

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032823\
 Data File : BM039194.D
 Acq On : 29 Mar 2023 00:03
 Operator : CG/JU
 Sample : 01998-03DL 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BROAD-CHANNEL-SUBSTATION-TP2DL

Quant Time: Mar 29 01:34:13 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 29 01:28:31 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 03/29/2023
 Supervised By :Jagrut Upadhyay 03/29/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.934	152	423176	20.000	ng	0.00
21) Naphthalene-d8	10.745	136	1748955	20.000	ng	0.00
39) Acenaphthene-d10	14.580	164	957640	20.000	ng	0.00
64) Phenanthrene-d10	17.327	188	1698203	20.000	ng	0.00
76) Chrysene-d12	21.503	240	1231400	20.000	ng	0.00
86) Perylene-d12	23.927	264	1338898	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	474136	17.022	ng	0.00
7) Phenol-d6	7.098	99	613156	16.948	ng	-0.01
23) Nitrobenzene-d5	9.104	82	379524	10.659	ng	0.00
42) 2,4,6-Tribromophenol	16.068	330	154598	13.955	ng	0.00
45) 2-Fluorobiphenyl	13.204	172	763982	10.385	ng	0.00
79) Terphenyl-d14	19.945	244	725957	10.779	ng	0.00
Target Compounds						
						Qvalue
71) Phenanthrene	17.368	178	1543280	15.484	ng	99
72) Anthracene	17.457	178	390277	3.927	ng	99
73) Carbazole	17.727	167	199158	2.195	ng	99
75) Fluoranthene	19.380	202	2205753	20.960	ng	99
78) Pyrene	19.745	202	1896608	20.506	ng	99
81) Benzo(a)anthracene	21.492	228	982025	11.074	ng	98
83) Chrysene	21.544	228	903337m	10.474	ng	
87) Indeno(1,2,3-cd)pyrene	26.432	276	618572	6.072	ng	96
88) Benzo(b)fluoranthene	23.186	252	1260633	14.738	ng	98
89) Benzo(k)fluoranthene	23.233	252	376005m	4.224	ng	
90) Benzo(a)pyrene	23.815	252	877303	10.657	ng	99
92) Benzo(g,h,i)perylene	27.209	276	631018	7.475	ng	99

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

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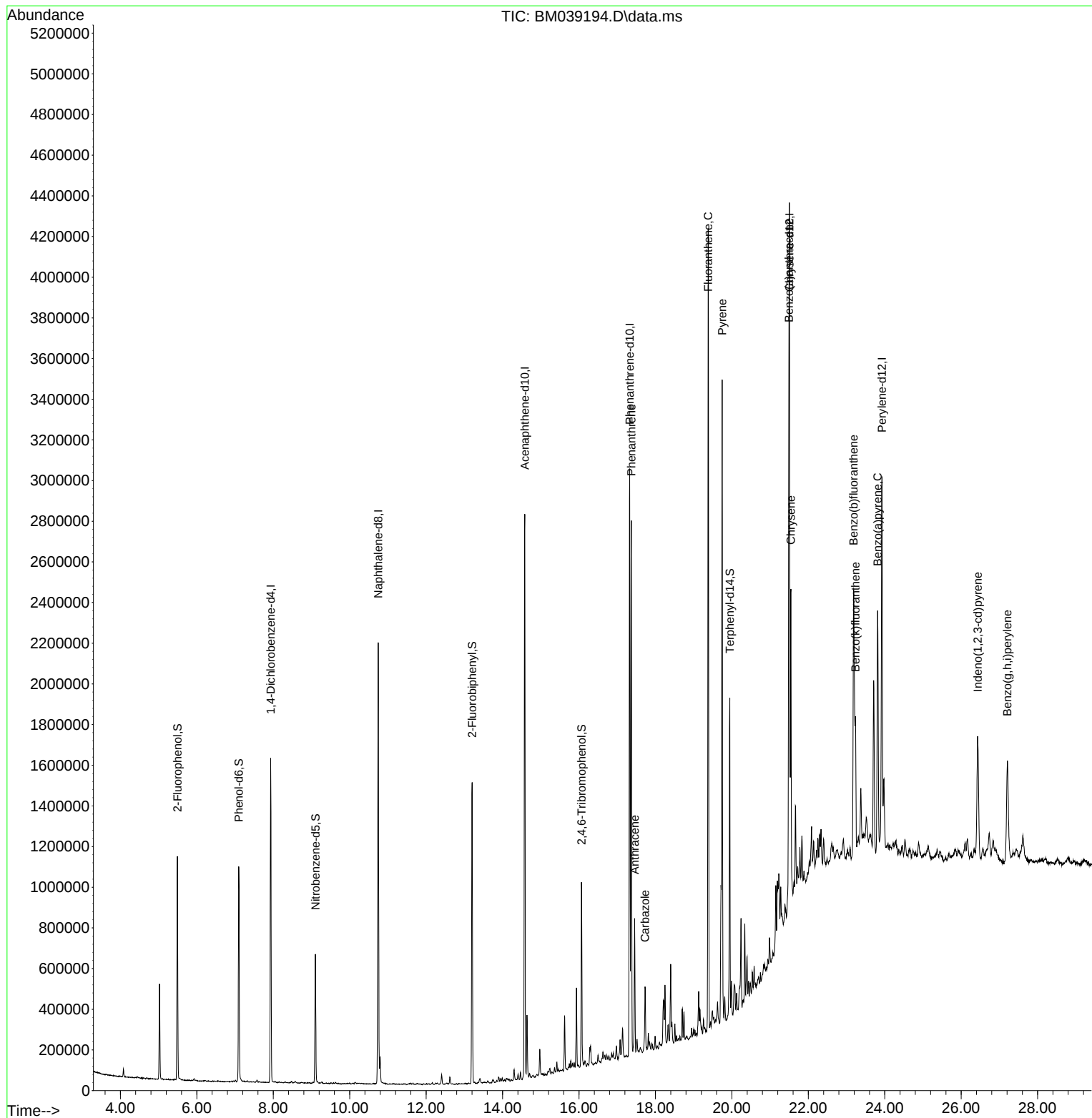
BROAD-CHANNEL-SUBSTATION-TP2DL

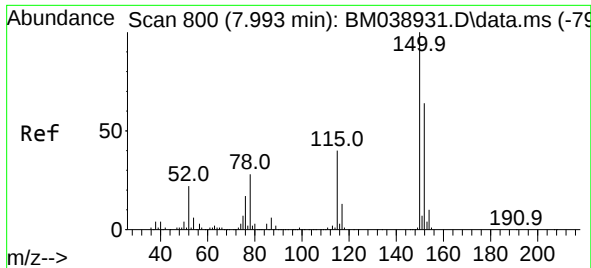
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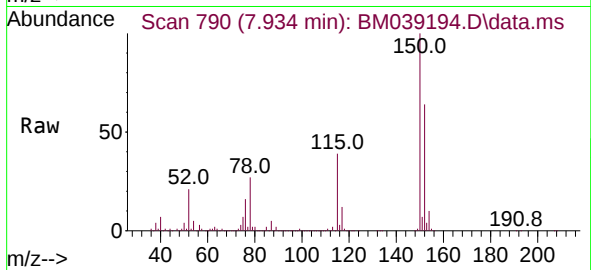
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.934 min Scan# 79
Delta R.T. -0.005 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

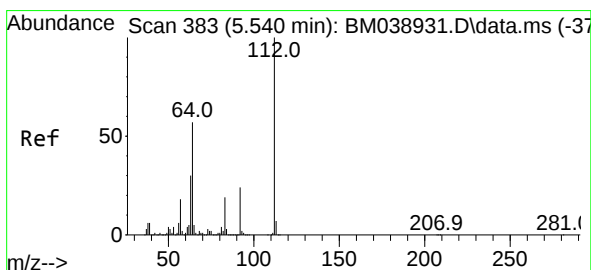
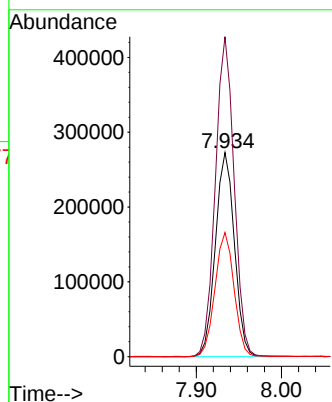
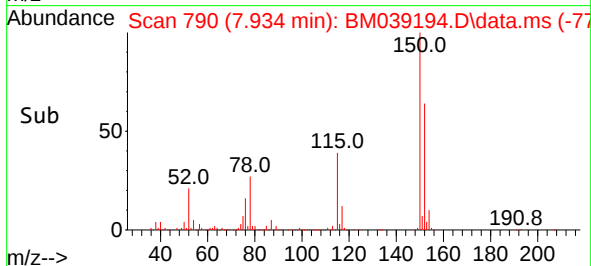
Instrument :
BNA_M
ClientSampleId :
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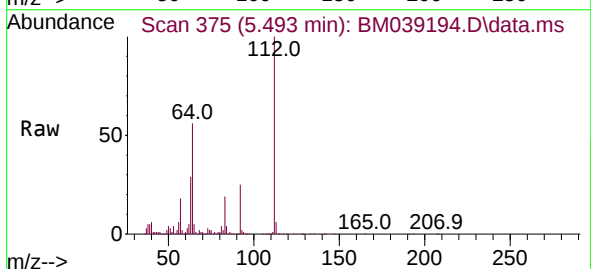
Tgt Ion:152 Resp: 423176
Ion Ratio Lower Upper
152 100
150 156.9 125.1 187.7
115 60.8 49.6 74.4

Manual Integrations
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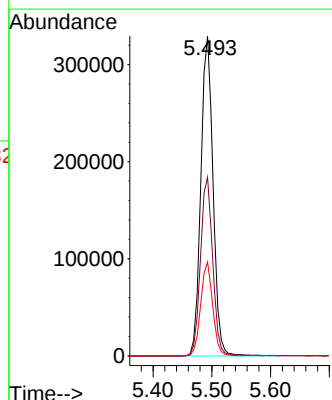
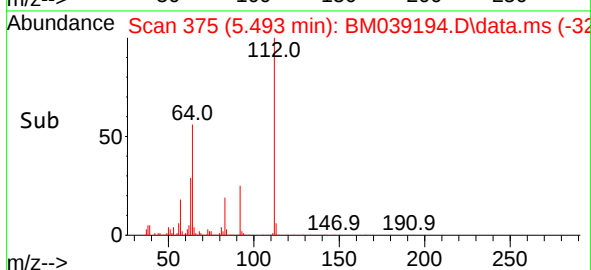
Reviewed By :Christian Giraldo 03/29/2023
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#5
2-Fluorophenol
Concen: 17.022 ng
RT: 5.493 min Scan# 375
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03



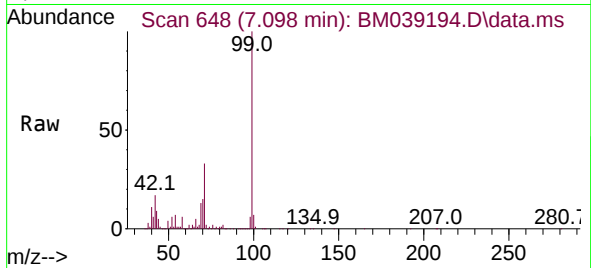
Tgt Ion:112 Resp: 474136
Ion Ratio Lower Upper
112 100
64 55.8 45.9 68.9
63 29.4 23.8 35.8





#7
Phenol-d6
Concen: 16.948 ng
RT: 7.098 min Scan# 64
Delta R.T. -0.012 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

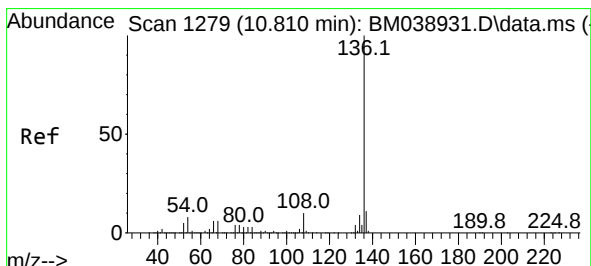
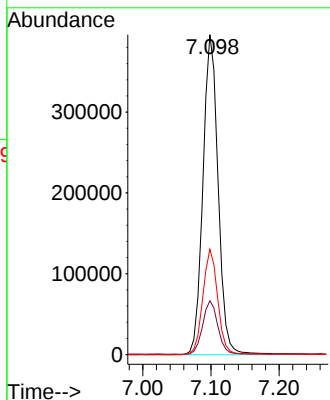
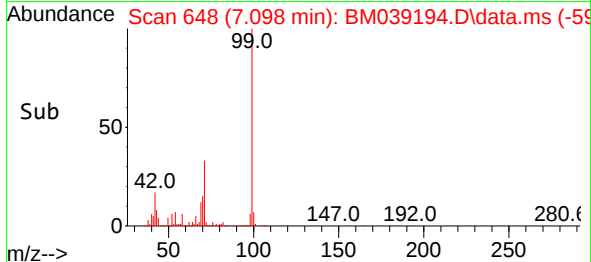
Instrument :
BNA_M
ClientSampleId :
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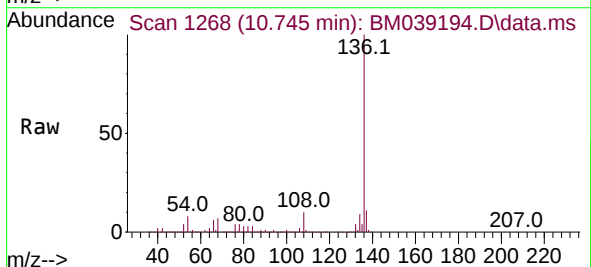
Tgt Ion: 99 Resp: 613156
Ion Ratio Lower Upper
99 100
42 16.8 13.5 20.3
71 32.9 25.6 38.4

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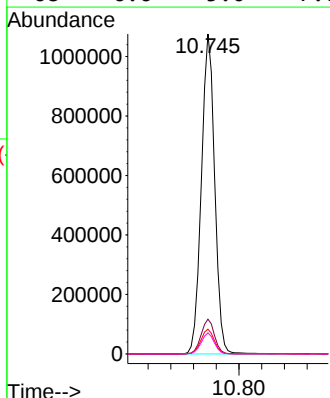
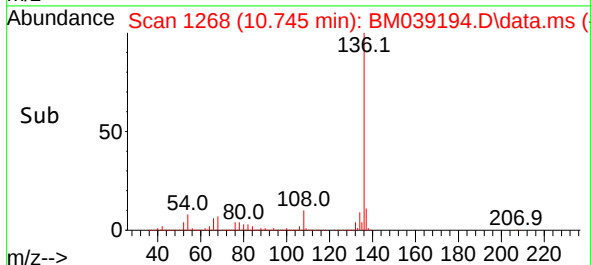
Reviewed By :Christian Giraldo 03/29/2023
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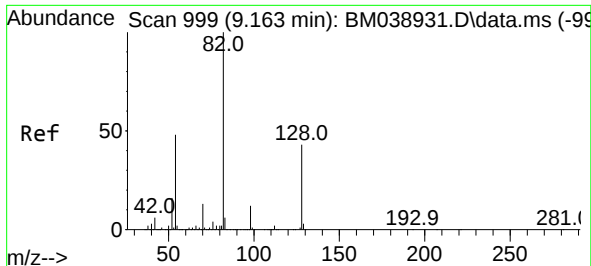


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.745 min Scan# 1268
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03



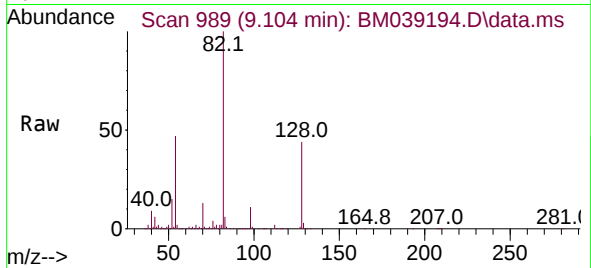
Tgt Ion:136 Resp: 1748955
Ion Ratio Lower Upper
136 100
137 10.8 8.7 13.1
54 7.7 6.3 9.5
68 6.6 5.0 7.6





#23
Nitrobenzene-d5
Concen: 10.659 ng
RT: 9.104 min Scan# 989
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

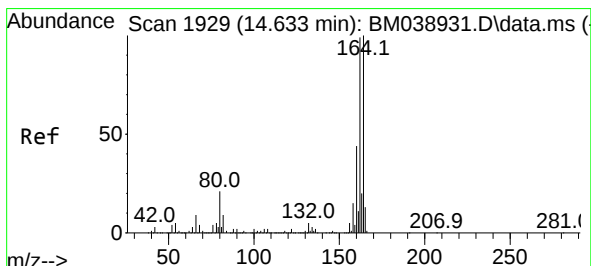
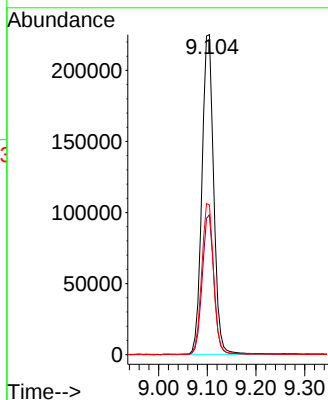
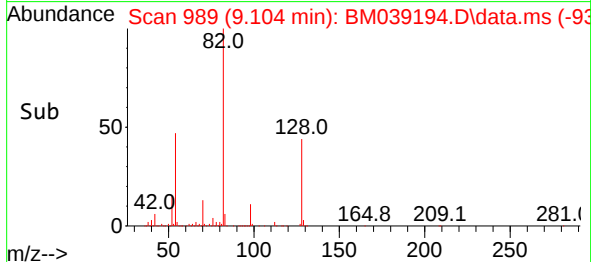
Instrument :
BNA_M
ClientSampleId :
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Tgt Ion: 82 Resp: 379524
Ion Ratio Lower Upper
82 100
128 43.7 34.4 51.6
54 46.8 38.8 58.2

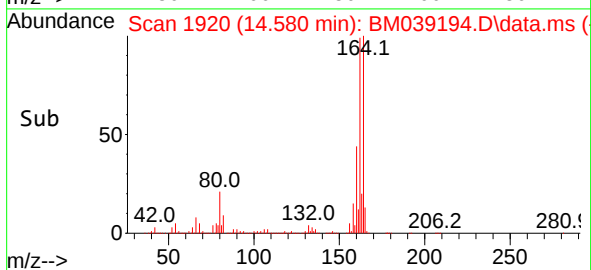
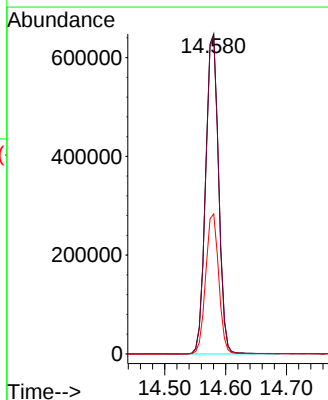
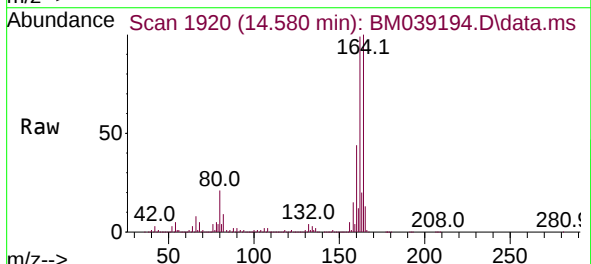
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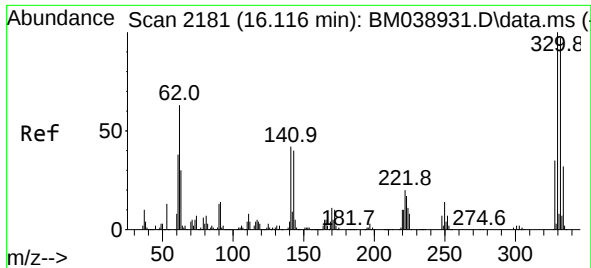
Reviewed By :Christian Giraldo 03/29/2023
Supervised By :Jagrut Upadhyay 03/29/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.580 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion:164 Resp: 957640
Ion Ratio Lower Upper
164 100
162 99.1 79.2 118.8
160 43.8 35.5 53.3





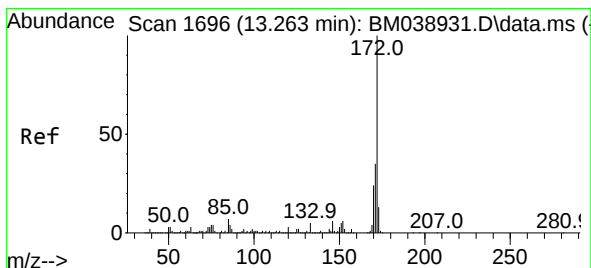
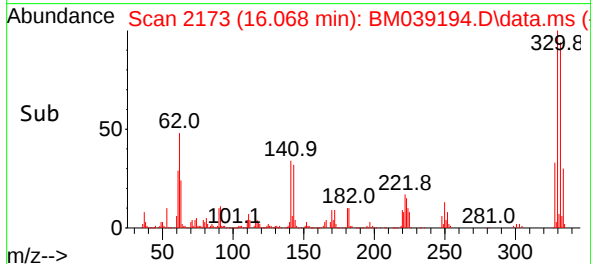
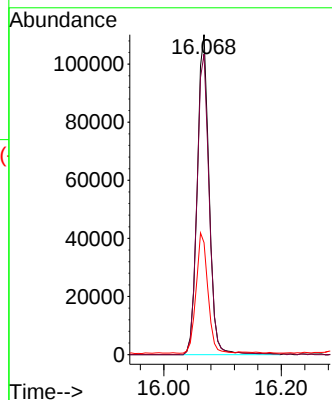
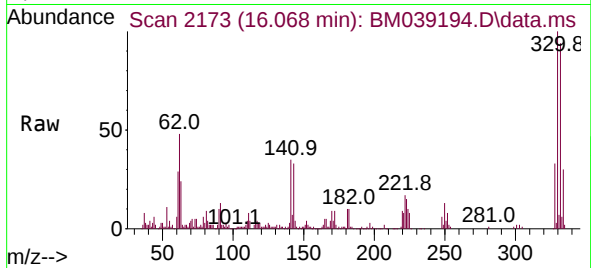
#42
2,4,6-Tribromophenol
Concen: 13.955 ng
RT: 16.068 min Scan# 2181
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP2DL

Tgt Ion:330 Resp: 154598
Ion Ratio Lower Upper
330 100
332 96.6 77.4 116.0
141 37.1 32.2 48.4

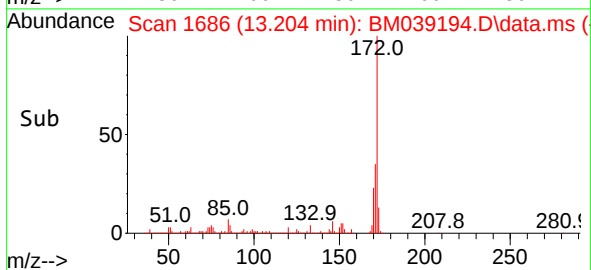
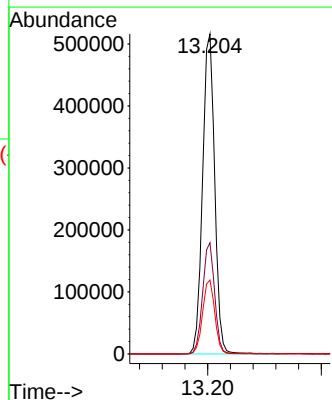
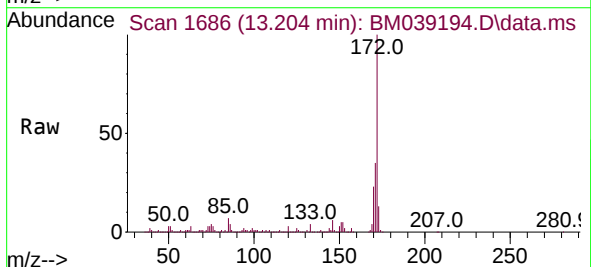
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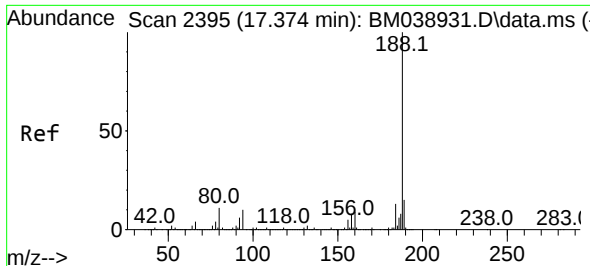
Reviewed By :Christian Giraldo 03/29/2023
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#45
2-Fluorobiphenyl
Concen: 10.385 ng
RT: 13.204 min Scan# 1686
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

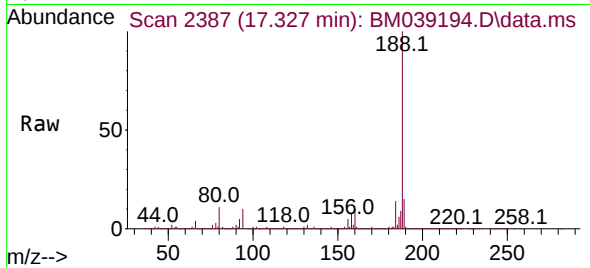
Tgt Ion:172 Resp: 763982
Ion Ratio Lower Upper
172 100
171 34.7 28.2 42.2
170 23.1 19.1 28.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.327 min Scan# 2394
Delta R.T. 0.000 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

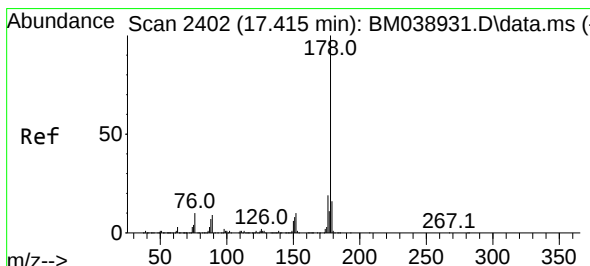
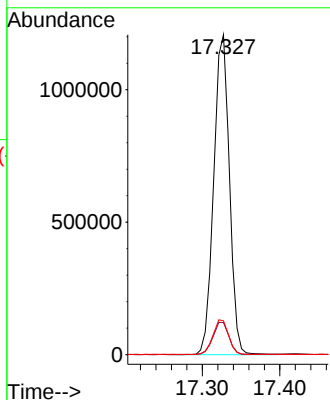
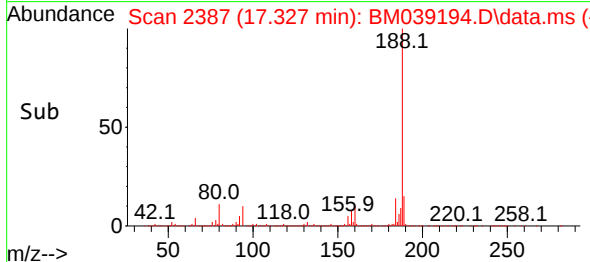
Instrument :
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BROAD-CHANNEL-SUBSTATION-TP2DL



Tgt Ion:188 Resp: 1698203
Ion Ratio Lower Upper
188 100
94 10.0 7.9 11.9
80 10.6 8.5 12.7

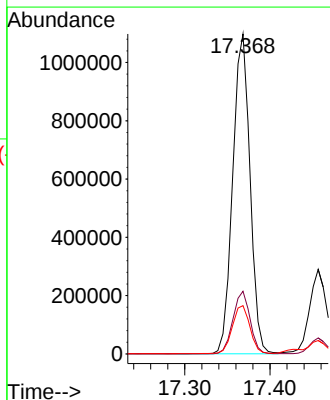
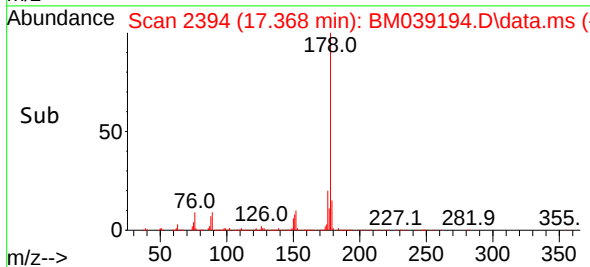
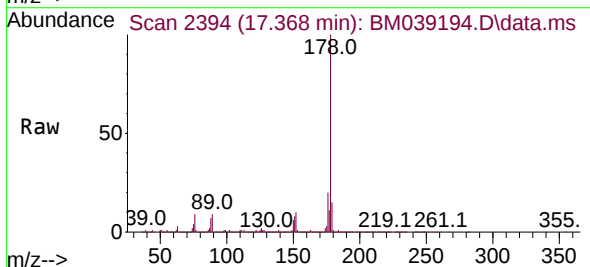
Manual Integrations
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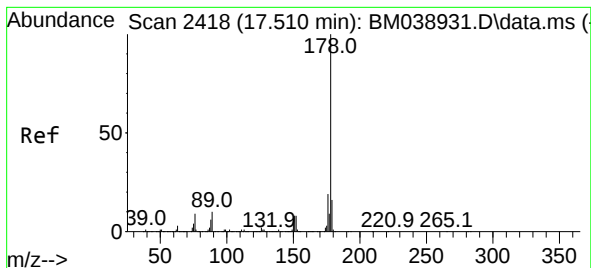
Reviewed By :Christian Giraldo 03/29/2023
Supervised By :Jagrut Upadhyay 03/29/2023



#71
Phenanthrene
Concen: 15.484 ng
RT: 17.368 min Scan# 2394
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

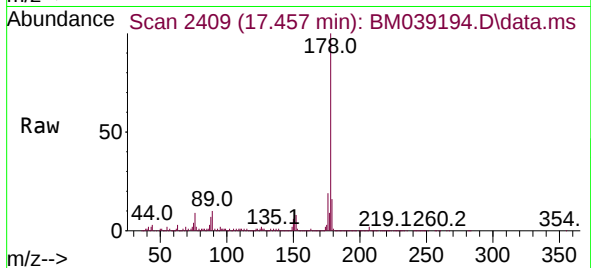
Tgt Ion:178 Resp: 1543280
Ion Ratio Lower Upper
178 100
176 19.6 15.6 23.4
179 15.1 12.5 18.7





#72
 Anthracene
 Concen: 3.927 ng
 RT: 17.457 min Scan# 2418
 Delta R.T. -0.006 min
 Lab File: BM039194.D
 Acq: 29 Mar 2023 00:03

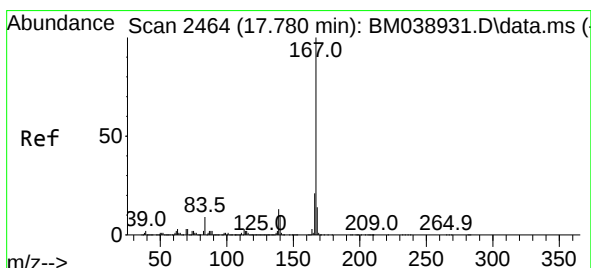
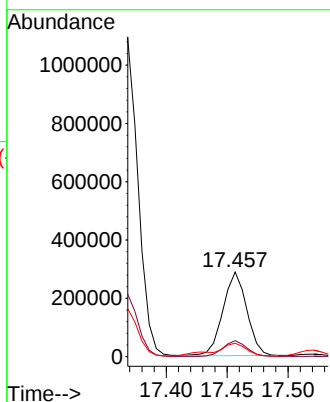
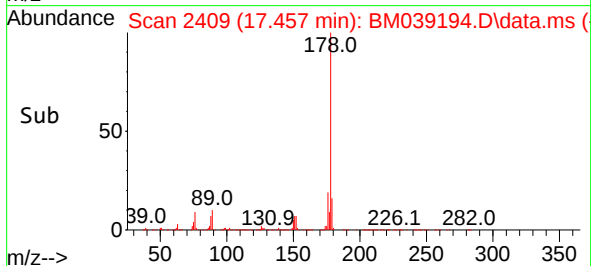
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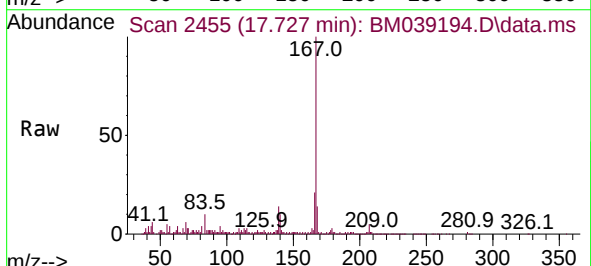
Tgt Ion:178 Resp: 390272
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.3 22.9
 179 15.8 12.5 18.7

Manual Integrations
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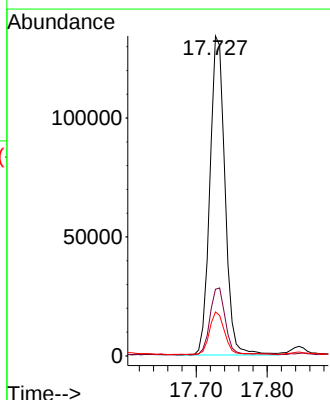
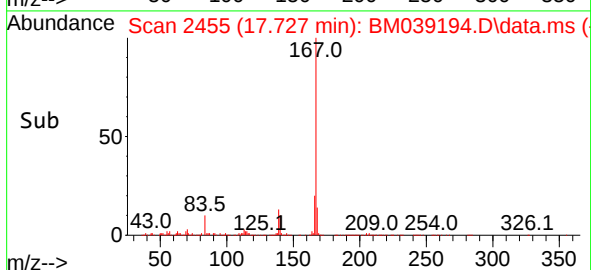
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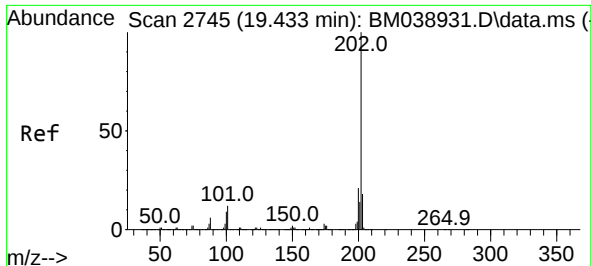


#73
 Carbazole
 Concen: 2.195 ng
 RT: 17.727 min Scan# 2455
 Delta R.T. -0.012 min
 Lab File: BM039194.D
 Acq: 29 Mar 2023 00:03



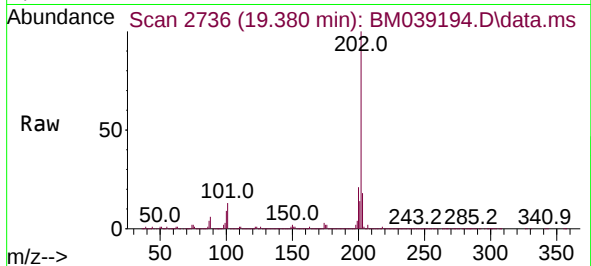
Tgt Ion:167 Resp: 199158
 Ion Ratio Lower Upper
 167 100
 166 20.8 17.0 25.4
 139 13.7 10.3 15.5





#75
Fluoranthene
Concen: 20.960 ng
RT: 19.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

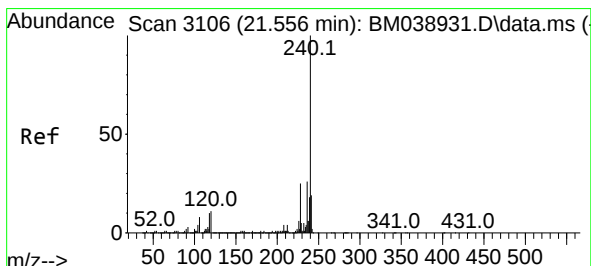
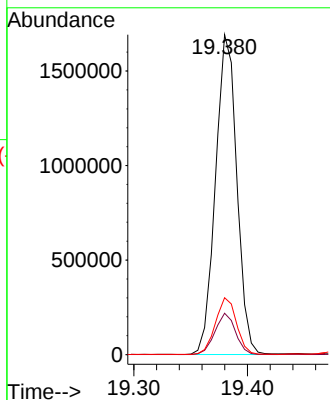
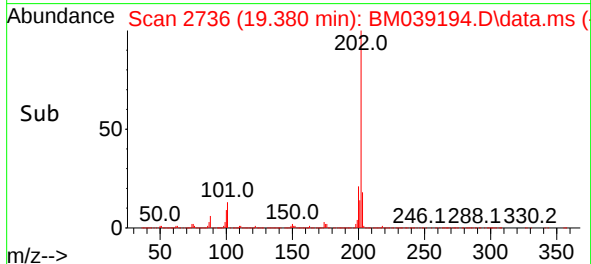
Instrument :
BNA_M
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Tgt Ion:202 Resp: 2205753
Ion Ratio Lower Upper
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101 12.9 0.0 31.7
203 17.8 0.0 37.6

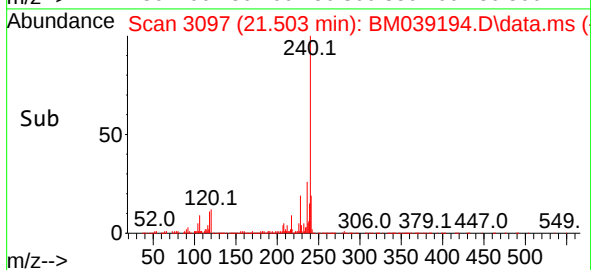
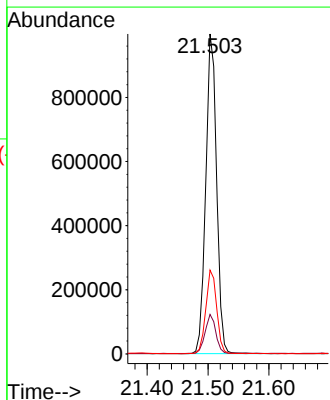
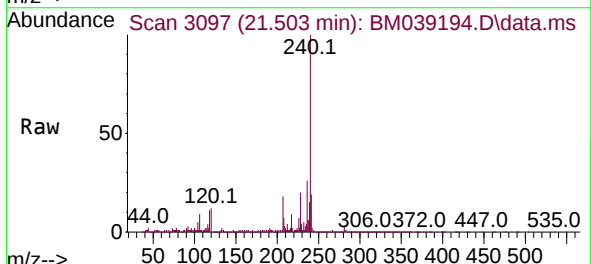
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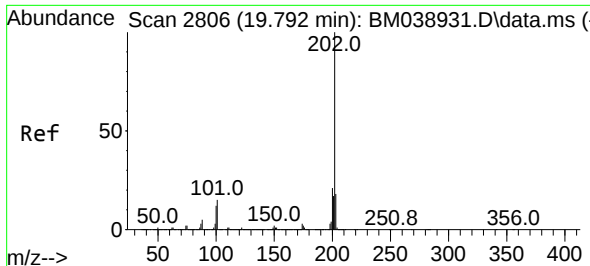
Reviewed By :Christian Giraldo 03/29/2023
Supervised By :Jagrut Upadhyay 03/29/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.503 min Scan# 3097
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

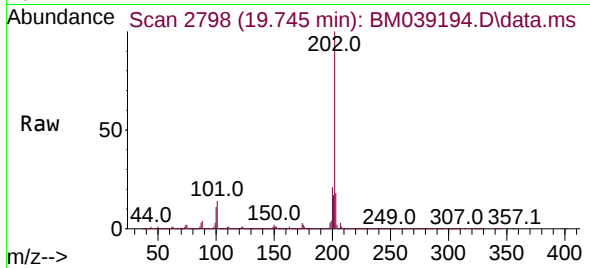
Tgt Ion:240 Resp: 1231400
Ion Ratio Lower Upper
240 100
120 12.3 9.2 13.8
236 26.2 20.8 31.2





#78
Pyrene
Concen: 20.506 ng
RT: 19.745 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

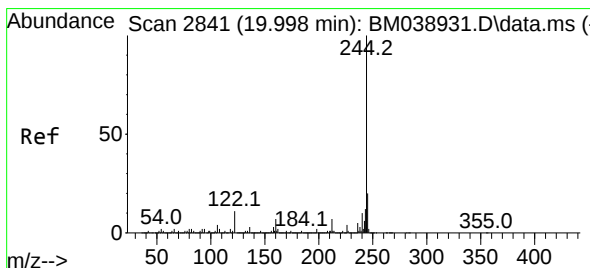
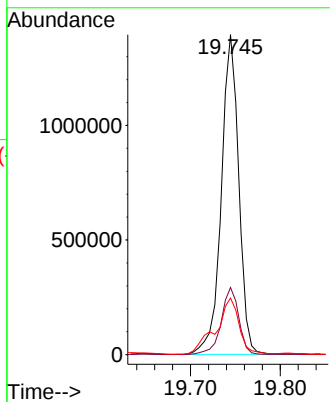
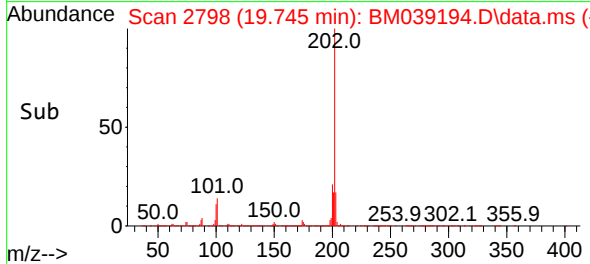
Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP2DL



Tgt Ion:202 Resp: 1896608
Ion Ratio Lower Upper
202 100
200 21.0 17.1 25.7
203 17.7 14.1 21.1

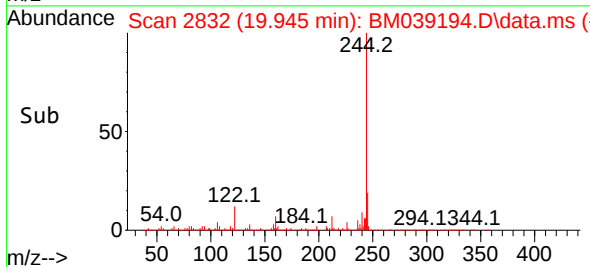
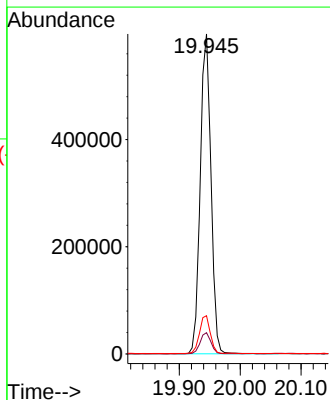
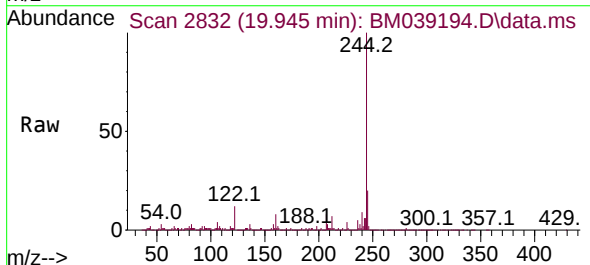
Manual Integrations
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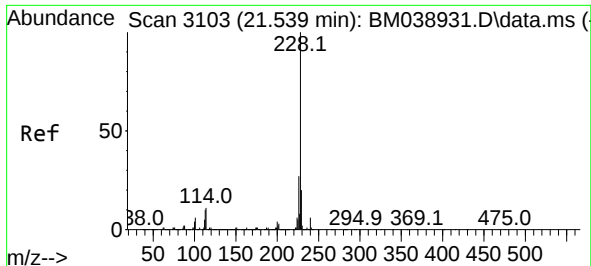
Reviewed By :Christian Giraldo 03/29/2023
Supervised By :Jagrut Upadhyay 03/29/2023



#79
Terphenyl-d14
Concen: 10.779 ng
RT: 19.945 min Scan# 2832
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion:244 Resp: 725957
Ion Ratio Lower Upper
244 100
212 6.7 5.5 8.3
122 11.9 9.0 13.4





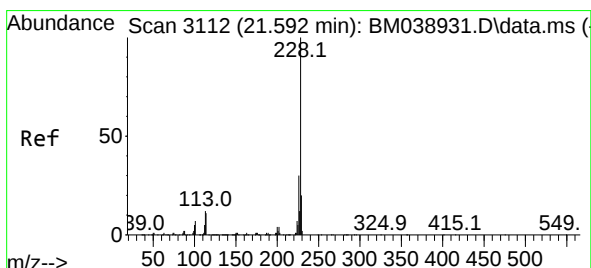
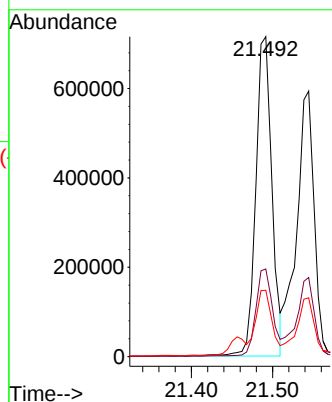
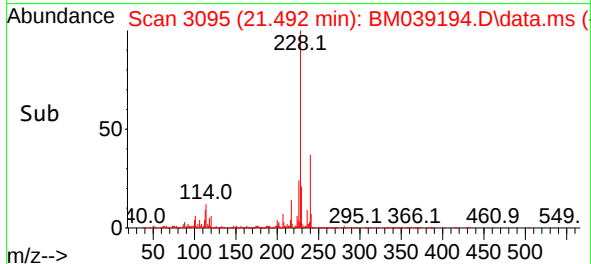
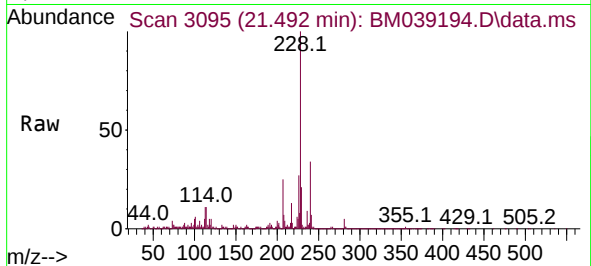
#81
Benzo(a)anthracene
Concen: 11.074 ng
RT: 21.492 min Scan# 30
Delta R.T. 0.000 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP2DL

Tgt Ion:228 Resp: 982025
Ion Ratio Lower Upper
228 100
226 27.4 21.4 32.2
229 20.7 15.7 23.5

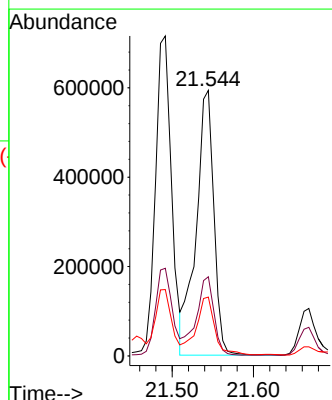
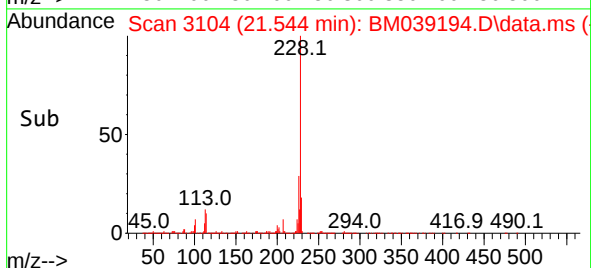
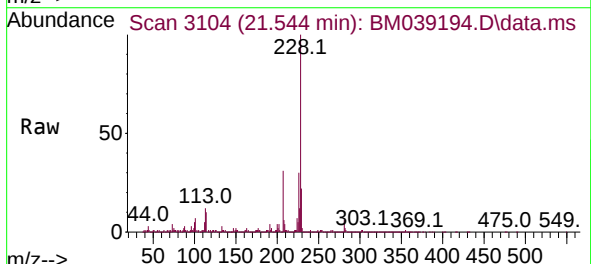
Manual Integrations
APPROVED

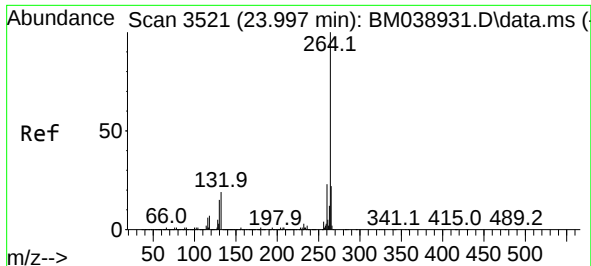
Reviewed By :Christian Giraldo 03/29/2023
Supervised By :Jagrut Upadhyay 03/29/2023



#83
Chrysene
Concen: 10.474 ng m
RT: 21.544 min Scan# 3104
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

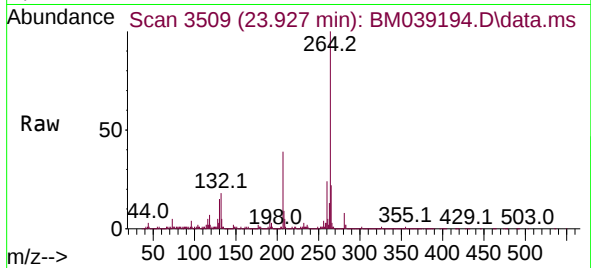
Tgt Ion:228 Resp: 903337
Ion Ratio Lower Upper
228 100
226 29.8 24.0 36.0
229 22.2 16.0 24.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 23.927 min Scan# 31
Delta R.T. 0.000 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

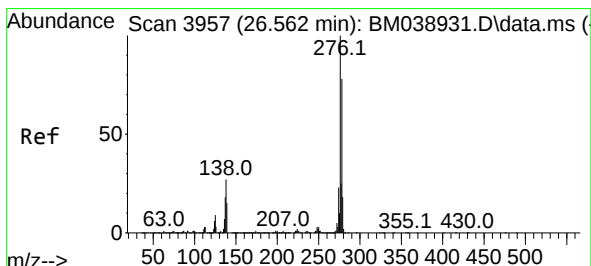
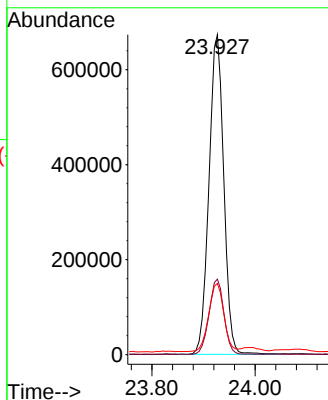
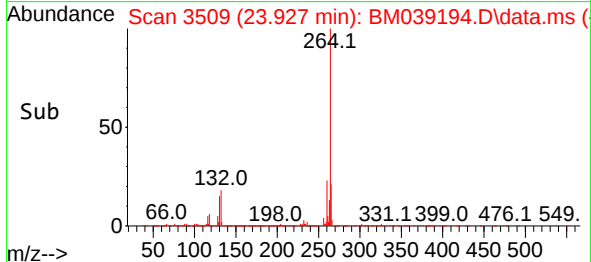
Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP2DL



Tgt Ion:264 Resp: 1338898
Ion Ratio Lower Upper
264 100
260 23.6 18.7 28.1
265 22.2 17.9 26.9

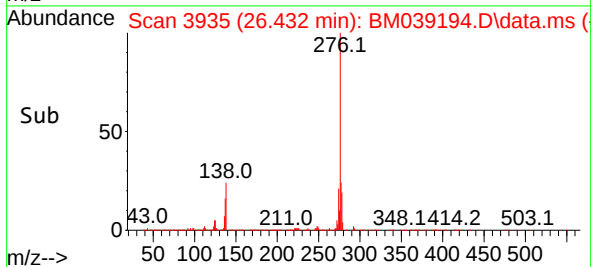
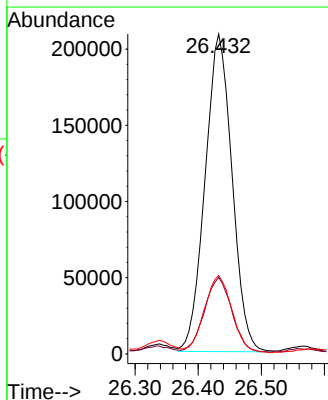
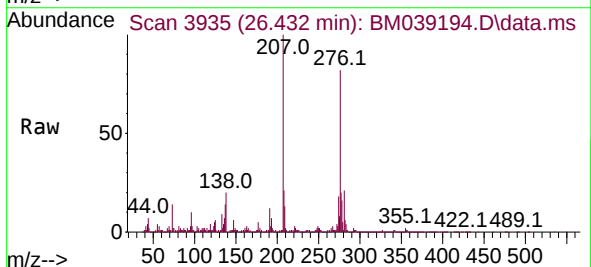
Manual Integrations
APPROVED

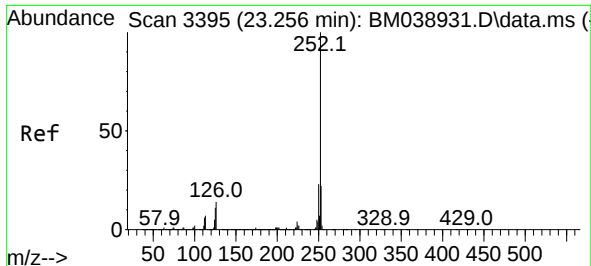
Reviewed By :Christian Giraldo 03/29/2023
Supervised By :Jagrut Upadhyay 03/29/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 6.072 ng
RT: 26.432 min Scan# 3935
Delta R.T. -0.024 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion:276 Resp: 618572
Ion Ratio Lower Upper
276 100
138 23.7 22.1 33.1
277 24.9 20.1 30.1





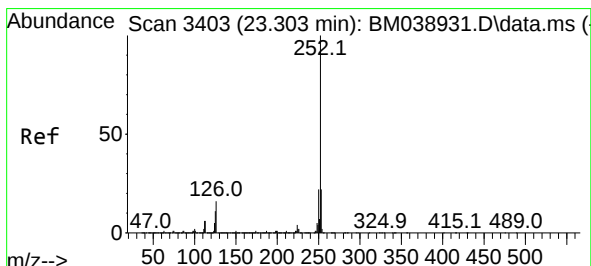
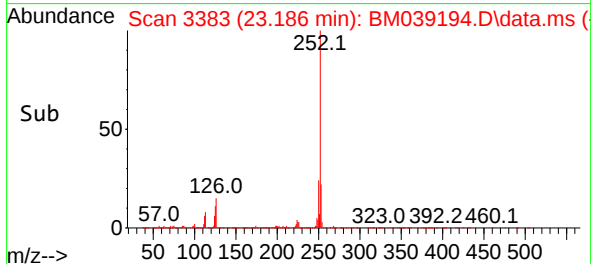
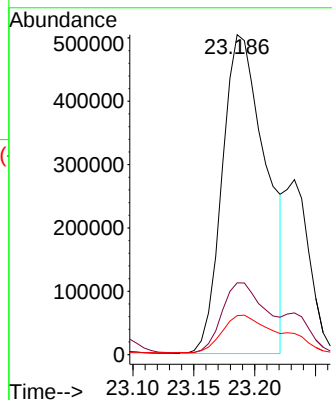
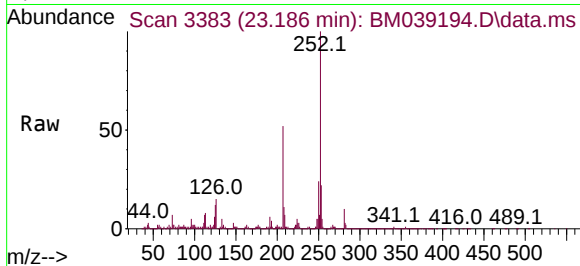
#88
Benzo(b)fluoranthene
Concen: 14.738 ng
RT: 23.186 min Scan# 3391
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP2DL

Tgt Ion:252 Resp: 1260633
Ion Ratio Lower Upper
252 100
253 22.4 17.6 26.4
125 12.2 8.8 13.2

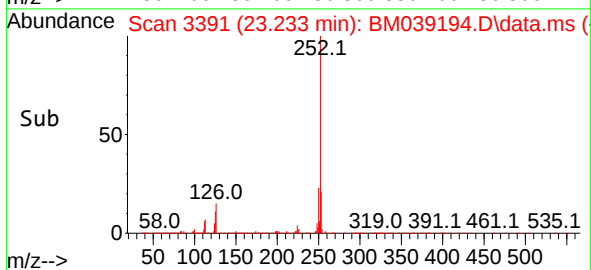
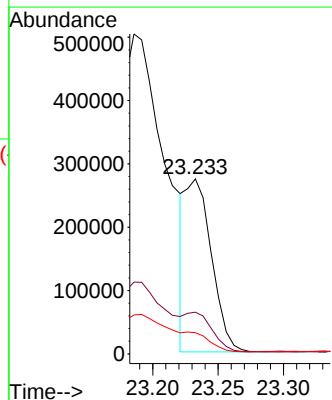
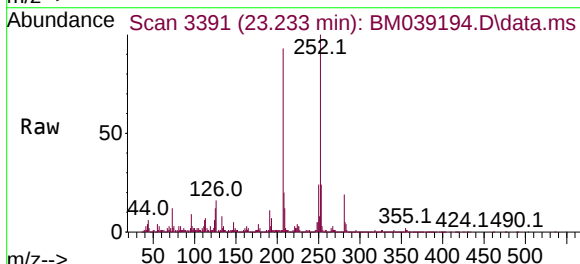
Manual Integrations
APPROVED

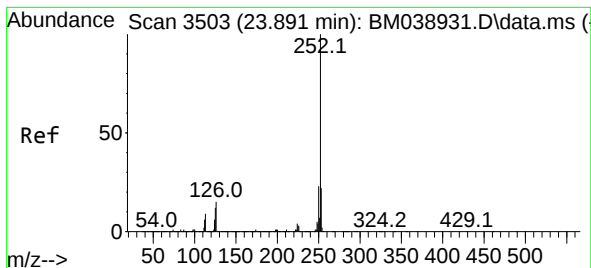
Reviewed By :Christian Giraldo 03/29/2023
Supervised By :Jagrut Upadhyay 03/29/2023



#89
Benzo(k)fluoranthene
Concen: 4.224 ng m
RT: 23.233 min Scan# 3391
Delta R.T. -0.006 min
Lab File: BM039194.D
Acq: 29 Mar 2023 00:03

Tgt Ion:252 Resp: 376005
Ion Ratio Lower Upper
252 100
253 23.8 17.5 26.3
125 12.1 8.9 13.3





#90

Benzo(a)pyrene

Concen: 10.657 ng

RT: 23.815 min Scan# 34

Delta R.T. -0.006 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP2DL

Tgt Ion:252 Resp: 877303

Ion Ratio Lower Upper

252 100

253 22.4 17.6 26.4

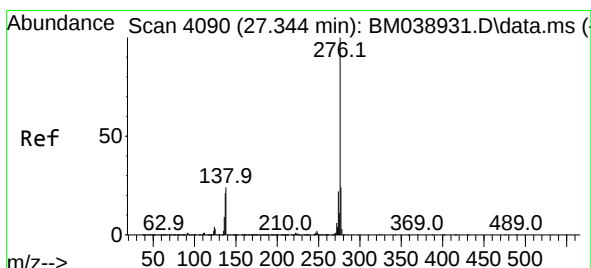
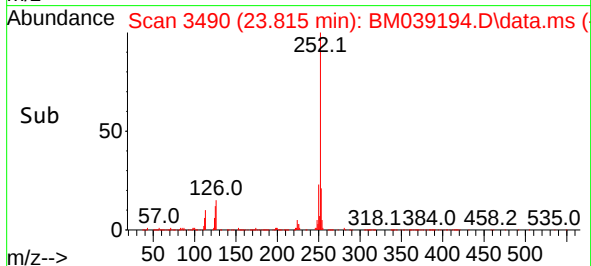
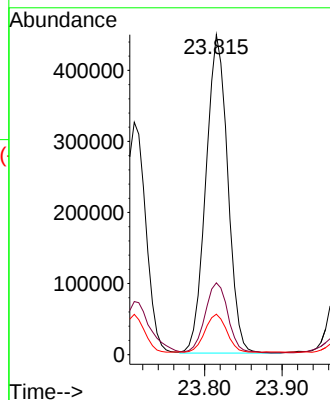
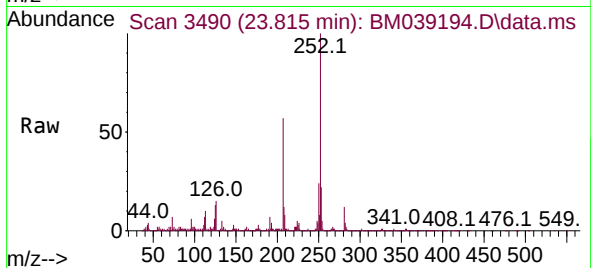
125 12.6 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/29/2023

Supervised By :Jagrut Upadhyay 03/29/2023



#92

Benzo(g,h,i)perylene

Concen: 7.475 ng

RT: 27.209 min Scan# 4067

Delta R.T. -0.018 min

Lab File: BM039194.D

Acq: 29 Mar 2023 00:03

Tgt Ion:276 Resp: 631018

Ion Ratio Lower Upper

276 100

277 24.3 19.3 28.9

138 24.1 19.0 28.6

