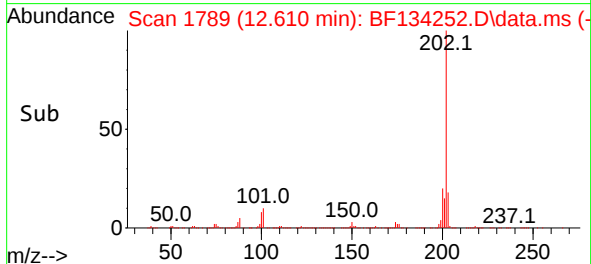
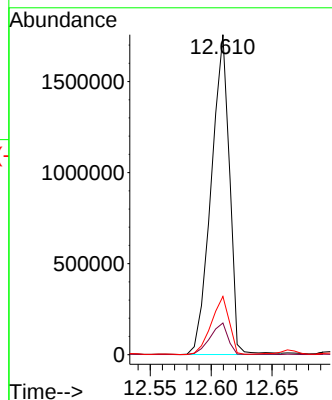
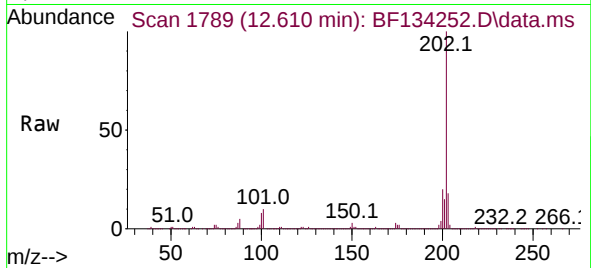
#75
Fluoranthene
Concen: 122.292 ng
RT: 12.610 min Scan# 1788
Delta R.T. 0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Instrument :
BNA_F
ClientSampleId :
ETGI-369

Tgt Ion:202 Resp: 1830814
Ion Ratio Lower Upper
202 100
101 9.9 0.0 31.0
203 18.2 0.0 37.6

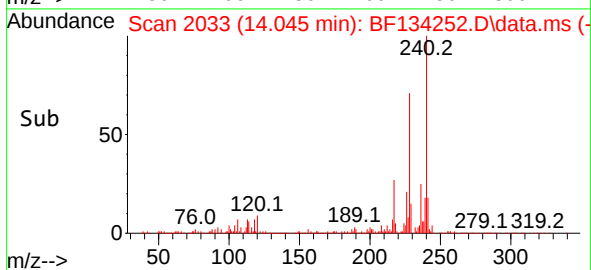
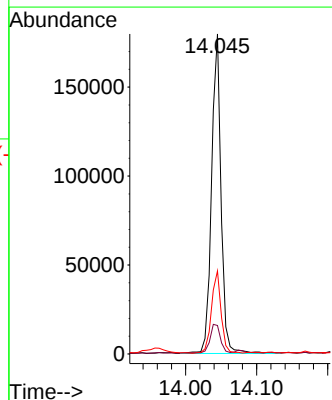
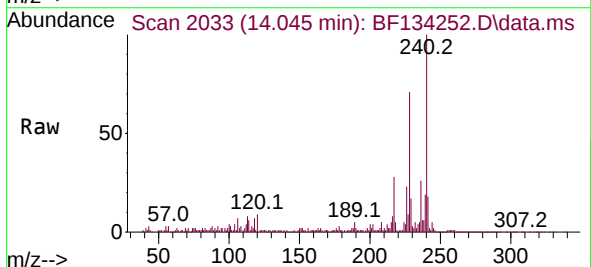
Manual Integrations
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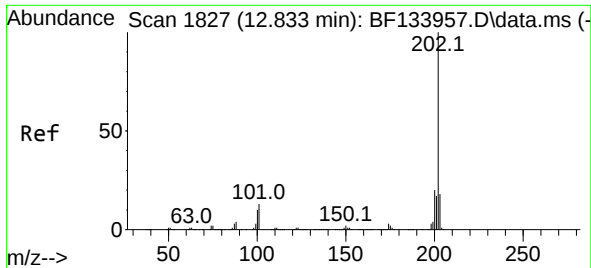
Reviewed By :Yogesh Patel 07/13/2023
Supervised By :mohammad ahmed 07/13/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2033
Delta R.T. 0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Tgt Ion:240 Resp: 167594
Ion Ratio Lower Upper
240 100
120 8.9 7.4 11.0
236 25.9 21.0 31.6





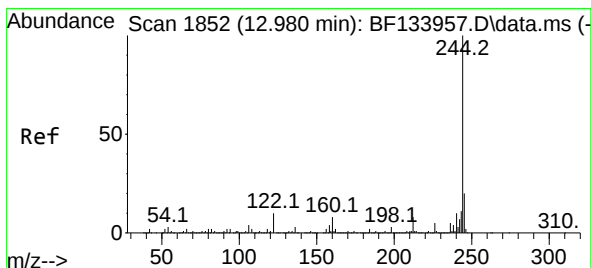
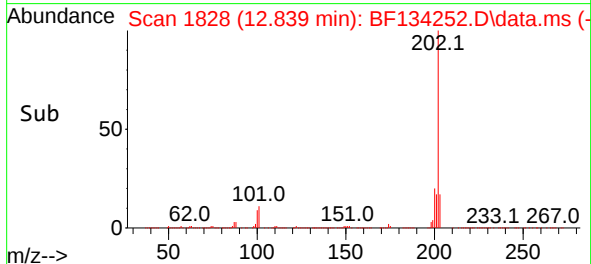
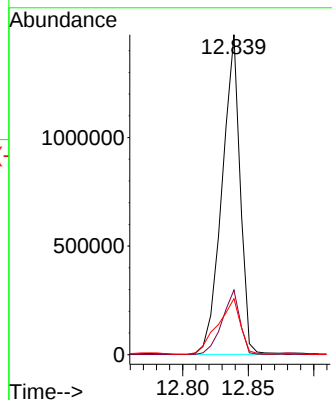
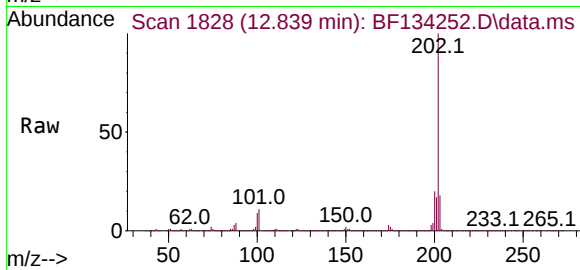
#78
Pyrene
Concen: 90.479 ng
RT: 12.839 min Scan# 1827
Delta R.T. 0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Instrument :
BNA_F
ClientSampleId :
ETGI-369

Tgt Ion:202 Resp: 1411190
Ion Ratio Lower Upper
202 100
200 20.2 16.1 24.1
203 17.5 14.3 21.5

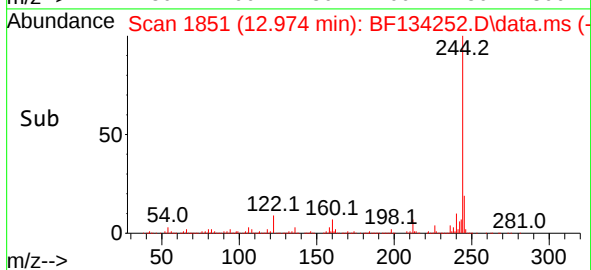
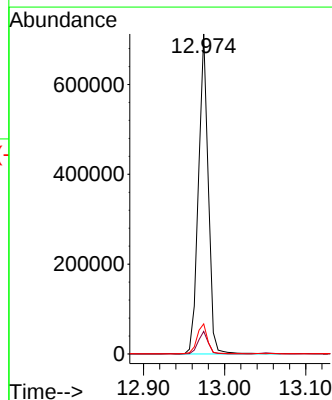
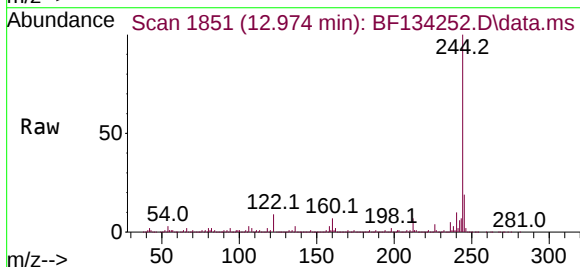
Manual Integrations
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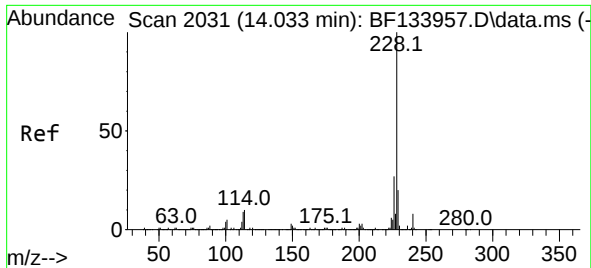
Reviewed By :Yogesh Patel 07/13/2023
Supervised By :mohammad ahmed 07/13/2023



#79
Terphenyl-d14
Concen: 57.660 ng
RT: 12.974 min Scan# 1851
Delta R.T. -0.000 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Tgt Ion:244 Resp: 600430
Ion Ratio Lower Upper
244 100
212 7.1 6.0 9.0
122 9.4 8.3 12.5





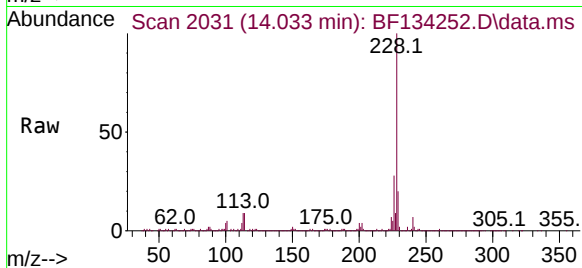
#81
Benzo(a)anthracene
Concen: 59.201 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.000 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Instrument :

BNA_F

ClientSampleId :

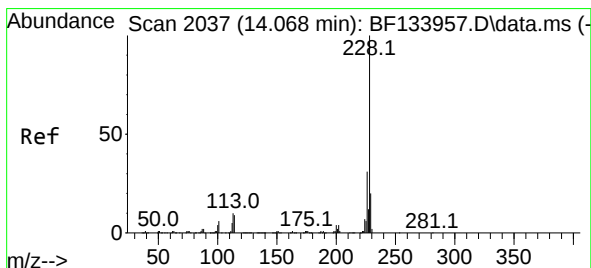
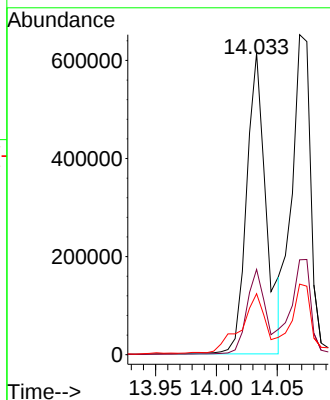
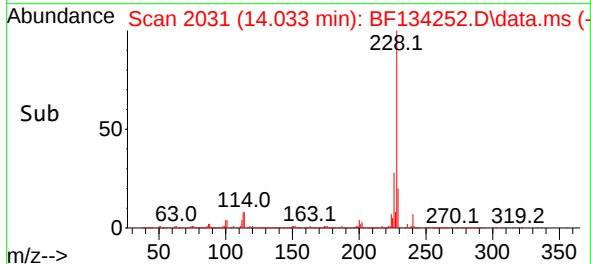
ETGI-369



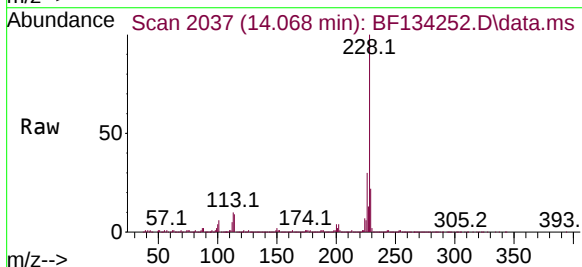
Tgt Ion:228 Resp: 688088
Ion Ratio Lower Upper
228 100
226 28.3 22.0 33.0
229 20.2 16.3 24.5

Manual Integrations
APPROVED

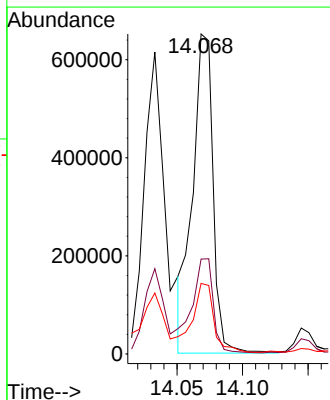
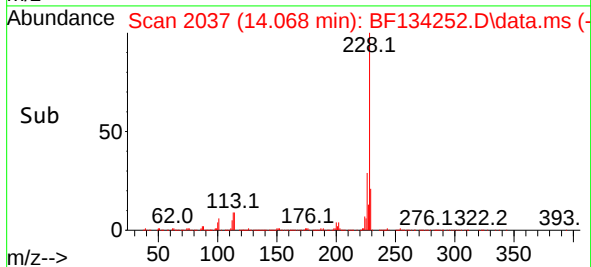
Reviewed By :Yogesh Patel 07/13/2023
Supervised By :mohammad ahmed 07/13/2023

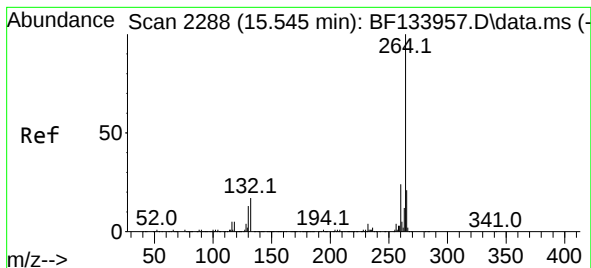


#83
Chrysene
Concen: 63.049 ng
RT: 14.068 min Scan# 2037
Delta R.T. -0.000 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05



Tgt Ion:228 Resp: 709783
Ion Ratio Lower Upper
228 100
226 29.7 24.4 36.6
229 22.0 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF134252.D

Acq: 12 Jul 2023 18:05

Instrument :

BNA_F

ClientSampleId :

ETGI-369

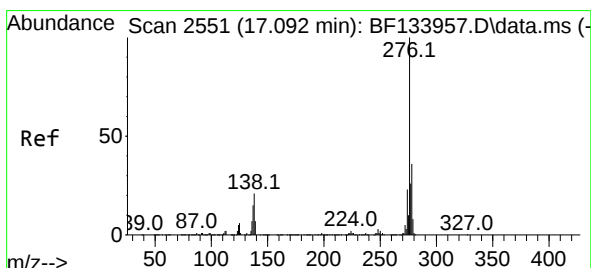
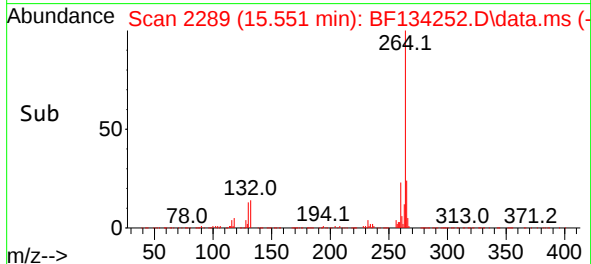
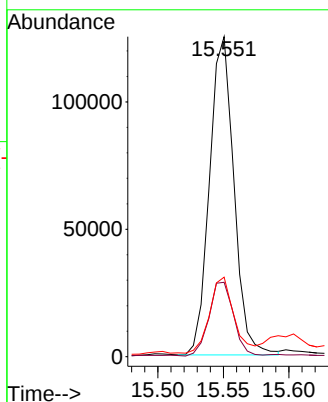
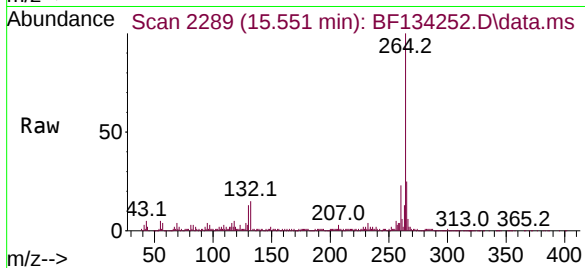
Tgt Ion:264 Resp: 16180
 Ion Ratio Lower Upper
 264 100
 260 23.3 19.5 29.3
 265 24.8 16.6 25.0

Manual Integrations

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Reviewed By :Yogesh Patel 07/13/2023

Supervised By :mohammad ahmed 07/13/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 17.485 ng

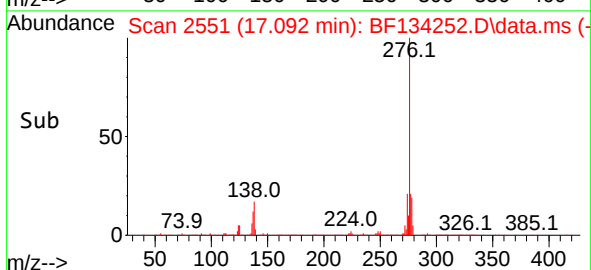
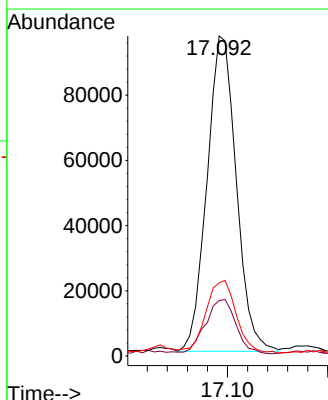
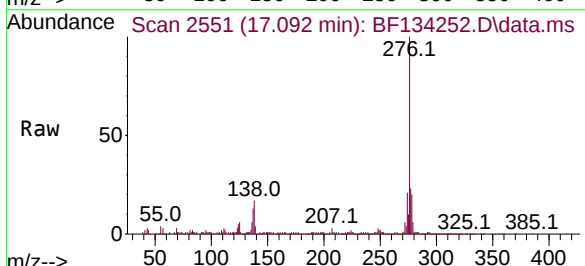
RT: 17.092 min Scan# 2551

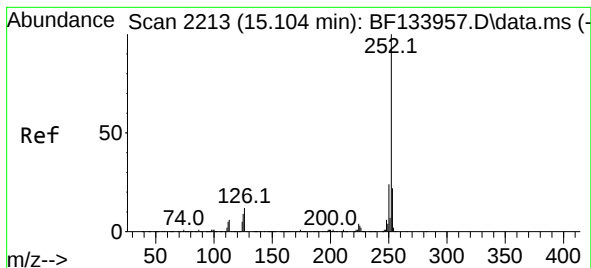
Delta R.T. -0.006 min

Lab File: BF134252.D

Acq: 12 Jul 2023 18:05

Tgt Ion:276 Resp: 196314
 Ion Ratio Lower Upper
 276 100
 138 18.3 18.7 28.1#
 277 23.9 19.9 29.9





#88

Benzo(b)fluoranthene

Concen: 79.726 ng m

RT: 15.109 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF134252.D

Acq: 12 Jul 2023 18:05

Instrument :

BNA_F

ClientSampleId :

ETGI-369

Tgt Ion:252 Resp: 75851

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.0

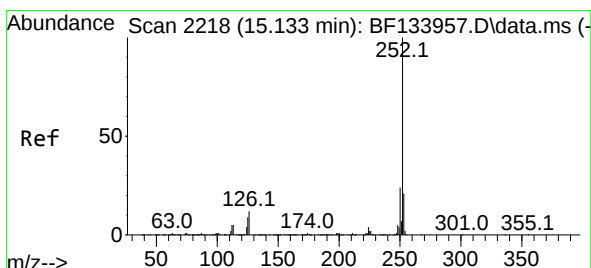
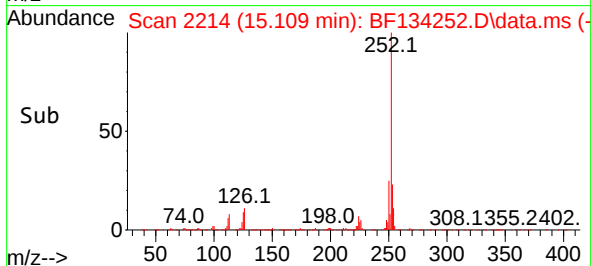
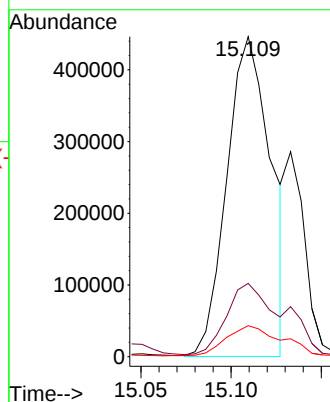
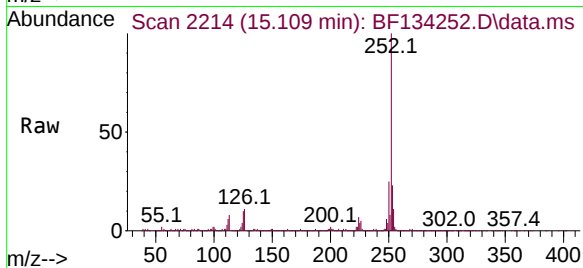
125 9.7 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/13/2023

Supervised By :mohammad ahmed 07/13/2023



#89

Benzo(k)fluoranthene

Concen: 21.231 ng m

RT: 15.133 min Scan# 2218

Delta R.T. -0.000 min

Lab File: BF134252.D

Acq: 12 Jul 2023 18:05

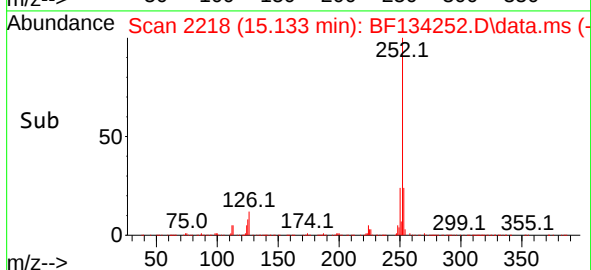
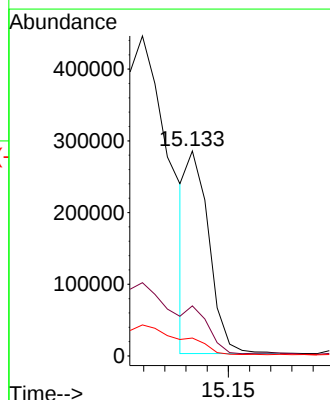
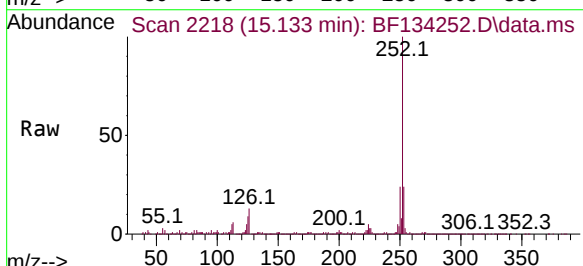
Tgt Ion:252 Resp: 205658

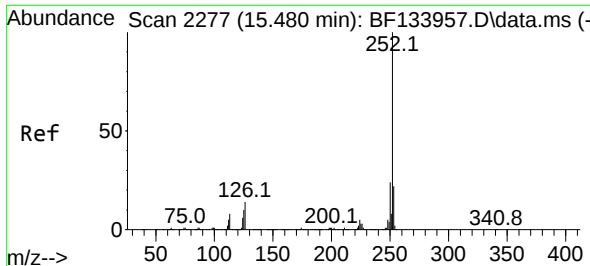
Ion Ratio Lower Upper

252 100

253 24.4 16.9 25.3

125 8.7 7.4 11.2





#90
Benzo(a)pyrene
Concen: 39.879 ng
RT: 15.486 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Instrument :

BNA_F

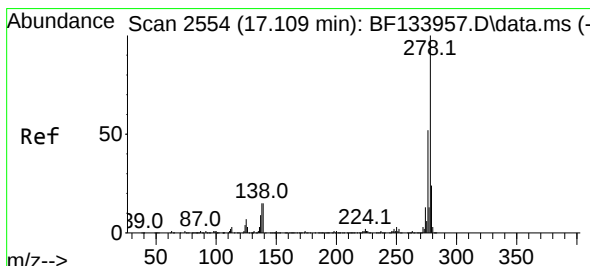
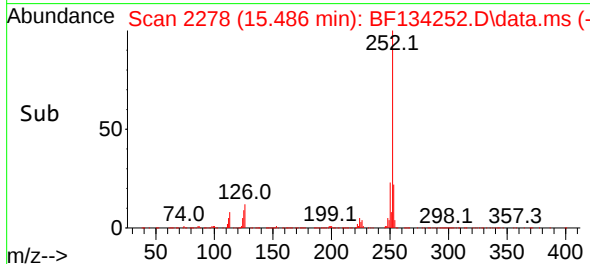
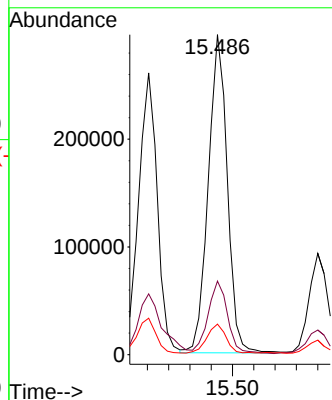
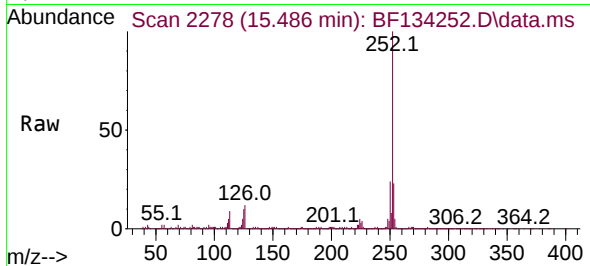
ClientSampleId :

ETGI-369

Tgt Ion:252 Resp: 366889
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.0
125 9.6 8.4 12.6

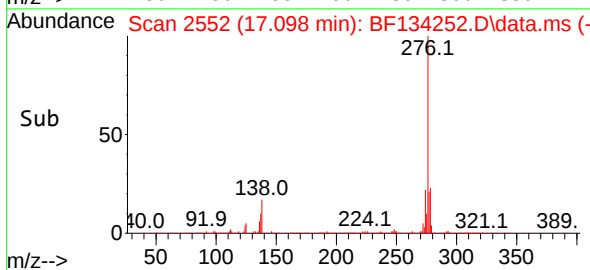
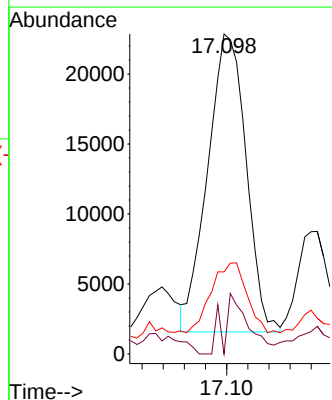
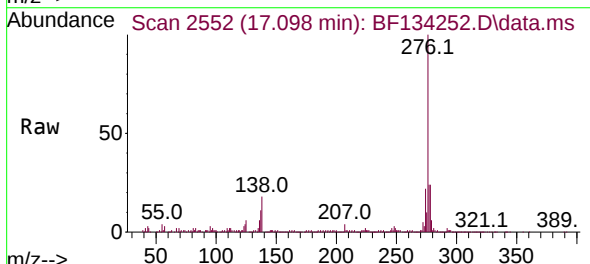
Manual Integrations
APPROVED

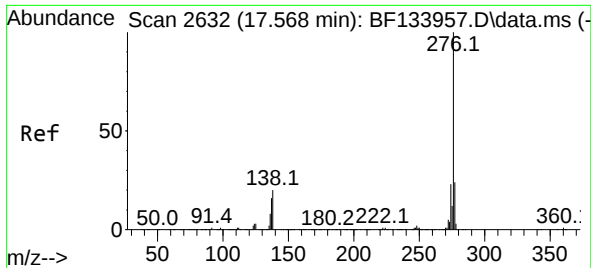
Reviewed By :Yogesh Patel 07/13/2023
Supervised By :mohammad ahmed 07/13/2023



#91
Dibenzo(a,h)anthracene
Concen: 5.861 ng m
RT: 17.098 min Scan# 2552
Delta R.T. -0.018 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

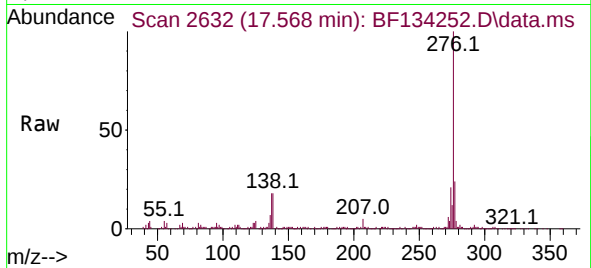
Tgt Ion:278 Resp: 53747
Ion Ratio Lower Upper
278 100
139 0.0 12.2 18.4#
279 25.7 19.4 29.2





#92
Benzo(g,h,i)perylene
Concen: 17.994 ng
RT: 17.568 min Scan# 20
Delta R.T. -0.000 min
Lab File: BF134252.D
Acq: 12 Jul 2023 18:05

Instrument :
BNA_F
ClientSampleId :
ETGI-369



Tgt Ion: 276 Resp: 170169
Ion Ratio Lower Upper
276 100
277 23.9 19.0 28.6
138 18.5 16.2 24.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/13/2023
Supervised By :mohammad ahmed 07/13/2023

