

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082123\
 Data File : BM041456.D
 Acq On : 21 Aug 2023 20:06
 Operator : MA/JU
 Sample : 04075-02DL 50X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 NEVINS-SB04-Z23-24DL

Manual Integrations
 APPROVED

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

Quant Time: Aug 22 03:38:46 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 22 03:32:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.757	152	136825	20.000	ng	0.00
21) Naphthalene-d8	10.557	136	595026	20.000	ng	0.00
39) Acenaphthene-d10	14.416	164	417802	20.000	ng	0.00
64) Phenanthrene-d10	17.174	188	1001171	20.000	ng	0.00
76) Chrysene-d12	21.380	240	1009101	20.000	ng	0.00
86) Perylene-d12	23.721	264	928845	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	11696	1.422	ng	0.01
7) Phenol-d6	6.975	99	11647m	1.043	ng	0.02
23) Nitrobenzene-d5	8.957	82	7246	0.581	ng	0.02
42) 2,4,6-Tribromophenol	15.933	330	1575	0.238	ng	0.01
45) 2-Fluorobiphenyl	13.039	172	25184	0.808	ng	0.00
79) Terphenyl-d14	19.815	244	48992	0.845	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.616	128	4207864	136.013	ng	100
37) 2-Methylnaphthalene	12.227	142	1197775	53.208	ng	99
38) 1-Methylnaphthalene	12.445	142	725925	34.133	ng	100
46) 1,1'-Biphenyl	13.245	154	166075	5.267	ng	99
49) Acenaphthylene	14.139	152	137176	3.493	ng	# 93
52) Acenaphthene	14.480	154	563002	23.970	ng	99
58) Fluorene	15.474	166	336325	10.655	ng	99
71) Phenanthrene	17.221	178	1736974	32.867	ng	100
72) Anthracene	17.309	178	442559	8.258	ng	100
75) Fluoranthene	19.245	202	738953	11.744	ng	99
78) Pyrene	19.609	202	1203246	16.673	ng	100
81) Benzo(a)anthracene	21.362	228	407851	5.919	ng	96
83) Chrysene	21.415	228	351724	5.370	ng	98
88) Benzo(b)fluoranthene	23.015	252	229750	4.150	ng	# 97
90) Benzo(a)pyrene	23.615	252	278722	5.287	ng	99
92) Benzo(g,h,i)perylene	26.868	276	100082	2.035	ng	96

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

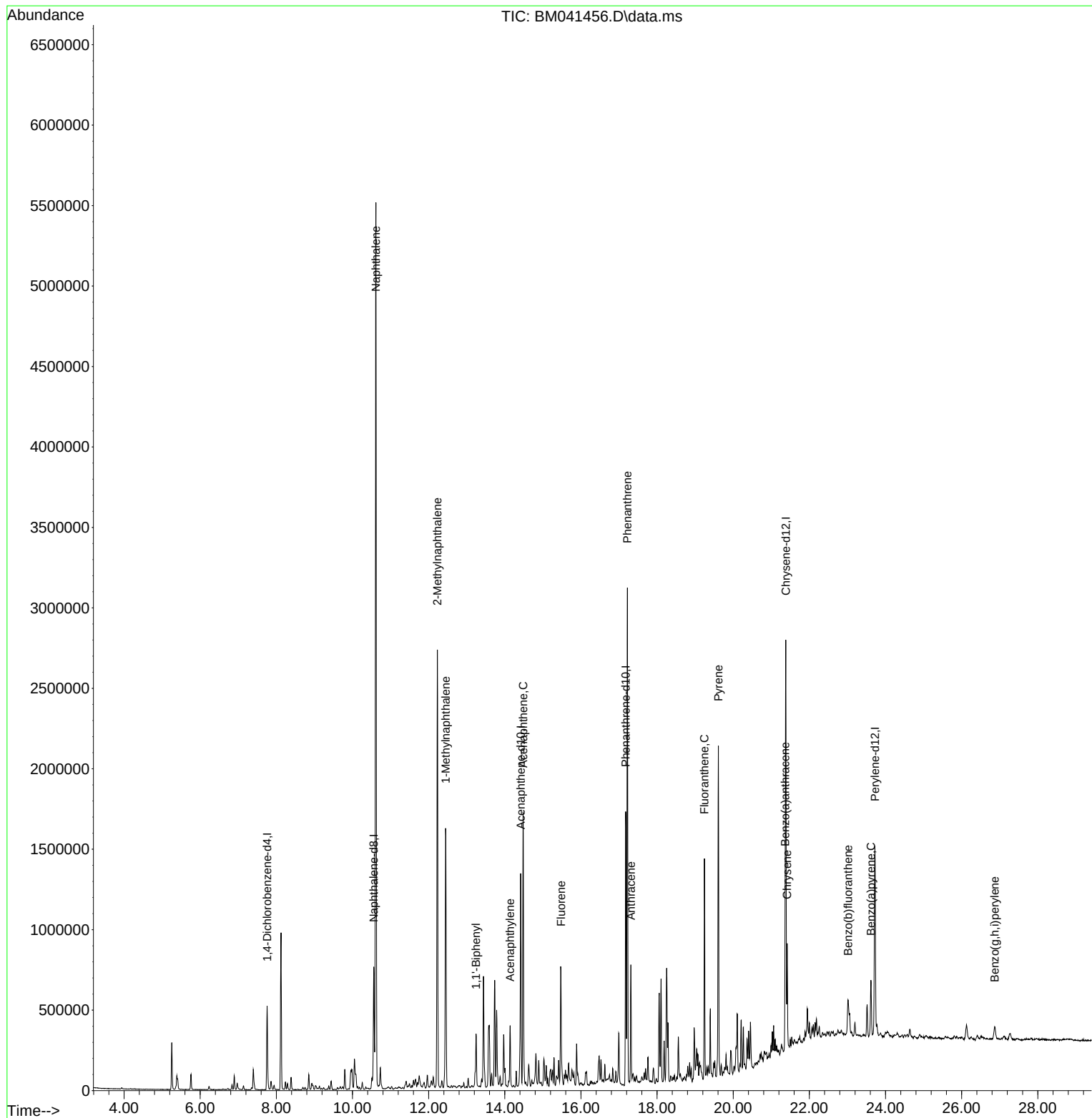
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082123\
Data File : BM041456.D
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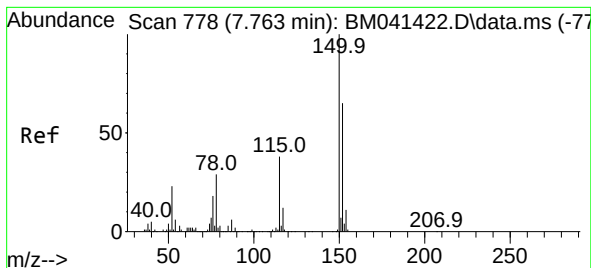
Instrument :
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NEVINS-SB04-Z23-24DL

Quant Time: Aug 22 03:38:46 2023
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Supervised By :mohammad ahmed 08/22/2023





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 7.757 min Scan# 71

Delta R.T. 0.000 min

Lab File: BM041456.D

Acq: 21 Aug 2023 20:06

Instrument :

BNA_M

ClientSampleId :

NEVINS-SB04-Z23-24DL

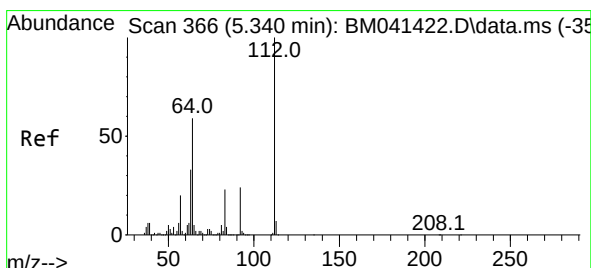
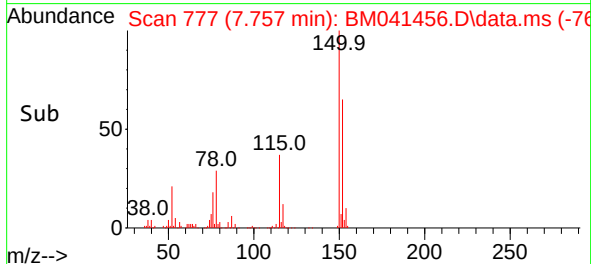
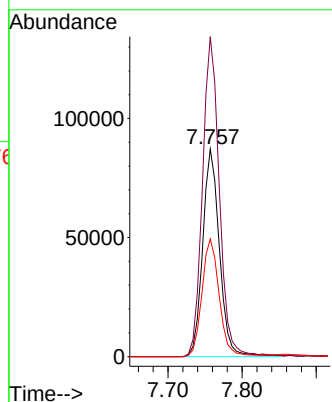
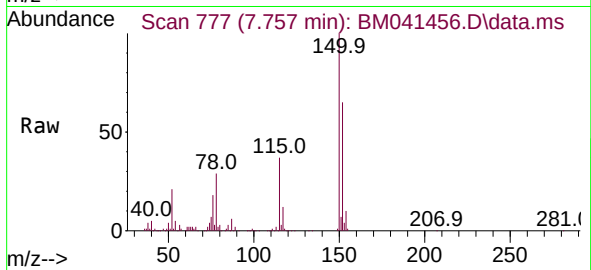
Tgt Ion:152 Resp: 136825
 Ion Ratio Lower Upper
 152 100
 150 154.1 123.8 185.6
 115 56.7 46.6 70.0

Manual Integrations

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Reviewed By :Yogesh Patel 08/22/2023

Supervised By :mohammad ahmed 08/22/2023



#5

2-Fluorophenol

Concen: 1.422 ng

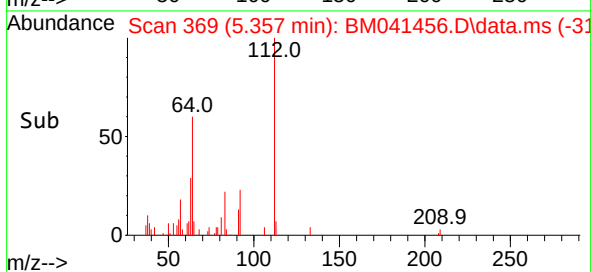
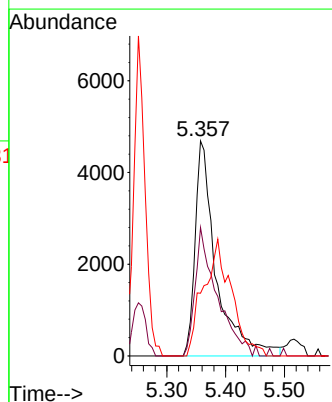
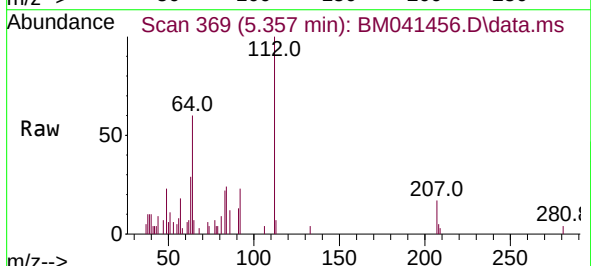
RT: 5.357 min Scan# 369

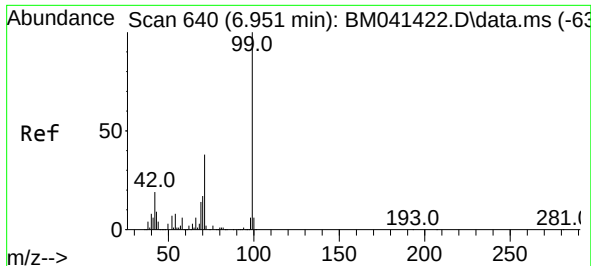
Delta R.T. 0.012 min

Lab File: BM041456.D

Acq: 21 Aug 2023 20:06

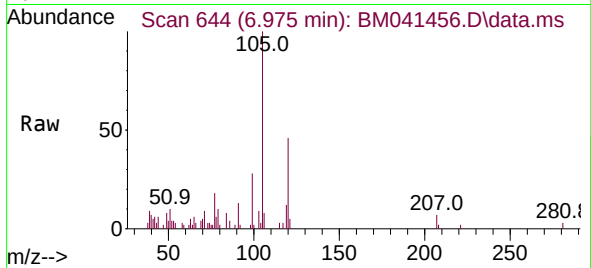
Tgt Ion:112 Resp: 11696
 Ion Ratio Lower Upper
 112 100
 64 59.7 47.3 70.9
 63 29.1 26.5 39.7





#7
Phenol-d6
Concen: 1.043 ng m
RT: 6.975 min Scan# 64
Delta R.T. 0.018 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

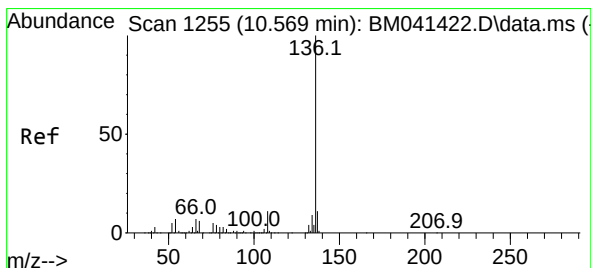
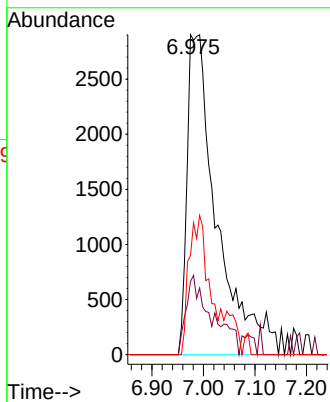
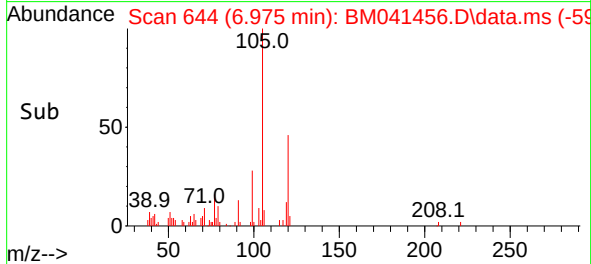
Instrument :
BNA_M
ClientSampleId :
NEVINS-SB04-Z23-24DL



Tgt Ion: 99 Resp: 1164
Ion Ratio Lower Upper
99 100
42 22.9 15.2 22.8
71 31.0 30.7 46.1

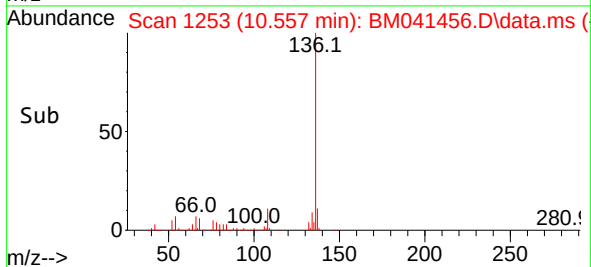
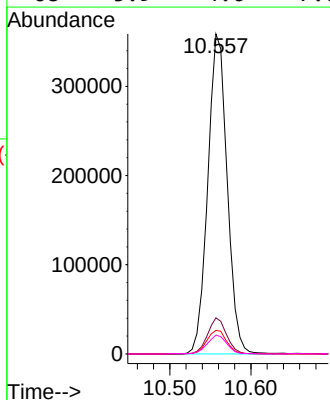
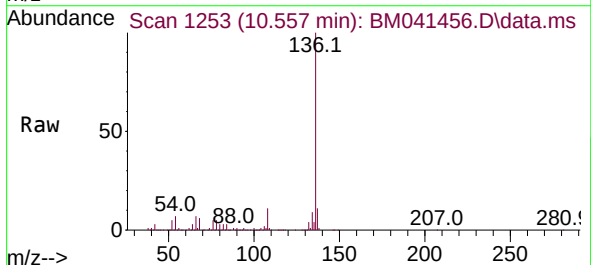
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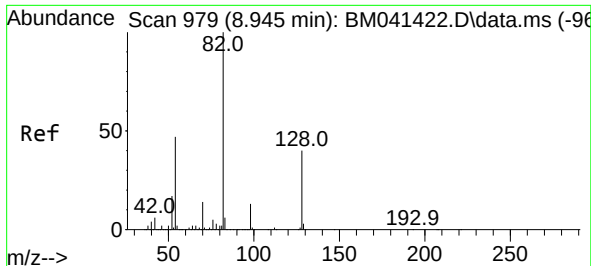
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.557 min Scan# 1253
Delta R.T. -0.000 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

Tgt Ion:136 Resp: 595026
Ion Ratio Lower Upper
136 100
137 11.3 8.6 13.0
54 7.4 5.7 8.5
68 5.9 4.6 7.0





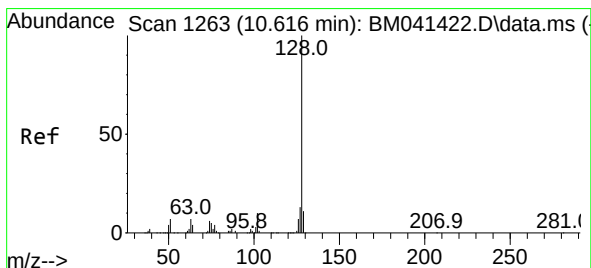
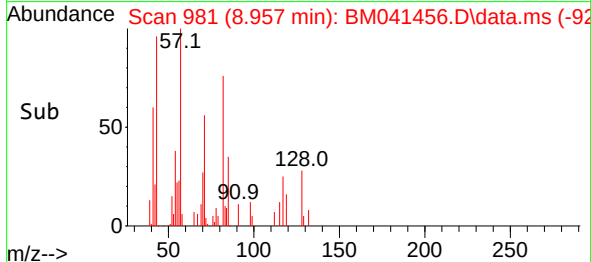
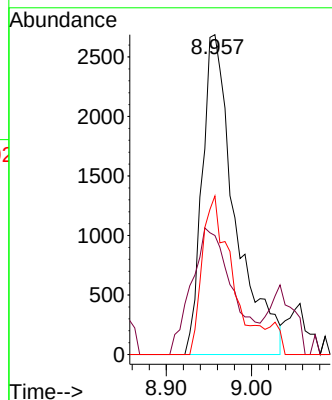
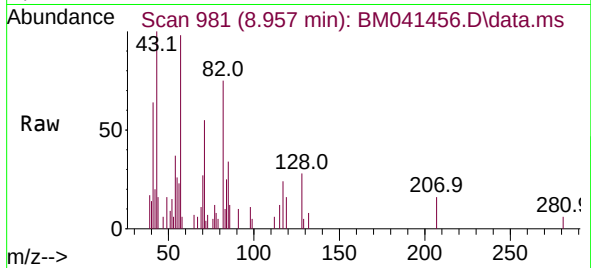
#23
Nitrobenzene-d5
Concen: 0.581 ng
RT: 8.957 min Scan# 981
Delta R.T. 0.024 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

Instrument :
BNA_M
ClientSampleId :
NEVINS-SB04-Z23-24DL

Tgt Ion: 82 Resp: 7246
Ion Ratio Lower Upper
82 100
128 37.2 32.2 48.4
54 49.6 37.5 56.3

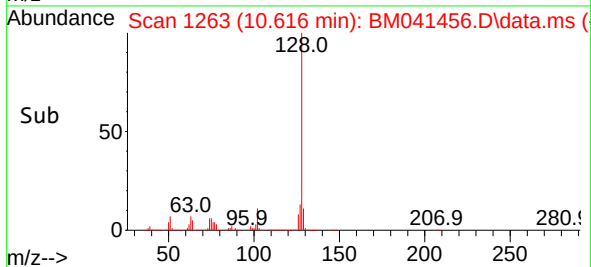
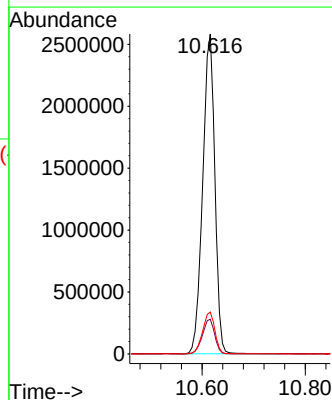
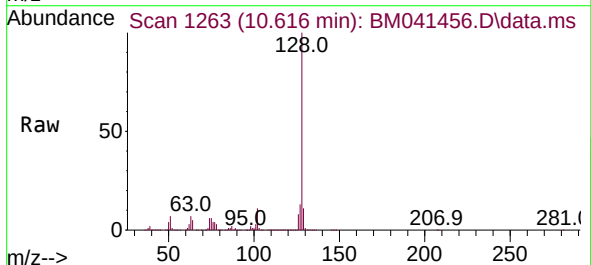
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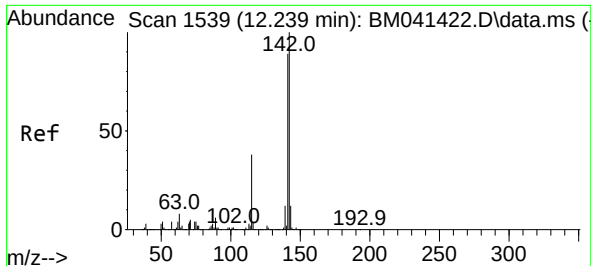
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023



#31
Naphthalene
Concen: 136.013 ng
RT: 10.616 min Scan# 1263
Delta R.T. 0.012 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

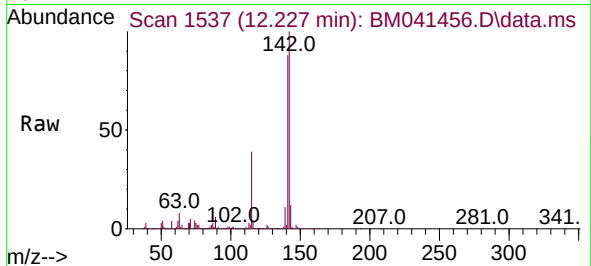
Tgt Ion:128 Resp: 4207864
Ion Ratio Lower Upper
128 100
129 10.8 8.7 13.1
127 13.1 10.6 15.8





#37
2-Methylnaphthalene
Concen: 53.208 ng
RT: 12.227 min Scan# 11
Delta R.T. -0.000 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

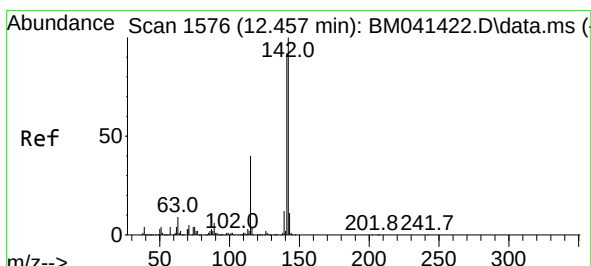
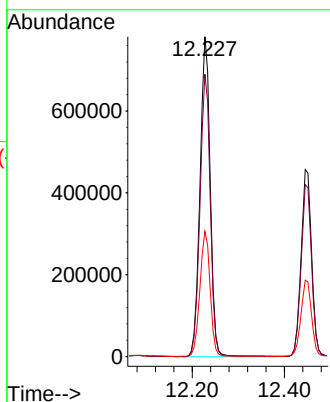
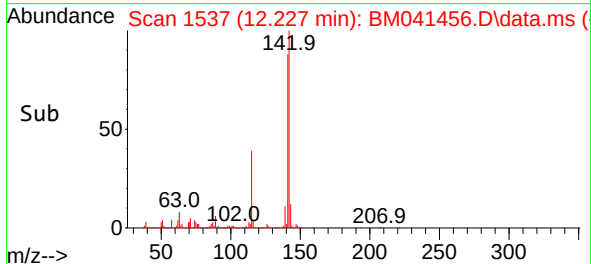
Instrument :
BNA_M
ClientSampleId :
NEVINS-SB04-Z23-24DL



Tgt Ion:142 Resp: 1197775
Ion Ratio Lower Upper
142 100
141 88.2 71.4 107.0
115 39.1 30.8 46.2

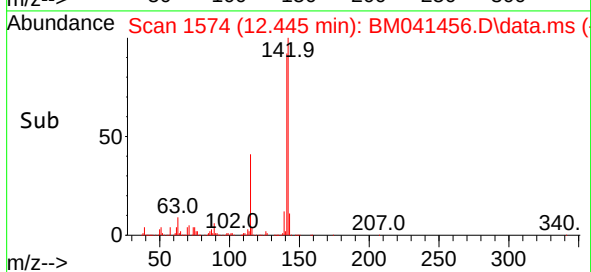
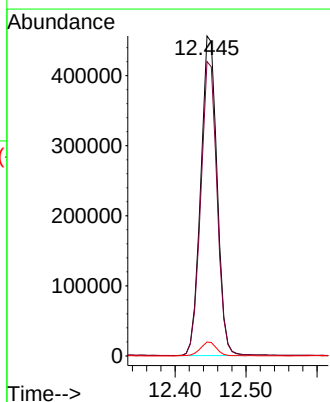
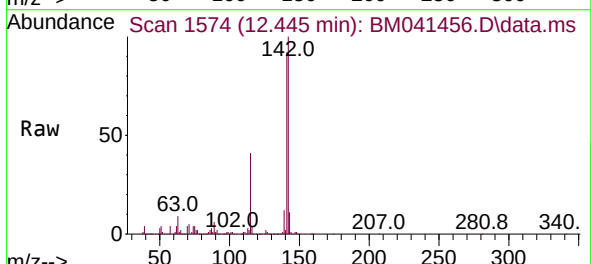
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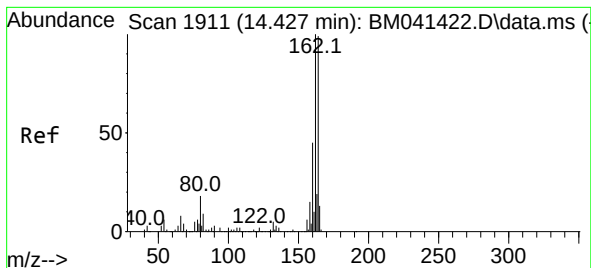
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023



#38
1-Methylnaphthalene
Concen: 34.133 ng
RT: 12.445 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

Tgt Ion:142 Resp: 725925
Ion Ratio Lower Upper
142 100
141 92.0 73.3 109.9
116 4.3 3.3 4.9





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.416 min Scan# 1911

Delta R.T. -0.000 min

Lab File: BM041456.D

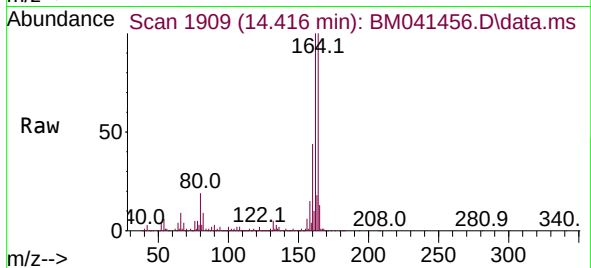
Acq: 21 Aug 2023 20:06

Instrument :

BNA_M

ClientSampleId :

NEVINS-SB04-Z23-24DL



Tgt Ion:164 Resp: 417802

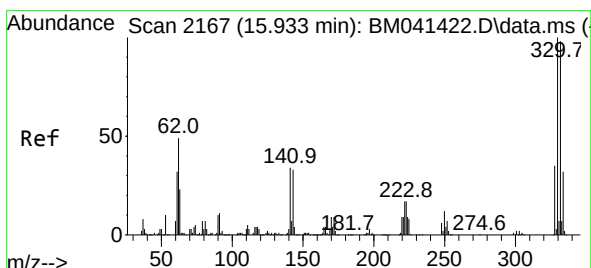
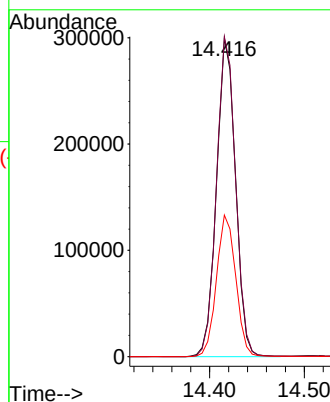
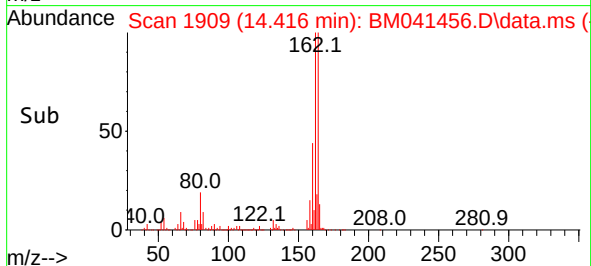
Ion	Ratio	Lower	Upper
164	100		
162	100.5	80.4	120.6
160	44.5	35.9	53.9

Manual Integrations

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Supervised By :mohammad ahmed 08/22/2023



#42

2,4,6-Tribromophenol

Concen: 0.238 ng

RT: 15.933 min Scan# 2167

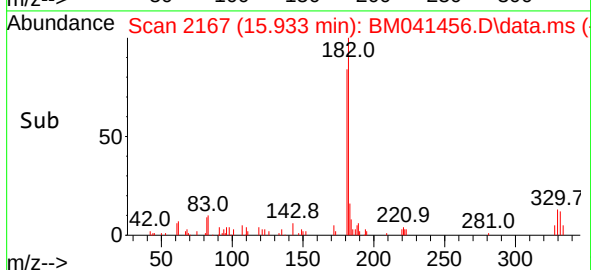
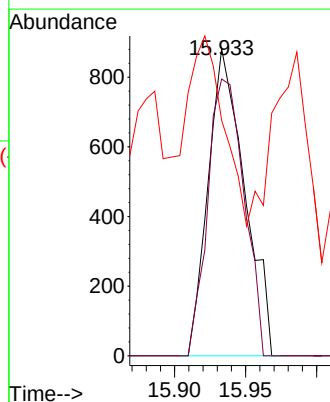
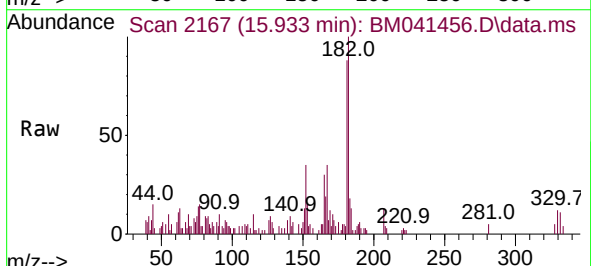
Delta R.T. 0.012 min

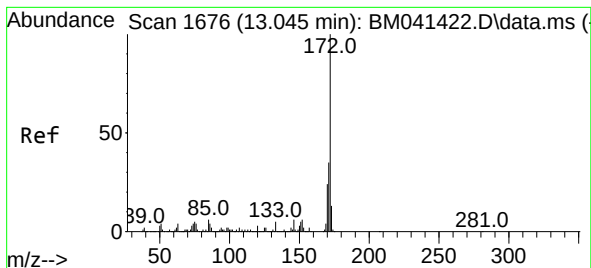
Lab File: BM041456.D

Acq: 21 Aug 2023 20:06

Tgt Ion:330 Resp: 1575

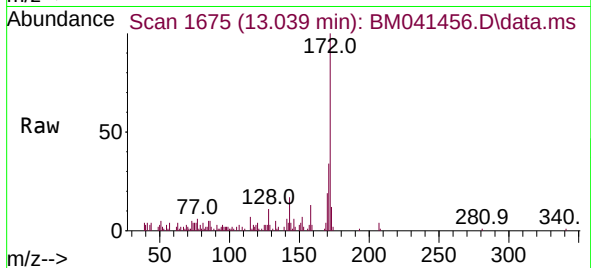
Ion	Ratio	Lower	Upper
330	100		
332	89.8	78.0	117.0
141	61.8	28.3	42.5





#45
2-Fluorobiphenyl
Concen: 0.808 ng
RT: 13.039 min Scan# 1675
Delta R.T. 0.006 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

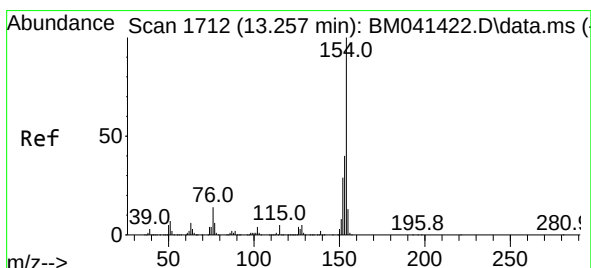
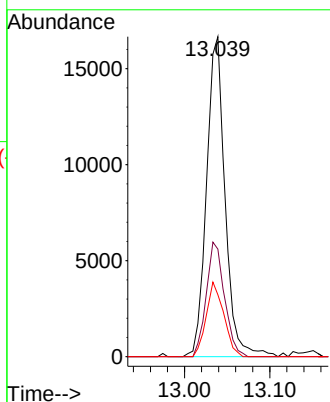
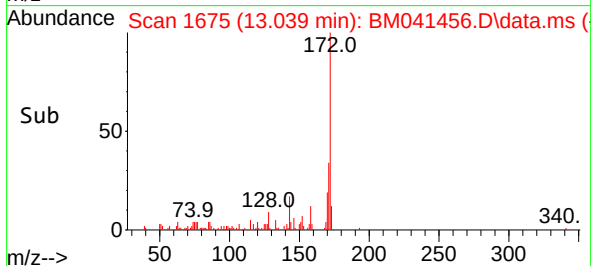
Instrument :
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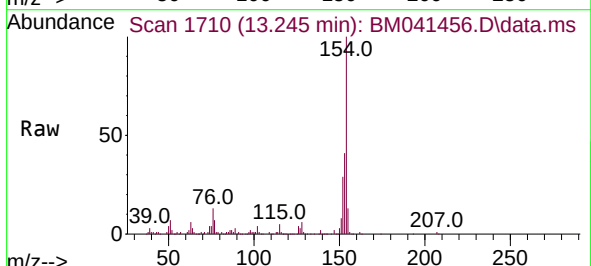
Tgt Ion:172 Resp: 25184
Ion Ratio Lower Upper
172 100
171 33.6 28.3 42.5
170 19.3 19.0 28.6

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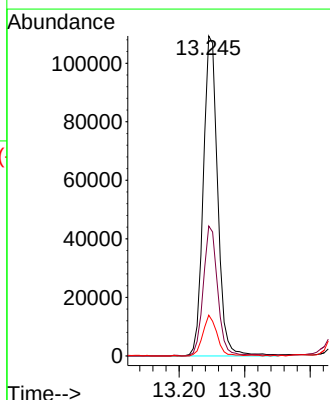
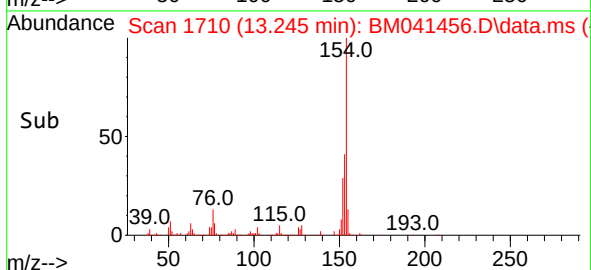
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023

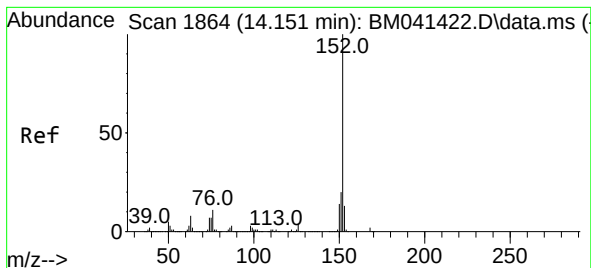


#46
1,1'-Biphenyl
Concen: 5.267 ng
RT: 13.245 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06



Tgt Ion:154 Resp: 166075
Ion Ratio Lower Upper
154 100
153 40.6 20.4 60.4
76 12.8 0.0 33.6





#49

Acenaphthylene

Concen: 3.493 ng

RT: 14.139 min Scan# 1864

Delta R.T. 0.000 min

Lab File: BM041456.D

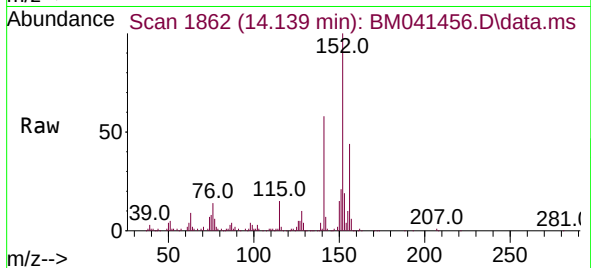
Acq: 21 Aug 2023 20:06

Instrument :

BNA_M

ClientSampleId :

NEVINS-SB04-Z23-24DL



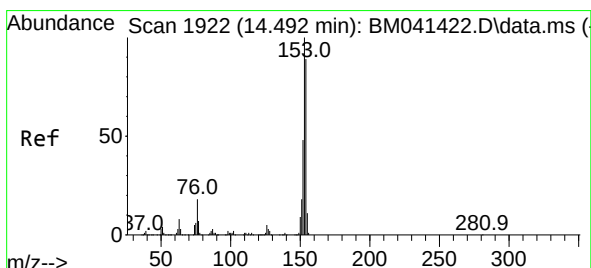
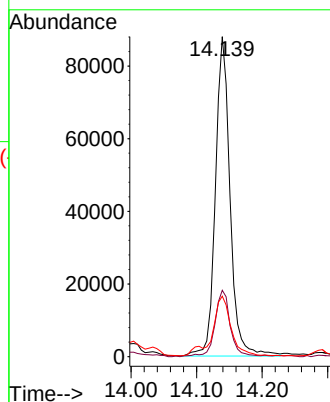
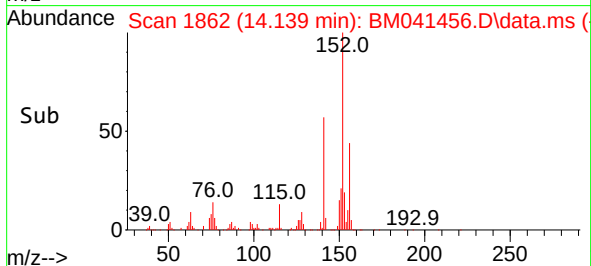
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.7	15.9	23.9
153	18.9	10.2	15.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/22/2023

Supervised By :mohammad ahmed 08/22/2023



#52

Acenaphthene

Concen: 23.970 ng

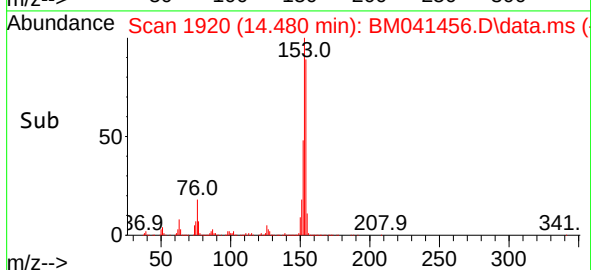
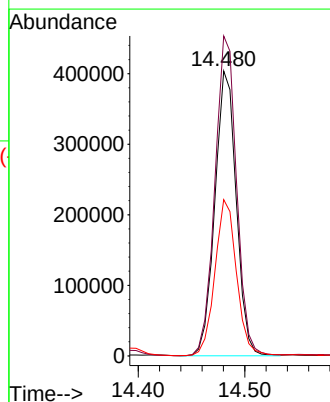
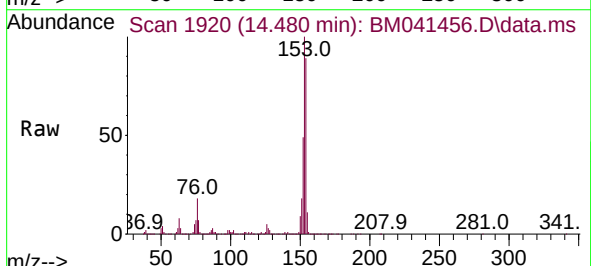
RT: 14.480 min Scan# 1920

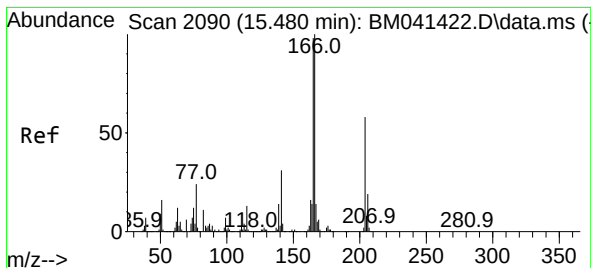
Delta R.T. -0.000 min

Lab File: BM041456.D

Acq: 21 Aug 2023 20:06

Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.3	90.4	135.6
152	54.9	43.1	64.7





#58

Fluorene

Concen: 10.655 ng

RT: 15.474 min Scan# 2090

Delta R.T. -0.000 min

Lab File: BM041456.D

Acq: 21 Aug 2023 20:06

Instrument :

BNA_M

ClientSampleId :

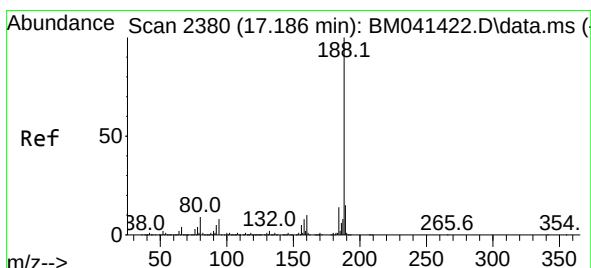
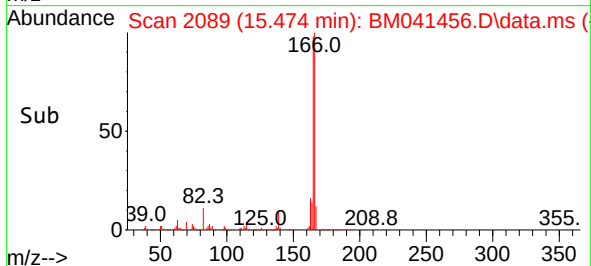
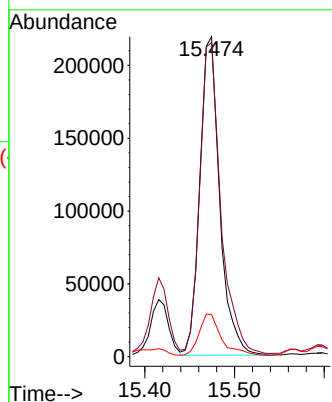
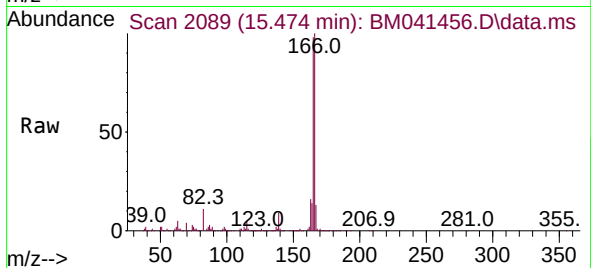
NEVINS-SB04-Z23-24DL

Tgt Ion:166 Resp: 336325
 Ion Ratio Lower Upper
 166 100
 165 98.2 78.2 117.4
 167 13.2 11.2 16.8

Manual Integrations

APPROVED

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



#64

Phenanthrene-d10

Concen: 20.000 ng

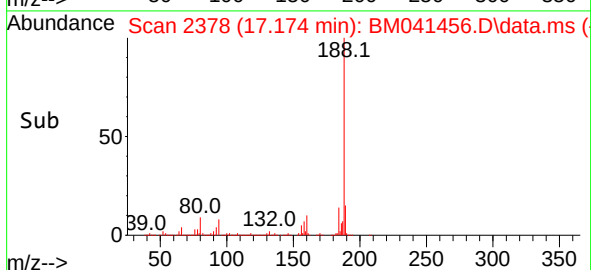
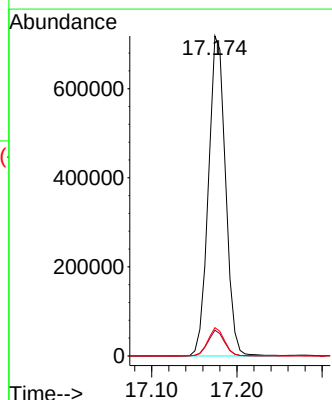
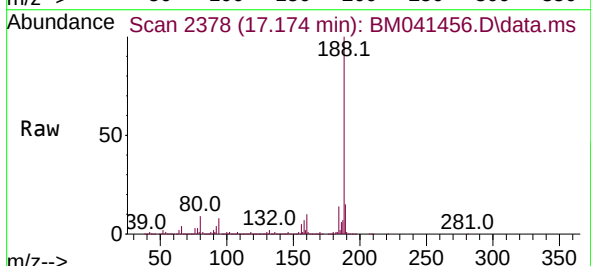
RT: 17.174 min Scan# 2378

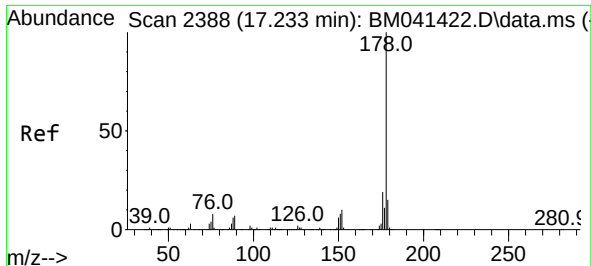
Delta R.T. -0.000 min

Lab File: BM041456.D

Acq: 21 Aug 2023 20:06

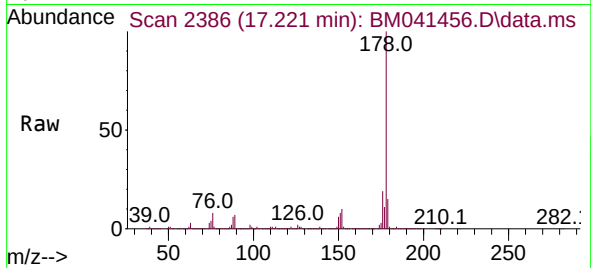
Tgt Ion:188 Resp: 1001171
 Ion Ratio Lower Upper
 188 100
 94 8.0 6.6 9.8
 80 8.8 7.5 11.3





#71
Phenanthrene
Concen: 32.867 ng
RT: 17.221 min Scan# 2388
Delta R.T. -0.000 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

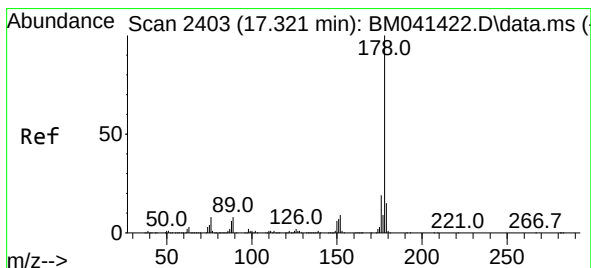
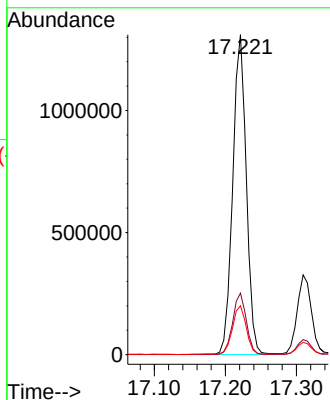
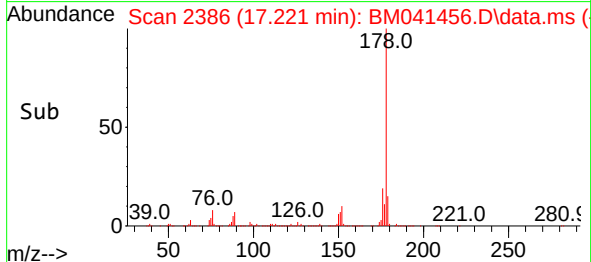
Instrument :
BNA_M
ClientSampleId :
NEVINS-SB04-Z23-24DL



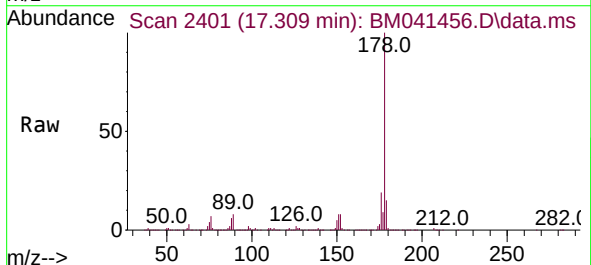
Tgt Ion:178 Resp: 1736974
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.3 12.2 18.4

Manual Integrations
APPROVED

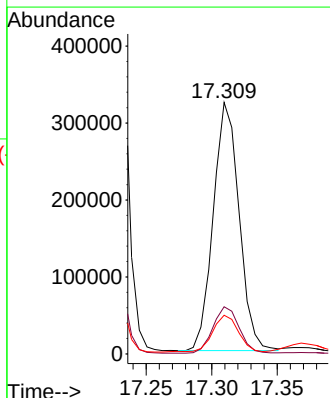
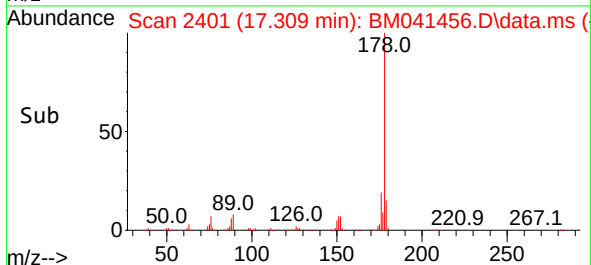
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023

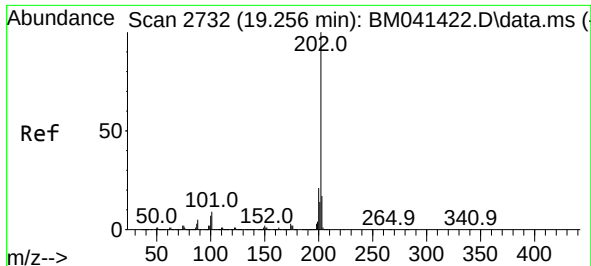


#72
Anthracene
Concen: 8.258 ng
RT: 17.309 min Scan# 2401
Delta R.T. 0.000 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06



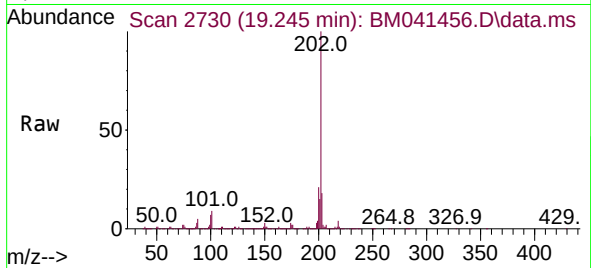
Tgt Ion:178 Resp: 442559
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.4 12.2 18.2





#75
Fluoranthene
Concen: 11.744 ng
RT: 19.245 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

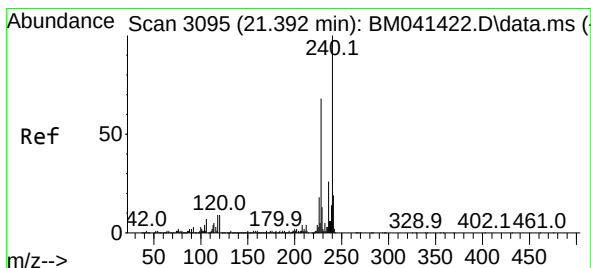
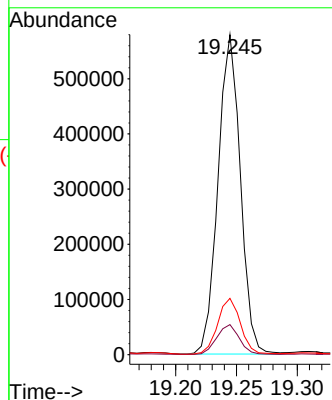
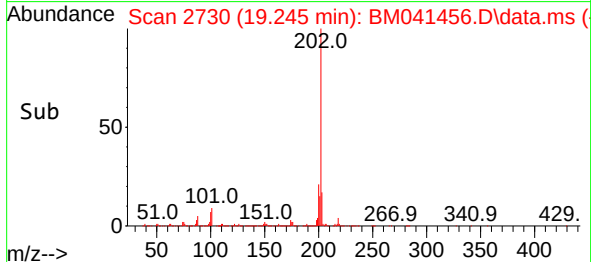
Instrument :
BNA_M
ClientSampleId :
NEVINS-SB04-Z23-24DL



Tgt Ion:202 Resp: 738953
Ion Ratio Lower Upper
202 100
101 9.4 0.0 29.1
203 17.6 0.0 37.4

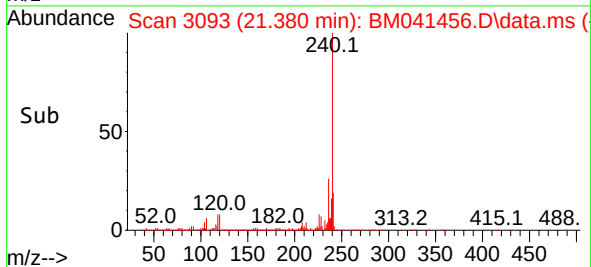
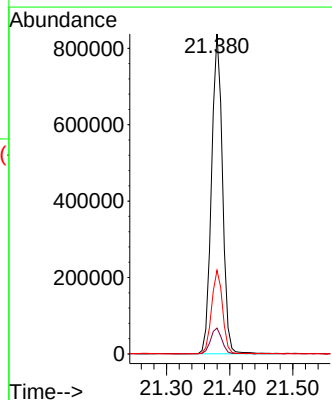
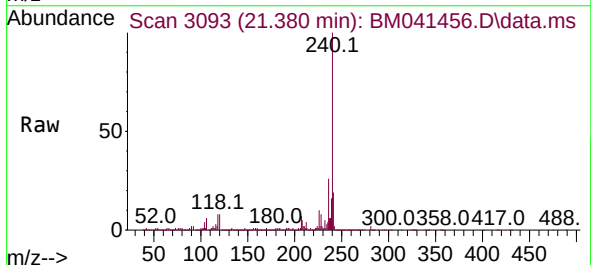
Manual Integrations
APPROVED

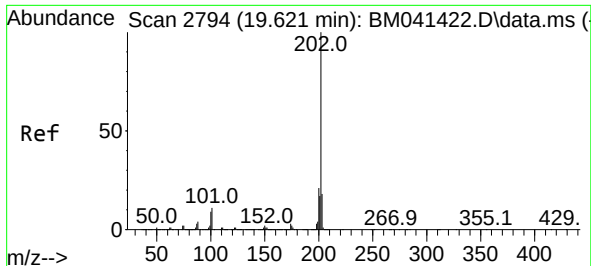
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3093
Delta R.T. -0.006 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

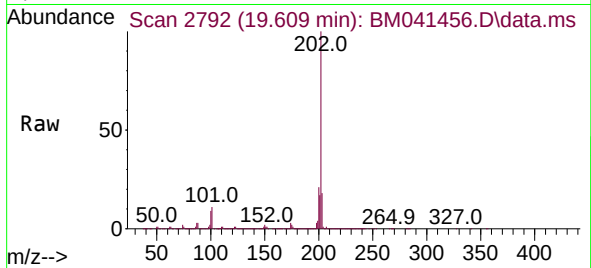
Tgt Ion:240 Resp: 1009101
Ion Ratio Lower Upper
240 100
120 8.1 7.4 11.2
236 26.1 20.8 31.2





#78
Pyrene
Concen: 16.673 ng
RT: 19.609 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

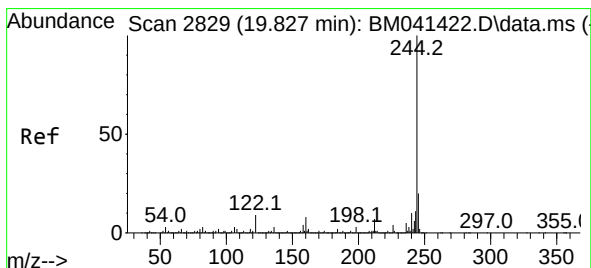
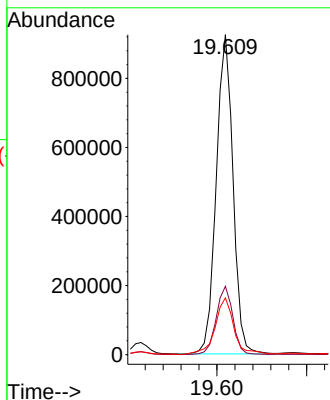
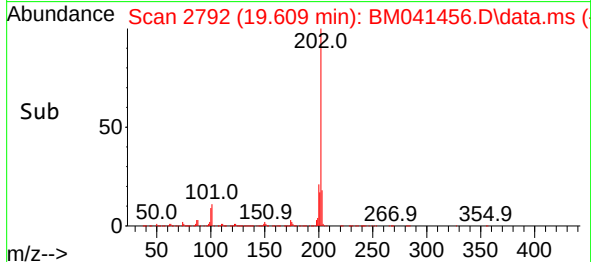
Instrument :
BNA_M
ClientSampleId :
NEVINS-SB04-Z23-24DL



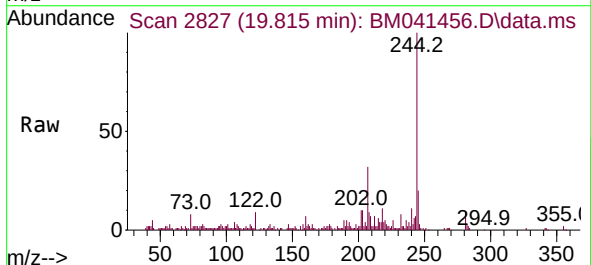
Tgt Ion:202 Resp: 1203246
Ion Ratio Lower Upper
202 100
200 21.3 17.0 25.4
203 17.7 14.1 21.1

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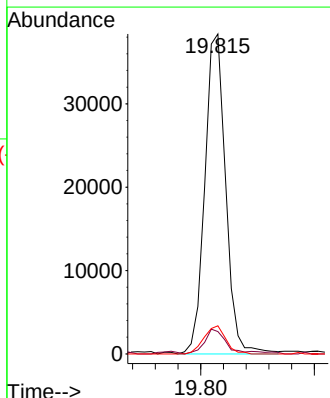
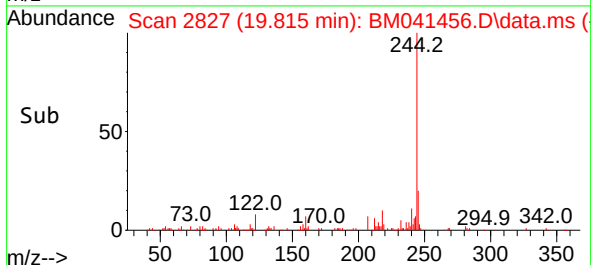
Reviewed By :Yogesh Patel 08/22/2023
Supervised By :mohammad ahmed 08/22/2023

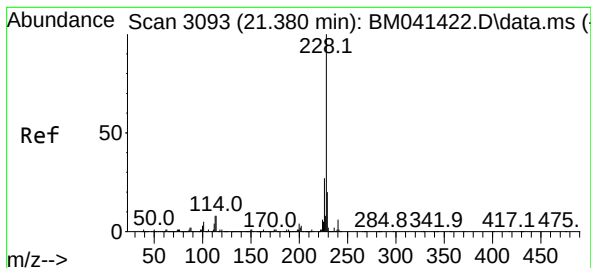


#79
Terphenyl-d14
Concen: 0.845 ng
RT: 19.815 min Scan# 2827
Delta R.T. 0.000 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06



Tgt Ion:244 Resp: 48992
Ion Ratio Lower Upper
244 100
212 7.0 5.9 8.9
122 8.8 6.9 10.3





#81

Benzo(a)anthracene

Concen: 5.919 ng

RT: 21.362 min Scan# 3093

Delta R.T. -0.006 min

Lab File: BM041456.D

Acq: 21 Aug 2023 20:06

Instrument :

BNA_M

ClientSampleId :

NEVINS-SB04-Z23-24DL

Tgt Ion:228 Resp: 40785

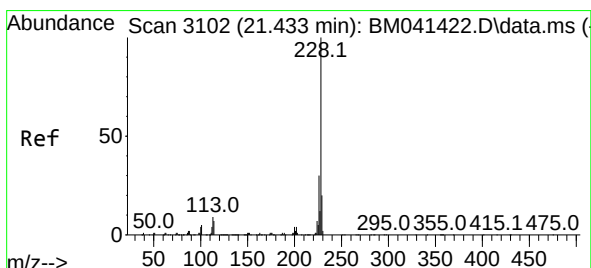
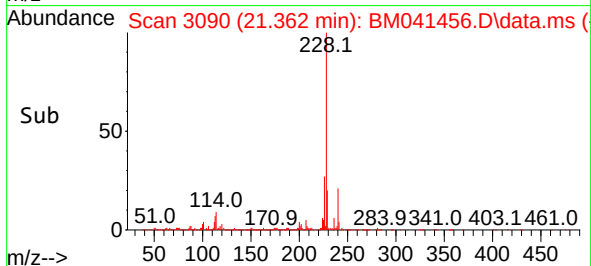
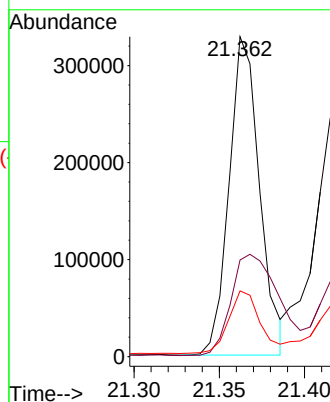
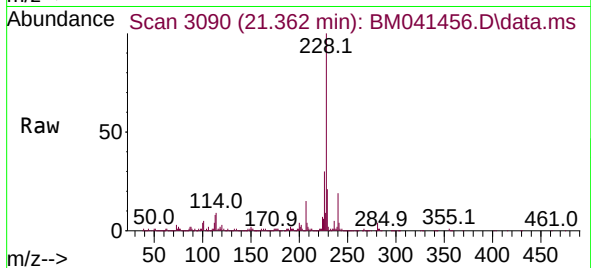
Ion	Ratio	Lower	Upper
228	100		
226	30.2	21.6	32.4
229	20.5	15.8	23.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/22/2023

Supervised By :mohammad ahmed 08/22/2023



#83

Chrysene

Concen: 5.370 ng

RT: 21.415 min Scan# 3099

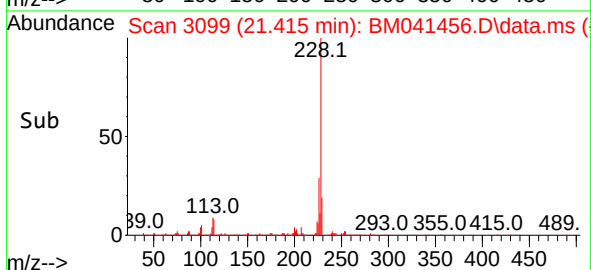
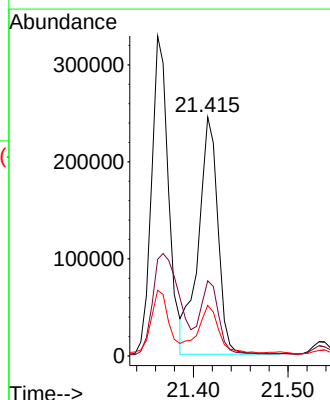
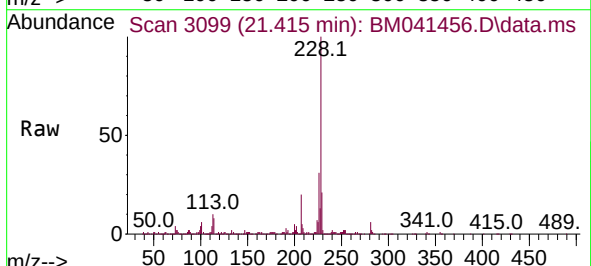
Delta R.T. -0.006 min

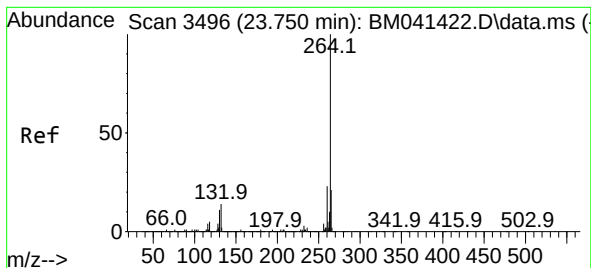
Lab File: BM041456.D

Acq: 21 Aug 2023 20:06

Tgt Ion:228 Resp: 351724

Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.2	36.4
229	21.1	16.0	24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.721 min Scan# 34

Delta R.T. -0.006 min

Lab File: BM041456.D

Acq: 21 Aug 2023 20:06

Instrument :

BNA_M

ClientSampleId :

NEVINS-SB04-Z23-24DL

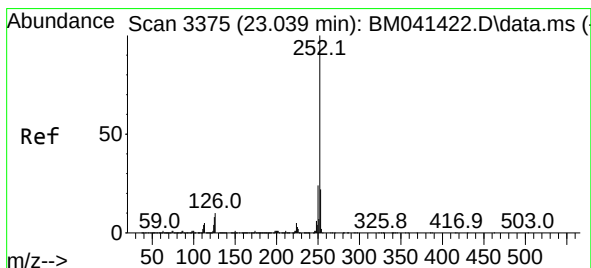
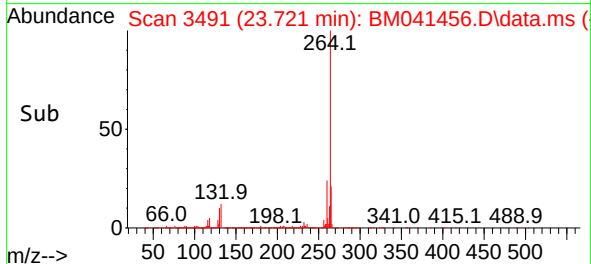
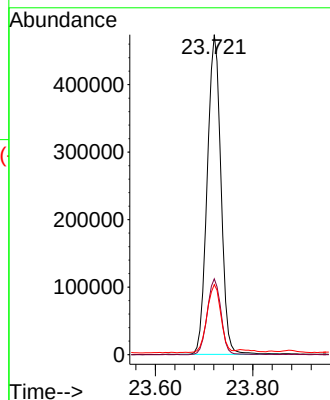
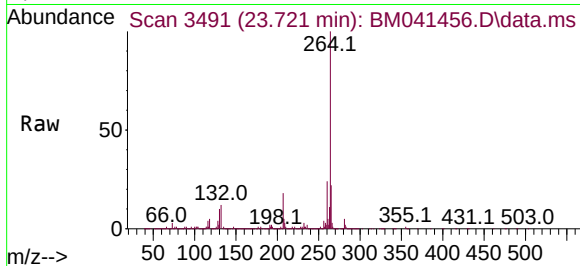
Tgt Ion:264 Resp: 928845
 Ion Ratio Lower Upper
 264 100
 260 23.7 18.6 27.8
 265 21.9 17.5 26.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/22/2023

Supervised By :mohammad ahmed 08/22/2023



#88

Benzo(b)fluoranthene

Concen: 4.150 ng

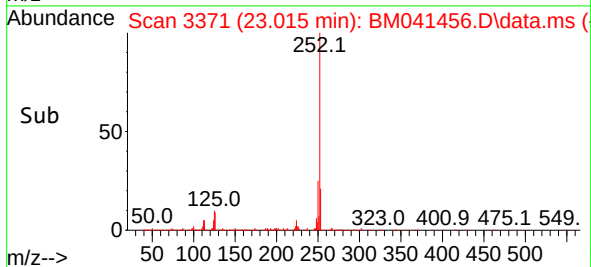
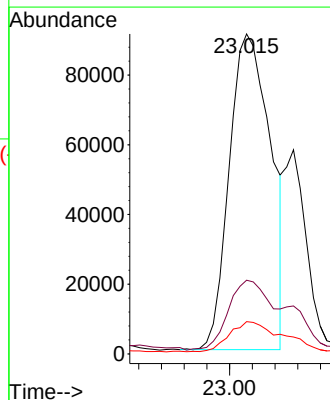
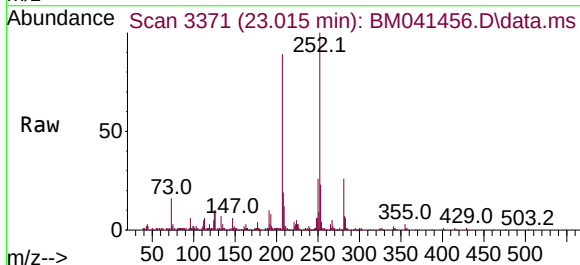
RT: 23.015 min Scan# 3371

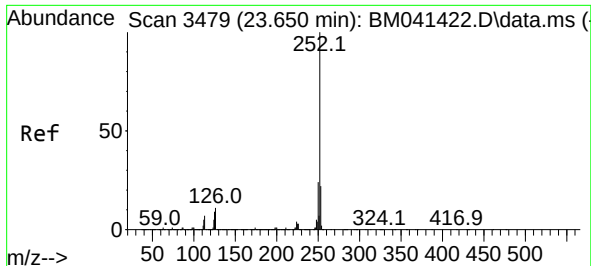
Delta R.T. -0.000 min

Lab File: BM041456.D

Acq: 21 Aug 2023 20:06

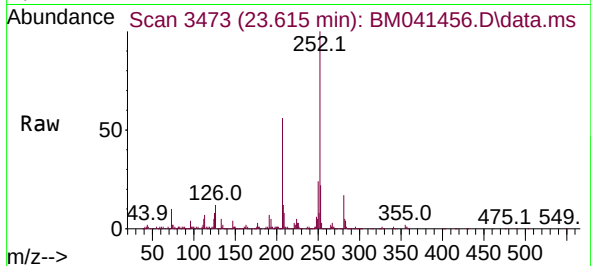
Tgt Ion:252 Resp: 229750
 Ion Ratio Lower Upper
 252 100
 253 23.0 17.4 26.0
 125 10.1 6.6 10.0#





#90
Benzo(a)pyrene
Concen: 5.287 ng
RT: 23.615 min Scan# 3479
Delta R.T. -0.012 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

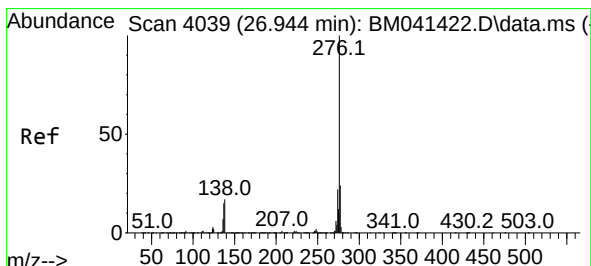
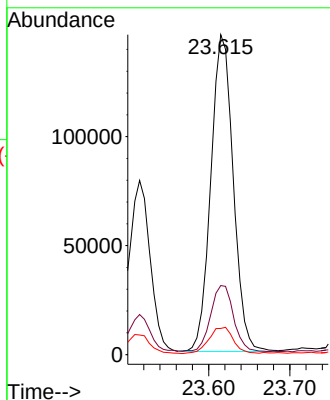
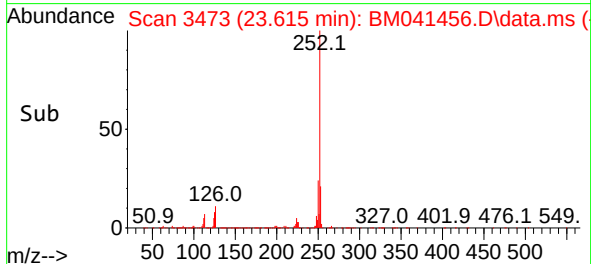
Instrument : BNA_M
ClientSampleId : NEVINS-SB04-Z23-24DL



Tgt Ion:252 Resp: 278722
Ion Ratio Lower Upper
252 100
253 21.6 17.5 26.3
125 8.2 7.2 10.8

Manual Integrations
APPROVED

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



#92
Benzo(g,h,i)perylene
Concen: 2.035 ng
RT: 26.868 min Scan# 4026
Delta R.T. -0.024 min
Lab File: BM041456.D
Acq: 21 Aug 2023 20:06

Tgt Ion:276 Resp: 100082
Ion Ratio Lower Upper
276 100
277 26.1 19.6 29.4
138 19.0 13.2 19.8

