

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071723\
 Data File : BF134332.D
 Acq On : 18 Jul 2023 00:17
 Operator : CG\JU
 Sample : 03613-01 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-4-071323

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/19/2023
 Supervised By :mohammad ahmed 07/19/2023

Quant Time: Jul 18 01:19:43 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 14 22:51:27 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.840	152	64034	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	217897	20.000	ng	0.00
39) Acenaphthene-d10	9.875	164	93164	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	177034	20.000	ng	0.00
76) Chrysene-d12	14.039	240	94980	20.000	ng	0.00
86) Perylene-d12	15.545	264	85411	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	148115	38.692	ng	0.00
7) Phenol-d6	6.475	99	174495	37.066	ng	-0.01
23) Nitrobenzene-d5	7.398	82	108179	26.762	ng	-0.01
42) 2,4,6-Tribromophenol	10.669	330	45509	38.960	ng	-0.01
45) 2-Fluorobiphenyl	9.192	172	193406	30.182	ng	-0.01
79) Terphenyl-d14	12.974	244	194595	32.974	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.834	142	15874	2.133	ng	96
71) Phenanthrene	11.398	178	52224	5.860	ng	97
75) Fluoranthene	12.598	202	89422	9.281	ng	97
78) Pyrene	12.833	202	79961	9.046	ng	99
81) Benzo(a)anthracene	14.027	228	29773	4.520	ng	# 89
83) Chrysene	14.063	228	30093m	4.717	ng	
88) Benzo(b)fluoranthene	15.098	252	31652m	6.302	ng	
89) Benzo(k)fluoranthene	15.121	252	11429m	2.235	ng	
90) Benzo(a)pyrene	15.480	252	22075	4.546	ng	# 81

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

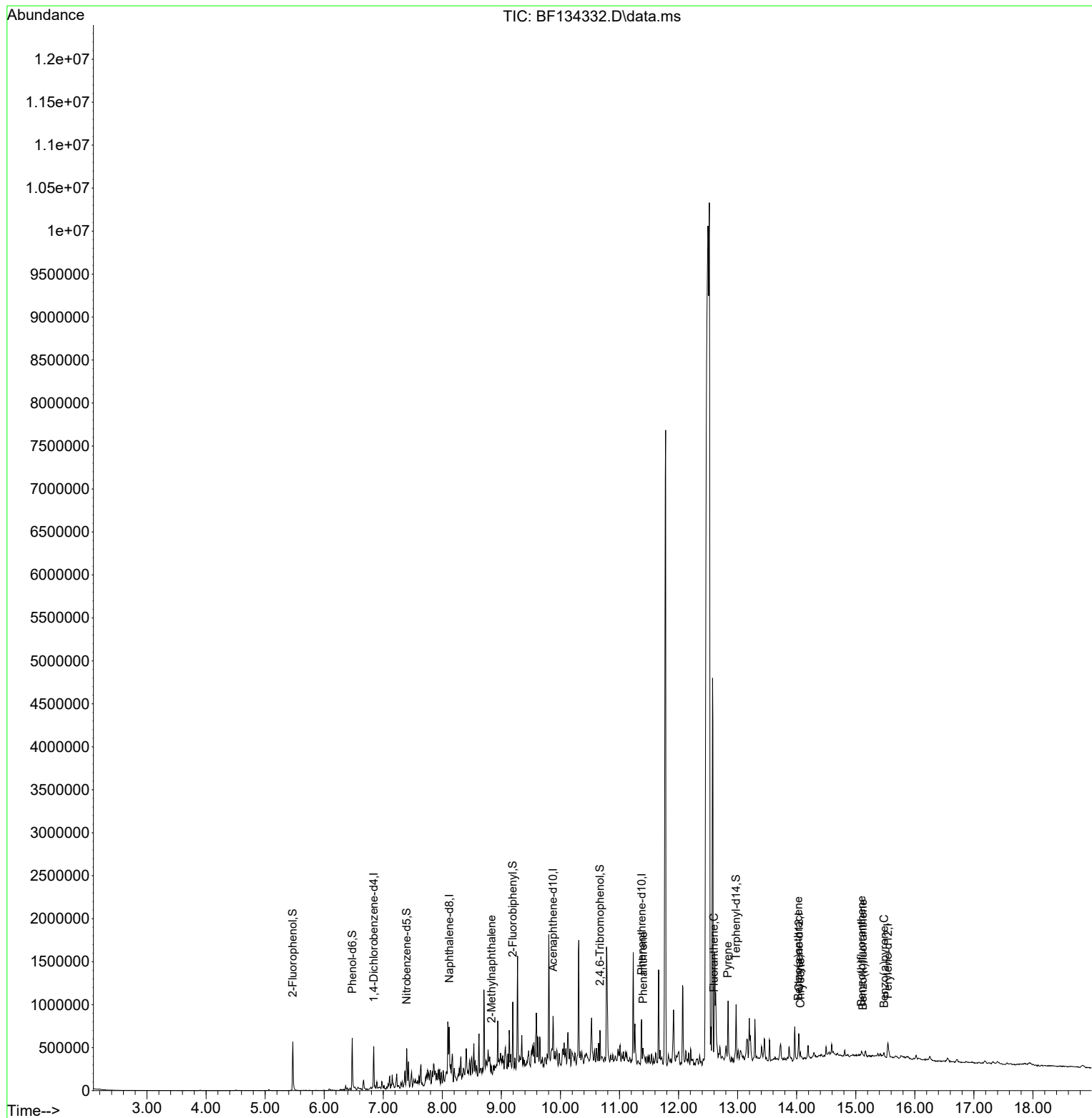
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071723\
Data File : BF134332.D
Acq On : 18 Jul 2023 00:17
Operator : CG\JU
Sample : 03613-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

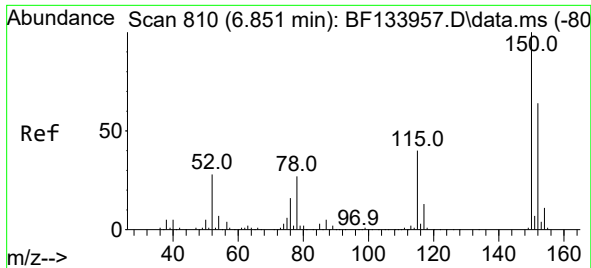
Instrument :
BNA_F
ClientSampleId :
TR-4-071323

Quant Time: Jul 18 01:19:43 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

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Supervised By :mohammad ahmed 07/19/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 80
Delta R.T. -0.005 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

Instrument :

BNA_F

ClientSampleId :

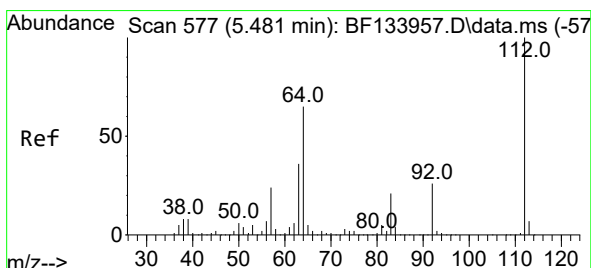
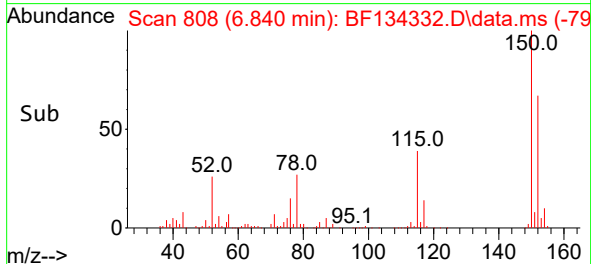
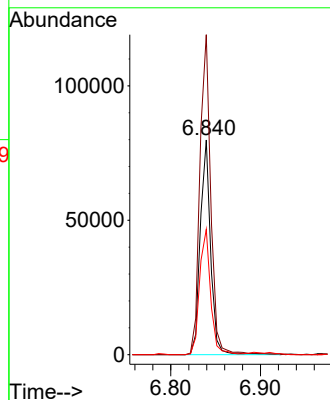
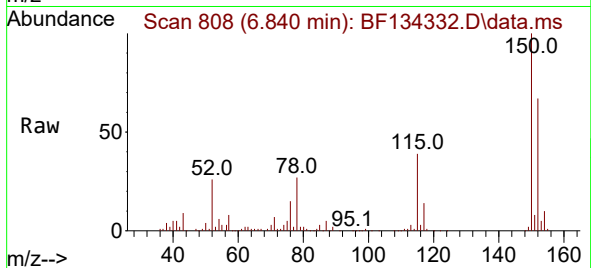
TR-4-071323

Tgt Ion:152 Resp: 64034
Ion Ratio Lower Upper
152 100
150 149.0 124.5 186.7
115 58.3 50.2 75.2

Manual Integrations

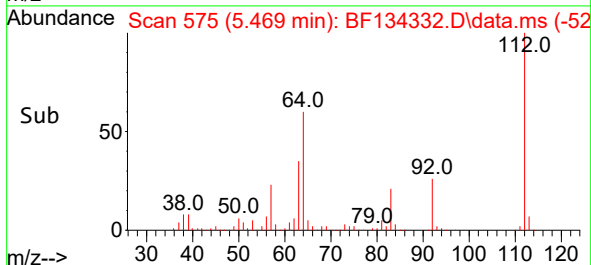
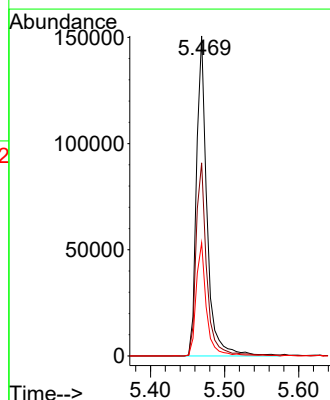
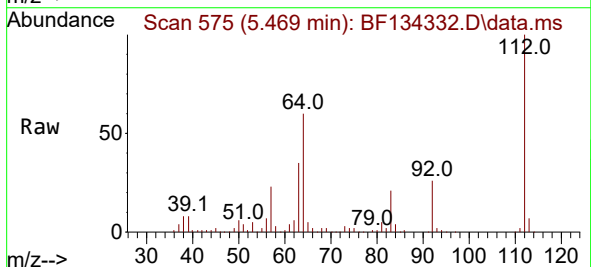
APPROVED

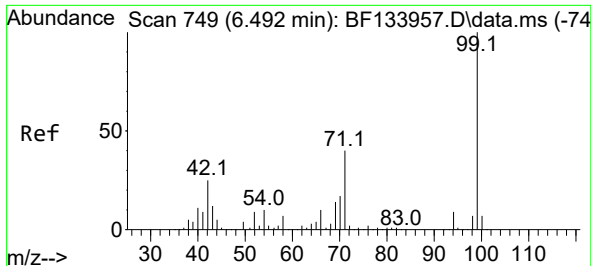
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#5
2-Fluorophenol
Concen: 38.692 ng
RT: 5.469 min Scan# 575
Delta R.T. 0.000 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

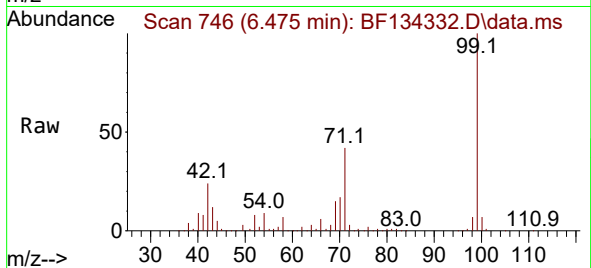
Tgt Ion:112 Resp: 148115
Ion Ratio Lower Upper
112 100
64 60.3 52.1 78.1
63 35.4 28.6 42.8





#7
Phenol-d6
Concen: 37.066 ng
RT: 6.475 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

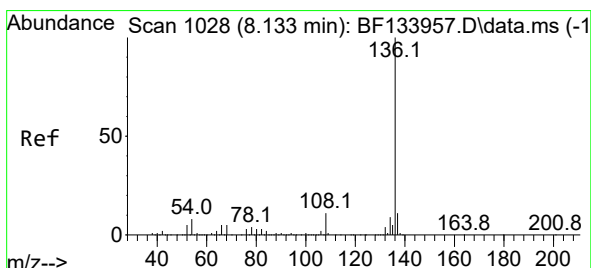
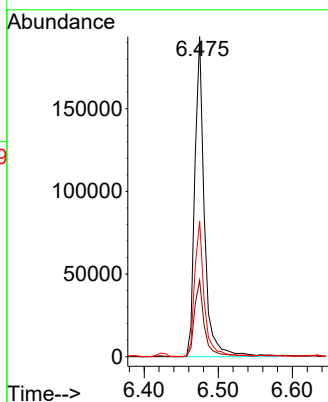
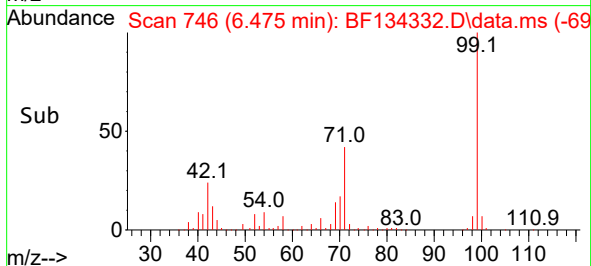
Instrument :
BNA_F
ClientSampleId :
TR-4-071323



Tgt Ion: 99 Resp: 17449
Ion Ratio Lower Upper
99 100
42 23.8 19.8 29.6
71 42.3 31.9 47.9

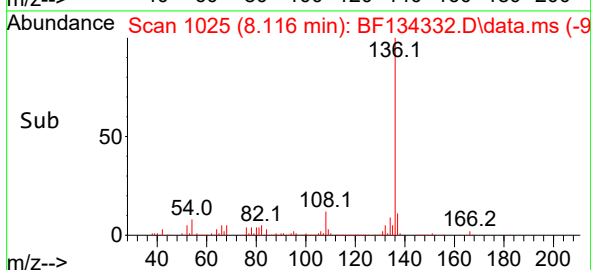
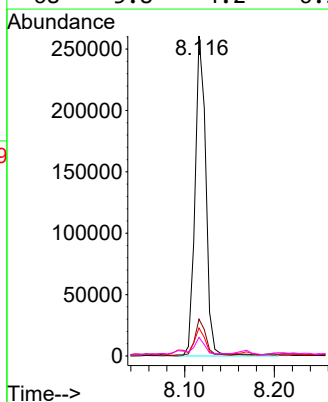
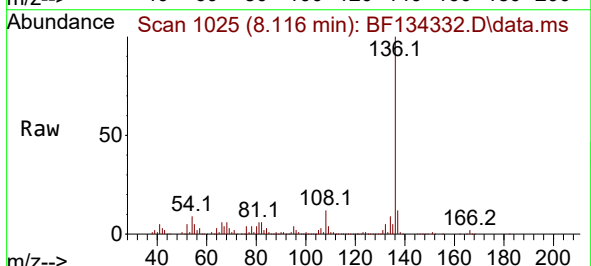
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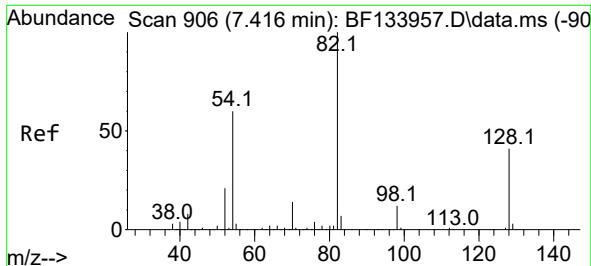
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

Tgt Ion:136 Resp: 217897
Ion Ratio Lower Upper
136 100
137 11.5 8.6 12.8
54 8.7 6.5 9.7
68 5.8 4.2 6.2





#23

Nitrobenzene-d5

Concen: 26.762 ng

RT: 7.398 min Scan# 906

Delta R.T. -0.012 min

Lab File: BF134332.D

Acq: 18 Jul 2023 00:17

Instrument :

BNA_F

ClientSampleId :

TR-4-071323

Tgt Ion: 82 Resp: 108179

Ion Ratio Lower Upper

82 100

128 40.7 32.5 48.7

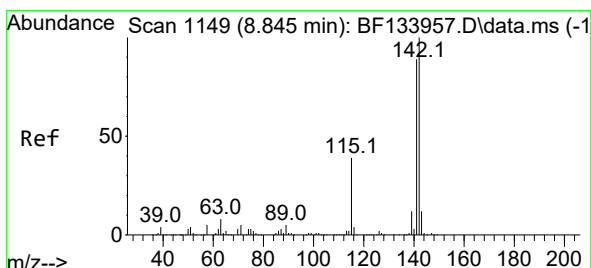
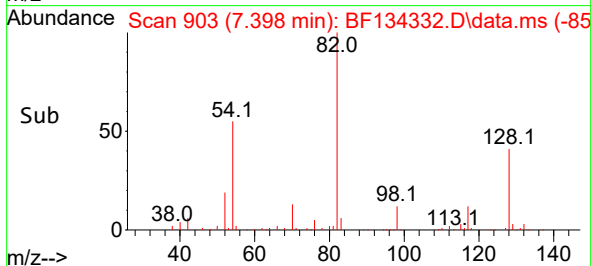
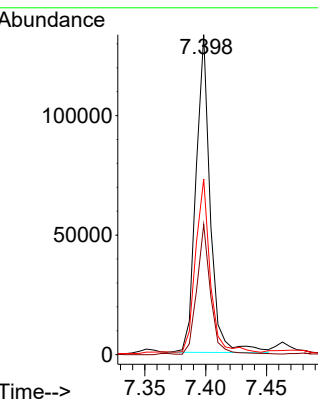
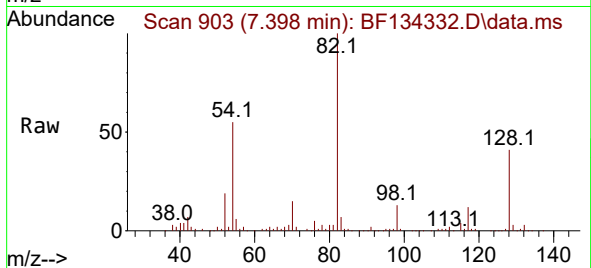
54 54.9 48.2 72.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#37

2-Methylnaphthalene

Concen: 2.133 ng

RT: 8.834 min Scan# 1147

Delta R.T. -0.006 min

Lab File: BF134332.D

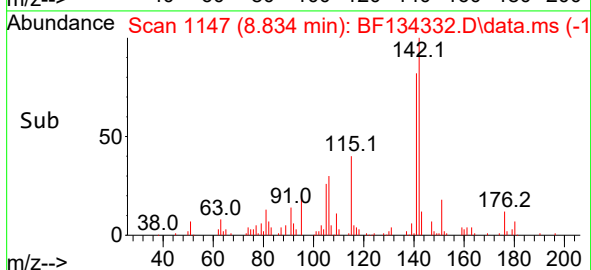
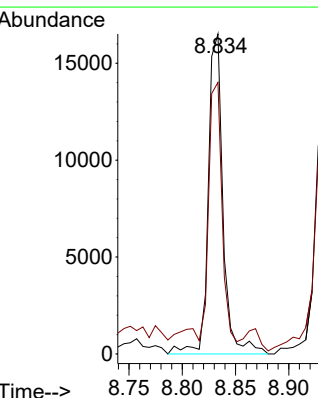
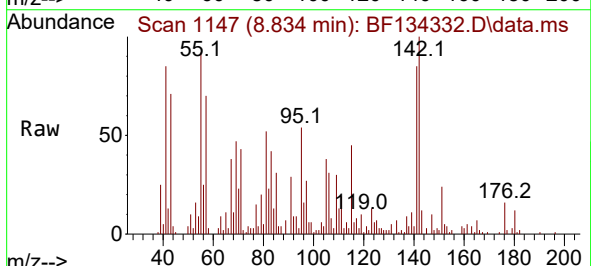
Acq: 18 Jul 2023 00:17

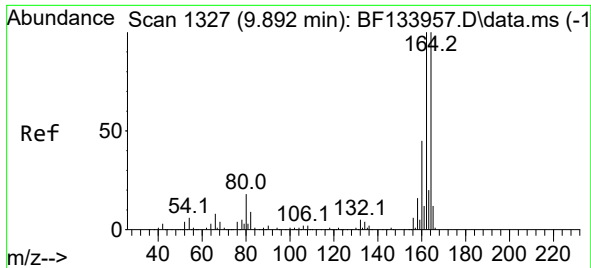
Tgt Ion:142 Resp: 15874

Ion Ratio Lower Upper

142 100

141 84.8 71.0 106.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

Instrument :

BNA_F

ClientSampleId :

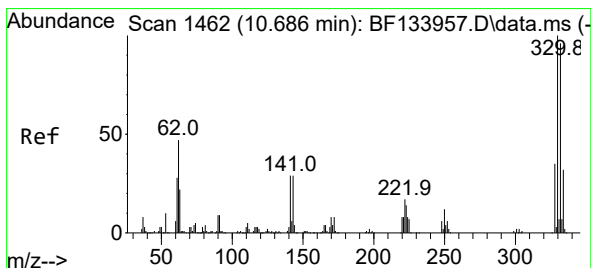
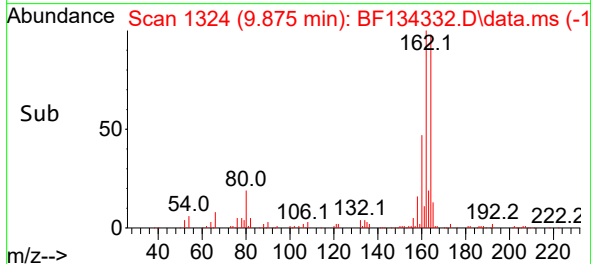
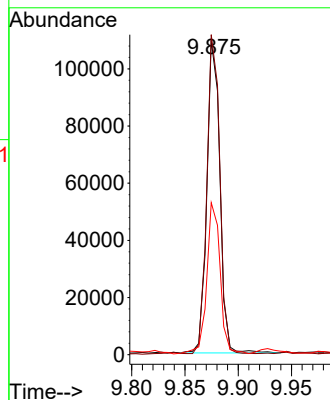
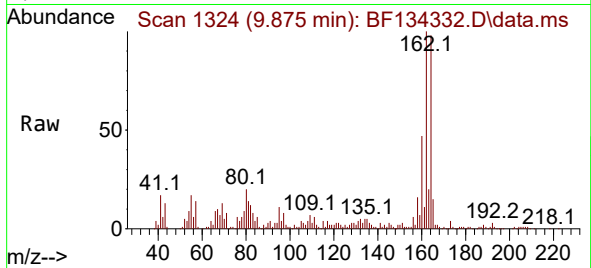
TR-4-071323

Tgt Ion:164 Resp: 93164
Ion Ratio Lower Upper
164 100
162 101.8 80.0 120.0
160 48.3 35.9 53.9

Manual Integrations

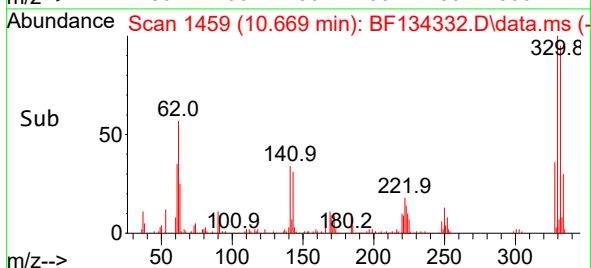
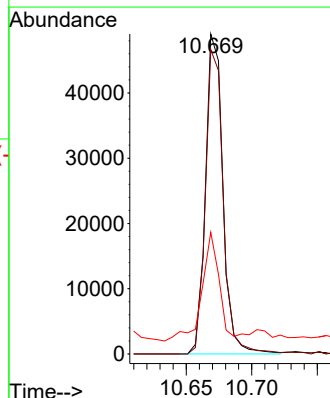
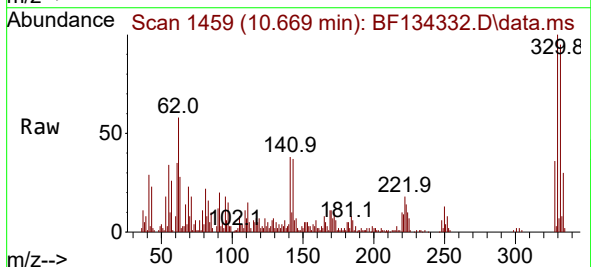
APPROVED

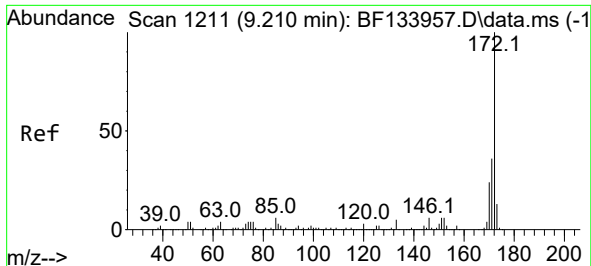
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#42
2,4,6-Tribromophenol
Concen: 38.960 ng
RT: 10.669 min Scan# 1459
Delta R.T. -0.012 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

Tgt Ion:330 Resp: 45509
Ion Ratio Lower Upper
330 100
332 97.7 77.0 115.6
141 33.5 26.3 39.5





#45
2-Fluorobiphenyl
Concen: 30.182 ng
RT: 9.192 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

Instrument :

BNA_F

ClientSampleId :

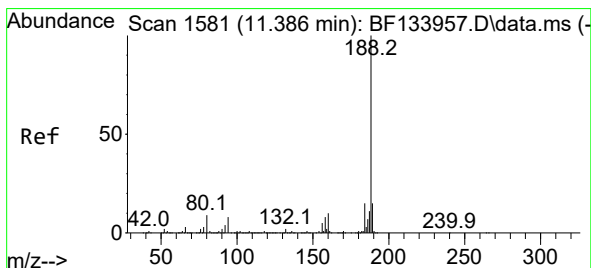
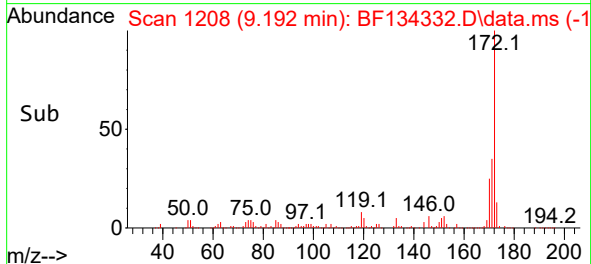
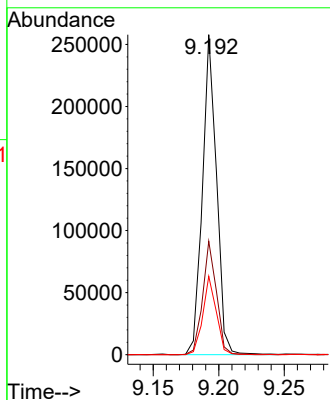
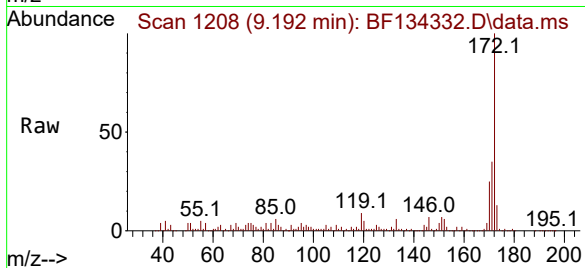
TR-4-071323

Tgt Ion:172 Resp: 193400
Ion Ratio Lower Upper
172 100
171 35.5 28.6 43.0
170 24.5 19.4 29.0

Manual Integrations

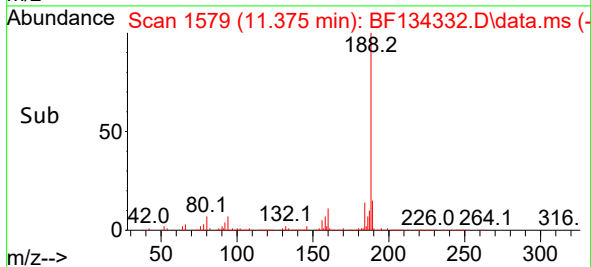
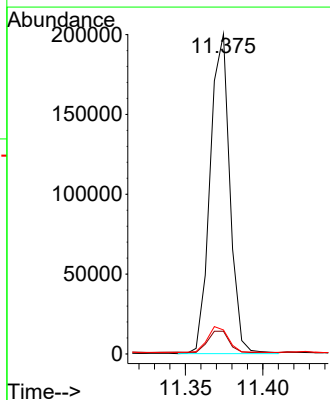
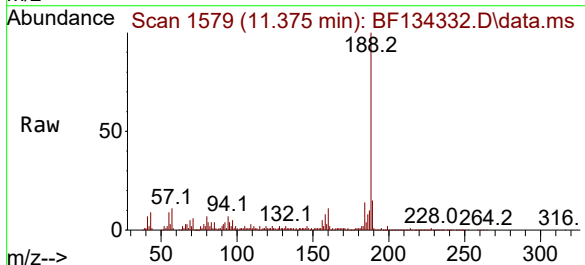
APPROVED

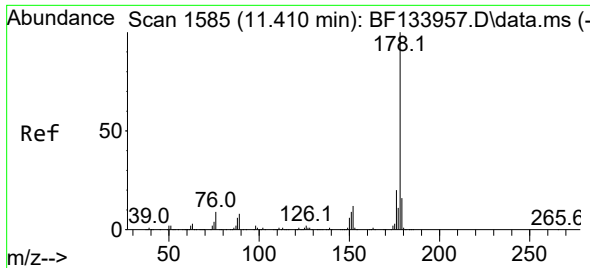
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

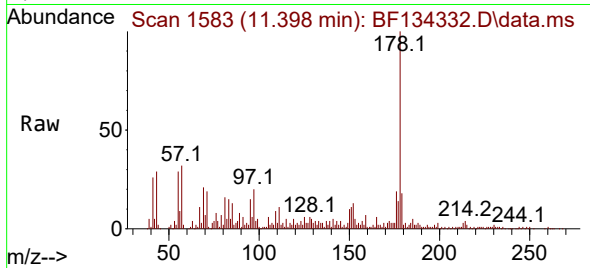
Tgt Ion:188 Resp: 177034
Ion Ratio Lower Upper
188 100
94 7.1 6.4 9.6
80 7.5 7.3 10.9





#71
Phenanthrene
Concen: 5.860 ng
RT: 11.398 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

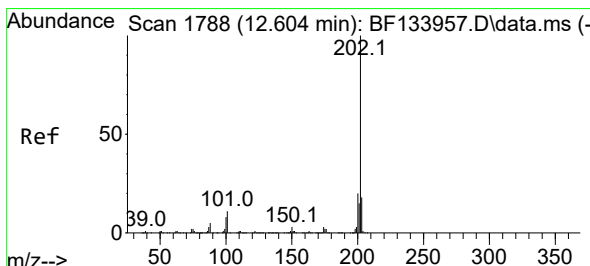
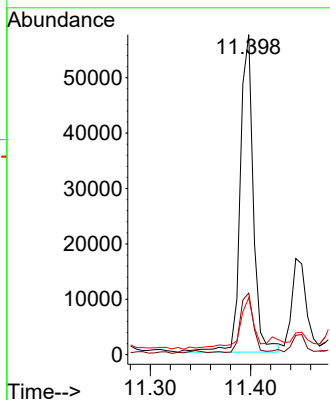
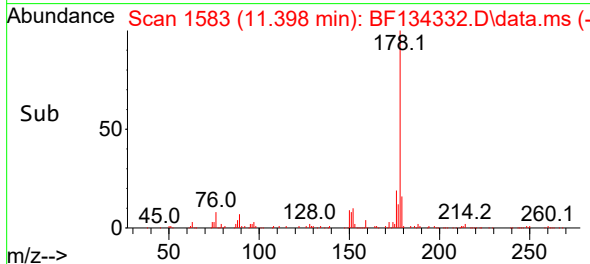
Instrument :
BNA_F
ClientSampleId :
TR-4-071323



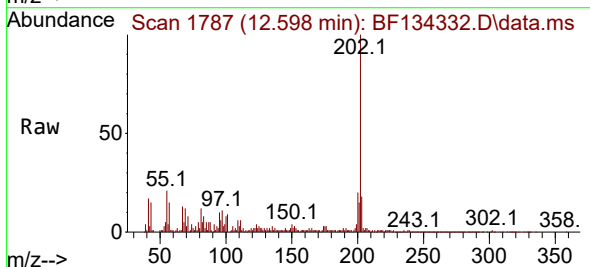
Tgt Ion:178 Resp: 52224
Ion Ratio Lower Upper
178 100
176 19.2 16.0 24.0
179 17.8 12.4 18.6

Manual Integrations
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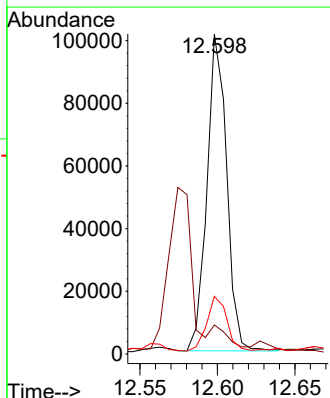
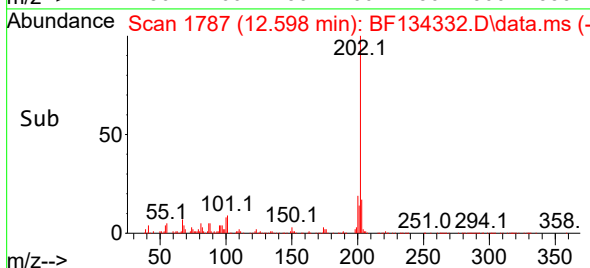
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023

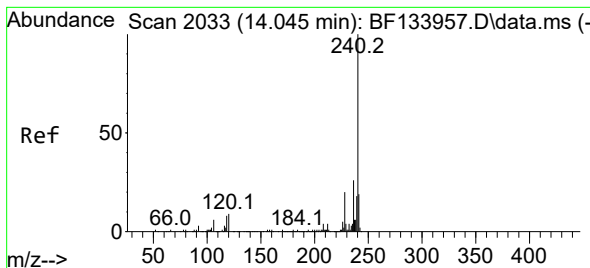


#75
Fluoranthene
Concen: 9.281 ng
RT: 12.598 min Scan# 1787
Delta R.T. 0.000 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17



Tgt Ion:202 Resp: 89422
Ion Ratio Lower Upper
202 100
101 9.0 0.0 31.0
203 18.0 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2033

Delta R.T. 0.000 min

Lab File: BF134332.D

Acq: 18 Jul 2023 00:17

Instrument :

BNA_F

ClientSampleId :

TR-4-071323

Tgt Ion:240 Resp: 94980

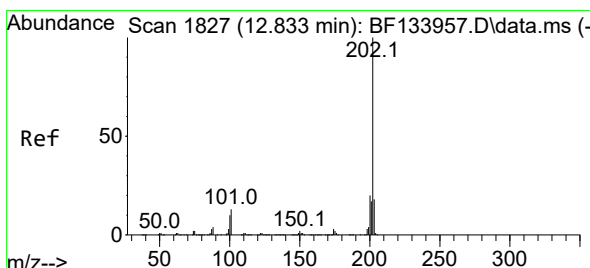
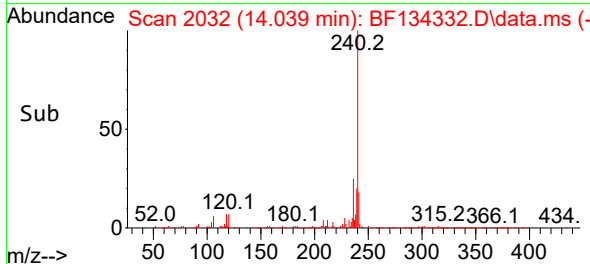
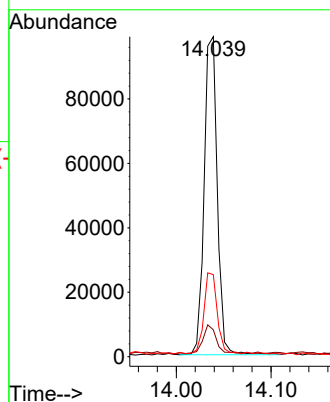
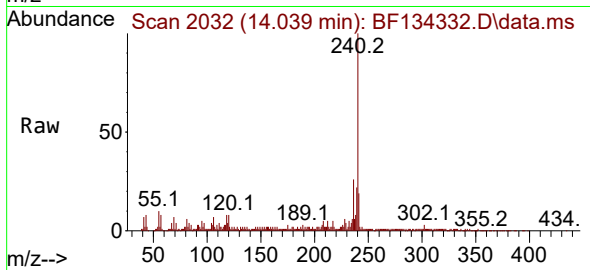
Ion	Ratio	Lower	Upper
240	100		
120	8.4	7.4	11.0
236	25.6	21.0	31.6

Manual Integrations

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Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#78

Pyrene

Concen: 9.046 ng

RT: 12.833 min Scan# 1827

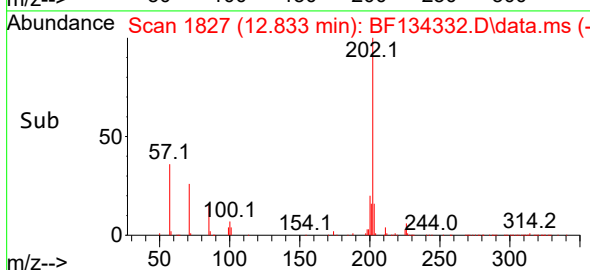
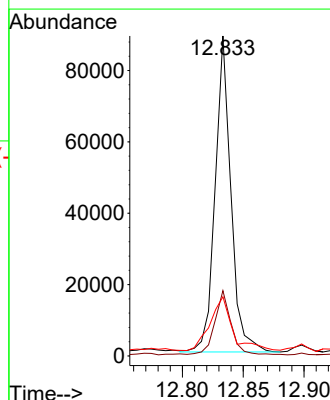
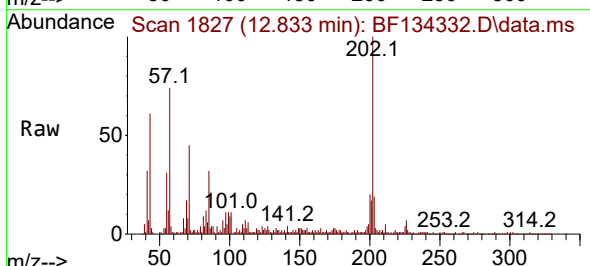
Delta R.T. 0.000 min

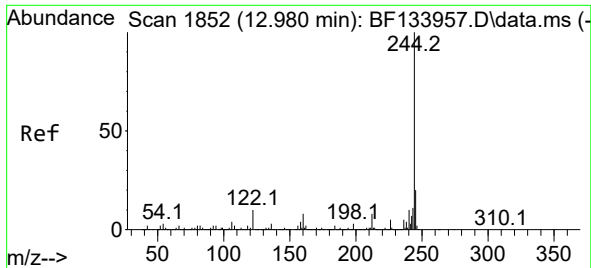
Lab File: BF134332.D

Acq: 18 Jul 2023 00:17

Tgt Ion:202 Resp: 79961

Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.1	24.1
203	18.5	14.3	21.5





#79
Terphenyl-d14
Concen: 32.974 ng
RT: 12.974 min Scan# 1852
Delta R.T. 0.000 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

Instrument :

BNA_F

ClientSampleId :

TR-4-071323

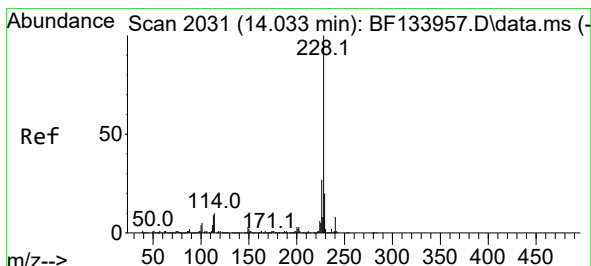
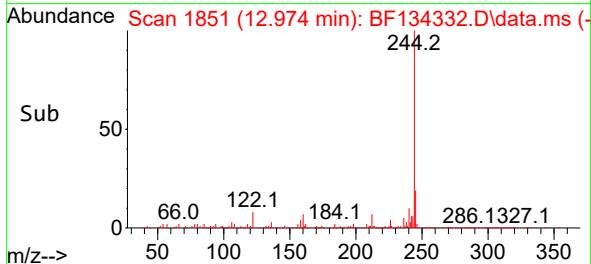
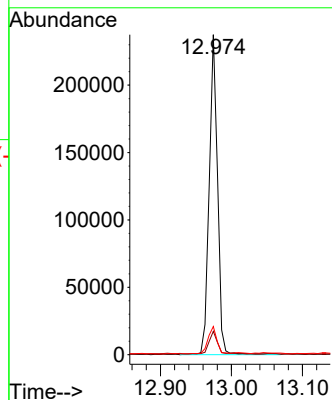
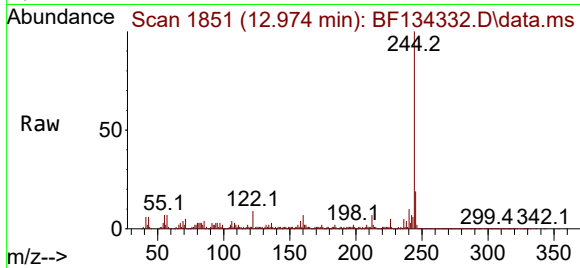
Tgt Ion:244 Resp: 19459
Ion Ratio Lower Upper
244 100
212 7.3 6.0 9.0
122 8.8 8.3 12.5

Manual Integrations

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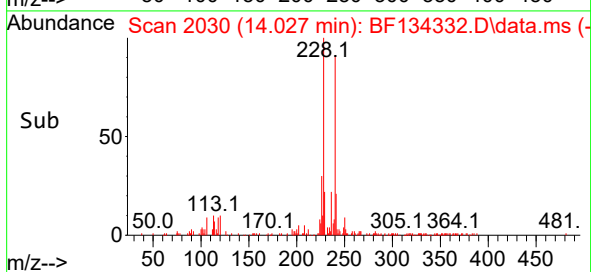
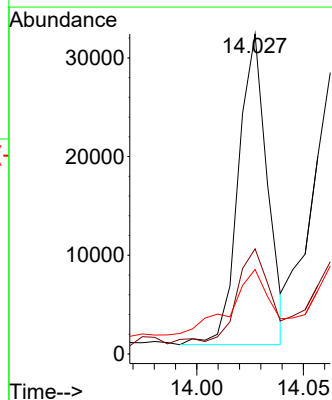
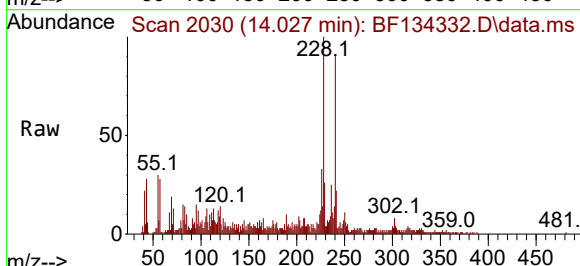
Reviewed By :Yogesh Patel 07/19/2023

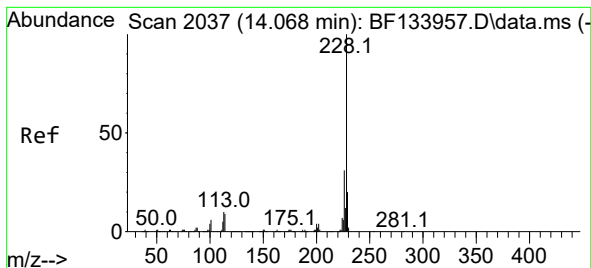
Supervised By :mohammad ahmed 07/19/2023



#81
Benzo(a)anthracene
Concen: 4.520 ng
RT: 14.027 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

Tgt Ion:228 Resp: 29773
Ion Ratio Lower Upper
228 100
226 32.9 22.0 33.0
229 26.4 16.3 24.5#





#83

Chrysene

Concen: 4.717 ng m

RT: 14.063 min Scan# 2037

Delta R.T. -0.006 min

Lab File: BF134332.D

Acq: 18 Jul 2023 00:17

Instrument :

BNA_F

ClientSampleId :

TR-4-071323

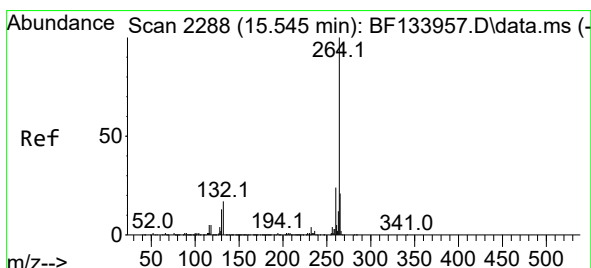
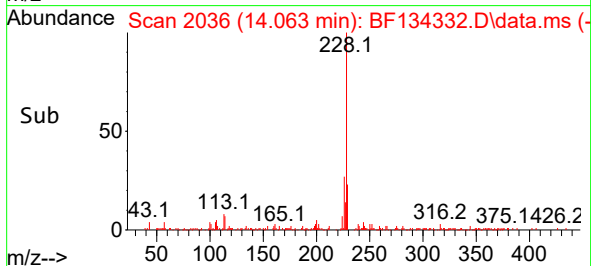
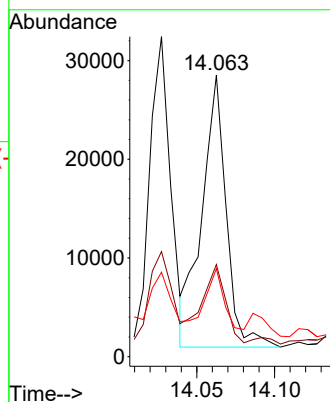
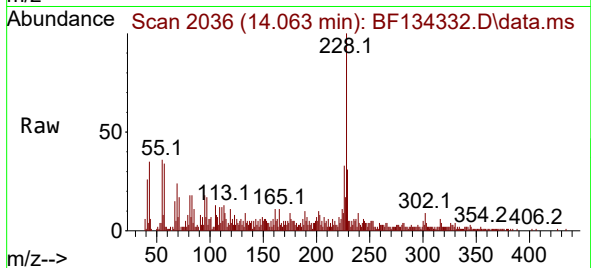
Tgt Ion:	228	Resp:	3099
Ion Ratio	Lower	Upper	
228	100		
226	32.7	24.4	36.6
229	31.3	16.1	24.1

Manual Integrations

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Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#86

Perylene-d12

Concen: 20.000 ng

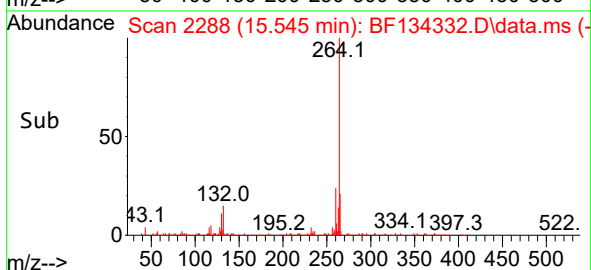
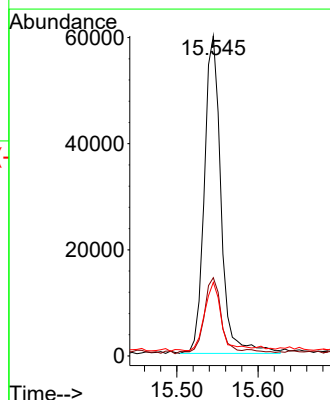
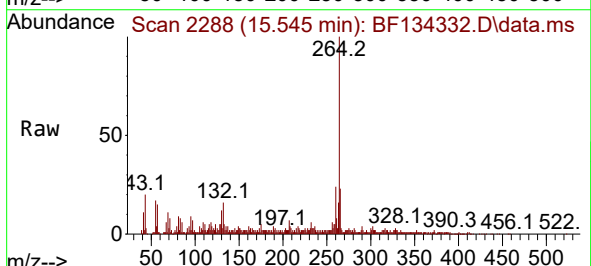
RT: 15.545 min Scan# 2288

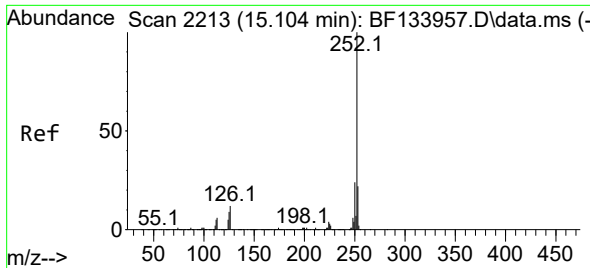
Delta R.T. 0.000 min

Lab File: BF134332.D

Acq: 18 Jul 2023 00:17

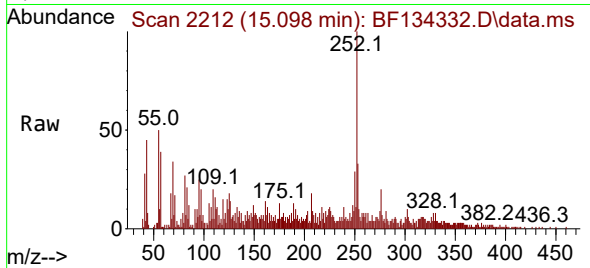
Tgt Ion:	264	Resp:	85411
Ion Ratio	Lower	Upper	
264	100		
260	24.4	19.5	29.3
265	23.0	16.6	25.0





#88
Benzo(b)fluoranthene
Concen: 6.302 ng m
RT: 15.098 min Scan# 2212
Delta R.T. -0.006 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

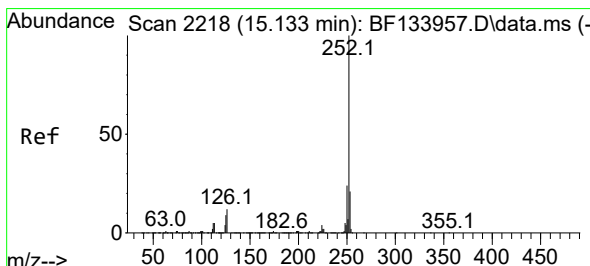
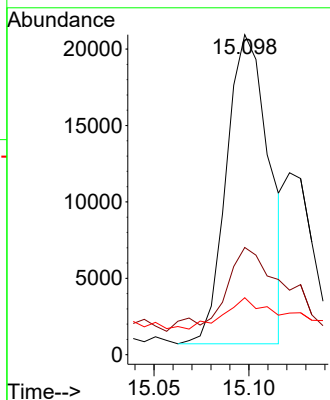
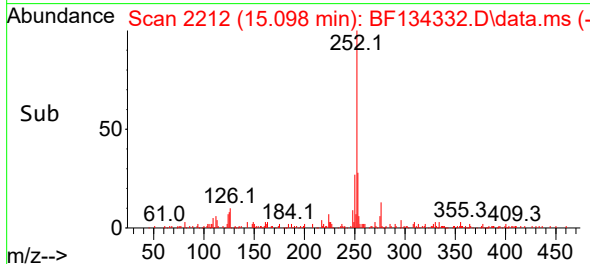
Instrument :
BNA_F
ClientSampleId :
TR-4-071323



Tgt Ion:252 Resp: 31652
Ion Ratio Lower Upper
252 100
253 33.5 17.4 26.0#
125 17.8 7.1 10.7#

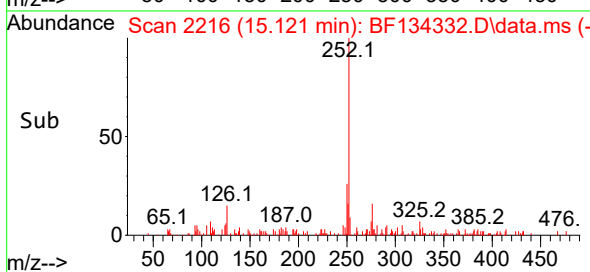
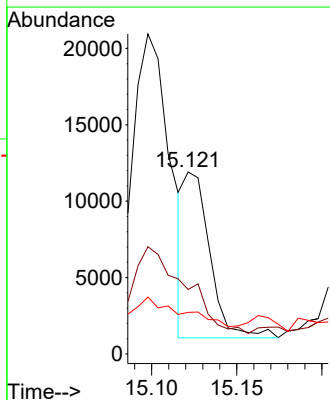
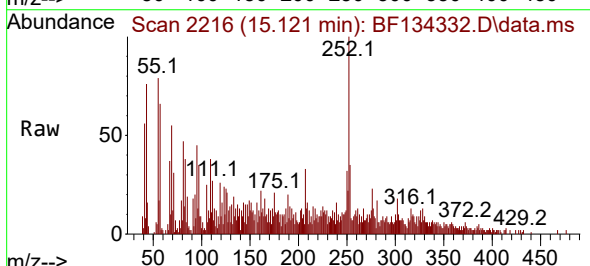
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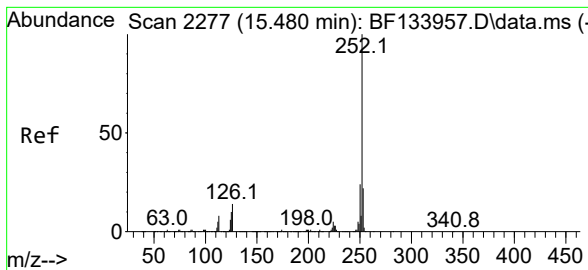
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#89
Benzo(k)fluoranthene
Concen: 2.235 ng m
RT: 15.121 min Scan# 2216
Delta R.T. -0.012 min
Lab File: BF134332.D
Acq: 18 Jul 2023 00:17

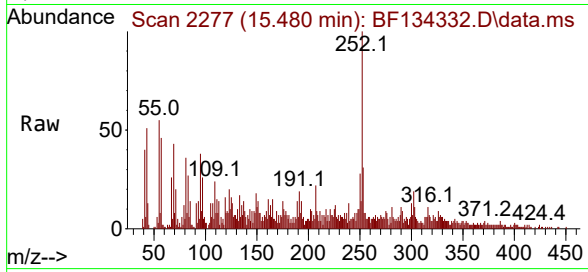
Tgt Ion:252 Resp: 11429
Ion Ratio Lower Upper
252 100
253 35.5 16.9 25.3#
125 22.9 7.4 11.2#





#90
 Benzo(a)pyrene
 Concen: 4.546 ng
 RT: 15.480 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BF134332.D
 Acq: 18 Jul 2023 00:17

Instrument :
 BNA_F
 ClientSampleId :
 TR-4-071323



Tgt Ion:	252	Resp:	22075
Ion Ratio	Lower	Upper	
252	100		
253	31.4	17.4	26.0
125	16.3	8.4	12.6

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Reviewed By :Yogesh Patel 07/19/2023
 Supervised By :mohammad ahmed 07/19/2023

