

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102825\
 Data File : BG064608.D
 Acq On : 28 Oct 2025 19:16
 Operator : RC/JU
 Sample : Q3452-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 JB-1

Manual Integrations
 APPROVED

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

Quant Time: Nov 04 05:54:06 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	8.216	152	37126	20.000	ng	0.00
21) Naphthalene-d8	11.042	136	135951	20.000	ng	0.00
39) Acenaphthene-d10	14.837	164	101383	20.000	ng	0.00
64) Phenanthrene-d10	17.575	188	230227	20.000	ng	0.00
76) Chrysene-d12	21.853	240	273350	20.000	ng	0.00
86) Perylene-d12	25.190	264	302106	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.748	112	157381	71.153	ng	0.00
7) Phenol-d6	7.346	99	198726	65.475	ng	0.00
23) Nitrobenzene-d5	9.379	82	117049	51.712	ng	0.00
42) 2,4,6-Tribromophenol	16.312	330	100142	68.438	ng	0.00
45) 2-Fluorobiphenyl	13.468	172	222540	33.271	ng	0.00
79) Terphenyl-d14	20.166	244	450496	31.102	ng	0.00
Target Compounds						Qvalue
20) 3+4-Methylphenols	8.962	107	28751	9.174	ng	93
71) Phenanthrene	17.616	178	170620	13.552	ng	98
72) Anthracene	17.705	178	53926	4.211	ng	97
75) Fluoranthene	19.614	202	274726	17.418	ng	98
78) Pyrene	19.973	202	258489	14.474	ng	99
81) Benzo(a)anthracene	21.829	228	150545	8.306	ng	98
83) Chrysene	21.894	228	150204m	8.710	ng	
87) Indeno(1,2,3-cd)pyrene	29.015	276	78363	3.526	ng	# 91
88) Benzo(b)fluoranthene	24.127	252	161184	8.701	ng	# 95
89) Benzo(k)fluoranthene	24.191	252	51413	2.773	ng	# 91
90) Benzo(a)pyrene	25.031	252	119841	7.038	ng	95
92) Benzo(g,h,i)perylene	30.190	276	75433	4.373	ng	95

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

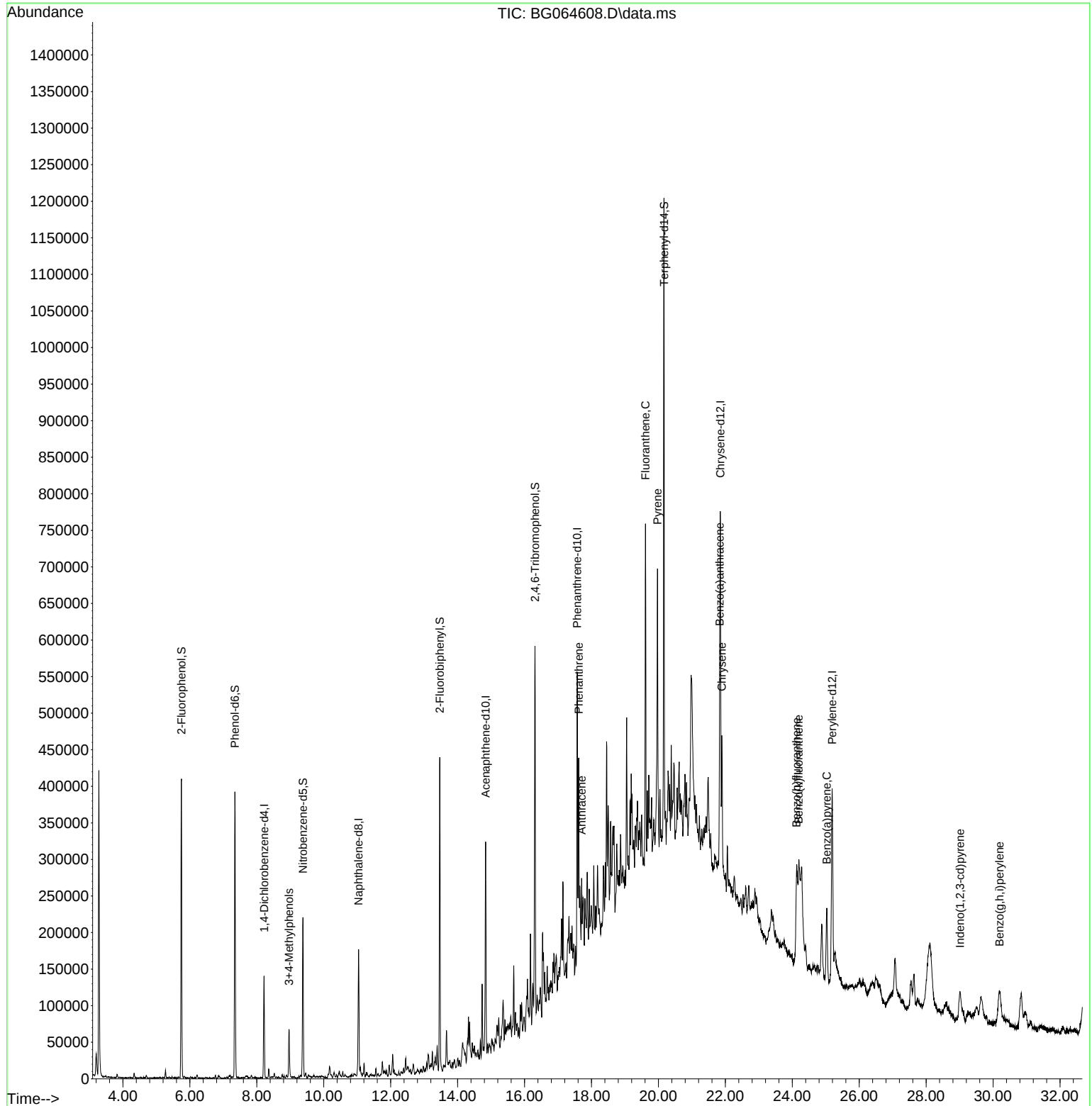
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102825\
Data File : BG064608.D
Acq On : 28 Oct 2025 19:16
Operator : RC/JU
Sample : Q3452-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

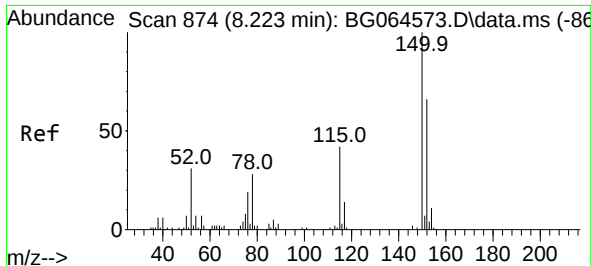
Instrument :
BNA_G
ClientSampleId :
JB-1

Quant Time: Nov 04 05:54:06 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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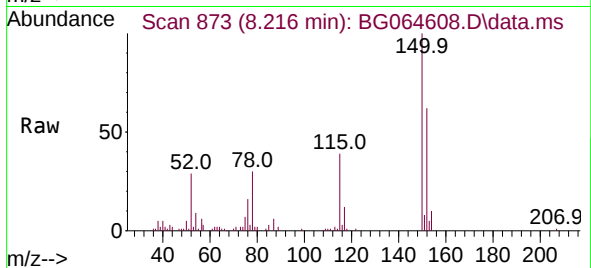
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.216 min Scan# 81
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

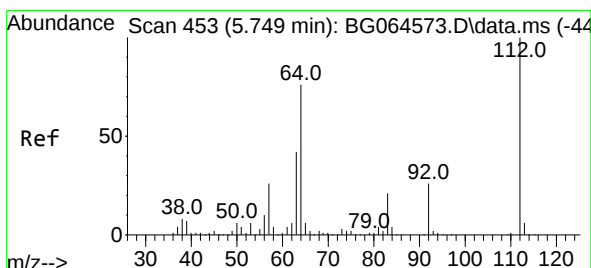
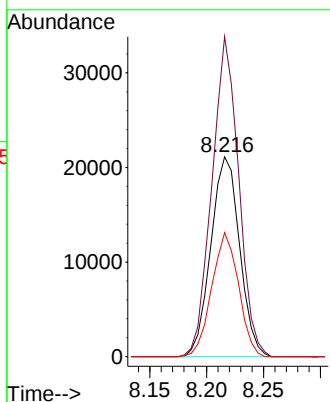
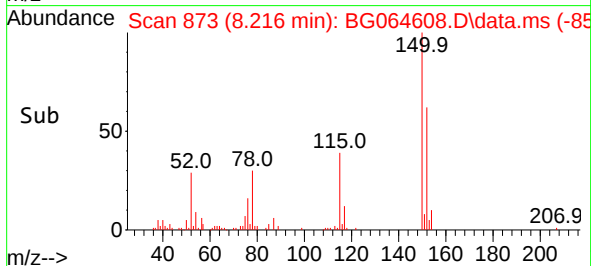
Instrument :
BNA_G
ClientSampleId :
JB-1



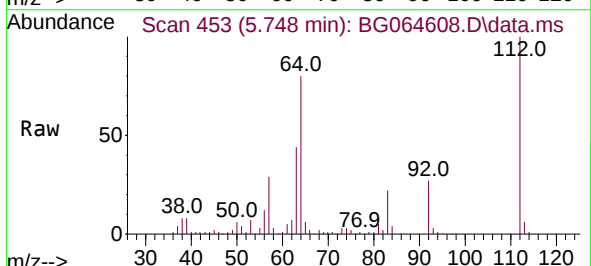
Tgt Ion:152 Resp: 37126
Ion Ratio Lower Upper
152 100
150 160.2 122.2 183.4
115 62.0 50.8 76.2

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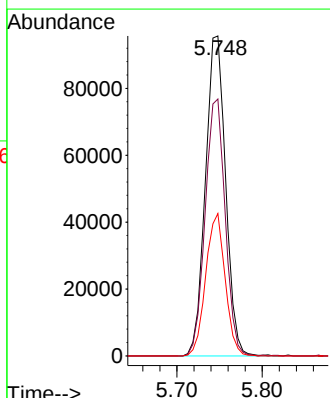
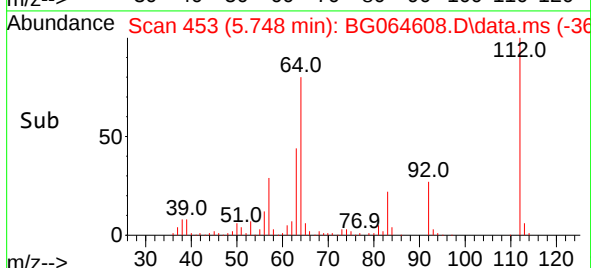
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025

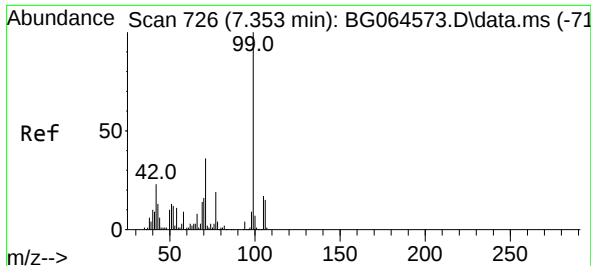


#5
2-Fluorophenol
Concen: 71.153 ng
RT: 5.748 min Scan# 453
Delta R.T. -0.001 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16



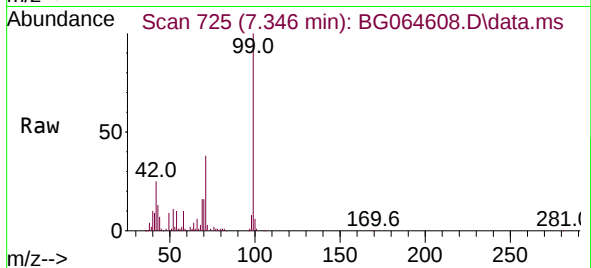
Tgt Ion:112 Resp: 157381
Ion Ratio Lower Upper
112 100
64 80.3 60.7 91.1
63 44.5 33.4 50.0





#7
Phenol-d6
Concen: 65.475 ng
RT: 7.346 min Scan# 71
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

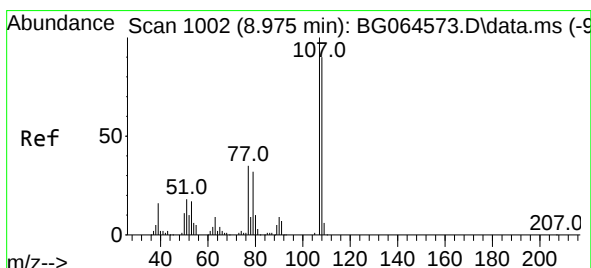
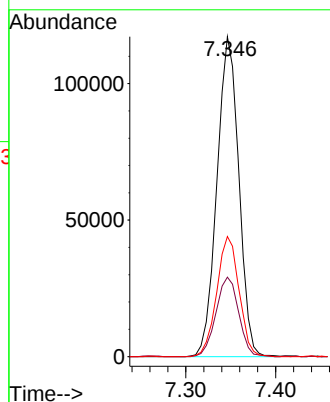
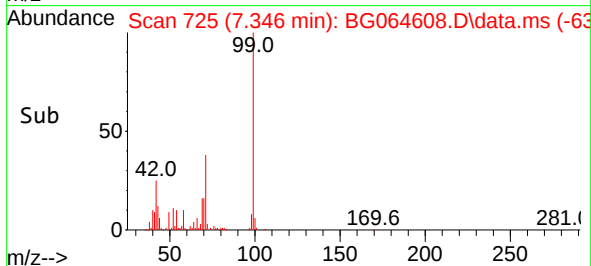
Instrument :
BNA_G
ClientSampleId :
JB-1



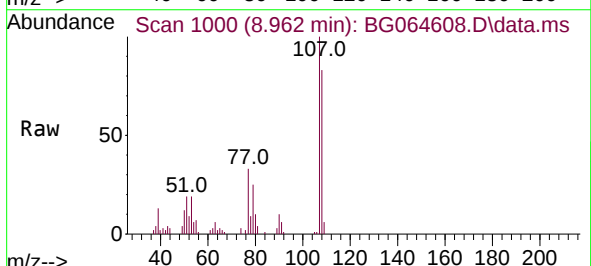
Tgt Ion: 99 Resp: 198726
Ion Ratio Lower Upper
99 100
42 24.8 18.3 27.5
71 37.5 28.6 43.0

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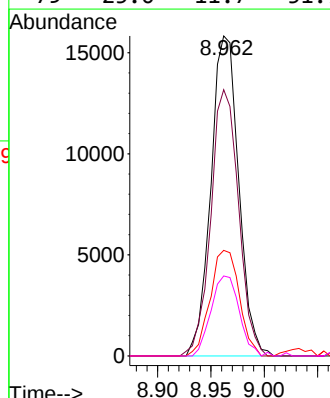
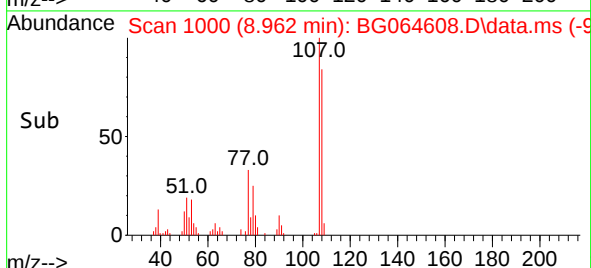
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025

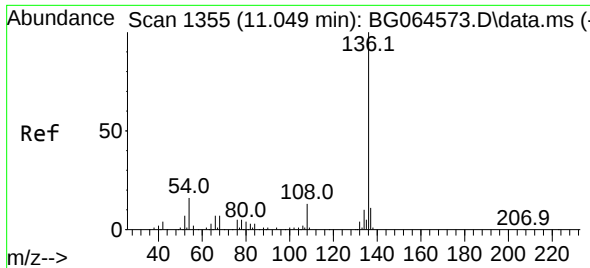


#20
3+4-Methylphenols
Concen: 9.174 ng
RT: 8.962 min Scan# 1000
Delta R.T. -0.013 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16



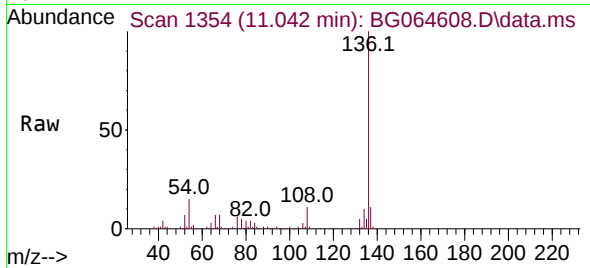
Tgt Ion:107 Resp: 28751
Ion Ratio Lower Upper
107 100
108 83.2 70.3 110.3
77 33.0 14.6 54.6
79 25.0 11.7 51.7





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.042 min Scan# 1355
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

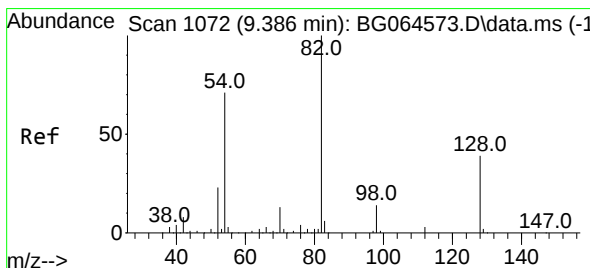
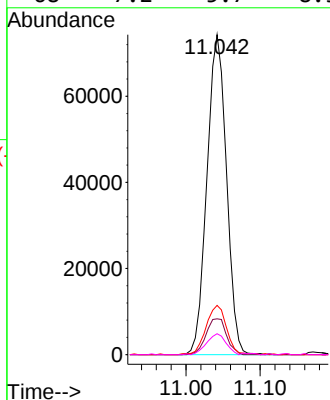
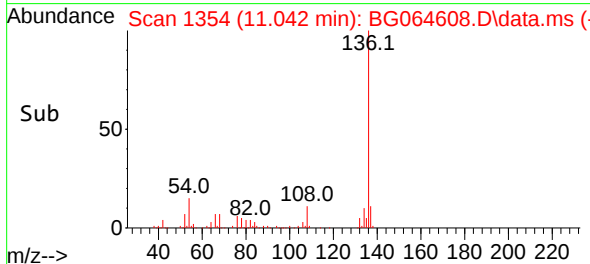
Instrument :
BNA_G
ClientSampleId :
JB-1



Tgt Ion:136 Resp: 13595
Ion Ratio Lower Upper
136 100
137 11.2 9.2 13.8
54 15.4 12.6 19.0
68 7.2 5.7 8.5

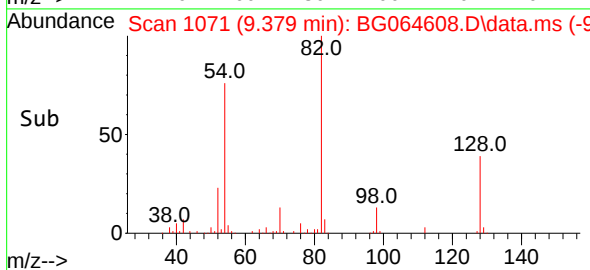
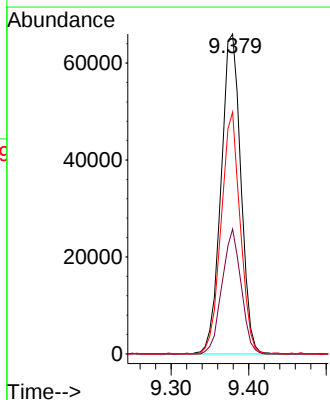
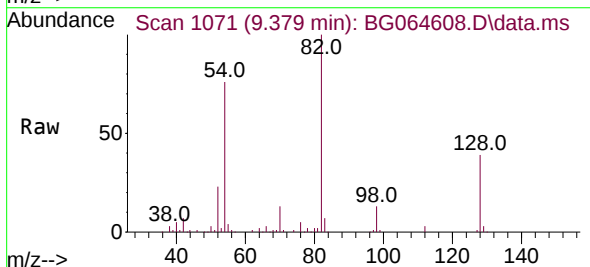
Manual Integrations
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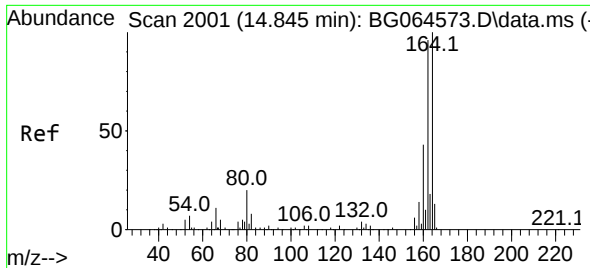
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#23
Nitrobenzene-d5
Concen: 51.712 ng
RT: 9.379 min Scan# 1071
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

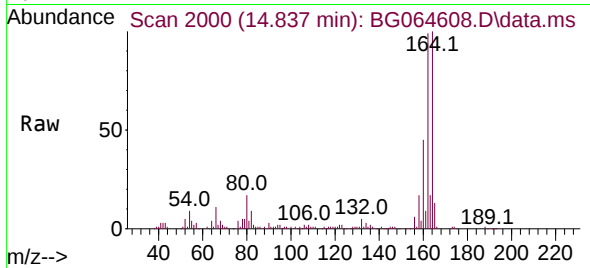
Tgt Ion: 82 Resp: 117049
Ion Ratio Lower Upper
82 100
128 39.0 31.3 46.9
54 75.6 56.6 84.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.837 min Scan# 2000
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

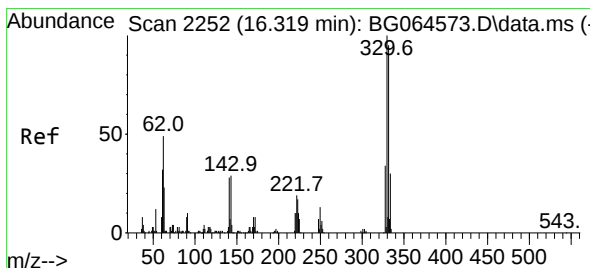
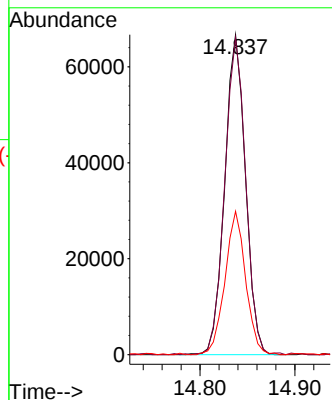
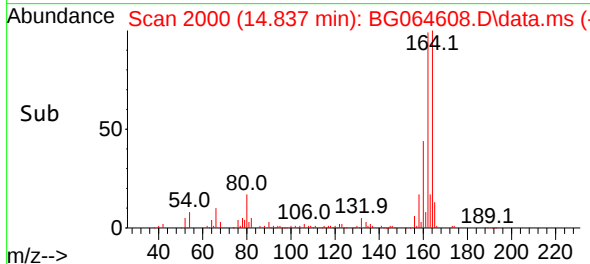
Instrument :
BNA_G
ClientSampleId :
JB-1



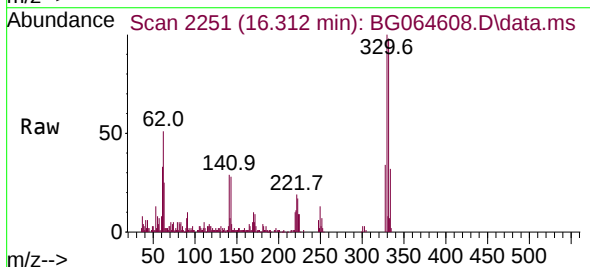
Tgt Ion:164 Resp: 101383
Ion Ratio Lower Upper
164 100
162 99.1 77.0 115.6
160 44.8 34.4 51.6

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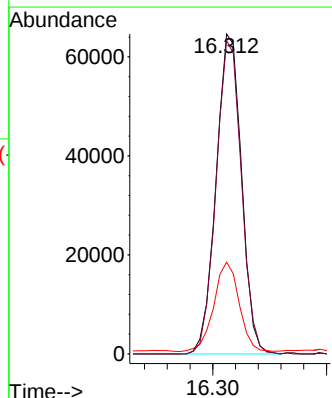
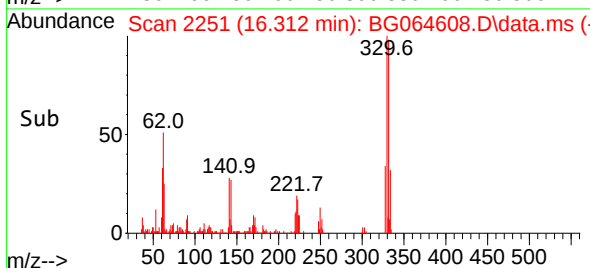
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025

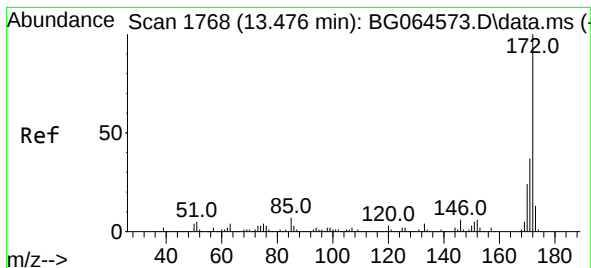


#42
2,4,6-Tribromophenol
Concen: 68.438 ng
RT: 16.312 min Scan# 2251
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16



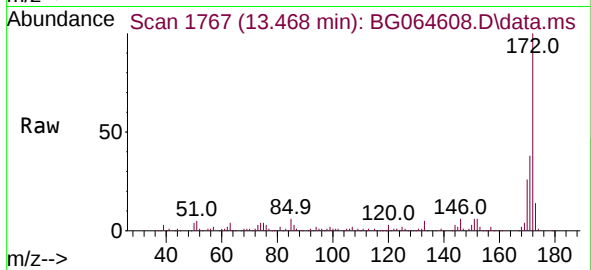
Tgt Ion:330 Resp: 100142
Ion Ratio Lower Upper
330 100
332 97.5 78.0 117.0
141 28.1 21.8 32.6





#45
2-Fluorobiphenyl
Concen: 33.271 ng
RT: 13.468 min Scan# 1767
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

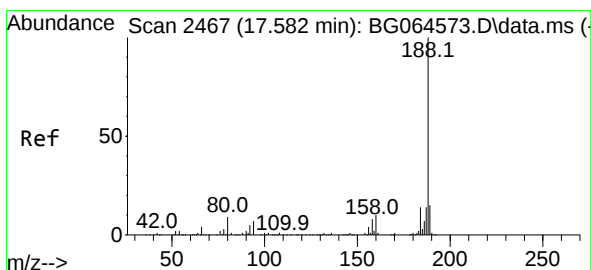
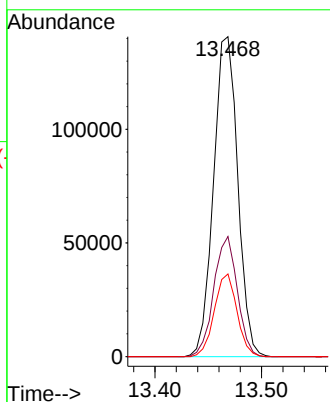
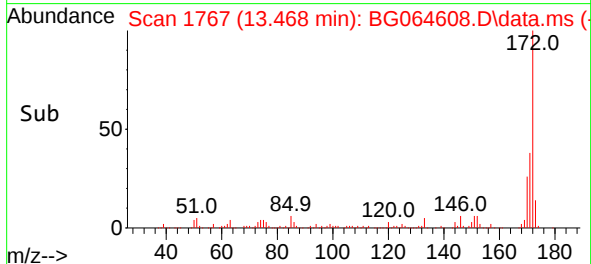
Instrument :
BNA_G
ClientSampleId :
JB-1



Tgt Ion:172 Resp: 222540
Ion Ratio Lower Upper
172 100
171 37.5 29.4 44.0
170 25.8 19.1 28.7

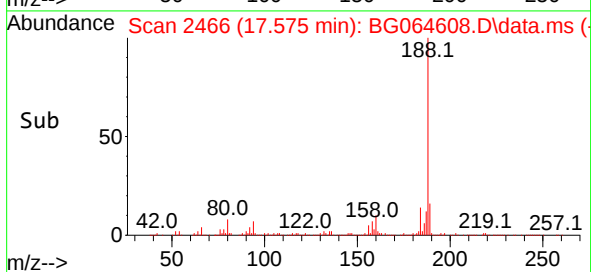
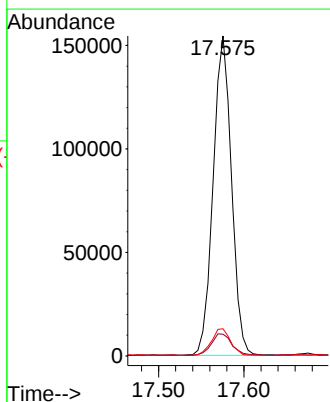
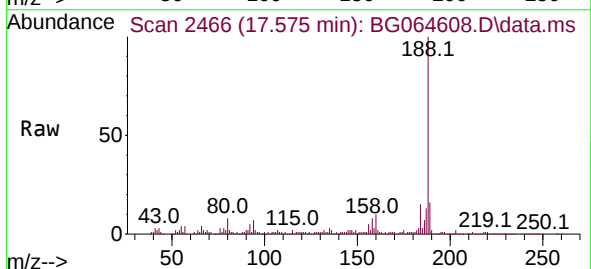
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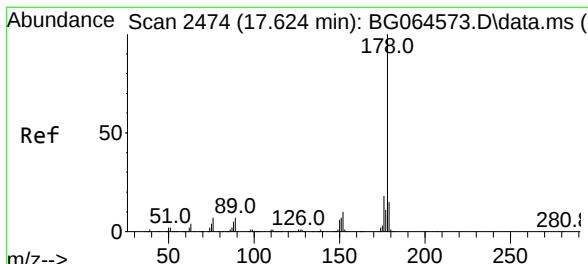
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.575 min Scan# 2466
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion:188 Resp: 230227
Ion Ratio Lower Upper
188 100
94 6.8 5.7 8.5
80 8.5 6.8 10.2





#71
 Phenanthrene
 Concen: 13.552 ng
 RT: 17.616 min Scan# 2473
 Delta R.T. -0.007 min
 Lab File: BG064608.D
 Acq: 28 Oct 2025 19:16

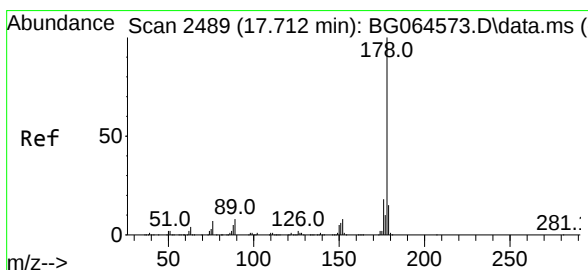
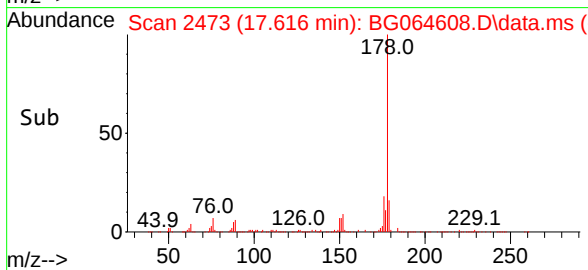
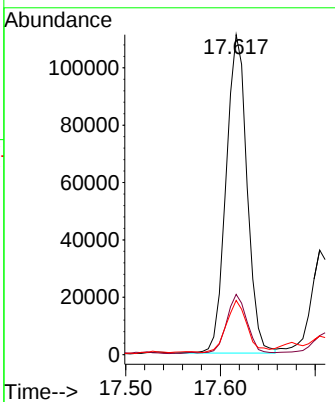
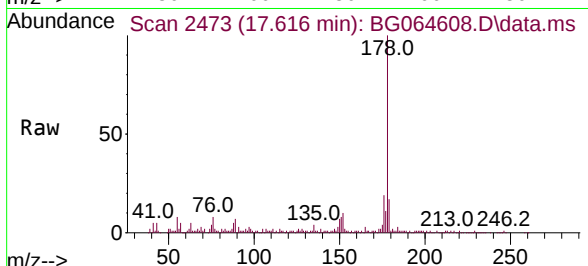
Instrument : BNA_G
 ClientSampleId : JB-1

Tgt Ion:178 Resp: 170620

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.7	22.1
179	16.9	12.2	18.4

Manual Integrations
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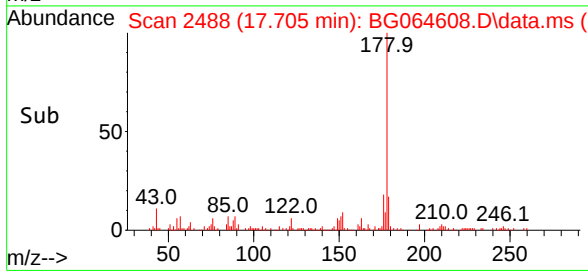
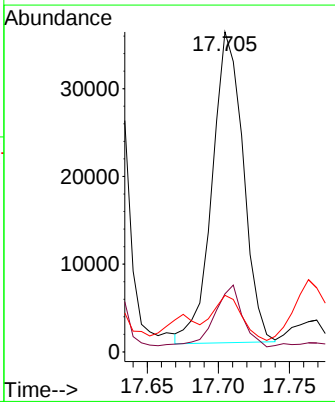
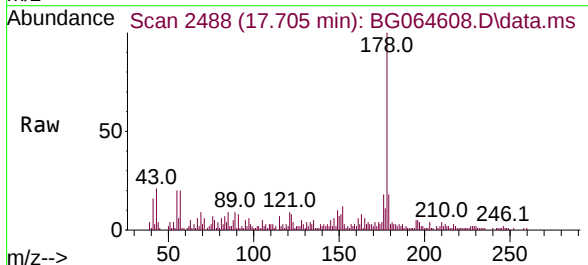
Reviewed By :Rahul Chavli 10/29/2025
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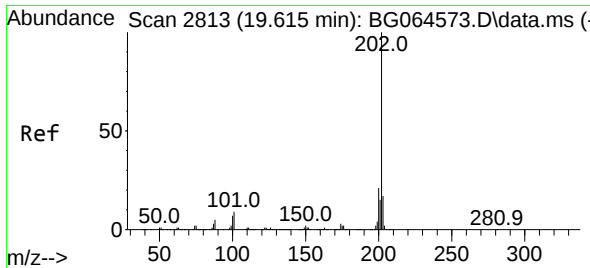


#72
 Anthracene
 Concen: 4.211 ng
 RT: 17.705 min Scan# 2488
 Delta R.T. -0.007 min
 Lab File: BG064608.D
 Acq: 28 Oct 2025 19:16

Tgt Ion:178 Resp: 53926

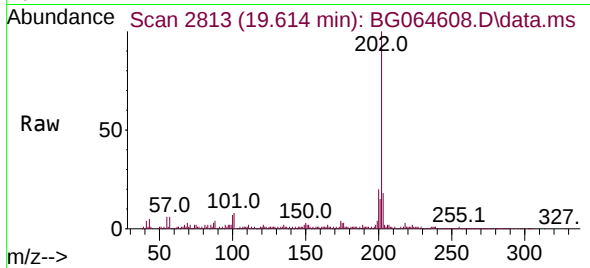
Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.4	21.6
179	17.7	12.4	18.6





#75
Fluoranthene
Concen: 17.418 ng
RT: 19.614 min Scan# 2813
Delta R.T. -0.001 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

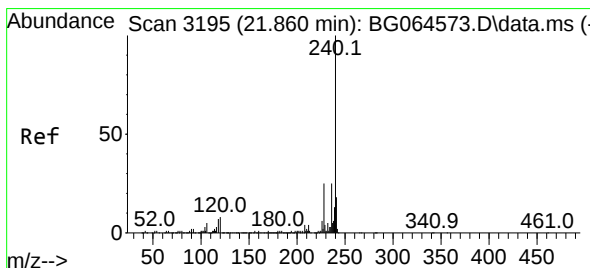
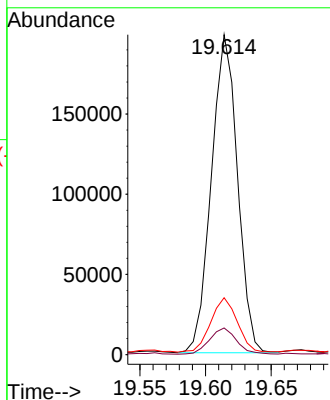
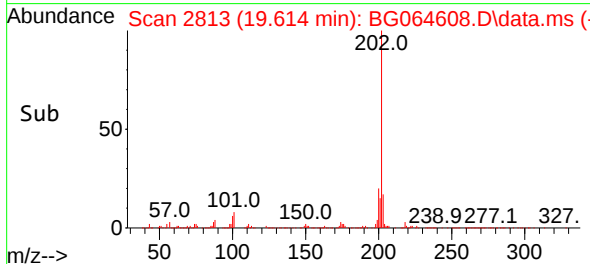
Instrument :
BNA_G
ClientSampleId :
JB-1



Tgt Ion:202 Resp: 274726
Ion Ratio Lower Upper
202 100
101 8.3 0.0 28.7
203 17.8 0.0 37.0

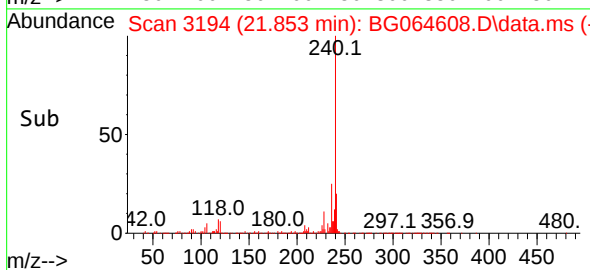
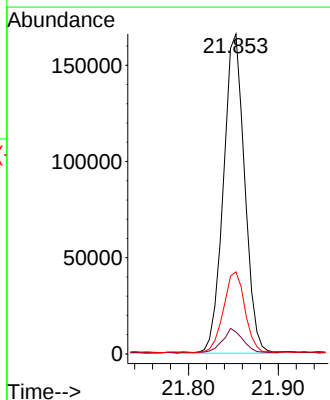
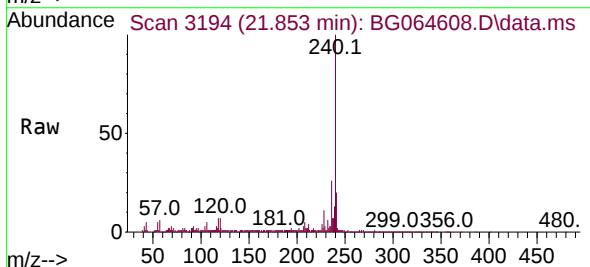
Manual Integrations
APPROVED

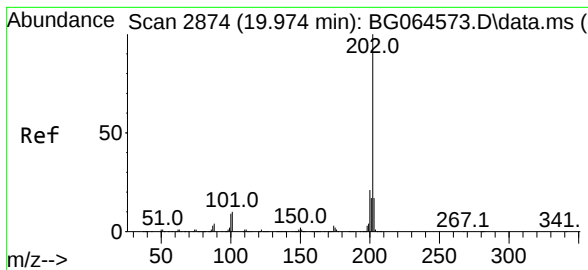
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.853 min Scan# 3194
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion:240 Resp: 273350
Ion Ratio Lower Upper
240 100
120 6.8 6.5 9.7
236 25.6 20.2 30.2





#78

Pyrene

Concen: 14.474 ng

RT: 19.973 min Scan# 2874

Delta R.T. -0.001 min

Lab File: BG064608.D

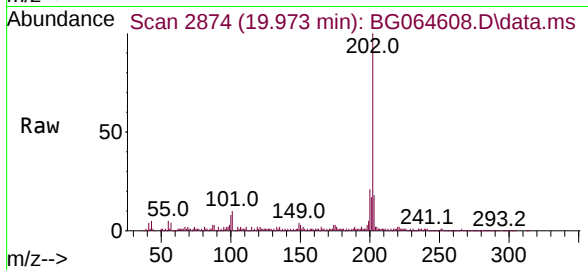
Acq: 28 Oct 2025 19:16

Instrument :

BNA_G

ClientSampleId :

JB-1



Tgt Ion:202 Resp: 258489

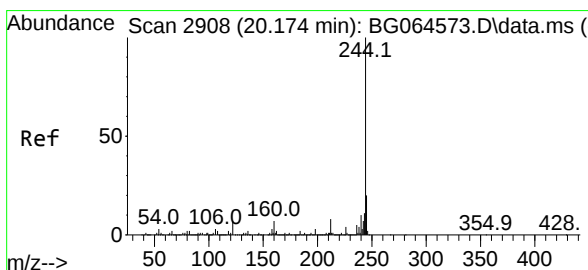
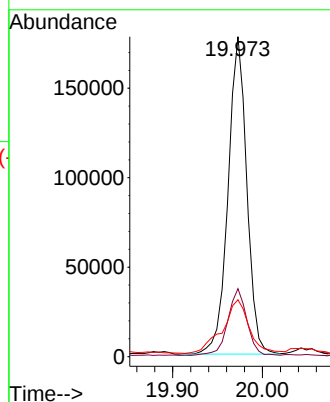
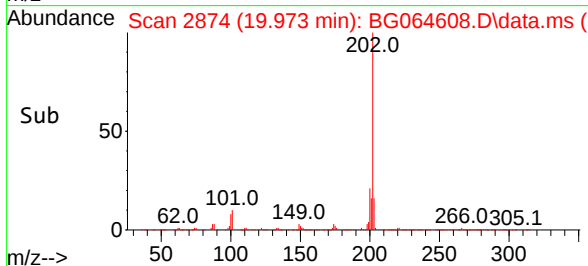
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.8	13.8	20.6

Manual Integrations

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Reviewed By :Rahul Chavli 10/29/2025

Supervised By :mohammad ahmed 11/05/2025



#79

Terphenyl-d14

Concen: 31.102 ng

RT: 20.166 min Scan# 2907

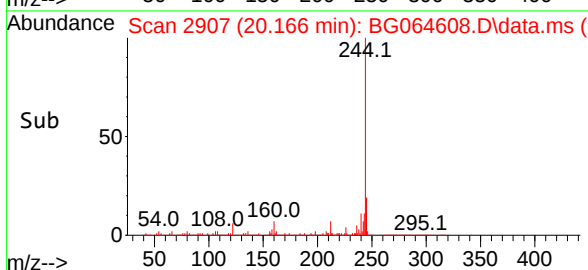
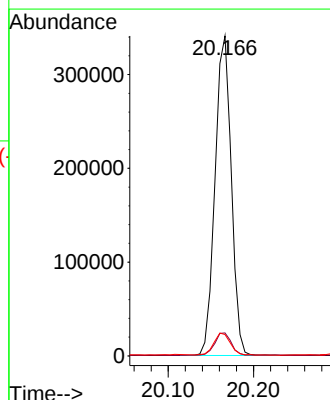
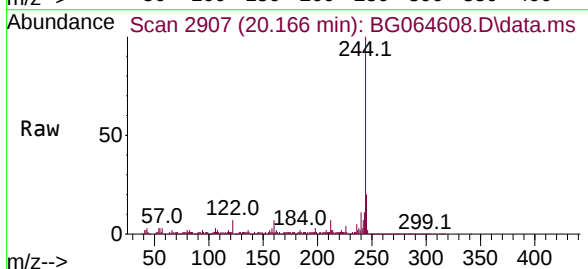
Delta R.T. -0.007 min

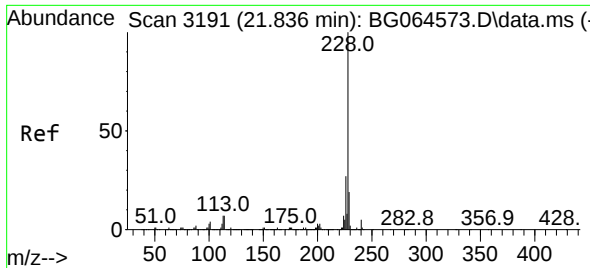
Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

Tgt Ion:244 Resp: 450496

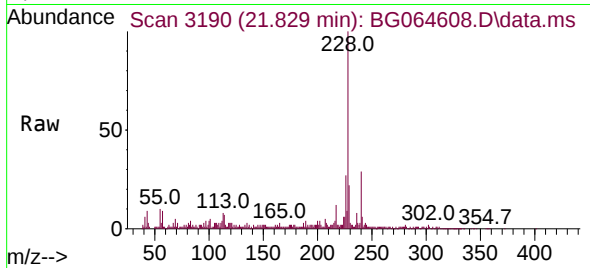
Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.1	9.1
122	6.7	5.6	8.4





#81
Benzo(a)anthracene
Concen: 8.306 ng
RT: 21.829 min Scan# 3191
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

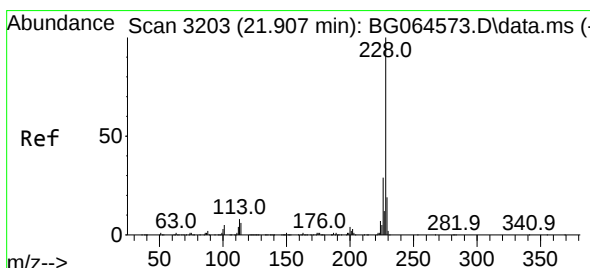
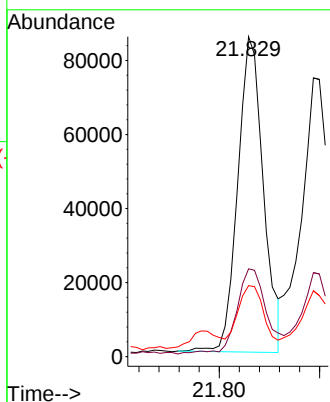
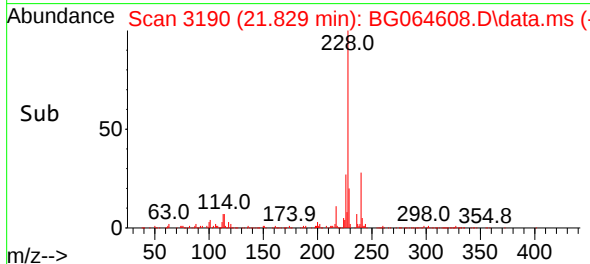
Instrument :
BNA_G
ClientSampleId :
JB-1



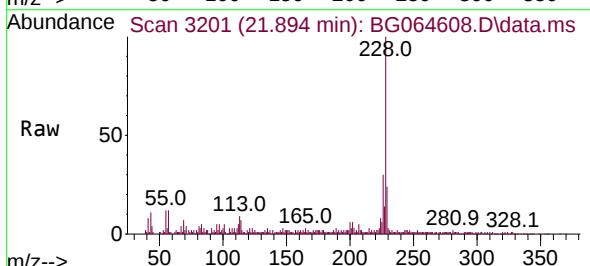
Tgt Ion:228 Resp: 150545
Ion Ratio Lower Upper
228 100
226 27.4 21.9 32.9
229 22.2 15.6 23.4

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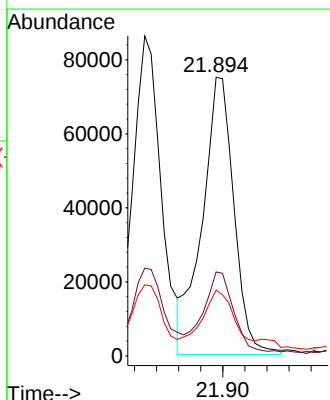
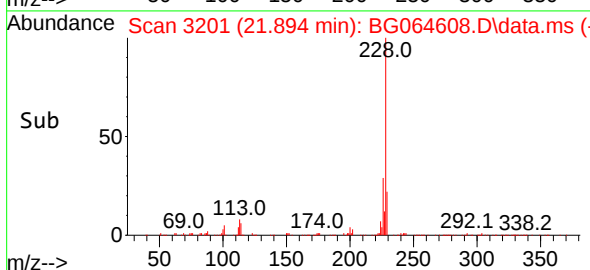
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025

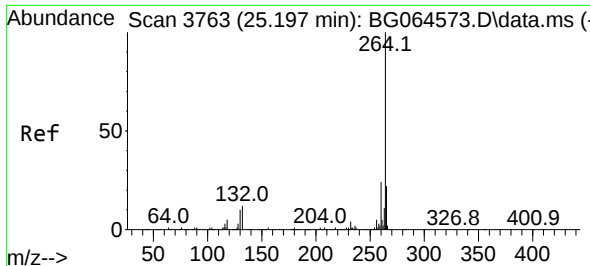


#83
Chrysene
Concen: 8.710 ng m
RT: 21.894 min Scan# 3201
Delta R.T. -0.013 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16



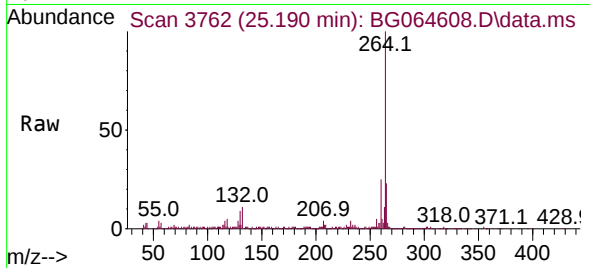
Tgt Ion:228 Resp: 150204
Ion Ratio Lower Upper
228 100
226 30.1 23.3 34.9
229 23.6 15.2 22.8#





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.190 min Scan# 31
Delta R.T. -0.007 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

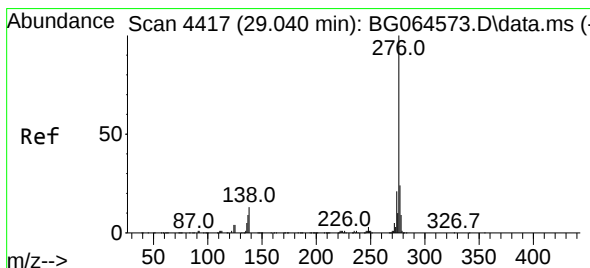
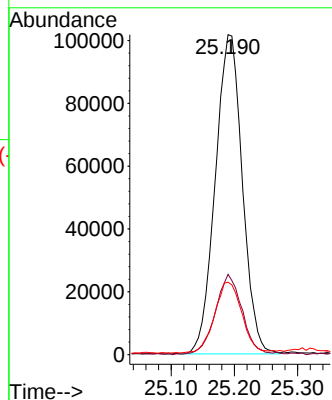
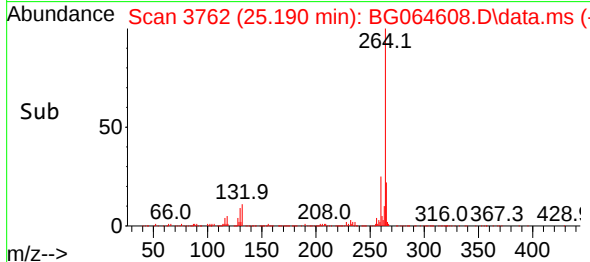
Instrument :
BNA_G
ClientSampleId :
JB-1



Tgt Ion:264 Resp: 302106
Ion Ratio Lower Upper
264 100
260 25.1 19.0 28.4
265 22.6 17.6 26.4

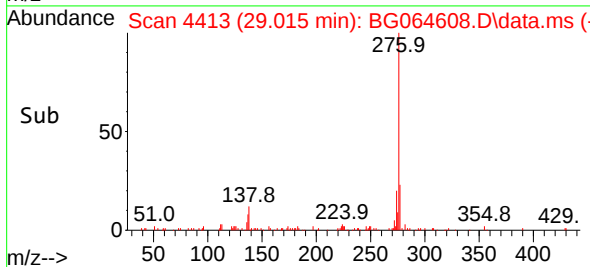
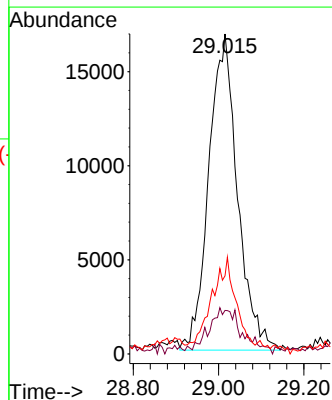
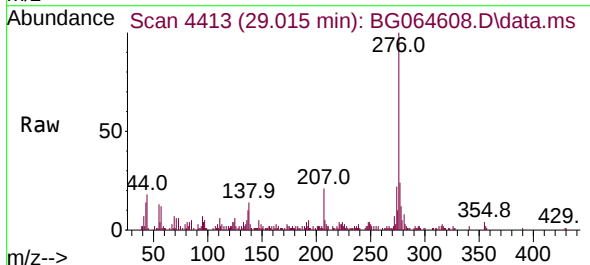
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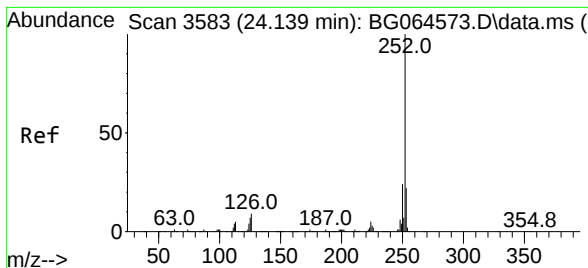
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 3.526 ng
RT: 29.015 min Scan# 4413
Delta R.T. -0.025 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

Tgt Ion:276 Resp: 78363
Ion Ratio Lower Upper
276 100
138 6.6 10.8 16.2#
277 22.6 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 8.701 ng

RT: 24.127 min Scan# 3581

Delta R.T. -0.013 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

Instrument :

BNA_G

ClientSampleId :

JB-1

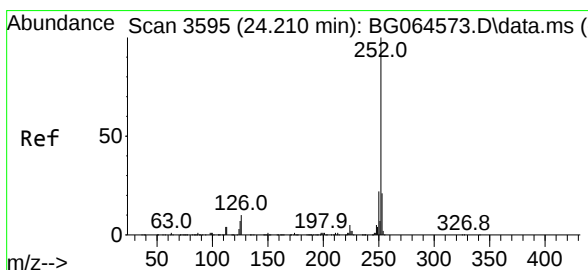
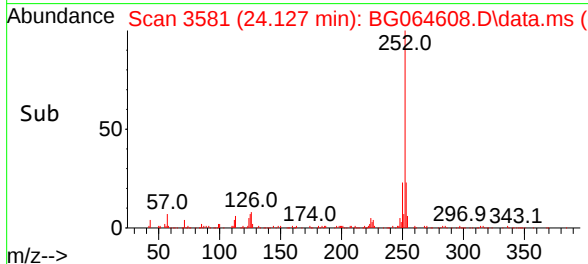
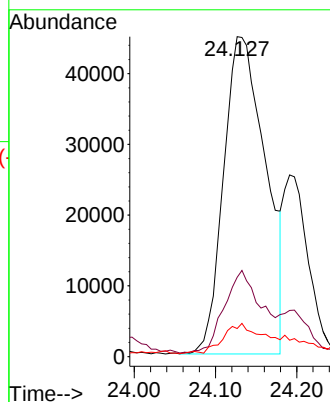
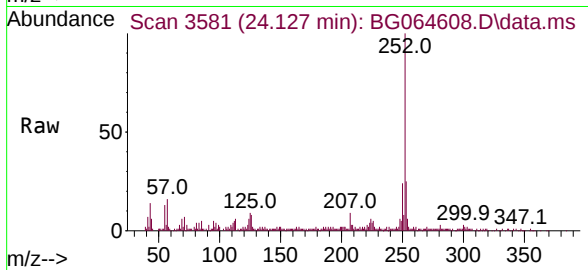
Tgt Ion:252 Resp: 161184
 Ion Ratio Lower Upper
 252 100
 253 24.8 17.8 26.8
 125 8.8 5.6 8.4

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Supervised By :mohammad ahmed 11/05/2025



#89

Benzo(k)fluoranthene

Concen: 2.773 ng

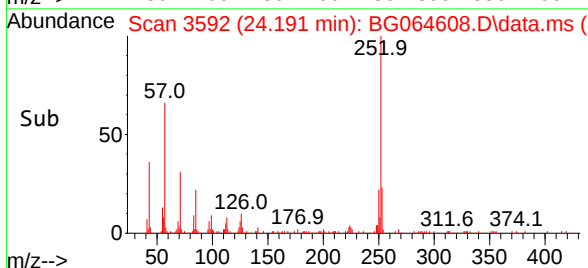
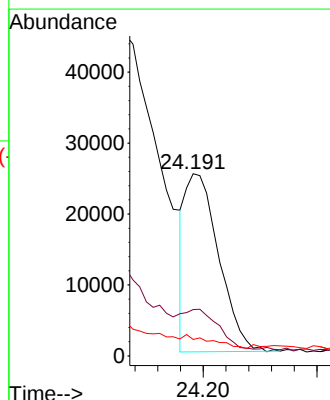
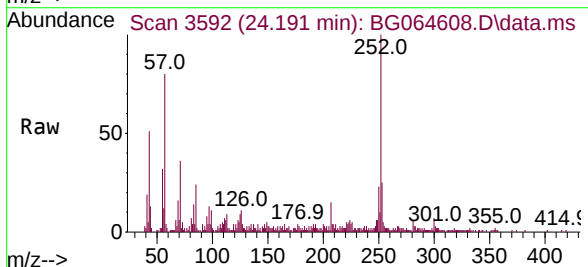
RT: 24.191 min Scan# 3592

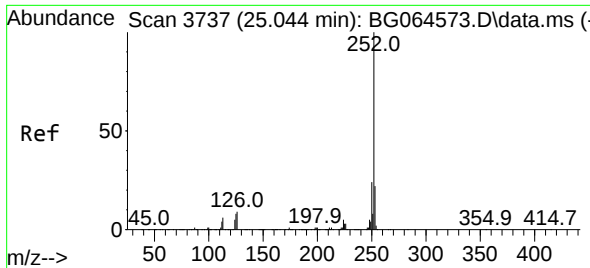
Delta R.T. -0.019 min

Lab File: BG064608.D

Acq: 28 Oct 2025 19:16

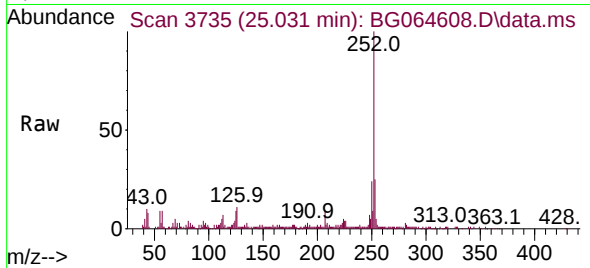
Tgt Ion:252 Resp: 51413
 Ion Ratio Lower Upper
 252 100
 253 25.4 16.8 25.2#
 125 9.0 5.4 8.0#





#90
Benzo(a)pyrene
Concen: 7.038 ng
RT: 25.031 min Scan# 31
Delta R.T. -0.013 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16

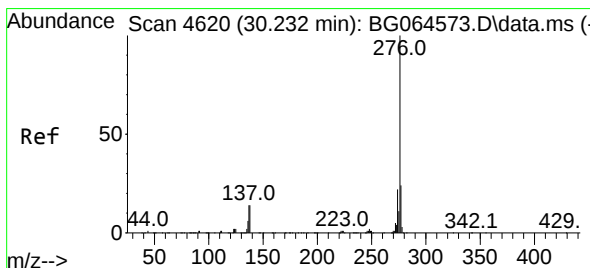
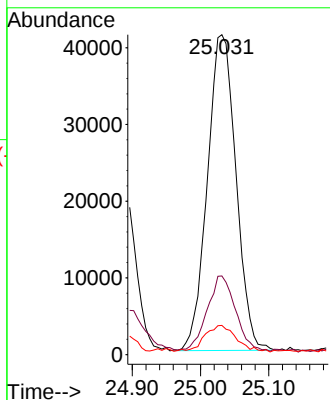
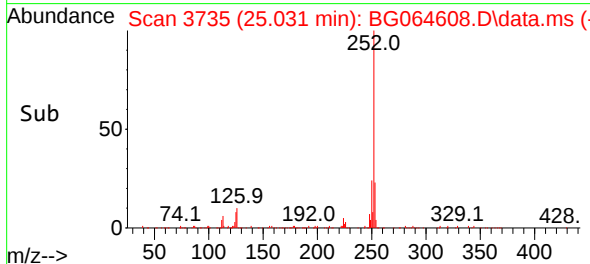
Instrument :
BNA_G
ClientSampleId :
JB-1



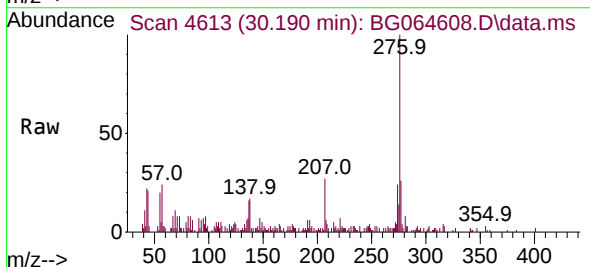
Tgt Ion:252 Resp: 11984
Ion Ratio Lower Upper
252 100
253 24.6 17.6 26.4
125 9.1 6.1 9.1

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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: 4.373 ng
RT: 30.190 min Scan# 4613
Delta R.T. -0.042 min
Lab File: BG064608.D
Acq: 28 Oct 2025 19:16



Tgt Ion:276 Resp: 75433
Ion Ratio Lower Upper
276 100
277 26.2 19.1 28.7
138 16.5 11.3 16.9

