

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032123\
 Data File : BM039075.D
 Acq On : 21 Mar 2023 18:58
 Operator : CG/JU
 Sample : 02001-07
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 IRV-3

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/22/2023
 Supervised By : Jagrut Upadhyay 03/22/2023

Quant Time: Mar 22 03:42:58 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	288459	20.000	ng	0.00
21) Naphthalene-d8	10.780	136	1146319	20.000	ng	0.00
39) Acenaphthene-d10	14.604	164	638357	20.000	ng	0.00
64) Phenanthrene-d10	17.351	188	1259965	20.000	ng	0.00
76) Chrysene-d12	21.533	240	1305160	20.000	ng	0.00
86) Perylene-d12	23.962	264	1557007	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	2367167	124.677	ng	0.00
7) Phenol-d6	7.128	99	3074362	124.662	ng	0.00
23) Nitrobenzene-d5	9.133	82	1817833	77.896	ng	0.00
42) 2,4,6-Tribromophenol	16.092	330	860486	116.522	ng	0.00
45) 2-Fluorobiphenyl	13.233	172	3435002	70.050	ng	0.00
79) Terphenyl-d14	19.974	244	4648949	65.125	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	14.327	152	205228	3.159	ng	98
71) Phenanthrene	17.392	178	446762	6.042	ng	100
72) Anthracene	17.480	178	183245	2.485	ng	99
75) Fluoranthene	19.403	202	1798827	23.039	ng	99
78) Pyrene	19.768	202	1863805	19.013	ng	100
81) Benzo(a)anthracene	21.515	228	1447968	15.405	ng	97
83) Chrysene	21.568	228	1300420	14.226	ng	99
87) Indeno(1,2,3-cd)pyrene	26.485	276	863325	7.287	ng	96
88) Benzo(b)fluoranthene	23.221	252	1807101	18.167	ng	98
89) Benzo(k)fluoranthene	23.268	252	557687m	5.387	ng	
90) Benzo(a)pyrene	23.856	252	1395170	14.573	ng	99
91) Dibenzo(a,h)anthracene	26.497	278	229746	2.290	ng	# 80
92) Benzo(g,h,i)perylene	27.262	276	793252	8.081	ng	97

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

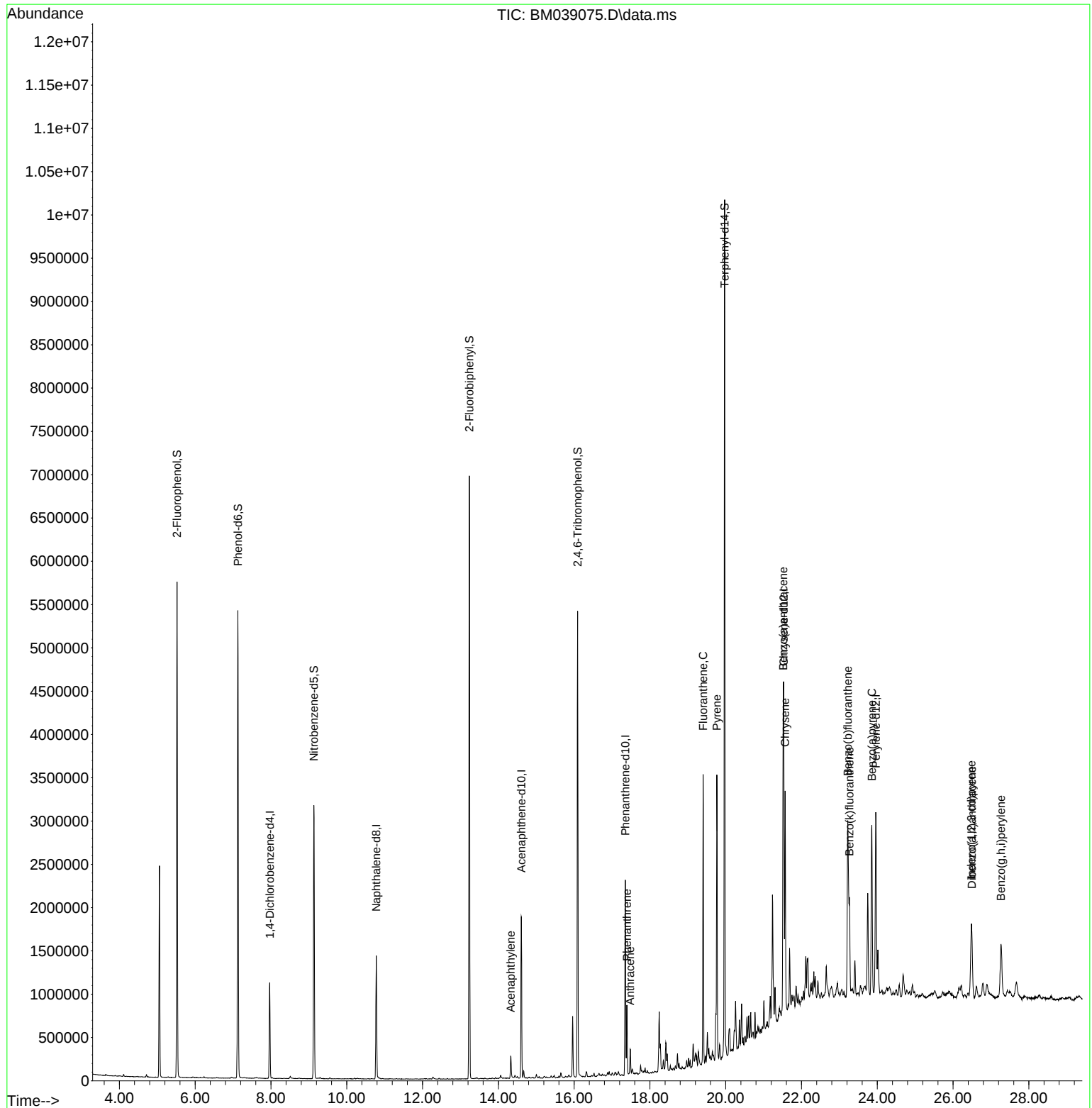
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032123\
Data File : BM039075.D
Acq On : 21 Mar 2023 18:58
Operator : CG/JU
Sample : 02001-07
Misc :
ALS Vial : 12 Sample Multiplier: 1

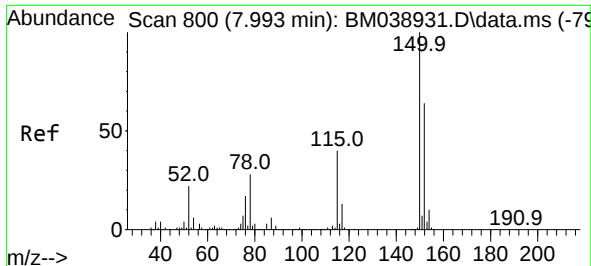
Instrument :
BNA_M
ClientSampleId :
IRV-3

Quant Time: Mar 22 03:42:58 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

Manual Integrations
APPROVED

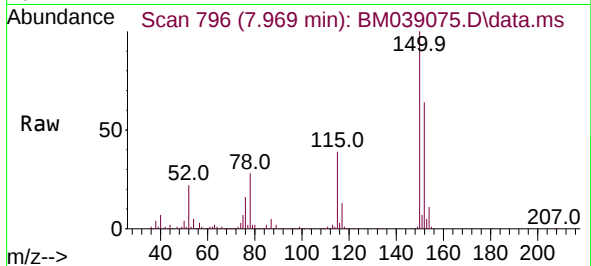
Reviewed By : Christian Giraldo 03/22/2023
Supervised By : Jagrut Upadhyay 03/22/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.969 min Scan# 79
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

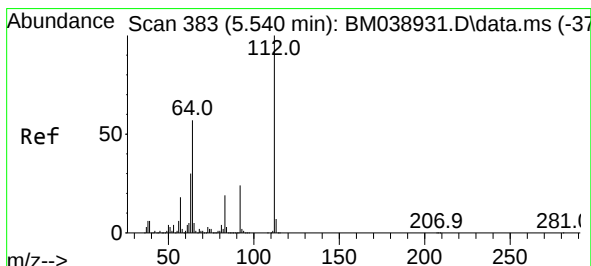
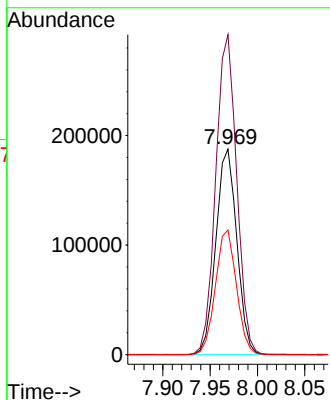
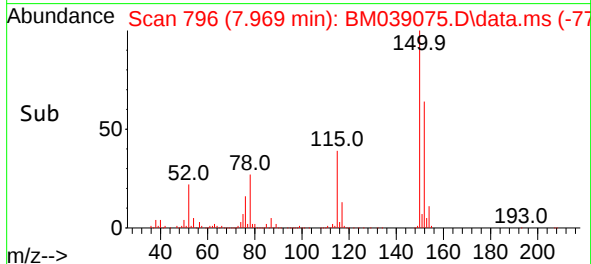
Instrument :
BNA_M
ClientSampleId :
IRV-3



Tgt Ion:152 Resp: 288459
Ion Ratio Lower Upper
152 100
150 155.6 125.1 187.7
115 60.6 49.6 74.4

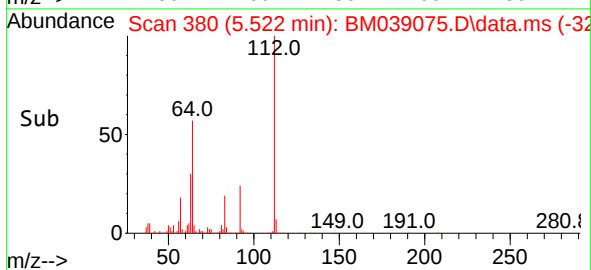
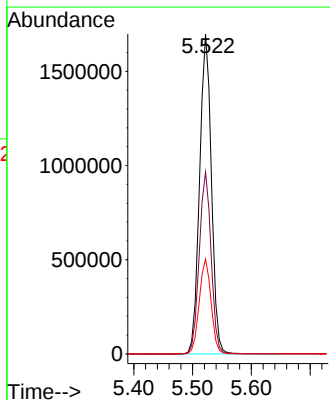
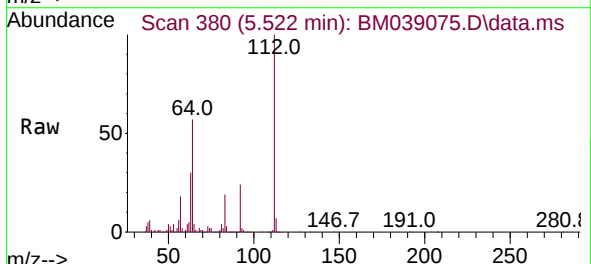
Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 03/22/2023
Supervised By :Jagrut Upadhyay 03/22/2023



#5
2-Fluorophenol
Concen: 124.677 ng
RT: 5.522 min Scan# 380
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

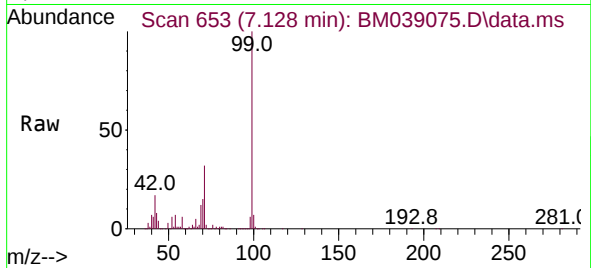
Tgt Ion:112 Resp: 2367167
Ion Ratio Lower Upper
112 100
64 56.8 45.9 68.9
63 29.6 23.8 35.8





#7
Phenol-d6
Concen: 124.662 ng
RT: 7.128 min Scan# 653
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

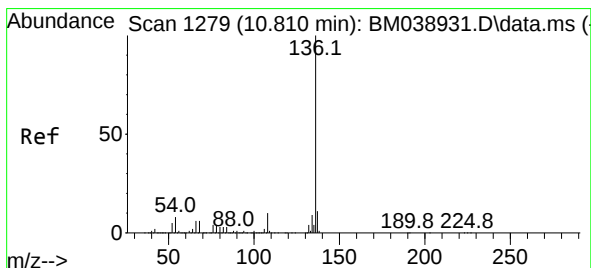
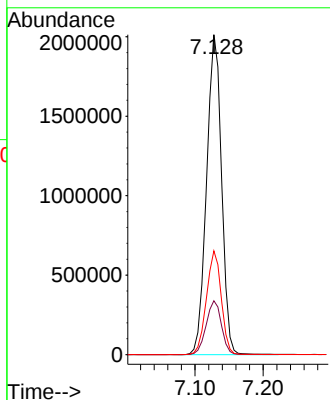
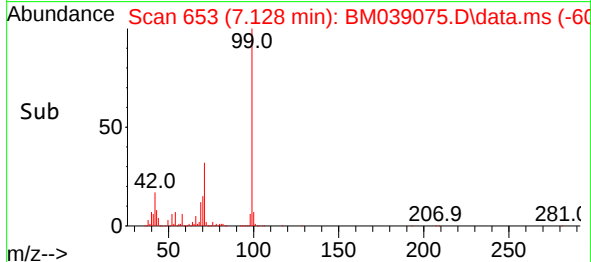
Instrument :
BNA_M
ClientSampleId :
IRV-3



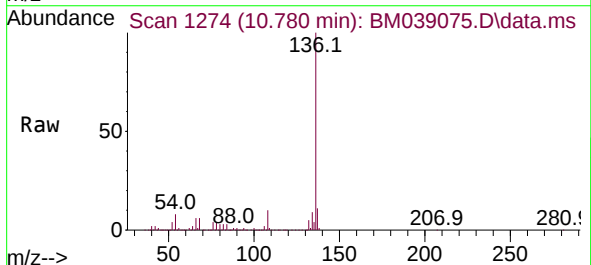
Tgt Ion: 99 Resp: 3074362
Ion Ratio Lower Upper
99 100
42 16.8 13.5 20.3
71 32.4 25.6 38.4

Manual Integrations
APPROVED

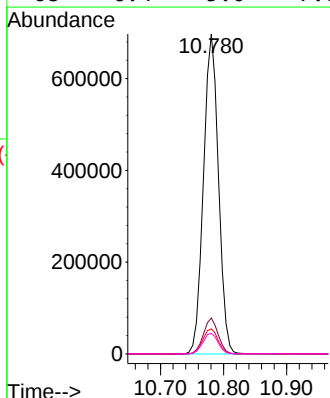
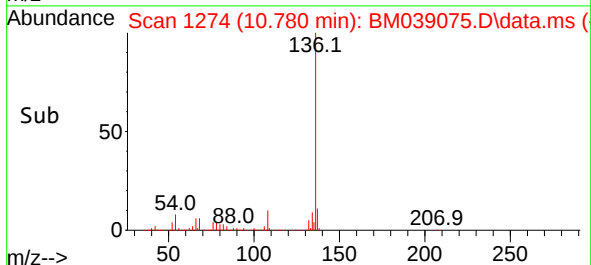
Reviewed By :Christian Giraldo 03/22/2023
Supervised By :Jagrut Upadhyay 03/22/2023

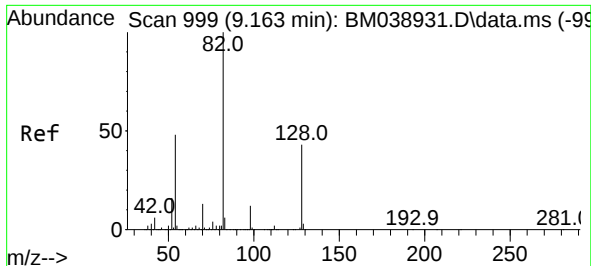


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.780 min Scan# 1274
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58



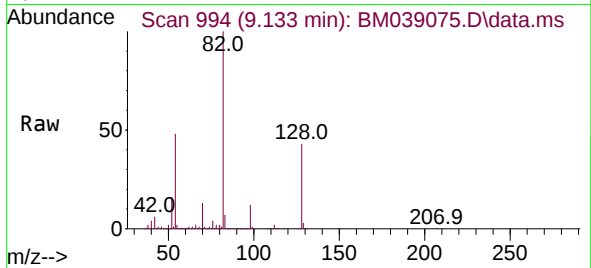
Tgt Ion:136 Resp: 1146319
Ion Ratio Lower Upper
136 100
137 11.2 8.7 13.1
54 7.8 6.3 9.5
68 6.4 5.0 7.6





#23
Nitrobenzene-d5
Concen: 77.896 ng
RT: 9.133 min Scan# 999
Delta R.T. -0.006 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

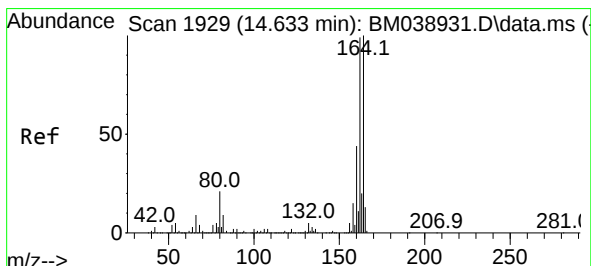
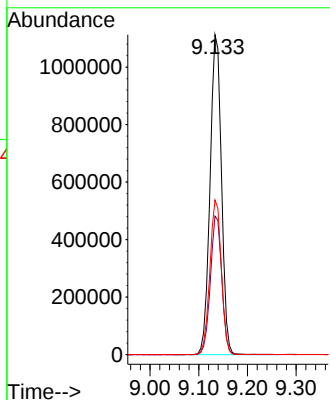
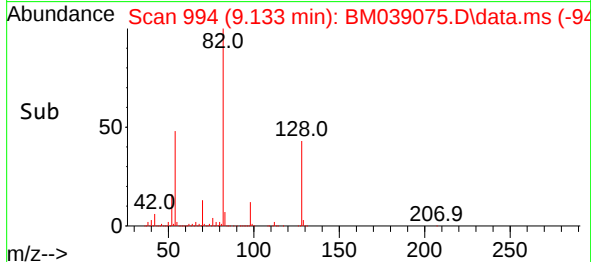
Instrument :
BNA_M
ClientSampleId :
IRV-3



Tgt Ion: 82 Resp: 1817833
Ion Ratio Lower Upper
82 100
128 43.3 34.4 51.6
54 48.3 38.8 58.2

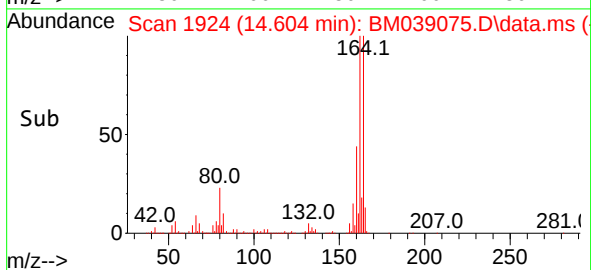
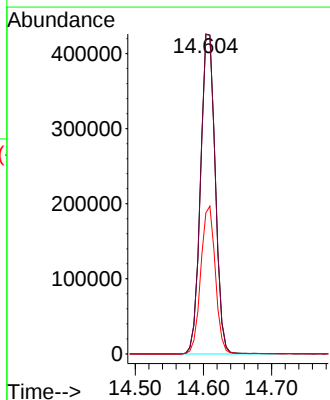
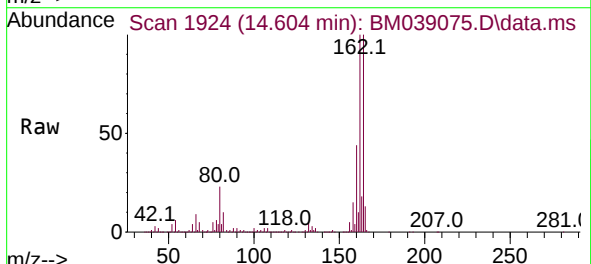
Manual Integrations
APPROVED

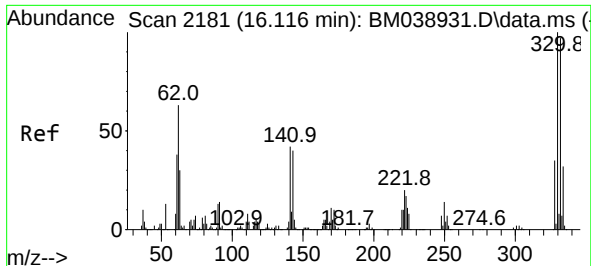
Reviewed By :Christian Giraldo 03/22/2023
Supervised By :Jagrut Upadhyay 03/22/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.604 min Scan# 1924
Delta R.T. -0.006 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

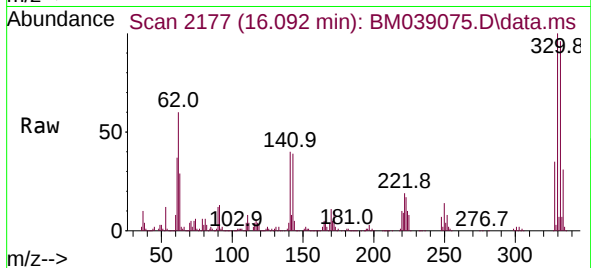
Tgt Ion:164 Resp: 638357
Ion Ratio Lower Upper
164 100
162 99.8 79.2 118.8
160 44.1 35.5 53.3





#42
2,4,6-Tribromophenol
Concen: 116.522 ng
RT: 16.092 min Scan# 2181
Delta R.T. -0.006 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

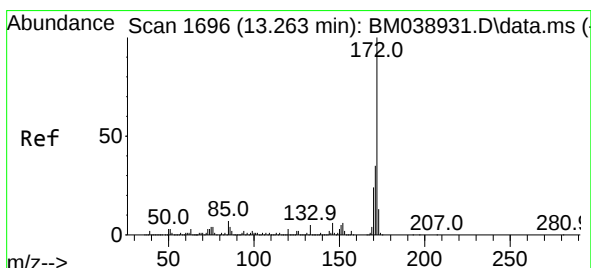
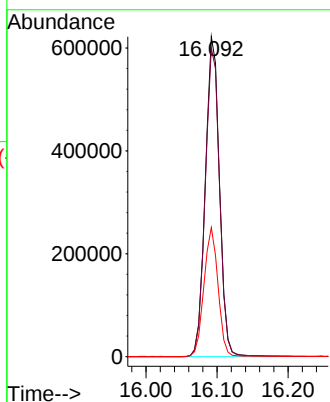
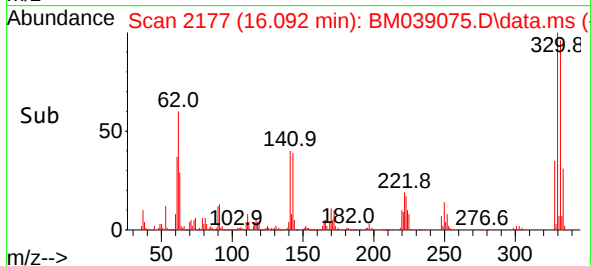
Instrument :
BNA_M
ClientSampleId :
IRV-3



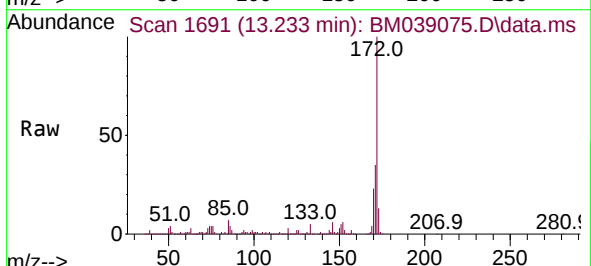
Tgt Ion:330 Resp: 860486
Ion Ratio Lower Upper
330 100
332 97.4 77.4 116.0
141 40.0 32.2 48.4

Manual Integrations
APPROVED

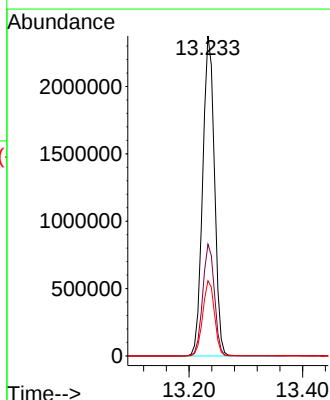
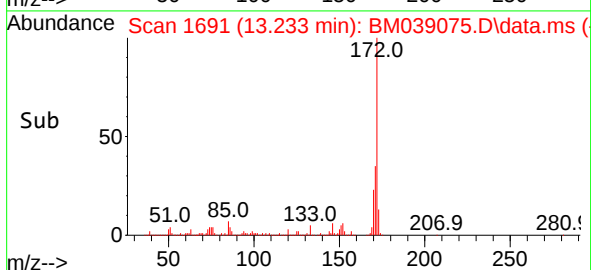
Reviewed By :Christian Giraldo 03/22/2023
Supervised By :Jagrut Upadhyay 03/22/2023

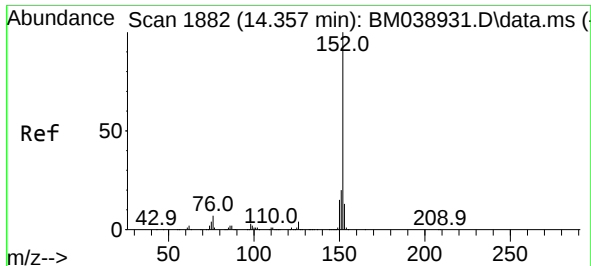


#45
2-Fluorobiphenyl
Concen: 70.050 ng
RT: 13.233 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58



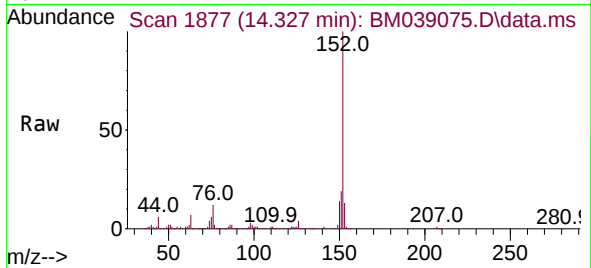
Tgt Ion:172 Resp: 3435002
Ion Ratio Lower Upper
172 100
171 34.9 28.2 42.2
170 23.5 19.1 28.7





#49
Acenaphthylene
Concen: 3.159 ng
RT: 14.327 min Scan# 1882
Delta R.T. -0.006 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

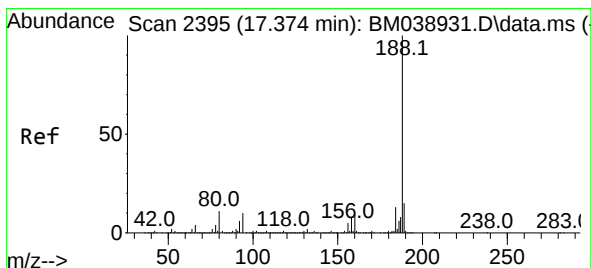
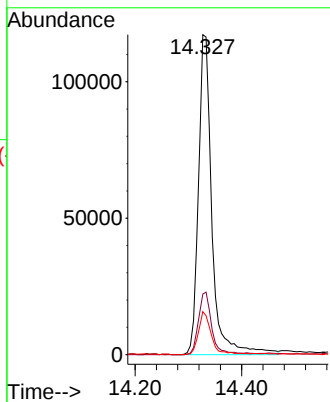
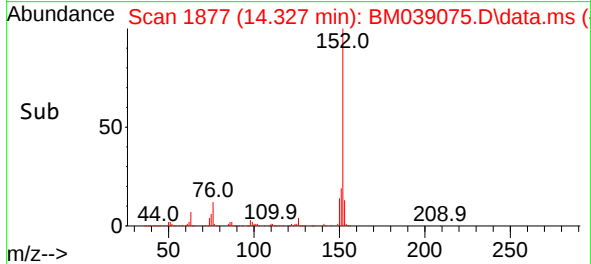
Instrument :
BNA_M
ClientSampleId :
IRV-3



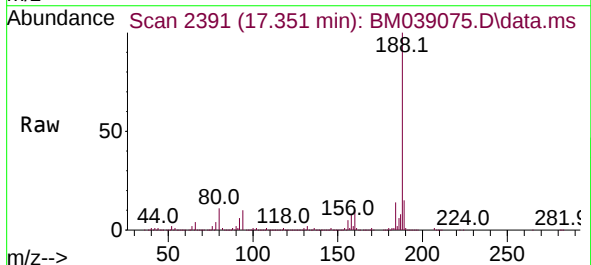
Tgt Ion:152 Resp: 205228
Ion Ratio Lower Upper
152 100
151 18.9 15.8 23.8
153 13.4 10.4 15.6

Manual Integrations
APPROVED

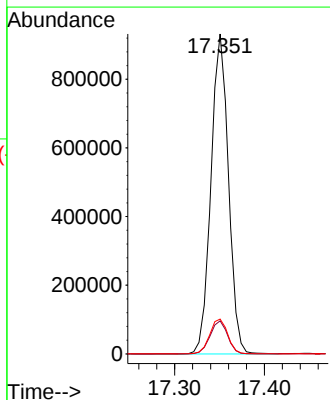
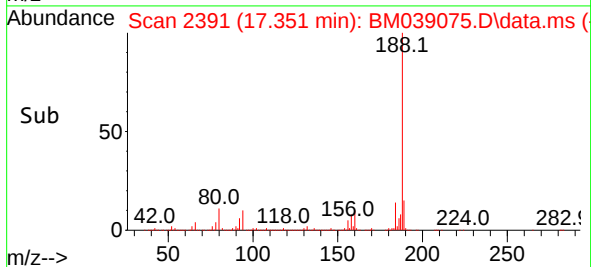
Reviewed By :Christian Giraldo 03/22/2023
Supervised By :Jagrut Upadhyay 03/22/2023

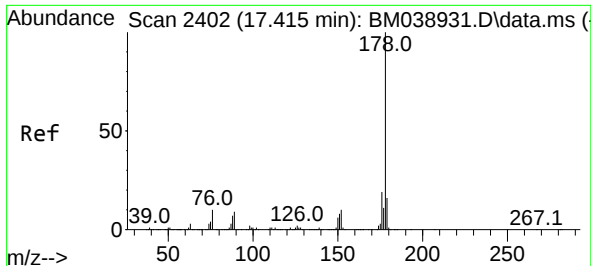


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.351 min Scan# 2391
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58



Tgt Ion:188 Resp: 1259965
Ion Ratio Lower Upper
188 100
94 10.3 7.9 11.9
80 10.9 8.5 12.7





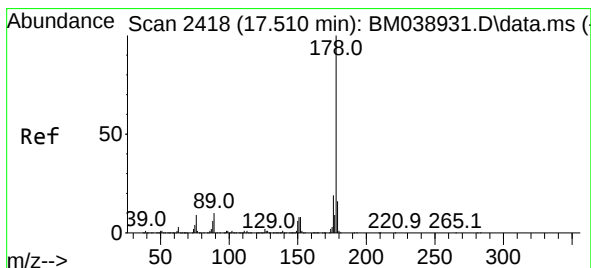
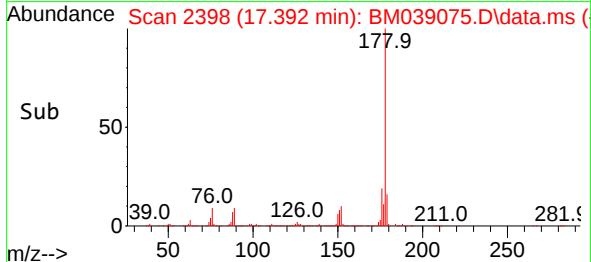
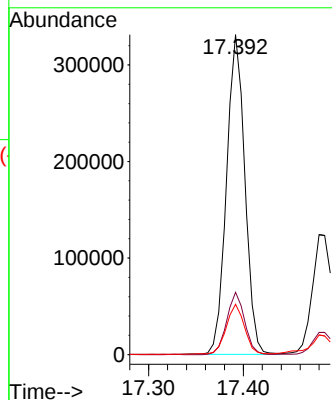
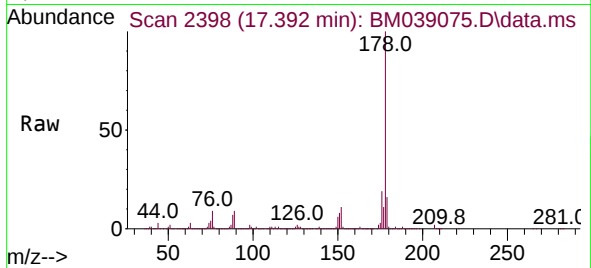
#71
Phenanthrene
Concen: 6.042 ng
RT: 17.392 min Scan# 2413
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

Instrument :
BNA_M
ClientSampleId :
IRV-3

Tgt Ion:178 Resp: 446762
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 15.7 12.5 18.7

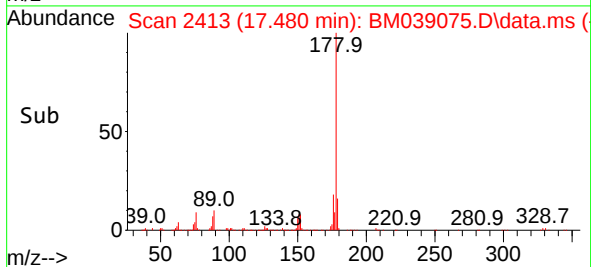
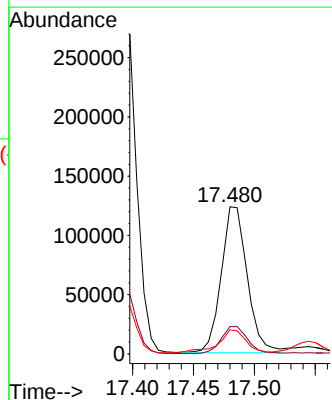
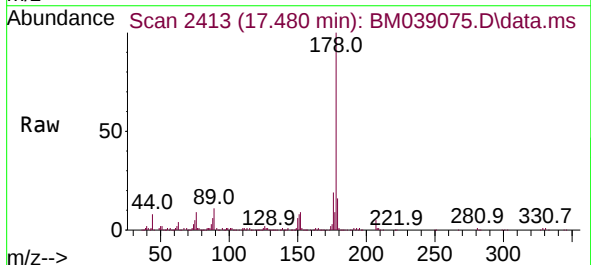
Manual Integrations
APPROVED

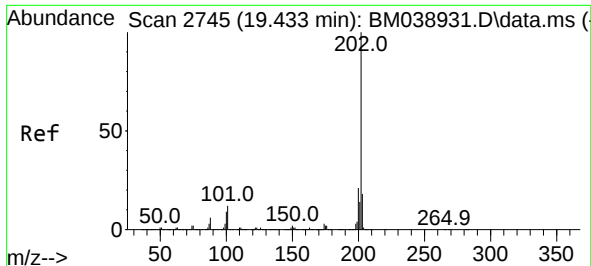
Reviewed By :Christian Giraldo 03/22/2023
Supervised By :Jagrut Upadhyay 03/22/2023



#72
Anthracene
Concen: 2.485 ng
RT: 17.480 min Scan# 2413
Delta R.T. -0.006 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

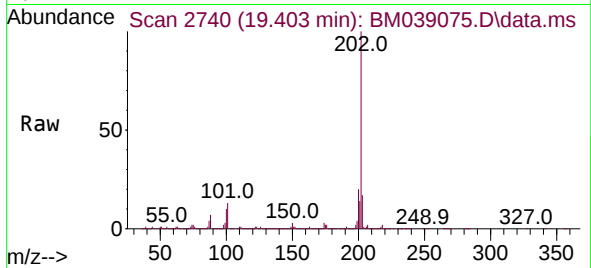
Tgt Ion:178 Resp: 183245
Ion Ratio Lower Upper
178 100
176 18.5 15.3 22.9
179 16.3 12.5 18.7





#75
Fluoranthene
Concen: 23.039 ng
RT: 19.403 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

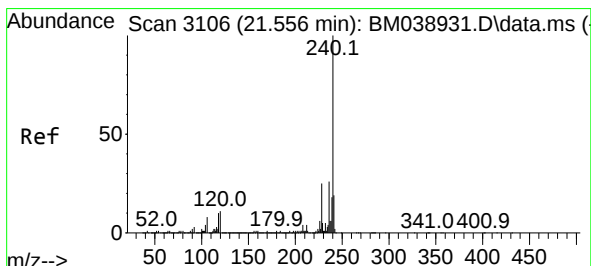
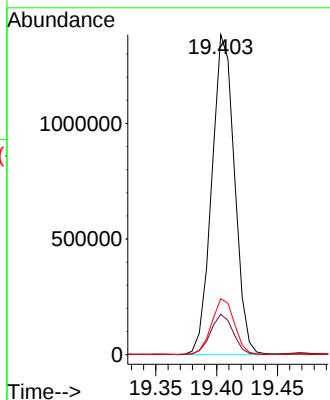
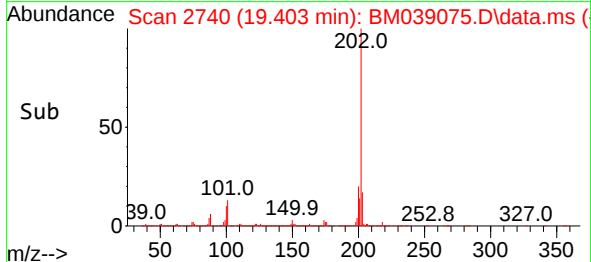
Instrument :
BNA_M
ClientSampleId :
IRV-3



Tgt Ion:202 Resp: 179882
Ion Ratio Lower Upper
202 100
101 12.6 0.0 31.7
203 17.5 0.0 37.6

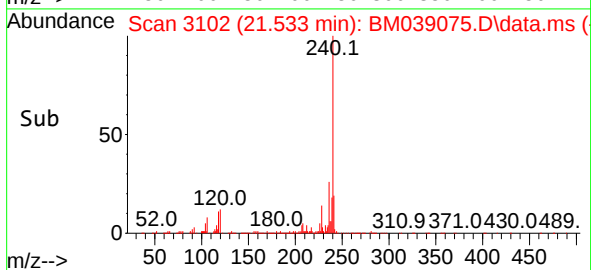
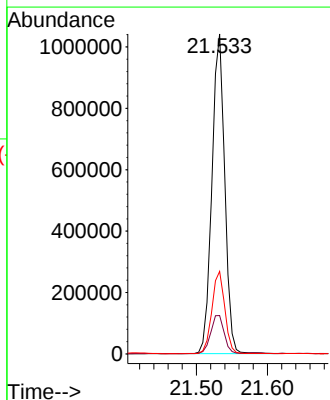
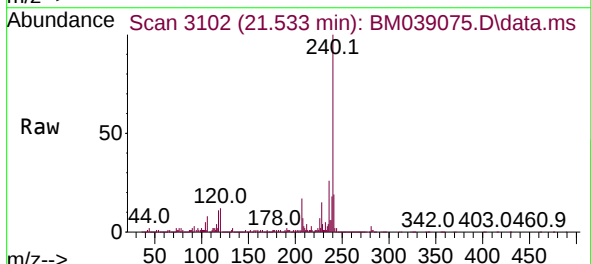
Manual Integrations
APPROVED

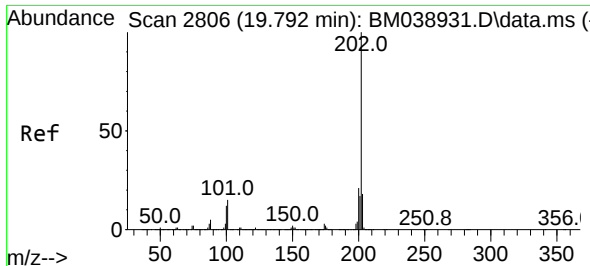
Reviewed By :Christian Giraldo 03/22/2023
Supervised By :Jagrut Upadhyay 03/22/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.533 min Scan# 3102
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

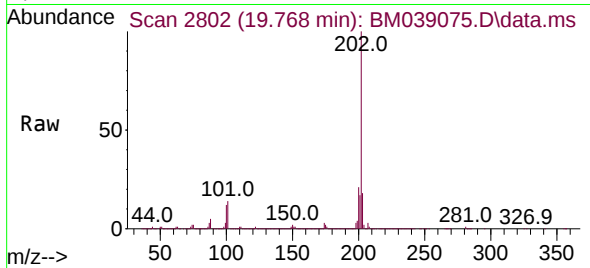
Tgt Ion:240 Resp: 1305160
Ion Ratio Lower Upper
240 100
120 12.0 9.2 13.8
236 25.8 20.8 31.2





#78
 Pyrene
 Concen: 19.013 ng
 RT: 19.768 min Scan# 2806
 Delta R.T. -0.000 min
 Lab File: BM039075.D
 Acq: 21 Mar 2023 18:58

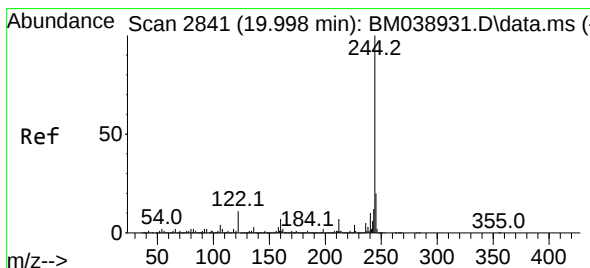
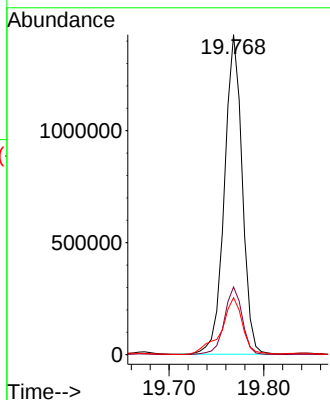
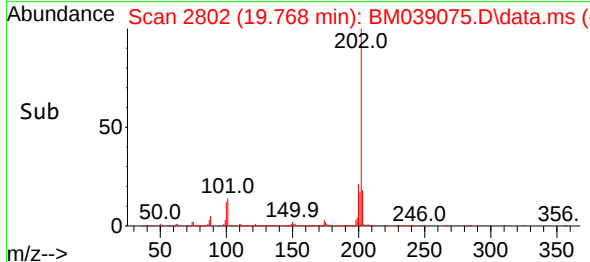
Instrument :
 BNA_M
 ClientSampleId :
 IRV-3



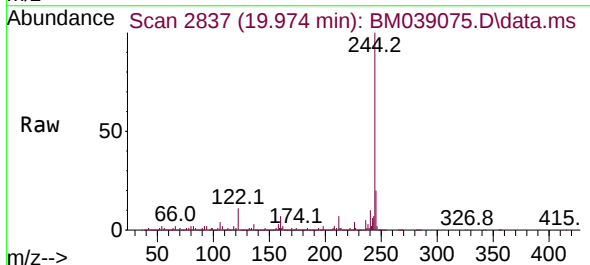
Tgt Ion:202 Resp: 1863805
 Ion Ratio Lower Upper
 202 100
 200 21.1 17.1 25.7
 203 17.8 14.1 21.1

Manual Integrations
 APPROVED

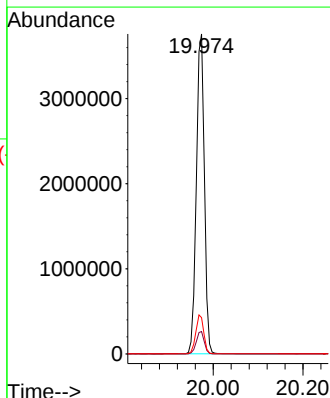
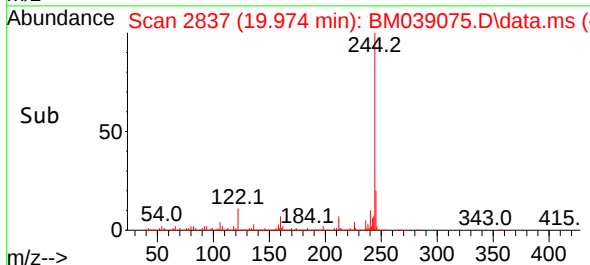
Reviewed By :Christian Giraldo 03/22/2023
 Supervised By :Jagrut Upadhyay 03/22/2023

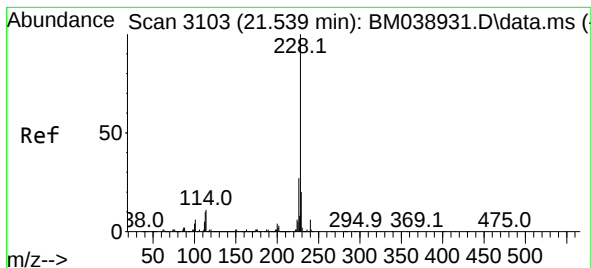


#79
 Terphenyl-d14
 Concen: 65.125 ng
 RT: 19.974 min Scan# 2837
 Delta R.T. 0.006 min
 Lab File: BM039075.D
 Acq: 21 Mar 2023 18:58



Tgt Ion:244 Resp: 4648949
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 11.3 9.0 13.4





#81

Benzo(a)anthracene

Concen: 15.405 ng

RT: 21.515 min Scan# 30

Delta R.T. -0.000 min

Lab File: BM039075.D

Acq: 21 Mar 2023 18:58

Instrument :

BNA_M

ClientSampleId :

IRV-3

Tgt Ion:228 Resp: 1447968

Ion Ratio Lower Upper

228 100

226 28.4 21.4 32.2

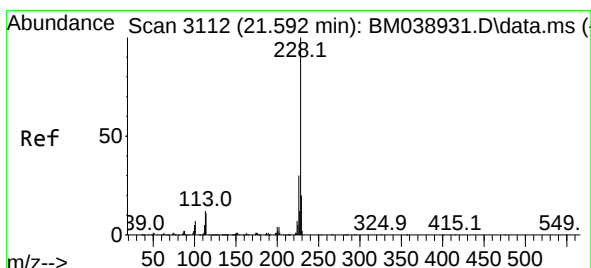
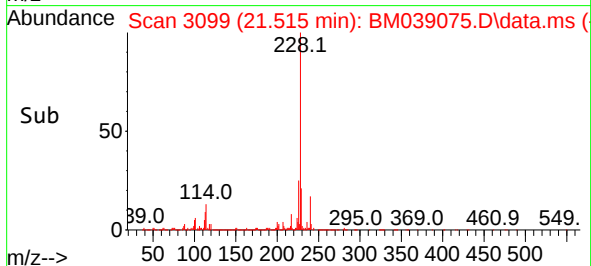
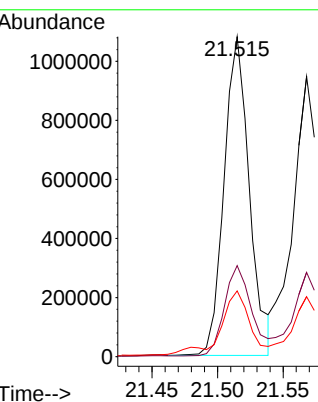
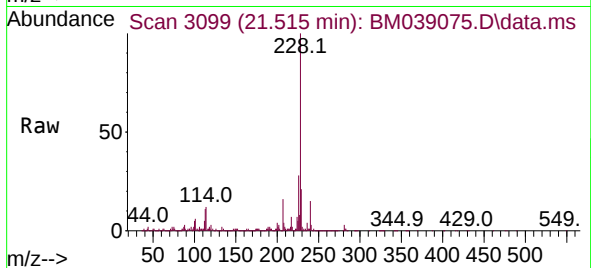
229 20.5 15.7 23.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/22/2023

Supervised By :Jagrut Upadhyay 03/22/2023



#83

Chrysene

Concen: 14.226 ng

RT: 21.568 min Scan# 3108

Delta R.T. -0.000 min

Lab File: BM039075.D

Acq: 21 Mar 2023 18:58

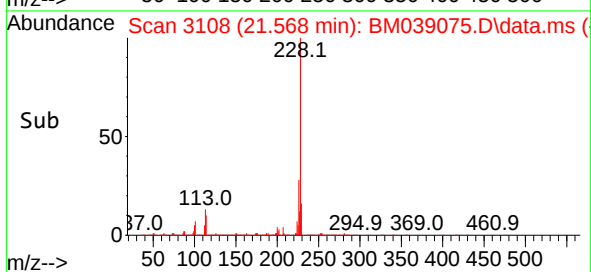
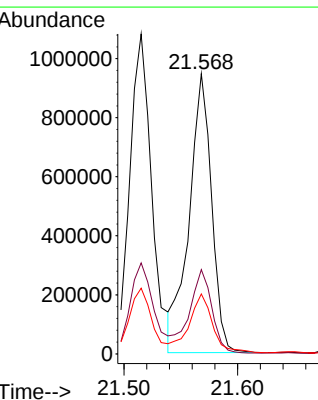
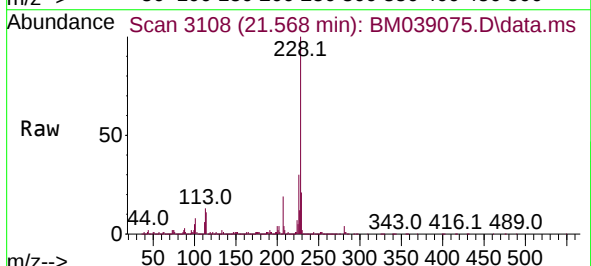
Tgt Ion:228 Resp: 1300420

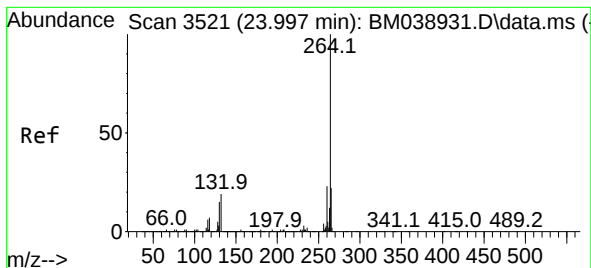
Ion Ratio Lower Upper

228 100

226 30.1 24.0 36.0

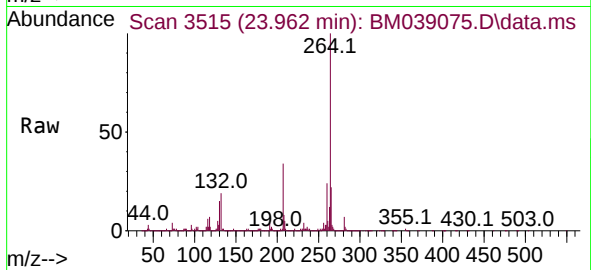
229 21.4 16.0 24.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 23.962 min Scan# 3515
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

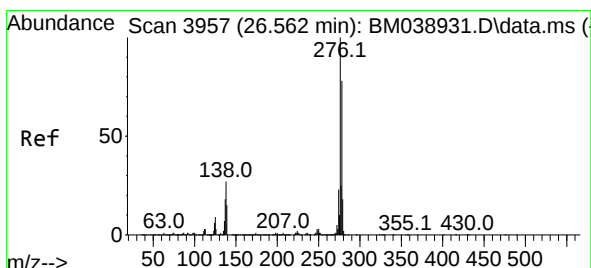
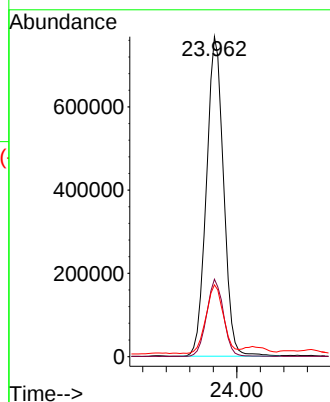
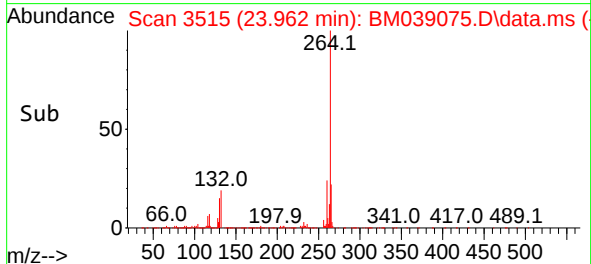
Instrument :
BNA_M
ClientSampleId :
IRV-3



Tgt Ion:264 Resp: 155700
Ion Ratio Lower Upper
264 100
260 24.2 18.7 28.1
265 22.5 17.9 26.9

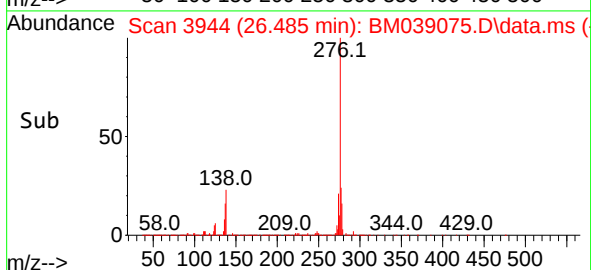
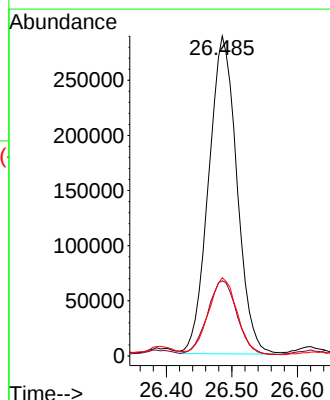
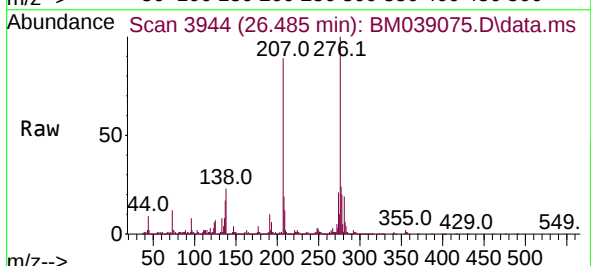
Manual Integrations
APPROVED

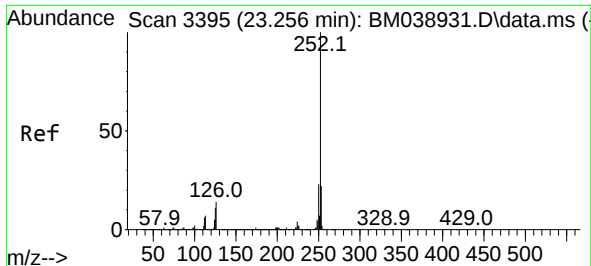
Reviewed By :Christian Giraldo 03/22/2023
Supervised By :Jagrut Upadhyay 03/22/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 7.287 ng
RT: 26.485 min Scan# 3944
Delta R.T. -0.012 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

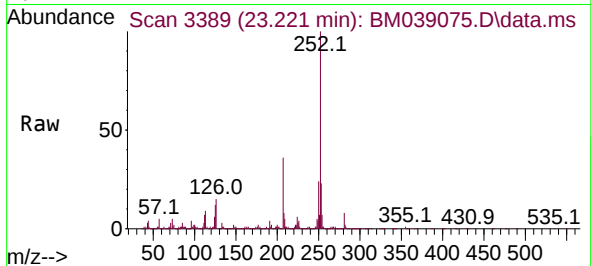
Tgt Ion:276 Resp: 863325
Ion Ratio Lower Upper
276 100
138 24.4 22.1 33.1
277 24.5 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 18.167 ng
RT: 23.221 min Scan# 3389
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

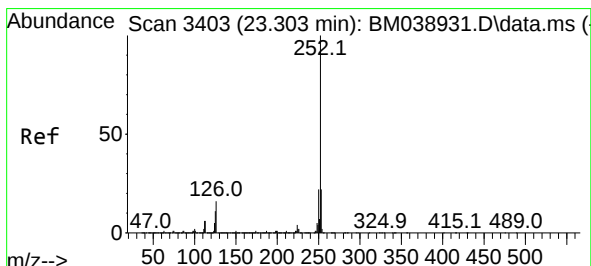
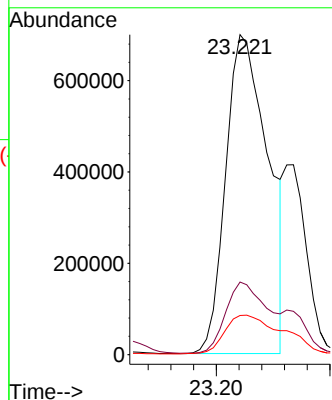
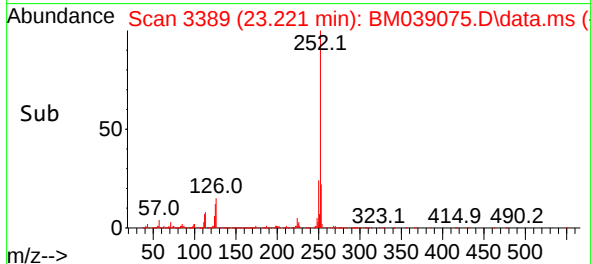
Instrument :
BNA_M
ClientSampleId :
IRV-3



Tgt Ion:252 Resp: 180710
Ion Ratio Lower Upper
252 100
253 22.7 17.6 26.4
125 12.2 8.8 13.2

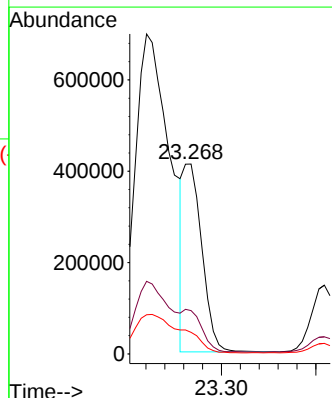
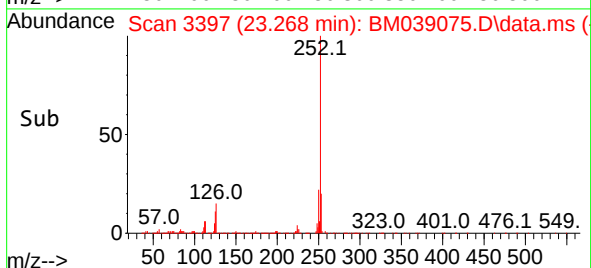
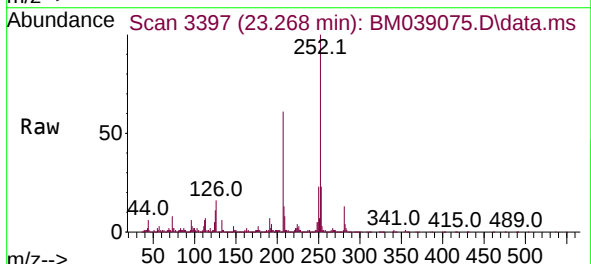
Manual Integrations
APPROVED

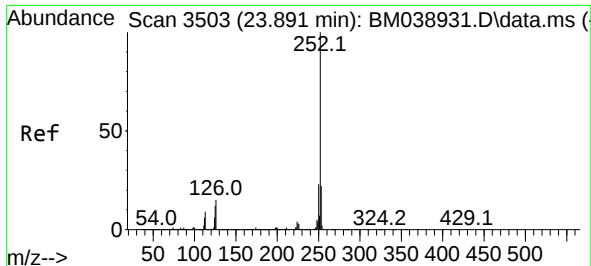
Reviewed By :Christian Giraldo 03/22/2023
Supervised By :Jagrut Upadhyay 03/22/2023



#89
Benzo(k)fluoranthene
Concen: 5.387 ng m
RT: 23.268 min Scan# 3397
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

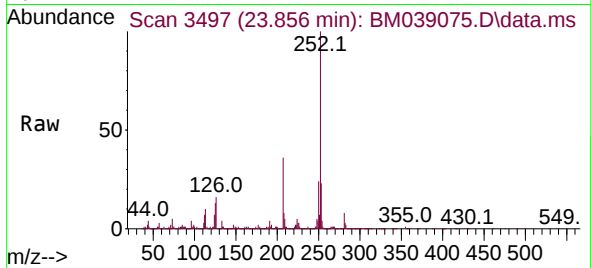
Tgt Ion:252 Resp: 557687
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 11.4 8.9 13.3





#90
Benzo(a)pyrene
Concen: 14.573 ng
RT: 23.856 min Scan# 34
Delta R.T. -0.000 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

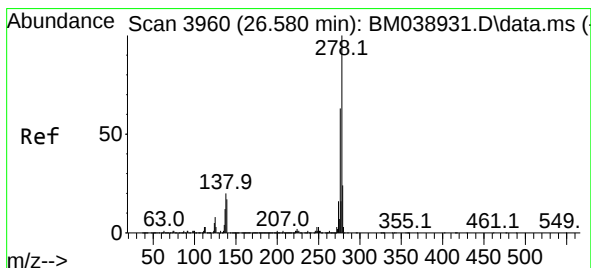
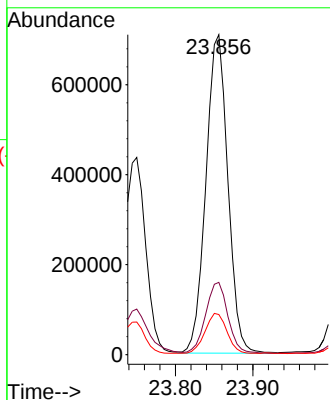
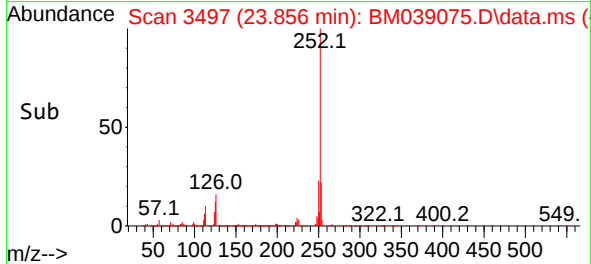
Instrument :
BNA_M
ClientSampleId :
IRV-3



Tgt Ion:252 Resp: 1395176
Ion Ratio Lower Upper
252 100
253 22.6 17.6 26.4
125 12.5 9.8 14.8

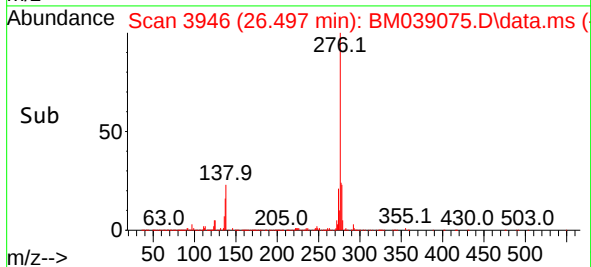
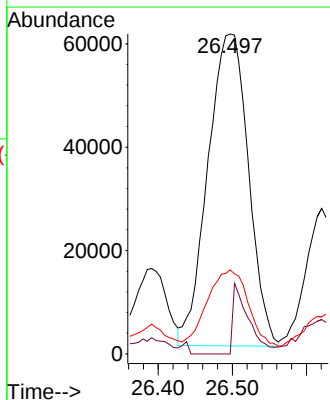
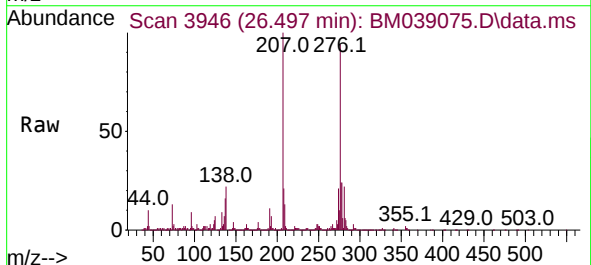
Manual Integrations
APPROVED

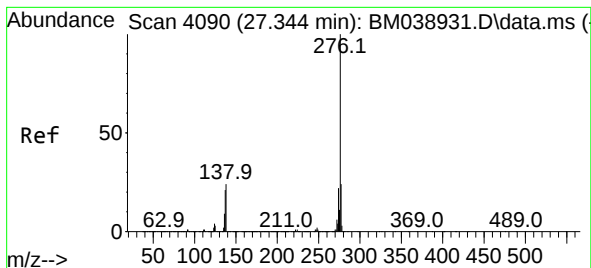
Reviewed By :Christian Giraldo 03/22/2023
Supervised By :Jagrut Upadhyay 03/22/2023



#91
Dibenzo(a,h)anthracene
Concen: 2.290 ng
RT: 26.497 min Scan# 3946
Delta R.T. -0.012 min
Lab File: BM039075.D
Acq: 21 Mar 2023 18:58

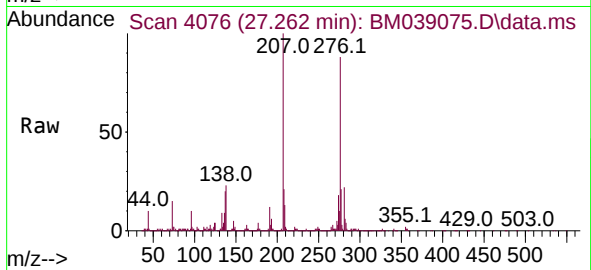
Tgt Ion:278 Resp: 229746
Ion Ratio Lower Upper
278 100
139 0.0 13.7 20.5#
279 26.3 18.9 28.3





#92
 Benzo(g,h,i)perylene
 Concen: 8.081 ng
 RT: 27.262 min Scan# 40
 Delta R.T. -0.012 min
 Lab File: BM039075.D
 Acq: 21 Mar 2023 18:58

Instrument :
 BNA_M
 ClientSampleId :
 IRV-3



Tgt Ion:	276	Resp:	793252
Ion Ratio	Lower	Upper	
276	100		
277	23.6	19.3	28.9
138	26.3	19.0	28.6

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 03/22/2023
 Supervised By :Jagrut Upadhyay 03/22/2023

