

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032223\
 Data File : BM039104.D
 Acq On : 22 Mar 2023 22:38
 Operator : CG/JU
 Sample : 01932-11
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CE-43-031423

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/23/2023
 Supervised By : Jagrut Upadhyay 03/23/2023

Quant Time: Mar 23 04:27:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 22 03:36:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.963	152	285333	20.000	ng	0.00
21) Naphthalene-d8	10.775	136	1103181	20.000	ng	0.00
39) Acenaphthene-d10	14.604	164	613460	20.000	ng	0.00
64) Phenanthrene-d10	17.351	188	1240131	20.000	ng	0.00
76) Chrysene-d12	21.527	240	1157327	20.000	ng	0.00
86) Perylene-d12	23.956	264	1342652	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1577257	83.983	ng	0.00
7) Phenol-d6	7.128	99	1986345	81.427	ng	0.00
23) Nitrobenzene-d5	9.134	82	1145650	51.012	ng	0.00
42) 2,4,6-Tribromophenol	16.092	330	560350	78.959	ng	0.00
45) 2-Fluorobiphenyl	13.227	172	2276528	48.309	ng	0.00
79) Terphenyl-d14	19.968	244	3044469	48.096	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.392	178	565646	7.772	ng	100
75) Fluoranthene	19.404	202	1916532	24.939	ng	98
78) Pyrene	19.768	202	2136786	24.582	ng	99
81) Benzo(a)anthracene	21.509	228	1109800	13.316	ng	98
83) Chrysene	21.562	228	1006215	12.413	ng	98
87) Indeno(1,2,3-cd)pyrene	26.480	276	842781	8.249	ng	97
88) Benzo(b)fluoranthene	23.215	252	1596231	18.609	ng	93
89) Benzo(k)fluoranthene	23.262	252	469217m	5.256	ng	
90) Benzo(a)pyrene	23.850	252	1243615	15.064	ng	98
91) Dibenzo(a,h)anthracene	26.497	278	208285	2.407	ng #	84
92) Benzo(g,h,i)perylene	27.268	276	891824	10.535	ng	99

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

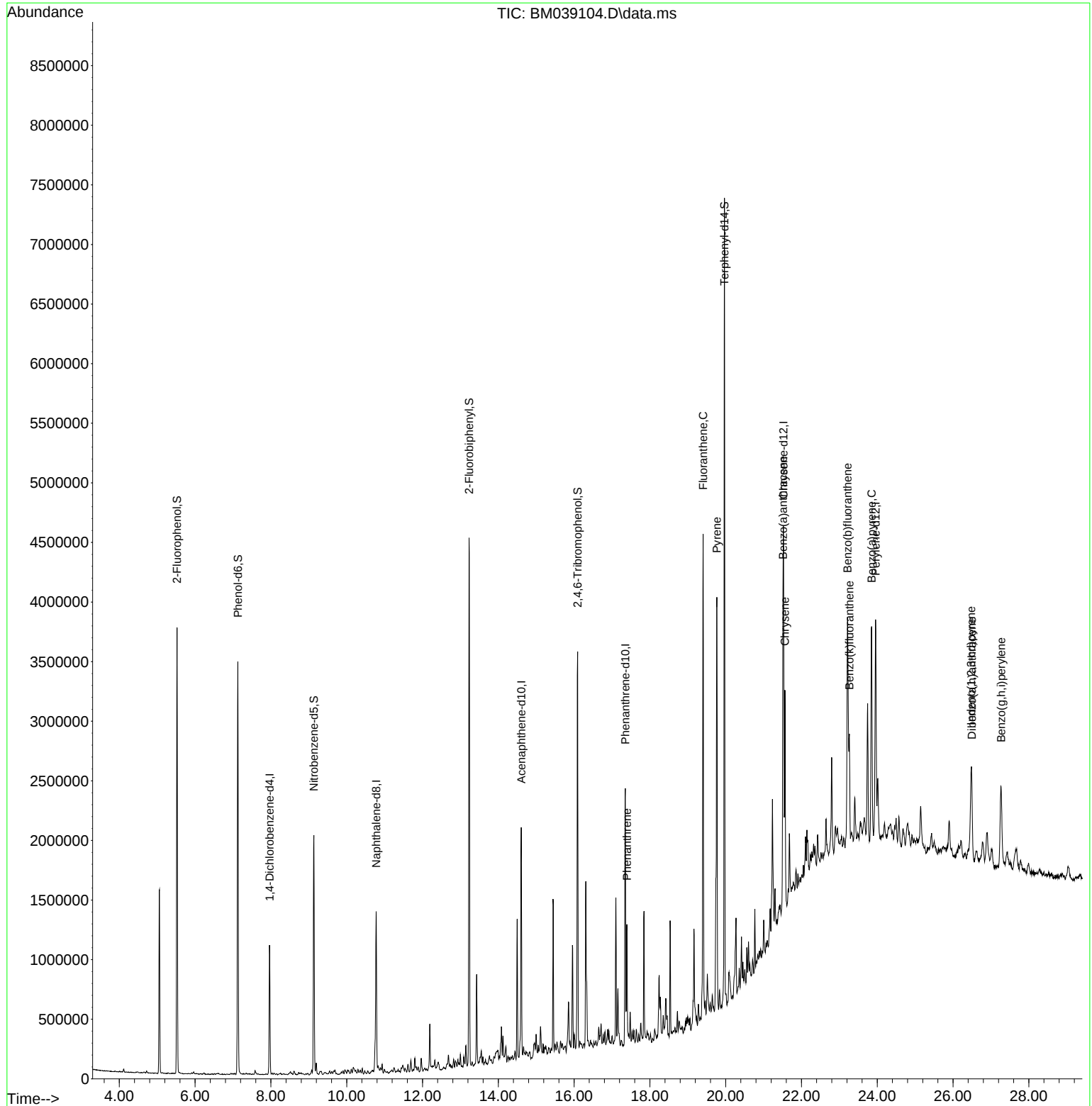
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032223\
Data File : BM039104.D
Acq On : 22 Mar 2023 22:38
Operator : CG/JU
Sample : 01932-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

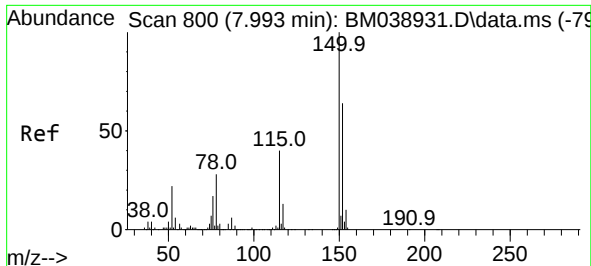
Instrument :
BNA_M
ClientSampleId :
CE-43-031423

Quant Time: Mar 23 04:27:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 22 03:36:20 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

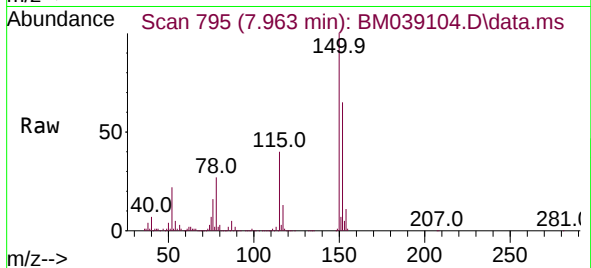
Reviewed By : Christian Giraldo 03/23/2023
Supervised By : Jagrut Upadhyay 03/23/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.963 min Scan# 79
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

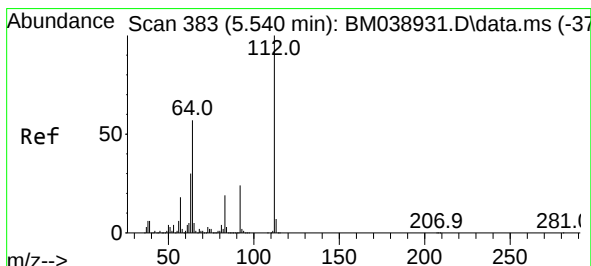
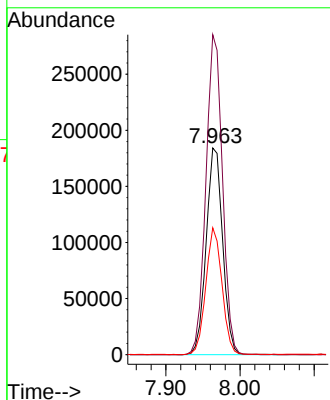
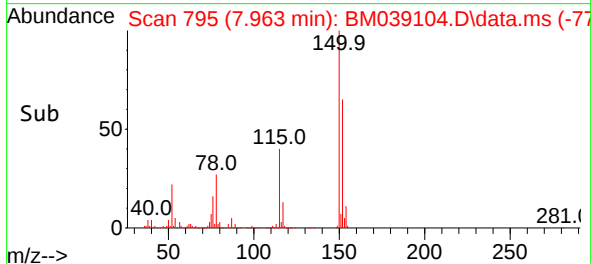
Instrument :
BNA_M
ClientSampleId :
CE-43-031423



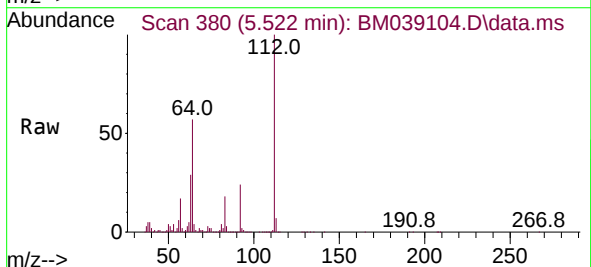
Tgt Ion:152 Resp: 285333
Ion Ratio Lower Upper
152 100
150 154.8 125.1 187.7
115 61.4 49.6 74.4

Manual Integrations
APPROVED

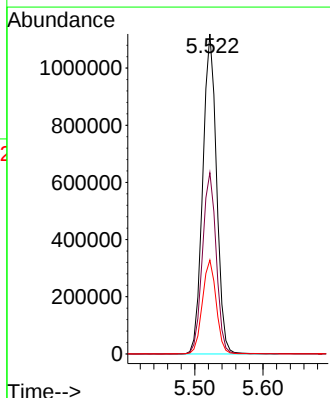
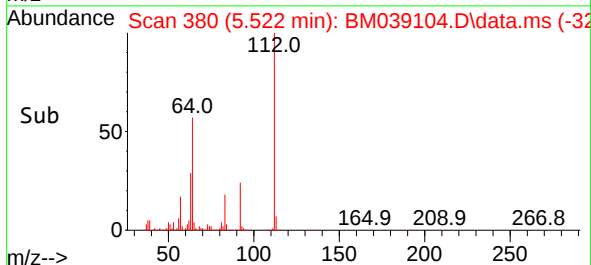
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023

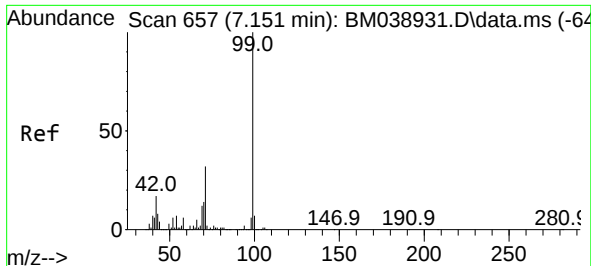


#5
2-Fluorophenol
Concen: 83.983 ng
RT: 5.522 min Scan# 380
Delta R.T. 0.000 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38



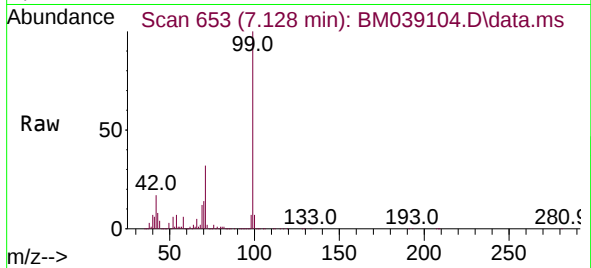
Tgt Ion:112 Resp: 1577257
Ion Ratio Lower Upper
112 100
64 56.6 45.9 68.9
63 29.3 23.8 35.8





#7
Phenol-d6
Concen: 81.427 ng
RT: 7.128 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

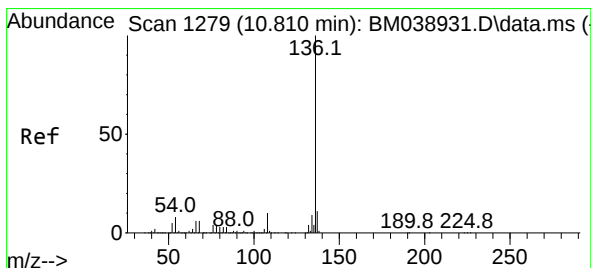
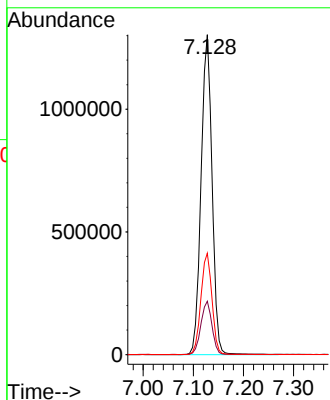
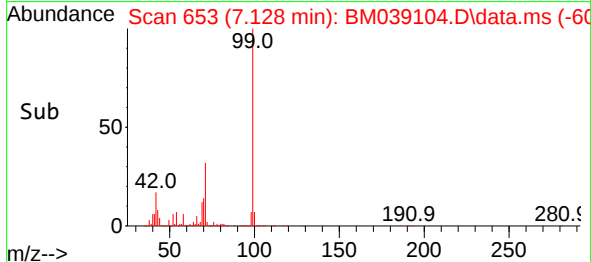
Instrument :
BNA_M
ClientSampleId :
CE-43-031423



Tgt Ion: 99 Resp: 1986345
Ion Ratio Lower Upper
99 100
42 16.7 13.5 20.3
71 31.7 25.6 38.4

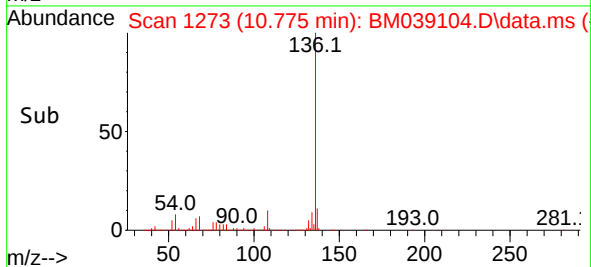
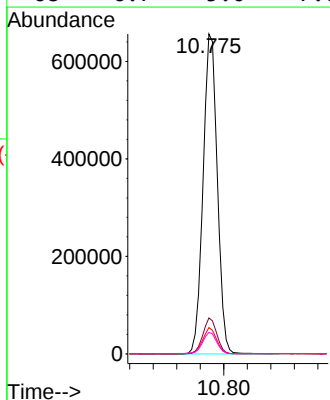
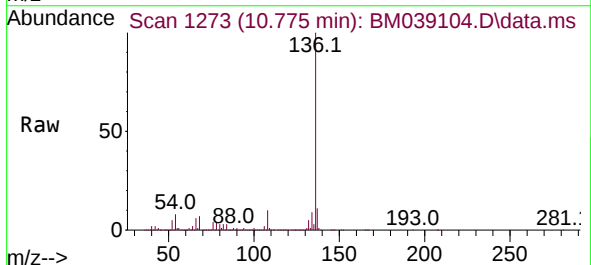
Manual Integrations
APPROVED

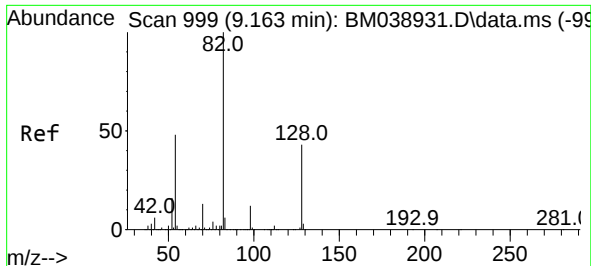
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.775 min Scan# 1273
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

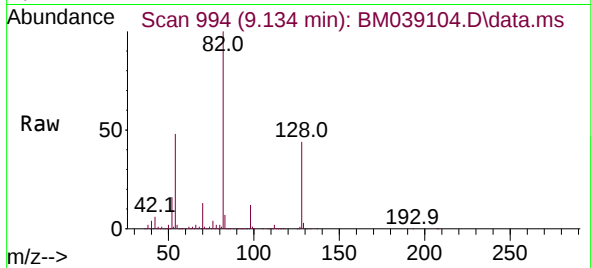
Tgt Ion:136 Resp: 1103181
Ion Ratio Lower Upper
136 100
137 11.2 8.7 13.1
54 8.2 6.3 9.5
68 6.7 5.0 7.6





#23
Nitrobenzene-d5
Concen: 51.012 ng
RT: 9.134 min Scan# 999
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

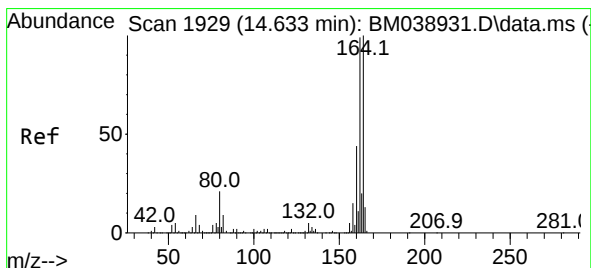
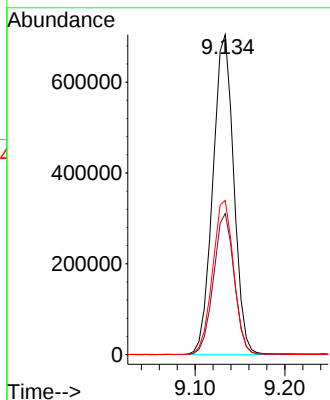
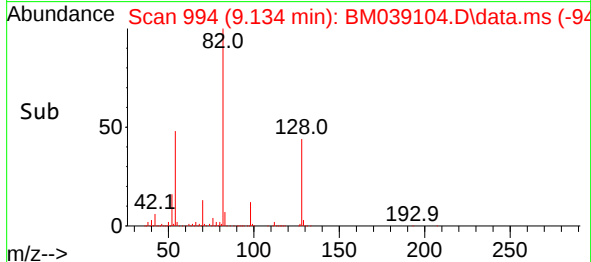
Instrument :
BNA_M
ClientSampleId :
CE-43-031423



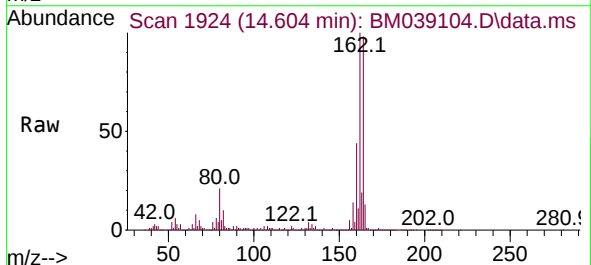
Tgt Ion: 82 Resp: 1145650
Ion Ratio Lower Upper
82 100
128 44.1 34.4 51.6
54 48.2 38.8 58.2

Manual Integrations
APPROVED

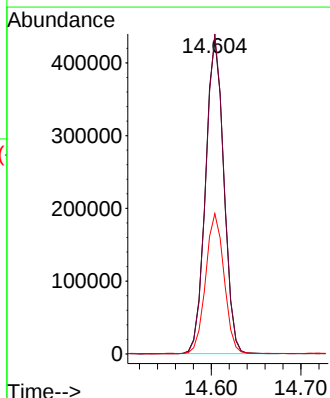
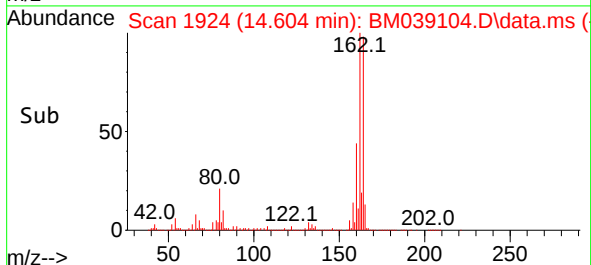
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023

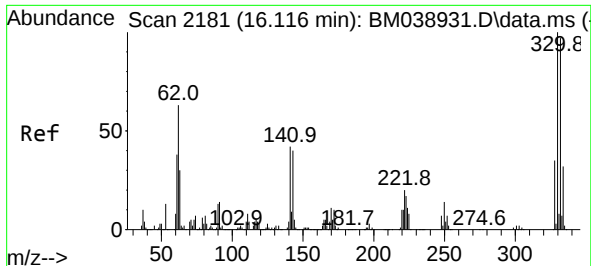


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.604 min Scan# 1924
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38



Tgt Ion:164 Resp: 613460
Ion Ratio Lower Upper
164 100
162 101.6 79.2 118.8
160 44.5 35.5 53.3





#42
2,4,6-Tribromophenol
Concen: 78.959 ng
RT: 16.092 min Scan# 2181
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

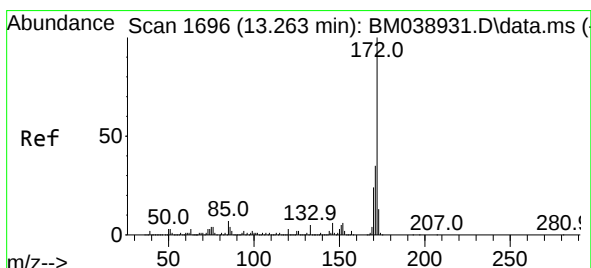
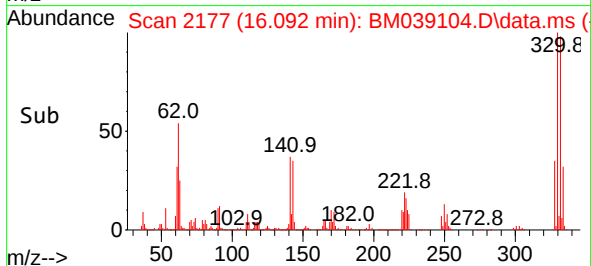
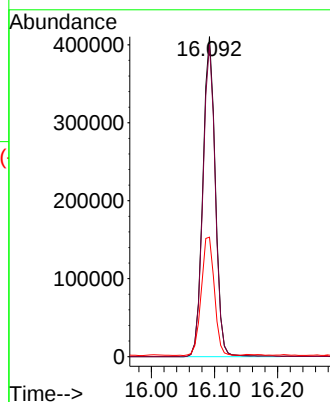
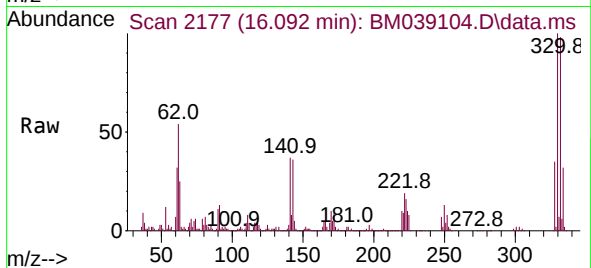
CE-43-031423

Tgt Ion:330 Resp: 560350
Ion Ratio Lower Upper
330 100
332 97.0 77.4 116.0
141 38.9 32.2 48.4

Manual Integrations

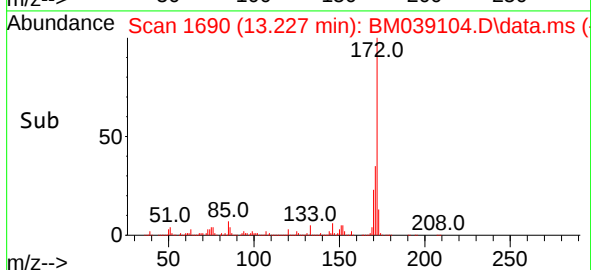
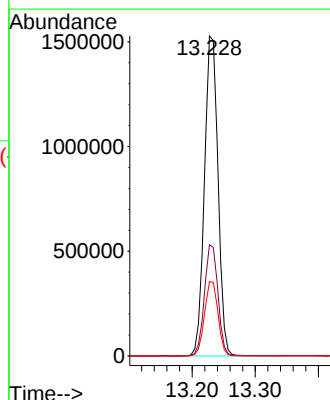
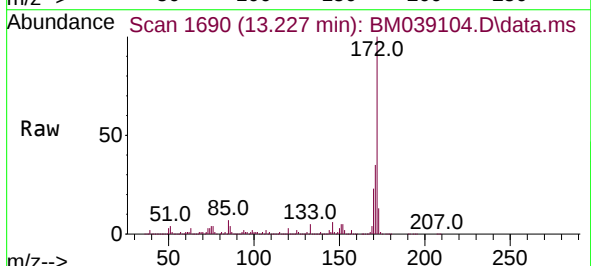
APPROVED

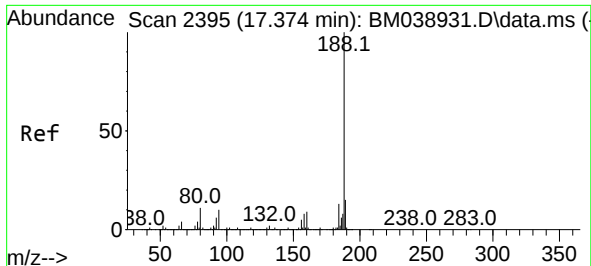
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#45
2-Fluorobiphenyl
Concen: 48.309 ng
RT: 13.227 min Scan# 1690
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

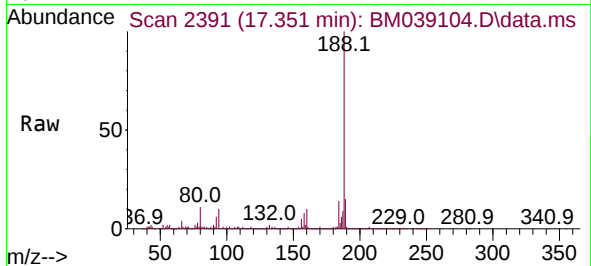
Tgt Ion:172 Resp: 2276528
Ion Ratio Lower Upper
172 100
171 34.7 28.2 42.2
170 23.2 19.1 28.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.351 min Scan# 2391
Delta R.T. 0.000 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

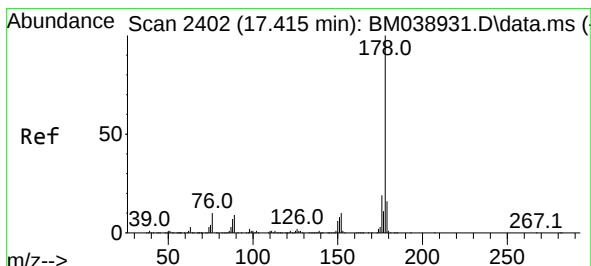
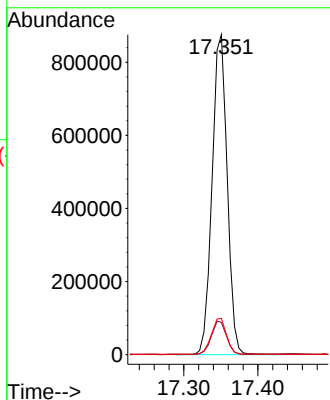
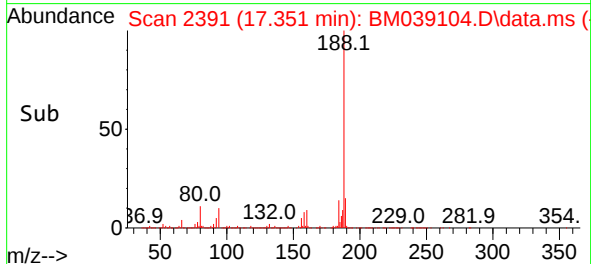
Instrument :
BNA_M
ClientSampleId :
CE-43-031423



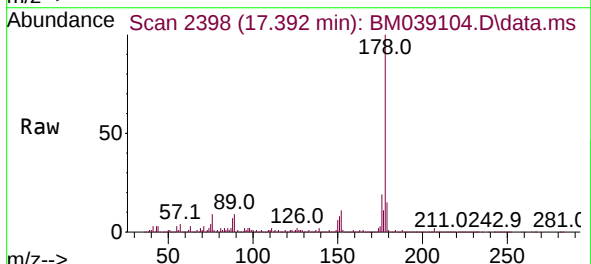
Tgt Ion:188 Resp: 124013
Ion Ratio Lower Upper
188 100
94 10.1 7.9 11.9
80 11.3 8.5 12.7

Manual Integrations
APPROVED

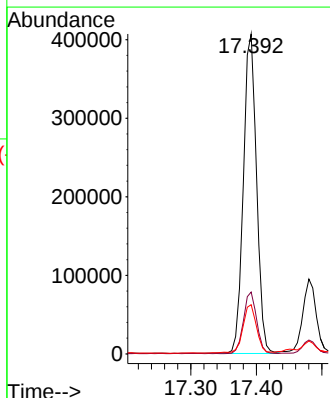
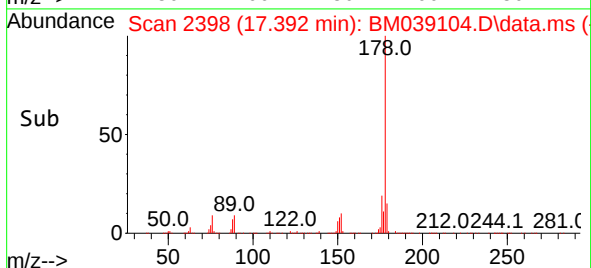
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023

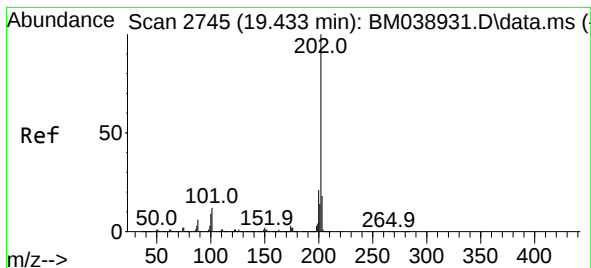


#71
Phenanthrene
Concen: 7.772 ng
RT: 17.392 min Scan# 2398
Delta R.T. 0.000 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38



Tgt Ion:178 Resp: 565646
Ion Ratio Lower Upper
178 100
176 19.3 15.6 23.4
179 15.4 12.5 18.7





#75

Fluoranthene

Concen: 24.939 ng

RT: 19.404 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

CE-43-031423

Tgt Ion:202 Resp: 1916532

Ion Ratio Lower Upper

202 100

101 12.8 0.0 31.7

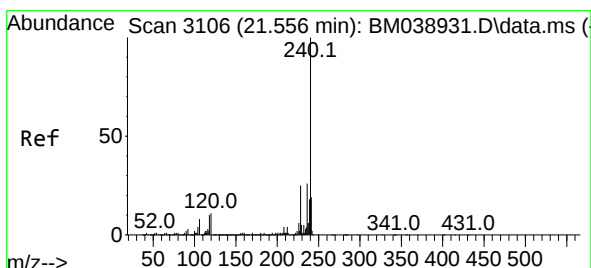
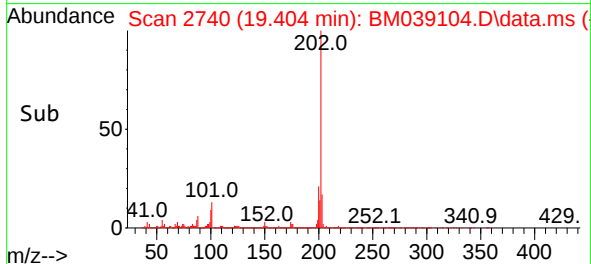
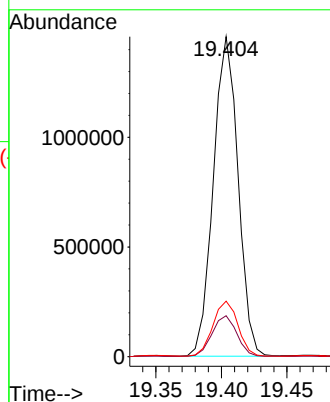
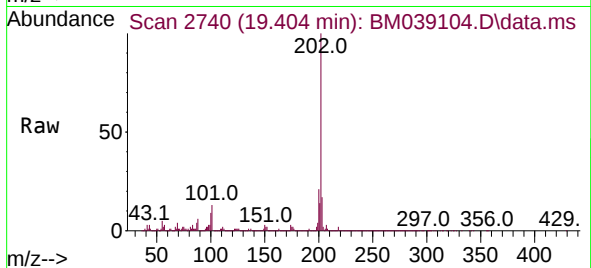
203 17.3 0.0 37.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/23/2023

Supervised By :Jagrut Upadhyay 03/23/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.527 min Scan# 3101

Delta R.T. -0.006 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

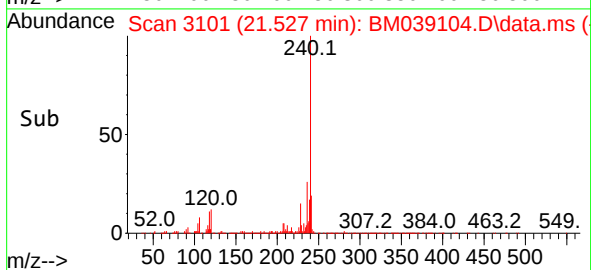
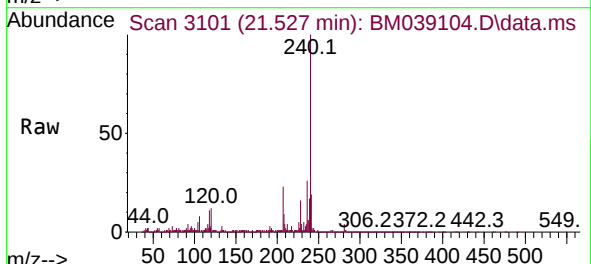
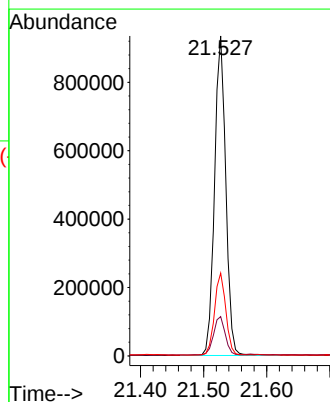
Tgt Ion:240 Resp: 1157327

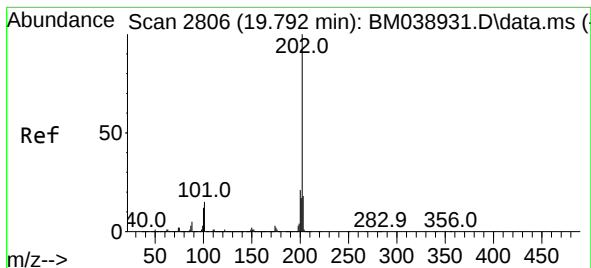
Ion Ratio Lower Upper

240 100

120 12.3 9.2 13.8

236 25.9 20.8 31.2





#78

Pyrene

Concen: 24.582 ng

RT: 19.768 min Scan# 2806

Delta R.T. 0.000 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

CE-43-031423

Tgt Ion:202 Resp: 2136786

Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

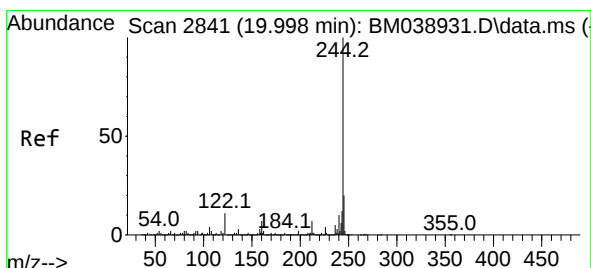
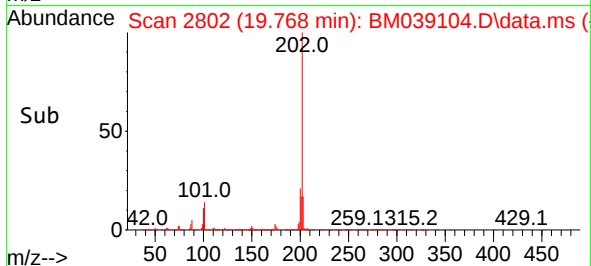
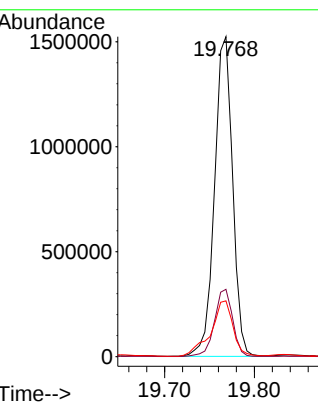
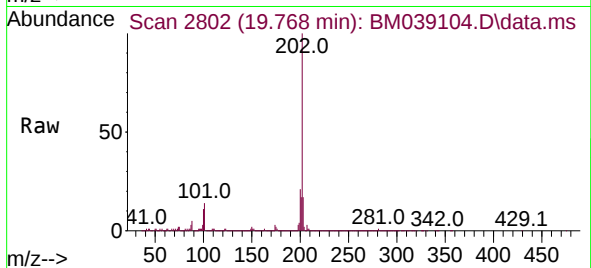
203 17.4 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/23/2023

Supervised By :Jagrut Upadhyay 03/23/2023



#79

Terphenyl-d14

Concen: 48.096 ng

RT: 19.968 min Scan# 2836

Delta R.T. 0.000 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

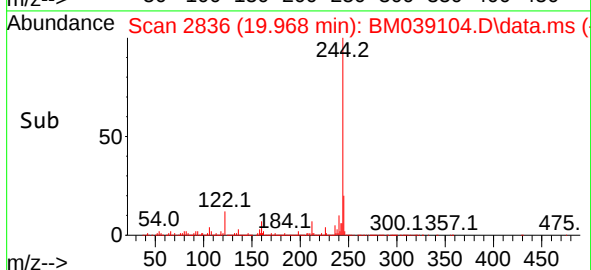
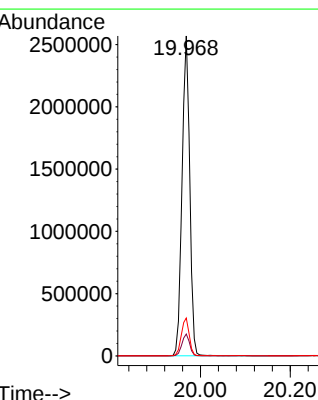
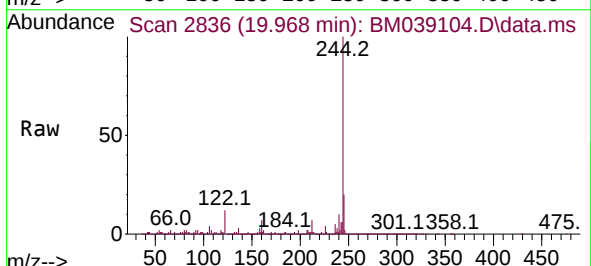
Tgt Ion:244 Resp: 3044469

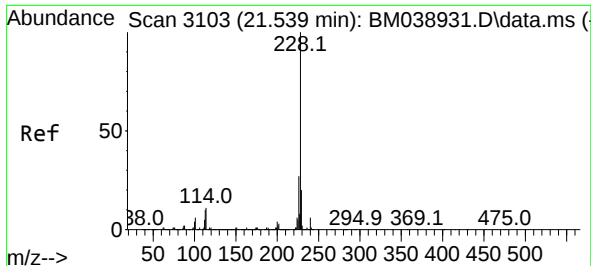
Ion Ratio Lower Upper

244 100

212 6.8 5.5 8.3

122 11.8 9.0 13.4





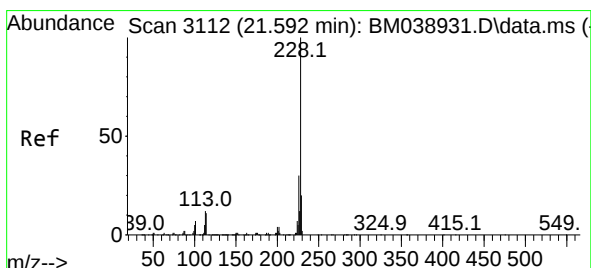
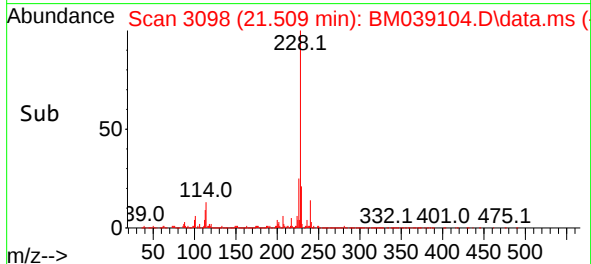
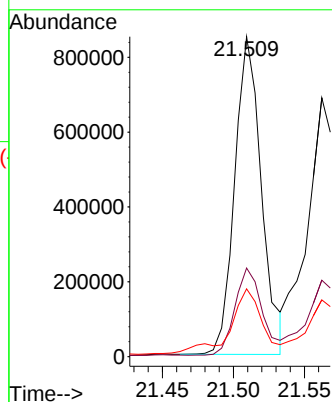
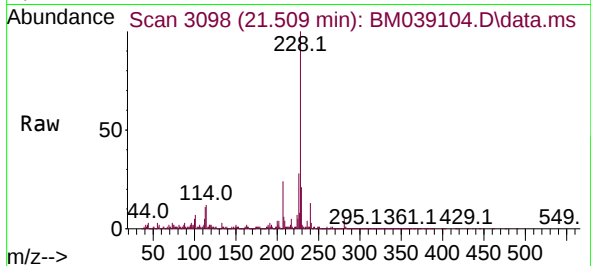
#81
Benzo(a)anthracene
Concen: 13.316 ng
RT: 21.509 min Scan# 30
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

Instrument :
BNA_M
ClientSampleId :
CE-43-031423

Tgt Ion:228 Resp: 1109800
Ion Ratio Lower Upper
228 100
226 27.7 21.4 32.2
229 21.2 15.7 23.5

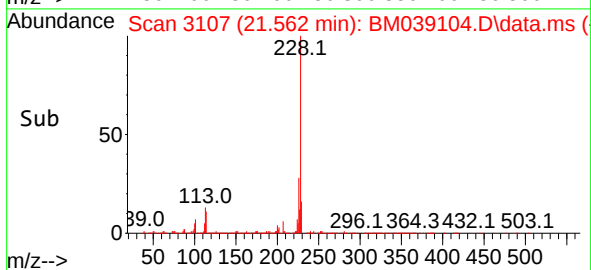
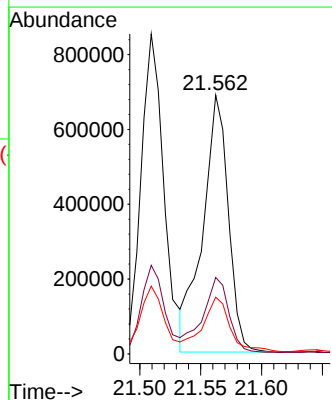
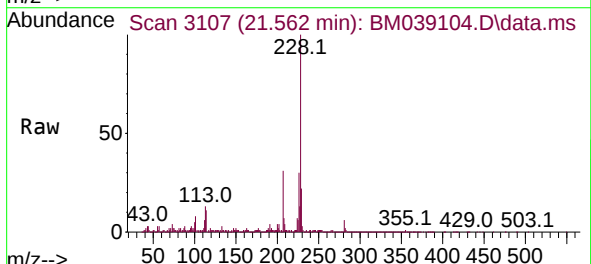
Manual Integrations
APPROVED

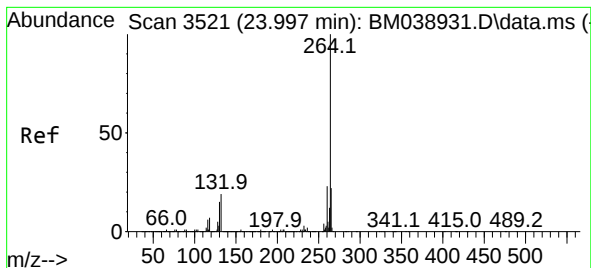
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#83
Chrysene
Concen: 12.413 ng
RT: 21.562 min Scan# 3107
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

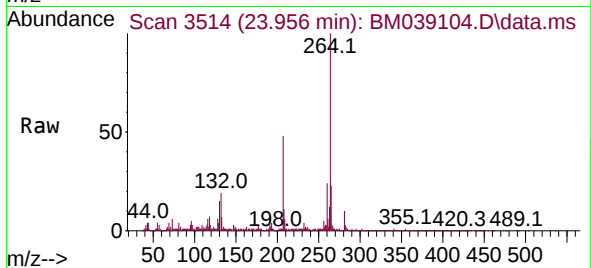
Tgt Ion:228 Resp: 1006215
Ion Ratio Lower Upper
228 100
226 29.5 24.0 36.0
229 21.9 16.0 24.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 23.956 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

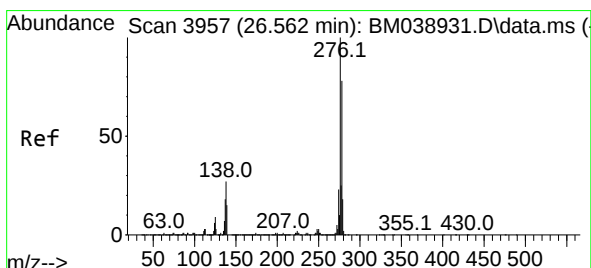
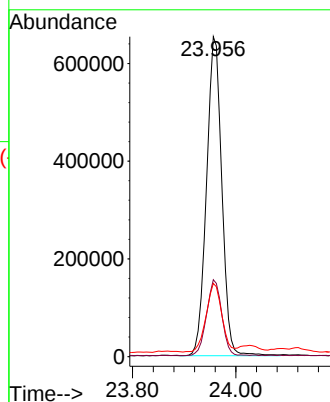
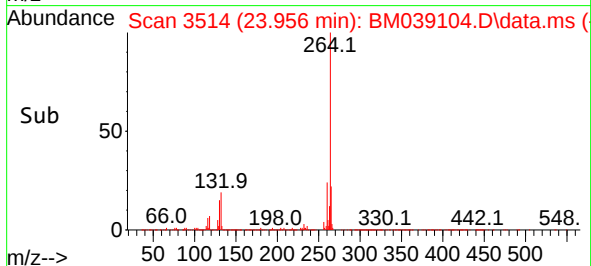
Instrument :
BNA_M
ClientSampleId :
CE-43-031423



Tgt Ion:264 Resp: 1342652
Ion Ratio Lower Upper
264 100
260 24.0 18.7 28.1
265 22.9 17.9 26.9

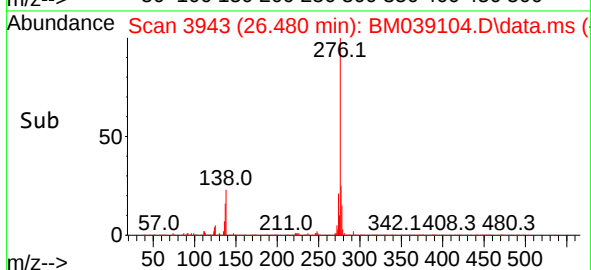
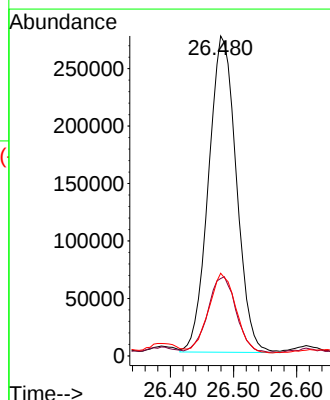
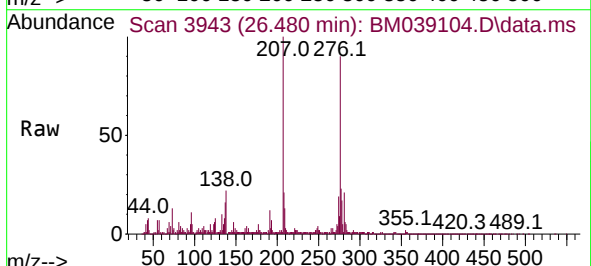
Manual Integrations
APPROVED

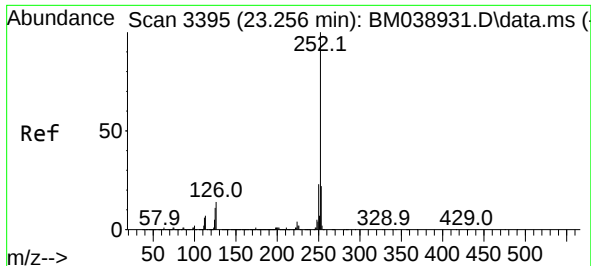
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 8.249 ng
RT: 26.480 min Scan# 3943
Delta R.T. -0.018 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

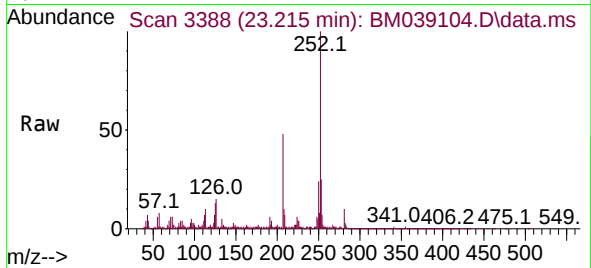
Tgt Ion:276 Resp: 842781
Ion Ratio Lower Upper
276 100
138 24.6 22.1 33.1
277 24.8 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 18.609 ng
RT: 23.215 min Scan# 3395
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38

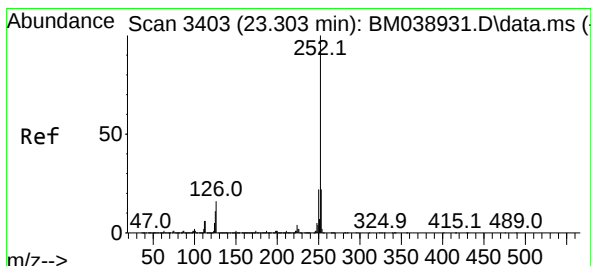
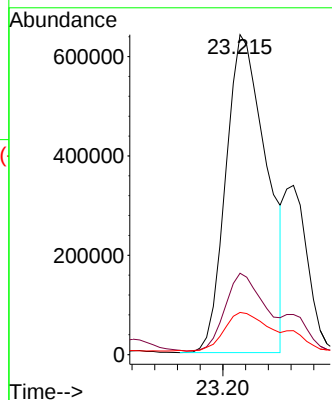
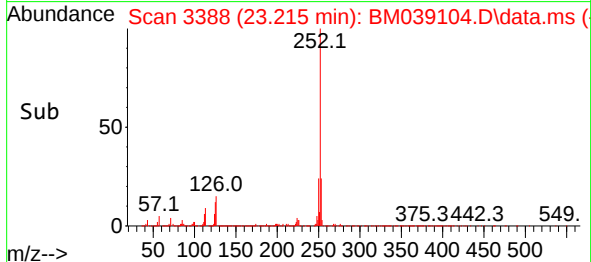
Instrument :
BNA_M
ClientSampleId :
CE-43-031423



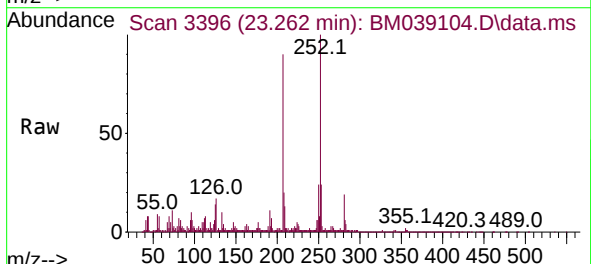
Tgt Ion:252 Resp: 1596231
Ion Ratio Lower Upper
252 100
253 25.4 17.6 26.4
125 13.2 8.8 13.2

Manual Integrations
APPROVED

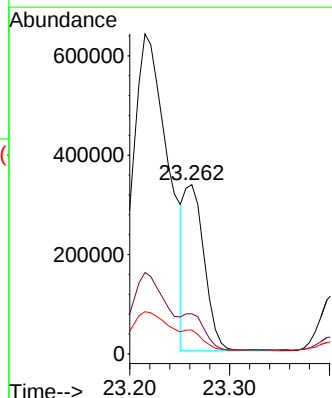
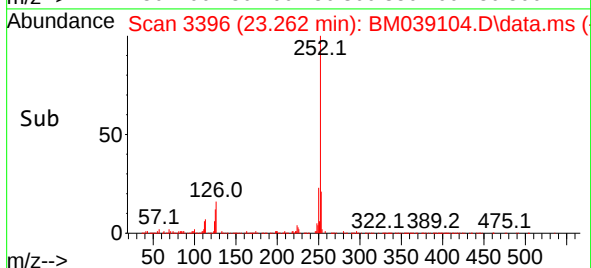
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023

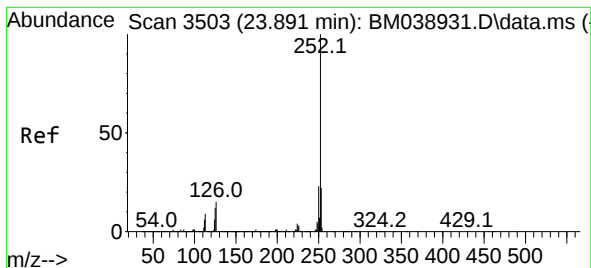


#89
Benzo(k)fluoranthene
Concen: 5.256 ng m
RT: 23.262 min Scan# 3396
Delta R.T. -0.006 min
Lab File: BM039104.D
Acq: 22 Mar 2023 22:38



Tgt Ion:252 Resp: 469217
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 14.2 8.9 13.3#





#90

Benzo(a)pyrene

Concen: 15.064 ng

RT: 23.850 min Scan# 34

Delta R.T. -0.006 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

Instrument :

BNA_M

ClientSampleId :

CE-43-031423

Tgt Ion:252 Resp: 1243615

Ion Ratio Lower Upper

252 100

253 23.3 17.6 26.4

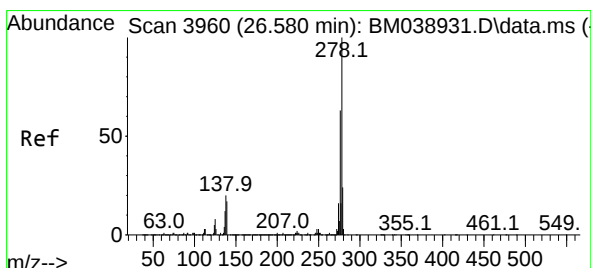
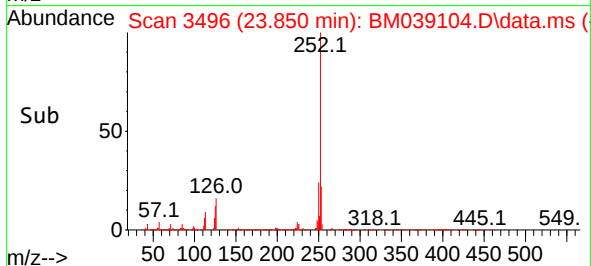
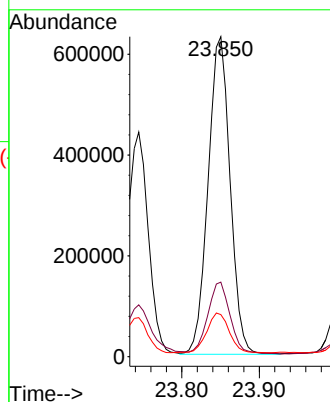
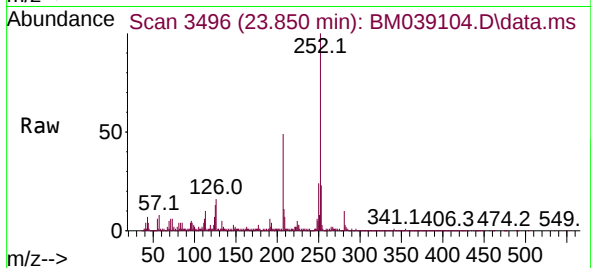
125 13.1 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/23/2023

Supervised By :Jagrut Upadhyay 03/23/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.407 ng

RT: 26.497 min Scan# 3946

Delta R.T. -0.012 min

Lab File: BM039104.D

Acq: 22 Mar 2023 22:38

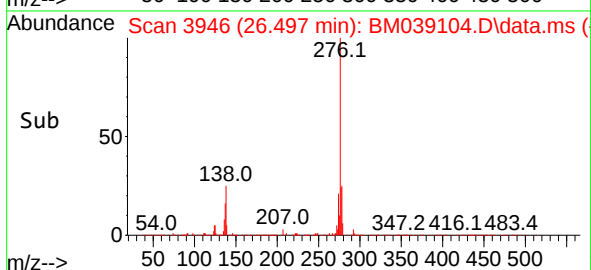
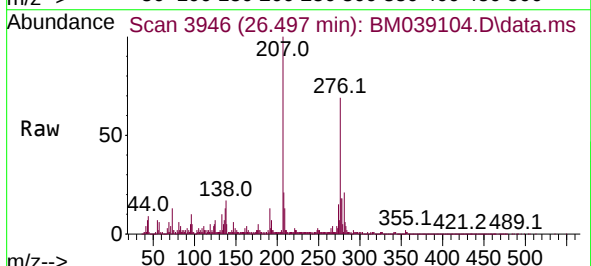
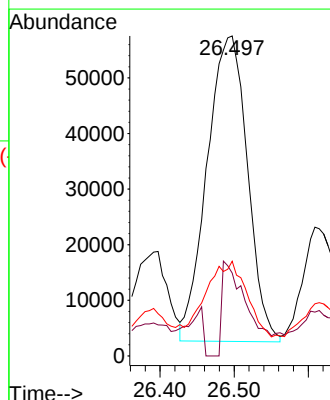
Tgt Ion:278 Resp: 208285

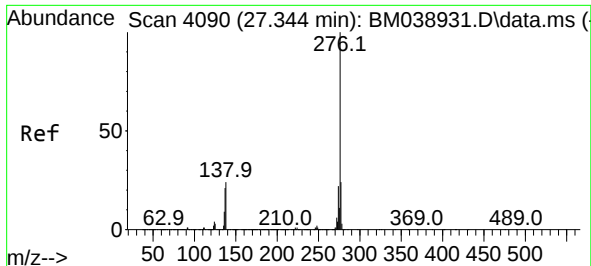
Ion Ratio Lower Upper

278 100

139 25.9 13.7 20.5#

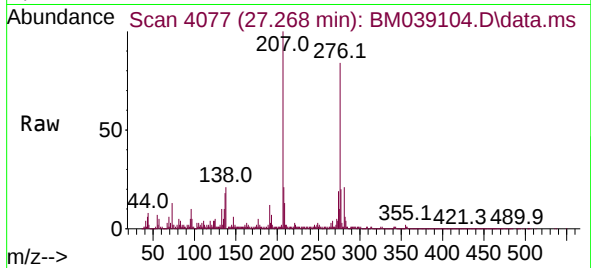
279 29.6 18.9 28.3#





#92
 Benzo(g,h,i)perylene
 Concen: 10.535 ng
 RT: 27.268 min Scan# 40
 Delta R.T. -0.006 min
 Lab File: BM039104.D
 Acq: 22 Mar 2023 22:38

Instrument :
 BNA_M
 ClientSampleId :
 CE-43-031423



Tgt Ion: 276 Resp: 891824
 Ion Ratio Lower Upper
 276 100
 277 24.4 19.3 28.9
 138 25.0 19.0 28.6

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/23/2023
 Supervised By : Jagrut Upadhyay 03/23/2023

