

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042123\
 Data File : BM039572.D
 Acq On : 22 Apr 2023 03:43
 Operator : CG/JU
 Sample : 02446-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OR-03-042023

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/24/2023
 Supervised By : Jagrut Upadhyay 04/24/2023

Quant Time: Apr 22 04:59:25 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM041723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 21 12:46:01 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	208332	20.000	ng	0.00
21) Naphthalene-d8	10.636	136	802990	20.000	ng	0.00
39) Acenaphthene-d10	14.483	164	451680	20.000	ng	0.00
64) Phenanthrene-d10	17.236	188	919863	20.000	ng	0.00
76) Chrysene-d12	21.430	240	764817	20.000	ng	0.00
86) Perylene-d12	23.806	264	861456	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.401	112	304569	23.886	ng	0.01
7) Phenol-d6	7.019	99	371891	19.845	ng	0.01
23) Nitrobenzene-d5	8.995	82	213901	13.045	ng	0.00
42) 2,4,6-Tribromophenol	15.983	330	124413	21.226	ng	0.00
45) 2-Fluorobiphenyl	13.101	172	517709	15.859	ng	0.00
79) Terphenyl-d14	19.865	244	751694	17.731	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.283	178	359019	7.198	ng	99
72) Anthracene	17.371	178	151652	2.964	ng	98
75) Fluoranthene	19.300	202	998566	16.501	ng	99
78) Pyrene	19.665	202	930334	16.541	ng	99
81) Benzo(a)anthracene	21.418	228	448343	8.255	ng	96
83) Chrysene	21.471	228	439226m	8.343	ng	
87) Indeno(1,2,3-cd)pyrene	26.265	276	321341	5.076	ng	# 93
88) Benzo(b)fluoranthene	23.083	252	668299m	12.724	ng	
89) Benzo(k)fluoranthene	23.124	252	193727m	3.528	ng	
90) Benzo(a)pyrene	23.700	252	476009	9.119	ng	# 90
92) Benzo(g,h,i)perylene	27.023	276	313469	6.011	ng	95

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

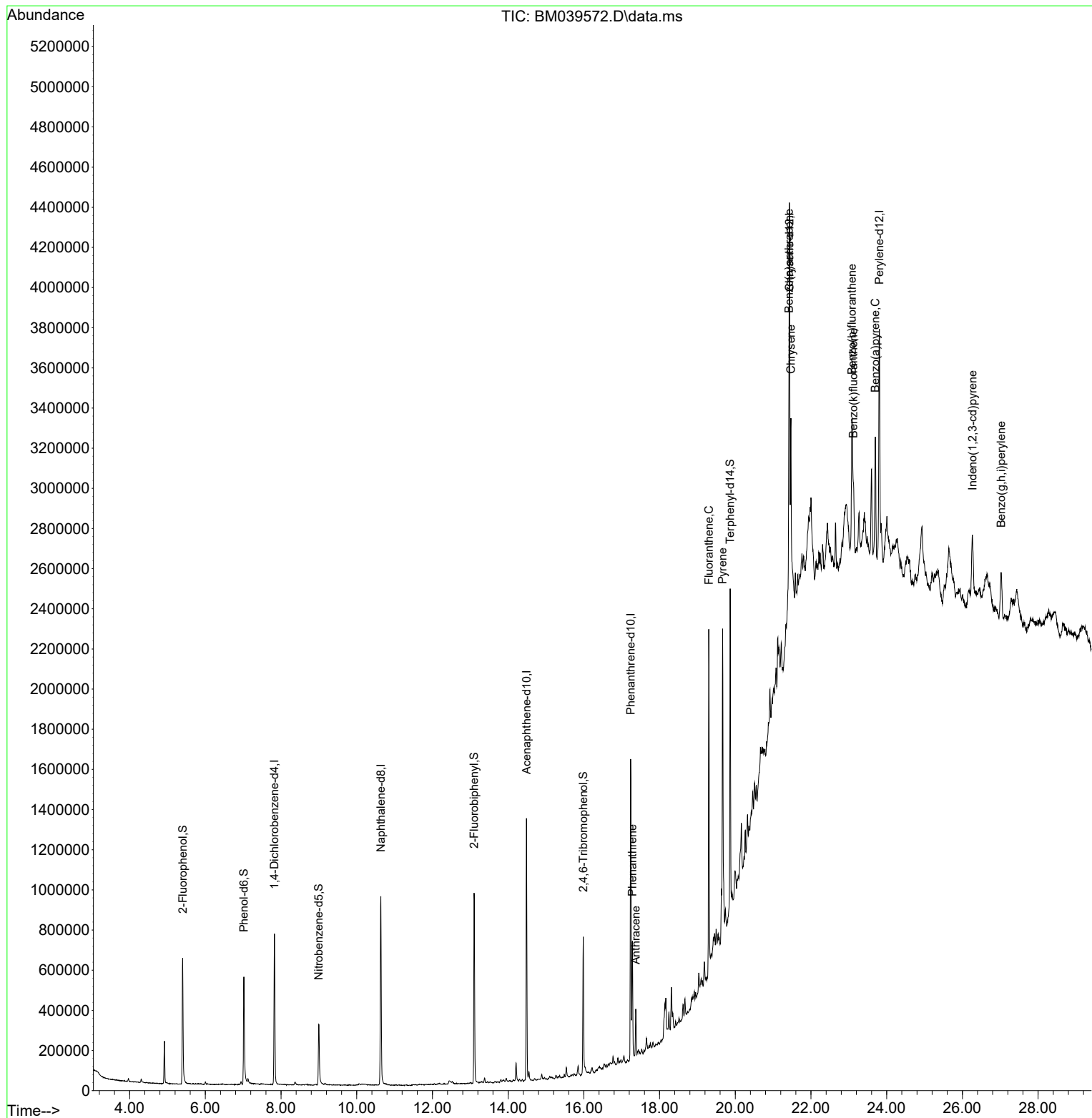
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042123\
Data File : BM039572.D
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Operator : CG/JU
Sample : 02446-01 5X
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ALS Vial : 20 Sample Multiplier: 1

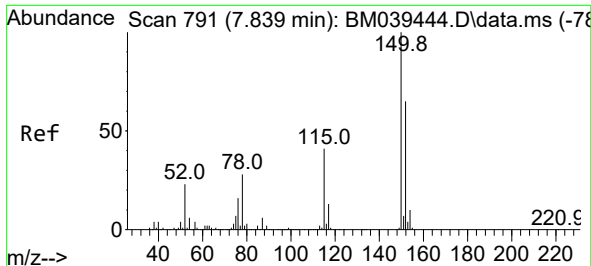
Instrument :
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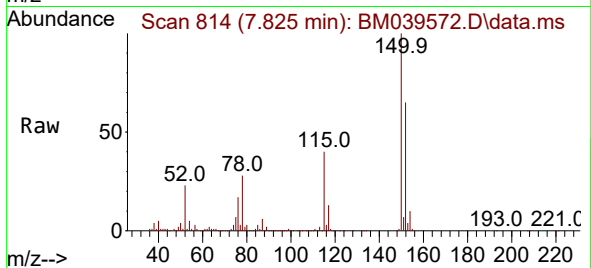
Reviewed By : Christian Giraldo 04/24/2023
Supervised By : Jagrut Upadhyay 04/24/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.825 min Scan# 81
Delta R.T. 0.006 min
Lab File: BM039572.D
Acq: 22 Apr 2023 03:43

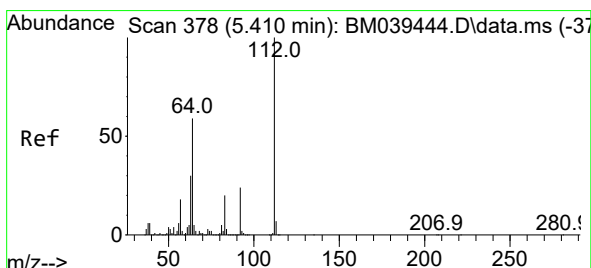
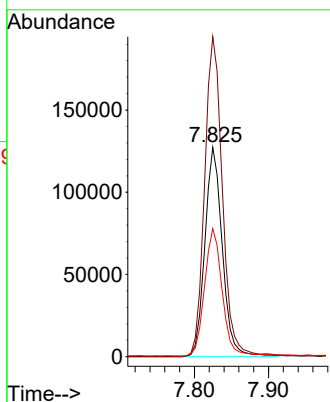
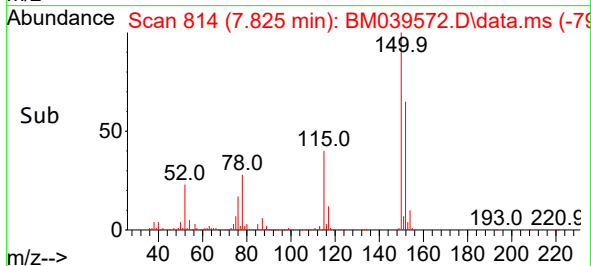
Instrument :
BNA_M
ClientSampleId :
OR-03-042023



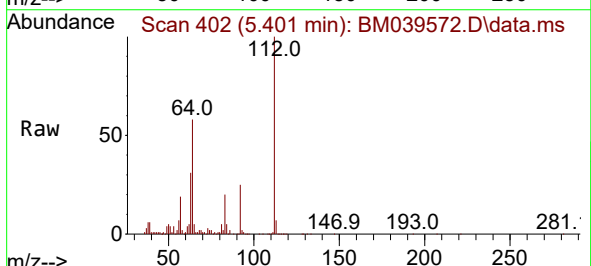
Tgt Ion:152 Resp: 20833
Ion Ratio Lower Upper
152 100
150 152.9 123.0 184.4
115 61.1 49.9 74.9

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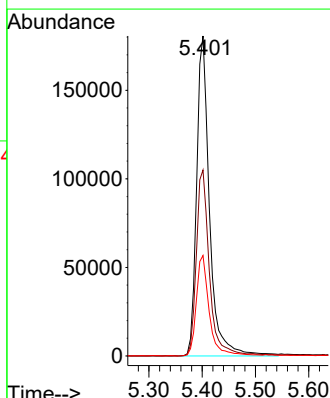
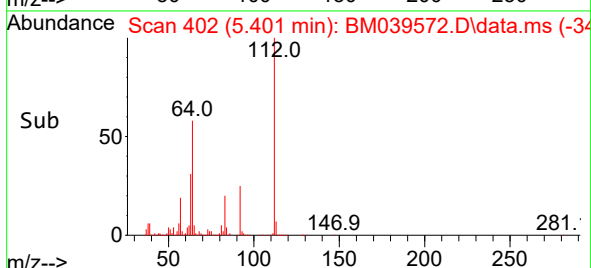
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023

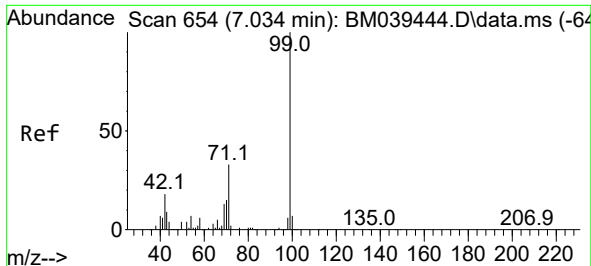


#5
2-Fluorophenol
Concen: 23.886 ng
RT: 5.401 min Scan# 402
Delta R.T. 0.012 min
Lab File: BM039572.D
Acq: 22 Apr 2023 03:43



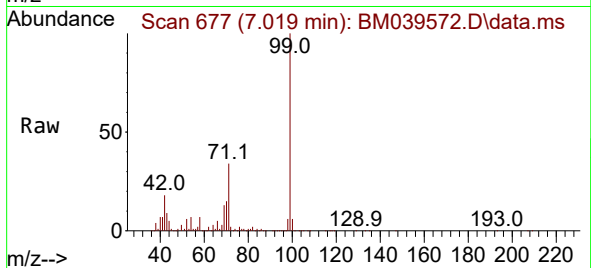
Tgt Ion:112 Resp: 304569
Ion Ratio Lower Upper
112 100
64 58.1 47.0 70.4
63 31.4 24.2 36.4





#7
Phenol-d6
Concen: 19.845 ng
RT: 7.019 min Scan# 61
Delta R.T. 0.012 min
Lab File: BM039572.D
Acq: 22 Apr 2023 03:43

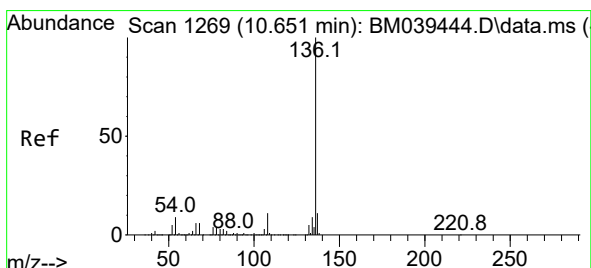
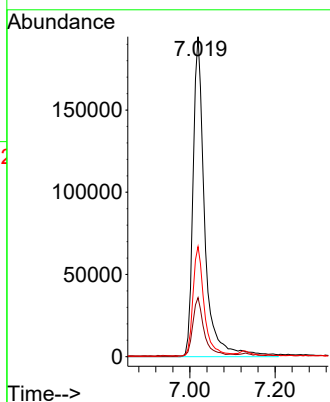
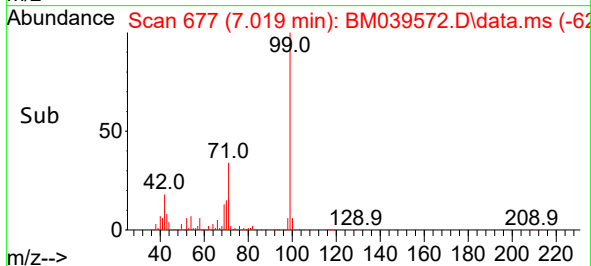
Instrument :
BNA_M
ClientSampleId :
OR-03-042023



Tgt Ion: 99 Resp: 37189
Ion Ratio Lower Upper
99 100
42 18.5 14.2 21.4
71 34.4 26.8 40.2

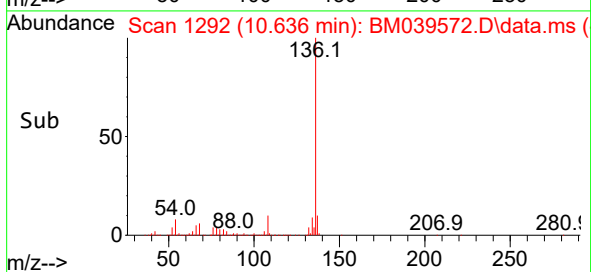
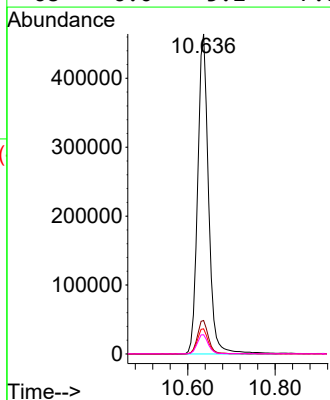
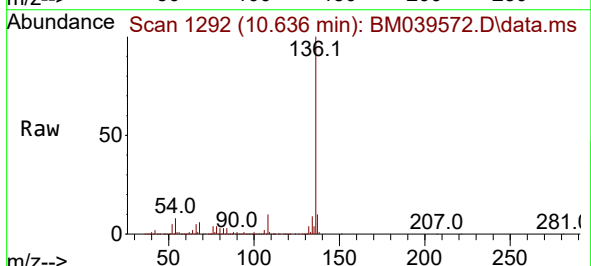
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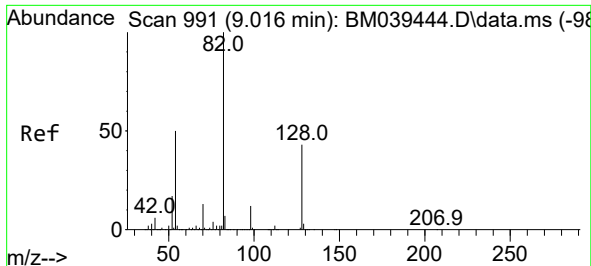
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.636 min Scan# 1292
Delta R.T. 0.006 min
Lab File: BM039572.D
Acq: 22 Apr 2023 03:43

Tgt Ion:136 Resp: 802990
Ion Ratio Lower Upper
136 100
137 10.5 8.6 13.0
54 7.8 6.9 10.3
68 6.0 5.2 7.8





#23

Nitrobenzene-d5

Concen: 13.045 ng

RT: 8.995 min Scan# 1013

Delta R.T. -0.000 min

Lab File: BM039572.D

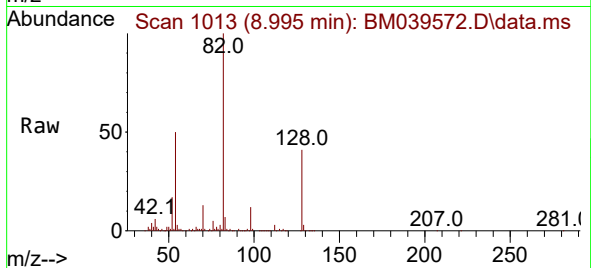
Acq: 22 Apr 2023 03:43

Instrument :

BNA_M

ClientSampleId :

OR-03-042023



Tgt Ion: 82 Resp: 21390

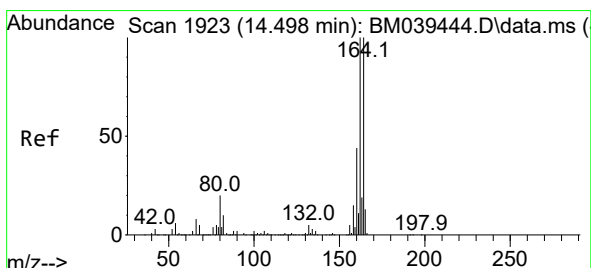
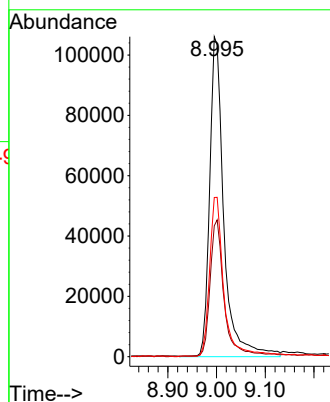
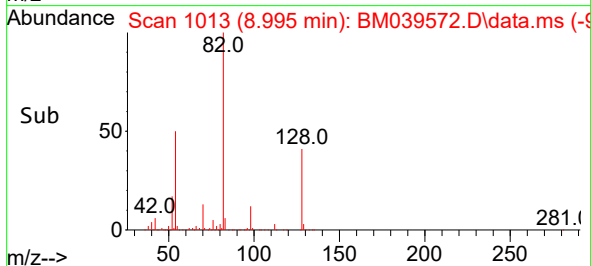
Ion	Ratio	Lower	Upper
82	100		
128	40.9	34.2	51.2
54	49.7	39.7	59.5

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.483 min Scan# 1946

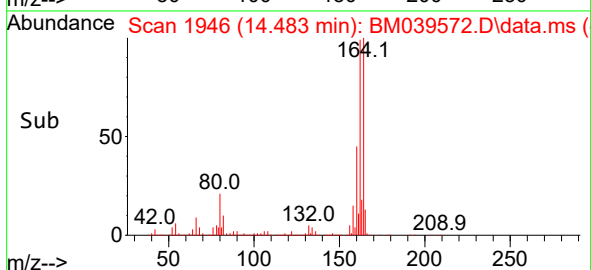
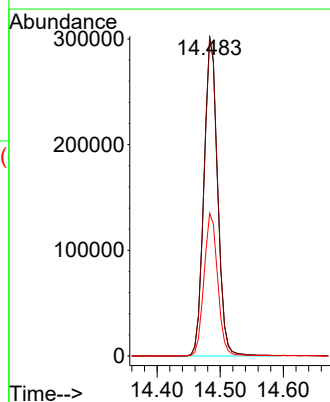
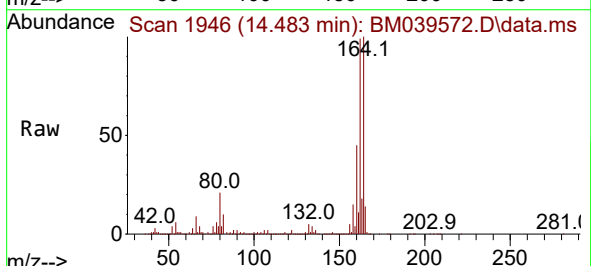
Delta R.T. 0.006 min

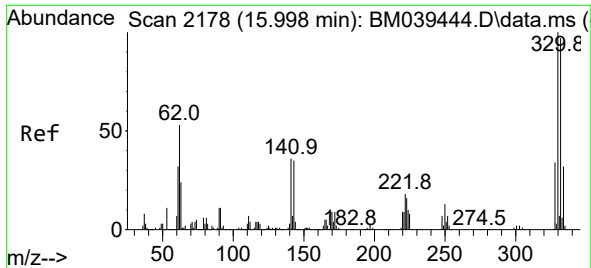
Lab File: BM039572.D

Acq: 22 Apr 2023 03:43

Tgt Ion:164 Resp: 451680

Ion	Ratio	Lower	Upper
164	100		
162	99.1	79.8	119.8
160	44.6	35.0	52.4





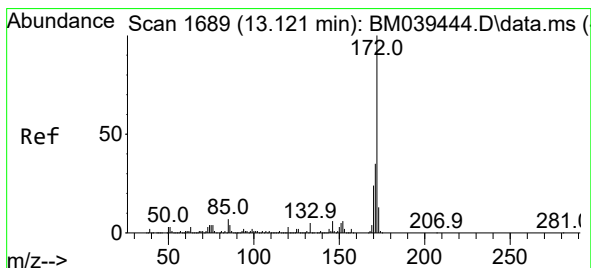
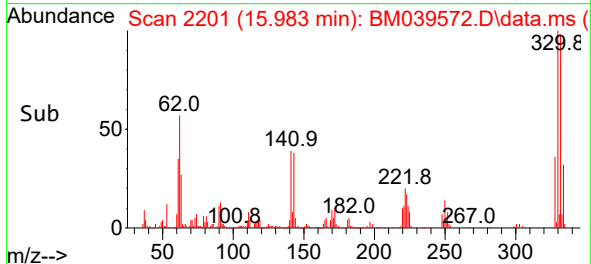
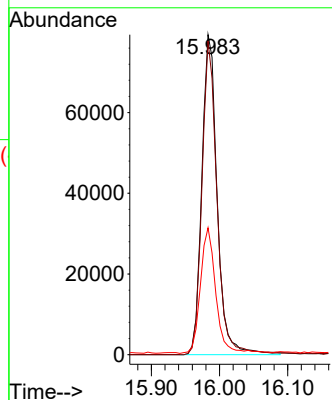
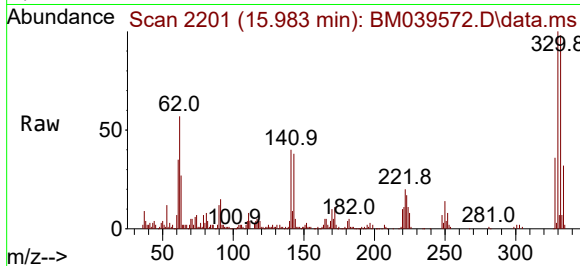
#42
2,4,6-Tribromophenol
Concen: 21.226 ng
RT: 15.983 min Scan# 2178
Delta R.T. 0.006 min
Lab File: BM039572.D
Acq: 22 Apr 2023 03:43

Instrument :
BNA_M
ClientSampleId :
OR-03-042023

Tgt Ion:330 Resp: 12441
Ion Ratio Lower Upper
330 100
332 96.6 77.4 116.2
141 39.4 31.0 46.6

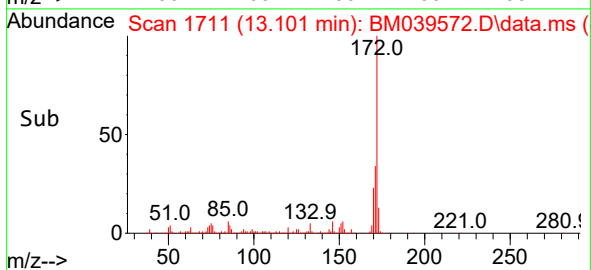
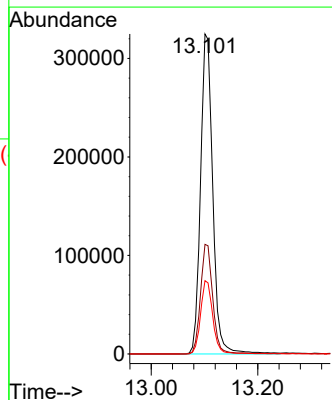
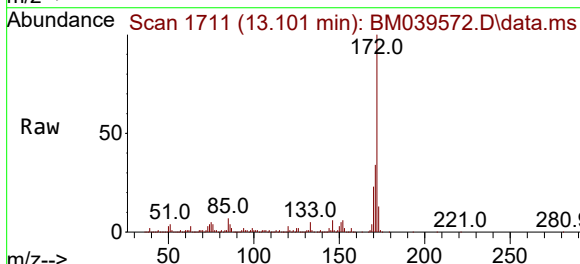
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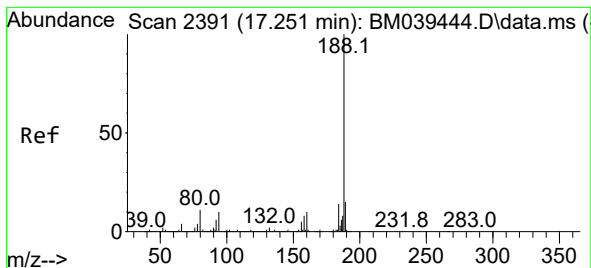
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#45
2-Fluorobiphenyl
Concen: 15.859 ng
RT: 13.101 min Scan# 1711
Delta R.T. -0.000 min
Lab File: BM039572.D
Acq: 22 Apr 2023 03:43

Tgt Ion:172 Resp: 517709
Ion Ratio Lower Upper
172 100
171 34.2 27.8 41.8
170 22.9 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.236 min Scan# 2414

Delta R.T. 0.006 min

Lab File: BM039572.D

Acq: 22 Apr 2023 03:43

Instrument :

BNA_M

ClientSampleId :

OR-03-042023

Tgt Ion:188 Resp: 91986

Ion Ratio Lower Upper

188 100

94 9.8 7.9 11.9

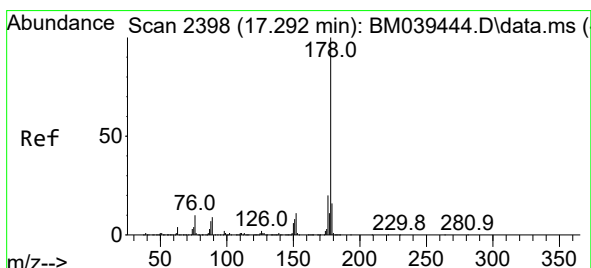
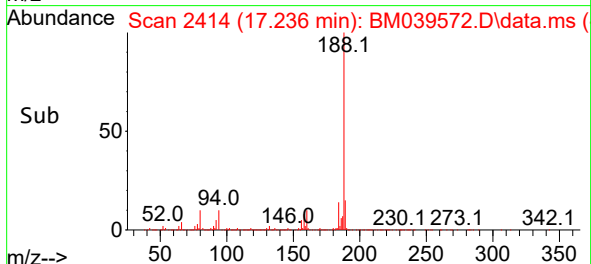
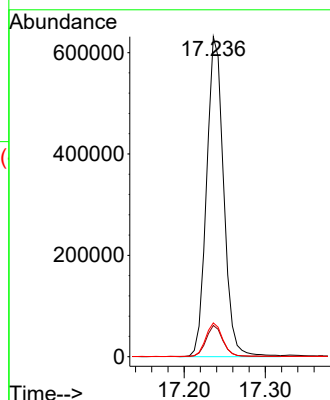
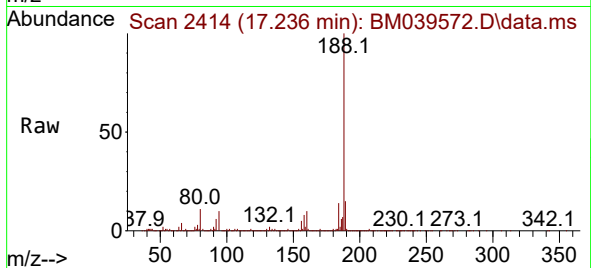
80 10.6 8.9 13.3

Manual Integrations

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Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#71

Phenanthrene

Concen: 7.198 ng

RT: 17.283 min Scan# 2422

Delta R.T. 0.006 min

Lab File: BM039572.D

Acq: 22 Apr 2023 03:43

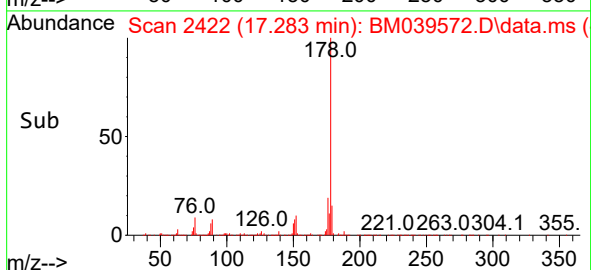
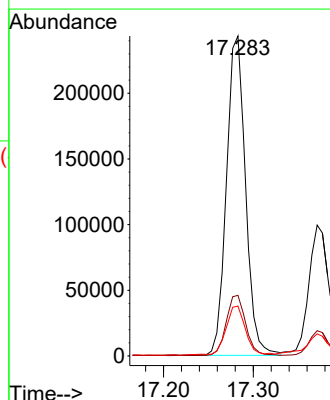
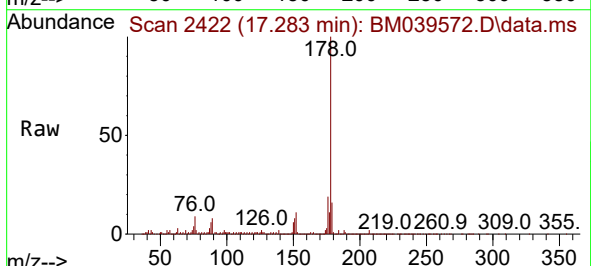
Tgt Ion:178 Resp: 359019

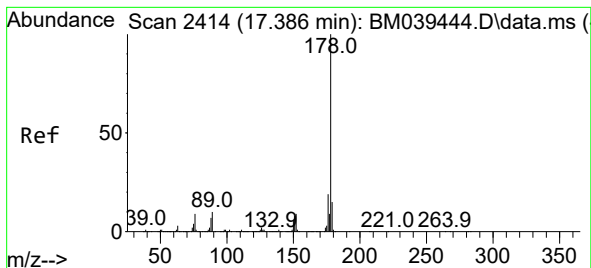
Ion Ratio Lower Upper

178 100

176 19.0 15.6 23.4

179 15.6 12.5 18.7





#72

Anthracene

Concen: 2.964 ng

RT: 17.371 min Scan# 2414

Delta R.T. 0.006 min

Lab File: BM039572.D

Acq: 22 Apr 2023 03:43

Instrument :

BNA_M

ClientSampleId :

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Tgt Ion:178 Resp: 151652

Ion Ratio Lower Upper

178 100

176 19.4 15.2 22.8

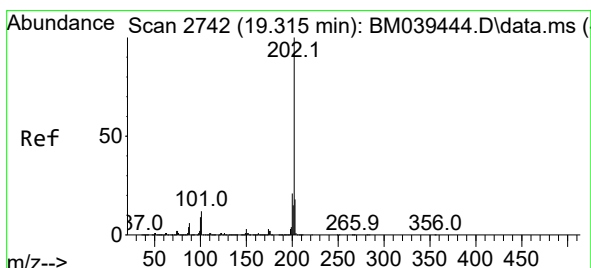
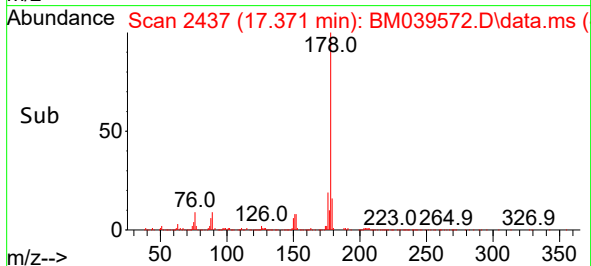
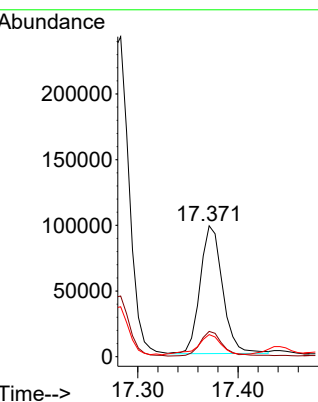
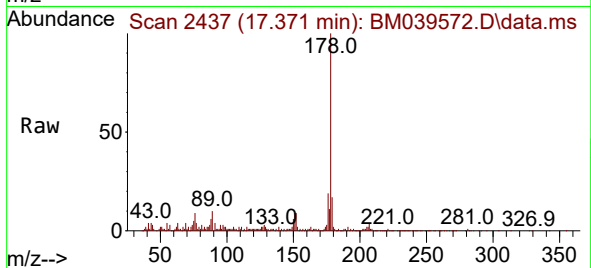
179 16.9 12.2 18.4

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Supervised By :Jagrut Upadhyay 04/24/2023



#75

Fluoranthene

Concen: 16.501 ng

RT: 19.300 min Scan# 2765

Delta R.T. 0.006 min

Lab File: BM039572.D

Acq: 22 Apr 2023 03:43

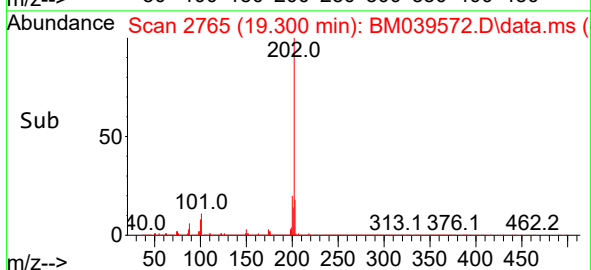
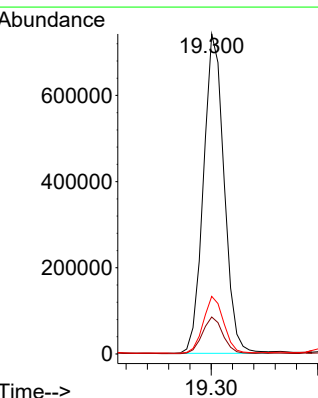
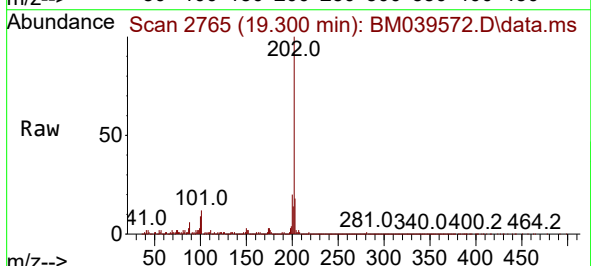
Tgt Ion:202 Resp: 998566

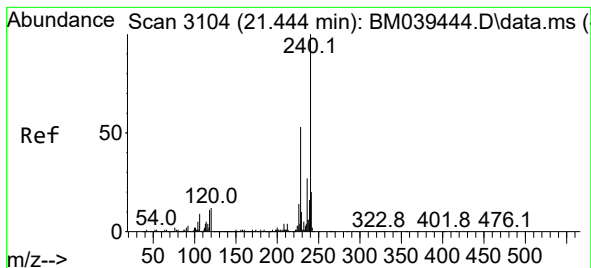
Ion Ratio Lower Upper

202 100

101 11.6 0.0 32.1

203 18.0 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.430 min Scan# 3104

Delta R.T. 0.006 min

Lab File: BM039572.D

Acq: 22 Apr 2023 03:43

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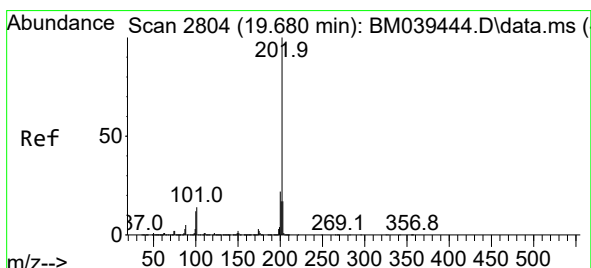
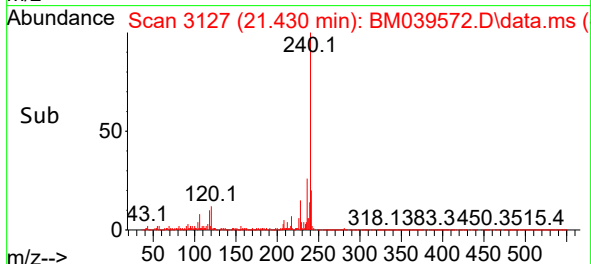
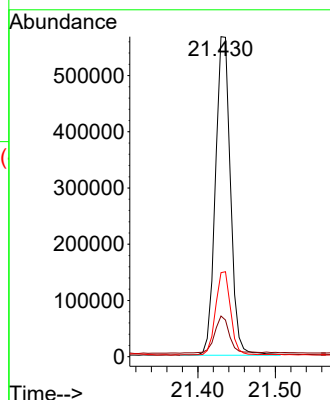
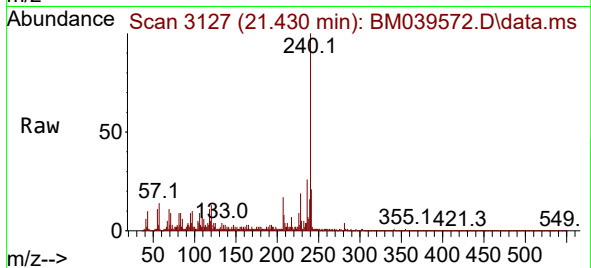
Tgt Ion:240	Resp: 76481
Ion Ratio	Lower Upper
240 100	
120 12.7	9.4 14.2
236 26.3	21.2 31.8

Manual Integrations

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Supervised By :Jagrut Upadhyay 04/24/2023



#78

Pyrene

Concen: 16.541 ng

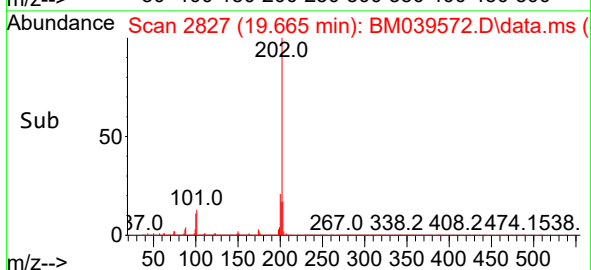
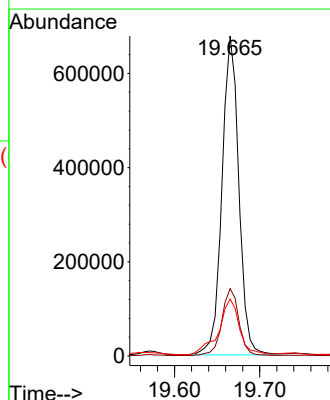
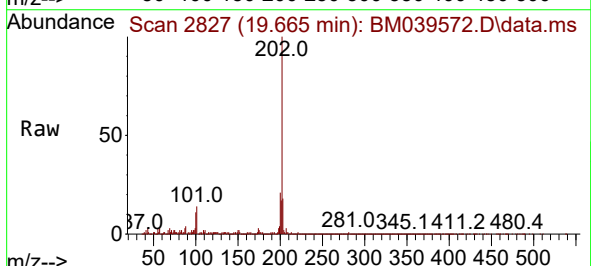
RT: 19.665 min Scan# 2827

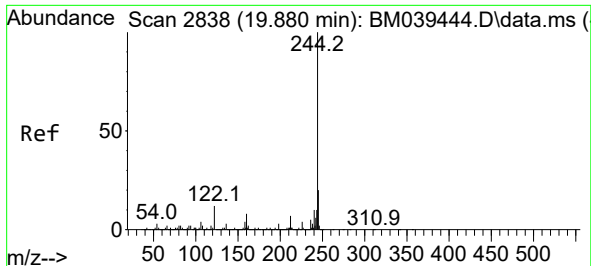
Delta R.T. 0.006 min

Lab File: BM039572.D

Acq: 22 Apr 2023 03:43

Tgt Ion:202	Resp: 930334
Ion Ratio	Lower Upper
202 100	
200 21.0	17.2 25.8
203 17.8	13.9 20.9





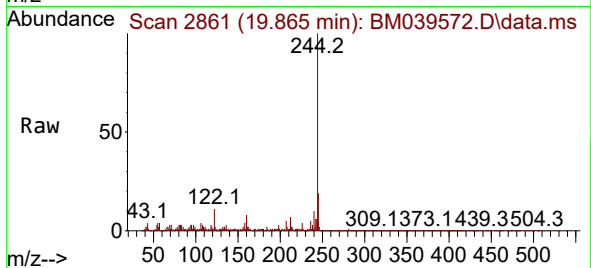
#79
 Terphenyl-d14
 Concen: 17.731 ng
 RT: 19.865 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BM039572.D
 Acq: 22 Apr 2023 03:43

Instrument :

BNA_M

ClientSampleId :

OR-03-042023

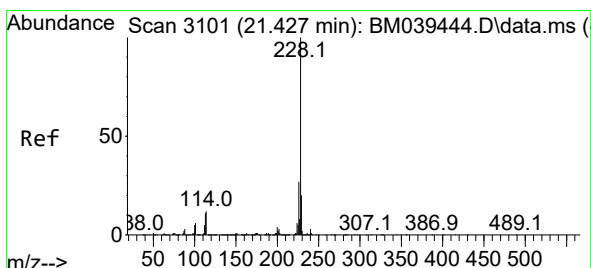
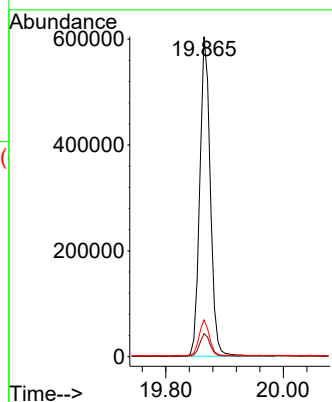
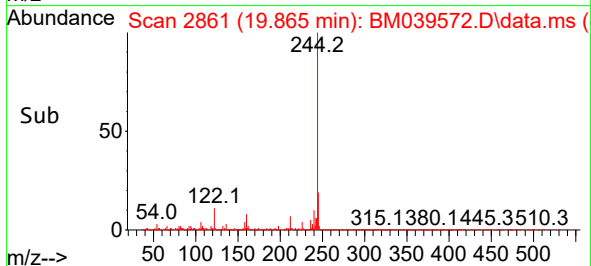


Tgt Ion:244 Resp: 751694
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.8 8.8
 122 11.5 9.5 14.3

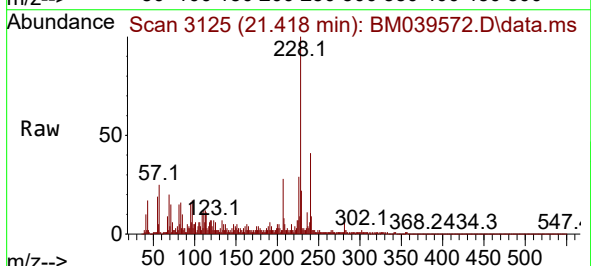
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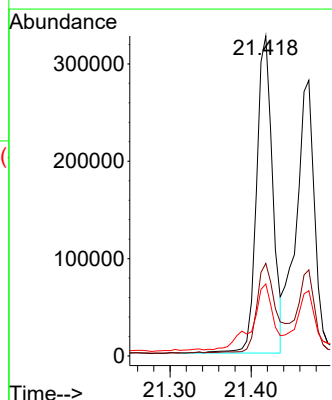
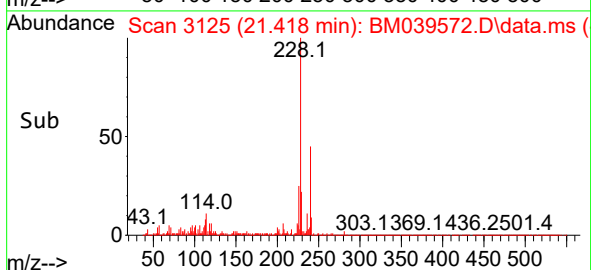
Reviewed By :Christian Giraldo 04/24/2023
 Supervised By :Jagrut Upadhyay 04/24/2023

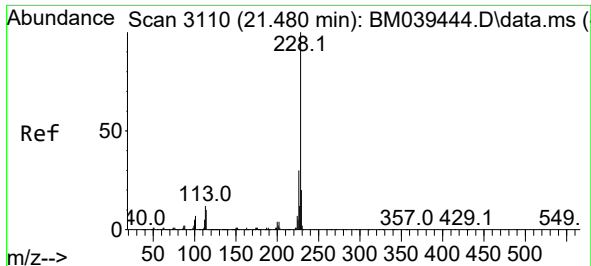


#81
 Benzo(a)anthracene
 Concen: 8.255 ng
 RT: 21.418 min Scan# 3125
 Delta R.T. 0.006 min
 Lab File: BM039572.D
 Acq: 22 Apr 2023 03:43



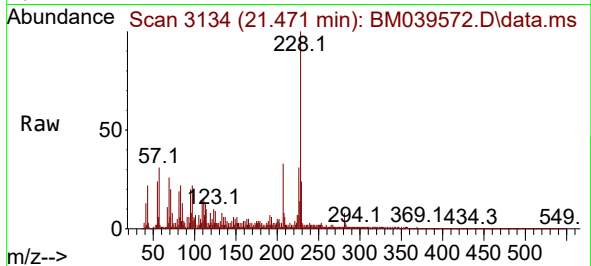
Tgt Ion:228 Resp: 448343
 Ion Ratio Lower Upper
 228 100
 226 28.9 21.8 32.8
 229 22.5 15.9 23.9





#83
Chrysene
Concen: 8.343 ng m
RT: 21.471 min Scan# 3110
Delta R.T. 0.006 min
Lab File: BM039572.D
Acq: 22 Apr 2023 03:43

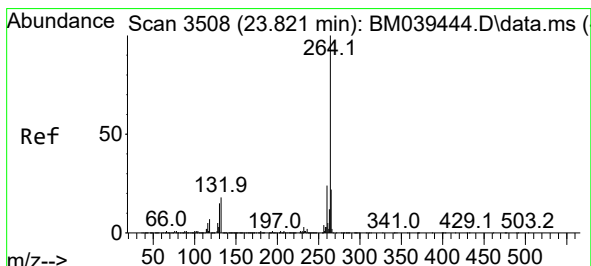
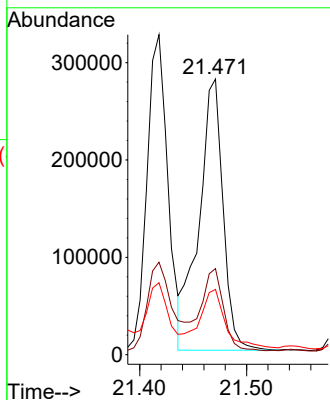
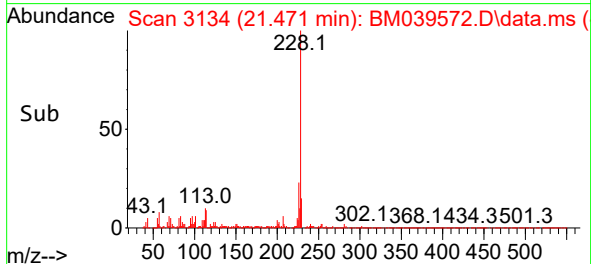
Instrument :
BNA_M
ClientSampleId :
OR-03-042023



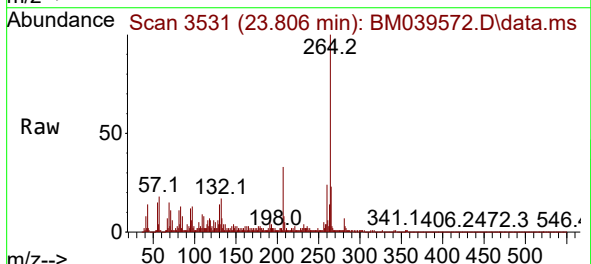
Tgt Ion:228 Resp: 439220
Ion Ratio Lower Upper
228 100
226 31.2 24.0 36.0
229 23.7 16.0 24.0

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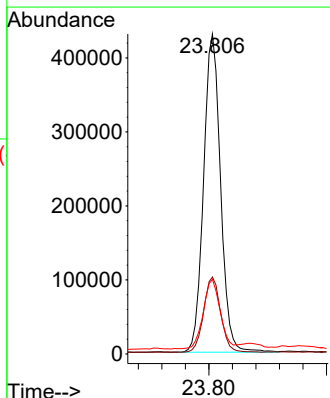
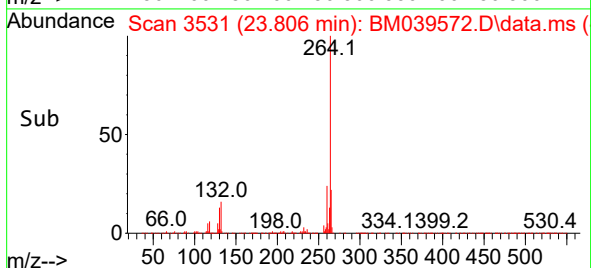
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023

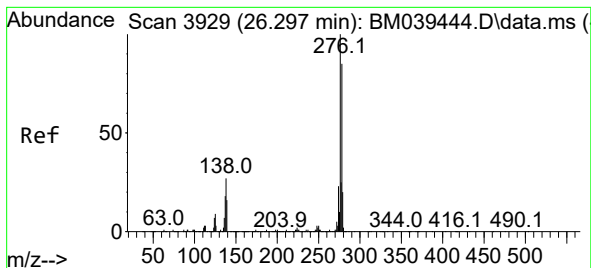


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.806 min Scan# 3531
Delta R.T. 0.018 min
Lab File: BM039572.D
Acq: 22 Apr 2023 03:43



Tgt Ion:264 Resp: 861456
Ion Ratio Lower Upper
264 100
260 24.1 19.0 28.6
265 23.3 18.0 27.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.076 ng

RT: 26.265 min Scan# 3949

Delta R.T. 0.029 min

Lab File: BM039572.D

Acq: 22 Apr 2023 03:43

Instrument :

BNA_M

ClientSampleId :

OR-03-042023

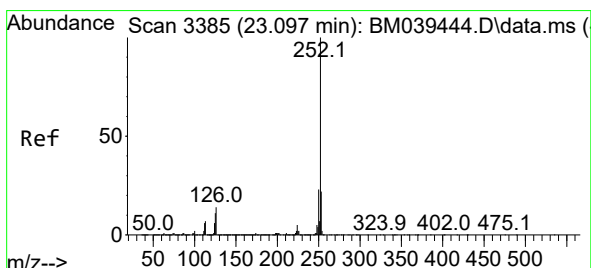
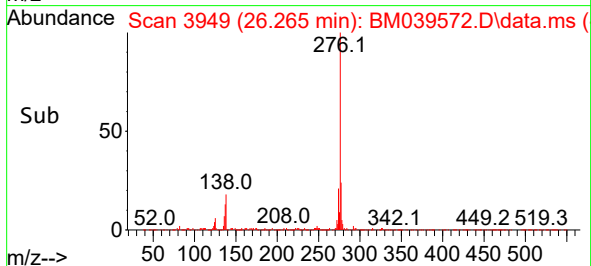
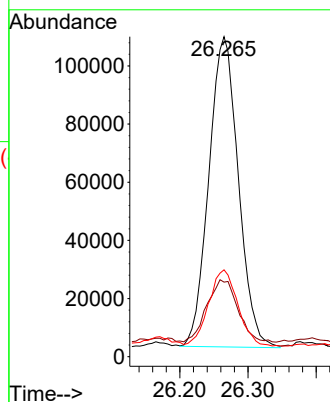
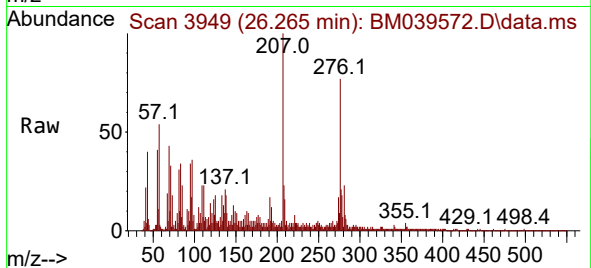
Tgt Ion:	276	Resp:	32134
Ion Ratio	Lower	Upper	
276	100		
138	21.0	21.4	32.0
277	24.2	20.0	30.0

Manual Integrations

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Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#88

Benzo(b)fluoranthene

Concen: 12.724 ng m

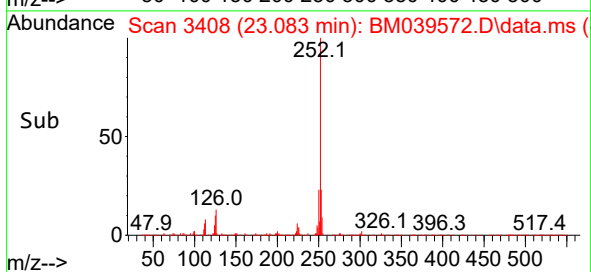
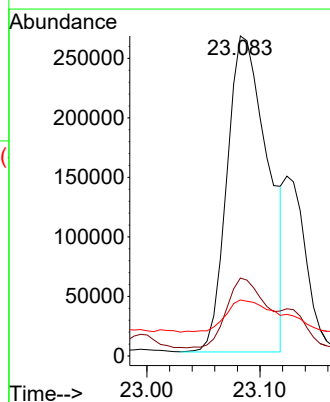
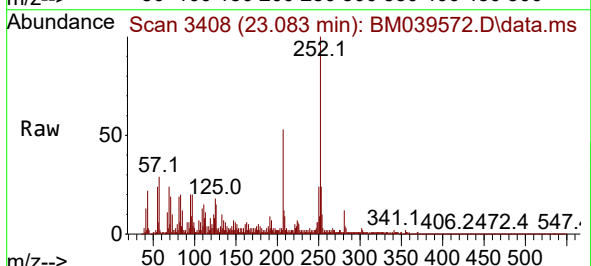
RT: 23.083 min Scan# 3408

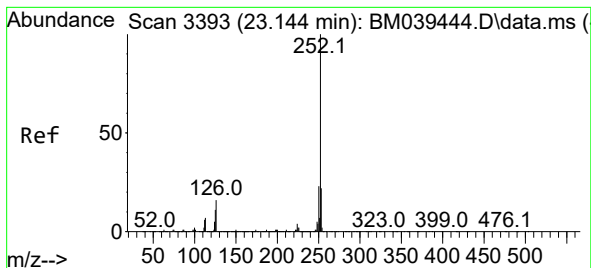
Delta R.T. 0.012 min

Lab File: BM039572.D

Acq: 22 Apr 2023 03:43

Tgt Ion:	252	Resp:	668299
Ion Ratio	Lower	Upper	
252	100		
253	24.3	17.8	26.6
125	17.5	8.9	13.3





#89

Benzo(k)fluoranthene

Concen: 3.528 ng m

RT: 23.124 min Scan# 3415

Delta R.T. 0.006 min

Lab File: BM039572.D

Acq: 22 Apr 2023 03:43

Instrument :

BNA_M

ClientSampleId :

OR-03-042023

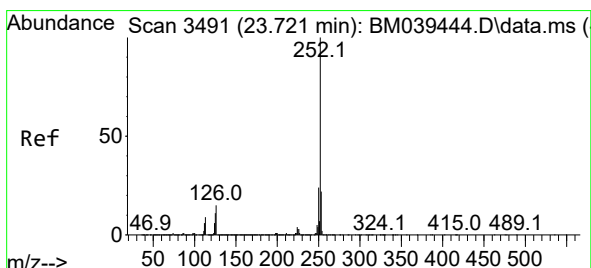
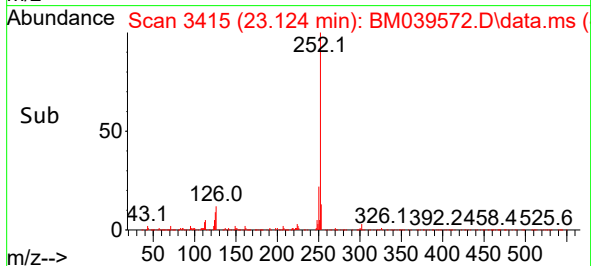
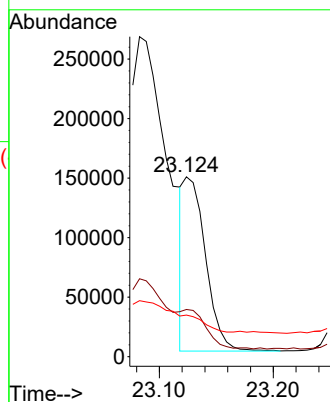
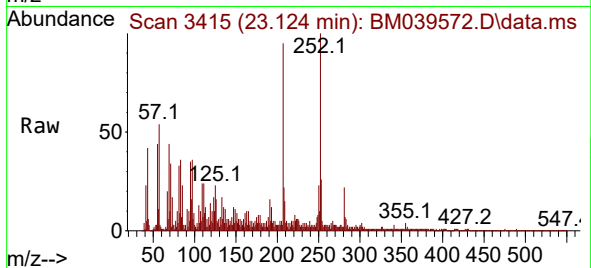
Tgt Ion:	252	Resp:	19372
Ion Ratio	Lower	Upper	
252	100		
253	26.3	17.5	26.3
125	23.2	8.8	13.2

Manual Integrations

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Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#90

Benzo(a)pyrene

Concen: 9.119 ng

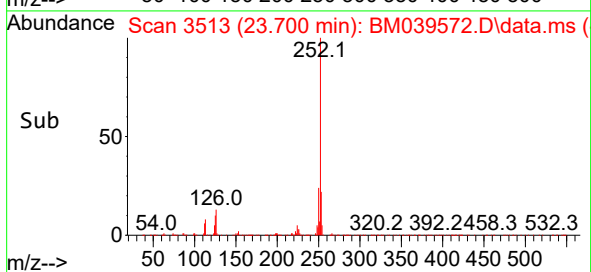
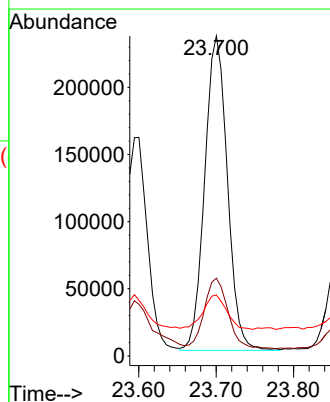
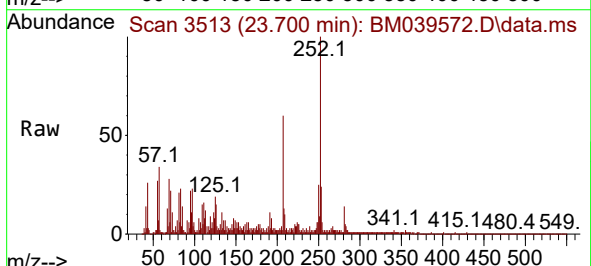
RT: 23.700 min Scan# 3513

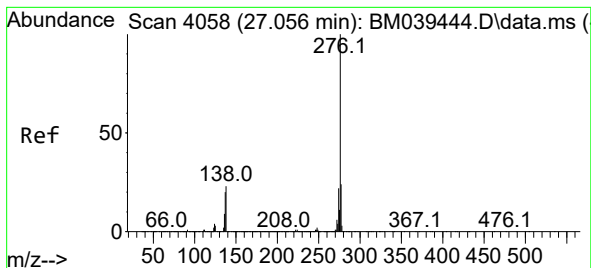
Delta R.T. 0.018 min

Lab File: BM039572.D

Acq: 22 Apr 2023 03:43

Tgt Ion:	252	Resp:	476009
Ion Ratio	Lower	Upper	
252	100		
253	24.3	17.7	26.5
125	19.0	9.0	13.6





#92

Benzo(g,h,i)perylene

Concen: 6.011 ng

RT: 27.023 min Scan# 40

Delta R.T. 0.035 min

Lab File: BM039572.D

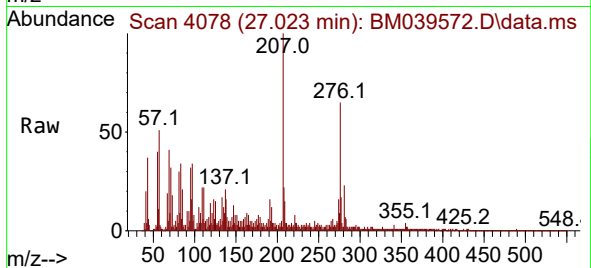
Acq: 22 Apr 2023 03:43

Instrument :

BNA_M

ClientSampleId :

OR-03-042023



Tgt Ion:276 Resp: 313469

Ion Ratio Lower Upper

276 100

277 26.7 19.1 28.7

138 25.1 18.8 28.2

Manual Integrations

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Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023

