

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM022023\
 Data File : BM038802.D
 Acq On : 21 Feb 2023 00:33
 Operator : CG/JU
 Sample : 01593-02
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-13-SB03

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/21/2023
 Supervised By : Jagrut Upadhyay 02/21/2023

Quant Time: Feb 21 02:11:48 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 21 02:04:34 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.875	152	51097	20.000	ng	0.00
21) Naphthalene-d8	10.686	136	181250	20.000	ng	0.00
39) Acenaphthene-d10	14.527	164	108689	20.000	ng	-0.01
64) Phenanthrene-d10	17.280	188	210042	20.000	ng	# 0.00
76) Chrysene-d12	21.462	240	198183	20.000	ng	0.00
86) Perylene-d12	23.844	264	241934	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	231197	88.634	ng	0.00
7) Phenol-d6	7.051	99	287145	96.519	ng	0.00
23) Nitrobenzene-d5	9.051	82	210094	65.840	ng	0.00
42) 2,4,6-Tribromophenol	16.027	330	120189	81.356	ng	0.00
45) 2-Fluorobiphenyl	13.151	172	514027	60.209	ng	0.00
79) Terphenyl-d14	19.903	244	679642	60.517	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.739	128	28642	3.079	ng	99
37) 2-Methylnaphthalene	12.351	142	24321	3.236	ng	98
38) 1-Methylnaphthalene	12.569	142	21283	3.005	ng	98
49) Acenaphthylene	14.251	152	53604	5.023	ng	97
71) Phenanthrene	17.321	178	116152	9.313	ng	99
72) Anthracene	17.410	178	50448	3.954	ng	96
75) Fluoranthene	19.339	202	247227	18.880	ng	98
78) Pyrene	19.703	202	236590	15.506	ng	98
81) Benzo(a)anthracene	21.450	228	136181m	9.714	ng	
83) Chrysene	21.503	228	160440	11.878	ng	96
87) Indeno(1,2,3-cd)pyrene	26.309	276	110631	5.805	ng	98
88) Benzo(b)fluoranthene	23.121	252	227757	15.717	ng	96
89) Benzo(k)fluoranthene	23.162	252	73064m	4.965	ng	
90) Benzo(a)pyrene	23.739	252	126158	8.804	ng	99
92) Benzo(g,h,i)perylene	27.079	276	102383	6.317	ng	98

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

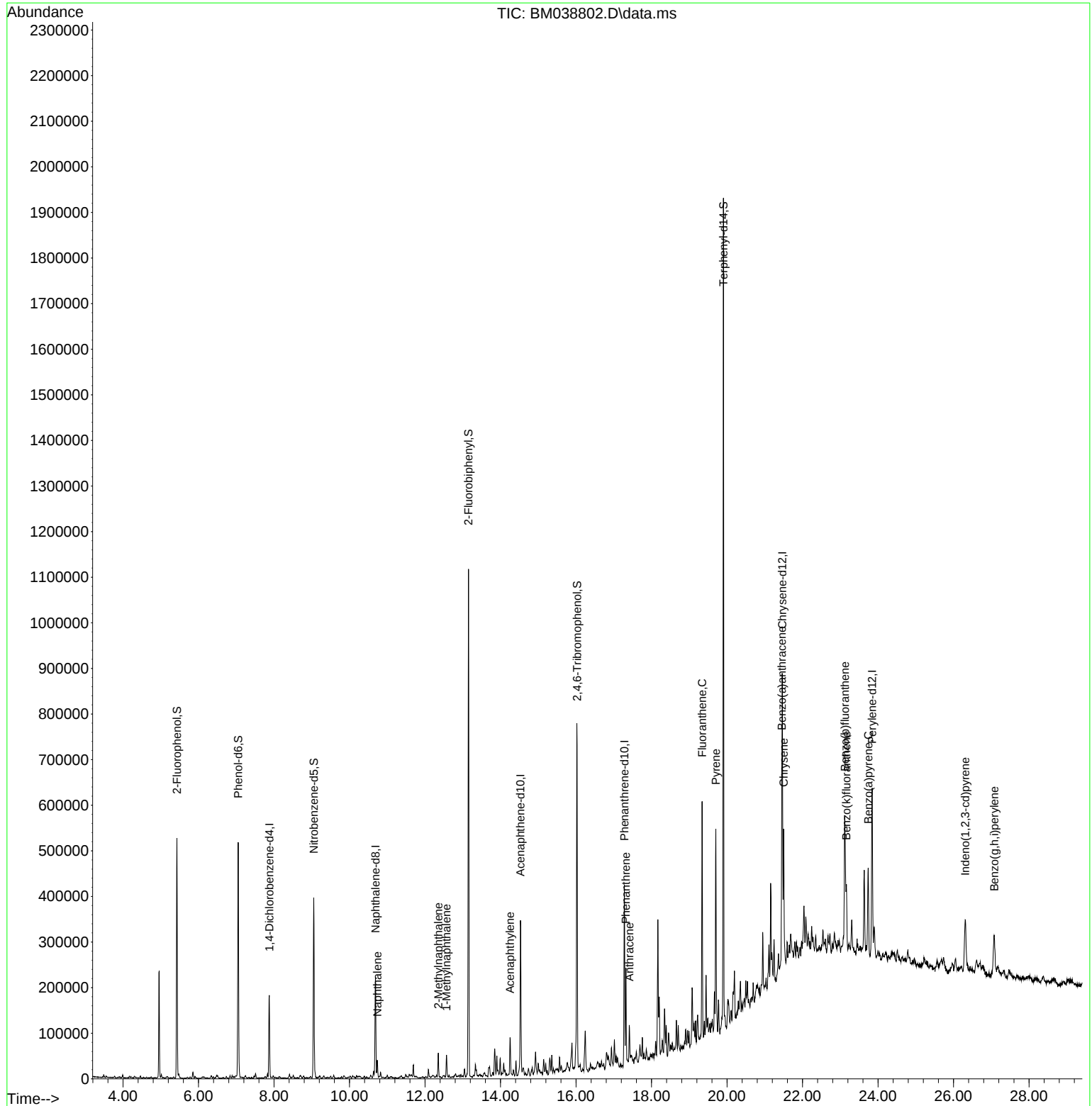
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM022023\
Data File : BM038802.D
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ALS Vial : 18 Sample Multiplier: 1

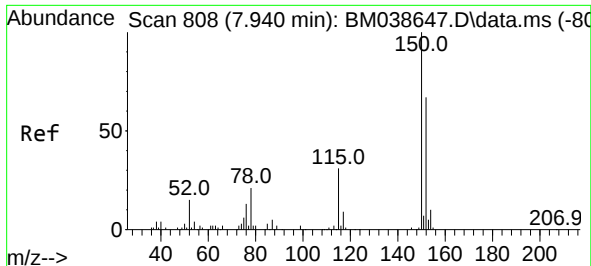
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Quant Time: Feb 21 02:11:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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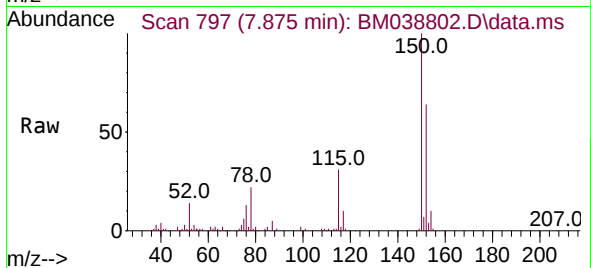
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.875 min Scan# 79
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

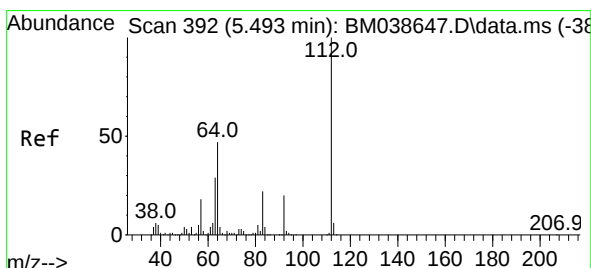
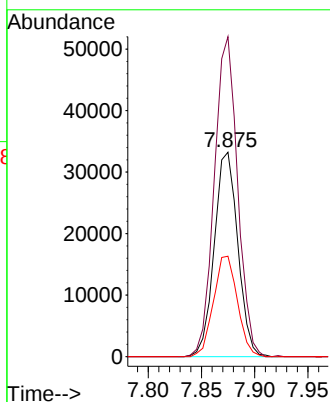
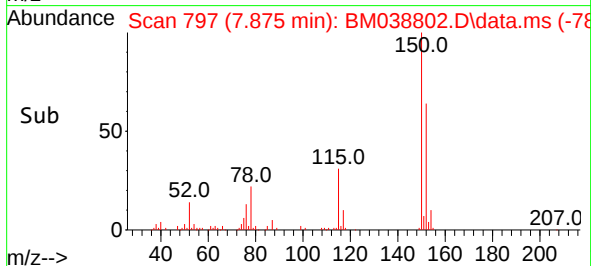
Instrument :
BNA_M
ClientSampleId :
B-13-SB03



Tgt Ion:152 Resp: 51097
Ion Ratio Lower Upper
152 100
150 156.5 119.5 179.3
115 49.1 37.6 56.4

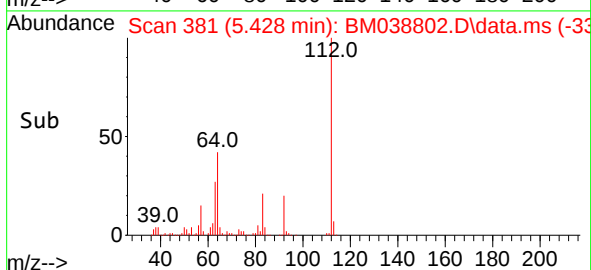
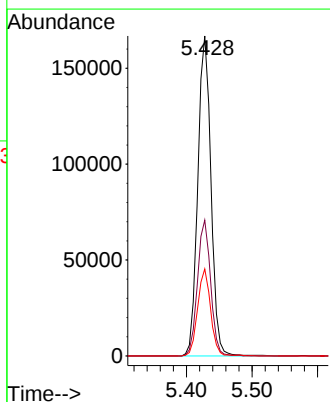
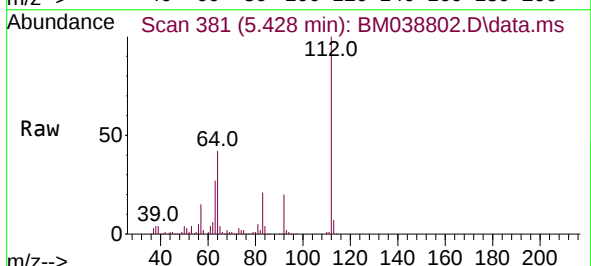
Manual Integrations
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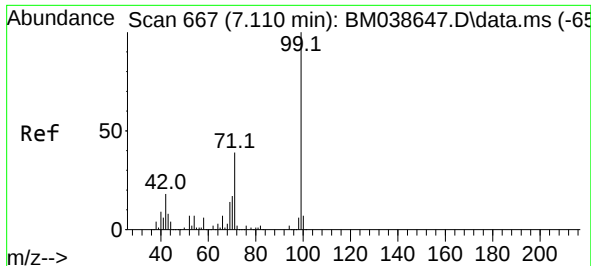
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023



#5
2-Fluorophenol
Concen: 88.634 ng
RT: 5.428 min Scan# 381
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

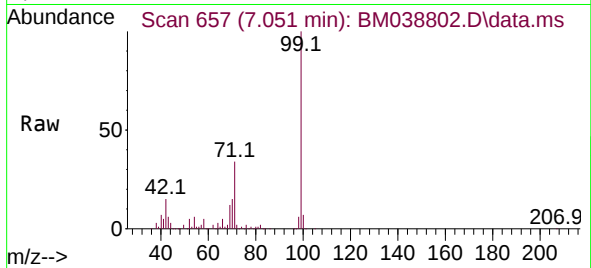
Tgt Ion:112 Resp: 231197
Ion Ratio Lower Upper
112 100
64 42.4 37.9 56.9
63 27.2 23.3 34.9





#7
Phenol-d6
Concen: 96.519 ng
RT: 7.051 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

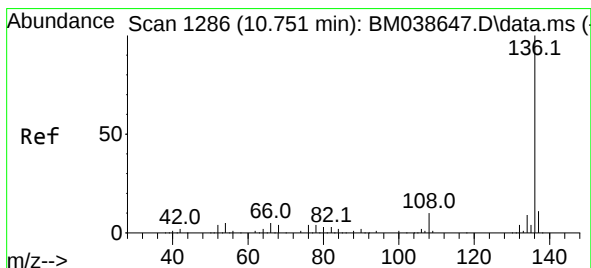
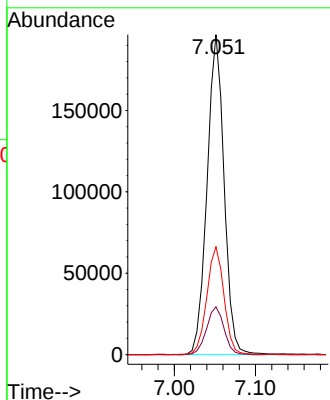
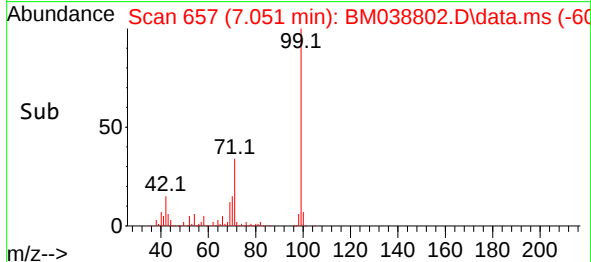
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ClientSampleId :
B-13-SB03



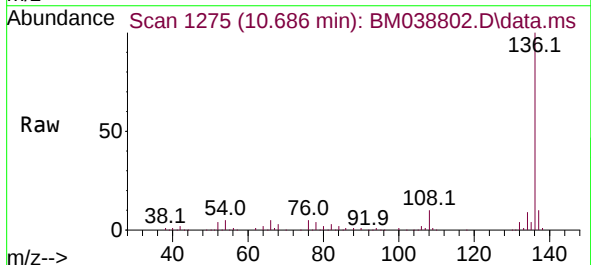
Tgt Ion: 99 Resp: 287145
Ion Ratio Lower Upper
99 100
42 14.9 14.6 22.0
71 33.7 31.0 46.4

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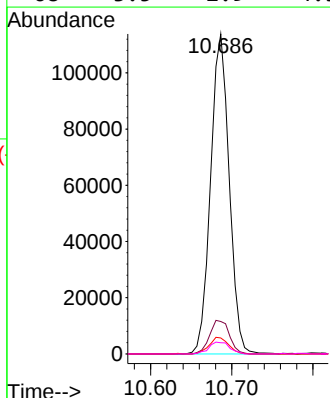
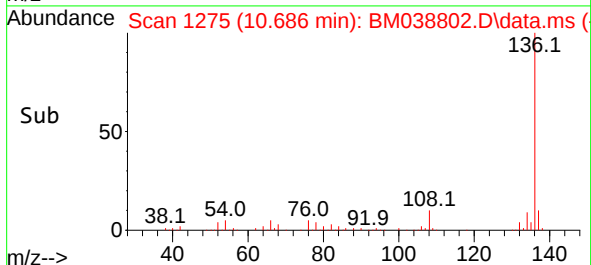
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023

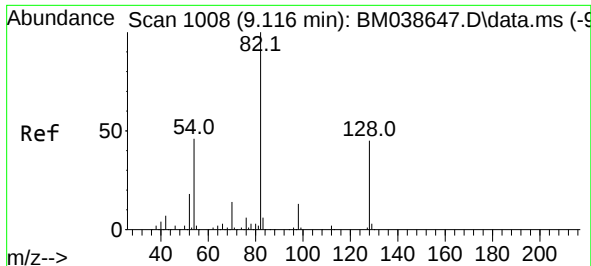


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.686 min Scan# 1275
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33



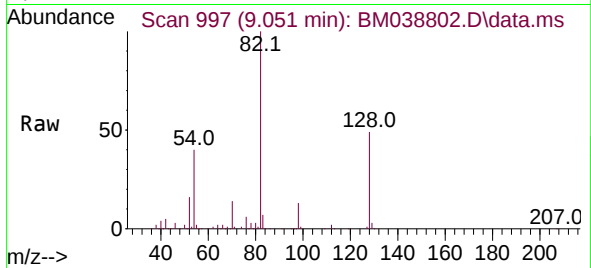
Tgt Ion:136 Resp: 181250
Ion Ratio Lower Upper
136 100
137 10.2 8.8 13.2
54 5.0 4.2 6.4
68 3.5 2.9 4.3





#23
Nitrobenzene-d5
Concen: 65.840 ng
RT: 9.051 min Scan# 997
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

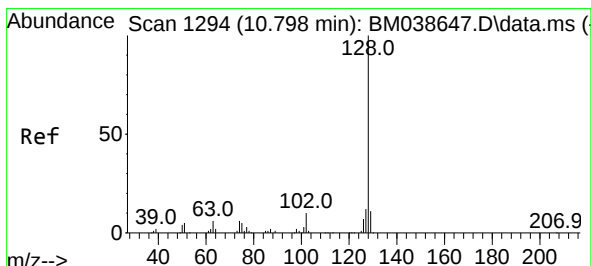
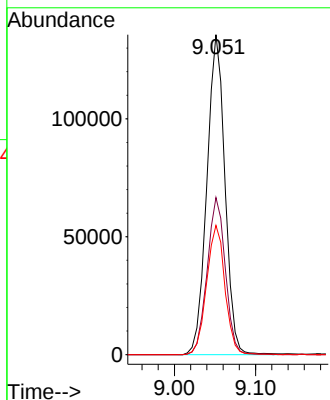
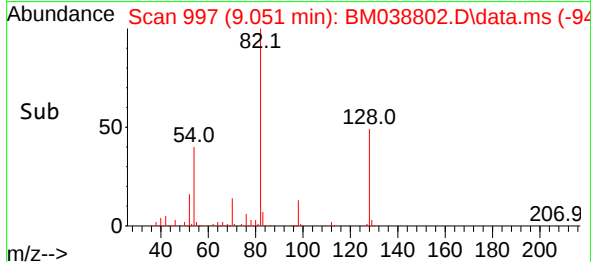
Instrument :
BNA_M
ClientSampleId :
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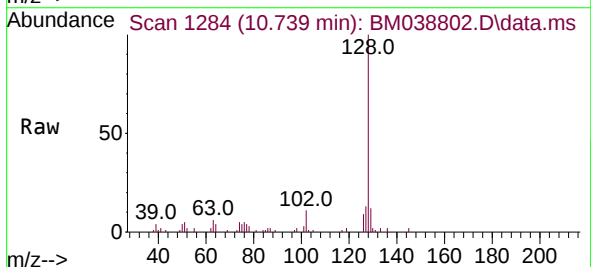
Tgt Ion: 82 Resp: 21094
Ion Ratio Lower Upper
82 100
128 49.1 36.0 54.0
54 40.4 36.8 55.2

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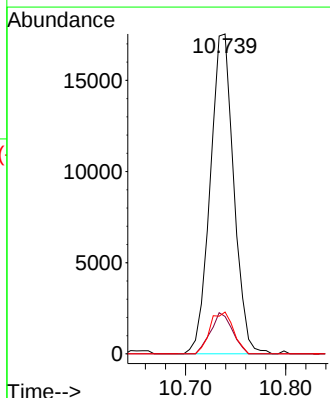
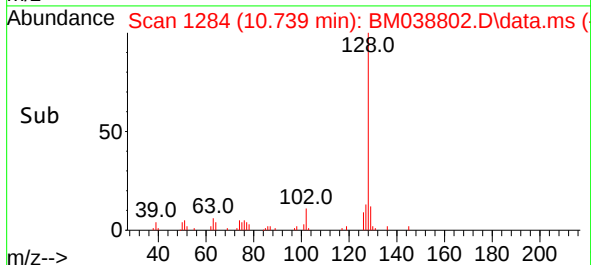
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023

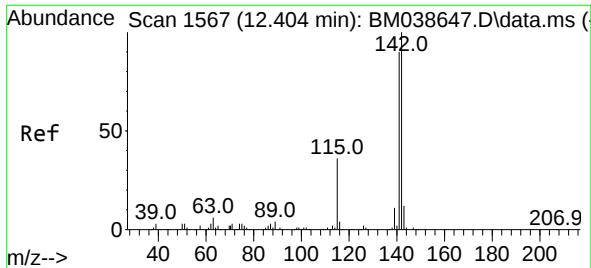


#31
Naphthalene
Concen: 3.079 ng
RT: 10.739 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33



Tgt Ion:128 Resp: 28642
Ion Ratio Lower Upper
128 100
129 11.7 9.1 13.7
127 13.1 9.9 14.9





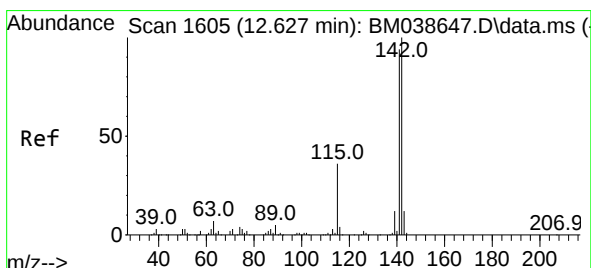
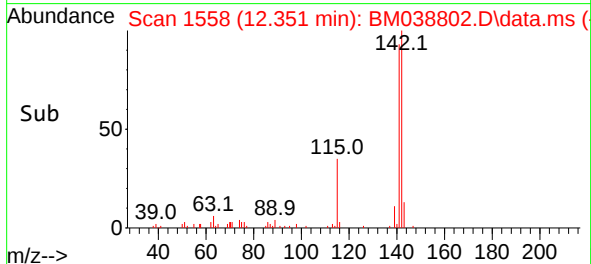
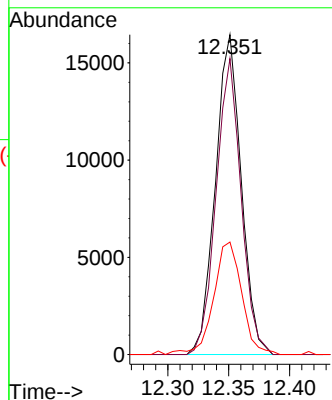
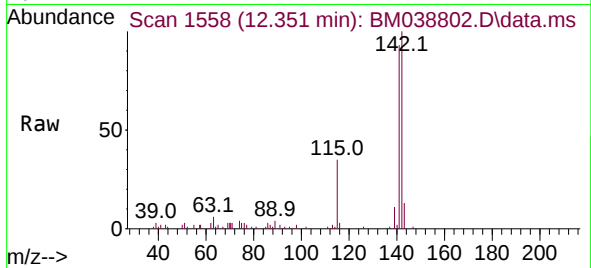
#37
2-Methylnaphthalene
Concen: 3.236 ng
RT: 12.351 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Instrument :
BNA_M
ClientSampleId :
B-13-SB03

Tgt Ion:142 Resp: 2432
Ion Ratio Lower Upper
142 100
141 92.5 71.8 107.8
115 35.2 28.7 43.1

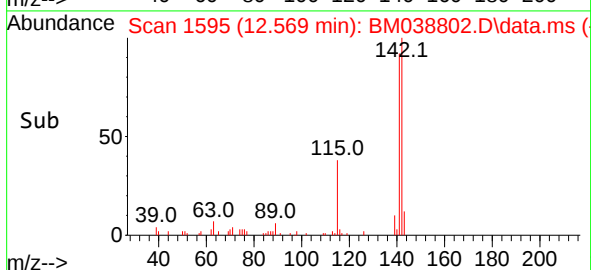
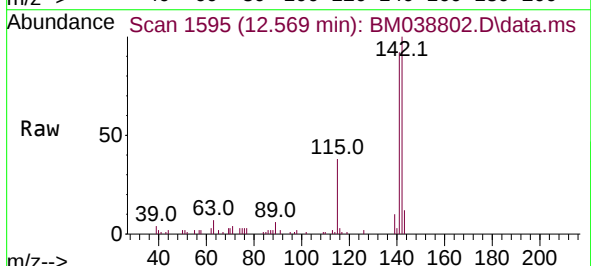
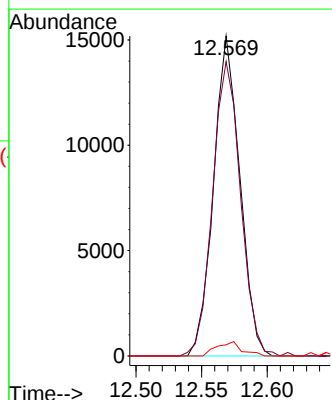
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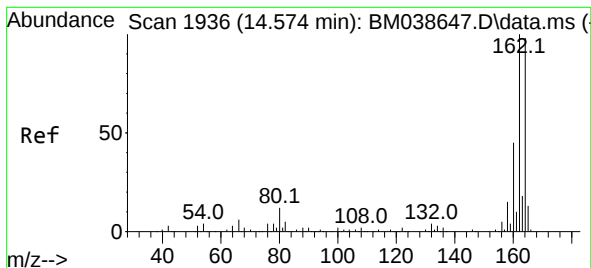
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023



#38
1-Methylnaphthalene
Concen: 3.005 ng
RT: 12.569 min Scan# 1595
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Tgt Ion:142 Resp: 21283
Ion Ratio Lower Upper
142 100
141 92.0 75.5 113.3
116 3.5 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.527 min Scan# 1936

Delta R.T. -0.012 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Instrument :

BNA_M

ClientSampleId :

B-13-SB03

Tgt Ion:164 Resp: 108689

Ion Ratio Lower Upper

164 100

162 100.9 81.4 122.0

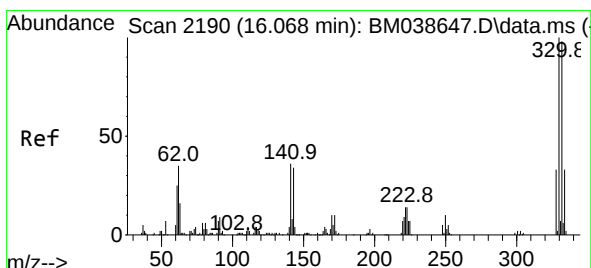
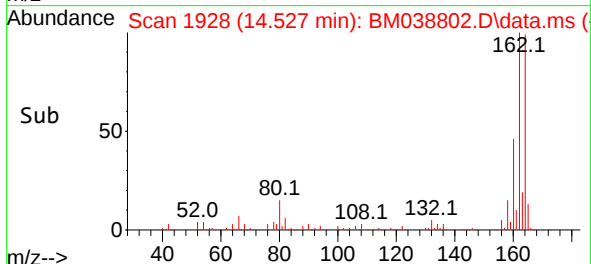
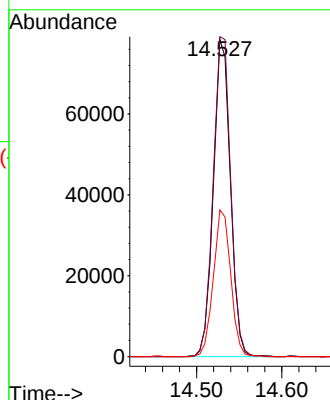
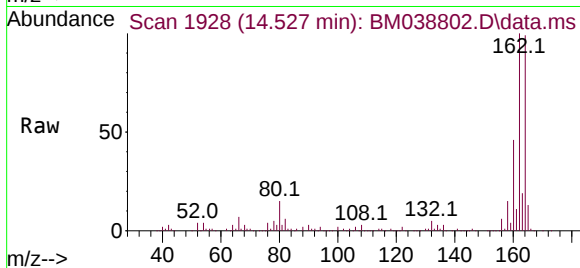
160 46.2 36.5 54.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/21/2023

Supervised By :Jagrut Upadhyay 02/21/2023



#42

2,4,6-Tribromophenol

Concen: 81.356 ng

RT: 16.027 min Scan# 2183

Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

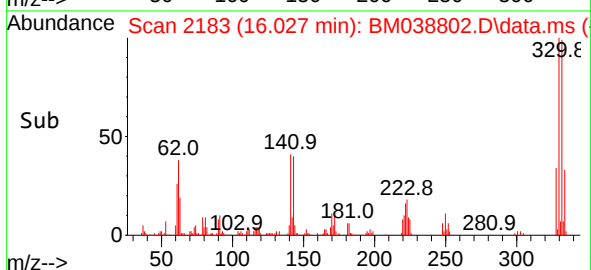
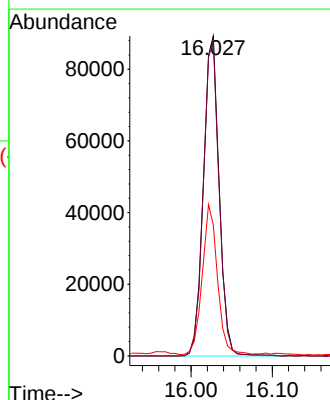
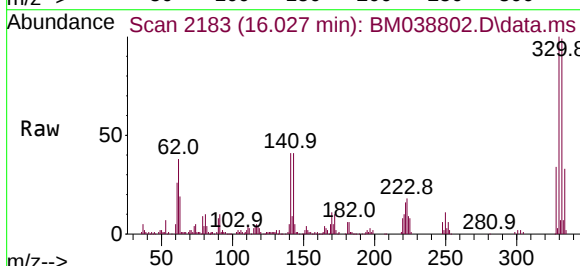
Tgt Ion:330 Resp: 120189

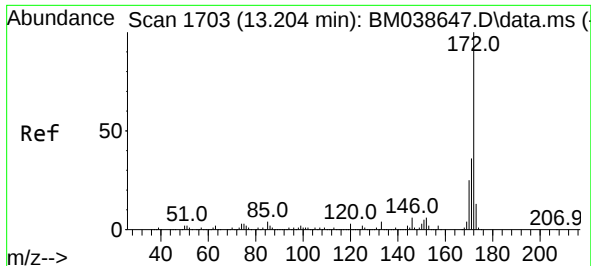
Ion Ratio Lower Upper

330 100

332 98.6 77.8 116.6

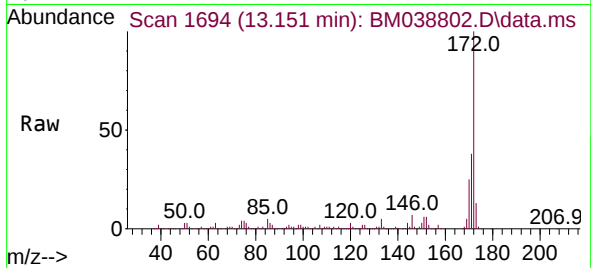
141 45.1 31.0 46.6





#45
2-Fluorobiphenyl
Concen: 60.209 ng
RT: 13.151 min Scan# 1694
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

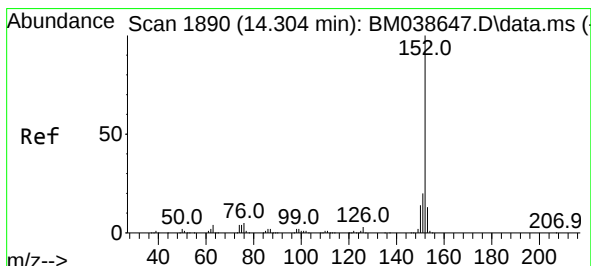
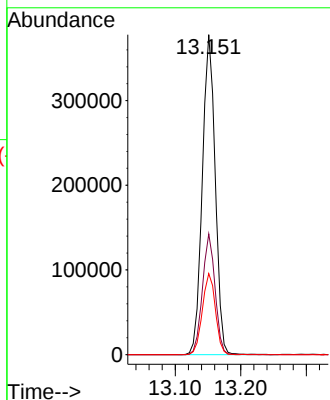
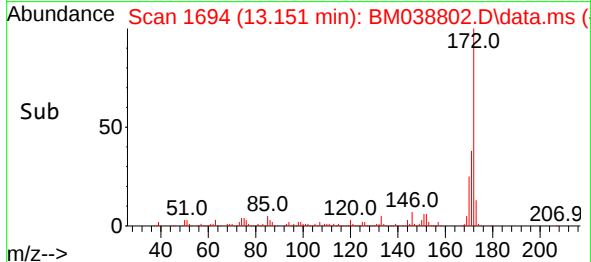
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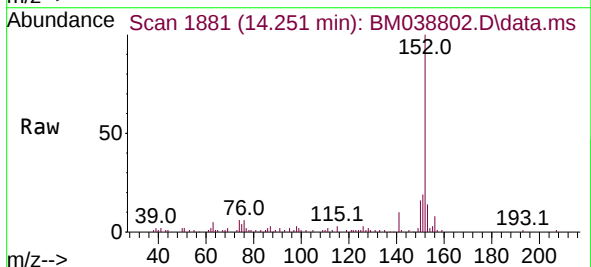
Tgt Ion:172 Resp: 514027
Ion Ratio Lower Upper
172 100
171 37.7 28.7 43.1
170 25.4 20.0 30.0

Manual Integrations
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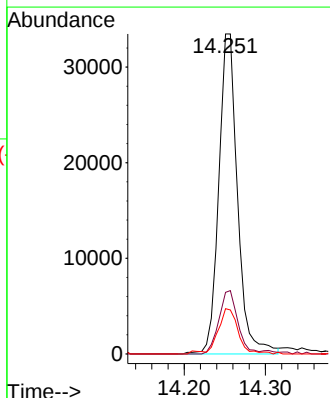
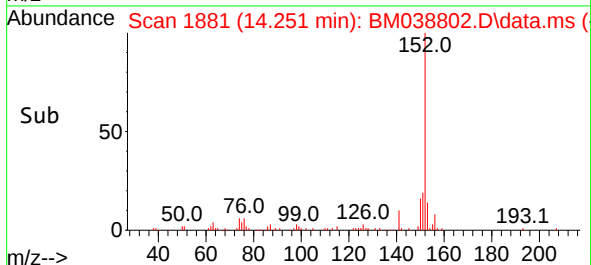
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023

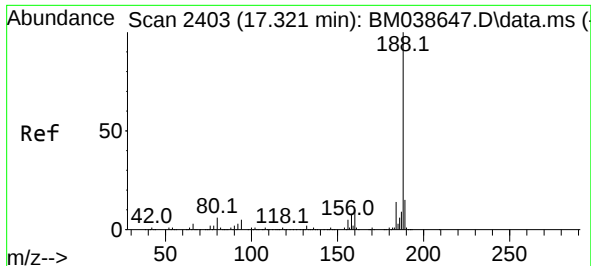


#49
Acenaphthylene
Concen: 5.023 ng
RT: 14.251 min Scan# 1881
Delta R.T. -0.012 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33



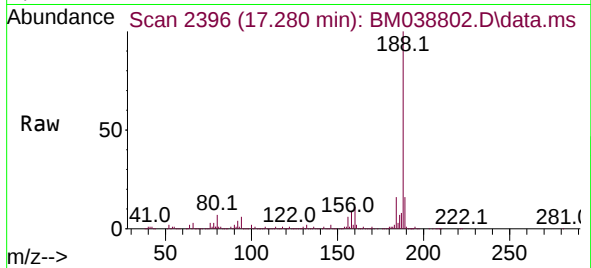
Tgt Ion:152 Resp: 53604
Ion Ratio Lower Upper
152 100
151 19.2 16.1 24.1
153 14.1 10.0 15.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.280 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

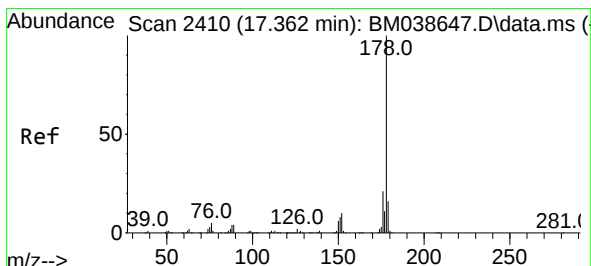
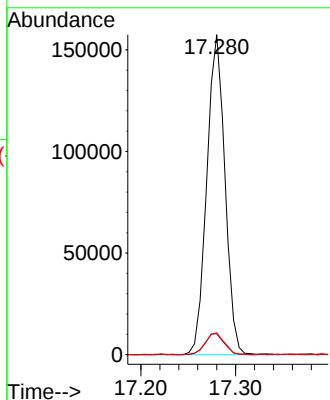
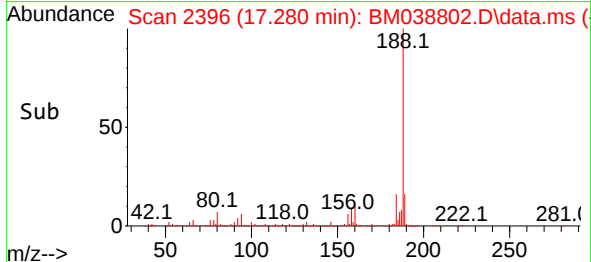
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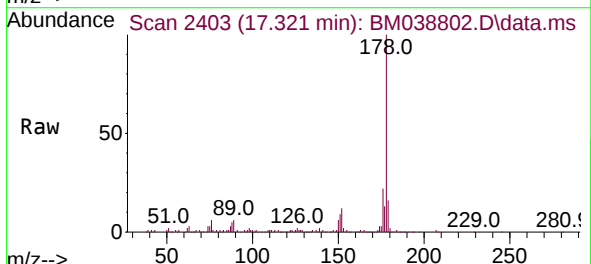
Tgt Ion:188 Resp: 210042
Ion Ratio Lower Upper
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94 6.5 4.2 6.4
80 6.8 4.6 7.0

Manual Integrations
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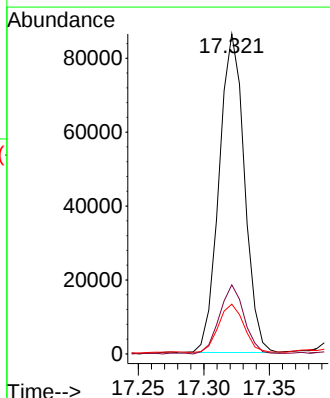
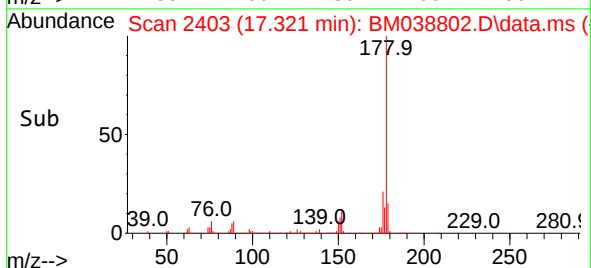
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023

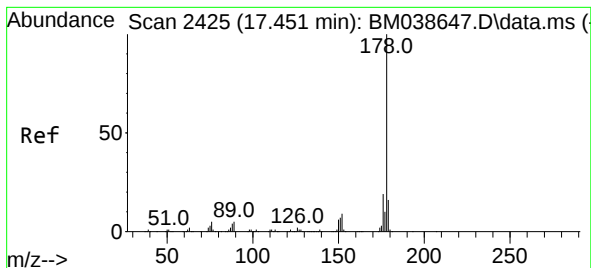


#71
Phenanthrene
Concen: 9.313 ng
RT: 17.321 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33



Tgt Ion:178 Resp: 116152
Ion Ratio Lower Upper
178 100
176 21.6 16.7 25.1
179 15.5 12.5 18.7





#72

Anthracene

Concen: 3.954 ng

RT: 17.410 min Scan# 24

Delta R.T. -0.012 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Instrument :

BNA_M

ClientSampleId :

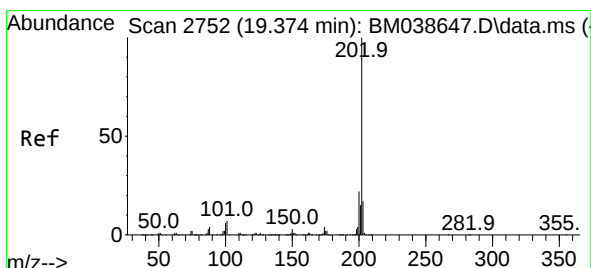
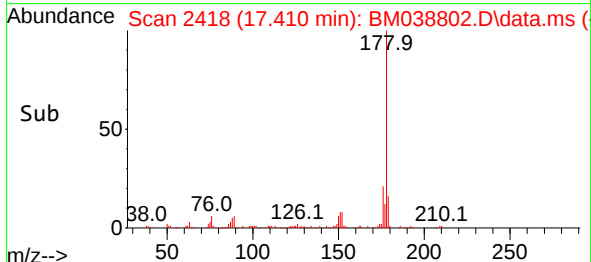
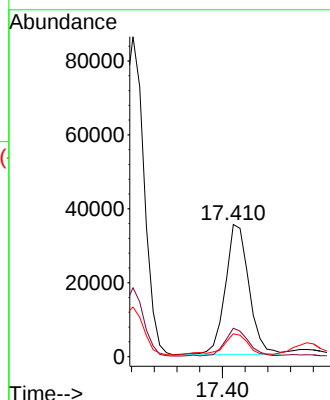
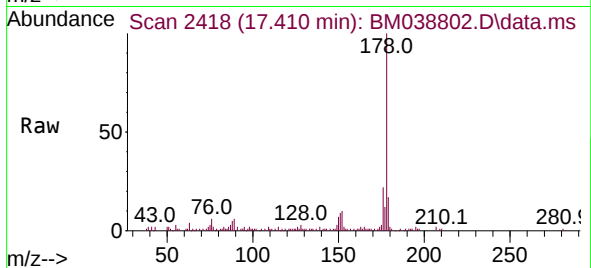
B-13-SB03

Tgt Ion:178 Resp: 50448
 Ion Ratio Lower Upper
 178 100
 176 21.6 15.6 23.4
 179 17.2 12.4 18.6

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Reviewed By :Christian Giraldo 02/21/2023
 Supervised By :Jagrut Upadhyay 02/21/2023



#75

Fluoranthene

Concen: 18.880 ng

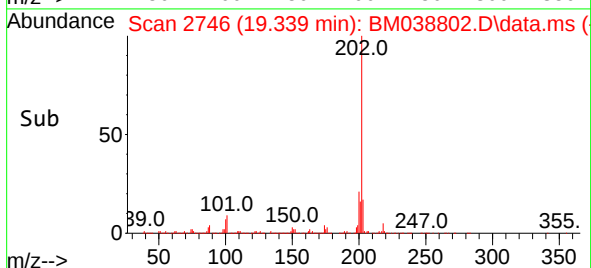
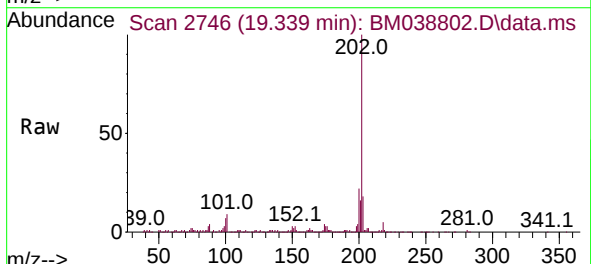
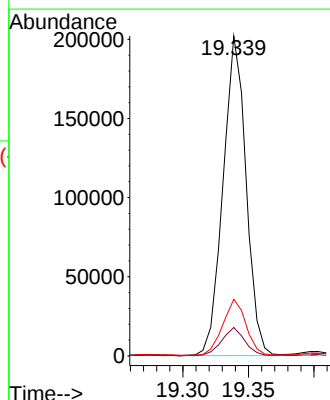
RT: 19.339 min Scan# 2746

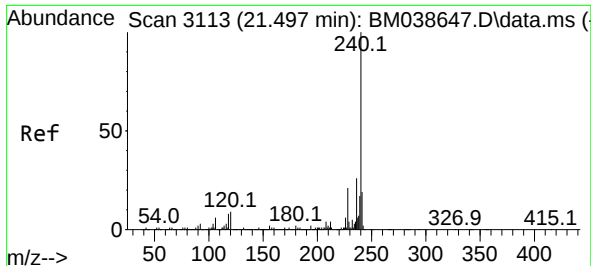
Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

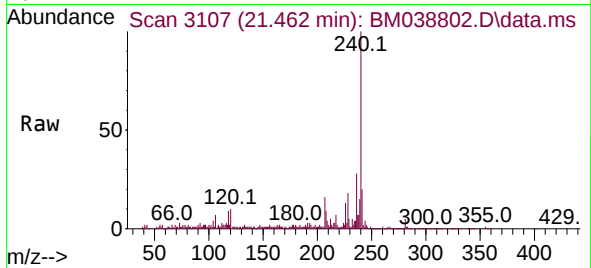
Tgt Ion:202 Resp: 247227
 Ion Ratio Lower Upper
 202 100
 101 8.9 0.0 27.4
 203 17.7 0.0 37.3





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.462 min Scan# 3113
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

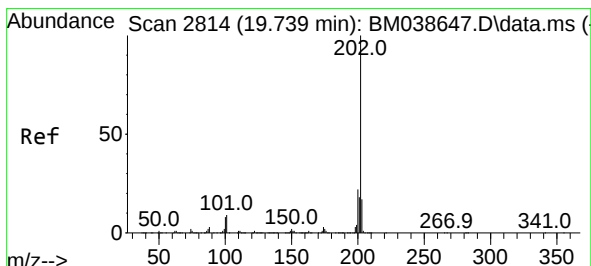
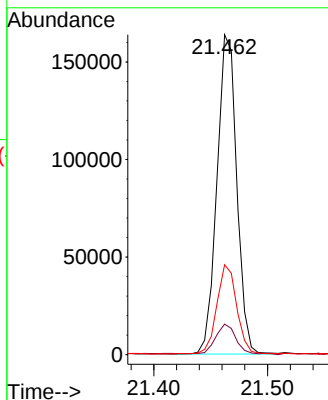
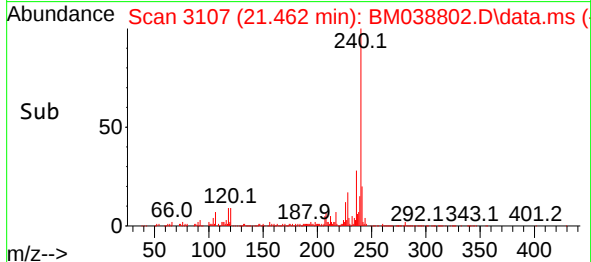
Instrument :
BNA_M
ClientSampleId :
B-13-SB03



Tgt Ion:240 Resp: 198183
Ion Ratio Lower Upper
240 100
120 9.5 7.0 10.4
236 28.1 20.9 31.3

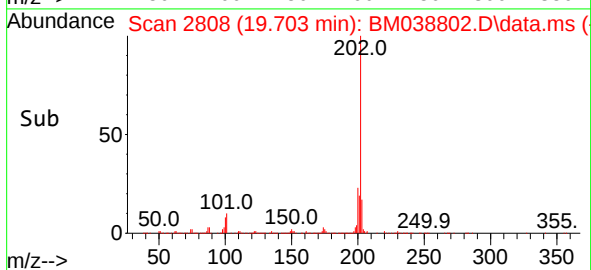
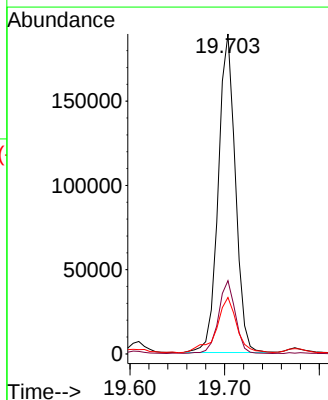
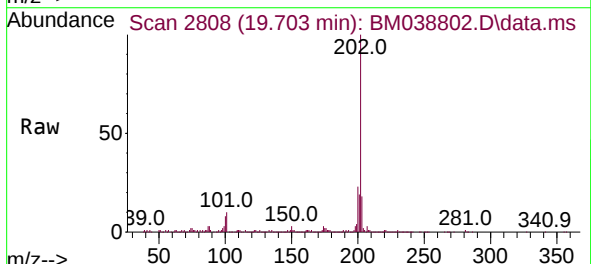
Manual Integrations
APPROVED

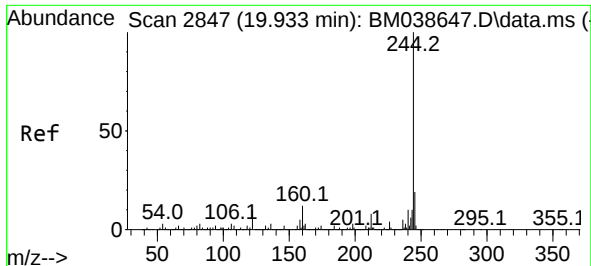
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023



#78
Pyrene
Concen: 15.506 ng
RT: 19.703 min Scan# 2808
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

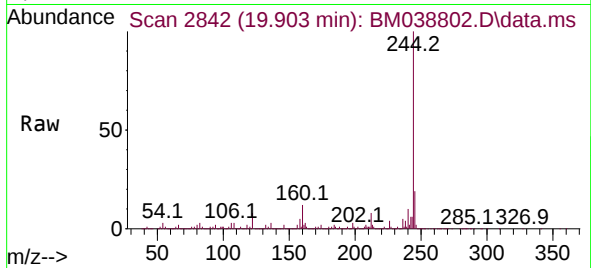
Tgt Ion:202 Resp: 236590
Ion Ratio Lower Upper
202 100
200 22.9 17.8 26.6
203 17.6 13.5 20.3





#79
 Terphenyl-d14
 Concen: 60.517 ng
 RT: 19.903 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM038802.D
 Acq: 21 Feb 2023 00:33

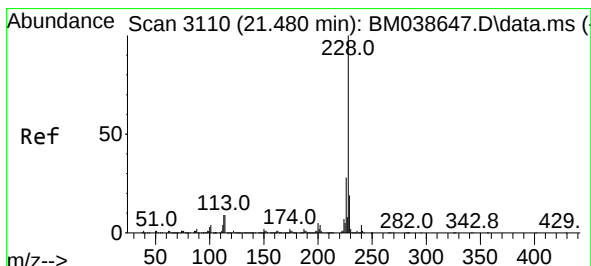
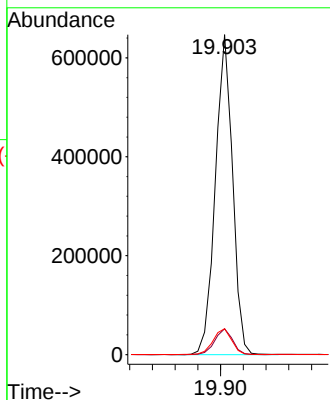
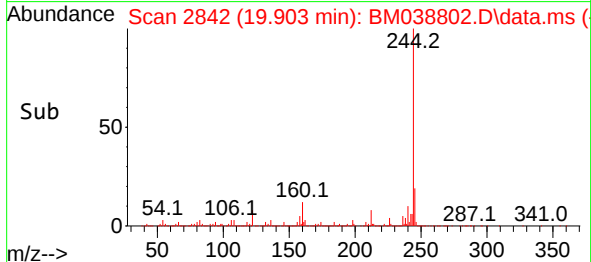
Instrument :
 BNA_M
 ClientSampleId :
 B-13-SB03



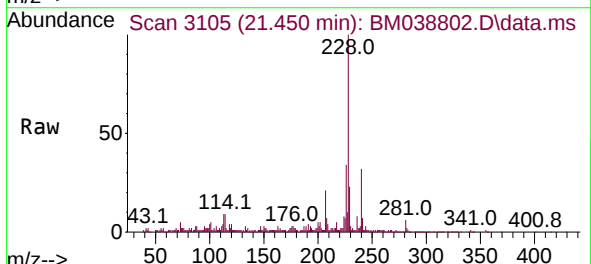
Tgt Ion:244 Resp: 679642
 Ion Ratio Lower Upper
 244 100
 212 8.1 6.6 9.8
 122 8.1 7.8 11.8

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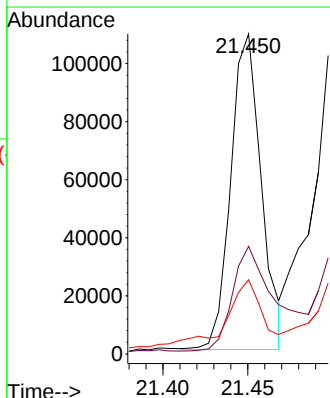
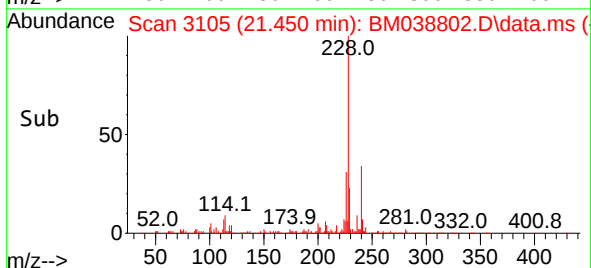
Reviewed By :Christian Giraldo 02/21/2023
 Supervised By :Jagrut Upadhyay 02/21/2023

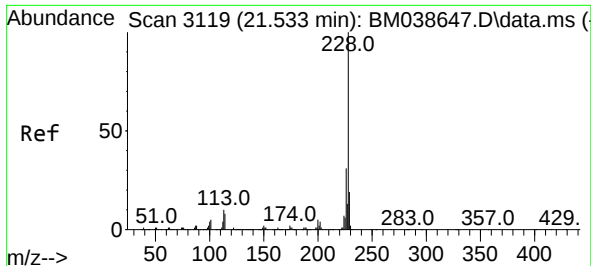


#81
 Benzo(a)anthracene
 Concen: 9.714 ng m
 RT: 21.450 min Scan# 3105
 Delta R.T. -0.006 min
 Lab File: BM038802.D
 Acq: 21 Feb 2023 00:33



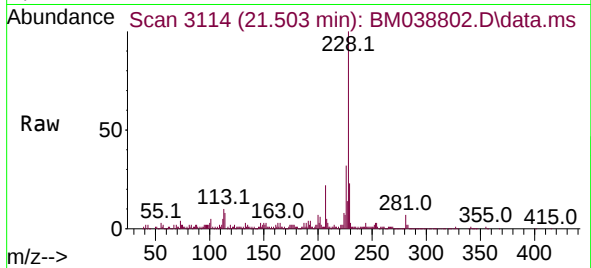
Tgt Ion:228 Resp: 136181
 Ion Ratio Lower Upper
 228 100
 226 33.6 22.2 33.4#
 229 23.2 15.5 23.3





#83
Chrysene
Concen: 11.878 ng
RT: 21.503 min Scan# 3119
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

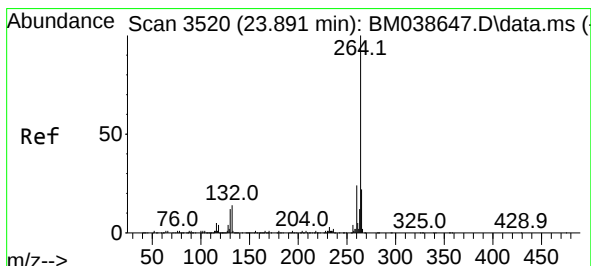
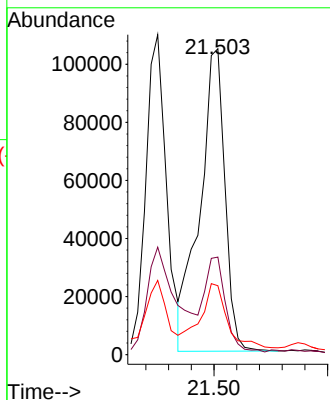
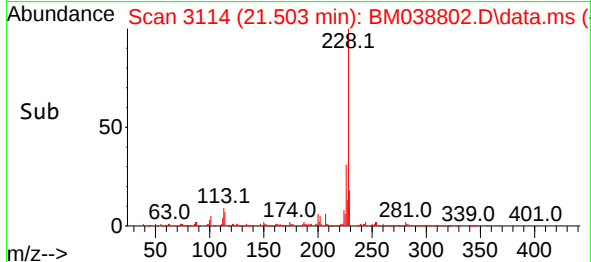
Instrument :
BNA_M
ClientSampleId :
B-13-SB03



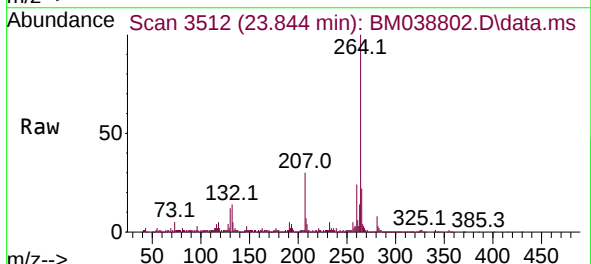
Tgt Ion:228 Resp: 160440
Ion Ratio Lower Upper
228 100
226 31.9 24.7 37.1
229 22.5 15.5 23.3

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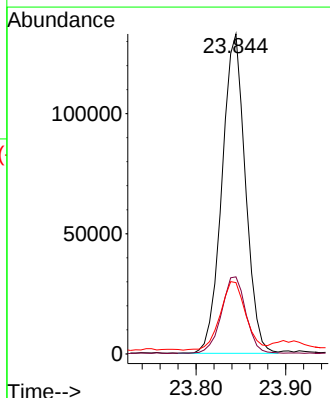
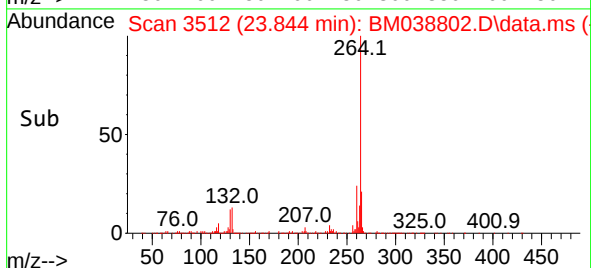
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023

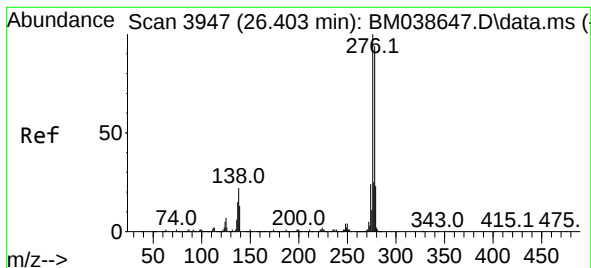


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.844 min Scan# 3512
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33



Tgt Ion:264 Resp: 241934
Ion Ratio Lower Upper
264 100
260 24.1 19.6 29.4
265 22.3 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.805 ng

RT: 26.309 min Scan# 3947

Delta R.T. -0.023 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Instrument :

BNA_M

ClientSampleId :

B-13-SB03

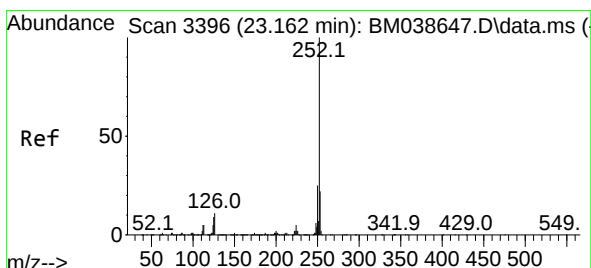
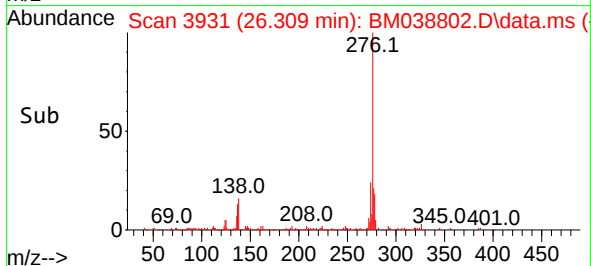
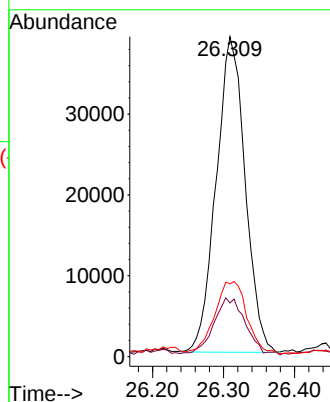
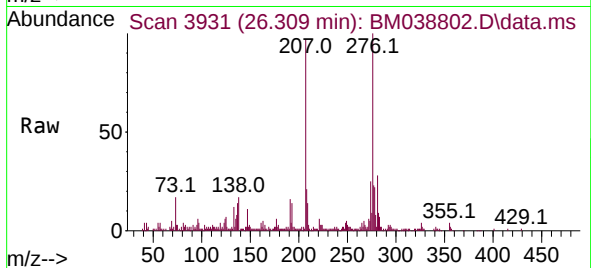
Tgt Ion:	276	Resp:	110631
Ion Ratio	Lower	Upper	
276	100		
138	19.9	17.2	25.8
277	25.3	20.2	30.4

Manual Integrations

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Reviewed By :Christian Giraldo 02/21/2023

Supervised By :Jagrut Upadhyay 02/21/2023



#88

Benzo(b)fluoranthene

Concen: 15.717 ng

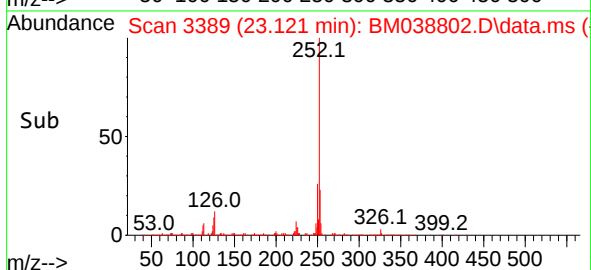
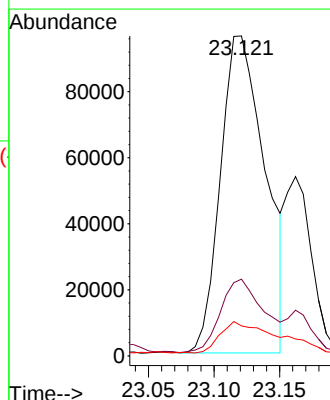
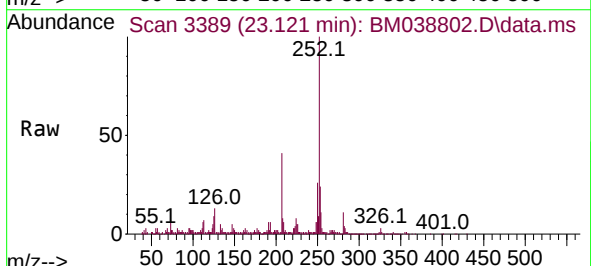
RT: 23.121 min Scan# 3389

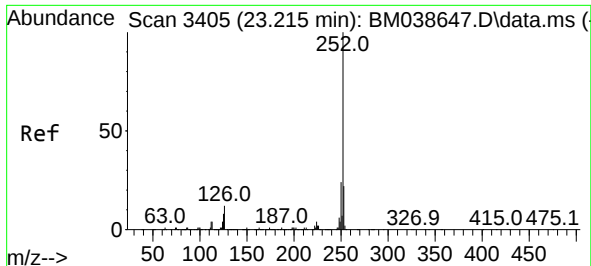
Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Tgt Ion:	252	Resp:	227757
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.4	26.2
125	9.4	7.0	10.6





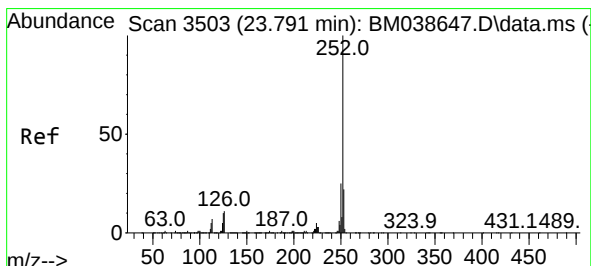
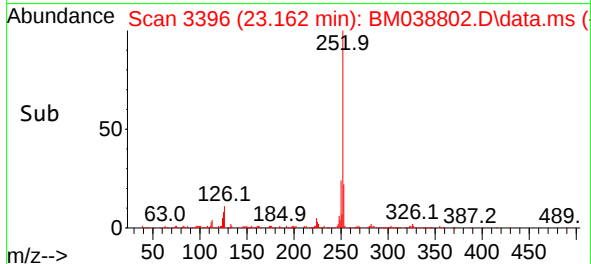
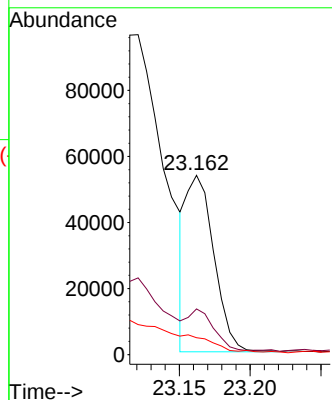
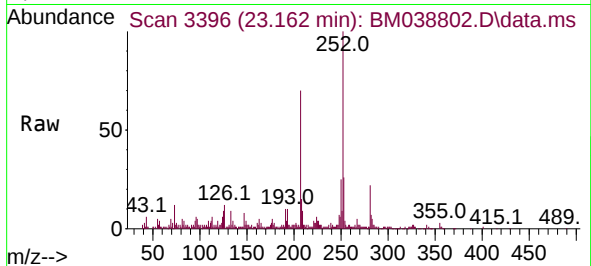
#89
Benzo(k)fluoranthene
Concen: 4.965 ng m
RT: 23.162 min Scan# 3396
Delta R.T. -0.012 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Instrument :
BNA_M
ClientSampleId :
B-13-SB03

Tgt Ion:252 Resp: 73064
Ion Ratio Lower Upper
252 100
253 25.5 17.4 26.0
125 9.4 6.6 9.8

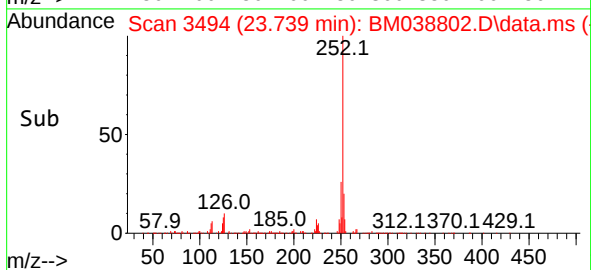
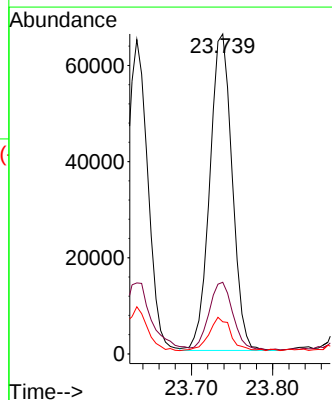
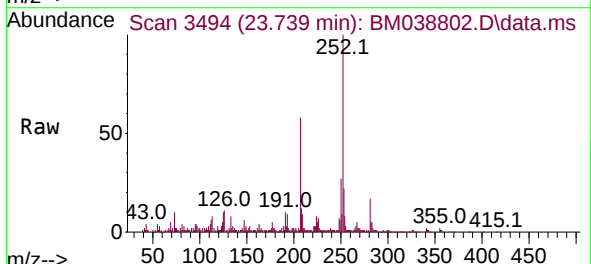
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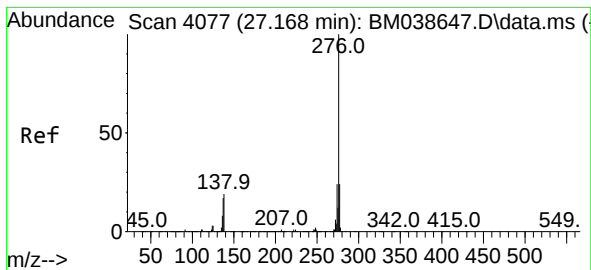
Reviewed By :Christian Giraldo 02/21/2023
Supervised By :Jagrut Upadhyay 02/21/2023



#90
Benzo(a)pyrene
Concen: 8.804 ng
RT: 23.739 min Scan# 3494
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

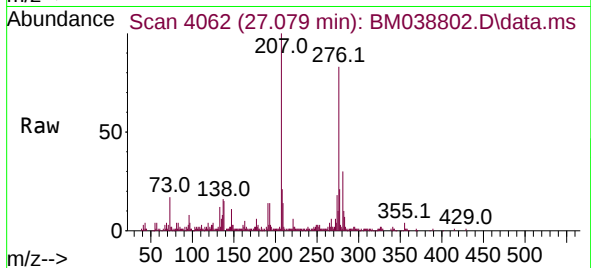
Tgt Ion:252 Resp: 126158
Ion Ratio Lower Upper
252 100
253 22.4 17.7 26.5
125 10.0 7.8 11.8





#92
Benzo(g,h,i)perylene
Concen: 6.317 ng
RT: 27.079 min Scan# 40
Delta R.T. -0.017 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Instrument :
BNA_M
ClientSampleId :
B-13-SB03



Tgt Ion: 276 Resp: 102383
Ion Ratio Lower Upper
276 100
277 24.8 19.1 28.7
138 18.3 15.3 22.9

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 02/21/2023
Supervised By : Jagrut Upadhyay 02/21/2023

