

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082423\
 Data File : BF134929.D
 Acq On : 24 Aug 2023 17:49
 Operator : CG\JU
 Sample : 04093-02DL 100X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB04-Z52-53DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/25/2023
 Supervised By :mohammad ahmed 08/25/2023

Quant Time: Aug 25 01:21:29 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 22 19:33:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	92014	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	325323	20.000	ng	0.00
39) Acenaphthene-d10	9.833	164	160182	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	287357	20.000	ng	0.00
76) Chrysene-d12	13.986	240	232348	20.000	ng	0.00
86) Perylene-d12	15.462	264	194383	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	2746	0.476	ng	0.00
7) Phenol-d6	6.434	99	4627	0.628	ng	0.00
23) Nitrobenzene-d5	7.351	82	3399m	0.576	ng	-0.01
42) 2,4,6-Tribromophenol	10.627	330	646	0.342	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	7545	0.728	ng	0.00
79) Terphenyl-d14	12.921	244	9573	0.567	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.116	128	5421085	333.722	ng	97
37) 2-Methylnaphthalene	8.798	142	1663591	153.565	ng	96
38) 1-Methylnaphthalene	8.892	142	1103974	108.983	ng	100
46) 1,1'-Biphenyl	9.251	154	272832	21.574	ng	98
49) Acenaphthylene	9.692	152	168759	11.603	ng	# 92
52) Acenaphthene	9.869	154	721377	78.733	ng	99
55) Dibenzofuran	10.039	168	61048	4.576	ng	# 84
58) Fluorene	10.386	166	419618	41.474	ng	99
71) Phenanthrene	11.357	178	1593906	105.851	ng	99
72) Anthracene	11.404	178	511127	33.129	ng	99
75) Fluoranthene	12.551	202	689766	48.345	ng	98
78) Pyrene	12.780	202	1020787	41.437	ng	100
81) Benzo(a)anthracene	13.974	228	415291m	26.197	ng	
83) Chrysene	14.010	228	331113	21.169	ng	99
87) Indeno(1,2,3-cd)pyrene	16.951	276	64755	4.661	ng	97
88) Benzo(b)fluoranthene	15.027	252	191999m	17.507	ng	
89) Benzo(k)fluoranthene	15.051	252	65711m	6.102	ng	
90) Benzo(a)pyrene	15.398	252	221773	20.257	ng	99
92) Benzo(g,h,i)perylene	17.404	276	72090	6.264	ng	98

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

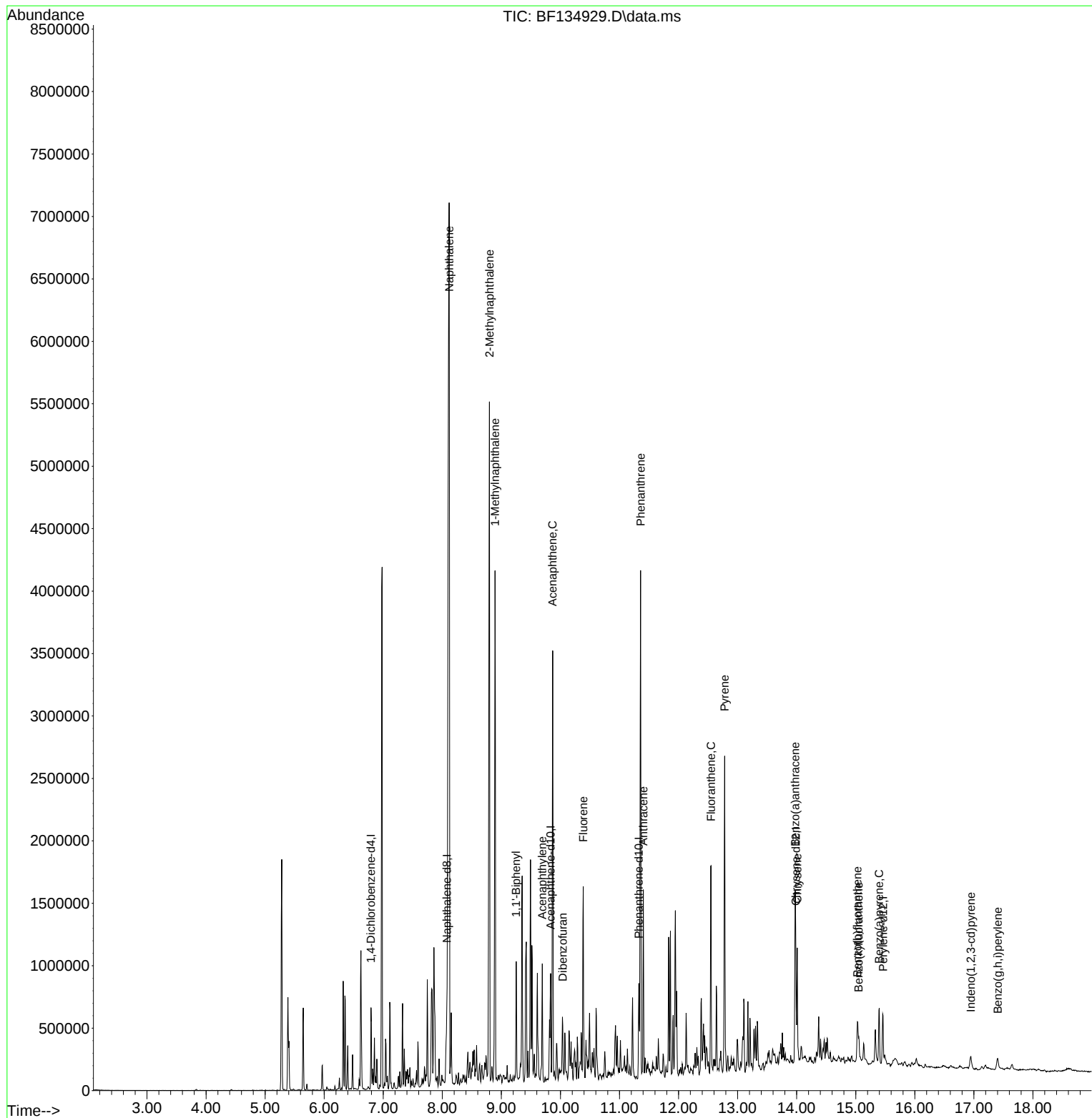
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082423\
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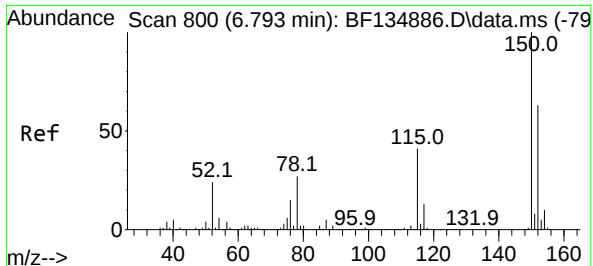
Instrument :
BNA_F
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NEVINS-SB04-Z52-53DL

Quant Time: Aug 25 01:21:29 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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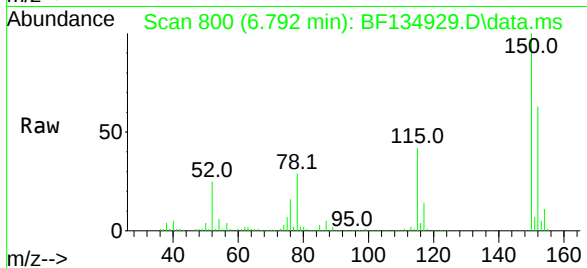
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 800
Delta R.T. -0.001 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

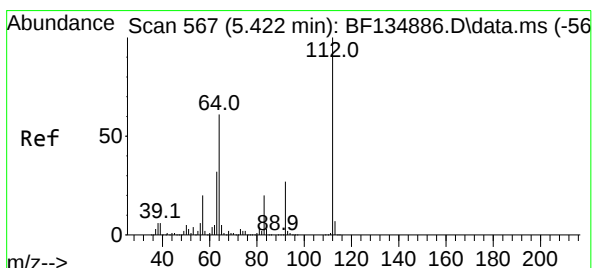
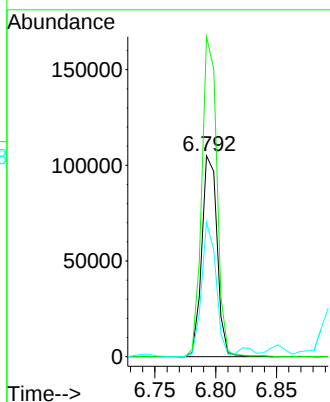
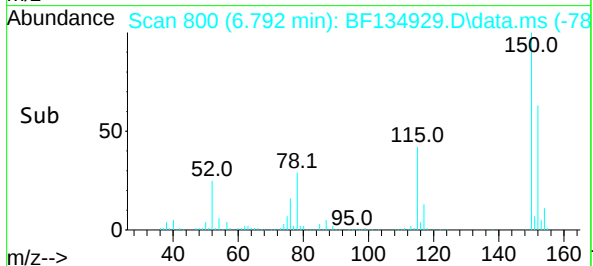
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z52-53DL



Tgt Ion:152 Resp: 92014
Ion Ratio Lower Upper
152 100
150 159.2 126.1 189.1
115 66.9 51.1 76.7

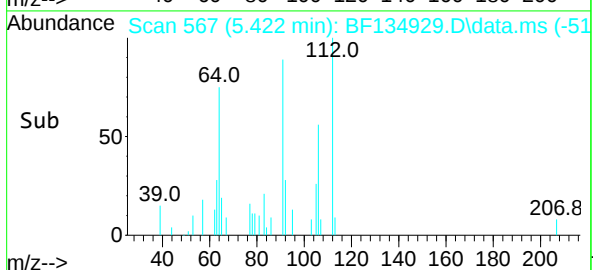
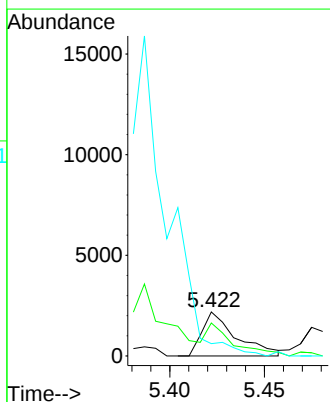
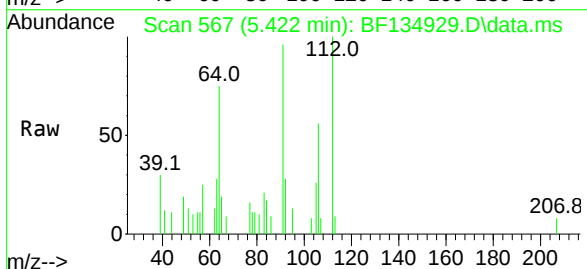
Manual Integrations
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Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023



#5
2-Fluorophenol
Concen: 0.476 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.000 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

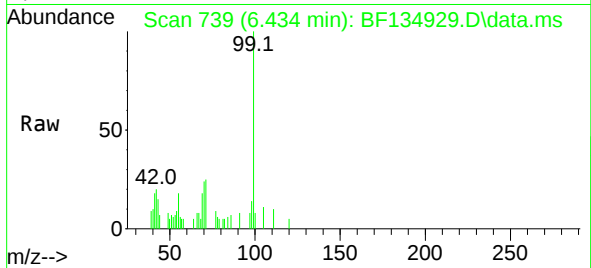
Tgt Ion:112 Resp: 2746
Ion Ratio Lower Upper
112 100
64 75.0 48.6 73.0#
63 27.9 25.7 38.5





#7
Phenol-d6
Concen: 0.628 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

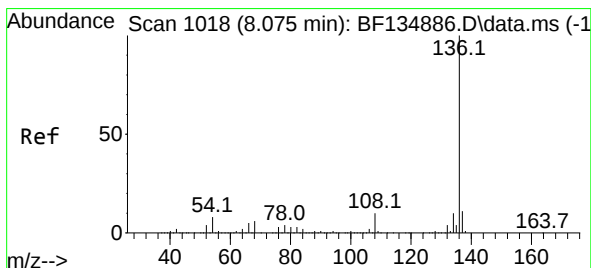
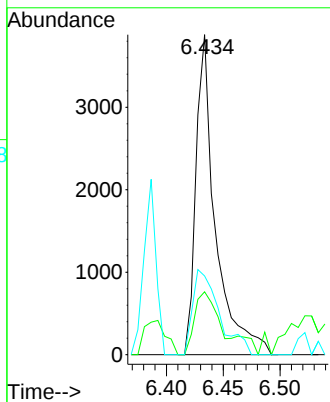
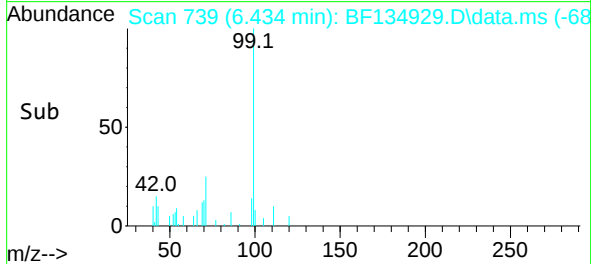
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z52-53DL



Tgt Ion: 99 Resp: 462
Ion Ratio Lower Upper
99 100
42 19.6 14.6 22.0
71 24.6 27.6 41.4

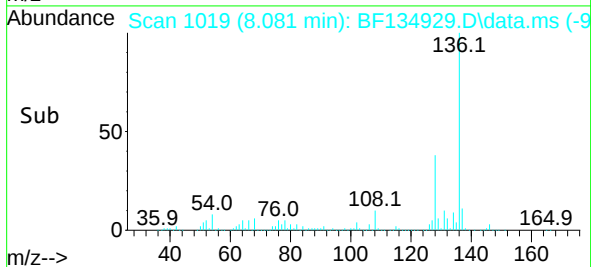
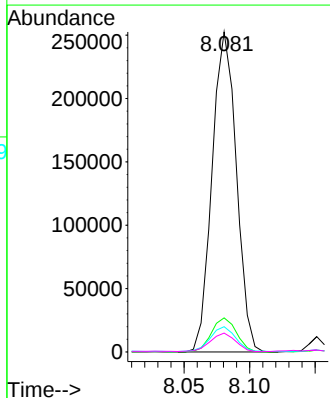
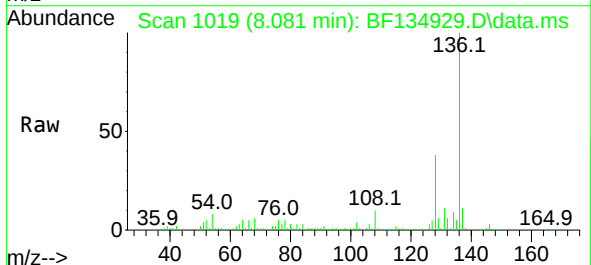
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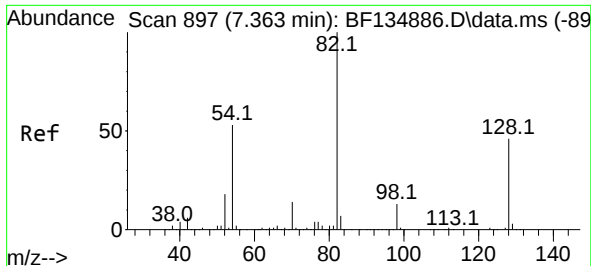
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. 0.006 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

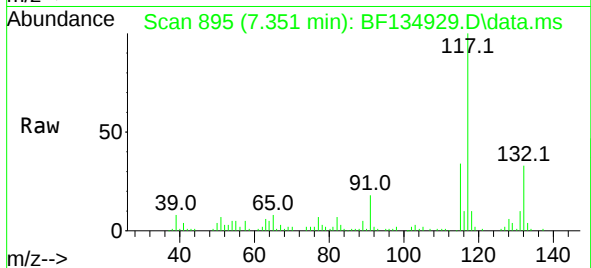
Tgt Ion:136 Resp: 325323
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 7.9 6.6 9.8
68 5.9 5.0 7.4





#23
Nitrobenzene-d5
Concen: 0.576 ng m
RT: 7.351 min Scan# 897
Delta R.T. -0.012 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

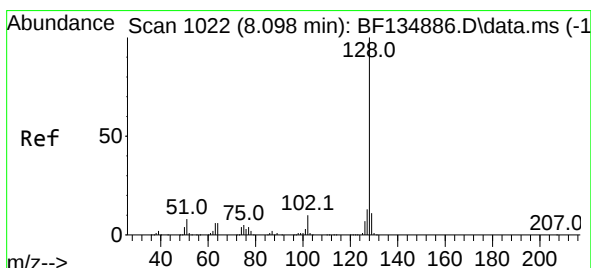
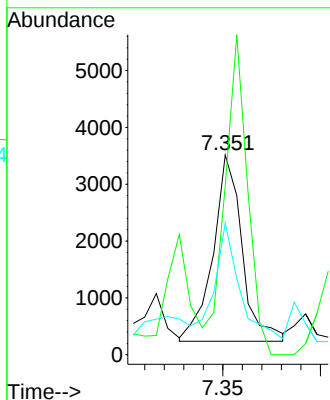
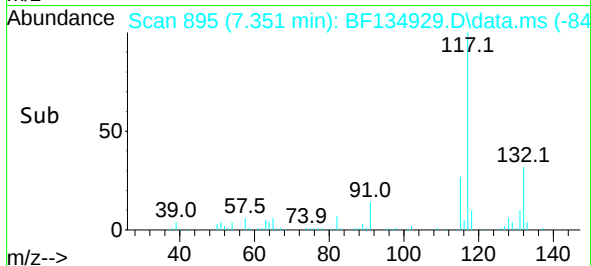
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z52-53DL



Tgt Ion: 82 Resp: 3395
Ion Ratio Lower Upper
82 100
128 84.5 36.6 54.8
54 65.9 42.6 63.8

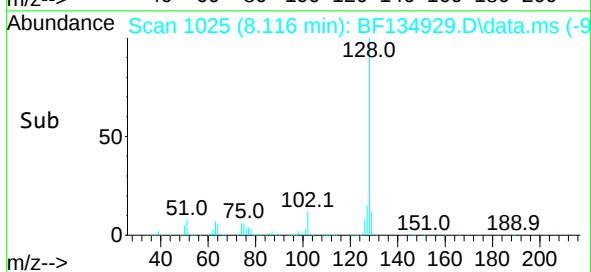
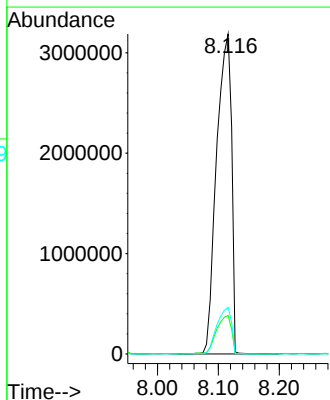
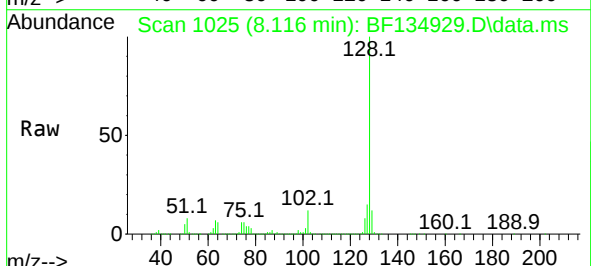
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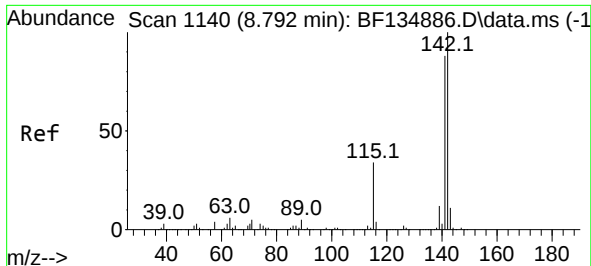
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023



#31
Naphthalene
Concen: 333.722 ng
RT: 8.116 min Scan# 1025
Delta R.T. 0.018 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

Tgt Ion:128 Resp: 5421085
Ion Ratio Lower Upper
128 100
129 12.0 9.0 13.4
127 14.6 10.6 16.0





#37

2-Methylnaphthalene

Concen: 153.565 ng

RT: 8.798 min Scan# 1140

Delta R.T. 0.006 min

Lab File: BF134929.D

Acq: 24 Aug 2023 17:49

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z52-53DL

Tgt Ion:142 Resp: 166359

Ion Ratio Lower Upper

142 100

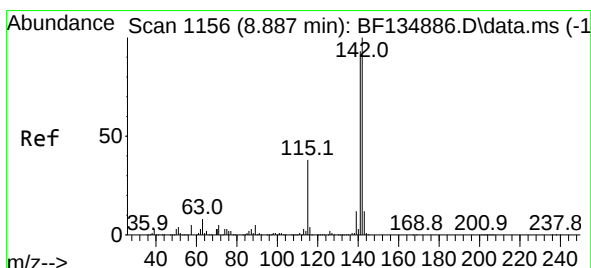
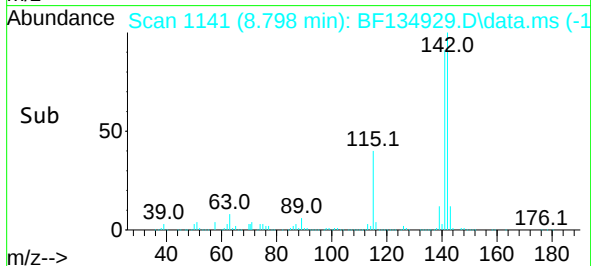
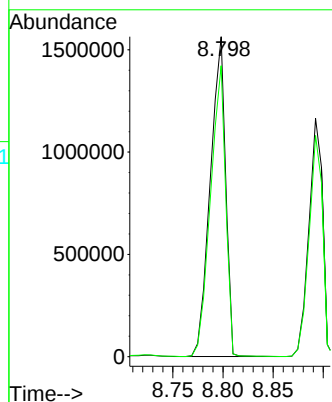
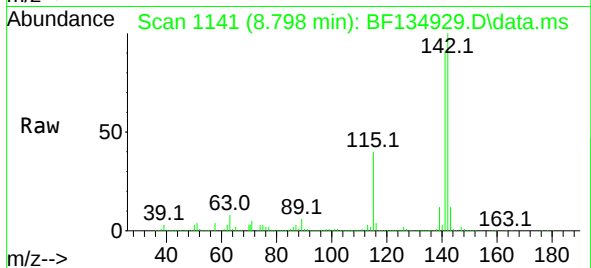
141 91.0 70.2 105.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/25/2023

Supervised By :mohammad ahmed 08/25/2023



#38

1-Methylnaphthalene

Concen: 108.983 ng

RT: 8.892 min Scan# 1157

Delta R.T. 0.006 min

Lab File: BF134929.D

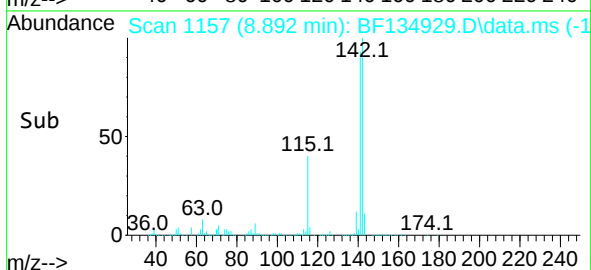
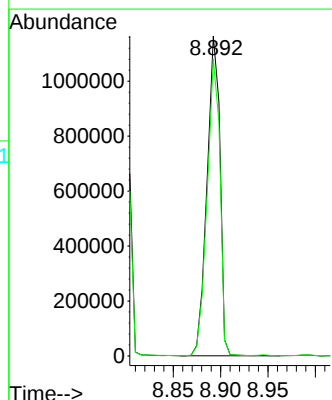
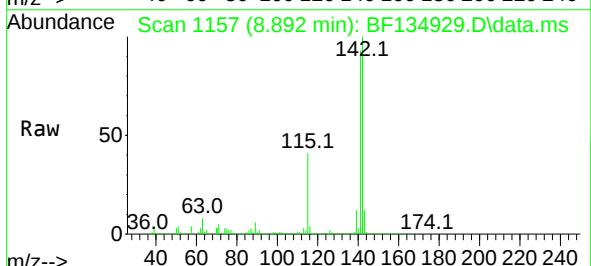
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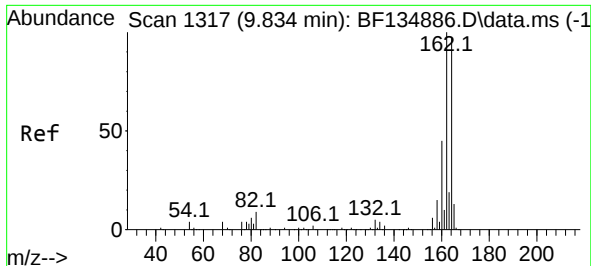
Tgt Ion:142 Resp: 1103974

Ion Ratio Lower Upper

142 100

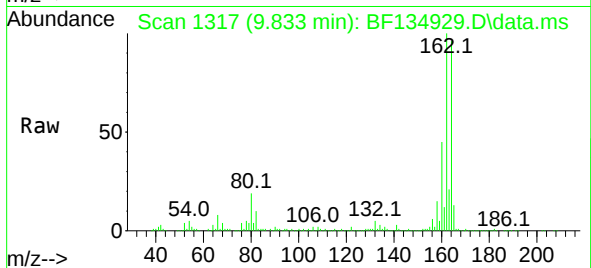
141 92.8 74.1 111.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 1317
Delta R.T. -0.000 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

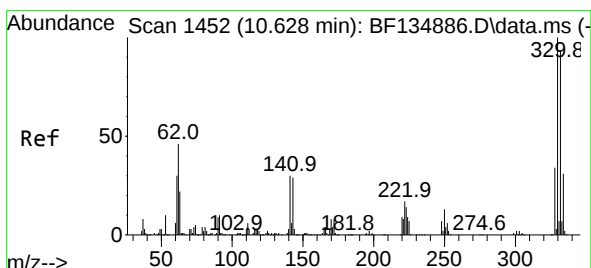
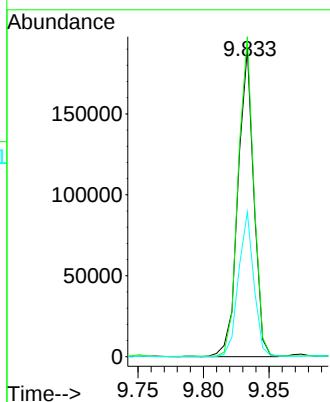
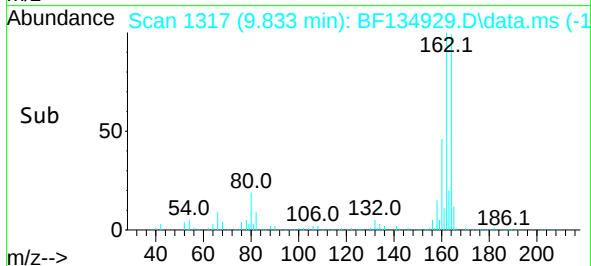
Instrument :
BNA_F
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NEVINS-SB04-Z52-53DL



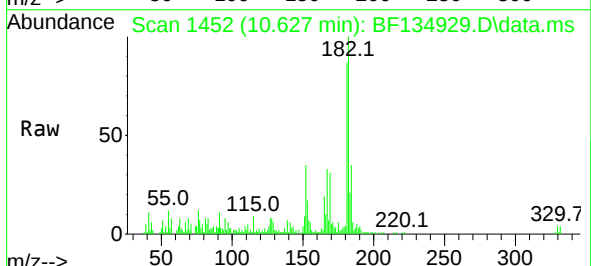
Tgt Ion:164 Resp: 16018
Ion Ratio Lower Upper
164 100
162 104.0 82.6 123.8
160 47.0 37.0 55.4

Manual Integrations
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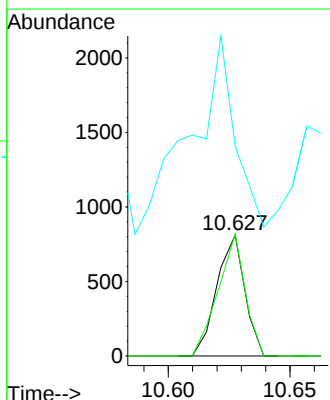
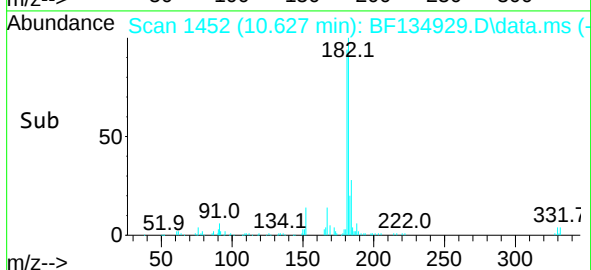
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023

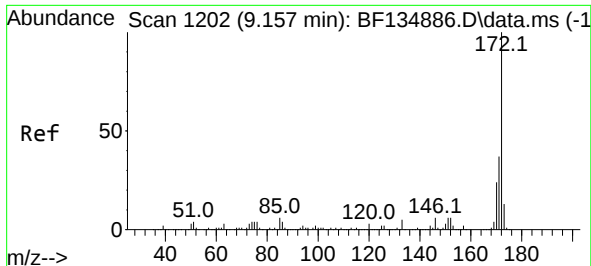


#42
2,4,6-Tribromophenol
Concen: 0.342 ng
RT: 10.627 min Scan# 1452
Delta R.T. -0.000 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49



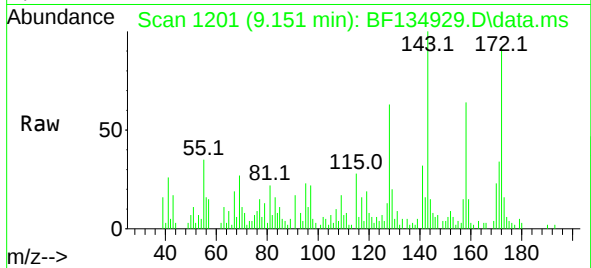
Tgt Ion:330 Resp: 646
Ion Ratio Lower Upper
330 100
332 98.0 76.3 114.5
141 269.2 23.4 35.2#





#45
2-Fluorobiphenyl
Concen: 0.728 ng
RT: 9.151 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

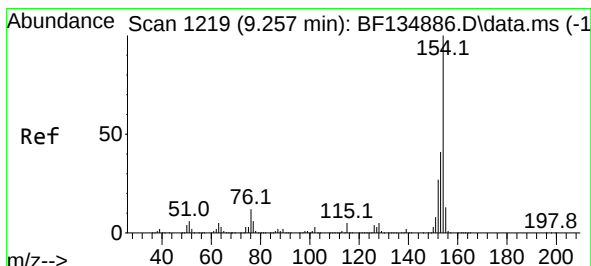
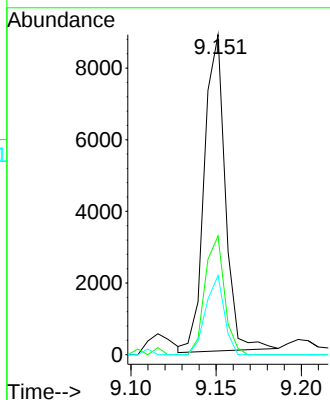
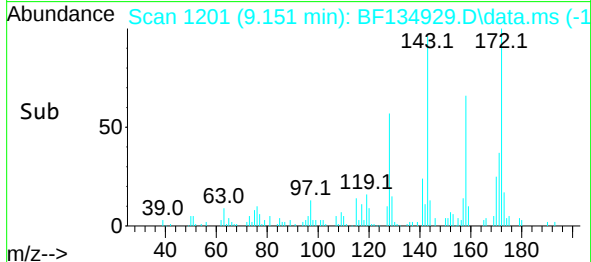
Instrument :
BNA_F
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NEVINS-SB04-Z52-53DL



Tgt Ion:172 Resp: 7549
Ion Ratio Lower Upper
172 100
171 37.1 29.4 44.0
170 24.8 19.6 29.4

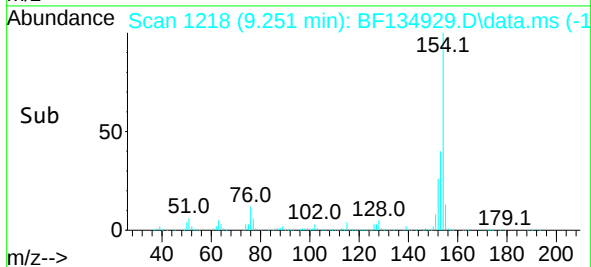
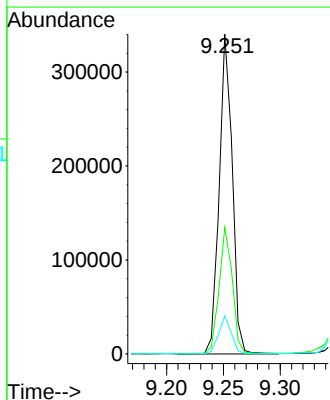
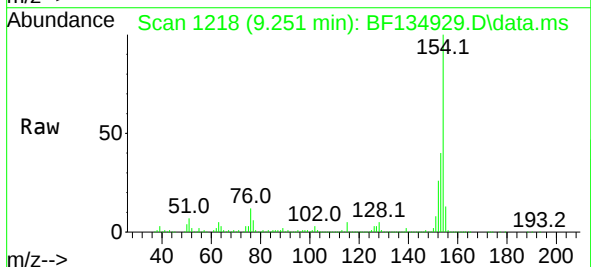
Manual Integrations
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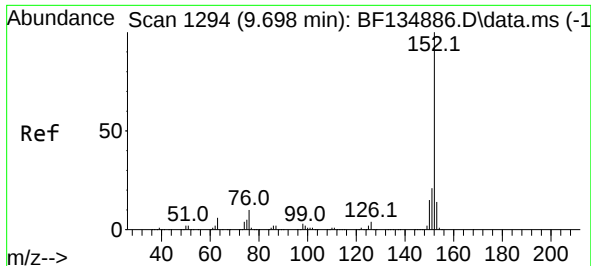
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023



#46
1,1'-Biphenyl
Concen: 21.574 ng
RT: 9.251 min Scan# 1218
Delta R.T. -0.006 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

Tgt Ion:154 Resp: 272832
Ion Ratio Lower Upper
154 100
153 39.6 21.3 61.3
76 11.8 0.0 31.8





#49

Acenaphthylene

Concen: 11.603 ng

RT: 9.692 min Scan# 1294

Delta R.T. -0.006 min

Lab File: BF134929.D

Acq: 24 Aug 2023 17:49

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z52-53DL

Tgt Ion:152 Resp: 168759

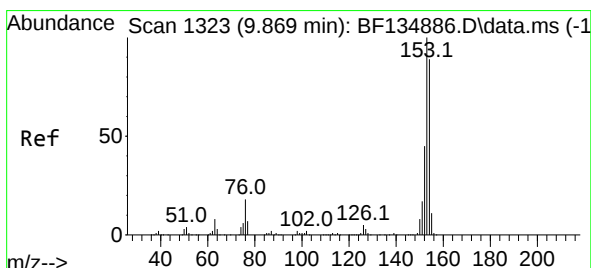
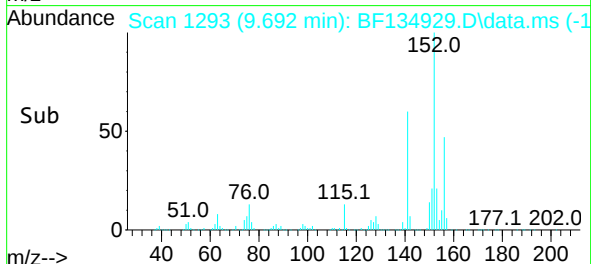
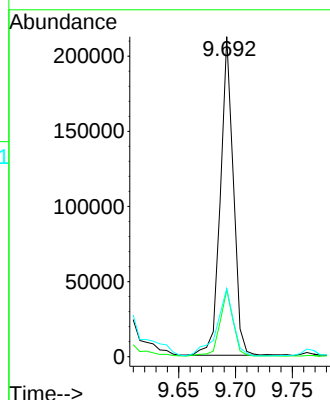
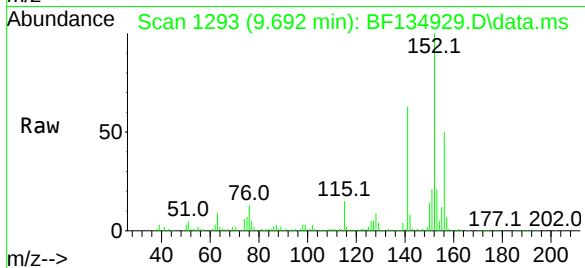
Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.5	24.7
153	21.3	11.3	16.9

Manual Integrations

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Reviewed By :Yogesh Patel 08/25/2023

Supervised By :mohammad ahmed 08/25/2023



#52

Acenaphthene

Concen: 78.733 ng

RT: 9.869 min Scan# 1323

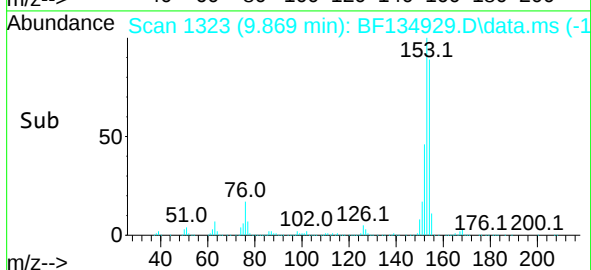
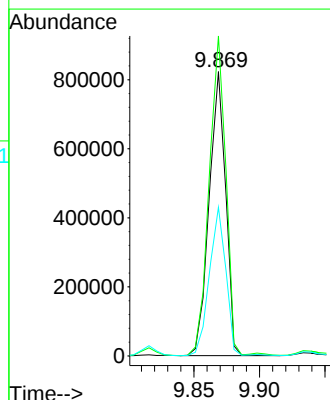
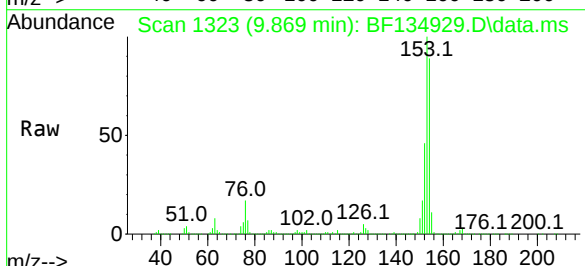
Delta R.T. -0.000 min

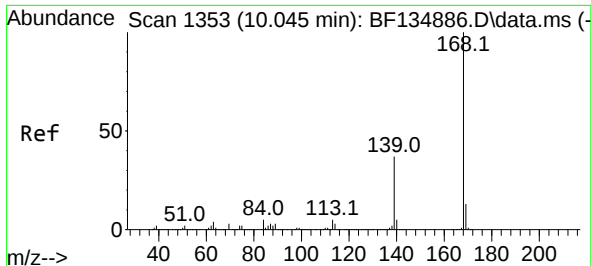
Lab File: BF134929.D

Acq: 24 Aug 2023 17:49

Tgt Ion:154 Resp: 721377

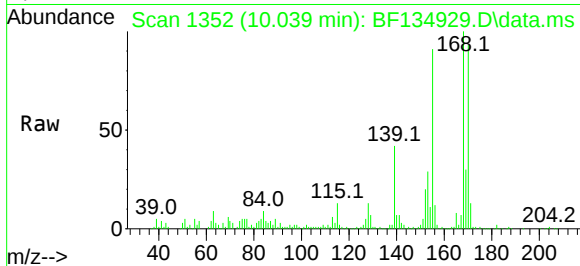
Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.6	134.4
152	52.3	40.5	60.7





#55
Dibenzenofuran
Concen: 4.576 ng
RT: 10.039 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

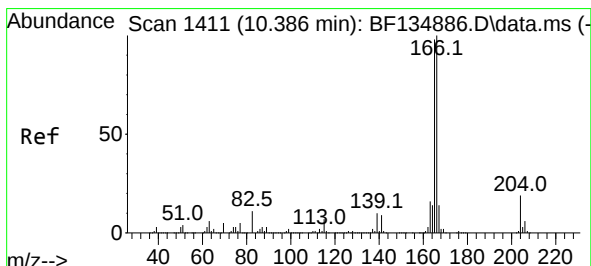
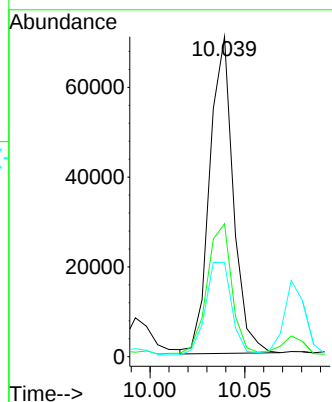
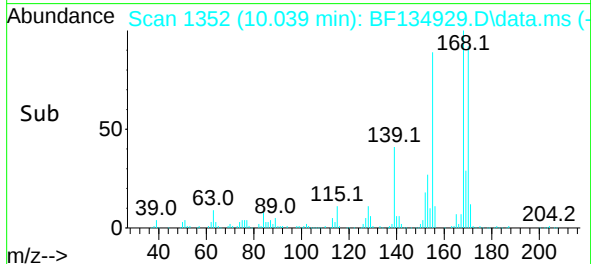
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z52-53DL



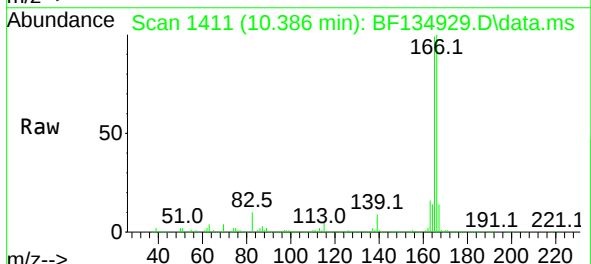
Tgt Ion:168 Resp: 61048
Ion Ratio Lower Upper
168 100
139 41.6 29.5 44.3
169 29.5 10.7 16.1

Manual Integrations
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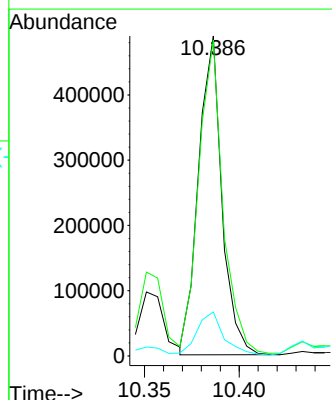
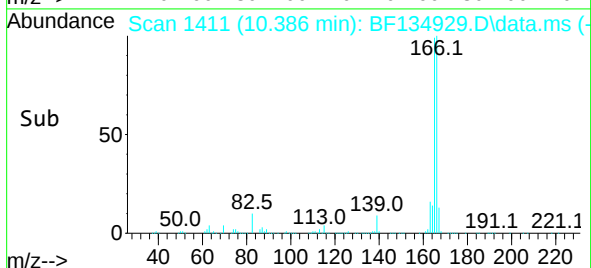
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023

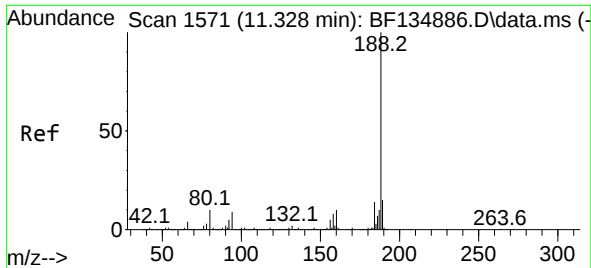


#58
Fluorene
Concen: 41.474 ng
RT: 10.386 min Scan# 1411
Delta R.T. 0.000 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49



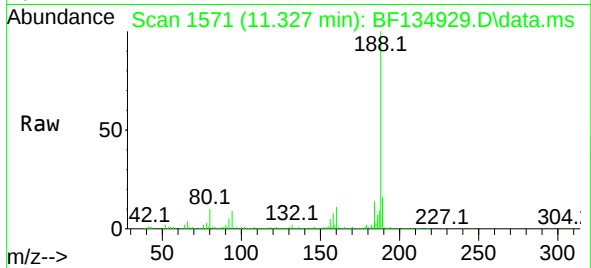
Tgt Ion:166 Resp: 419618
Ion Ratio Lower Upper
166 100
165 98.8 78.5 117.7
167 13.7 11.0 16.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

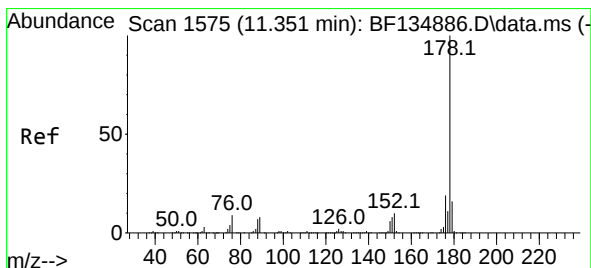
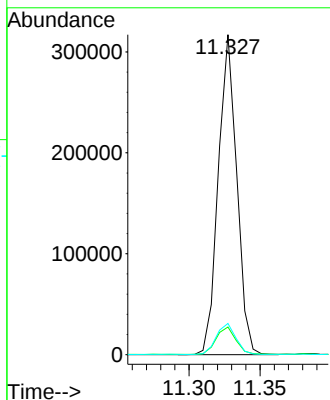
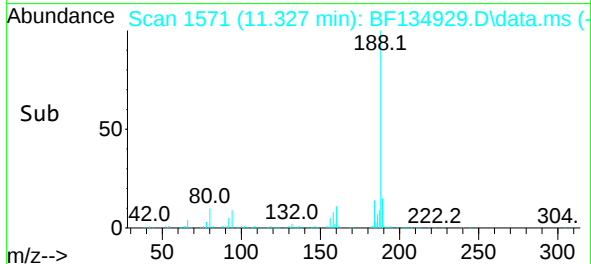
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z52-53DL



Tgt Ion:188 Resp: 28735
Ion Ratio Lower Upper
188 100
94 8.6 7.5 11.3
80 9.8 7.8 11.6

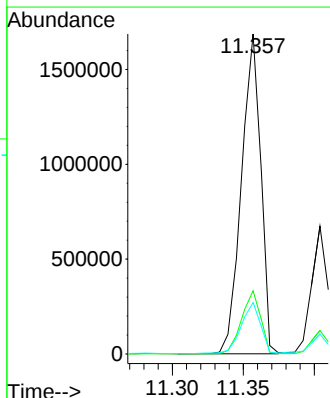
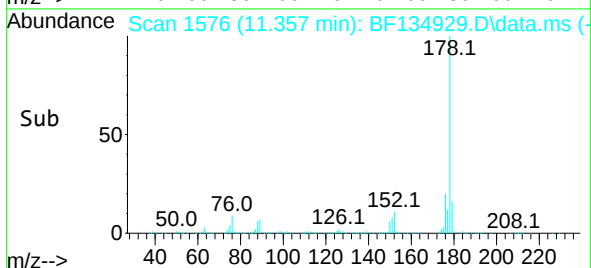
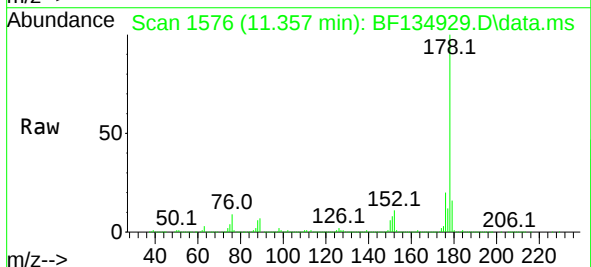
Manual Integrations
APPROVED

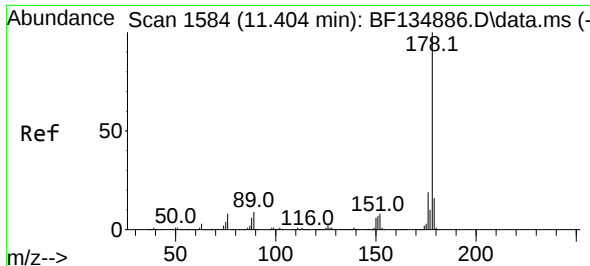
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023



#71
Phenanthrene
Concen: 105.851 ng
RT: 11.357 min Scan# 1576
Delta R.T. 0.006 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

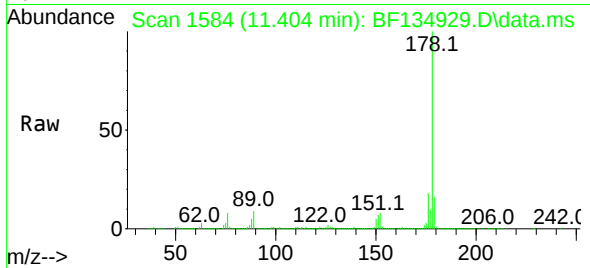
Tgt Ion:178 Resp: 1593906
Ion Ratio Lower Upper
178 100
176 19.7 15.5 23.3
179 16.1 12.6 19.0





#72
 Anthracene
 Concen: 33.129 ng
 RT: 11.404 min Scan# 1112
 Delta R.T. -0.000 min
 Lab File: BF134929.D
 Acq: 24 Aug 2023 17:49

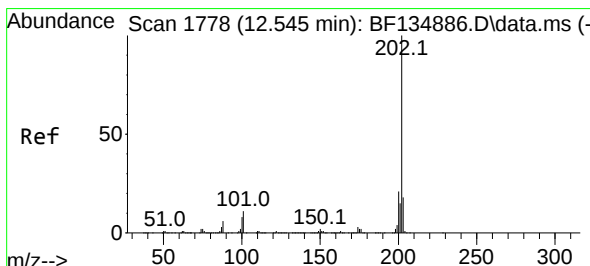
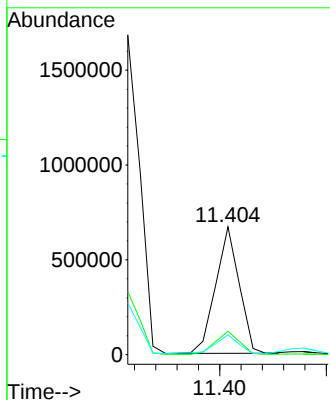
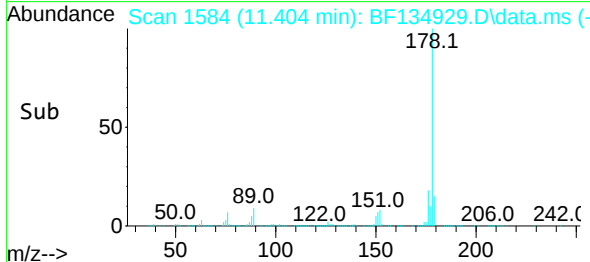
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB04-Z52-53DL



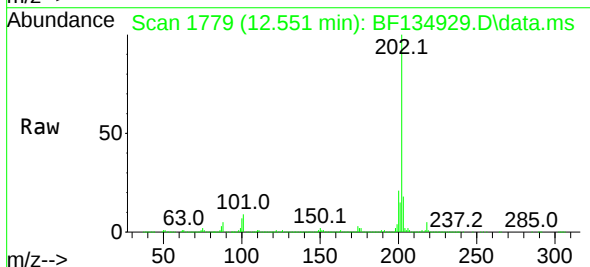
Tgt Ion:178 Resp: 51112
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.0 22.6
 179 15.5 12.5 18.7

Manual Integrations
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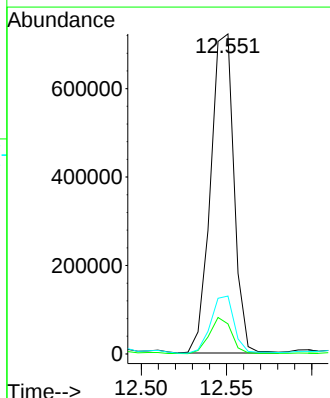
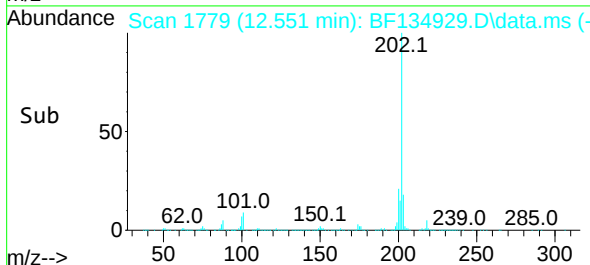
Reviewed By :Yogesh Patel 08/25/2023
 Supervised By :mohammad ahmed 08/25/2023

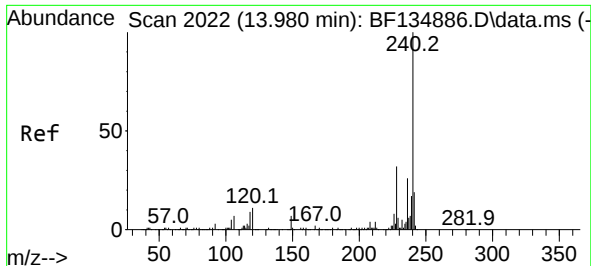


#75
 Fluoranthene
 Concen: 48.345 ng
 RT: 12.551 min Scan# 1779
 Delta R.T. 0.006 min
 Lab File: BF134929.D
 Acq: 24 Aug 2023 17:49



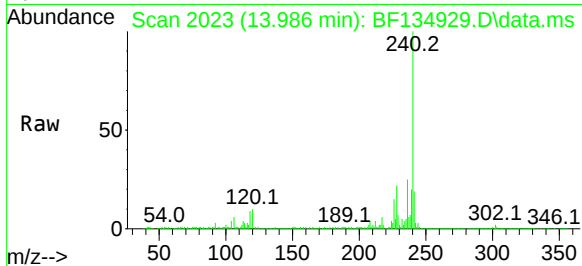
Tgt Ion:202 Resp: 689766
 Ion Ratio Lower Upper
 202 100
 101 9.4 0.0 30.5
 203 18.1 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.006 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

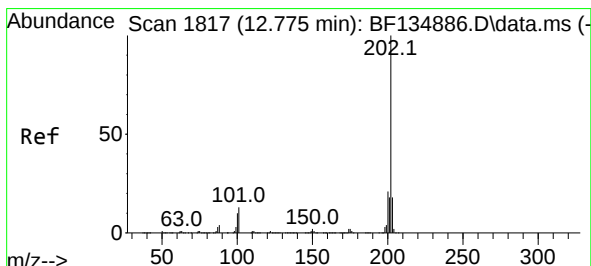
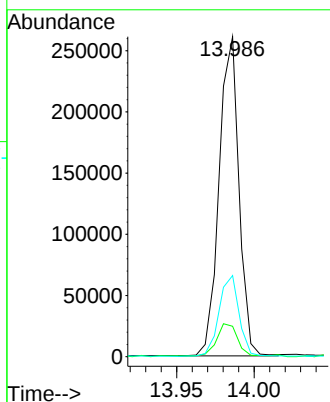
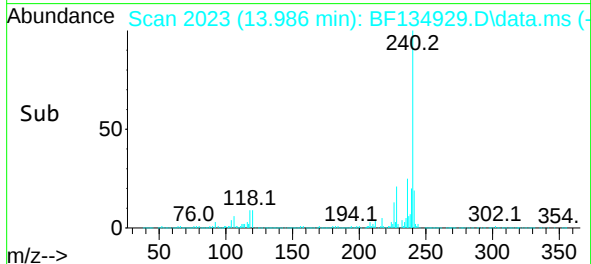
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z52-53DL



Tgt Ion:240 Resp: 232348
Ion Ratio Lower Upper
240 100
120 9.5 8.6 12.8
236 25.3 20.6 31.0

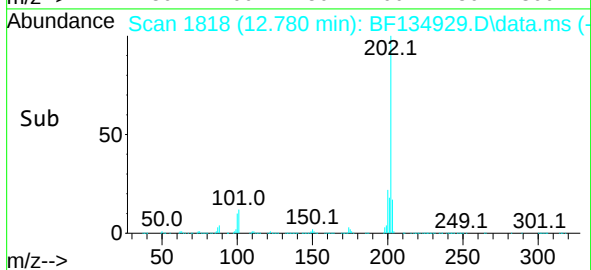
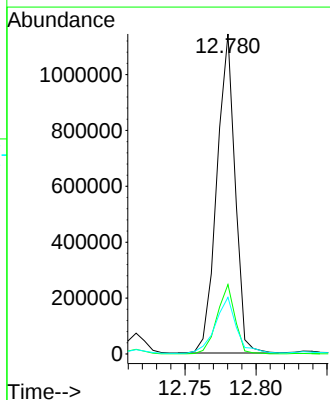
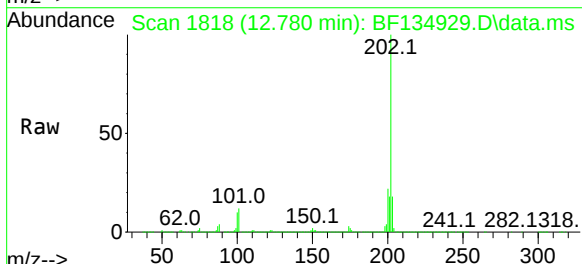
Manual Integrations
APPROVED

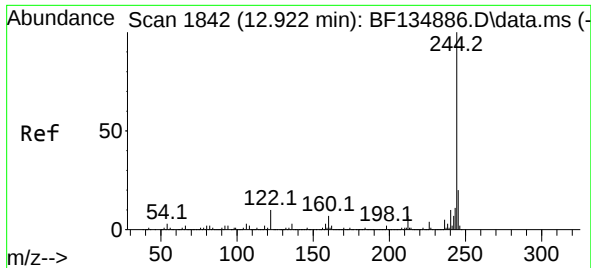
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023



#78
Pyrene
Concen: 41.437 ng
RT: 12.780 min Scan# 1818
Delta R.T. 0.006 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

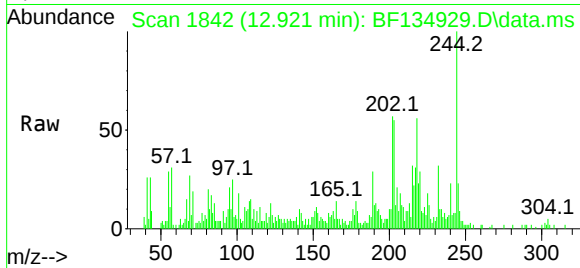
Tgt Ion:202 Resp: 1020787
Ion Ratio Lower Upper
202 100
200 21.7 17.1 25.7
203 17.7 14.2 21.2





#79
 Terphenyl-d14
 Concen: 0.567 ng
 RT: 12.921 min Scan# 1842
 Delta R.T. -0.001 min
 Lab File: BF134929.D
 Acq: 24 Aug 2023 17:49

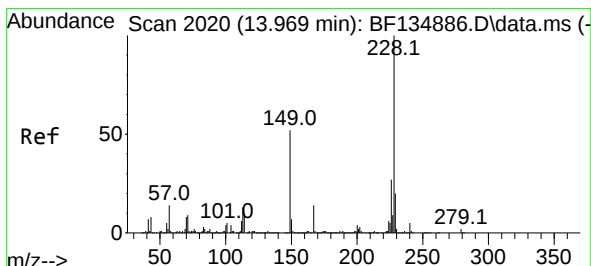
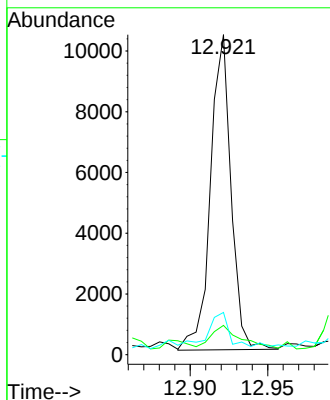
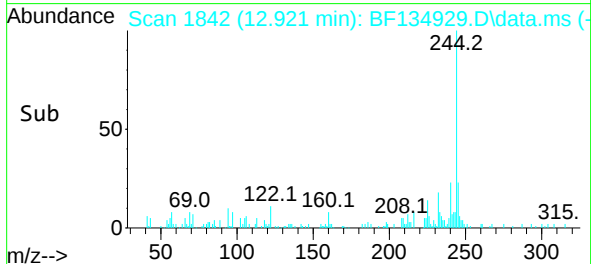
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB04-Z52-53DL



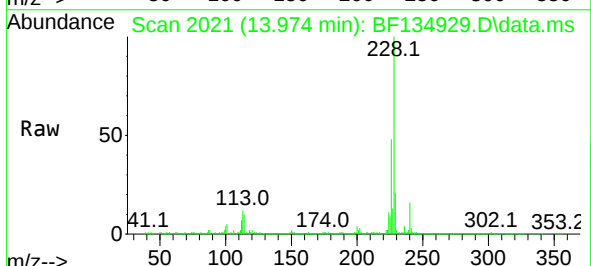
Tgt Ion:244 Resp: 957
 Ion Ratio Lower Upper
 244 100
 212 9.1 5.4 8.0
 122 13.2 8.2 12.4

Manual Integrations
 APPROVED

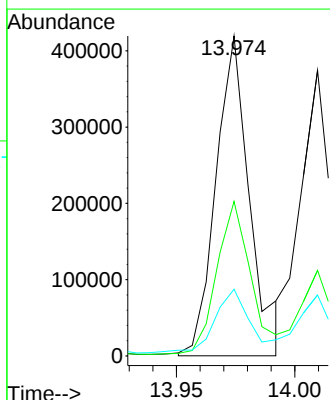
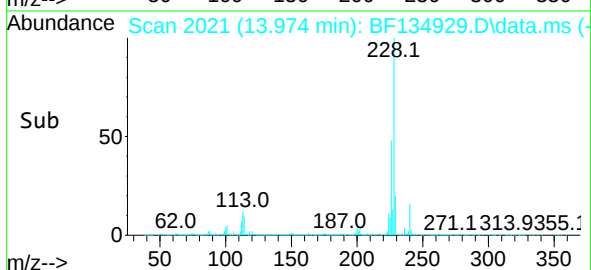
Reviewed By :Yogesh Patel 08/25/2023
 Supervised By :mohammad ahmed 08/25/2023

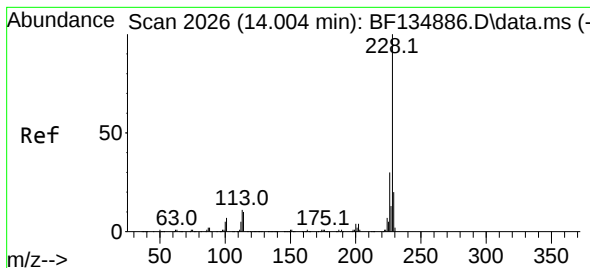


#81
 Benzo(a)anthracene
 Concen: 26.197 ng m
 RT: 13.974 min Scan# 2021
 Delta R.T. 0.006 min
 Lab File: BF134929.D
 Acq: 24 Aug 2023 17:49



Tgt Ion:228 Resp: 415291
 Ion Ratio Lower Upper
 228 100
 226 48.3 21.8 32.6
 229 20.8 15.6 23.4





#83

Chrysene

Concen: 21.169 ng

RT: 14.010 min Scan# 2026

Delta R.T. 0.006 min

Lab File: BF134929.D

Acq: 24 Aug 2023 17:49

Instrument :

BNA_F

ClientSampleId :

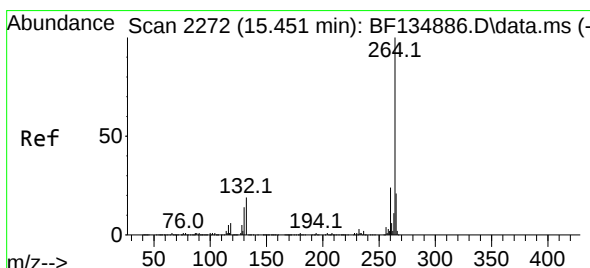
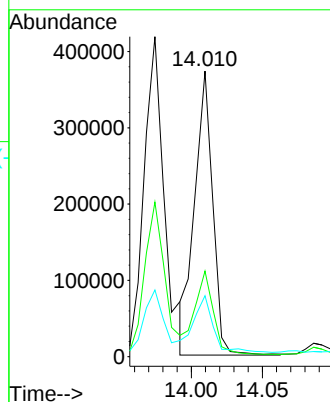
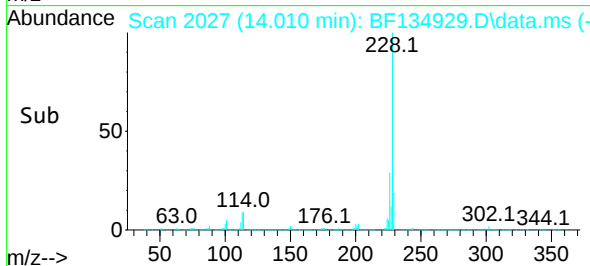
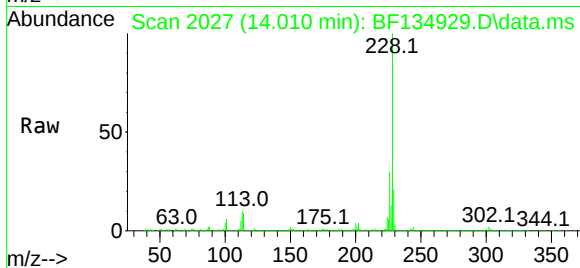
NEVINS-SB04-Z52-53DL

Tgt Ion:228 Resp: 331111
 Ion Ratio Lower Upper
 228 100
 226 30.0 24.2 36.2
 229 21.3 16.0 24.0

Manual Integrations

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Reviewed By :Yogesh Patel 08/25/2023
 Supervised By :mohammad ahmed 08/25/2023



#86

Perylene-d12

Concen: 20.000 ng

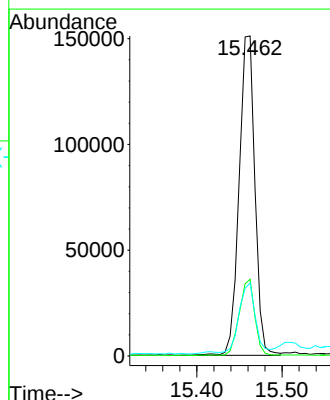
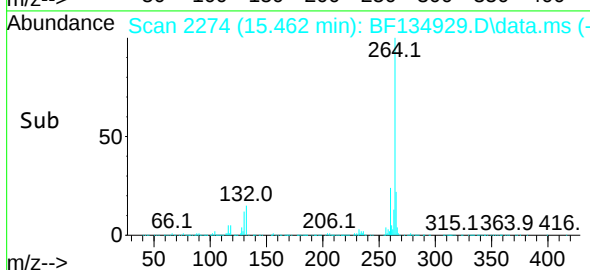
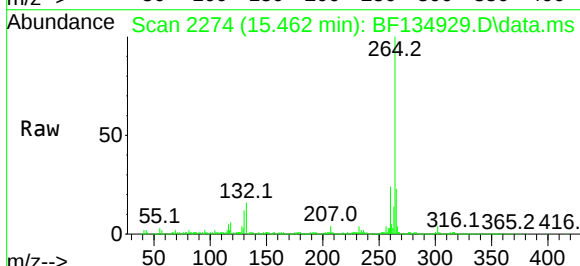
RT: 15.462 min Scan# 2274

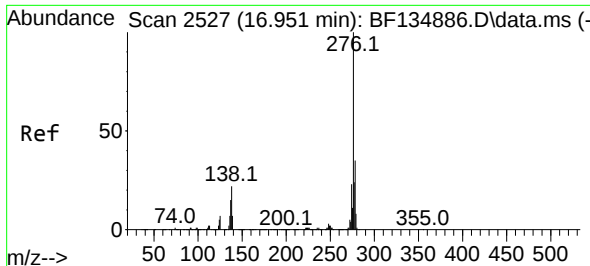
Delta R.T. 0.012 min

Lab File: BF134929.D

Acq: 24 Aug 2023 17:49

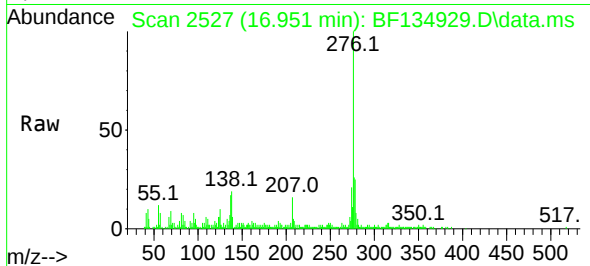
Tgt Ion:264 Resp: 194383
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.0 28.6
 265 22.8 17.1 25.7





#87
Indeno(1,2,3-cd)pyrene
Concen: 4.661 ng
RT: 16.951 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

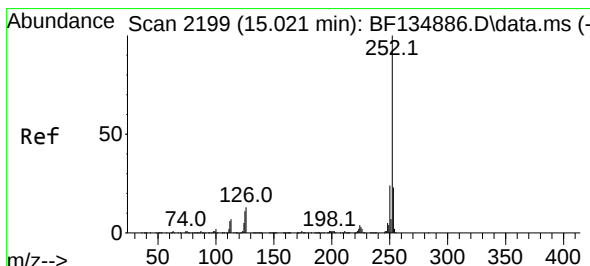
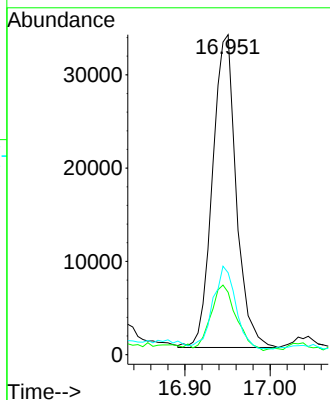
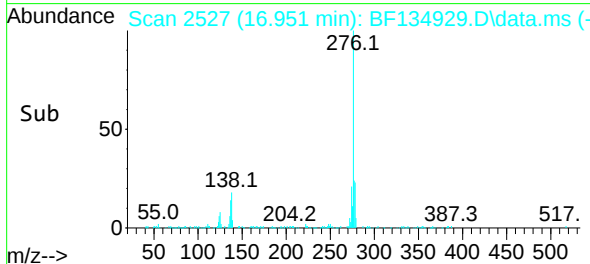
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z52-53DL



Tgt Ion:276 Resp: 6475
Ion Ratio Lower Upper
276 100
138 22.3 19.7 29.5
277 25.8 20.1 30.1

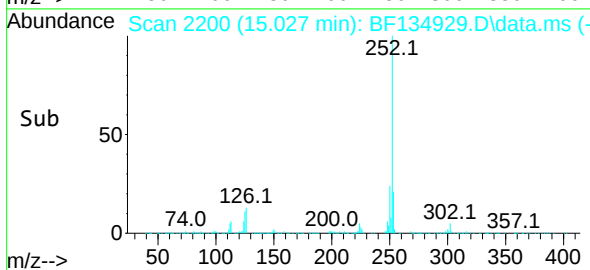
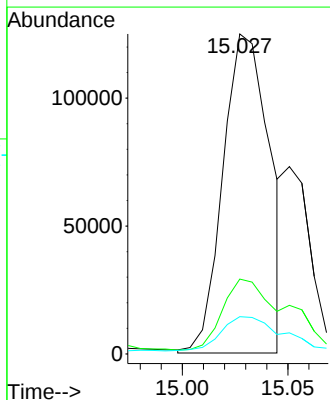
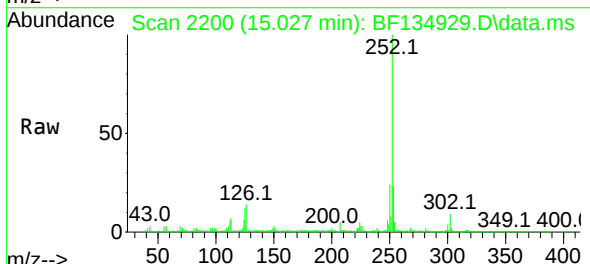
Manual Integrations
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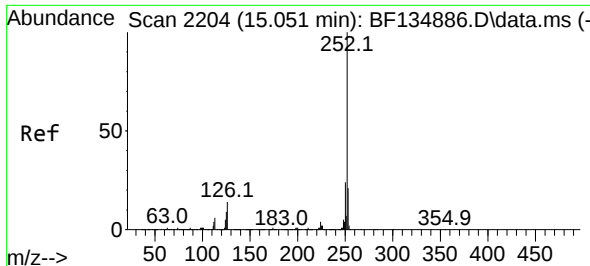
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023



#88
Benzo(b)fluoranthene
Concen: 17.507 ng m
RT: 15.027 min Scan# 2200
Delta R.T. 0.006 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

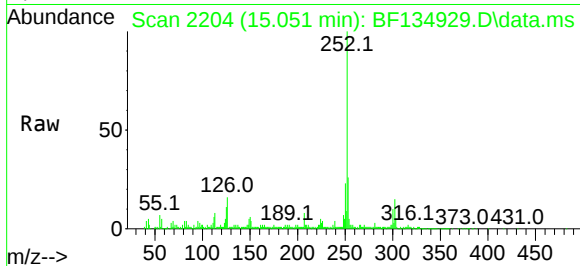
Tgt Ion:252 Resp: 191999
Ion Ratio Lower Upper
252 100
253 23.4 18.1 27.1
125 11.7 8.4 12.6





#89
Benzo(k)fluoranthene
Concen: 6.102 ng m
RT: 15.051 min Scan# 2204
Delta R.T. -0.000 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

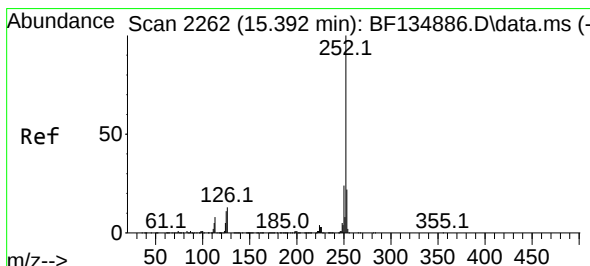
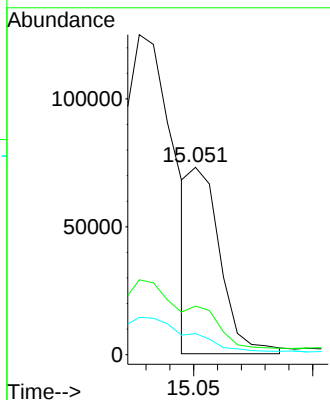
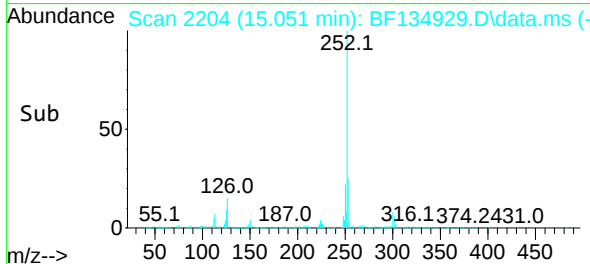
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z52-53DL



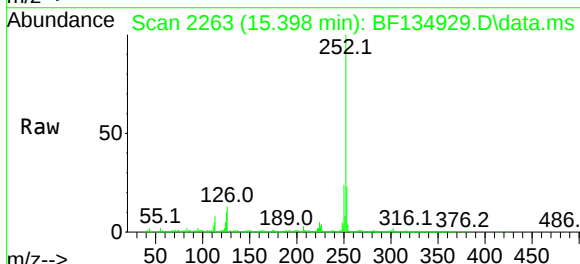
Tgt Ion:252 Resp: 65711
Ion Ratio Lower Upper
252 100
253 25.9 17.1 25.7
125 11.2 8.0 12.0

Manual Integrations
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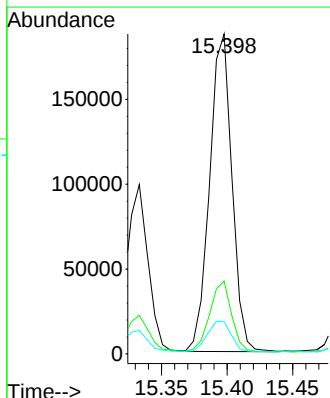
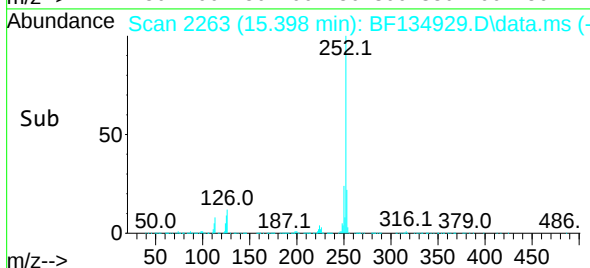
Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023

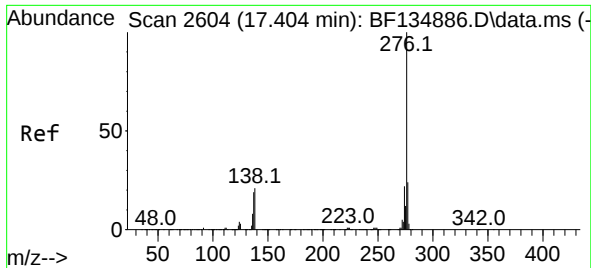


#90
Benzo(a)pyrene
Concen: 20.257 ng
RT: 15.398 min Scan# 2263
Delta R.T. 0.006 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49



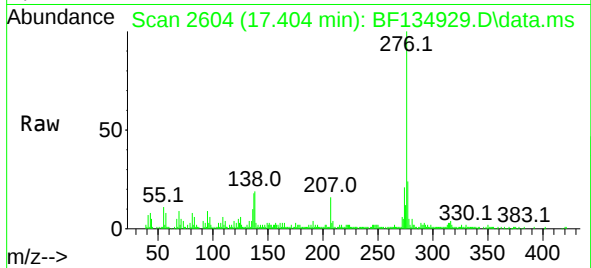
Tgt Ion:252 Resp: 221773
Ion Ratio Lower Upper
252 100
253 22.8 17.6 26.4
125 10.0 8.4 12.6





#92
Benzo(g,h,i)perylene
Concen: 6.264 ng
RT: 17.404 min Scan# 20
Delta R.T. -0.000 min
Lab File: BF134929.D
Acq: 24 Aug 2023 17:49

Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z52-53DL



Tgt Ion:276 Resp: 72090
Ion Ratio Lower Upper
276 100
277 24.0 19.2 28.8
138 18.8 17.0 25.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/25/2023
Supervised By :mohammad ahmed 08/25/2023

