

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102825\
 Data File : BG064610.D
 Acq On : 28 Oct 2025 20:37
 Operator : RC/JU
 Sample : Q3451-05
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-12

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/29/2025
 Supervised By :mohammad ahmed 11/05/2025

Quant Time: Nov 04 05:54:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 03 18:16:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.218	152	41968	20.000	ng	0.00
21) Naphthalene-d8	11.044	136	173020	20.000	ng	0.00
39) Acenaphthene-d10	14.839	164	139918	20.000	ng	0.00
64) Phenanthrene-d10	17.571	188	348691	20.000	ng	-0.01
76) Chrysene-d12	21.849	240	279745	20.000	ng	-0.01
86) Perylene-d12	25.192	264	320908	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.744	112	208706	83.471	ng	0.00
7) Phenol-d6	7.348	99	283969	82.766	ng	0.00
23) Nitrobenzene-d5	9.381	82	170040	59.028	ng	0.00
42) 2,4,6-Tribromophenol	16.314	330	181582	89.917	ng	0.00
45) 2-Fluorobiphenyl	13.470	172	458707	49.692	ng	0.00
79) Terphenyl-d14	20.168	244	826307	55.743	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.618	178	345695	18.129	ng	100
72) Anthracene	17.706	178	97177	5.010	ng	99
75) Fluoranthene	19.616	202	763677	31.969	ng	99
78) Pyrene	19.974	202	629417	34.437	ng	100
81) Benzo(a)anthracene	21.831	228	291015	15.689	ng	99
83) Chrysene	21.896	228	248103	14.057	ng	98
87) Indeno(1,2,3-cd)pyrene	29.005	276	188649	7.991	ng	100
88) Benzo(b)fluoranthene	24.134	252	359071	18.247	ng	98
89) Benzo(k)fluoranthene	24.193	252	126308m	6.414	ng	
90) Benzo(a)pyrene	25.033	252	273925	15.144	ng	98
91) Dibenzo(a,h)anthracene	29.058	278	43231m	2.254	ng	
92) Benzo(g,h,i)perylene	30.204	276	174816	9.542	ng	96

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

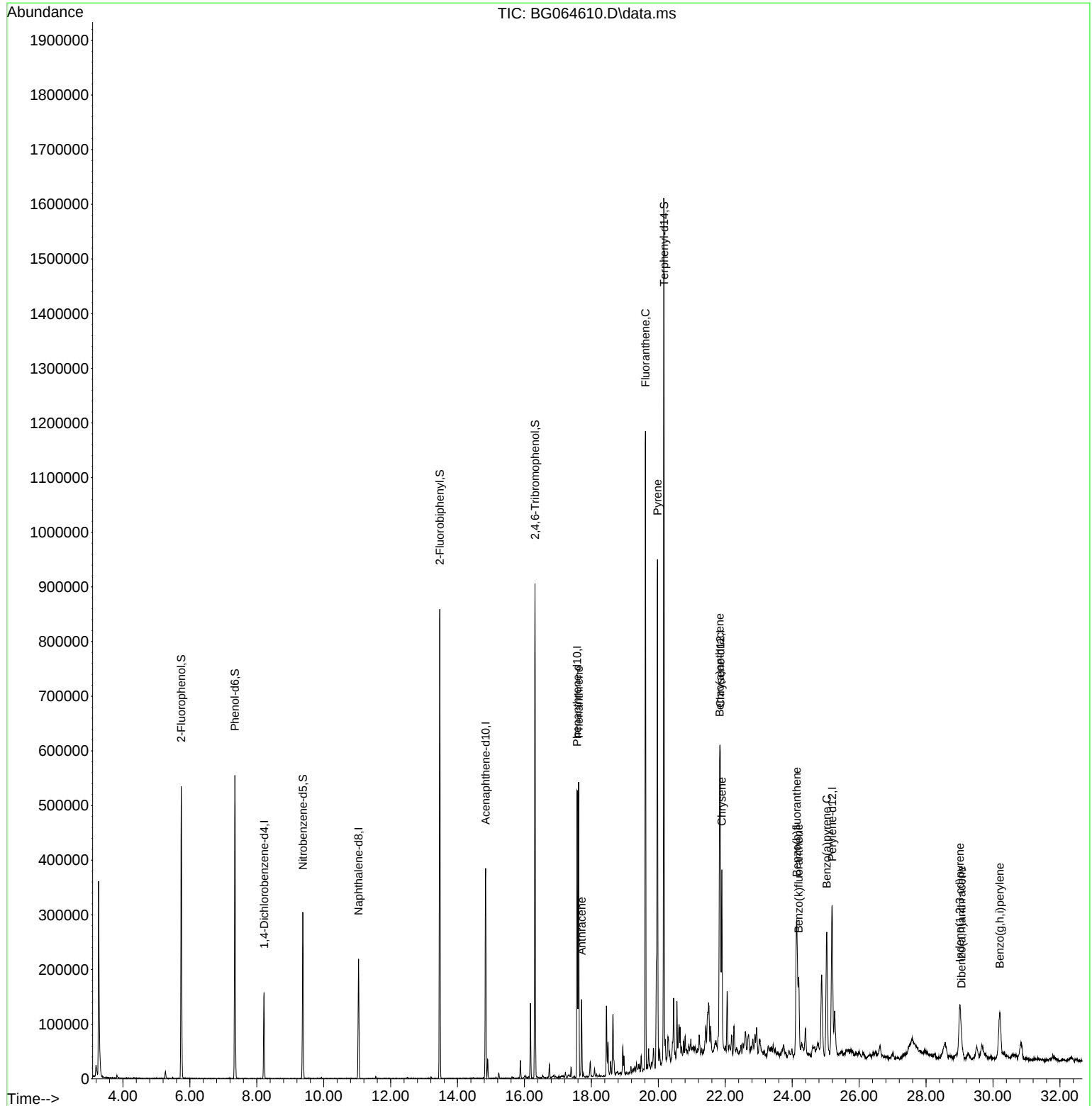
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102825\
Data File : BG064610.D
Acq On : 28 Oct 2025 20:37
Operator : RC/JU
Sample : Q3451-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

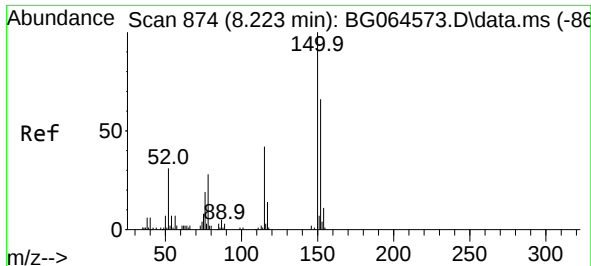
Instrument :
BNA_G
ClientSampleId :
TP-12

Quant Time: Nov 04 05:54:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 03 18:16:26 2025
Response via : Initial Calibration

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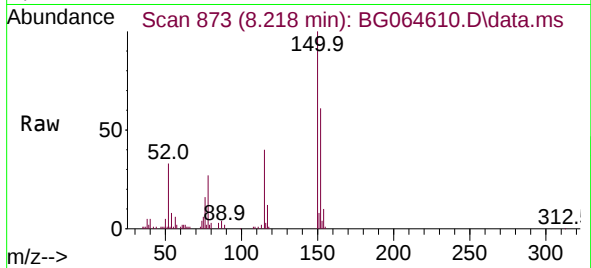
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.218 min Scan# 81
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

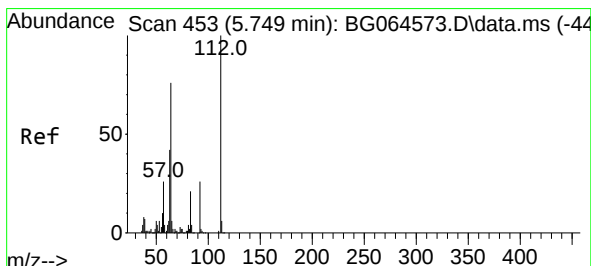
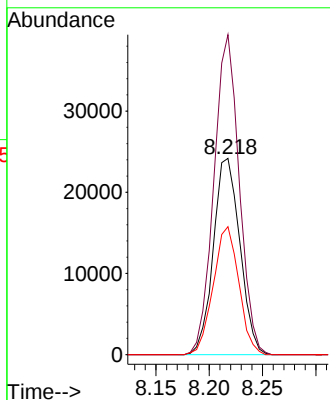
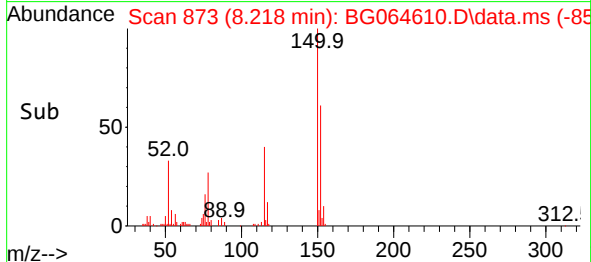
Instrument :
BNA_G
ClientSampleId :
TP-12



Tgt Ion:152 Resp: 41968
Ion Ratio Lower Upper
152 100
150 163.1 122.2 183.4
115 65.2 50.8 76.2

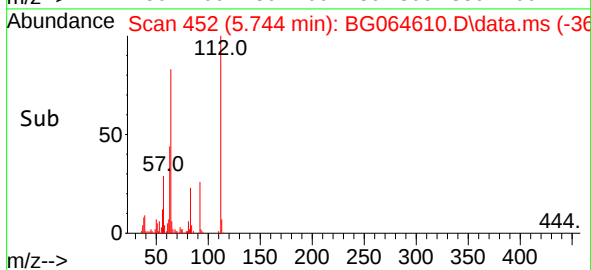
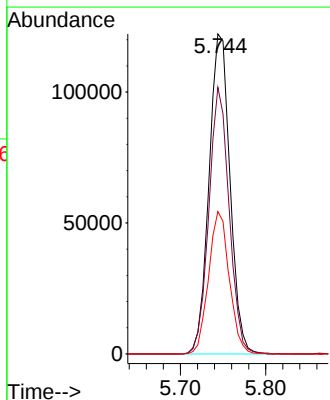
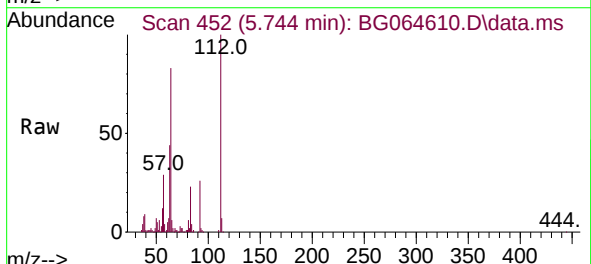
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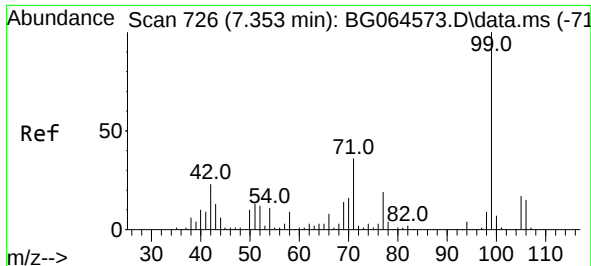
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#5
2-Fluorophenol
Concen: 83.471 ng
RT: 5.744 min Scan# 452
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

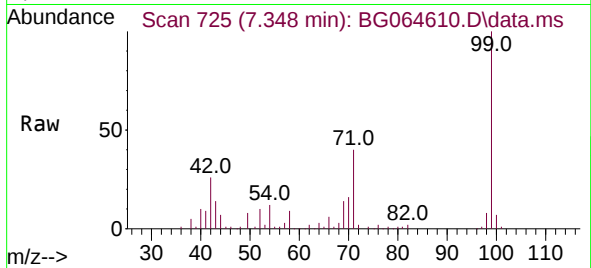
Tgt Ion:112 Resp: 208706
Ion Ratio Lower Upper
112 100
64 83.3 60.7 91.1
63 44.5 33.4 50.0





#7
Phenol-d6
Concen: 82.766 ng
RT: 7.348 min Scan# 71
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

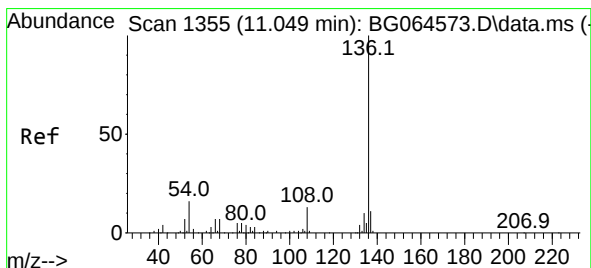
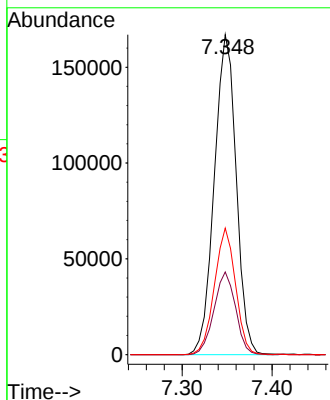
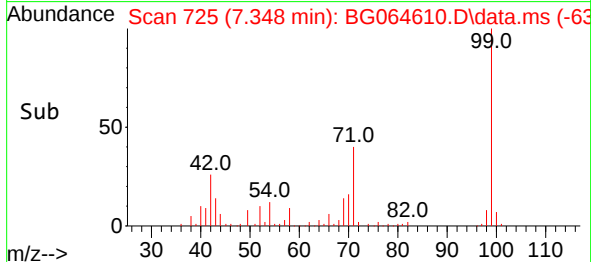
Instrument :
BNA_G
ClientSampleId :
TP-12



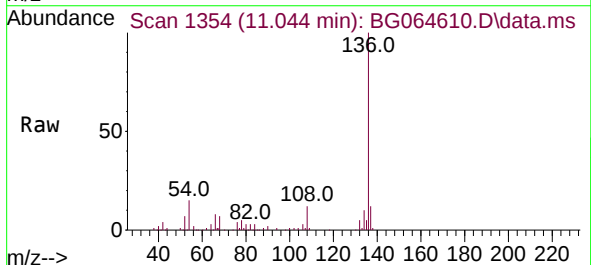
Tgt Ion: 99 Resp: 283969
Ion Ratio Lower Upper
99 100
42 25.8 18.3 27.5
71 39.5 28.6 43.0

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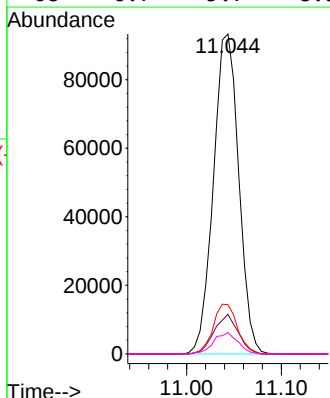
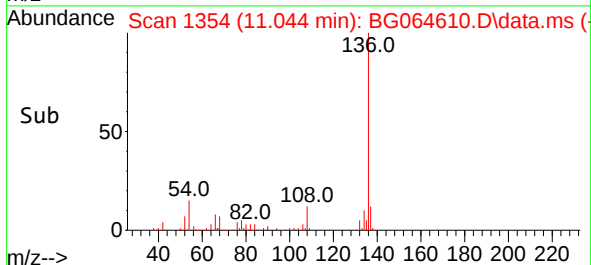
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025

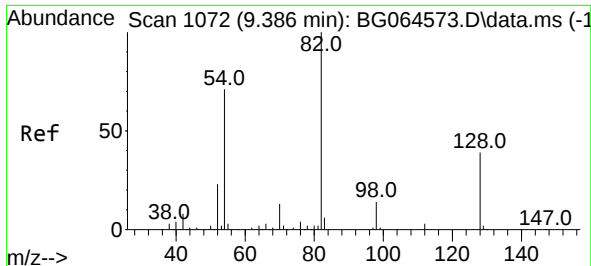


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.044 min Scan# 1354
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37



Tgt Ion:136 Resp: 173020
Ion Ratio Lower Upper
136 100
137 12.4 9.2 13.8
54 15.4 12.6 19.0
68 6.7 5.7 8.5





#23

Nitrobenzene-d5

Concen: 59.028 ng

RT: 9.381 min Scan# 10

Delta R.T. -0.005 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

Instrument :

BNA_G

ClientSampleId :

TP-12

Tgt Ion: 82 Resp: 170040

Ion Ratio Lower Upper

82 100

128 37.6 31.3 46.9

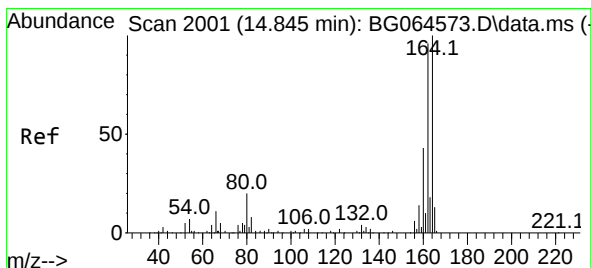
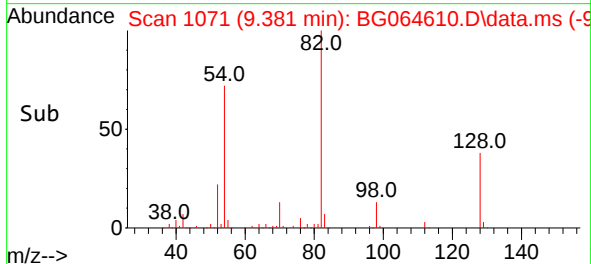
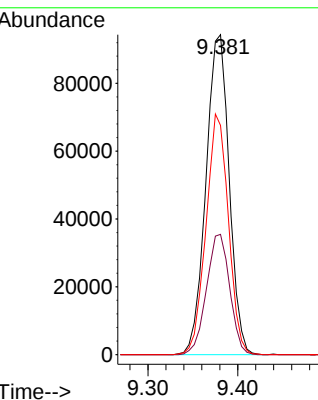
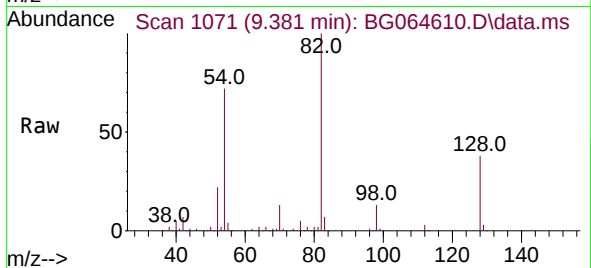
54 71.6 56.6 84.8

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Supervised By :mohammad ahmed 11/05/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.839 min Scan# 2000

Delta R.T. -0.005 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

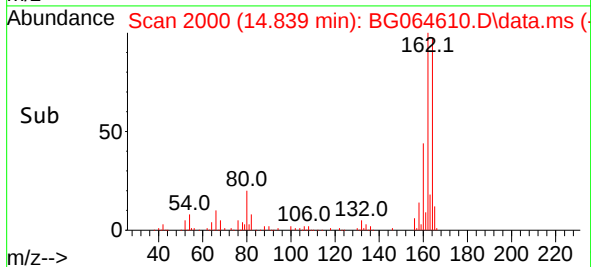
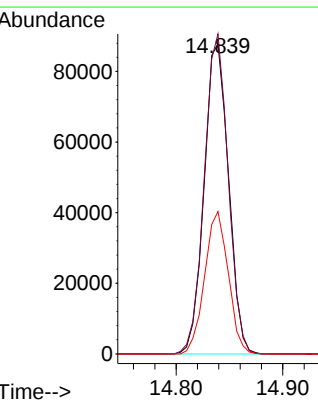
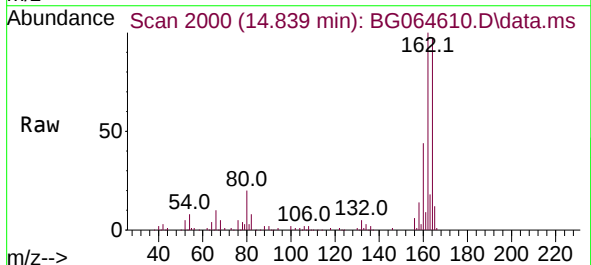
Tgt Ion:164 Resp: 139918

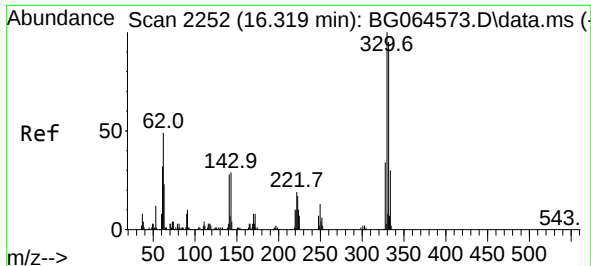
Ion Ratio Lower Upper

164 100

162 103.1 77.0 115.6

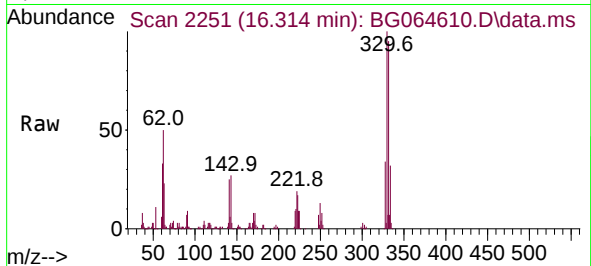
160 45.8 34.4 51.6





#42
2,4,6-Tribromophenol
Concen: 89.917 ng
RT: 16.314 min Scan# 2252
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

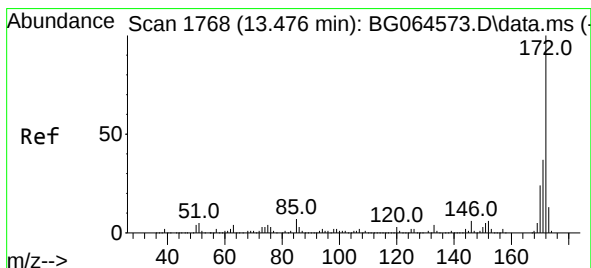
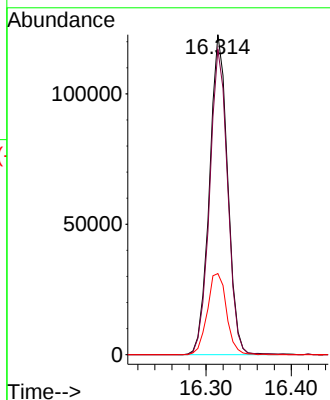
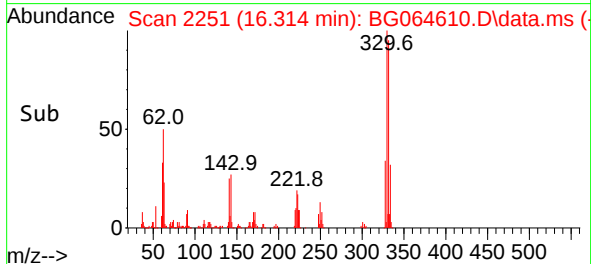
Instrument :
BNA_G
ClientSampleId :
TP-12



Tgt Ion:330 Resp: 181582
Ion Ratio Lower Upper
330 100
332 94.5 78.0 117.0
141 26.7 21.8 32.6

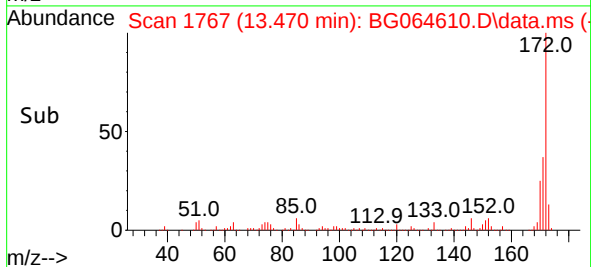
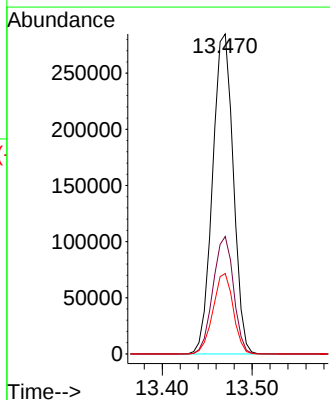
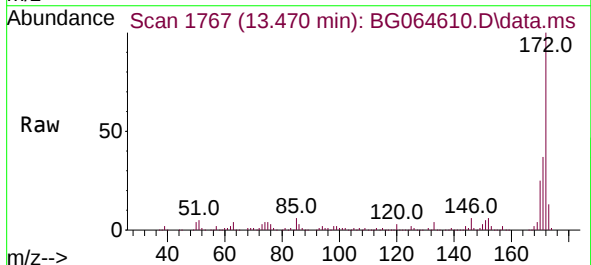
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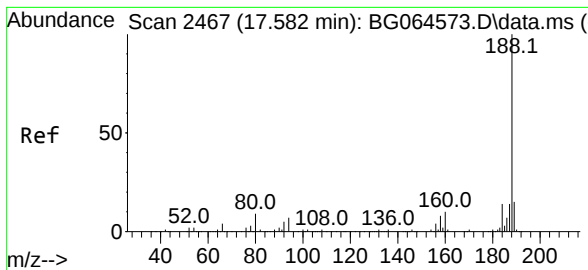
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#45
2-Fluorobiphenyl
Concen: 49.692 ng
RT: 13.470 min Scan# 1767
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Tgt Ion:172 Resp: 458707
Ion Ratio Lower Upper
172 100
171 36.7 29.4 44.0
170 25.1 19.1 28.7





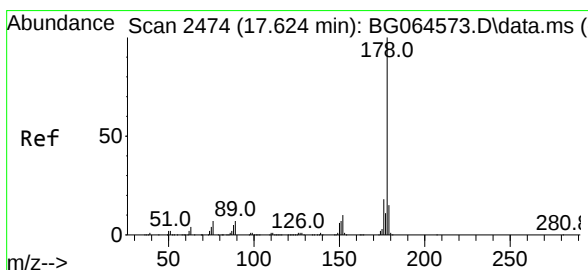
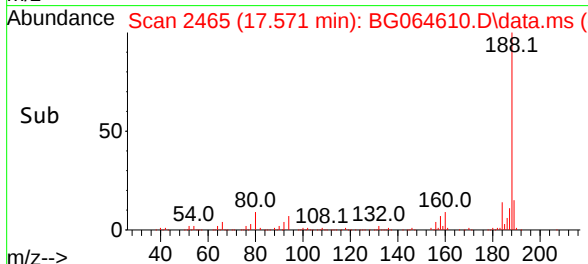
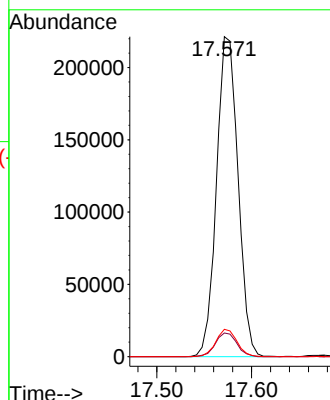
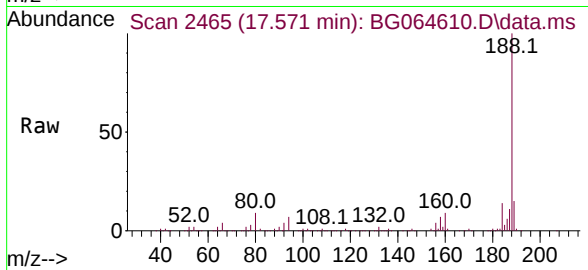
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.571 min Scan# 2465
Delta R.T. -0.011 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Instrument :
BNA_G
ClientSampleId :
TP-12

Tgt Ion:188 Resp: 348691
Ion Ratio Lower Upper
188 100
94 7.4 5.7 8.5
80 8.5 6.8 10.2

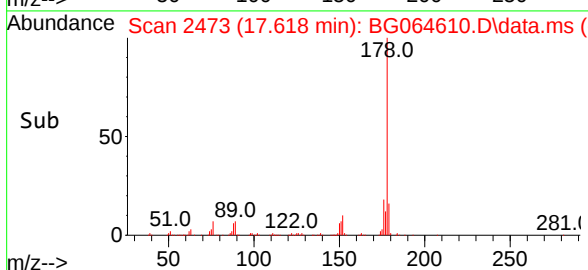
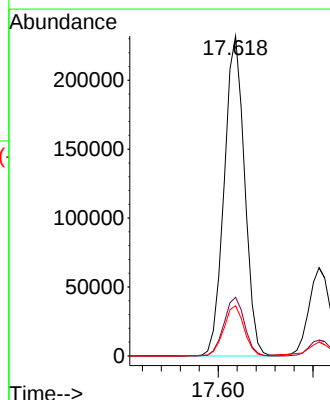
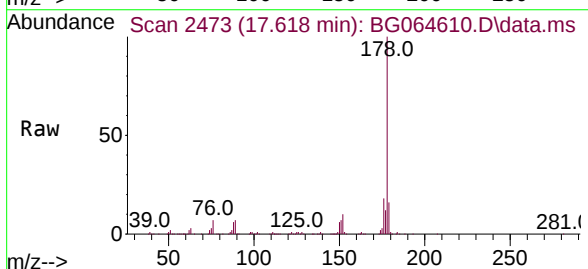
Manual Integrations
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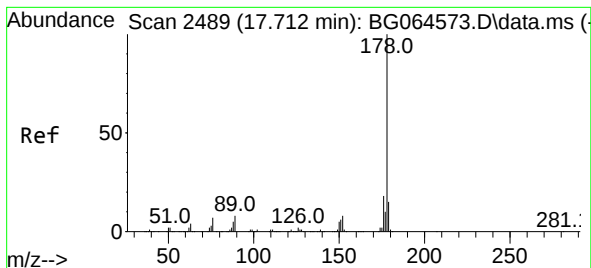
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#71
Phenanthrene
Concen: 18.129 ng
RT: 17.618 min Scan# 2473
Delta R.T. -0.005 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Tgt Ion:178 Resp: 345695
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.7 12.2 18.4





#72

Anthracene

Concen: 5.010 ng

RT: 17.706 min Scan# 2489

Delta R.T. -0.005 min

Lab File: BG064610.D

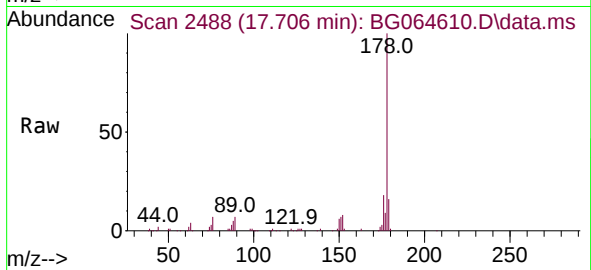
Acq: 28 Oct 2025 20:37

Instrument :

BNA_G

ClientSampleId :

TP-12



Tgt Ion:178 Resp: 97177

Ion Ratio Lower Upper

178 100

176 17.9 14.4 21.6

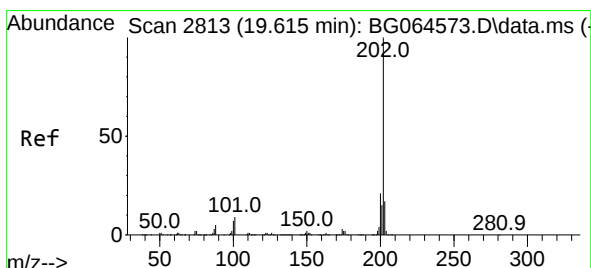
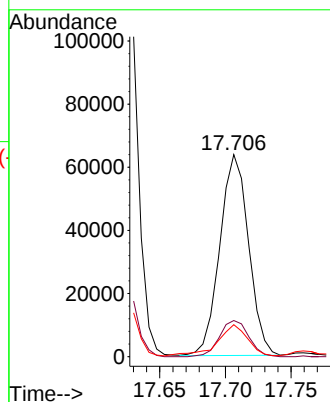
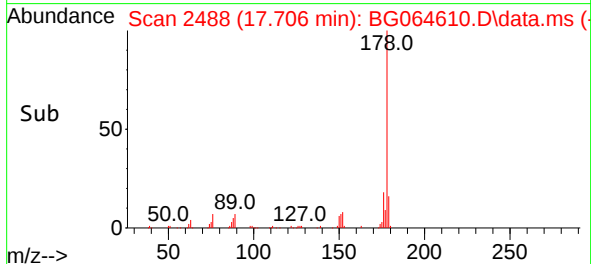
179 15.8 12.4 18.6

Manual Integrations

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Supervised By :mohammad ahmed 11/05/2025



#75

Fluoranthene

Concen: 31.969 ng

RT: 19.616 min Scan# 2813

Delta R.T. 0.001 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

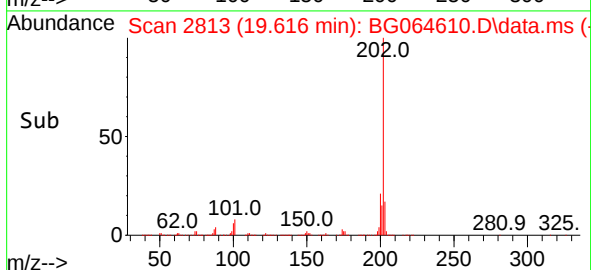
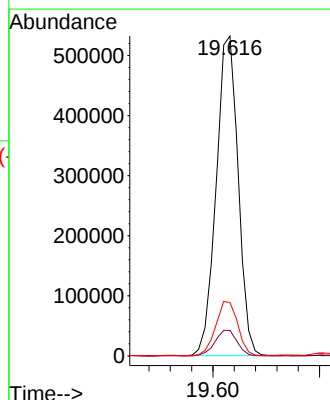
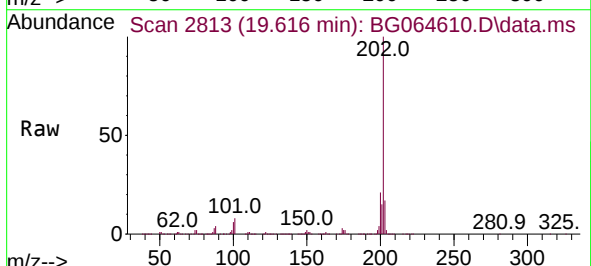
Tgt Ion:202 Resp: 763677

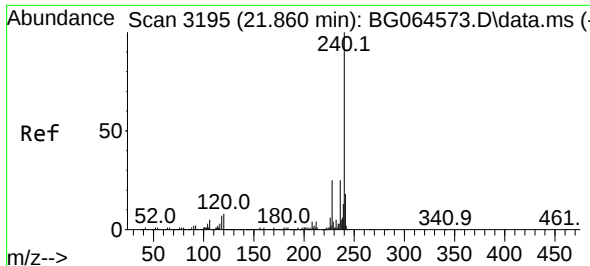
Ion Ratio Lower Upper

202 100

101 8.0 0.0 28.7

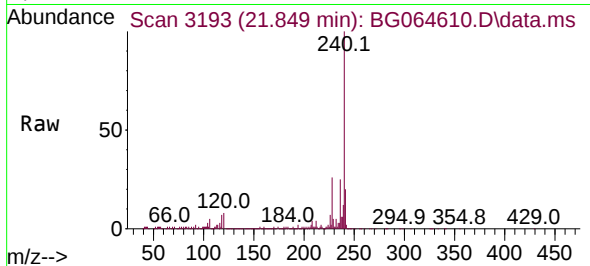
203 16.7 0.0 37.0





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.849 min Scan# 3193
Delta R.T. -0.011 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

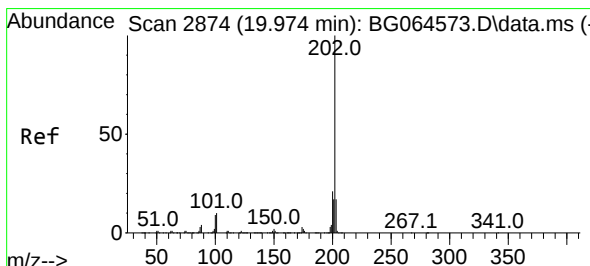
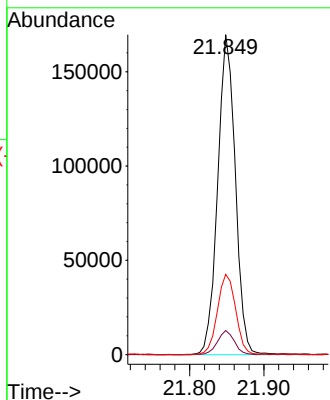
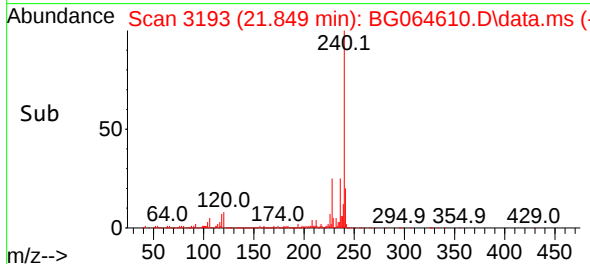
Instrument :
BNA_G
ClientSampleId :
TP-12



Tgt Ion:240 Resp: 279745
Ion Ratio Lower Upper
240 100
120 7.5 6.5 9.7
236 25.1 20.2 30.2

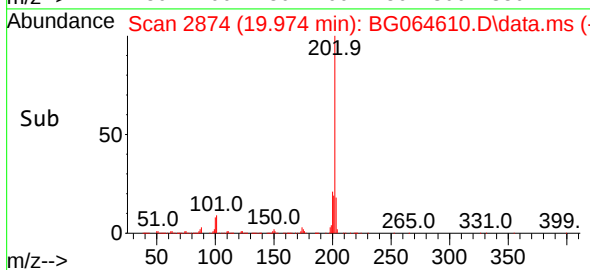
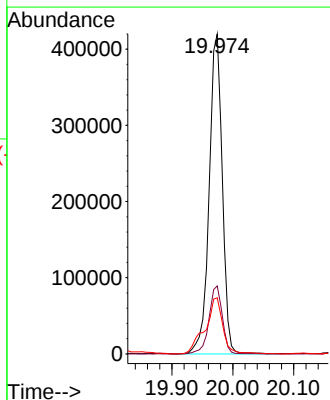
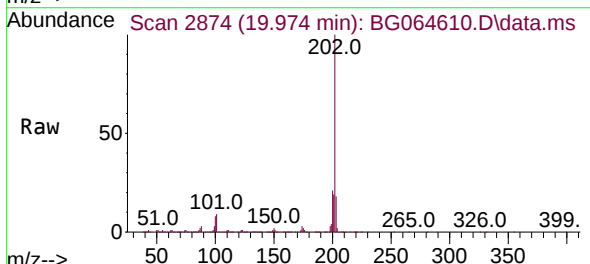
Manual Integrations
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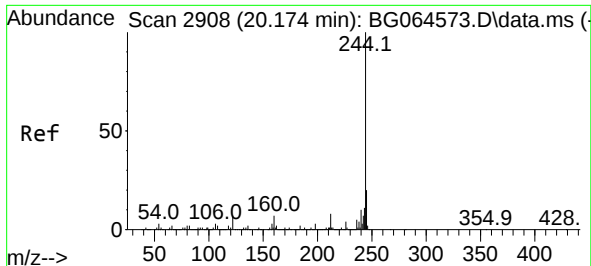
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#78
Pyrene
Concen: 34.437 ng
RT: 19.974 min Scan# 2874
Delta R.T. 0.001 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

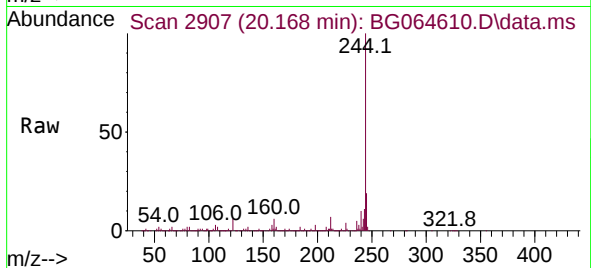
Tgt Ion:202 Resp: 629417
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.5 13.8 20.6





#79
 Terphenyl-d14
 Concen: 55.743 ng
 RT: 20.168 min Scan# 2907
 Delta R.T. -0.005 min
 Lab File: BG064610.D
 Acq: 28 Oct 2025 20:37

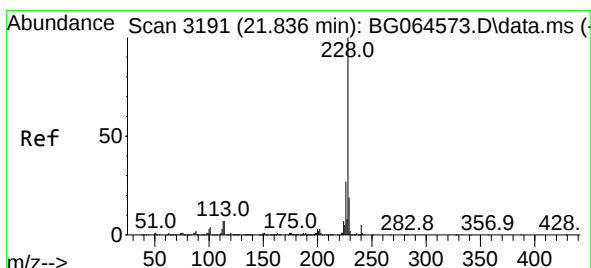
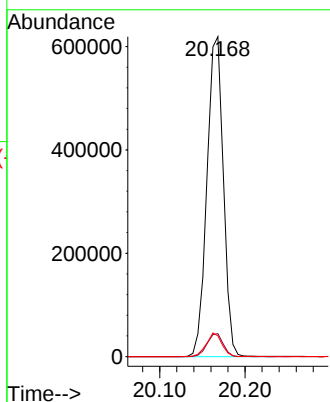
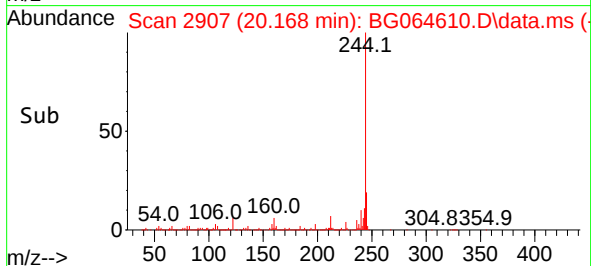
Instrument :
 BNA_G
 ClientSampleId :
 TP-12



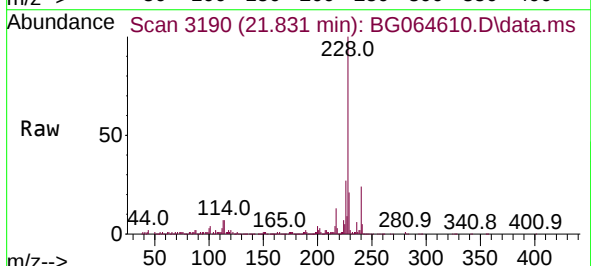
Tgt Ion:244 Resp: 826307
 Ion Ratio Lower Upper
 244 100
 212 7.2 6.1 9.1
 122 6.5 5.6 8.4

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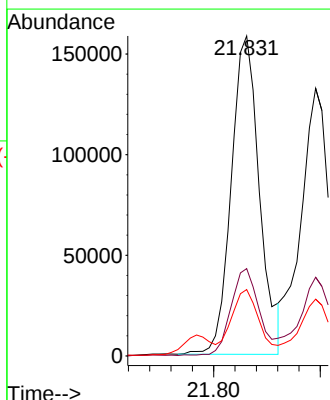
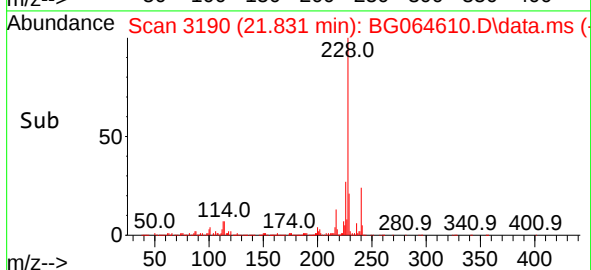
Reviewed By :Rahul Chavli 10/29/2025
 Supervised By :mohammad ahmed 11/05/2025

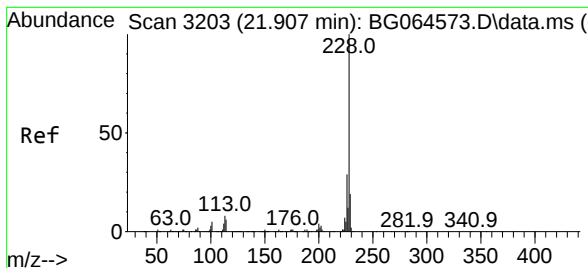


#81
 Benzo(a)anthracene
 Concen: 15.689 ng
 RT: 21.831 min Scan# 3190
 Delta R.T. -0.005 min
 Lab File: BG064610.D
 Acq: 28 Oct 2025 20:37



Tgt Ion:228 Resp: 291015
 Ion Ratio Lower Upper
 228 100
 226 27.3 21.9 32.9
 229 20.7 15.6 23.4





#83

Chrysene

Concen: 14.057 ng

RT: 21.896 min Scan# 31

Delta R.T. -0.011 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

Instrument :

BNA_G

ClientSampleId :

TP-12

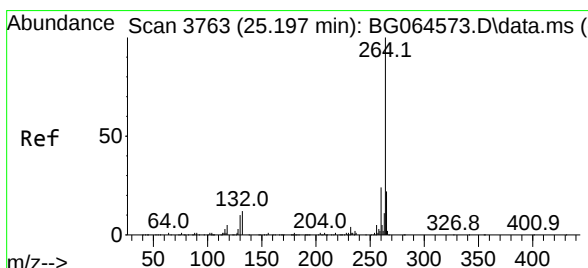
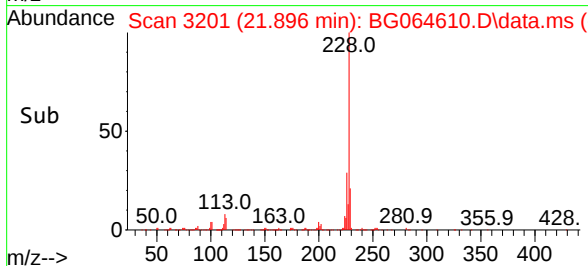
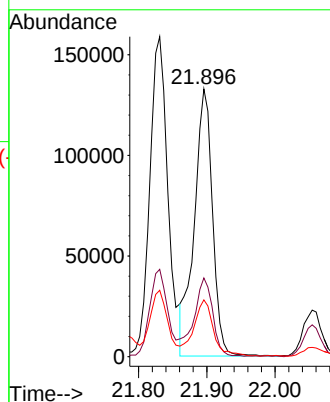
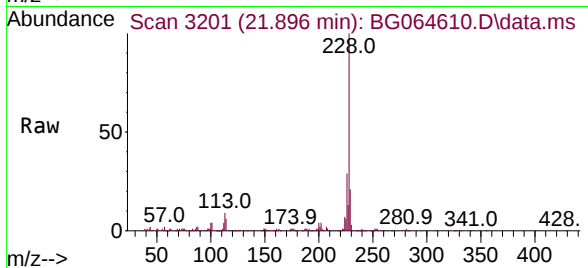
Tgt Ion:228 Resp: 248103
 Ion Ratio Lower Upper
 228 100
 226 29.4 23.3 34.9
 229 21.2 15.2 22.8

Manual Integrations

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#86

Perylene-d12

Concen: 20.000 ng

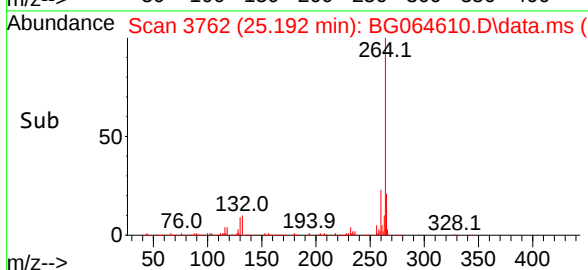
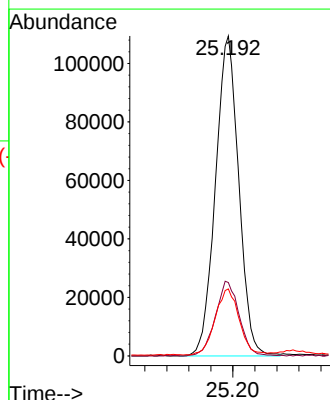
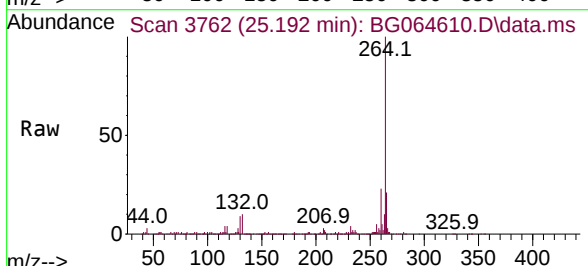
RT: 25.192 min Scan# 3762

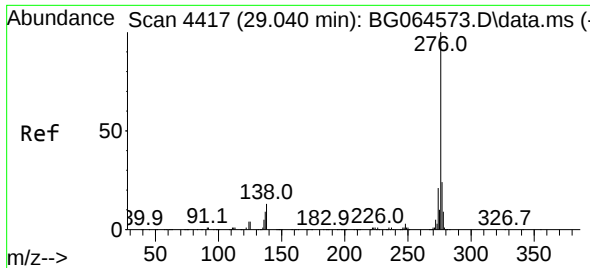
Delta R.T. -0.005 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

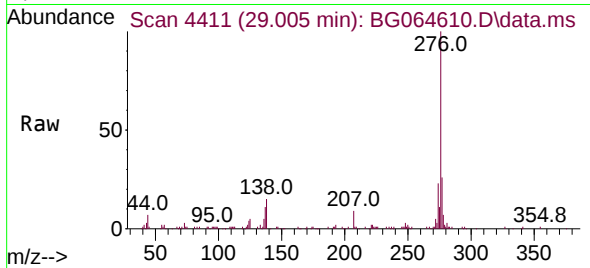
Tgt Ion:264 Resp: 320908
 Ion Ratio Lower Upper
 264 100
 260 22.9 19.0 28.4
 265 20.9 17.6 26.4





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 7.991 ng
 RT: 29.005 min Scan# 4417
 Delta R.T. -0.035 min
 Lab File: BG064610.D
 Acq: 28 Oct 2025 20:37

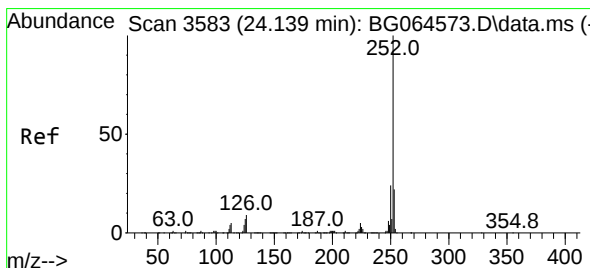
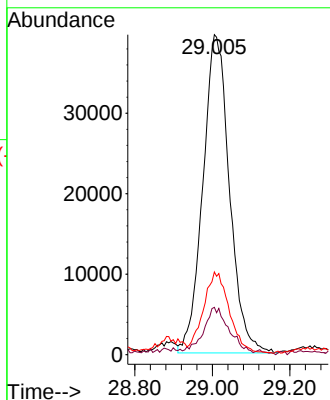
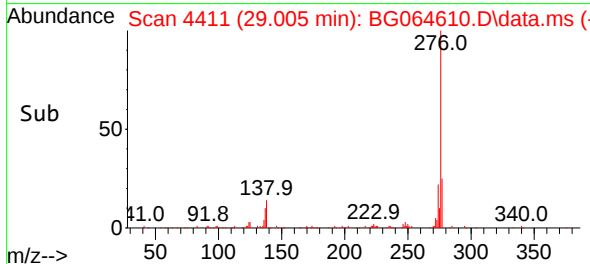
Instrument :
 BNA_G
 ClientSampleId :
 TP-12



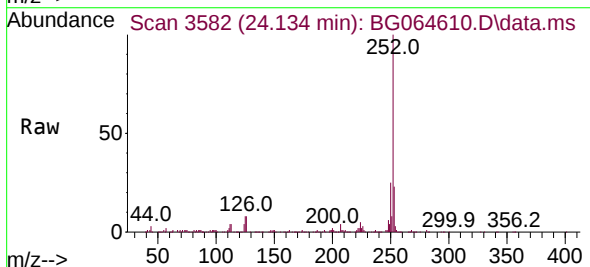
Tgt Ion:276 Resp: 188649
 Ion Ratio Lower Upper
 276 100
 138 13.6 10.8 16.2
 277 25.0 20.1 30.1

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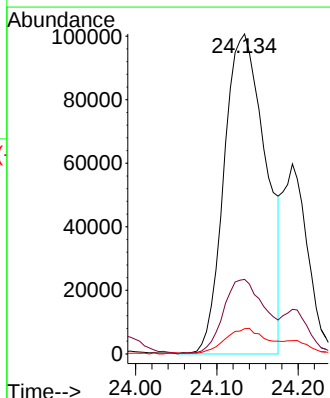
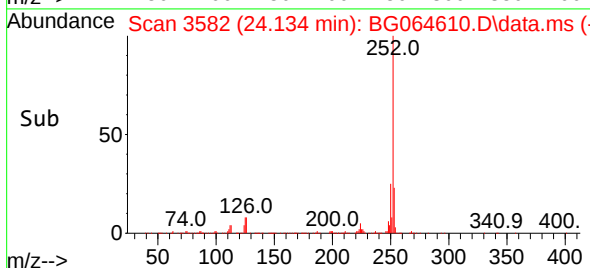
Reviewed By :Rahul Chavli 10/29/2025
 Supervised By :mohammad ahmed 11/05/2025

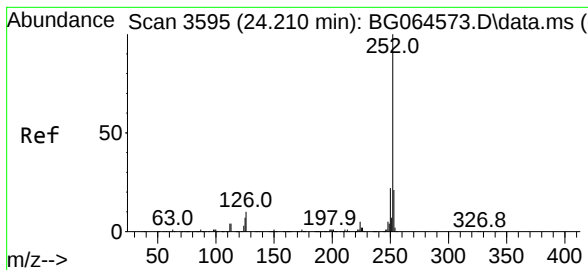


#88
 Benzo(b)fluoranthene
 Concen: 18.247 ng
 RT: 24.134 min Scan# 3582
 Delta R.T. -0.005 min
 Lab File: BG064610.D
 Acq: 28 Oct 2025 20:37



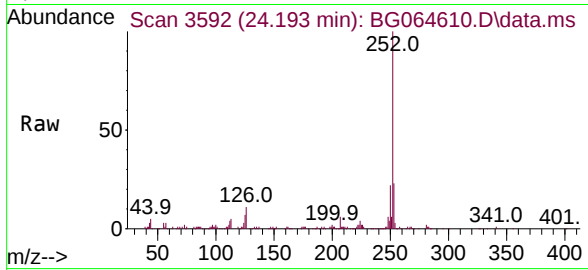
Tgt Ion:252 Resp: 359071
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.8 26.8
 125 7.9 5.6 8.4





#89
Benzo(k)fluoranthene
Concen: 6.414 ng m
RT: 24.193 min Scan# 3592
Delta R.T. -0.017 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

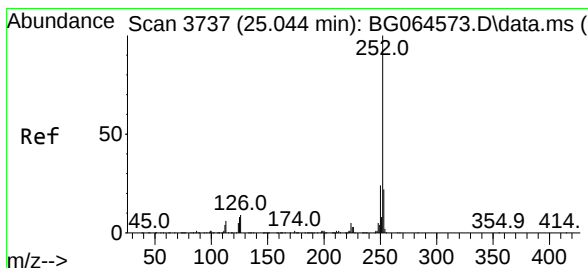
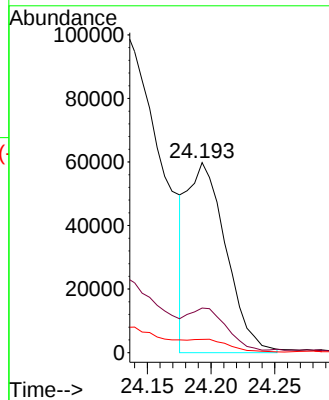
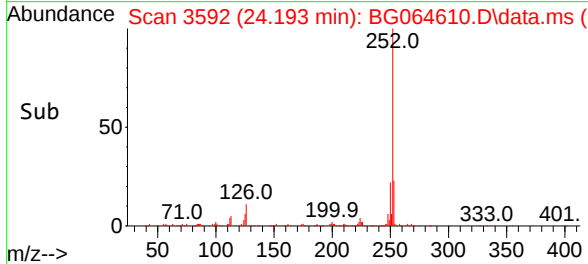
Instrument :
BNA_G
ClientSampleId :
TP-12



Tgt Ion:252 Resp: 126308
Ion Ratio Lower Upper
252 100
253 23.5 16.8 25.2
125 7.0 5.4 8.0

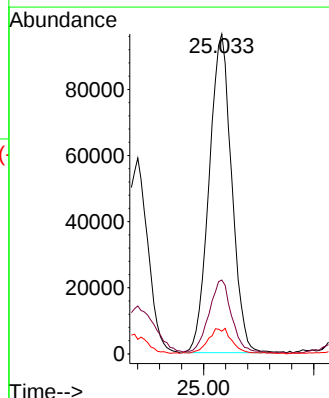
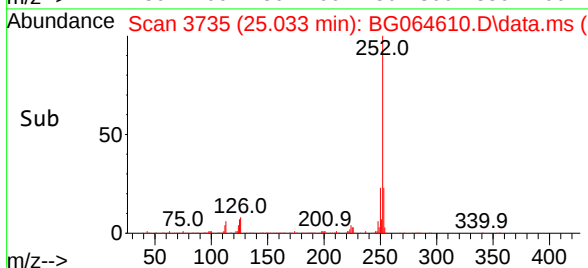
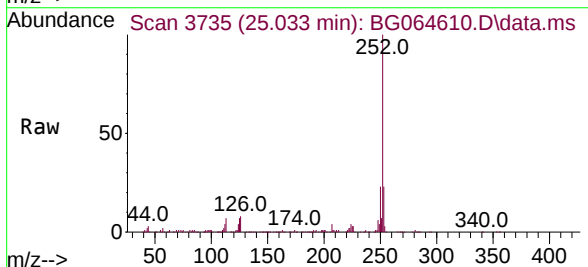
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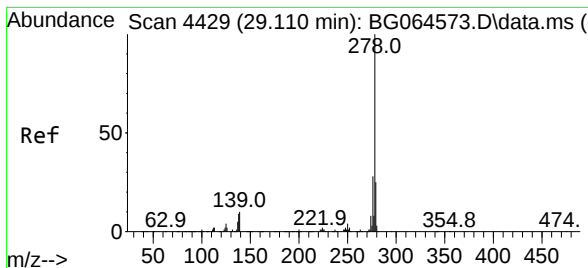
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#90
Benzo(a)pyrene
Concen: 15.144 ng
RT: 25.033 min Scan# 3735
Delta R.T. -0.011 min
Lab File: BG064610.D
Acq: 28 Oct 2025 20:37

Tgt Ion:252 Resp: 273925
Ion Ratio Lower Upper
252 100
253 23.1 17.6 26.4
125 7.1 6.1 9.1





#91

Dibenzo(a,h)anthracene

Concen: 2.254 ng m

RT: 29.058 min Scan# 4429

Delta R.T. -0.052 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

Instrument :

BNA_G

ClientSampleId :

TP-12

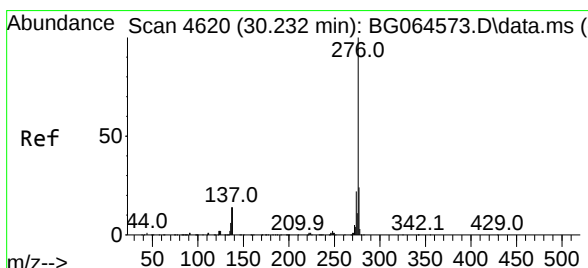
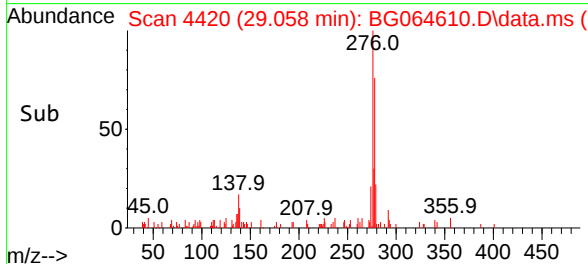
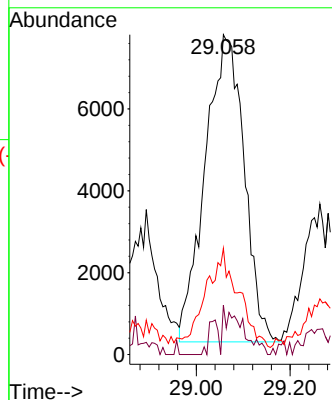
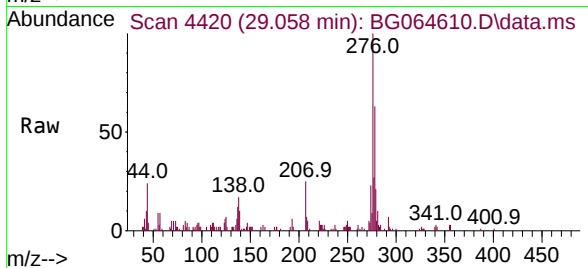
Tgt Ion:278 Resp: 43231
 Ion Ratio Lower Upper
 278 100
 139 15.5 8.0 12.0
 279 33.2 19.8 29.6

Manual Integrations

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Reviewed By :Rahul Chavli 10/29/2025

Supervised By :mohammad ahmed 11/05/2025



#92

Benzo(g,h,i)perylene

Concen: 9.542 ng

RT: 30.204 min Scan# 4615

Delta R.T. -0.029 min

Lab File: BG064610.D

Acq: 28 Oct 2025 20:37

Tgt Ion:276 Resp: 174816
 Ion Ratio Lower Upper
 276 100
 277 22.3 19.1 28.7
 138 16.2 11.3 16.9

