

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071823\
 Data File : BF134352.D
 Acq On : 18 Jul 2023 23:02
 Operator : CG\JU
 Sample : 03600-01DL 10X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-3-071223DL

Manual Integrations
 APPROVED

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

Quant Time: Jul 19 01:43:19 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	59011	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	221118	20.000	ng	0.00
39) Acenaphthene-d10	9.875	164	107500	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	174245	20.000	ng	0.00
76) Chrysene-d12	14.033	240	128253	20.000	ng	0.00
86) Perylene-d12	15.539	264	116291	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	20336	5.765	ng	0.00
7) Phenol-d6	6.475	99	26640	6.140	ng	-0.01
23) Nitrobenzene-d5	7.398	82	17871	4.357	ng	-0.01
42) 2,4,6-Tribromophenol	10.669	330	7862	5.833	ng	-0.01
45) 2-Fluorobiphenyl	9.186	172	39273	5.312	ng	-0.02
79) Terphenyl-d14	12.963	244	36480	4.578	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.139	128	240727	22.539	ng	98
37) 2-Methylnaphthalene	8.828	142	296375	39.240	ng	99
38) 1-Methylnaphthalene	8.928	142	259862	37.009	ng	98
46) 1,1'-Biphenyl	9.292	154	17263	2.002	ng	97
49) Acenaphthylene	9.733	152	32714	3.035	ng	# 80
52) Acenaphthene	9.910	154	165619	26.482	ng	94
55) Dibenzofuran	10.080	168	139686	14.292	ng	# 93
58) Fluorene	10.428	166	309247	40.669	ng	99
71) Phenanthrene	11.404	178	1490639	169.936	ng	99
72) Anthracene	11.451	178	418339	45.852	ng	99
73) Carbazole	11.604	167	65266	7.815	ng	96
75) Fluoranthene	12.598	202	930823	98.156	ng	99
78) Pyrene	12.833	202	1074622	90.034	ng	100
81) Benzo(a)anthracene	14.027	228	448956	50.475	ng	98
83) Chrysene	14.063	228	414978	48.169	ng	97
87) Indeno(1,2,3-cd)pyrene	17.086	276	119928	14.862	ng	# 92
88) Benzo(b)fluoranthene	15.098	252	338061m	49.439	ng	
89) Benzo(k)fluoranthene	15.121	252	106132m	15.244	ng	
90) Benzo(a)pyrene	15.480	252	284176m	42.977	ng	
91) Dibenzo(a,h)anthracene	17.092	278	33922	5.147	ng	# 92
92) Benzo(g,h,i)perylene	17.556	276	122219m	17.982	ng	

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

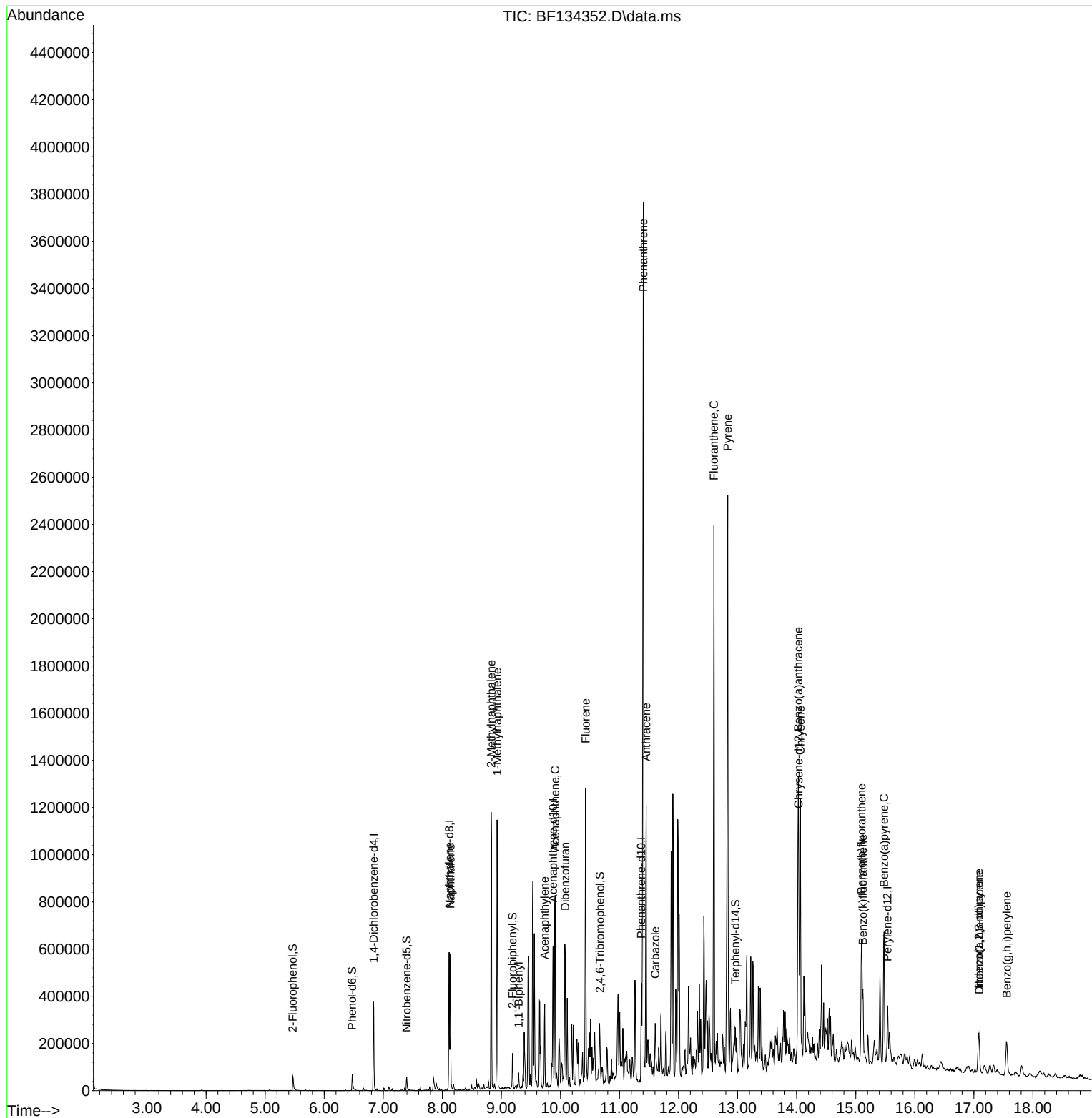
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071823\
Data File : BF134352.D
Acq On : 18 Jul 2023 23:02
Operator : CG\JU
Sample : 03600-01DL 10X
Misc :
ALS Vial : 19 Sample Multiplier: 1

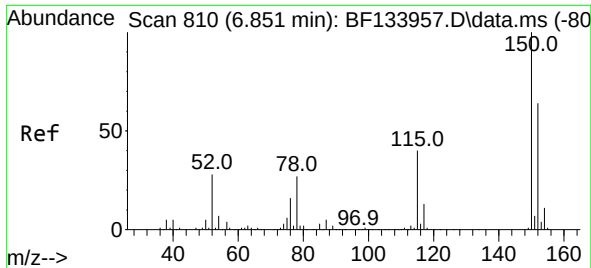
Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL

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Supervised By :mohammad ahmed 07/19/2023

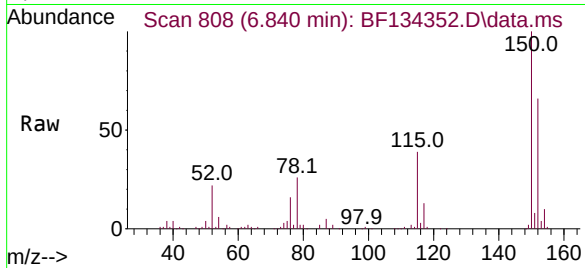
Quant Time: Jul 19 01:43:19 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 80
Delta R.T. -0.005 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

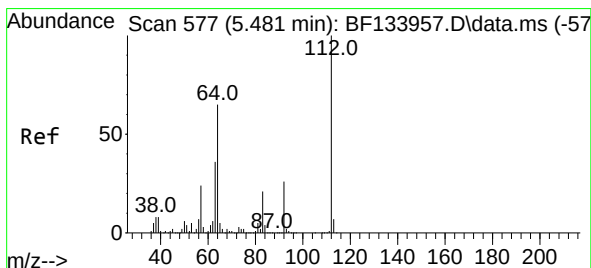
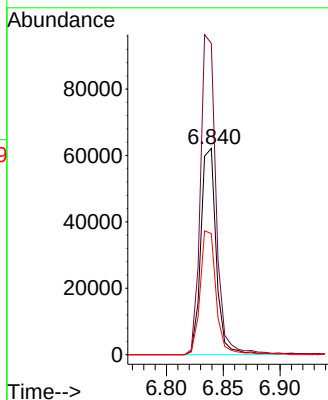
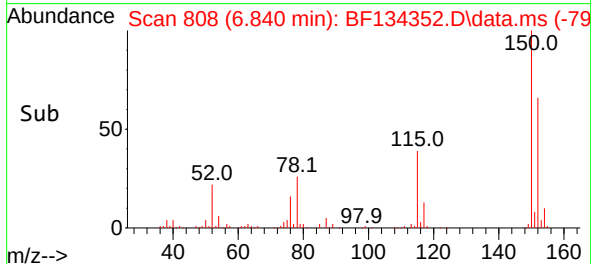
Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL



Tgt Ion:152 Resp: 5901
Ion Ratio Lower Upper
152 100
150 151.0 124.5 186.7
115 58.7 50.2 75.2

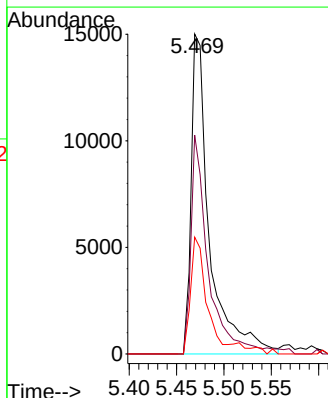
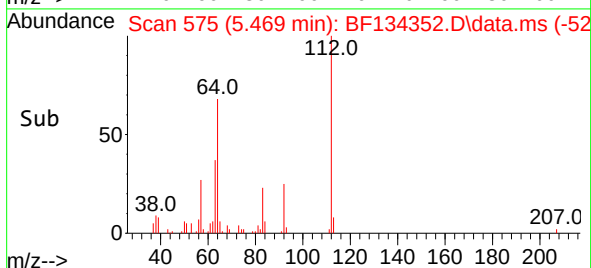
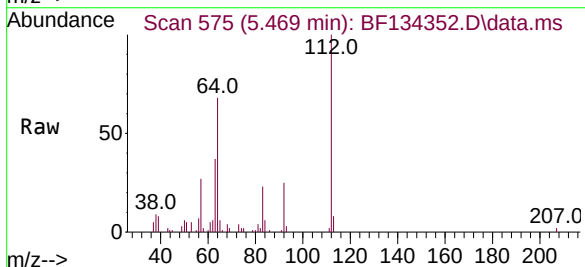
Manual Integrations
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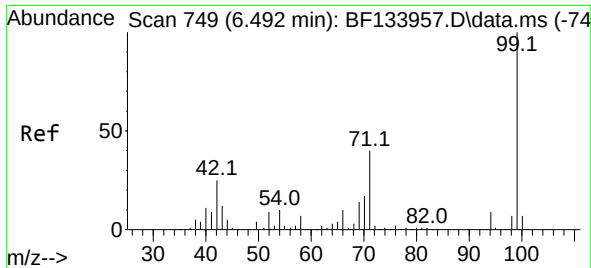
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#5
2-Fluorophenol
Concen: 5.765 ng
RT: 5.469 min Scan# 575
Delta R.T. 0.000 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

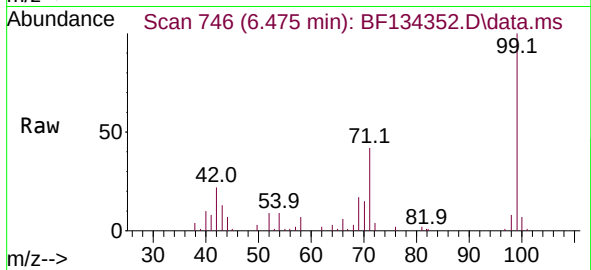
Tgt Ion:112 Resp: 20336
Ion Ratio Lower Upper
112 100
64 68.4 52.1 78.1
63 36.5 28.6 42.8





#7
Phenol-d6
Concen: 6.140 ng
RT: 6.475 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

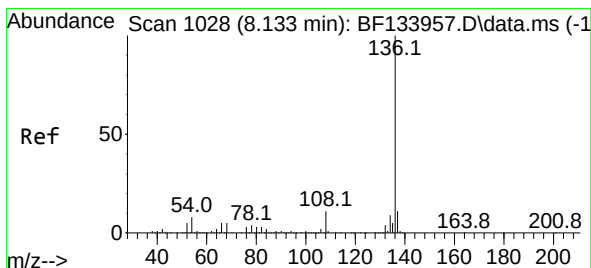
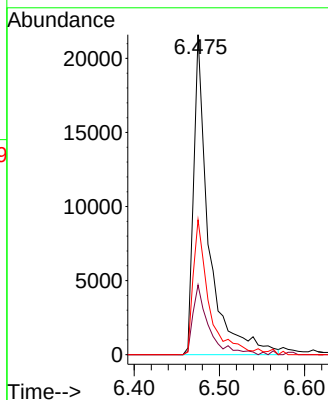
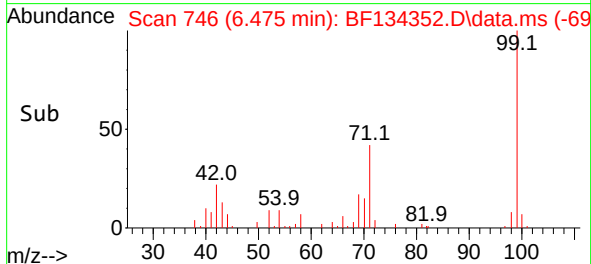
Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL



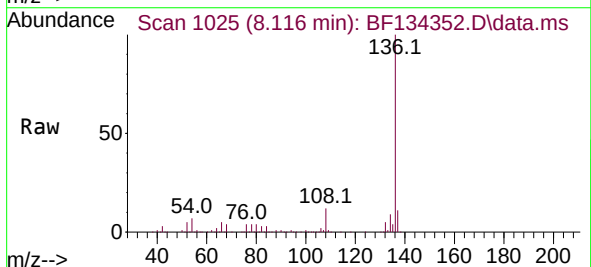
Tgt Ion: 99 Resp: 26640
Ion Ratio Lower Upper
99 100
42 21.8 19.8 29.6
71 42.2 31.9 47.9

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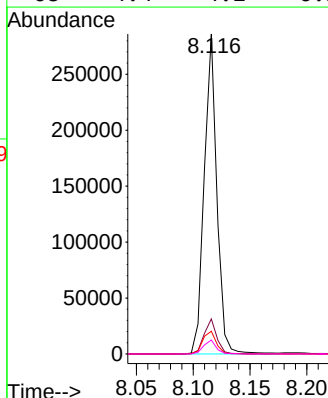
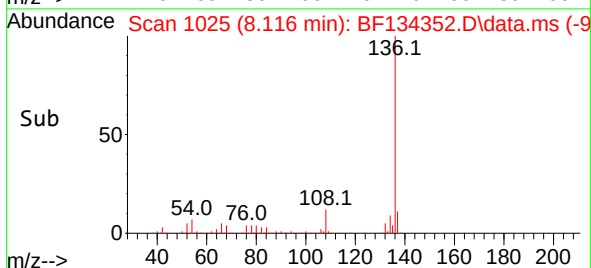
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023

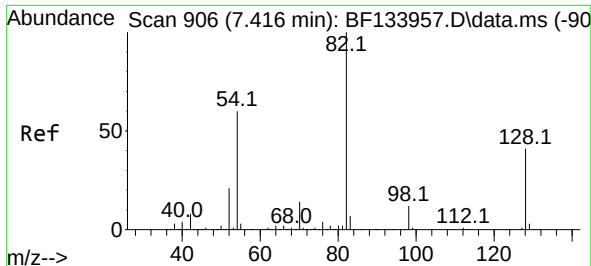


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02



Tgt Ion:136 Resp: 221118
Ion Ratio Lower Upper
136 100
137 11.0 8.6 12.8
54 7.1 6.5 9.7
68 4.4 4.2 6.2





#23

Nitrobenzene-d5

Concen: 4.357 ng

RT: 7.398 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

Tgt Ion: 82 Resp: 1787

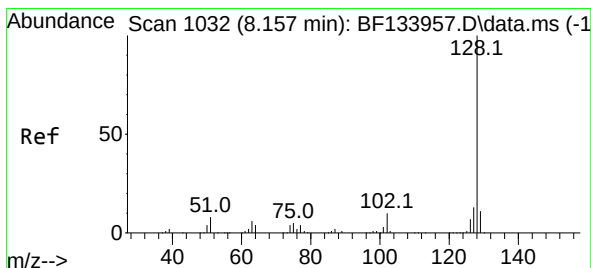
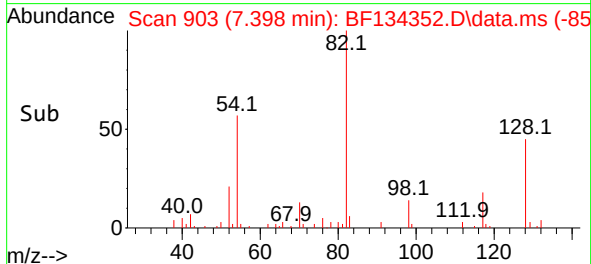
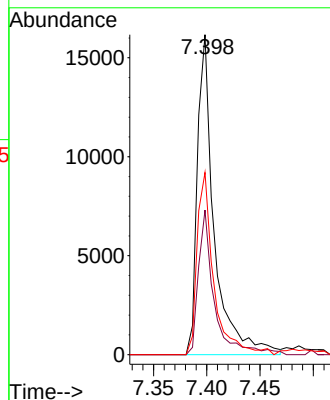
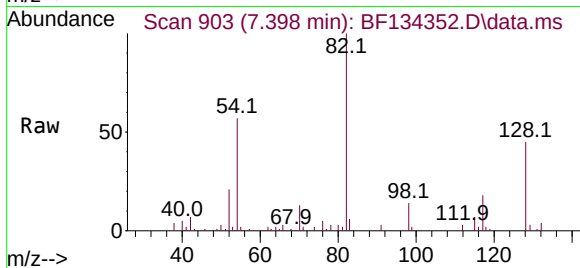
Ion	Ratio	Lower	Upper
82	100		
128	45.2	32.5	48.7
54	57.0	48.2	72.2

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Supervised By :mohammad ahmed 07/19/2023



#31

Naphthalene

Concen: 22.539 ng

RT: 8.139 min Scan# 1029

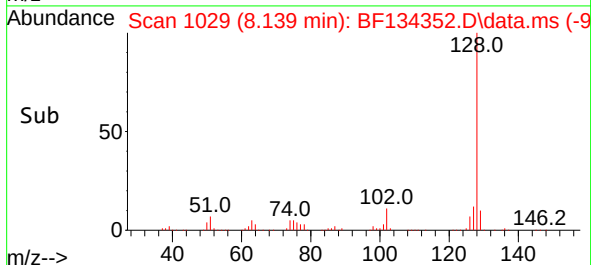
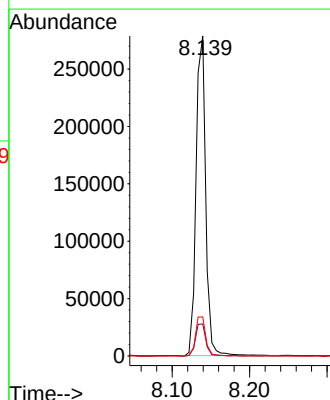
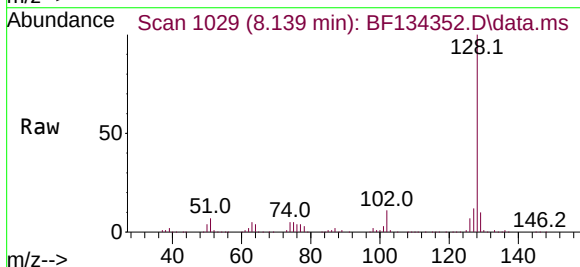
Delta R.T. -0.006 min

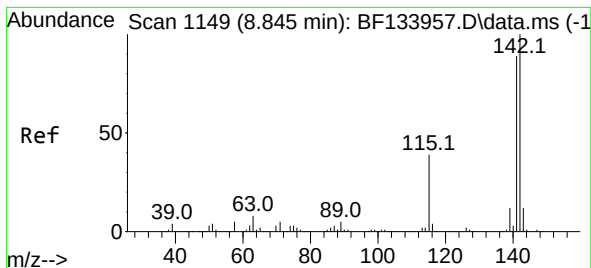
Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Tgt Ion:128 Resp: 240727

Ion	Ratio	Lower	Upper
128	100		
129	10.0	8.7	13.1
127	12.2	10.6	15.8





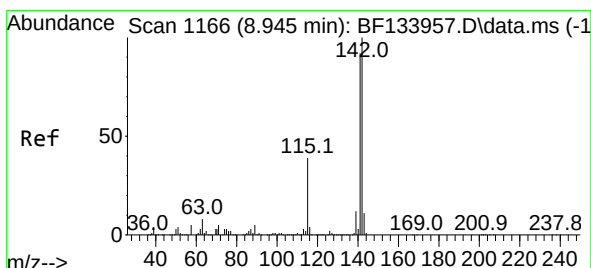
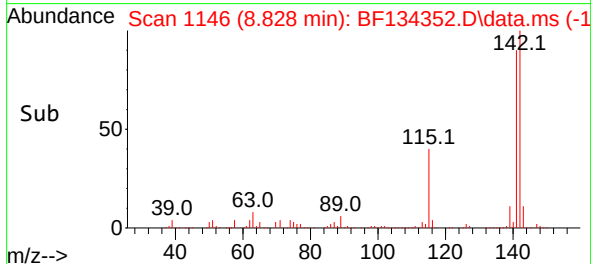
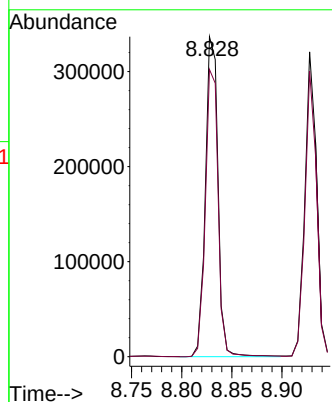
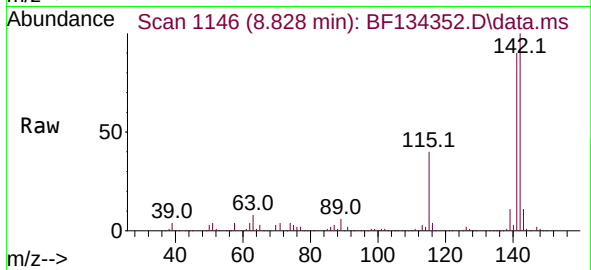
#37
2-Methylnaphthalene
Concen: 39.240 ng
RT: 8.828 min Scan# 1149
Delta R.T. -0.012 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL

Tgt Ion:142 Resp: 296375
Ion Ratio Lower Upper
142 100
141 89.8 71.0 106.4

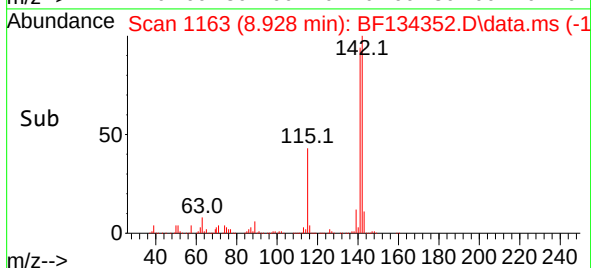
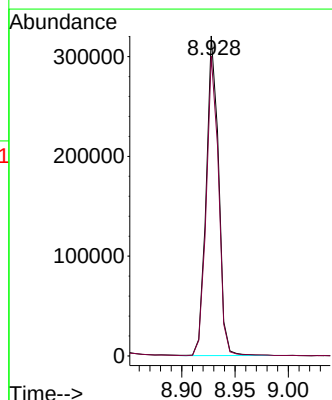
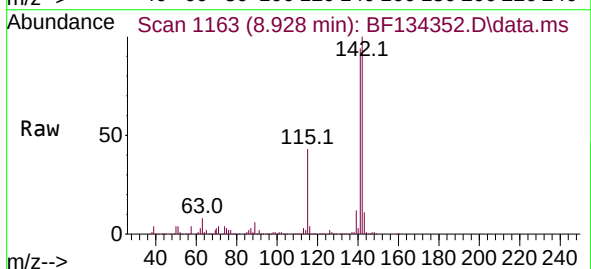
Manual Integrations
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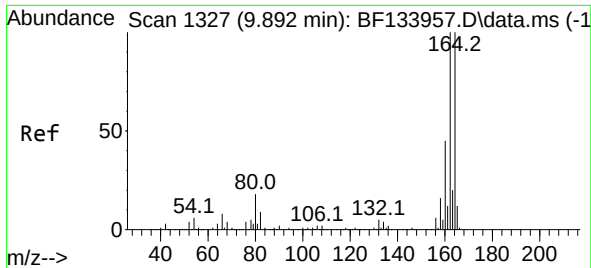
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#38
1-Methylnaphthalene
Concen: 37.009 ng
RT: 8.928 min Scan# 1163
Delta R.T. -0.012 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Tgt Ion:142 Resp: 259862
Ion Ratio Lower Upper
142 100
141 93.7 73.5 110.3





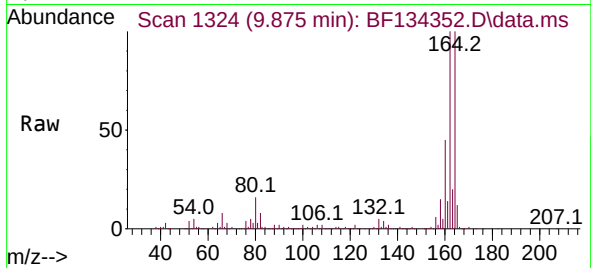
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL



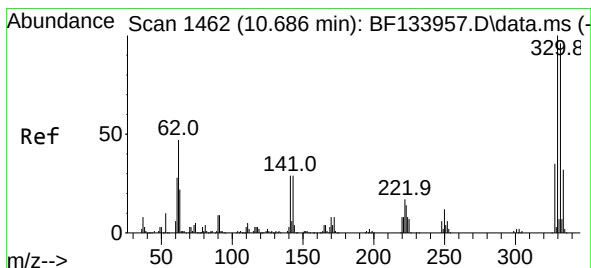
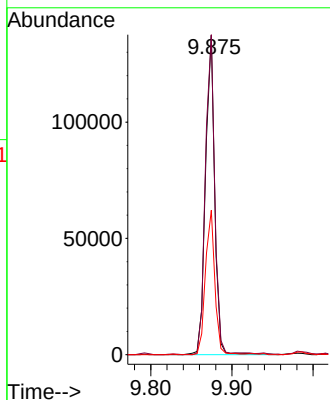
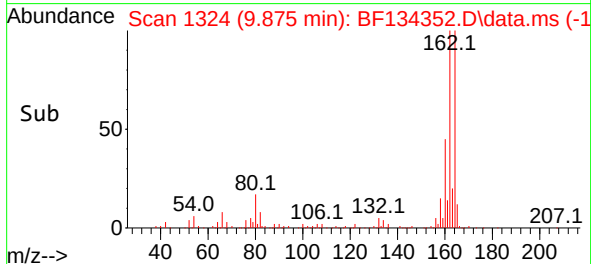
Tgt Ion:164 Resp: 107500
Ion Ratio Lower Upper
164 100
162 100.1 80.0 120.0
160 45.2 35.9 53.9

Manual Integrations

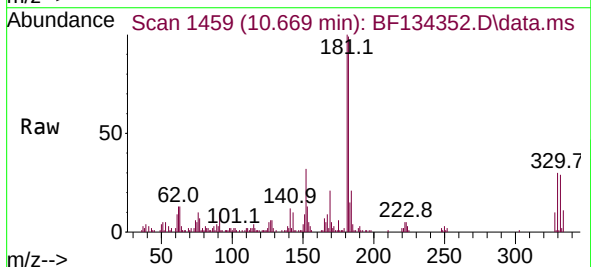
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Reviewed By :Yogesh Patel 07/19/2023

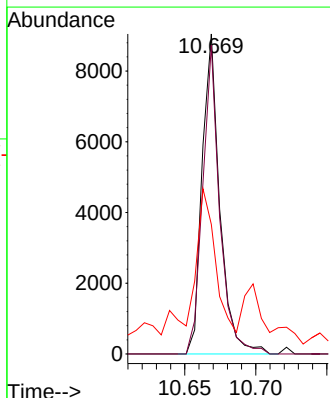
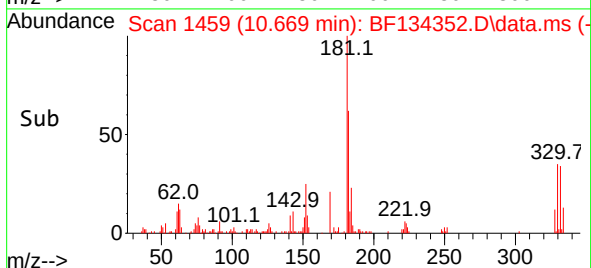
Supervised By :mohammad ahmed 07/19/2023

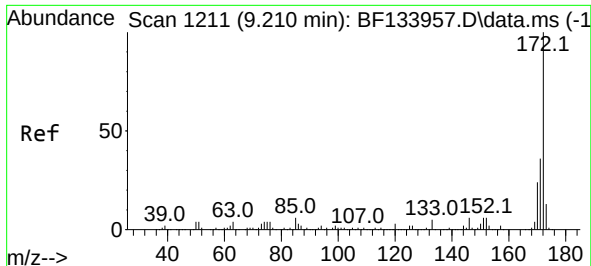


#42
2,4,6-Tribromophenol
Concen: 5.833 ng
RT: 10.669 min Scan# 1459
Delta R.T. -0.012 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02



Tgt Ion:330 Resp: 7862
Ion Ratio Lower Upper
330 100
332 93.4 77.0 115.6
141 61.9 26.3 39.5#





#45

2-Fluorobiphenyl

Concen: 5.312 ng

RT: 9.186 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

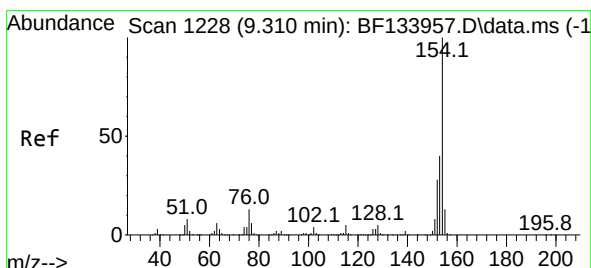
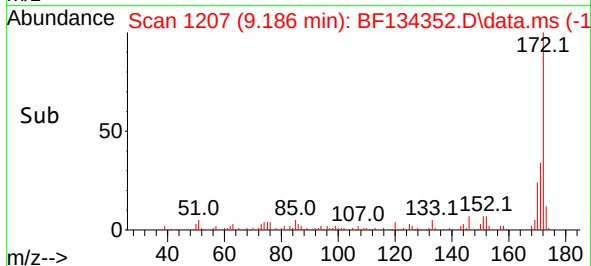
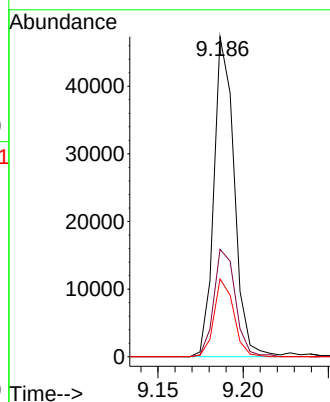
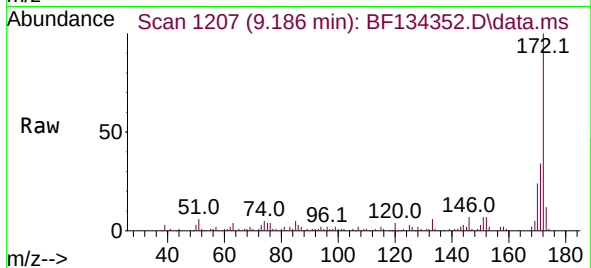
Tgt Ion:172 Resp: 3927
 Ion Ratio Lower Upper
 172 100
 171 33.6 28.6 43.0
 170 24.3 19.4 29.0

Manual Integrations

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Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#46

1,1'-Biphenyl

Concen: 2.002 ng

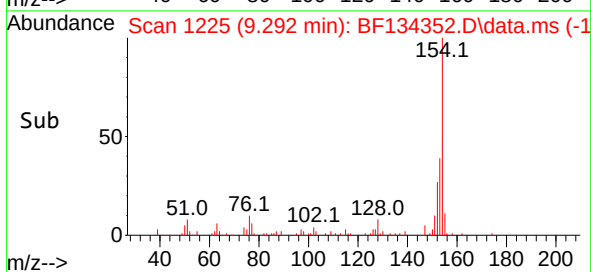
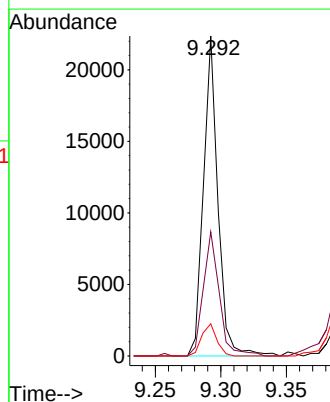
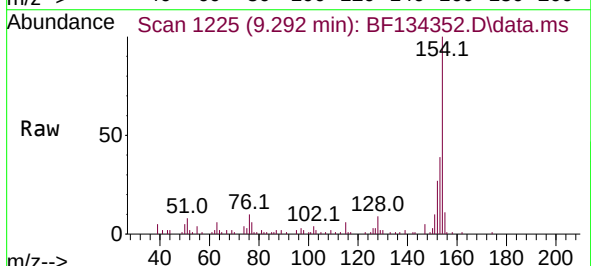
RT: 9.292 min Scan# 1225

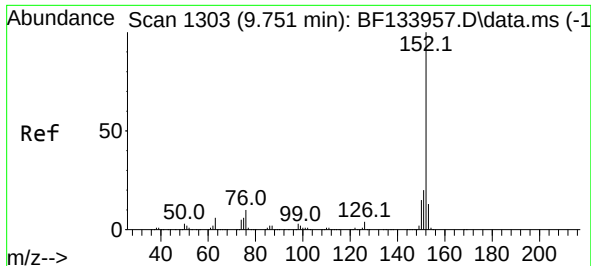
Delta R.T. -0.012 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Tgt Ion:154 Resp: 17263
 Ion Ratio Lower Upper
 154 100
 153 38.8 19.8 59.8
 76 10.0 0.0 32.9





#49

Acenaphthylene

Concen: 3.035 ng

RT: 9.733 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SU-3-071223DL

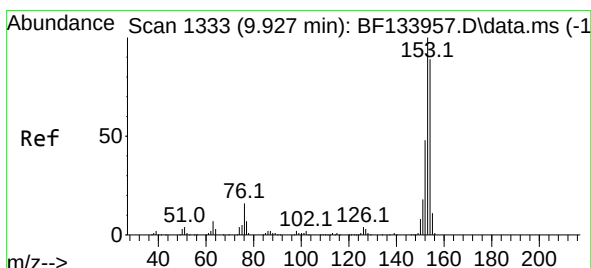
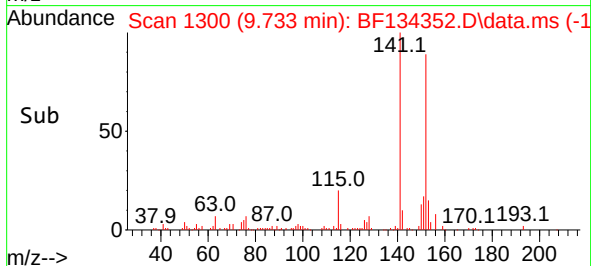
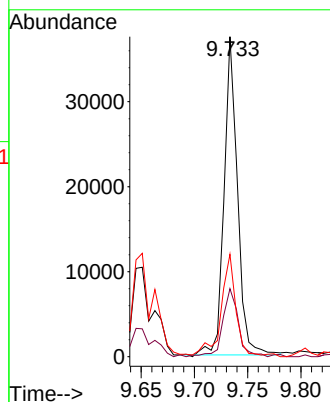
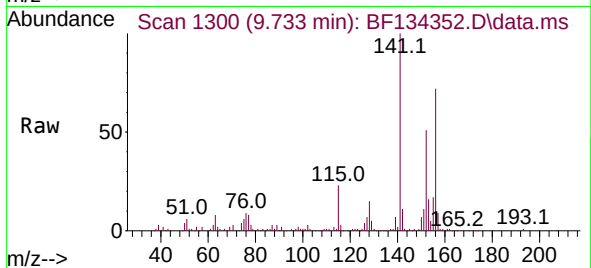
Tgt Ion:152	Resp:	32714
Ion Ratio	Lower	Upper
152	100	
151	21.3	16.2 24.2
153	32.0	10.8 16.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#52

Acenaphthene

Concen: 26.482 ng

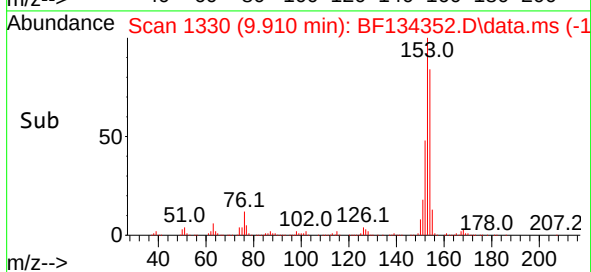
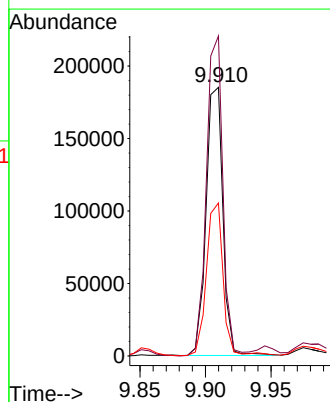
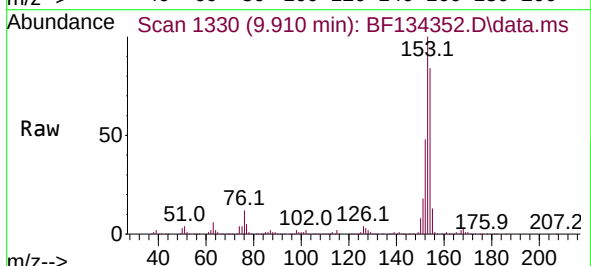
RT: 9.910 min Scan# 1330

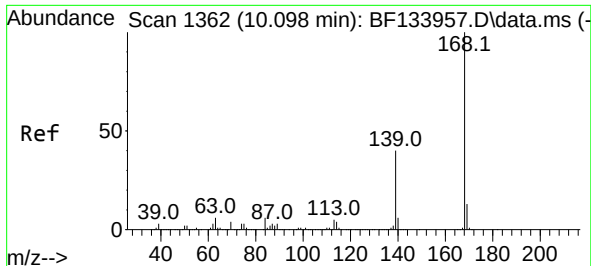
Delta R.T. -0.006 min

Lab File: BF134352.D

Acq: 18 Jul 2023 23:02

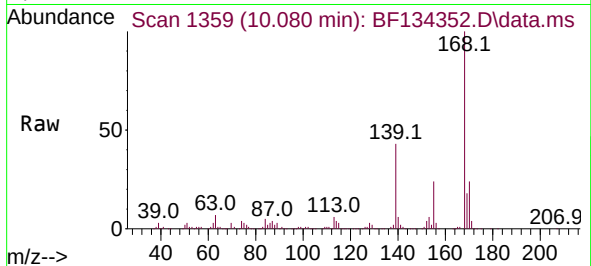
Tgt Ion:154	Resp:	165619
Ion Ratio	Lower	Upper
154	100	
153	119.1	89.4 134.2
152	56.9	42.8 64.2





#55
Dibenzenofuran
Concen: 14.292 ng
RT: 10.080 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

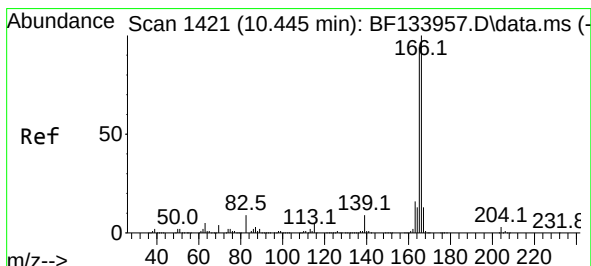
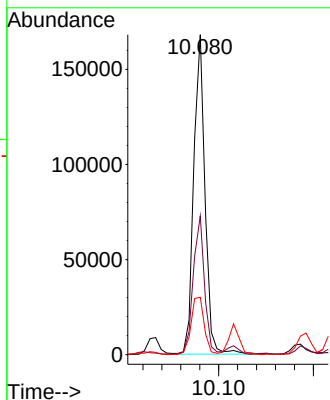
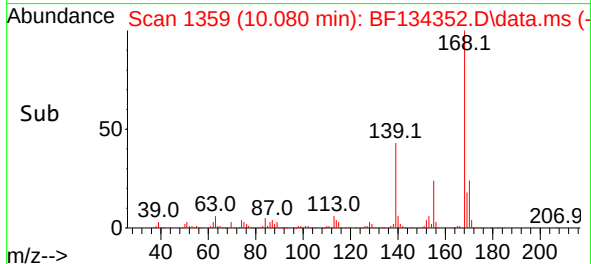
Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL



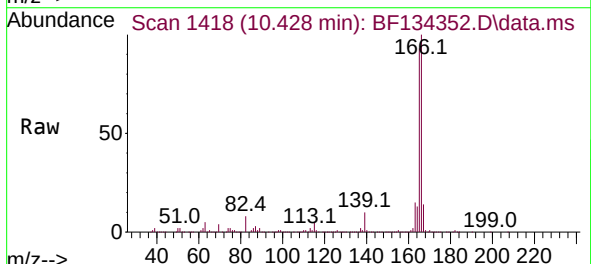
Tgt Ion:168 Resp: 139680
Ion Ratio Lower Upper
168 100
139 43.3 32.0 48.0
169 18.0 10.6 16.0

Manual Integrations
APPROVED

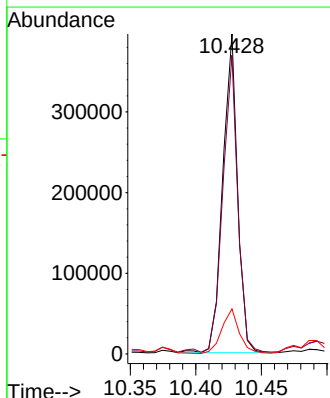
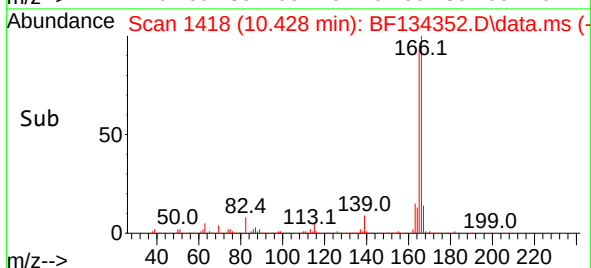
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023

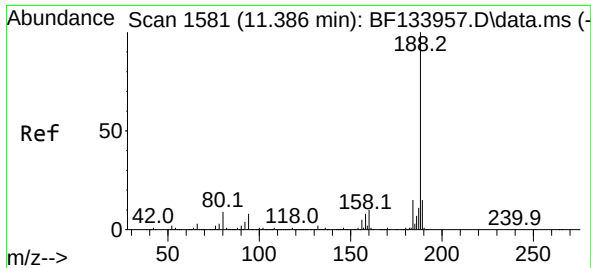


#58
Fluorene
Concen: 40.669 ng
RT: 10.428 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02



Tgt Ion:166 Resp: 309247
Ion Ratio Lower Upper
166 100
165 93.4 75.0 112.4
167 14.1 10.6 15.8





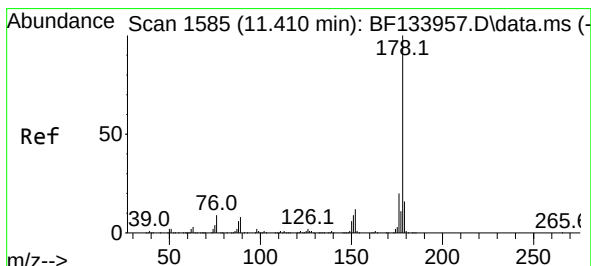
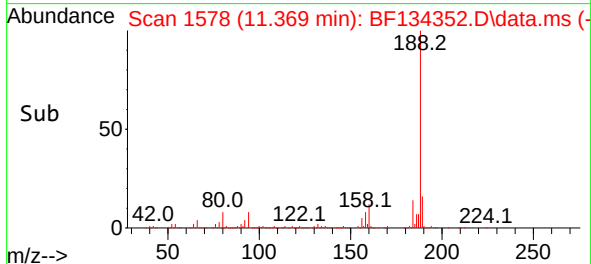
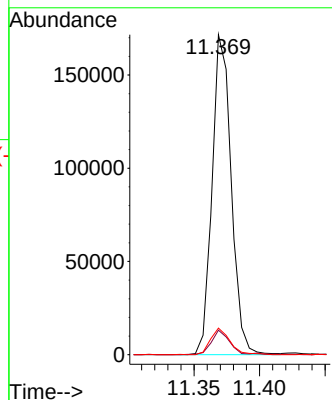
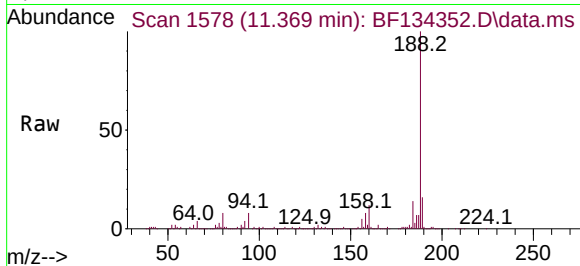
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 11369
Delta R.T. -0.006 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL

Tgt Ion:188 Resp: 174245
Ion Ratio Lower Upper
188 100
94 7.6 6.4 9.6
80 8.3 7.3 10.9

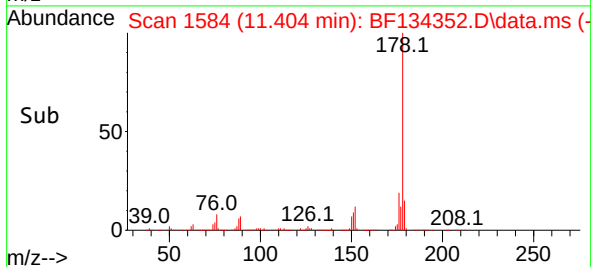
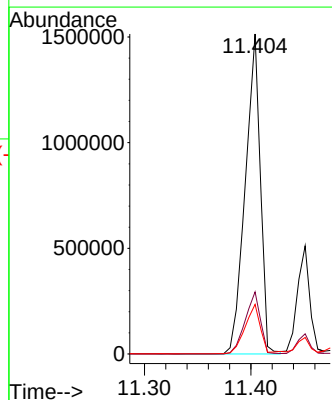
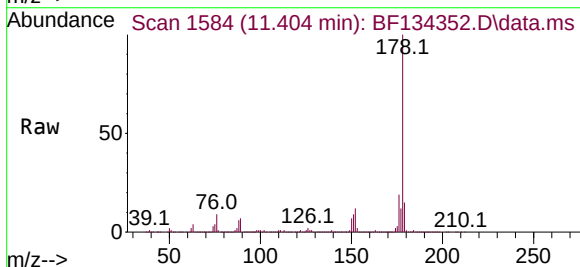
Manual Integrations
APPROVED

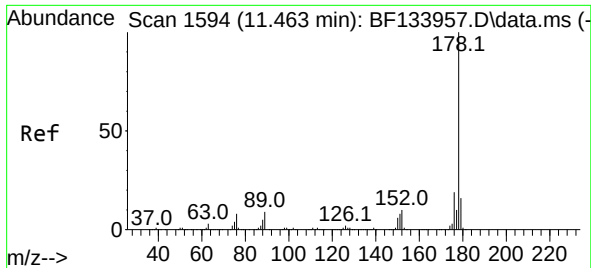
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#71
Phenanthrene
Concen: 169.936 ng
RT: 11.404 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

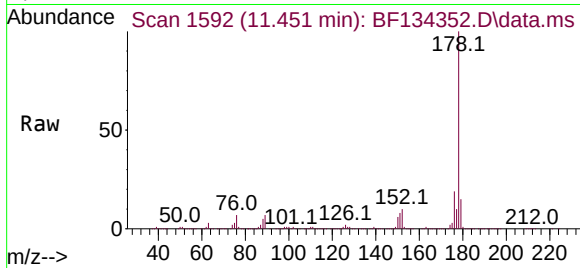
Tgt Ion:178 Resp: 1490639
Ion Ratio Lower Upper
178 100
176 19.4 16.0 24.0
179 15.5 12.4 18.6





#72
 Anthracene
 Concen: 45.852 ng
 RT: 11.451 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF134352.D
 Acq: 18 Jul 2023 23:02

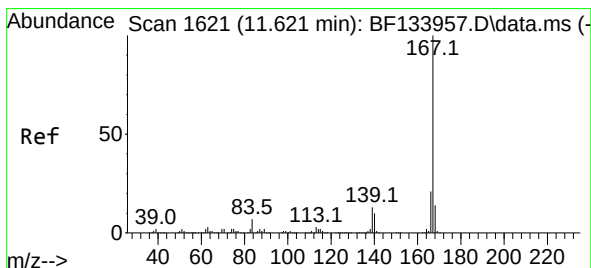
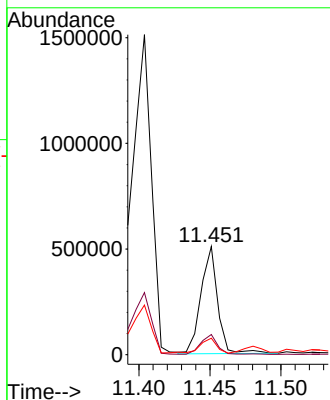
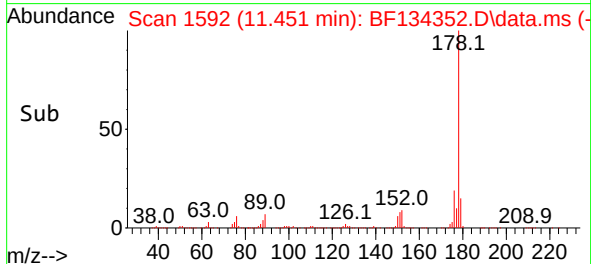
Instrument :
 BNA_F
 ClientSampleId :
 SU-3-071223DL



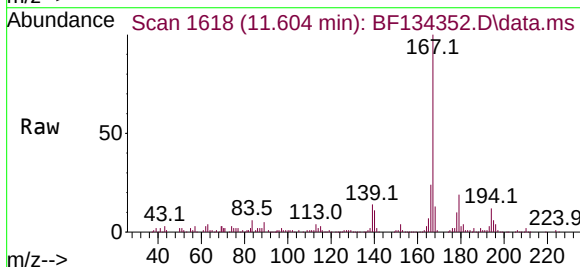
Tgt Ion:178 Resp: 418339
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.3 22.9
 179 15.2 12.4 18.6

Manual Integrations
 APPROVED

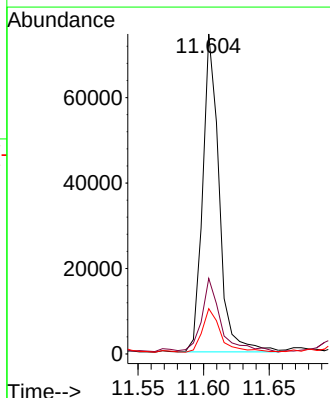
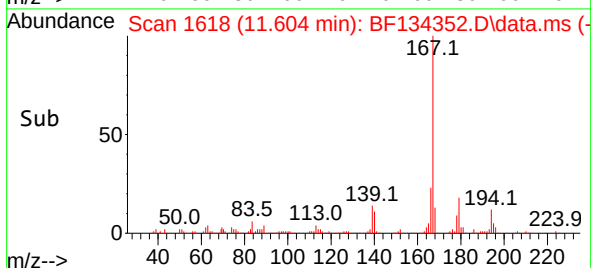
Reviewed By :Yogesh Patel 07/19/2023
 Supervised By :mohammad ahmed 07/19/2023

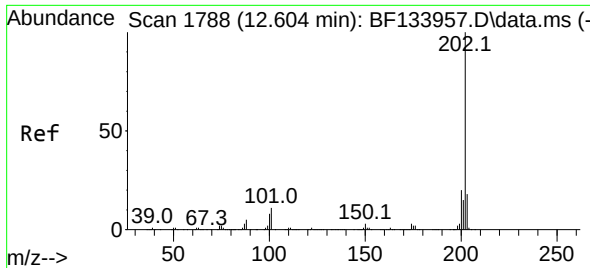


#73
 Carbazole
 Concen: 7.815 ng
 RT: 11.604 min Scan# 1618
 Delta R.T. -0.012 min
 Lab File: BF134352.D
 Acq: 18 Jul 2023 23:02



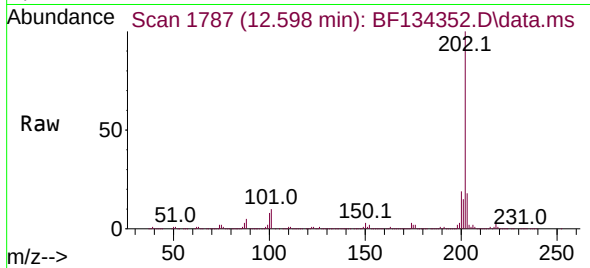
Tgt Ion:167 Resp: 65266
 Ion Ratio Lower Upper
 167 100
 166 23.6 17.0 25.6
 139 14.1 10.4 15.6





#75
Fluoranthene
Concen: 98.156 ng
RT: 12.598 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

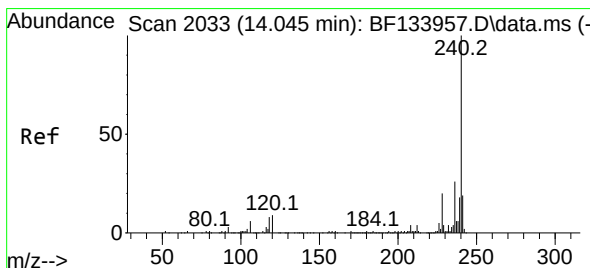
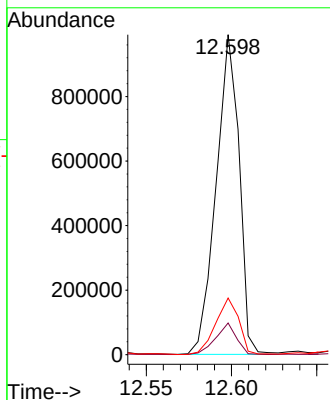
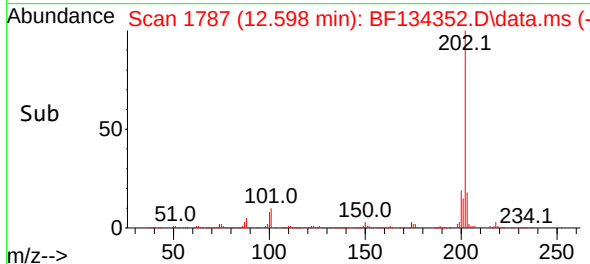
Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL



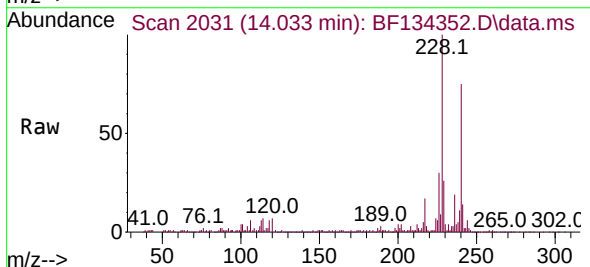
Tgt Ion:202 Resp: 930823
Ion Ratio Lower Upper
202 100
101 9.9 0.0 31.0
203 17.7 0.0 37.6

Manual Integrations
APPROVED

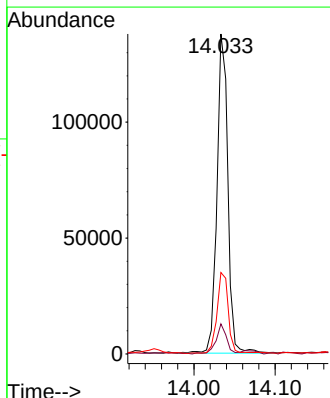
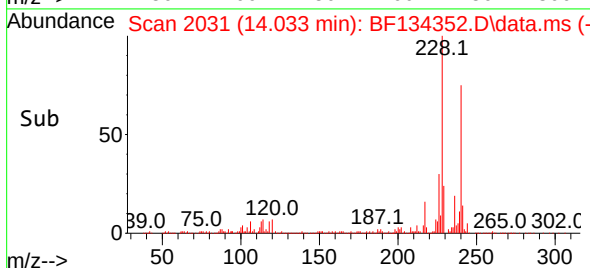
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023

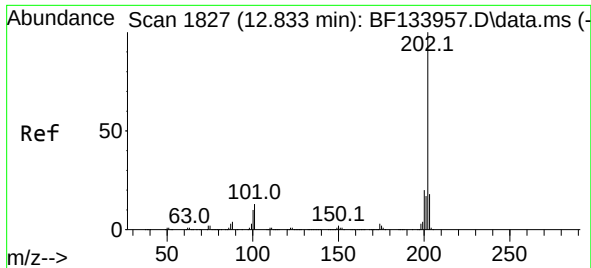


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02



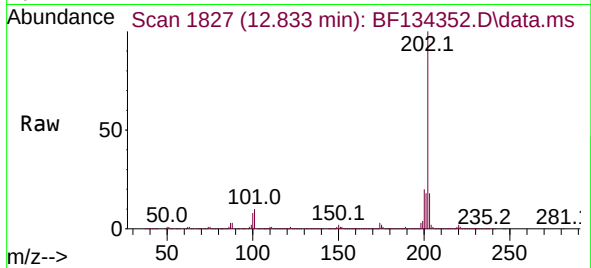
Tgt Ion:240 Resp: 128253
Ion Ratio Lower Upper
240 100
120 9.4 7.4 11.0
236 25.5 21.0 31.6





#78
Pyrene
Concen: 90.034 ng
RT: 12.833 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

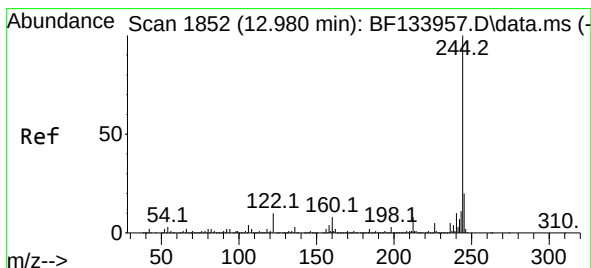
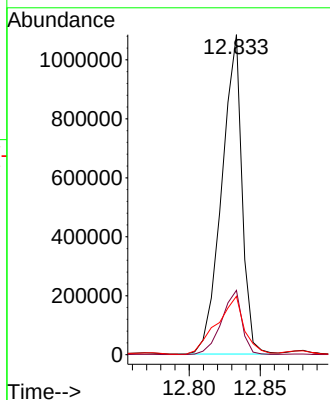
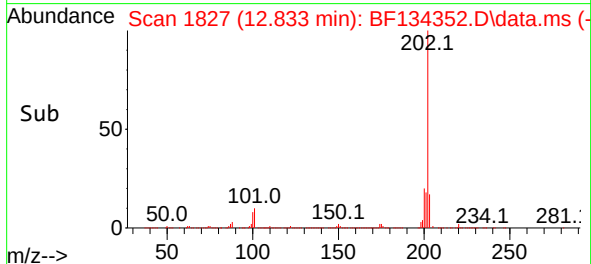
Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL



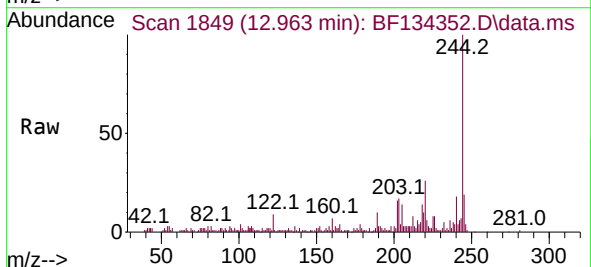
Tgt Ion:202 Resp: 107462
Ion Ratio Lower Upper
202 100
200 20.1 16.1 24.1
203 18.3 14.3 21.5

Manual Integrations
APPROVED

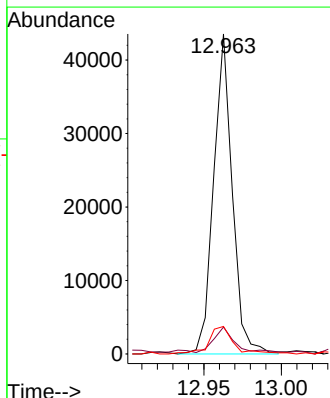
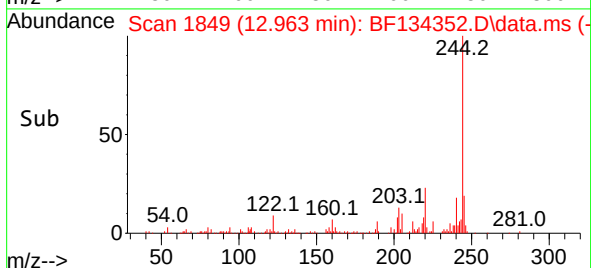
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023

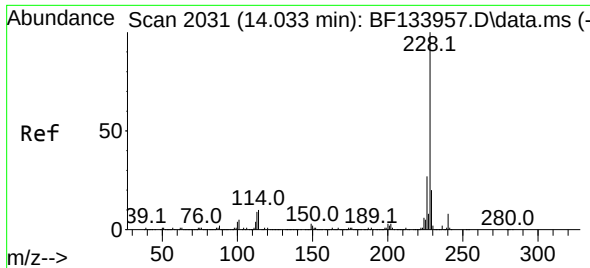


#79
Terphenyl-d14
Concen: 4.578 ng
RT: 12.963 min Scan# 1849
Delta R.T. -0.012 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02



Tgt Ion:244 Resp: 36480
Ion Ratio Lower Upper
244 100
212 8.4 6.0 9.0
122 8.6 8.3 12.5





#81
Benzo(a)anthracene
Concen: 50.475 ng
RT: 14.027 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

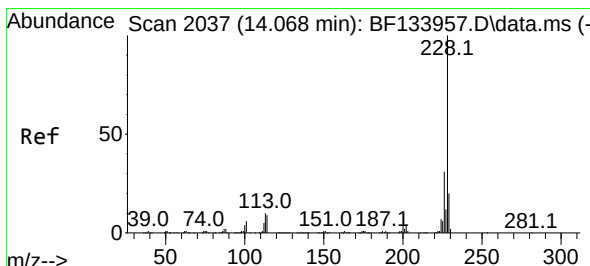
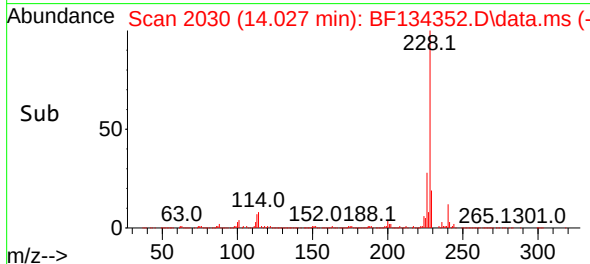
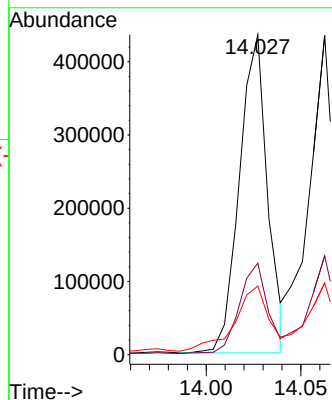
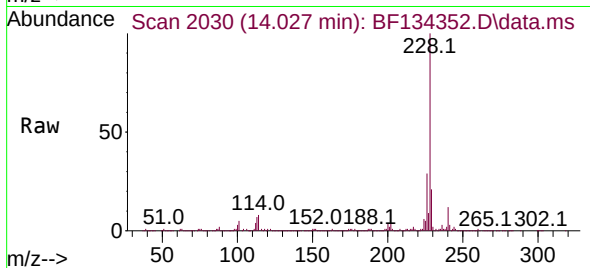
ClientSampleId :

SU-3-071223DL

Tgt Ion:228 Resp: 448950
Ion Ratio Lower Upper
228 100
226 28.6 22.0 33.0
229 21.4 16.3 24.5

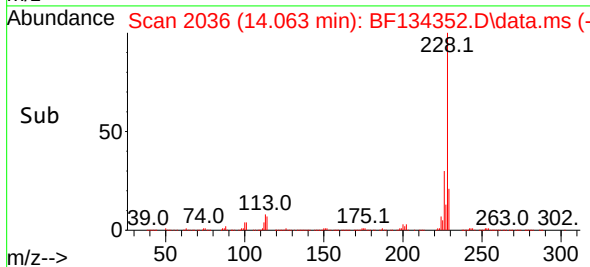
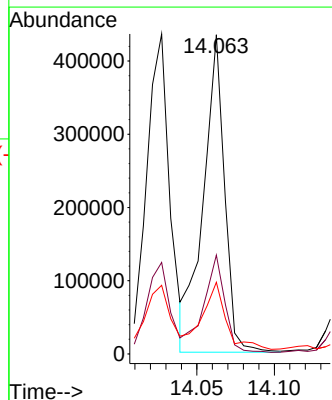
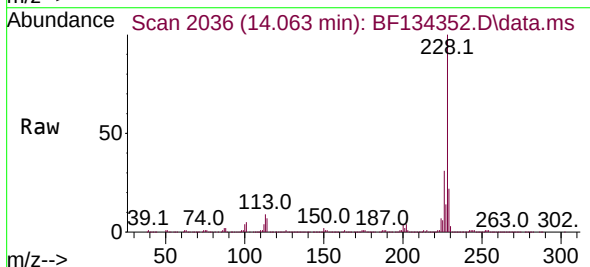
Manual Integrations
APPROVED

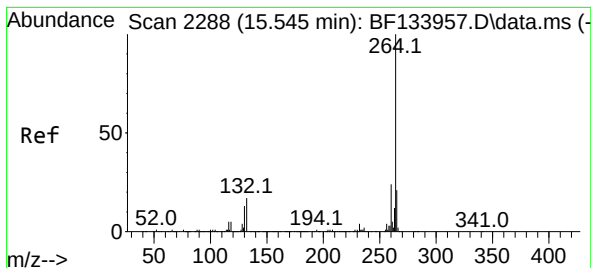
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#83
Chrysene
Concen: 48.169 ng
RT: 14.063 min Scan# 2036
Delta R.T. -0.006 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Tgt Ion:228 Resp: 414978
Ion Ratio Lower Upper
228 100
226 31.0 24.4 36.6
229 22.4 16.1 24.1





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

Instrument :

BNA_F

ClientSampleId :

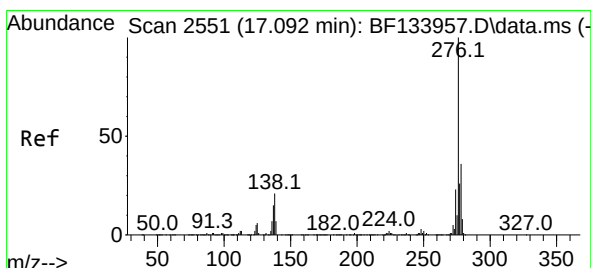
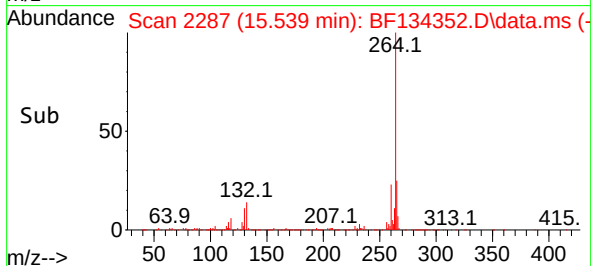
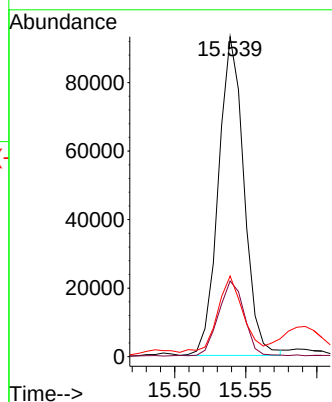
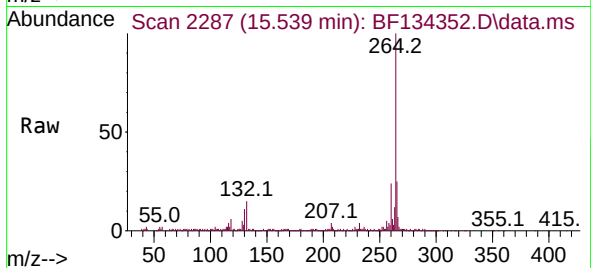
SU-3-071223DL

Tgt Ion:264 Resp: 11629
Ion Ratio Lower Upper
264 100
260 23.6 19.5 29.3
265 25.2 16.6 25.0

Manual Integrations

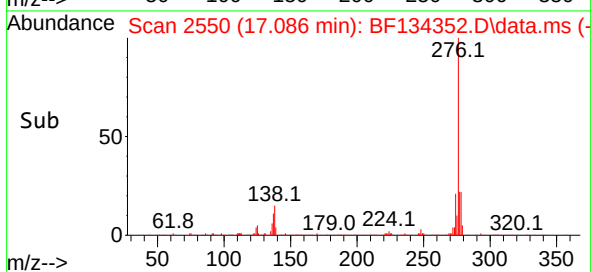
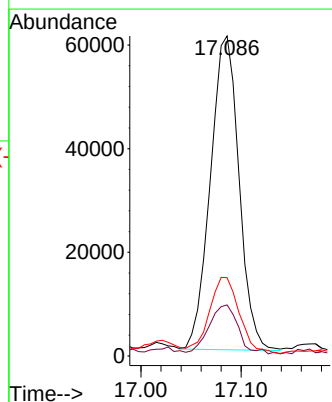
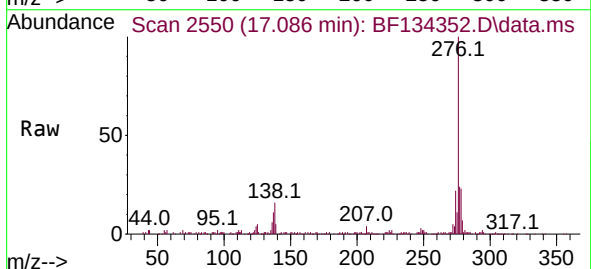
APPROVED

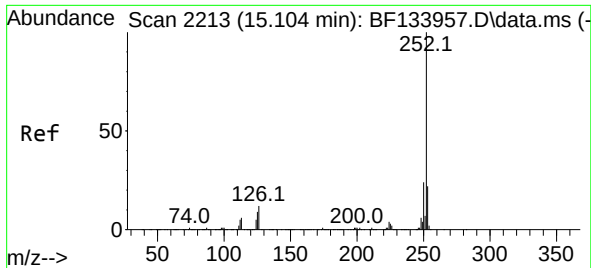
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 14.862 ng
RT: 17.086 min Scan# 2550
Delta R.T. -0.012 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

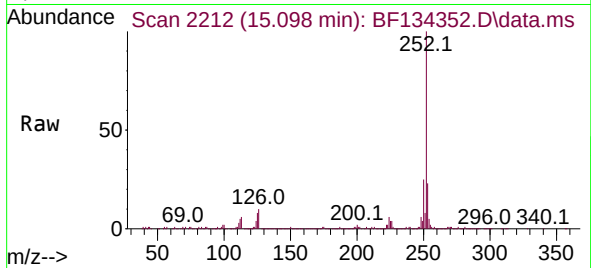
Tgt Ion:276 Resp: 119928
Ion Ratio Lower Upper
276 100
138 15.9 18.7 28.1#
277 25.5 19.9 29.9





#88
Benzo(b)fluoranthene
Concen: 49.439 ng m
RT: 15.098 min Scan# 2116
Delta R.T. -0.006 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

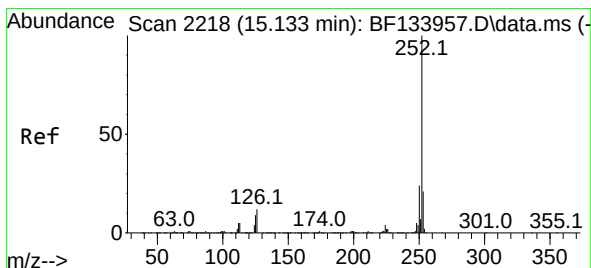
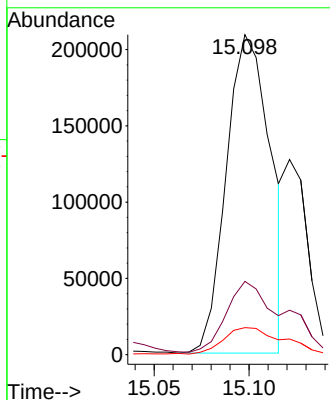
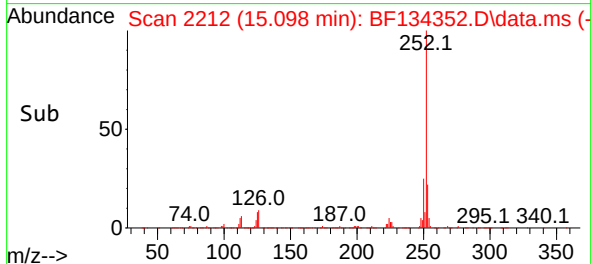
Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL



Tgt Ion:252 Resp: 33806
Ion Ratio Lower Upper
252 100
253 22.9 17.4 26.0
125 8.5 7.1 10.7

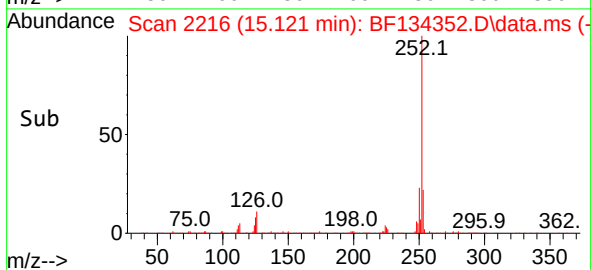
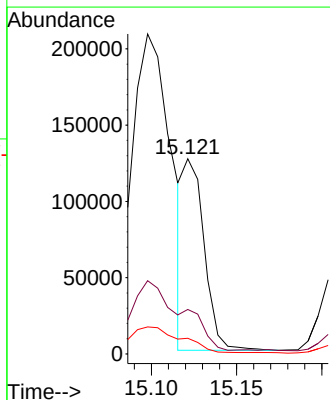
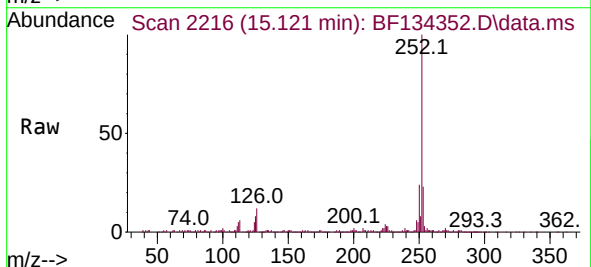
Manual Integrations
APPROVED

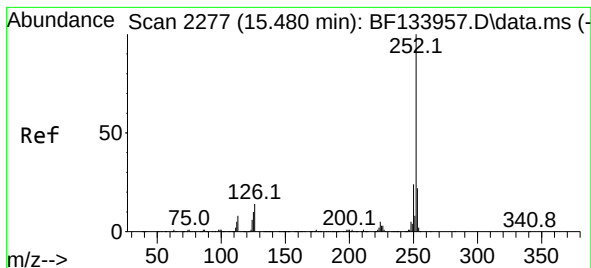
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#89
Benzo(k)fluoranthene
Concen: 15.244 ng m
RT: 15.121 min Scan# 2216
Delta R.T. -0.012 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

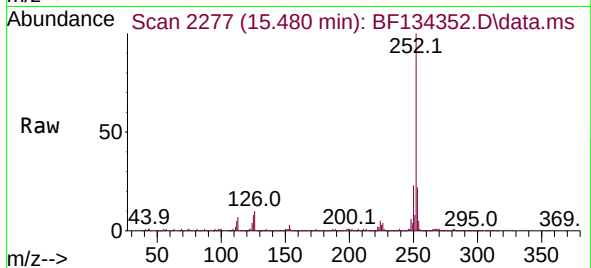
Tgt Ion:252 Resp: 106132
Ion Ratio Lower Upper
252 100
253 22.8 16.9 25.3
125 8.1 7.4 11.2





#90
Benzo(a)pyrene
Concen: 42.977 ng m
RT: 15.480 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

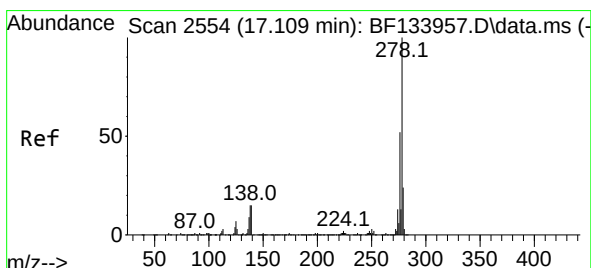
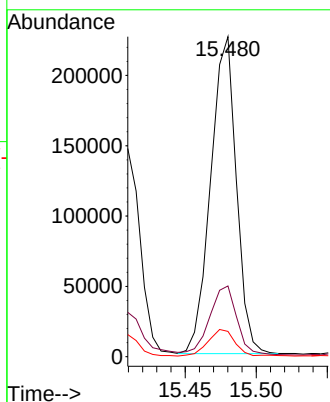
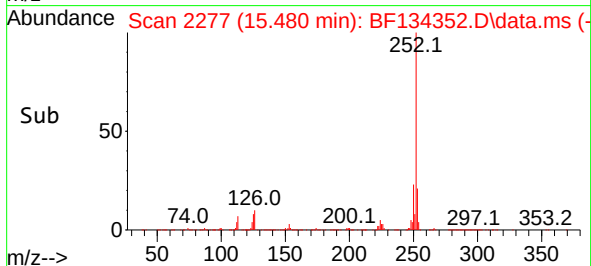
Instrument :
BNA_F
ClientSampleId :
SU-3-071223DL



Tgt Ion:252 Resp: 284170
Ion Ratio Lower Upper
252 100
253 22.1 17.4 26.0
125 7.9 8.4 12.6

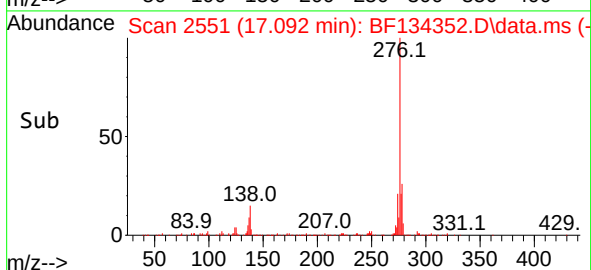
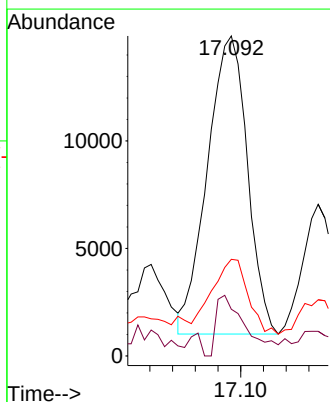
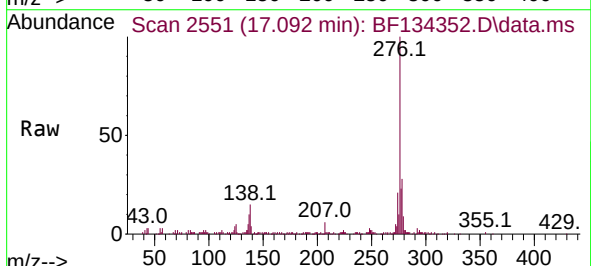
Manual Integrations
APPROVED

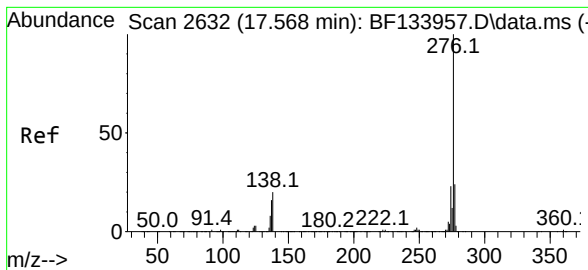
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#91
Dibenzo(a,h)anthracene
Concen: 5.147 ng
RT: 17.092 min Scan# 2551
Delta R.T. -0.018 min
Lab File: BF134352.D
Acq: 18 Jul 2023 23:02

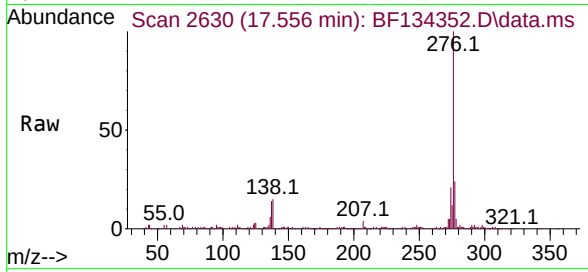
Tgt Ion:278 Resp: 33922
Ion Ratio Lower Upper
278 100
139 14.6 12.2 18.4
279 30.2 19.4 29.2#





#92
 Benzo(g,h,i)perylene
 Concen: 17.982 ng m
 RT: 17.556 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: BF134352.D
 Acq: 18 Jul 2023 23:02

Instrument :
 BNA_F
 ClientSampleId :
 SU-3-071223DL



Tgt Ion: 276 Resp: 122219

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.0	28.6
138	14.8	16.2	24.2

Manual Integrations
 APPROVED

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

