

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042325\
 Data File : BM050011.D
 Acq On : 23 Apr 2025 13:19
 Operator : RC/JU
 Sample : Q1848-03DL 4X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 ETGI-275DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 04/24/2025
 Supervised By :Jagrut Upadhyay 04/24/2025

Quant Time: Apr 23 13:54:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.763	152	248004	20.000	ng	-0.02
21) Naphthalene-d8	10.557	136	876188	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	586112	20.000	ng	-0.01
64) Phenanthrene-d10	17.157	188	1212365	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1225858	20.000	ng	0.00
86) Perylene-d12	24.403	264	1267851	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	325523	22.288	ng	0.00
7) Phenol-d6	6.951	99	405458	22.313	ng	0.00
23) Nitrobenzene-d5	8.922	82	239889	15.246	ng	-0.01
42) 2,4,6-Tribromophenol	15.904	330	187903	22.041	ng	0.00
45) 2-Fluorobiphenyl	13.027	172	650599	15.052	ng	-0.02
79) Terphenyl-d14	19.780	244	966818	14.780	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	14.133	152	184226	3.693	ng	99
58) Fluorene	15.463	166	92834	2.202	ng	98
70) Pentachlorophenol	16.821	266	27643	2.326	ng	96
71) Phenanthrene	17.198	178	1579790	23.768	ng	100
72) Anthracene	17.286	178	627242	9.576	ng	100
73) Carbazole	17.562	167	284443	4.611	ng	99
75) Fluoranthene	19.215	202	5236467	64.075	ng	99
78) Pyrene	19.580	202	4738550	56.088	ng	99
81) Benzo(a)anthracene	21.380	228	1399079	17.173	ng	97
83) Chrysene	21.445	228	2777183	35.856	ng	98
87) Indeno(1,2,3-cd)pyrene	27.791	276	591993	6.264	ng	96
88) Benzo(b)fluoranthene	23.456	252	2538723	31.353	ng	98
89) Benzo(k)fluoranthene	23.509	252	946001m	12.056	ng	
90) Benzo(a)pyrene	24.262	252	835149	11.737	ng	97
92) Benzo(g,h,i)perylene	28.850	276	517515	6.506	ng	99

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

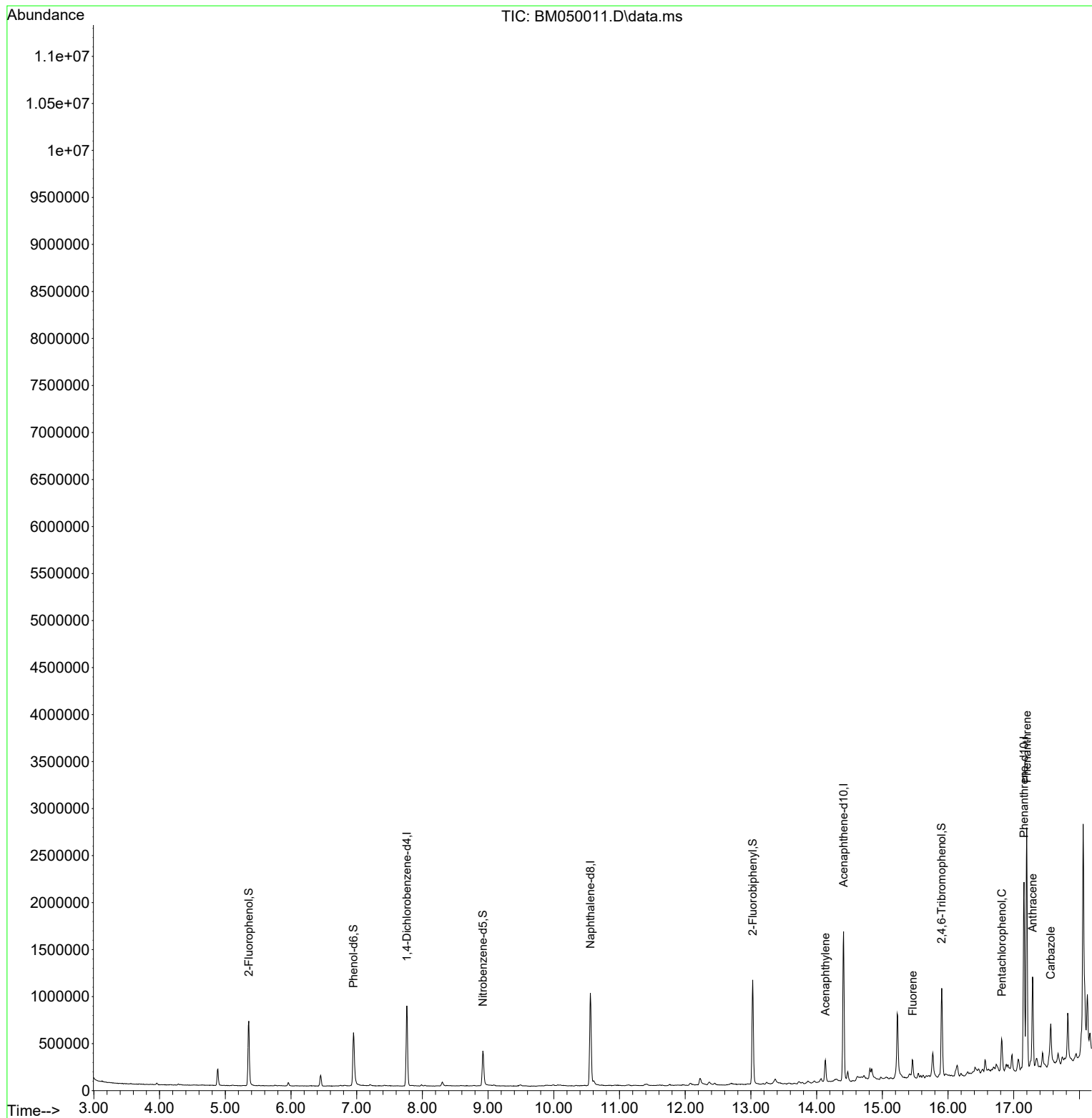
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042325\
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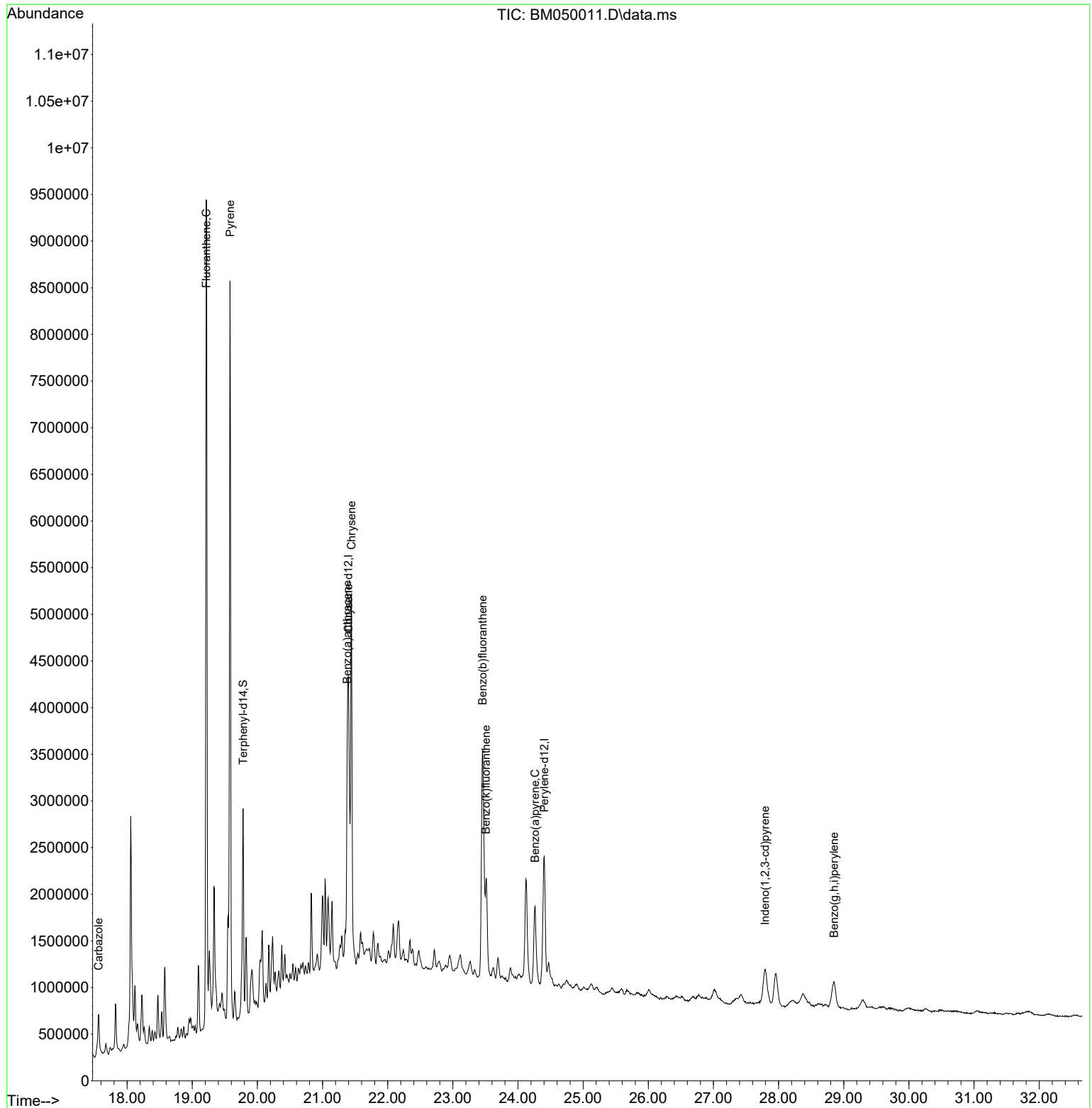
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Acq On : 23 Apr 2025 13:19
Operator : RC/JU
Sample : Q1848-03DL 4X
Misc :
ALS Vial : 6 Sample Multiplier: 1

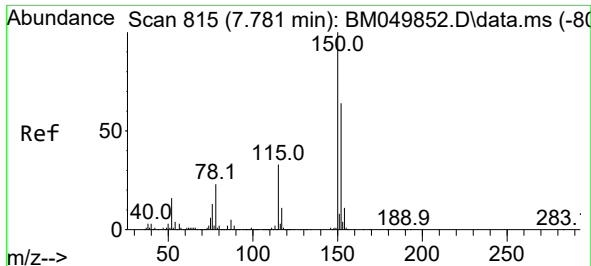
Instrument :
BNA_M
ClientSampleId :
ETGI-275DL

Quant Time: Apr 23 13:54:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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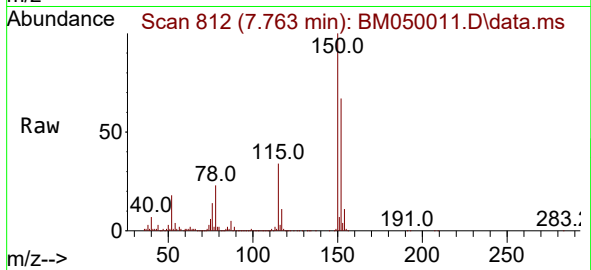
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.763 min Scan# 815
Delta R.T. -0.018 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

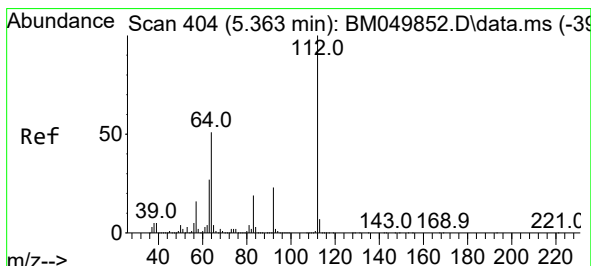
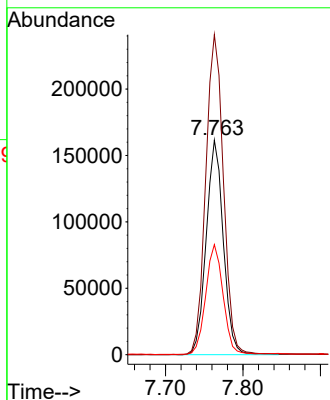
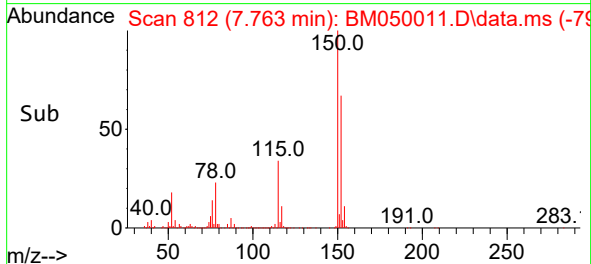
Instrument :
BNA_M
ClientSampleId :
ETGI-275DL



Tgt Ion:152 Resp: 248004
Ion Ratio Lower Upper
152 100
150 149.2 124.3 186.5
115 51.3 41.1 61.7

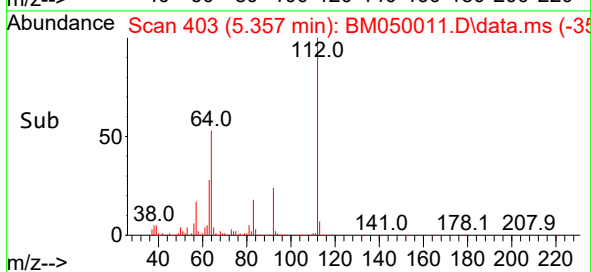
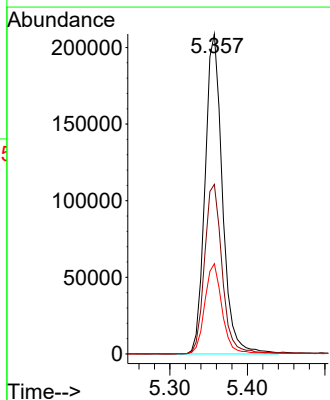
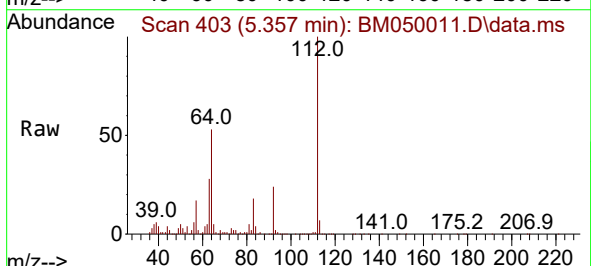
Manual Integrations
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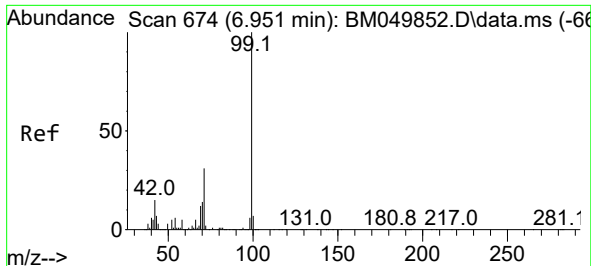
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025



#5
2-Fluorophenol
Concen: 22.288 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

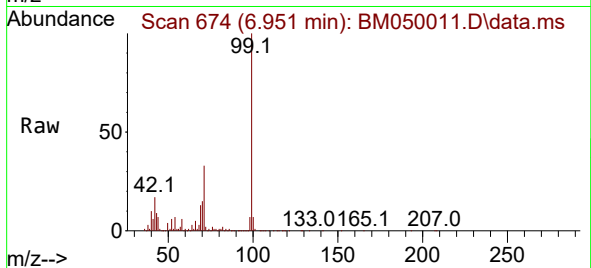
Tgt Ion:112 Resp: 325523
Ion Ratio Lower Upper
112 100
64 53.0 41.0 61.6
63 28.2 21.5 32.3





#7
Phenol-d6
Concen: 22.313 ng
RT: 6.951 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

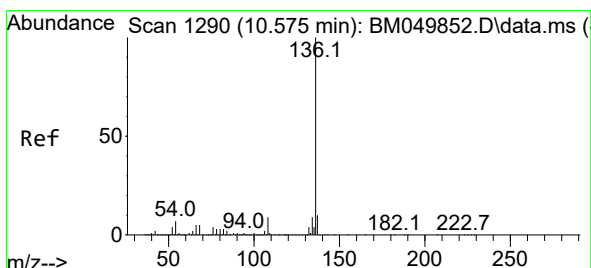
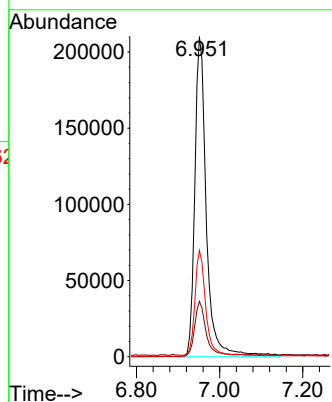
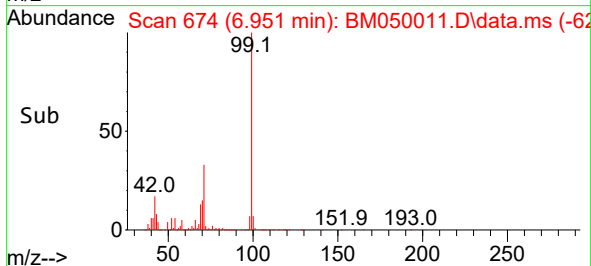
Instrument :
BNA_M
ClientSampleId :
ETGI-275DL



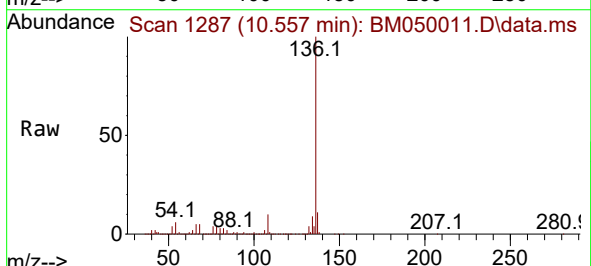
Tgt Ion: 99 Resp: 405458
Ion Ratio Lower Upper
99 100
42 17.3 12.1 18.1
71 33.2 24.9 37.3

Manual Integrations
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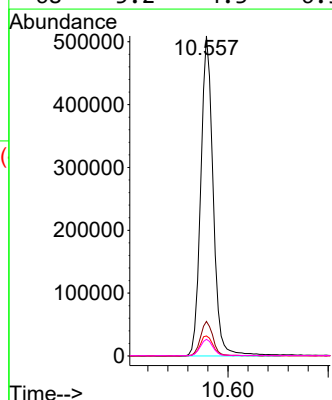
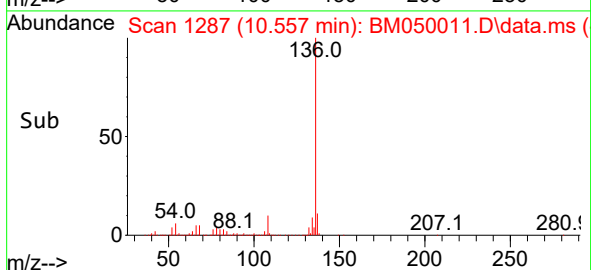
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025

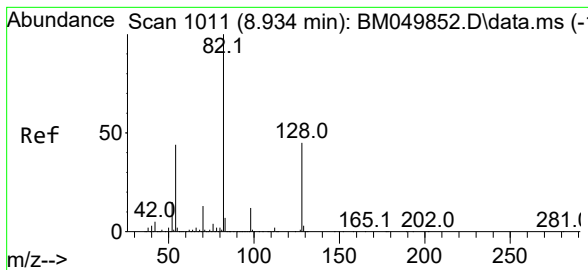


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.557 min Scan# 1287
Delta R.T. -0.018 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19



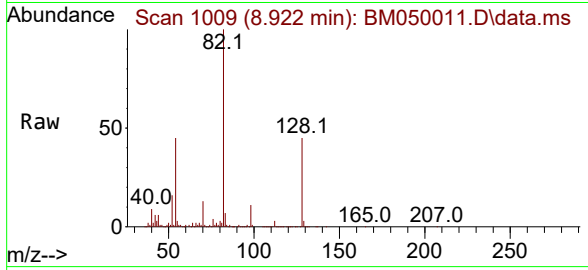
Tgt Ion:136 Resp: 876188
Ion Ratio Lower Upper
136 100
137 10.8 8.4 12.6
54 6.2 5.3 7.9
68 5.2 4.3 6.5





#23
Nitrobenzene-d5
Concen: 15.246 ng
RT: 8.922 min Scan# 1009
Delta R.T. -0.012 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

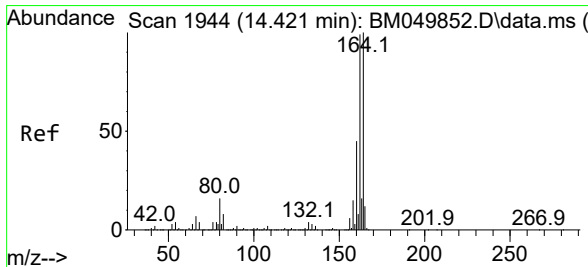
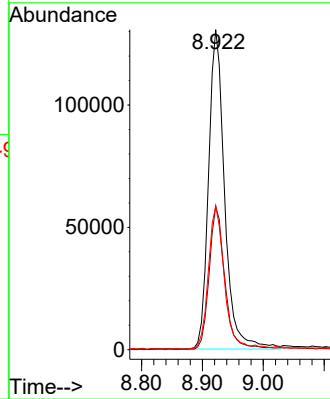
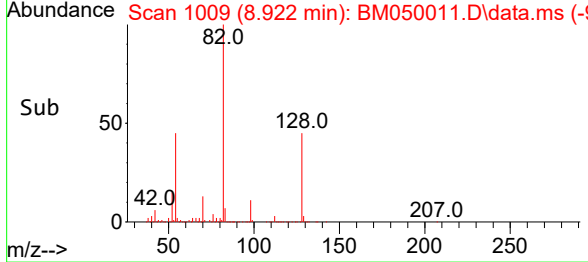
Instrument :
BNA_M
ClientSampleId :
ETGI-275DL



Tgt Ion: 82 Resp: 239889
Ion Ratio Lower Upper
82 100
128 44.7 36.2 54.2
54 45.0 35.0 52.6

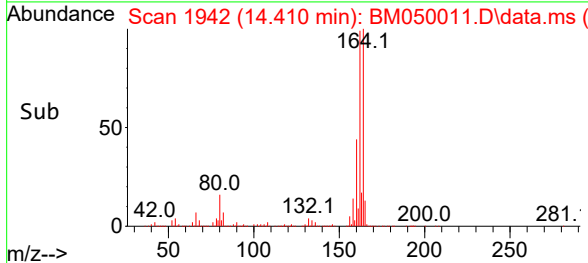
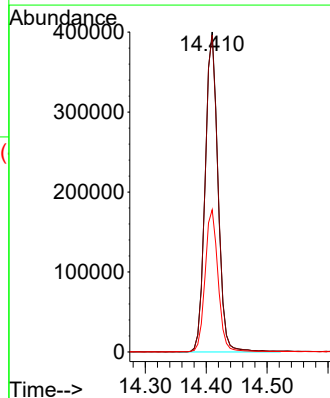
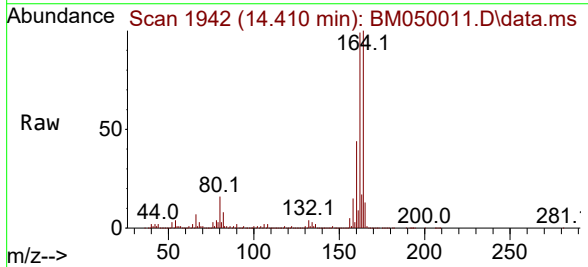
Manual Integrations
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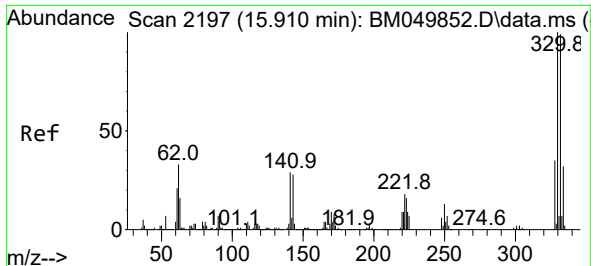
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.012 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

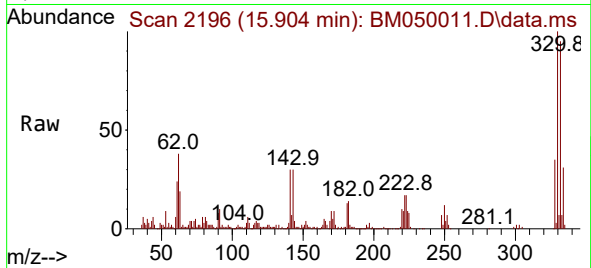
Tgt Ion:164 Resp: 586112
Ion Ratio Lower Upper
164 100
162 99.1 79.4 119.0
160 44.5 36.2 54.2





#42
2,4,6-Tribromophenol
Concen: 22.041 ng
RT: 15.904 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

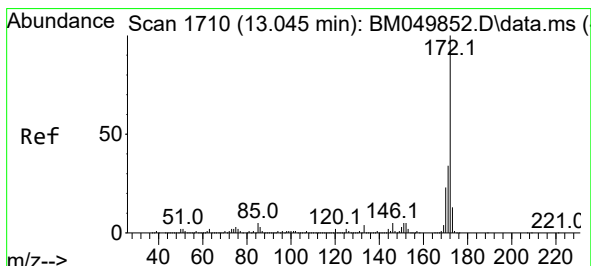
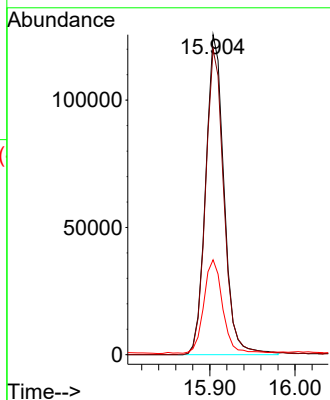
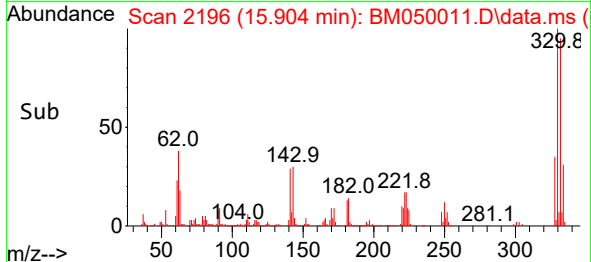
Instrument :
BNA_M
ClientSampleId :
ETGI-275DL



Tgt Ion:330 Resp: 18790
Ion Ratio Lower Upper
330 100
332 96.0 78.0 117.0
141 29.7 23.5 35.3

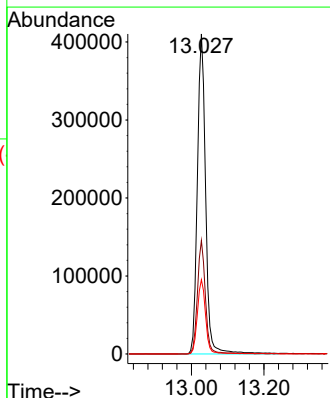
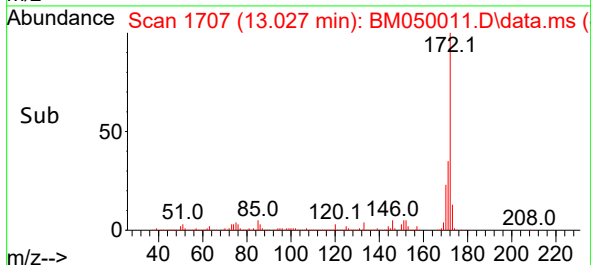
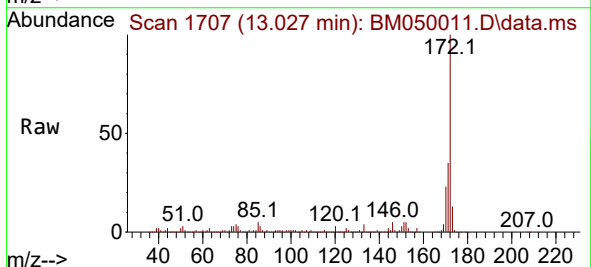
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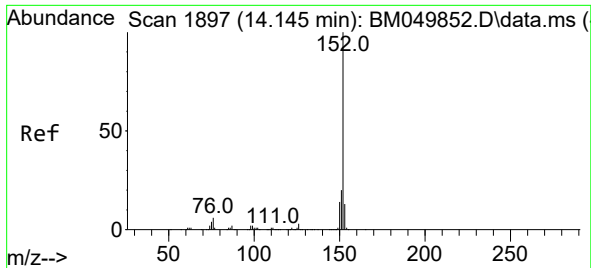
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025



#45
2-Fluorobiphenyl
Concen: 15.052 ng
RT: 13.027 min Scan# 1707
Delta R.T. -0.018 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

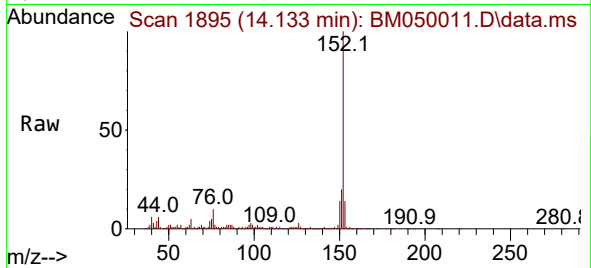
Tgt Ion:172 Resp: 650599
Ion Ratio Lower Upper
172 100
171 35.5 27.4 41.2
170 23.2 18.6 28.0





#49
Acenaphthylene
Concen: 3.693 ng
RT: 14.133 min Scan# 1895
Delta R.T. -0.012 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

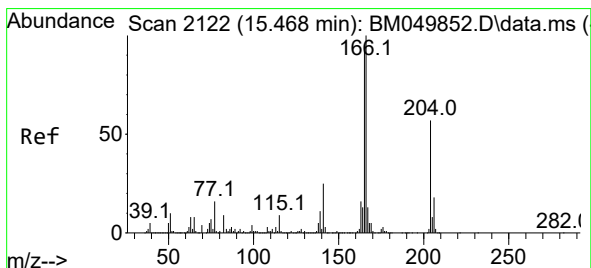
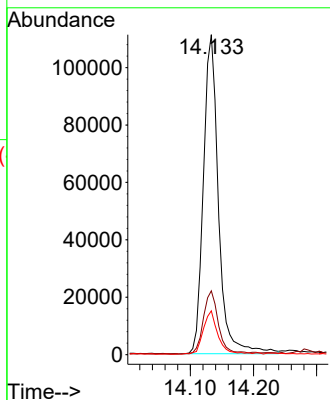
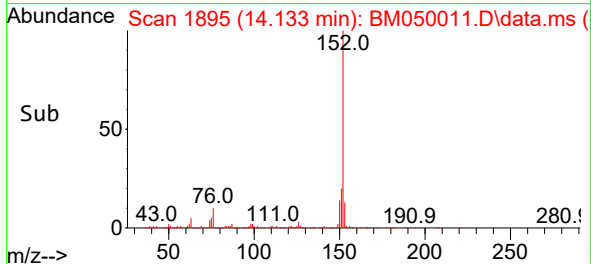
Instrument :
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ClientSampleId :
ETGI-275DL



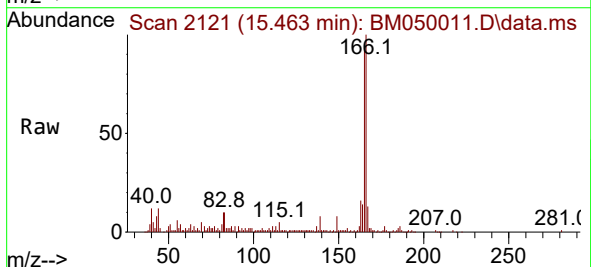
Tgt Ion:152 Resp: 184220
Ion Ratio Lower Upper
152 100
151 19.9 15.7 23.5
153 13.7 10.4 15.6

Manual Integrations
APPROVED

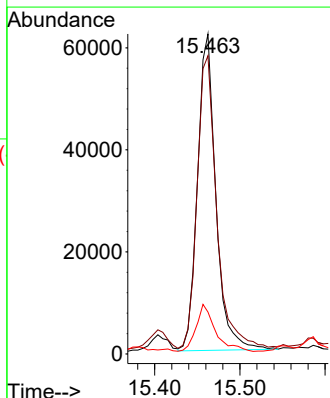
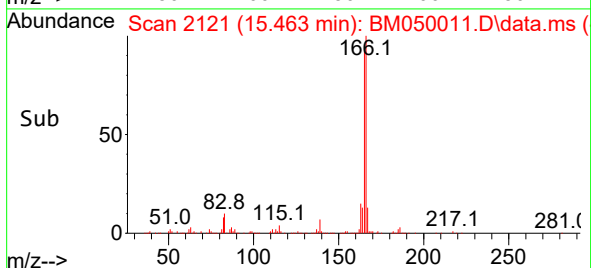
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025

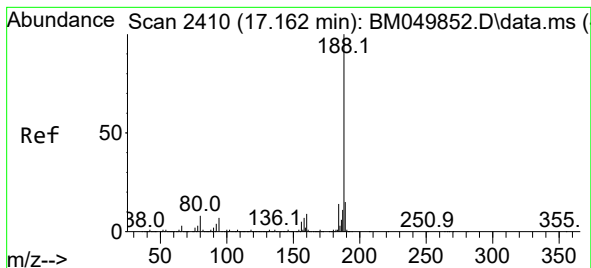


#58
Fluorene
Concen: 2.202 ng
RT: 15.463 min Scan# 2121
Delta R.T. -0.006 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19



Tgt Ion:166 Resp: 92834
Ion Ratio Lower Upper
166 100
165 93.2 76.3 114.5
167 13.1 10.7 16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.157 min Scan# 2410

Delta R.T. -0.006 min

Lab File: BM050011.D

Acq: 23 Apr 2025 13:19

Instrument :

BNA_M

ClientSampleId :

ETGI-275DL

Tgt Ion:188 Resp: 121236

Ion Ratio Lower Upper

188 100

94 7.2 5.8 8.6

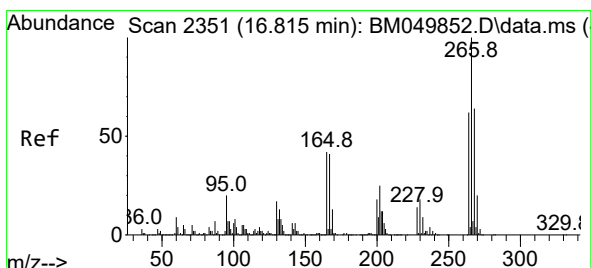
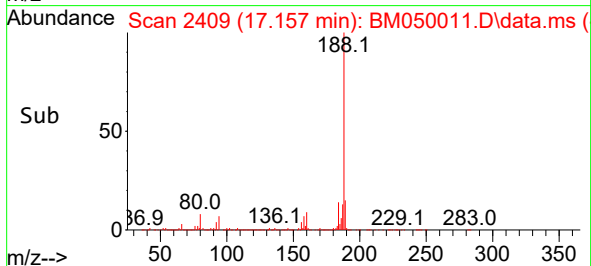
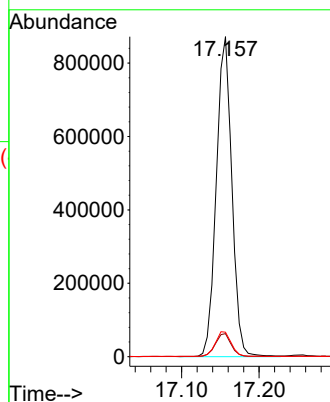
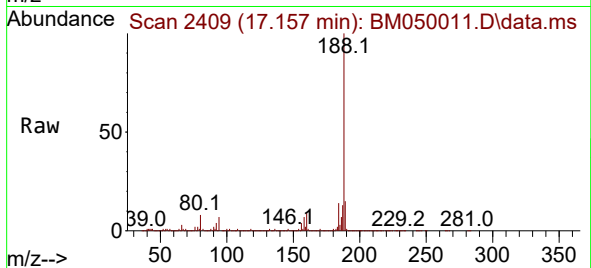
80 7.7 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/24/2025

Supervised By :Jagrut Upadhyay 04/24/2025



#70

Pentachlorophenol

Concen: 2.326 ng

RT: 16.821 min Scan# 2352

Delta R.T. 0.006 min

Lab File: BM050011.D

Acq: 23 Apr 2025 13:19

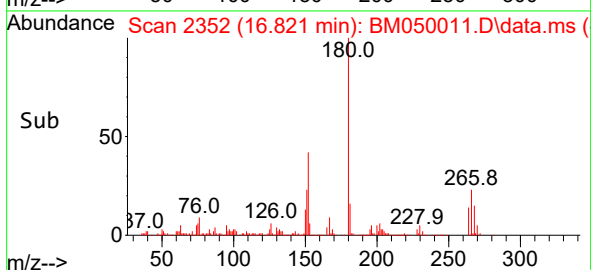
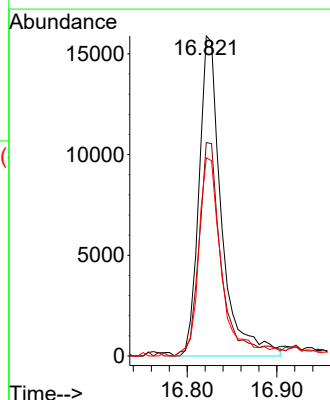
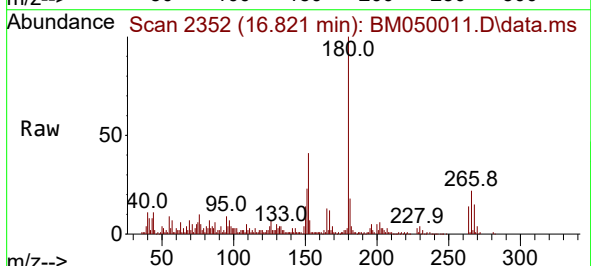
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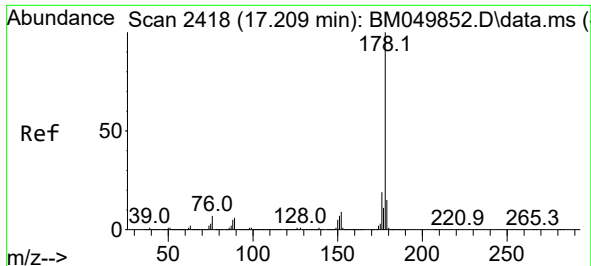
Ion Ratio Lower Upper

266 100

268 70.7 51.4 77.2

264 61.9 49.8 74.8





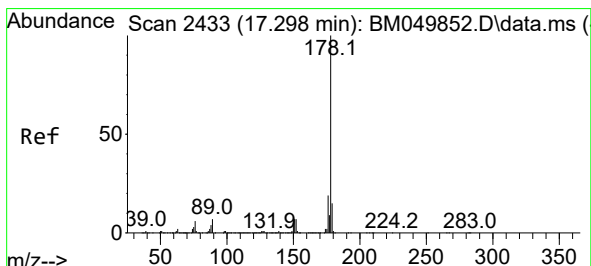
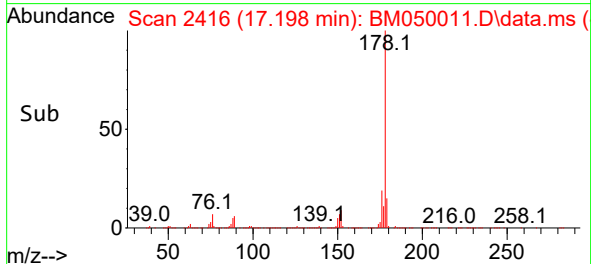
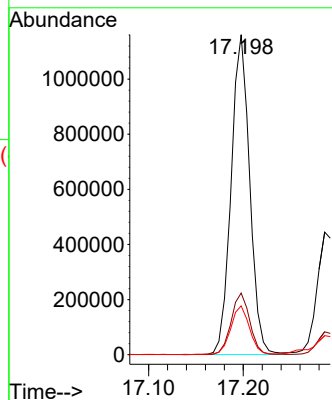
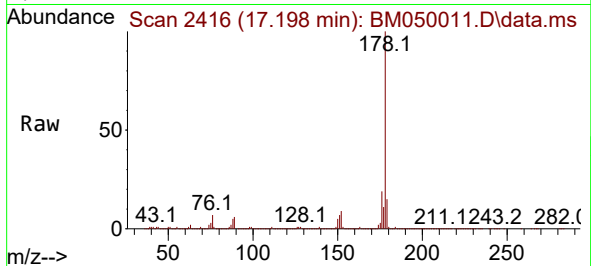
#71
Phenanthrene
Concen: 23.768 ng
RT: 17.198 min Scan# 2418
Delta R.T. -0.012 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

Instrument :
BNA_M
ClientSampleId :
ETGI-275DL

Tgt Ion:178 Resp: 1579790
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.3 12.3 18.5

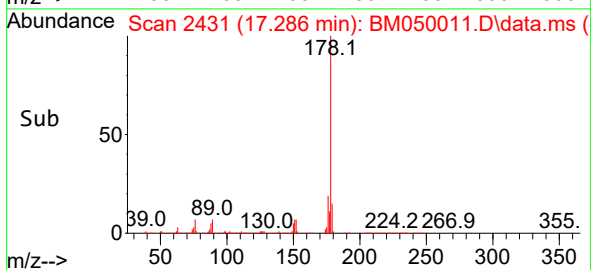
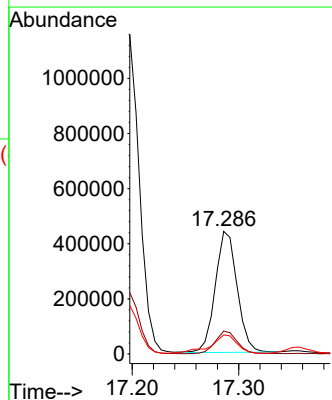
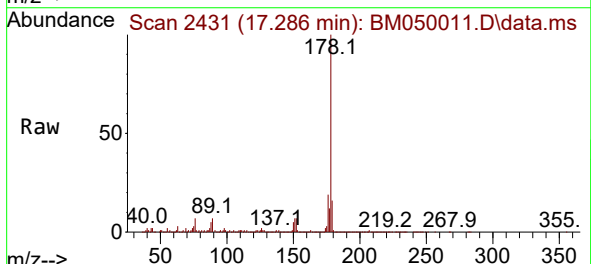
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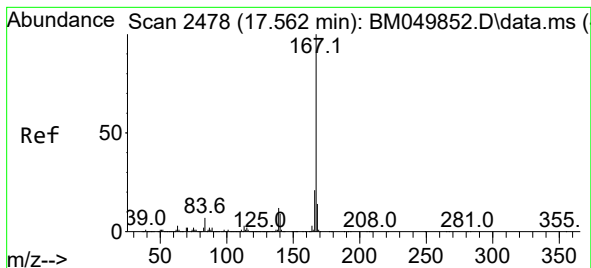
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025



#72
Anthracene
Concen: 9.576 ng
RT: 17.286 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

Tgt Ion:178 Resp: 627242
Ion Ratio Lower Upper
178 100
176 18.6 15.1 22.7
179 15.6 12.4 18.6





#73

Carbazole

Concen: 4.611 ng

RT: 17.562 min Scan# 2478

Delta R.T. 0.000 min

Lab File: BM050011.D

Acq: 23 Apr 2025 13:19

Instrument :

BNA_M

ClientSampleId :

ETGI-275DL

Tgt Ion:167 Resp: 28444

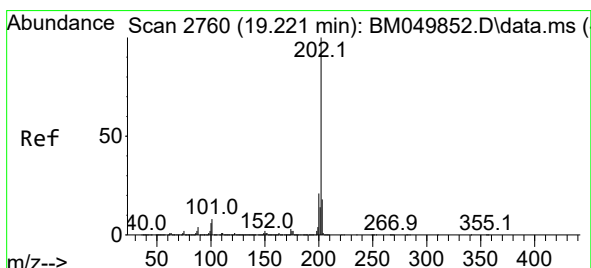
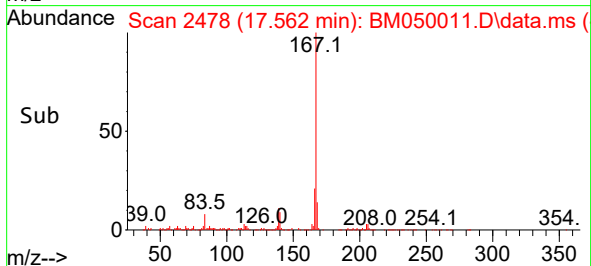
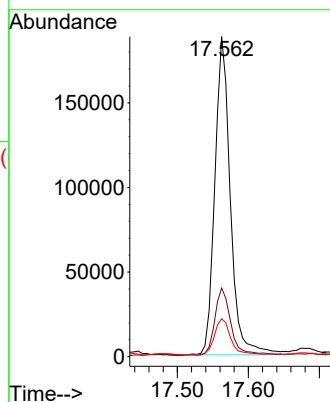
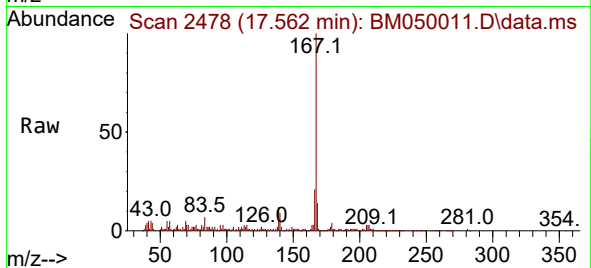
Ion	Ratio	Lower	Upper
167	100		
166	21.5	16.9	25.3
139	11.8	9.3	13.9

Manual Integrations

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Reviewed By :Rahul Chavli 04/24/2025

Supervised By :Jagrut Upadhyay 04/24/2025



#75

Fluoranthene

Concen: 64.075 ng

RT: 19.215 min Scan# 2759

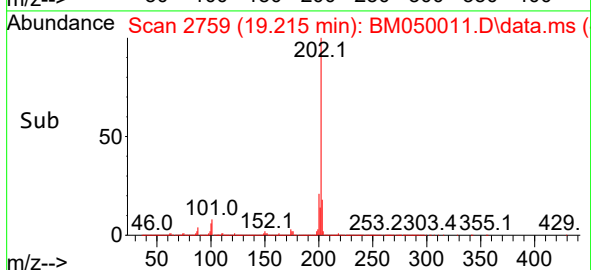
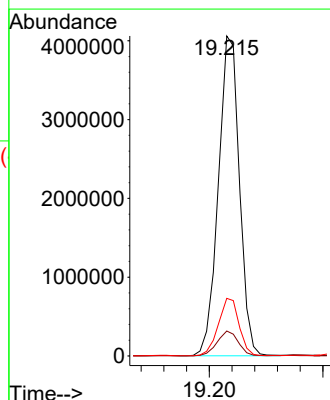
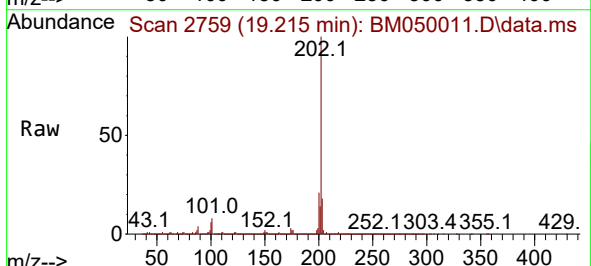
Delta R.T. -0.006 min

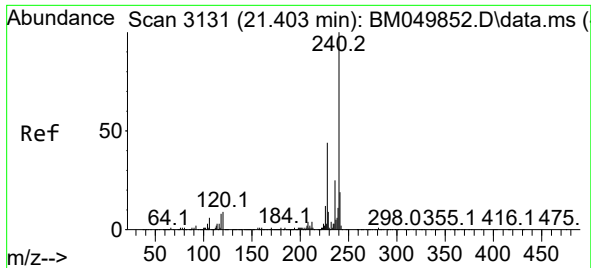
Lab File: BM050011.D

Acq: 23 Apr 2025 13:19

Tgt Ion:202 Resp: 5236467

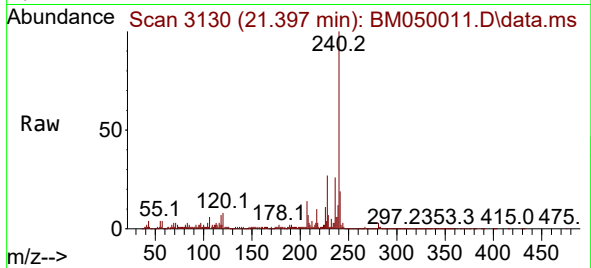
Ion	Ratio	Lower	Upper
202	100		
101	7.8	0.0	28.4
203	18.0	0.0	37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.397 min Scan# 3131
Delta R.T. -0.006 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

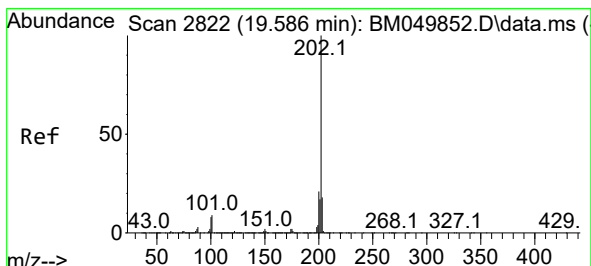
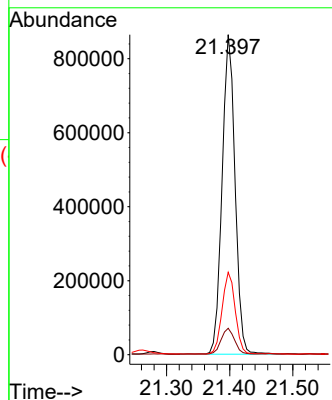
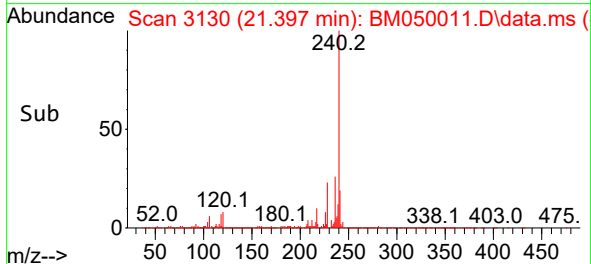
Instrument :
BNA_M
ClientSampleId :
ETGI-275DL



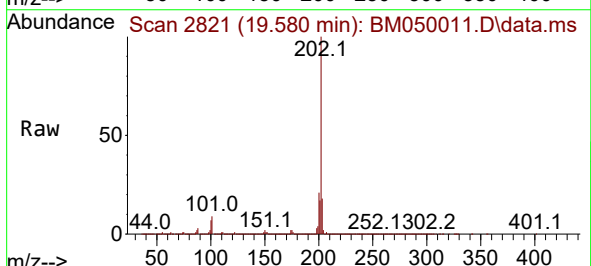
Tgt Ion:240 Resp: 1225858
Ion Ratio Lower Upper
240 100
120 8.3 6.9 10.3
236 25.8 20.4 30.6

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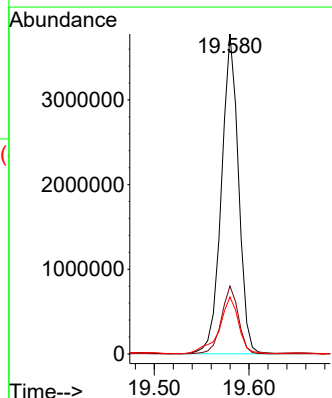
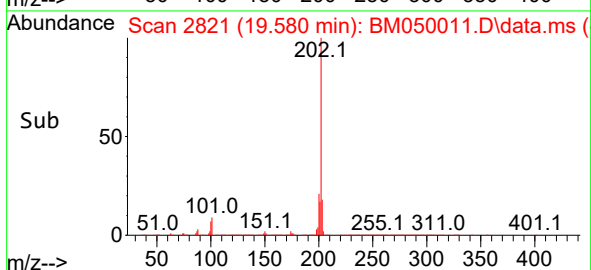
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025

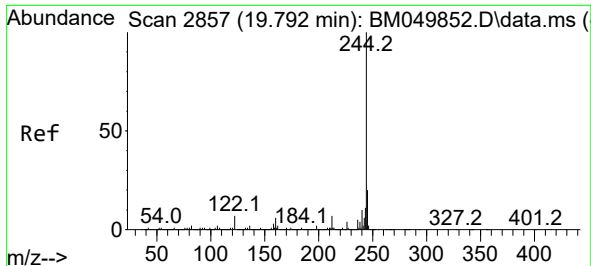


#78
Pyrene
Concen: 56.088 ng
RT: 19.580 min Scan# 2821
Delta R.T. -0.006 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19



Tgt Ion:202 Resp: 4738550
Ion Ratio Lower Upper
202 100
200 21.2 16.5 24.7
203 17.8 14.0 21.0





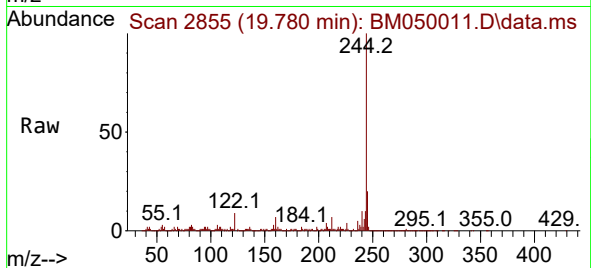
#79
 Terphenyl-d14
 Concen: 14.780 ng
 RT: 19.780 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BM050011.D
 Acq: 23 Apr 2025 13:19

Instrument :

BNA_M

ClientSampleId :

ETGI-275DL

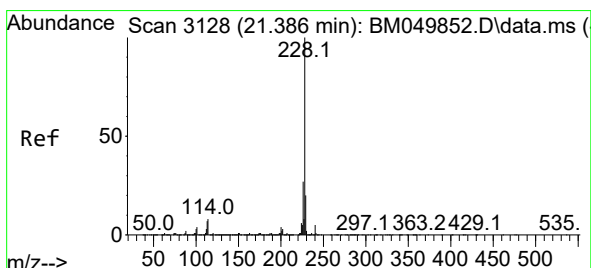
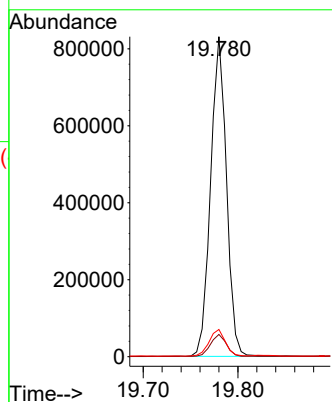
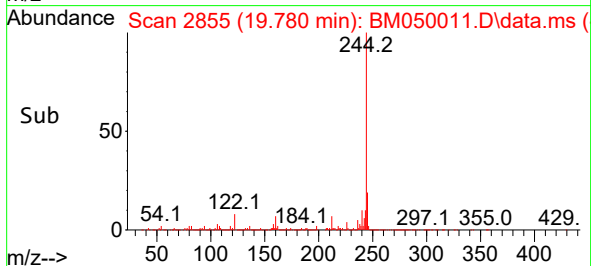


Tgt Ion:244 Resp: 966818
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 8.5 5.4 8.0

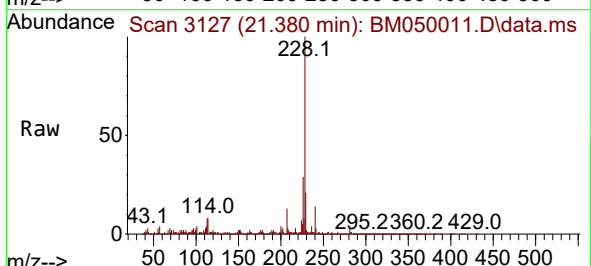
Manual Integrations

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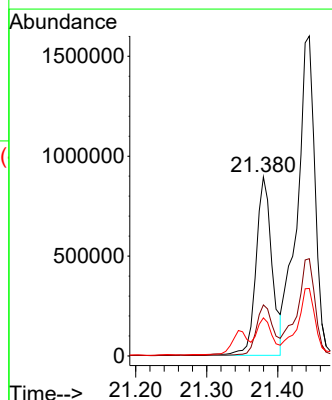
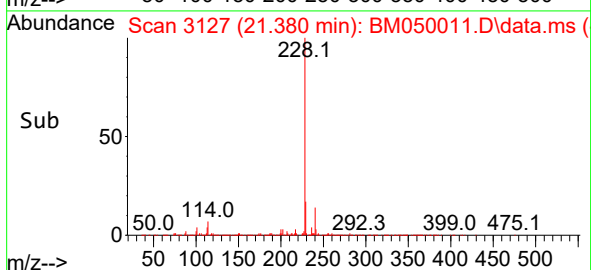
Reviewed By :Rahul Chavli 04/24/2025
 Supervised By :Jagrut Upadhyay 04/24/2025

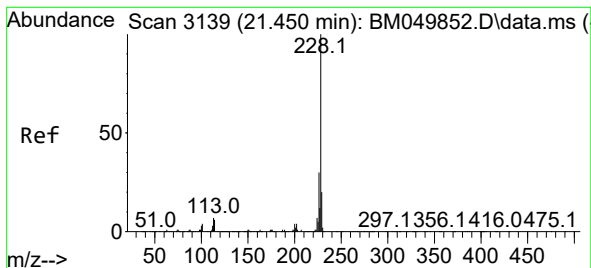


#81
 Benzo(a)anthracene
 Concen: 17.173 ng
 RT: 21.380 min Scan# 3127
 Delta R.T. -0.006 min
 Lab File: BM050011.D
 Acq: 23 Apr 2025 13:19



Tgt Ion:228 Resp: 1399079
 Ion Ratio Lower Upper
 228 100
 226 28.6 21.8 32.8
 229 21.3 15.8 23.8





#83

Chrysene

Concen: 35.856 ng

RT: 21.445 min Scan# 3139

Delta R.T. -0.006 min

Lab File: BM050011.D

Acq: 23 Apr 2025 13:19

Instrument :

BNA_M

ClientSampleId :

ETGI-275DL

Tgt Ion:228 Resp: 277718

Ion Ratio Lower Upper

228 100

226 30.4 24.1 36.1

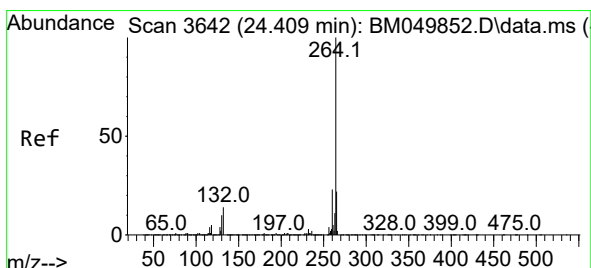
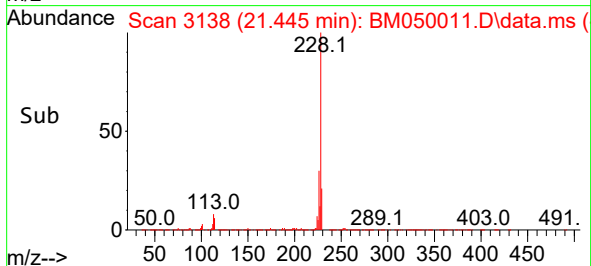
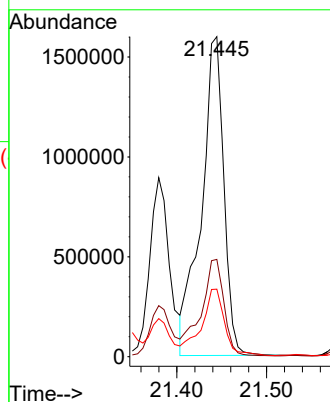
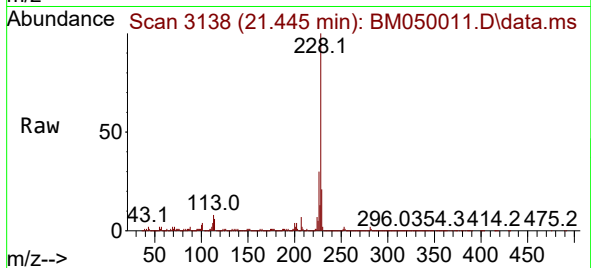
229 21.1 15.8 23.6

Manual Integrations

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Reviewed By :Rahul Chavli 04/24/2025

Supervised By :Jagrut Upadhyay 04/24/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3641

Delta R.T. -0.006 min

Lab File: BM050011.D

Acq: 23 Apr 2025 13:19

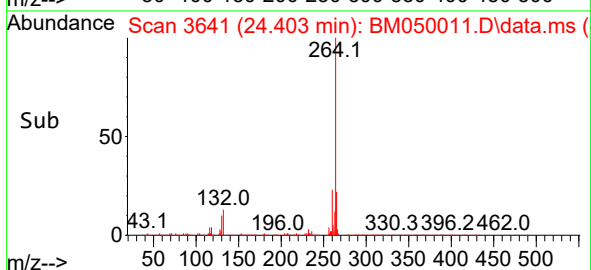
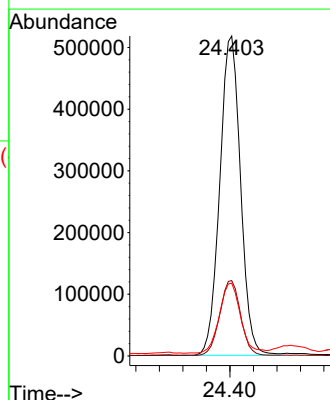
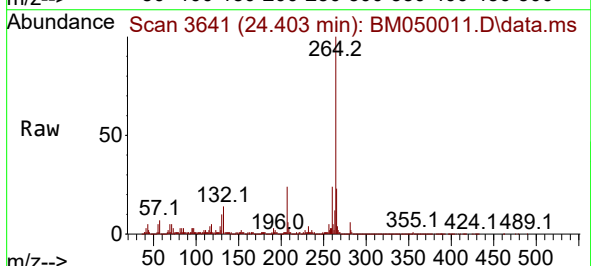
Tgt Ion:264 Resp: 1267851

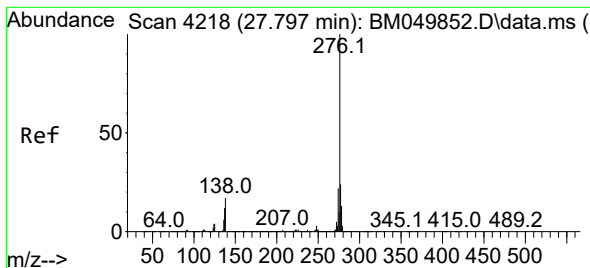
Ion Ratio Lower Upper

264 100

260 23.6 18.6 28.0

265 22.7 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.264 ng

RT: 27.791 min Scan# 4218

Delta R.T. -0.006 min

Lab File: BM050011.D

Acq: 23 Apr 2025 13:19

Instrument :

BNA_M

ClientSampleId :

ETGI-275DL

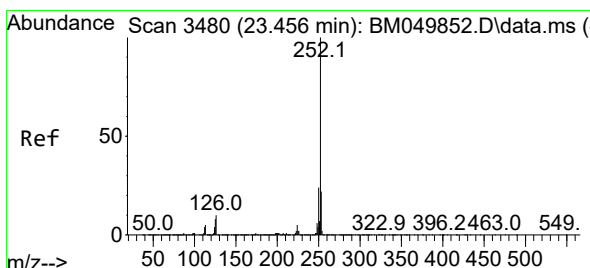
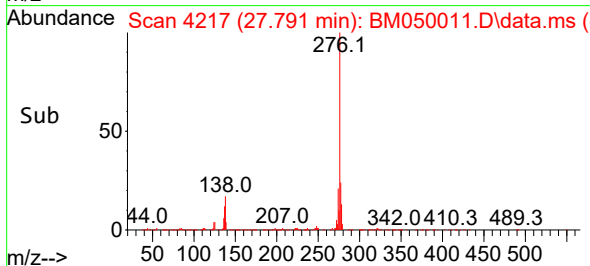
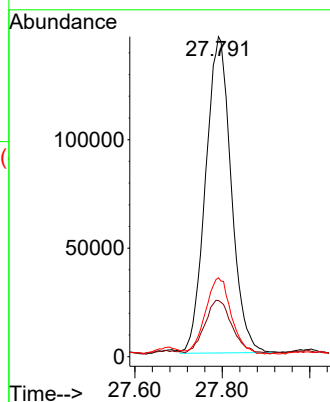
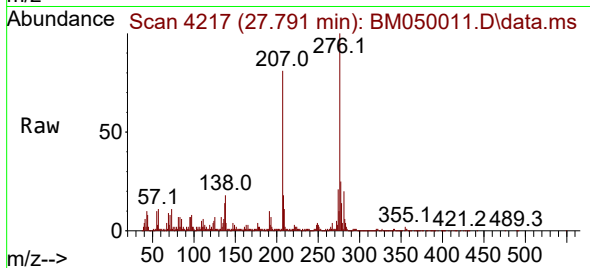
Tgt Ion:	276	Resp:	59199
Ion Ratio	Lower	Upper	
276	100		
138	17.8	16.8	25.2
277	24.3	20.1	30.1

Manual Integrations

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Reviewed By :Rahul Chavli 04/24/2025

Supervised By :Jagrut Upadhyay 04/24/2025



#88

Benzo(b)fluoranthene

Concen: 31.353 ng

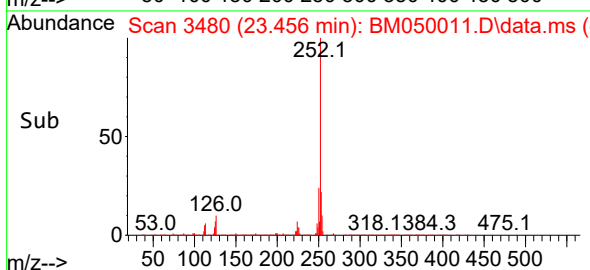
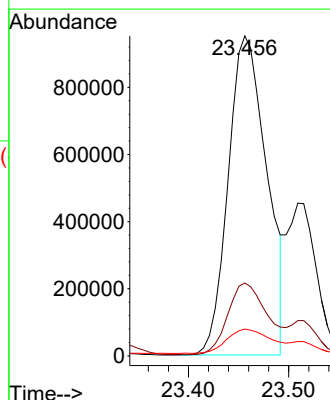
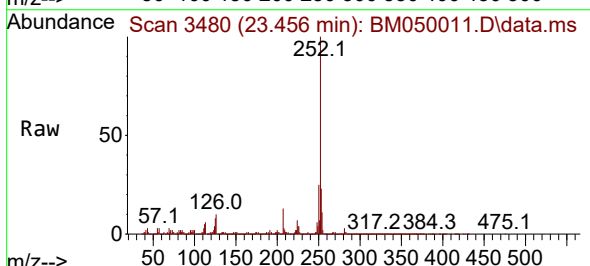
RT: 23.456 min Scan# 3480

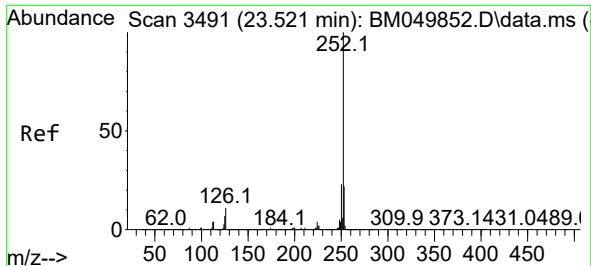
Delta R.T. 0.000 min

Lab File: BM050011.D

Acq: 23 Apr 2025 13:19

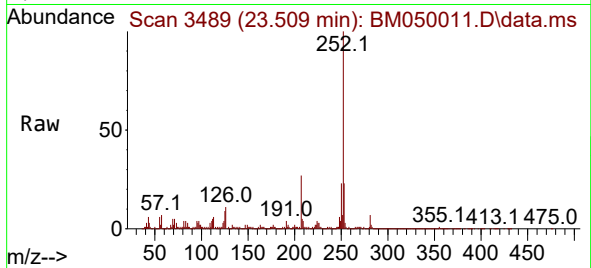
Tgt Ion:	252	Resp:	2538723
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.5	26.3
125	8.4	6.2	9.4





#89
Benzo(k)fluoranthene
Concen: 12.056 ng m
RT: 23.509 min Scan# 3491
Delta R.T. -0.012 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19

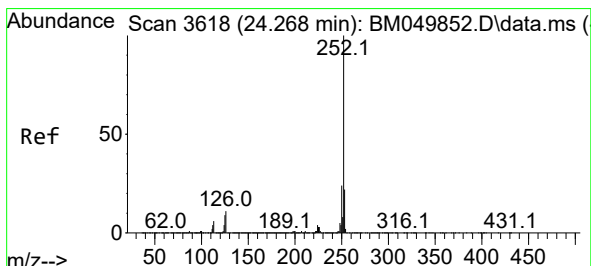
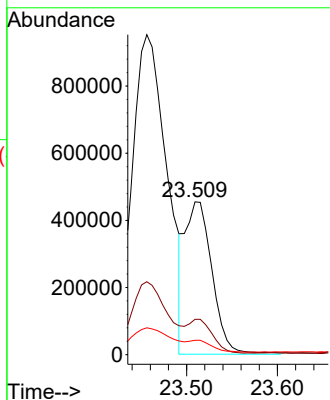
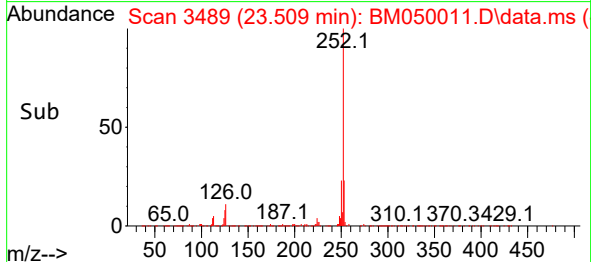
Instrument :
BNA_M
ClientSampleId :
ETGI-275DL



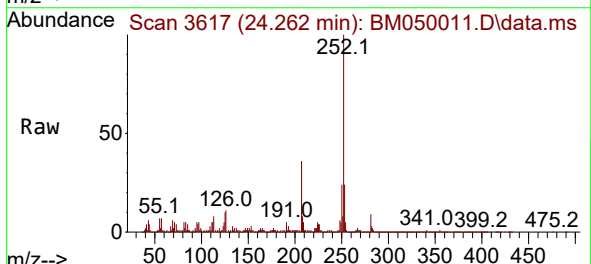
Tgt Ion:252 Resp: 94600
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.2
125 9.5 5.8 8.8

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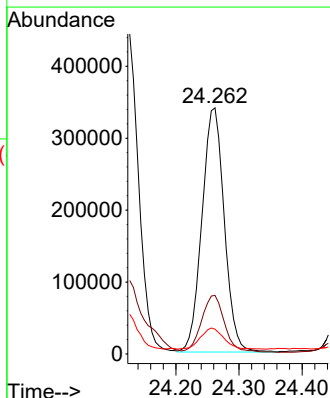
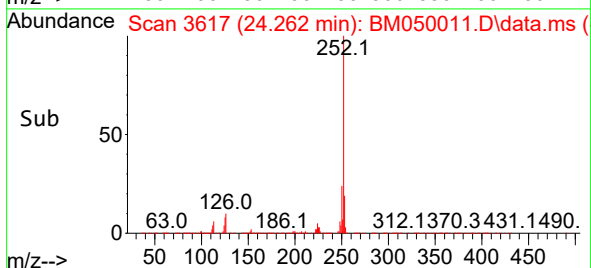
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025

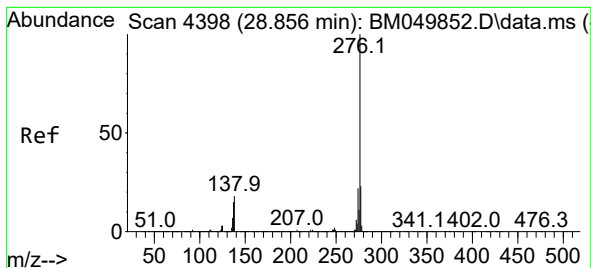


#90
Benzo(a)pyrene
Concen: 11.737 ng
RT: 24.262 min Scan# 3617
Delta R.T. -0.006 min
Lab File: BM050011.D
Acq: 23 Apr 2025 13:19



Tgt Ion:252 Resp: 835149
Ion Ratio Lower Upper
252 100
253 23.8 17.8 26.8
125 10.1 7.0 10.4





#92

Benzo(g,h,i)perylene

Concen: 6.506 ng

RT: 28.850 min Scan# 41

Delta R.T. -0.006 min

Lab File: BM050011.D

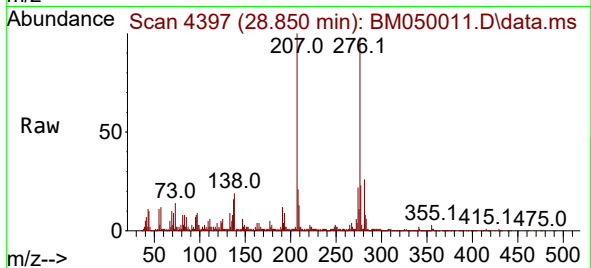
Acq: 23 Apr 2025 13:19

Instrument :

BNA_M

ClientSampleId :

ETGI-275DL



Tgt Ion:276 Resp: 51751

Ion Ratio Lower Upper

276 100

277 23.3 18.7 28.1

138 19.0 14.6 21.8

Manual Integrations

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Reviewed By :Rahul Chavli 04/24/2025

Supervised By :Jagrut Upadhyay 04/24/2025

