

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM021423\
 Data File : BM038739.D
 Acq On : 14 Feb 2023 20:40
 Operator : CG/JU
 Sample : 01529-05DL 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SB-01-5.0-7.0DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/15/2023
 Supervised By : Jagrut Upadhyay 02/17/2023

Quant Time: Feb 15 02:11:04 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 15 02:07:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.898	152	48959	20.000	ng	0.00
21) Naphthalene-d8	10.710	136	170789	20.000	ng	0.00
39) Acenaphthene-d10	14.539	164	104507	20.000	ng	0.00
64) Phenanthrene-d10	17.286	188	217894	20.000	ng	0.00
76) Chrysene-d12	21.462	240	221654	20.000	ng	0.00
86) Perylene-d12	23.838	264	292223	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.457	112	144826	57.947	ng	0.00
7) Phenol-d6	7.075	99	162571	57.032	ng	0.00
23) Nitrobenzene-d5	9.075	82	96818	32.199	ng	0.00
42) 2,4,6-Tribromophenol	16.033	330	30927	21.772	ng	0.00
45) 2-Fluorobiphenyl	13.163	172	274535	33.444	ng	0.00
79) Terphenyl-d14	19.898	244	378235	30.113	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.757	128	33531	3.826	ng	98
52) Acenaphthene	14.604	154	50699	8.275	ng	96
55) Dibenzofuran	14.939	168	41356	3.920	ng	99
58) Fluorene	15.586	166	57931	6.940	ng	98
71) Phenanthrene	17.327	178	592098	45.765	ng	99
72) Anthracene	17.415	178	172894	13.063	ng	99
73) Carbazole	17.692	167	73713	5.972	ng	99
75) Fluoranthene	19.339	202	684943	50.422	ng	98
78) Pyrene	19.703	202	565973	33.165	ng	99
81) Benzo(a)anthracene	21.445	228	334371	21.326	ng	98
83) Chrysene	21.497	228	264352	17.499	ng	96
87) Indeno(1,2,3-cd)pyrene	26.303	276	176453	7.666	ng	98
88) Benzo(b)fluoranthene	23.115	252	361229	20.638	ng	96
89) Benzo(k)fluoranthene	23.156	252	143789m	8.090	ng	
90) Benzo(a)pyrene	23.733	252	274284	15.846	ng	97
91) Dibenzo(a,h)anthracene	26.309	278	52220	2.697	ng	# 81
92) Benzo(g,h,i)perylene	27.068	276	156180	7.978	ng	97

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

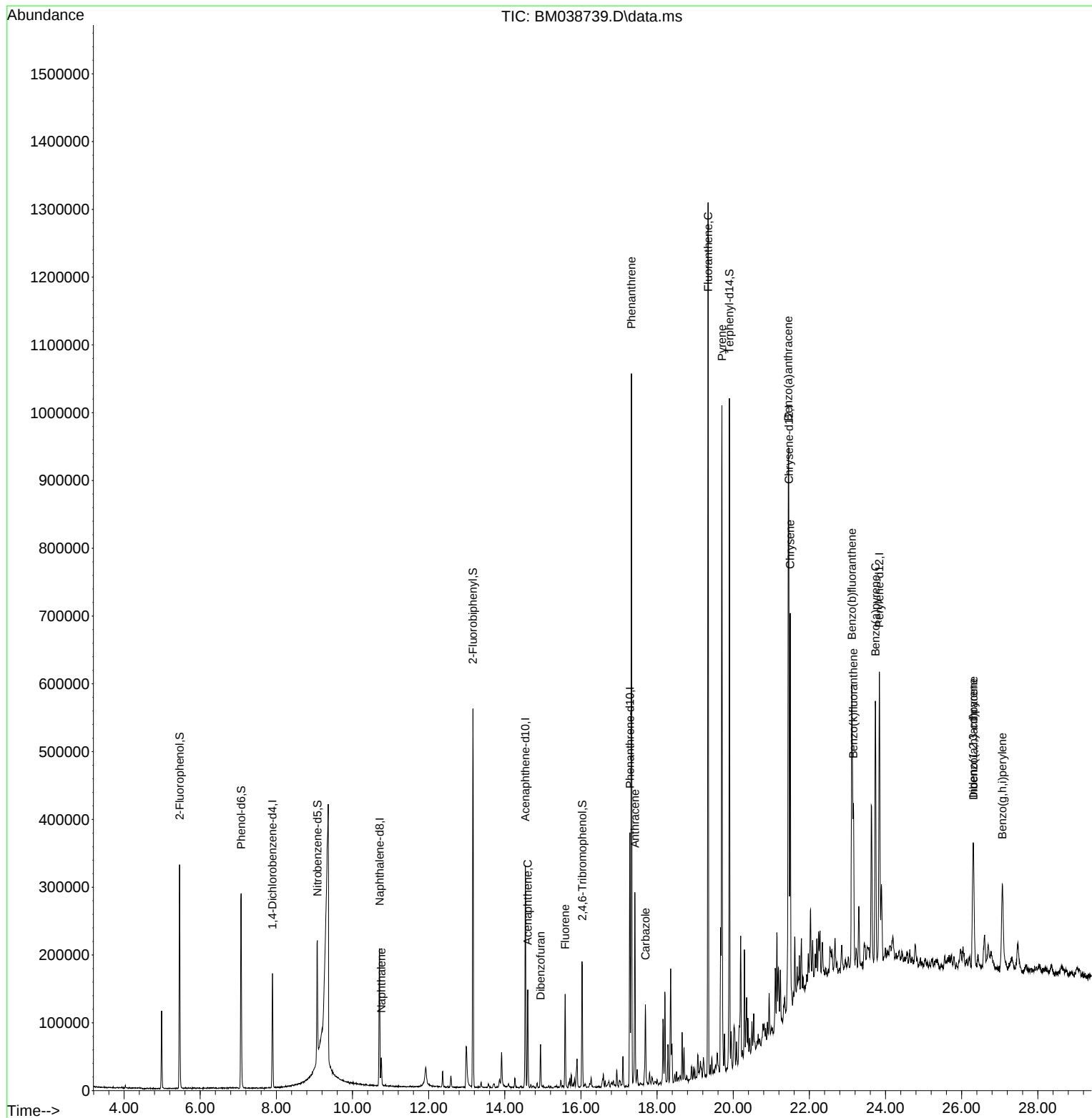
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM021423\
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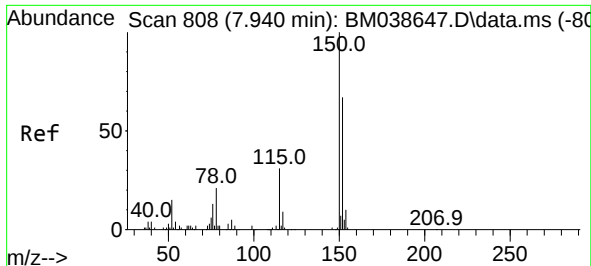
Instrument :
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Quant Time: Feb 15 02:11:04 2023
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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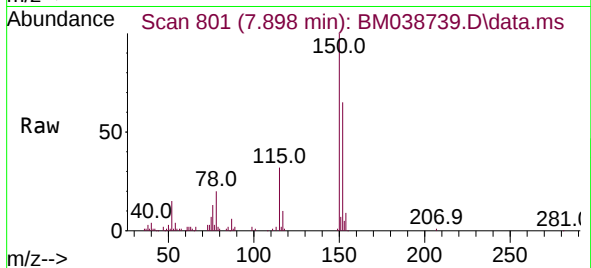
Reviewed By :Christian Giraldo 02/15/2023
Supervised By :Jagrut Upadhyay 02/17/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.898 min Scan# 80
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

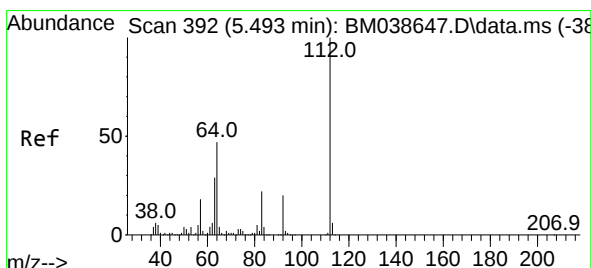
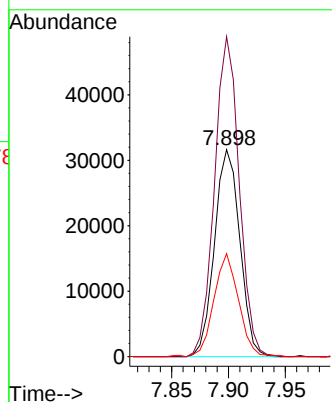
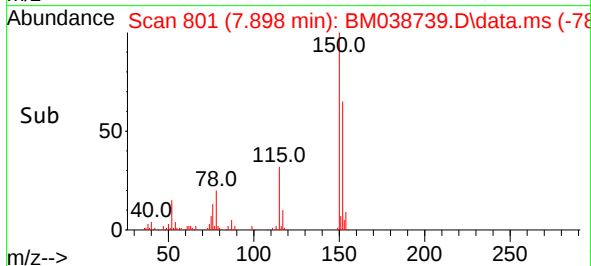
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL



Tgt Ion:152 Resp: 48959
Ion Ratio Lower Upper
152 100
150 154.6 119.5 179.3
115 49.8 37.6 56.4

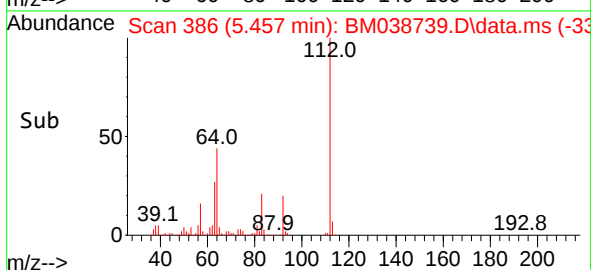
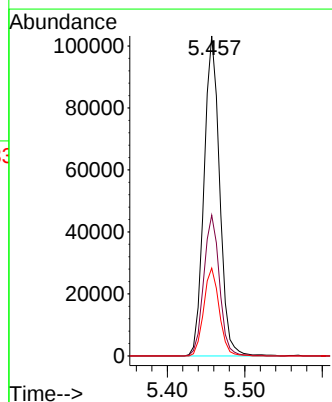
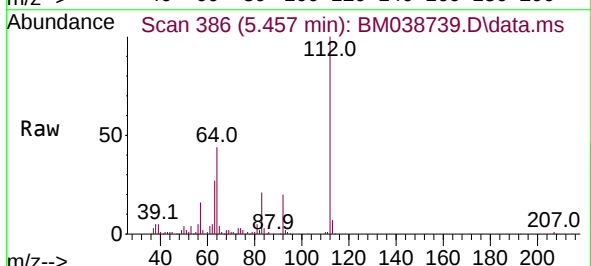
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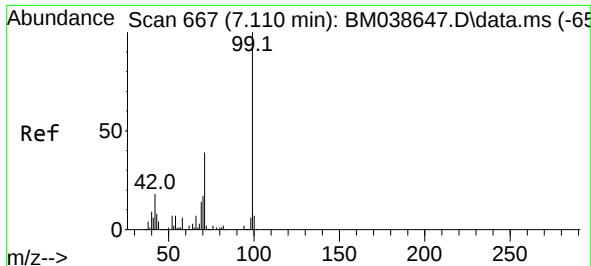
Reviewed By :Christian Giraldo 02/15/2023
Supervised By :Jagrut Upadhyay 02/17/2023



#5
2-Fluorophenol
Concen: 57.947 ng
RT: 5.457 min Scan# 386
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

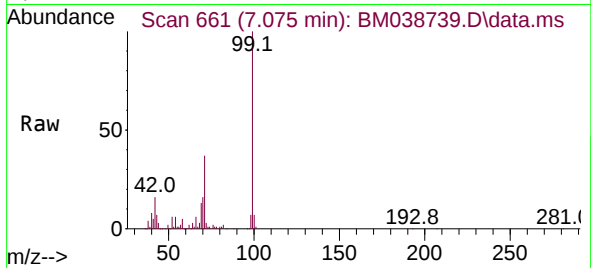
Tgt Ion:112 Resp: 144826
Ion Ratio Lower Upper
112 100
64 44.0 37.9 56.9
63 27.4 23.3 34.9





#7
Phenol-d6
Concen: 57.032 ng
RT: 7.075 min Scan# 60
Delta R.T. -0.006 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

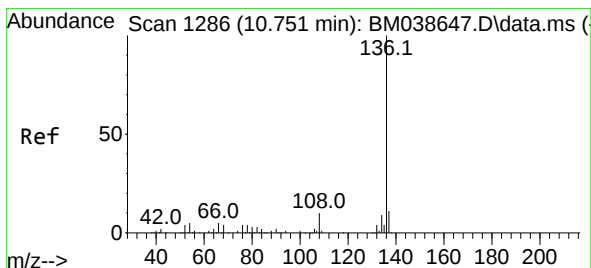
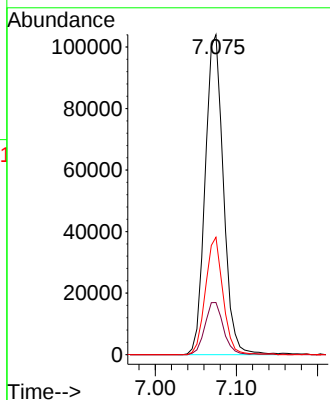
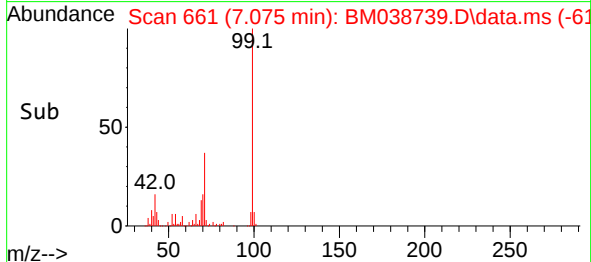
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BNA_M
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SB-01-5.0-7.0DL



Tgt Ion: 99 Resp: 16257
Ion Ratio Lower Upper
99 100
42 16.3 14.6 22.0
71 36.7 31.0 46.4

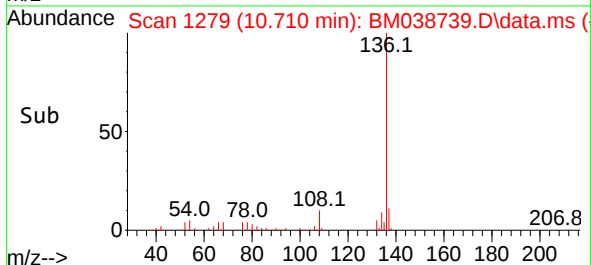
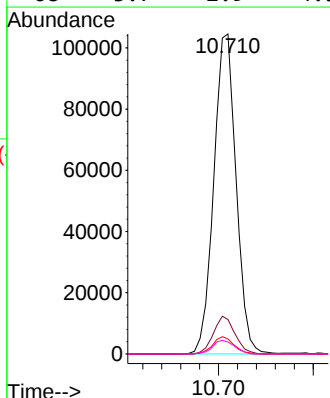
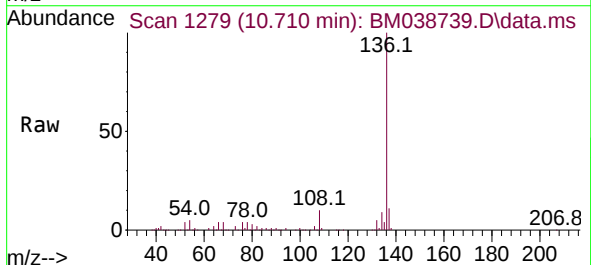
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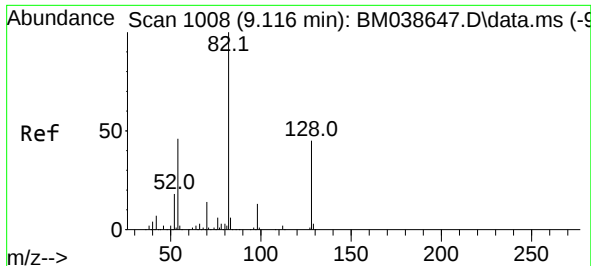
Reviewed By :Christian Giraldo 02/15/2023
Supervised By :Jagrut Upadhyay 02/17/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.710 min Scan# 1279
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

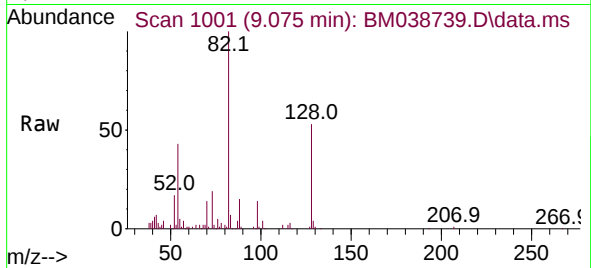
Tgt Ion:136 Resp: 170789
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 4.7 4.2 6.4
68 3.7 2.9 4.3





#23
Nitrobenzene-d5
Concen: 32.199 ng
RT: 9.075 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

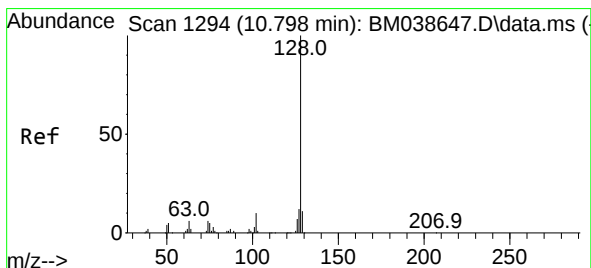
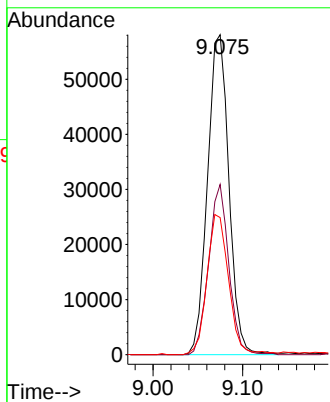
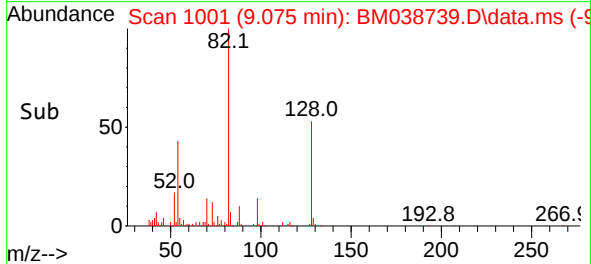
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL



Tgt Ion: 82 Resp: 96818
Ion Ratio Lower Upper
82 100
128 53.2 36.0 54.0
54 42.9 36.8 55.2

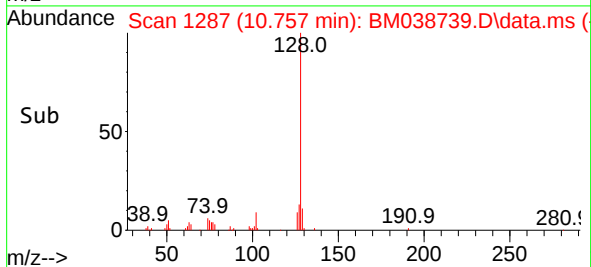
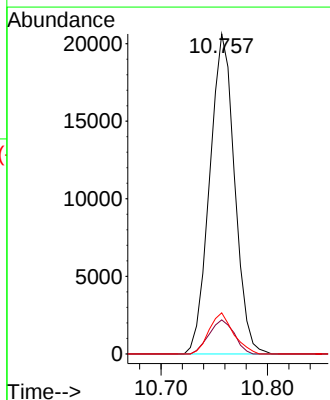
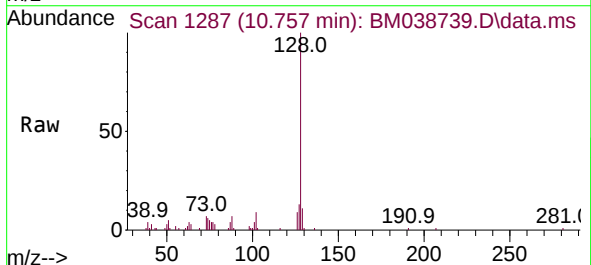
Manual Integrations
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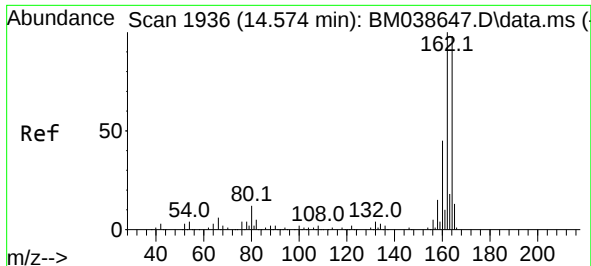
Reviewed By :Christian Giraldo 02/15/2023
Supervised By :Jagrut Upadhyay 02/17/2023



#31
Naphthalene
Concen: 3.826 ng
RT: 10.757 min Scan# 1287
Delta R.T. -0.006 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

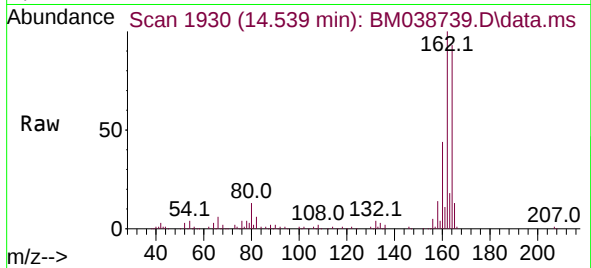
Tgt Ion:128 Resp: 33531
Ion Ratio Lower Upper
128 100
129 10.6 9.1 13.7
127 12.8 9.9 14.9





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.539 min Scan# 1936
Delta R.T. -0.006 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

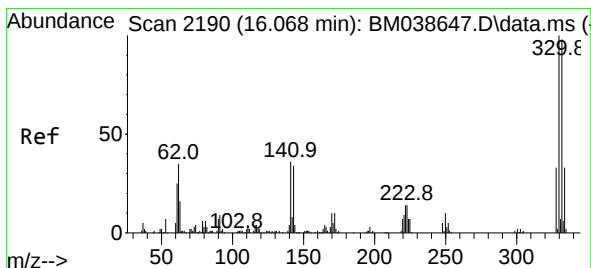
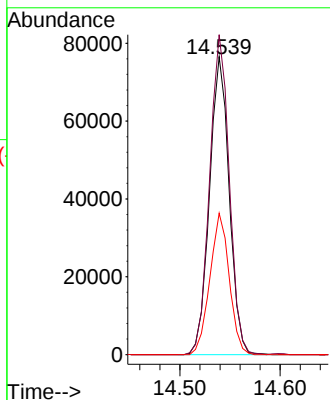
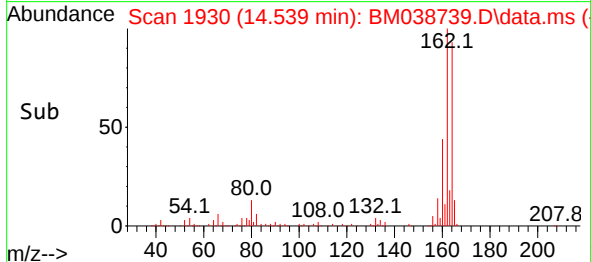
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL



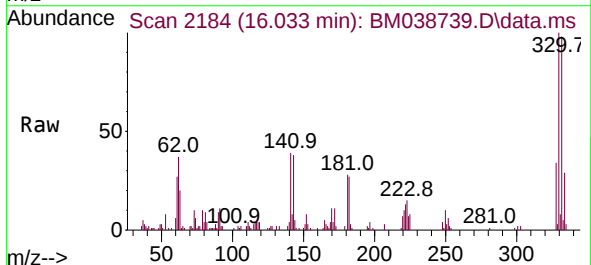
Tgt Ion:164 Resp: 104507
Ion Ratio Lower Upper
164 100
162 107.4 81.4 122.0
160 47.4 36.5 54.7

Manual Integrations
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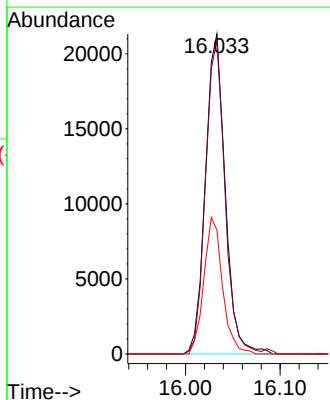
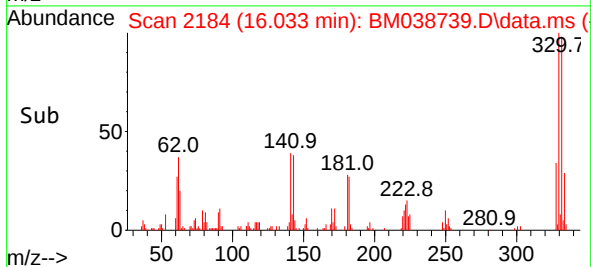
Reviewed By :Christian Giraldo 02/15/2023
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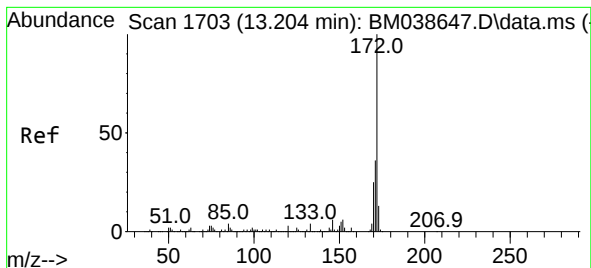


#42
2,4,6-Tribromophenol
Concen: 21.772 ng
RT: 16.033 min Scan# 2184
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40



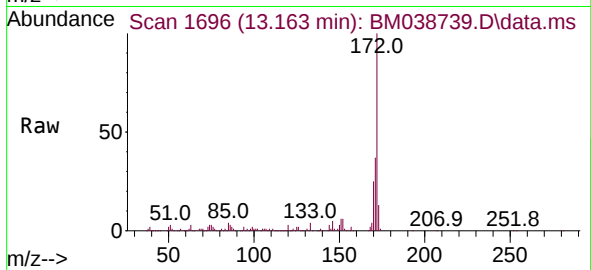
Tgt Ion:330 Resp: 30927
Ion Ratio Lower Upper
330 100
332 96.1 77.8 116.6
141 40.3 31.0 46.6





#45
2-Fluorobiphenyl
Concen: 33.444 ng
RT: 13.163 min Scan# 1696
Delta R.T. -0.006 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

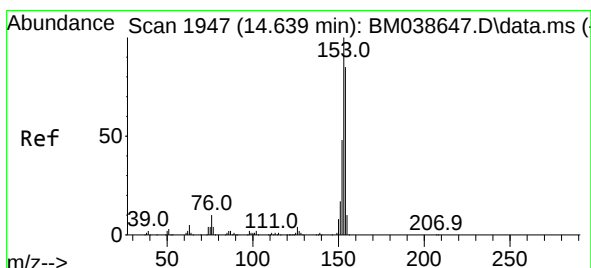
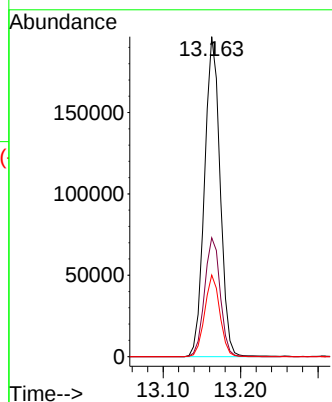
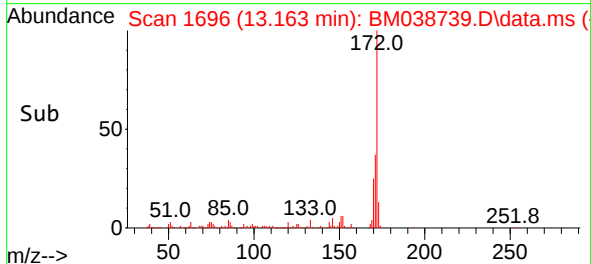
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL



Tgt Ion:172 Resp: 274535
Ion Ratio Lower Upper
172 100
171 37.1 28.7 43.1
170 25.5 20.0 30.0

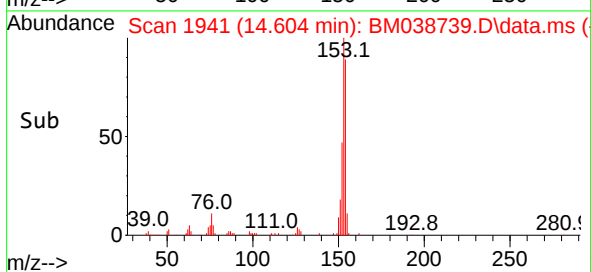
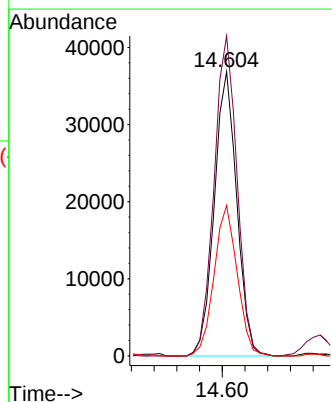
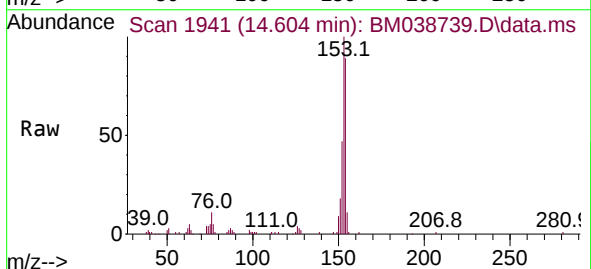
Manual Integrations
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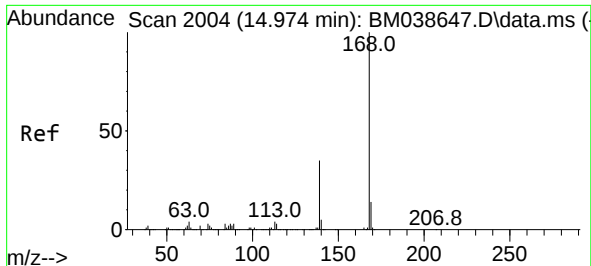
Reviewed By :Christian Giraldo 02/15/2023
Supervised By :Jagrut Upadhyay 02/17/2023



#52
Acenaphthene
Concen: 8.275 ng
RT: 14.604 min Scan# 1941
Delta R.T. -0.006 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

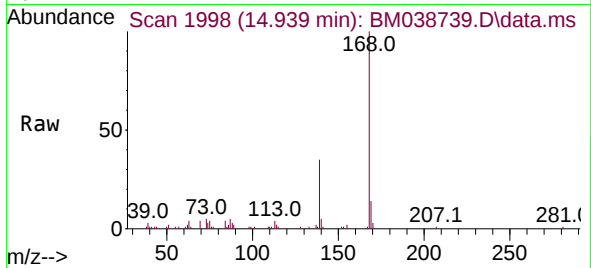
Tgt Ion:154 Resp: 50699
Ion Ratio Lower Upper
154 100
153 112.6 93.7 140.5
152 53.0 44.6 67.0





#55
Dibenzofuran
Concen: 3.920 ng
RT: 14.939 min Scan# 1998
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

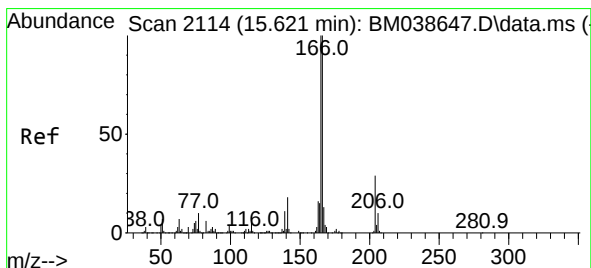
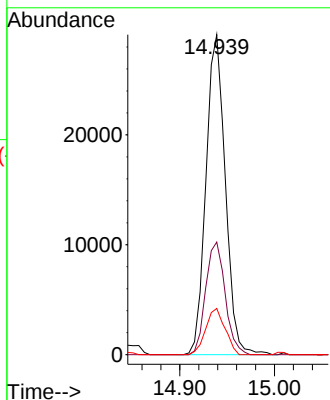
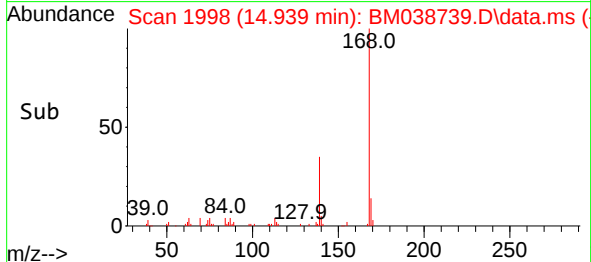
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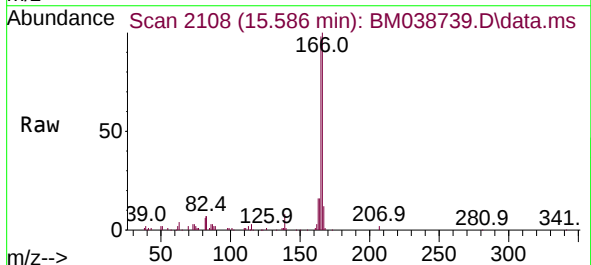
Tgt Ion:168 Resp: 41356
Ion Ratio Lower Upper
168 100
139 35.2 27.8 41.6
169 14.4 10.9 16.3

Manual Integrations
APPROVED

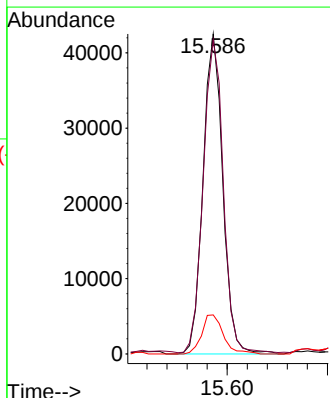
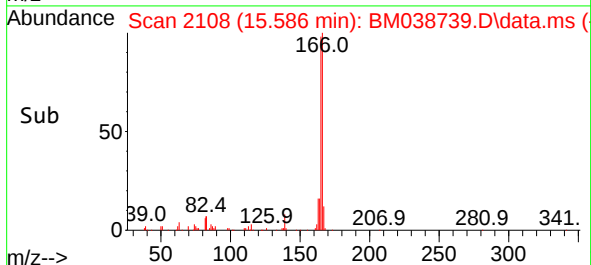
Reviewed By :Christian Giraldo 02/15/2023
Supervised By :Jagrut Upadhyay 02/17/2023

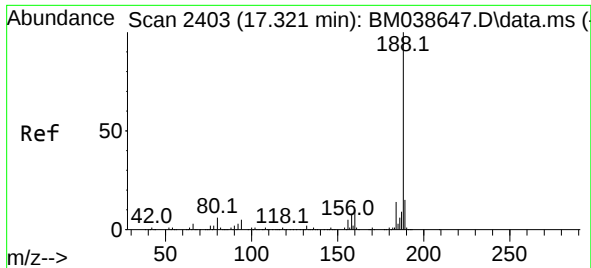


#58
Fluorene
Concen: 6.940 ng
RT: 15.586 min Scan# 2108
Delta R.T. -0.006 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40



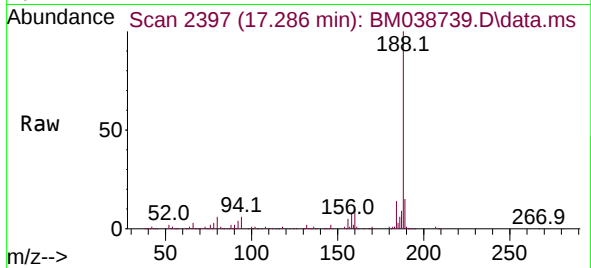
Tgt Ion:166 Resp: 57931
Ion Ratio Lower Upper
166 100
165 98.1 80.2 120.4
167 12.2 10.7 16.1





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.286 min Scan# 2397
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

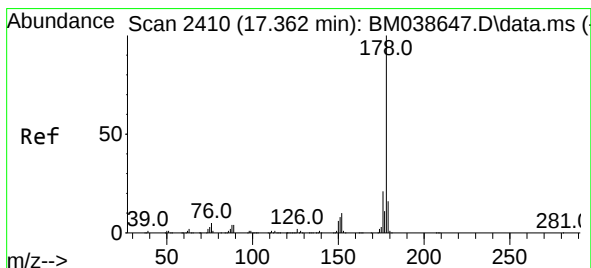
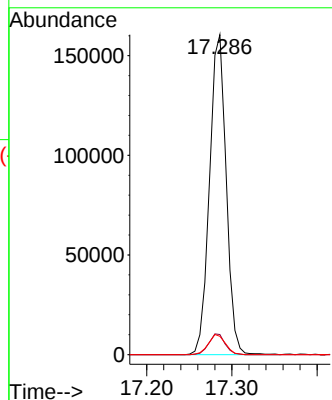
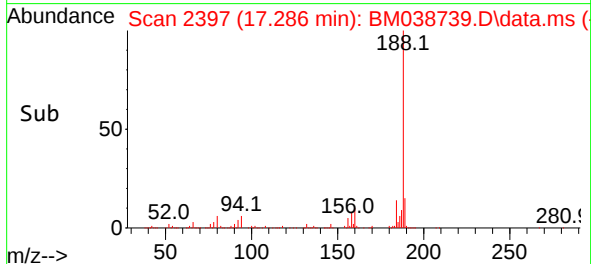
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL



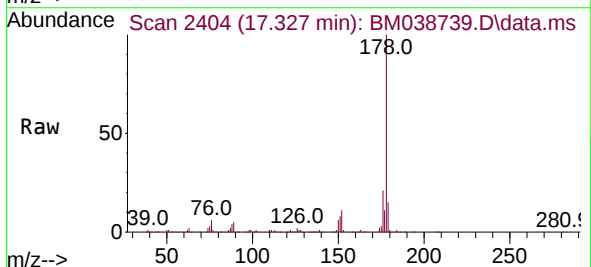
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Ion Ratio Lower Upper
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80 5.7 4.6 7.0

Manual Integrations
APPROVED

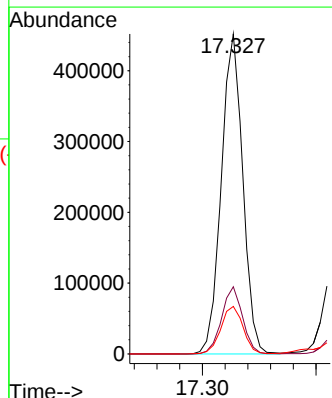
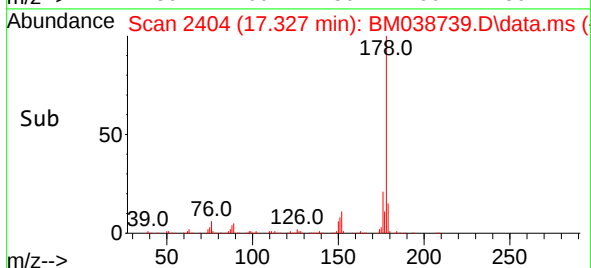
Reviewed By :Christian Giraldo 02/15/2023
Supervised By :Jagrut Upadhyay 02/17/2023

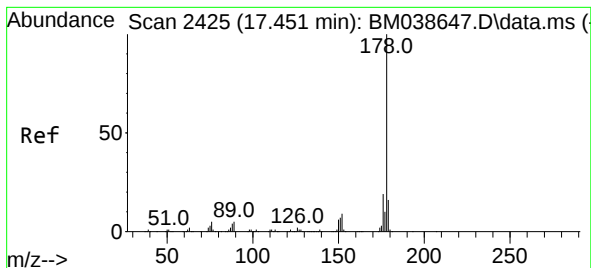


#71
Phenanthrene
Concen: 45.765 ng
RT: 17.327 min Scan# 2404
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40



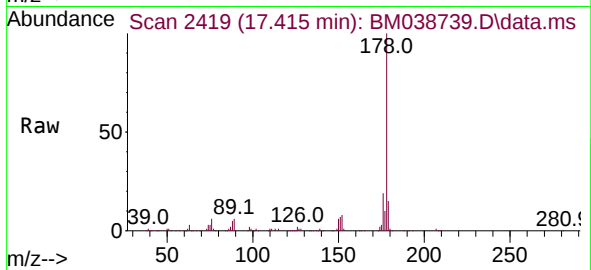
Tgt Ion:178 Resp: 592098
Ion Ratio Lower Upper
178 100
176 21.0 16.7 25.1
179 14.8 12.5 18.7





#72
 Anthracene
 Concen: 13.063 ng
 RT: 17.415 min Scan# 2425
 Delta R.T. -0.006 min
 Lab File: BM038739.D
 Acq: 14 Feb 2023 20:40

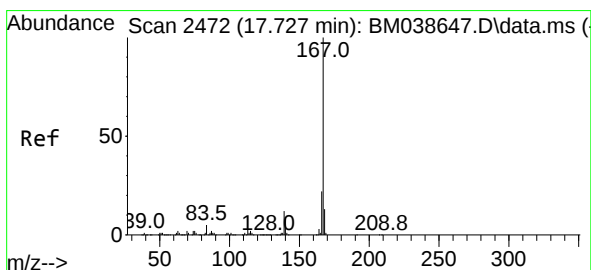
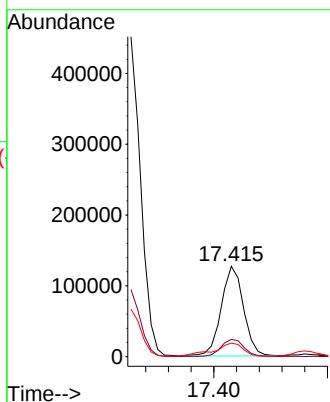
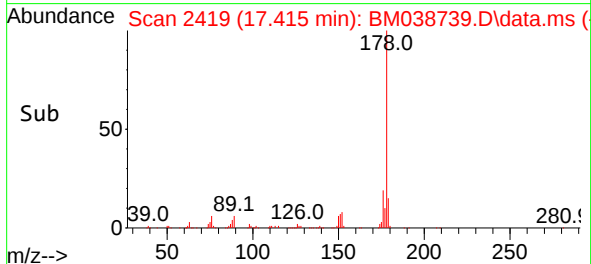
Instrument :
 BNA_M
 ClientSampleId :
 SB-01-5.0-7.0DL



Tgt Ion:178 Resp: 172894
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.6 23.4
 179 15.0 12.4 18.6

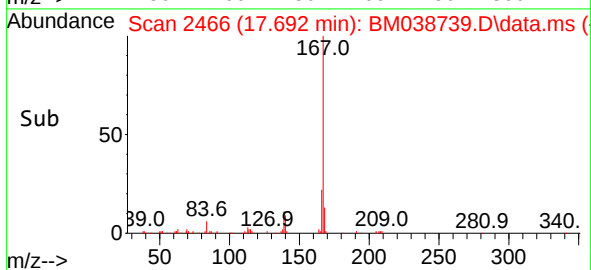
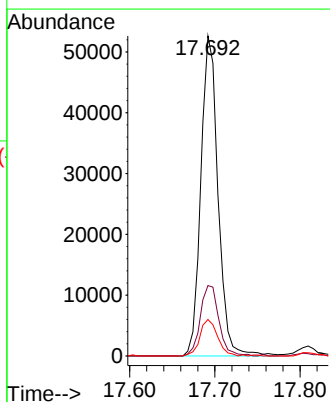
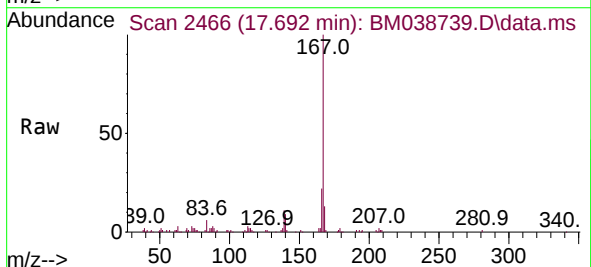
Manual Integrations
 APPROVED

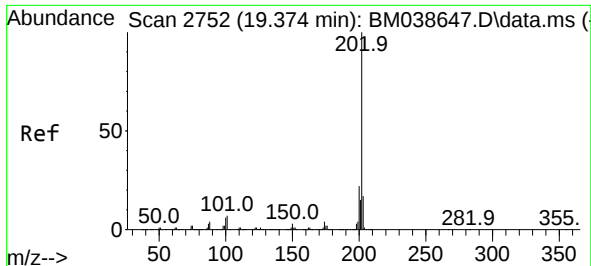
Reviewed By :Christian Giraldo 02/15/2023
 Supervised By :Jagrut Upadhyay 02/17/2023



#73
 Carbazole
 Concen: 5.972 ng
 RT: 17.692 min Scan# 2466
 Delta R.T. -0.006 min
 Lab File: BM038739.D
 Acq: 14 Feb 2023 20:40

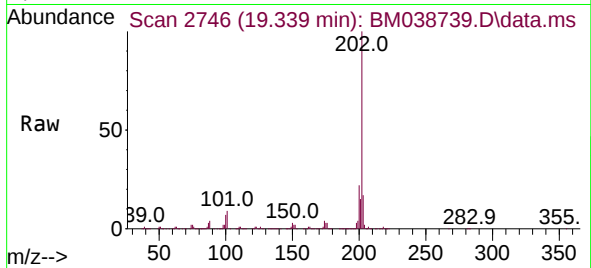
Tgt Ion:167 Resp: 73713
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.8 26.6
 139 11.4 9.4 14.2





#75
Fluoranthene
Concen: 50.422 ng
RT: 19.339 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

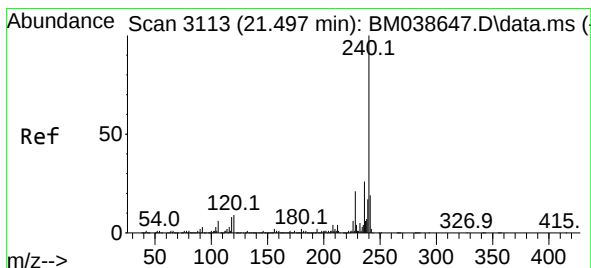
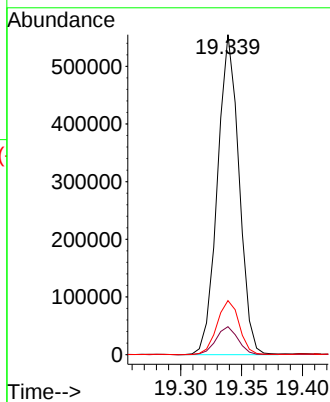
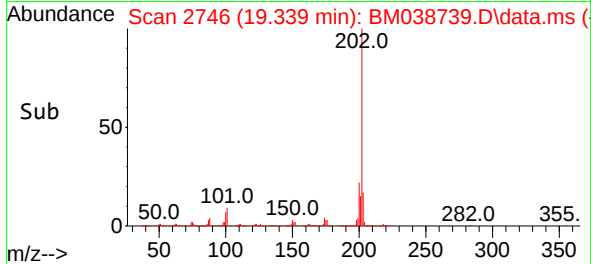
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL



Tgt Ion:202 Resp: 684943
Ion Ratio Lower Upper
202 100
101 8.7 0.0 27.4
203 16.9 0.0 37.3

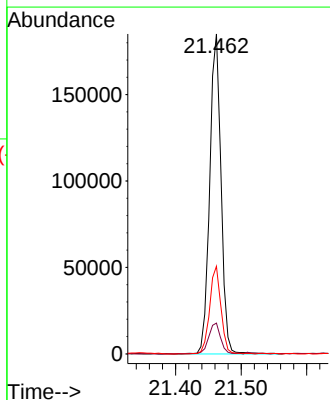
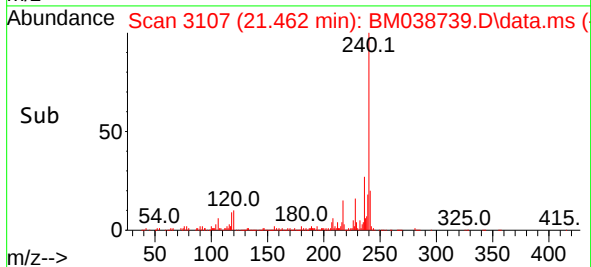
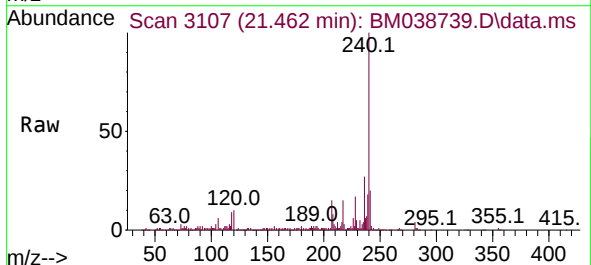
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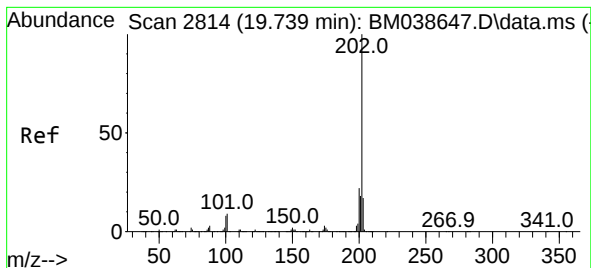
Reviewed By :Christian Giraldo 02/15/2023
Supervised By :Jagrut Upadhyay 02/17/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.462 min Scan# 3107
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

Tgt Ion:240 Resp: 221654
Ion Ratio Lower Upper
240 100
120 9.6 7.0 10.4
236 27.4 20.9 31.3





#78

Pyrene

Concen: 33.165 ng

RT: 19.703 min Scan# 2814

Delta R.T. 0.000 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

Instrument :

BNA_M

ClientSampleId :

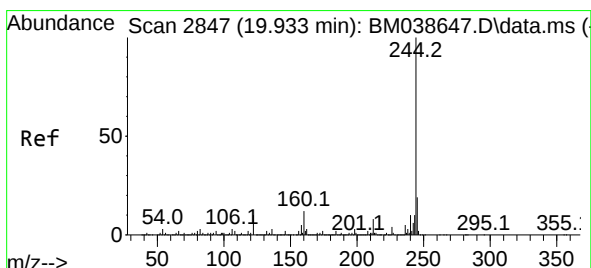
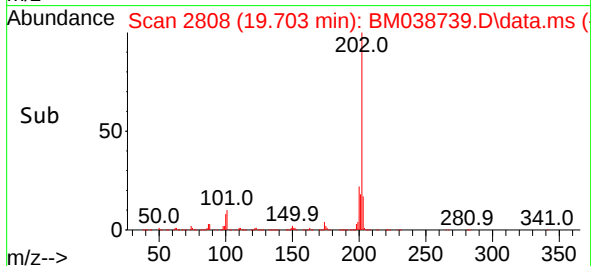
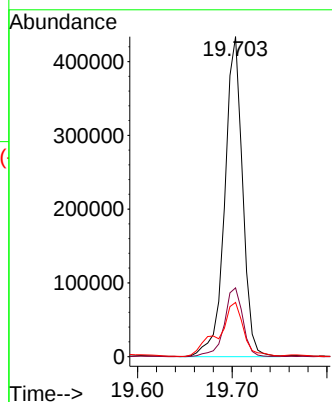
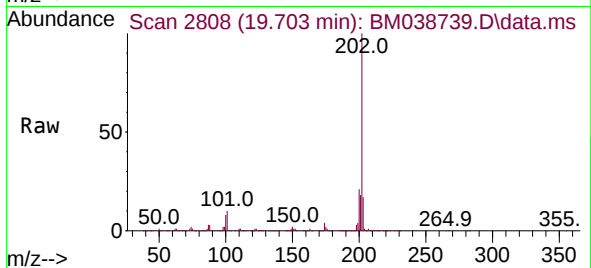
SB-01-5.0-7.0DL

Tgt Ion:202 Resp: 565973
 Ion Ratio Lower Upper
 202 100
 200 21.5 17.8 26.6
 203 16.9 13.5 20.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/15/2023
 Supervised By :Jagrut Upadhyay 02/17/2023



#79

Terphenyl-d14

Concen: 30.113 ng

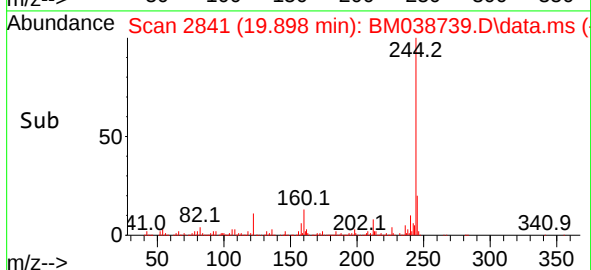
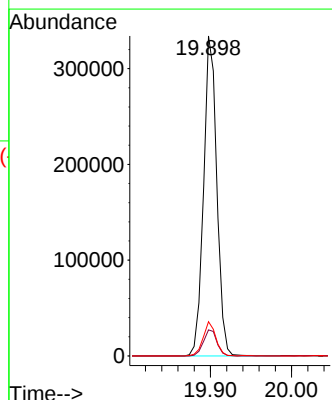
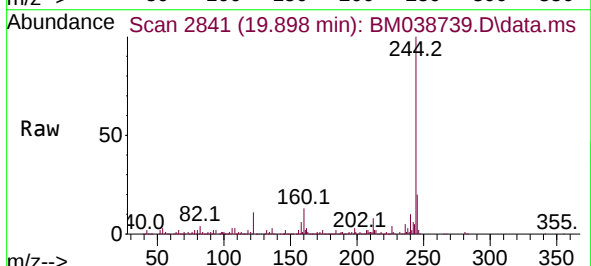
RT: 19.898 min Scan# 2841

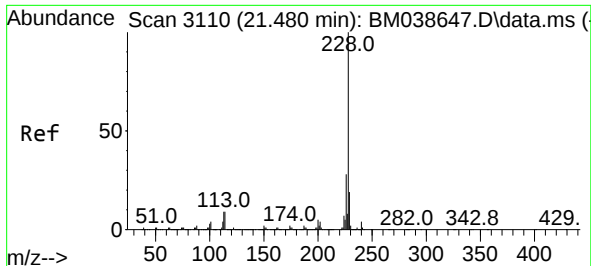
Delta R.T. -0.006 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

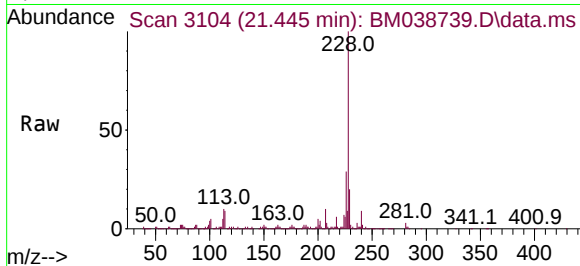
Tgt Ion:244 Resp: 378235
 Ion Ratio Lower Upper
 244 100
 212 8.1 6.6 9.8
 122 10.7 7.8 11.8





#81
Benzo(a)anthracene
Concen: 21.326 ng
RT: 21.445 min Scan# 3110
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

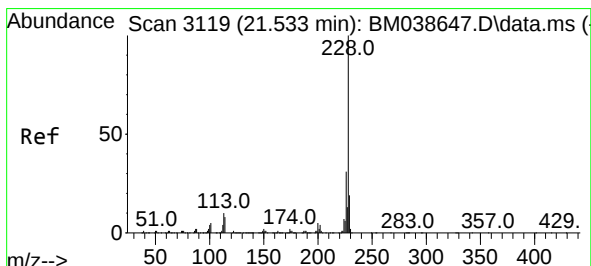
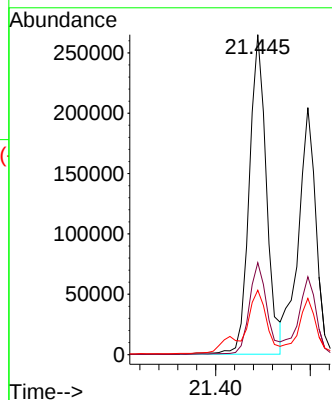
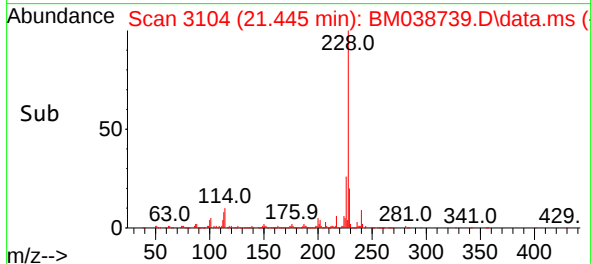
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL



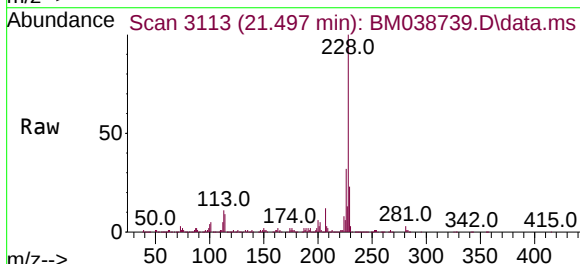
Tgt Ion:228 Resp: 33437
Ion Ratio Lower Upper
228 100
226 28.7 22.2 33.4
229 20.1 15.5 23.3

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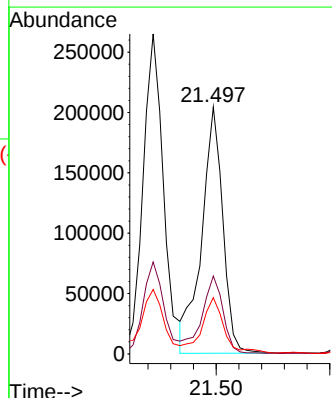
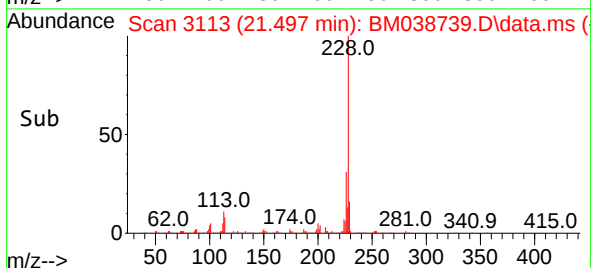
Reviewed By :Christian Giraldo 02/15/2023
Supervised By :Jagrut Upadhyay 02/17/2023

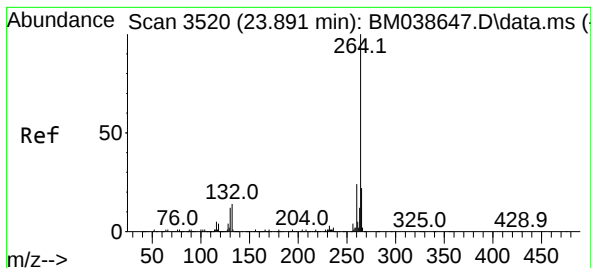


#83
Chrysene
Concen: 17.499 ng
RT: 21.497 min Scan# 3113
Delta R.T. -0.006 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40



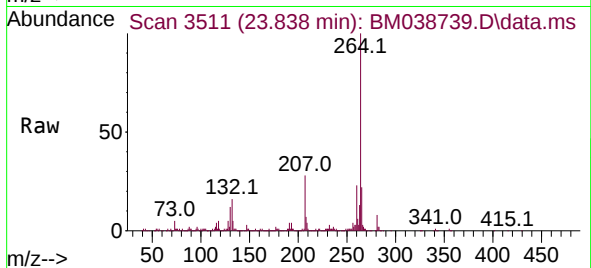
Tgt Ion:228 Resp: 264352
Ion Ratio Lower Upper
228 100
226 31.5 24.7 37.1
229 22.7 15.5 23.3





#86
Perylene-d12
Concen: 20.000 ng
RT: 23.838 min Scan# 31
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

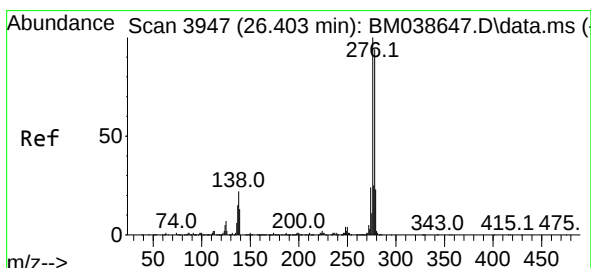
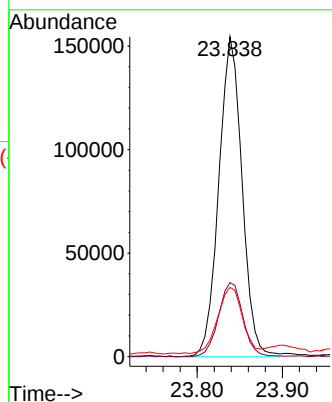
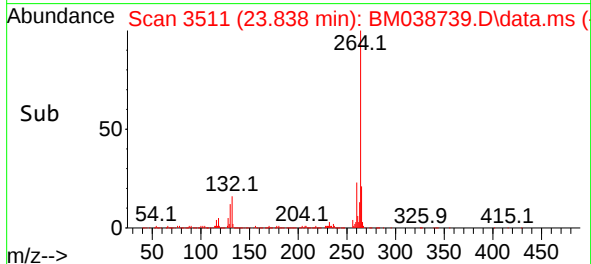
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL



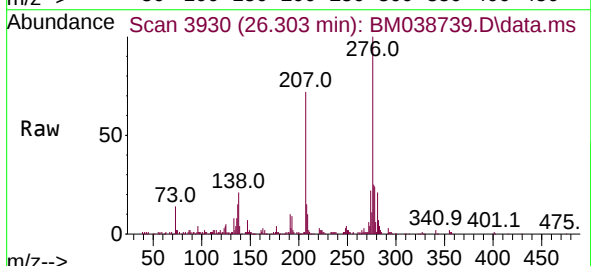
Tgt Ion:264 Resp: 292223
Ion Ratio Lower Upper
264 100
260 23.1 19.6 29.4
265 21.6 17.9 26.9

Manual Integrations
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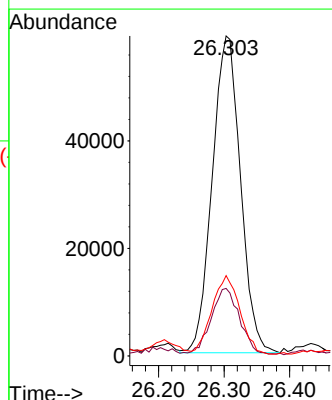
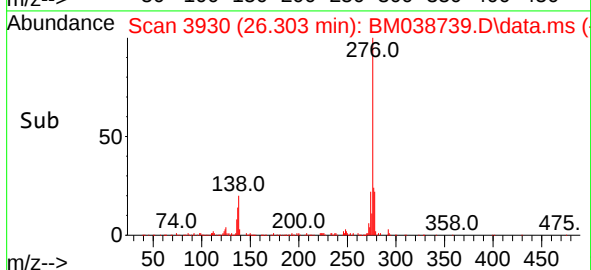
Reviewed By :Christian Giraldo 02/15/2023
Supervised By :Jagrut Upadhyay 02/17/2023

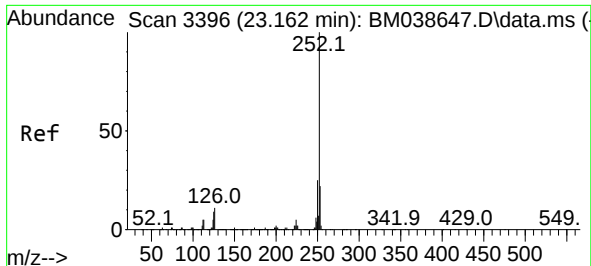


#87
Indeno(1,2,3-cd)pyrene
Concen: 7.666 ng
RT: 26.303 min Scan# 3930
Delta R.T. -0.012 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40



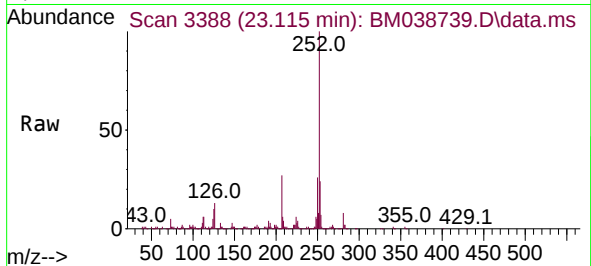
Tgt Ion:276 Resp: 176453
Ion Ratio Lower Upper
276 100
138 20.7 17.2 25.8
277 24.6 20.2 30.4





#88
Benzo(b)fluoranthene
Concen: 20.638 ng
RT: 23.115 min Scan# 3388
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

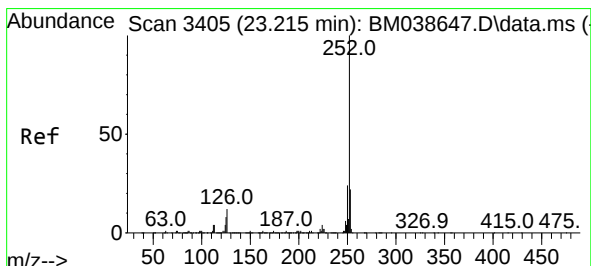
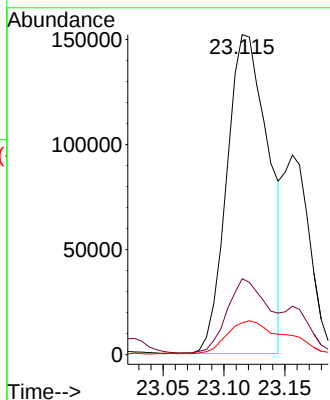
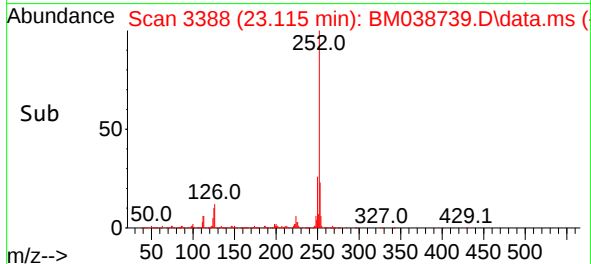
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL



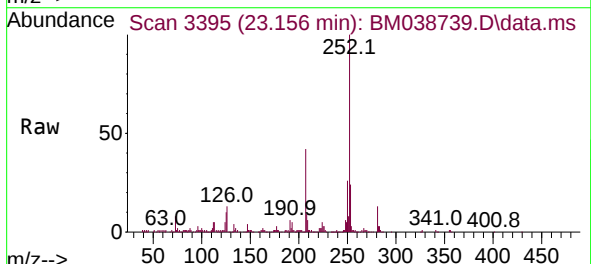
Tgt Ion:252 Resp: 361229
Ion Ratio Lower Upper
252 100
253 23.7 17.4 26.2
125 9.9 7.0 10.6

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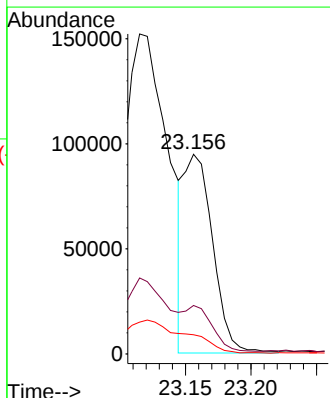
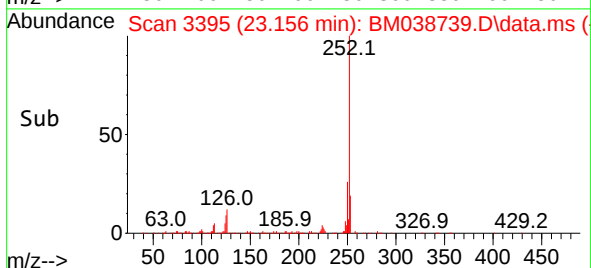
Reviewed By :Christian Giraldo 02/15/2023
Supervised By :Jagrut Upadhyay 02/17/2023

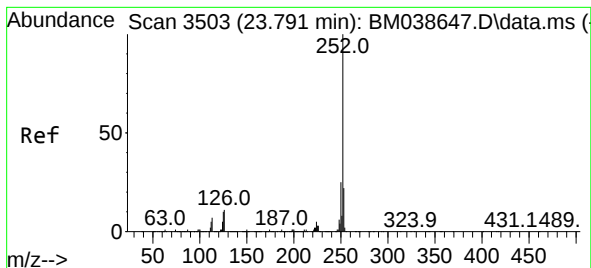


#89
Benzo(k)fluoranthene
Concen: 8.090 ng m
RT: 23.156 min Scan# 3395
Delta R.T. -0.006 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40



Tgt Ion:252 Resp: 143789
Ion Ratio Lower Upper
252 100
253 24.2 17.4 26.0
125 9.6 6.6 9.8





#90

Benzo(a)pyrene

Concen: 15.846 ng

RT: 23.733 min Scan# 34

Delta R.T. -0.006 min

Lab File: BM038739.D

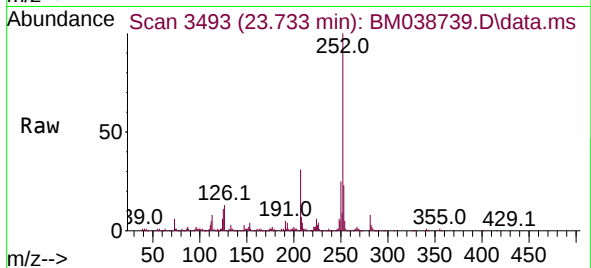
Acq: 14 Feb 2023 20:40

Instrument :

BNA_M

ClientSampleId :

SB-01-5.0-7.0DL



Tgt Ion:252 Resp: 274284

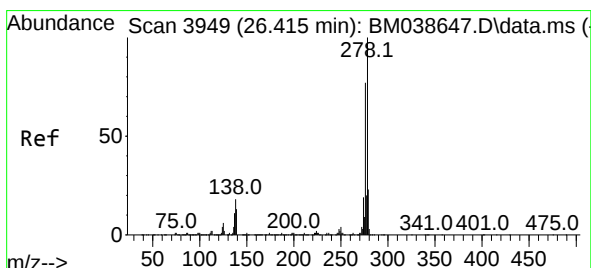
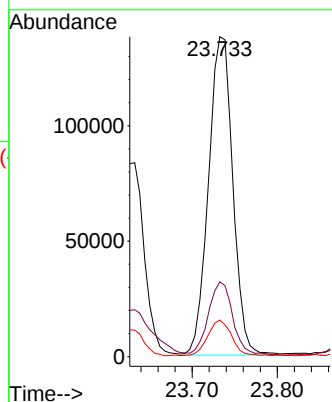
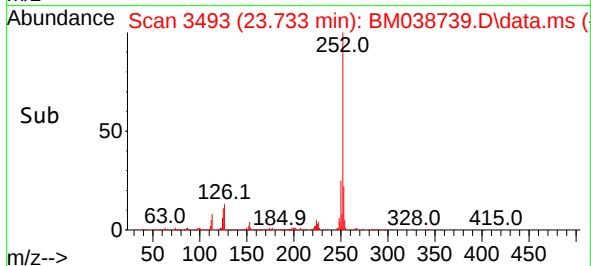
Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.7	26.5
125	11.4	7.8	11.8

Manual Integrations

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Reviewed By :Christian Giraldo 02/15/2023

Supervised By :Jagrut Upadhyay 02/17/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.697 ng

RT: 26.309 min Scan# 3931

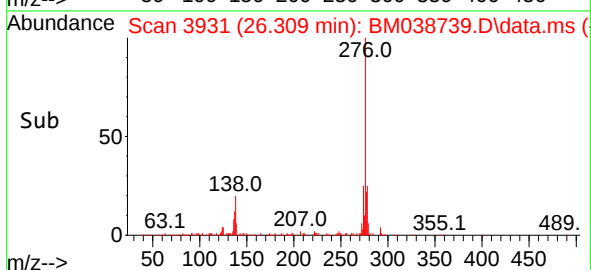
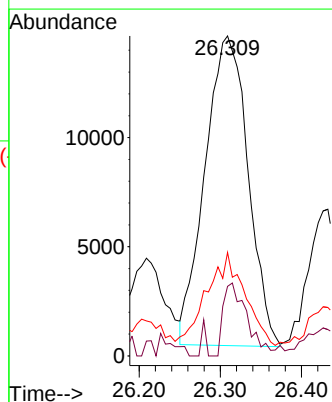
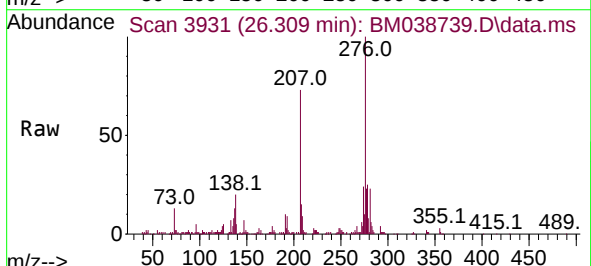
Delta R.T. -0.018 min

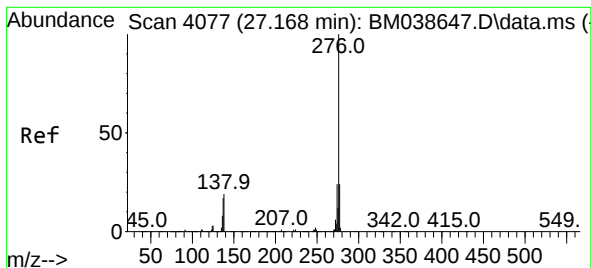
Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

Tgt Ion:278 Resp: 52220

Ion	Ratio	Lower	Upper
278	100		
139	21.7	10.5	15.7#
279	32.3	18.7	28.1#





#92

Benzo(g,h,i)perylene

Concen: 7.978 ng

RT: 27.068 min Scan# 40

Delta R.T. -0.012 min

Lab File: BM038739.D

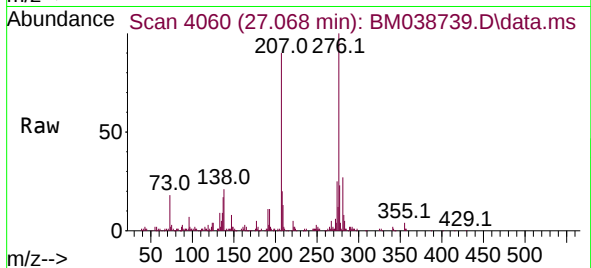
Acq: 14 Feb 2023 20:40

Instrument :

BNA_M

ClientSampleId :

SB-01-5.0-7.0DL



Tgt Ion:276 Resp: 156180

Ion Ratio Lower Upper

276 100

277 23.4 19.1 28.7

138 21.2 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/15/2023

Supervised By :Jagrut Upadhyay 02/17/2023

