

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082823\
 Data File : BF134971.D
 Acq On : 28 Aug 2023 16:32
 Operator : CG\JU
 Sample : 04147-04DL 100X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-04(21.5-23)DL

Quant Time: Aug 29 03:49:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 28 02:45:19 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/29/2023
 Supervised By :mohammad ahmed 08/29/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.786	152	94242	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	376667	20.000	ng	0.00
39) Acenaphthene-d10	9.827	164	179669	20.000	ng	0.00
64) Phenanthrene-d10	11.321	188	299143	20.000	ng	0.00
76) Chrysene-d12	13.974	240	215297	20.000	ng	0.00
86) Perylene-d12	15.451	264	173079	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	4663	0.789	ng	-0.01
7) Phenol-d6	6.422	99	6388	0.846	ng	-0.02
23) Nitrobenzene-d5	7.351	82	3961	0.579	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	1708	0.807	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	8214	0.707	ng	-0.01
79) Terphenyl-d14	12.910	244	7858	0.502	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.098	128	2036062	108.255	ng	99
37) 2-Methylnaphthalene	8.780	142	208898	16.655	ng	99
38) 1-Methylnaphthalene	8.880	142	168469	14.364	ng	99
46) 1,1'-Biphenyl	9.245	154	99649	7.025	ng	99
49) Acenaphthylene	9.686	152	366021	22.437	ng	100
52) Acenaphthene	9.857	154	67514	6.569	ng	98
55) Dibenzofuran	10.033	168	253605	16.949	ng	99
58) Fluorene	10.374	166	198881	17.525	ng	98
71) Phenanthrene	11.351	178	1151731	73.473	ng	99
72) Anthracene	11.398	178	657258	40.922	ng	99
73) Carbazole	11.551	167	88901	6.717	ng	97
75) Fluoranthene	12.545	202	854424	57.526	ng	97
78) Pyrene	12.774	202	743499	32.571	ng	99
81) Benzo(a)anthracene	13.968	228	265602m	18.081	ng	
83) Chrysene	14.004	228	361967	24.975	ng	97
87) Indeno(1,2,3-cd)pyrene	16.939	276	79731	6.445	ng	97
88) Benzo(b)fluoranthene	15.021	252	223799m	22.918	ng	
89) Benzo(k)fluoranthene	15.045	252	59658m	6.221	ng	
90) Benzo(a)pyrene	15.386	252	162043	16.623	ng	99
92) Benzo(g,h,i)perylene	17.392	276	77368	7.550	ng	96

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

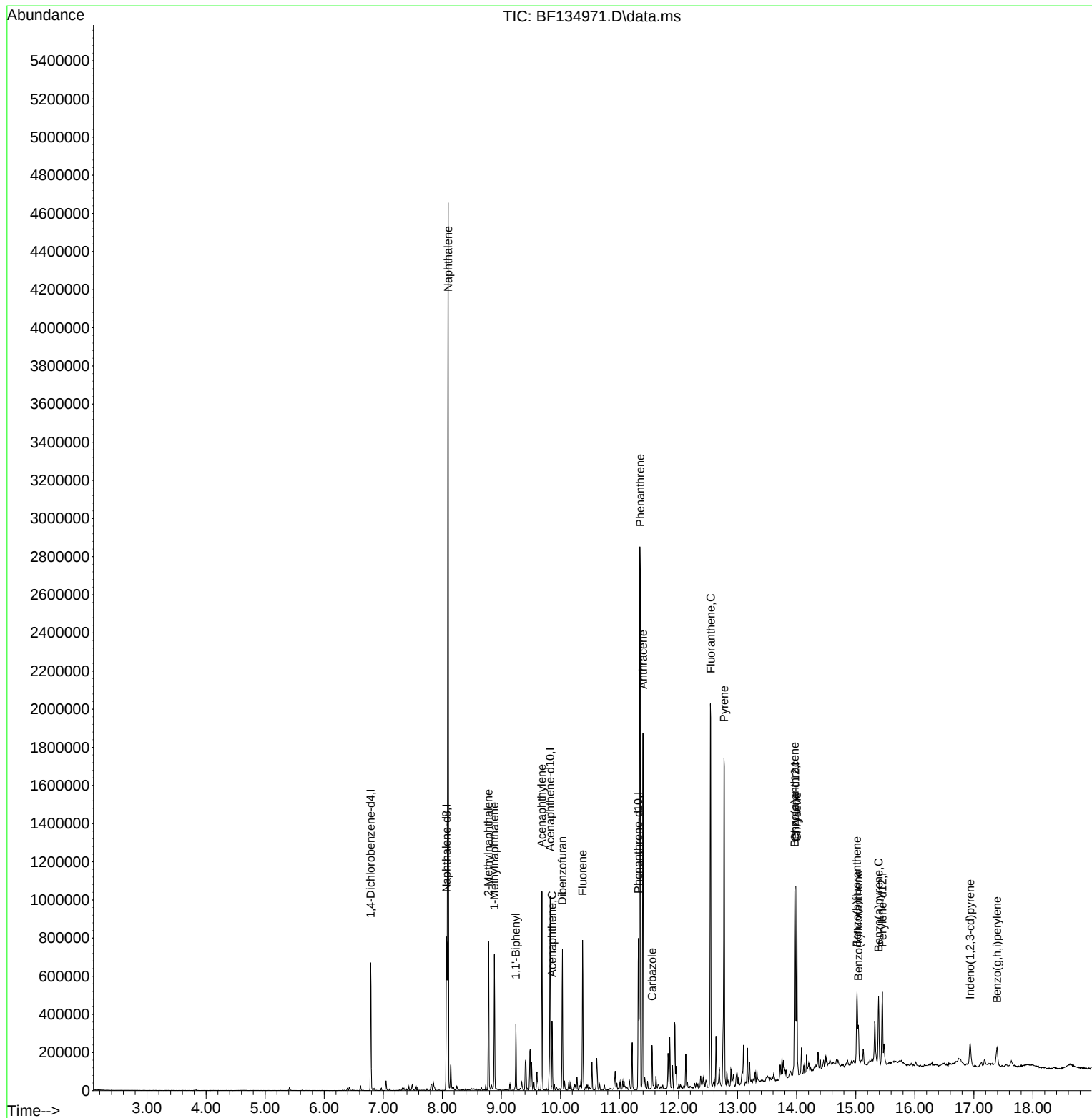
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082823\
Data File : BF134971.D
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ALS Vial : 16 Sample Multiplier: 1

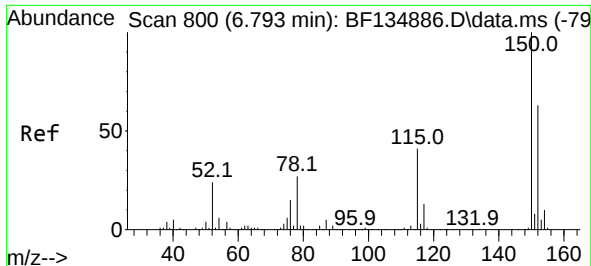
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL

Quant Time: Aug 29 03:49:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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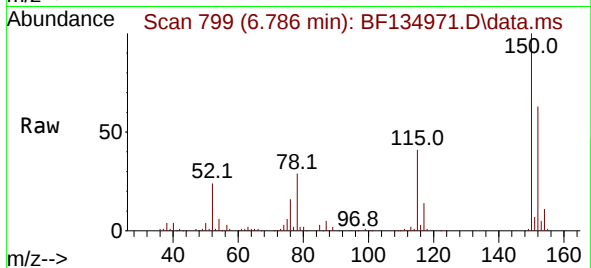
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.786 min Scan# 79
Delta R.T. -0.007 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

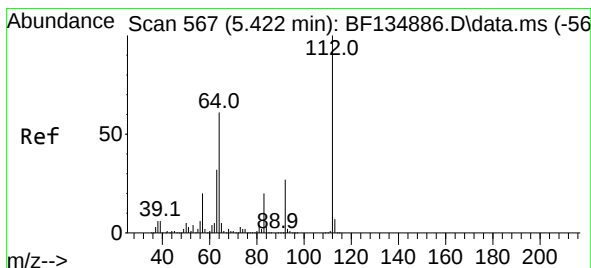
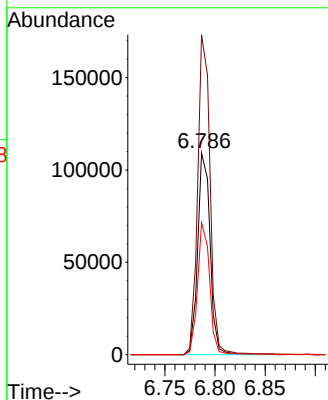
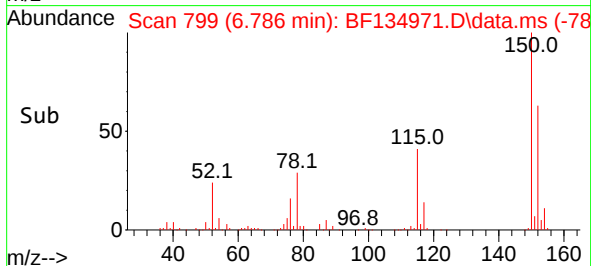
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL



Tgt Ion:152 Resp: 9424
Ion Ratio Lower Upper
152 100
150 158.8 126.1 189.1
115 65.5 51.1 76.7

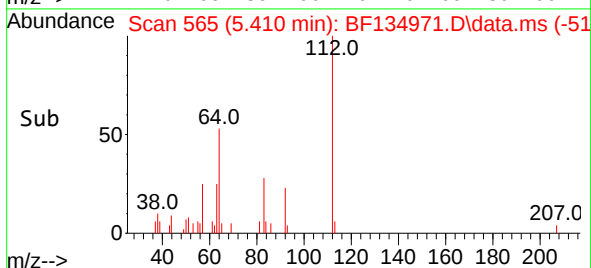
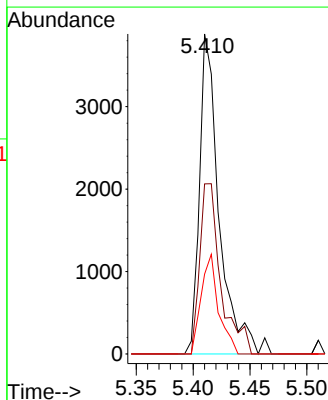
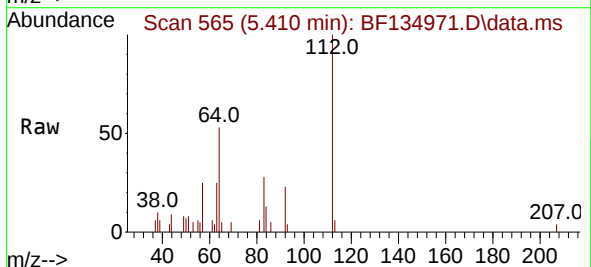
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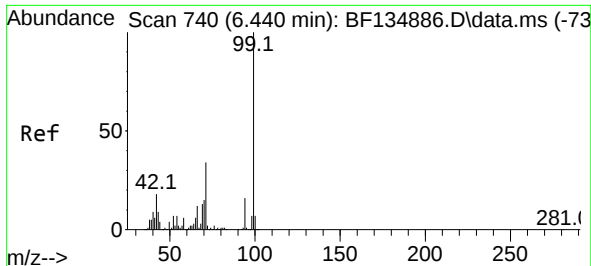
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#5
2-Fluorophenol
Concen: 0.789 ng
RT: 5.410 min Scan# 565
Delta R.T. -0.012 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

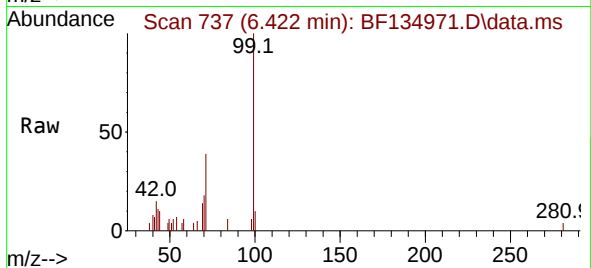
Tgt Ion:112 Resp: 4663
Ion Ratio Lower Upper
112 100
64 53.1 48.6 73.0
63 24.9 25.7 38.5#





#7
Phenol-d6
Concen: 0.846 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

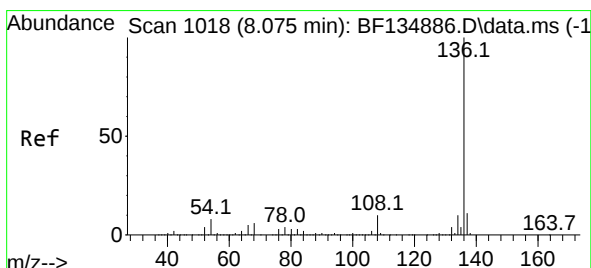
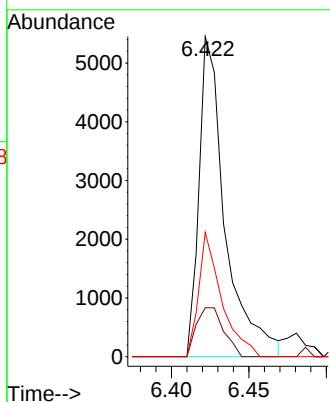
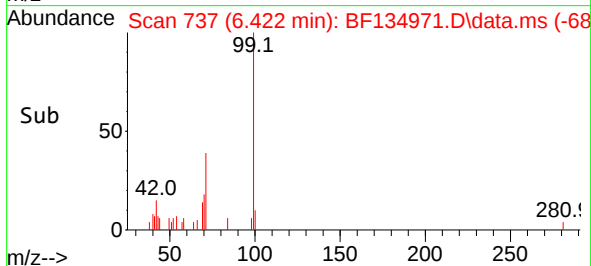
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL



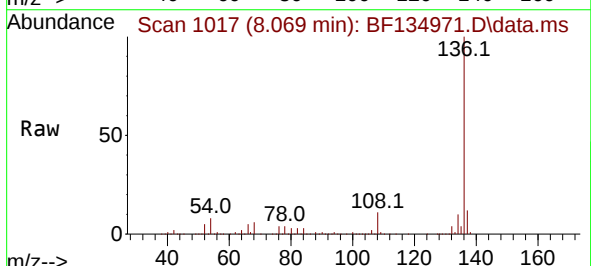
Tgt Ion: 99 Resp: 6388
Ion Ratio Lower Upper
99 100
42 15.3 14.6 22.0
71 38.9 27.6 41.4

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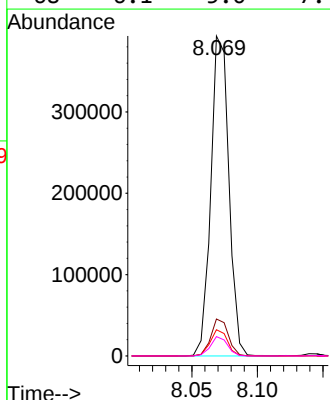
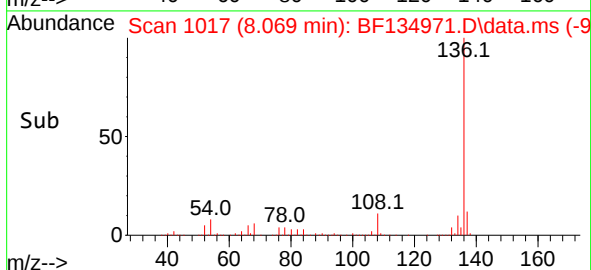
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023

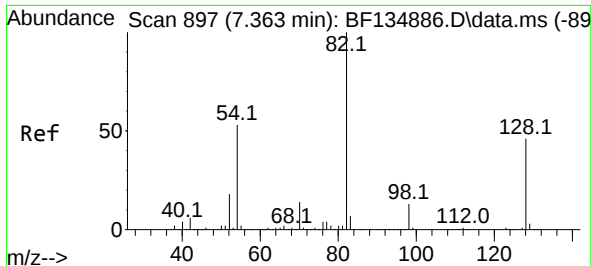


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32



Tgt Ion:136 Resp: 376667
Ion Ratio Lower Upper
136 100
137 11.5 8.9 13.3
54 8.2 6.6 9.8
68 6.1 5.0 7.4





#23

Nitrobenzene-d5

Concen: 0.579 ng

RT: 7.351 min Scan# 897

Delta R.T. -0.012 min

Lab File: BF134971.D

Acq: 28 Aug 2023 16:32

Instrument :

BNA_F

ClientSampleId :

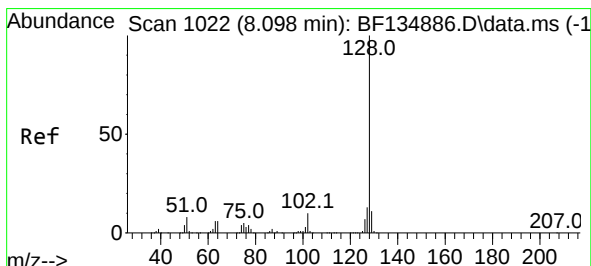
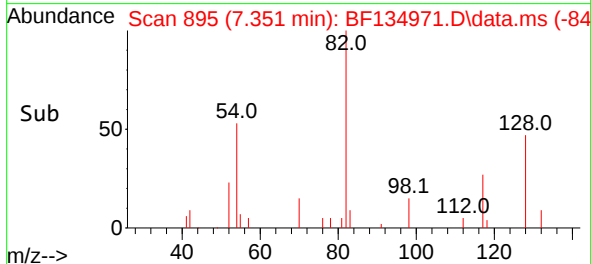
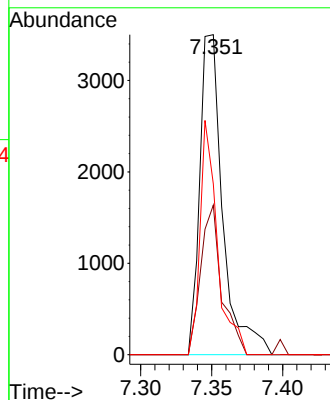
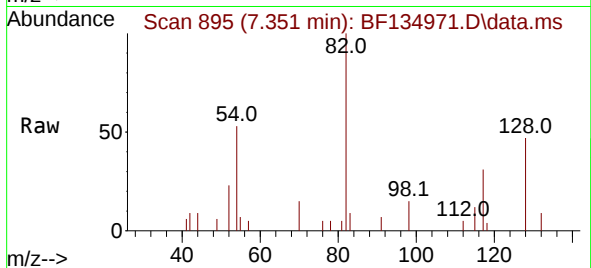
SB-04(21.5-23)DL

Tgt Ion: 82	Resp: 396
Ion Ratio	Lower Upper
82 100	
128 46.7	36.6 54.8
54 53.4	42.6 63.8

Manual Integrations

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Supervised By :mohammad ahmed 08/29/2023



#31

Naphthalene

Concen: 108.255 ng

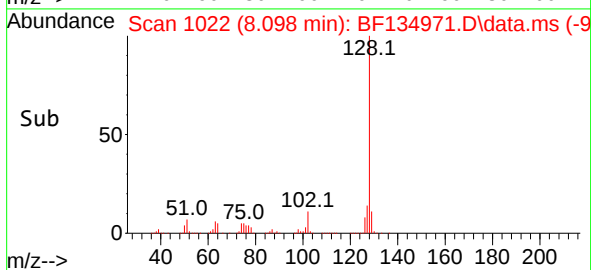
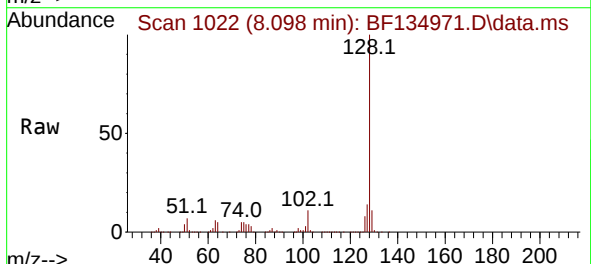
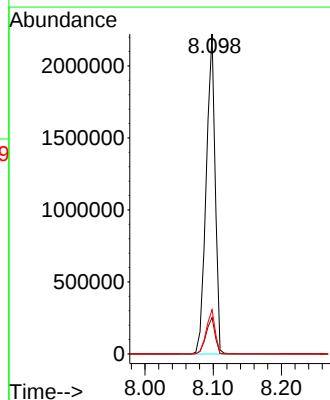
RT: 8.098 min Scan# 1022

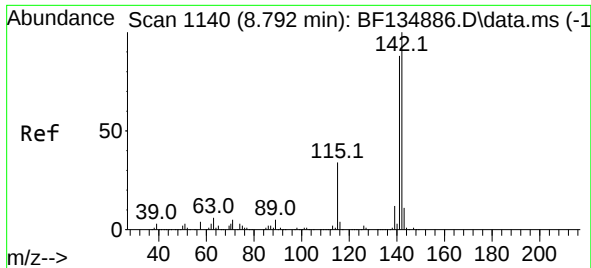
Delta R.T. -0.000 min

Lab File: BF134971.D

Acq: 28 Aug 2023 16:32

Tgt Ion:128	Resp: 2036062
Ion Ratio	Lower Upper
128 100	
129 11.4	9.0 13.4
127 13.8	10.6 16.0





#37

2-Methylnaphthalene

Concen: 16.655 ng

RT: 8.780 min Scan# 1138

Delta R.T. -0.012 min

Lab File: BF134971.D

Acq: 28 Aug 2023 16:32

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL

Tgt Ion:142 Resp: 208898

Ion Ratio Lower Upper

142 100

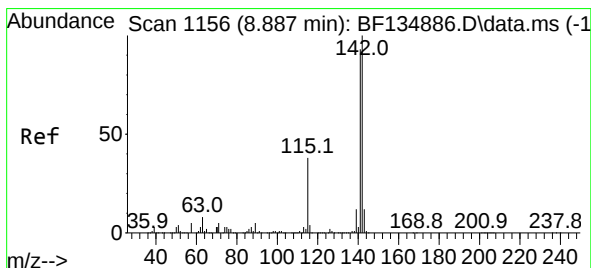
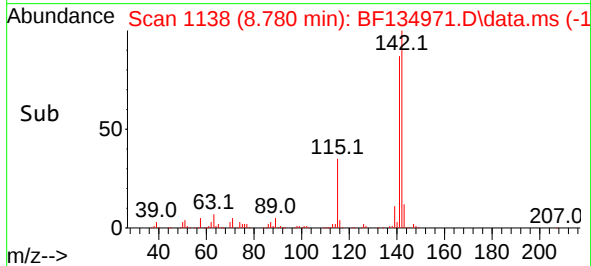
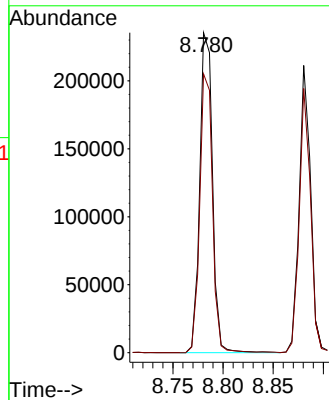
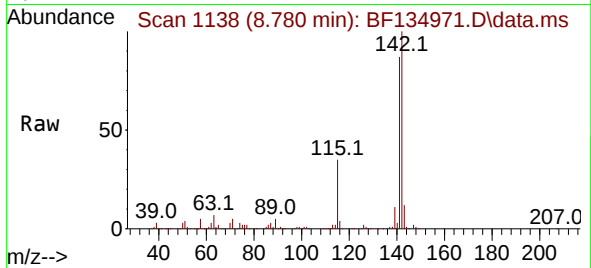
141 87.1 70.2 105.2

Manual Integrations

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#38

1-Methylnaphthalene

Concen: 14.364 ng

RT: 8.880 min Scan# 1155

Delta R.T. -0.006 min

Lab File: BF134971.D

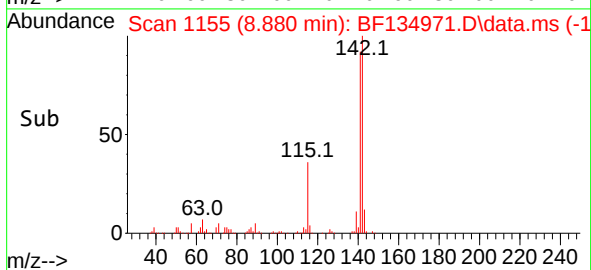
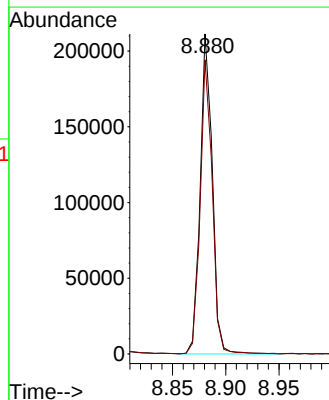
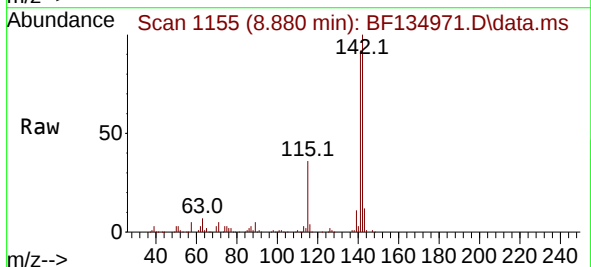
Acq: 28 Aug 2023 16:32

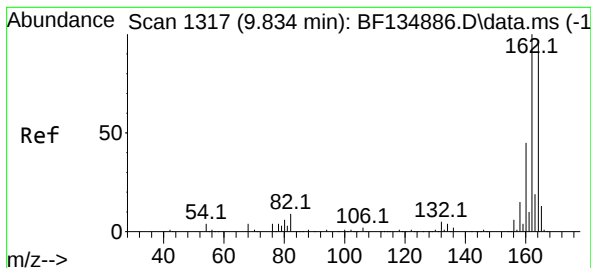
Tgt Ion:142 Resp: 168469

Ion Ratio Lower Upper

142 100

141 92.0 74.1 111.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.827 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134971.D

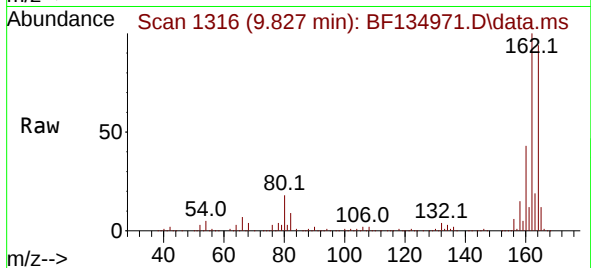
Acq: 28 Aug 2023 16:32

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL



Tgt Ion:164 Resp: 17966

Ion Ratio Lower Upper

164 100

162 106.7 82.6 123.8

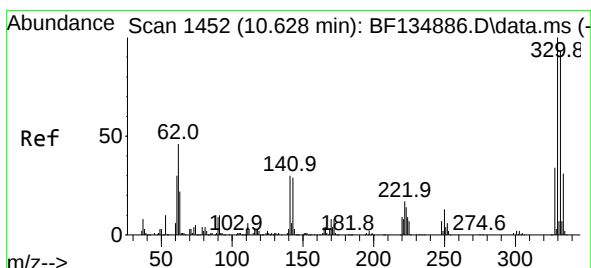
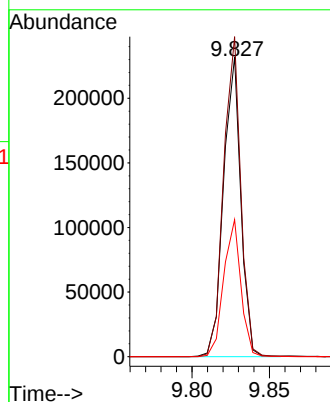
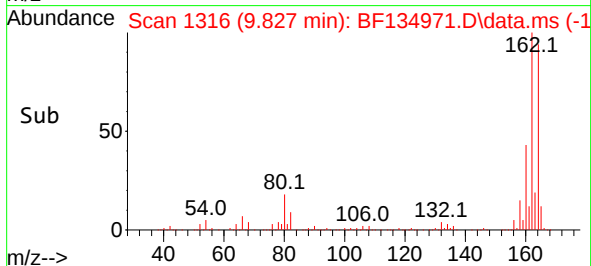
160 45.7 37.0 55.4

Manual Integrations

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Supervised By :mohammad ahmed 08/29/2023



#42

2,4,6-Tribromophenol

Concen: 0.807 ng

RT: 10.616 min Scan# 1450

Delta R.T. -0.012 min

Lab File: BF134971.D

Acq: 28 Aug 2023 16:32

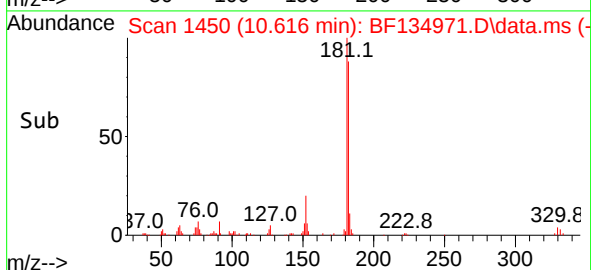
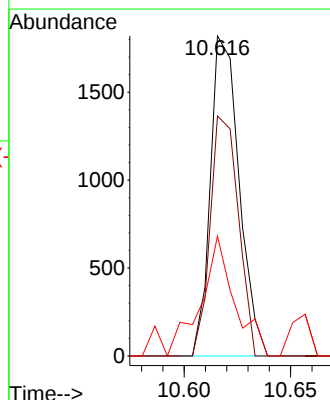
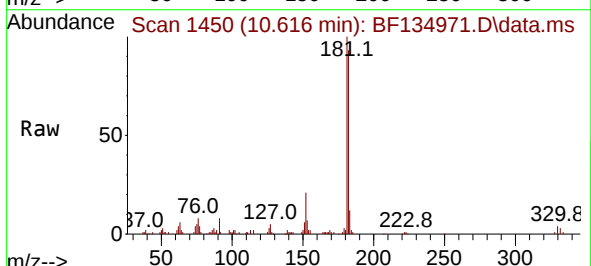
Tgt Ion:330 Resp: 1708

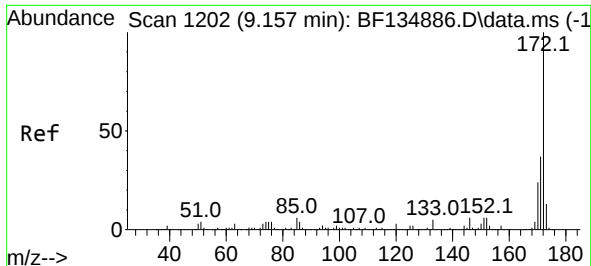
Ion Ratio Lower Upper

330 100

332 73.4 76.3 114.5#

141 47.5 23.4 35.2#





#45

2-Fluorobiphenyl

Concen: 0.707 ng

RT: 9.145 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF134971.D

Acq: 28 Aug 2023 16:32

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL

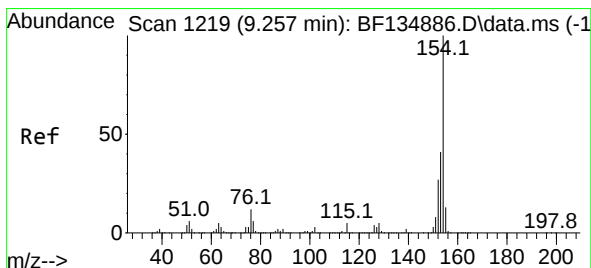
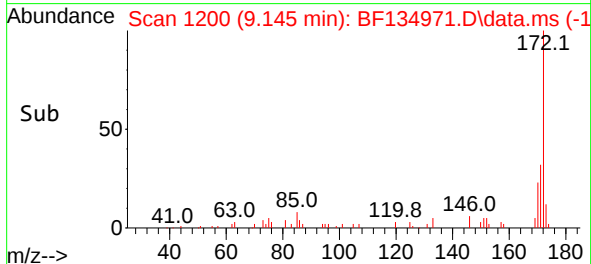
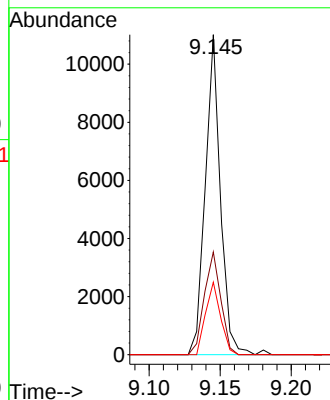
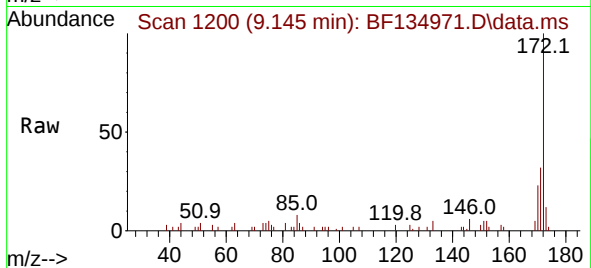
Tgt Ion:	172	Resp:	8214
Ion Ratio	Lower	Upper	
172	100		
171	32.1	29.4	44.0
170	22.6	19.6	29.4

Manual Integrations

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Supervised By :mohammad ahmed 08/29/2023



#46

1,1'-Biphenyl

Concen: 7.025 ng

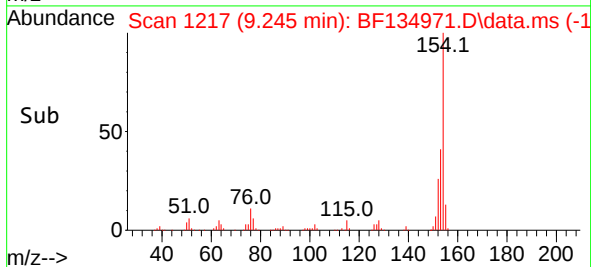
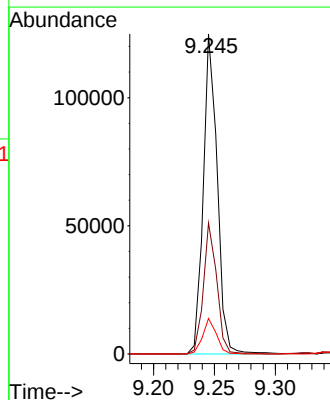
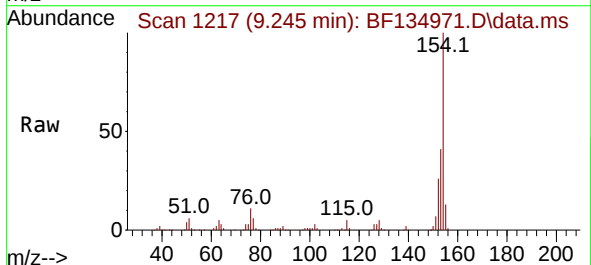
RT: 9.245 min Scan# 1217

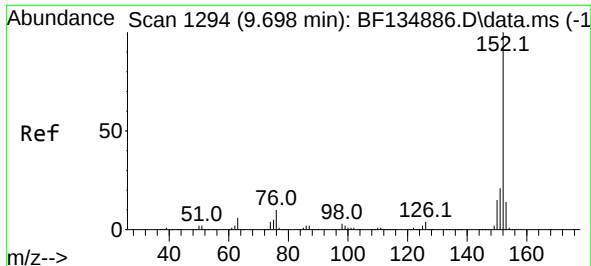
Delta R.T. -0.012 min

Lab File: BF134971.D

Acq: 28 Aug 2023 16:32

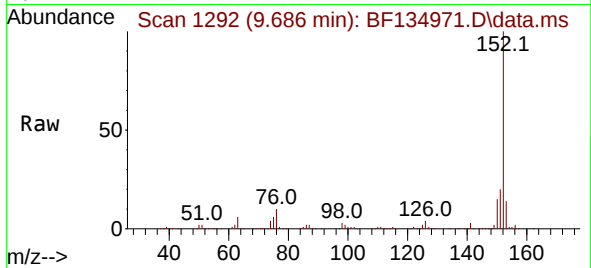
Tgt Ion:	154	Resp:	99649
Ion Ratio	Lower	Upper	
154	100		
153	40.9	21.3	61.3
76	11.1	0.0	31.8





#49
Acenaphthylene
Concen: 22.437 ng
RT: 9.686 min Scan# 1292
Delta R.T. -0.012 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

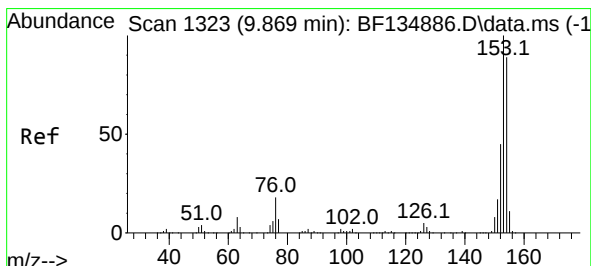
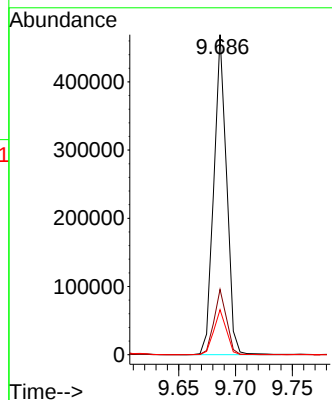
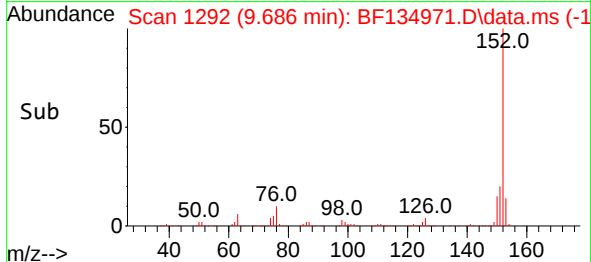
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL



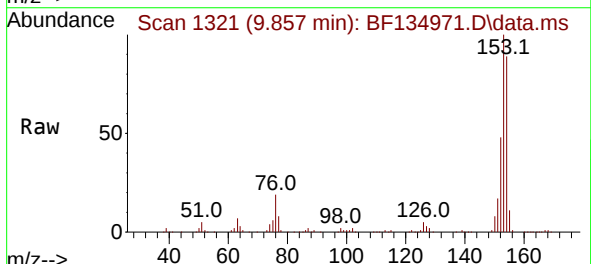
Tgt Ion:152 Resp: 36602
Ion Ratio Lower Upper
152 100
151 20.4 16.5 24.7
153 14.1 11.3 16.9

Manual Integrations
APPROVED

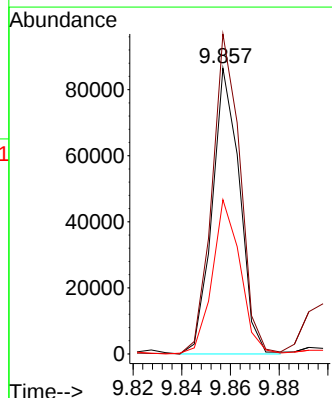
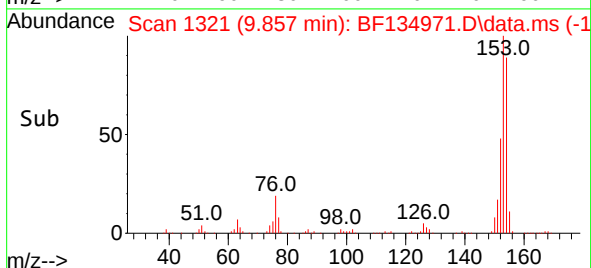
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023

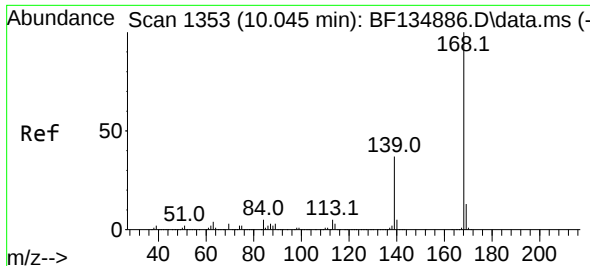


#52
Acenaphthene
Concen: 6.569 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32



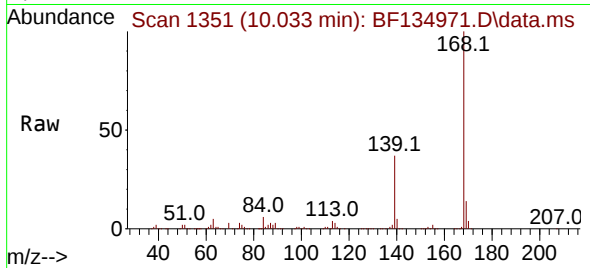
Tgt Ion:154 Resp: 67514
Ion Ratio Lower Upper
154 100
153 112.0 89.6 134.4
152 54.0 40.5 60.7





#55
Dibenzenofuran
Concen: 16.949 ng
RT: 10.033 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

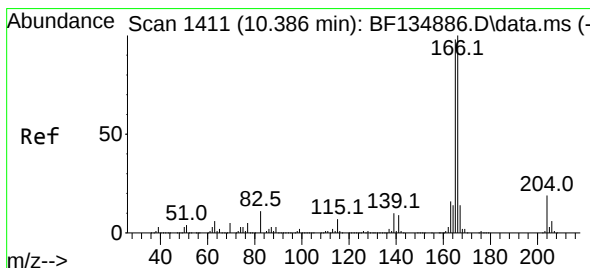
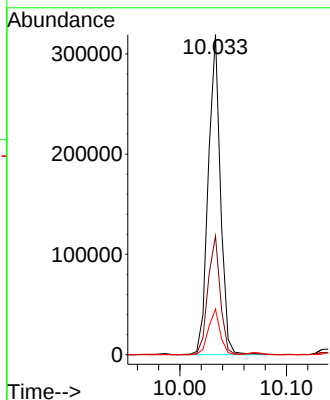
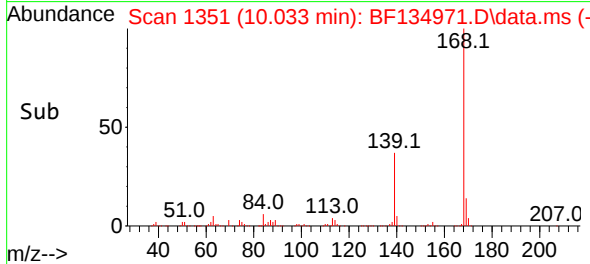
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL



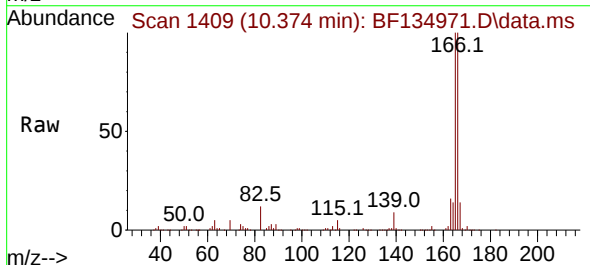
Tgt Ion:168 Resp: 253609
Ion Ratio Lower Upper
168 100
139 37.1 29.5 44.3
169 14.3 10.7 16.1

Manual Integrations
APPROVED

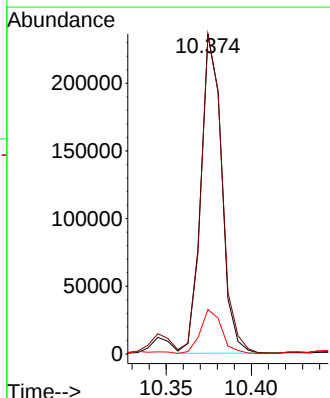
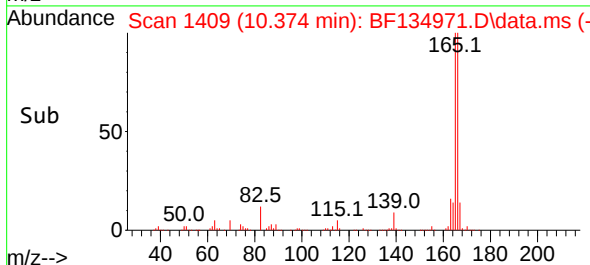
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023

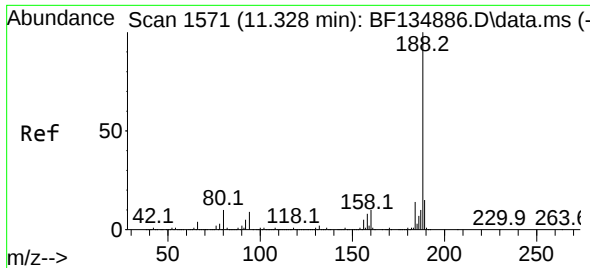


#58
Fluorene
Concen: 17.525 ng
RT: 10.374 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32



Tgt Ion:166 Resp: 198881
Ion Ratio Lower Upper
166 100
165 100.4 78.5 117.7
167 13.9 11.0 16.6





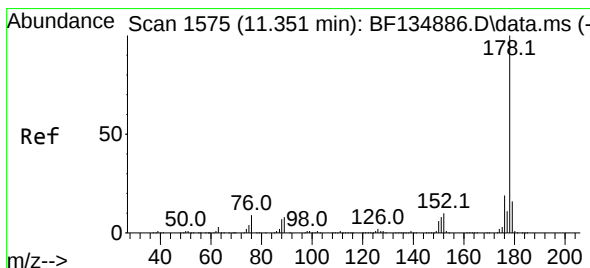
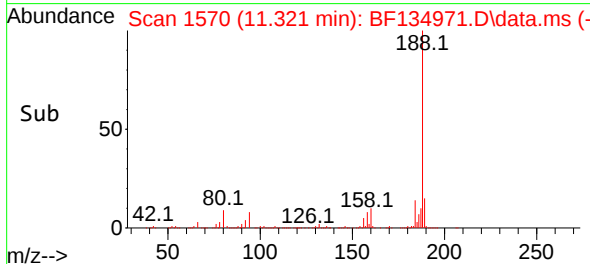
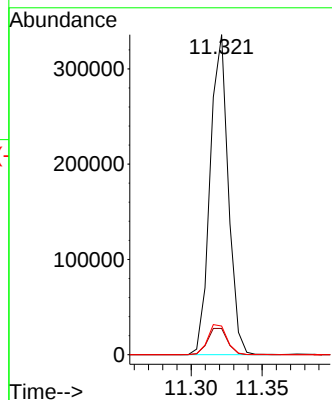
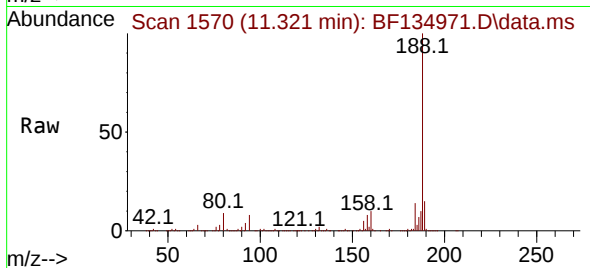
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.321 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL

Tgt Ion:188 Resp: 29914
Ion Ratio Lower Upper
188 100
94 8.2 7.5 11.3
80 9.0 7.8 11.6

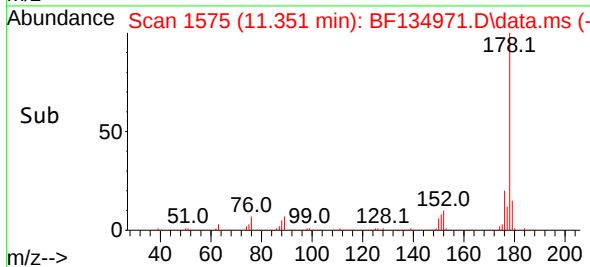
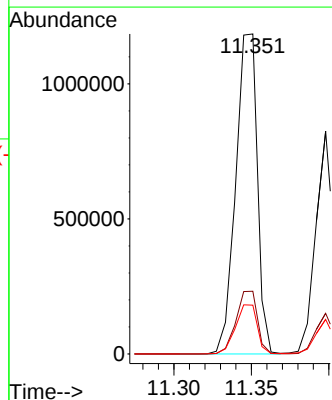
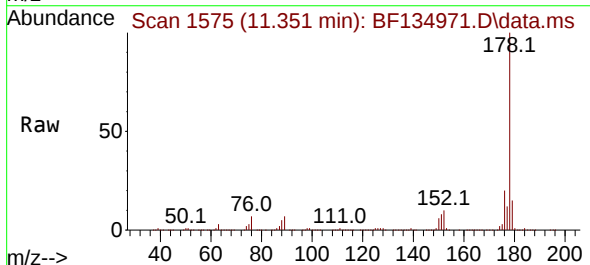
Manual Integrations
APPROVED

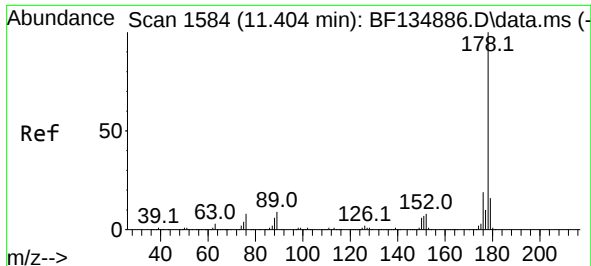
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#71
Phenanthrene
Concen: 73.473 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

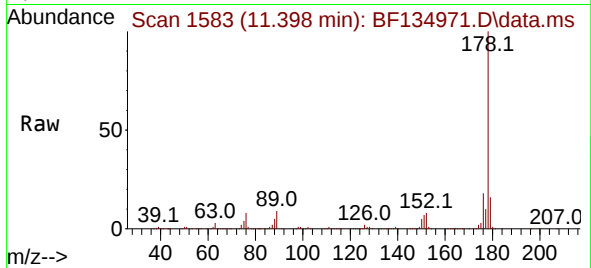
Tgt Ion:178 Resp: 1151731
Ion Ratio Lower Upper
178 100
176 19.6 15.5 23.3
179 15.2 12.6 19.0





#72
Anthracene
Concen: 40.922 ng
RT: 11.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

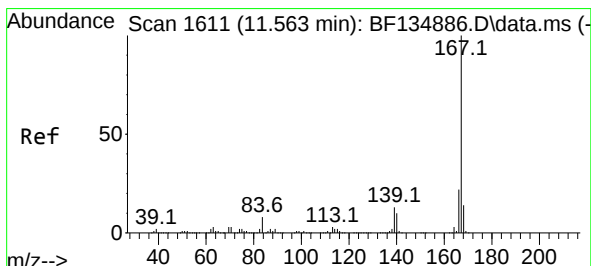
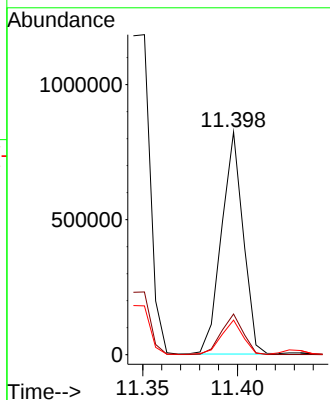
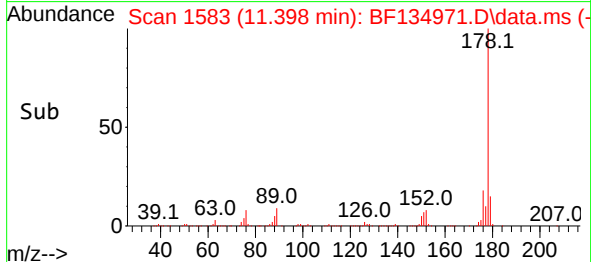
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL



Tgt Ion:178 Resp: 657258
Ion Ratio Lower Upper
178 100
176 18.2 15.0 22.6
179 15.5 12.5 18.7

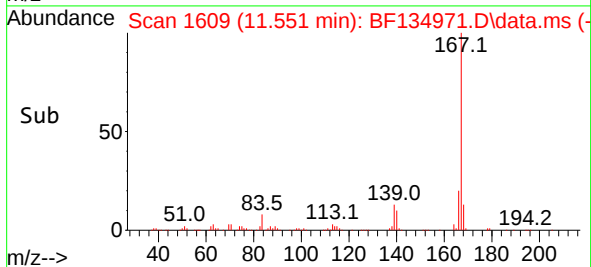
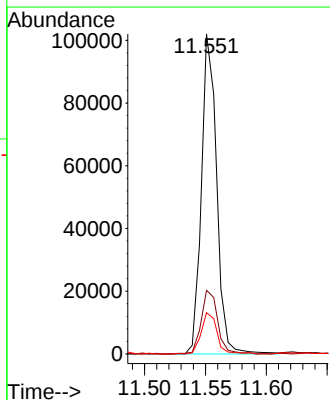
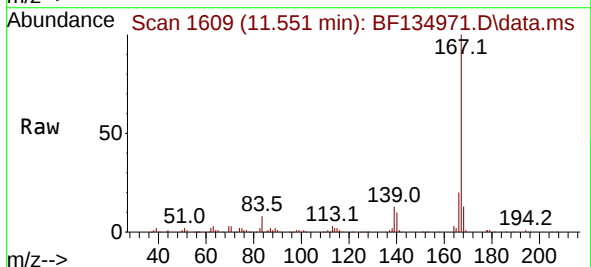
Manual Integrations
APPROVED

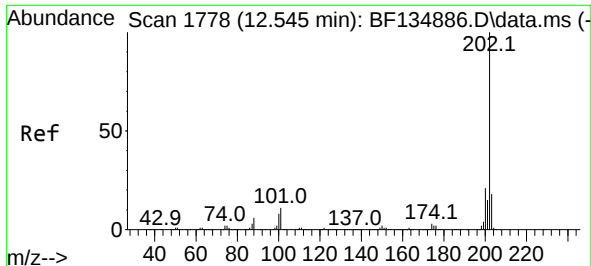
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#73
Carbazole
Concen: 6.717 ng
RT: 11.551 min Scan# 1609
Delta R.T. -0.012 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

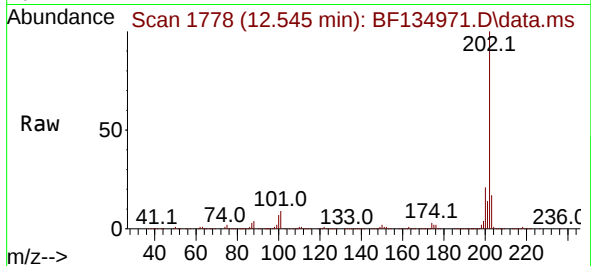
Tgt Ion:167 Resp: 88901
Ion Ratio Lower Upper
167 100
166 19.9 17.4 26.2
139 12.9 10.4 15.6





#75
Fluoranthene
Concen: 57.526 ng
RT: 12.545 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

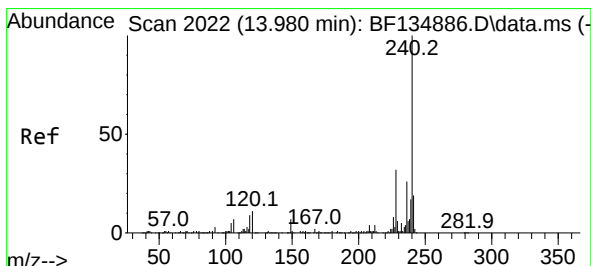
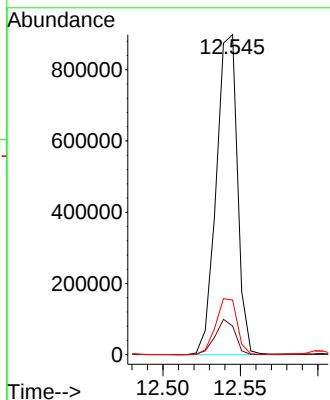
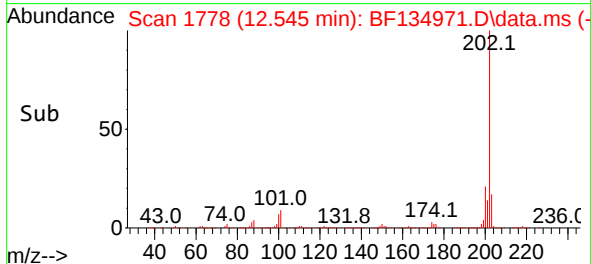
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL



Tgt Ion:202 Resp: 854424
Ion Ratio Lower Upper
202 100
101 8.9 0.0 30.5
203 17.1 0.0 37.8

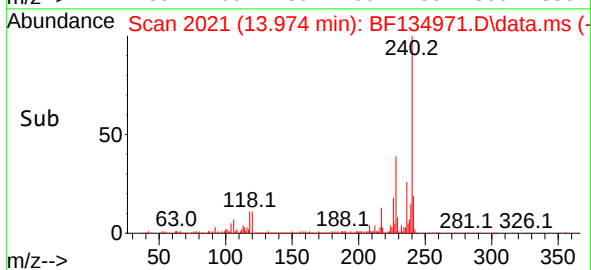
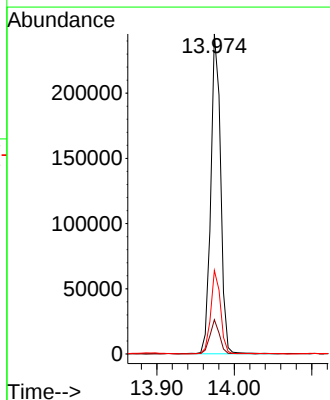
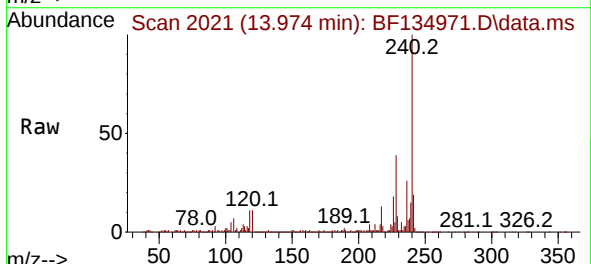
Manual Integrations
APPROVED

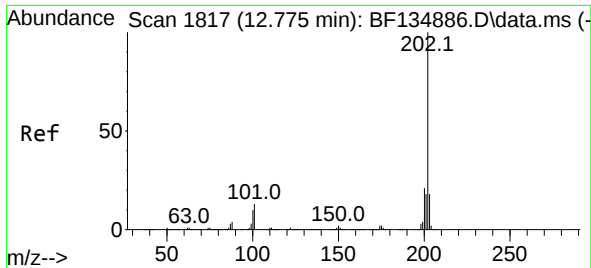
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

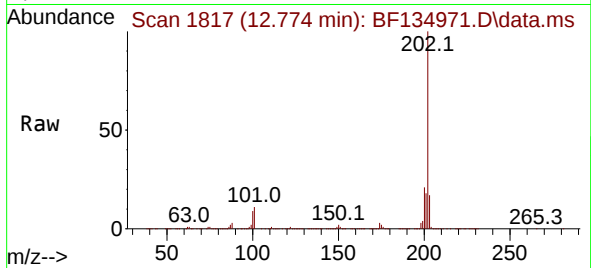
Tgt Ion:240 Resp: 215297
Ion Ratio Lower Upper
240 100
120 10.7 8.6 12.8
236 26.1 20.6 31.0





#78
Pyrene
Concen: 32.571 ng
RT: 12.774 min Scan# 1817
Delta R.T. -0.000 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

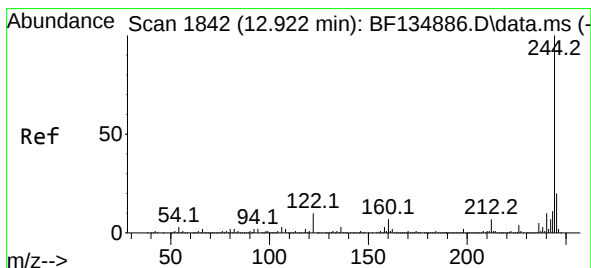
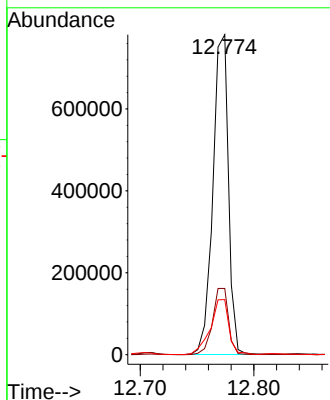
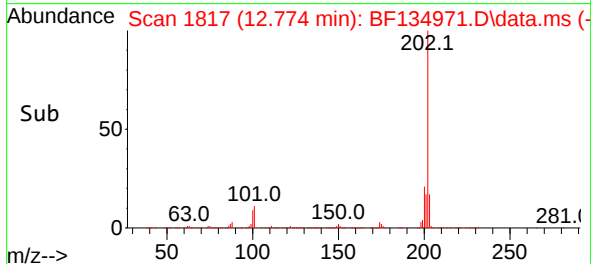
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL



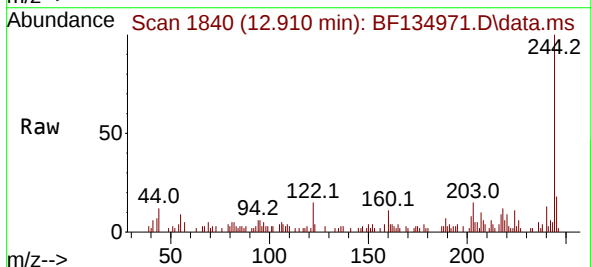
Tgt Ion:202 Resp: 743495
Ion Ratio Lower Upper
202 100
200 20.7 17.1 25.7
203 17.2 14.2 21.2

Manual Integrations
APPROVED

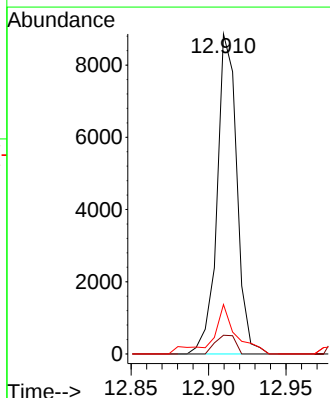
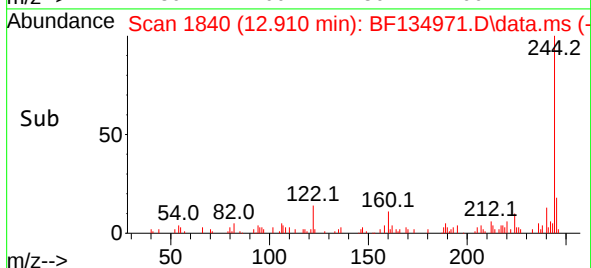
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023

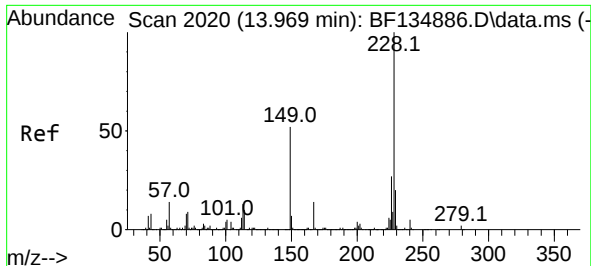


#79
Terphenyl-d14
Concen: 0.502 ng
RT: 12.910 min Scan# 1840
Delta R.T. -0.012 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32



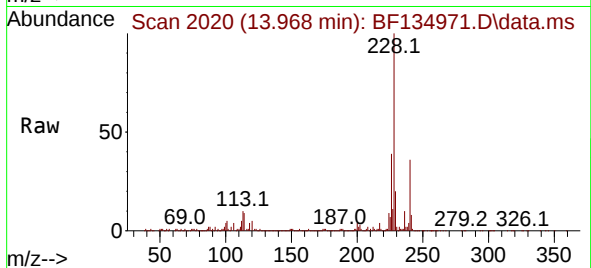
Tgt Ion:244 Resp: 7858
Ion Ratio Lower Upper
244 100
212 5.8 5.4 8.0
122 15.5 8.2 12.4#





#81
Benzo(a)anthracene
Concen: 18.081 ng m
RT: 13.968 min Scan# 20
Delta R.T. -0.000 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

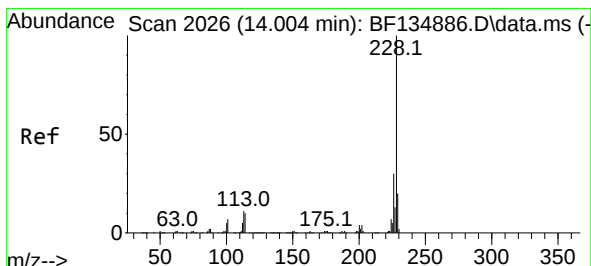
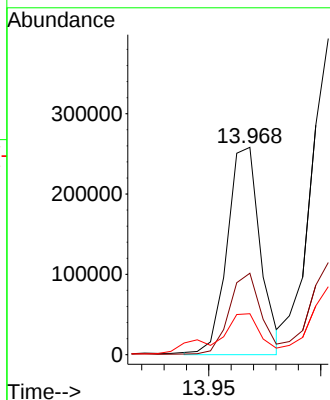
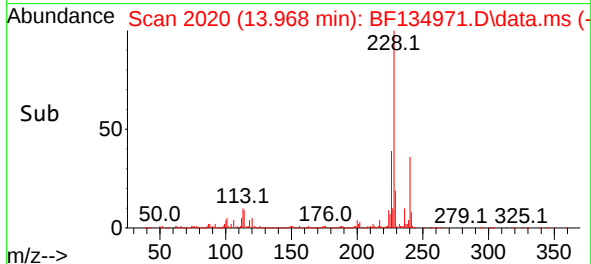
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL



Tgt Ion:228 Resp: 265602
Ion Ratio Lower Upper
228 100
226 39.3 21.8 32.6
229 19.8 15.6 23.4

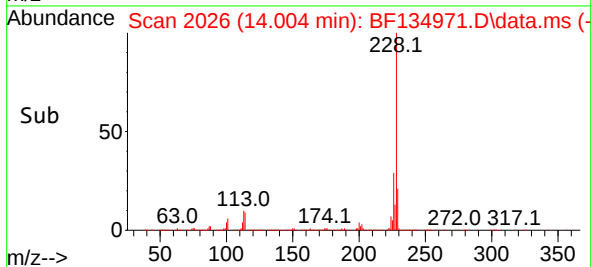
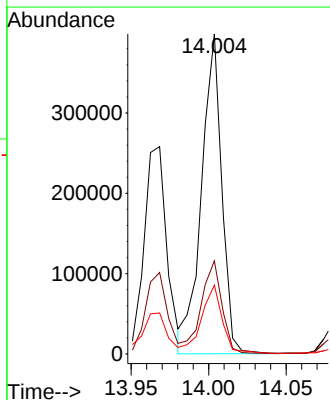
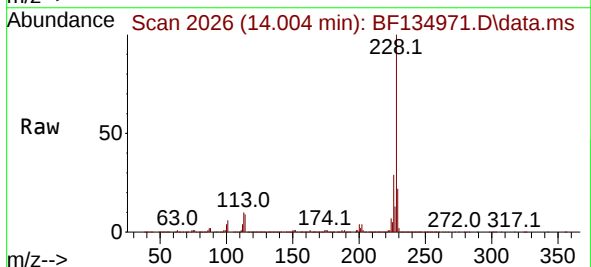
Manual Integrations
APPROVED

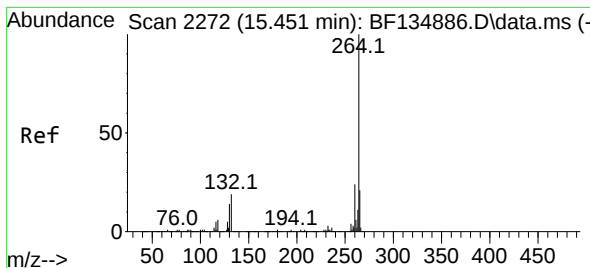
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#83
Chrysene
Concen: 24.975 ng
RT: 14.004 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

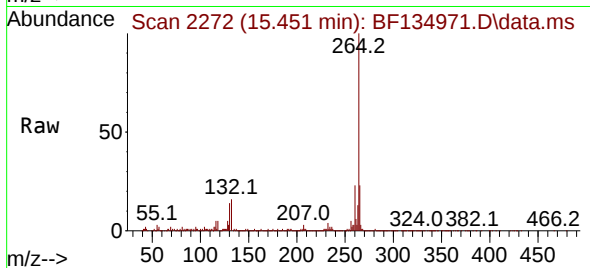
Tgt Ion:228 Resp: 361967
Ion Ratio Lower Upper
228 100
226 29.1 24.2 36.2
229 21.5 16.0 24.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

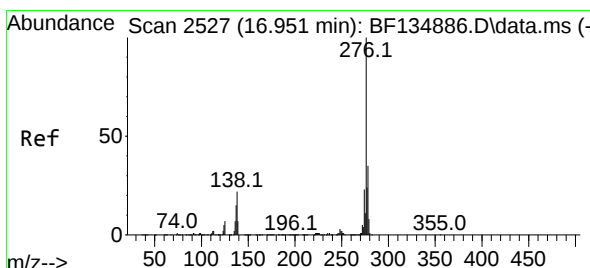
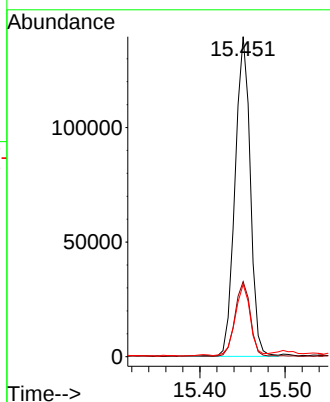
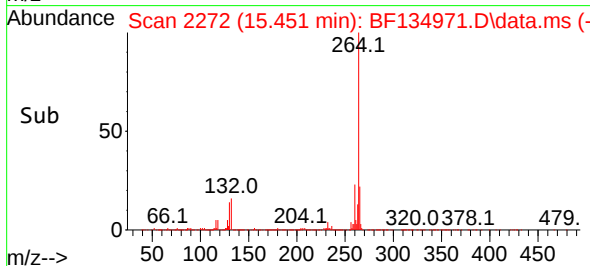
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL



Tgt Ion:264 Resp: 173079
Ion Ratio Lower Upper
264 100
260 23.4 19.0 28.6
265 22.6 17.1 25.7

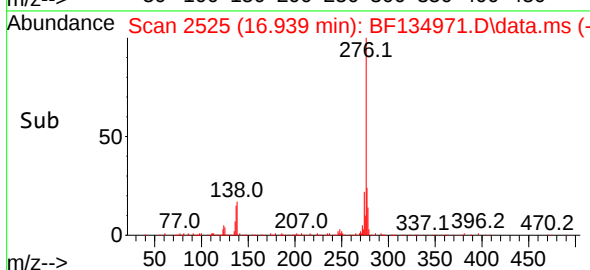
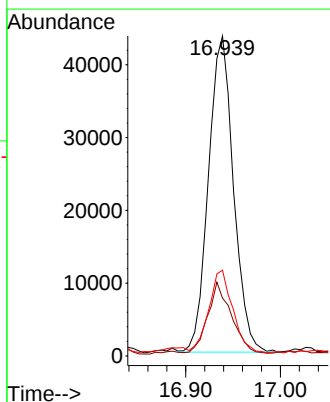
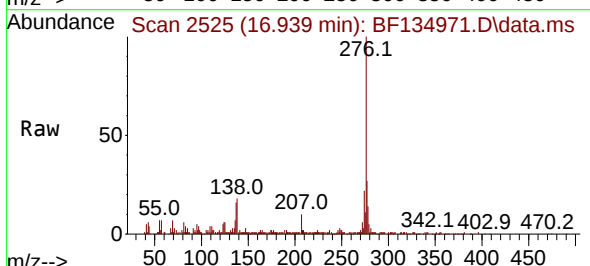
Manual Integrations
APPROVED

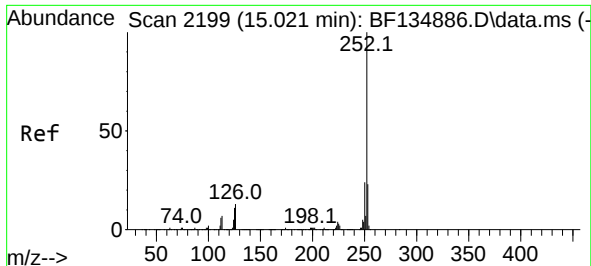
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 6.445 ng
RT: 16.939 min Scan# 2525
Delta R.T. -0.012 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

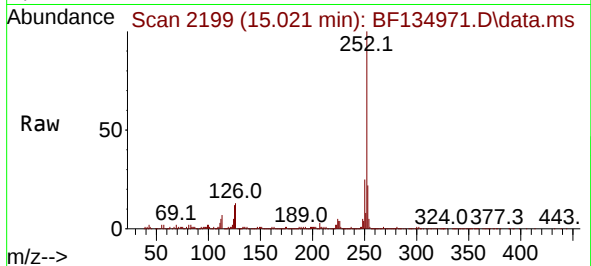
Tgt Ion:276 Resp: 79731
Ion Ratio Lower Upper
276 100
138 21.2 19.7 29.5
277 25.2 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 22.918 ng m
RT: 15.021 min Scan# 2199
Delta R.T. -0.000 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

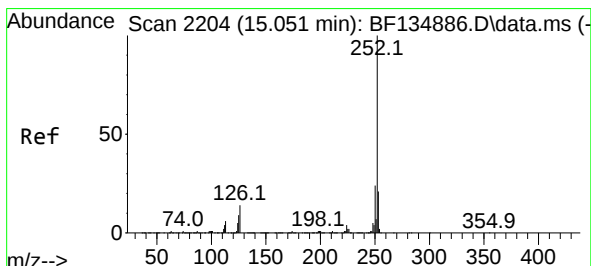
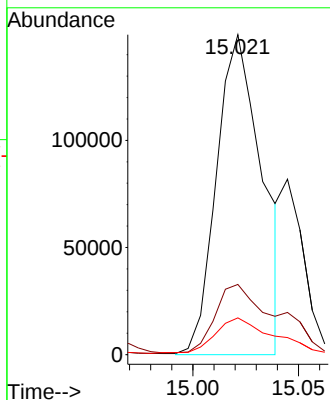
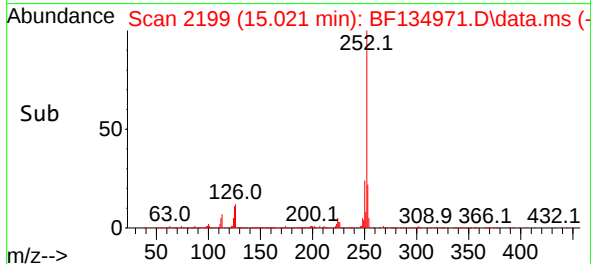
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL



Tgt Ion:252 Resp: 223799
Ion Ratio Lower Upper
252 100
253 22.0 18.1 27.1
125 11.5 8.4 12.6

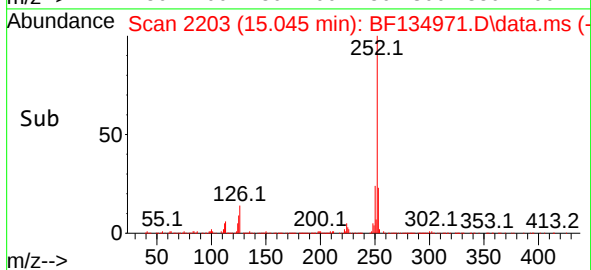
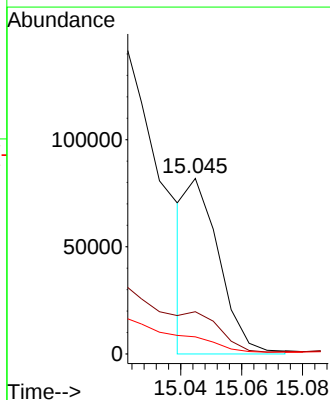
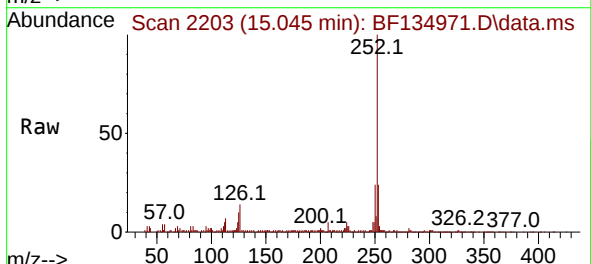
Manual Integrations
APPROVED

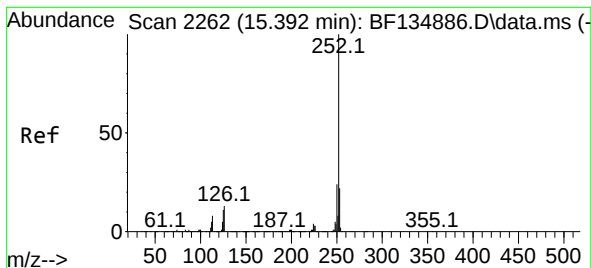
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#89
Benzo(k)fluoranthene
Concen: 6.221 ng m
RT: 15.045 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF134971.D
Acq: 28 Aug 2023 16:32

Tgt Ion:252 Resp: 59658
Ion Ratio Lower Upper
252 100
253 24.1 17.1 25.7
125 9.8 8.0 12.0





#90

Benzo(a)pyrene

Concen: 16.623 ng

RT: 15.386 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134971.D

Acq: 28 Aug 2023 16:32

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL

Tgt Ion:252 Resp: 16204

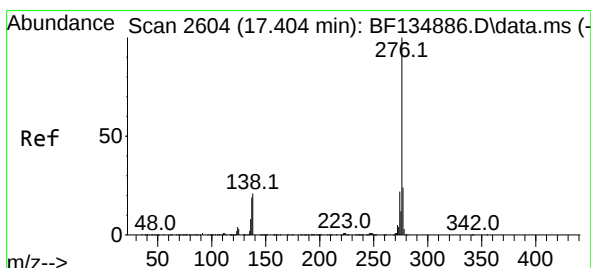
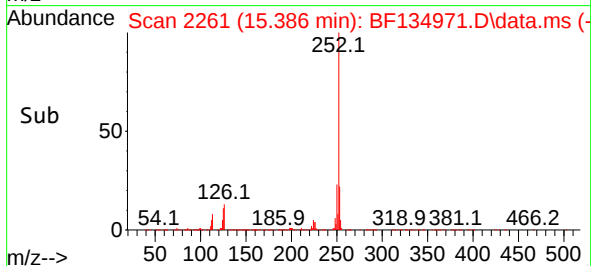
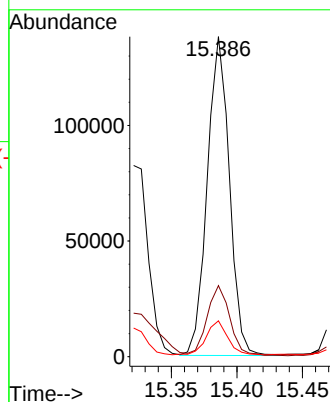
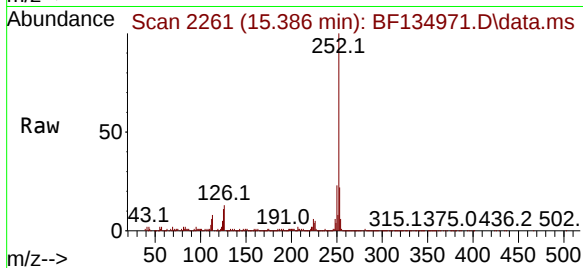
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	11.2	8.4	12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/29/2023

Supervised By :mohammad ahmed 08/29/2023



#92

Benzo(g,h,i)perylene

Concen: 7.550 ng

RT: 17.392 min Scan# 2602

Delta R.T. -0.012 min

Lab File: BF134971.D

Acq: 28 Aug 2023 16:32

Tgt Ion:276 Resp: 77368

Ion	Ratio	Lower	Upper
276	100		
277	25.9	19.2	28.8
138	19.1	17.0	25.6

