

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041123\
 Data File : BM039391.D
 Acq On : 11 Apr 2023 13:09
 Operator : CG/JU
 Sample : 02222-02DL 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MID-H4(ELEV-24)DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/12/2023
 Supervised By : Jagrut Upadhyay 04/12/2023

Quant Time: Apr 11 13:46:08 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 11 02:05:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.863	152	227188	20.000	ng	0.00
21) Naphthalene-d8	10.675	136	942900	20.000	ng	0.00
39) Acenaphthene-d10	14.516	164	575907	20.000	ng	0.00
64) Phenanthrene-d10	17.268	188	1224402	20.000	ng	0.00
76) Chrysene-d12	21.462	240	1162251	20.000	ng	0.00
86) Perylene-d12	23.850	264	1461392	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	145304	9.636	ng	0.00
7) Phenol-d6	7.034	99	185463	9.509	ng	-0.01
23) Nitrobenzene-d5	9.034	82	113528	5.852	ng	0.00
42) 2,4,6-Tribromophenol	16.010	330	68474	9.366	ng	0.00
45) 2-Fluorobiphenyl	13.139	172	254300	5.983	ng	0.00
79) Terphenyl-d14	19.892	244	392833	6.245	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.722	128	508831	10.015	ng	100
37) 2-Methylnaphthalene	12.333	142	142239	4.022	ng	98
38) 1-Methylnaphthalene	12.557	142	105692m	3.191	ng	
52) Acenaphthene	14.580	154	220423	6.596	ng	99
55) Dibenzofuran	14.916	168	227896	4.236	ng	99
58) Fluorene	15.563	166	316113	7.420	ng	99
71) Phenanthrene	17.310	178	3127649	46.641	ng	100
72) Anthracene	17.398	178	655855	9.592	ng	100
73) Carbazole	17.674	167	195619	3.062	ng	100
75) Fluoranthene	19.327	202	2784013	36.420	ng	99
78) Pyrene	19.692	202	2636964	31.871	ng	99
81) Benzo(a)anthracene	21.445	228	1087627	13.269	ng	99
83) Chrysene	21.497	228	1001526	12.657	ng	97
87) Indeno(1,2,3-cd)pyrene	26.321	276	539959	5.015	ng	95
88) Benzo(b)fluoranthene	23.127	252	1205884	13.486	ng	98
89) Benzo(k)fluoranthene	23.162	252	367492m	4.035	ng	
90) Benzo(a)pyrene	23.744	252	952492	10.843	ng	97
92) Benzo(g,h,i)perylene	27.079	276	543663	6.114	ng	98

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

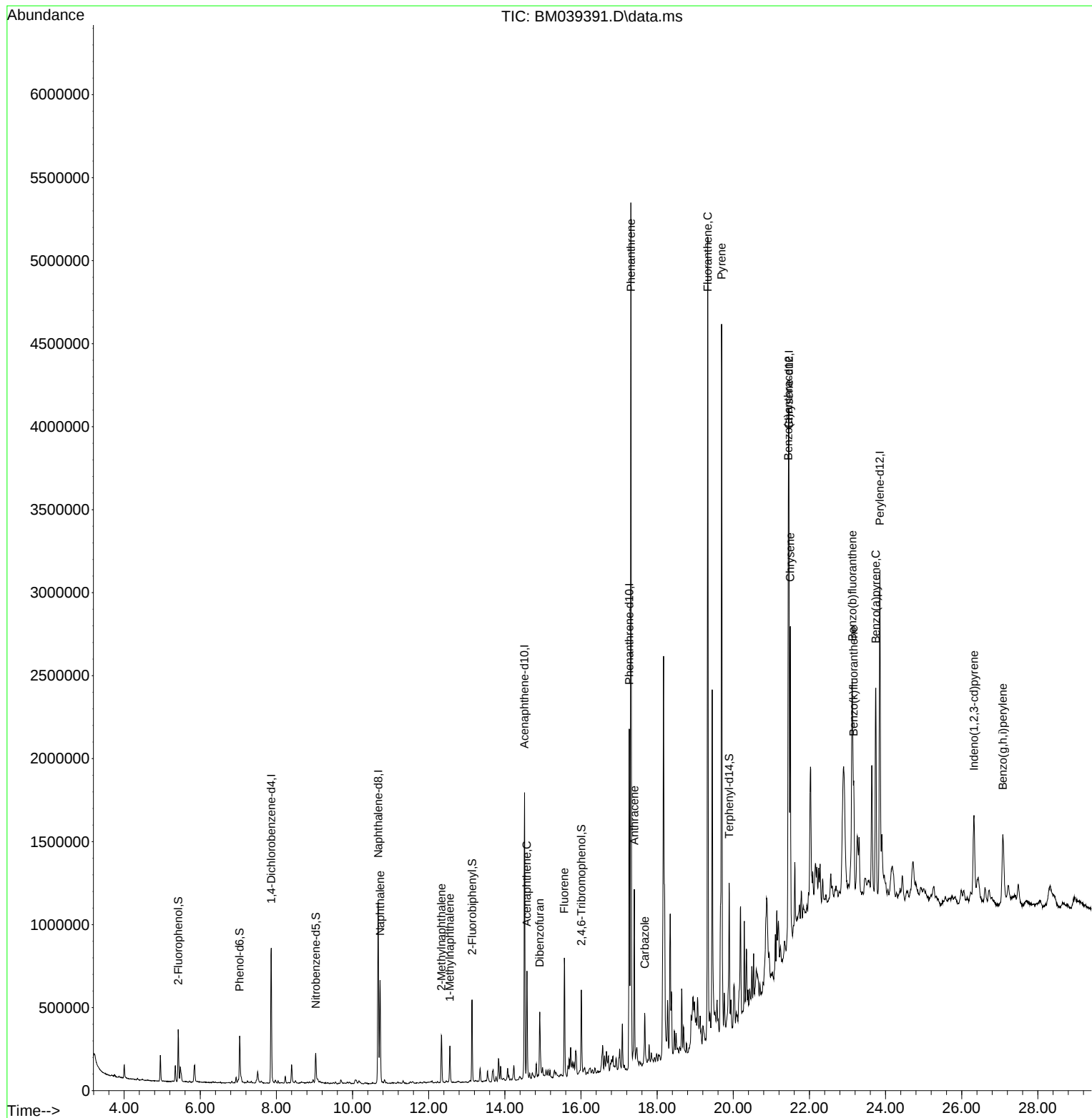
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041123\
Data File : BM039391.D
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ALS Vial : 4 Sample Multiplier: 1

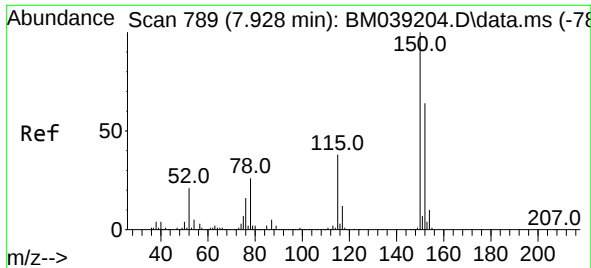
Instrument :
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MID-H4(ELEV-24)DL

Quant Time: Apr 11 13:46:08 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 11 02:05:37 2023
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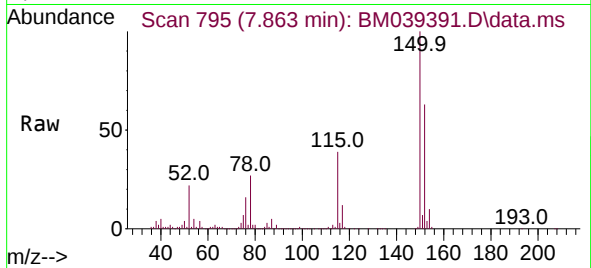
Reviewed By : Christian Giraldo 04/12/2023
Supervised By : Jagrut Upadhyay 04/12/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 795
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

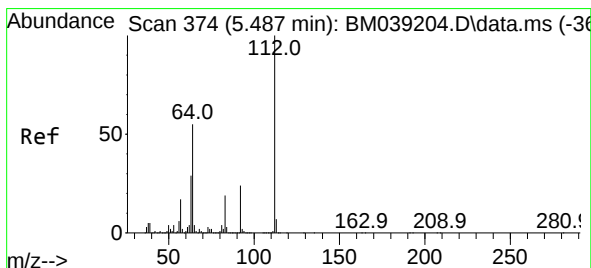
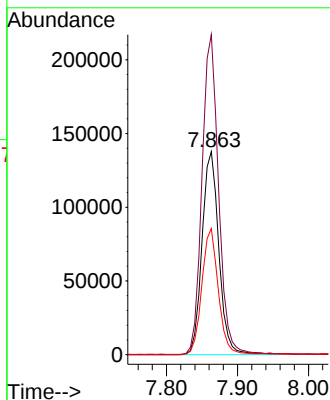
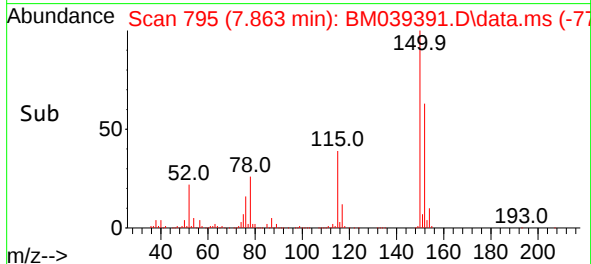
Instrument :
BNA_M
ClientSampleId :
MID-H4(ELEV-24)DL



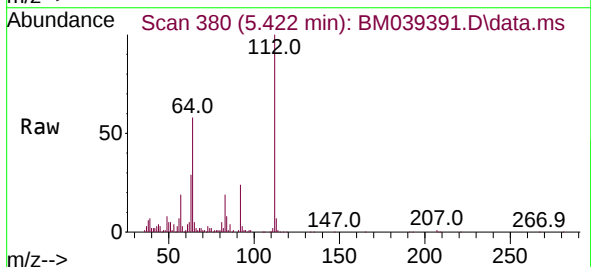
Tgt Ion:152 Resp: 22718
Ion Ratio Lower Upper
152 100
150 157.6 125.5 188.3
115 62.2 48.1 72.1

Manual Integrations
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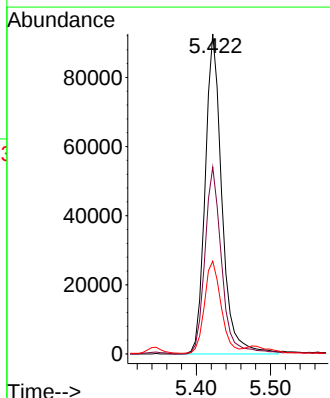
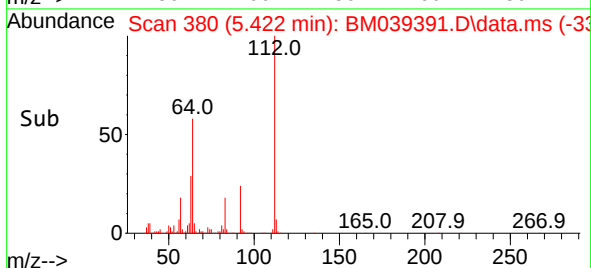
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023

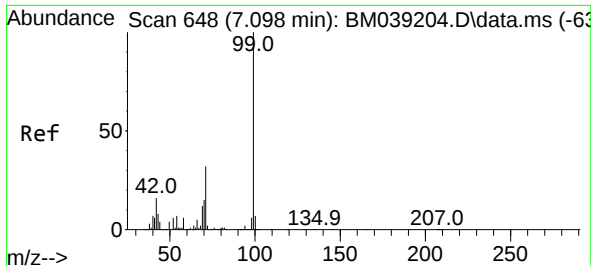


#5
2-Fluorophenol
Concen: 9.636 ng
RT: 5.422 min Scan# 380
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09



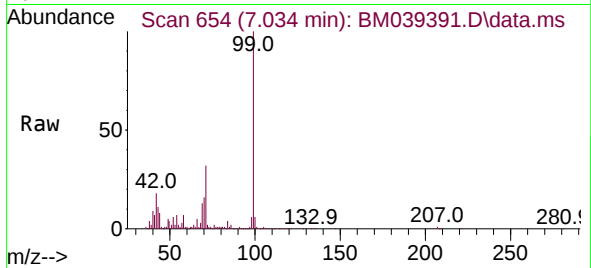
Tgt Ion:112 Resp: 145304
Ion Ratio Lower Upper
112 100
64 58.4 44.3 66.5
63 29.0 23.0 34.6





#7
Phenol-d6
Concen: 9.509 ng
RT: 7.034 min Scan# 61
Delta R.T. -0.012 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

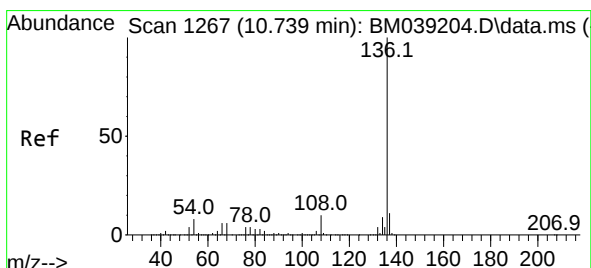
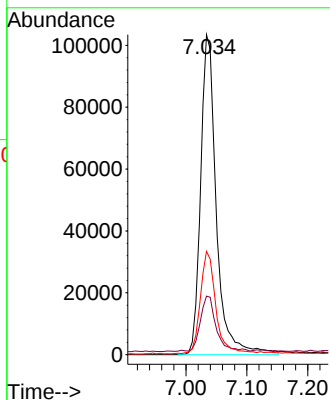
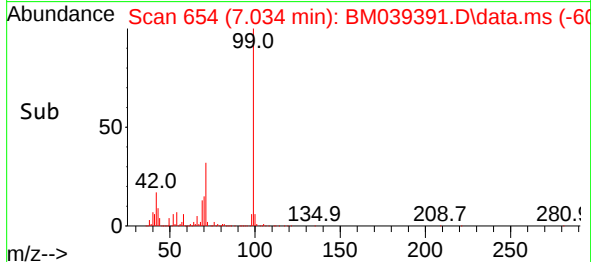
Instrument :
BNA_M
ClientSampleId :
MID-H4(ELEV-24)DL



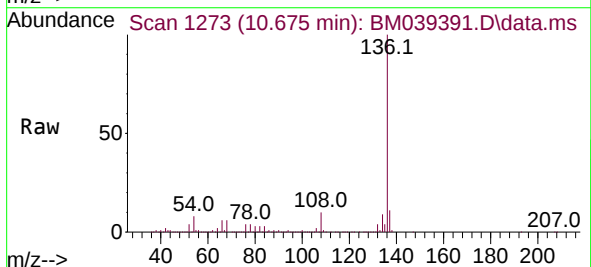
Tgt Ion: 99 Resp: 18546
Ion Ratio Lower Upper
99 100
42 18.3 13.0 19.6
71 32.3 25.5 38.3

Manual Integrations
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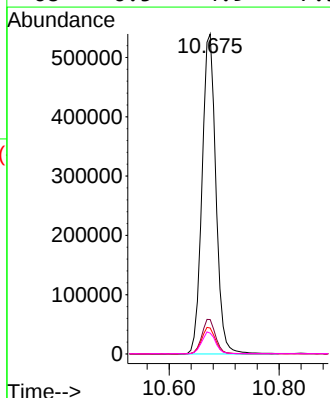
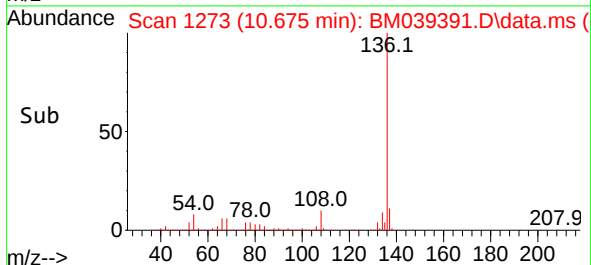
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023

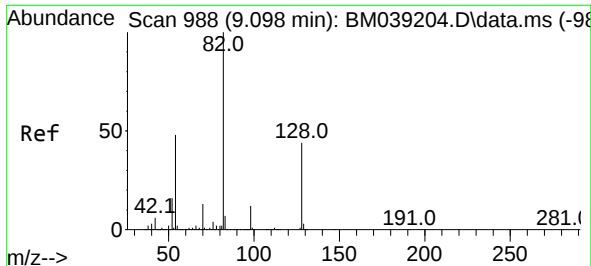


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.675 min Scan# 1273
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09



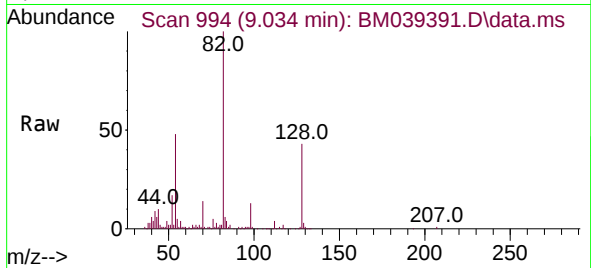
Tgt Ion:136 Resp: 942900
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 8.1 6.2 9.4
68 6.5 4.9 7.3





#23
Nitrobenzene-d5
Concen: 5.852 ng
RT: 9.034 min Scan# 994
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

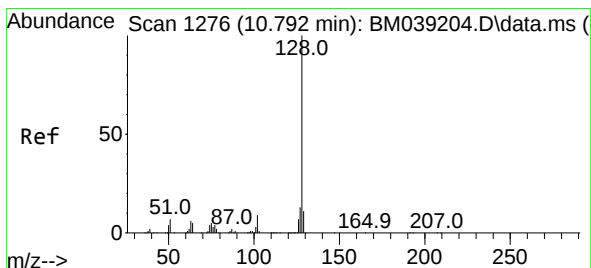
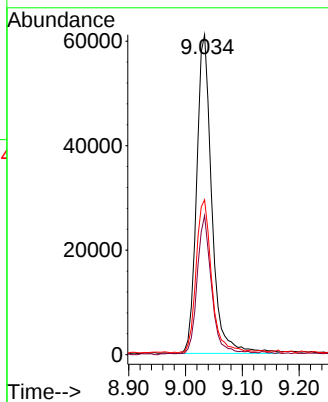
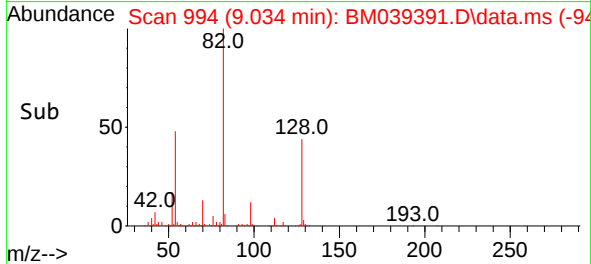
Instrument :
BNA_M
ClientSampleId :
MID-H4(ELEV-24)DL



Tgt Ion: 82 Resp: 113528
Ion Ratio Lower Upper
82 100
128 43.5 35.1 52.7
54 48.4 38.5 57.7

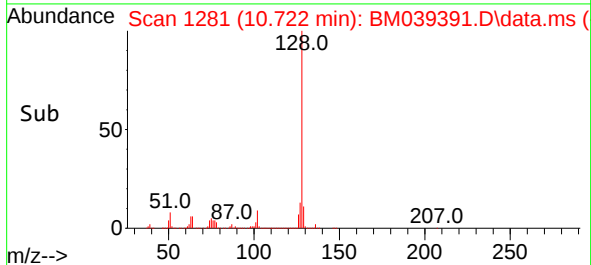
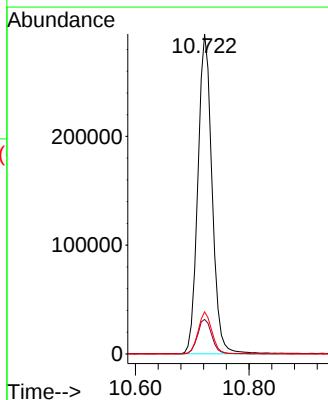
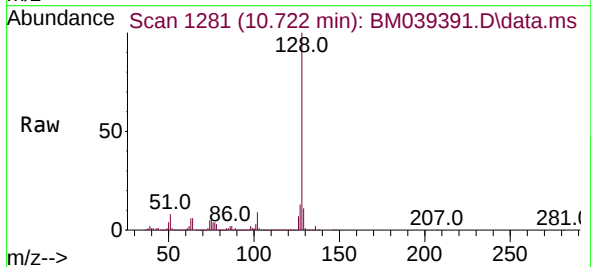
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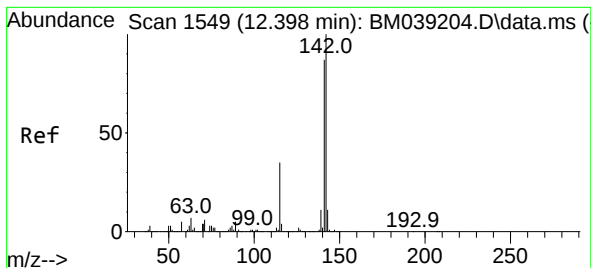
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#31
Naphthalene
Concen: 10.015 ng
RT: 10.722 min Scan# 1281
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

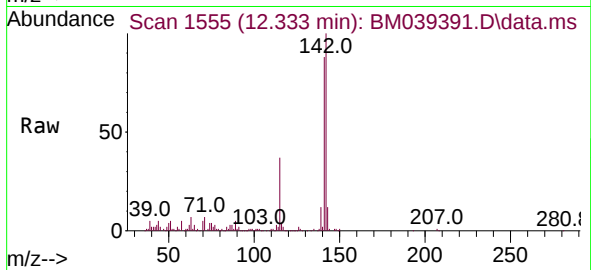
Tgt Ion:128 Resp: 508831
Ion Ratio Lower Upper
128 100
129 10.8 8.6 13.0
127 13.1 10.3 15.5





#37
2-Methylnaphthalene
Concen: 4.022 ng
RT: 12.333 min Scan# 1555
Delta R.T. -0.012 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

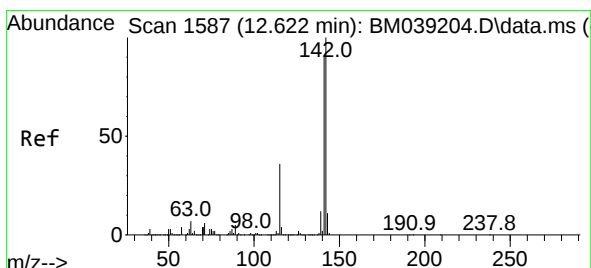
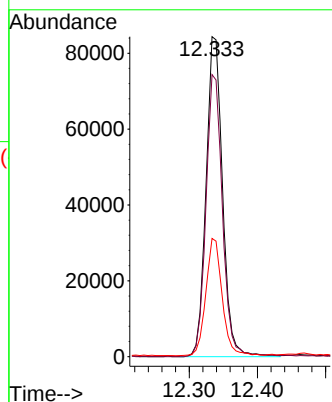
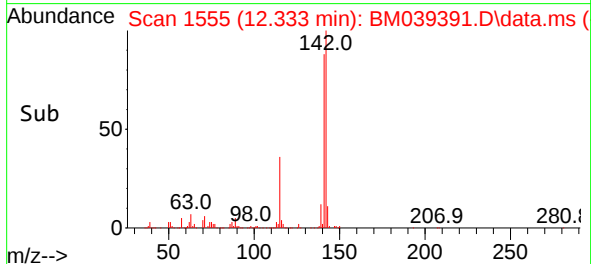
Instrument :
BNA_M
ClientSampleId :
MID-H4(ELEV-24)DL



Tgt Ion:142 Resp: 142239
Ion Ratio Lower Upper
142 100
141 88.2 69.8 104.8
115 36.9 27.8 41.8

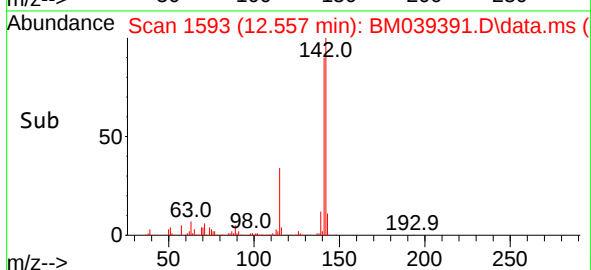
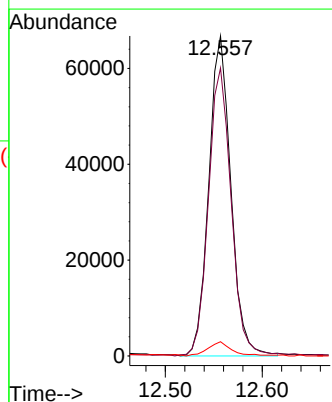
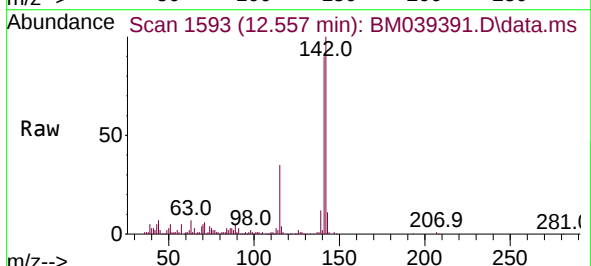
Manual Integrations
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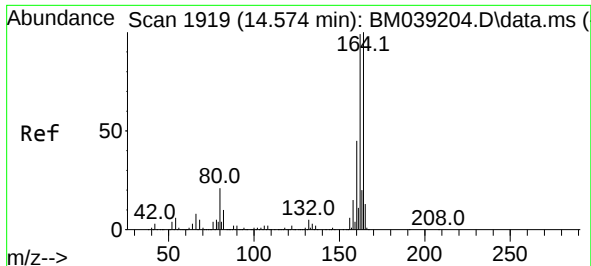
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#38
1-Methylnaphthalene
Concen: 3.191 ng m
RT: 12.557 min Scan# 1593
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

Tgt Ion:142 Resp: 105692
Ion Ratio Lower Upper
142 100
141 90.0 73.2 109.8
116 4.5 3.0 4.4#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.516 min Scan# 1919

Delta R.T. -0.006 min

Lab File: BM039391.D

Acq: 11 Apr 2023 13:09

Instrument :

BNA_M

ClientSampleId :

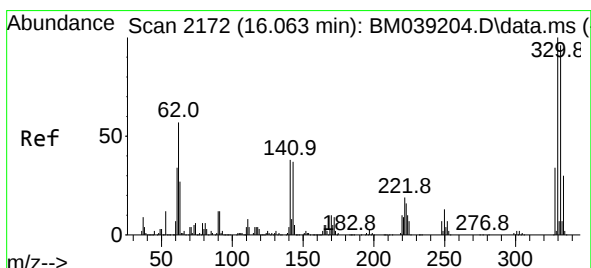
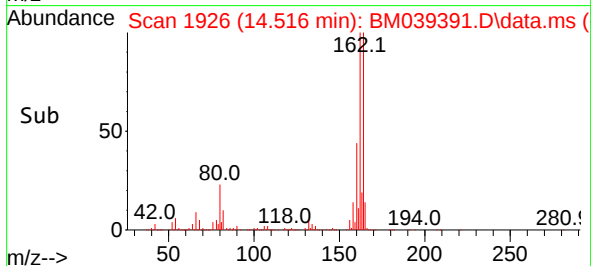
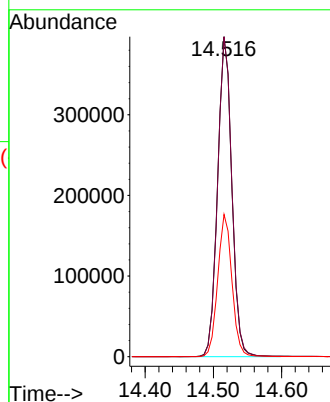
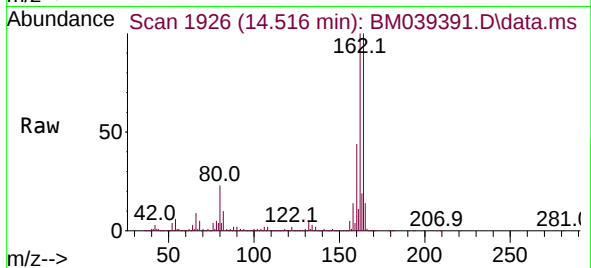
MID-H4(ELEV-24)DL

Tgt Ion:164 Resp: 57590
 Ion Ratio Lower Upper
 164 100
 162 100.0 79.1 118.7
 160 44.4 35.8 53.8

Manual Integrations

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Reviewed By :Christian Giraldo 04/12/2023
 Supervised By :Jagrut Upadhyay 04/12/2023



#42

2,4,6-Tribromophenol

Concen: 9.366 ng

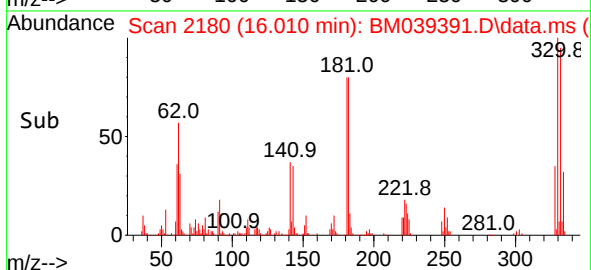
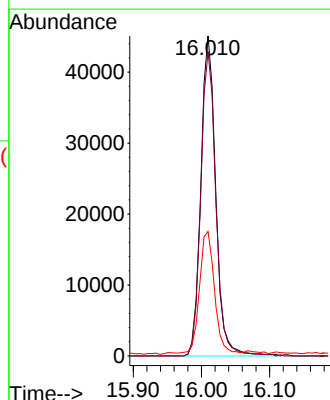
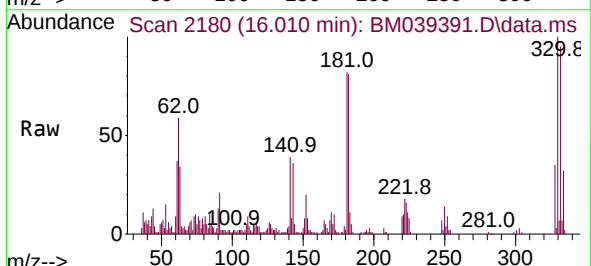
RT: 16.010 min Scan# 2180

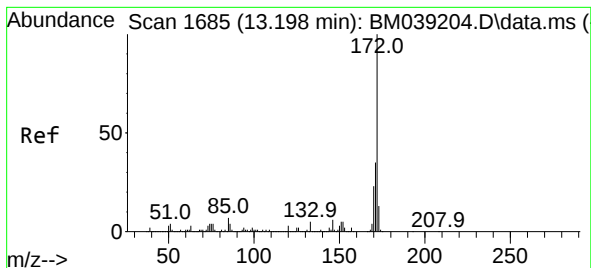
Delta R.T. -0.006 min

Lab File: BM039391.D

Acq: 11 Apr 2023 13:09

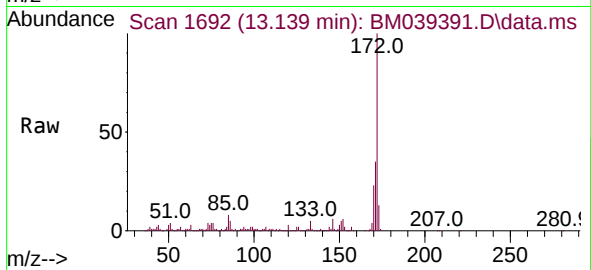
Tgt Ion:330 Resp: 68474
 Ion Ratio Lower Upper
 330 100
 332 96.4 77.4 116.0
 141 37.9 29.8 44.6





#45
2-Fluorobiphenyl
Concen: 5.983 ng
RT: 13.139 min Scan# 1692
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

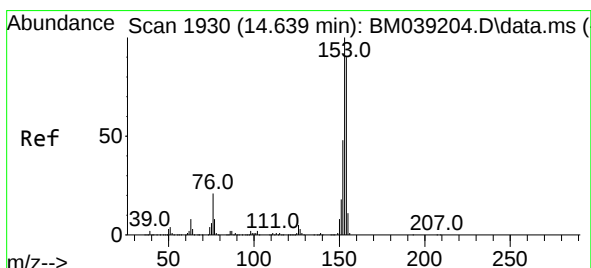
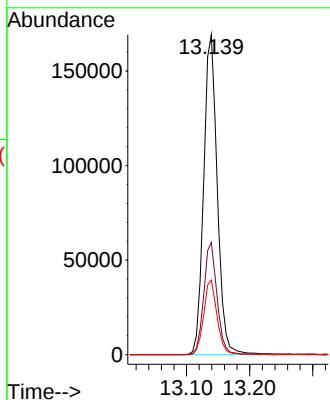
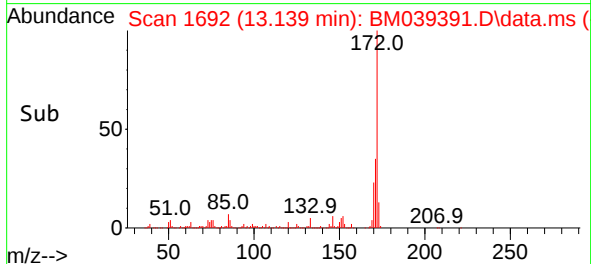
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MID-H4(ELEV-24)DL



Tgt Ion:172 Resp: 254300
Ion Ratio Lower Upper
172 100
171 35.0 28.0 42.0
170 23.3 18.7 28.1

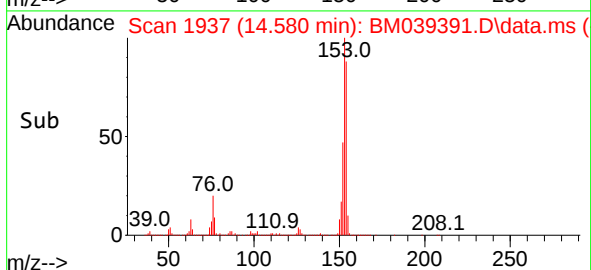
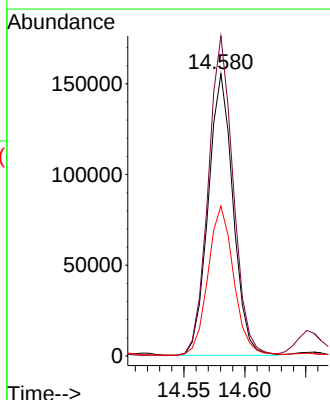
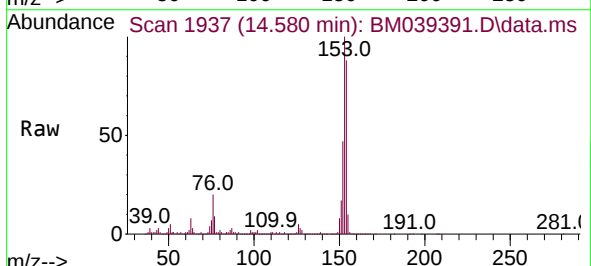
Manual Integrations
APPROVED

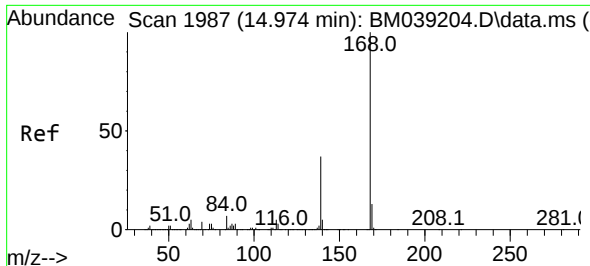
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#52
Acenaphthene
Concen: 6.596 ng
RT: 14.580 min Scan# 1937
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

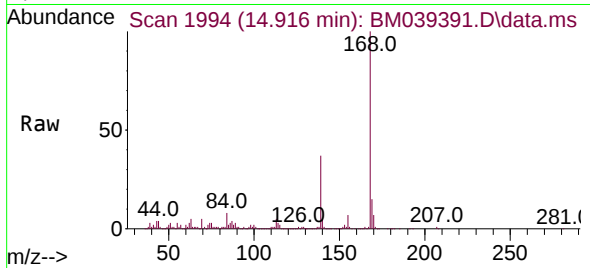
Tgt Ion:154 Resp: 220423
Ion Ratio Lower Upper
154 100
153 113.4 89.1 133.7
152 53.1 42.6 64.0





#55
Dibenzenofuran
Concen: 4.236 ng
RT: 14.916 min Scan# 1987
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

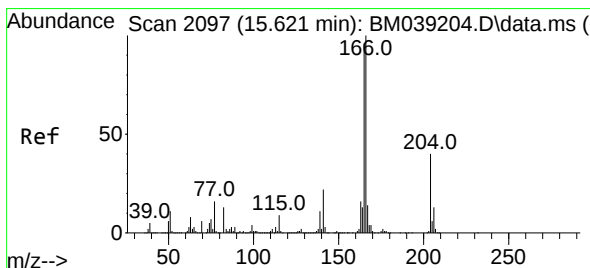
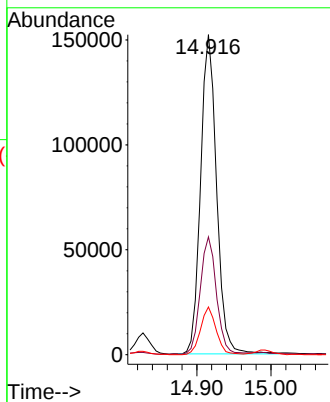
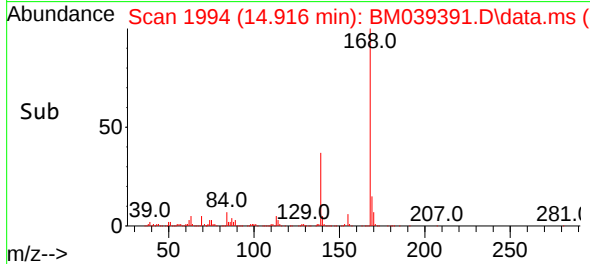
Instrument :
BNA_M
ClientSampleId :
MID-H4(ELEV-24)DL



Tgt Ion:168 Resp: 227890
Ion Ratio Lower Upper
168 100
139 36.8 29.4 44.2
169 14.9 10.6 15.8

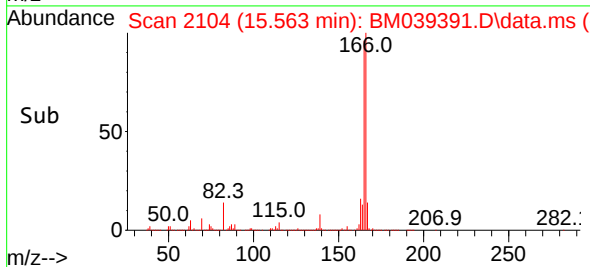
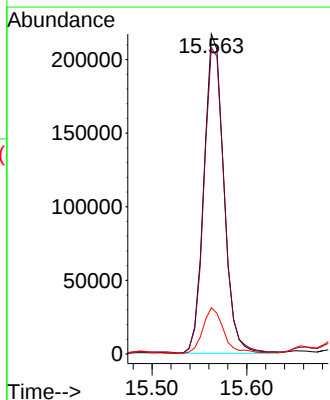
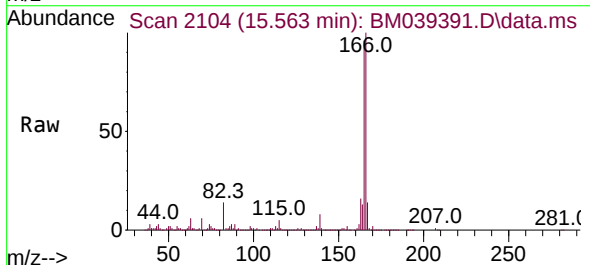
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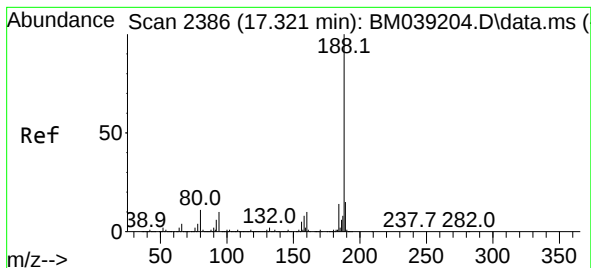
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#58
Fluorene
Concen: 7.420 ng
RT: 15.563 min Scan# 2104
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

Tgt Ion:166 Resp: 316113
Ion Ratio Lower Upper
166 100
165 95.7 76.9 115.3
167 14.5 10.8 16.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.268 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM039391.D

Acq: 11 Apr 2023 13:09

Instrument :

BNA_M

ClientSampleId :

MID-H4(ELEV-24)DL

Tgt Ion:188 Resp: 122440

Ion Ratio Lower Upper

188 100

94 10.1 8.2 12.4

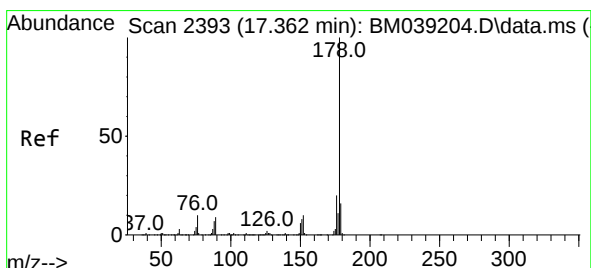
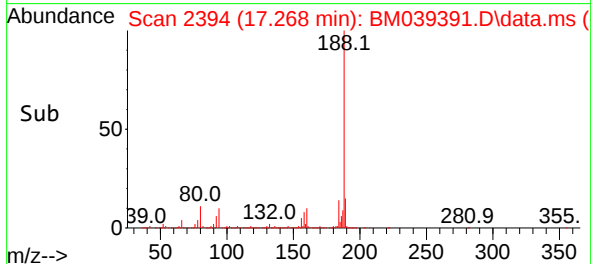
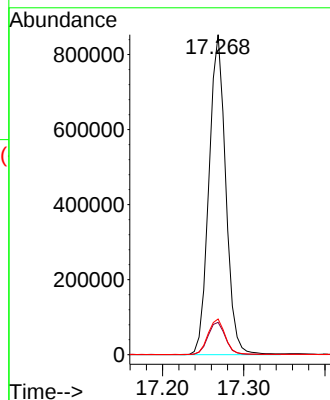
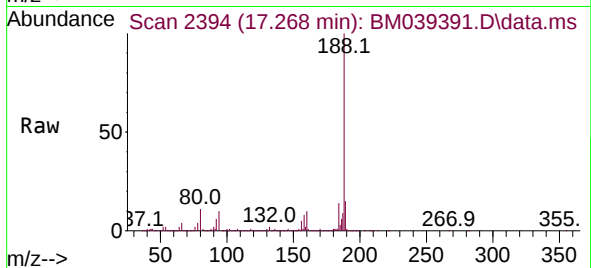
80 11.1 8.9 13.3

Manual Integrations

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Reviewed By :Christian Giraldo 04/12/2023

Supervised By :Jagrut Upadhyay 04/12/2023



#71

Phenanthrene

Concen: 46.641 ng

RT: 17.310 min Scan# 2401

Delta R.T. -0.006 min

Lab File: BM039391.D

Acq: 11 Apr 2023 13:09

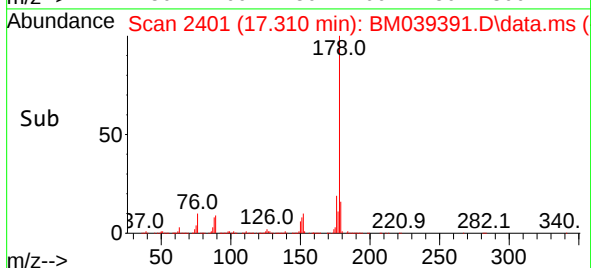
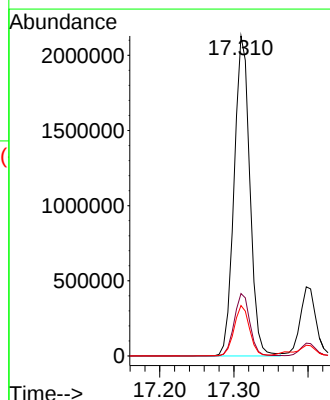
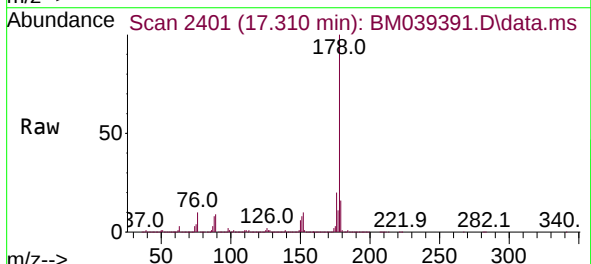
Tgt Ion:178 Resp: 3127649

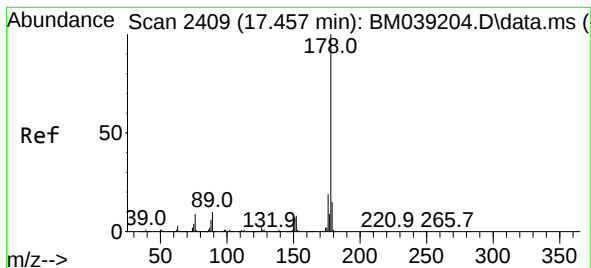
Ion Ratio Lower Upper

178 100

176 19.5 15.7 23.5

179 15.7 12.4 18.6





#72

Anthracene

Concen: 9.592 ng

RT: 17.398 min Scan# 24

Delta R.T. -0.006 min

Lab File: BM039391.D

Acq: 11 Apr 2023 13:09

Instrument :

BNA_M

ClientSampleId :

MID-H4(ELEV-24)DL

Tgt Ion:178 Resp: 65585

Ion Ratio Lower Upper

178 100

176 18.5 14.9 22.3

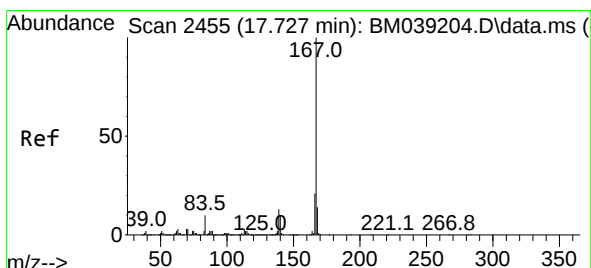
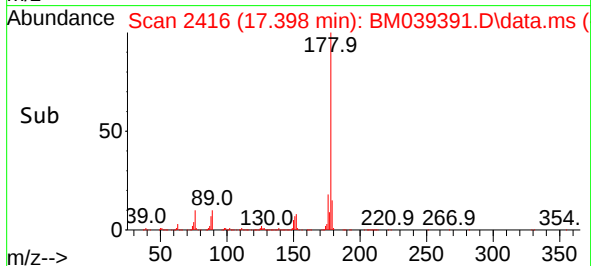
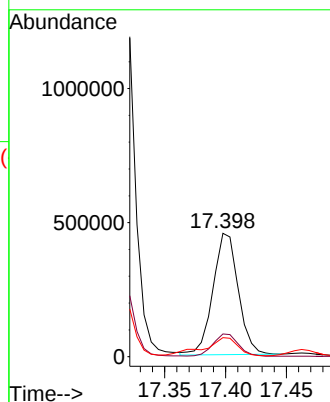
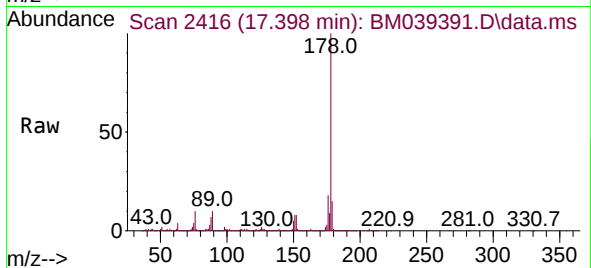
179 15.4 12.2 18.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/12/2023

Supervised By :Jagrut Upadhyay 04/12/2023



#73

Carbazole

Concen: 3.062 ng

RT: 17.674 min Scan# 2463

Delta R.T. -0.006 min

Lab File: BM039391.D

Acq: 11 Apr 2023 13:09

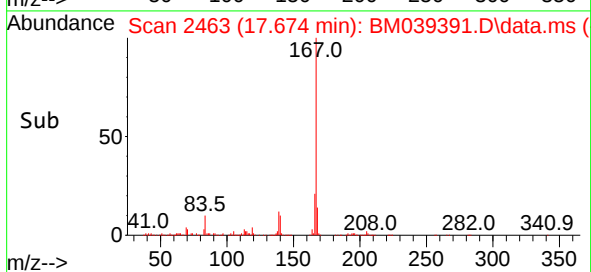
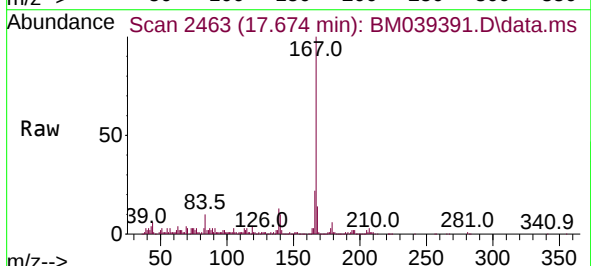
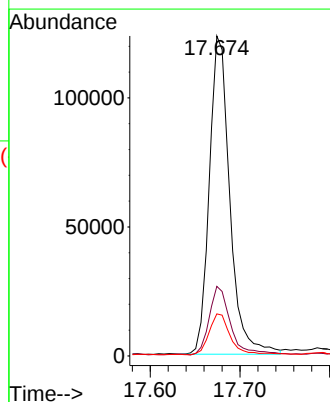
Tgt Ion:167 Resp: 195619

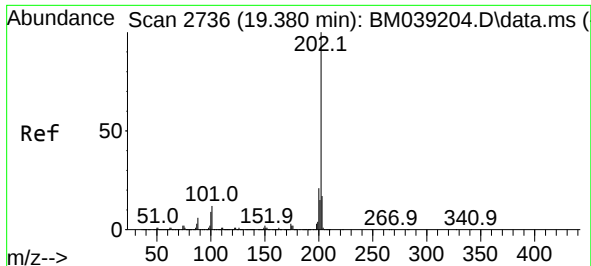
Ion Ratio Lower Upper

167 100

166 21.7 17.2 25.8

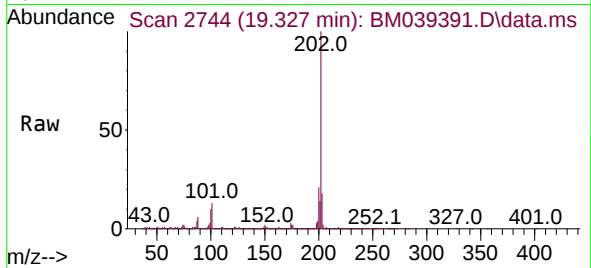
139 13.1 10.6 16.0





#75
Fluoranthene
Concen: 36.420 ng
RT: 19.327 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

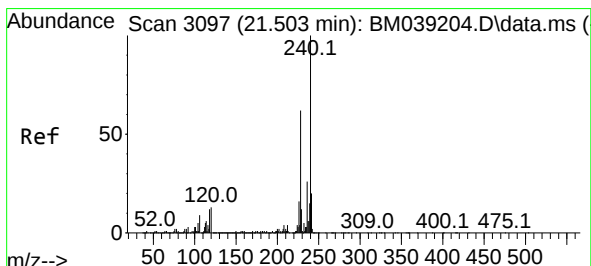
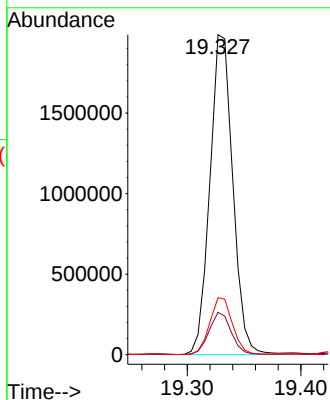
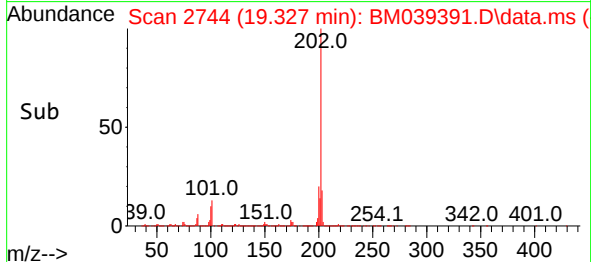
Instrument :
BNA_M
ClientSampleId :
MID-H4(ELEV-24)DL



Tgt Ion:202 Resp: 278401
Ion Ratio Lower Upper
202 100
101 13.2 0.0 32.5
203 17.8 0.0 37.5

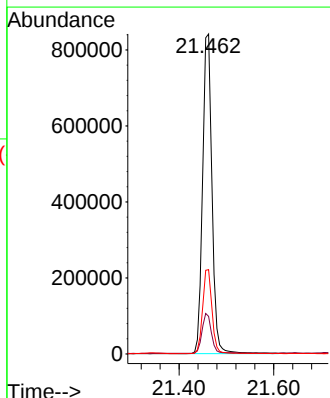
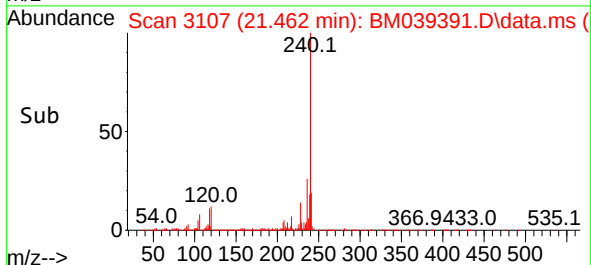
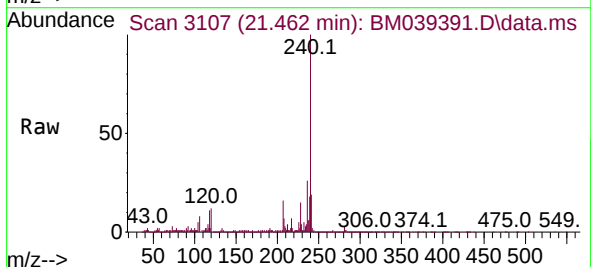
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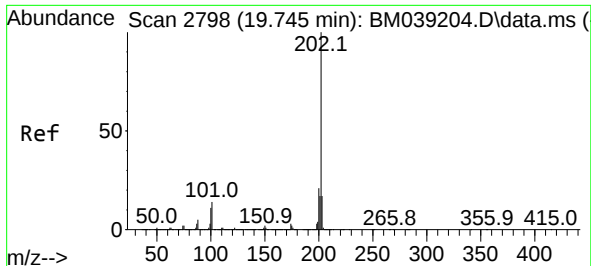
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.462 min Scan# 3107
Delta R.T. 0.000 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

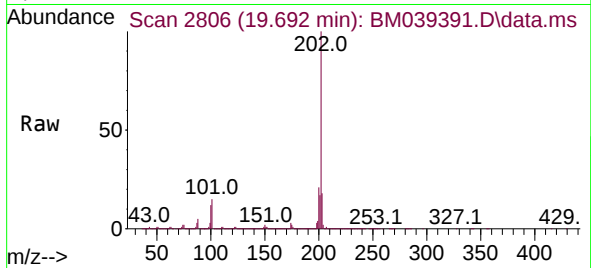
Tgt Ion:240 Resp: 1162251
Ion Ratio Lower Upper
240 100
120 11.8 10.2 15.2
236 26.4 20.9 31.3





#78
Pyrene
Concen: 31.871 ng
RT: 19.692 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

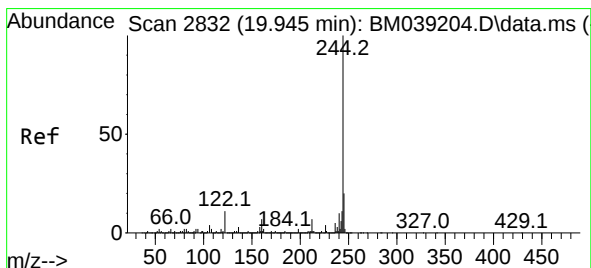
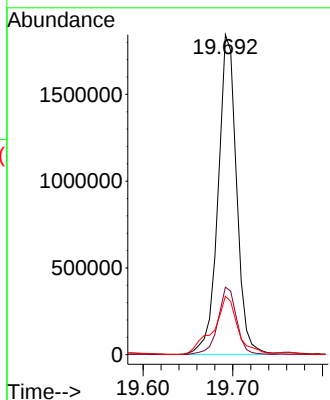
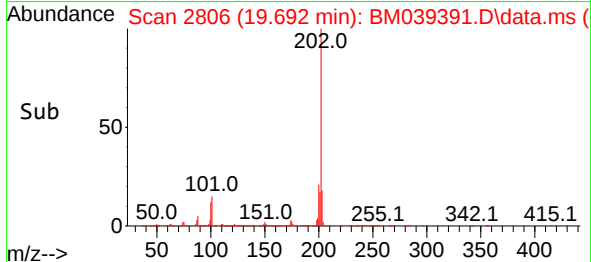
Instrument :
BNA_M
ClientSampleId :
MID-H4(ELEV-24)DL



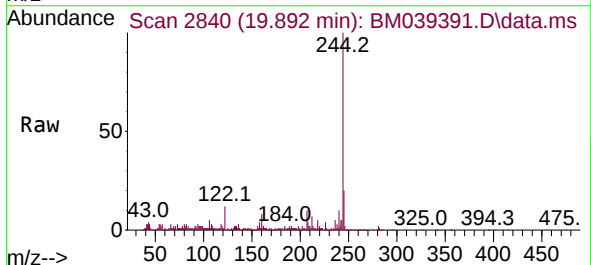
Tgt Ion:202 Resp: 263696
Ion Ratio Lower Upper
202 100
200 21.1 17.1 25.7
203 18.2 13.9 20.9

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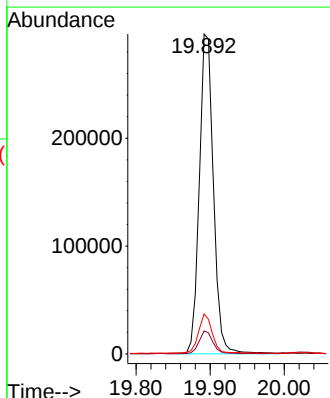
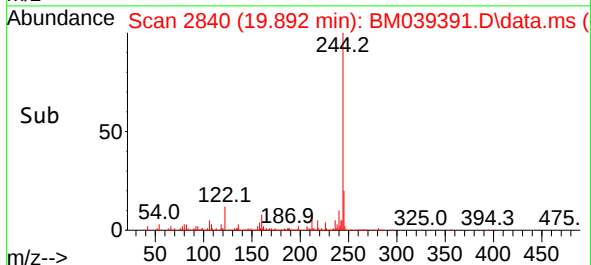
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023

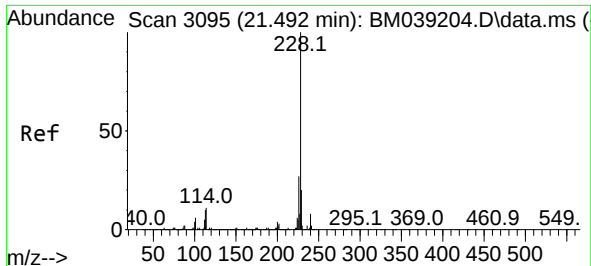


#79
Terphenyl-d14
Concen: 6.245 ng
RT: 19.892 min Scan# 2840
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09



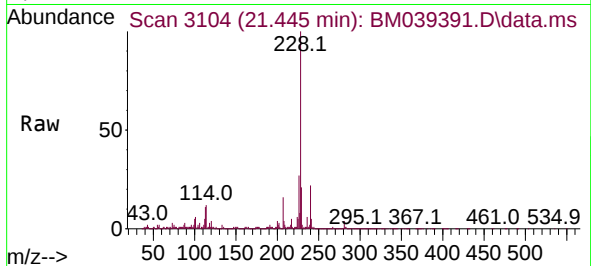
Tgt Ion:244 Resp: 392833
Ion Ratio Lower Upper
244 100
212 7.2 5.6 8.4
122 12.5 9.1 13.7





#81
Benzo(a)anthracene
Concen: 13.269 ng
RT: 21.445 min Scan# 3113
Delta R.T. 0.000 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

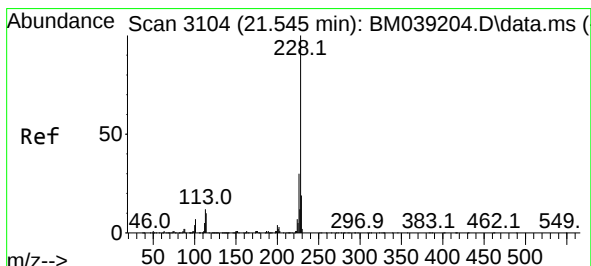
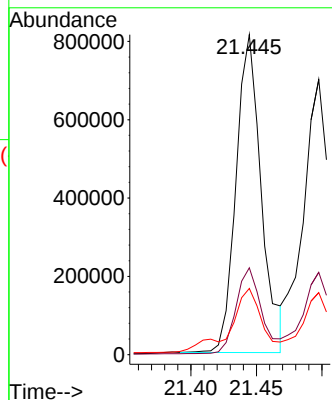
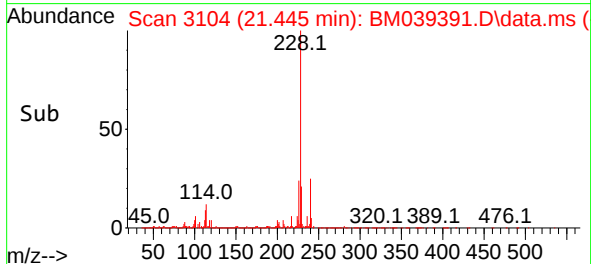
Instrument :
BNA_M
ClientSampleId :
MID-H4(ELEV-24)DL



Tgt Ion:228 Resp: 108762
Ion Ratio Lower Upper
228 100
226 27.2 21.9 32.9
229 20.7 15.8 23.6

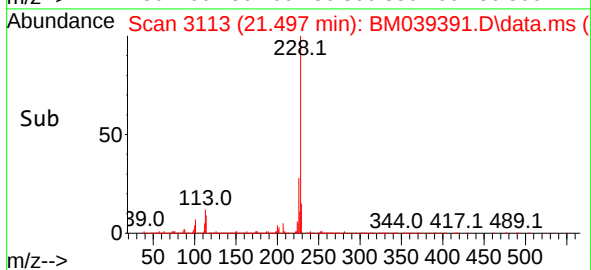
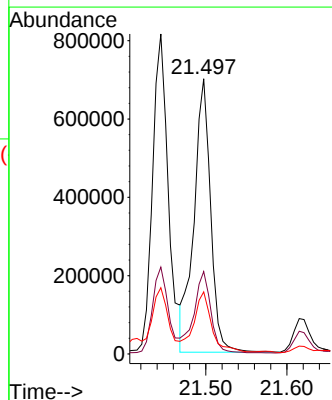
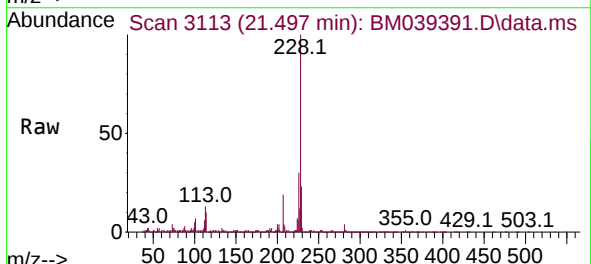
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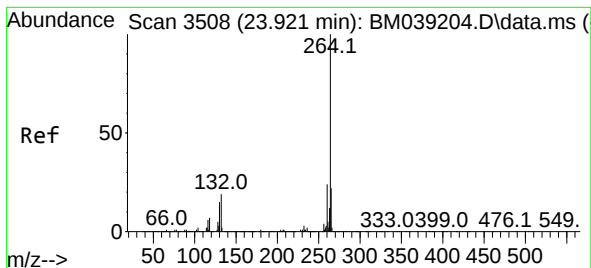
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#83
Chrysene
Concen: 12.657 ng
RT: 21.497 min Scan# 3113
Delta R.T. 0.000 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

Tgt Ion:228 Resp: 1001526
Ion Ratio Lower Upper
228 100
226 29.9 24.1 36.1
229 22.5 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.850 min Scan# 3508

Delta R.T. 0.006 min

Lab File: BM039391.D

Acq: 11 Apr 2023 13:09

Instrument :

BNA_M

ClientSampleId :

MID-H4(ELEV-24)DL

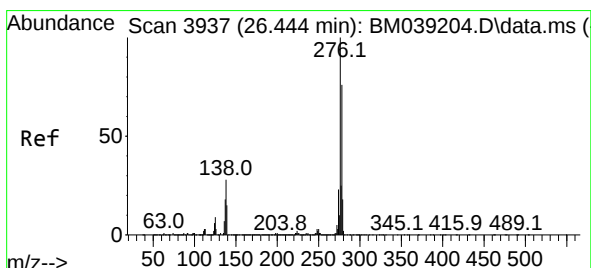
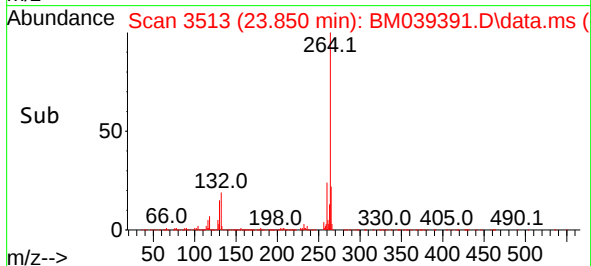
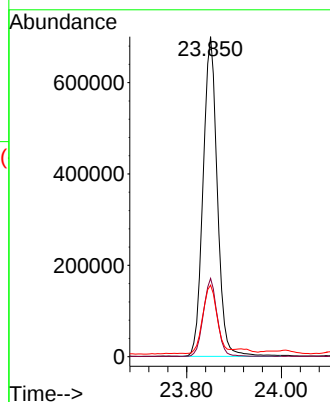
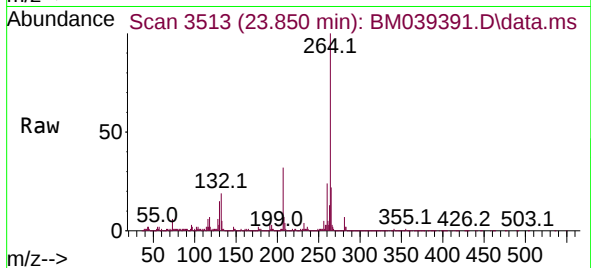
Tgt Ion:264 Resp: 1461392

Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.0	28.6
265	22.4	18.1	27.1

Manual Integrations

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Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.015 ng

RT: 26.321 min Scan# 3933

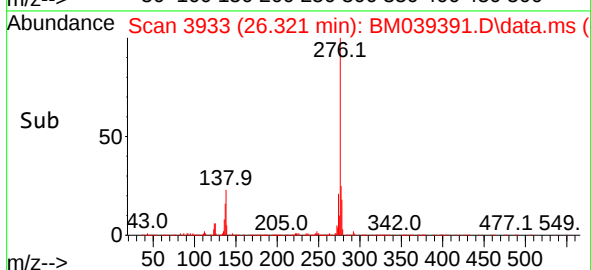
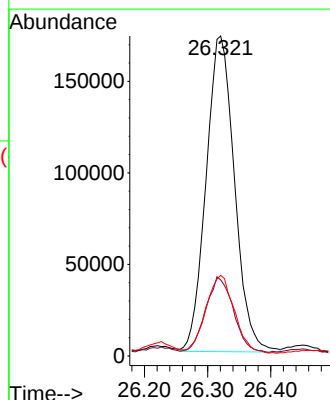
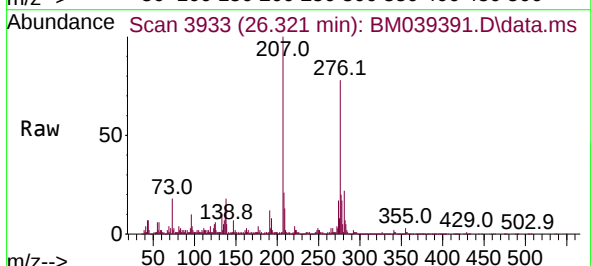
Delta R.T. -0.006 min

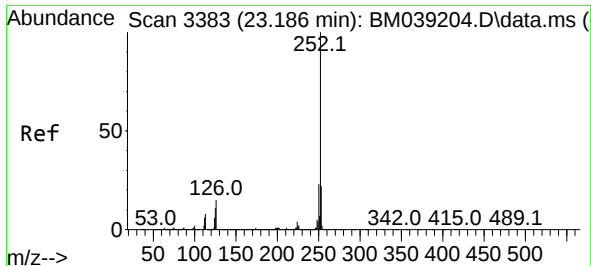
Lab File: BM039391.D

Acq: 11 Apr 2023 13:09

Tgt Ion:276 Resp: 539959

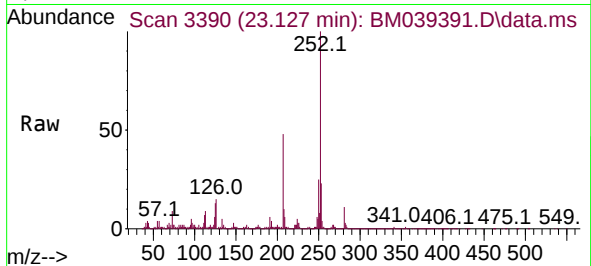
Ion	Ratio	Lower	Upper
276	100		
138	23.7	22.2	33.2
277	24.7	20.2	30.2





#88
Benzo(b)fluoranthene
Concen: 13.486 ng
RT: 23.127 min Scan# 31
Delta R.T. 0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

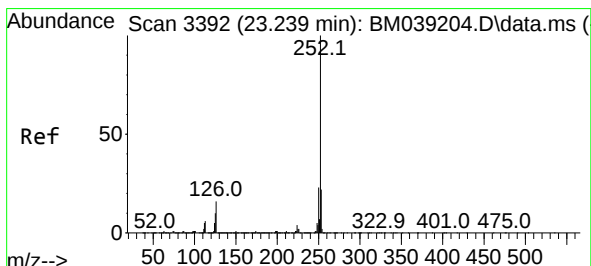
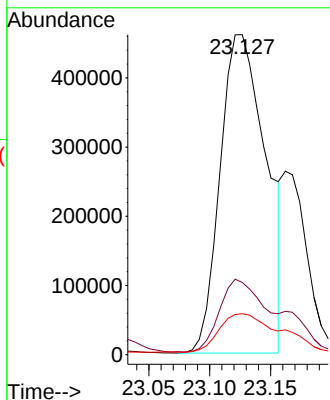
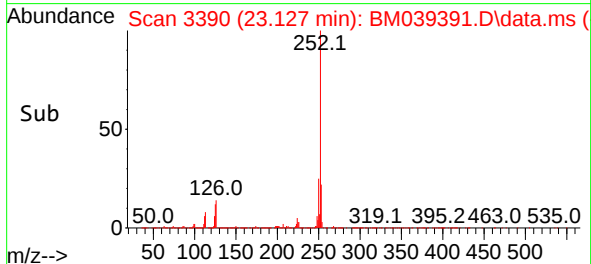
Instrument :
BNA_M
ClientSampleId :
MID-H4(ELEV-24)DL



Tgt Ion:252 Resp: 1205884
Ion Ratio Lower Upper
252 100
253 22.6 17.6 26.4
125 12.8 9.0 13.6

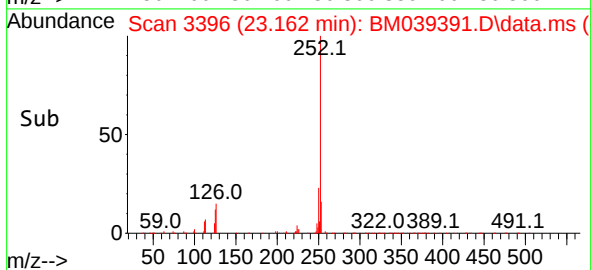
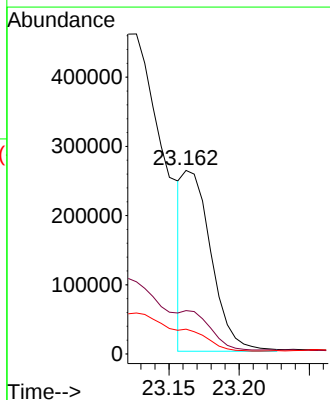
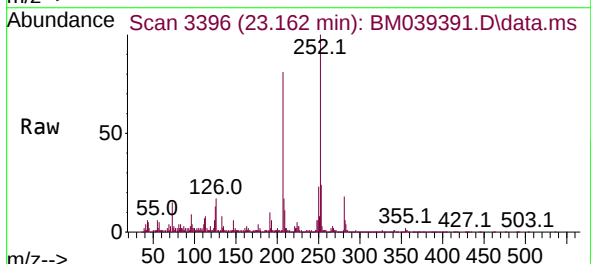
Manual Integrations
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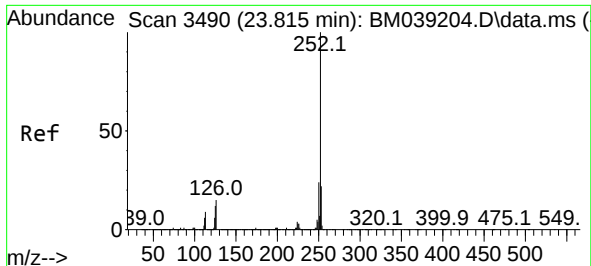
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#89
Benzo(k)fluoranthene
Concen: 4.035 ng m
RT: 23.162 min Scan# 3396
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

Tgt Ion:252 Resp: 367492
Ion Ratio Lower Upper
252 100
253 23.6 17.8 26.8
125 13.5 8.5 12.7#





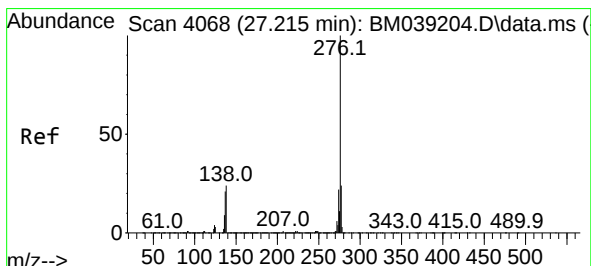
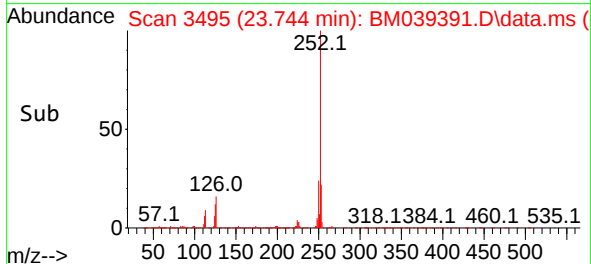
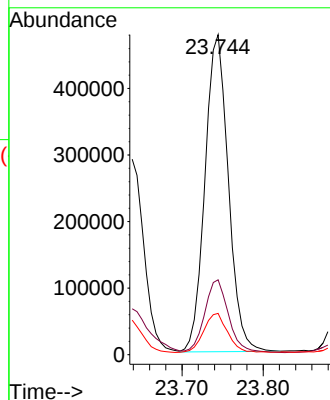
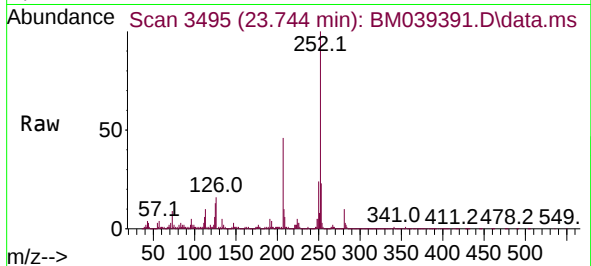
#90
Benzo(a)pyrene
Concen: 10.843 ng
RT: 23.744 min Scan# 3490
Delta R.T. 0.000 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

Instrument :
BNA_M
ClientSampleId :
MID-H4(ELEV-24)DL

Tgt Ion:252 Resp: 952492
Ion Ratio Lower Upper
252 100
253 23.4 17.6 26.4
125 12.9 9.8 14.6

Manual Integrations
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Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#92
Benzo(g,h,i)perylene
Concen: 6.114 ng
RT: 27.079 min Scan# 4062
Delta R.T. -0.006 min
Lab File: BM039391.D
Acq: 11 Apr 2023 13:09

Tgt Ion:276 Resp: 543663
Ion Ratio Lower Upper
276 100
277 24.6 19.1 28.7
138 25.2 19.5 29.3

