

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032223\
 Data File : BM039110.D
 Acq On : 23 Mar 2023 02:23
 Operator : CG/JU
 Sample : 02033-01 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 EO-1-032123

Manual Integrations
 APPROVED

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

Quant Time: Mar 23 04:29:51 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	7.969	152	403736	20.000	ng	0.00
21) Naphthalene-d8	10.780	136	1520203	20.000	ng	0.00
39) Acenaphthene-d10	14.610	164	760498	20.000	ng	0.00
64) Phenanthrene-d10	17.357	188	1459758	20.000	ng	0.00
76) Chrysene-d12	21.539	240	1181182	20.000	ng	0.00
86) Perylene-d12	23.985	264	1353225	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	1011973	38.081	ng	0.00
7) Phenol-d6	7.134	99	1235744	35.801	ng	0.00
23) Nitrobenzene-d5	9.134	82	698029	22.555	ng	0.00
42) 2,4,6-Tribromophenol	16.098	330	321196	36.509	ng	0.00
45) 2-Fluorobiphenyl	13.233	172	1432224	24.516	ng	0.00
79) Terphenyl-d14	19.974	244	1731318	26.799	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.833	128	234854	2.709	ng	# 94
37) 2-Methylnaphthalene	12.439	142	225423	3.880	ng	98
38) 1-Methylnaphthalene	12.657	142	194631	3.575	ng	# 100
49) Acenaphthylene	14.333	152	968624	12.517	ng	99
52) Acenaphthene	14.674	154	127988	2.691	ng	97
55) Dibenzofuran	15.010	168	192528	2.587	ng	# 93
58) Fluorene	15.657	166	383690	6.582	ng	96
71) Phenanthrene	17.398	178	2457705	28.687	ng	100
72) Anthracene	17.492	178	1188916	13.915	ng	99
73) Carbazole	17.762	167	217593	2.790	ng	94
75) Fluoranthene	19.415	202	4899477	54.163	ng	98
78) Pyrene	19.780	202	5392021	60.778	ng	99
81) Benzo(a)anthracene	21.521	228	3469233	40.784	ng	96
83) Chrysene	21.574	228	3199027	38.668	ng	97
87) Indeno(1,2,3-cd)pyrene	26.538	276	2611721	25.364	ng	95
88) Benzo(b)fluoranthene	23.244	252	4981881	57.625	ng	96
89) Benzo(k)fluoranthene	23.286	252	1531395m	17.021	ng	
90) Benzo(a)pyrene	23.880	252	3680246	44.231	ng	97
91) Dibenzo(a,h)anthracene	26.538	278	665532	7.632	ng	# 81
92) Benzo(g,h,i)perylene	27.326	276	2575812	30.191	ng	99

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

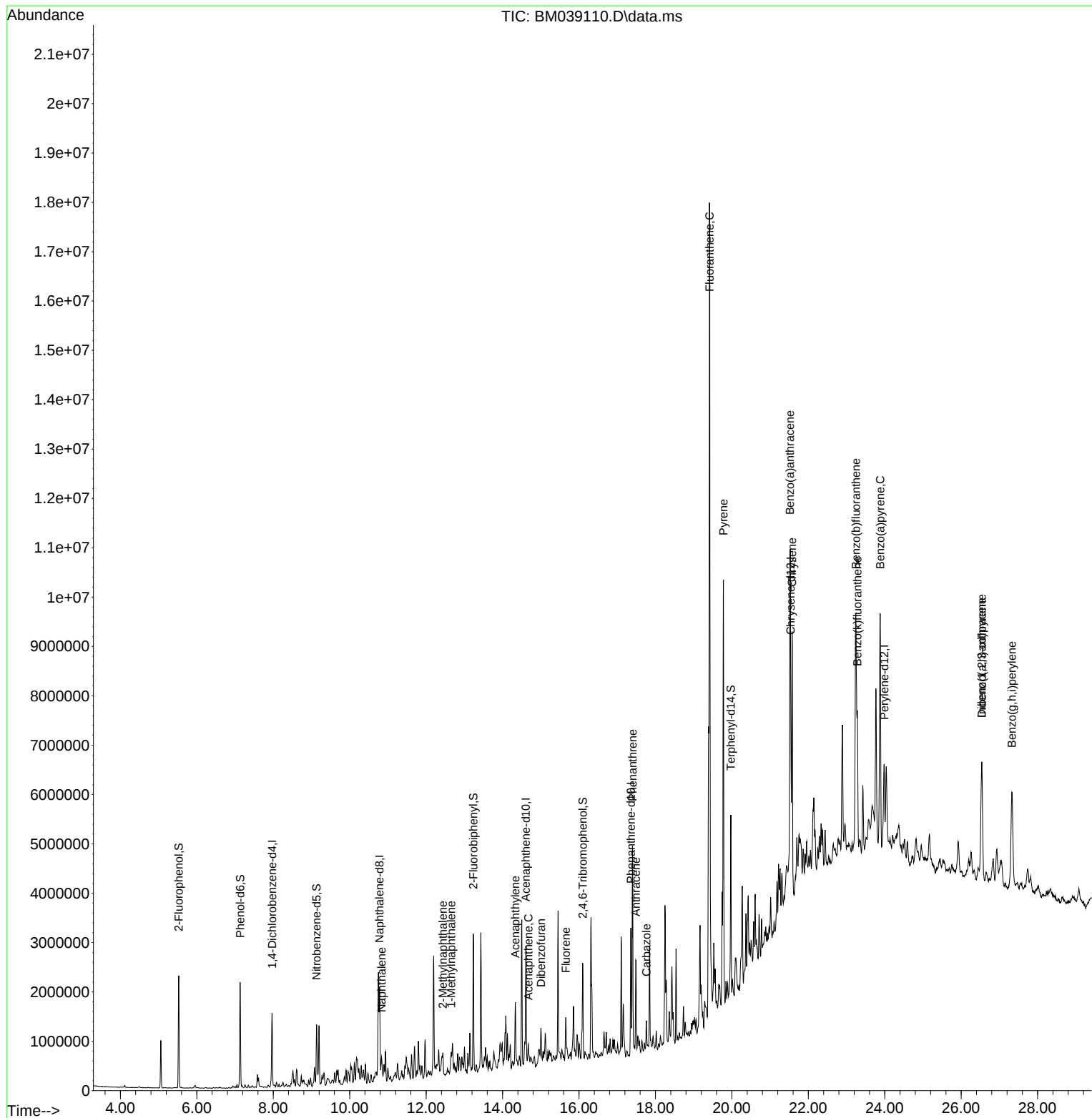
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032223\
Data File : BM039110.D
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ALS Vial : 19 Sample Multiplier: 1

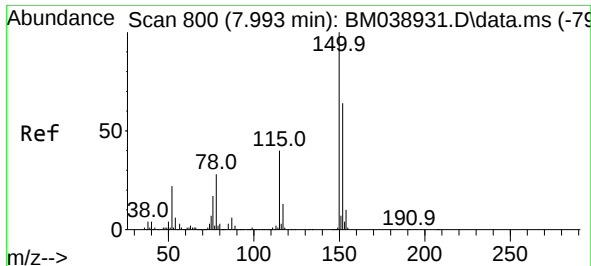
Instrument :
BNA_M
ClientSampleId :
EO-1-032123

Quant Time: Mar 23 04:29:51 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
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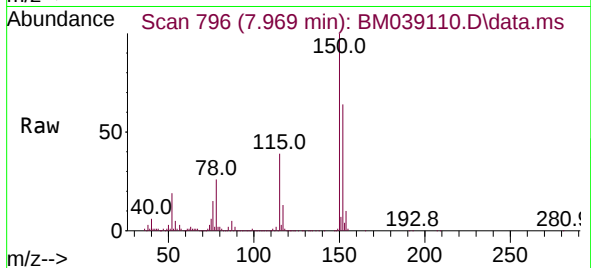
Reviewed By : Christian Giraldo 03/23/2023
Supervised By : Jagrut Upadhyay 03/23/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.969 min Scan# 79
Delta R.T. -0.000 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

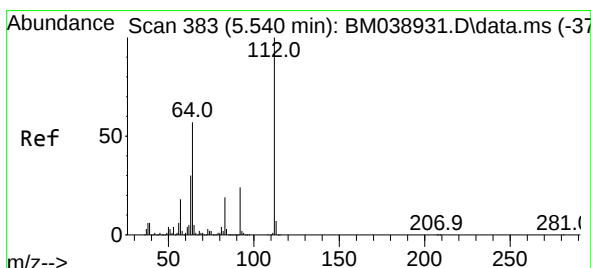
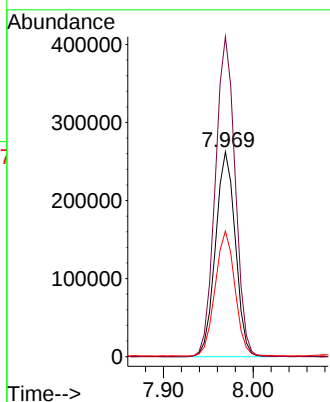
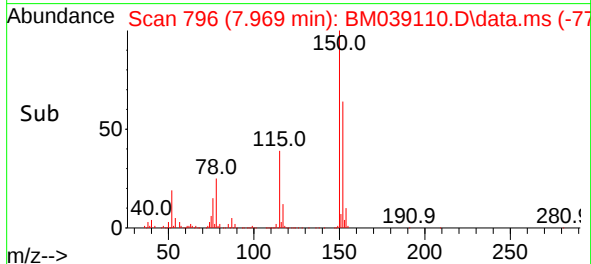
Instrument :
BNA_M
ClientSampleId :
EO-1-032123



Tgt Ion:152 Resp: 403736
Ion Ratio Lower Upper
152 100
150 156.3 125.1 187.7
115 61.3 49.6 74.4

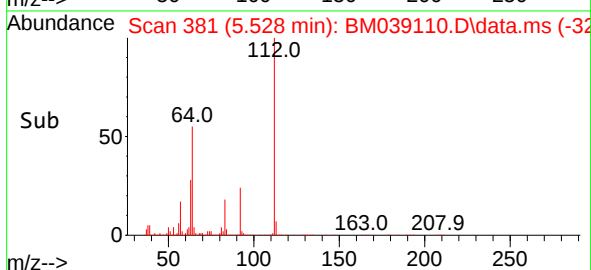
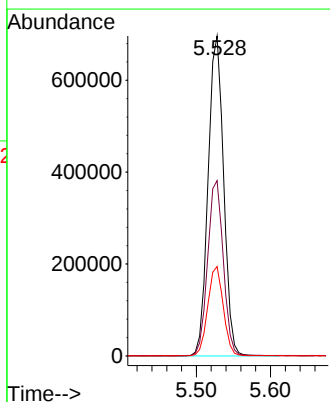
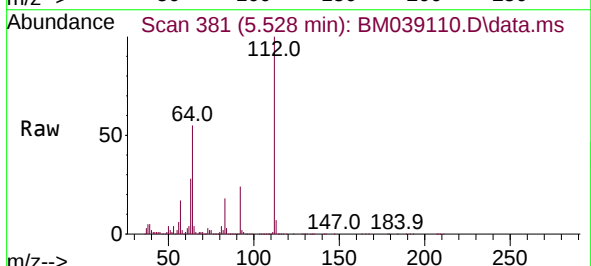
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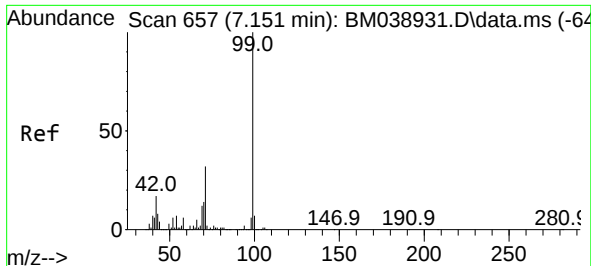
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#5
2-Fluorophenol
Concen: 38.081 ng
RT: 5.528 min Scan# 381
Delta R.T. 0.006 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

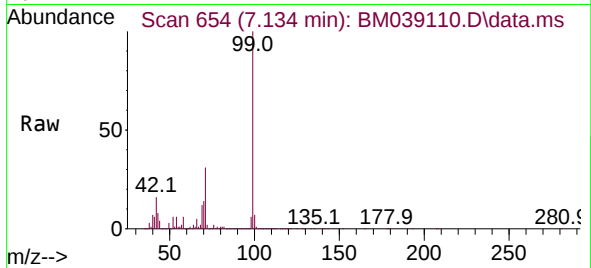
Tgt Ion:112 Resp: 1011973
Ion Ratio Lower Upper
112 100
64 54.8 45.9 68.9
63 27.9 23.8 35.8





#7
Phenol-d6
Concen: 35.801 ng
RT: 7.134 min Scan# 61
Delta R.T. 0.006 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

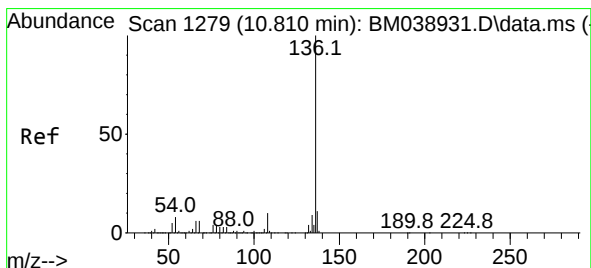
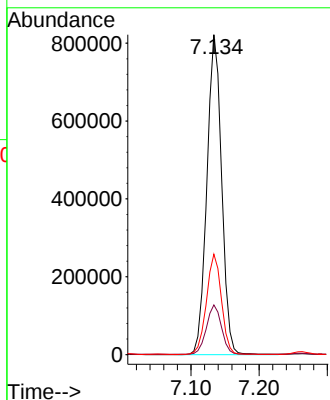
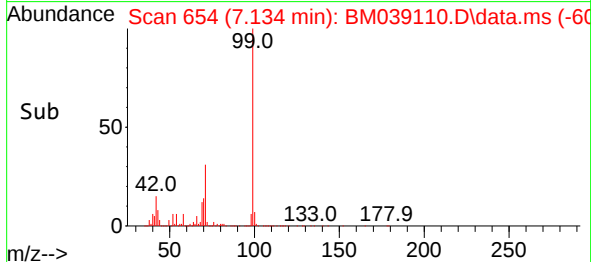
Instrument :
BNA_M
ClientSampleId :
EO-1-032123



Tgt Ion: 99 Resp: 1235744
Ion Ratio Lower Upper
99 100
42 15.5 13.5 20.3
71 31.4 25.6 38.4

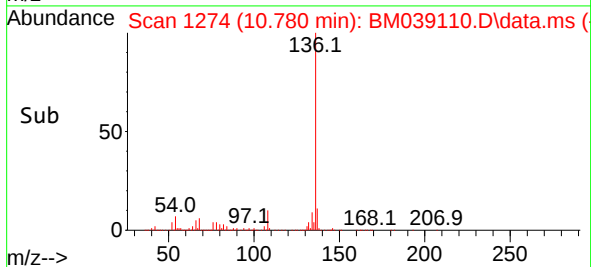
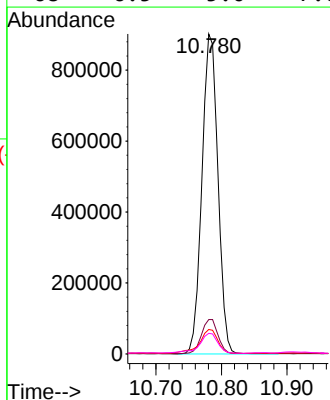
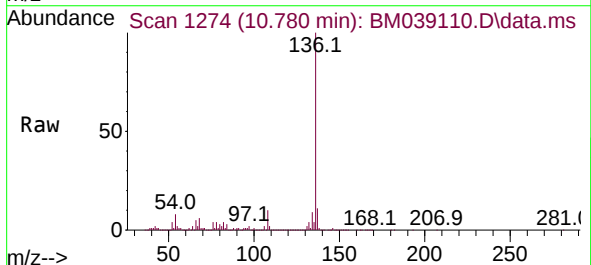
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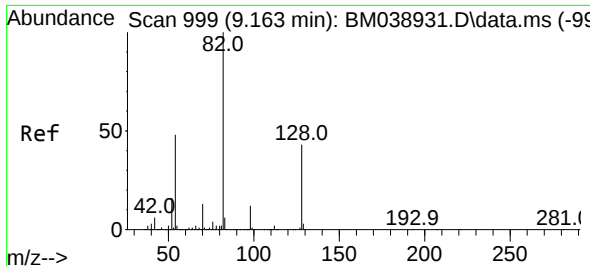
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.780 min Scan# 1274
Delta R.T. 0.000 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

Tgt Ion:136 Resp: 1520203
Ion Ratio Lower Upper
136 100
137 10.7 8.7 13.1
54 7.6 6.3 9.5
68 6.5 5.0 7.6





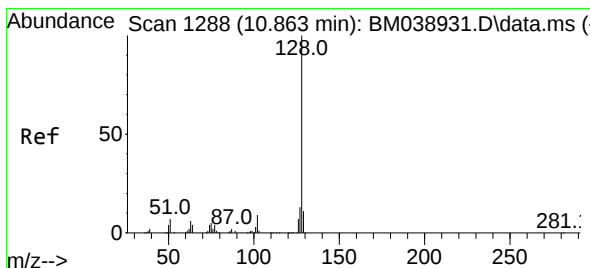
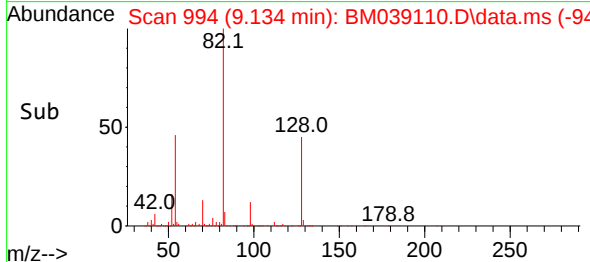
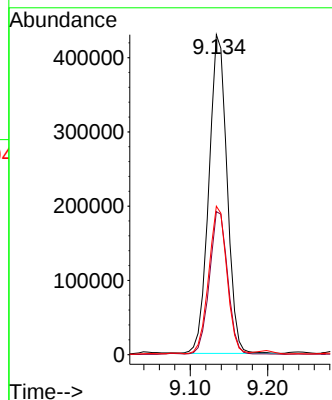
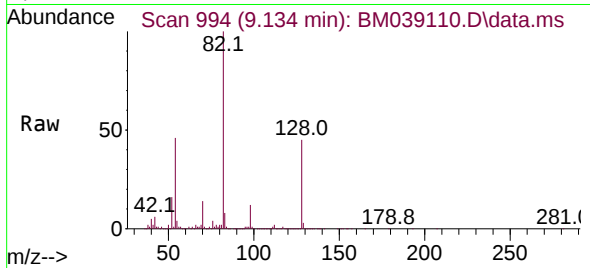
#23
Nitrobenzene-d5
Concen: 22.555 ng
RT: 9.134 min Scan# 999
Delta R.T. -0.006 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

Instrument :
BNA_M
ClientSampleId :
EO-1-032123

Tgt Ion: 82 Resp: 698029
Ion Ratio Lower Upper
82 100
128 44.7 34.4 51.6
54 46.4 38.8 58.2

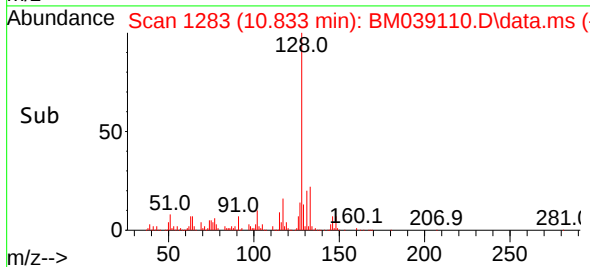
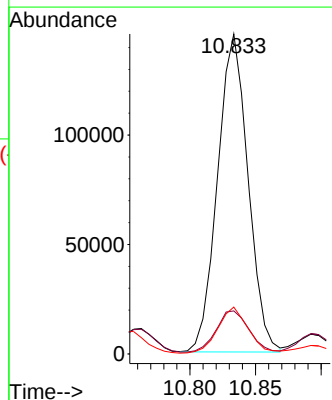
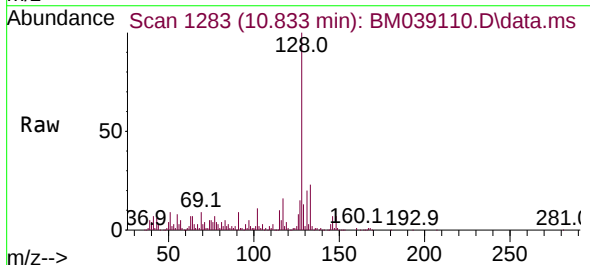
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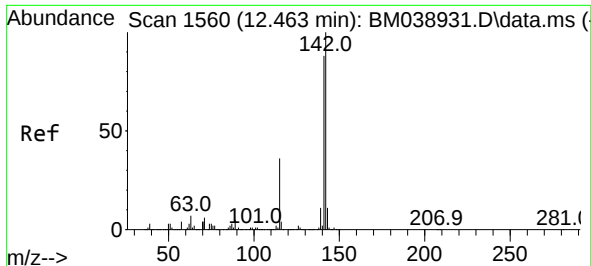
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#31
Naphthalene
Concen: 2.709 ng
RT: 10.833 min Scan# 1283
Delta R.T. 0.000 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

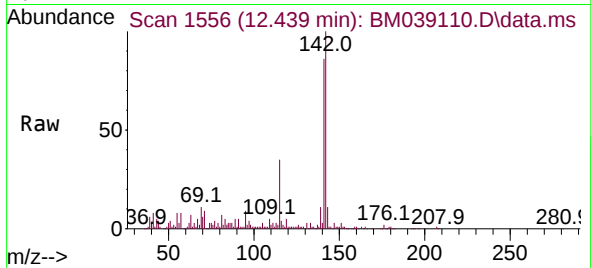
Tgt Ion:128 Resp: 234854
Ion Ratio Lower Upper
128 100
129 13.4 8.6 13.0#
127 14.6 10.2 15.4





#37
2-Methylnaphthalene
Concen: 3.880 ng
RT: 12.439 min Scan# 1556
Delta R.T. 0.000 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

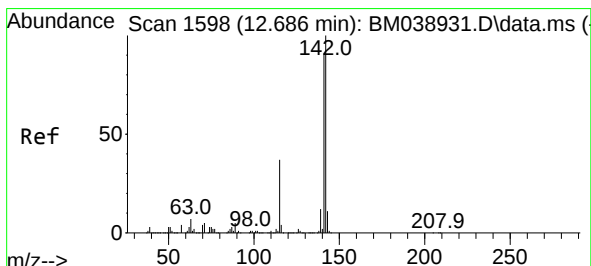
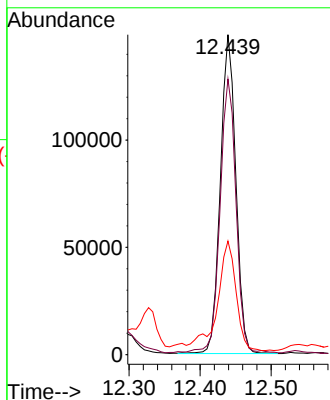
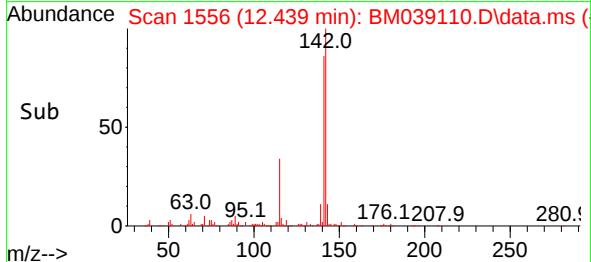
Instrument :
BNA_M
ClientSampleId :
EO-1-032123



Tgt Ion:142 Resp: 225423
Ion Ratio Lower Upper
142 100
141 86.1 70.6 106.0
115 35.5 28.5 42.7

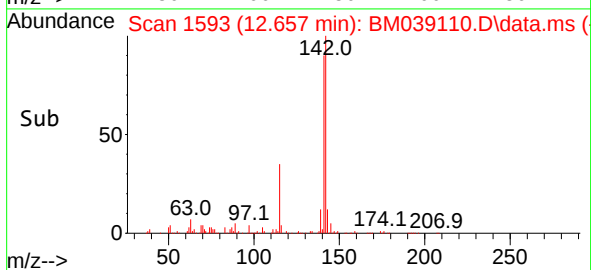
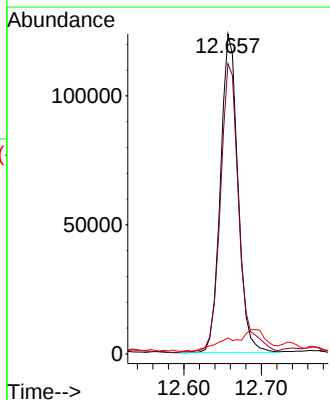
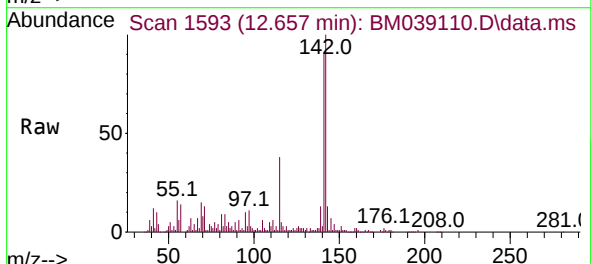
Manual Integrations
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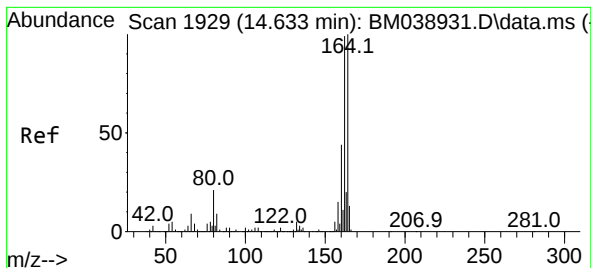
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#38
1-Methylnaphthalene
Concen: 3.575 ng
RT: 12.657 min Scan# 1593
Delta R.T. 0.000 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

Tgt Ion:142 Resp: 194631
Ion Ratio Lower Upper
142 100
141 90.7 72.8 109.2
116 5.1 3.0 4.4#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.610 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BM039110.D

Acq: 23 Mar 2023 02:23

Instrument :

BNA_M

ClientSampleId :

EO-1-032123

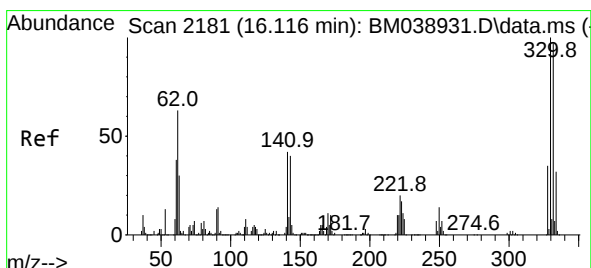
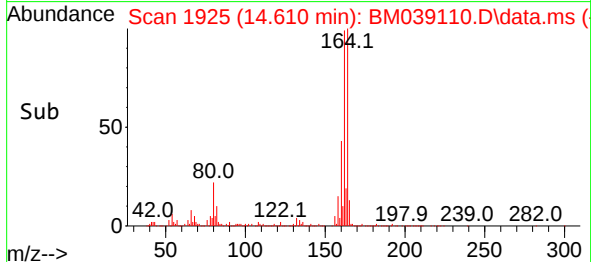
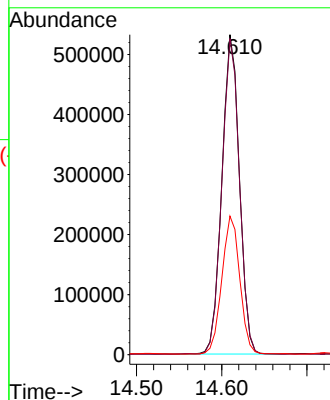
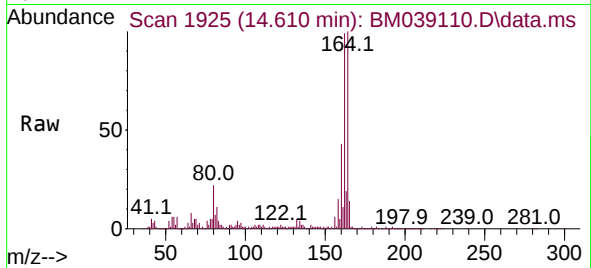
Tgt Ion:164	Resp: 760498
Ion Ratio	Lower Upper
164	100
162	98.8 79.2 118.8
160	43.3 35.5 53.3

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 36.509 ng

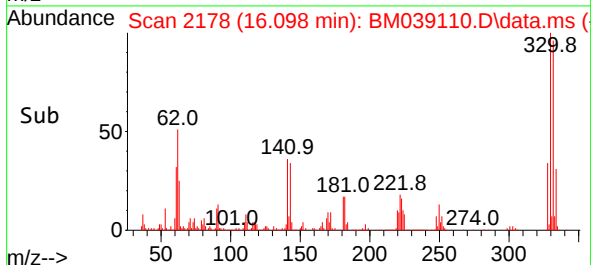
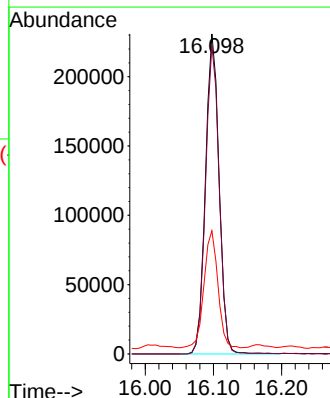
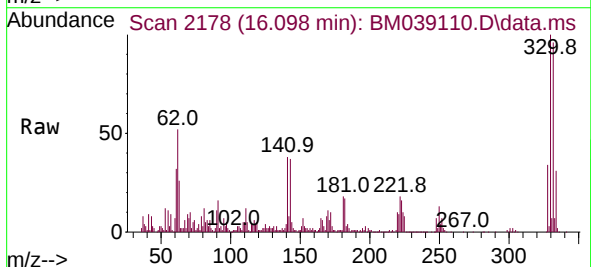
RT: 16.098 min Scan# 2178

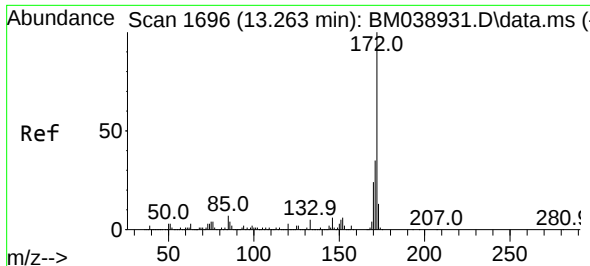
Delta R.T. 0.000 min

Lab File: BM039110.D

Acq: 23 Mar 2023 02:23

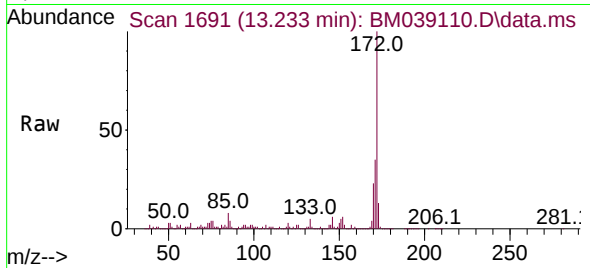
Tgt Ion:330	Resp: 321196
Ion Ratio	Lower Upper
330	100
332	96.1 77.4 116.0
141	37.8 32.2 48.4





#45
2-Fluorobiphenyl
Concen: 24.516 ng
RT: 13.233 min Scan# 1696
Delta R.T. 0.000 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

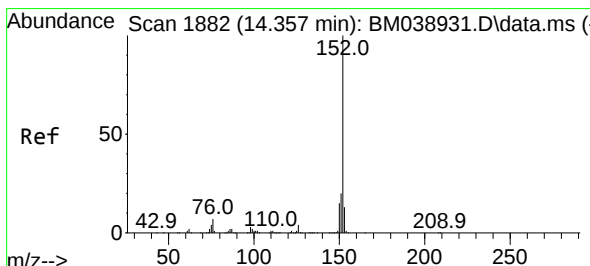
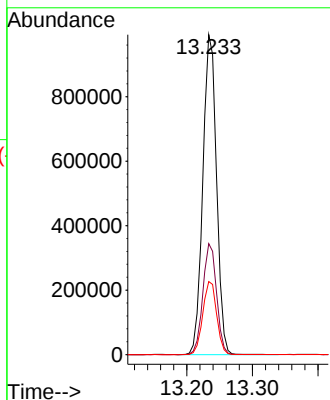
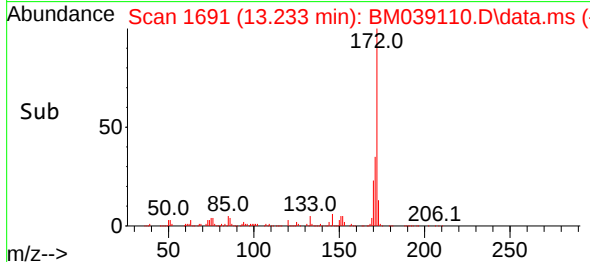
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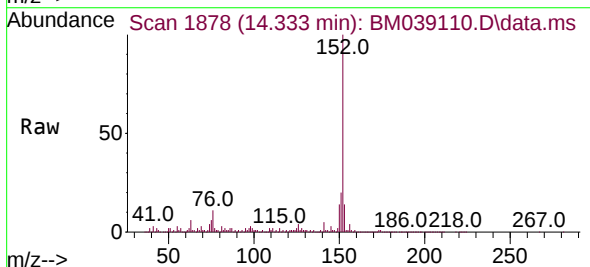
Tgt Ion:172 Resp: 1432224
Ion Ratio Lower Upper
172 100
171 34.7 28.2 42.2
170 22.8 19.1 28.7

Manual Integrations
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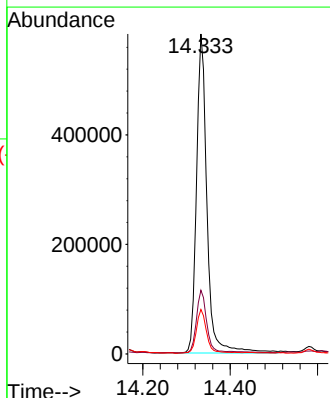
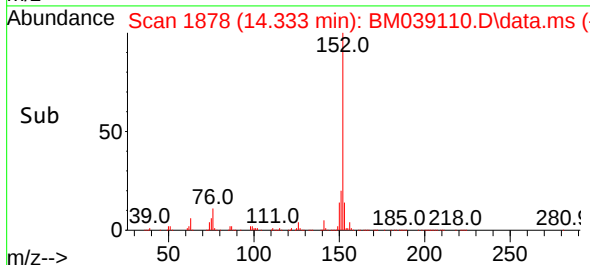
Reviewed By :Christian Giraldo 03/23/2023
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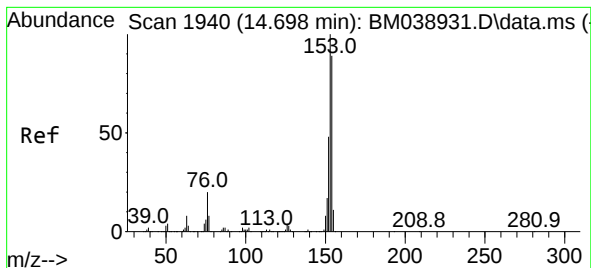


#49
Acenaphthylene
Concen: 12.517 ng
RT: 14.333 min Scan# 1878
Delta R.T. -0.000 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23



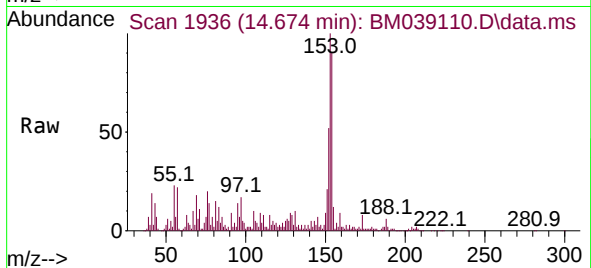
Tgt Ion:152 Resp: 968624
Ion Ratio Lower Upper
152 100
151 19.9 15.8 23.8
153 13.9 10.4 15.6





#52
Acenaphthene
Concen: 2.691 ng
RT: 14.674 min Scan# 1936
Delta R.T. 0.000 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

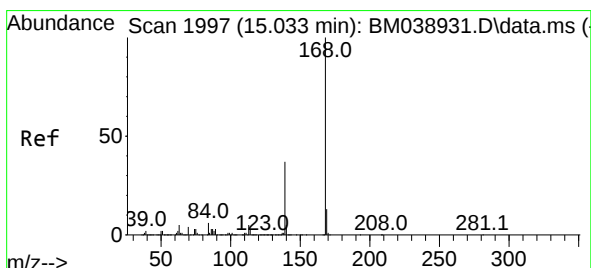
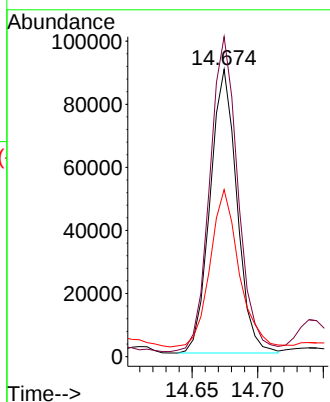
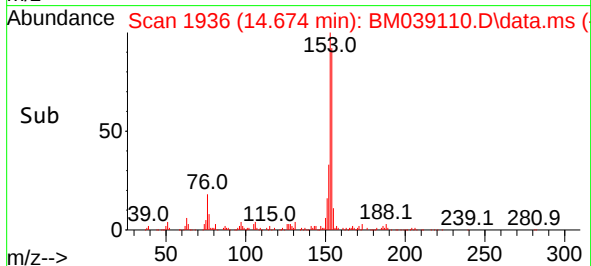
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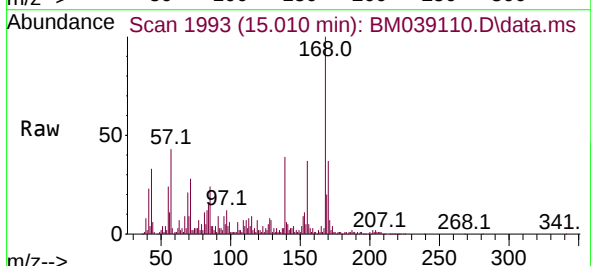
Tgt Ion:154 Resp: 127988
Ion Ratio Lower Upper
154 100
153 111.4 90.2 135.2
152 58.1 43.4 65.2

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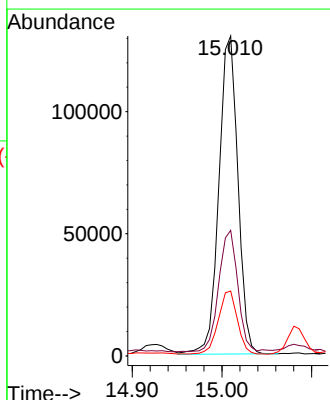
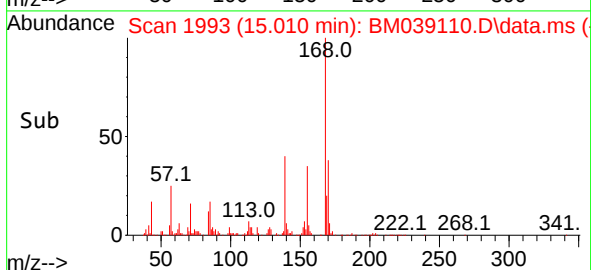
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023

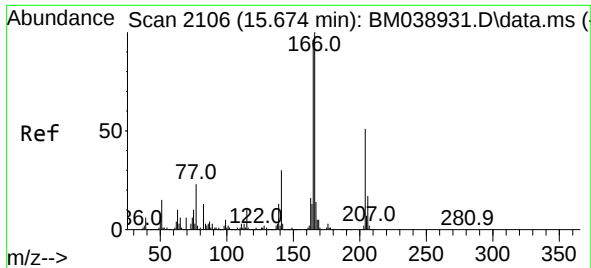


#55
Dibenzofuran
Concen: 2.587 ng
RT: 15.010 min Scan# 1993
Delta R.T. 0.006 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23



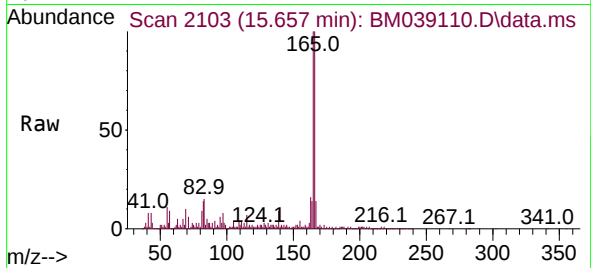
Tgt Ion:168 Resp: 192528
Ion Ratio Lower Upper
168 100
139 39.2 29.9 44.9
169 20.3 10.7 16.1#





#58
Fluorene
Concen: 6.582 ng
RT: 15.657 min Scan# 2103
Delta R.T. 0.000 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

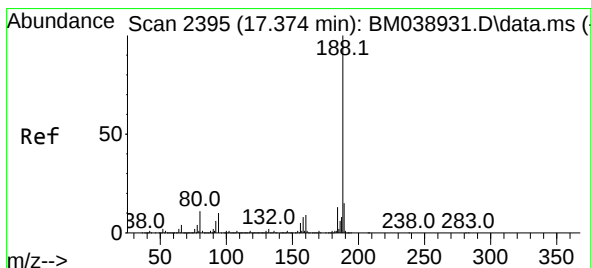
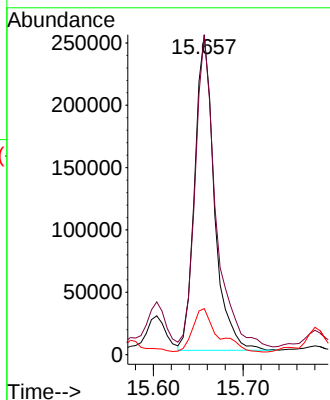
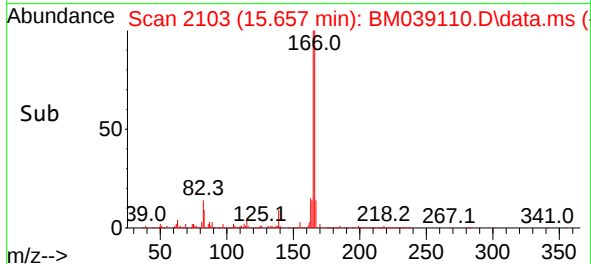
Instrument :
BNA_M
ClientSampleId :
EO-1-032123



Tgt Ion:166 Resp: 383690
Ion Ratio Lower Upper
166 100
165 100.1 77.1 115.7
167 14.4 10.9 16.3

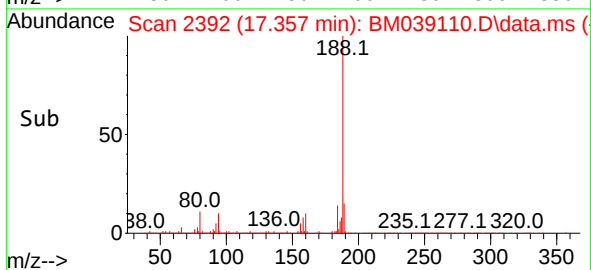
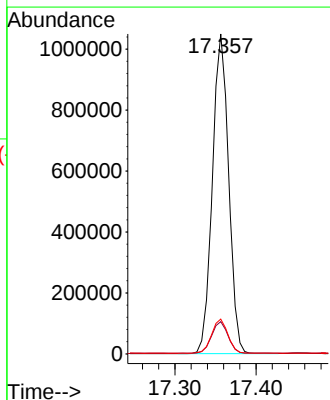
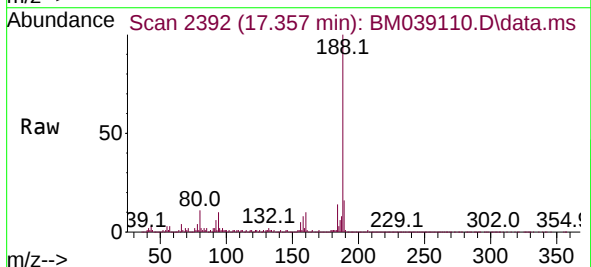
Manual Integrations
APPROVED

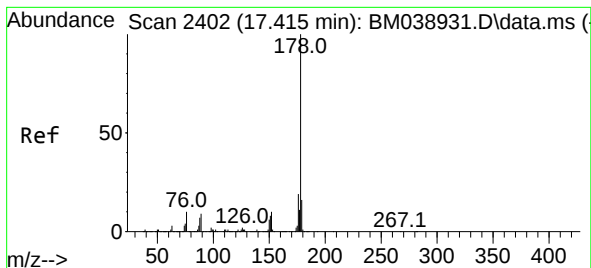
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.357 min Scan# 2392
Delta R.T. 0.006 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

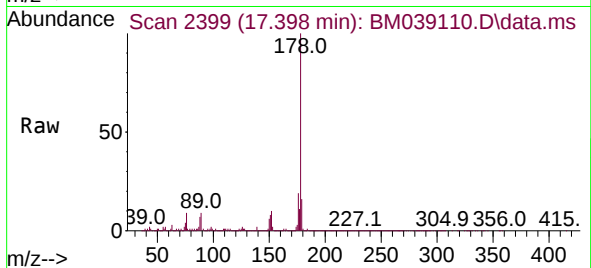
Tgt Ion:188 Resp: 1459758
Ion Ratio Lower Upper
188 100
94 10.1 7.9 11.9
80 10.9 8.5 12.7





#71
Phenanthrene
Concen: 28.687 ng
RT: 17.398 min Scan# 2415
Delta R.T. 0.006 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

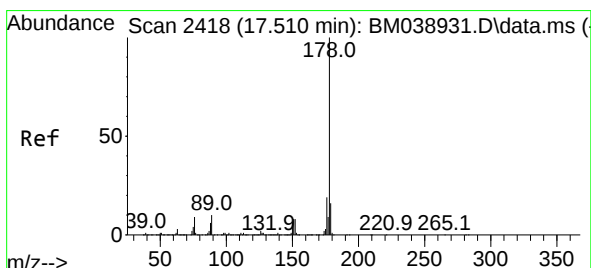
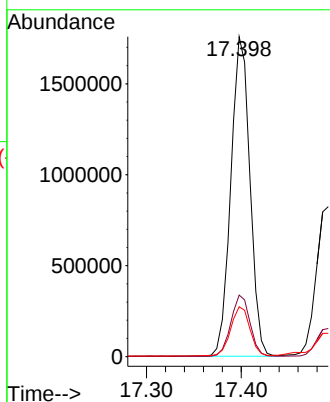
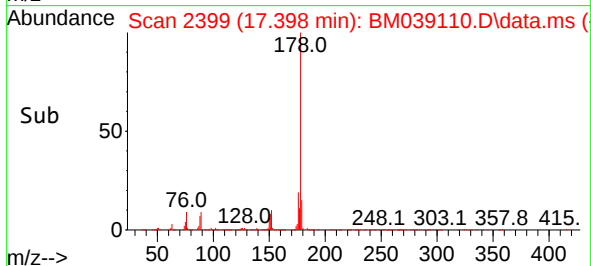
Instrument :
BNA_M
ClientSampleId :
EO-1-032123



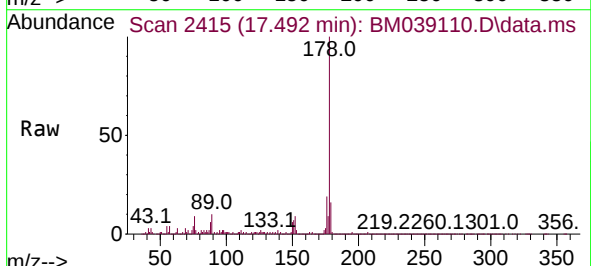
Tgt Ion:178 Resp: 2457705
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 15.6 12.5 18.7

Manual Integrations
APPROVED

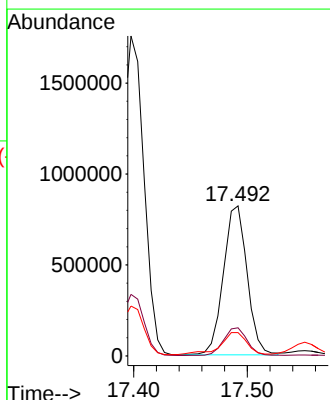
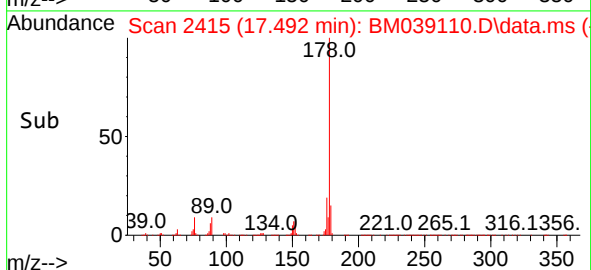
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023

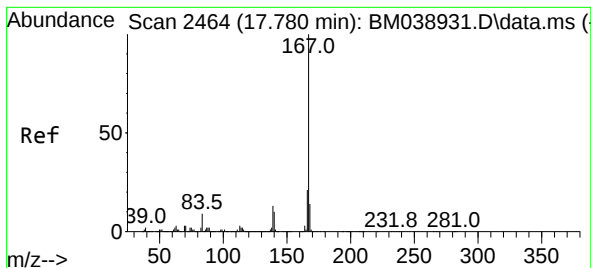


#72
Anthracene
Concen: 13.915 ng
RT: 17.492 min Scan# 2415
Delta R.T. 0.006 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23



Tgt Ion:178 Resp: 1188916
Ion Ratio Lower Upper
178 100
176 18.7 15.3 22.9
179 15.5 12.5 18.7





#73

Carbazole

Concen: 2.790 ng

RT: 17.762 min Scan# 24

Delta R.T. 0.006 min

Lab File: BM039110.D

Acq: 23 Mar 2023 02:23

Instrument :

BNA_M

ClientSampleId :

EO-1-032123

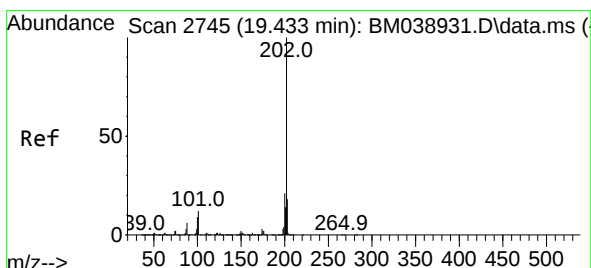
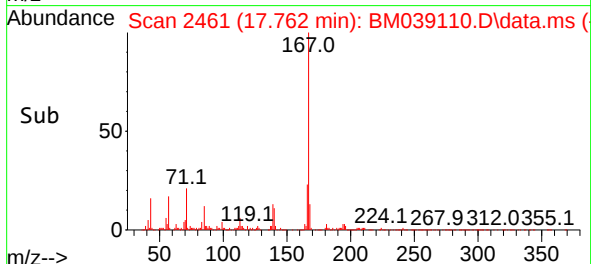
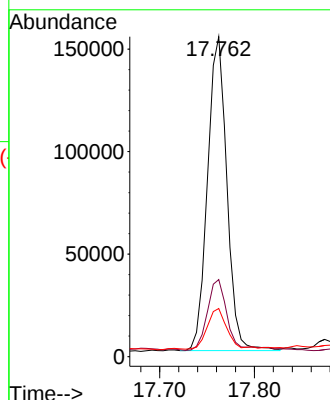
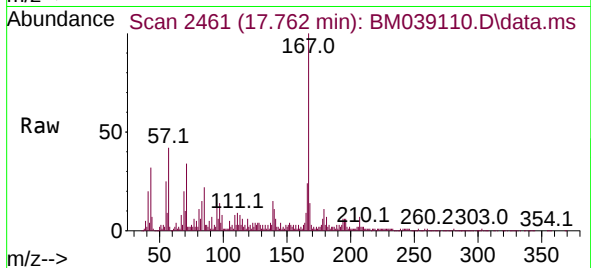
Tgt Ion:	167	Resp:	217593
Ion Ratio	Lower	Upper	
167	100		
166	24.1	17.0	25.4
139	15.0	10.3	15.5

Manual Integrations

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Reviewed By :Christian Giraldo 03/23/2023

Supervised By :Jagrut Upadhyay 03/23/2023



#75

Fluoranthene

Concen: 54.163 ng

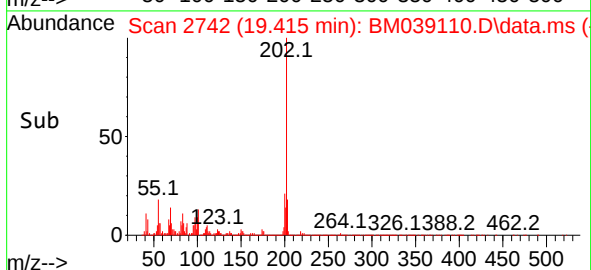
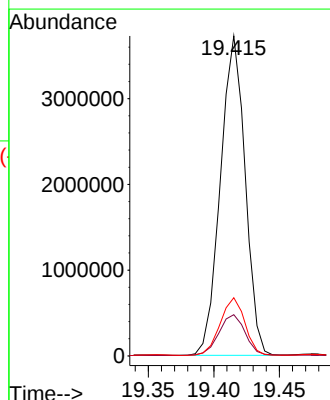
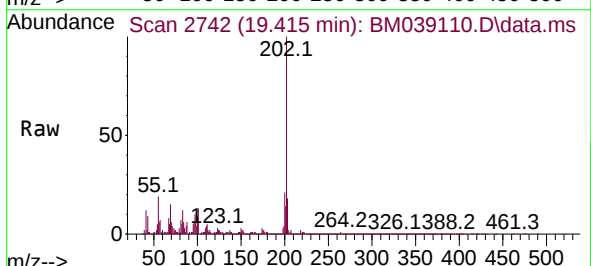
RT: 19.415 min Scan# 2742

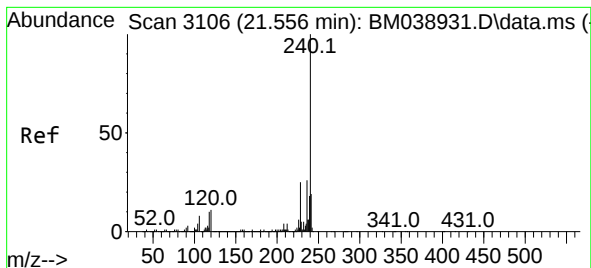
Delta R.T. 0.006 min

Lab File: BM039110.D

Acq: 23 Mar 2023 02:23

Tgt Ion:	202	Resp:	4899477
Ion Ratio	Lower	Upper	
202	100		
101	12.9	0.0	31.7
203	18.2	0.0	37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.539 min Scan# 31

Delta R.T. 0.006 min

Lab File: BM039110.D

Acq: 23 Mar 2023 02:23

Instrument :

BNA_M

ClientSampleId :

EO-1-032123

Tgt Ion:240 Resp: 1181182

Ion Ratio Lower Upper

240 100

120 12.1 9.2 13.8

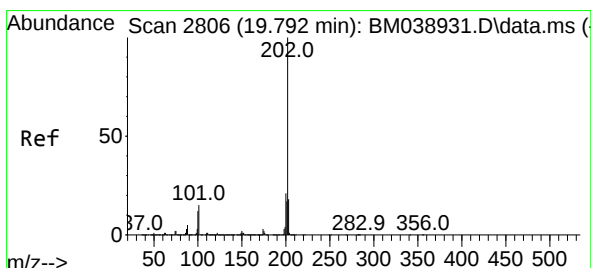
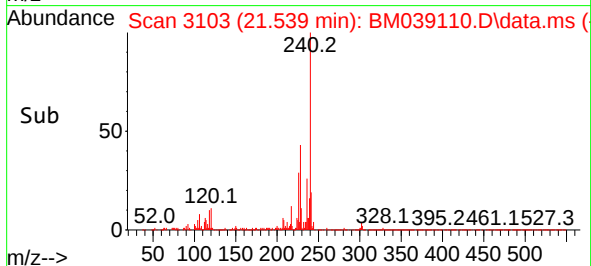
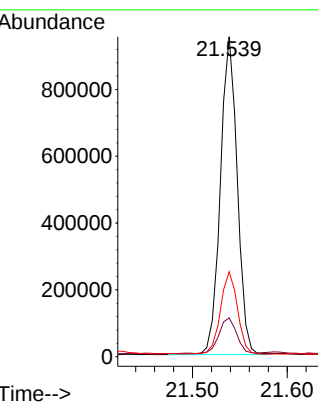
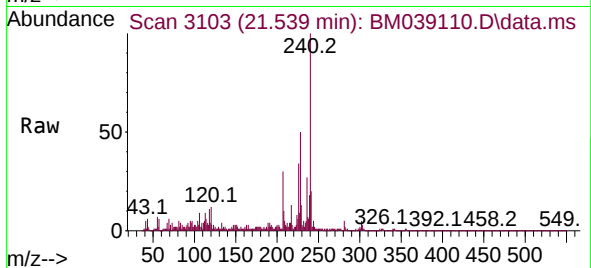
236 26.5 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/23/2023

Supervised By :Jagrut Upadhyay 03/23/2023



#78

Pyrene

Concen: 60.778 ng

RT: 19.780 min Scan# 2804

Delta R.T. 0.012 min

Lab File: BM039110.D

Acq: 23 Mar 2023 02:23

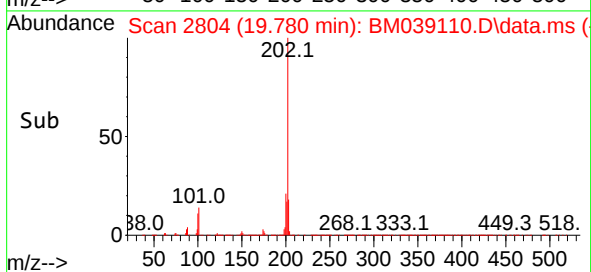
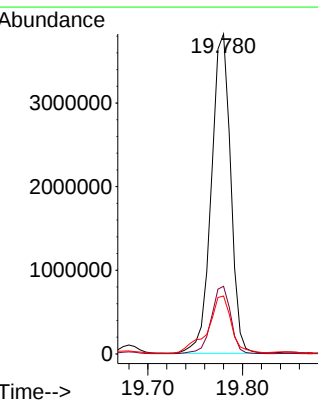
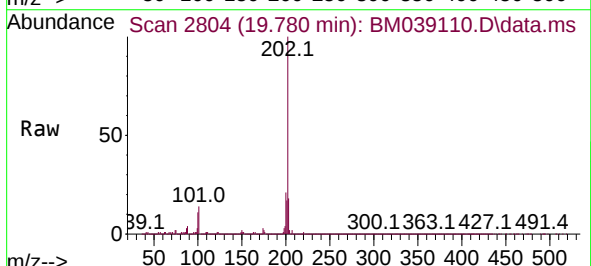
Tgt Ion:202 Resp: 5392021

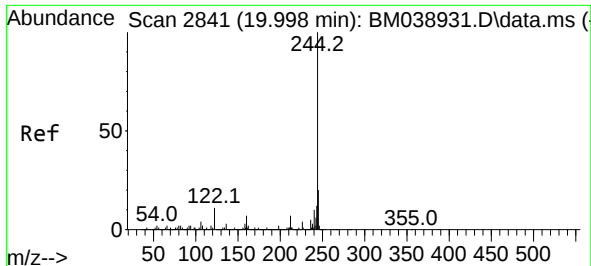
Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

203 18.1 14.1 21.1





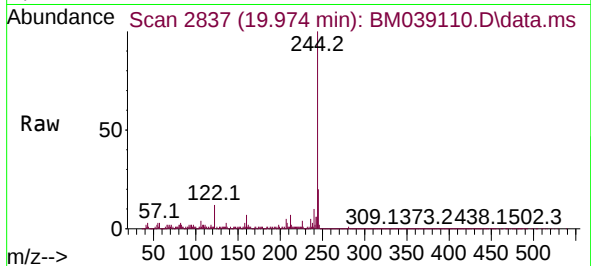
#79
 Terphenyl-d14
 Concen: 26.799 ng
 RT: 19.974 min Scan# 2841
 Delta R.T. 0.006 min
 Lab File: BM039110.D
 Acq: 23 Mar 2023 02:23

Instrument :

BNA_M

ClientSampleId :

EO-1-032123

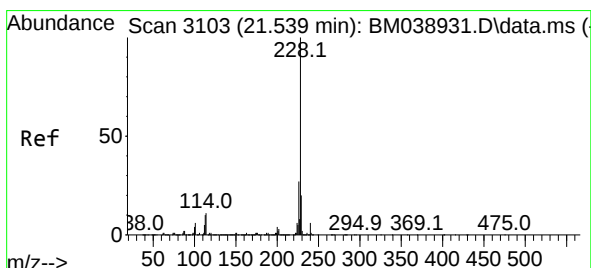
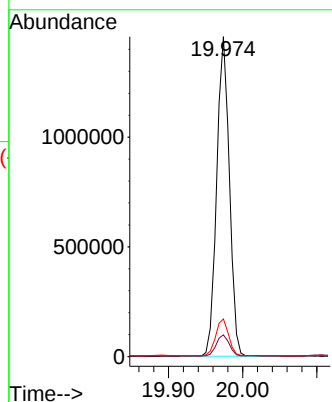
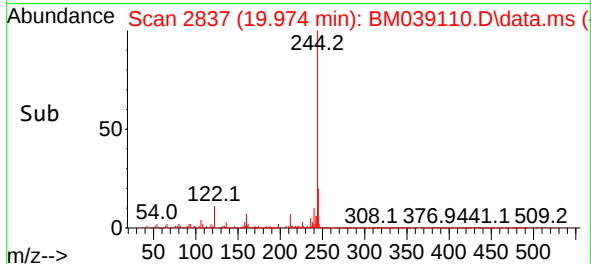


Tgt Ion:244 Resp: 1731318
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.5 8.3
 122 11.8 9.0 13.4

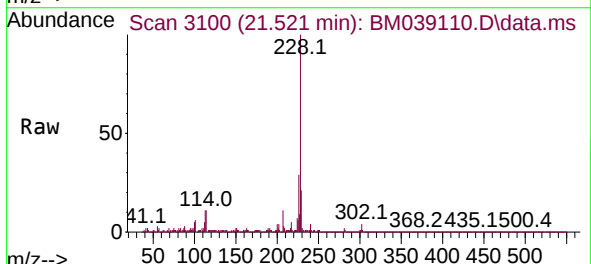
Manual Integrations

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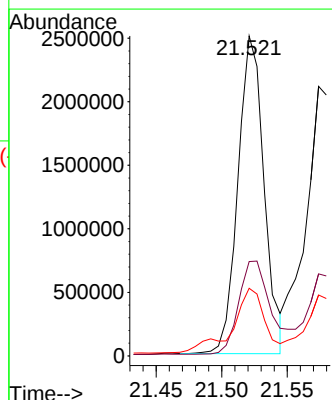
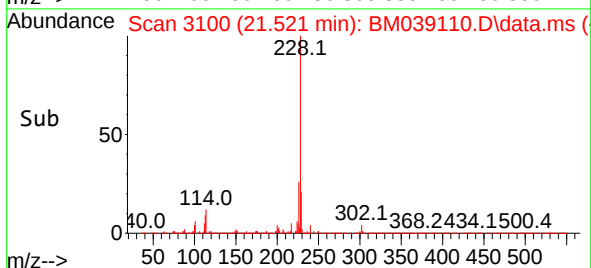
Reviewed By :Christian Giraldo 03/23/2023
 Supervised By :Jagrut Upadhyay 03/23/2023

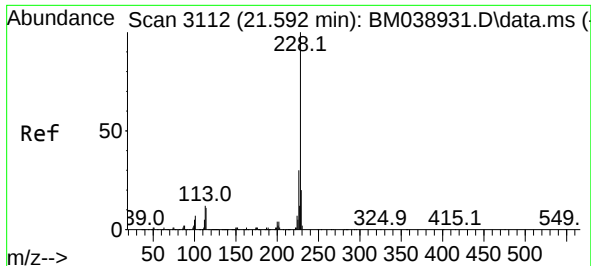


#81
 Benzo(a)anthracene
 Concen: 40.784 ng
 RT: 21.521 min Scan# 3100
 Delta R.T. 0.006 min
 Lab File: BM039110.D
 Acq: 23 Mar 2023 02:23



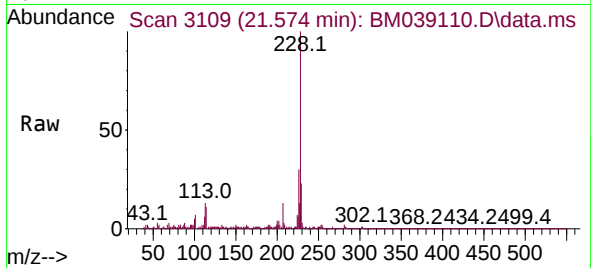
Tgt Ion:228 Resp: 3469233
 Ion Ratio Lower Upper
 228 100
 226 29.5 21.4 32.2
 229 21.1 15.7 23.5





#83
Chrysene
Concen: 38.668 ng
RT: 21.574 min Scan# 3112
Delta R.T. 0.006 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

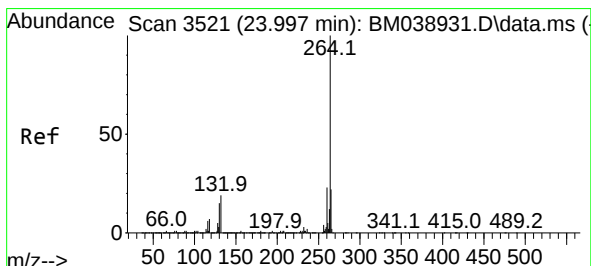
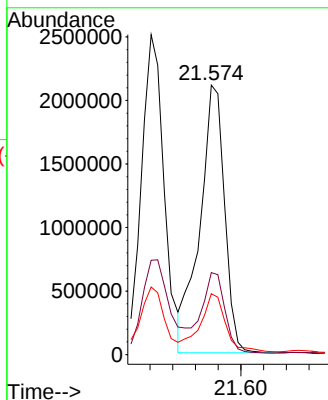
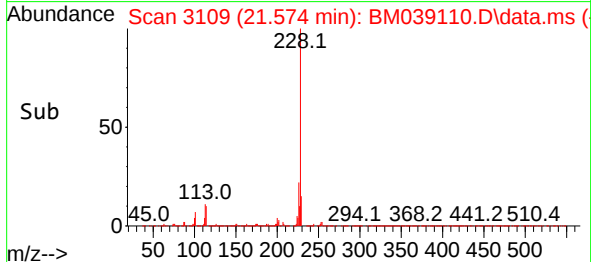
Instrument :
BNA_M
ClientSampleId :
EO-1-032123



Tgt Ion:228 Resp: 3199027
Ion Ratio Lower Upper
228 100
226 30.5 24.0 36.0
229 22.6 16.0 24.0

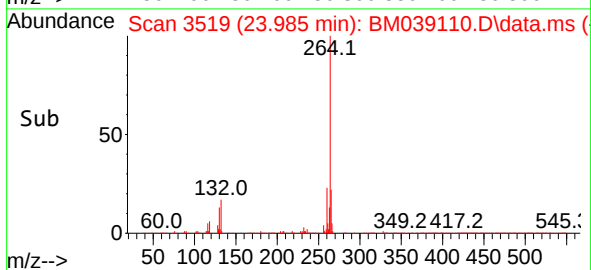
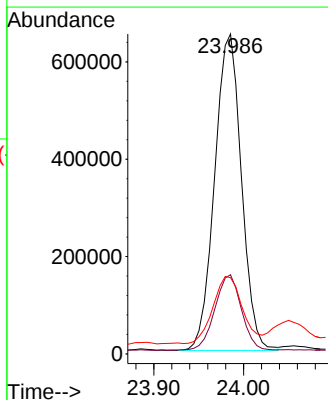
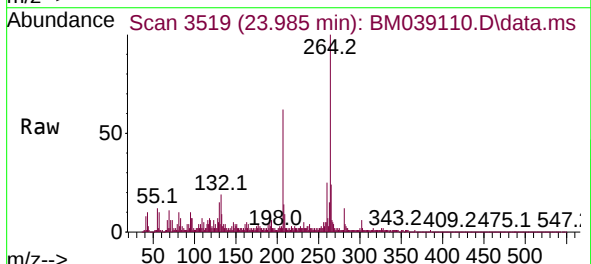
Manual Integrations
APPROVED

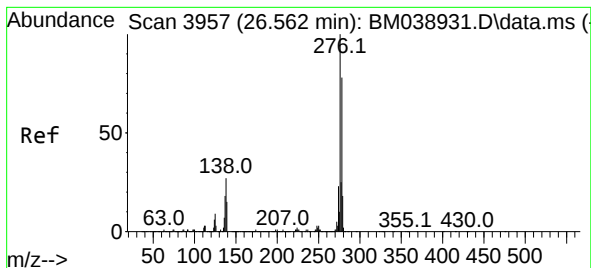
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.985 min Scan# 3519
Delta R.T. 0.024 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

Tgt Ion:264 Resp: 1353225
Ion Ratio Lower Upper
264 100
260 24.7 18.7 28.1
265 23.8 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 25.364 ng

RT: 26.538 min Scan# 3953

Delta R.T. 0.041 min

Lab File: BM039110.D

Acq: 23 Mar 2023 02:23

Instrument :

BNA_M

ClientSampleId :

EO-1-032123

Tgt Ion:276 Resp: 261172

Ion Ratio Lower Upper

276 100

138 23.1 22.1 33.1

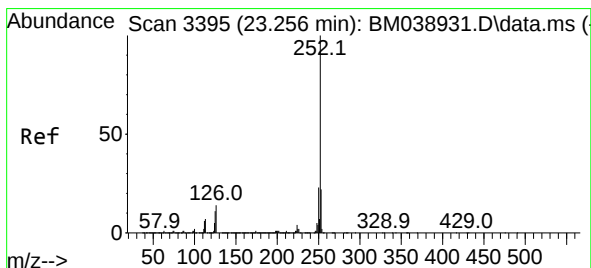
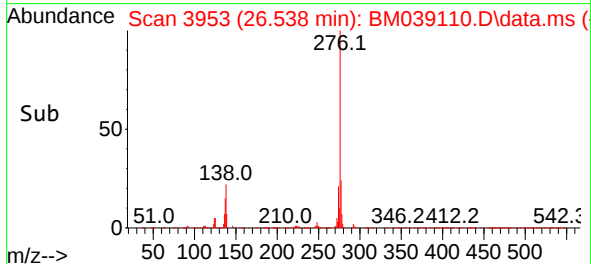
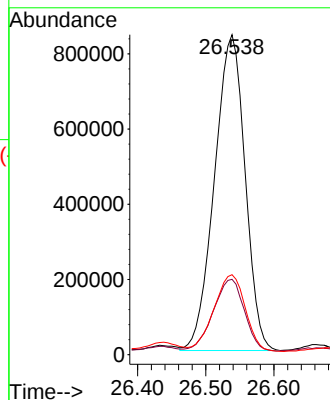
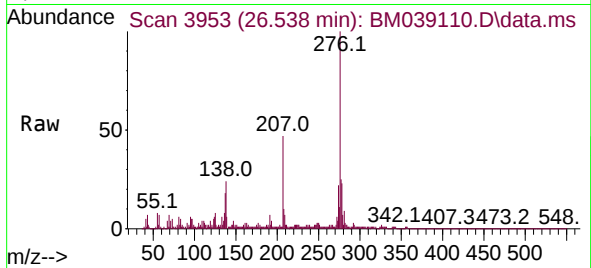
277 25.0 20.1 30.1

Manual Integrations

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Reviewed By :Christian Giraldo 03/23/2023

Supervised By :Jagrut Upadhyay 03/23/2023



#88

Benzo(b)fluoranthene

Concen: 57.625 ng

RT: 23.244 min Scan# 3393

Delta R.T. 0.024 min

Lab File: BM039110.D

Acq: 23 Mar 2023 02:23

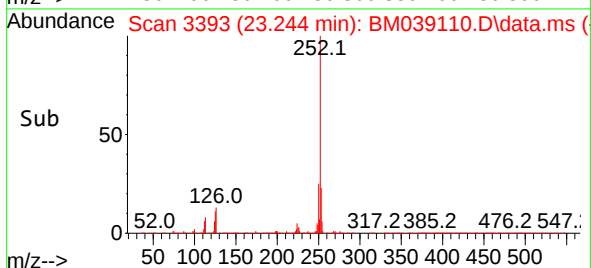
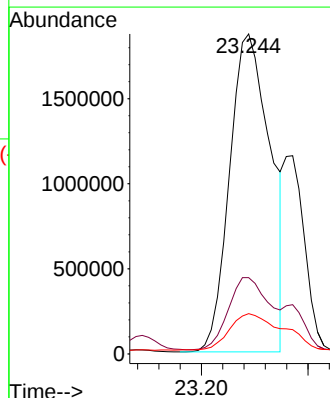
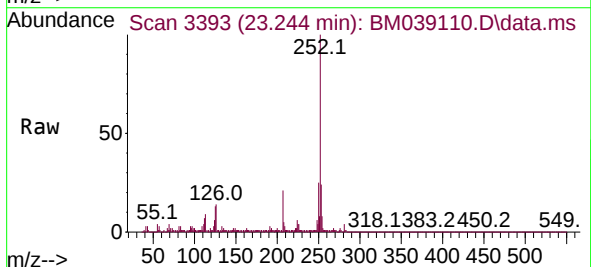
Tgt Ion:252 Resp: 4981881

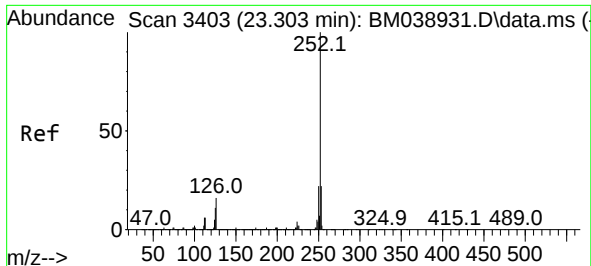
Ion Ratio Lower Upper

252 100

253 23.8 17.6 26.4

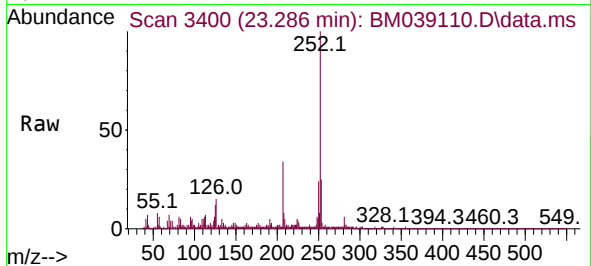
125 12.6 8.8 13.2





#89
Benzo(k)fluoranthene
Concen: 17.021 ng m
RT: 23.286 min Scan# 3403
Delta R.T. 0.018 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

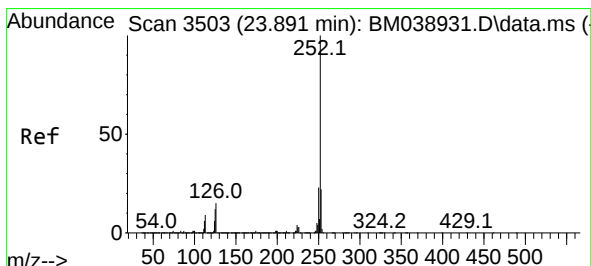
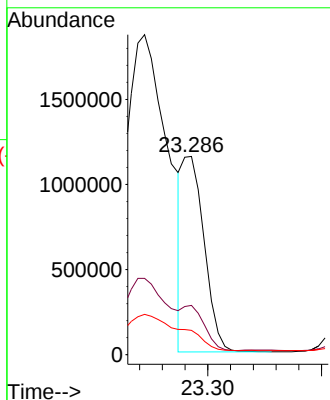
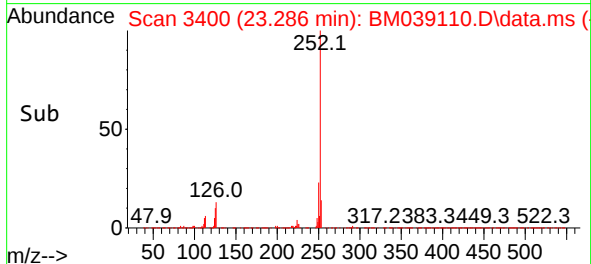
Instrument :
BNA_M
ClientSampleId :
EO-1-032123



Tgt Ion:252 Resp: 1531395
Ion Ratio Lower Upper
252 100
253 24.8 17.5 26.3
125 12.3 8.9 13.3

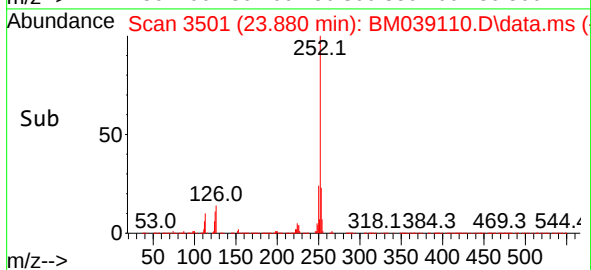
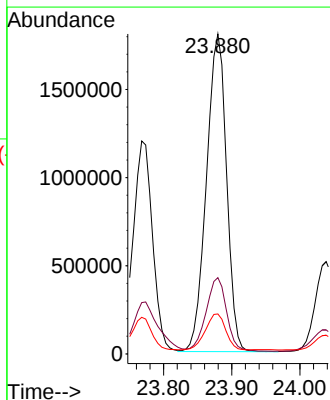
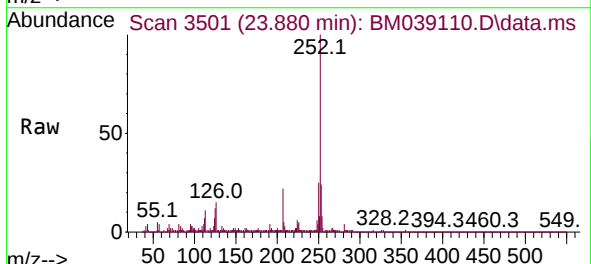
Manual Integrations
APPROVED

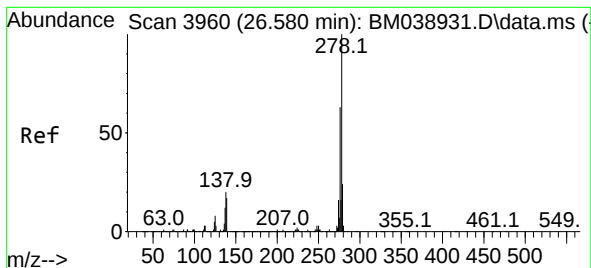
Reviewed By :Christian Giraldo 03/23/2023
Supervised By :Jagrut Upadhyay 03/23/2023



#90
Benzo(a)pyrene
Concen: 44.231 ng
RT: 23.880 min Scan# 3501
Delta R.T. 0.024 min
Lab File: BM039110.D
Acq: 23 Mar 2023 02:23

Tgt Ion:252 Resp: 3680246
Ion Ratio Lower Upper
252 100
253 23.8 17.6 26.4
125 12.5 9.8 14.8





#91

Dibenzo(a,h)anthracene

Concen: 7.632 ng

RT: 26.538 min Scan# 39

Delta R.T. 0.029 min

Lab File: BM039110.D

Acq: 23 Mar 2023 02:23

Instrument :

BNA_M

ClientSampleId :

EO-1-032123

Tgt Ion:278 Resp: 665532

Ion Ratio Lower Upper

278 100

139 27.7 13.7 20.5

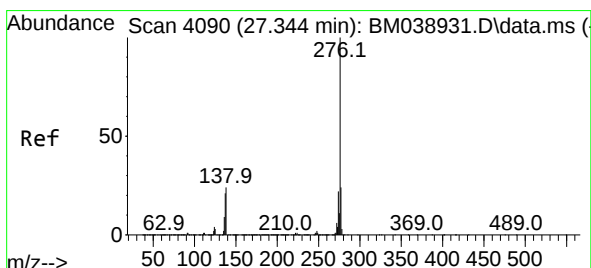
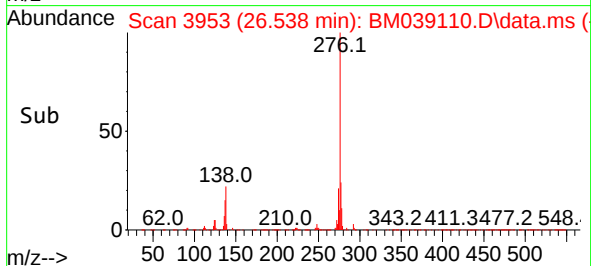
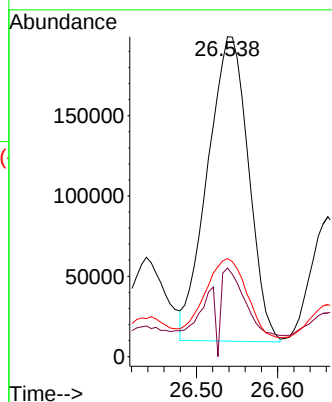
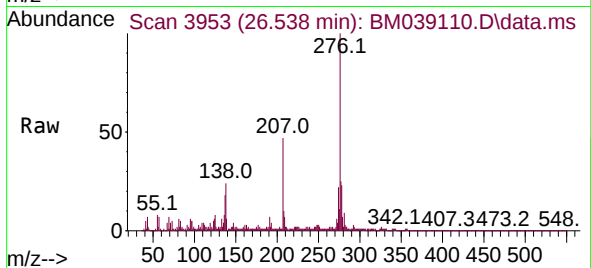
279 30.6 18.9 28.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/23/2023

Supervised By :Jagrut Upadhyay 03/23/2023



#92

Benzo(g,h,i)perylene

Concen: 30.191 ng

RT: 27.326 min Scan# 4087

Delta R.T. 0.053 min

Lab File: BM039110.D

Acq: 23 Mar 2023 02:23

Tgt Ion:276 Resp: 2575812

Ion Ratio Lower Upper

276 100

277 24.7 19.3 28.9

138 24.0 19.0 28.6

