

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081823\
 Data File : BF134843.D
 Acq On : 18 Aug 2023 16:38
 Operator : CG\JU
 Sample : 04047-03 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB05-Z60-61-Q

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/21/2023
 Supervised By :mohammad ahmed 08/21/2023

Quant Time: Aug 18 17:07:48 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	137892	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	542969	20.000	ng	# 0.00
39) Acenaphthene-d10	9.828	164	269832	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	380953	20.000	ng	# 0.00
76) Chrysene-d12	13.963	240	268469	20.000	ng	#-0.01
86) Perylene-d12	15.433	264	232397	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	91288	10.063	ng	-0.02
7) Phenol-d6	6.416	99	118964	10.259	ng	-0.02
23) Nitrobenzene-d5	7.345	82	70816	8.151	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	21838	7.939	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	136729	8.425	ng	-0.02
79) Terphenyl-d14	12.904	244	95347	6.261	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.104	128	4088398	149.821	ng	97
37) 2-Methylnaphthalene	8.792	142	1299454	71.841	ng	99
38) 1-Methylnaphthalene	8.886	142	966486	57.461	ng	98
46) 1,1'-Biphenyl	9.245	154	263583	12.562	ng	98
49) Acenaphthylene	9.686	152	116874	4.729	ng	# 89
52) Acenaphthene	9.863	154	665056	41.525	ng	99
55) Dibenzofuran	10.028	168	53865	2.363	ng	# 87
58) Fluorene	10.375	166	362011	21.799	ng	94
71) Phenanthrene	11.345	178	1198477	59.229	ng	99
72) Anthracene	11.392	178	354055	17.130	ng	100
75) Fluoranthene	12.533	202	421023	19.698	ng	97
78) Pyrene	12.763	202	647595	27.876	ng	98
81) Benzo(a)anthracene	13.957	228	231568m	12.063	ng	
83) Chrysene	13.992	228	199373	10.660	ng	99
87) Indeno(1,2,3-cd)pyrene	16.909	276	38547	2.820	ng	# 95
88) Benzo(b)fluoranthene	15.010	252	124920m	8.814	ng	
89) Benzo(k)fluoranthene	15.027	252	47480m	3.363	ng	
90) Benzo(a)pyrene	15.368	252	143723	10.876	ng	# 96
92) Benzo(g,h,i)perylene	17.362	276	44726	3.970	ng	# 90

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

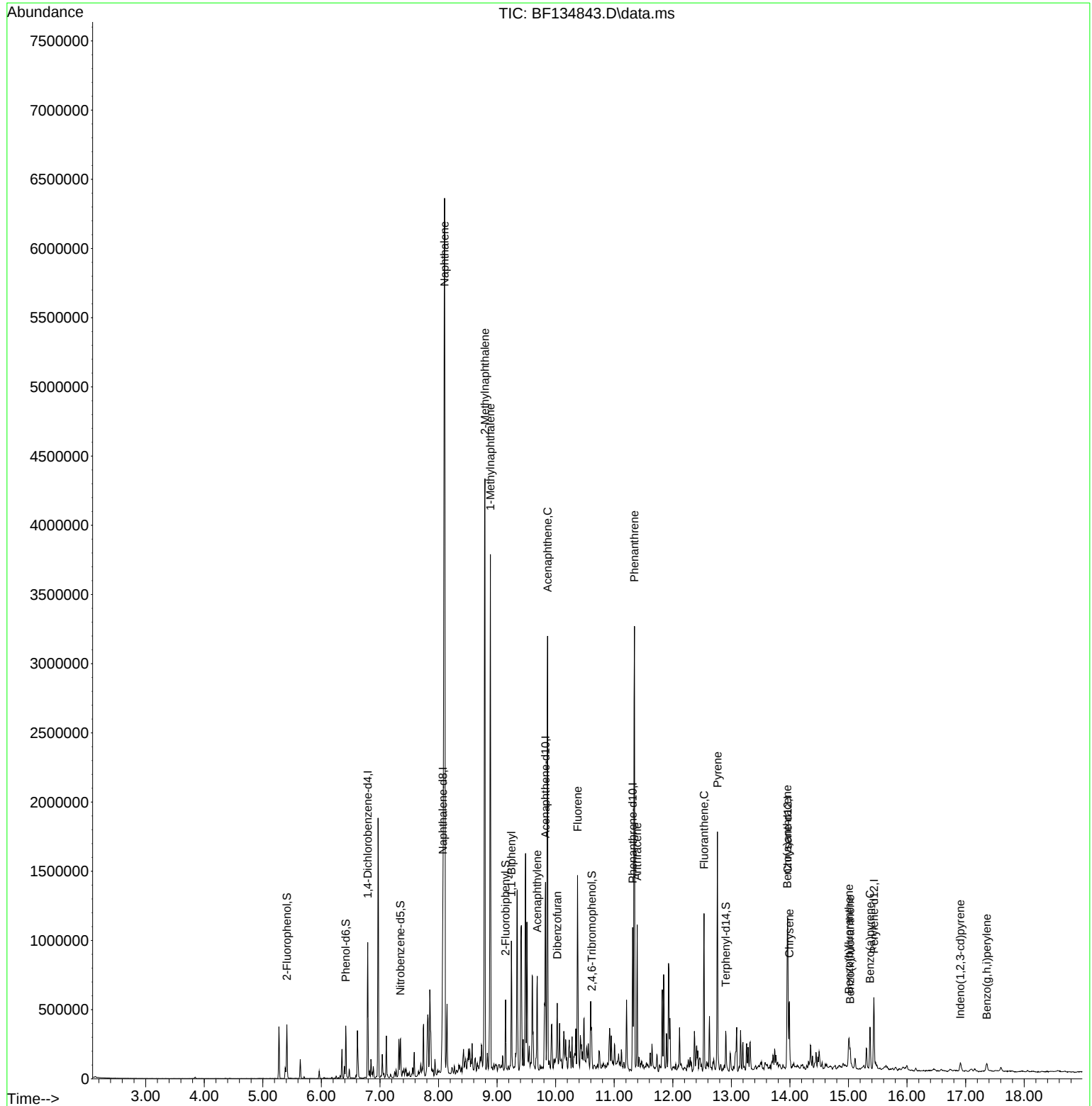
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081823\
Data File : BF134843.D
Acq On : 18 Aug 2023 16:38
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Sample : 04047-03 10X
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ALS Vial : 12 Sample Multiplier: 1

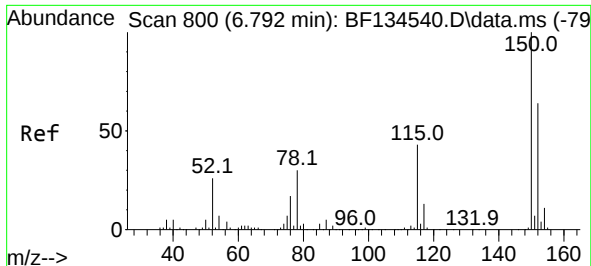
Instrument :
BNA_F
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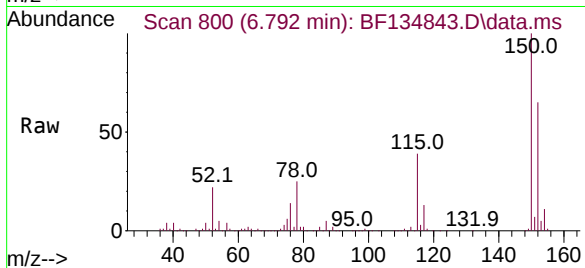
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38

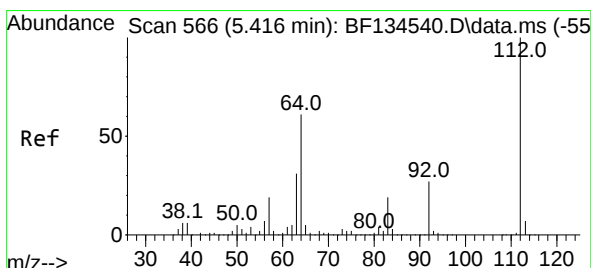
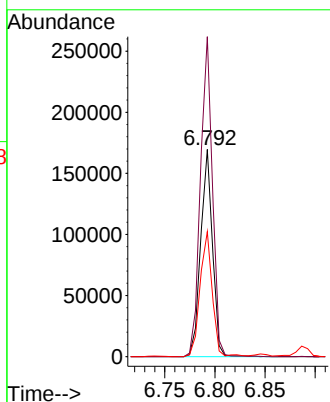
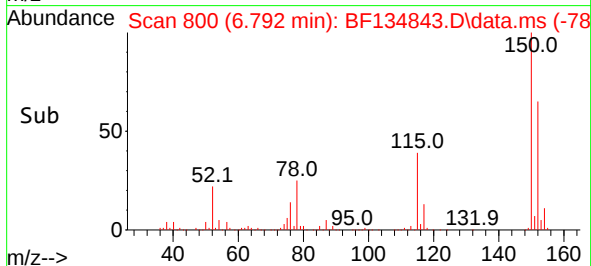
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z60-61-Q



Tgt Ion:152 Resp: 137892
Ion Ratio Lower Upper
152 100
150 154.5 128.3 192.5
115 60.3 52.4 78.6

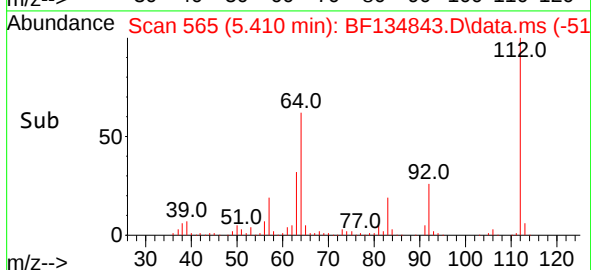
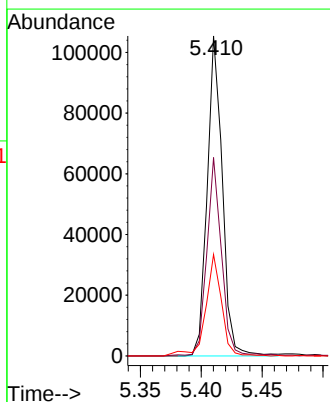
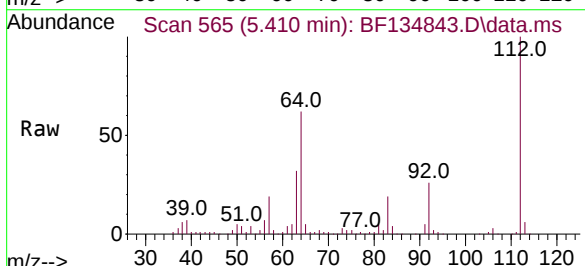
Manual Integrations
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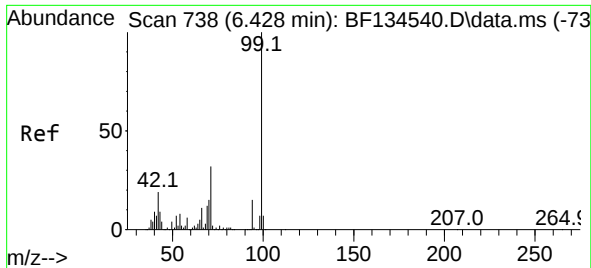
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023



#5
2-Fluorophenol
Concen: 10.063 ng
RT: 5.410 min Scan# 565
Delta R.T. -0.018 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38

Tgt Ion:112 Resp: 91288
Ion Ratio Lower Upper
112 100
64 62.0 44.9 67.3
63 31.7 25.4 38.0





#7

Phenol-d6

Concen: 10.259 ng

RT: 6.416 min Scan# 738

Delta R.T. -0.023 min

Lab File: BF134843.D

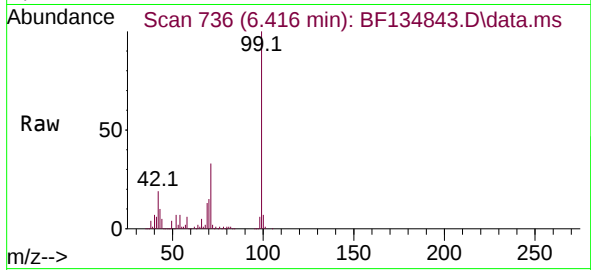
Acq: 18 Aug 2023 16:38

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z60-61-Q



Tgt Ion: 99 Resp: 118964

Ion Ratio Lower Upper

99 100

42 18.6 18.7 28.1#

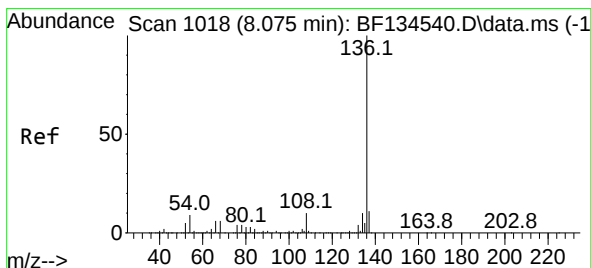
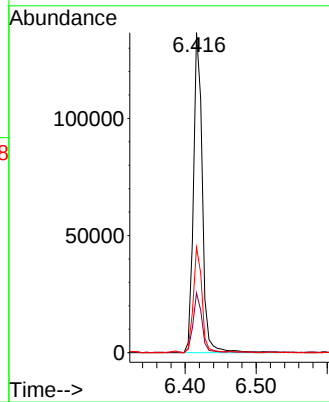
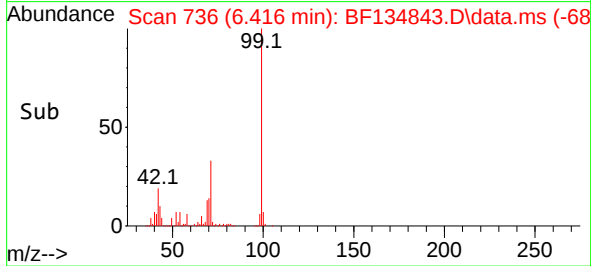
71 32.9 36.4 54.6#

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: BF134843.D

Acq: 18 Aug 2023 16:38

Tgt Ion:136 Resp: 542969

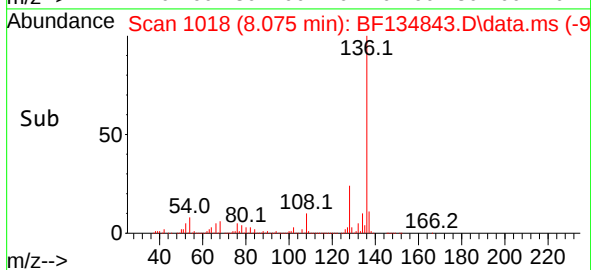
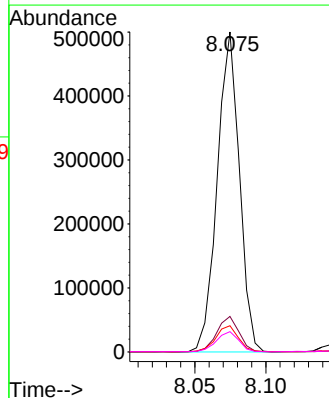
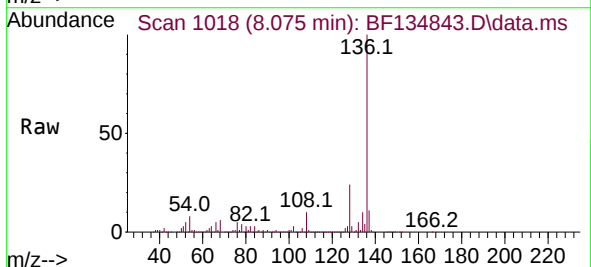
Ion Ratio Lower Upper

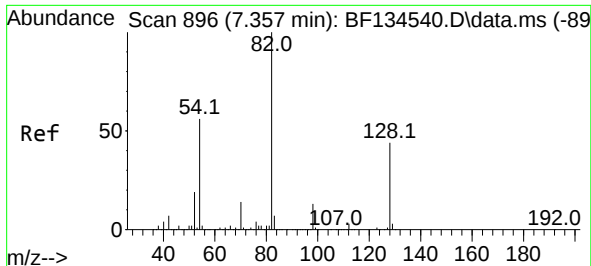
136 100

137 11.1 8.4 12.6

54 8.2 5.2 7.8#

68 6.3 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 8.151 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.024 min

Lab File: BF134843.D

Acq: 18 Aug 2023 16:38

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z60-61-Q

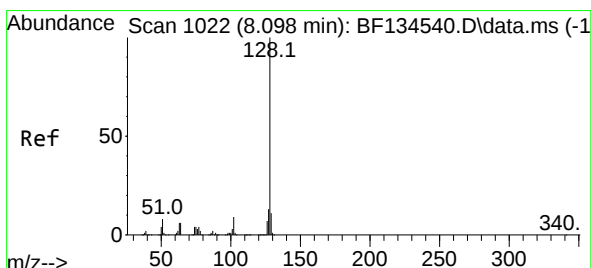
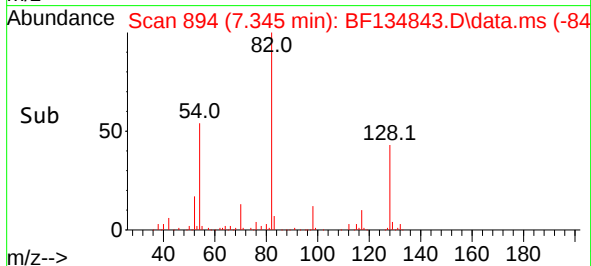
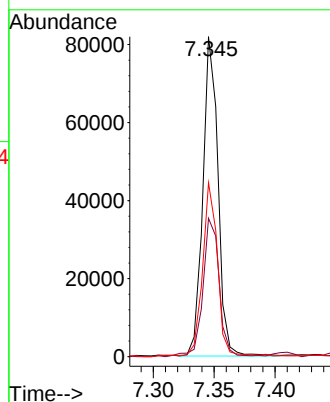
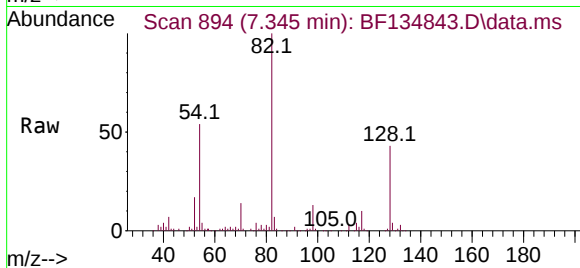
Tgt Ion: 82	Resp: 70816
Ion Ratio	Lower Upper
82	100
128	43.2 34.3 51.5
54	54.3 43.8 65.6

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Supervised By :mohammad ahmed 08/21/2023



#31

Naphthalene

Concen: 149.821 ng

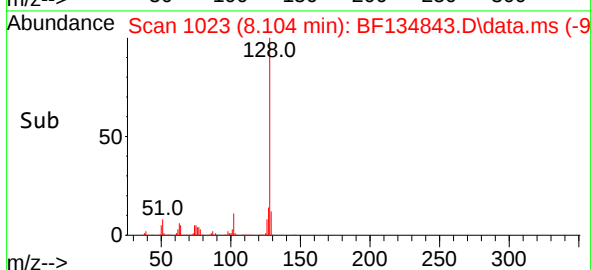
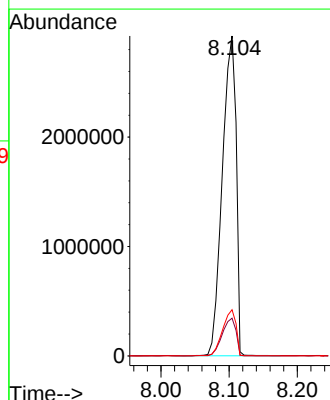
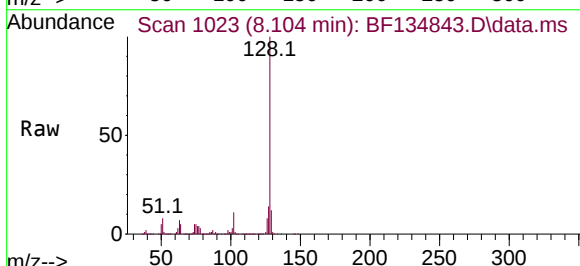
RT: 8.104 min Scan# 1023

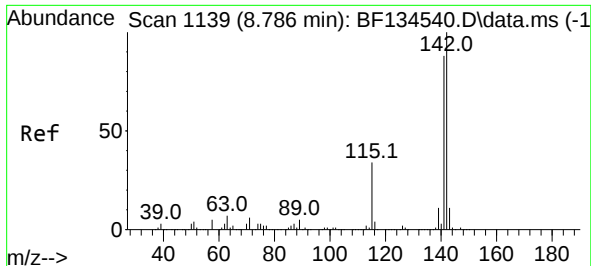
Delta R.T. 0.000 min

Lab File: BF134843.D

Acq: 18 Aug 2023 16:38

Tgt Ion:128	Resp: 4088398
Ion Ratio	Lower Upper
128	100
129	11.8 8.4 12.6
127	14.4 10.7 16.1





#37

2-Methylnaphthalene

Concen: 71.841 ng

RT: 8.792 min Scan# 1139

Delta R.T. 0.000 min

Lab File: BF134843.D

Acq: 18 Aug 2023 16:38

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z60-61-Q

Tgt Ion:142 Resp: 1299454

Ion Ratio Lower Upper

142 100

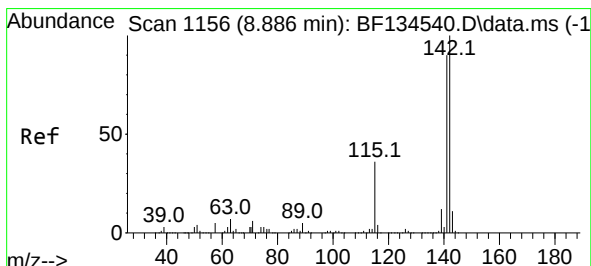
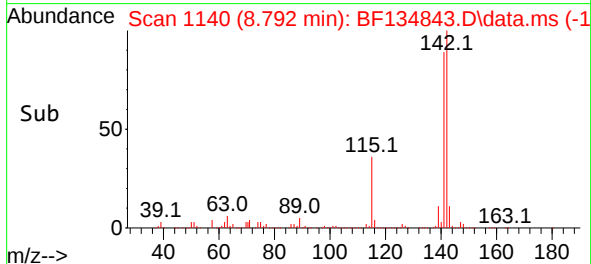
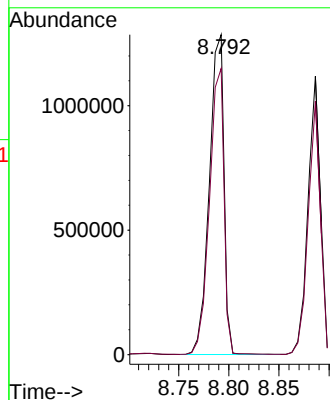
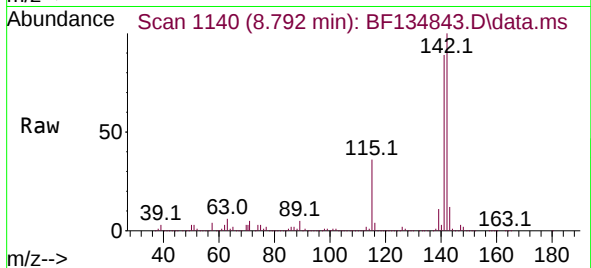
141 89.4 70.8 106.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/21/2023

Supervised By :mohammad ahmed 08/21/2023



#38

1-Methylnaphthalene

Concen: 57.461 ng

RT: 8.886 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF134843.D

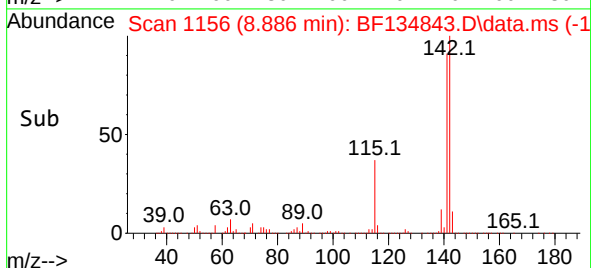
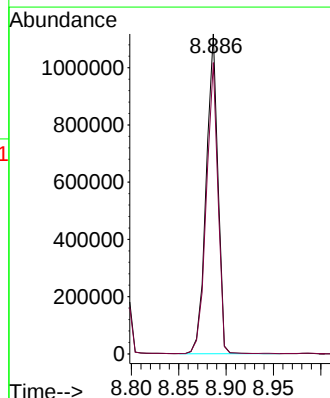
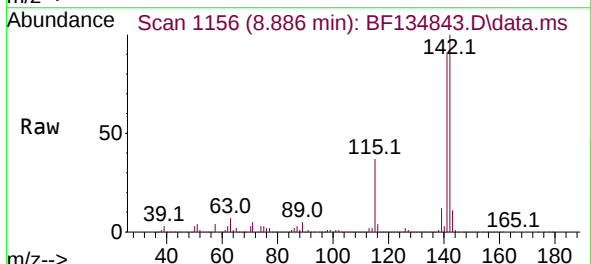
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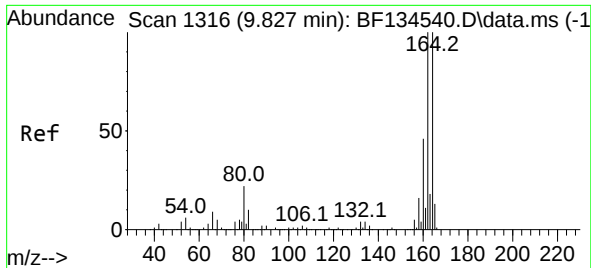
Tgt Ion:142 Resp: 966486

Ion Ratio Lower Upper

142 100

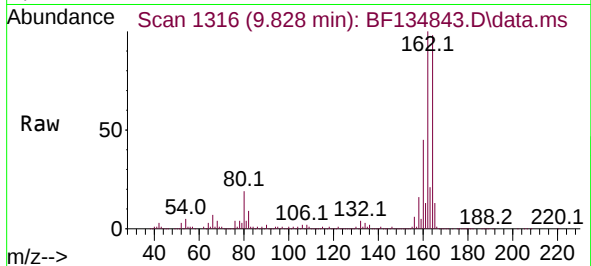
141 91.0 71.4 107.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1316
Delta R.T. -0.006 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38

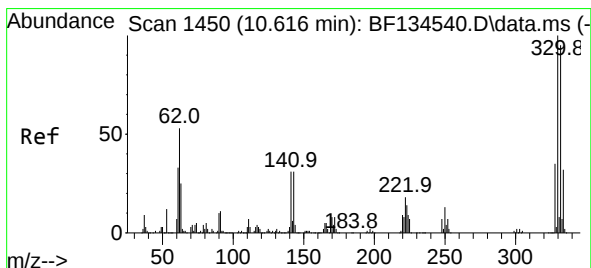
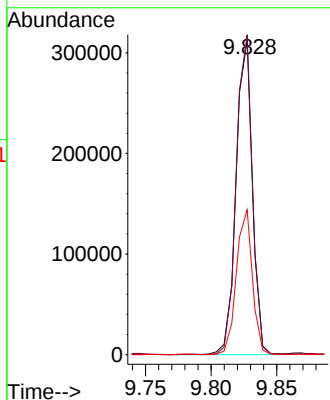
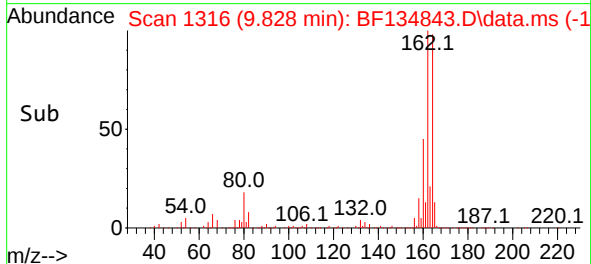
Instrument :
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ClientSampleId :
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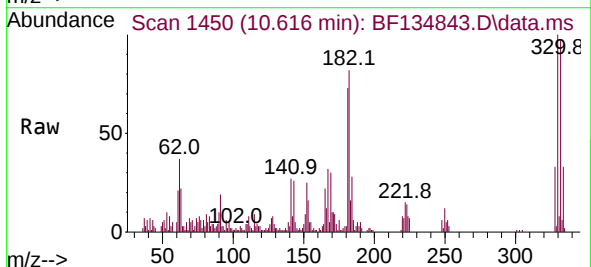
Tgt Ion:164 Resp: 269832
Ion Ratio Lower Upper
164 100
162 101.9 82.6 123.8
160 46.1 37.2 55.8

Manual Integrations
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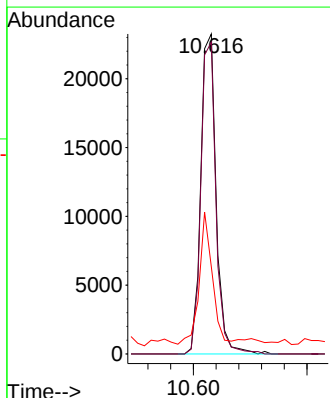
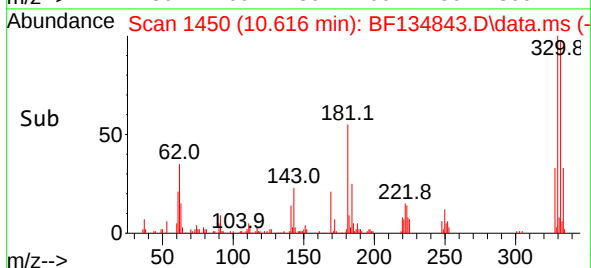
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023

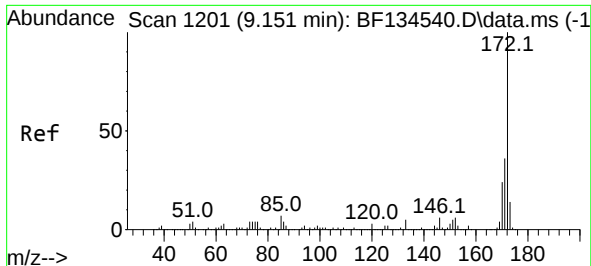


#42
2,4,6-Tribromophenol
Concen: 7.939 ng
RT: 10.616 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38



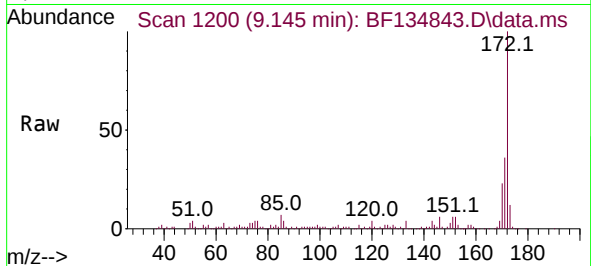
Tgt Ion:330 Resp: 21838
Ion Ratio Lower Upper
330 100
332 95.7 78.8 118.2
141 35.0 25.4 38.2





#45
2-Fluorobiphenyl
Concen: 8.425 ng
RT: 9.145 min Scan# 1200
Delta R.T. -0.018 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38

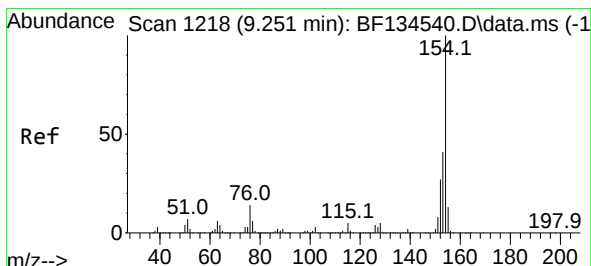
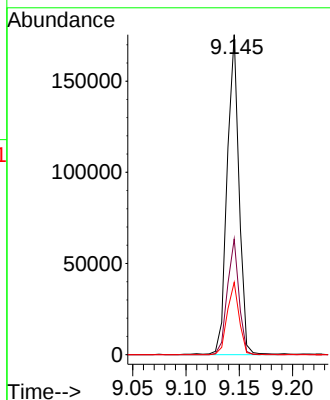
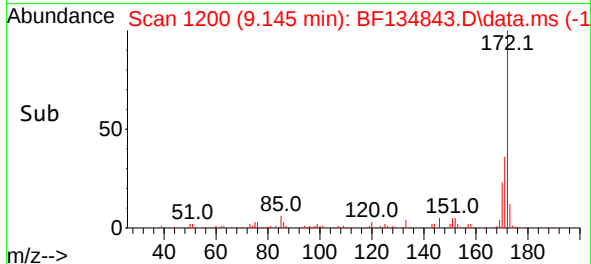
Instrument :
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NEVINS-SB05-Z60-61-Q



Tgt Ion:172 Resp: 136729
Ion Ratio Lower Upper
172 100
171 36.2 28.8 43.2
170 22.6 18.7 28.1

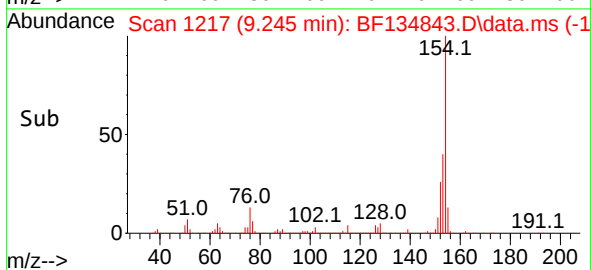
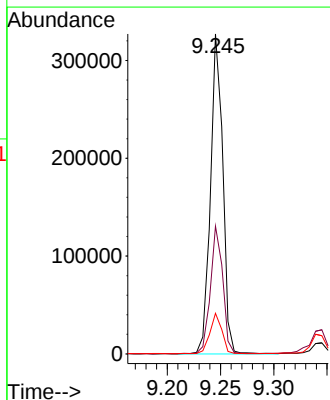
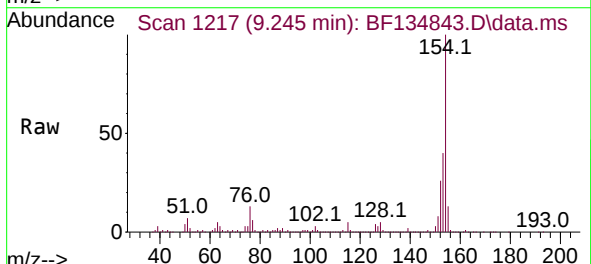
Manual Integrations
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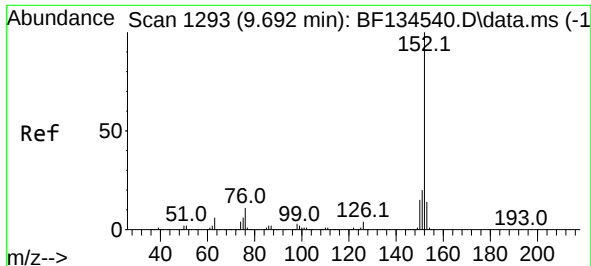
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023



#46
1,1'-Biphenyl
Concen: 12.562 ng
RT: 9.245 min Scan# 1217
Delta R.T. -0.018 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38

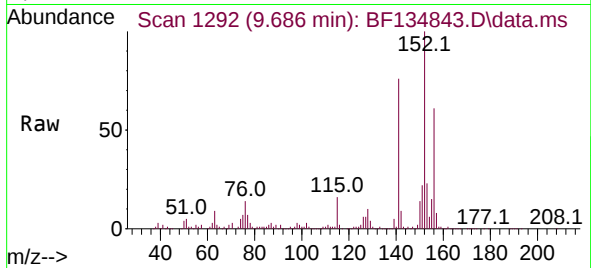
Tgt Ion:154 Resp: 263583
Ion Ratio Lower Upper
154 100
153 39.9 20.8 60.8
76 12.7 0.0 30.2





#49
Acenaphthylene
Concen: 4.729 ng
RT: 9.686 min Scan# 1292
Delta R.T. -0.012 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38

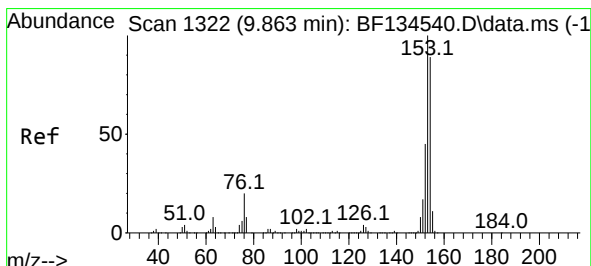
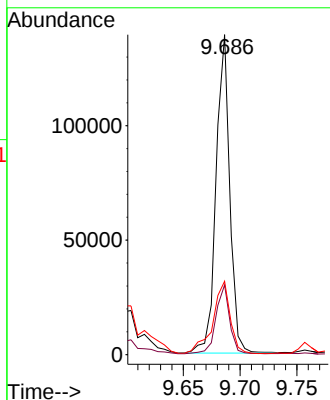
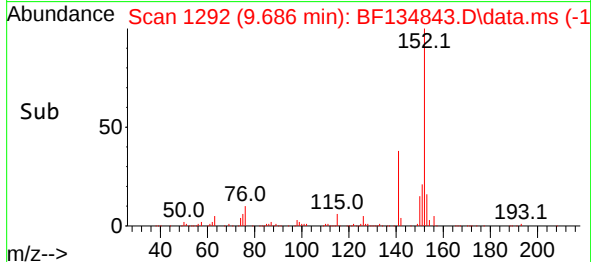
Instrument : BNA_F
ClientSampleId : NEVINS-SB05-Z60-61-Q



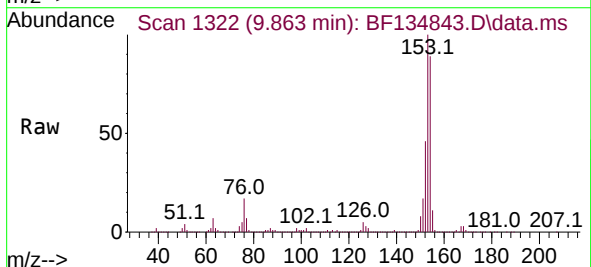
Tgt Ion:152 Resp: 116874
Ion Ratio Lower Upper
152 100
151 21.8 16.4 24.6
153 22.9 10.9 16.3

Manual Integrations
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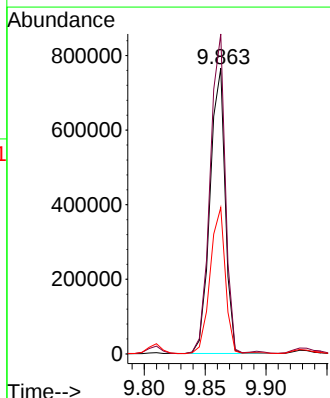
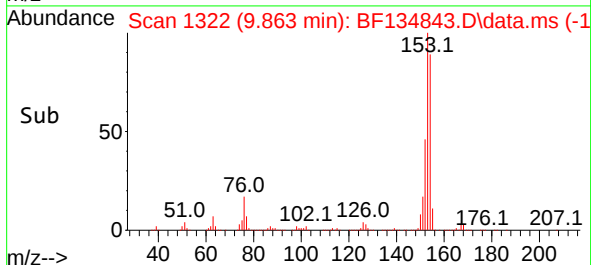
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023

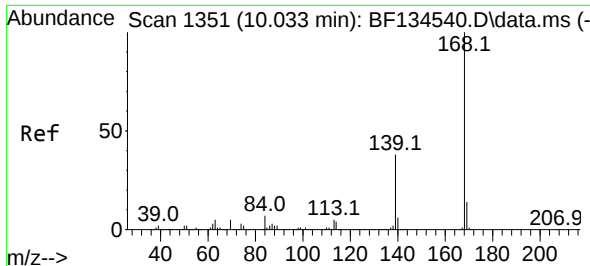


#52
Acenaphthene
Concen: 41.525 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.012 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38



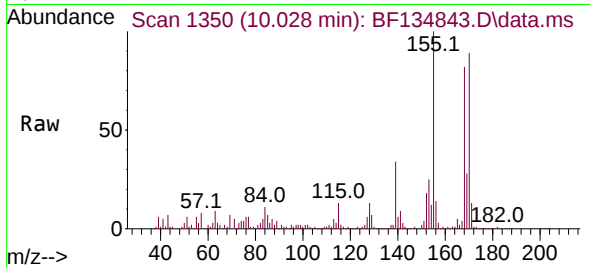
Tgt Ion:154 Resp: 665056
Ion Ratio Lower Upper
154 100
153 112.1 90.0 135.0
152 51.3 42.4 63.6





#55
Dibenzenofuran
Concen: 2.363 ng
RT: 10.028 min Scan# 1351
Delta R.T. -0.018 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38

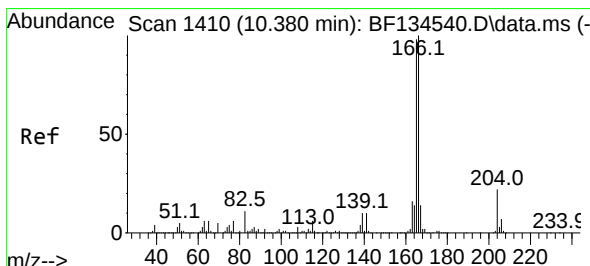
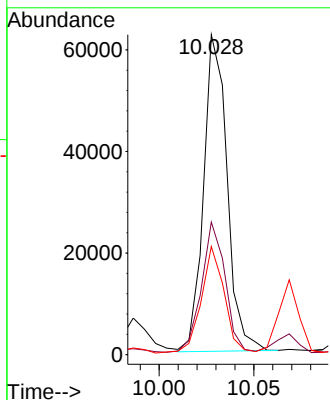
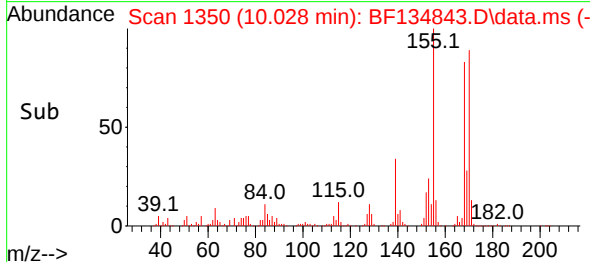
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z60-61-Q



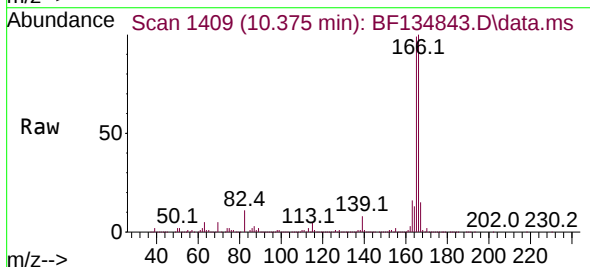
Tgt Ion:168 Resp: 5386
Ion Ratio Lower Upper
168 100
139 41.4 33.4 50.2
169 33.8 10.6 15.8

Manual Integrations
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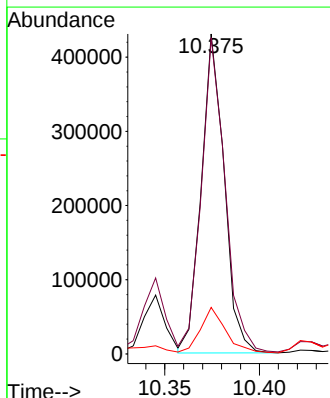
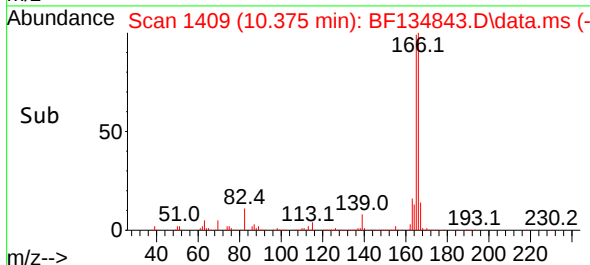
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023

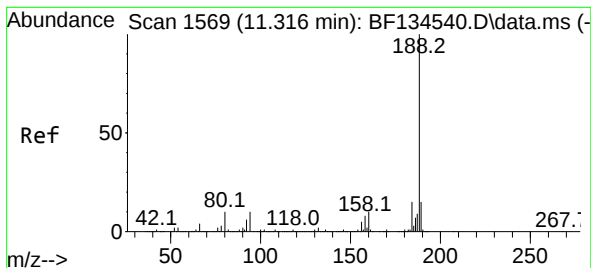


#58
Fluorene
Concen: 21.799 ng
RT: 10.375 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38



Tgt Ion:166 Resp: 362011
Ion Ratio Lower Upper
166 100
165 98.8 74.5 111.7
167 14.5 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.316 min Scan# 1569

Delta R.T. -0.006 min

Lab File: BF134843.D

Acq: 18 Aug 2023 16:38

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z60-61-Q

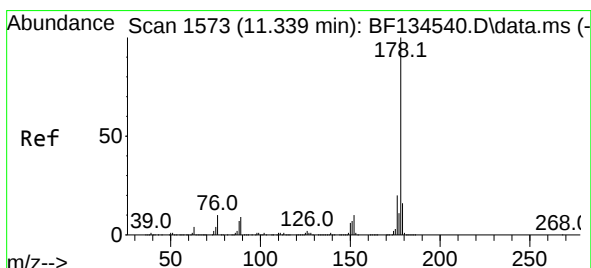
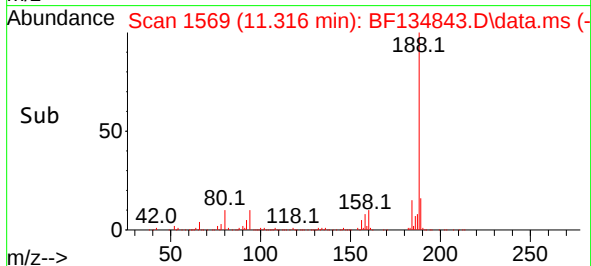
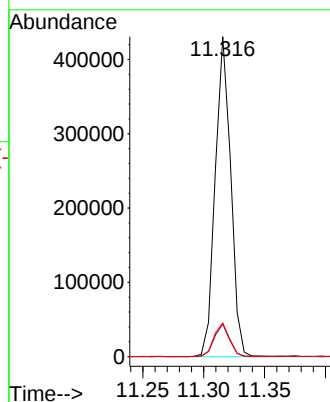
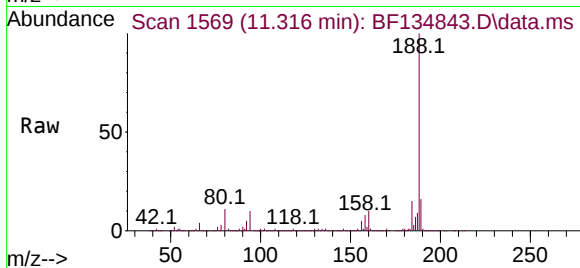
Tgt Ion:188 Resp: 380953
 Ion Ratio Lower Upper
 188 100
 94 10.2 5.1 7.7
 80 10.5 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2023

Supervised By :mohammad ahmed 08/21/2023



#71

Phenanthrene

Concen: 59.229 ng

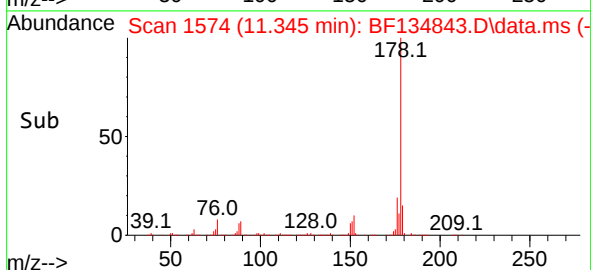
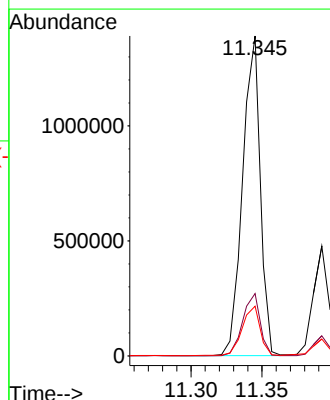
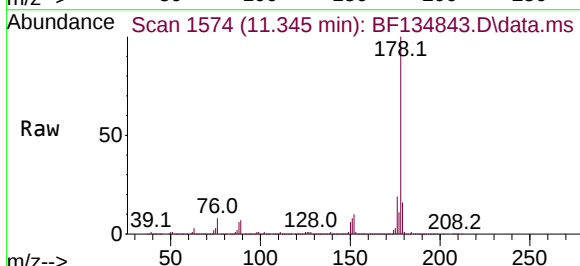
RT: 11.345 min Scan# 1574

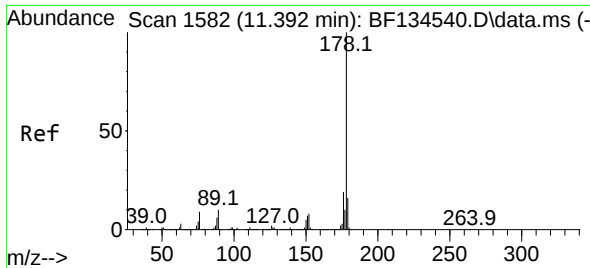
Delta R.T. -0.006 min

Lab File: BF134843.D

Acq: 18 Aug 2023 16:38

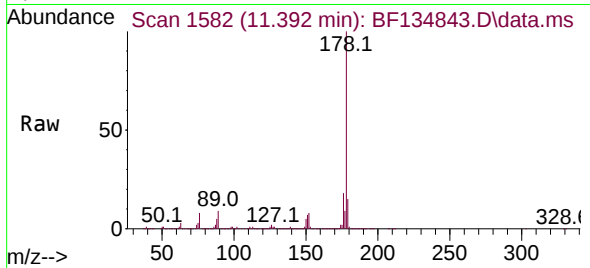
Tgt Ion:178 Resp: 1198477
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.8 23.6
 179 15.5 12.7 19.1





#72
 Anthracene
 Concen: 17.130 ng
 RT: 11.392 min Scan# 11392
 Delta R.T. -0.012 min
 Lab File: BF134843.D
 Acq: 18 Aug 2023 16:38

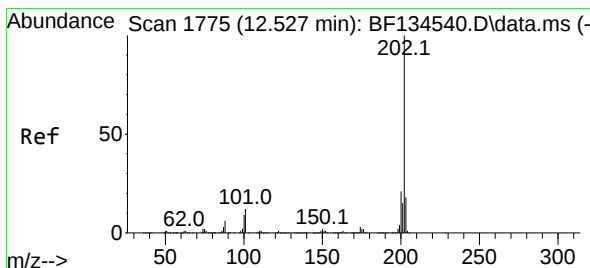
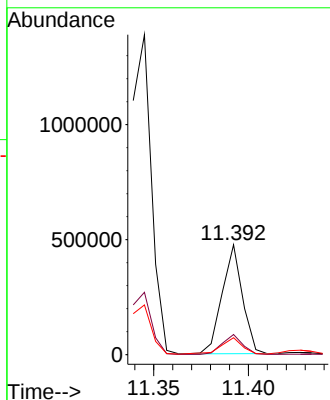
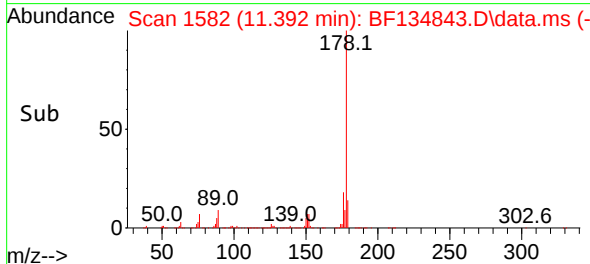
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB05-Z60-61-Q



Tgt Ion:178 Resp: 354055
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.6 21.8
 179 15.4 12.3 18.5

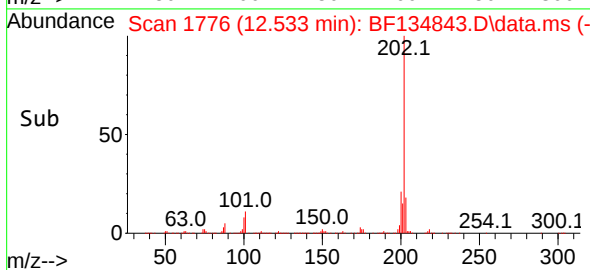
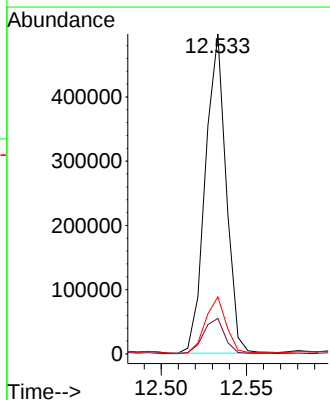
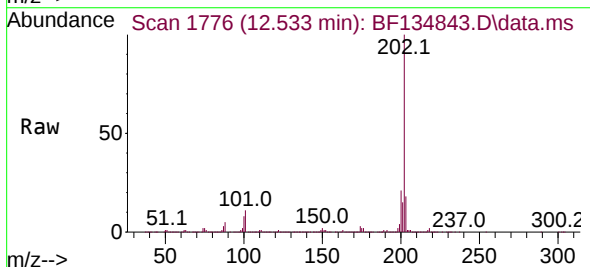
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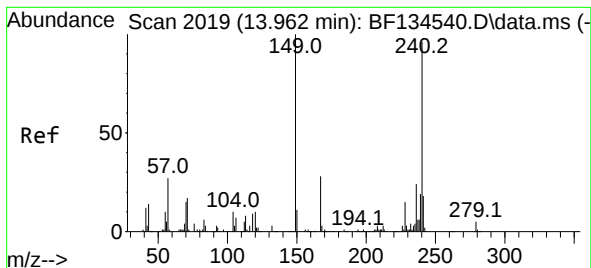
Reviewed By :Yogesh Patel 08/21/2023
 Supervised By :mohammad ahmed 08/21/2023



#75
 Fluoranthene
 Concen: 19.698 ng
 RT: 12.533 min Scan# 1776
 Delta R.T. -0.006 min
 Lab File: BF134843.D
 Acq: 18 Aug 2023 16:38

Tgt Ion:202 Resp: 421023
 Ion Ratio Lower Upper
 202 100
 101 11.1 0.0 28.5
 203 17.8 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.963 min Scan# 2019

Delta R.T. -0.012 min

Lab File: BF134843.D

Acq: 18 Aug 2023 16:38

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z60-61-Q

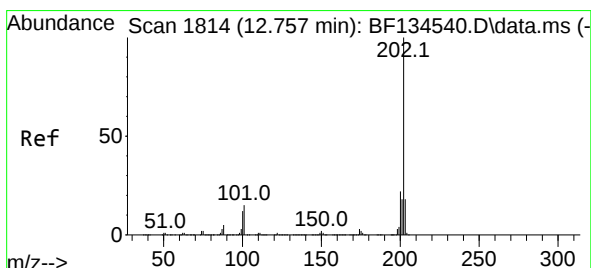
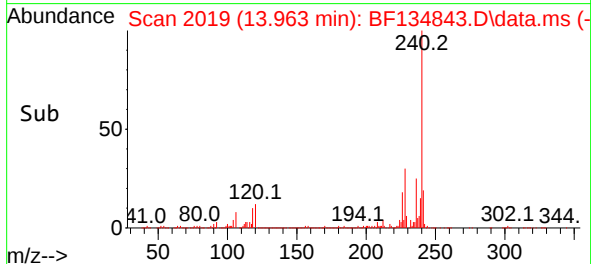
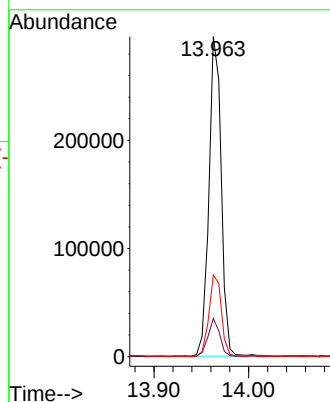
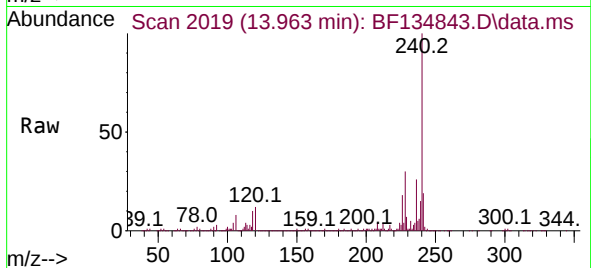
Tgt Ion:240 Resp: 268469
 Ion Ratio Lower Upper
 240 100
 120 11.9 6.6 10.0
 236 25.5 20.2 30.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/21/2023

Supervised By :mohammad ahmed 08/21/2023



#78

Pyrene

Concen: 27.876 ng

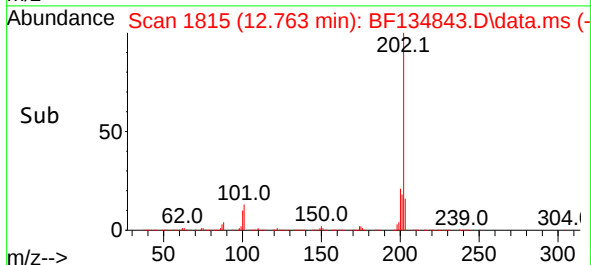
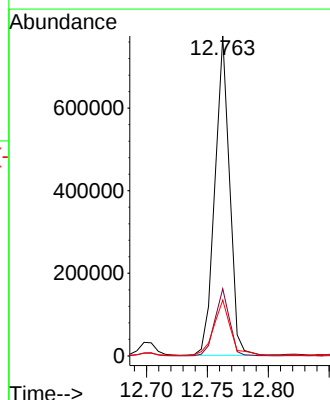
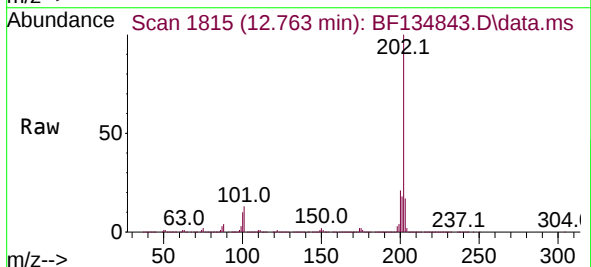
RT: 12.763 min Scan# 1815

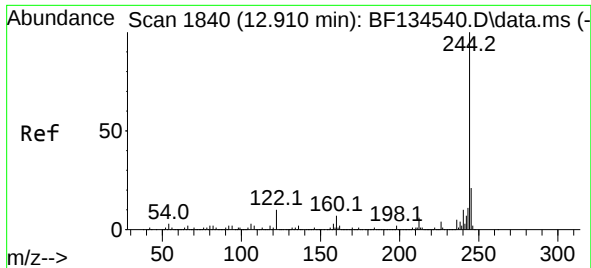
Delta R.T. -0.006 min

Lab File: BF134843.D

Acq: 18 Aug 2023 16:38

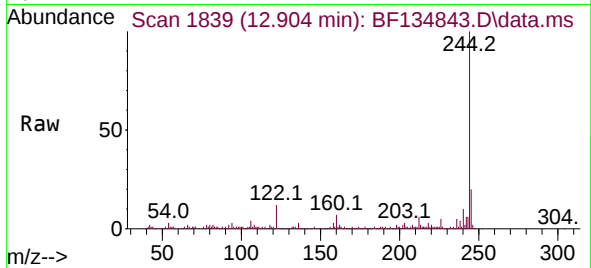
Tgt Ion:202 Resp: 647595
 Ion Ratio Lower Upper
 202 100
 200 21.0 15.8 23.8
 203 17.4 13.5 20.3





#79
Terphenyl-d14
Concen: 6.261 ng
RT: 12.904 min Scan# 1840
Delta R.T. -0.018 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38

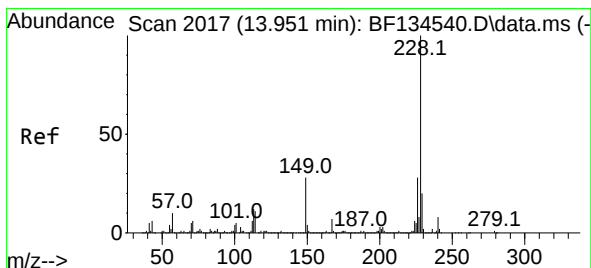
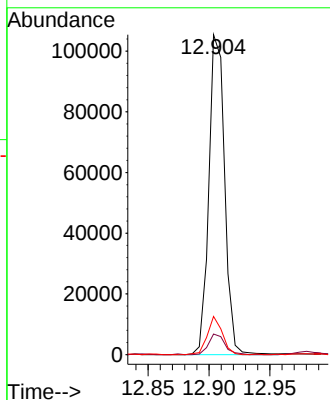
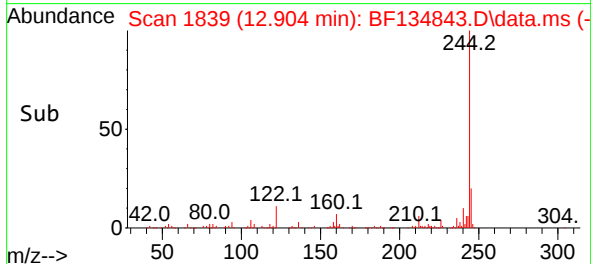
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z60-61-Q



Tgt Ion:244 Resp: 95347
Ion Ratio Lower Upper
244 100
212 6.4 5.6 8.4
122 11.9 8.0 12.0

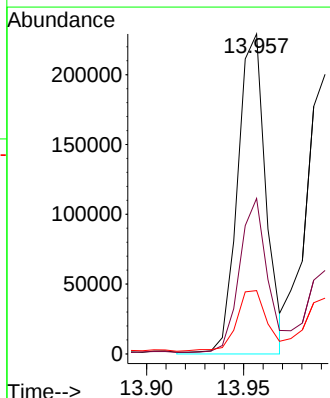
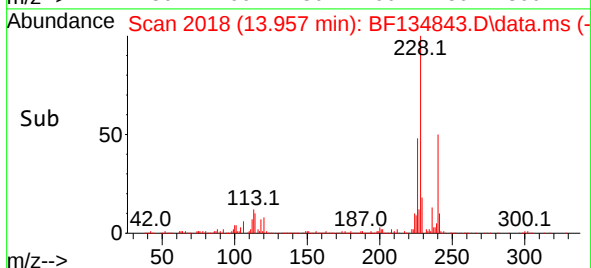
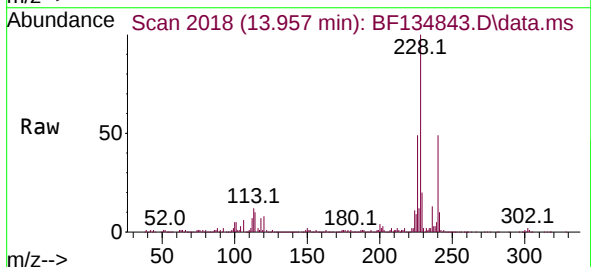
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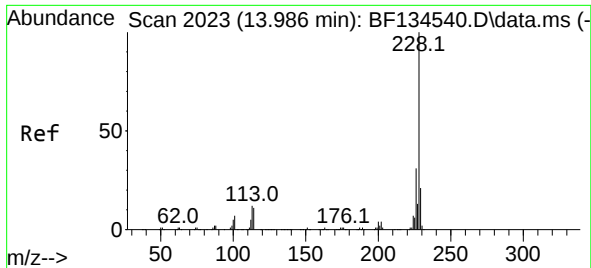
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023



#81
Benzo(a)anthracene
Concen: 12.063 ng m
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38

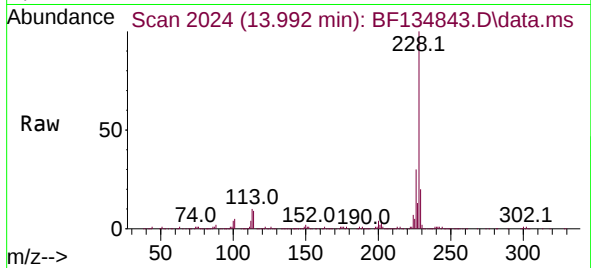
Tgt Ion:228 Resp: 231568
Ion Ratio Lower Upper
228 100
226 48.6 22.3 33.5#
229 19.8 15.8 23.6





#83
Chrysene
Concen: 10.660 ng
RT: 13.992 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38

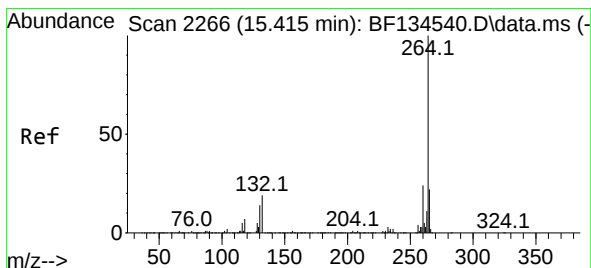
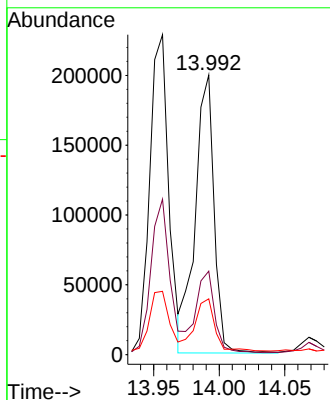
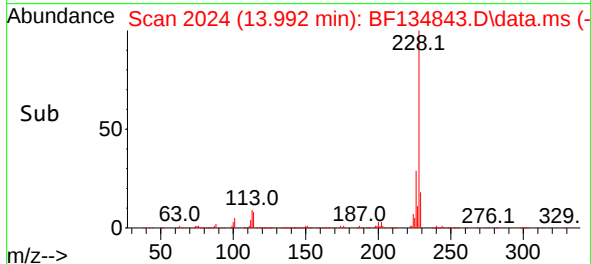
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z60-61-Q



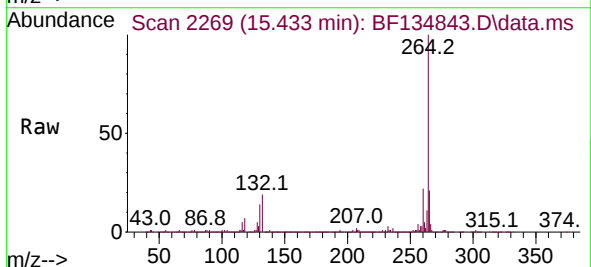
Tgt Ion:228 Resp: 199373
Ion Ratio Lower Upper
228 100
226 29.8 24.5 36.7
229 20.0 15.8 23.8

Manual Integrations
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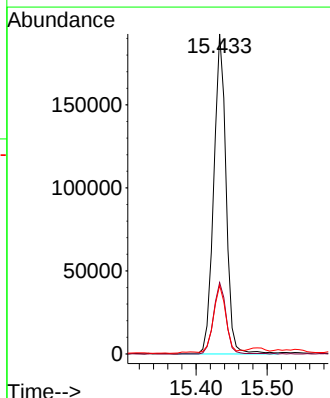
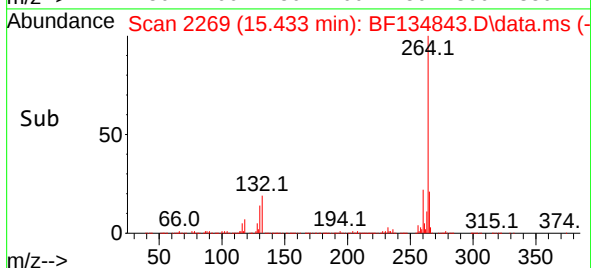
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023

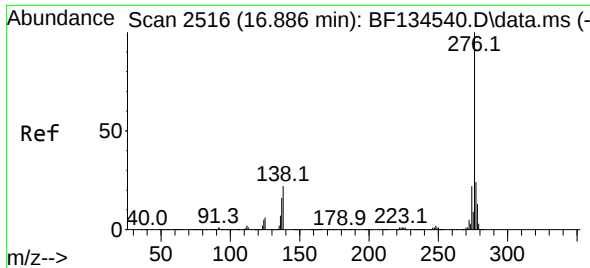


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 2269
Delta R.T. -0.006 min
Lab File: BF134843.D
Acq: 18 Aug 2023 16:38



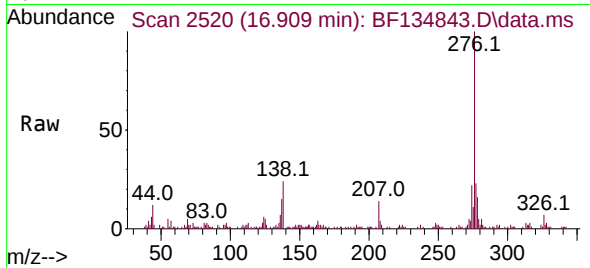
Tgt Ion:264 Resp: 232397
Ion Ratio Lower Upper
264 100
260 22.3 18.4 27.6
265 21.4 15.8 23.8





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.820 ng
 RT: 16.909 min Scan# 2197
 Delta R.T. -0.018 min
 Lab File: BF134843.D
 Acq: 18 Aug 2023 16:38

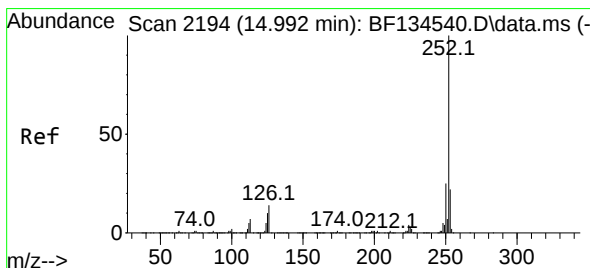
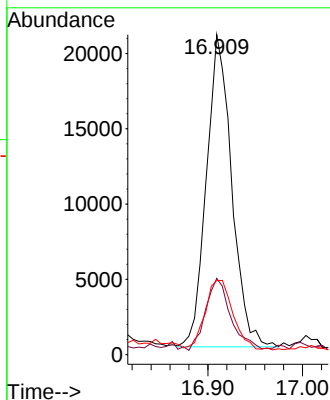
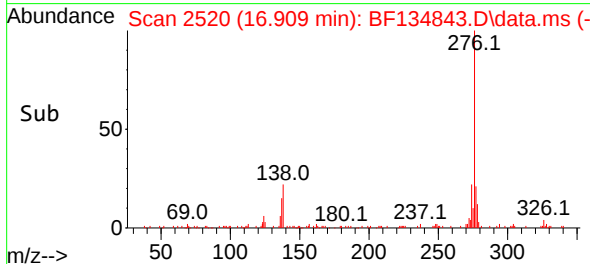
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB05-Z60-61-Q



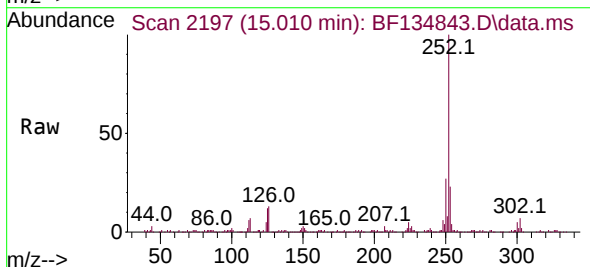
Tgt Ion:276 Resp: 3854
 Ion Ratio Lower Upper
 276 100
 138 23.2 14.2 21.4
 277 25.0 19.9 29.9

Manual Integrations
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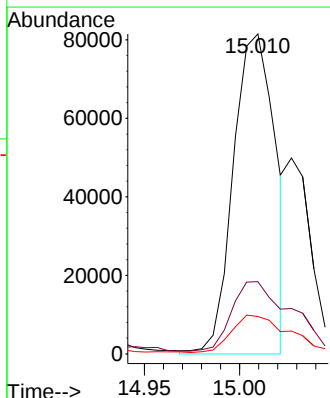
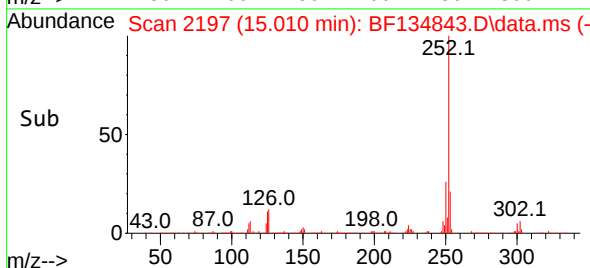
Reviewed By :Yogesh Patel 08/21/2023
 Supervised By :mohammad ahmed 08/21/2023

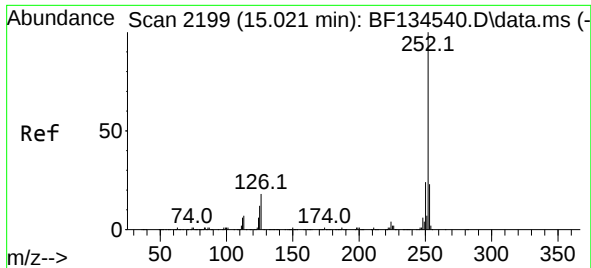


#88
 Benzo(b)fluoranthene
 Concen: 8.814 ng m
 RT: 15.010 min Scan# 2197
 Delta R.T. 0.000 min
 Lab File: BF134843.D
 Acq: 18 Aug 2023 16:38



Tgt Ion:252 Resp: 124920
 Ion Ratio Lower Upper
 252 100
 253 22.6 17.3 25.9
 125 11.7 6.0 9.0





#89

Benzo(k)fluoranthene

Concen: 3.363 ng m

RT: 15.027 min Scan# 2199

Delta R.T. -0.012 min

Lab File: BF134843.D

Acq: 18 Aug 2023 16:38

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z60-61-Q

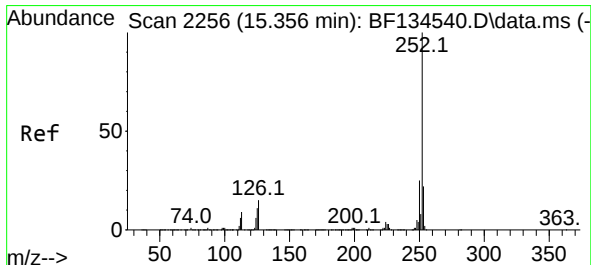
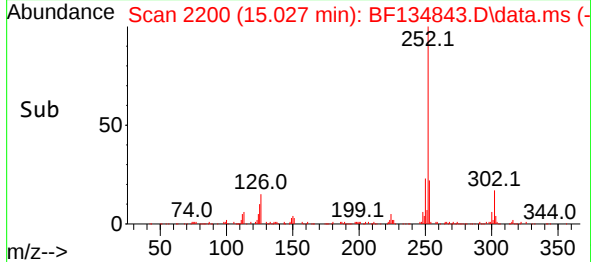
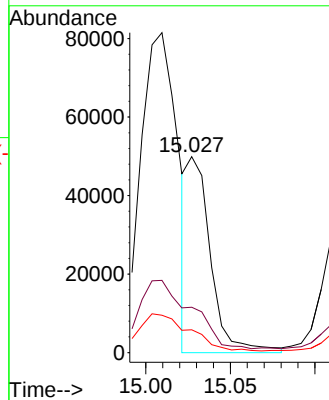
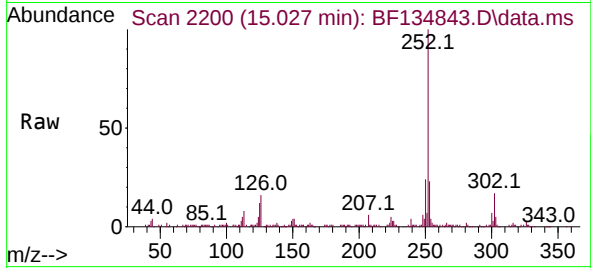
Tgt Ion:252 Resp: 47480
 Ion Ratio Lower Upper
 252 100
 253 23.2 17.9 26.9
 125 11.7 6.3 9.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2023

Supervised By :mohammad ahmed 08/21/2023



#90

Benzo(a)pyrene

Concen: 10.876 ng

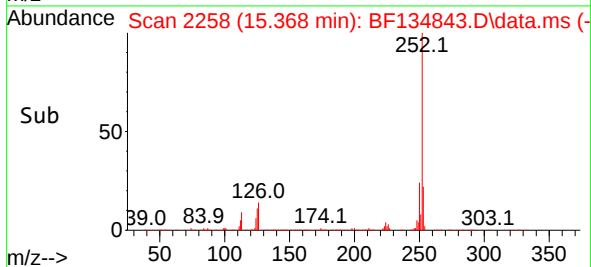
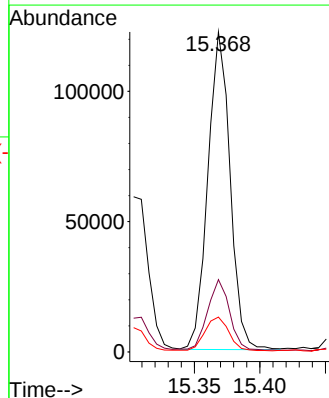
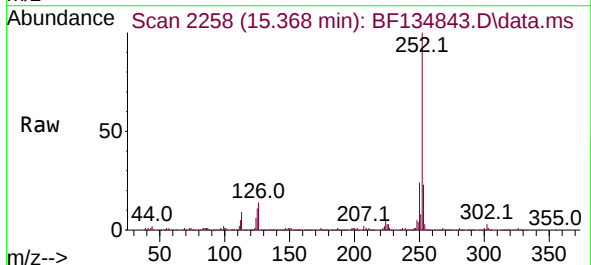
RT: 15.368 min Scan# 2258

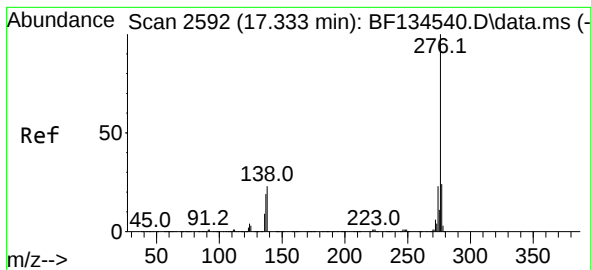
Delta R.T. -0.012 min

Lab File: BF134843.D

Acq: 18 Aug 2023 16:38

Tgt Ion:252 Resp: 143723
 Ion Ratio Lower Upper
 252 100
 253 22.6 17.0 25.4
 125 10.9 6.2 9.4





#92

Benzo(g,h,i)perylene

Concen: 3.970 ng

RT: 17.362 min Scan# 2597

Delta R.T. -0.012 min

Lab File: BF134843.D

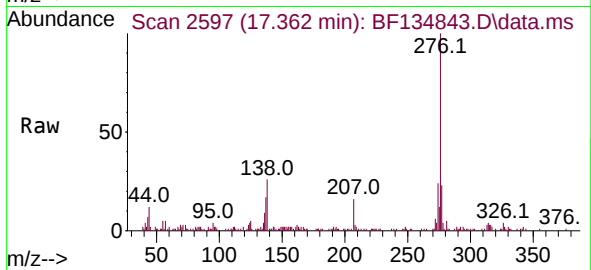
Acq: 18 Aug 2023 16:38

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z60-61-Q



Tgt Ion:	276	Resp:	44726
Ion Ratio	Lower	Upper	
276	100		
277	23.2	19.0	28.6
138	25.6	12.2	18.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2023

Supervised By :mohammad ahmed 08/21/2023

