

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011224\
 Data File : BF137056.D
 Acq On : 12 Jan 2024 18:54
 Operator : CG\JU
 Sample : P1107-01 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-11124

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 01/15/2024
 Supervised By :mohammad ahmed 01/16/2024

Quant Time: Jan 12 22:14:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 21 01:54:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	53954	20.000	ng	-0.01
21) Naphthalene-d8	8.057	136	187364	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	80922	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	134897	20.000	ng	0.00
76) Chrysene-d12	13.974	240	112408	20.000	ng	0.00
86) Perylene-d12	15.463	264	91901	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	57957	16.760	ng	0.00
7) Phenol-d6	6.434	99	71103	15.869	ng	0.00
23) Nitrobenzene-d5	7.345	82	40260	10.995	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	14474	15.187	ng	0.00
45) 2-Fluorobiphenyl	9.134	172	82045	13.637	ng	-0.02
79) Terphenyl-d14	12.904	244	75254	9.356	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.081	128	87780	8.528	ng	98
37) 2-Methylnaphthalene	8.775	142	32080	4.843	ng	96
38) 1-Methylnaphthalene	8.869	142	18831	2.897	ng	99
52) Acenaphthene	9.851	154	52177	10.668	ng	99
55) Dibenzofuran	10.022	168	91513	12.343	ng	98
58) Fluorene	10.369	166	131418	22.339	ng	100
71) Phenanthrene	11.339	178	731407	105.669	ng	99
72) Anthracene	11.392	178	257365	36.715	ng	99
73) Carbazole	11.551	167	70433	10.657	ng	99
75) Fluoranthene	12.539	202	846375	114.317	ng	97
78) Pyrene	12.769	202	665665	60.325	ng	100
81) Benzo(a)anthracene	13.963	228	364516	46.700	ng	97
83) Chrysene	14.004	228	298699	39.133	ng	95
87) Indeno(1,2,3-cd)pyrene	16.986	276	93191	14.045	ng	96
88) Benzo(b)fluoranthene	15.027	252	285890m	46.576	ng	
89) Benzo(k)fluoranthene	15.051	252	99796m	17.206	ng	
90) Benzo(a)pyrene	15.404	252	192235	37.102	ng	95
91) Dibenzo(a,h)anthracene	16.992	278	25269	4.642	ng	# 87
92) Benzo(g,h,i)perylene	17.451	276	81544	14.625	ng	97

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

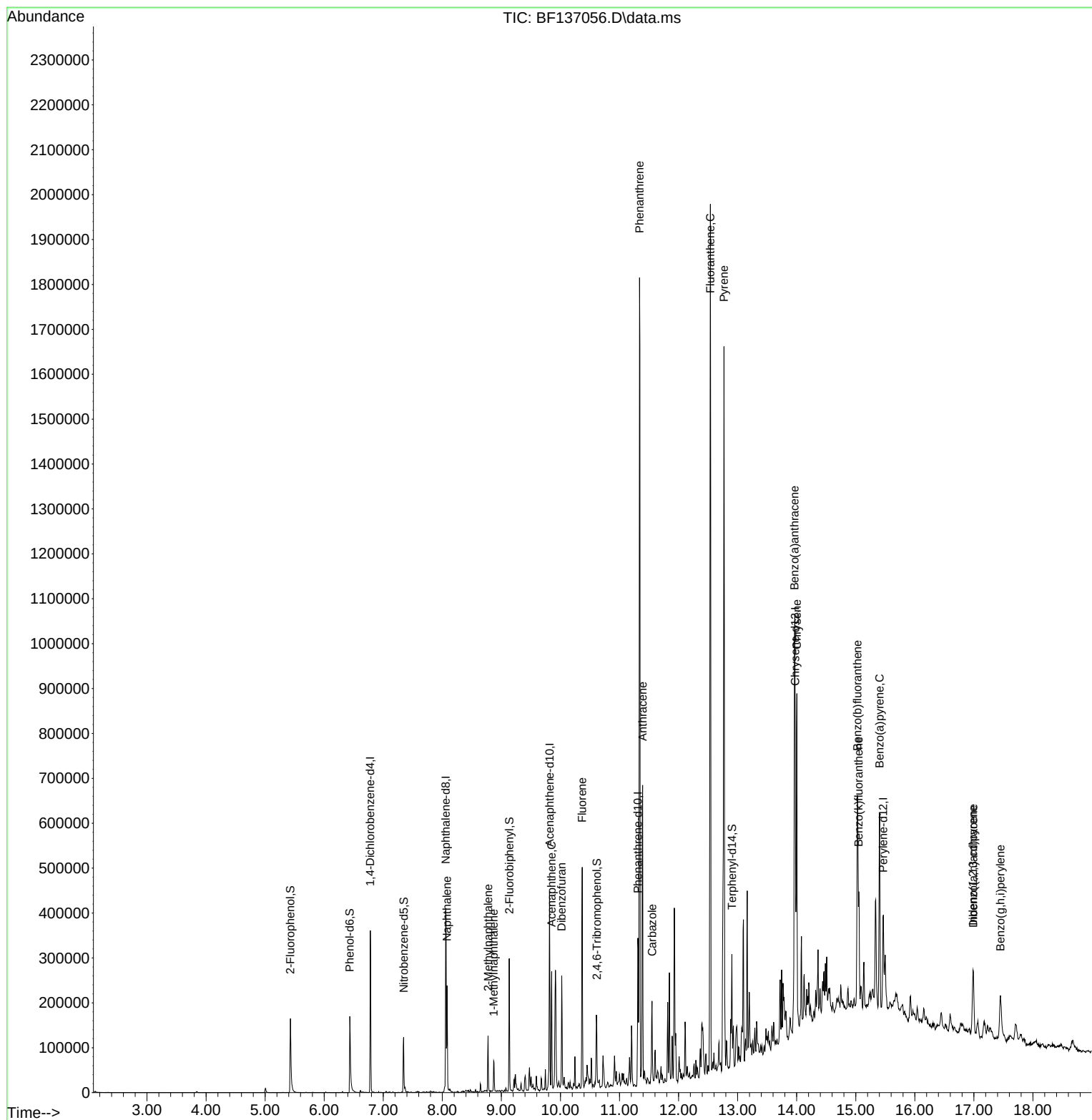
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011224\
Data File : BF137056.D
Acq On : 12 Jan 2024 18:54
Operator : CG\JU
Sample : P1107-01 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

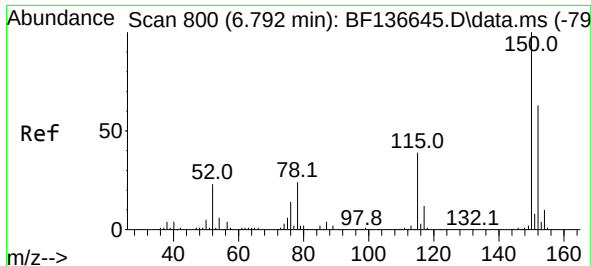
Instrument :
BNA_F
ClientSampleId :
OK-01-11124

Quant Time: Jan 12 22:14:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 21 01:54:25 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

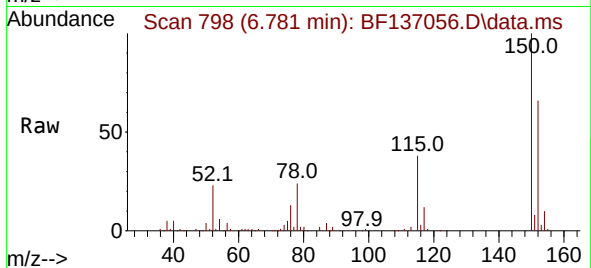
Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.011 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

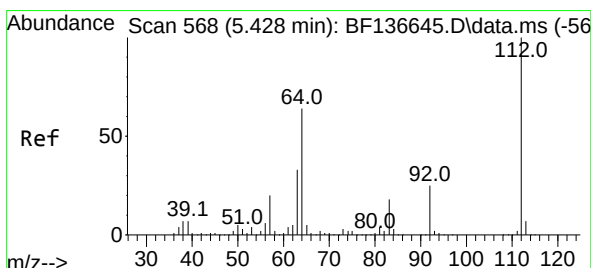
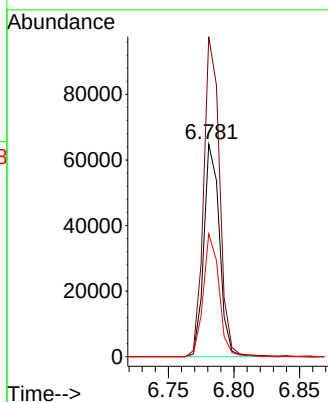
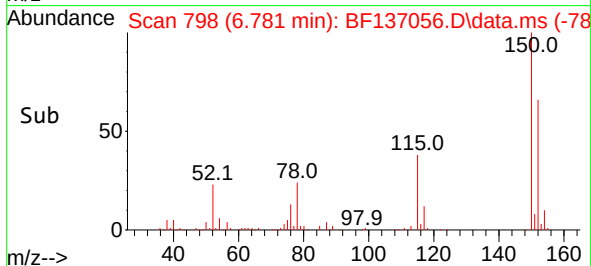
Instrument :
BNA_F
ClientSampleId :
OK-01-11124



Tgt Ion:152 Resp: 53954
Ion Ratio Lower Upper
152 100
150 150.5 127.0 190.6
115 57.8 49.0 73.4

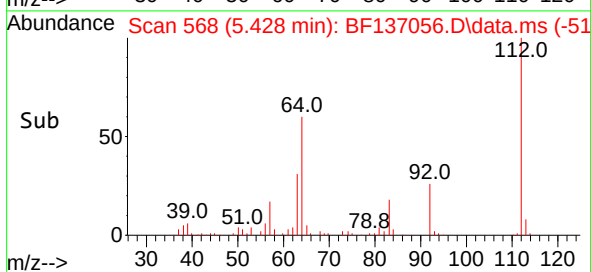
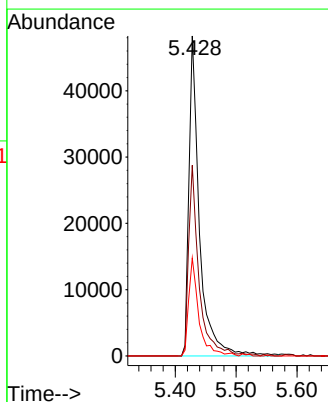
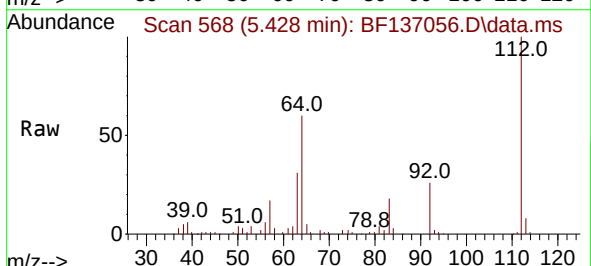
Manual Integrations
APPROVED

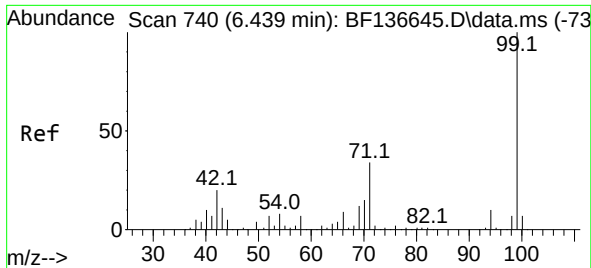
Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024



#5
2-Fluorophenol
Concen: 16.760 ng
RT: 5.428 min Scan# 568
Delta R.T. 0.000 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

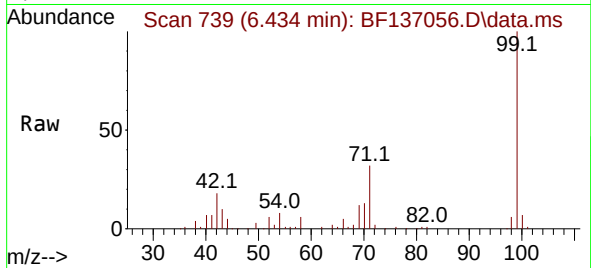
Tgt Ion:112 Resp: 57957
Ion Ratio Lower Upper
112 100
64 59.6 51.1 76.7
63 30.6 26.1 39.1





#7
Phenol-d6
Concen: 15.869 ng
RT: 6.434 min Scan# 7110
Delta R.T. -0.006 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

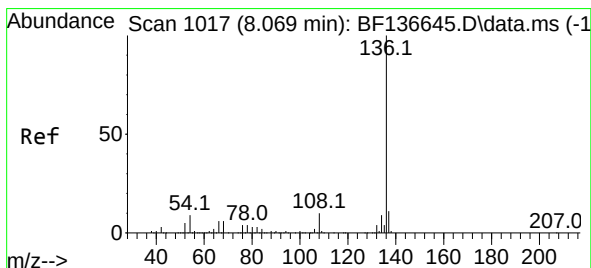
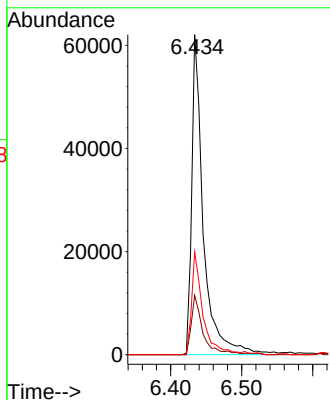
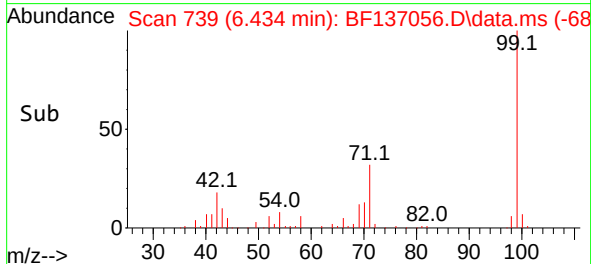
Instrument :
BNA_F
ClientSampleId :
OK-01-11124



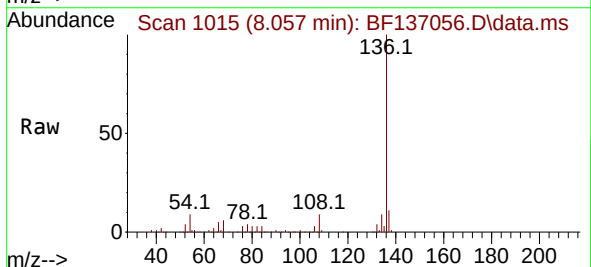
Tgt Ion: 99 Resp: 7110
Ion Ratio Lower Upper
99 100
42 18.5 16.1 24.1
71 32.1 27.4 41.2

Manual Integrations
APPROVED

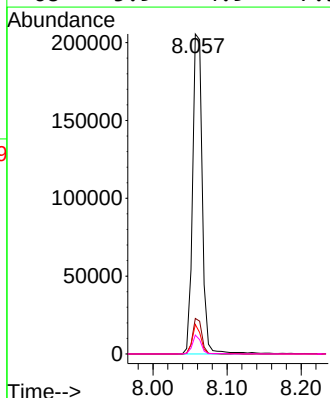
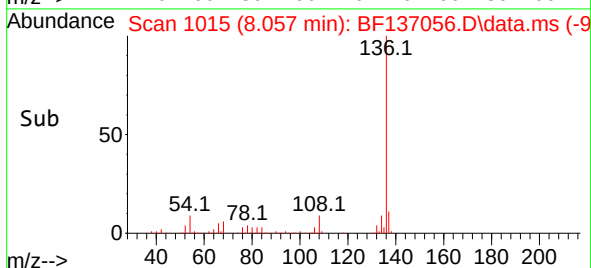
Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024

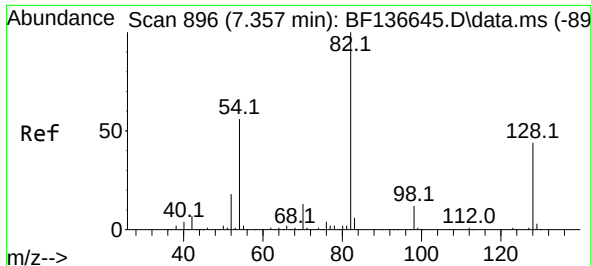


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.057 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54



Tgt Ion:136 Resp: 187364
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.4
54 9.2 7.2 10.8
68 5.9 4.9 7.3





#23
Nitrobenzene-d5
Concen: 10.995 ng
RT: 7.345 min Scan# 89
Delta R.T. -0.012 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

Instrument :

BNA_F

ClientSampleId :

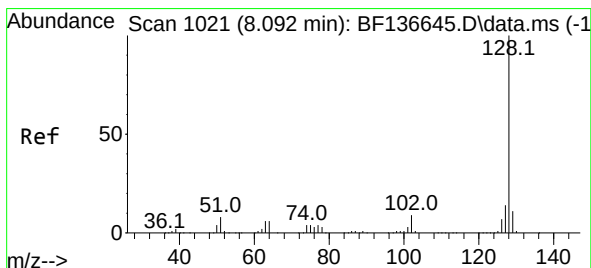
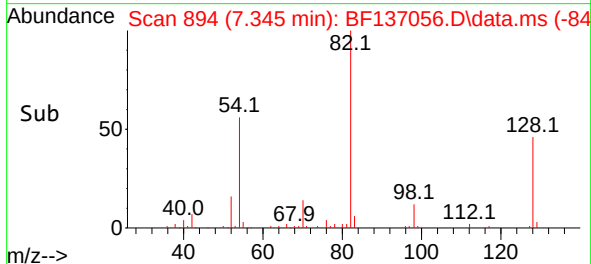
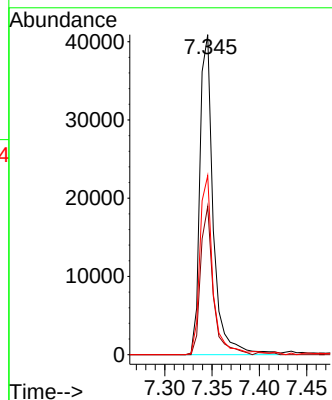
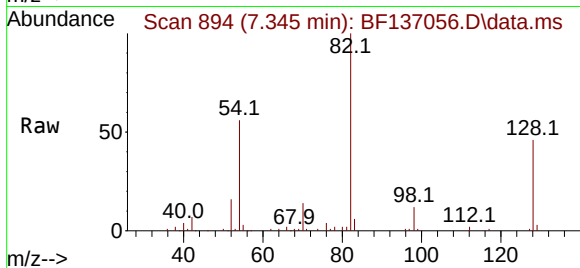
OK-01-11124

Tgt Ion: 82 Resp: 40260
Ion Ratio Lower Upper
82 100
128 46.3 35.3 52.9
54 56.0 44.5 66.7

Manual Integrations

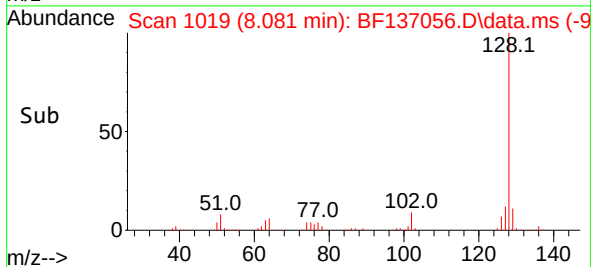
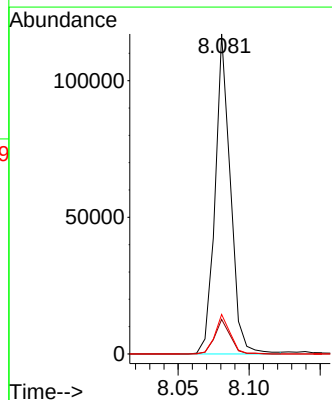
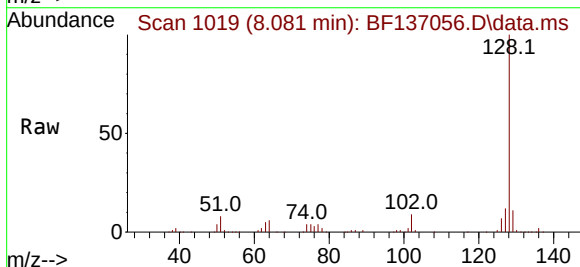
APPROVED

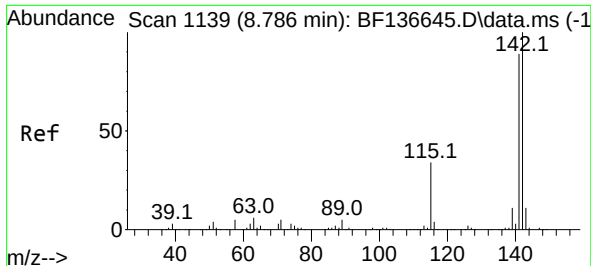
Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024



#31
Naphthalene
Concen: 8.528 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.012 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

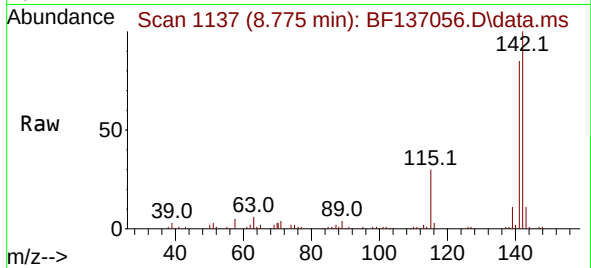
Tgt Ion:128 Resp: 87780
Ion Ratio Lower Upper
128 100
129 10.8 8.7 13.1
127 12.4 10.8 16.2





#37
2-Methylnaphthalene
Concen: 4.843 ng
RT: 8.775 min Scan# 1137
Delta R.T. -0.012 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

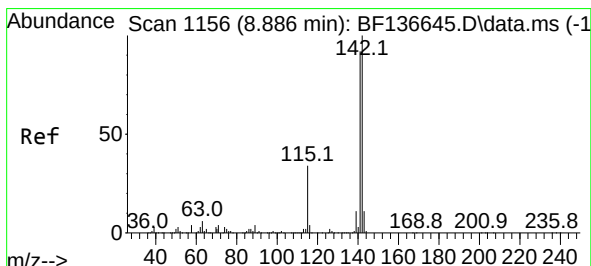
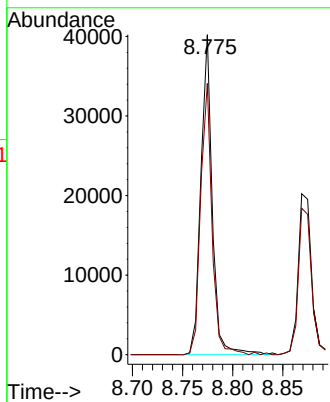
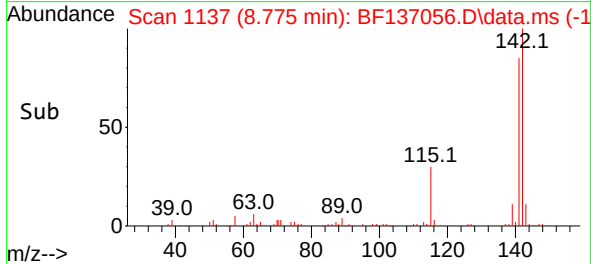
Instrument :
BNA_F
ClientSampleId :
OK-01-11124



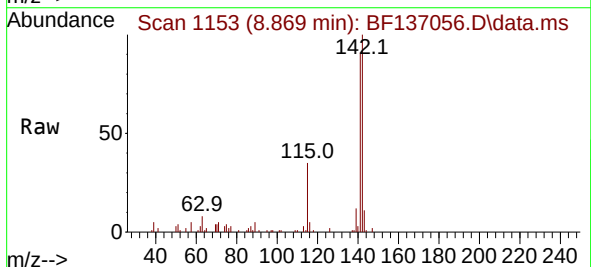
Tgt Ion:142 Resp: 32080
Ion Ratio Lower Upper
142 100
141 84.8 71.1 106.7

Manual Integrations
APPROVED

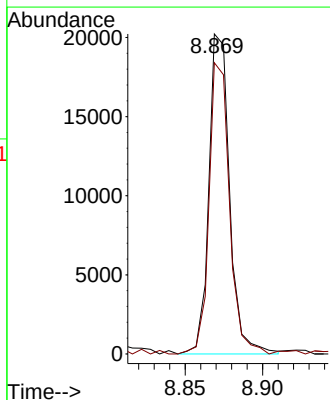
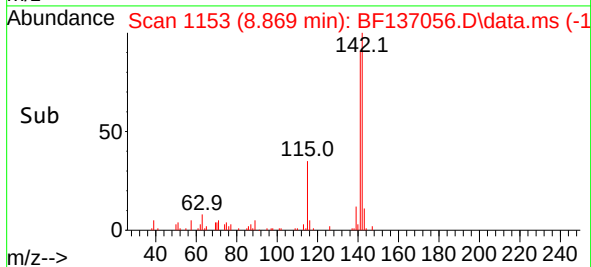
Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024

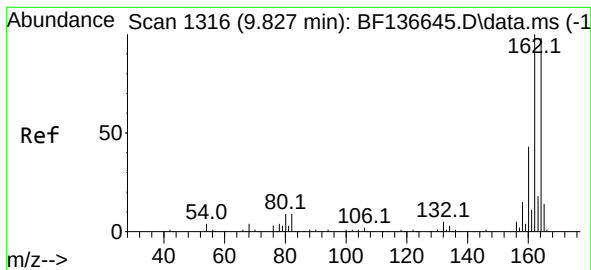


#38
1-Methylnaphthalene
Concen: 2.897 ng
RT: 8.869 min Scan# 1153
Delta R.T. -0.017 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54



Tgt Ion:142 Resp: 18831
Ion Ratio Lower Upper
142 100
141 91.0 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

Instrument :

BNA_F

ClientSampleId :

OK-01-11124

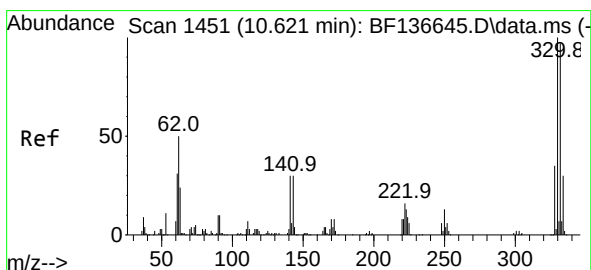
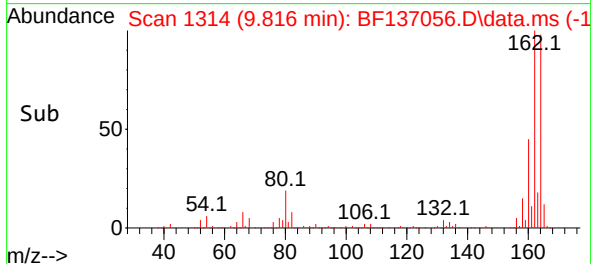
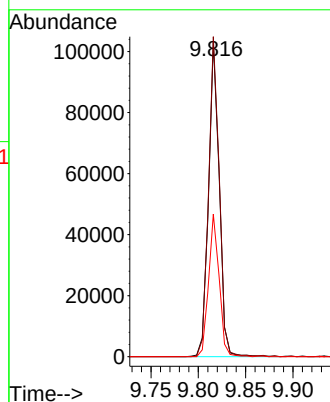
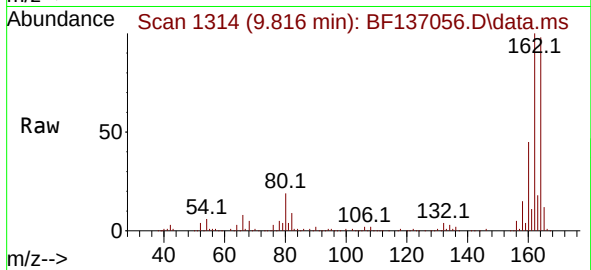
Tgt Ion:164 Resp: 8092

Ion	Ratio	Lower	Upper
164	100		
162	101.8	81.6	122.4
160	45.4	34.9	52.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024



#42

2,4,6-Tribromophenol

Concen: 15.187 ng

RT: 10.616 min Scan# 1450

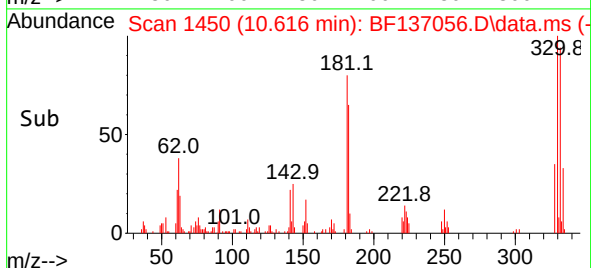
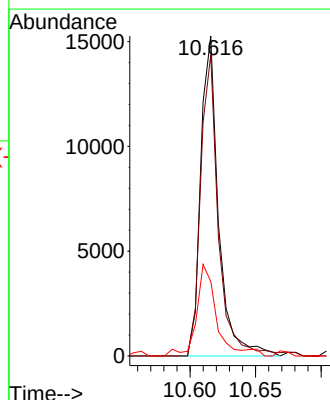
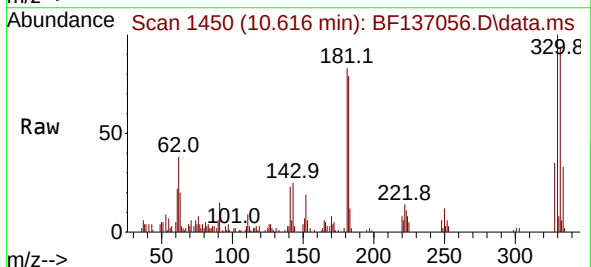
Delta R.T. -0.006 min

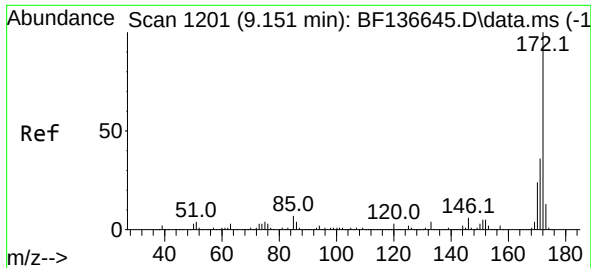
Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

Tgt Ion:330 Resp: 14474

Ion	Ratio	Lower	Upper
330	100		
332	93.9	77.4	116.0
141	32.1	23.4	35.2





#45
2-Fluorobiphenyl
Concen: 13.637 ng
RT: 9.134 min Scan# 1198
Delta R.T. -0.017 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

Instrument :

BNA_F

ClientSampleId :

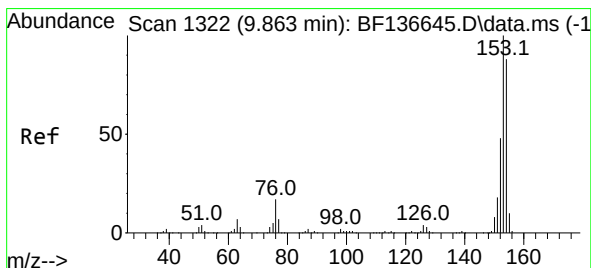
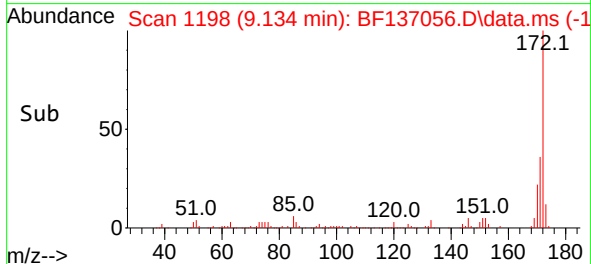
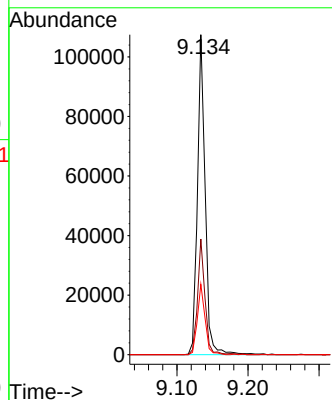
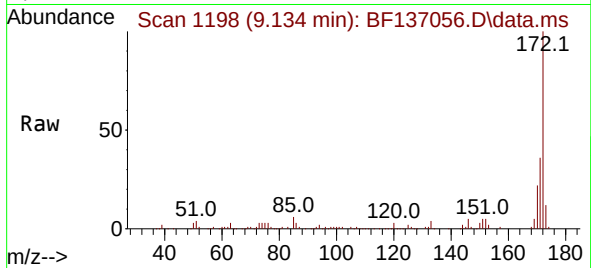
OK-01-11124

Tgt Ion:172 Resp: 82045
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.6
170 22.0 19.0 28.4

Manual Integrations

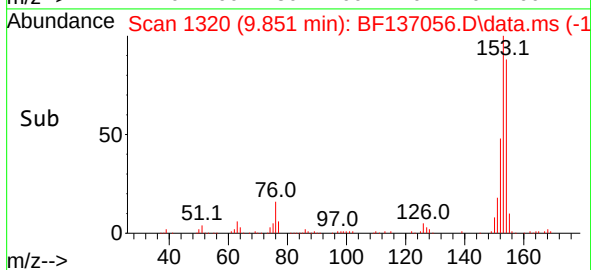
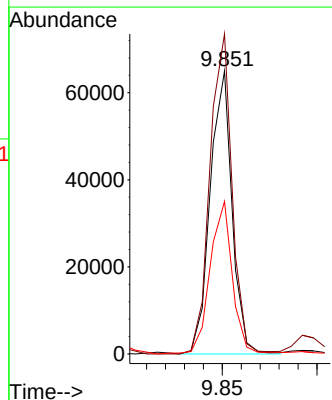
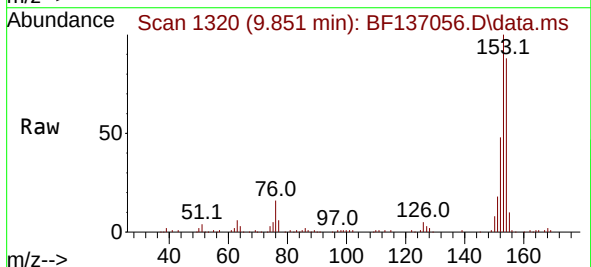
APPROVED

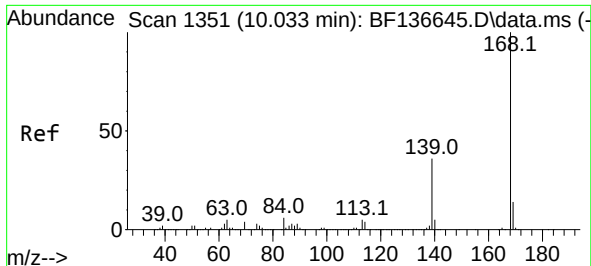
Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024



#52
Acenaphthene
Concen: 10.668 ng
RT: 9.851 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

Tgt Ion:154 Resp: 52177
Ion Ratio Lower Upper
154 100
153 113.1 90.7 136.1
152 53.9 43.7 65.5





#55
Dibenzenofuran
Concen: 12.343 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

Instrument :

BNA_F

ClientSampleId :

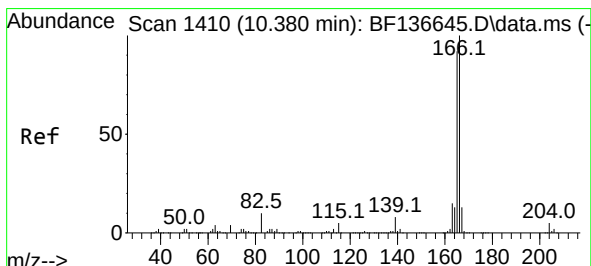
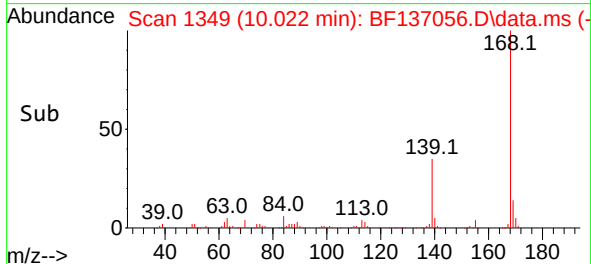
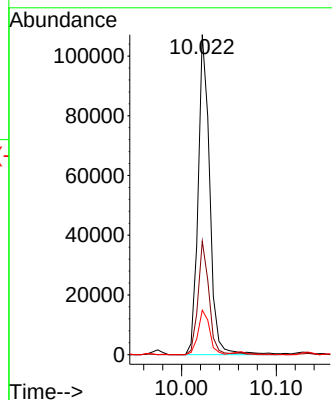
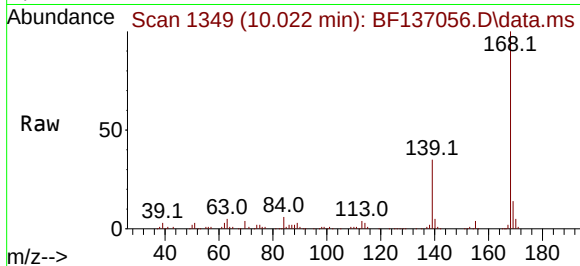
OK-01-11124

Tgt Ion:168 Resp: 9151
Ion Ratio Lower Upper
168 100
139 35.5 29.3 43.9
169 13.9 11.0 16.4

Manual Integrations

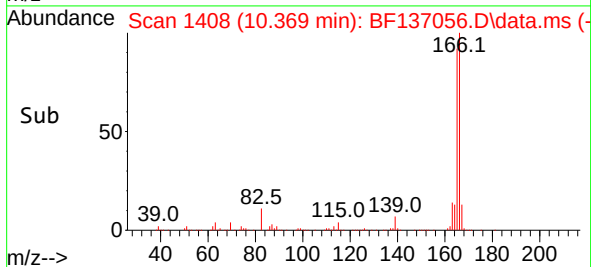
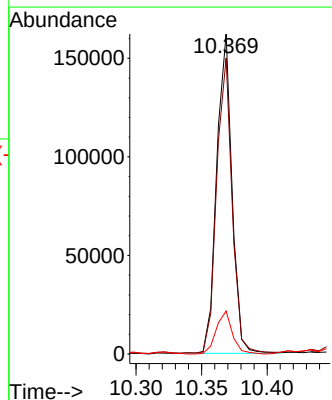
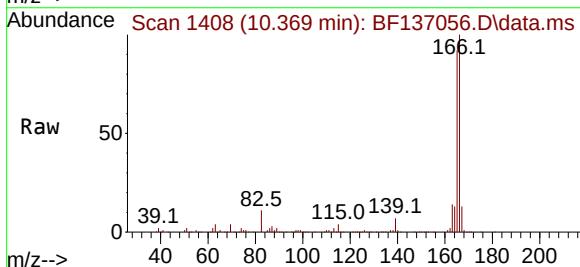
APPROVED

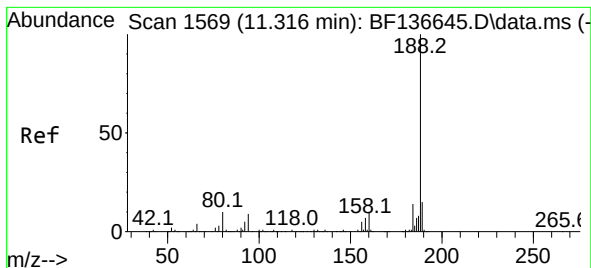
Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024



#58
Fluorene
Concen: 22.339 ng
RT: 10.369 min Scan# 1408
Delta R.T. -0.012 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

Tgt Ion:166 Resp: 131418
Ion Ratio Lower Upper
166 100
165 92.5 73.7 110.5
167 13.4 10.4 15.6





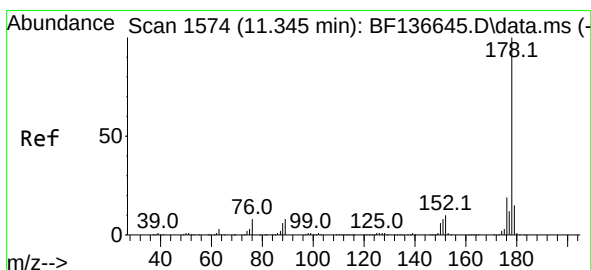
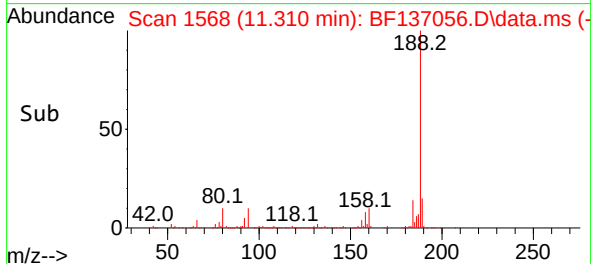
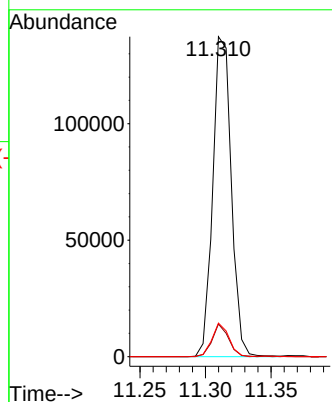
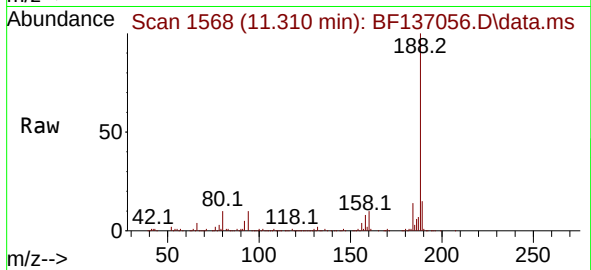
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

Instrument :
BNA_F
ClientSampleId :
OK-01-11124

Tgt Ion:188 Resp: 13489
Ion Ratio Lower Upper
188 100
94 10.2 7.5 11.3
80 10.5 8.1 12.1

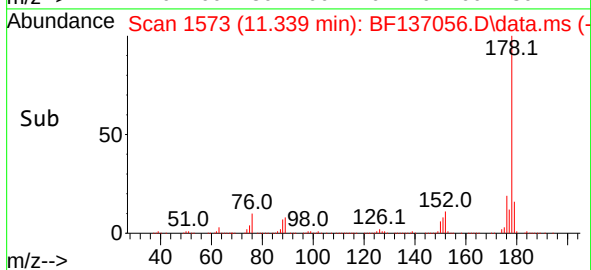
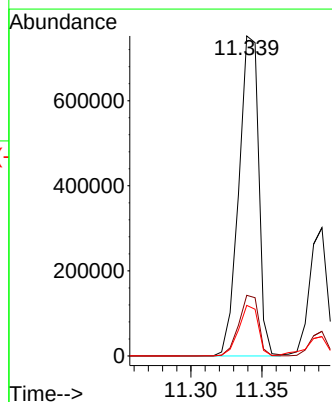
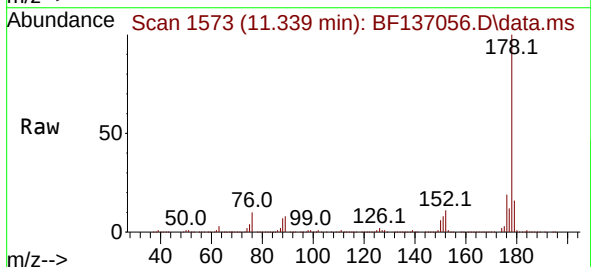
Manual Integrations
APPROVED

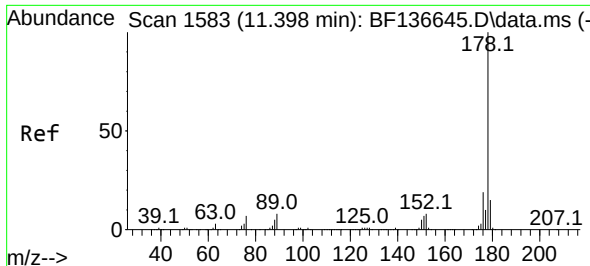
Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024



#71
Phenanthrene
Concen: 105.669 ng
RT: 11.339 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

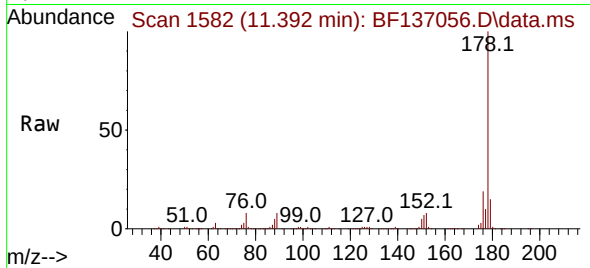
Tgt Ion:178 Resp: 731407
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.8 11.9 17.9





#72
 Anthracene
 Concen: 36.715 ng
 RT: 11.392 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF137056.D
 Acq: 12 Jan 2024 18:54

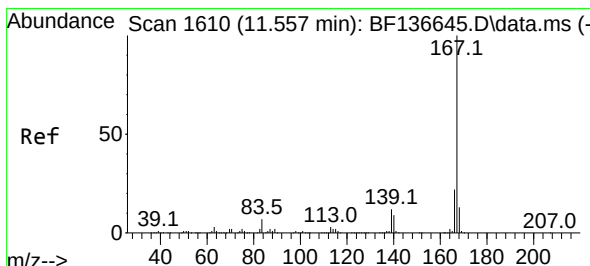
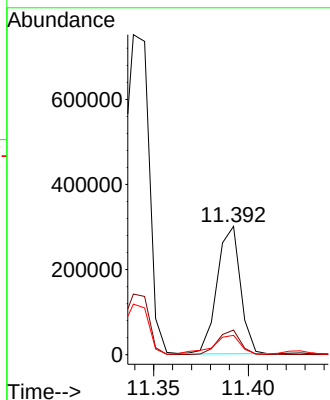
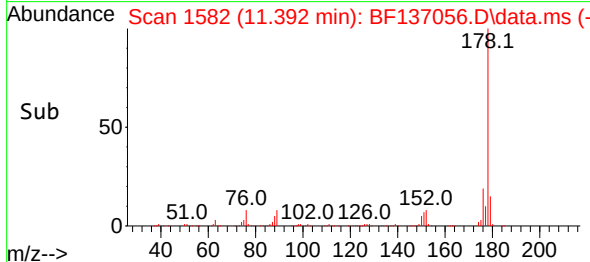
Instrument :
 BNA_F
 ClientSampleId :
 OK-01-11124



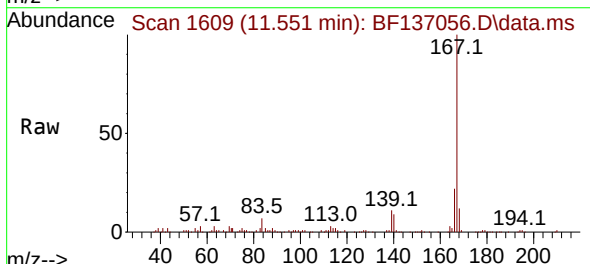
Tgt Ion:178 Resp: 25736
 Ion Ratio Lower Upper
 178 100
 176 19.3 14.9 22.3
 179 15.2 11.8 17.6

Manual Integrations
 APPROVED

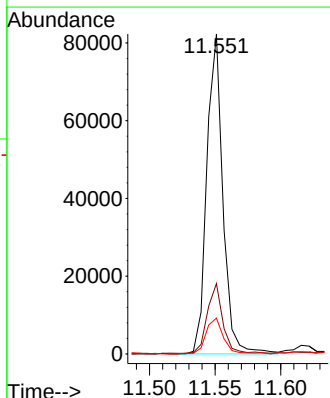
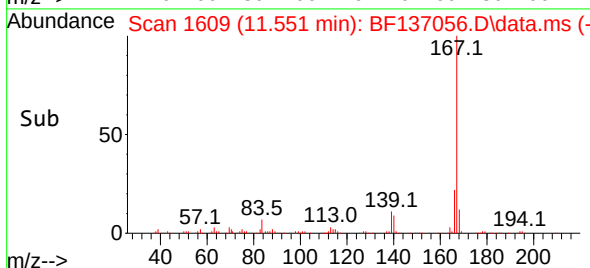
Reviewed By :Jagrut Upadhyay 01/15/2024
 Supervised By :mohammad ahmed 01/16/2024

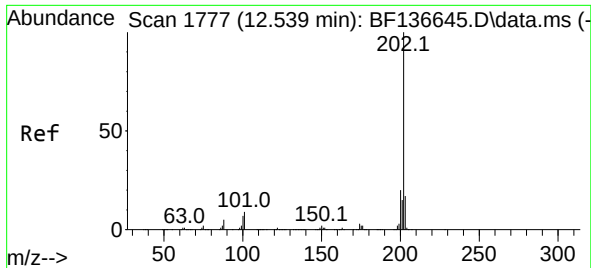


#73
 Carbazole
 Concen: 10.657 ng
 RT: 11.551 min Scan# 1609
 Delta R.T. -0.006 min
 Lab File: BF137056.D
 Acq: 12 Jan 2024 18:54



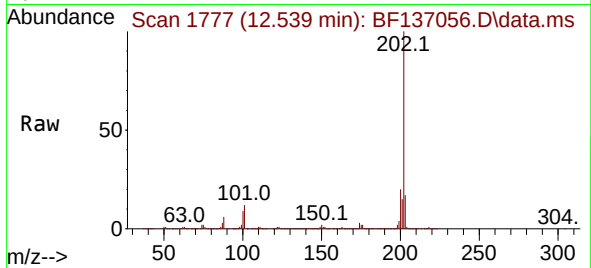
Tgt Ion:167 Resp: 70433
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.3 25.9
 139 11.2 9.8 14.6





#75
Fluoranthene
Concen: 114.317 ng
RT: 12.539 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

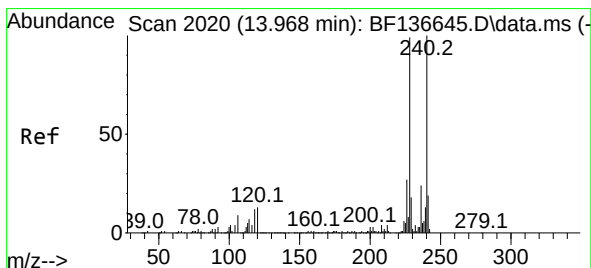
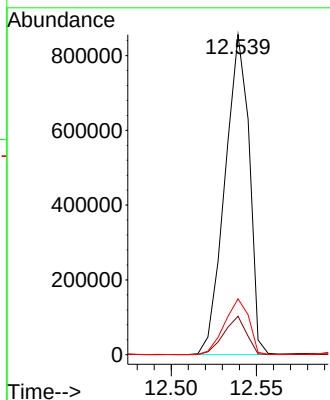
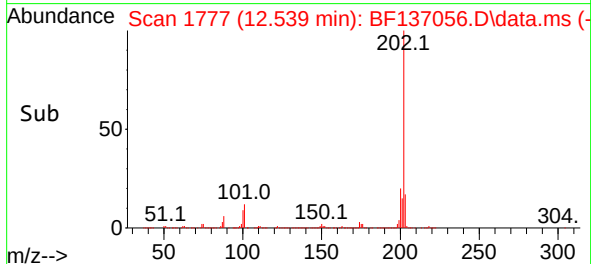
Instrument :
BNA_F
ClientSampleId :
OK-01-11124



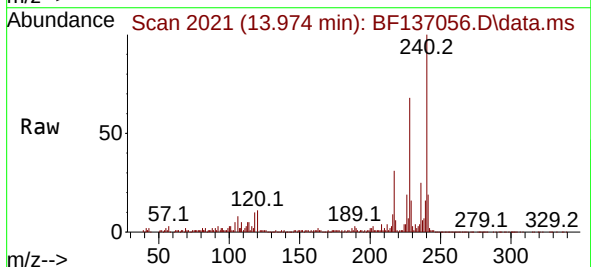
Tgt Ion:202 Resp: 846375
Ion Ratio Lower Upper
202 100
101 12.0 0.0 29.3
203 17.5 0.0 37.1

Manual Integrations
APPROVED

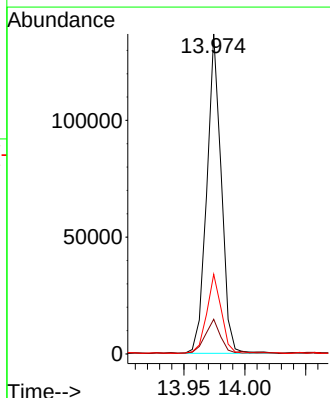
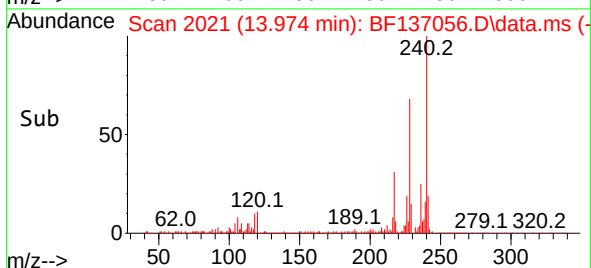
Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024

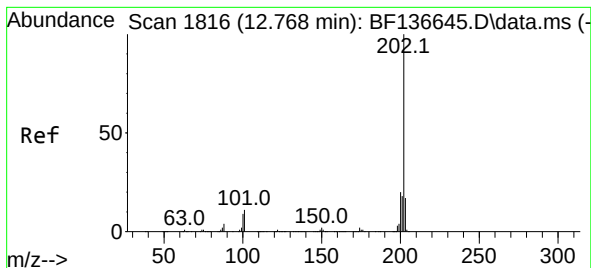


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54



Tgt Ion:240 Resp: 112408
Ion Ratio Lower Upper
240 100
120 10.8 10.3 15.5
236 24.9 19.4 29.2





#78

Pyrene

Concen: 60.325 ng

RT: 12.769 min Scan# 1816

Delta R.T. 0.000 min

Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

Instrument :

BNA_F

ClientSampleId :

OK-01-11124

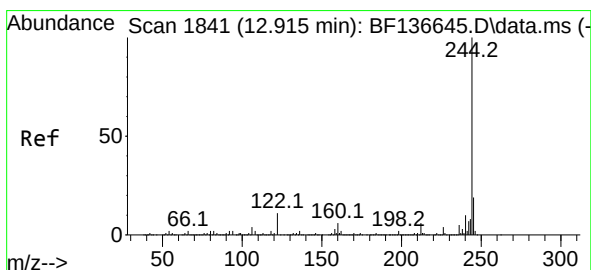
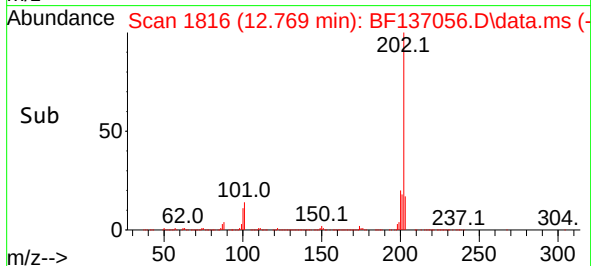
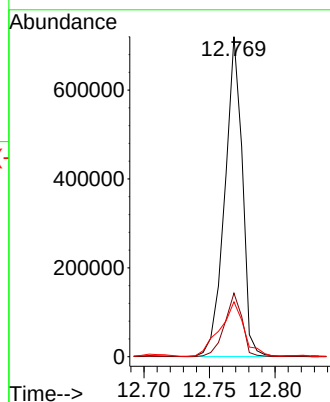
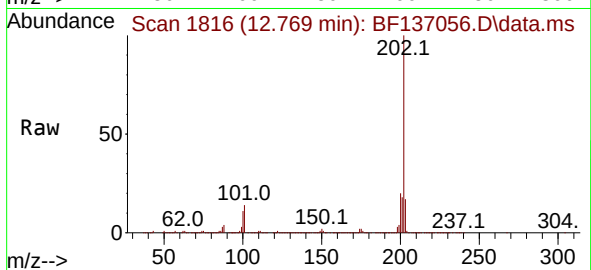
Tgt Ion:202 Resp: 66566

Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.9	23.9
203	17.1	13.8	20.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024



#79

Terphenyl-d14

Concen: 9.356 ng

RT: 12.904 min Scan# 1839

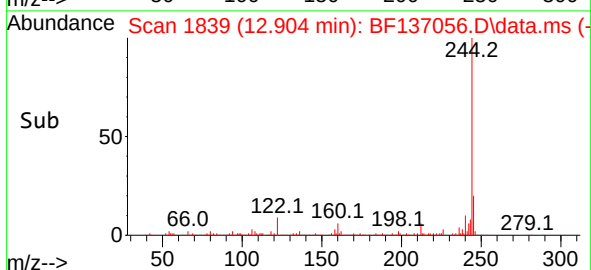
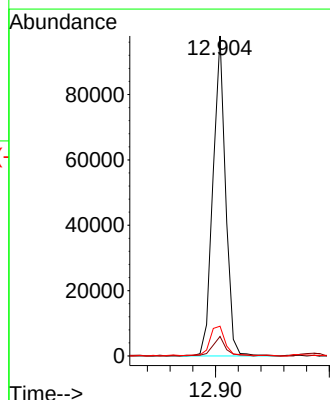
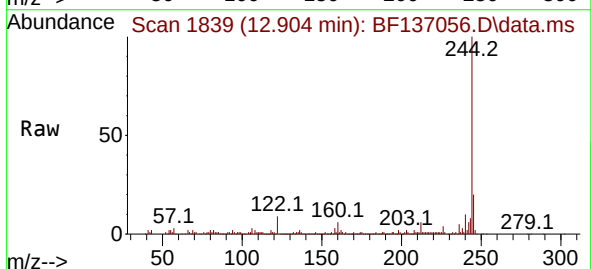
Delta R.T. -0.012 min

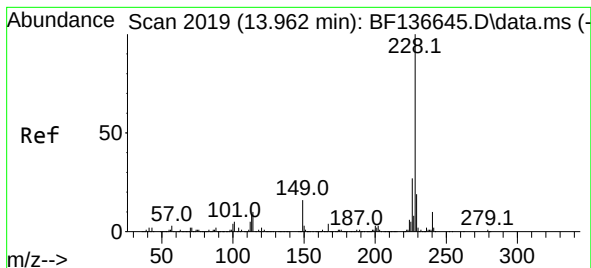
Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

Tgt Ion:244 Resp: 75254

Ion	Ratio	Lower	Upper
244	100		
212	6.1	5.0	7.4
122	9.3	9.0	13.4





#81

Benzo(a)anthracene

Concen: 46.700 ng

RT: 13.963 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

Instrument :

BNA_F

ClientSampleId :

OK-01-11124

Tgt Ion:228 Resp: 364510

Ion Ratio Lower Upper

228 100

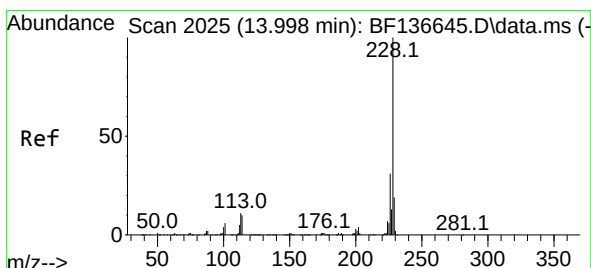
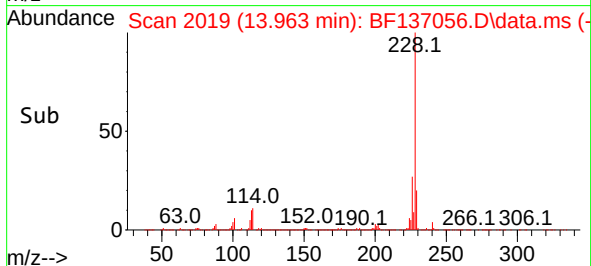
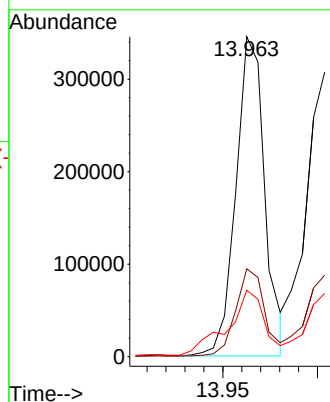
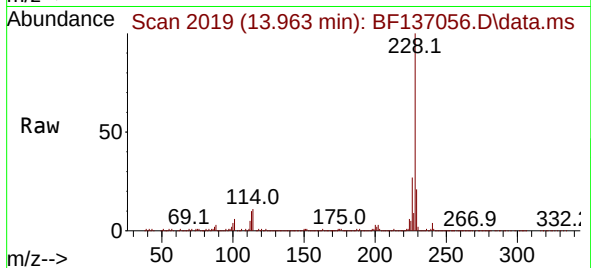
226 27.4 21.4 32.0

229 20.8 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024



#83

Chrysene

Concen: 39.133 ng

RT: 14.004 min Scan# 2026

Delta R.T. 0.006 min

Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

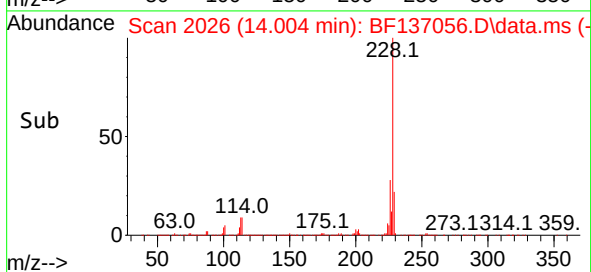
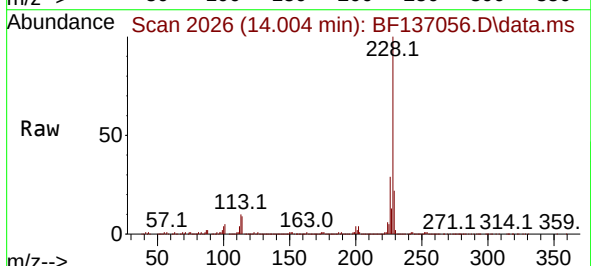
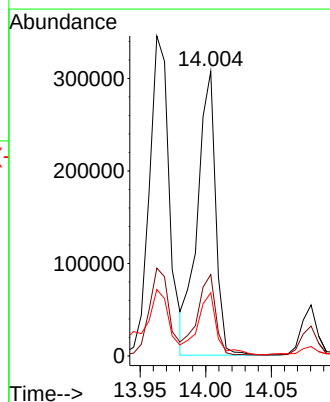
Tgt Ion:228 Resp: 298699

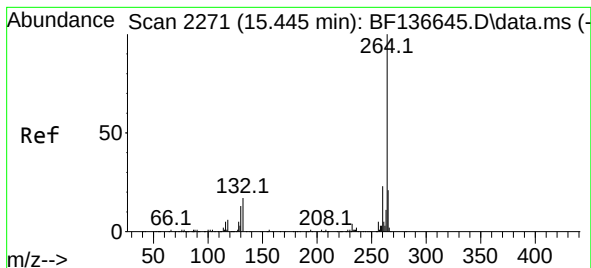
Ion Ratio Lower Upper

228 100

226 28.6 24.7 37.1

229 22.2 15.4 23.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.463 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

Instrument :

BNA_F

ClientSampleId :

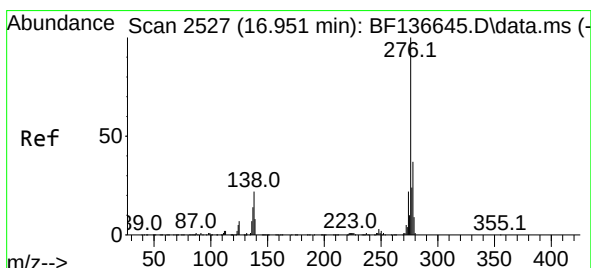
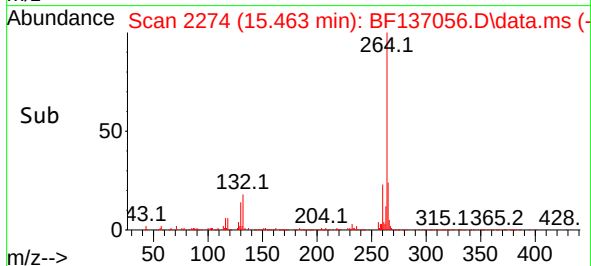
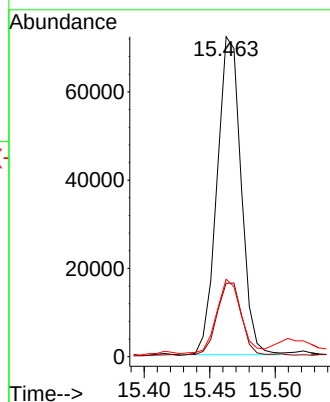
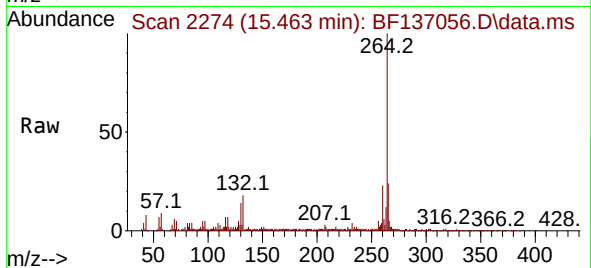
OK-01-11124

Tgt Ion:	264	Resp:	9190
Ion Ratio	Lower	Upper	
264	100		
260	23.0	18.3	27.5
265	24.2	17.0	25.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 14.045 ng

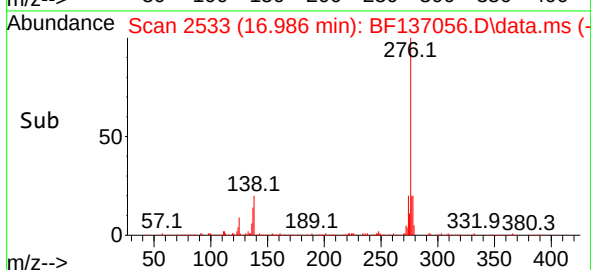
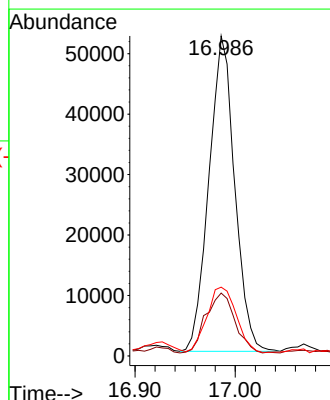
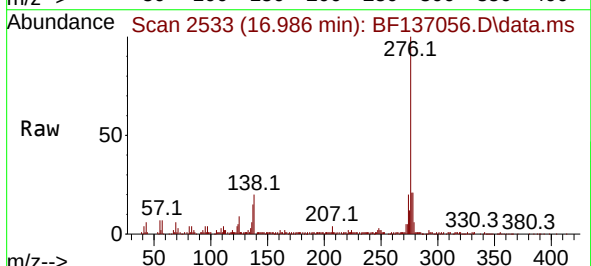
RT: 16.986 min Scan# 2533

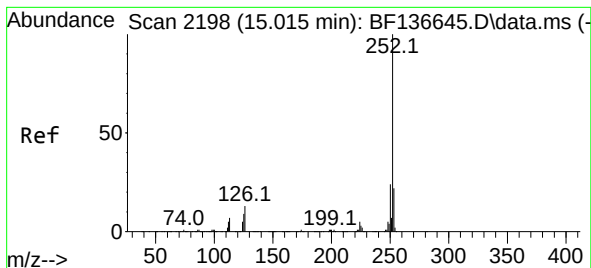
Delta R.T. 0.035 min

Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

Tgt Ion:	276	Resp:	93191
Ion Ratio	Lower	Upper	
276	100		
138	21.5	18.7	28.1
277	23.3	20.2	30.2





#88

Benzo(b)fluoranthene

Concen: 46.576 ng m

RT: 15.027 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

Instrument :

BNA_F

ClientSampleId :

OK-01-11124

Tgt Ion:252 Resp: 285890

Ion Ratio Lower Upper

252 100

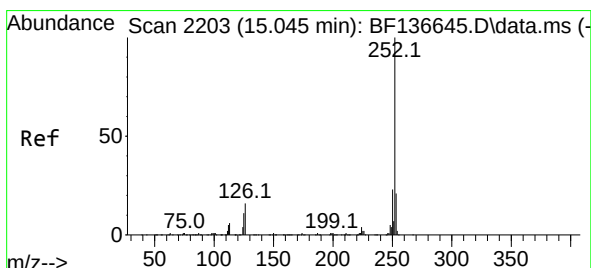
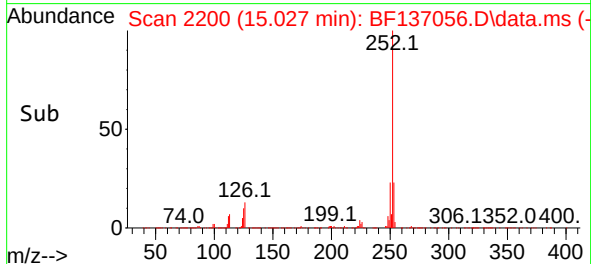
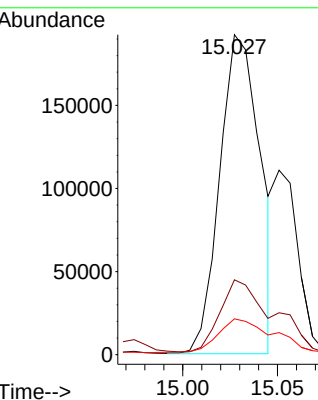
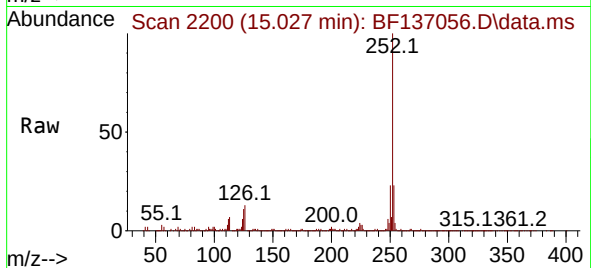
253 23.4 17.4 26.0

125 11.2 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024



#89

Benzo(k)fluoranthene

Concen: 17.206 ng m

RT: 15.051 min Scan# 2204

Delta R.T. 0.006 min

Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

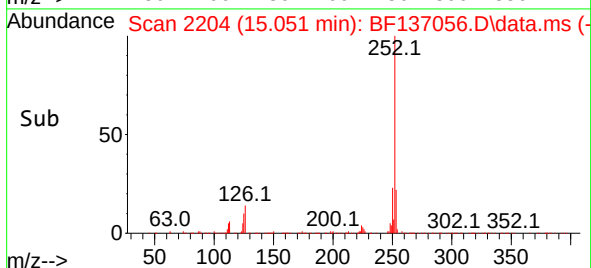
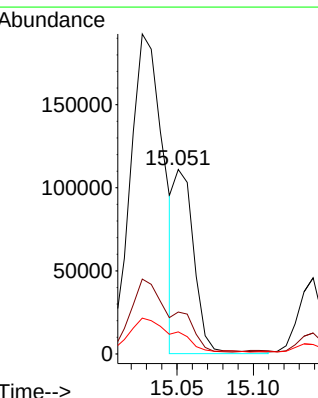
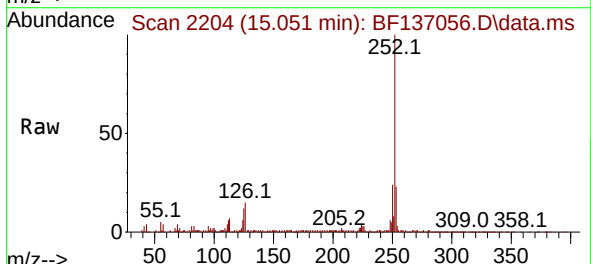
Tgt Ion:252 Resp: 99796

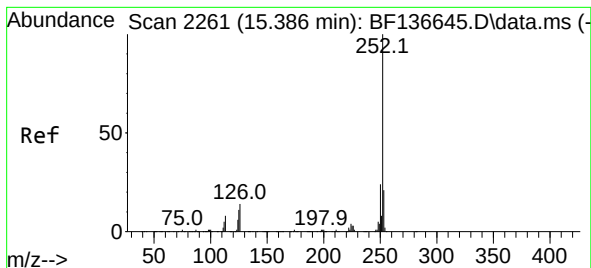
Ion Ratio Lower Upper

252 100

253 22.7 17.0 25.6

125 12.0 8.2 12.4





#90

Benzo(a)pyrene

Concen: 37.102 ng

RT: 15.404 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

Instrument :

BNA_F

ClientSampleId :

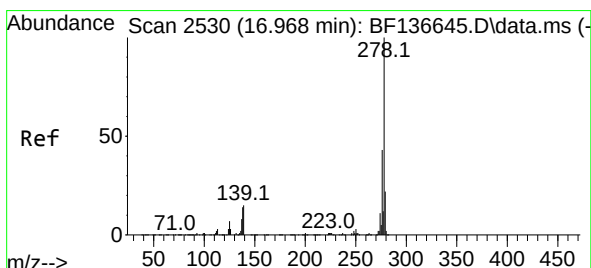
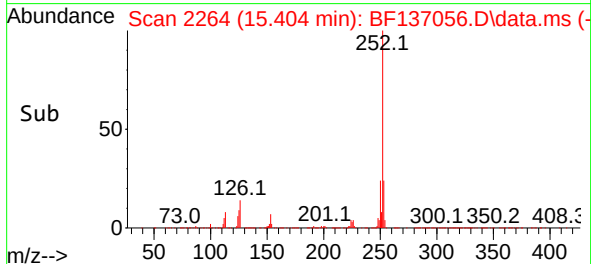
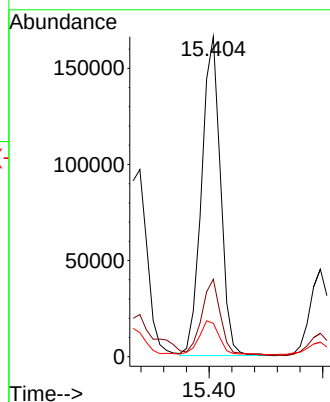
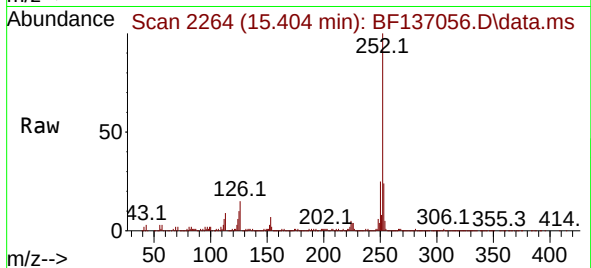
OK-01-11124

Tgt Ion:	252	Resp:	19223
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.0	25.6
125	10.4	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024



#91

Dibenzo(a,h)anthracene

Concen: 4.642 ng

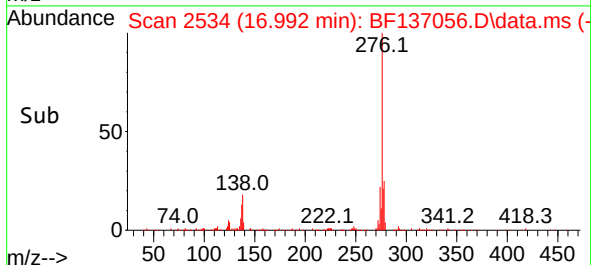
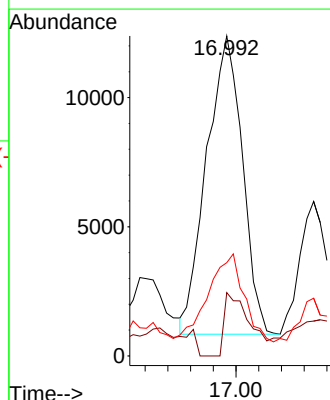
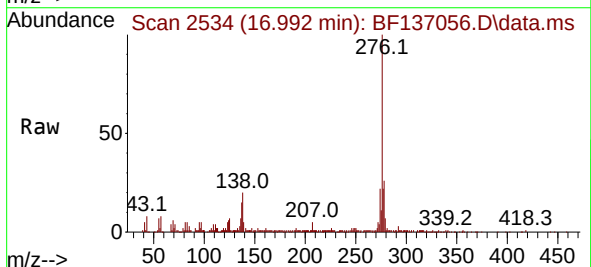
RT: 16.992 min Scan# 2534

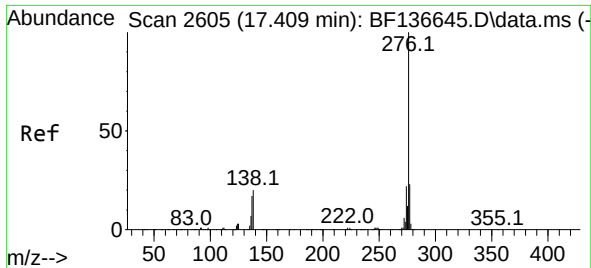
Delta R.T. 0.024 min

Lab File: BF137056.D

Acq: 12 Jan 2024 18:54

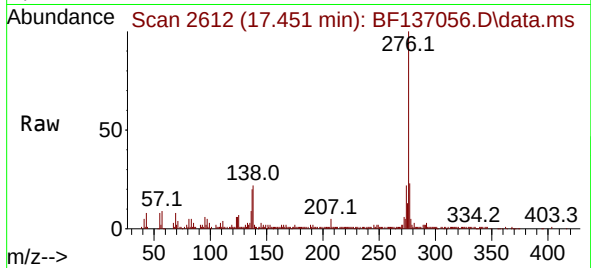
Tgt Ion:	278	Resp:	25269
Ion Ratio	Lower	Upper	
278	100		
139	19.8	12.2	18.4#
279	29.2	17.8	26.6#





#92
Benzo(g,h,i)perylene
Concen: 14.625 ng
RT: 17.451 min Scan# 20
Delta R.T. 0.041 min
Lab File: BF137056.D
Acq: 12 Jan 2024 18:54

Instrument :
BNA_F
ClientSampleId :
OK-01-11124



Tgt Ion:276 Resp: 81544
Ion Ratio Lower Upper
276 100
277 23.5 18.3 27.5
138 21.9 15.6 23.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 01/15/2024
Supervised By :mohammad ahmed 01/16/2024

