

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082123\
 Data File : BF134877.D
 Acq On : 21 Aug 2023 20:21
 Operator : CG\JU
 Sample : 04047-01DL 100X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB05-Z26-27DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/22/2023
 Supervised By :mohammad ahmed 08/22/2023

Quant Time: Aug 22 03:23:48 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	6.792	152	179598	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	705093	20.000	ng	# 0.00
39) Acenaphthene-d10	9.828	164	320182	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	477106	20.000	ng	# 0.00
76) Chrysene-d12	13.968	240	373902	20.000	ng	# 0.00
86) Perylene-d12	15.439	264	304284	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	7340	0.621	ng	-0.01
7) Phenol-d6	6.422	99	9666	0.640	ng	-0.02
23) Nitrobenzene-d5	7.345	82	7369	0.653	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	1311	0.402	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	13861	0.720	ng	-0.02
79) Terphenyl-d14	12.904	244	12039	0.568	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.110	128	4306270	121.520	ng	98
37) 2-Methylnaphthalene	8.792	142	1416640	60.311	ng	97
38) 1-Methylnaphthalene	8.886	142	922667	42.243	ng	97
46) 1,1'-Biphenyl	9.245	154	228637	9.183	ng	97
49) Acenaphthylene	9.686	152	92804	3.165	ng	# 91
52) Acenaphthene	9.863	154	589007	30.993	ng	98
58) Fluorene	10.375	166	290560	14.745	ng	96
71) Phenanthrene	11.345	178	1041276	41.089	ng	99
72) Anthracene	11.392	178	314195	12.138	ng	100
75) Fluoranthene	12.533	202	386688	14.445	ng	98
78) Pyrene	12.763	202	606603	18.749	ng	98
81) Benzo(a)anthracene	13.957	228	208742m	7.808	ng	
83) Chrysene	13.992	228	187135	7.184	ng	98
87) Indeno(1,2,3-cd)pyrene	16.915	276	36245	2.025	ng	97
88) Benzo(b)fluoranthene	15.004	252	101962m	5.494	ng	
89) Benzo(k)fluoranthene	15.021	252	38914m	2.105	ng	
90) Benzo(a)pyrene	15.368	252	119982	6.934	ng	# 94
92) Benzo(g,h,i)perylene	17.362	276	37789	2.561	ng	# 95

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

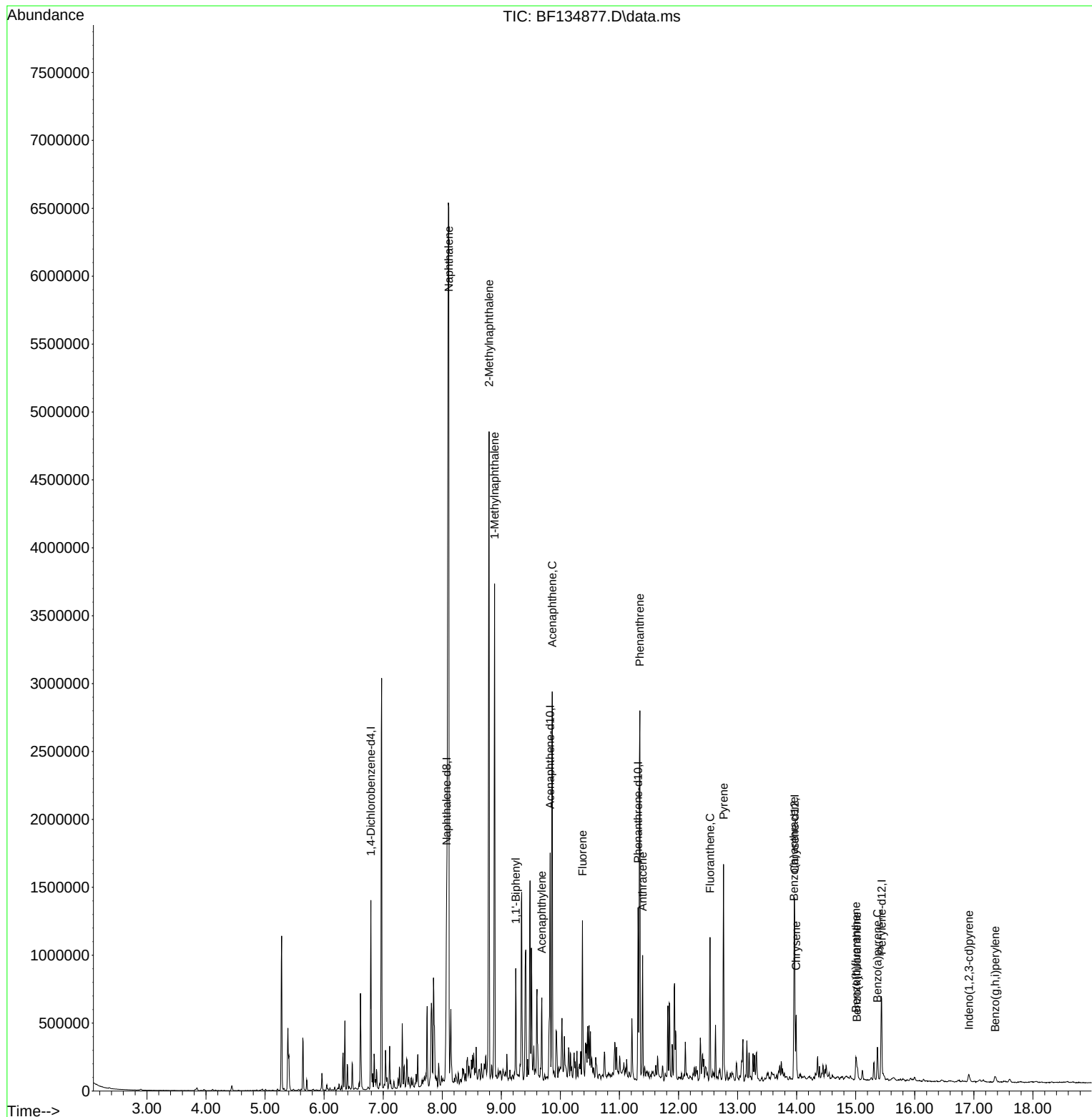
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082123\
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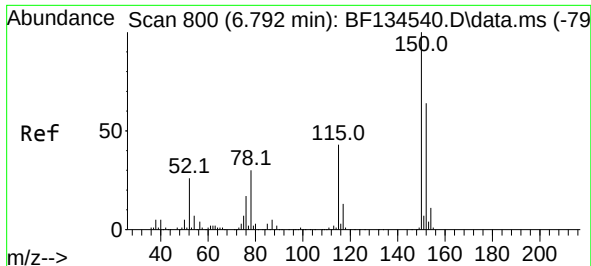
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Quant Time: Aug 22 03:23:48 2023
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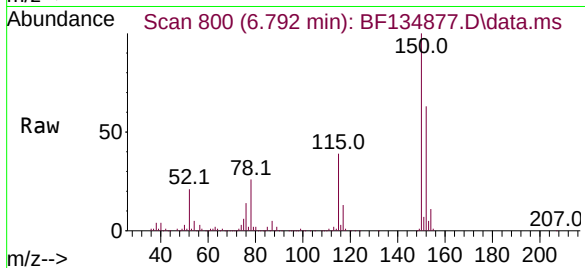
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

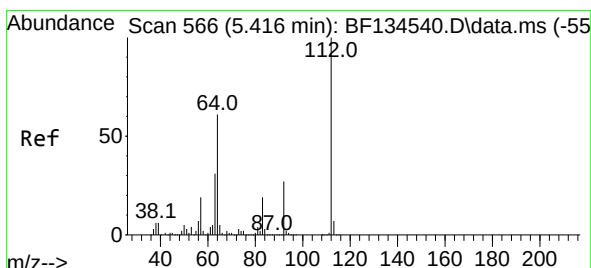
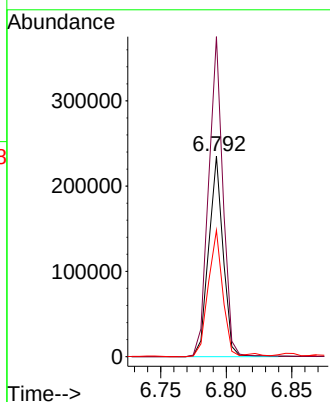
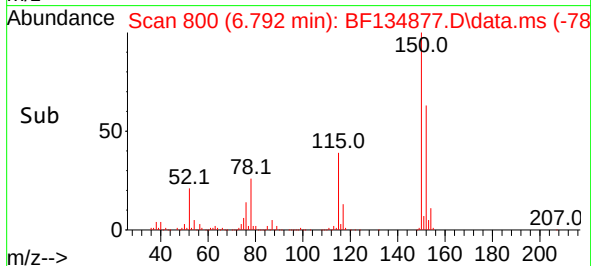
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z26-27DL



Tgt Ion:152 Resp: 179598
Ion Ratio Lower Upper
152 100
150 159.6 128.3 192.5
115 63.0 52.4 78.6

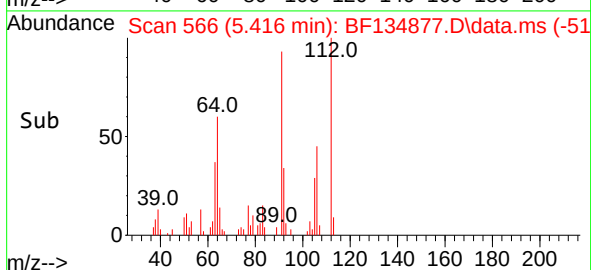
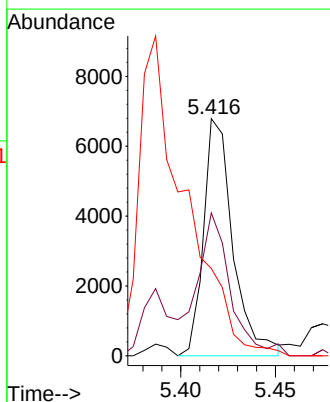
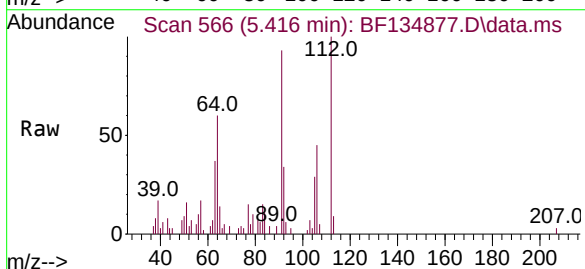
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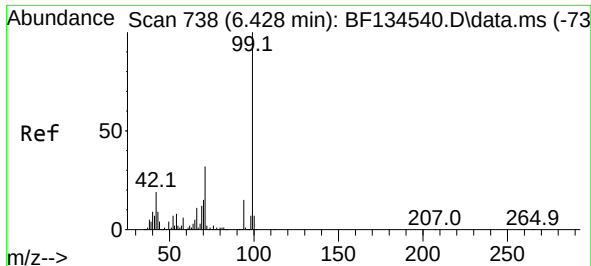
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023



#5
2-Fluorophenol
Concen: 0.621 ng
RT: 5.416 min Scan# 566
Delta R.T. -0.012 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

Tgt Ion:112 Resp: 7340
Ion Ratio Lower Upper
112 100
64 60.3 44.9 67.3
63 36.9 25.4 38.0





#7

Phenol-d6

Concen: 0.640 ng

RT: 6.422 min Scan# 738

Delta R.T. -0.018 min

Lab File: BF134877.D

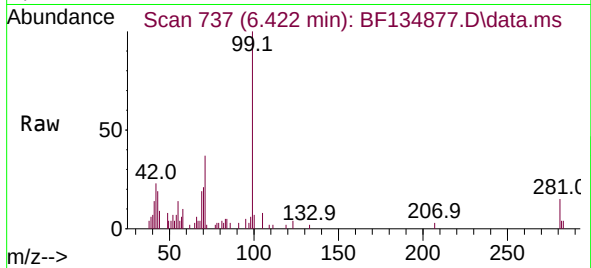
Acq: 21 Aug 2023 20:21

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z26-27DL



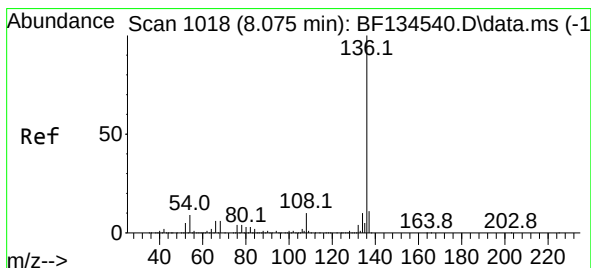
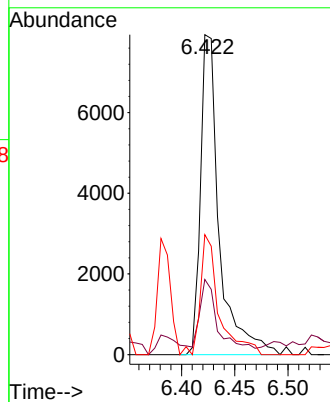
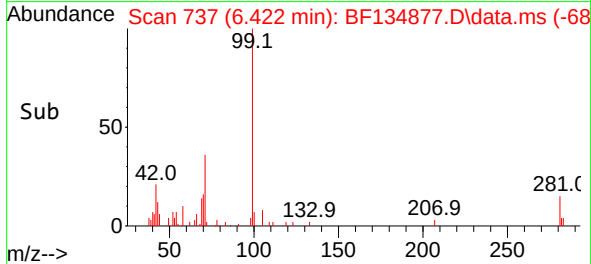
Tgt Ion:	99	Resp:	966
Ion Ratio	100	Lower	Upper
99	100		
42	23.5	18.7	28.1
71	37.5	36.4	54.6

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.000 ng

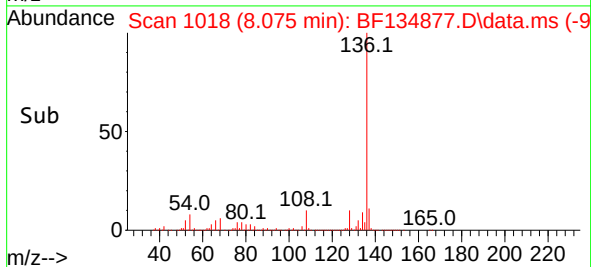
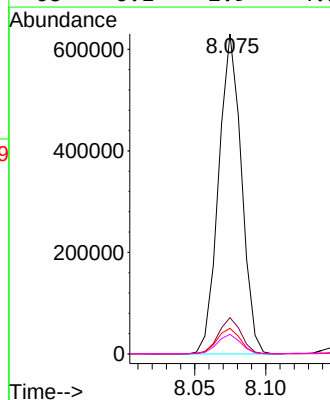
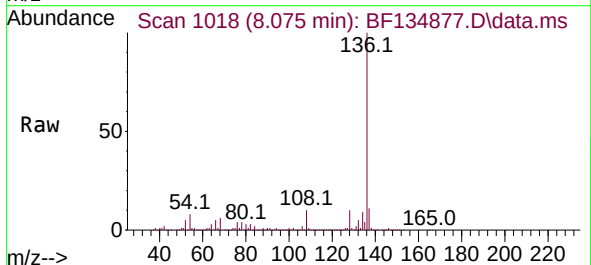
RT: 8.075 min Scan# 1018

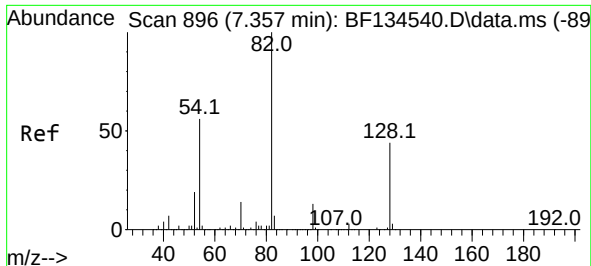
Delta R.T. -0.006 min

Lab File: BF134877.D

Acq: 21 Aug 2023 20:21

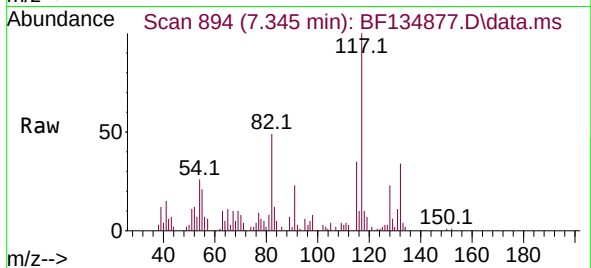
Tgt Ion:	136	Resp:	705093
Ion Ratio	100	Lower	Upper
136	100		
137	11.3	8.4	12.6
54	8.0	5.2	7.8#
68	6.1	2.9	4.3#





#23
Nitrobenzene-d5
Concen: 0.653 ng
RT: 7.345 min Scan# 896
Delta R.T. -0.023 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

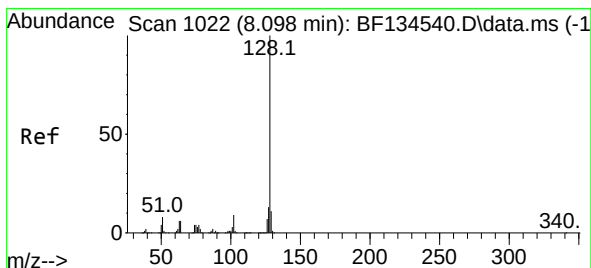
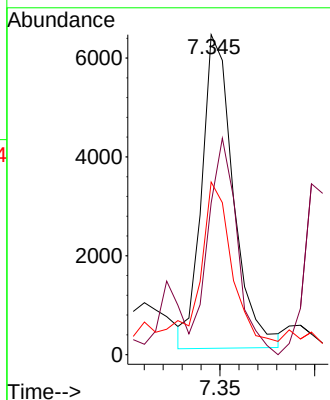
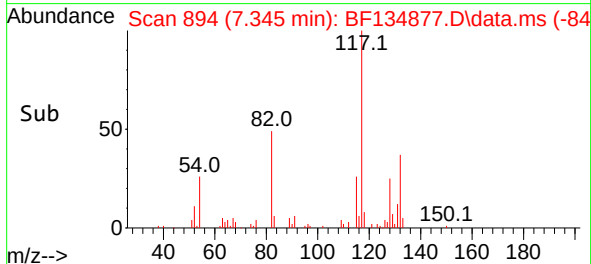
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z26-27DL



Tgt Ion: 82 Resp: 7369
Ion Ratio Lower Upper
82 100
128 47.4 34.3 51.5
54 53.9 43.8 65.6

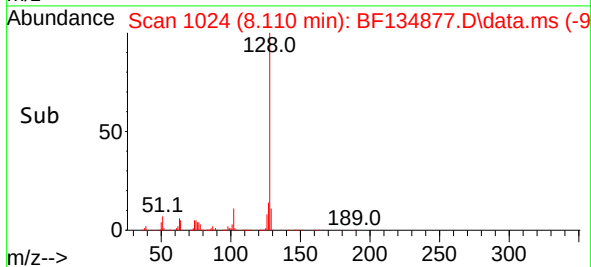
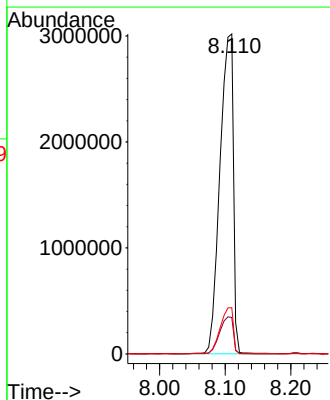
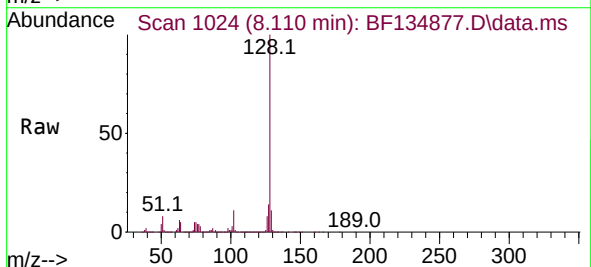
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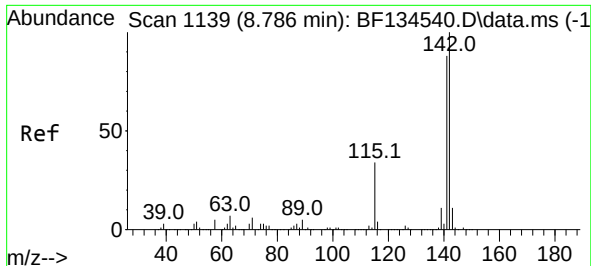
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023



#31
Naphthalene
Concen: 121.520 ng
RT: 8.110 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

Tgt Ion:128 Resp: 4306270
Ion Ratio Lower Upper
128 100
129 11.4 8.4 12.6
127 14.4 10.7 16.1





#37

2-Methylnaphthalene

Concen: 60.311 ng

RT: 8.792 min Scan# 1139

Delta R.T. 0.000 min

Lab File: BF134877.D

Acq: 21 Aug 2023 20:21

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z26-27DL

Tgt Ion:142 Resp: 1416640

Ion Ratio Lower Upper

142 100

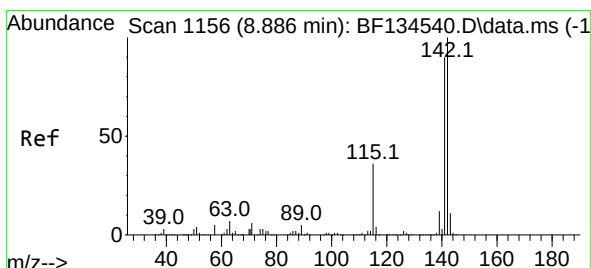
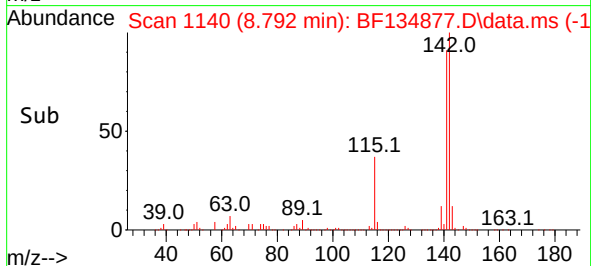
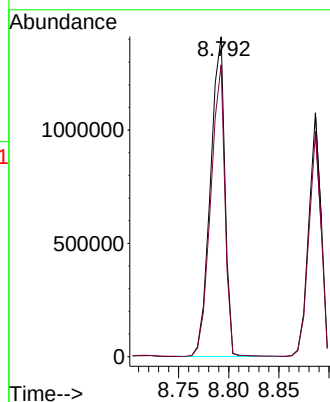
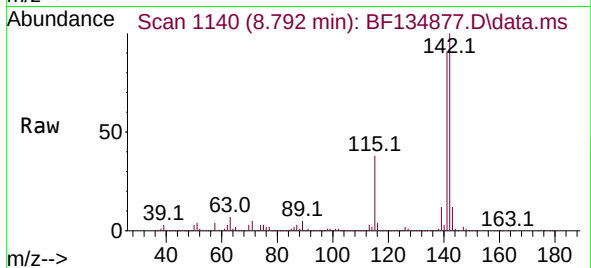
141 91.2 70.8 106.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/22/2023

Supervised By :mohammad ahmed 08/22/2023



#38

1-Methylnaphthalene

Concen: 42.243 ng

RT: 8.886 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF134877.D

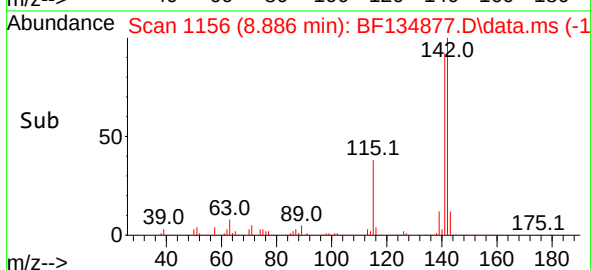
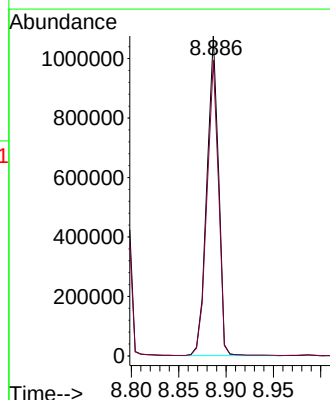
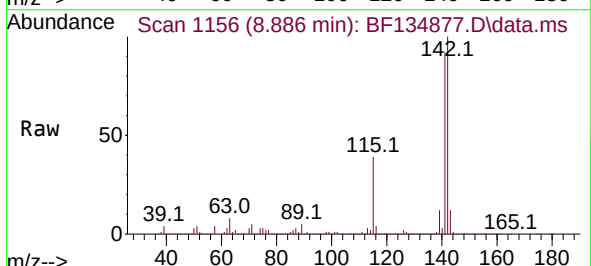
Acq: 21 Aug 2023 20:21

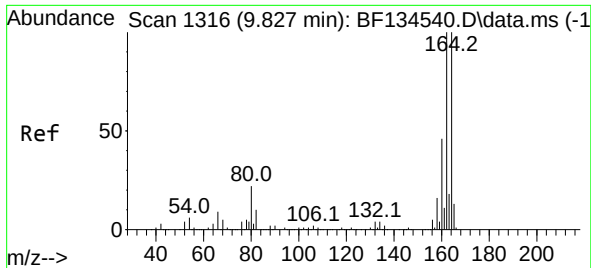
Tgt Ion:142 Resp: 922667

Ion Ratio Lower Upper

142 100

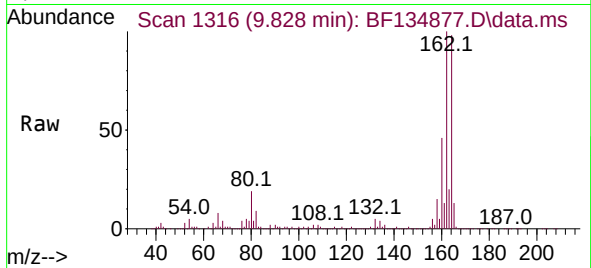
141 92.3 71.4 107.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1316
Delta R.T. -0.006 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

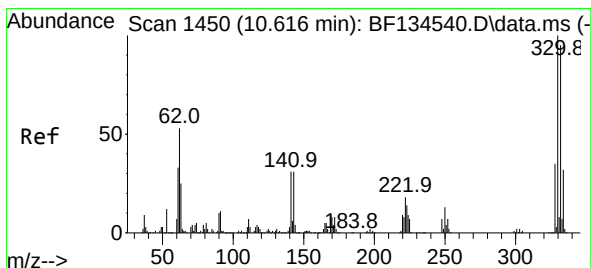
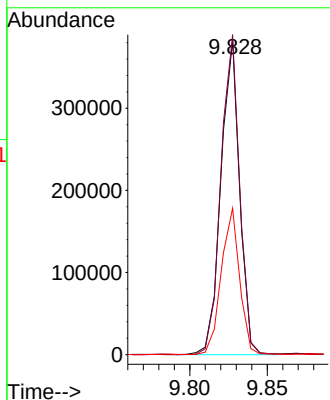
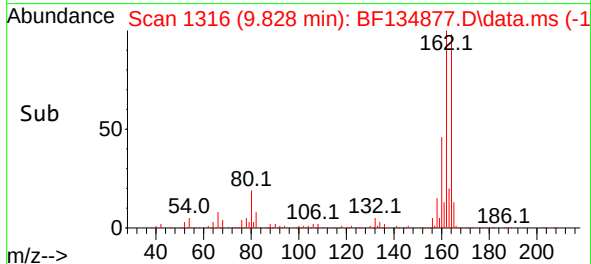
Instrument :
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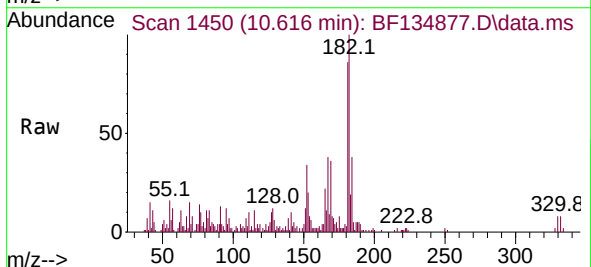
Tgt Ion:164 Resp: 320182
Ion Ratio Lower Upper
164 100
162 101.9 82.6 123.8
160 46.6 37.2 55.8

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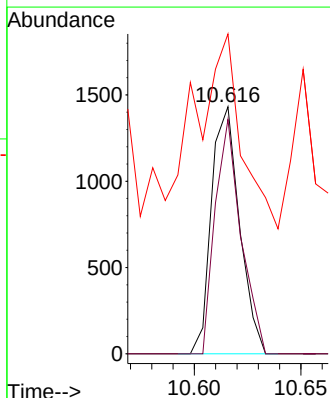
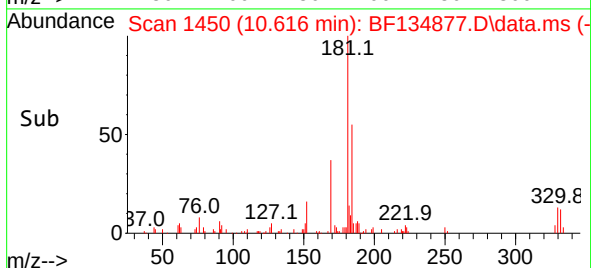
Reviewed By :Yogesh Patel 08/22/2023
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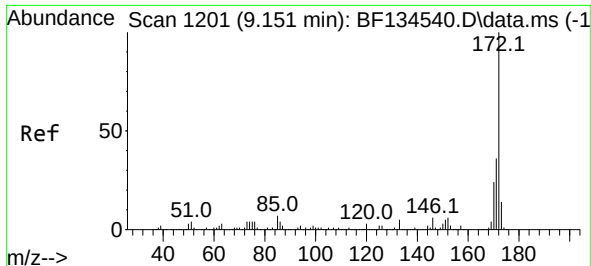


#42
2,4,6-Tribromophenol
Concen: 0.402 ng
RT: 10.616 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21



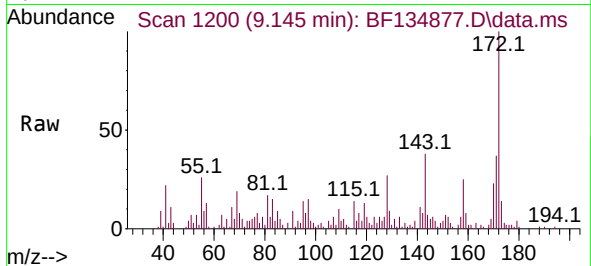
Tgt Ion:330 Resp: 1311
Ion Ratio Lower Upper
330 100
332 87.0 78.8 118.2
141 124.9 25.4 38.2#





#45
2-Fluorobiphenyl
Concen: 0.720 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

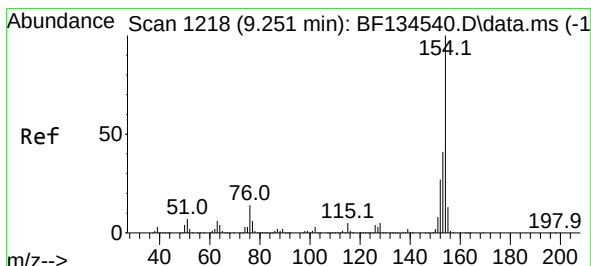
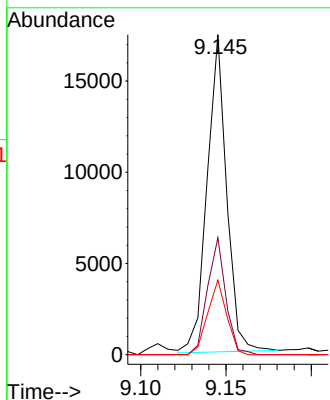
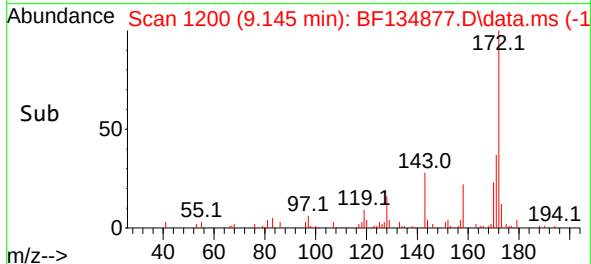
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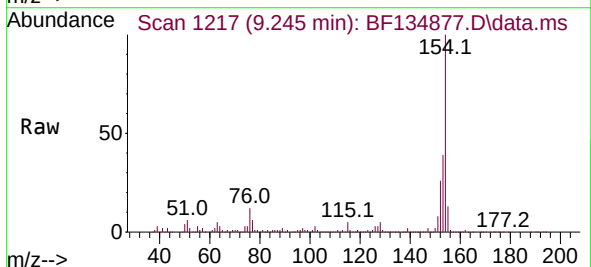
Tgt Ion:172 Resp: 1386
Ion Ratio Lower Upper
172 100
171 36.5 28.8 43.2
170 23.3 18.7 28.1

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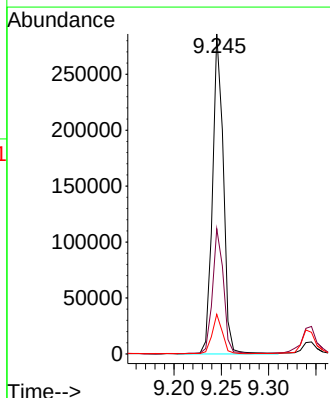
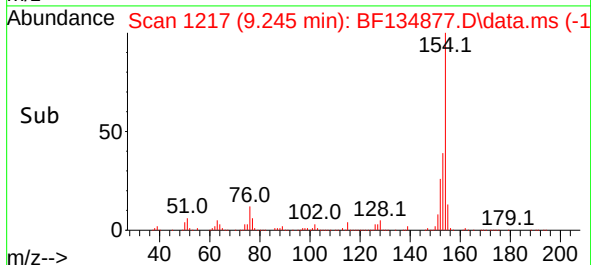
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023

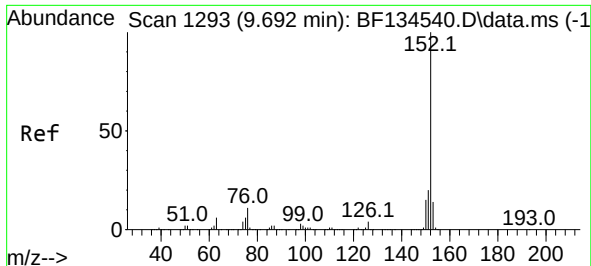


#46
1,1'-Biphenyl
Concen: 9.183 ng
RT: 9.245 min Scan# 1217
Delta R.T. -0.018 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21



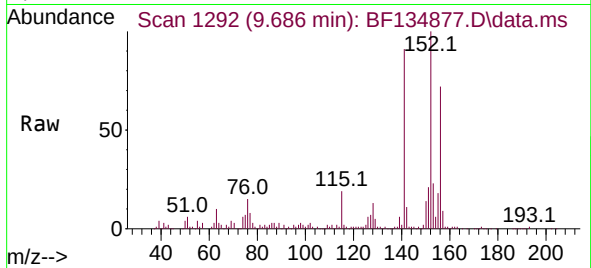
Tgt Ion:154 Resp: 228637
Ion Ratio Lower Upper
154 100
153 39.1 20.8 60.8
76 12.4 0.0 30.2





#49
Acenaphthylene
Concen: 3.165 ng
RT: 9.686 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

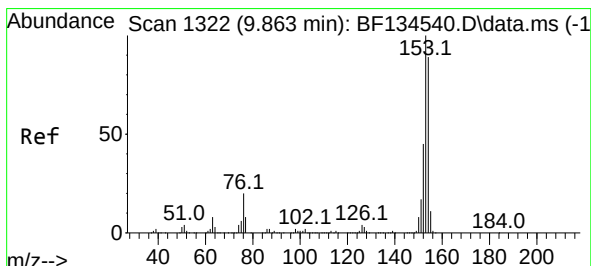
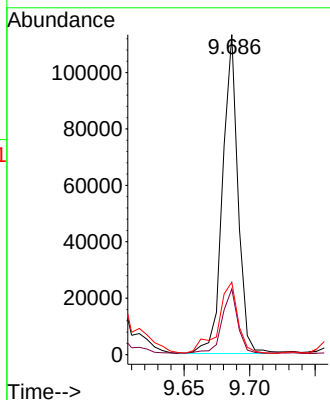
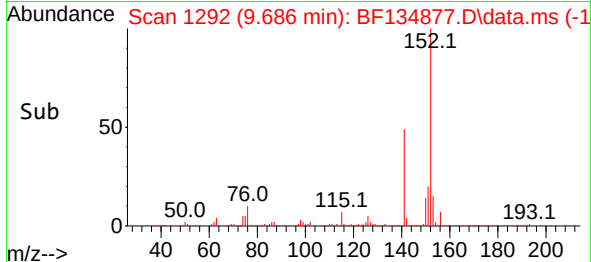
Instrument :
BNA_F
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NEVINS-SB05-Z26-27DL



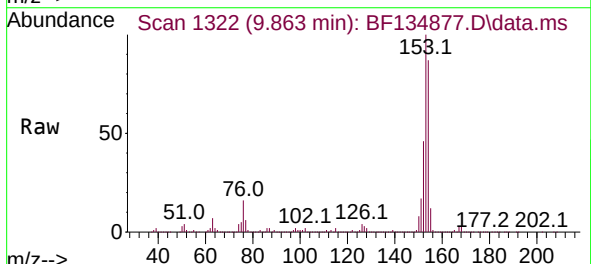
Tgt Ion:152 Resp: 92804
Ion Ratio Lower Upper
152 100
151 20.5 16.4 24.6
153 22.6 10.9 16.3

Manual Integrations
APPROVED

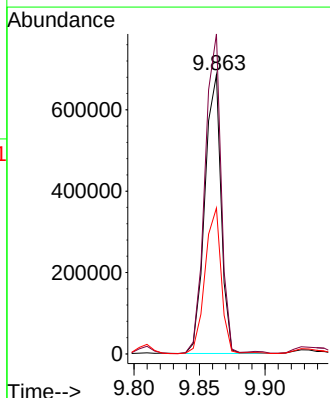
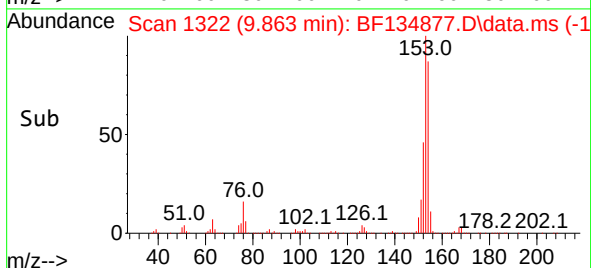
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023

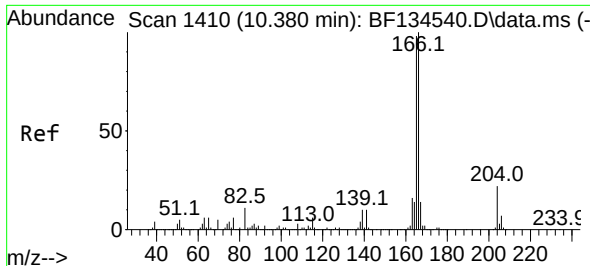


#52
Acenaphthene
Concen: 30.993 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.012 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21



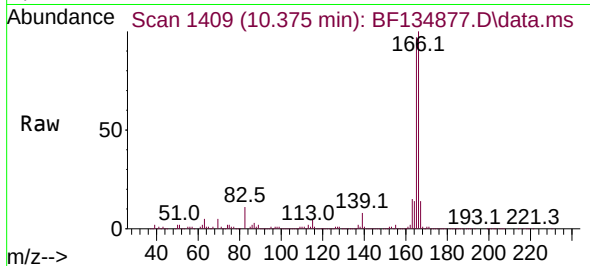
Tgt Ion:154 Resp: 589007
Ion Ratio Lower Upper
154 100
153 114.6 90.0 135.0
152 52.3 42.4 63.6





#58
Fluorene
Concen: 14.745 ng
RT: 10.375 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

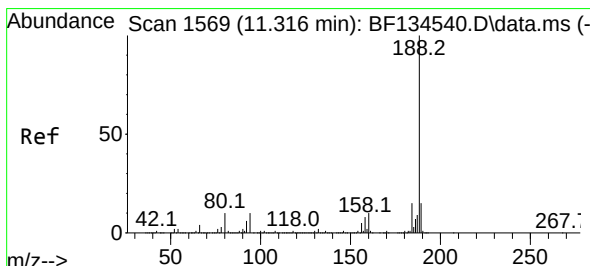
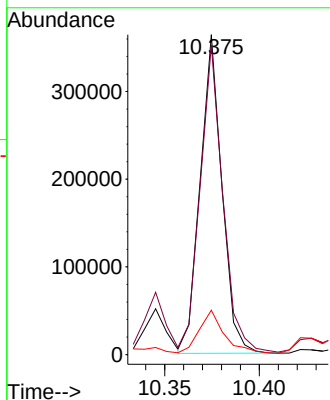
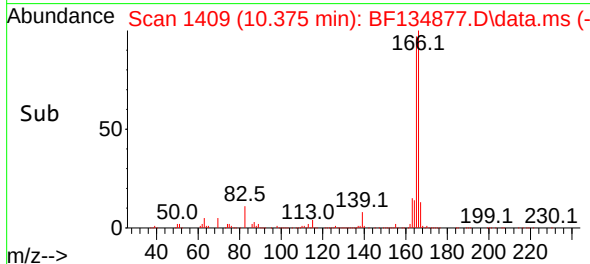
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z26-27DL



Tgt Ion:166 Resp: 290560
Ion Ratio Lower Upper
166 100
165 96.8 74.5 111.7
167 13.9 10.6 16.0

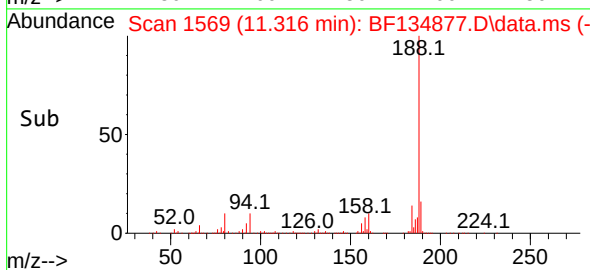
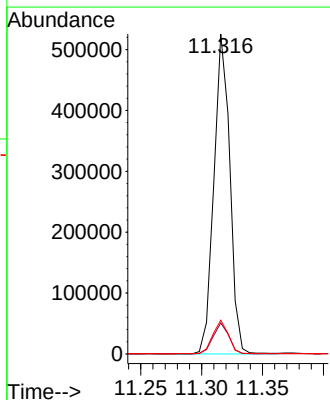
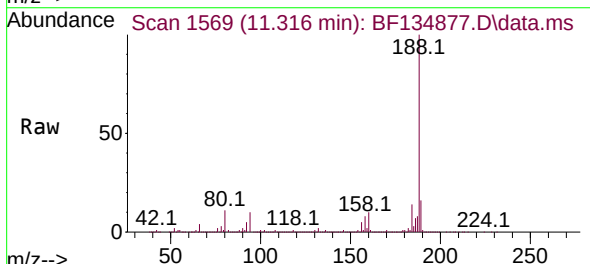
Manual Integrations
APPROVED

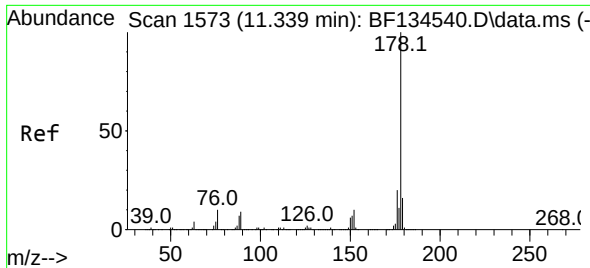
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

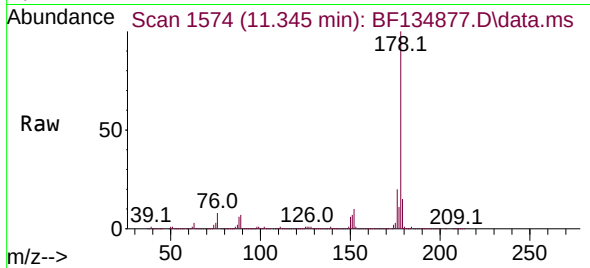
Tgt Ion:188 Resp: 477106
Ion Ratio Lower Upper
188 100
94 9.7 5.1 7.7#
80 10.5 6.6 9.8#





#71
Phenanthrene
Concen: 41.089 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

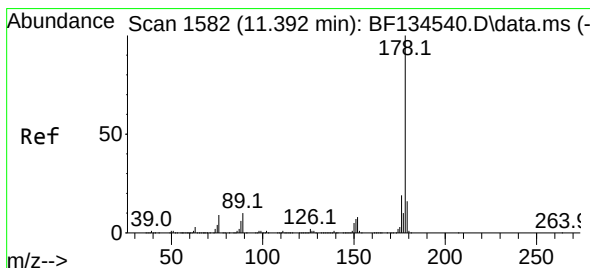
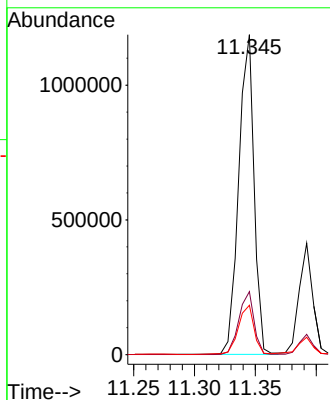
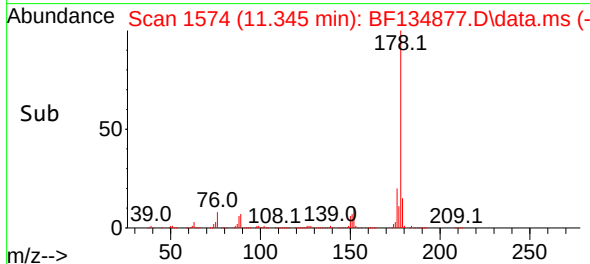
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z26-27DL



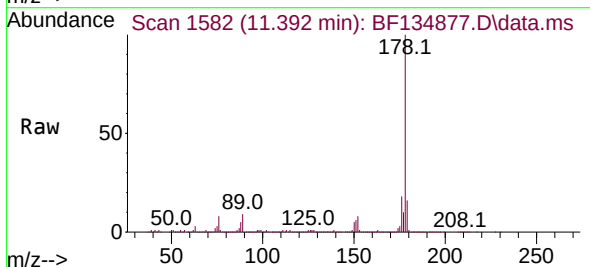
Tgt Ion:178 Resp: 1041276
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.6
179 15.4 12.7 19.1

Manual Integrations
APPROVED

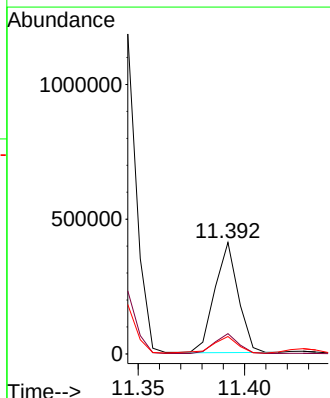
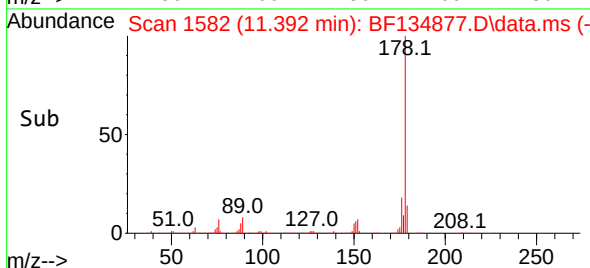
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023

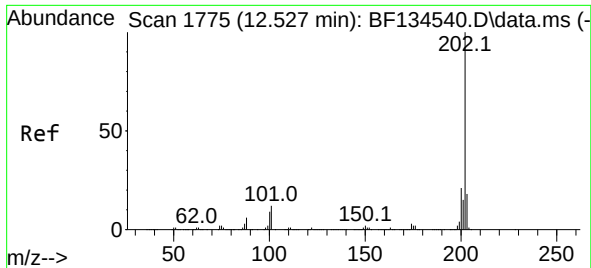


#72
Anthracene
Concen: 12.138 ng
RT: 11.392 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21



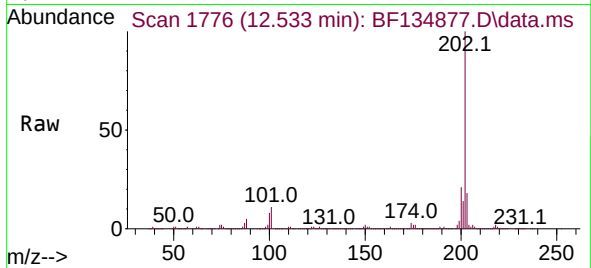
Tgt Ion:178 Resp: 314195
Ion Ratio Lower Upper
178 100
176 18.2 14.6 21.8
179 15.6 12.3 18.5





#75
Fluoranthene
Concen: 14.445 ng
RT: 12.533 min Scan# 1775
Delta R.T. -0.006 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

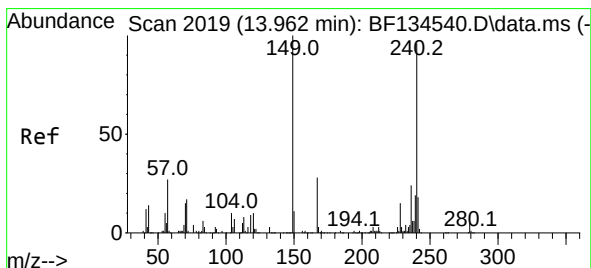
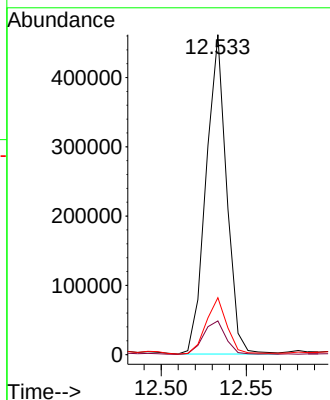
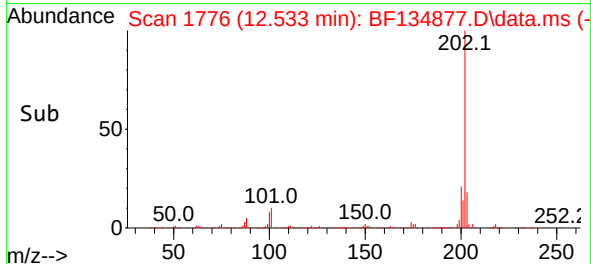
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z26-27DL



Tgt Ion:202 Resp: 386688
Ion Ratio Lower Upper
202 100
101 10.5 0.0 28.5
203 17.8 0.0 37.5

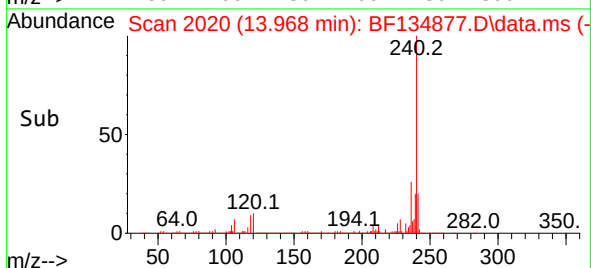
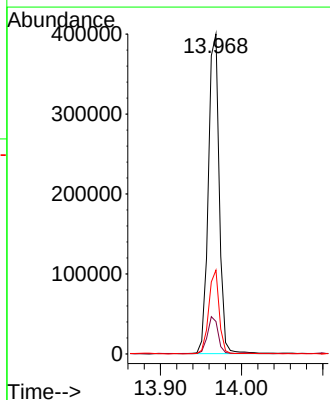
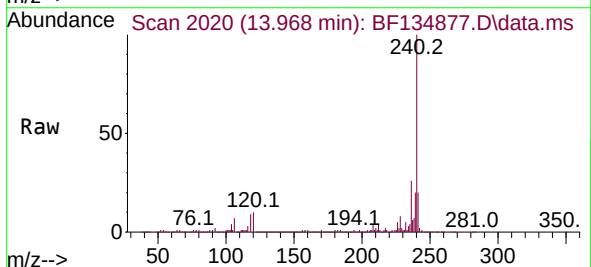
Manual Integrations
APPROVED

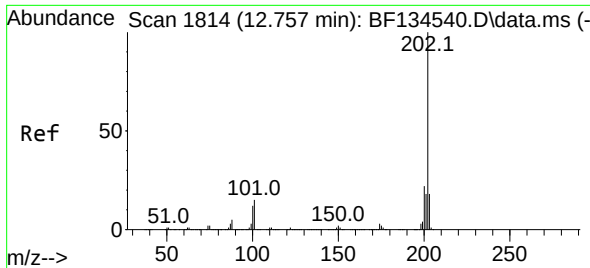
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

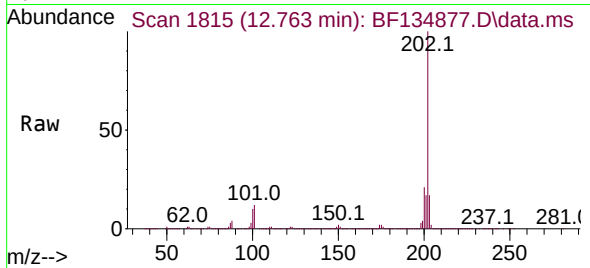
Tgt Ion:240 Resp: 373902
Ion Ratio Lower Upper
240 100
120 10.1 6.6 10.0#
236 26.2 20.2 30.2





#78
 Pyrene
 Concen: 18.749 ng
 RT: 12.763 min Scan# 1814
 Delta R.T. -0.006 min
 Lab File: BF134877.D
 Acq: 21 Aug 2023 20:21

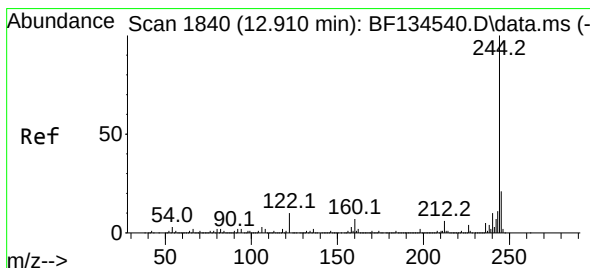
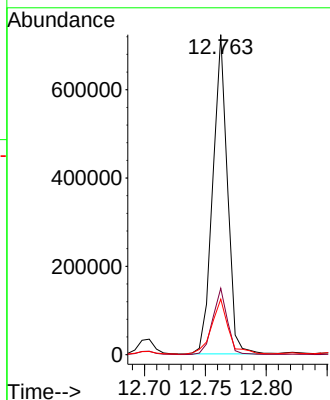
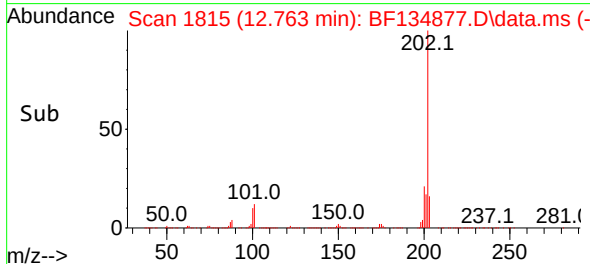
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB05-Z26-27DL



Tgt Ion:202 Resp: 606603
 Ion Ratio Lower Upper
 202 100
 200 20.7 15.8 23.8
 203 17.3 13.5 20.3

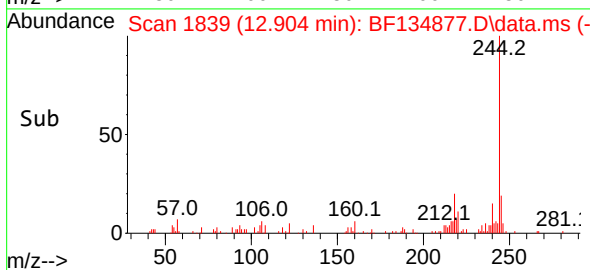
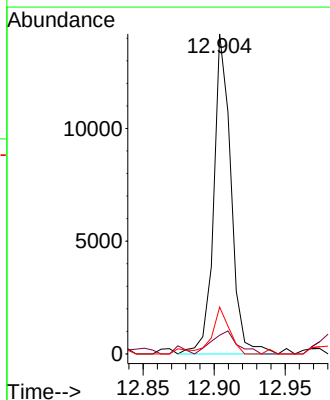
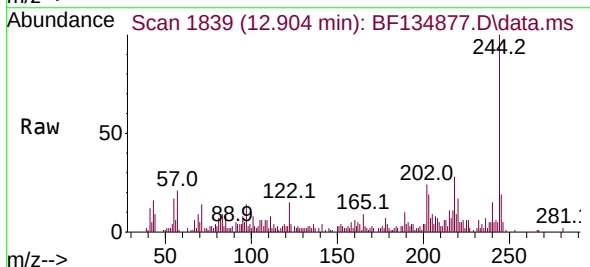
Manual Integrations
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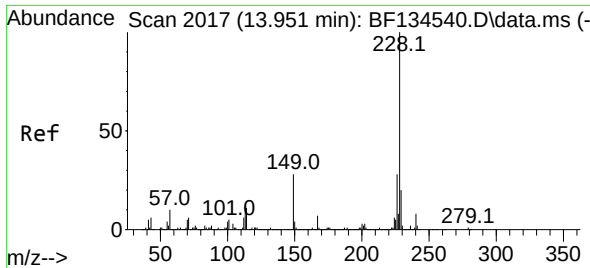
Reviewed By :Yogesh Patel 08/22/2023
 Supervised By :mohammad ahmed 08/22/2023



#79
 Terphenyl-d14
 Concen: 0.568 ng
 RT: 12.904 min Scan# 1839
 Delta R.T. -0.018 min
 Lab File: BF134877.D
 Acq: 21 Aug 2023 20:21

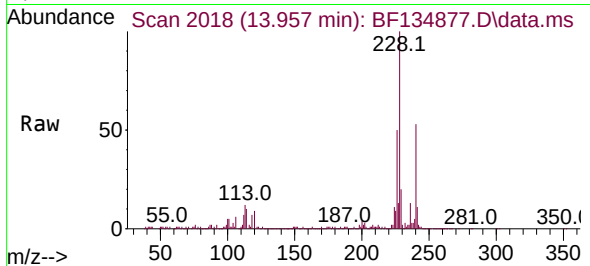
Tgt Ion:244 Resp: 12039
 Ion Ratio Lower Upper
 244 100
 212 5.8 5.6 8.4
 122 14.6 8.0 12.0#





#81
Benzo(a)anthracene
Concen: 7.808 ng m
RT: 13.957 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

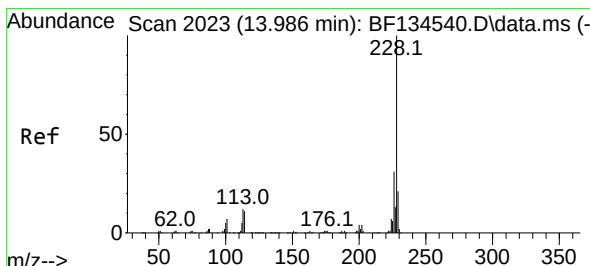
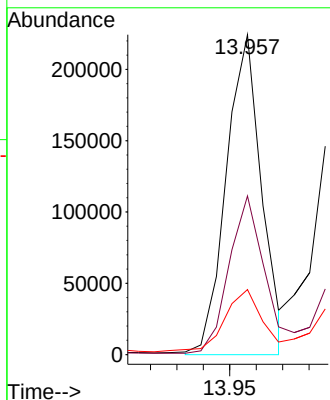
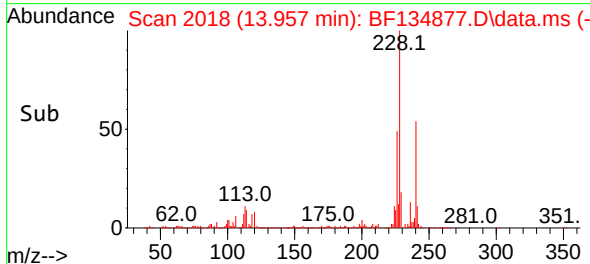
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z26-27DL



Tgt Ion:228 Resp: 208742
Ion Ratio Lower Upper
228 100
226 49.6 22.3 33.5
229 20.3 15.8 23.6

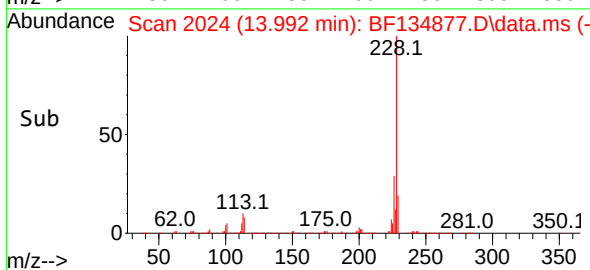
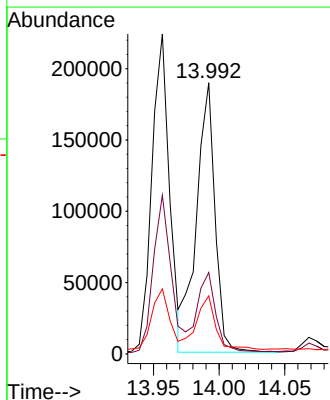
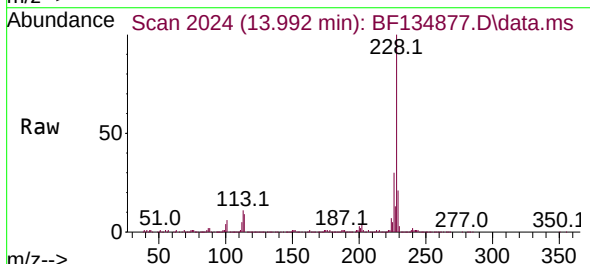
Manual Integrations
APPROVED

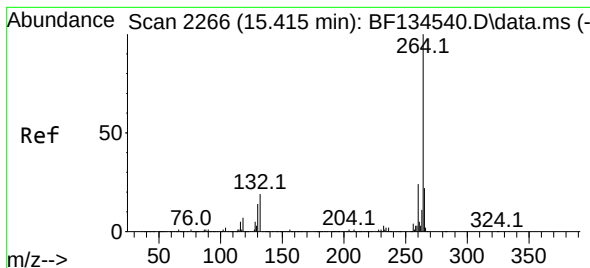
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023



#83
Chrysene
Concen: 7.184 ng
RT: 13.992 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

Tgt Ion:228 Resp: 187135
Ion Ratio Lower Upper
228 100
226 30.0 24.5 36.7
229 21.4 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.439 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF134877.D

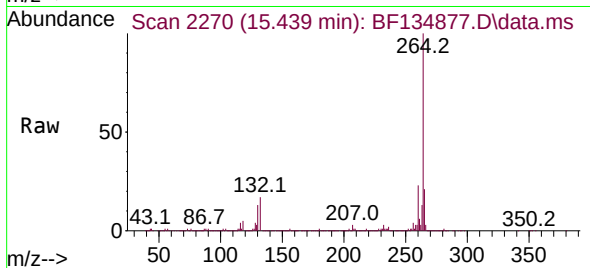
Acq: 21 Aug 2023 20:21

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z26-27DL



Tgt Ion:264 Resp: 304284

Ion Ratio Lower Upper

264 100

260 22.8 18.4 27.6

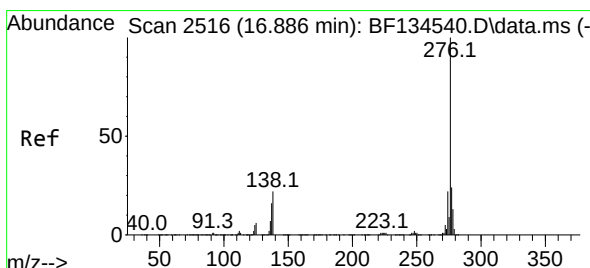
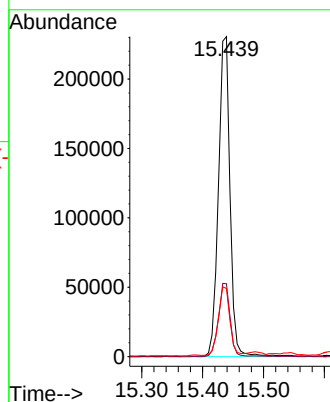
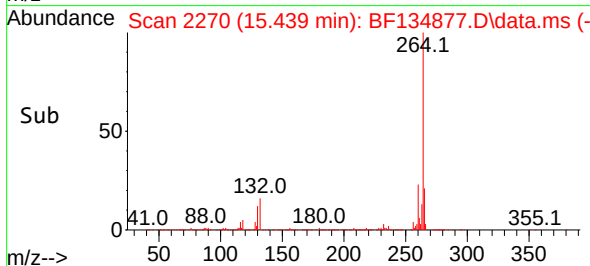
265 21.3 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/22/2023

Supervised By :mohammad ahmed 08/22/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.025 ng

RT: 16.915 min Scan# 2521

Delta R.T. -0.012 min

Lab File: BF134877.D

Acq: 21 Aug 2023 20:21

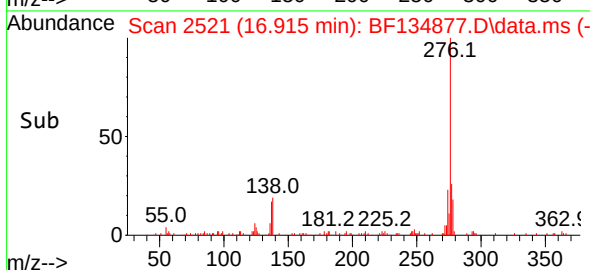
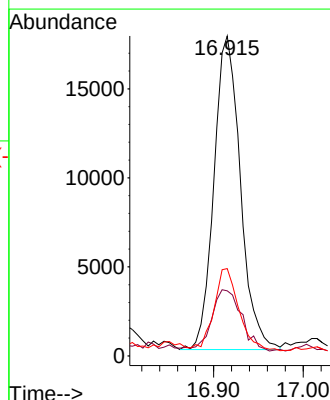
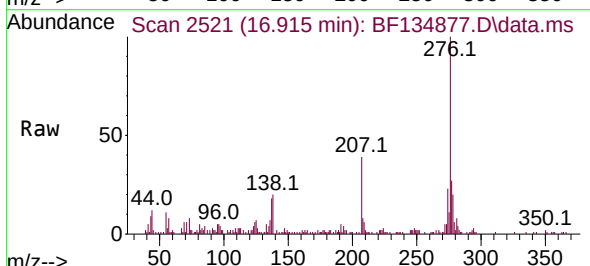
Tgt Ion:276 Resp: 36245

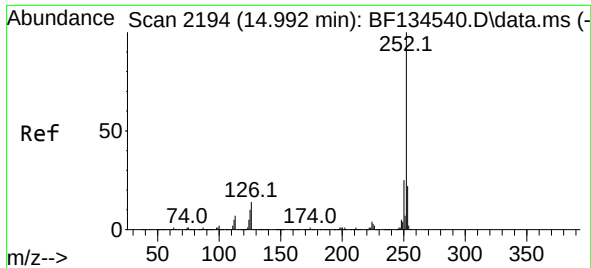
Ion Ratio Lower Upper

276 100

138 20.9 14.2 21.4

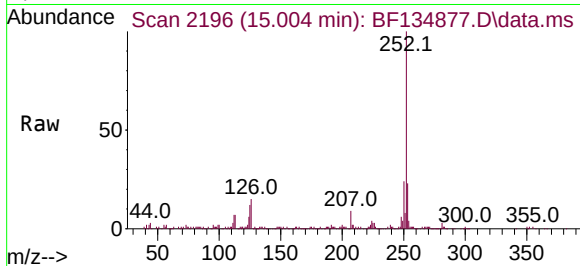
277 24.8 19.9 29.9





#88
Benzo(b)fluoranthene
Concen: 5.494 ng m
RT: 15.004 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

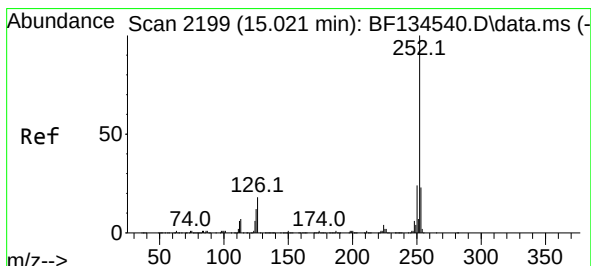
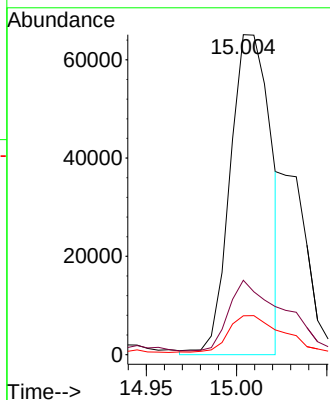
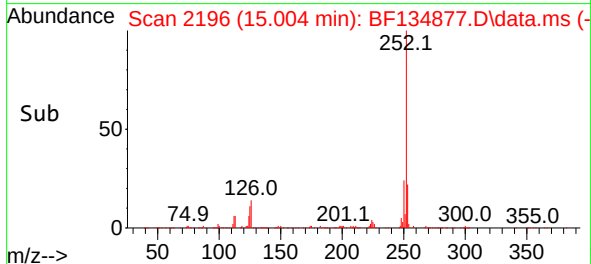
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z26-27DL



Tgt Ion:252 Resp: 101962
Ion Ratio Lower Upper
252 100
253 23.2 17.3 25.9
125 12.1 6.0 9.0

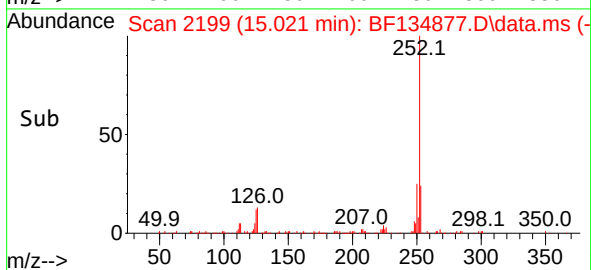
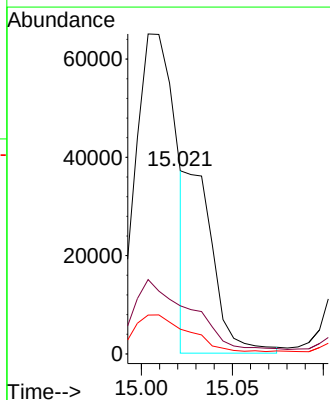
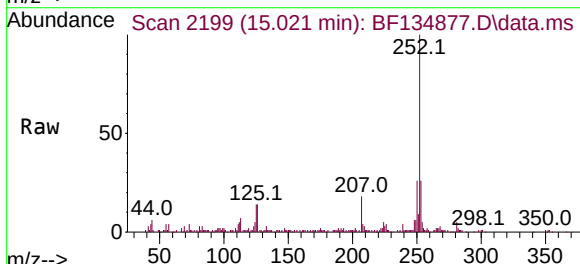
Manual Integrations
APPROVED

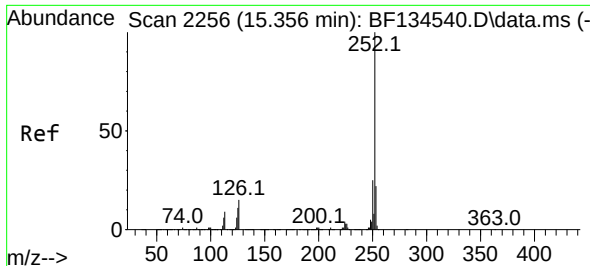
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023



#89
Benzo(k)fluoranthene
Concen: 2.105 ng m
RT: 15.021 min Scan# 2199
Delta R.T. -0.018 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

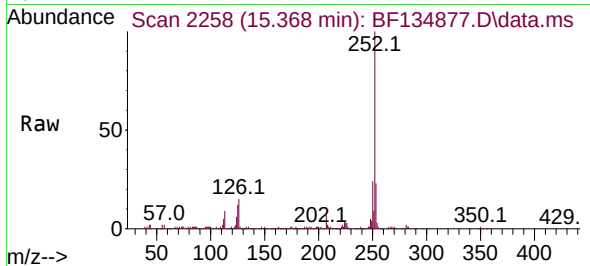
Tgt Ion:252 Resp: 38914
Ion Ratio Lower Upper
252 100
253 26.2 17.9 26.9
125 13.5 6.3 9.5





#90
Benzo(a)pyrene
Concen: 6.934 ng
RT: 15.368 min Scan# 2256
Delta R.T. -0.012 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

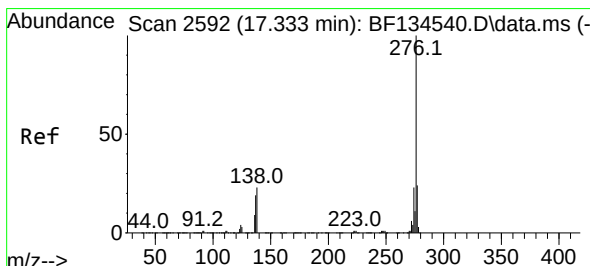
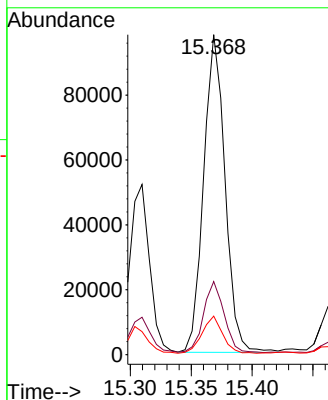
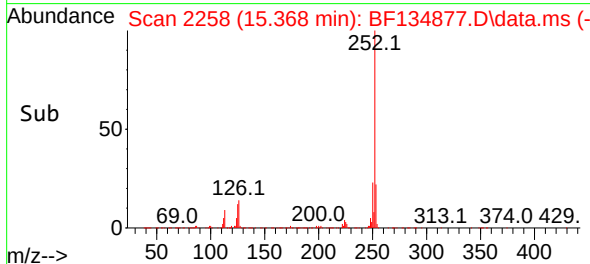
Instrument : BNA_F
ClientSampleId : NEVINS-SB05-Z26-27DL



Tgt Ion:252 Resp: 119982
Ion Ratio Lower Upper
252 100
253 22.8 17.0 25.4
125 12.0 6.2 9.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023



#92
Benzo(g,h,i)perylene
Concen: 2.561 ng
RT: 17.362 min Scan# 2597
Delta R.T. -0.012 min
Lab File: BF134877.D
Acq: 21 Aug 2023 20:21

Tgt Ion:276 Resp: 37789
Ion Ratio Lower Upper
276 100
277 23.0 19.0 28.6
138 19.1 12.2 18.2

