

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091724\
 Data File : BF139404.D
 Acq On : 17 Sep 2024 16:10
 Operator : RC/JU
 Sample : P3989-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Quant Time: Sep 17 16:52:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 14 02:58:23 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 09/18/2024
 Supervised By :mohammad ahmed 09/19/2024

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	66833	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	239430	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	110099	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	158871	20.000	ng	0.00
76) Chrysene-d12	14.033	240	103786	20.000	ng	0.00
86) Perylene-d12	15.504	264	73888	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	378243	92.326	ng	0.00
7) Phenol-d6	6.504	99	489241	90.982	ng	0.00
23) Nitrobenzene-d5	7.439	82	332187	65.224	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	85400	72.858	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	548180	69.831	ng	0.00
79) Terphenyl-d14	12.980	244	400097	63.276	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.181	128	29011	2.321	ng	98
37) 2-Methylnaphthalene	8.869	142	16772	2.114	ng	97
52) Acenaphthene	9.945	154	14422	2.168	ng	96
71) Phenanthrene	11.422	178	126121	16.454	ng	99
72) Anthracene	11.469	178	35523m	4.740	ng	
73) Carbazole	11.621	167	14390	2.006	ng	99
75) Fluoranthene	12.610	202	226900	27.720	ng	100
78) Pyrene	12.839	202	222659	24.986	ng	99
81) Benzo(a)anthracene	14.021	228	126861	18.453	ng	97
83) Chrysene	14.057	228	102518	16.209	ng	97
87) Indeno(1,2,3-cd)pyrene	16.962	276	35943	8.181	ng	97
88) Benzo(b)fluoranthene	15.074	252	96884m	21.261	ng	
89) Benzo(k)fluoranthene	15.086	252	40120m	9.549	ng	
90) Benzo(a)pyrene	15.439	252	69740	18.453	ng	97
91) Dibenzo(a,h)anthracene	16.974	278	9927m	2.734	ng	
92) Benzo(g,h,i)perylene	17.409	276	38706	10.768	ng	96

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

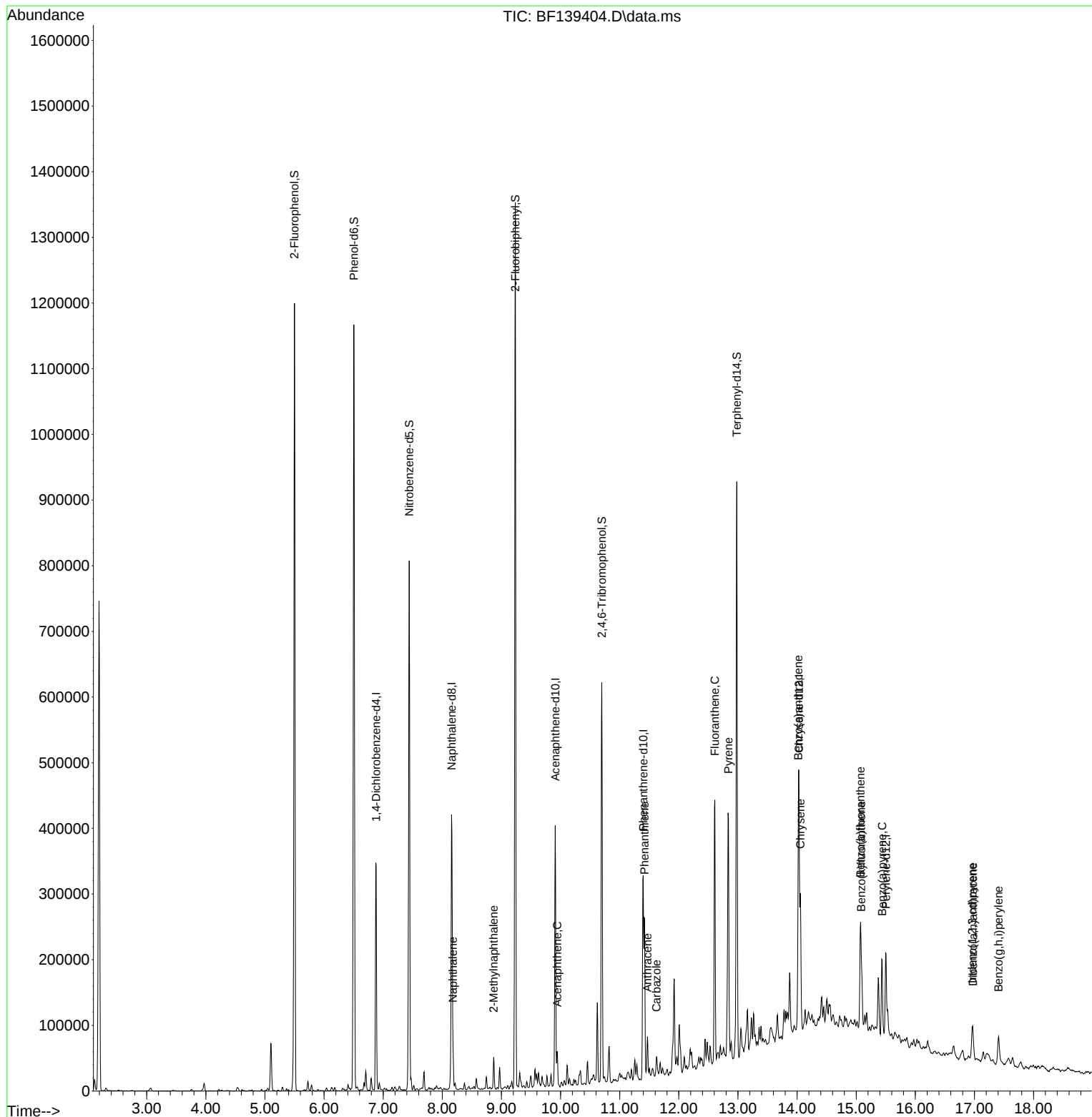
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091724\
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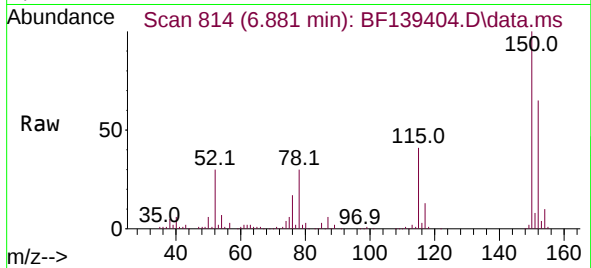
Reviewed By :Jagrut Upadhyay 09/18/2024
Supervised By :mohammad ahmed 09/19/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 814
Delta R.T. -0.000 min
Lab File: BF139404.D
Acq: 17 Sep 2024 16:10

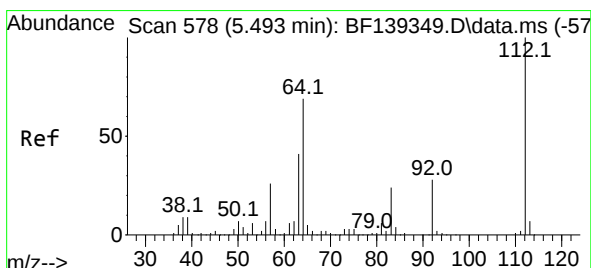
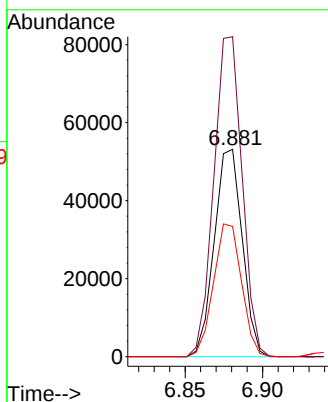
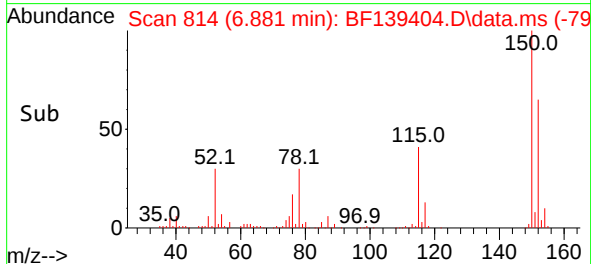
Instrument :
BNA_F
ClientSampleId :
TP-2



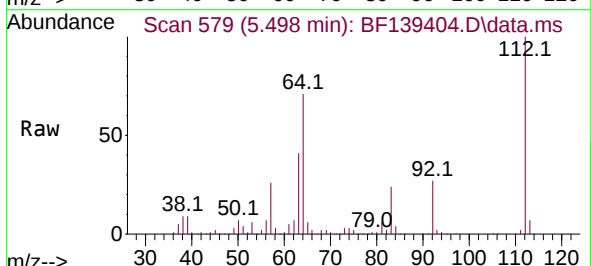
Tgt Ion:152 Resp: 6683
Ion Ratio Lower Upper
152 100
150 154.3 124.1 186.1
115 62.8 48.1 72.1

Manual Integrations
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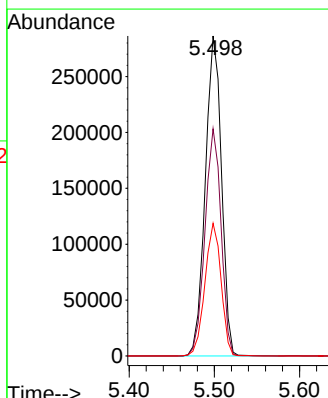
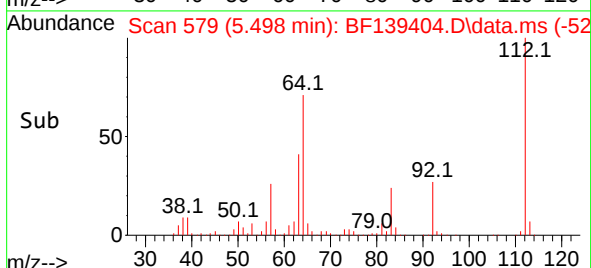
Reviewed By :Jagrut Upadhyay 09/18/2024
Supervised By :mohammad ahmed 09/19/2024



#5
2-Fluorophenol
Concen: 92.326 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.005 min
Lab File: BF139404.D
Acq: 17 Sep 2024 16:10



Tgt Ion:112 Resp: 378243
Ion Ratio Lower Upper
112 100
64 71.0 54.8 82.2
63 41.4 33.0 49.4





#7

Phenol-d6

Concen: 90.982 ng

RT: 6.504 min Scan# 71

Delta R.T. -0.000 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion: 99 Resp: 48924

Ion Ratio Lower Upper

99 100

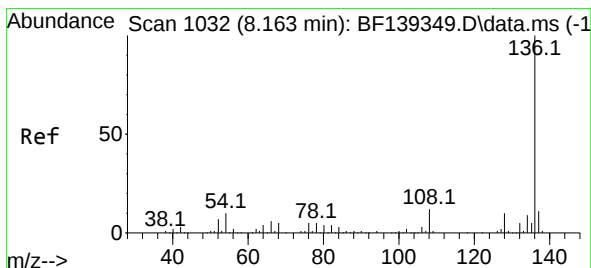
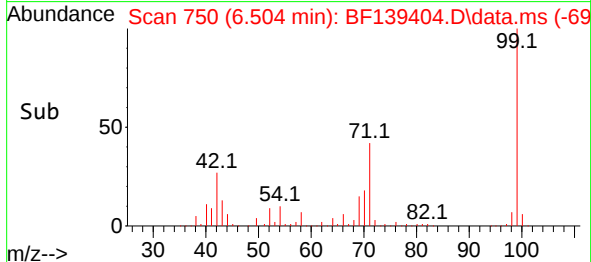
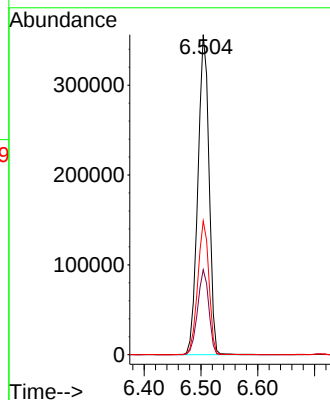
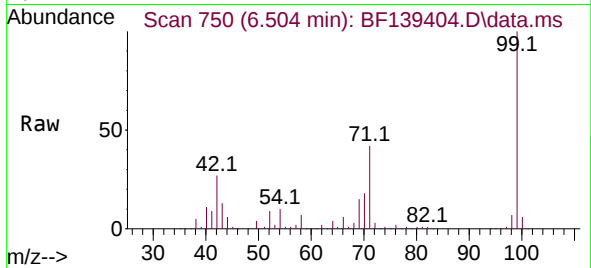
42 26.5 21.9 32.9

71 41.8 34.6 52.0

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.157 min Scan# 1031

Delta R.T. -0.006 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Tgt Ion:136 Resp: 239430

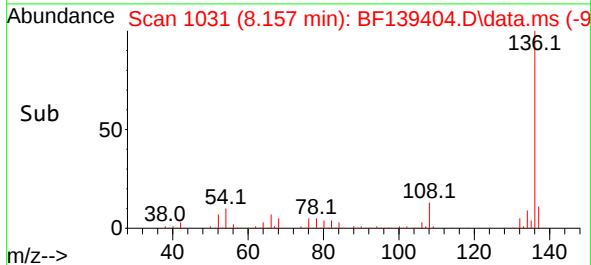
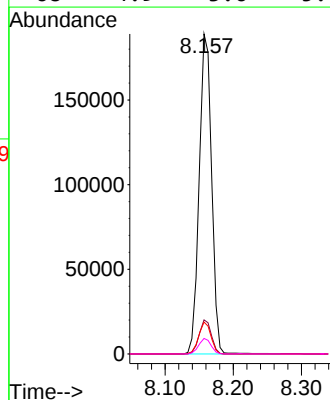
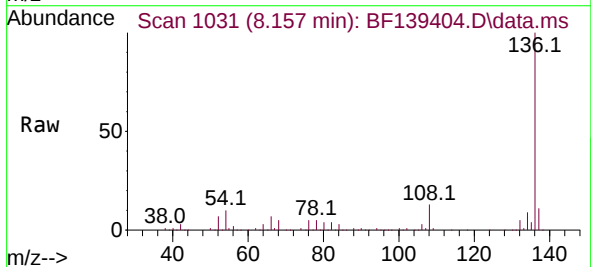
Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

54 10.0 7.8 11.8

68 4.9 3.6 5.4





#23

Nitrobenzene-d5

Concen: 65.224 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.006 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion: 82 Resp: 33218

Ion Ratio Lower Upper

82 100

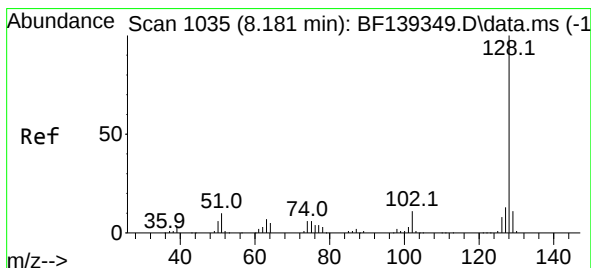
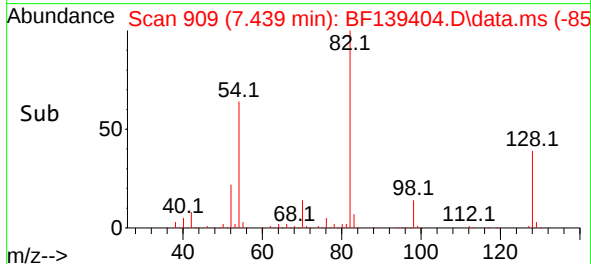
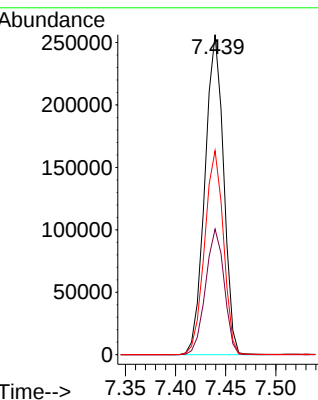
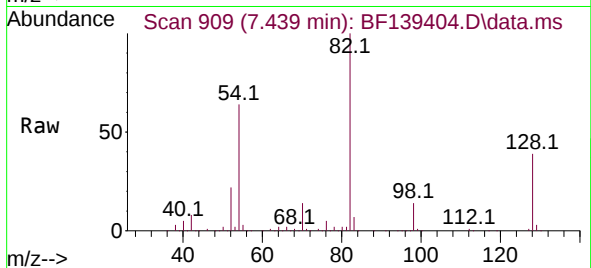
128 39.3 31.8 47.6

54 63.7 50.6 75.8

Manual Integrations

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#31

Naphthalene

Concen: 2.321 ng

RT: 8.181 min Scan# 1035

Delta R.T. -0.000 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

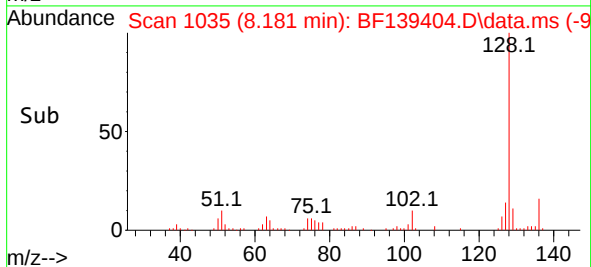
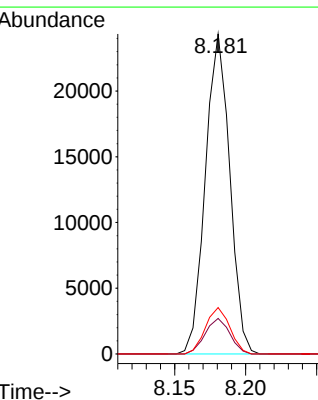
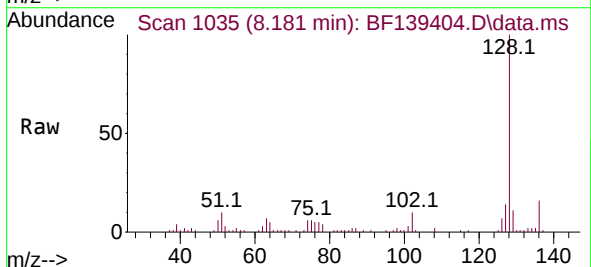
Tgt Ion:128 Resp: 29011

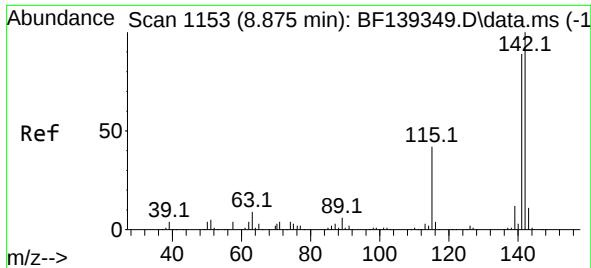
Ion Ratio Lower Upper

128 100

129 11.1 8.6 13.0

127 14.5 10.6 16.0





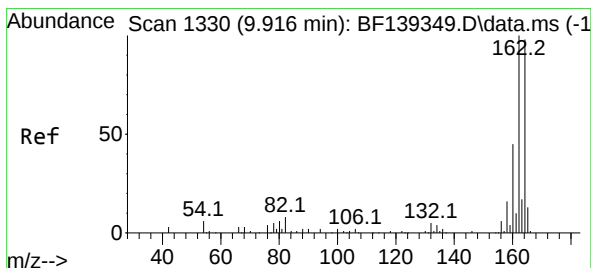
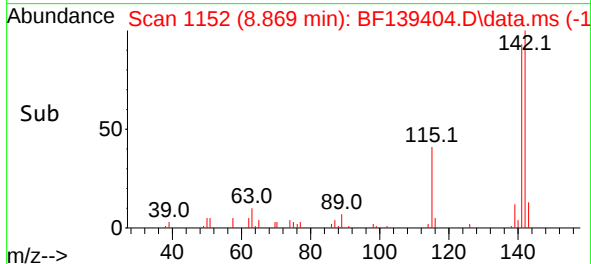
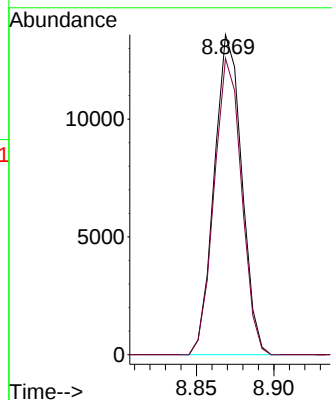
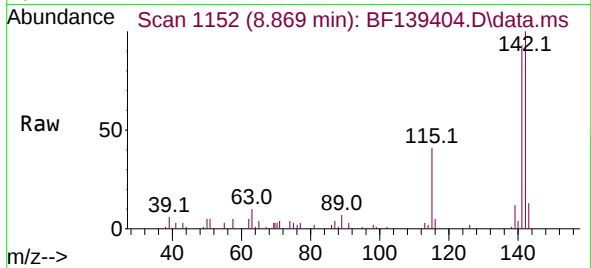
#37
2-Methylnaphthalene
Concen: 2.114 ng
RT: 8.869 min Scan# 1152
Delta R.T. -0.006 min
Lab File: BF139404.D
Acq: 17 Sep 2024 16:10

Instrument :
BNA_F
ClientSampleId :
TP-2

Tgt Ion:142 Resp: 16772
Ion Ratio Lower Upper
142 100
141 92.6 71.6 107.4

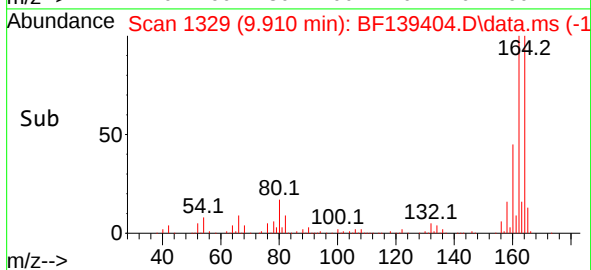
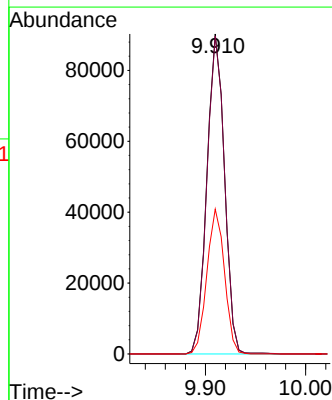
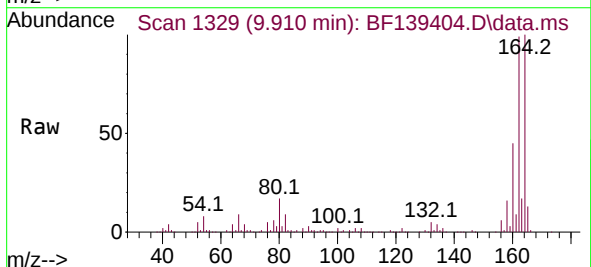
Manual Integrations
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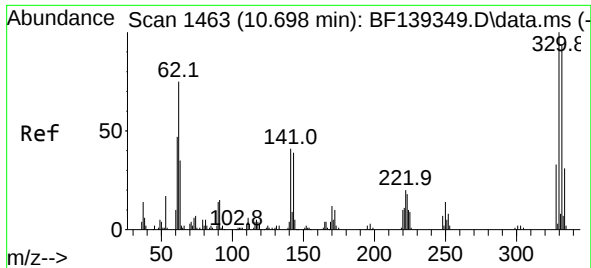
Reviewed By :Jagrut Upadhyay 09/18/2024
Supervised By :mohammad ahmed 09/19/2024



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF139404.D
Acq: 17 Sep 2024 16:10

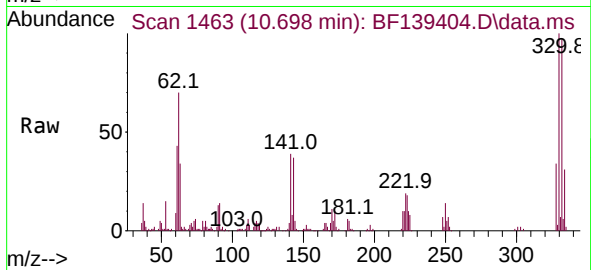
Tgt Ion:164 Resp: 110099
Ion Ratio Lower Upper
164 100
162 99.4 81.3 121.9
160 45.3 36.4 54.6





#42
2,4,6-Tribromophenol
Concen: 72.858 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.000 min
Lab File: BF139404.D
Acq: 17 Sep 2024 16:10

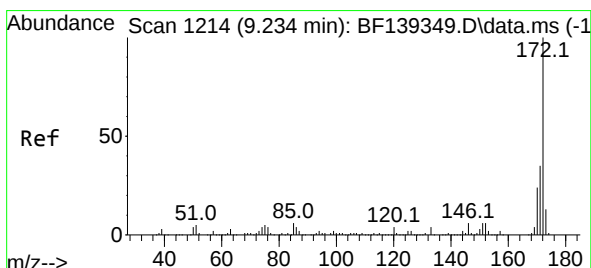
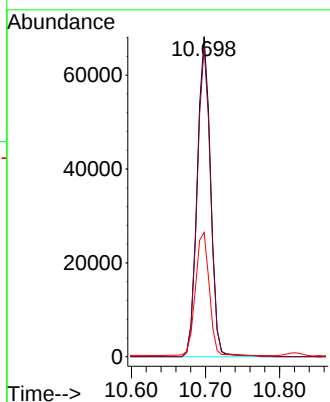
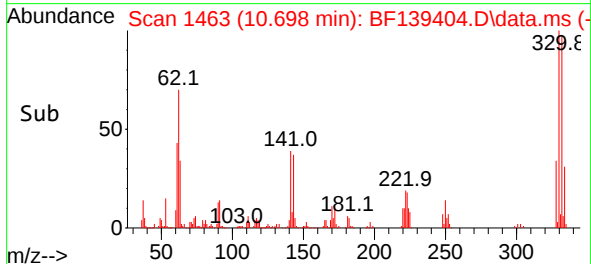
Instrument :
BNA_F
ClientSampleId :
TP-2



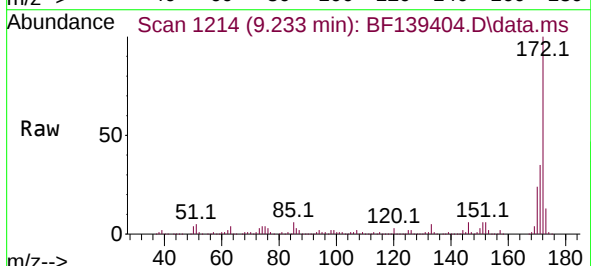
Tgt Ion: 330 Resp: 85400
Ion Ratio Lower Upper
330 100
332 96.2 75.2 112.8
141 40.0 31.2 46.8

Manual Integrations
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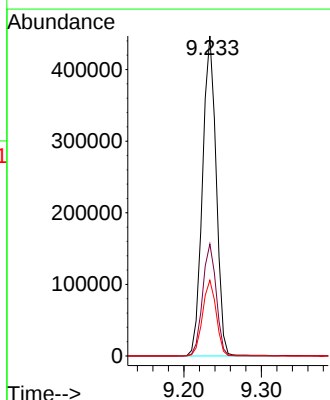
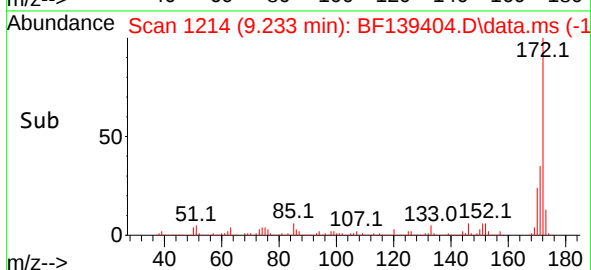
Reviewed By :Jagrut Upadhyay 09/18/2024
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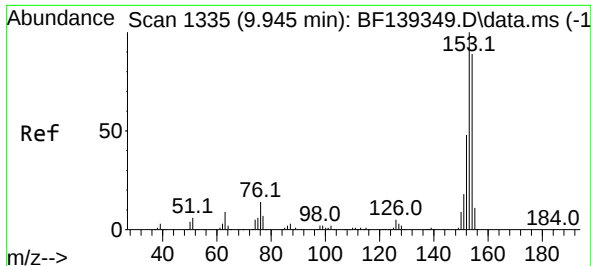


#45
2-Fluorobiphenyl
Concen: 69.831 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.000 min
Lab File: BF139404.D
Acq: 17 Sep 2024 16:10



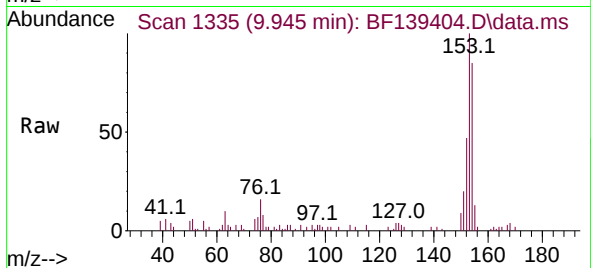
Tgt Ion: 172 Resp: 548180
Ion Ratio Lower Upper
172 100
171 35.0 28.3 42.5
170 23.6 19.0 28.6





#52
Acenaphthene
Concen: 2.168 ng
RT: 9.945 min Scan# 1335
Delta R.T. -0.000 min
Lab File: BF139404.D
Acq: 17 Sep 2024 16:10

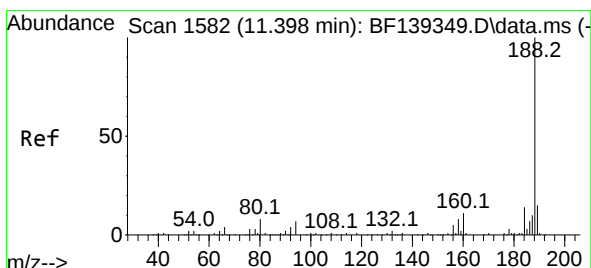
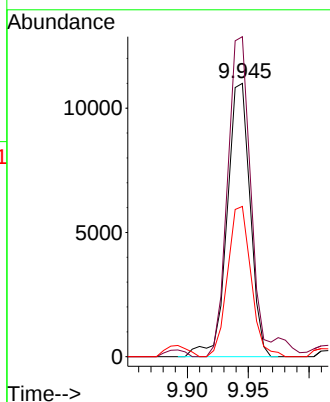
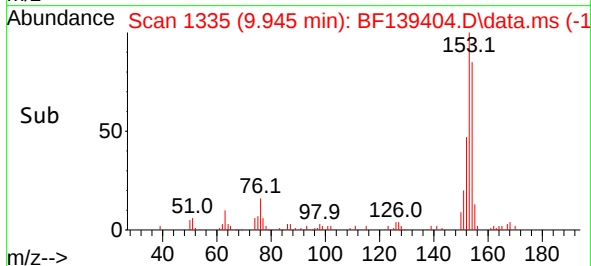
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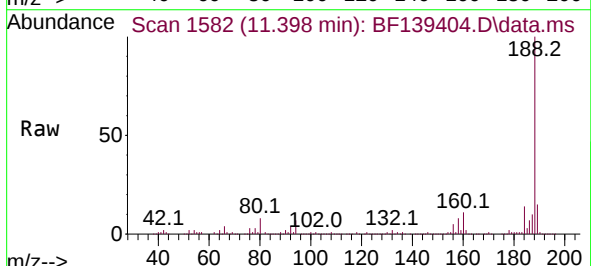
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Ion Ratio Lower Upper
154 100
153 117.1 89.5 134.3
152 55.0 42.6 64.0

Manual Integrations
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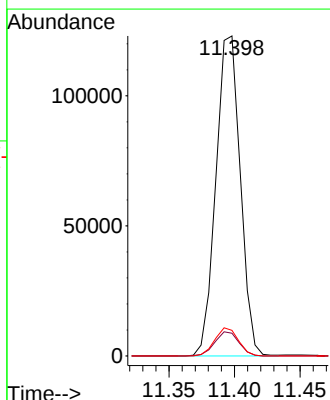
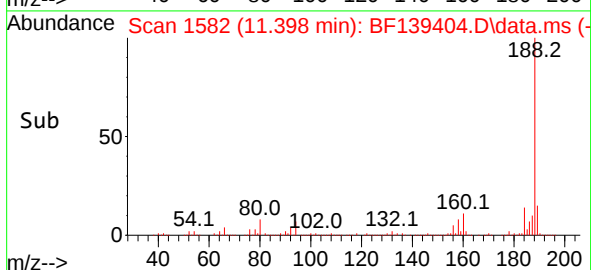
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Supervised By :mohammad ahmed 09/19/2024

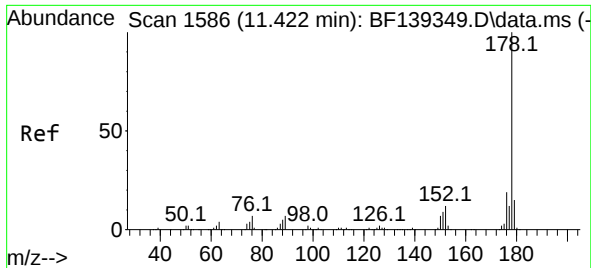


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BF139404.D
Acq: 17 Sep 2024 16:10



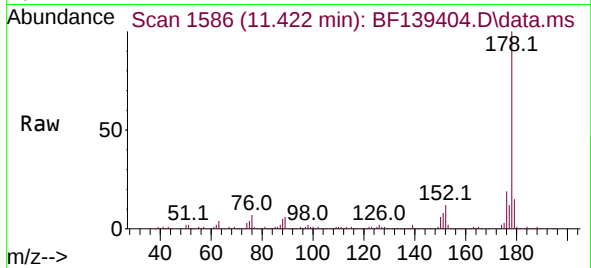
Tgt Ion:188 Resp: 158871
Ion Ratio Lower Upper
188 100
94 7.1 5.5 8.3
80 8.0 6.6 9.8





#71
Phenanthrene
Concen: 16.454 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF139404.D
Acq: 17 Sep 2024 16:10

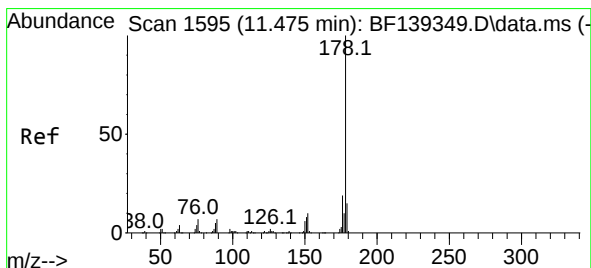
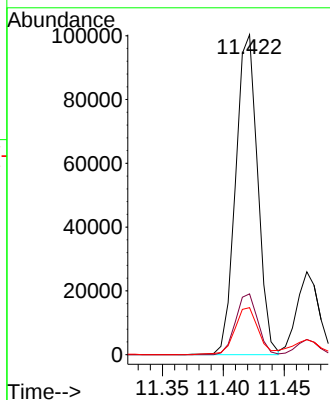
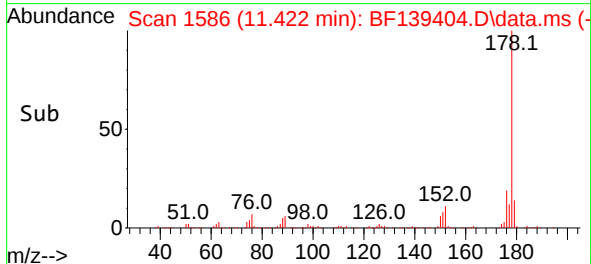
Instrument :
BNA_F
ClientSampleId :
TP-2



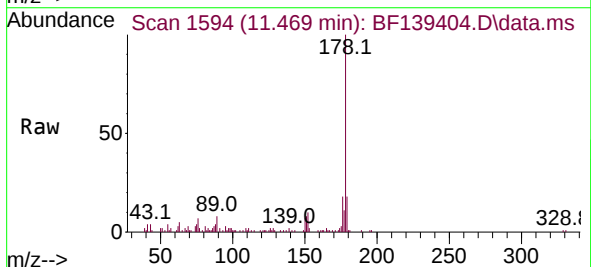
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Ion Ratio Lower Upper
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176 19.0 15.2 22.8
179 14.7 12.2 18.4

Manual Integrations
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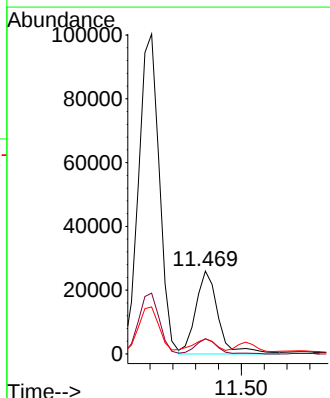
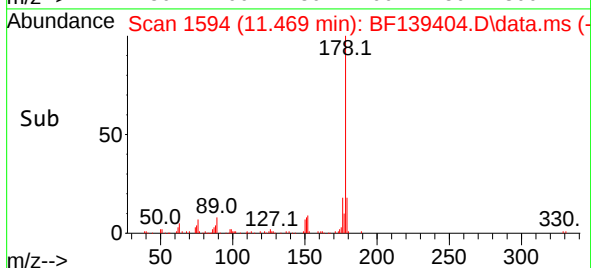
Reviewed By :Jagrut Upadhyay 09/18/2024
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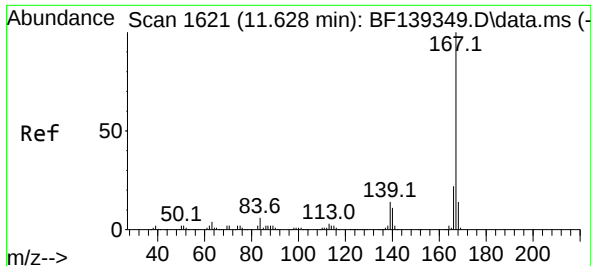


#72
Anthracene
Concen: 4.740 ng m
RT: 11.469 min Scan# 1594
Delta R.T. -0.006 min
Lab File: BF139404.D
Acq: 17 Sep 2024 16:10



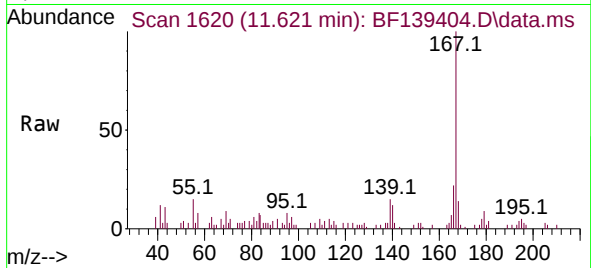
Tgt Ion:178 Resp: 35523
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 18.1 12.0 18.0#





#73
 Carbazole
 Concen: 2.006 ng
 RT: 11.621 min Scan# 1621
 Delta R.T. -0.006 min
 Lab File: BF139404.D
 Acq: 17 Sep 2024 16:10

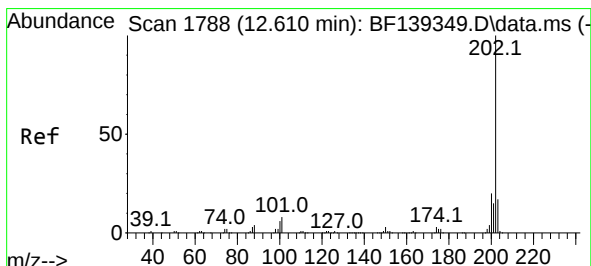
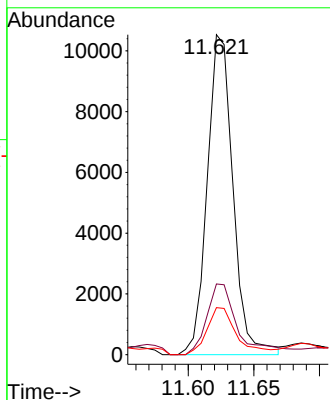
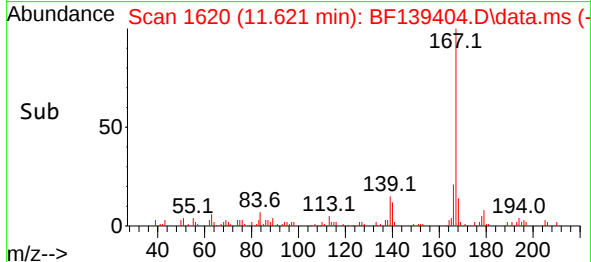
Instrument :
 BNA_F
 ClientSampleId :
 TP-2



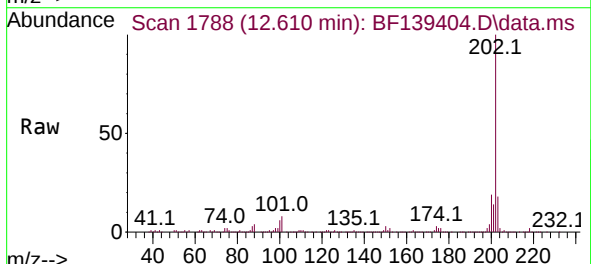
Tgt Ion:167 Resp: 14390
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.5 26.3
 139 14.7 10.9 16.3

Manual Integrations
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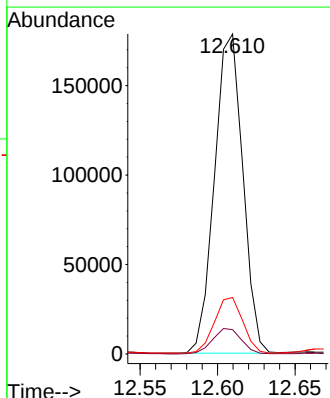
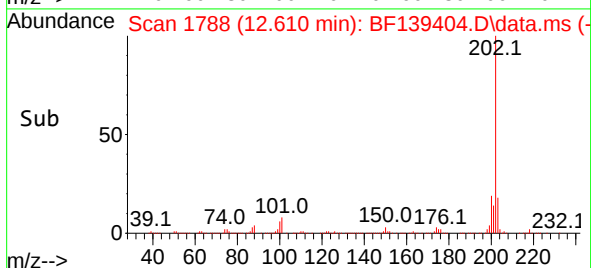
Reviewed By :Jagrut Upadhyay 09/18/2024
 Supervised By :mohammad ahmed 09/19/2024

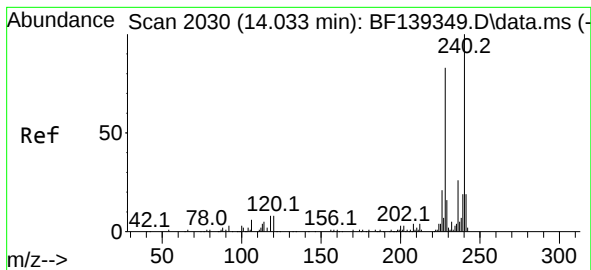


#75
 Fluoranthene
 Concen: 27.720 ng
 RT: 12.610 min Scan# 1788
 Delta R.T. -0.000 min
 Lab File: BF139404.D
 Acq: 17 Sep 2024 16:10



Tgt Ion:202 Resp: 226900
 Ion Ratio Lower Upper
 202 100
 101 7.6 0.0 27.7
 203 17.6 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.000 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Instrument :

BNA_F

ClientSampleId :

TP-2

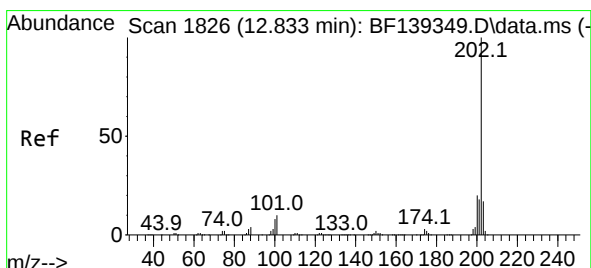
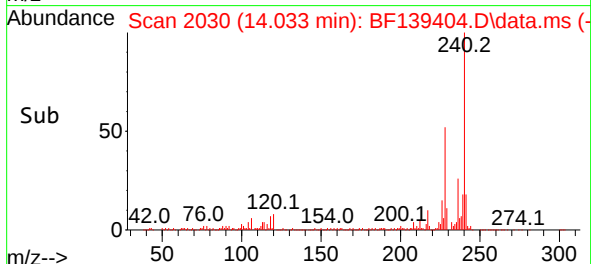
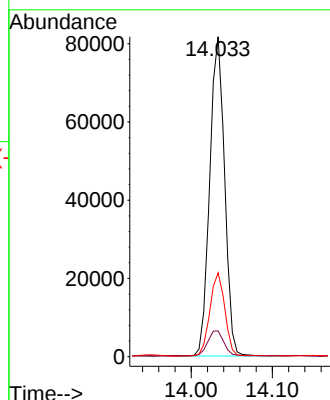
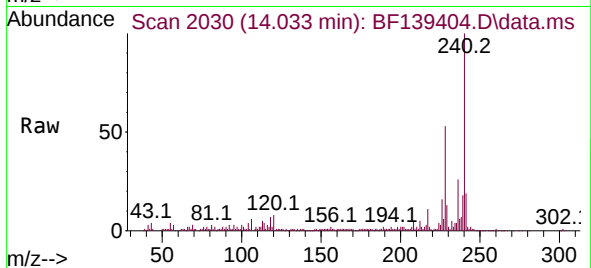
Tgt Ion:240 Resp: 103780

Ion	Ratio	Lower	Upper
240	100		
120	8.0	6.2	9.2
236	26.2	20.9	31.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/18/2024
Supervised By :mohammad ahmed 09/19/2024



#78

Pyrene

Concen: 24.986 ng

RT: 12.839 min Scan# 1827

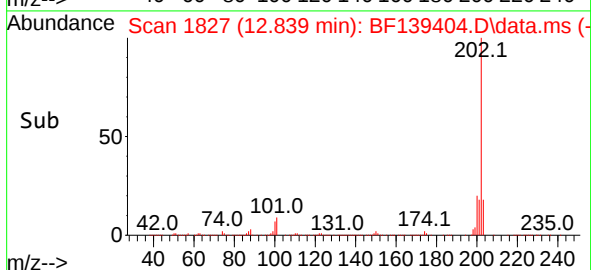
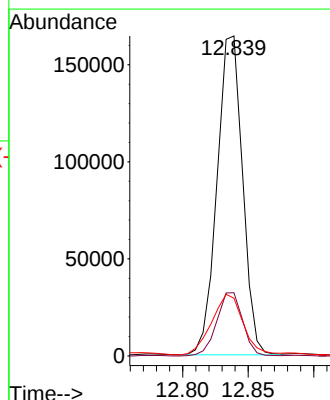
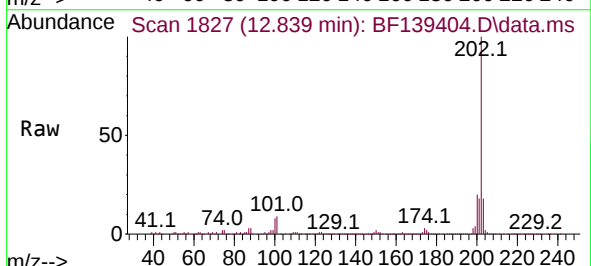
Delta R.T. 0.006 min

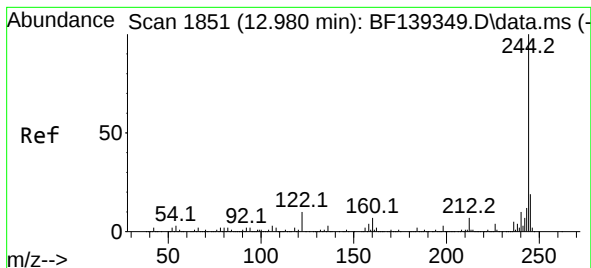
Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Tgt Ion:202 Resp: 222659

Ion	Ratio	Lower	Upper
202	100		
200	19.8	16.2	24.2
203	18.0	13.9	20.9





#79

Terphenyl-d14

Concen: 63.276 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.000 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Instrument :

BNA_F

ClientSampleId :

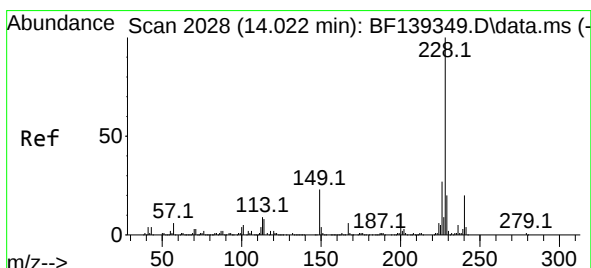
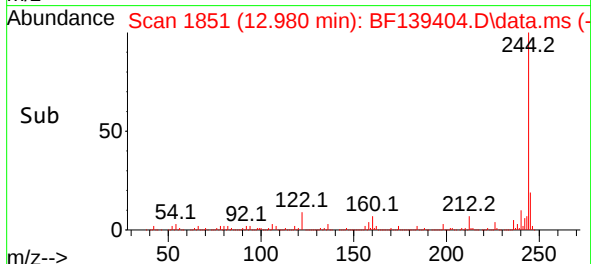
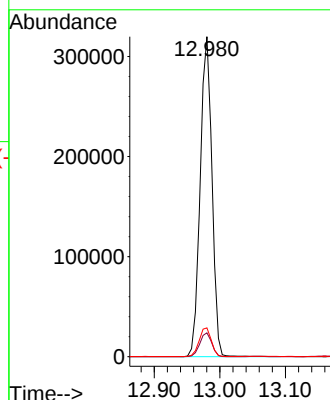
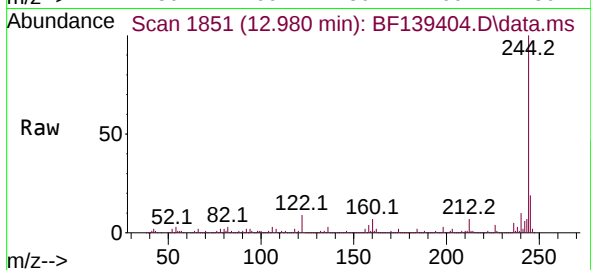
TP-2

Tgt Ion:	244	Resp:	40009
Ion Ratio	Lower	Upper	
244	100		
212	7.5	6.0	9.0
122	9.0	7.6	11.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/18/2024
Supervised By :mohammad ahmed 09/19/2024



#81

Benzo(a)anthracene

Concen: 18.453 ng

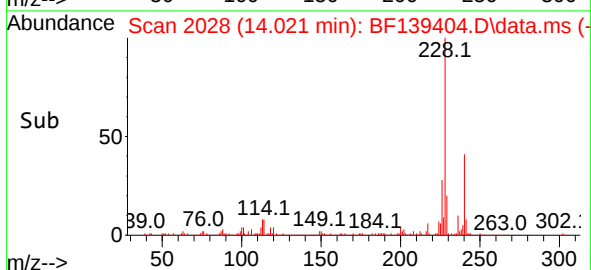
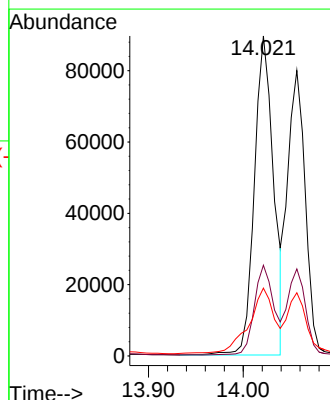
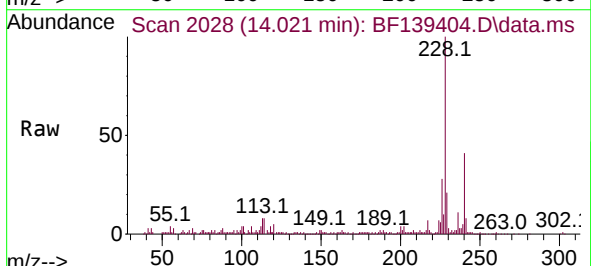
RT: 14.021 min Scan# 2028

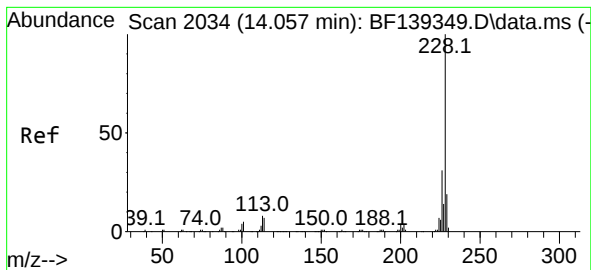
Delta R.T. -0.000 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Tgt Ion:	228	Resp:	126861
Ion Ratio	Lower	Upper	
228	100		
226	28.4	21.6	32.4
229	21.2	15.7	23.5





#83

Chrysene

Concen: 16.209 ng

RT: 14.057 min Scan# 2034

Delta R.T. -0.000 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:228 Resp: 102518

Ion Ratio Lower Upper

228 100

226 30.5 24.1 36.1

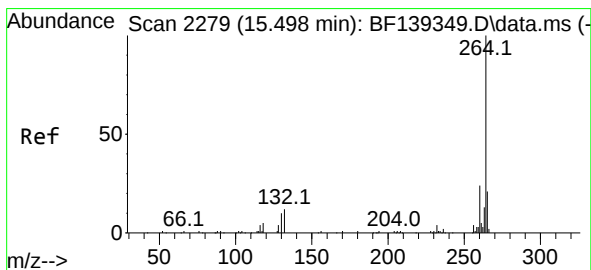
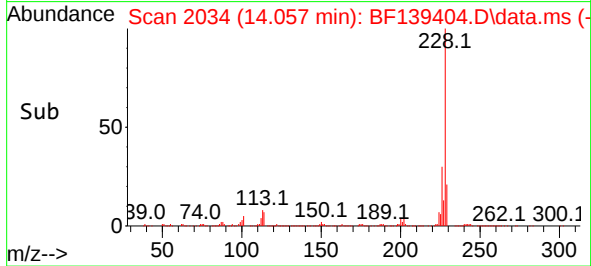
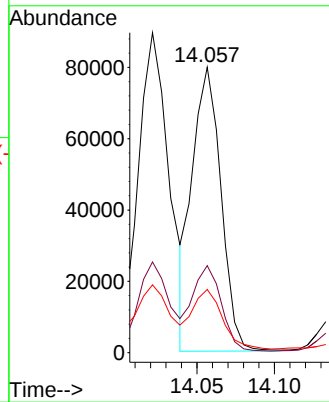
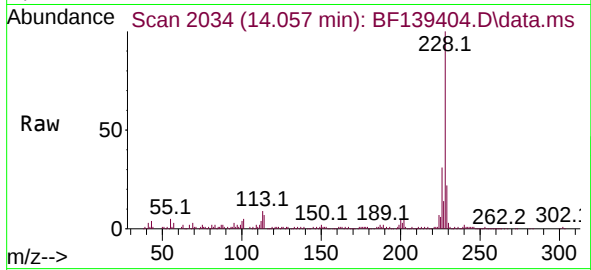
229 22.2 15.4 23.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/18/2024

Supervised By :mohammad ahmed 09/19/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 2280

Delta R.T. 0.006 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

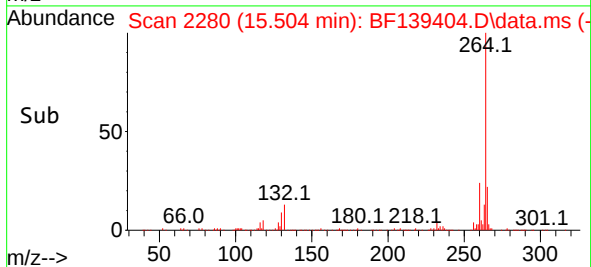
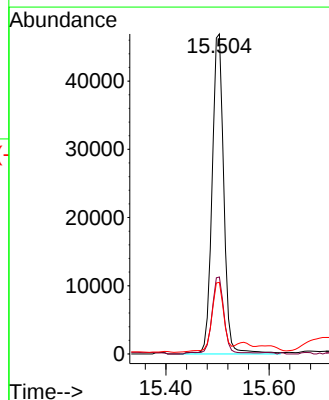
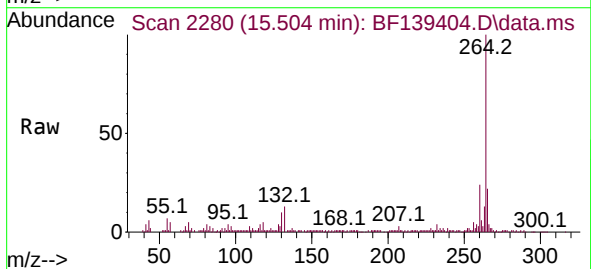
Tgt Ion:264 Resp: 73888

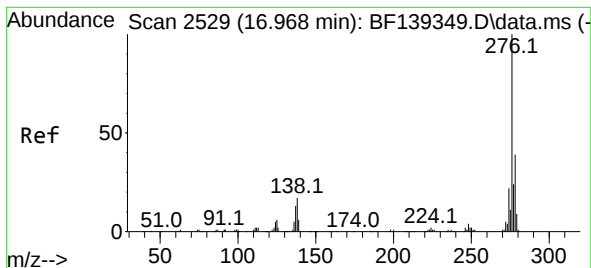
Ion Ratio Lower Upper

264 100

260 24.1 19.5 29.3

265 22.4 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.181 ng

RT: 16.962 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Instrument :

BNA_F

ClientSampleId :

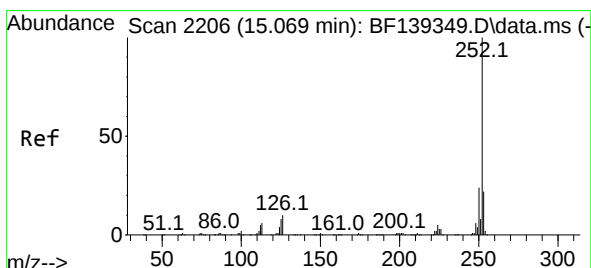
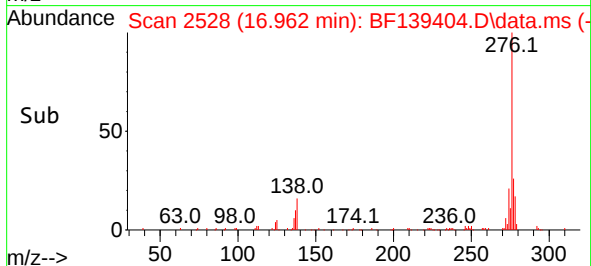
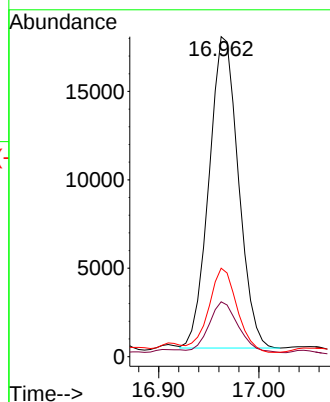
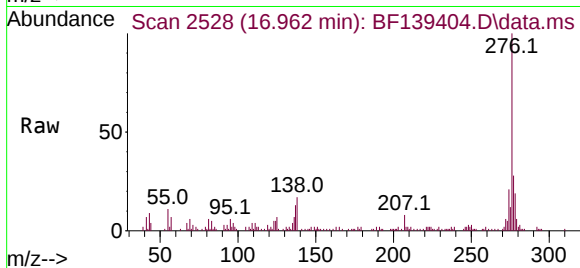
TP-2

Tgt Ion:	276	Resp:	3594
Ion Ratio	Lower	Upper	
276	100		
138	16.5	15.4	23.2
277	26.2	20.4	30.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/18/2024
Supervised By :mohammad ahmed 09/19/2024



#88

Benzo(b)fluoranthene

Concen: 21.261 ng m

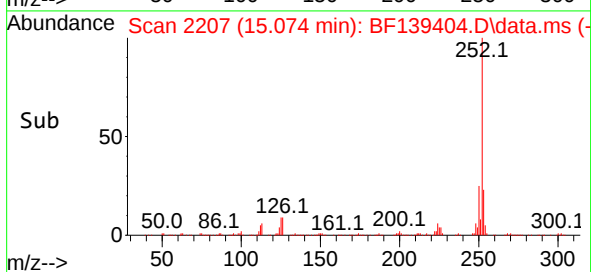
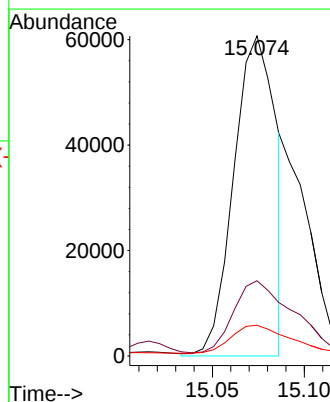
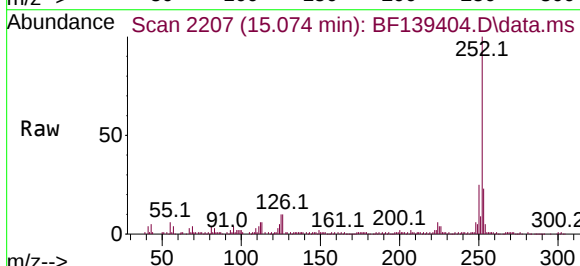
RT: 15.074 min Scan# 2207

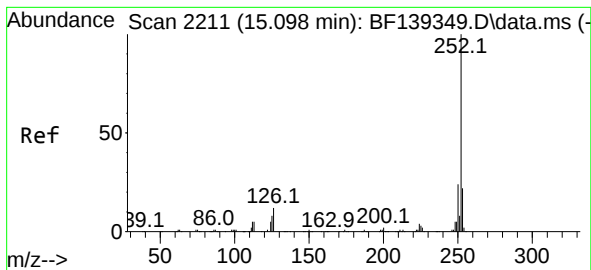
Delta R.T. 0.006 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Tgt Ion:	252	Resp:	96884
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.6	26.4
125	9.6	6.2	9.2#





#89

Benzo(k)fluoranthene

Concen: 9.549 ng m

RT: 15.086 min Scan# 2211

Delta R.T. -0.012 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:252 Resp: 40120

Ion Ratio Lower Upper

252 100

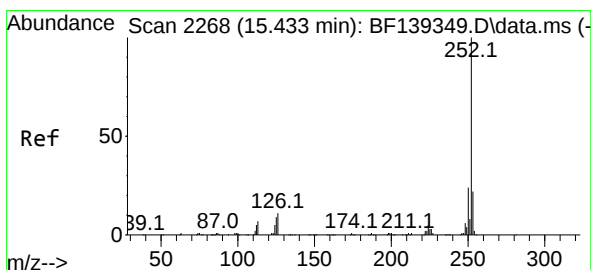
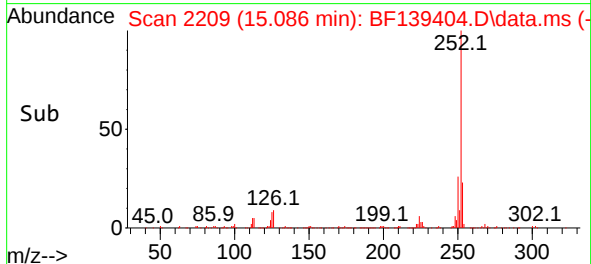
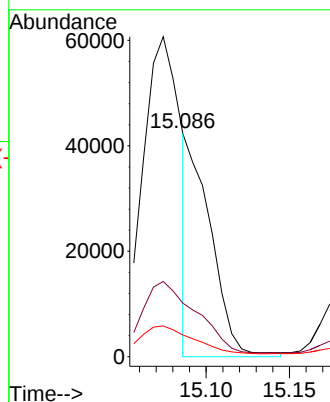
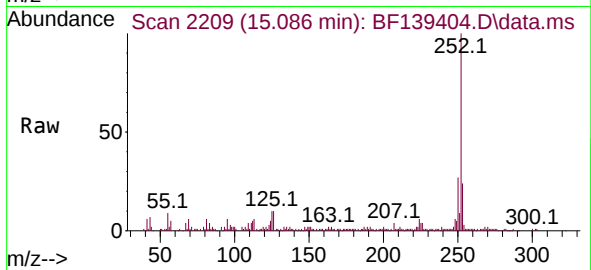
253 24.0 17.3 25.9

125 9.7 5.9 8.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/18/2024
Supervised By :mohammad ahmed 09/19/2024



#90

Benzo(a)pyrene

Concen: 18.453 ng

RT: 15.439 min Scan# 2269

Delta R.T. 0.006 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

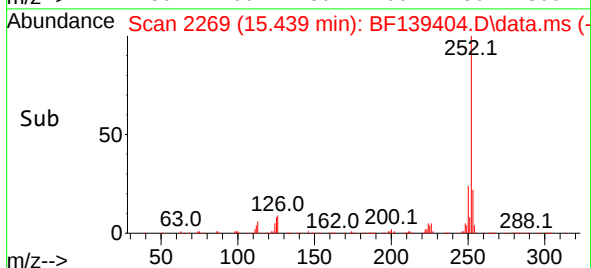
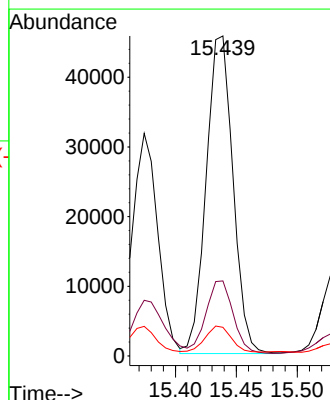
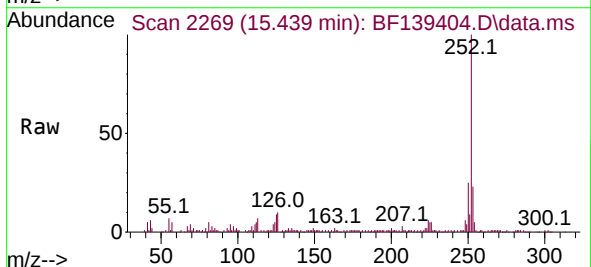
Tgt Ion:252 Resp: 69740

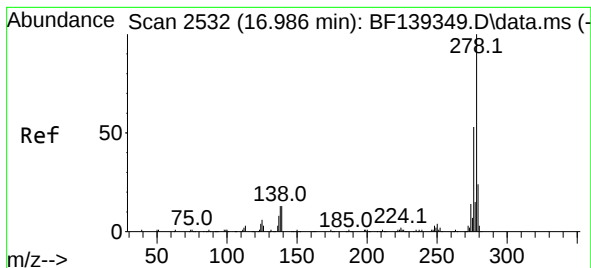
Ion Ratio Lower Upper

252 100

253 23.5 17.3 25.9

125 8.9 6.8 10.2





#91

Dibenzo(a,h)anthracene

Concen: 2.734 ng m

RT: 16.974 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Instrument :

BNA_F

ClientSampleId :

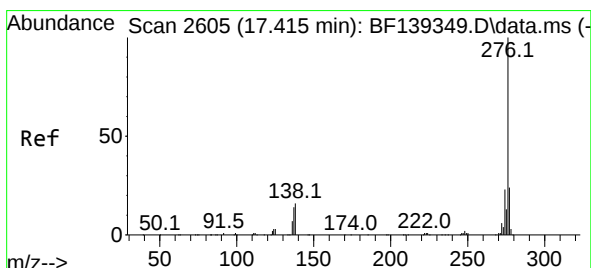
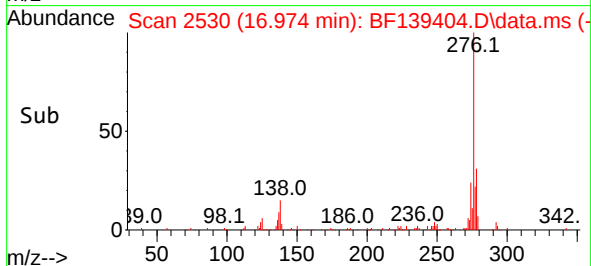
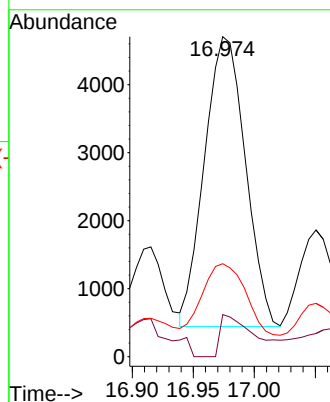
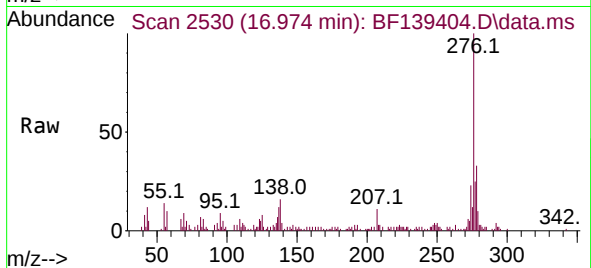
TP-2

Tgt Ion: 278	Resp: 992
Ion Ratio	Lower Upper
278 100	
139 13.2	10.2 15.2
279 29.0	18.9 28.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 09/18/2024
Supervised By :mohammad ahmed 09/19/2024



#92

Benzo(g,h,i)perylene

Concen: 10.768 ng

RT: 17.409 min Scan# 2604

Delta R.T. -0.006 min

Lab File: BF139404.D

Acq: 17 Sep 2024 16:10

Tgt Ion: 276	Resp: 38706
Ion Ratio	Lower Upper
276 100	
277 26.9	18.9 28.3
138 16.6	13.0 19.6

