

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081123\
 Data File : BF134724.D
 Acq On : 11 Aug 2023 10:23
 Operator : CG\JU
 Sample : 03954-13 10X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-19

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/12/2023
 Supervised By :mohammad ahmed 08/12/2023

Quant Time: Aug 11 22:19:28 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 09:29:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	169913	20.000	ng	0.00
21) Naphthalene-d8	8.080	136	652433	20.000	ng	# 0.00
39) Acenaphthene-d10	9.833	164	287149	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	451181	20.000	ng	# 0.00
76) Chrysene-d12	13.980	240	300184	20.000	ng	# 0.00
86) Perylene-d12	15.451	264	285084	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	74307	6.648	ng	0.00
7) Phenol-d6	6.428	99	85001	5.949	ng	-0.01
23) Nitrobenzene-d5	7.351	82	51910	4.972	ng	-0.02
42) 2,4,6-Tribromophenol	10.621	330	18218	6.224	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	117981	6.832	ng	-0.01
79) Terphenyl-d14	12.915	244	94148	5.529	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.104	128	1893673	57.751	ng	98
37) 2-Methylnaphthalene	8.792	142	511778	23.547	ng	100
38) 1-Methylnaphthalene	8.892	142	343410	16.991	ng	99
46) 1,1'-Biphenyl	9.251	154	161904	7.251	ng	96
49) Acenaphthylene	9.692	152	102142	3.884	ng	# 93
52) Acenaphthene	9.869	154	626881	36.781	ng	99
55) Dibenzofuran	10.039	168	783592	32.296	ng	94
58) Fluorene	10.386	166	816746	46.216	ng	95
71) Phenanthrene	11.369	178	4521488	188.671	ng	98
72) Anthracene	11.410	178	1487690	60.774	ng	98
73) Carbazole	11.557	167	672592	30.773	ng	99
75) Fluoranthene	12.563	202	4396141	173.661	ng	98
78) Pyrene	12.786	202	4134007	159.151	ng	94
81) Benzo(a)anthracene	13.974	228	2062215	96.075	ng	98
83) Chrysene	14.010	228	1909255	91.299	ng	97
87) Indeno(1,2,3-cd)pyrene	16.945	276	698659	41.670	ng	# 95
88) Benzo(b)fluoranthene	15.027	252	1807147m	103.937	ng	
89) Benzo(k)fluoranthene	15.051	252	668916m	38.620	ng	
90) Benzo(a)pyrene	15.392	252	1326425	81.821	ng	# 93
91) Dibenzo(a,h)anthracene	16.951	278	164025m	12.105	ng	
92) Benzo(g,h,i)perylene	17.398	276	656149	47.472	ng	# 91

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

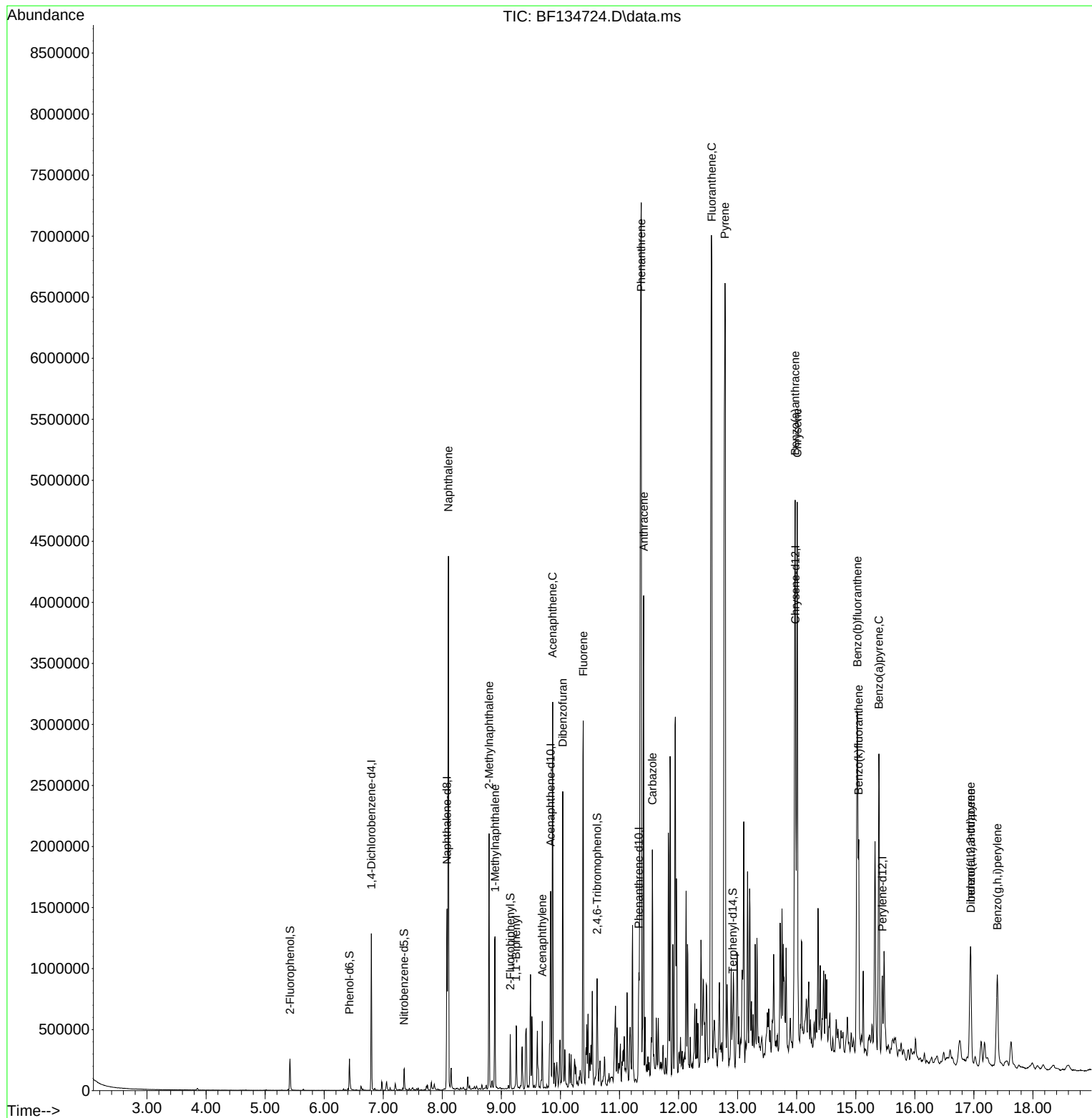
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081123\
Data File : BF134724.D
Acq On : 11 Aug 2023 10:23
Operator : CG\JU
Sample : 03954-13 10X
Misc :
ALS Vial : 6 Sample Multiplier: 1

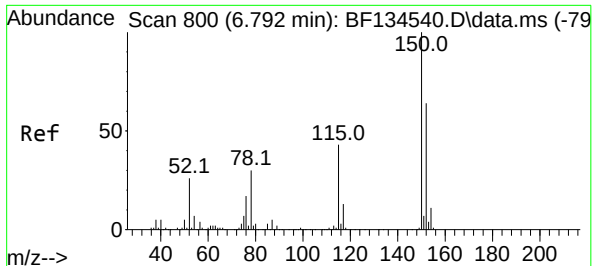
Instrument :
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WC-19

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Supervised By :mohammad ahmed 08/12/2023

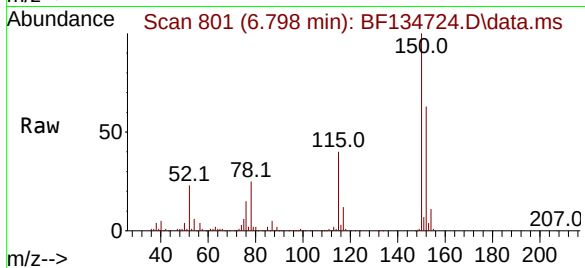
Quant Time: Aug 11 22:19:28 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 04 09:29:15 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

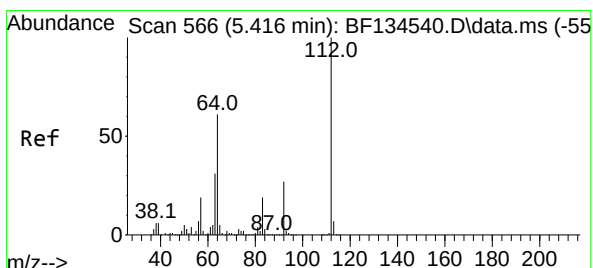
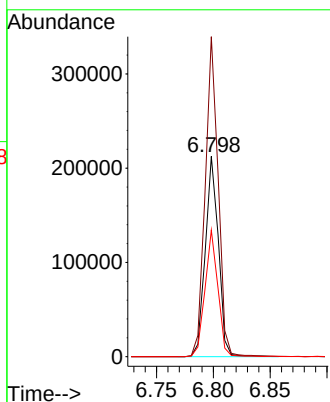
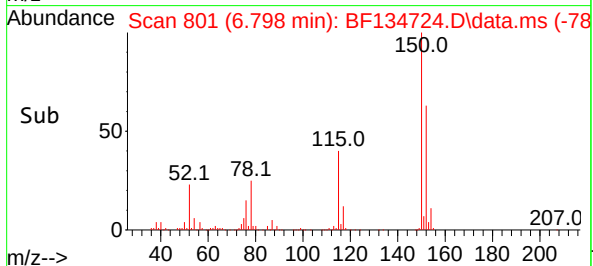
Instrument :
BNA_F
ClientSampleId :
WC-19



Tgt Ion:152 Resp: 16991
Ion Ratio Lower Upper
152 100
150 159.8 128.3 192.5
115 63.2 52.4 78.6

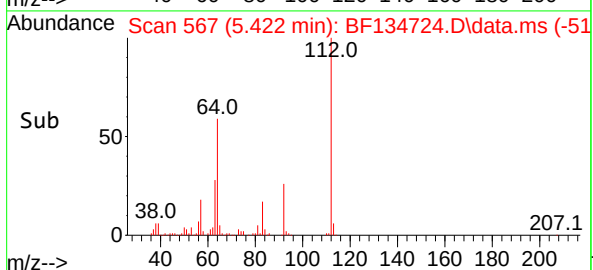
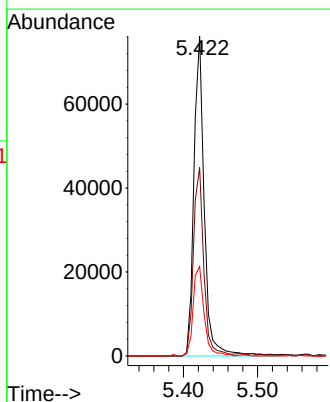
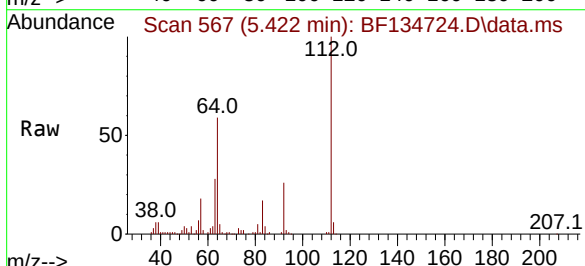
Manual Integrations
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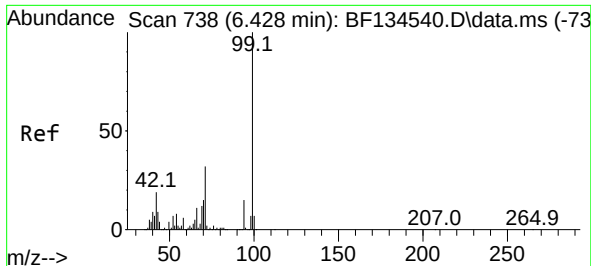
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#5
2-Fluorophenol
Concen: 6.648 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

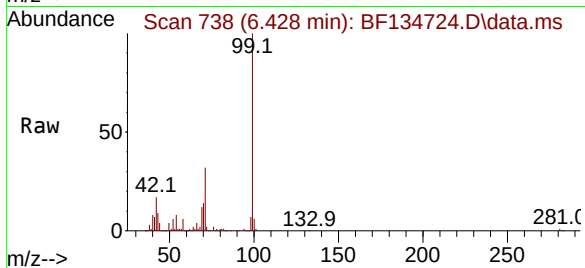
Tgt Ion:112 Resp: 74307
Ion Ratio Lower Upper
112 100
64 58.9 44.9 67.3
63 27.9 25.4 38.0





#7
Phenol-d6
Concen: 5.949 ng
RT: 6.428 min Scan# 738
Delta R.T. -0.012 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

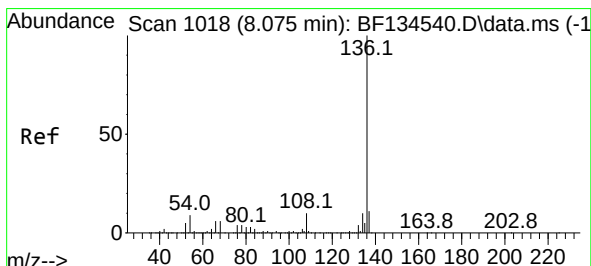
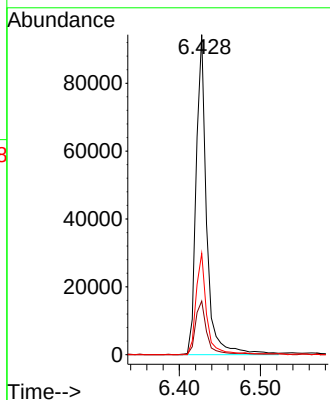
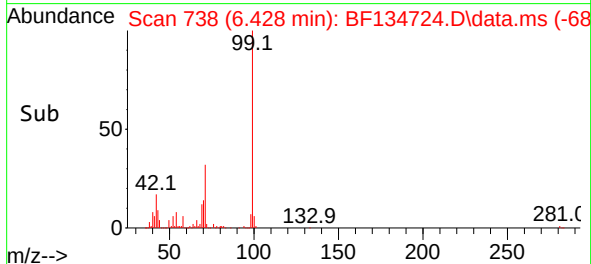
Instrument :
BNA_F
ClientSampleId :
WC-19



Tgt Ion: 99 Resp: 85000
Ion Ratio Lower Upper
99 100
42 16.7 18.7 28.1#
71 31.7 36.4 54.6#

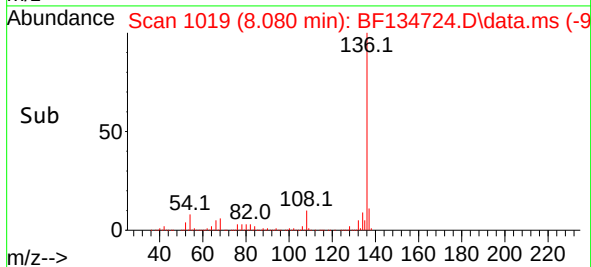
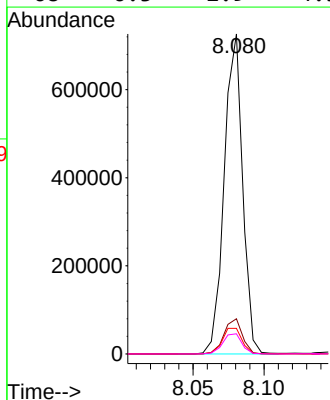
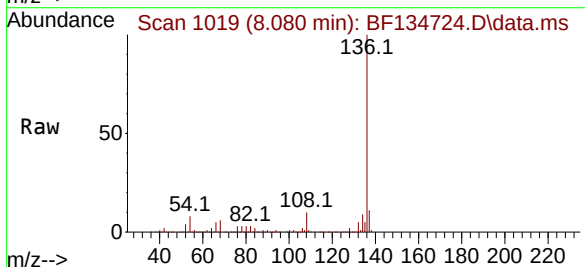
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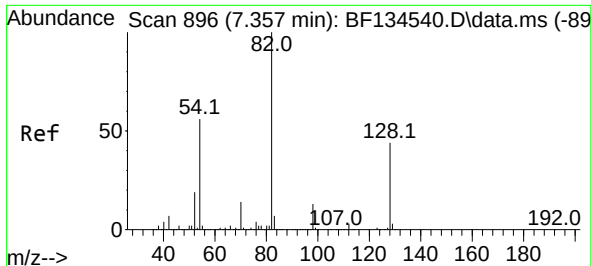
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.080 min Scan# 1019
Delta R.T. -0.000 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

Tgt Ion:136 Resp: 652433
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 8.0 5.2 7.8#
68 6.3 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 4.972 ng

RT: 7.351 min Scan# 896

Delta R.T. -0.018 min

Lab File: BF134724.D

Acq: 11 Aug 2023 10:23

Instrument :

BNA_F

ClientSampleId :

WC-19

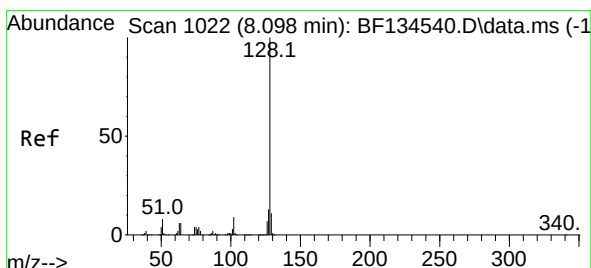
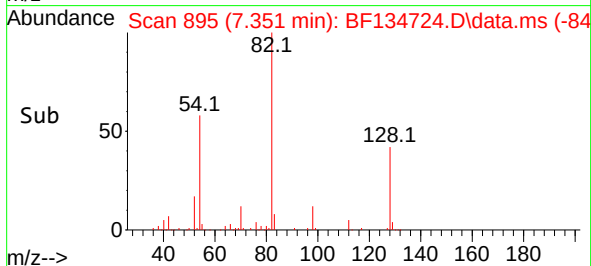
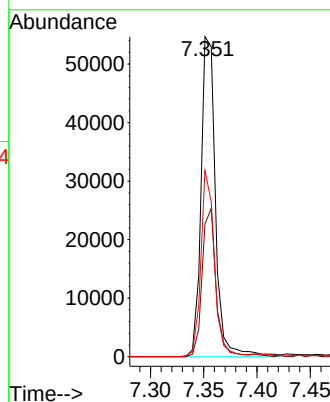
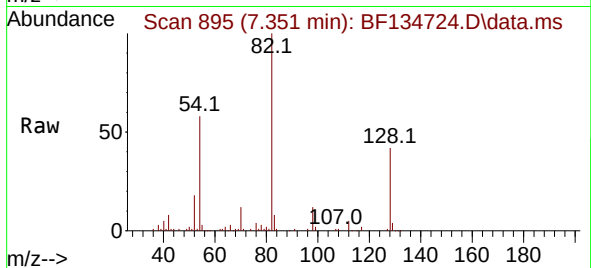
Tgt Ion:	82	Resp:	51910
Ion Ratio	Lower	Upper	
82	100		
128	41.5	34.3	51.5
54	58.1	43.8	65.6

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Supervised By :mohammad ahmed 08/12/2023



#31

Naphthalene

Concen: 57.751 ng

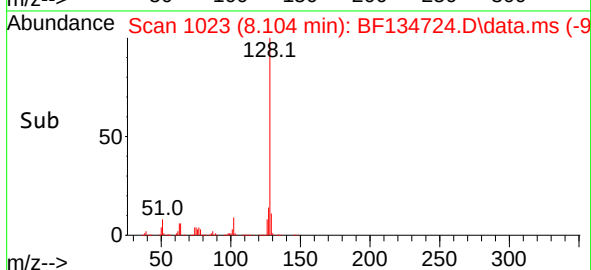
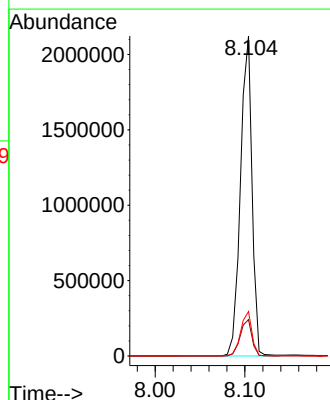
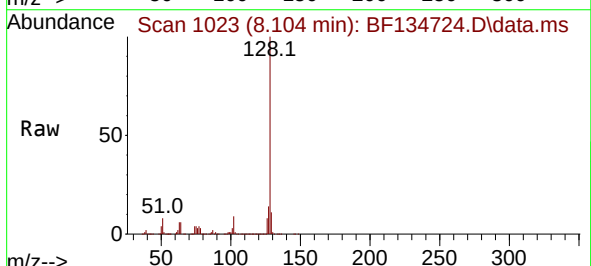
RT: 8.104 min Scan# 1023

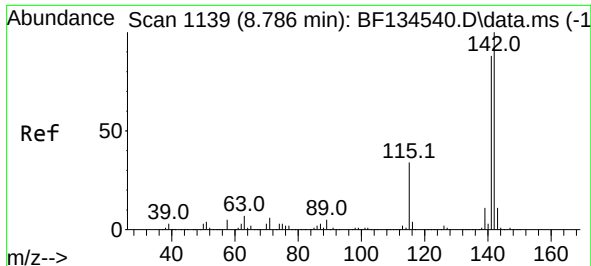
Delta R.T. -0.000 min

Lab File: BF134724.D

Acq: 11 Aug 2023 10:23

Tgt Ion:	128	Resp:	1893673
Ion Ratio	Lower	Upper	
128	100		
129	11.4	8.4	12.6
127	13.9	10.7	16.1





#37

2-Methylnaphthalene

Concen: 23.547 ng

RT: 8.792 min Scan# 1139

Delta R.T. -0.000 min

Lab File: BF134724.D

Acq: 11 Aug 2023 10:23

Instrument :

BNA_F

ClientSampleId :

WC-19

Tgt Ion:142 Resp: 511778

Ion Ratio Lower Upper

142 100

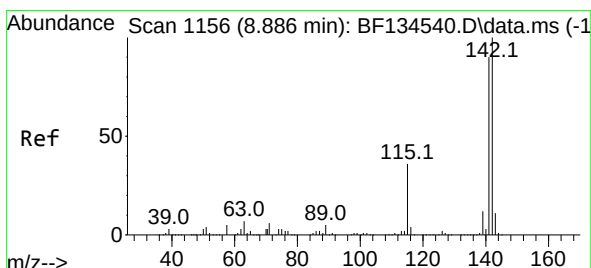
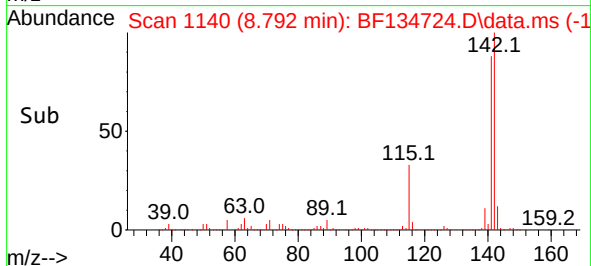
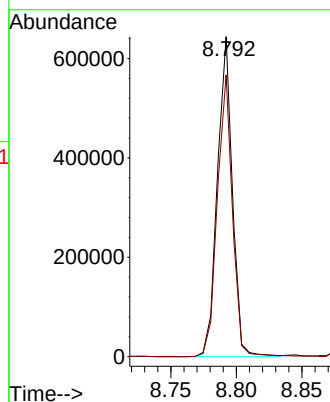
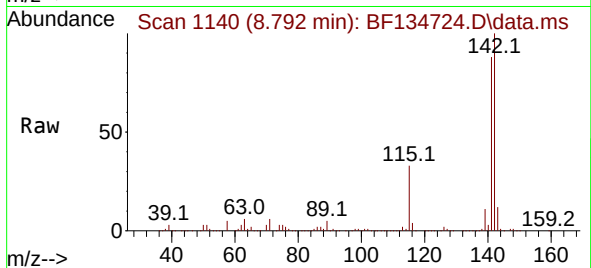
141 88.0 70.8 106.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/12/2023

Supervised By :mohammad ahmed 08/12/2023



#38

1-Methylnaphthalene

Concen: 16.991 ng

RT: 8.892 min Scan# 1157

Delta R.T. -0.000 min

Lab File: BF134724.D

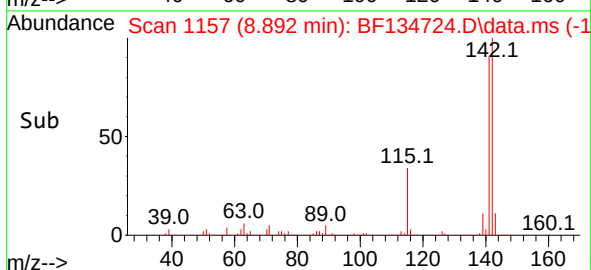
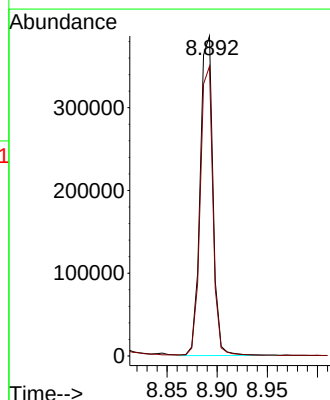
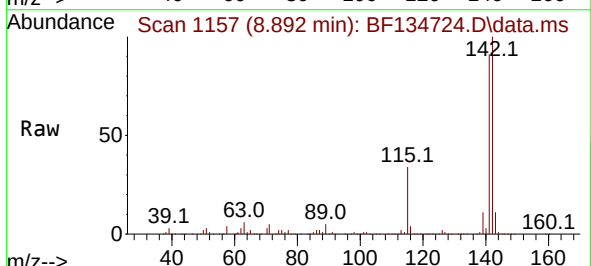
Acq: 11 Aug 2023 10:23

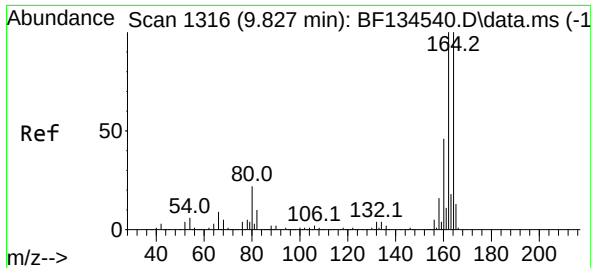
Tgt Ion:142 Resp: 343410

Ion Ratio Lower Upper

142 100

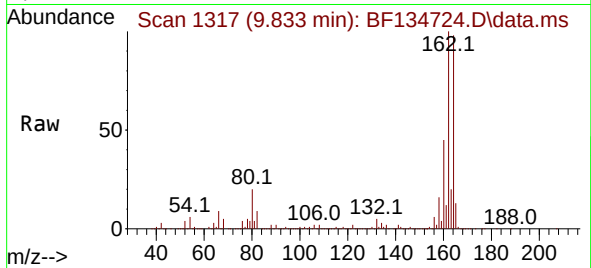
141 90.5 71.4 107.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

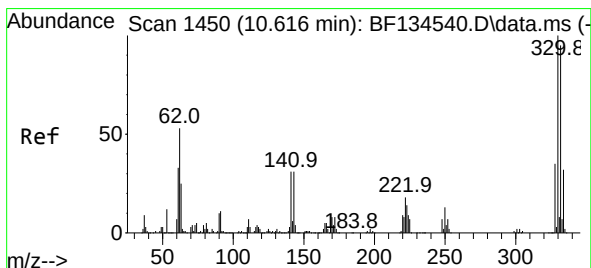
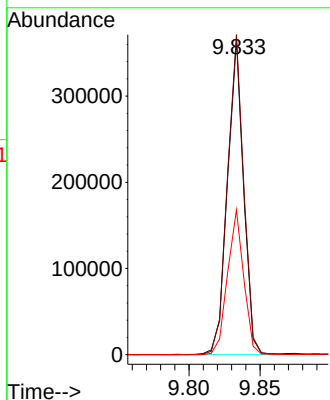
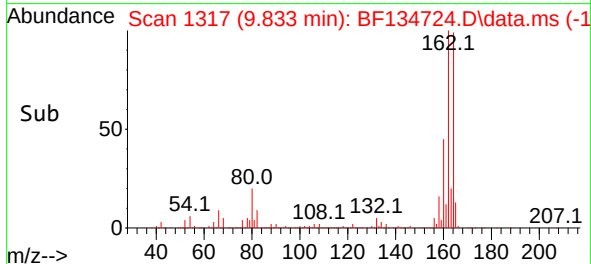
Instrument :
BNA_F
ClientSampleId :
WC-19



Tgt Ion:164 Resp: 287149
Ion Ratio Lower Upper
164 100
162 101.6 82.6 123.8
160 46.0 37.2 55.8

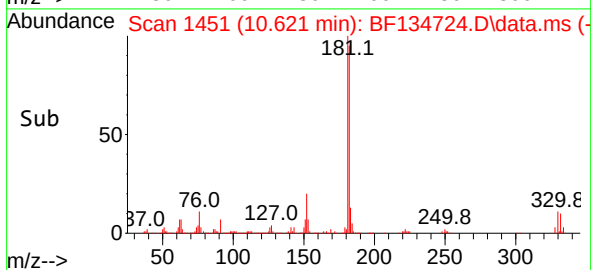
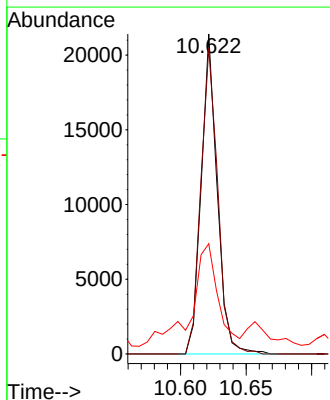
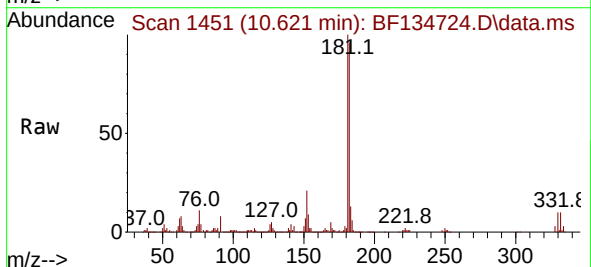
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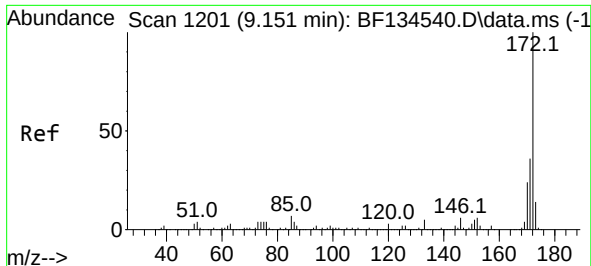
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#42
2,4,6-Tribromophenol
Concen: 6.224 ng
RT: 10.621 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

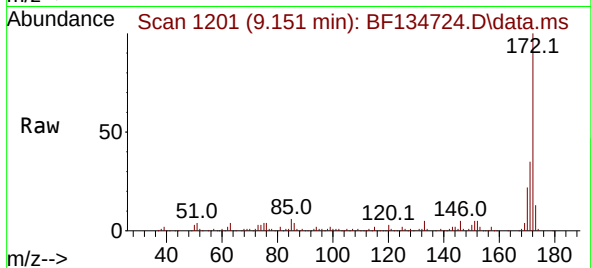
Tgt Ion:330 Resp: 18218
Ion Ratio Lower Upper
330 100
332 100.9 78.8 118.2
141 53.5 25.4 38.2#





#45
2-Fluorobiphenyl
Concen: 6.832 ng
RT: 9.151 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

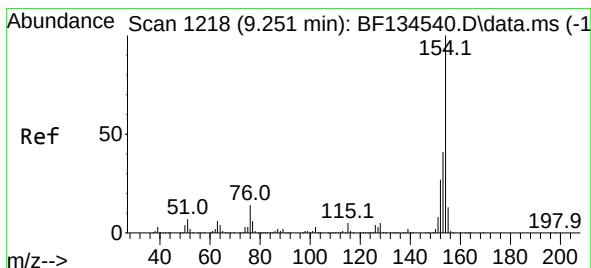
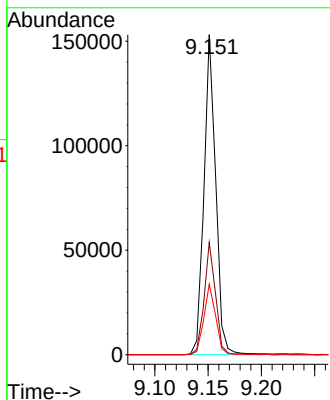
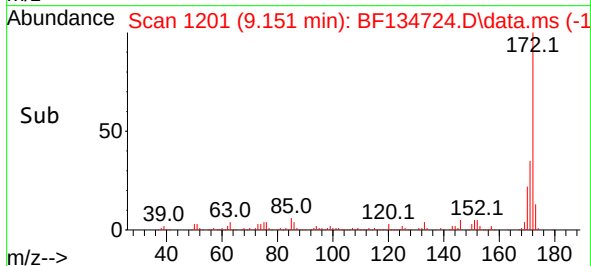
Instrument : BNA_F
ClientSampleId : WC-19



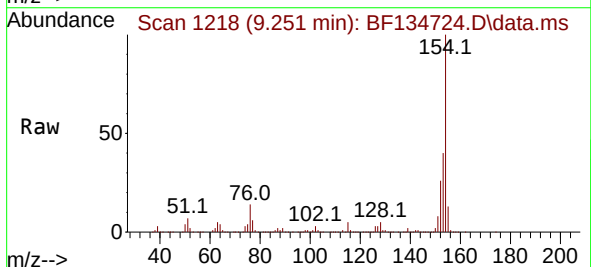
Tgt Ion:172 Resp: 11798
Ion Ratio Lower Upper
172 100
171 35.1 28.8 43.2
170 22.0 18.7 28.1

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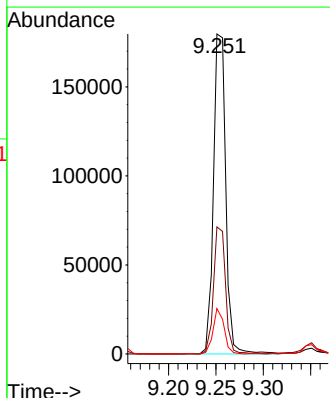
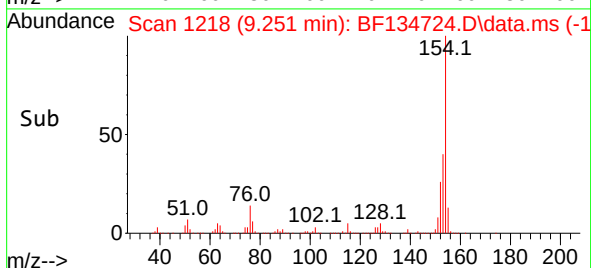
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

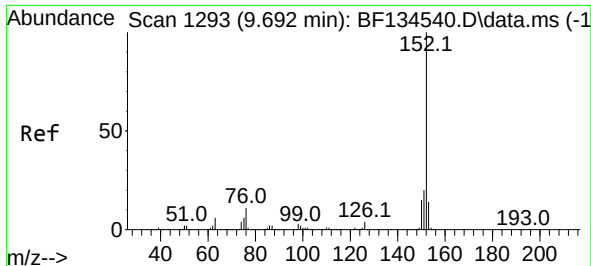


#46
1,1'-Biphenyl
Concen: 7.251 ng
RT: 9.251 min Scan# 1218
Delta R.T. -0.012 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23



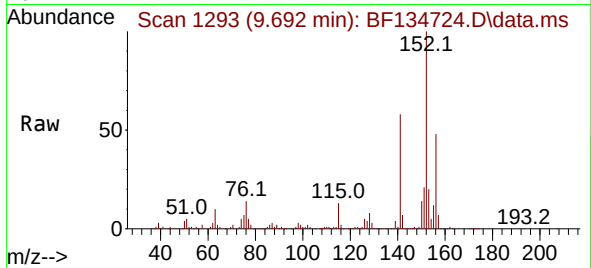
Tgt Ion:154 Resp: 161904
Ion Ratio Lower Upper
154 100
153 39.7 20.8 60.8
76 14.2 0.0 30.2





#49
Acenaphthylene
Concen: 3.884 ng
RT: 9.692 min Scan# 1293
Delta R.T. -0.006 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

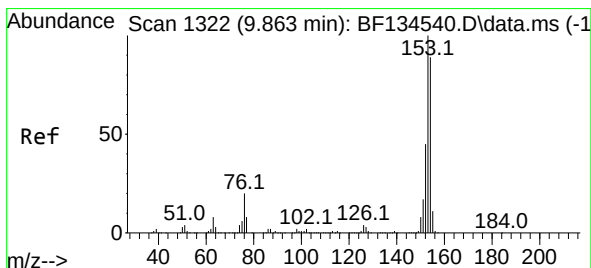
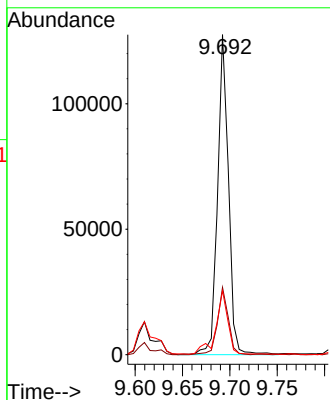
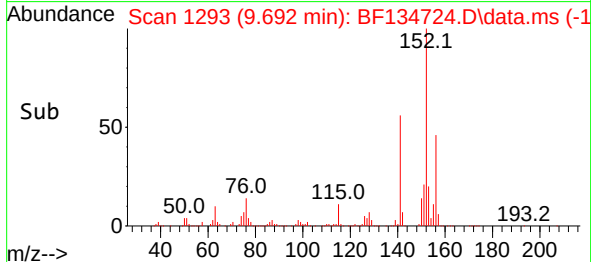
Instrument :
BNA_F
ClientSampleId :
WC-19



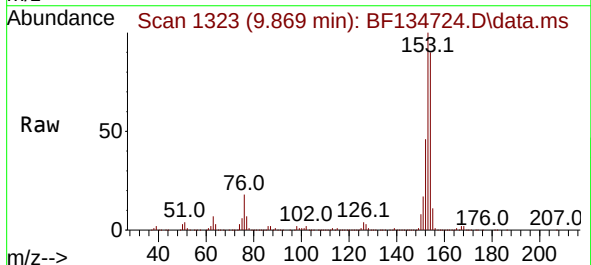
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Ion Ratio Lower Upper
152 100
151 21.1 16.4 24.6
153 20.0 10.9 16.3

Manual Integrations
APPROVED

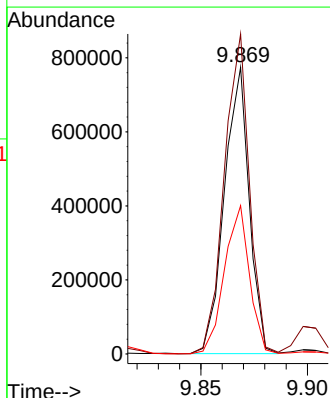
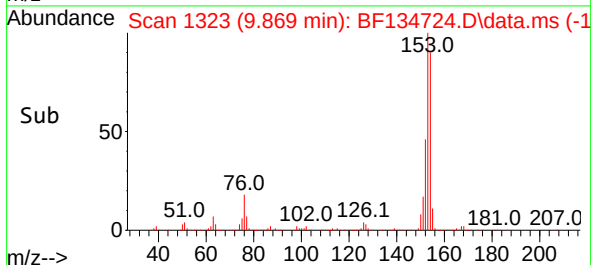
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

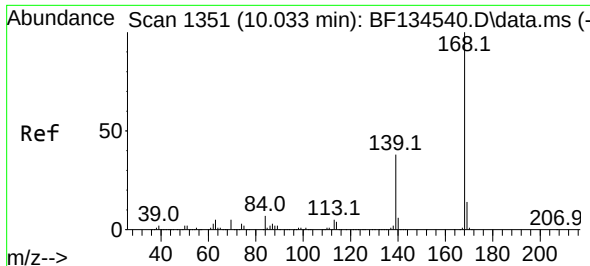


#52
Acenaphthene
Concen: 36.781 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.006 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23



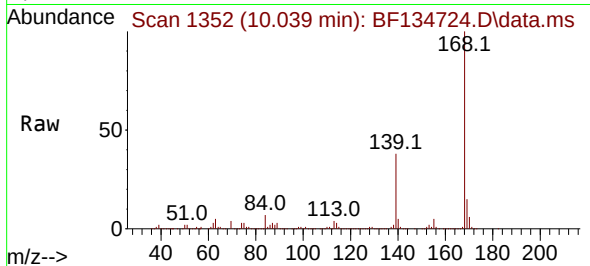
Tgt Ion:154 Resp: 626881
Ion Ratio Lower Upper
154 100
153 111.6 90.0 135.0
152 51.7 42.4 63.6





#55
Dibenzenofuran
Concen: 32.296 ng
RT: 10.039 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

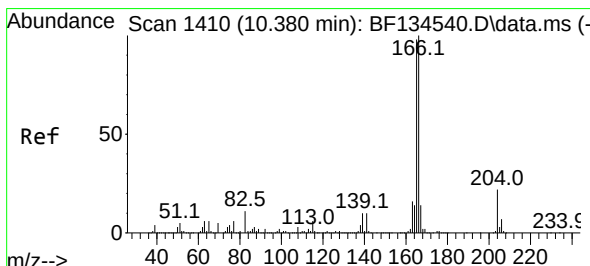
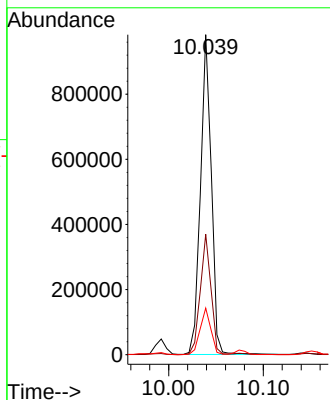
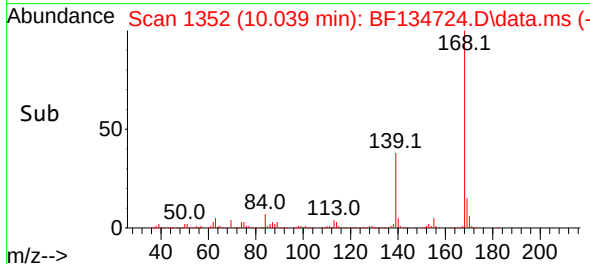
Instrument :
BNA_F
ClientSampleId :
WC-19



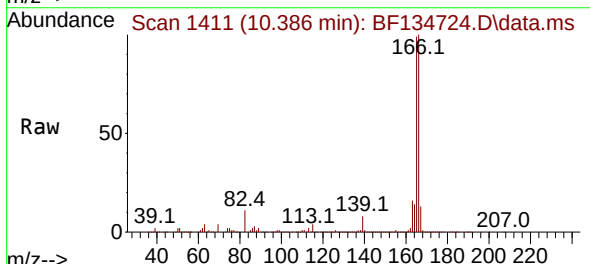
Tgt Ion:168 Resp: 783592
Ion Ratio Lower Upper
168 100
139 37.6 33.4 50.2
169 14.6 10.6 15.8

Manual Integrations
APPROVED

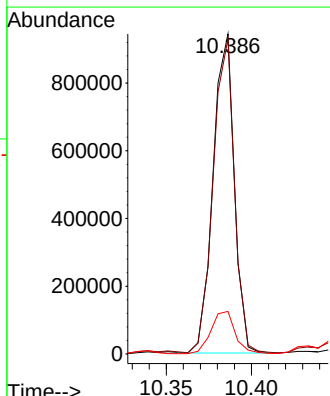
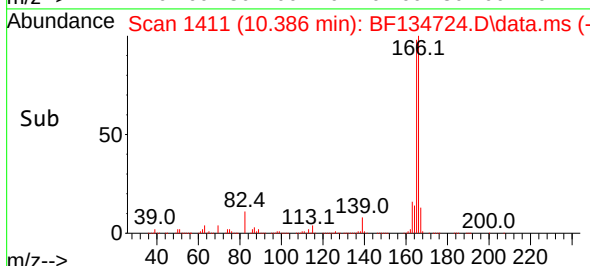
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

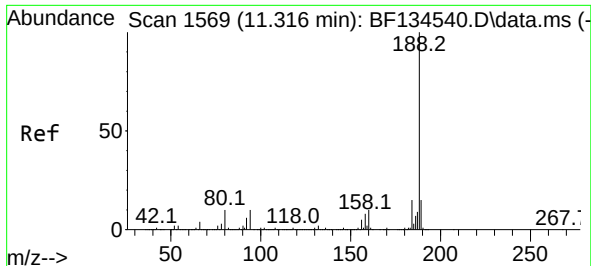


#58
Fluorene
Concen: 46.216 ng
RT: 10.386 min Scan# 1411
Delta R.T. -0.000 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23



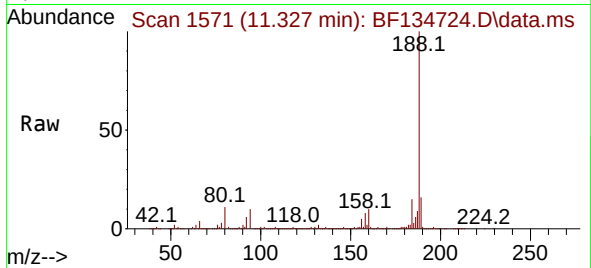
Tgt Ion:166 Resp: 816746
Ion Ratio Lower Upper
166 100
165 98.5 74.5 111.7
167 13.3 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1571
Delta R.T. 0.006 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

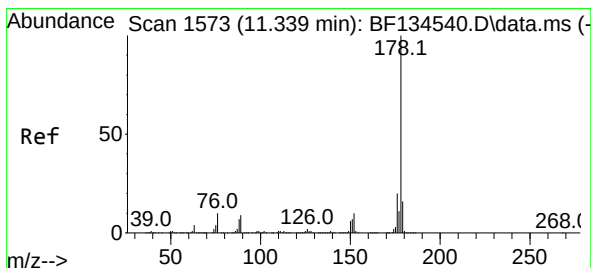
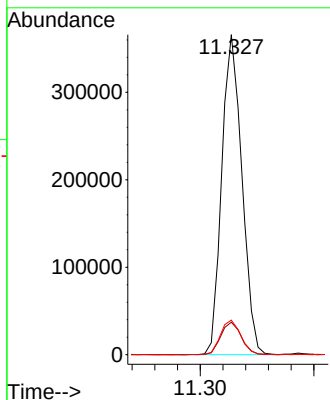
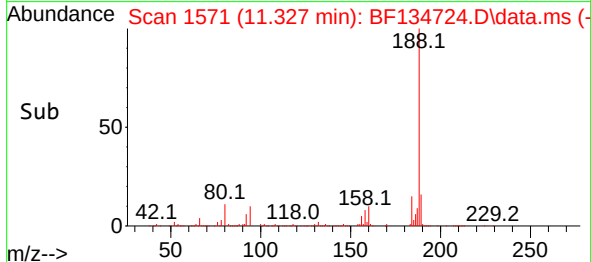
Instrument :
BNA_F
ClientSampleId :
WC-19



Tgt Ion:188 Resp: 451181
Ion Ratio Lower Upper
188 100
94 10.1 5.1 7.7
80 10.8 6.6 9.8

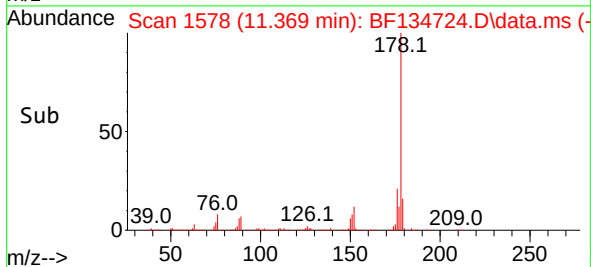
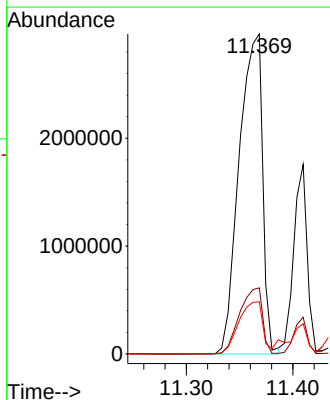
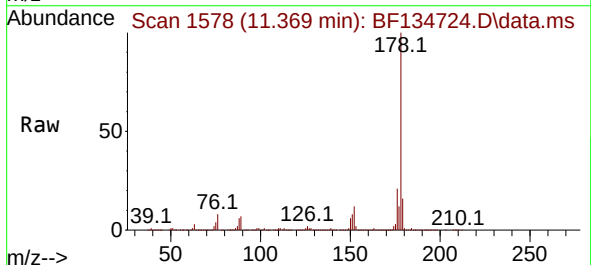
Manual Integrations
APPROVED

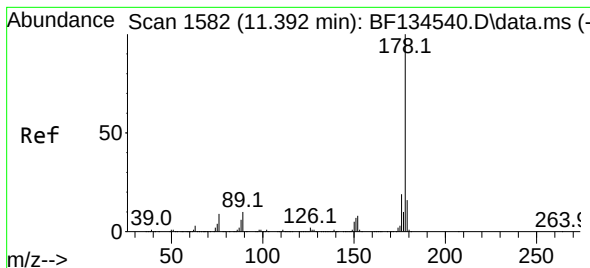
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#71
Phenanthrene
Concen: 188.671 ng
RT: 11.369 min Scan# 1578
Delta R.T. 0.018 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

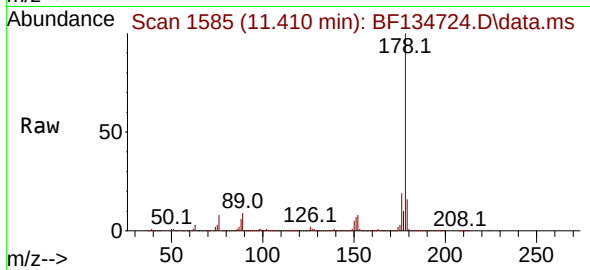
Tgt Ion:178 Resp: 4521488
Ion Ratio Lower Upper
178 100
176 20.7 15.8 23.6
179 16.3 12.7 19.1





#72
 Anthracene
 Concen: 60.774 ng
 RT: 11.410 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: BF134724.D
 Acq: 11 Aug 2023 10:23

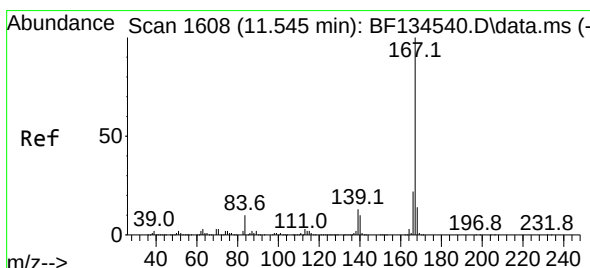
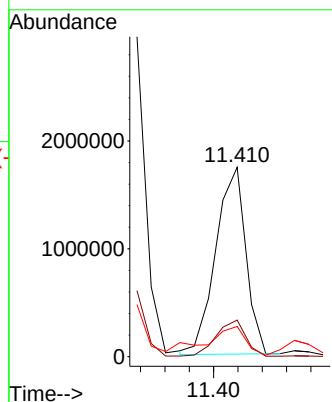
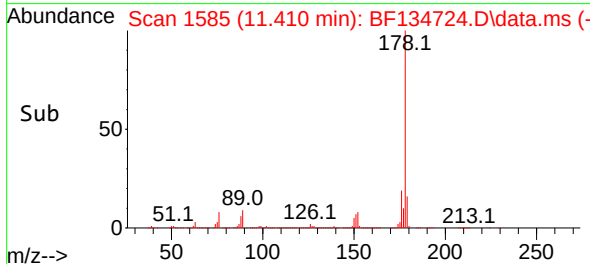
Instrument :
 BNA_F
 ClientSampleId :
 WC-19



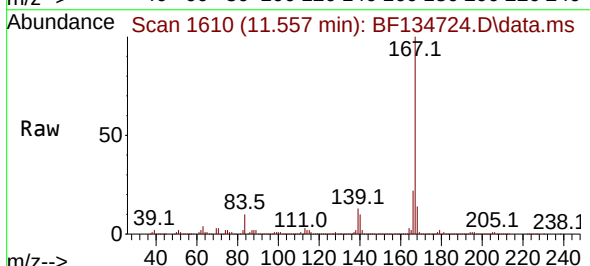
Tgt Ion:178 Resp: 1487690
 Ion Ratio Lower Upper
 178 100
 176 19.3 14.6 21.8
 179 15.9 12.3 18.5

Manual Integrations
 APPROVED

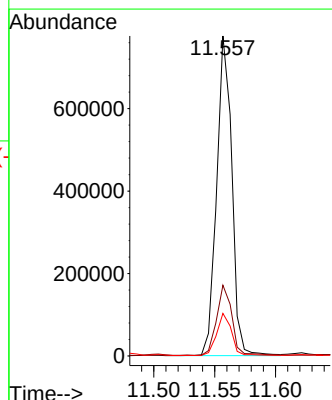
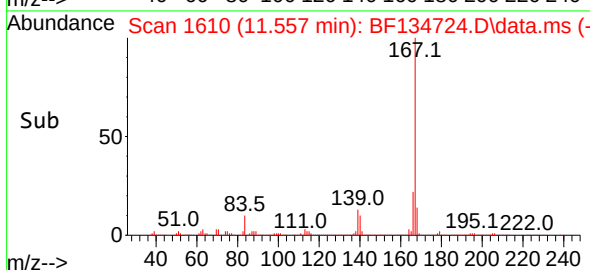
Reviewed By :Yogesh Patel 08/12/2023
 Supervised By :mohammad ahmed 08/12/2023

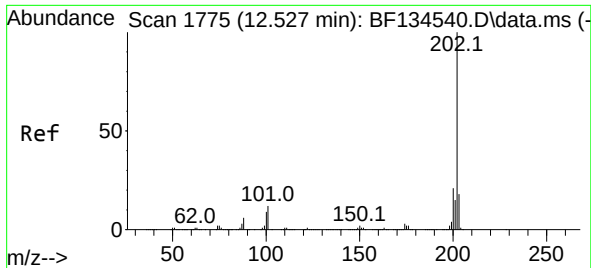


#73
 Carbazole
 Concen: 30.773 ng
 RT: 11.557 min Scan# 1610
 Delta R.T. -0.000 min
 Lab File: BF134724.D
 Acq: 11 Aug 2023 10:23



Tgt Ion:167 Resp: 672592
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.5 26.3
 139 13.3 11.0 16.4





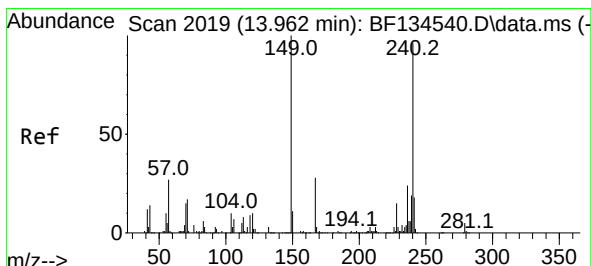
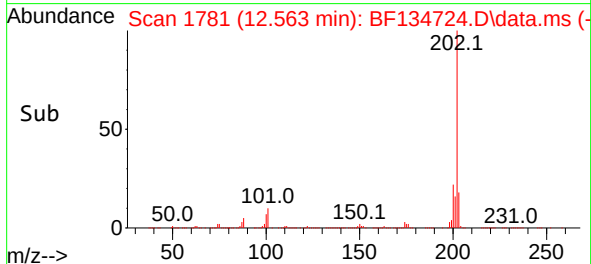
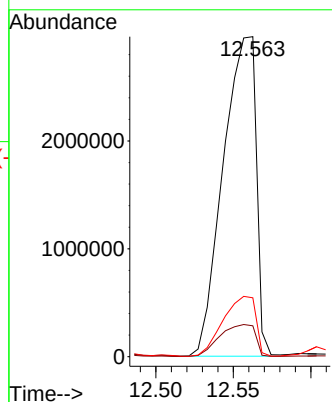
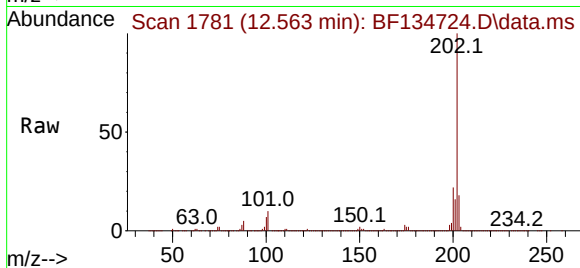
#75
Fluoranthene
Concen: 173.661 ng
RT: 12.563 min Scan# 11
Delta R.T. 0.023 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

Instrument :
BNA_F
ClientSampleId :
WC-19

Tgt Ion:202 Resp: 439614
Ion Ratio Lower Upper
202 100
101 9.6 0.0 28.5
203 18.4 0.0 37.5

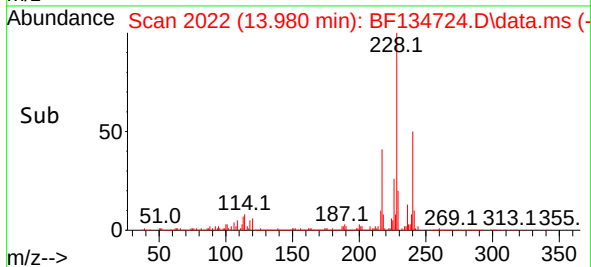
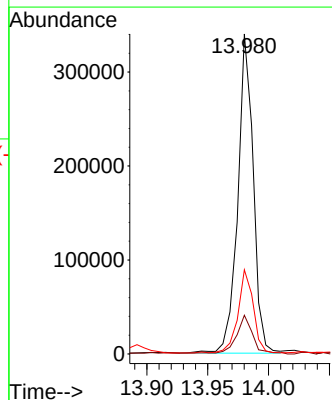
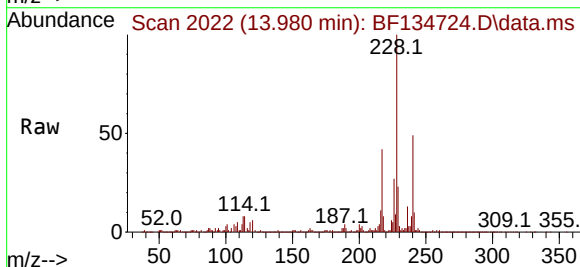
Manual Integrations
APPROVED

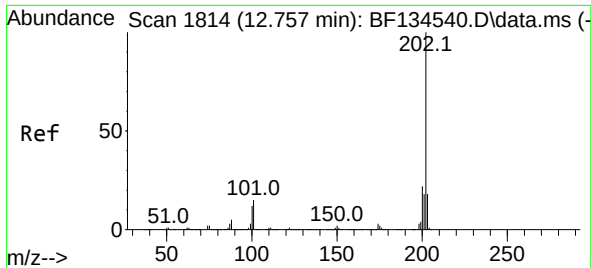
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. 0.006 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

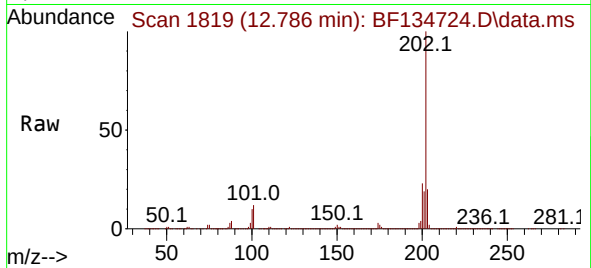
Tgt Ion:240 Resp: 300184
Ion Ratio Lower Upper
240 100
120 12.1 6.6 10.0#
236 26.3 20.2 30.2





#78
Pyrene
Concen: 159.151 ng
RT: 12.786 min Scan# 1819
Delta R.T. 0.018 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

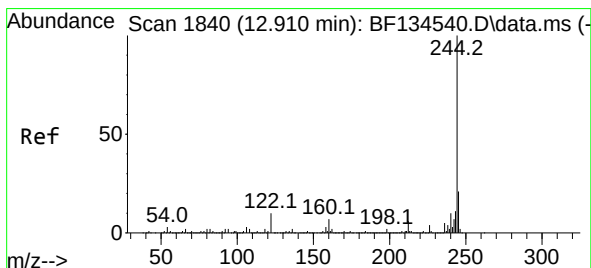
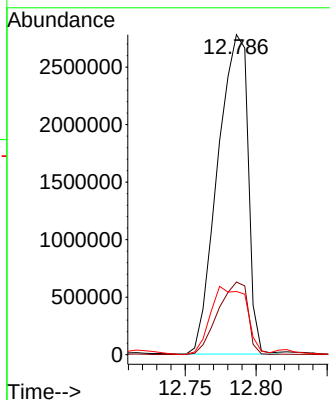
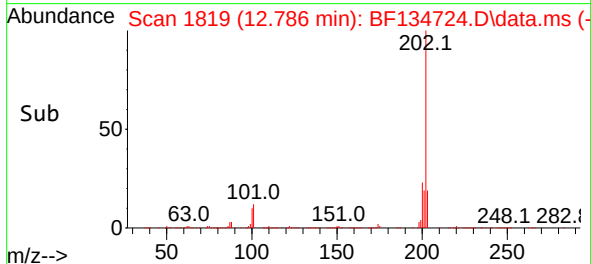
Instrument :
BNA_F
ClientSampleId :
WC-19



Tgt Ion:202 Resp: 413400
Ion Ratio Lower Upper
202 100
200 22.7 15.8 23.8
203 19.8 13.5 20.3

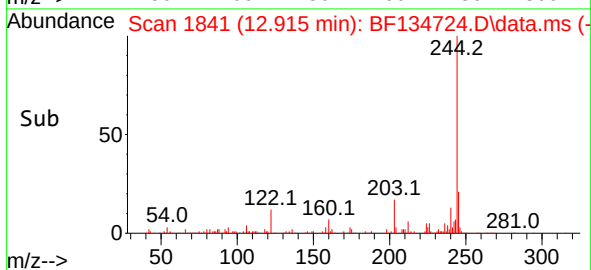
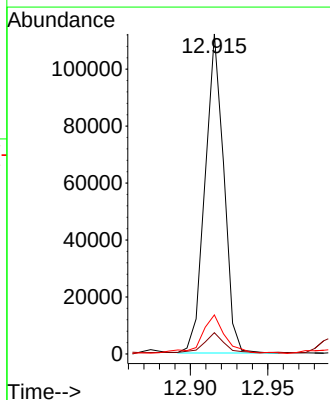
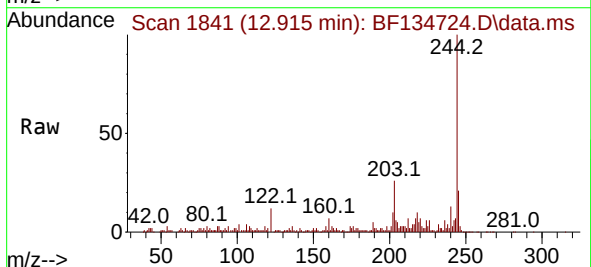
Manual Integrations
APPROVED

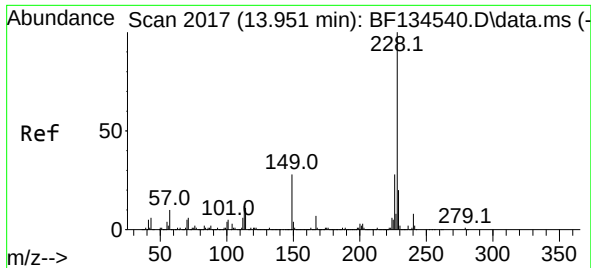
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#79
Terphenyl-d14
Concen: 5.529 ng
RT: 12.915 min Scan# 1841
Delta R.T. -0.006 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

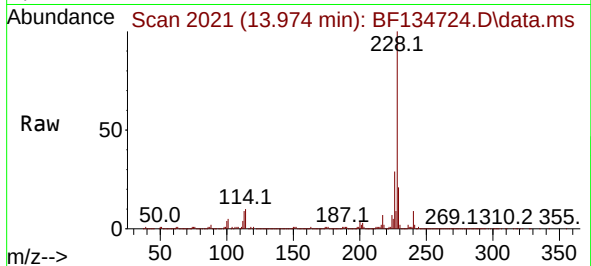
Tgt Ion:244 Resp: 94148
Ion Ratio Lower Upper
244 100
212 6.7 5.6 8.4
122 12.2 8.0 12.0#





#81
Benzo(a)anthracene
Concen: 96.075 ng
RT: 13.974 min Scan# 20
Delta R.T. 0.012 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

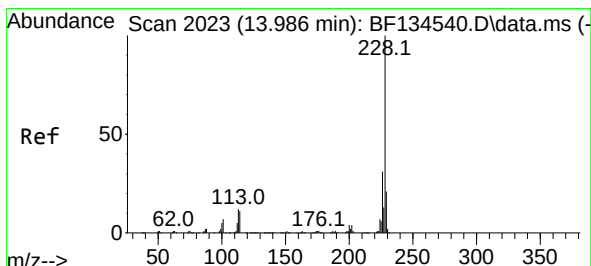
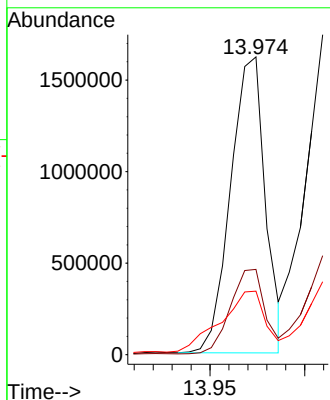
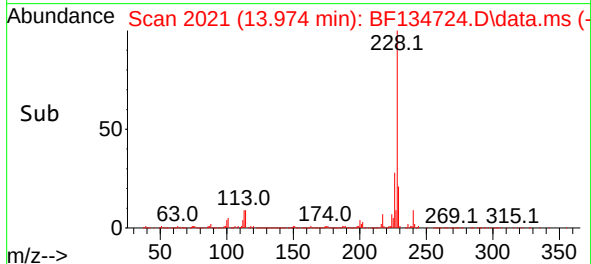
Instrument :
BNA_F
ClientSampleId :
WC-19



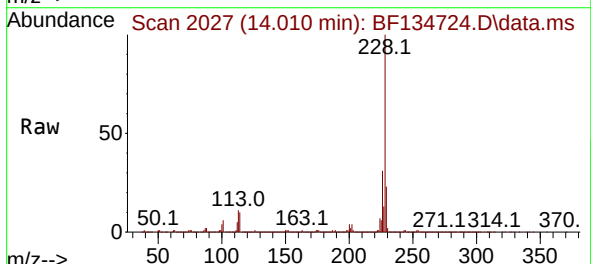
Tgt Ion:228 Resp: 2062215
Ion Ratio Lower Upper
228 100
226 28.6 22.3 33.5
229 21.3 15.8 23.6

Manual Integrations
APPROVED

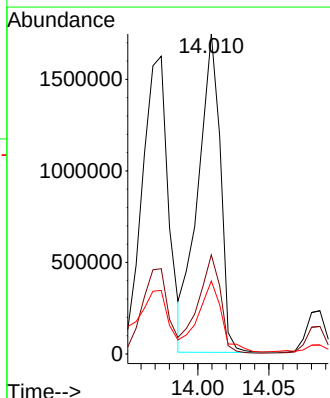
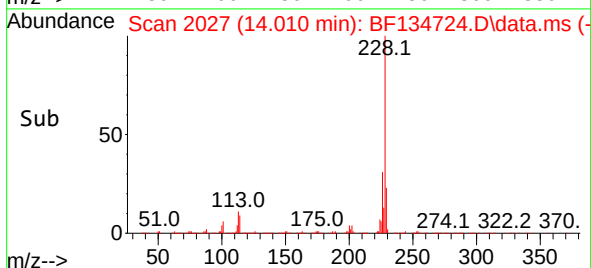
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

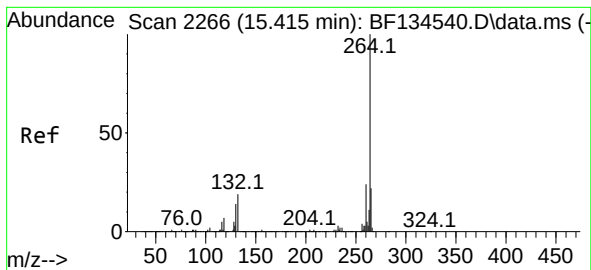


#83
Chrysene
Concen: 91.299 ng
RT: 14.010 min Scan# 2027
Delta R.T. 0.012 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23



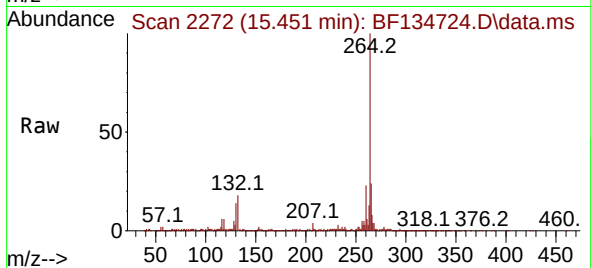
Tgt Ion:228 Resp: 1909255
Ion Ratio Lower Upper
228 100
226 31.0 24.5 36.7
229 22.8 15.8 23.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

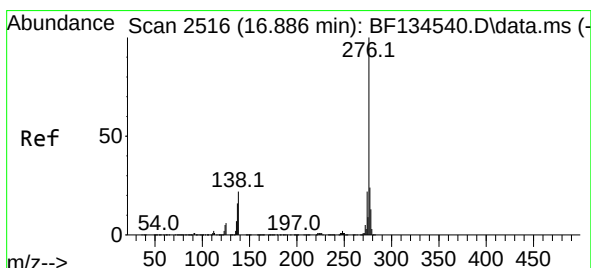
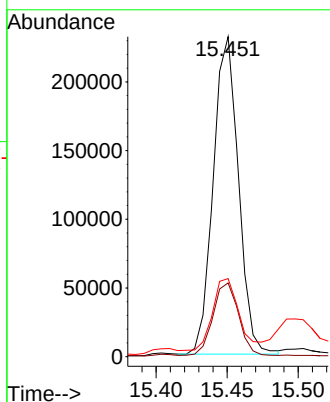
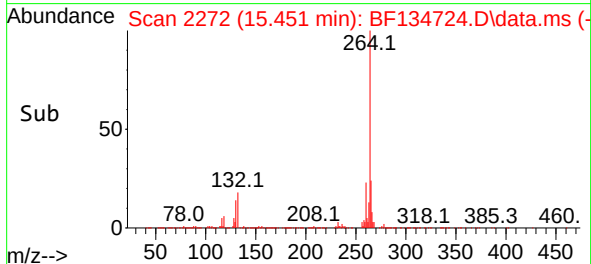
Instrument :
BNA_F
ClientSampleId :
WC-19



Tgt Ion:264 Resp: 285084
Ion Ratio Lower Upper
264 100
260 23.1 18.4 27.6
265 24.4 15.8 23.8

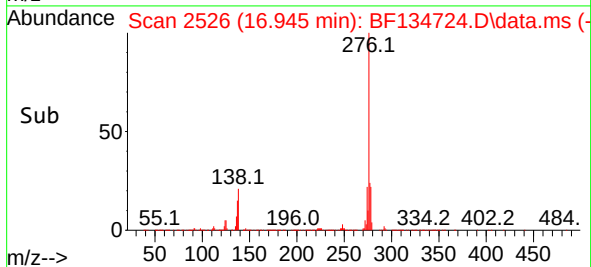
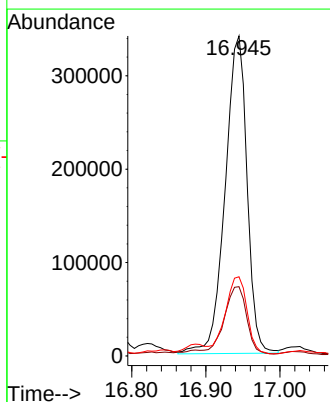
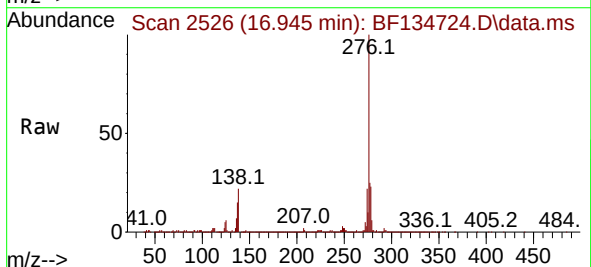
Manual Integrations
APPROVED

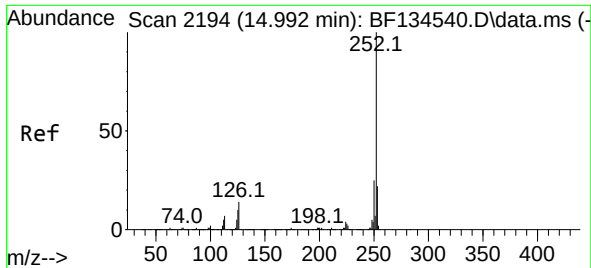
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 41.670 ng
RT: 16.945 min Scan# 2526
Delta R.T. 0.018 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

Tgt Ion:276 Resp: 698659
Ion Ratio Lower Upper
276 100
138 22.6 14.2 21.4#
277 24.2 19.9 29.9





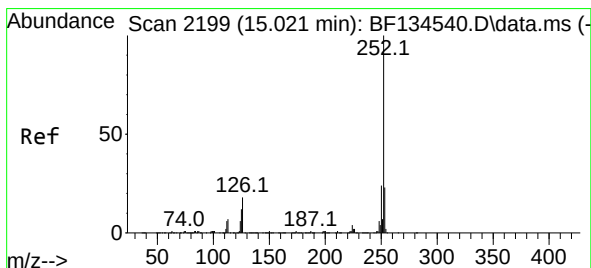
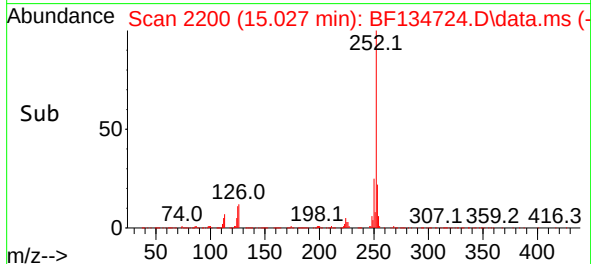
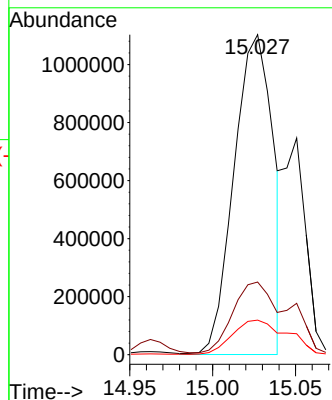
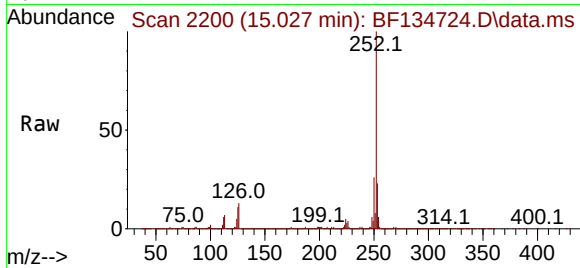
#88
Benzo(b)fluoranthene
Concen: 103.937 ng m
RT: 15.027 min Scan# 2194
Delta R.T. 0.018 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

Instrument :
BNA_F
ClientSampleId :
WC-19

Tgt Ion:252 Resp: 180714
Ion Ratio Lower Upper
252 100
253 22.7 17.3 25.9
125 10.8 6.0 9.0

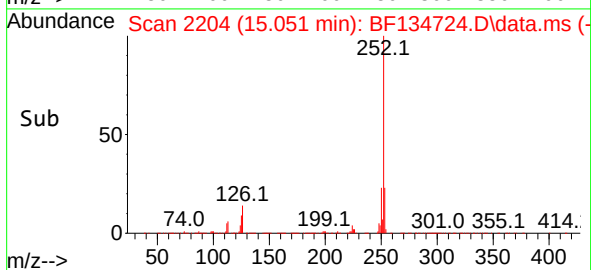
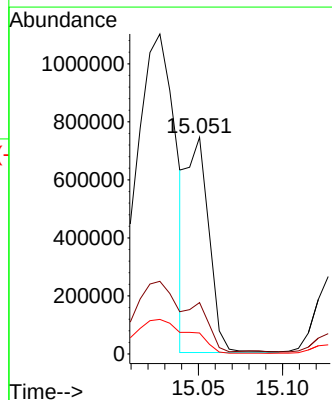
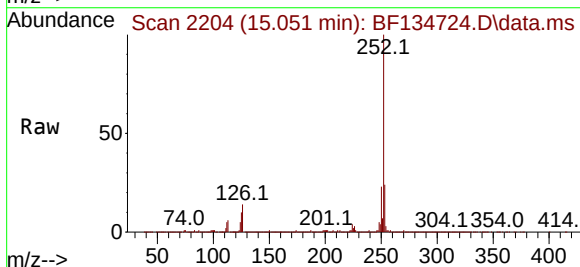
Manual Integrations
APPROVED

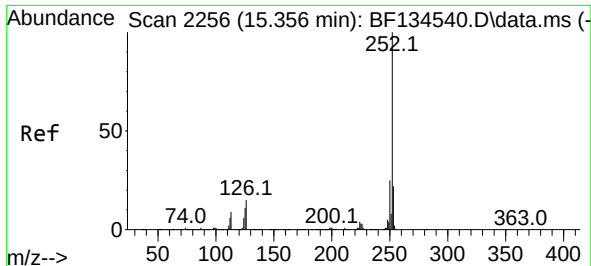
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023



#89
Benzo(k)fluoranthene
Concen: 38.620 ng m
RT: 15.051 min Scan# 2204
Delta R.T. 0.012 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

Tgt Ion:252 Resp: 668916
Ion Ratio Lower Upper
252 100
253 23.7 17.9 26.9
125 9.7 6.3 9.5





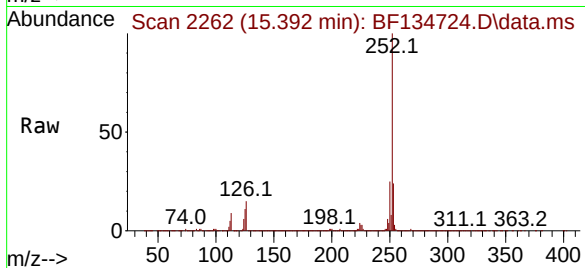
#90
Benzo(a)pyrene
Concen: 81.821 ng
RT: 15.392 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23

Instrument :

BNA_F

ClientSampleId :

WC-19

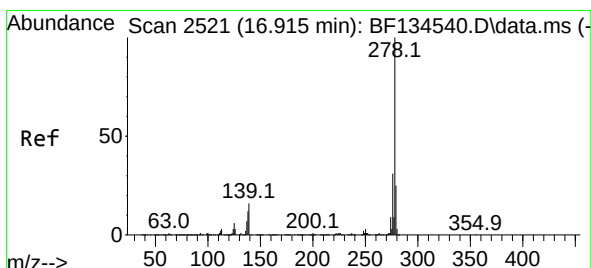
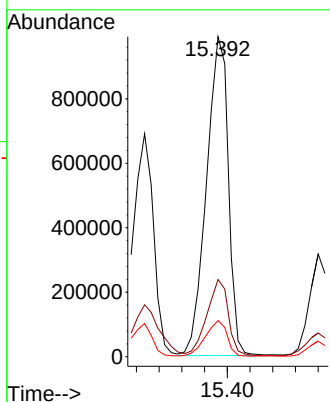
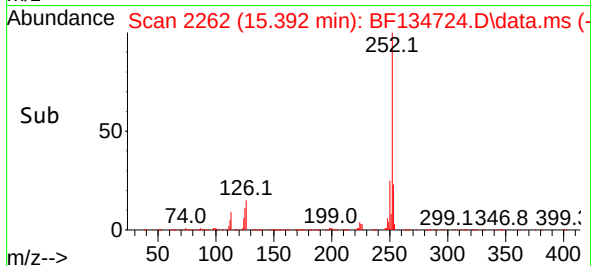


Tgt Ion:252 Resp: 1326425
Ion Ratio Lower Upper
252 100
253 24.1 17.0 25.4
125 11.3 6.2 9.4

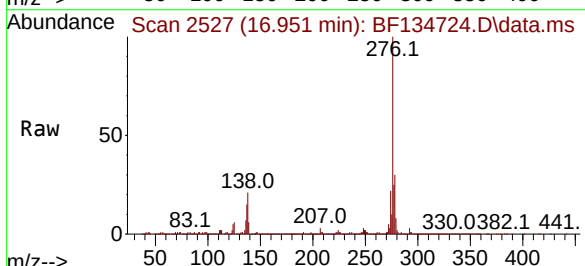
Manual Integrations

APPROVED

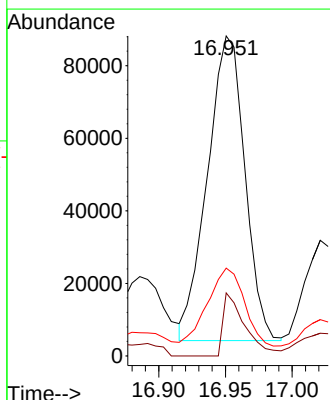
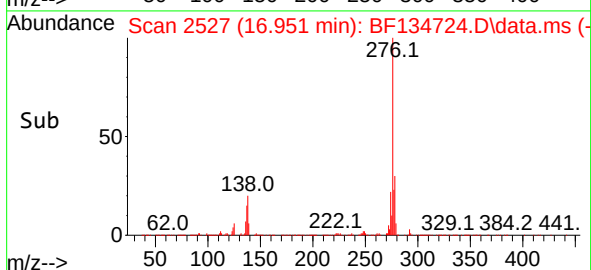
Reviewed By :Yogesh Patel 08/12/2023
Supervised By :mohammad ahmed 08/12/2023

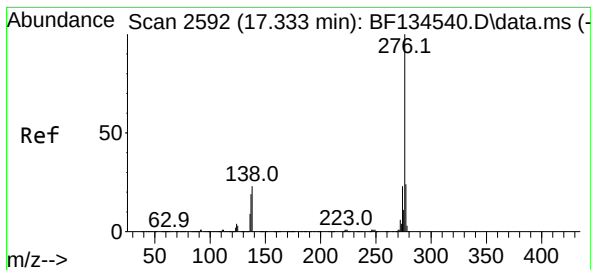


#91
Dibenzo(a,h)anthracene
Concen: 12.105 ng m
RT: 16.951 min Scan# 2527
Delta R.T. -0.000 min
Lab File: BF134724.D
Acq: 11 Aug 2023 10:23



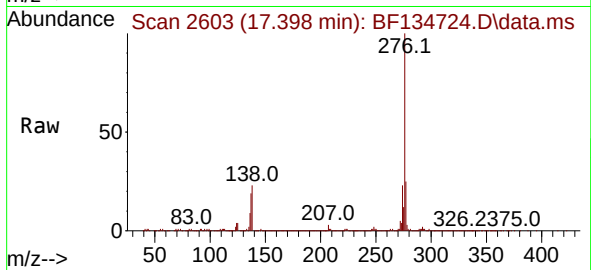
Tgt Ion:278 Resp: 164025
Ion Ratio Lower Upper
278 100
139 19.7 10.0 15.0#
279 27.5 19.7 29.5





#92
 Benzo(g,h,i)perylene
 Concen: 47.472 ng
 RT: 17.398 min Scan# 20
 Delta R.T. 0.023 min
 Lab File: BF134724.D
 Acq: 11 Aug 2023 10:23

Instrument :
 BNA_F
 ClientSampleId :
 WC-19



Tgt Ion:	276	Resp:	656149
Ion Ratio	Lower	Upper	
276	100		
277	25.3	19.0	28.6
138	23.1	12.2	18.2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/12/2023
 Supervised By :mohammad ahmed 08/12/2023

