

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032124\
 Data File : BF137675.D
 Acq On : 21 Mar 2024 22:23
 Operator : CG\JU
 Sample : P1804-01DL 10X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 JC-03-03192024-ADL

Quant Time: Mar 22 01:45:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 14 14:45:20 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/22/2024
 Supervised By :mohammad ahmed 03/26/2024

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.728	152	114198	20.000	ng	0.00
21) Naphthalene-d8	8.010	136	416504	20.000	ng	0.00
39) Acenaphthene-d10	9.757	164	199339	20.000	ng	0.00
64) Phenanthrene-d10	11.239	188	322356	20.000	ng	0.00
76) Chrysene-d12	13.880	240	274140	20.000	ng	0.00
86) Perylene-d12	15.304	264	206955	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.334	112	48389	6.418	ng	0.00
7) Phenol-d6	6.369	99	59307	5.449	ng	0.00
23) Nitrobenzene-d5	7.298	82	30312	3.382	ng	0.00
42) 2,4,6-Tribromophenol	10.551	330	10619	6.066	ng	0.00
45) 2-Fluorobiphenyl	9.081	172	80962	6.358	ng	0.00
79) Terphenyl-d14	12.827	244	92008	4.615	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.028	128	80308	3.594	ng	98
37) 2-Methylnaphthalene	8.722	142	28834	2.024	ng	99
52) Acenaphthene	9.792	154	40964	3.854	ng	98
55) Dibenzofuran	9.969	168	39816	2.460	ng	97
58) Fluorene	10.304	166	61942	4.983	ng	99
71) Phenanthrene	11.269	178	465584	26.539	ng	98
72) Anthracene	11.316	178	157618	8.748	ng	97
73) Carbazole	11.480	167	39168	2.538	ng	100
75) Fluoranthene	12.451	202	695166	40.539	ng	99
78) Pyrene	12.680	202	617777	22.966	ng	99
81) Benzo(a)anthracene	13.868	228	317063	16.501	ng	99
83) Chrysene	13.904	228	253754	13.067	ng	96
87) Indeno(1,2,3-cd)pyrene	16.692	276	94887	6.967	ng	94
88) Benzo(b)fluoranthene	14.898	252	271130m	22.147	ng	
89) Benzo(k)fluoranthene	14.921	252	74907m	5.697	ng	
90) Benzo(a)pyrene	15.245	252	183452	15.206	ng	98
91) Dibenzo(a,h)anthracene	16.698	278	22235	2.013	ng #	91
92) Benzo(g,h,i)perylene	17.109	276	93496	8.240	ng	98

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

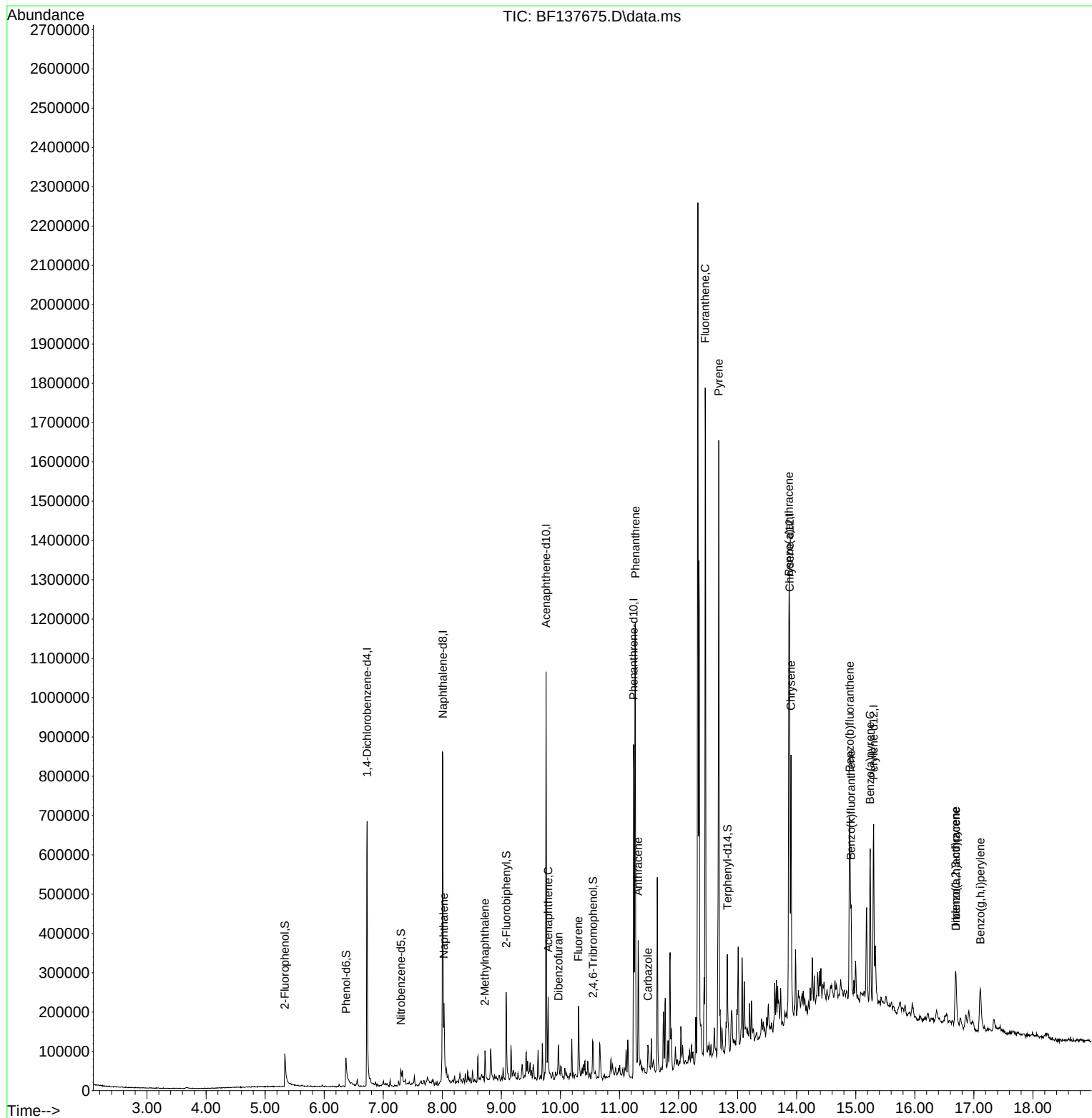
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032124\
Data File : BF137675.D
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Sample : P1804-01DL 10X
Misc :
ALS Vial : 19 Sample Multiplier: 1

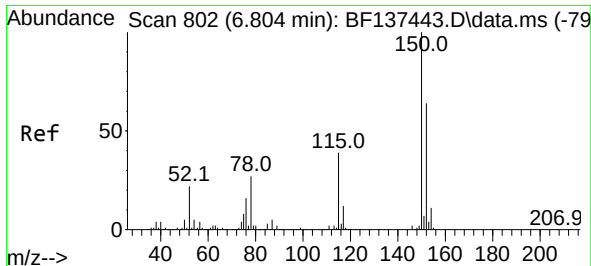
Instrument :
BNA_F
ClientSampleId :
JC-03-03192024-ADL

Quant Time: Mar 22 01:45:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022924.M
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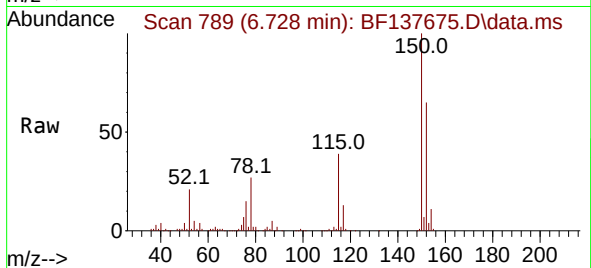
Reviewed By :Jagrut Upadhyay 03/22/2024
Supervised By :mohammad ahmed 03/26/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.728 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

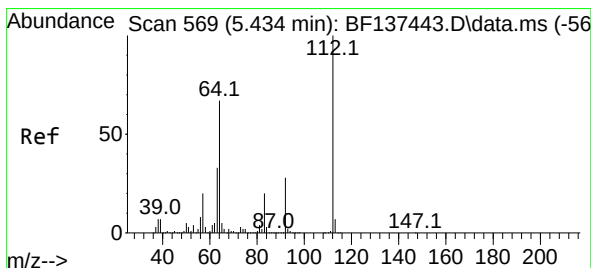
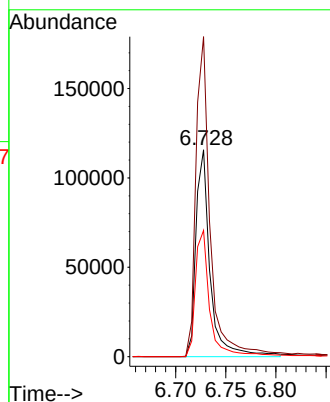
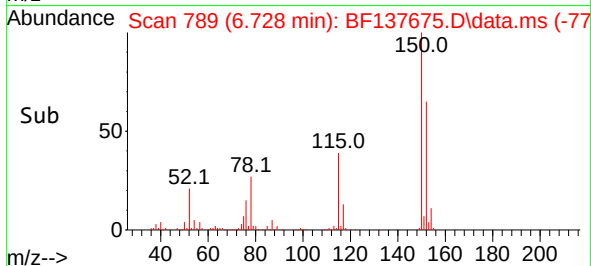
Instrument :
BNA_F
ClientSampleId :
JC-03-03192024-ADL



Tgt Ion:152 Resp: 114198
Ion Ratio Lower Upper
152 100
150 154.7 125.8 188.6
115 61.0 48.8 73.2

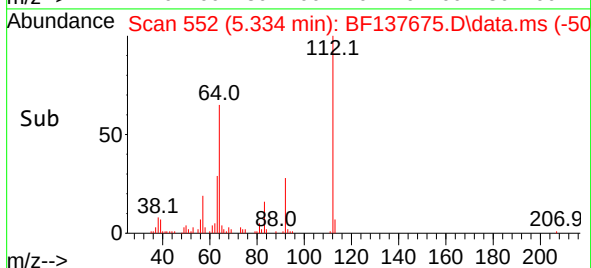
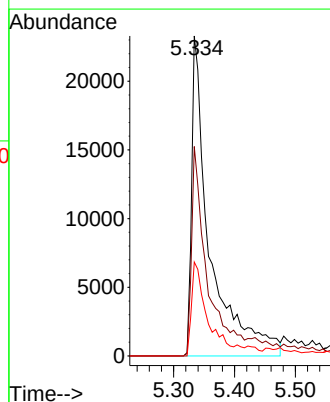
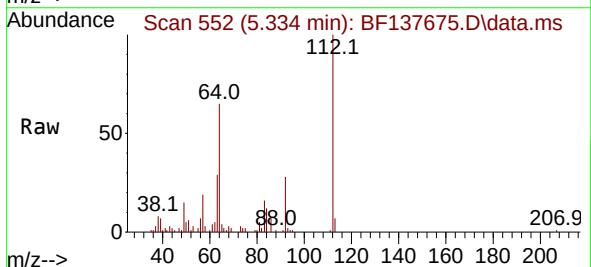
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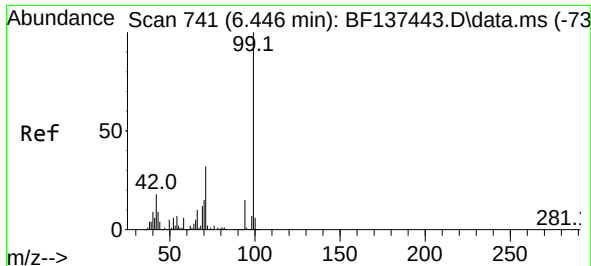
Reviewed By :Jagrut Upadhyay 03/22/2024
Supervised By :mohammad ahmed 03/26/2024



#5
2-Fluorophenol
Concen: 6.418 ng
RT: 5.334 min Scan# 552
Delta R.T. -0.000 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

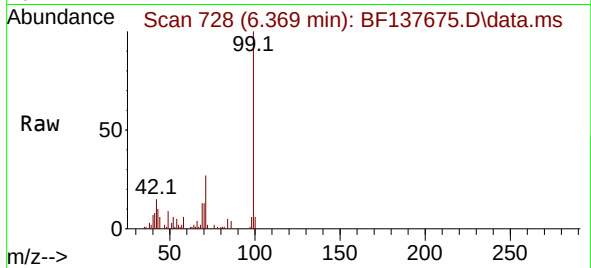
Tgt Ion:112 Resp: 48389
Ion Ratio Lower Upper
112 100
64 65.5 53.4 80.2
63 29.3 26.2 39.2





#7
Phenol-d6
Concen: 5.449 ng
RT: 6.369 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

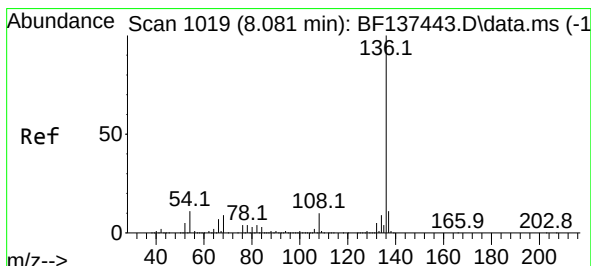
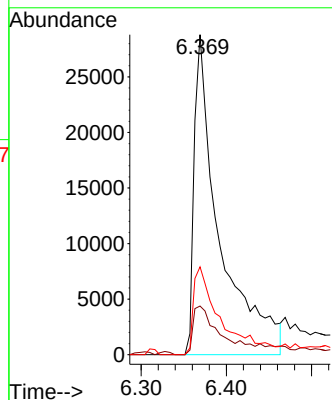
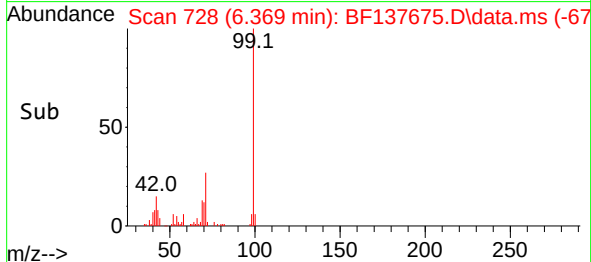
Instrument :
BNA_F
ClientSampleId :
JC-03-03192024-ADL



Tgt Ion: 99 Resp: 5930
Ion Ratio Lower Upper
99 100
42 15.2 14.6 21.8
71 27.4 25.3 37.9

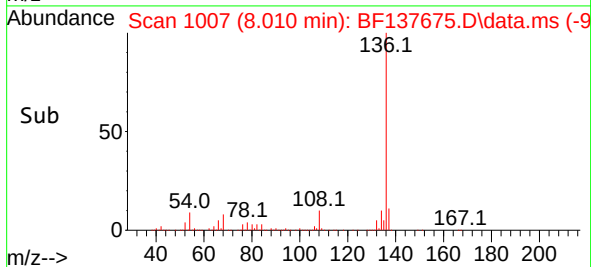
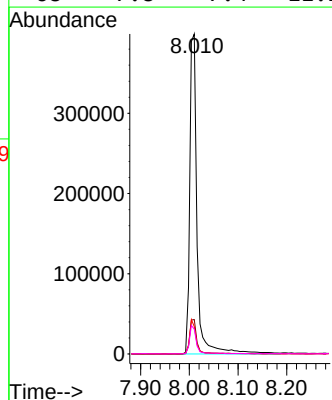
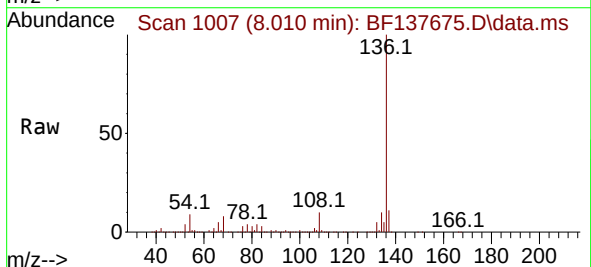
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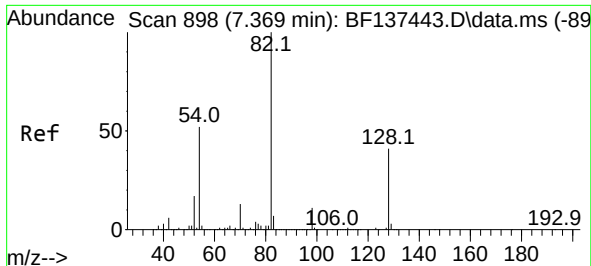
Reviewed By :Jagrut Upadhyay 03/22/2024
Supervised By :mohammad ahmed 03/26/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.010 min Scan# 1007
Delta R.T. -0.000 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

Tgt Ion:136 Resp: 416504
Ion Ratio Lower Upper
136 100
137 10.7 9.1 13.7
54 8.6 8.5 12.7
68 7.8 7.4 11.2





#23

Nitrobenzene-d5

Concen: 3.382 ng

RT: 7.298 min Scan# 80

Delta R.T. -0.000 min

Lab File: BF137675.D

Acq: 21 Mar 2024 22:23

Instrument :

BNA_F

ClientSampleId :

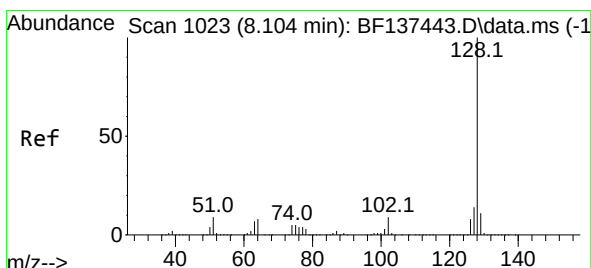
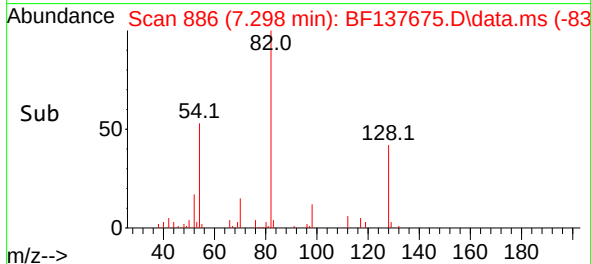
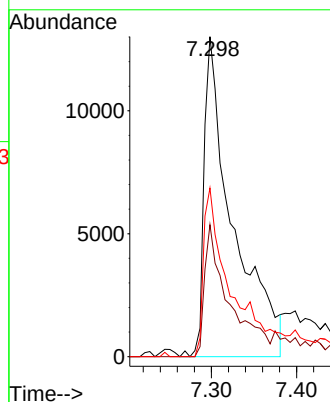
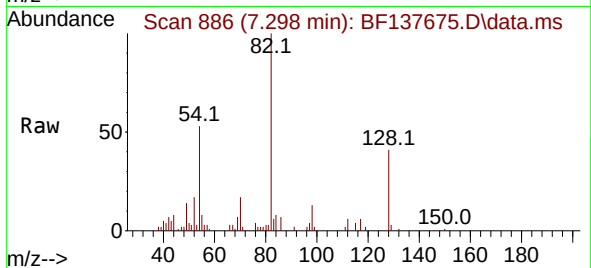
JC-03-03192024-ADL

Tgt Ion:	82	Resp:	3031
Ion Ratio	Lower	Upper	
82	100		
128	41.3	32.5	48.7
54	52.7	41.5	62.3

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#31

Naphthalene

Concen: 3.594 ng

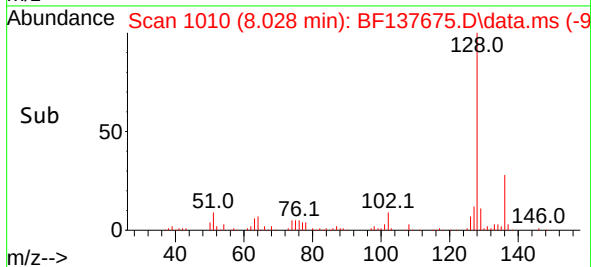
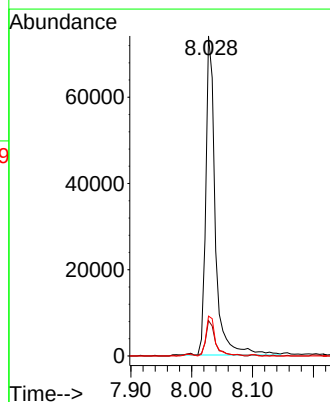
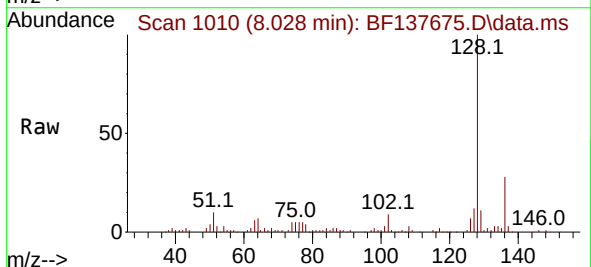
RT: 8.028 min Scan# 1010

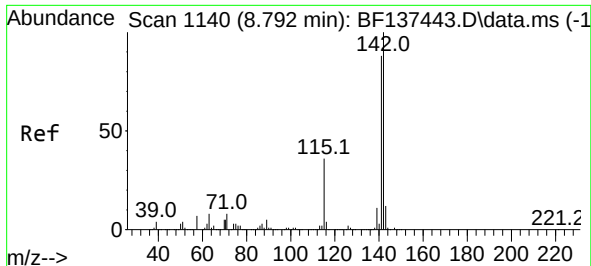
Delta R.T. -0.006 min

Lab File: BF137675.D

Acq: 21 Mar 2024 22:23

Tgt Ion:	128	Resp:	80308
Ion Ratio	Lower	Upper	
128	100		
129	11.1	9.2	13.8
127	12.4	10.8	16.2





#37

2-Methylnaphthalene

Concen: 2.024 ng

RT: 8.722 min Scan# 1140

Delta R.T. -0.000 min

Lab File: BF137675.D

Acq: 21 Mar 2024 22:23

Instrument :

BNA_F

ClientSampleId :

JC-03-03192024-ADL

Tgt Ion:142 Resp: 28834

Ion Ratio Lower Upper

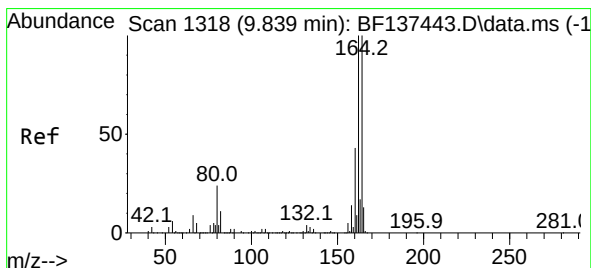
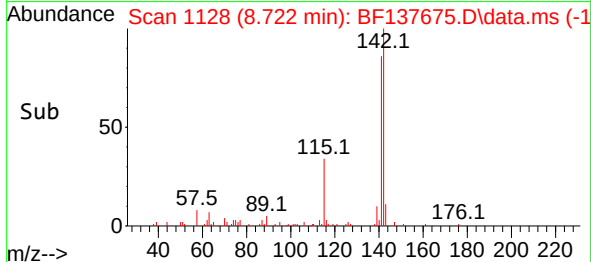
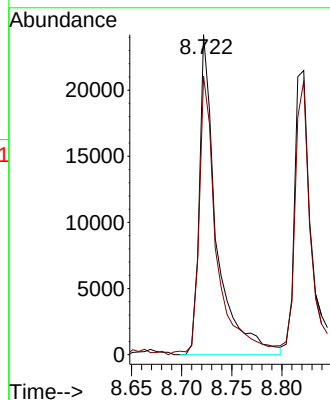
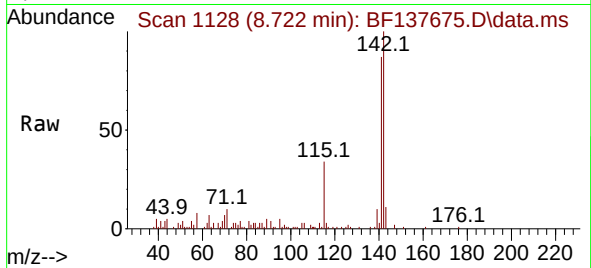
142 100

141 87.0 70.4 105.6

Manual Integrations

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Supervised By :mohammad ahmed 03/26/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.757 min Scan# 1304

Delta R.T. -0.006 min

Lab File: BF137675.D

Acq: 21 Mar 2024 22:23

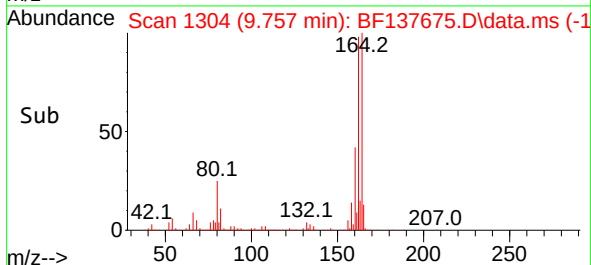
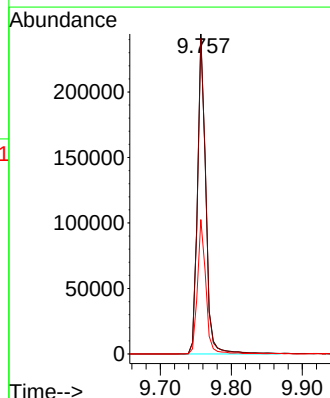
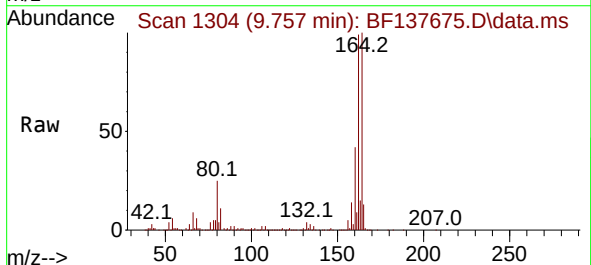
Tgt Ion:164 Resp: 199339

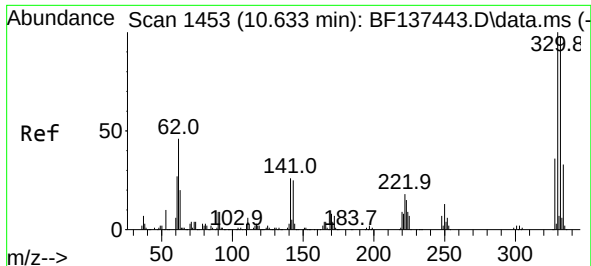
Ion Ratio Lower Upper

164 100

162 98.6 79.8 119.8

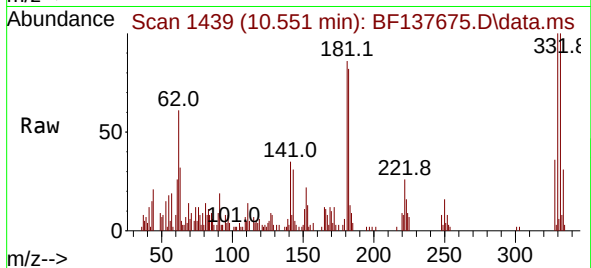
160 42.0 34.4 51.6





#42
2,4,6-Tribromophenol
Concen: 6.066 ng
RT: 10.551 min Scan# 1453
Delta R.T. -0.000 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

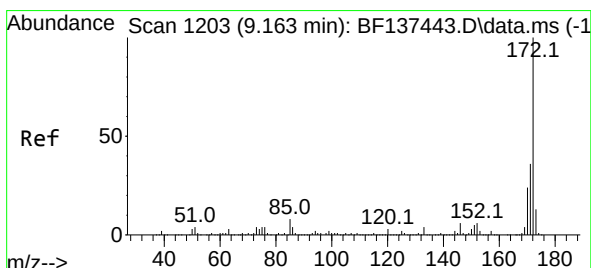
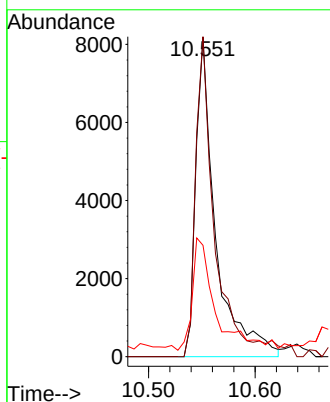
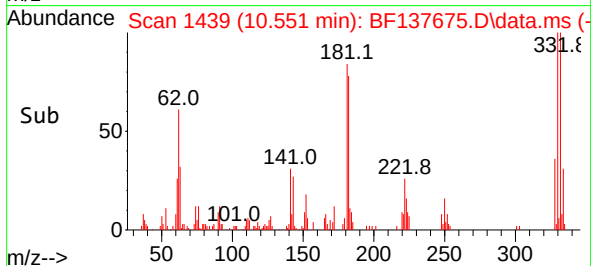
Instrument :
BNA_F
ClientSampleId :
JC-03-03192024-ADL



Tgt Ion: 330 Resp: 10619
Ion Ratio Lower Upper
330 100
332 98.7 78.0 117.0
141 41.7 27.3 40.9

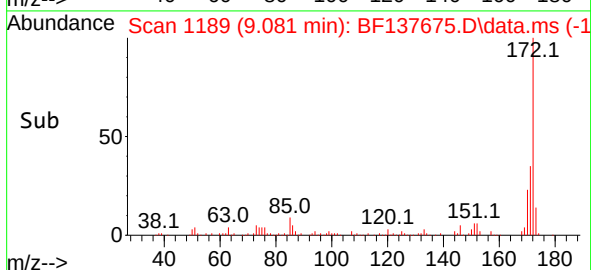
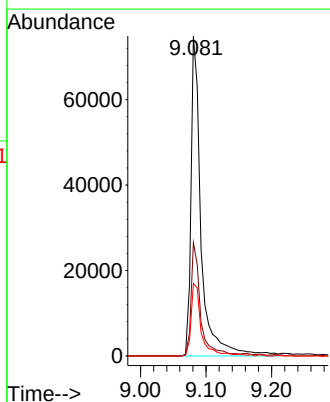
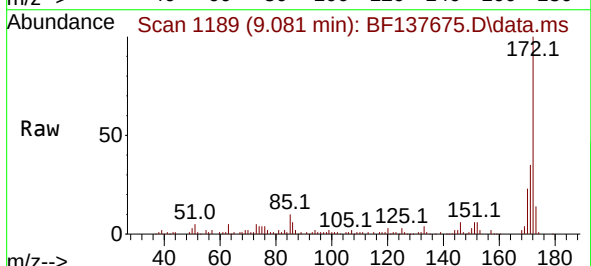
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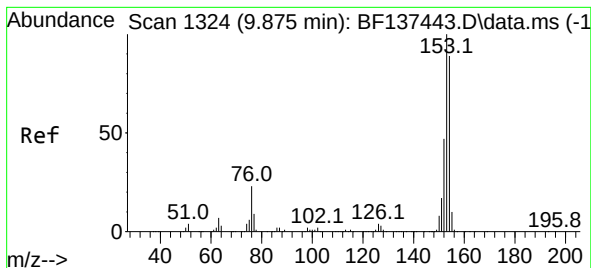
Reviewed By : Jagrut Upadhyay 03/22/2024
Supervised By : mohammad ahmed 03/26/2024



#45
2-Fluorobiphenyl
Concen: 6.358 ng
RT: 9.081 min Scan# 1189
Delta R.T. -0.006 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

Tgt Ion: 172 Resp: 80962
Ion Ratio Lower Upper
172 100
171 35.4 28.5 42.7
170 22.6 19.0 28.6





#52

Acenaphthene

Concen: 3.854 ng

RT: 9.792 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF137675.D

Acq: 21 Mar 2024 22:23

Instrument :

BNA_F

ClientSampleId :

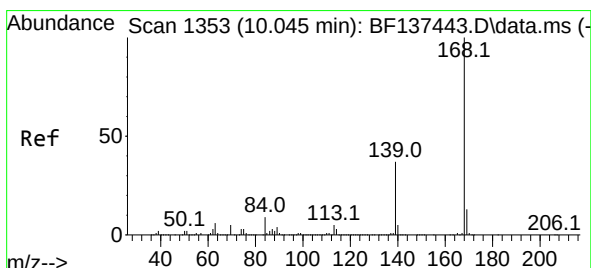
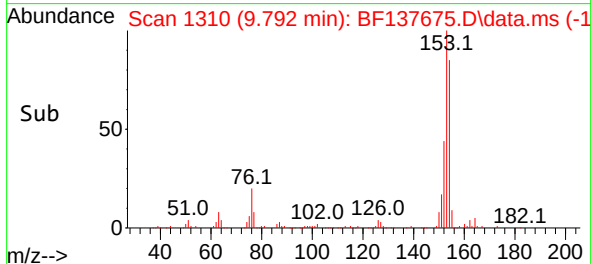
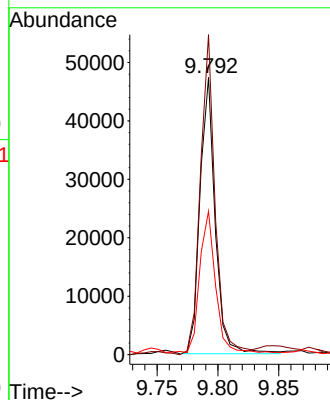
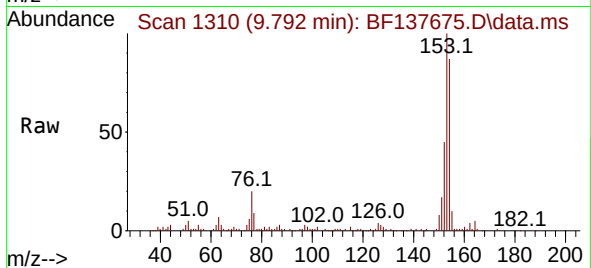
JC-03-03192024-ADL

Tgt Ion:154 Resp: 40964
 Ion Ratio Lower Upper
 154 100
 153 115.5 90.3 135.5
 152 51.8 42.7 64.1

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#55

Dibenzofuran

Concen: 2.460 ng

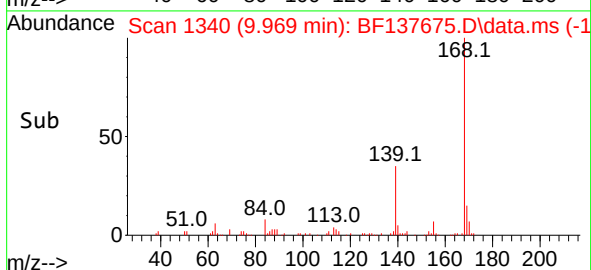
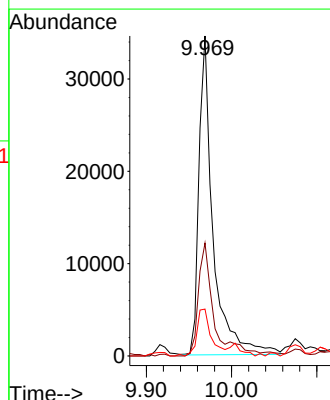
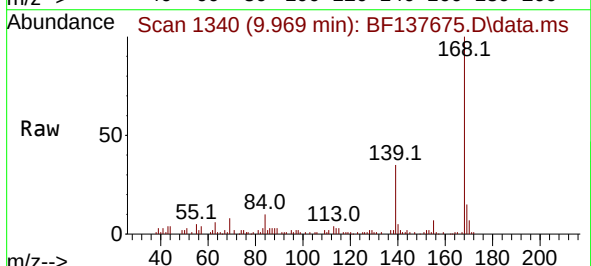
RT: 9.969 min Scan# 1340

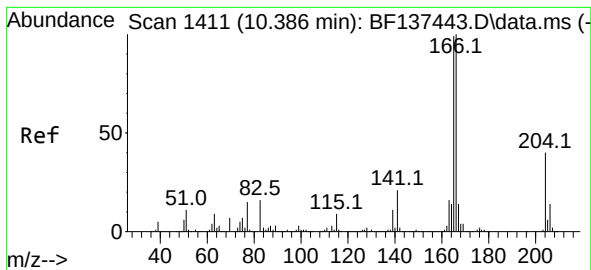
Delta R.T. -0.000 min

Lab File: BF137675.D

Acq: 21 Mar 2024 22:23

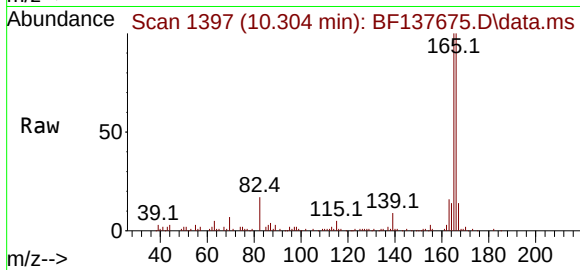
Tgt Ion:168 Resp: 39816
 Ion Ratio Lower Upper
 168 100
 139 35.3 29.8 44.6
 169 14.6 10.8 16.2





#58
Fluorene
Concen: 4.983 ng
RT: 10.304 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

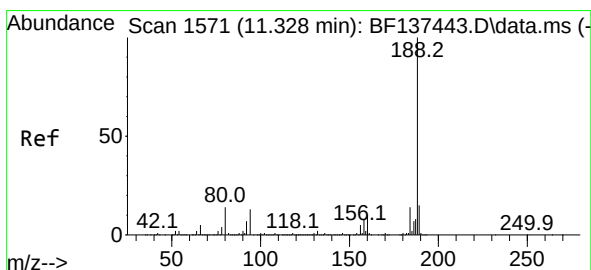
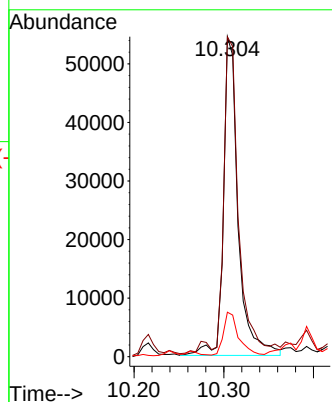
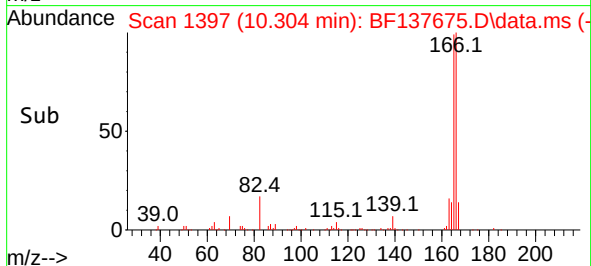
Instrument :
BNA_F
ClientSampleId :
JC-03-03192024-ADL



Tgt Ion:166 Resp: 6194
Ion Ratio Lower Upper
166 100
165 100.0 79.2 118.8
167 13.9 11.0 16.6

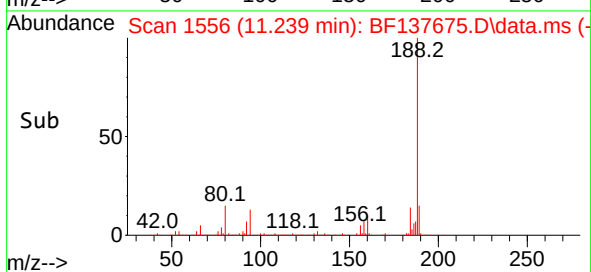
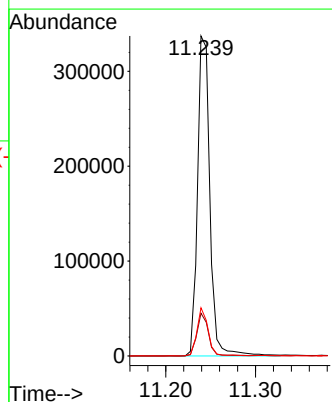
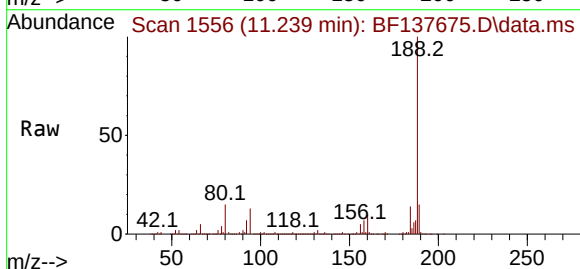
Manual Integrations
APPROVED

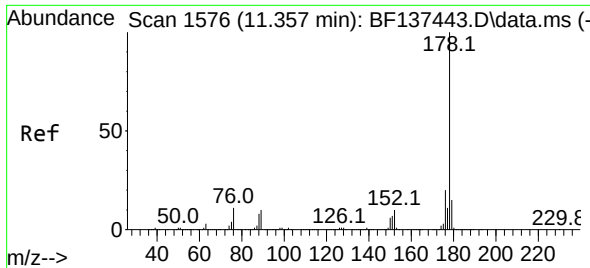
Reviewed By :Jagrut Upadhyay 03/22/2024
Supervised By :mohammad ahmed 03/26/2024



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.239 min Scan# 1556
Delta R.T. -0.000 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

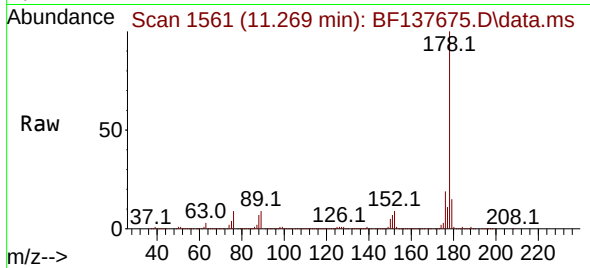
Tgt Ion:188 Resp: 322356
Ion Ratio Lower Upper
188 100
94 13.3 10.6 15.8
80 15.0 11.5 17.3





#71
Phenanthrene
Concen: 26.539 ng
RT: 11.269 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

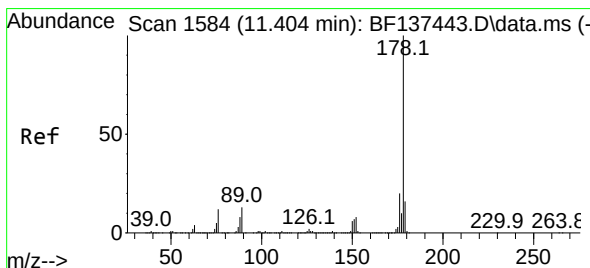
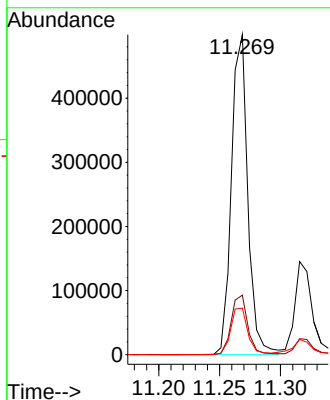
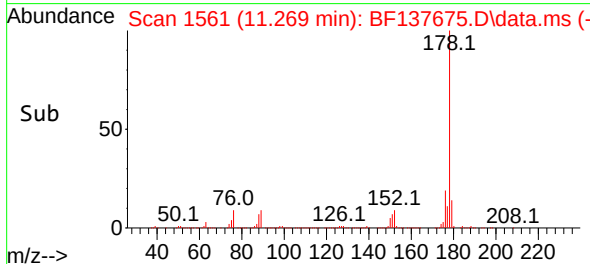
Instrument :
BNA_F
ClientSampleId :
JC-03-03192024-ADL



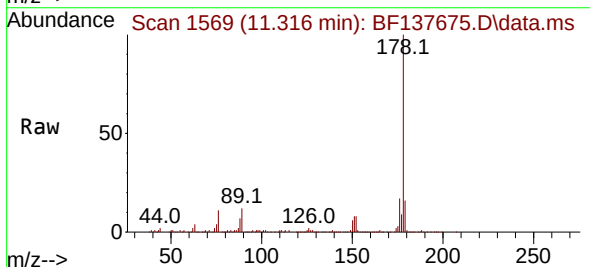
Tgt Ion:178 Resp: 465584
Ion Ratio Lower Upper
178 100
176 18.6 15.8 23.8
179 14.5 12.2 18.2

Manual Integrations
APPROVED

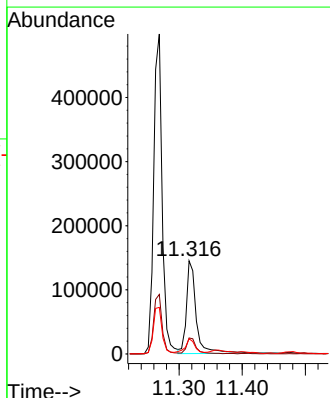
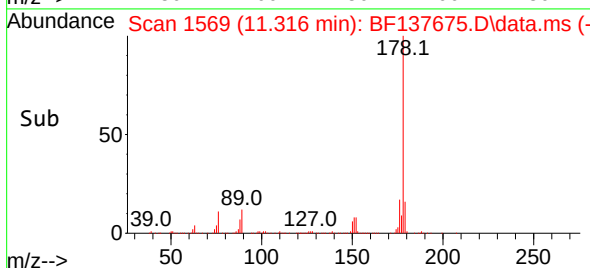
Reviewed By :Jagrut Upadhyay 03/22/2024
Supervised By :mohammad ahmed 03/26/2024

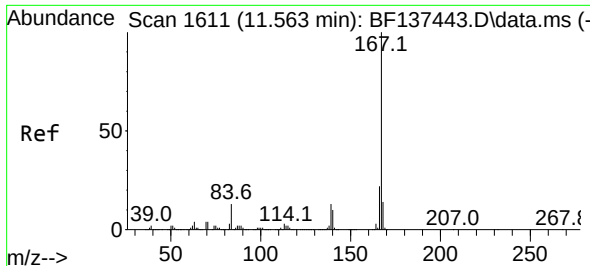


#72
Anthracene
Concen: 8.748 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23



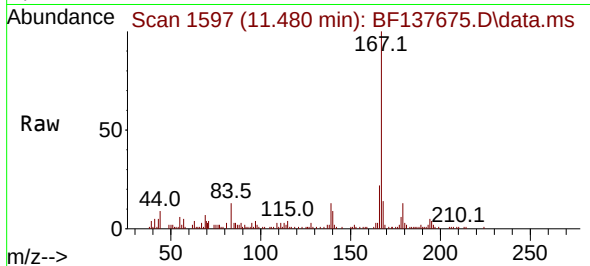
Tgt Ion:178 Resp: 157618
Ion Ratio Lower Upper
178 100
176 17.3 15.7 23.5
179 16.4 12.7 19.1





#73
 Carbazole
 Concen: 2.538 ng
 RT: 11.480 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: BF137675.D
 Acq: 21 Mar 2024 22:23

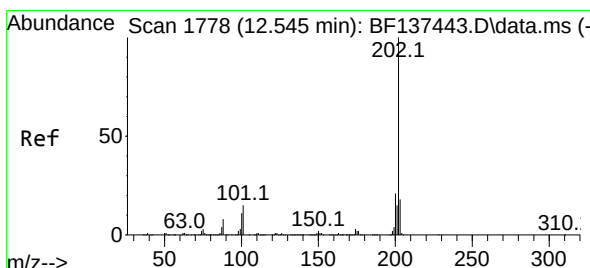
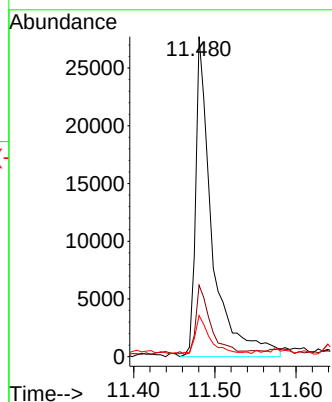
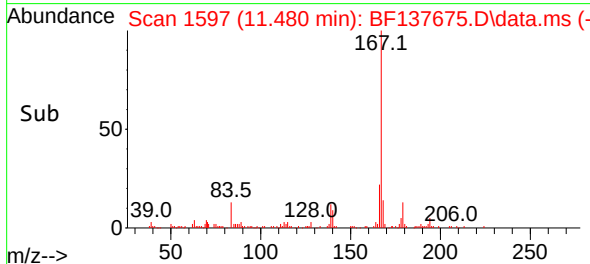
Instrument :
 BNA_F
 ClientSampleId :
 JC-03-03192024-ADL



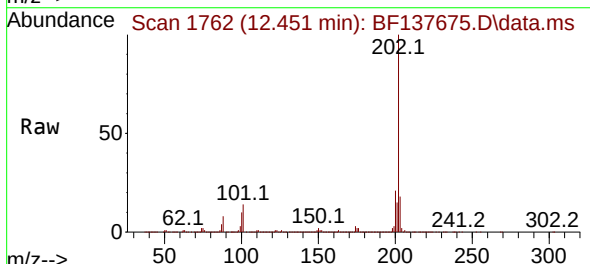
Tgt Ion:167 Resp: 3916
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.8 26.8
 139 12.9 10.5 15.7

Manual Integrations
 APPROVED

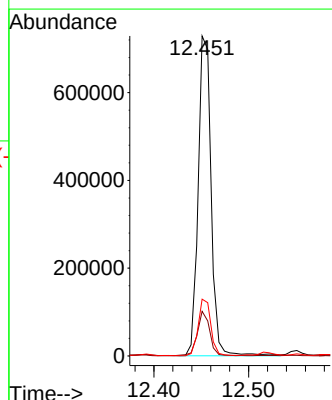
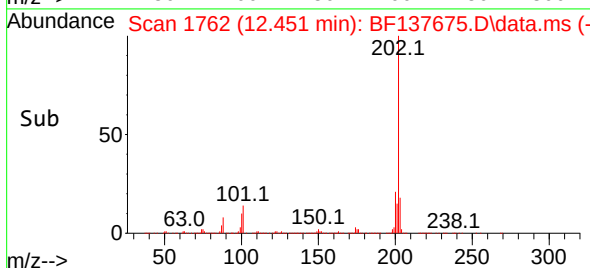
Reviewed By :Jagrut Upadhyay 03/22/2024
 Supervised By :mohammad ahmed 03/26/2024

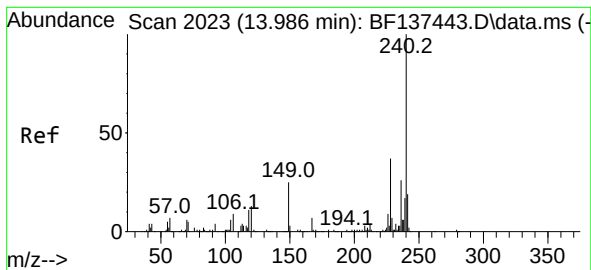


#75
 Fluoranthene
 Concen: 40.539 ng
 RT: 12.451 min Scan# 1762
 Delta R.T. -0.000 min
 Lab File: BF137675.D
 Acq: 21 Mar 2024 22:23



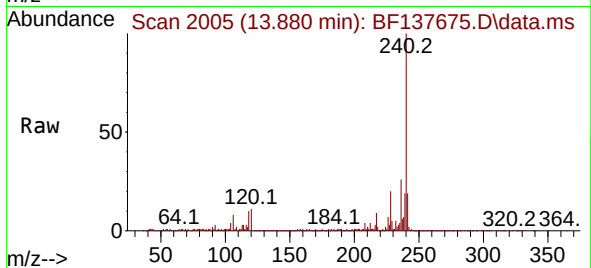
Tgt Ion:202 Resp: 695166
 Ion Ratio Lower Upper
 202 100
 101 14.0 0.0 35.0
 203 17.8 0.0 37.7





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.880 min Scan# 2023
Delta R.T. 0.006 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

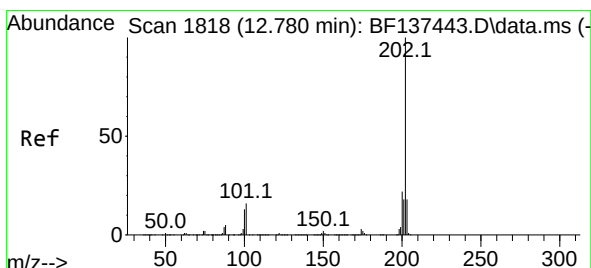
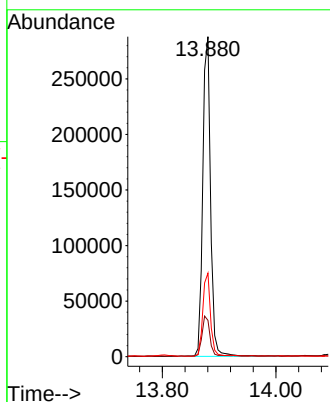
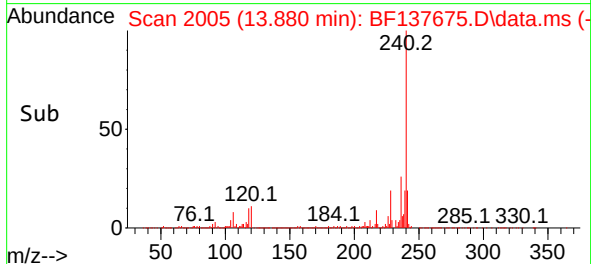
Instrument :
BNA_F
ClientSampleId :
JC-03-03192024-ADL



Tgt Ion:240 Resp: 274140
Ion Ratio Lower Upper
240 100
120 11.4 10.4 15.6
236 26.1 20.9 31.3

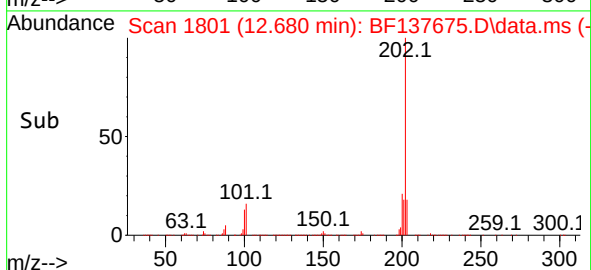
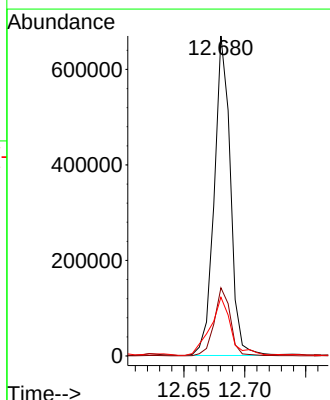
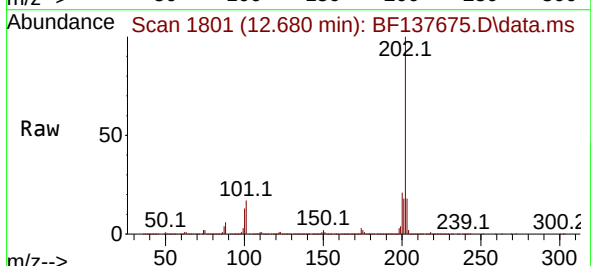
Manual Integrations
APPROVED

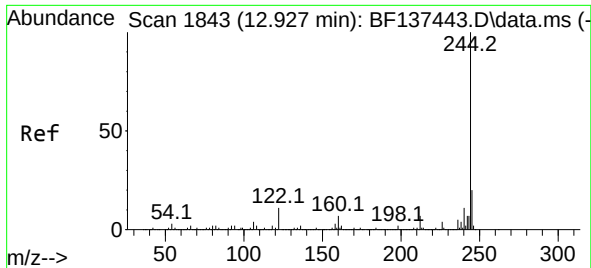
Reviewed By :Jagrut Upadhyay 03/22/2024
Supervised By :mohammad ahmed 03/26/2024



#78
Pyrene
Concen: 22.966 ng
RT: 12.680 min Scan# 1801
Delta R.T. -0.000 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

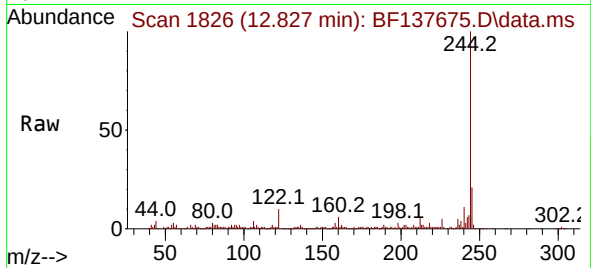
Tgt Ion:202 Resp: 617777
Ion Ratio Lower Upper
202 100
200 21.3 17.4 26.2
203 18.4 14.1 21.1





#79
 Terphenyl-d14
 Concen: 4.615 ng
 RT: 12.827 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF137675.D
 Acq: 21 Mar 2024 22:23

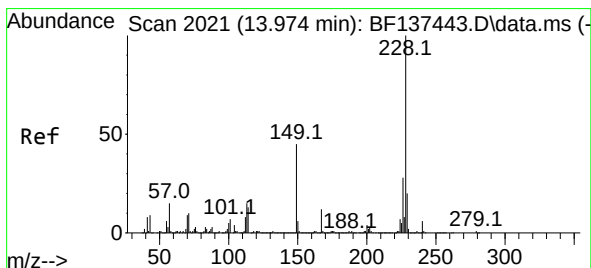
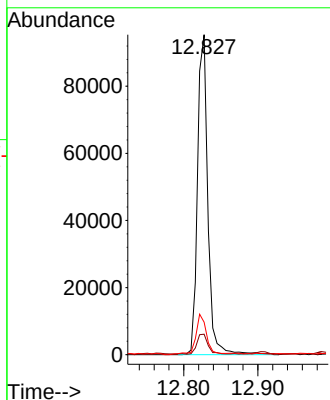
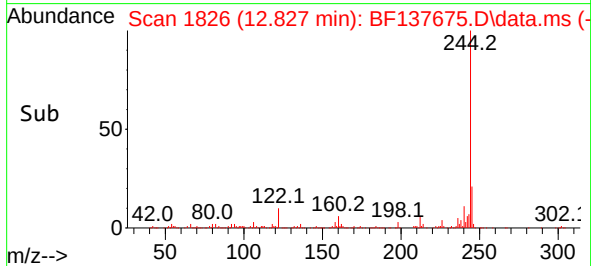
Instrument :
 BNA_F
 ClientSampleId :
 JC-03-03192024-ADL



Tgt Ion:244 Resp: 92008
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.4 8.2
 122 10.1 9.1 13.7

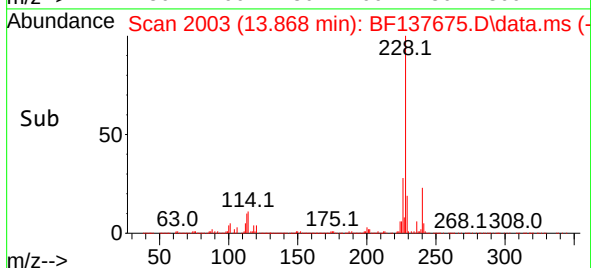
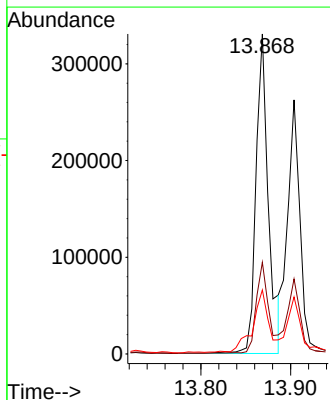
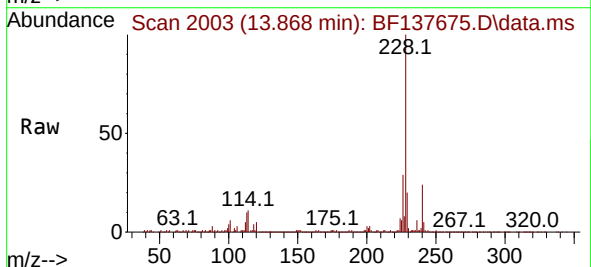
Manual Integrations
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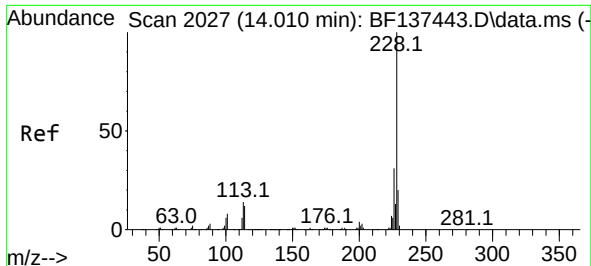
Reviewed By :Jagrut Upadhyay 03/22/2024
 Supervised By :mohammad ahmed 03/26/2024



#81
 Benzo(a)anthracene
 Concen: 16.501 ng
 RT: 13.868 min Scan# 2003
 Delta R.T. -0.000 min
 Lab File: BF137675.D
 Acq: 21 Mar 2024 22:23

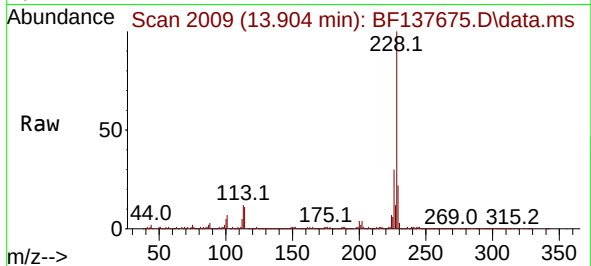
Tgt Ion:228 Resp: 317063
 Ion Ratio Lower Upper
 228 100
 226 28.7 22.3 33.5
 229 20.0 16.3 24.5





#83
Chrysene
Concen: 13.067 ng
RT: 13.904 min Scan# 2027
Delta R.T. -0.000 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

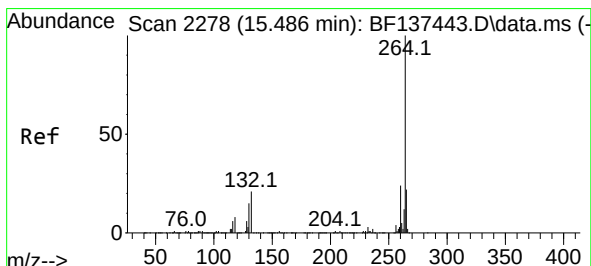
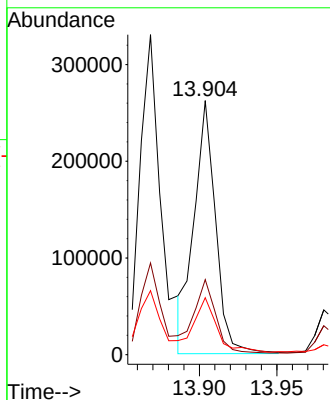
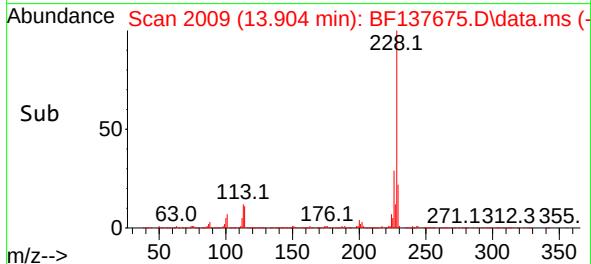
Instrument :
BNA_F
ClientSampleId :
JC-03-03192024-ADL



Tgt Ion:228 Resp: 253754
Ion Ratio Lower Upper
228 100
226 29.6 24.7 37.1
229 22.4 15.9 23.9

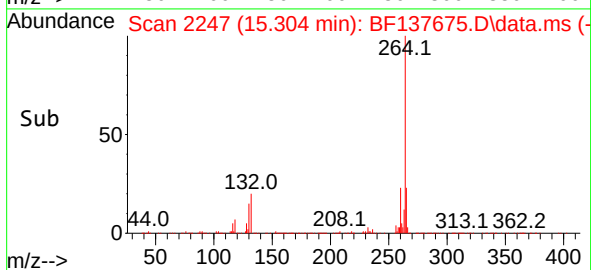
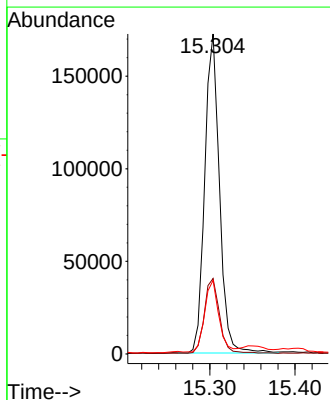
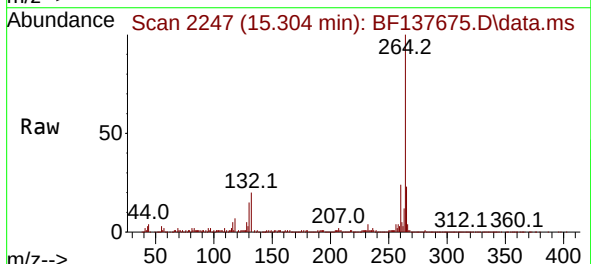
Manual Integrations
APPROVED

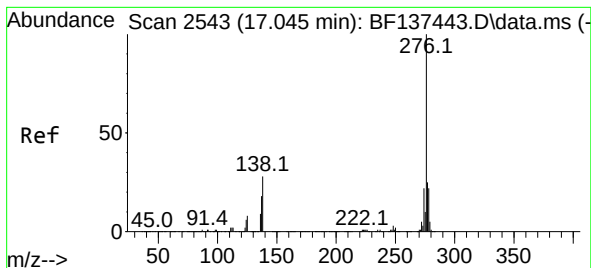
Reviewed By :Jagrut Upadhyay 03/22/2024
Supervised By :mohammad ahmed 03/26/2024



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.304 min Scan# 2247
Delta R.T. 0.006 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

Tgt Ion:264 Resp: 206955
Ion Ratio Lower Upper
264 100
260 23.6 19.3 28.9
265 23.0 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.967 ng

RT: 16.692 min Scan# 2178

Delta R.T. 0.006 min

Lab File: BF137675.D

Acq: 21 Mar 2024 22:23

Instrument :

BNA_F

ClientSampleId :

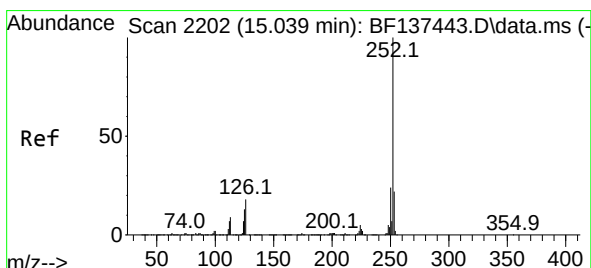
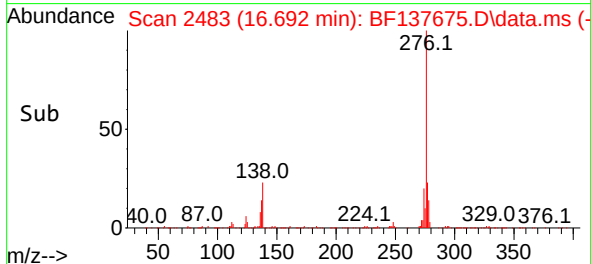
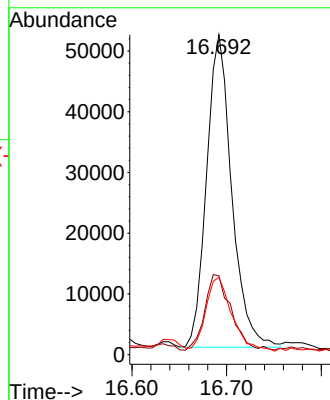
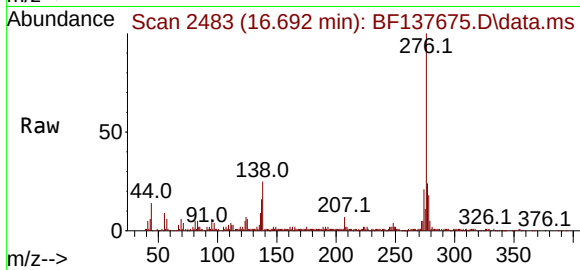
JC-03-03192024-ADL

Tgt Ion:	276	Resp:	9488
Ion Ratio	Lower	Upper	
276	100		
138	26.8	25.8	38.8
277	24.6	20.2	30.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/22/2024
Supervised By :mohammad ahmed 03/26/2024



#88

Benzo(b)fluoranthene

Concen: 22.147 ng m

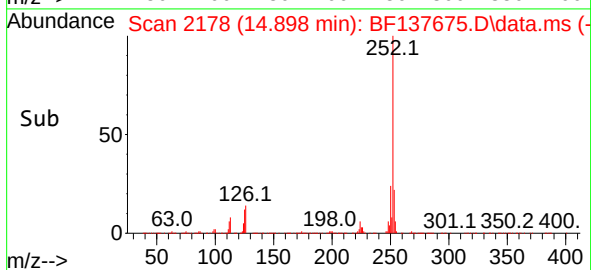
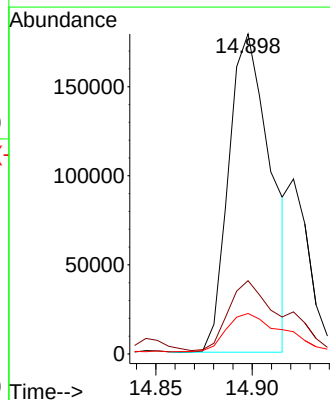
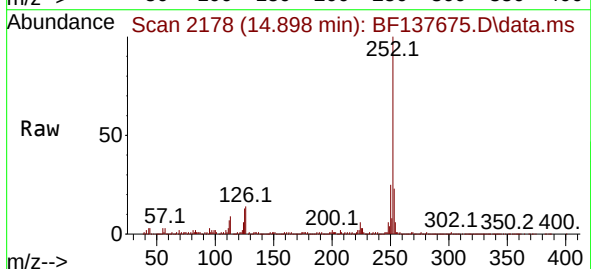
RT: 14.898 min Scan# 2178

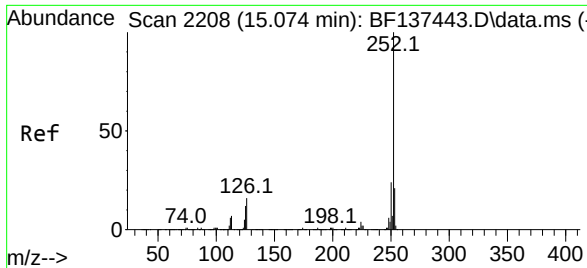
Delta R.T. 0.006 min

Lab File: BF137675.D

Acq: 21 Mar 2024 22:23

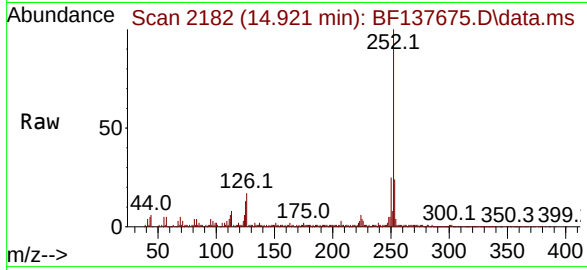
Tgt Ion:	252	Resp:	271130
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.8	26.8
125	12.7	10.1	15.1





#89
Benzo(k)fluoranthene
Concen: 5.697 ng m
RT: 14.921 min Scan# 2182
Delta R.T. -0.000 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

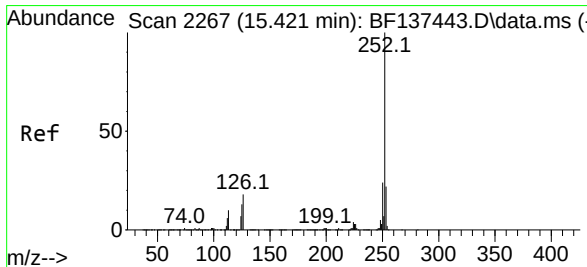
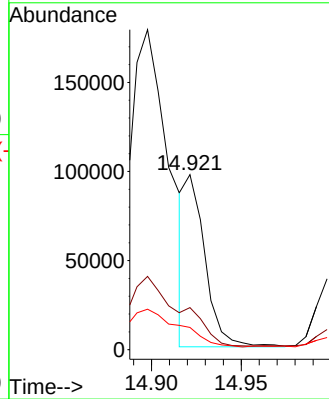
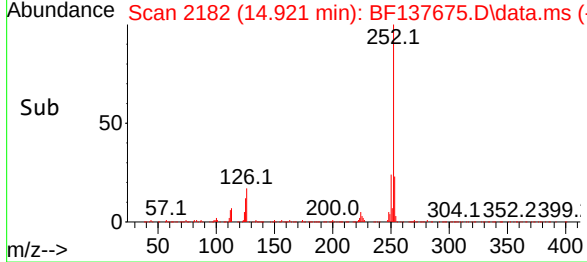
Instrument :
BNA_F
ClientSampleId :
JC-03-03192024-ADL



Tgt Ion:252 Resp: 7490
Ion Ratio Lower Upper
252 100
253 24.1 17.3 25.9
125 12.7 9.6 14.4

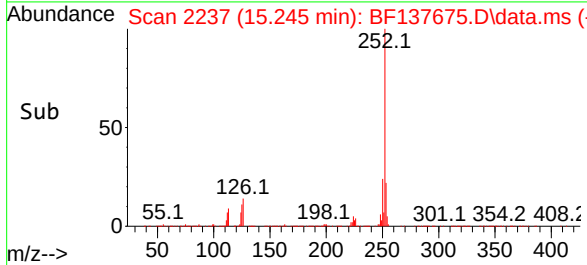
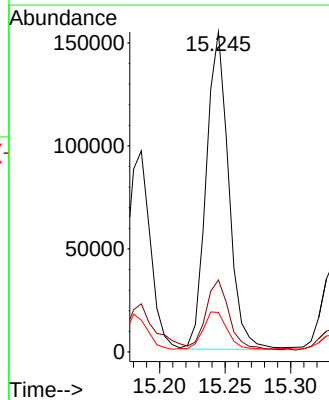
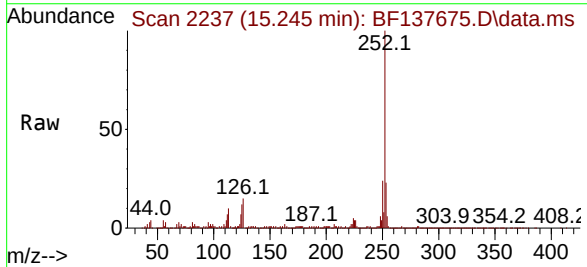
Manual Integrations
APPROVED

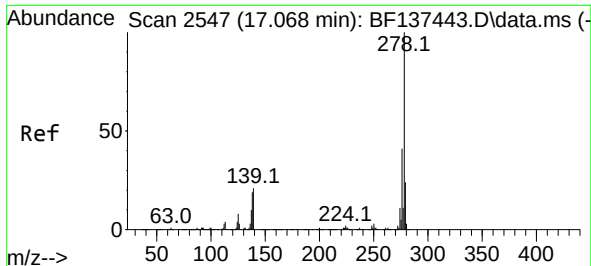
Reviewed By :Jagrut Upadhyay 03/22/2024
Supervised By :mohammad ahmed 03/26/2024



#90
Benzo(a)pyrene
Concen: 15.206 ng
RT: 15.245 min Scan# 2237
Delta R.T. 0.006 min
Lab File: BF137675.D
Acq: 21 Mar 2024 22:23

Tgt Ion:252 Resp: 183452
Ion Ratio Lower Upper
252 100
253 22.5 17.4 26.2
125 12.3 10.4 15.6





#91

Dibenzo(a,h)anthracene

Concen: 2.013 ng

RT: 16.698 min Scan# 2484

Delta R.T. -0.000 min

Lab File: BF137675.D

Acq: 21 Mar 2024 22:23

Instrument :

BNA_F

ClientSampleId :

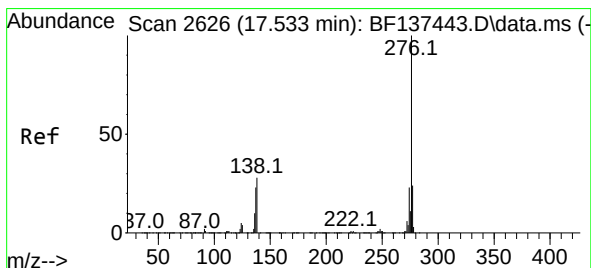
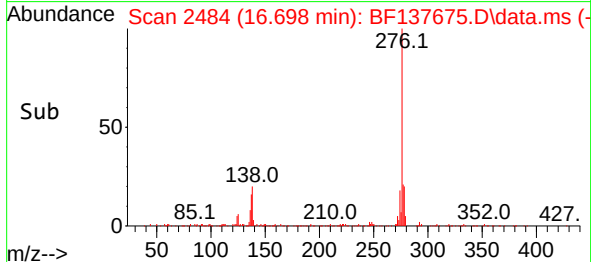
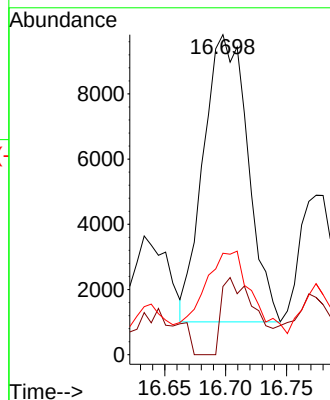
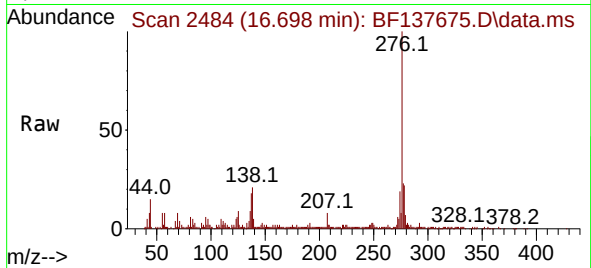
JC-03-03192024-ADL

Tgt Ion:	278	Resp:	2223
Ion Ratio	Lower	Upper	
278	100		
139	21.3	17.0	25.6
279	31.7	18.8	28.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/22/2024
Supervised By :mohammad ahmed 03/26/2024



#92

Benzo(g,h,i)perylene

Concen: 8.240 ng

RT: 17.109 min Scan# 2554

Delta R.T. 0.006 min

Lab File: BF137675.D

Acq: 21 Mar 2024 22:23

Tgt Ion:	276	Resp:	93496
Ion Ratio	Lower	Upper	
276	100		
277	24.2	19.0	28.4
138	26.6	22.2	33.2

