

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041323\
 Data File : BM039428.D
 Acq On : 14 Apr 2023 01:50
 Operator : CG/JU
 Sample : 02305-01 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 VNJ-232

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/14/2023
 Supervised By : Jagrut Upadhyay 04/14/2023

Quant Time: Apr 14 05:21:03 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 11 16:05:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.857	152	257967	20.000	ng	0.00
21) Naphthalene-d8	10.669	136	1064003	20.000	ng	0.00
39) Acenaphthene-d10	14.516	164	631039	20.000	ng	0.00
64) Phenanthrene-d10	17.268	188	1276792	20.000	ng	0.00
76) Chrysene-d12	21.462	240	941732	20.000	ng	0.00
86) Perylene-d12	23.856	264	1081653	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	255964	14.949	ng	0.01
7) Phenol-d6	7.063	99	326704	14.752	ng	0.03
23) Nitrobenzene-d5	9.028	82	190196	8.688	ng	0.00
42) 2,4,6-Tribromophenol	16.016	330	113512	14.171	ng	0.00
45) 2-Fluorobiphenyl	13.133	172	464928	9.983	ng	0.00
79) Terphenyl-d14	19.898	244	605377	11.877	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	14.580	154	132094	3.607	ng	99
58) Fluorene	15.569	166	268379	5.749	ng	98
71) Phenanthrene	17.315	178	3651375	52.216	ng	100
72) Anthracene	17.404	178	1058749	14.848	ng	99
73) Carbazole	17.680	167	374974	5.628	ng	99
75) Fluoranthene	19.339	202	5976560	74.977	ng	99
78) Pyrene	19.698	202	4700914	70.120	ng	99
81) Benzo(a)anthracene	21.445	228	2443213	36.786	ng	99
83) Chrysene	21.498	228	2353857	36.712	ng	97
87) Indeno(1,2,3-cd)pyrene	26.344	276	1366241	17.143	ng	95
88) Benzo(b)fluoranthene	23.133	252	2944604	44.491	ng	97
89) Benzo(k)fluoranthene	23.174	252	871267m	12.924	ng	
90) Benzo(a)pyrene	23.750	252	1965919	30.237	ng	97
91) Dibenzo(a,h)anthracene	26.350	278	391695	5.853	ng	# 84
92) Benzo(g,h,i)perylene	27.115	276	1345179	20.440	ng	99

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

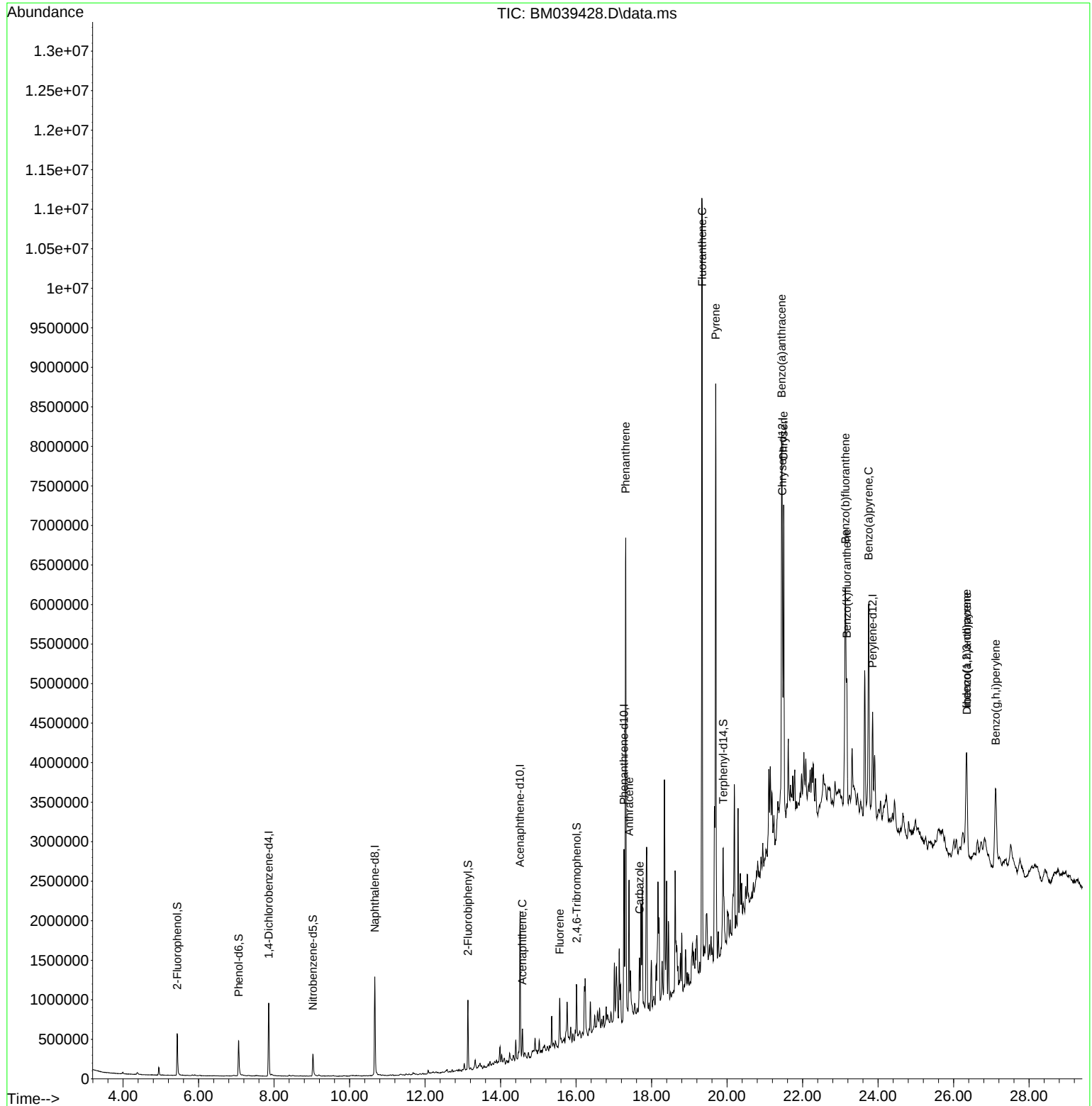
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041323\
Data File : BM039428.D
Acq On : 14 Apr 2023 01:50
Operator : CG/JU
Sample : 02305-01 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

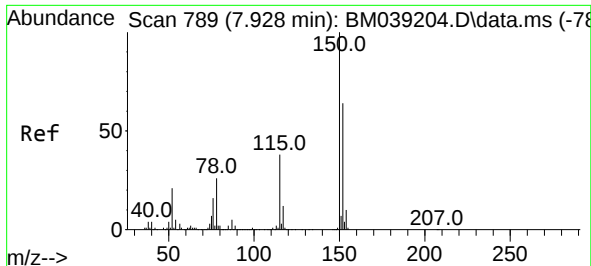
Instrument :
BNA_M
ClientSampleId :
VNJ-232

Quant Time: Apr 14 05:21:03 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 11 16:05:42 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

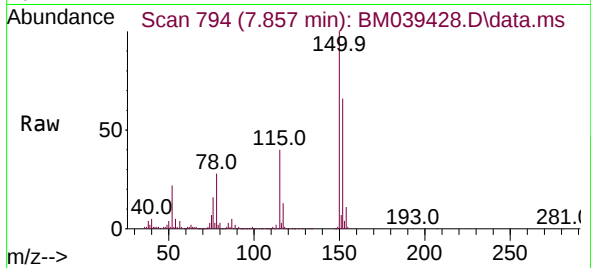
Reviewed By : Christian Giraldo 04/14/2023
Supervised By : Jagrut Upadhyay 04/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.857 min Scan# 794
Delta R.T. -0.006 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

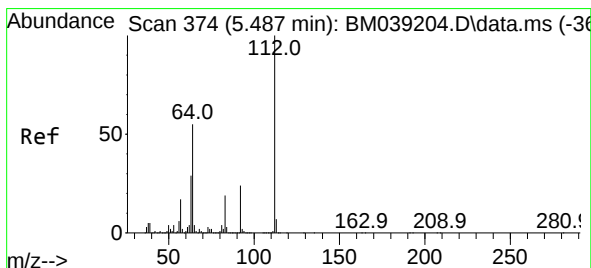
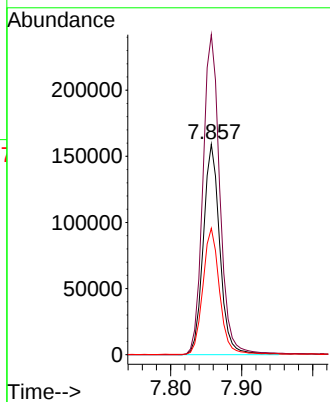
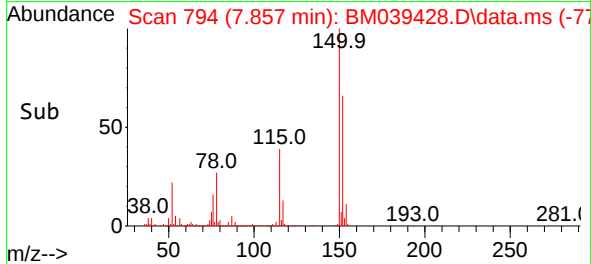
Instrument :
BNA_M
ClientSampleId :
VNJ-232



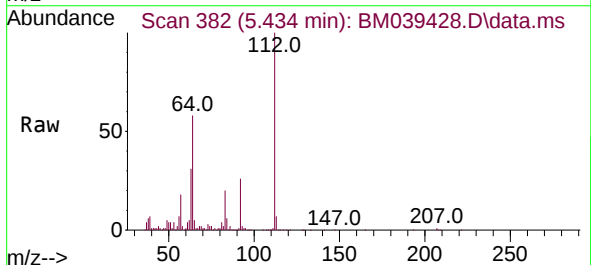
Tgt Ion:152 Resp: 257964
Ion Ratio Lower Upper
152 100
150 152.1 125.5 188.3
115 60.1 48.1 72.1

Manual Integrations
APPROVED

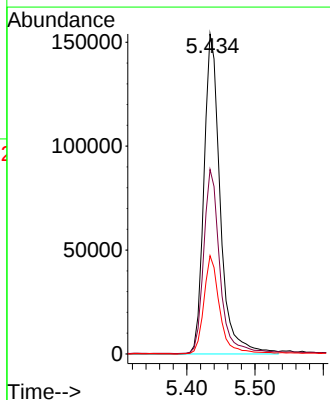
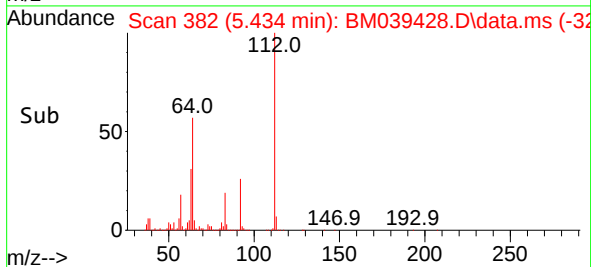
Reviewed By :Christian Giraldo 04/14/2023
Supervised By :Jagrut Upadhyay 04/14/2023



#5
2-Fluorophenol
Concen: 14.949 ng
RT: 5.434 min Scan# 382
Delta R.T. 0.012 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50



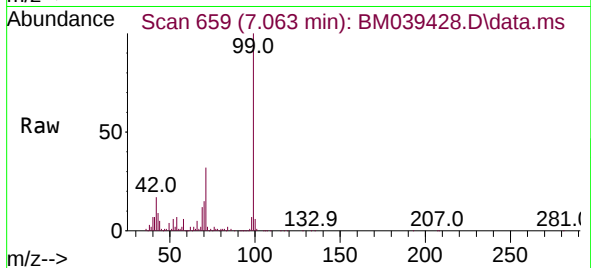
Tgt Ion:112 Resp: 255964
Ion Ratio Lower Upper
112 100
64 57.6 44.3 66.5
63 30.7 23.0 34.6





#7
Phenol-d6
Concen: 14.752 ng
RT: 7.063 min Scan# 61
Delta R.T. 0.030 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

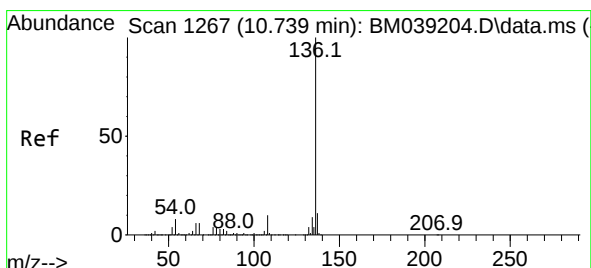
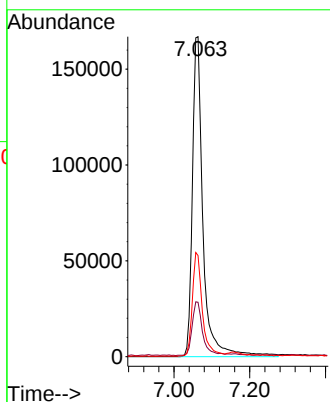
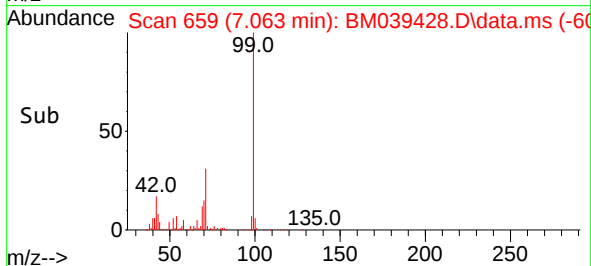
Instrument :
BNA_M
ClientSampleId :
VNJ-232



Tgt Ion: 99 Resp: 326704
Ion Ratio Lower Upper
99 100
42 17.0 13.0 19.6
71 31.6 25.5 38.3

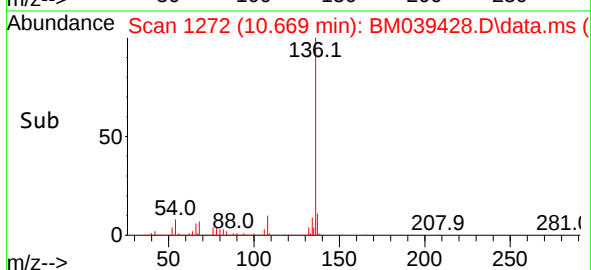
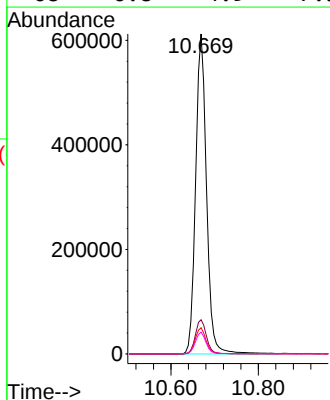
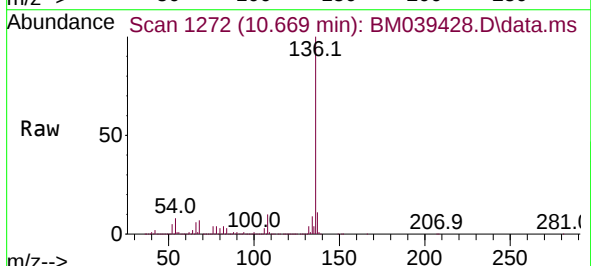
Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 04/14/2023
Supervised By :Jagrut Upadhyay 04/14/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.669 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

Tgt Ion:136 Resp: 1064003
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 8.2 6.2 9.4
68 6.8 4.9 7.3





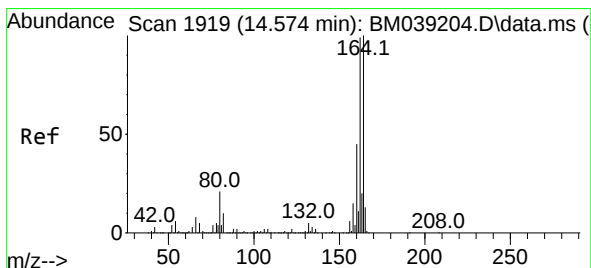
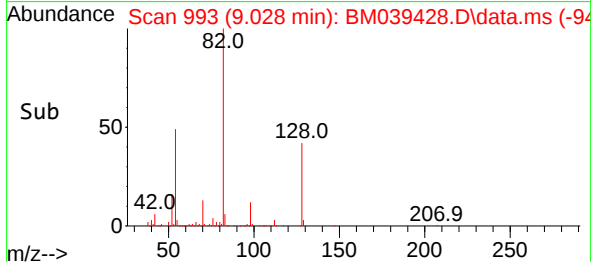
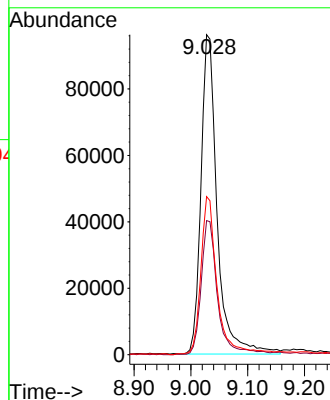
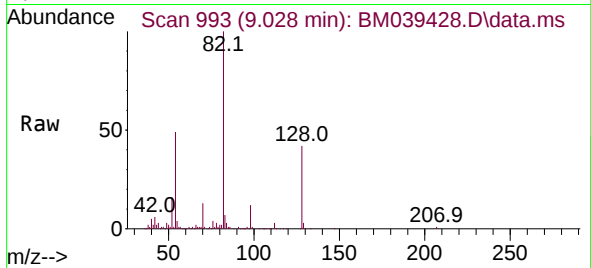
#23
Nitrobenzene-d5
Concen: 8.688 ng
RT: 9.028 min Scan# 90
Delta R.T. -0.006 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

Instrument :
BNA_M
ClientSampleId :
VNJ-232

Tgt Ion: 82 Resp: 190190
Ion Ratio Lower Upper
82 100
128 41.9 35.1 52.7
54 49.4 38.5 57.7

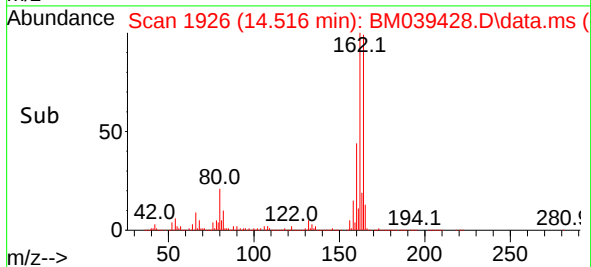
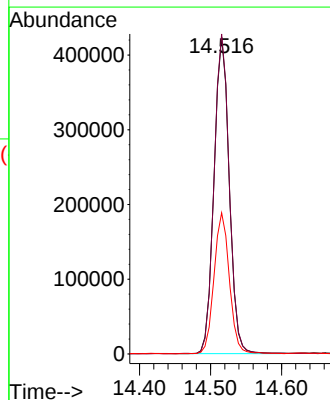
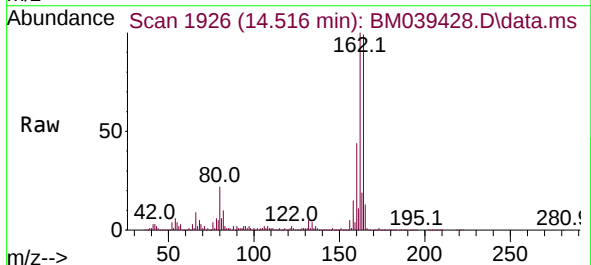
Manual Integrations
APPROVED

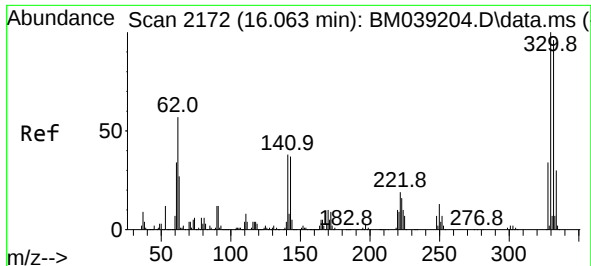
Reviewed By :Christian Giraldo 04/14/2023
Supervised By :Jagrut Upadhyay 04/14/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.516 min Scan# 1926
Delta R.T. 0.000 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

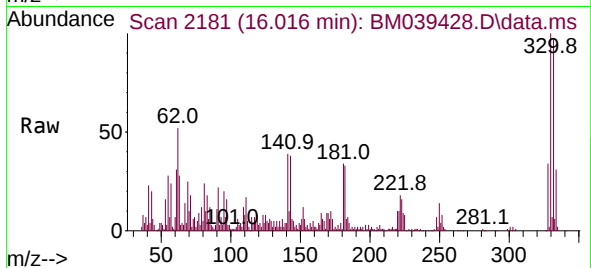
Tgt Ion:164 Resp: 631039
Ion Ratio Lower Upper
164 100
162 101.0 79.1 118.7
160 44.5 35.8 53.8





#42
2,4,6-Tribromophenol
Concen: 14.171 ng
RT: 16.016 min Scan# 2172
Delta R.T. 0.000 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

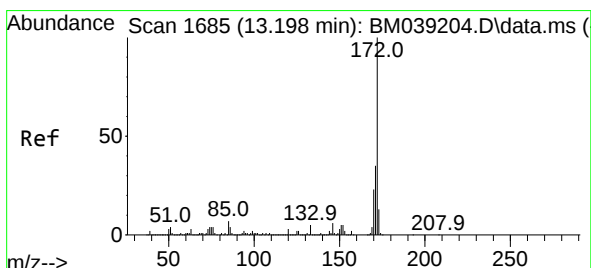
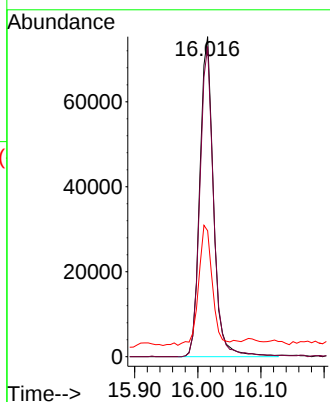
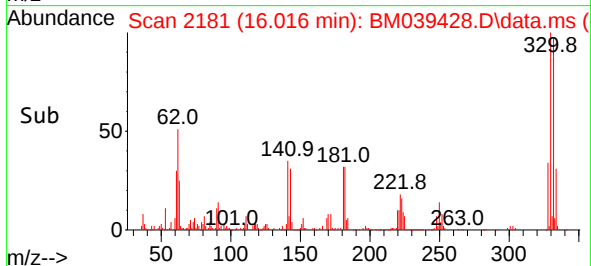
Instrument :
BNA_M
ClientSampleId :
VNJ-232



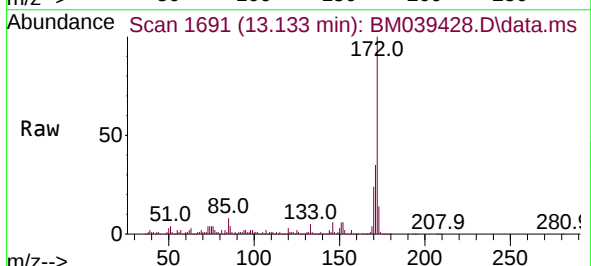
Tgt Ion:330 Resp: 113512
Ion Ratio Lower Upper
330 100
332 97.0 77.4 116.0
141 37.1 29.8 44.6

Manual Integrations
APPROVED

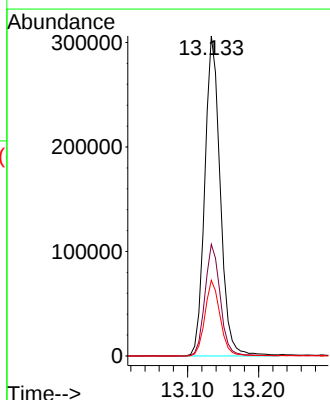
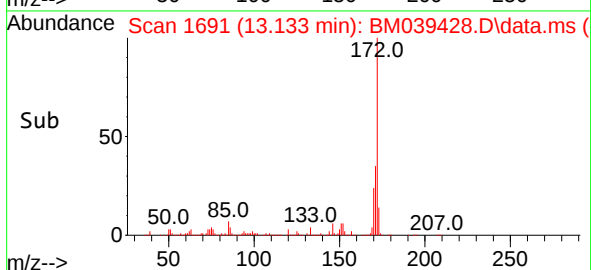
Reviewed By :Christian Giraldo 04/14/2023
Supervised By :Jagrut Upadhyay 04/14/2023

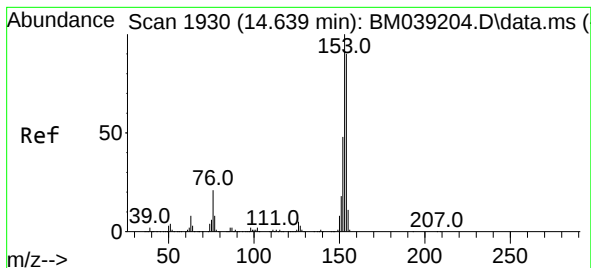


#45
2-Fluorobiphenyl
Concen: 9.983 ng
RT: 13.133 min Scan# 1691
Delta R.T. -0.006 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50



Tgt Ion:172 Resp: 464928
Ion Ratio Lower Upper
172 100
171 34.9 28.0 42.0
170 23.6 18.7 28.1





#52

Acenaphthene

Concen: 3.607 ng

RT: 14.580 min Scan# 1930

Delta R.T. -0.006 min

Lab File: BM039428.D

Acq: 14 Apr 2023 01:50

Instrument :

BNA_M

ClientSampleId :

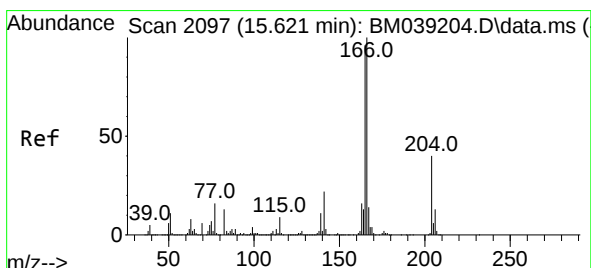
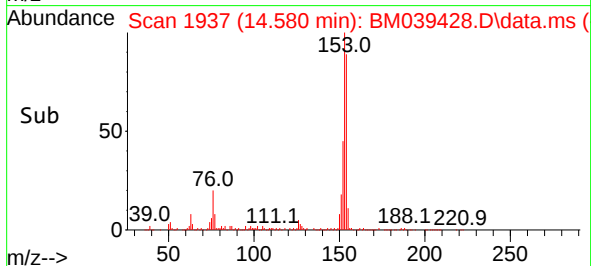
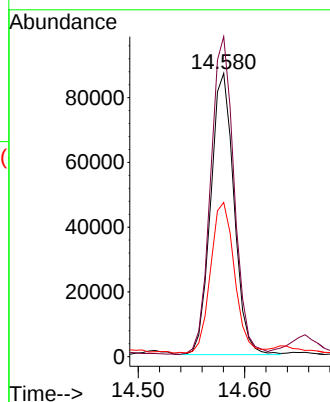
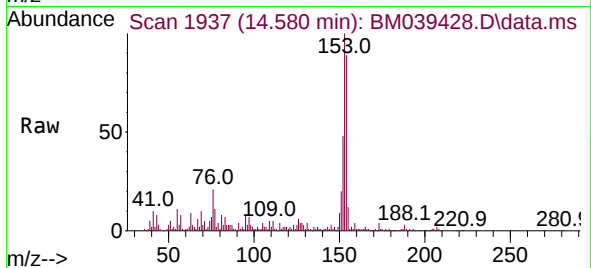
VNJ-232

Tgt Ion:154 Resp: 132094
 Ion Ratio Lower Upper
 154 100
 153 112.9 89.1 133.7
 152 54.4 42.6 64.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/14/2023
 Supervised By :Jagrut Upadhyay 04/14/2023



#58

Fluorene

Concen: 5.749 ng

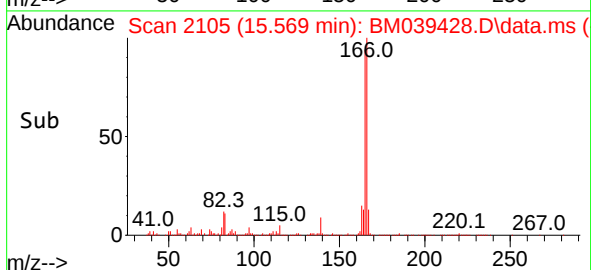
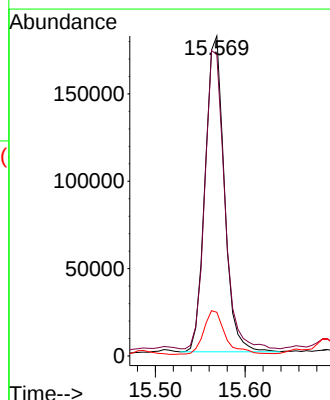
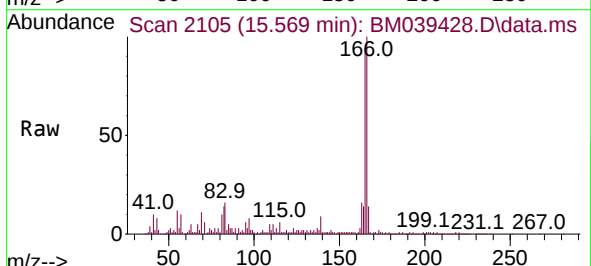
RT: 15.569 min Scan# 2105

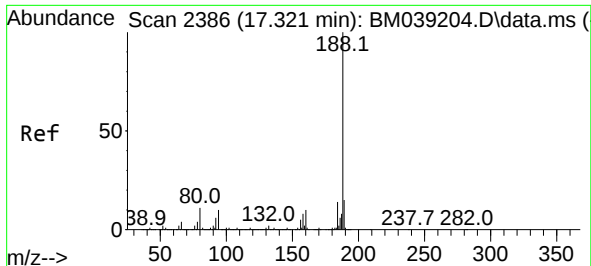
Delta R.T. 0.000 min

Lab File: BM039428.D

Acq: 14 Apr 2023 01:50

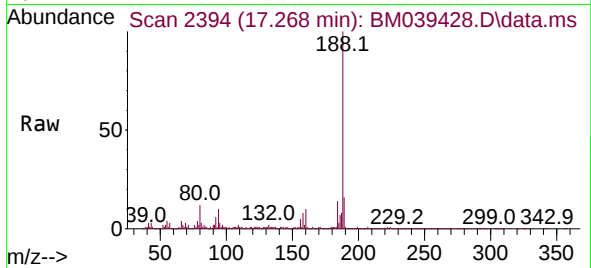
Tgt Ion:166 Resp: 268379
 Ion Ratio Lower Upper
 166 100
 165 94.2 76.9 115.3
 167 13.6 10.8 16.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.268 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

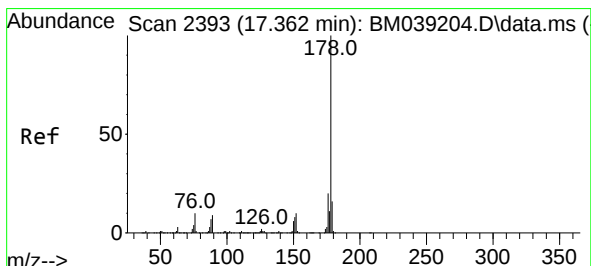
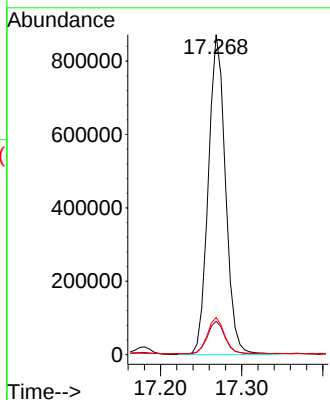
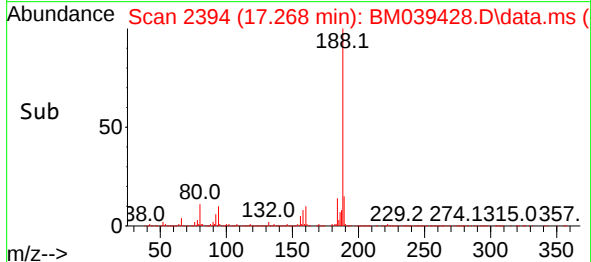
Instrument :
BNA_M
ClientSampleId :
VNJ-232



Tgt Ion:188 Resp: 1276792
Ion Ratio Lower Upper
188 100
94 10.4 8.2 12.4
80 11.6 8.9 13.3

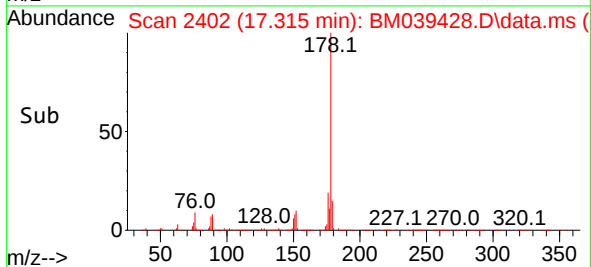
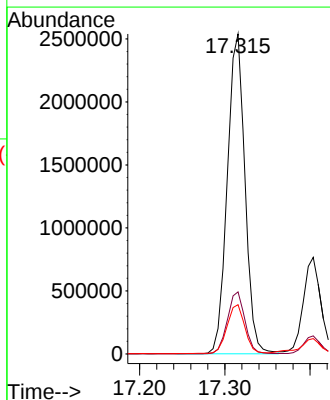
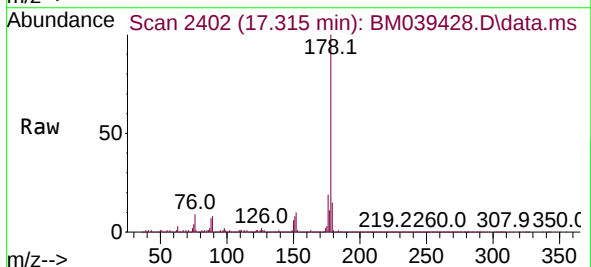
Manual Integrations
APPROVED

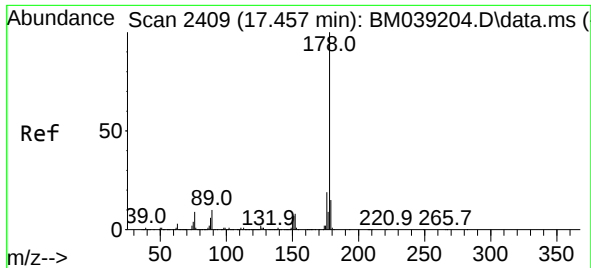
Reviewed By :Christian Giraldo 04/14/2023
Supervised By :Jagrut Upadhyay 04/14/2023



#71
Phenanthrene
Concen: 52.216 ng
RT: 17.315 min Scan# 2402
Delta R.T. 0.006 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

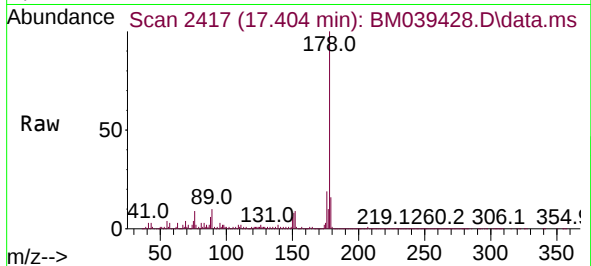
Tgt Ion:178 Resp: 3651375
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 15.4 12.4 18.6





#72
 Anthracene
 Concen: 14.848 ng
 RT: 17.404 min Scan# 2409
 Delta R.T. 0.000 min
 Lab File: BM039428.D
 Acq: 14 Apr 2023 01:50

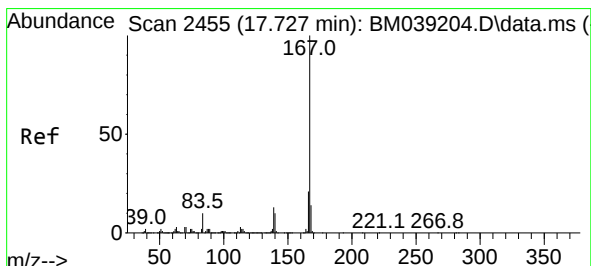
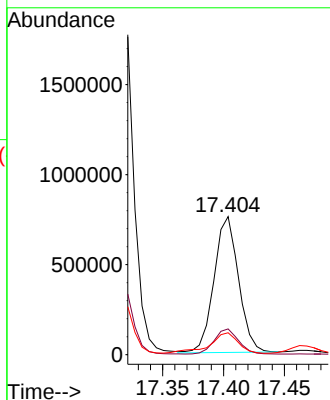
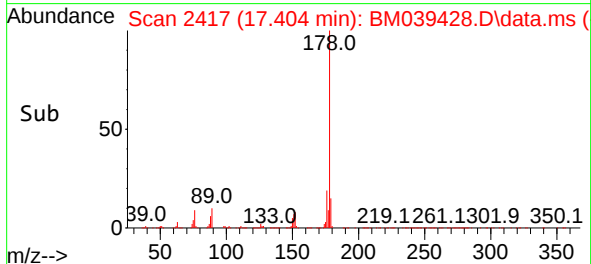
Instrument :
 BNA_M
 ClientSampleId :
 VNJ-232



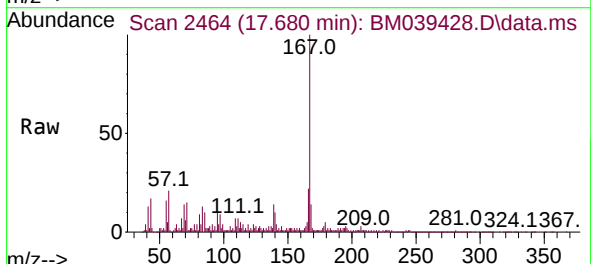
Tgt Ion:178 Resp: 1058749
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.9 22.3
 179 15.8 12.2 18.2

Manual Integrations
 APPROVED

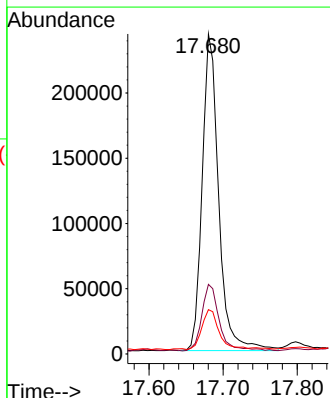
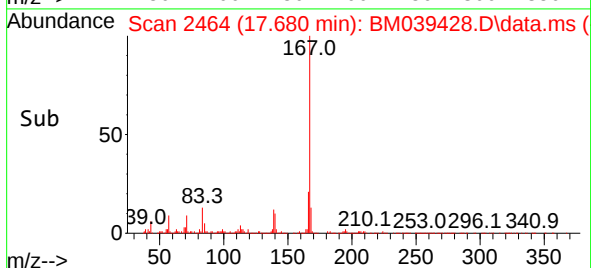
Reviewed By :Christian Giraldo 04/14/2023
 Supervised By :Jagrut Upadhyay 04/14/2023

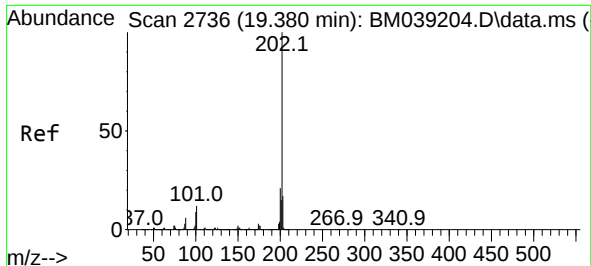


#73
 Carbazole
 Concen: 5.628 ng
 RT: 17.680 min Scan# 2464
 Delta R.T. 0.000 min
 Lab File: BM039428.D
 Acq: 14 Apr 2023 01:50



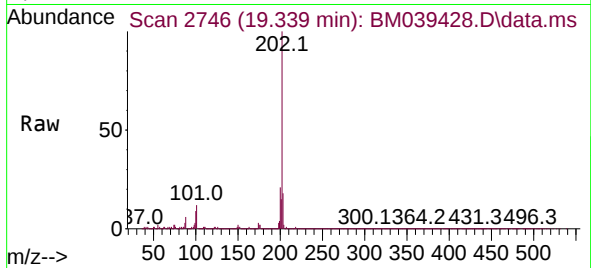
Tgt Ion:167 Resp: 374974
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.2 25.8
 139 13.8 10.6 16.0





#75
Fluoranthene
Concen: 74.977 ng
RT: 19.339 min Scan# 21
Delta R.T. 0.006 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

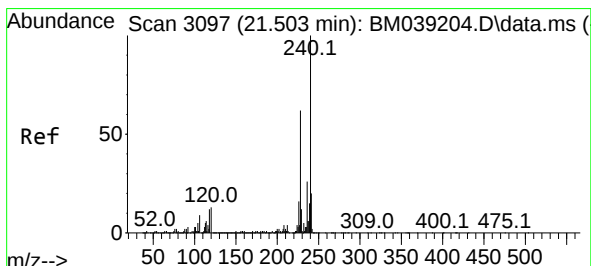
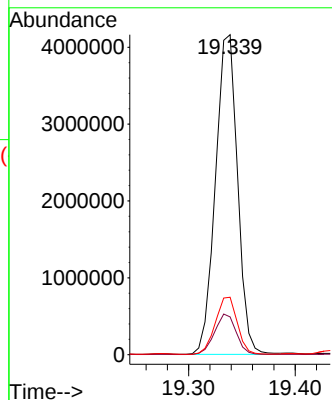
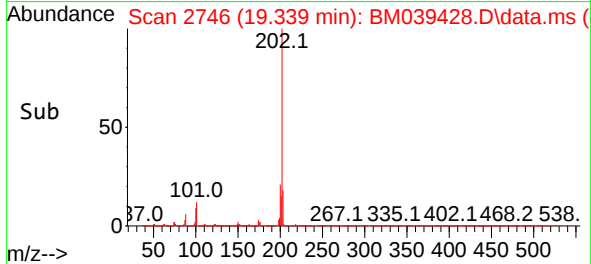
Instrument :
BNA_M
ClientSampleId :
VNJ-232



Tgt Ion:202 Resp: 597656
Ion Ratio Lower Upper
202 100
101 11.8 0.0 32.5
203 18.0 0.0 37.5

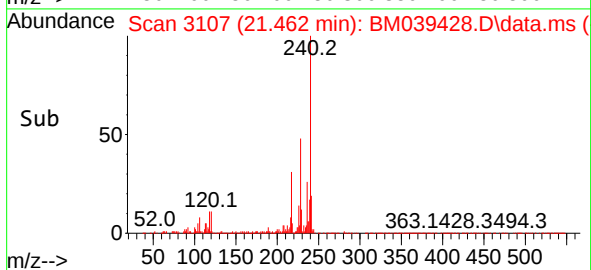
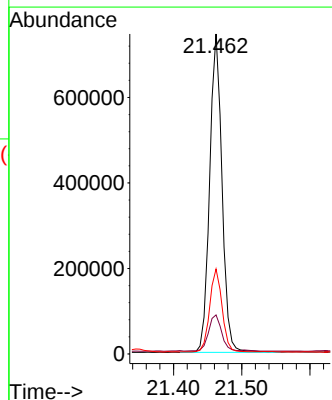
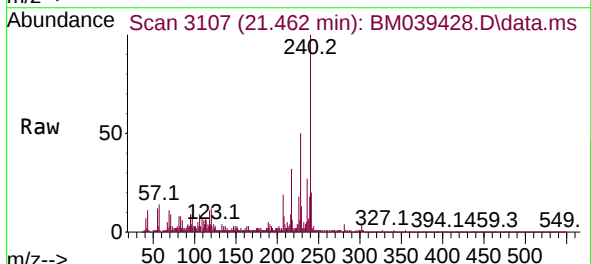
Manual Integrations
APPROVED

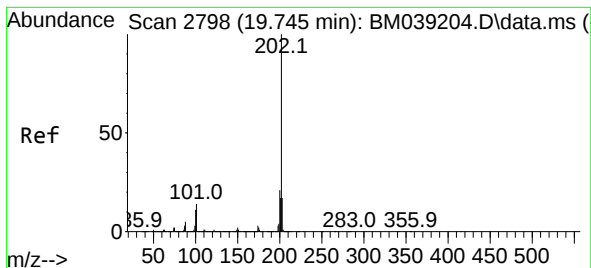
Reviewed By :Christian Giraldo 04/14/2023
Supervised By :Jagrut Upadhyay 04/14/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.462 min Scan# 3107
Delta R.T. 0.000 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

Tgt Ion:240 Resp: 941732
Ion Ratio Lower Upper
240 100
120 12.2 10.2 15.2
236 26.5 20.9 31.3





#78

Pyrene

Concen: 70.120 ng

RT: 19.698 min Scan# 2807

Delta R.T. 0.000 min

Lab File: BM039428.D

Acq: 14 Apr 2023 01:50

Instrument :

BNA_M

ClientSampleId :

VNJ-232

Tgt Ion:202 Resp: 4700914

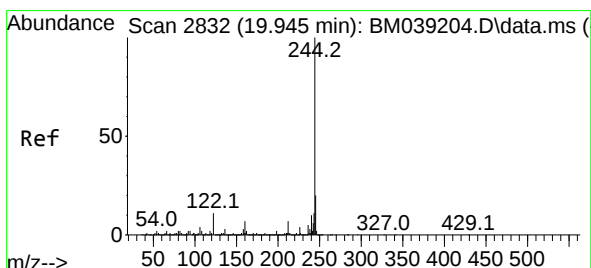
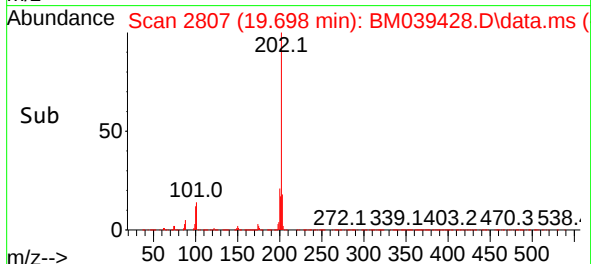
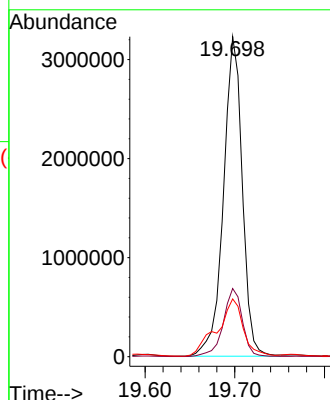
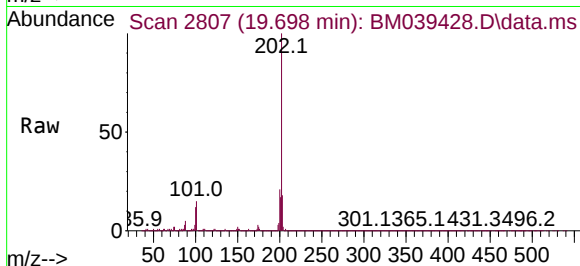
Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	18.0	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/14/2023

Supervised By :Jagrut Upadhyay 04/14/2023



#79

Terphenyl-d14

Concen: 11.877 ng

RT: 19.898 min Scan# 2841

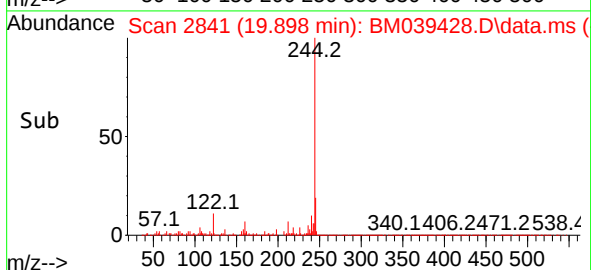
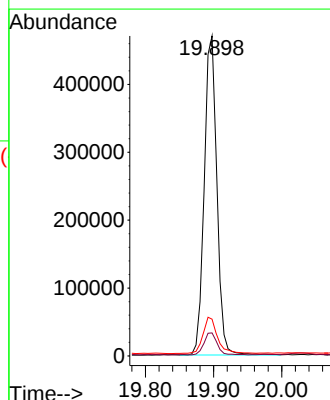
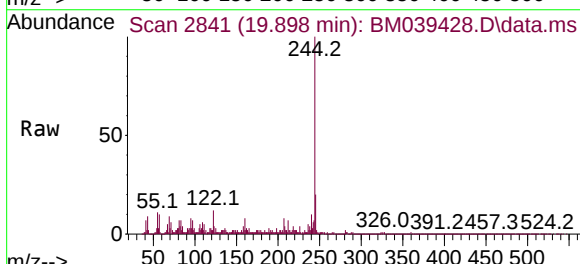
Delta R.T. 0.000 min

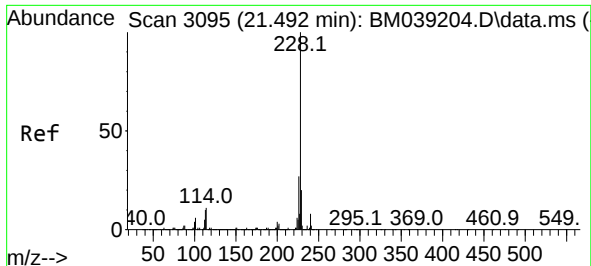
Lab File: BM039428.D

Acq: 14 Apr 2023 01:50

Tgt Ion:244 Resp: 605377

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.6	8.4
122	11.5	9.1	13.7





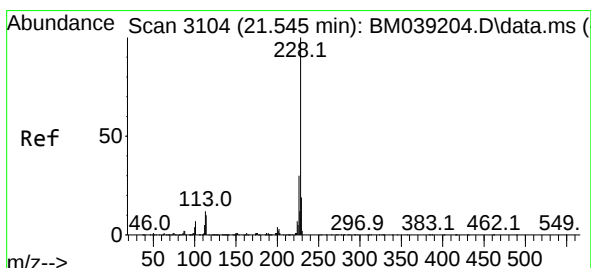
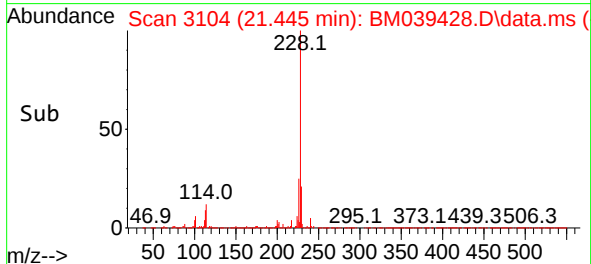
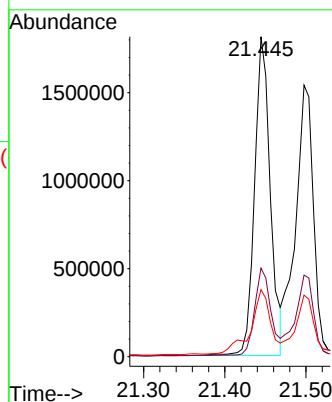
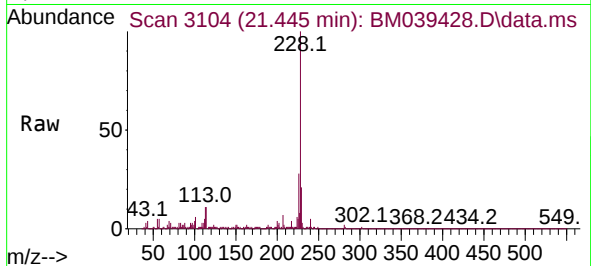
#81
Benzo(a)anthracene
Concen: 36.786 ng
RT: 21.445 min Scan# 3113
Delta R.T. 0.000 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

Instrument :
BNA_M
ClientSampleId :
VNJ-232

Tgt Ion:228 Resp: 244321
Ion Ratio Lower Upper
228 100
226 27.7 21.9 32.9
229 21.0 15.8 23.6

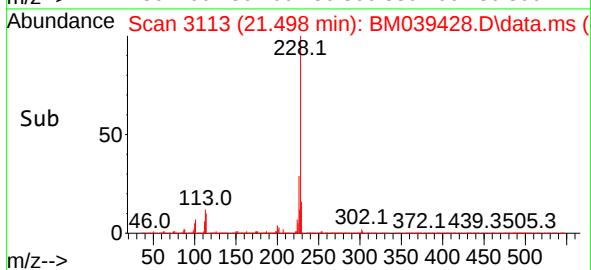
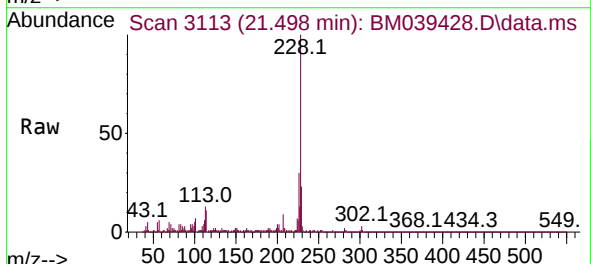
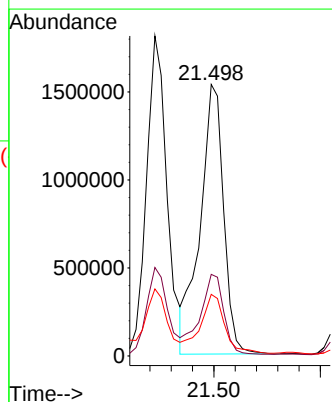
Manual Integrations
APPROVED

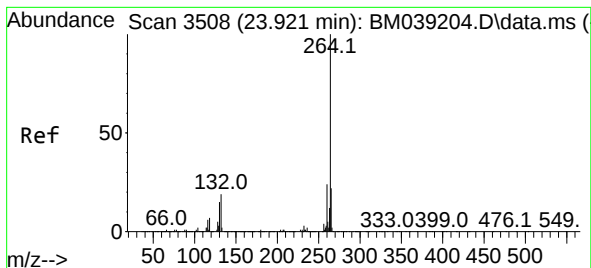
Reviewed By :Christian Giraldo 04/14/2023
Supervised By :Jagrut Upadhyay 04/14/2023



#83
Chrysene
Concen: 36.712 ng
RT: 21.498 min Scan# 3113
Delta R.T. -0.006 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

Tgt Ion:228 Resp: 2353857
Ion Ratio Lower Upper
228 100
226 30.1 24.1 36.1
229 22.7 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.856 min Scan# 3508

Delta R.T. 0.006 min

Lab File: BM039428.D

Acq: 14 Apr 2023 01:50

Instrument :

BNA_M

ClientSampleId :

VNJ-232

Tgt Ion:264 Resp: 108165

Ion Ratio Lower Upper

264 100

260 24.8 19.0 28.6

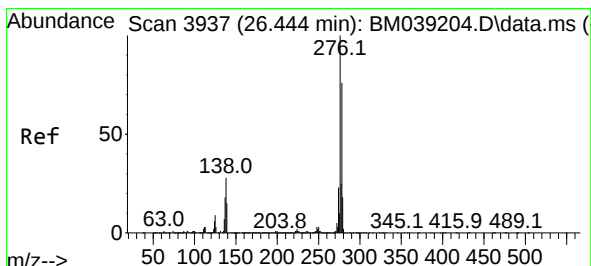
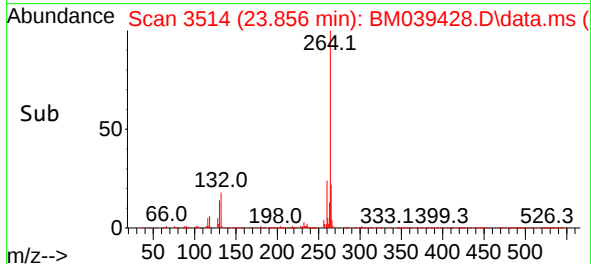
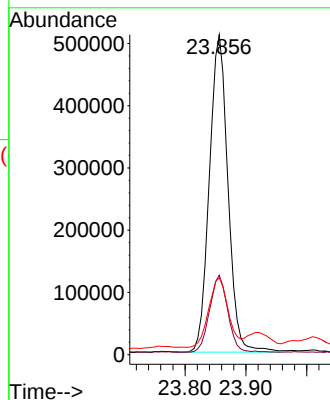
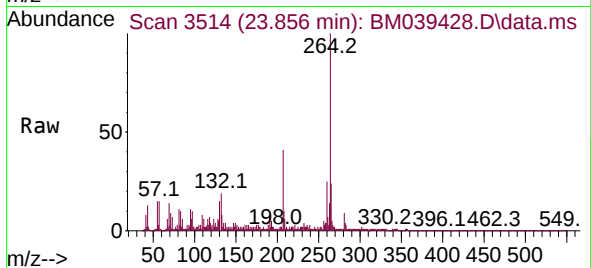
265 24.0 18.1 27.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/14/2023

Supervised By :Jagrut Upadhyay 04/14/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 17.143 ng

RT: 26.344 min Scan# 3937

Delta R.T. 0.006 min

Lab File: BM039428.D

Acq: 14 Apr 2023 01:50

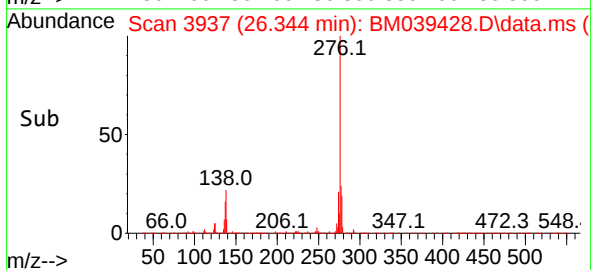
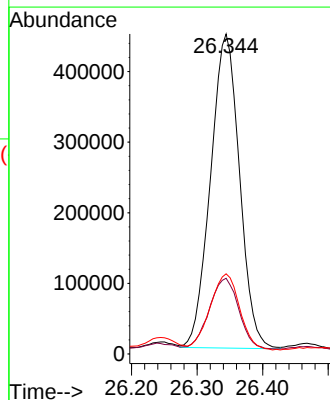
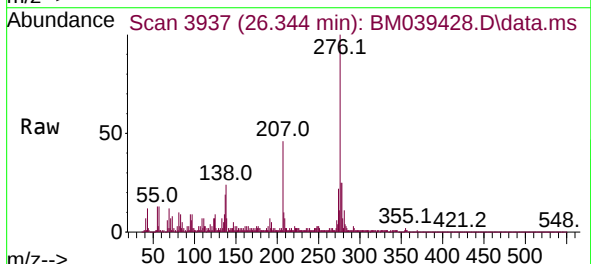
Tgt Ion:276 Resp: 1366241

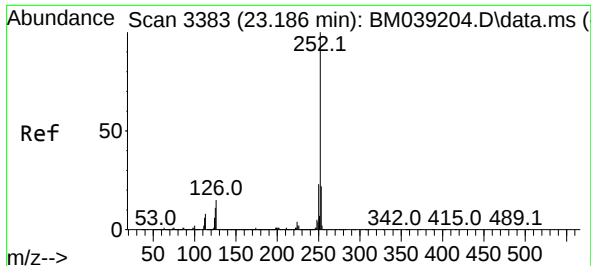
Ion Ratio Lower Upper

276 100

138 23.6 22.2 33.2

277 24.8 20.2 30.2





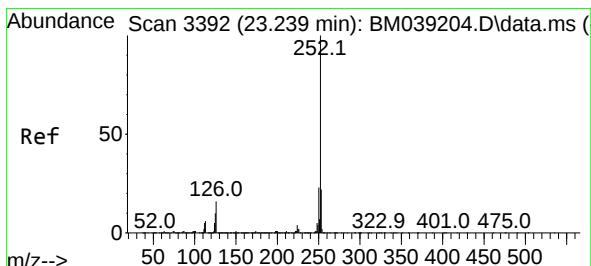
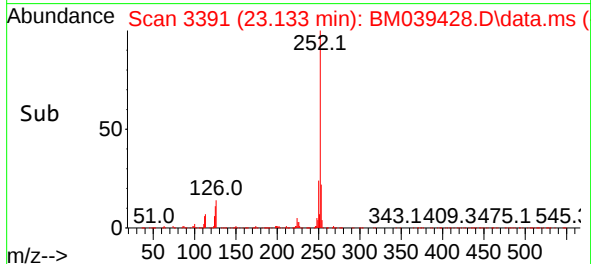
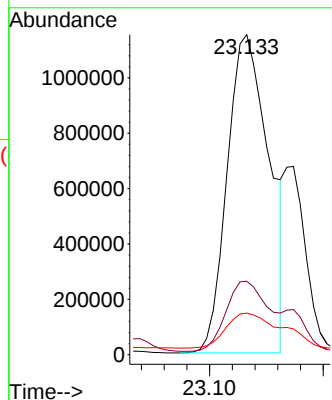
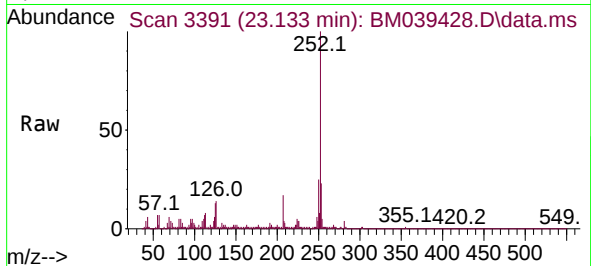
#88
Benzo(b)fluoranthene
Concen: 44.491 ng
RT: 23.133 min Scan# 3383
Delta R.T. 0.006 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

Instrument :
BNA_M
ClientSampleId :
VNJ-232

Tgt Ion:252 Resp: 2944604
Ion Ratio Lower Upper
252 100
253 23.0 17.6 26.4
125 13.0 9.0 13.6

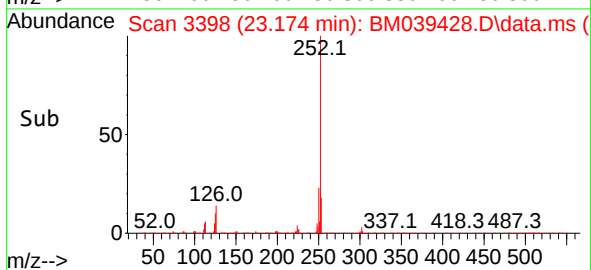
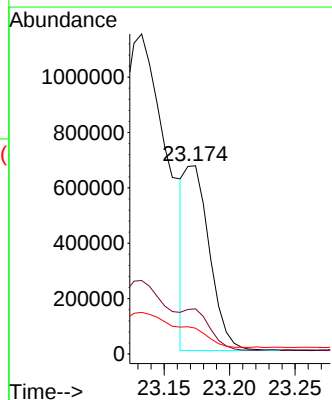
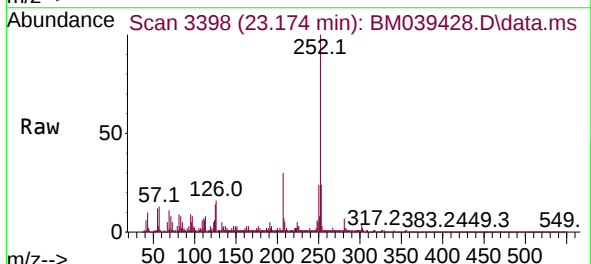
Manual Integrations
APPROVED

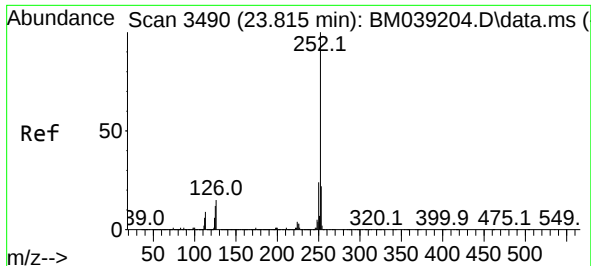
Reviewed By :Christian Giraldo 04/14/2023
Supervised By :Jagrut Upadhyay 04/14/2023



#89
Benzo(k)fluoranthene
Concen: 12.924 ng m
RT: 23.174 min Scan# 3398
Delta R.T. 0.000 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

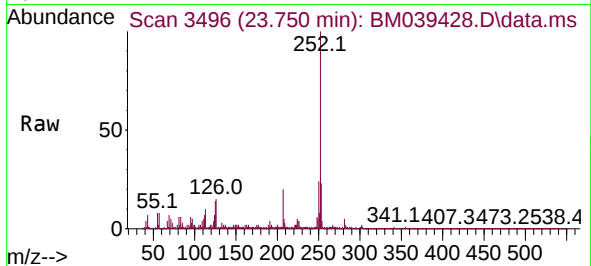
Tgt Ion:252 Resp: 871267
Ion Ratio Lower Upper
252 100
253 24.0 17.8 26.8
125 13.7 8.5 12.7#





#90
Benzo(a)pyrene
Concen: 30.237 ng
RT: 23.750 min Scan# 3490
Delta R.T. 0.000 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50

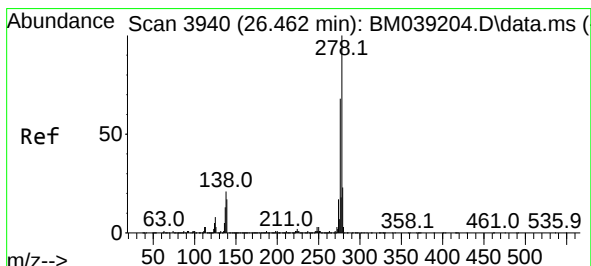
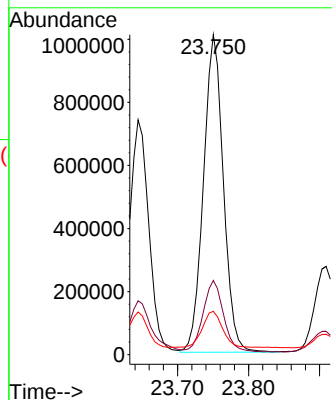
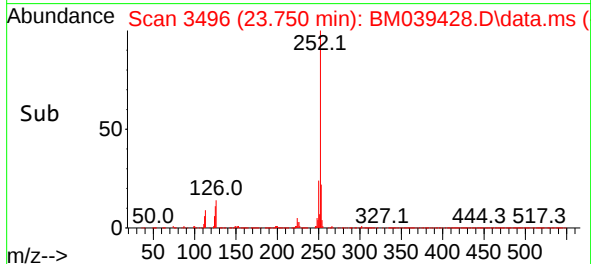
Instrument :
BNA_M
ClientSampleId :
VNJ-232



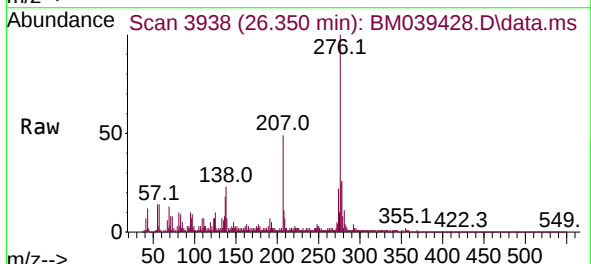
Tgt Ion:252 Resp: 1965919
Ion Ratio Lower Upper
252 100
253 23.2 17.6 26.4
125 13.6 9.8 14.6

Manual Integrations
APPROVED

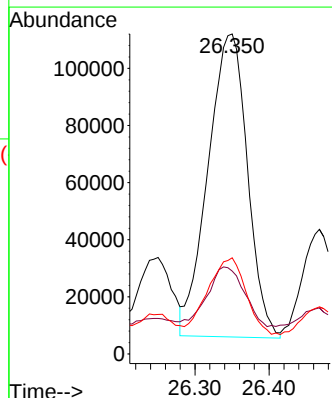
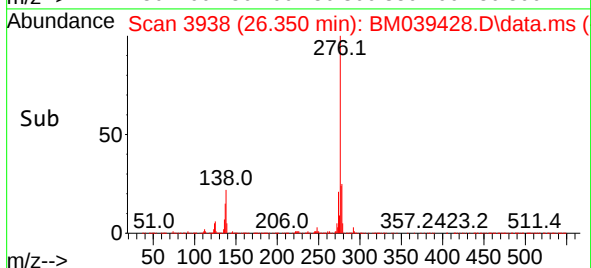
Reviewed By :Christian Giraldo 04/14/2023
Supervised By :Jagrut Upadhyay 04/14/2023

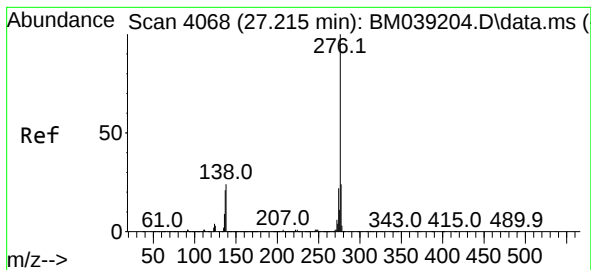


#91
Dibenzo(a,h)anthracene
Concen: 5.853 ng
RT: 26.350 min Scan# 3938
Delta R.T. 0.000 min
Lab File: BM039428.D
Acq: 14 Apr 2023 01:50



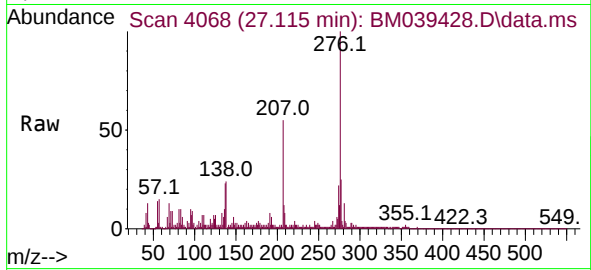
Tgt Ion:278 Resp: 391695
Ion Ratio Lower Upper
278 100
139 25.9 13.9 20.9#
279 30.1 18.8 28.2#





#92
 Benzo(g,h,i)perylene
 Concen: 20.440 ng
 RT: 27.115 min Scan# 4068
 Delta R.T. 0.012 min
 Lab File: BM039428.D
 Acq: 14 Apr 2023 01:50

Instrument :
 BNA_M
 ClientSampleId :
 VNJ-232



Tgt Ion: 276 Resp: 1345179
 Ion Ratio Lower Upper
 276 100
 277 24.8 19.1 28.7
 138 24.0 19.5 29.3

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/14/2023
 Supervised By : Jagrut Upadhyay 04/14/2023

