

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG110725\
 Data File : BG064725.D
 Acq On : 7 Nov 2025 20:59
 Operator : RC/JU
 Sample : Q3564-01 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-03-11062025

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 11/10/2025
 Supervised By :Jagrut Upadhyay 11/10/2025

Quant Time: Nov 08 01:00:18 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	8.201	152	51586	20.000	ng	-0.02
21) Naphthalene-d8	11.027	136	199494	20.000	ng	#-0.02
39) Acenaphthene-d10	14.823	164	156200	20.000	ng	-0.02
64) Phenanthrene-d10	17.561	188	345771	20.000	ng	#-0.02
76) Chrysene-d12	21.838	240	411272	20.000	ng	#-0.02
86) Perylene-d12	25.175	264	461868	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.733	112	87335	28.417	ng	-0.02
7) Phenol-d6	7.337	99	119566	28.351	ng	-0.02
23) Nitrobenzene-d5	9.364	82	76346	22.986	ng	-0.02
42) 2,4,6-Tribromophenol	16.297	330	86437	38.341	ng	-0.02
45) 2-Fluorobiphenyl	13.454	172	228382	22.162	ng	-0.02
79) Terphenyl-d14	20.146	244	465901	21.378	ng	-0.03
Target Compounds						Qvalue
52) Acenaphthene	14.887	154	24106	2.669	ng	97
58) Fluorene	15.863	166	45118	3.956	ng	94
71) Phenanthrene	17.602	178	665570	35.199	ng	99
72) Anthracene	17.696	178	260238	13.530	ng	99
75) Fluoranthene	19.605	202	2395774	101.139	ng	94
78) Pyrene	19.964	202	2121508	78.953	ng	97
81) Benzo(a)anthracene	21.820	228	1518754	55.694	ng	97
83) Chrysene	21.885	228	1242937	47.902	ng	95
87) Indeno(1,2,3-cd)pyrene	29.000	276	693867	20.422	ng	# 94
88) Benzo(b)fluoranthene	24.118	252	1689977	59.671	ng	# 98
89) Benzo(k)fluoranthene	24.182	252	571536m	20.166	ng	
90) Benzo(a)pyrene	25.022	252	1272168m	48.866	ng	
91) Dibenzo(a,h)anthracene	29.030	278	168535m	6.106	ng	
92) Benzo(g,h,i)perylene	30.181	276	564592	21.411	ng	# 96

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

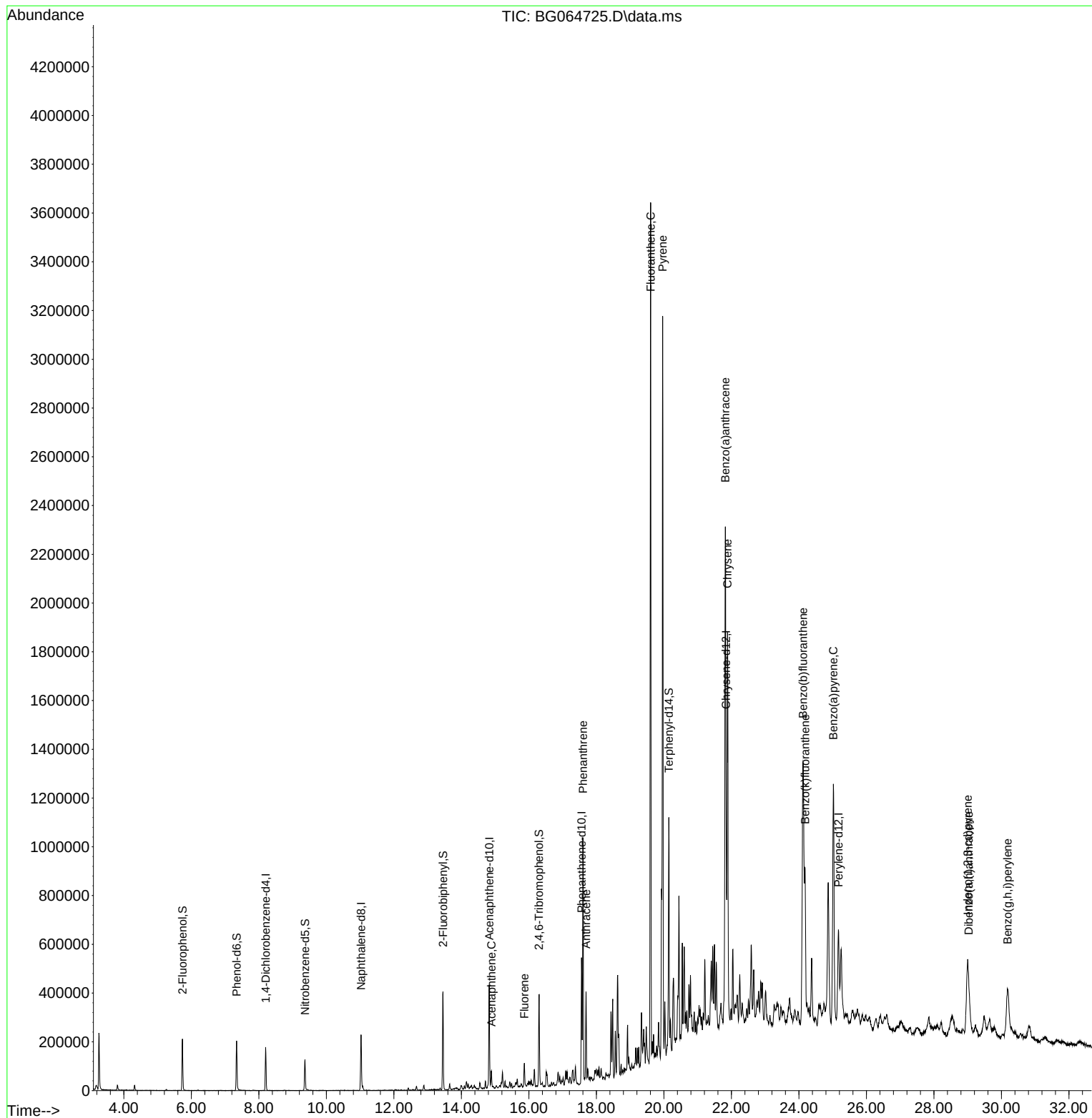
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG110725\
Data File : BG064725.D
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Operator : RC/JU
Sample : Q3564-01 2X
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ALS Vial : 14 Sample Multiplier: 1

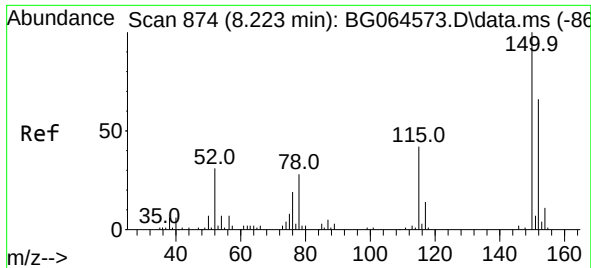
Instrument :
BNA_G
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OR-03-11062025

Quant Time: Nov 08 01:00:18 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

Manual Integrations
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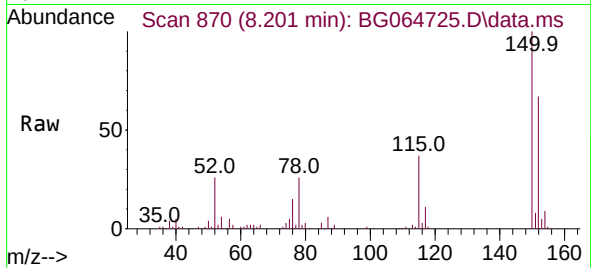
Reviewed By :Rahul Chavli 11/10/2025
Supervised By :Jagrut Upadhyay 11/10/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.201 min Scan# 81
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

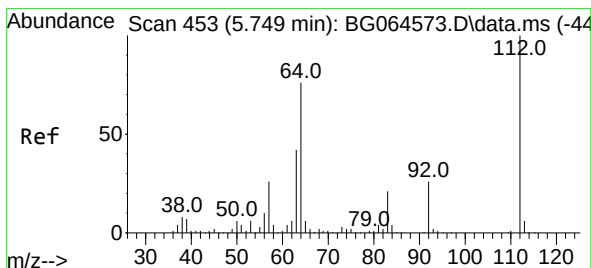
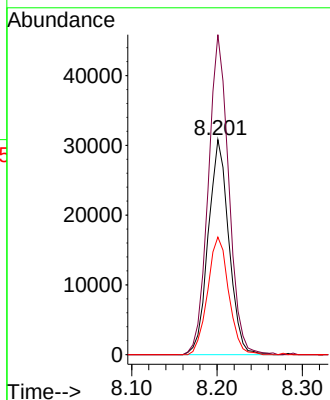
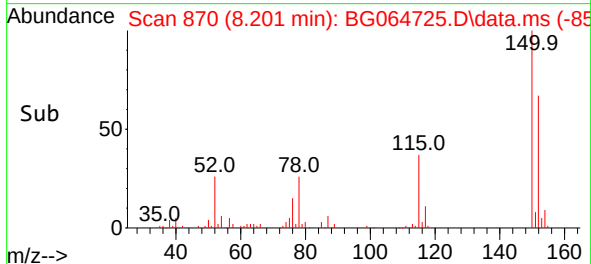
Instrument :
BNA_G
ClientSampleId :
OR-03-11062025



Tgt Ion:152 Resp: 51586
Ion Ratio Lower Upper
152 100
150 148.8 122.2 183.4
115 54.6 50.8 76.2

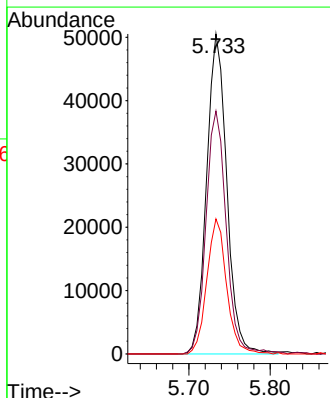
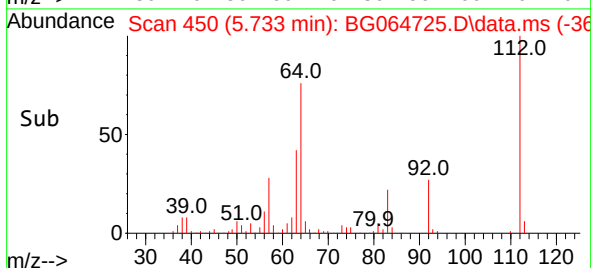
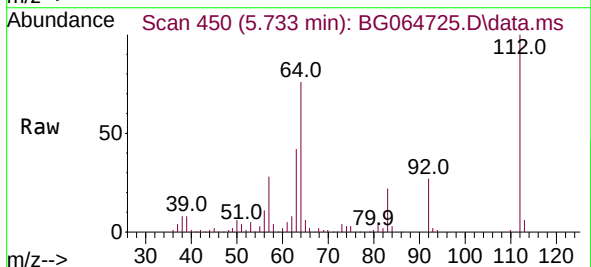
Manual Integrations
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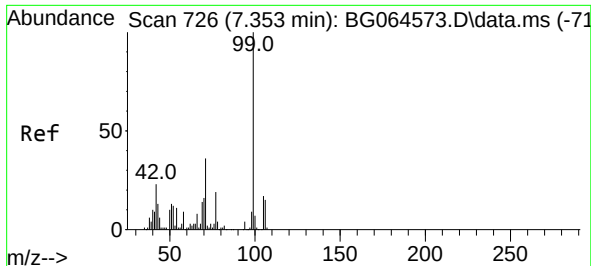
Reviewed By :Rahul Chavli 11/10/2025
Supervised By :Jagrut Upadhyay 11/10/2025



#5
2-Fluorophenol
Concen: 28.417 ng
RT: 5.733 min Scan# 450
Delta R.T. -0.016 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

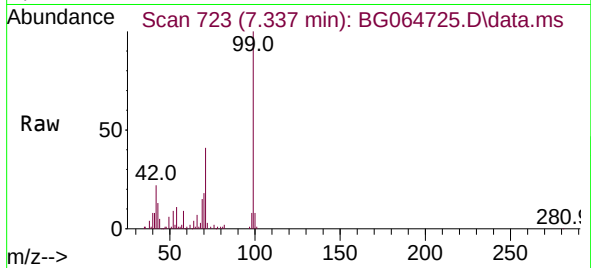
Tgt Ion:112 Resp: 87335
Ion Ratio Lower Upper
112 100
64 75.9 60.7 91.1
63 42.2 33.4 50.0





#7
Phenol-d6
Concen: 28.351 ng
RT: 7.337 min Scan# 71
Delta R.T. -0.016 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

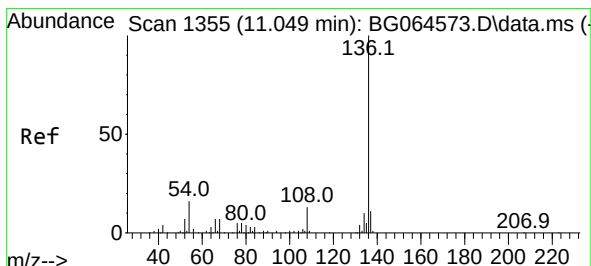
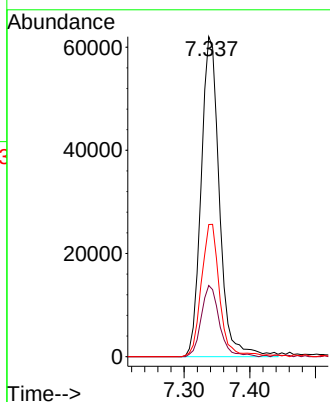
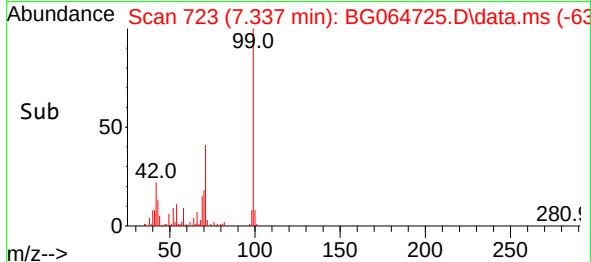
Instrument :
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OR-03-11062025



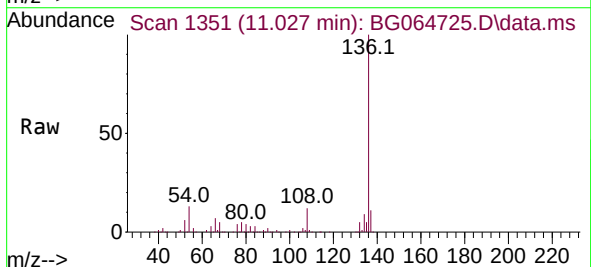
Tgt Ion: 99 Resp: 119566
Ion Ratio Lower Upper
99 100
42 22.2 18.3 27.5
71 41.3 28.6 43.0

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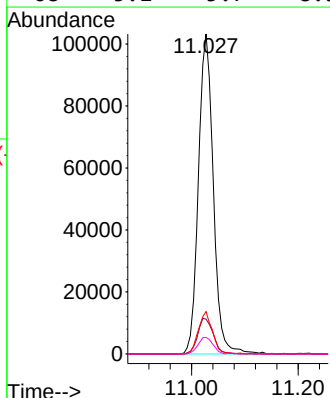
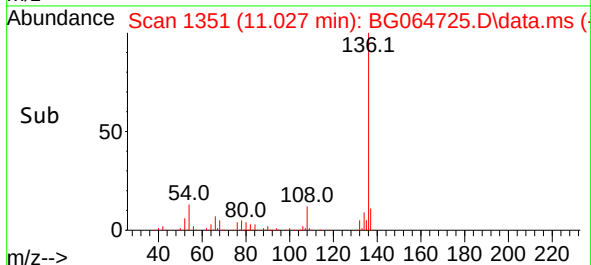
Reviewed By :Rahul Chavli 11/10/2025
Supervised By :Jagrut Upadhyay 11/10/2025

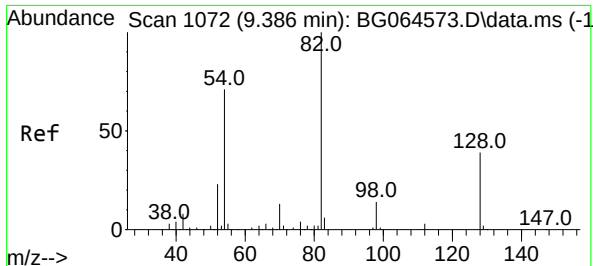


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.027 min Scan# 1351
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59



Tgt Ion:136 Resp: 199494
Ion Ratio Lower Upper
136 100
137 10.9 9.2 13.8
54 13.2 12.6 19.0
68 5.1 5.7 8.5#





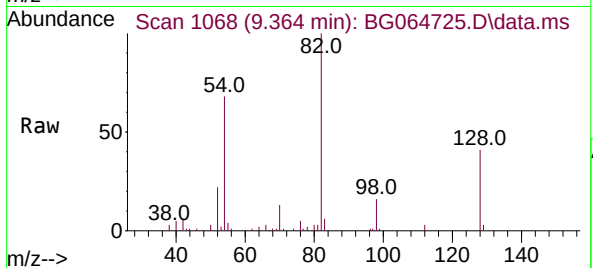
#23
Nitrobenzene-d5
Concen: 22.986 ng
RT: 9.364 min Scan# 1068
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

Instrument :

BNA_G

ClientSampleId :

OR-03-11062025



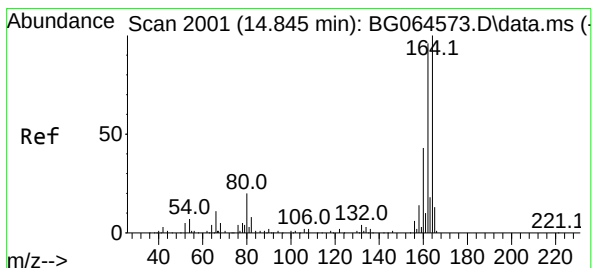
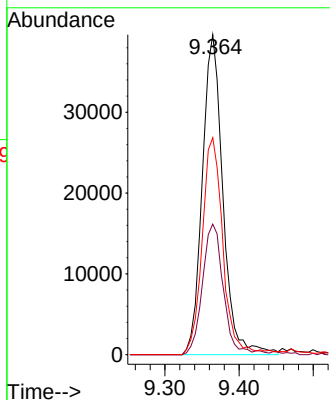
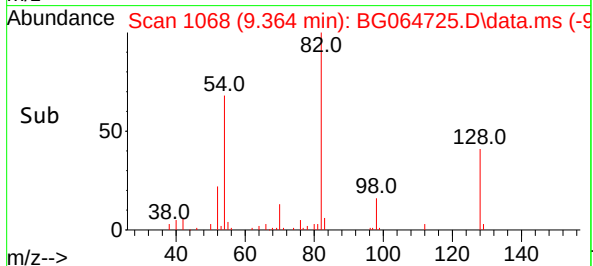
Tgt Ion: 82 Resp: 76346
Ion Ratio Lower Upper
82 100
128 40.8 31.3 46.9
54 67.8 56.6 84.8

Manual Integrations

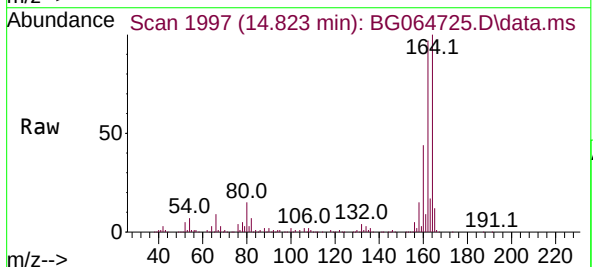
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Reviewed By :Rahul Chavli 11/10/2025

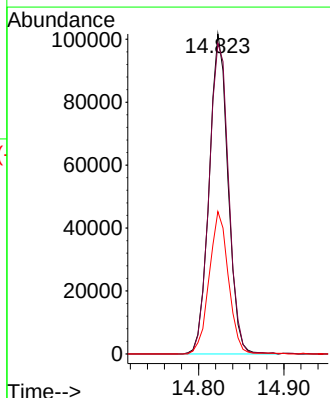
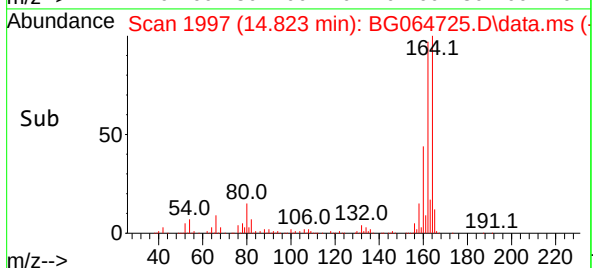
Supervised By :Jagrut Upadhyay 11/10/2025

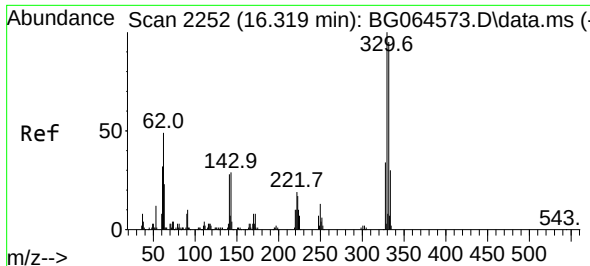


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.823 min Scan# 1997
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59



Tgt Ion:164 Resp: 156200
Ion Ratio Lower Upper
164 100
162 97.1 77.0 115.6
160 44.5 34.4 51.6





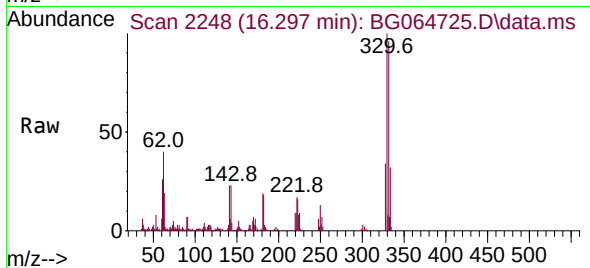
#42
2,4,6-Tribromophenol
Concen: 38.341 ng
RT: 16.297 min Scan# 21
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

Instrument :

BNA_G

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OR-03-11062025



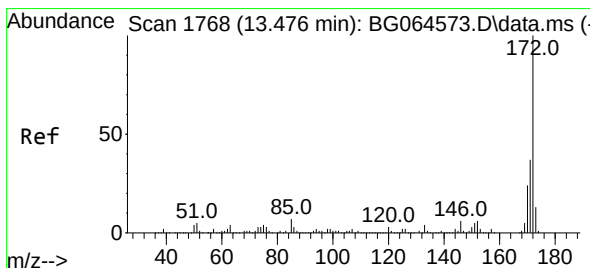
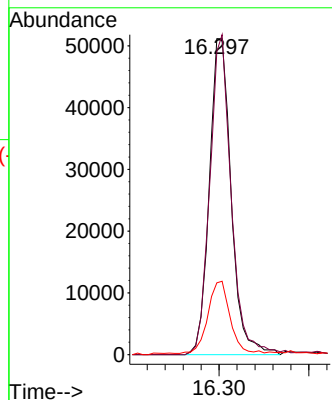
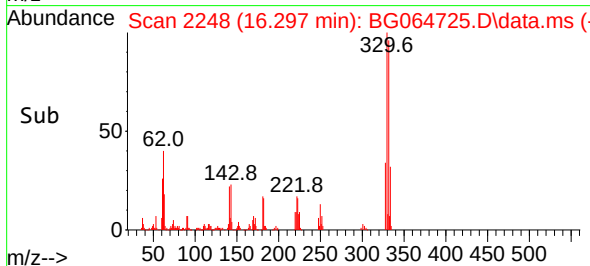
Tgt Ion:330 Resp: 8643
Ion Ratio Lower Upper
330 100
332 99.5 78.0 117.0
141 23.4 21.8 32.6

Manual Integrations

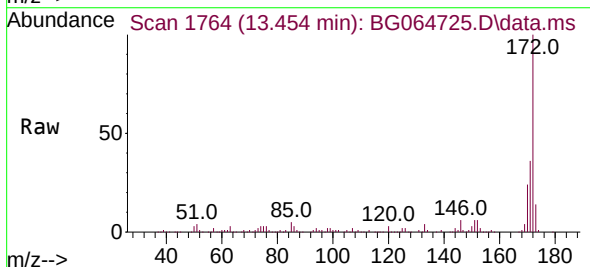
APPROVED

Reviewed By :Rahul Chavli 11/10/2025

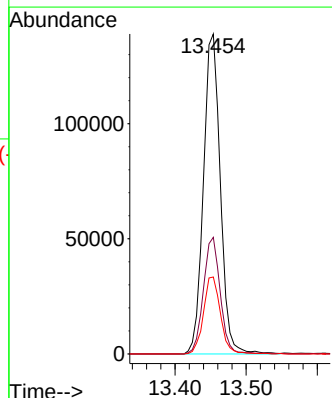
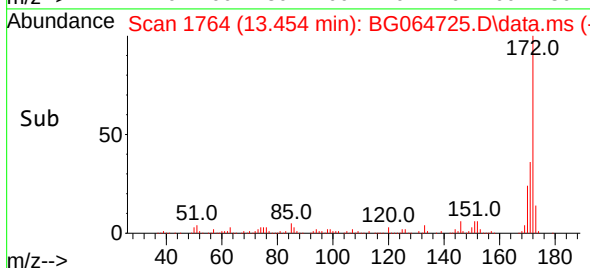
Supervised By :Jagrut Upadhyay 11/10/2025

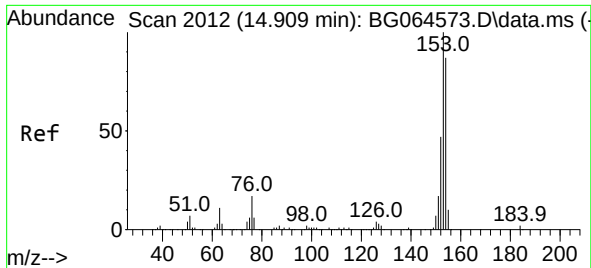


#45
2-Fluorobiphenyl
Concen: 22.162 ng
RT: 13.454 min Scan# 1764
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59



Tgt Ion:172 Resp: 228382
Ion Ratio Lower Upper
172 100
171 36.4 29.4 44.0
170 24.0 19.1 28.7





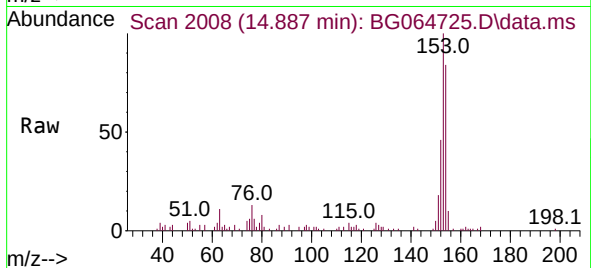
#52
Acenaphthene
Concen: 2.669 ng
RT: 14.887 min Scan# 2012
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

Instrument :

BNA_G

ClientSampleId :

OR-03-11062025



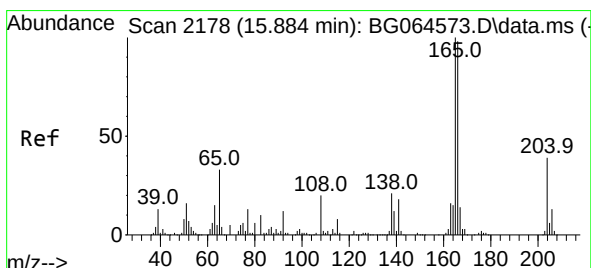
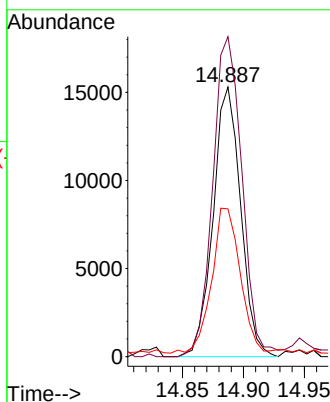
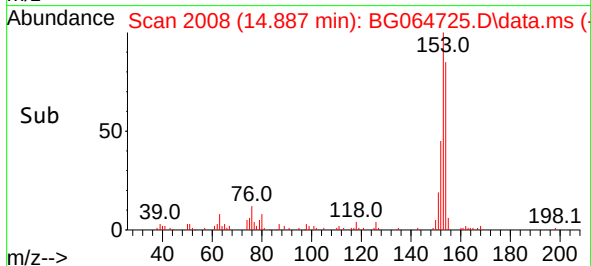
Tgt Ion:154 Resp: 24106
Ion Ratio Lower Upper
154 100
153 118.7 92.2 138.4
152 54.8 43.2 64.8

Manual Integrations

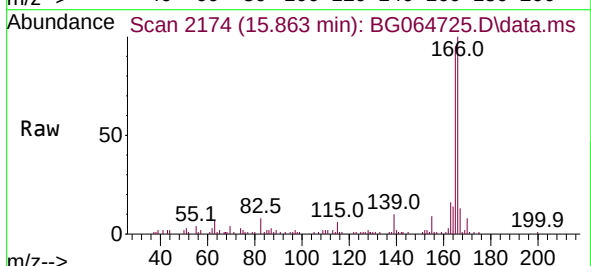
APPROVED

Reviewed By :Rahul Chavli 11/10/2025

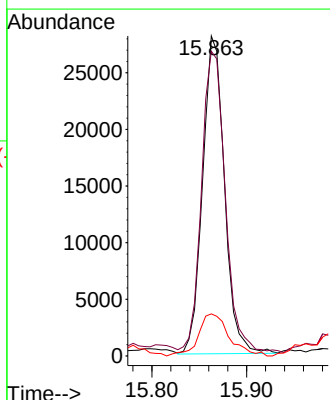
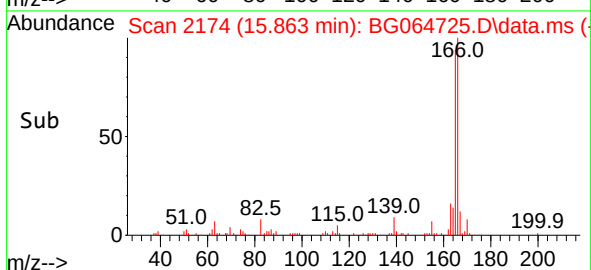
Supervised By :Jagrut Upadhyay 11/10/2025

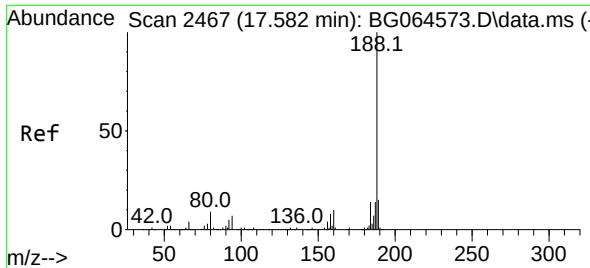


#58
Fluorene
Concen: 3.956 ng
RT: 15.863 min Scan# 2174
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59



Tgt Ion:166 Resp: 45118
Ion Ratio Lower Upper
166 100
165 95.2 81.5 122.3
167 13.1 11.4 17.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.561 min Scan# 2463
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

Instrument :

BNA_G

ClientSampleId :

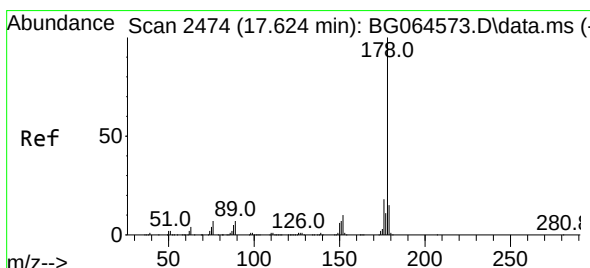
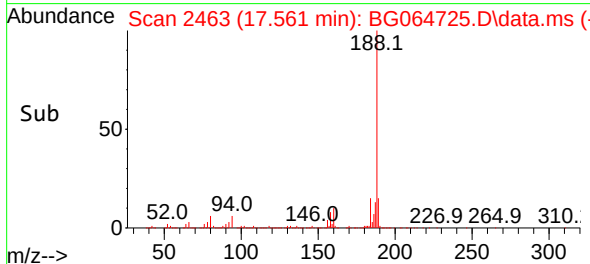
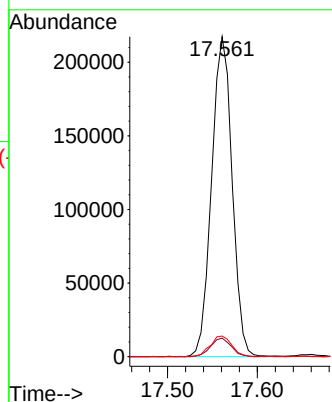
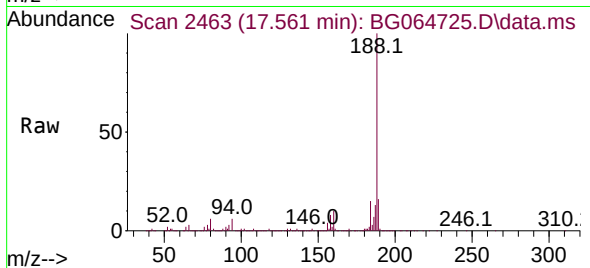
OR-03-11062025

Tgt Ion:188 Resp: 34577
Ion Ratio Lower Upper
188 100
94 5.8 5.7 8.5
80 6.4 6.8 10.2

Manual Integrations

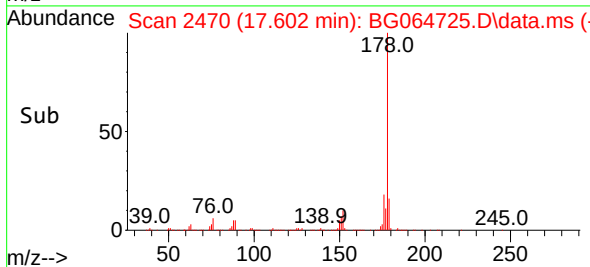
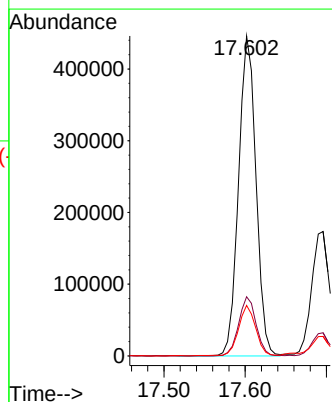
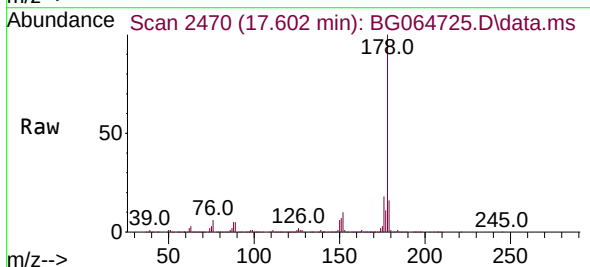
APPROVED

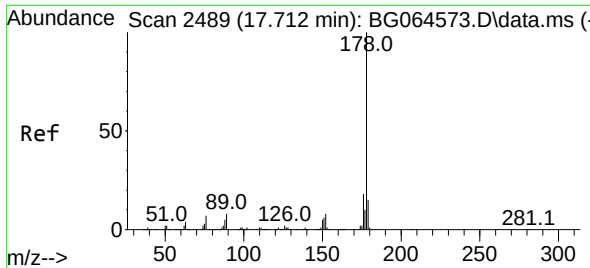
Reviewed By :Rahul Chavli 11/10/2025
Supervised By :Jagrut Upadhyay 11/10/2025



#71
Phenanthrene
Concen: 35.199 ng
RT: 17.602 min Scan# 2470
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

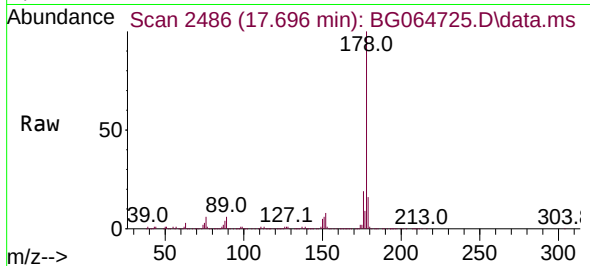
Tgt Ion:178 Resp: 665570
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.8 12.2 18.4





#72
 Anthracene
 Concen: 13.530 ng
 RT: 17.696 min Scan# 2489
 Delta R.T. -0.016 min
 Lab File: BG064725.D
 Acq: 7 Nov 2025 20:59

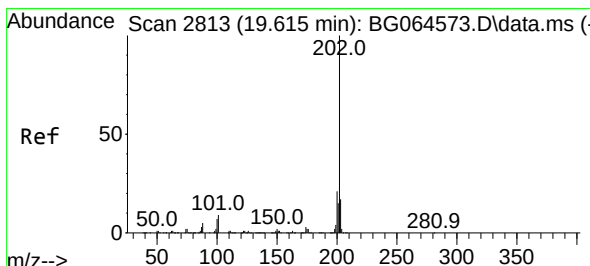
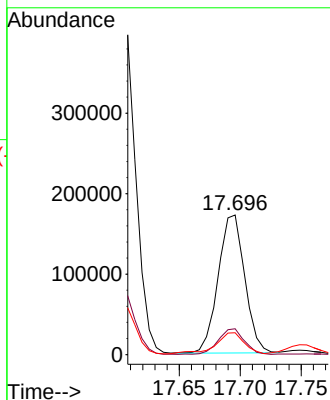
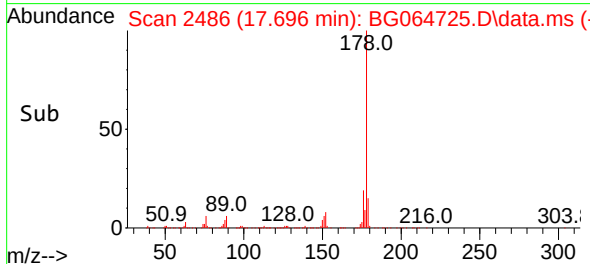
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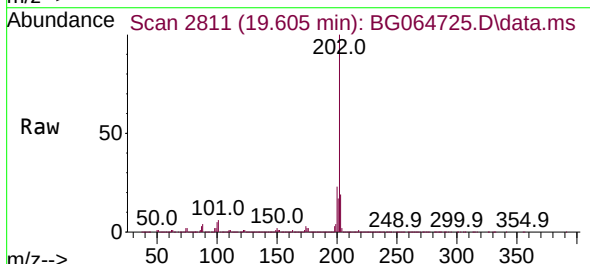
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 Ion Ratio Lower Upper
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 176 18.5 14.4 21.6
 179 15.6 12.4 18.6

Manual Integrations
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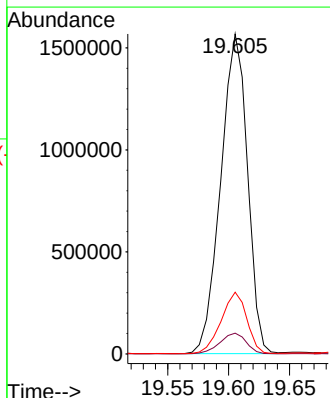
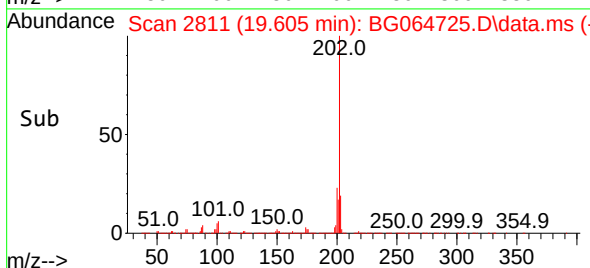
Reviewed By :Rahul Chavli 11/10/2025
 Supervised By :Jagrut Upadhyay 11/10/2025

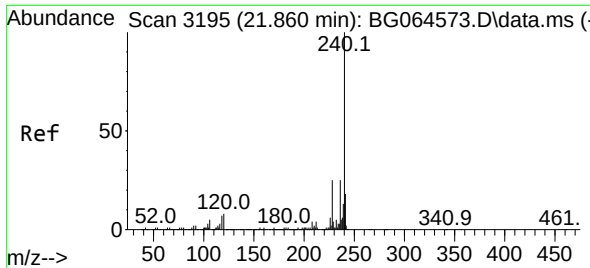


#75
 Fluoranthene
 Concen: 101.139 ng
 RT: 19.605 min Scan# 2811
 Delta R.T. -0.010 min
 Lab File: BG064725.D
 Acq: 7 Nov 2025 20:59



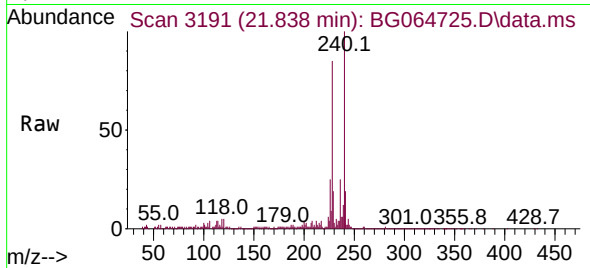
Tgt Ion:202 Resp: 2395774
 Ion Ratio Lower Upper
 202 100
 101 6.5 0.0 28.7
 203 19.3 0.0 37.0





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.838 min Scan# 3191
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

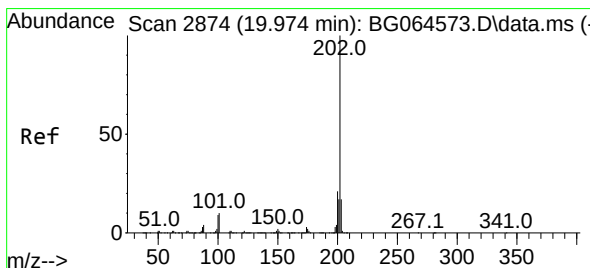
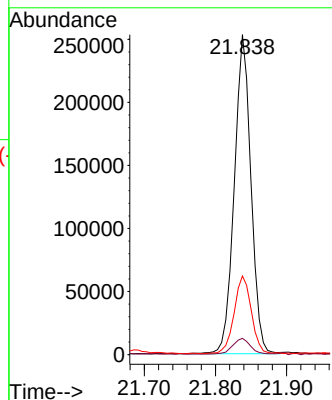
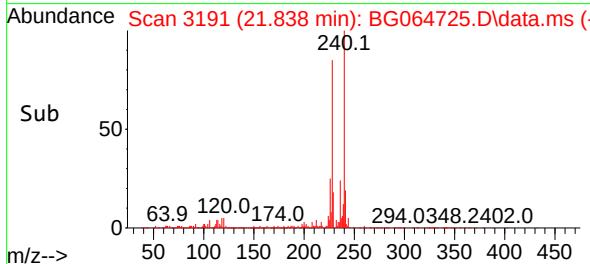
Instrument :
BNA_G
ClientSampleId :
OR-03-11062025



Tgt Ion:240 Resp: 411272
Ion Ratio Lower Upper
240 100
120 5.1 6.5 9.7
236 24.6 20.2 30.2

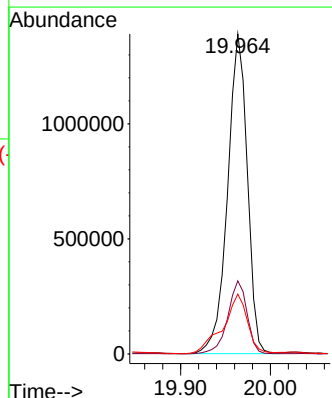
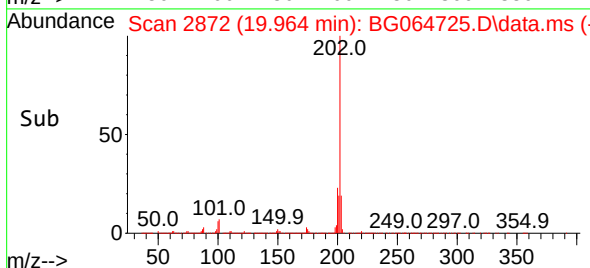
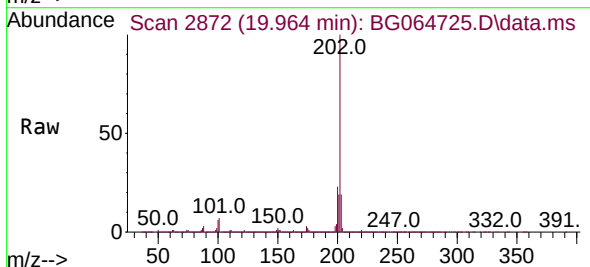
Manual Integrations
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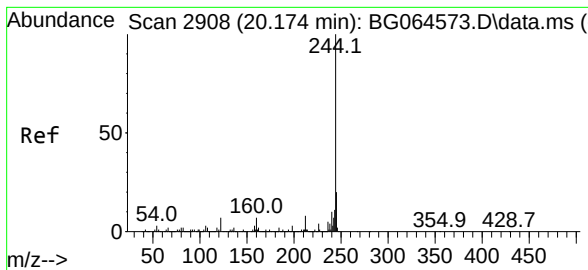
Reviewed By :Rahul Chavli 11/10/2025
Supervised By :Jagrut Upadhyay 11/10/2025



#78
Pyrene
Concen: 78.953 ng
RT: 19.964 min Scan# 2872
Delta R.T. -0.010 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

Tgt Ion:202 Resp: 2121508
Ion Ratio Lower Upper
202 100
200 22.8 17.0 25.4
203 18.7 13.8 20.6





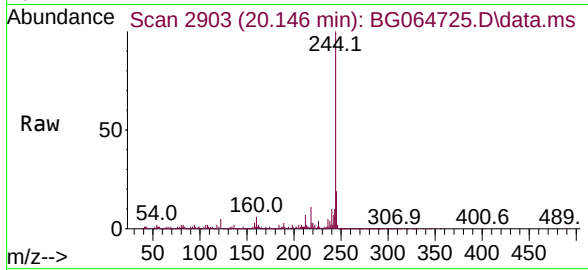
#79
 Terphenyl-d14
 Concen: 21.378 ng
 RT: 20.146 min Scan# 2908
 Delta R.T. -0.028 min
 Lab File: BG064725.D
 Acq: 7 Nov 2025 20:59

Instrument :

BNA_G

ClientSampleId :

OR-03-11062025



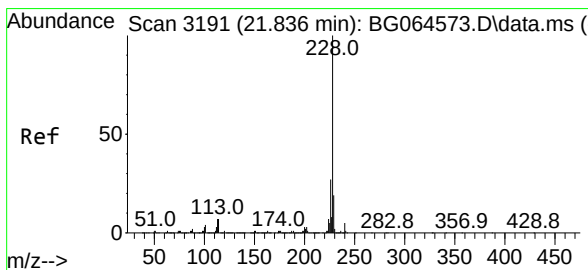
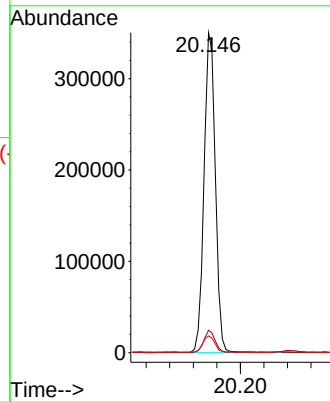
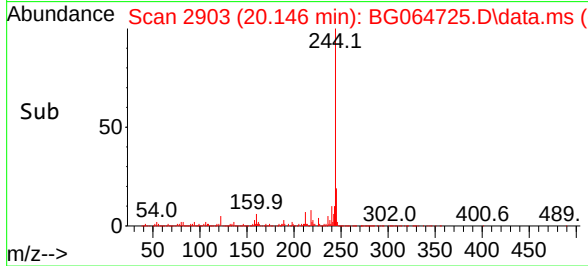
Tgt Ion:244 Resp: 465901
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.1 9.1
 122 5.2 5.6 8.4

Manual Integrations

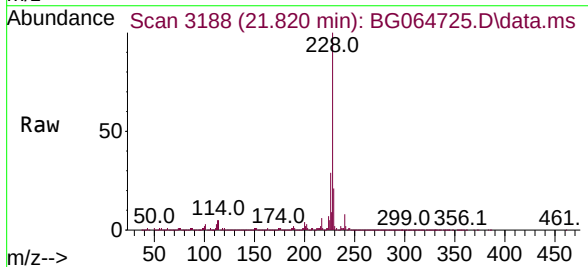
APPROVED

Reviewed By :Rahul Chavli 11/10/2025

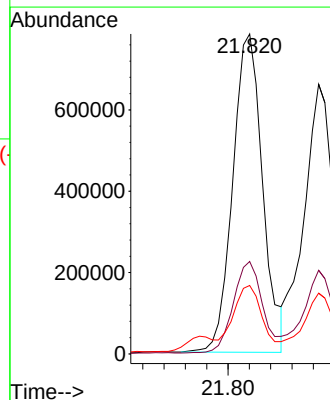
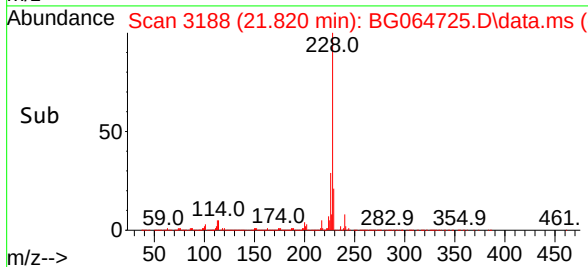
Supervised By :Jagrut Upadhyay 11/10/2025

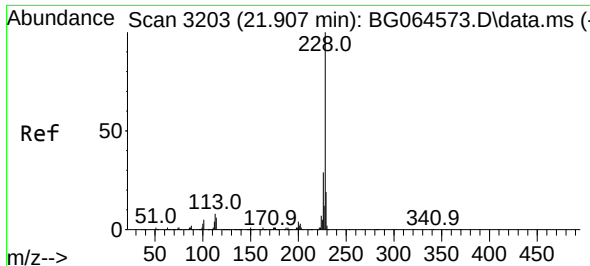


#81
 Benzo(a)anthracene
 Concen: 55.694 ng
 RT: 21.820 min Scan# 3188
 Delta R.T. -0.016 min
 Lab File: BG064725.D
 Acq: 7 Nov 2025 20:59



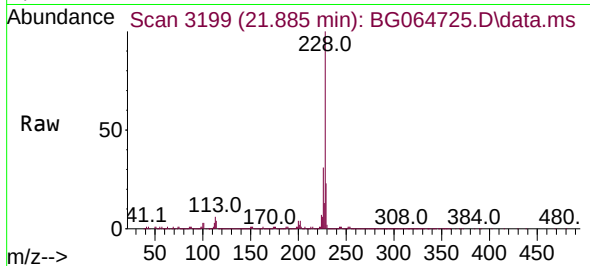
Tgt Ion:228 Resp: 1518754
 Ion Ratio Lower Upper
 228 100
 226 28.9 21.9 32.9
 229 21.4 15.6 23.4





#83
Chrysene
Concen: 47.902 ng
RT: 21.885 min Scan# 31
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

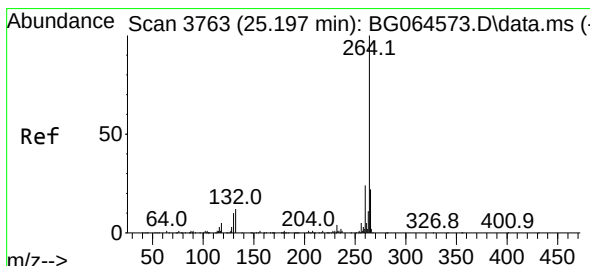
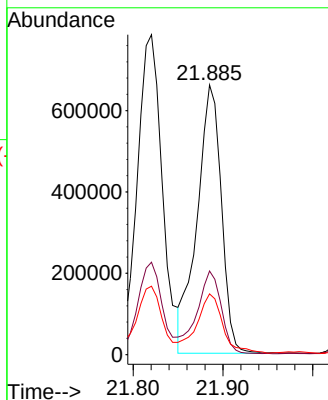
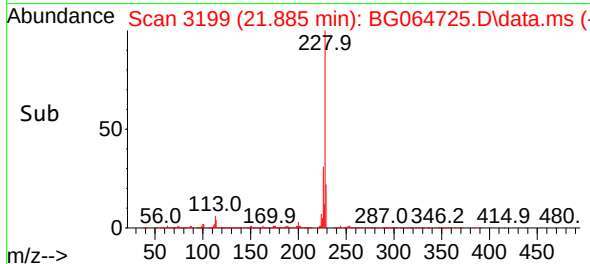
Instrument :
BNA_G
ClientSampleId :
OR-03-11062025



Tgt Ion:228 Resp: 1242937
Ion Ratio Lower Upper
228 100
226 31.0 23.3 34.9
229 22.6 15.2 22.8

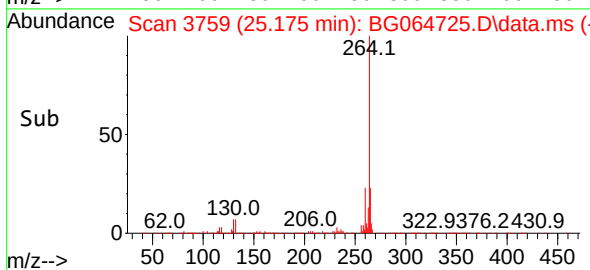
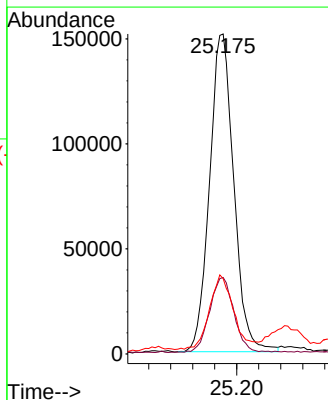
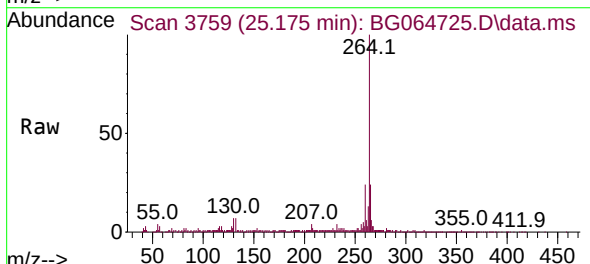
Manual Integrations
APPROVED

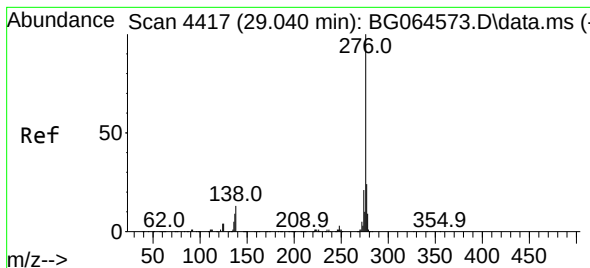
Reviewed By :Rahul Chavli 11/10/2025
Supervised By :Jagrut Upadhyay 11/10/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.175 min Scan# 3759
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

Tgt Ion:264 Resp: 461868
Ion Ratio Lower Upper
264 100
260 23.9 19.0 28.4
265 23.5 17.6 26.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 20.422 ng

RT: 29.000 min Scan# 4417

Delta R.T. -0.039 min

Lab File: BG064725.D

Acq: 7 Nov 2025 20:59

Instrument :

BNA_G

ClientSampleId :

OR-03-11062025

Tgt Ion:276 Resp: 693862

Ion Ratio Lower Upper

276 100

138 10.1 10.8 16.2

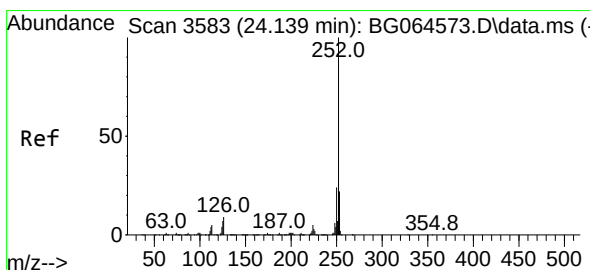
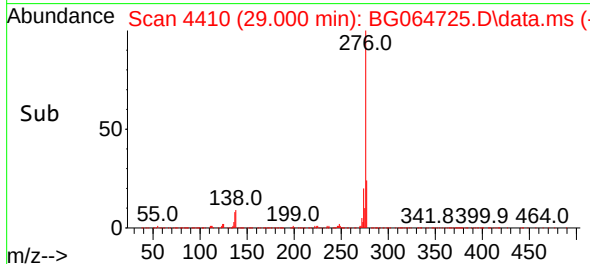
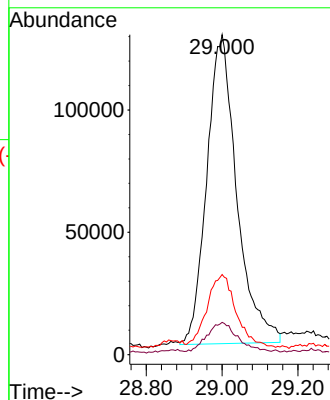
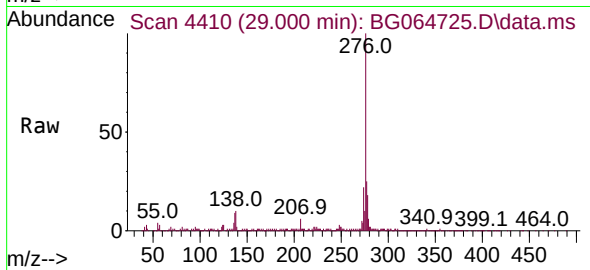
277 22.8 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 11/10/2025

Supervised By :Jagrut Upadhyay 11/10/2025



#88

Benzo(b)fluoranthene

Concen: 59.671 ng

RT: 24.118 min Scan# 3579

Delta R.T. -0.022 min

Lab File: BG064725.D

Acq: 7 Nov 2025 20:59

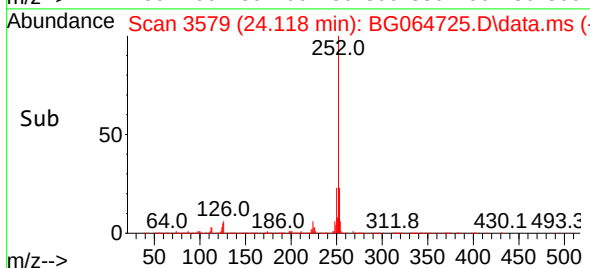
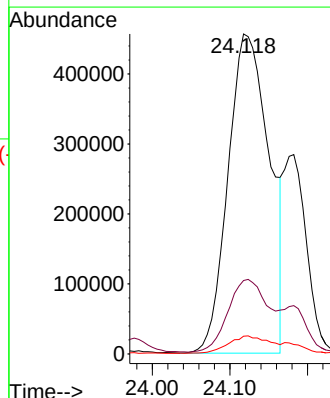
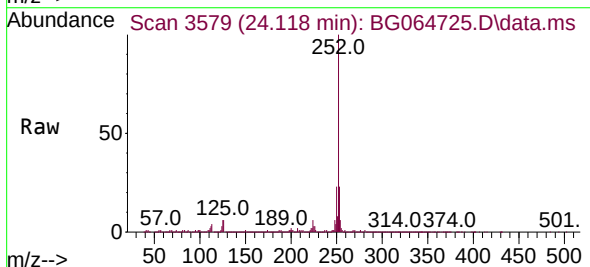
Tgt Ion:252 Resp: 1689977

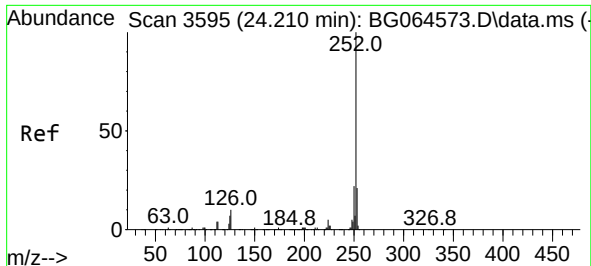
Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.8

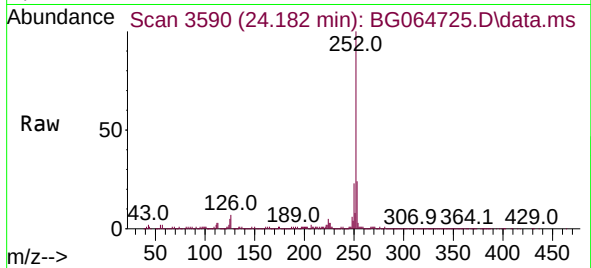
125 5.5 5.6 8.4





#89
Benzo(k)fluoranthene
Concen: 20.166 ng m
RT: 24.182 min Scan# 3595
Delta R.T. -0.028 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

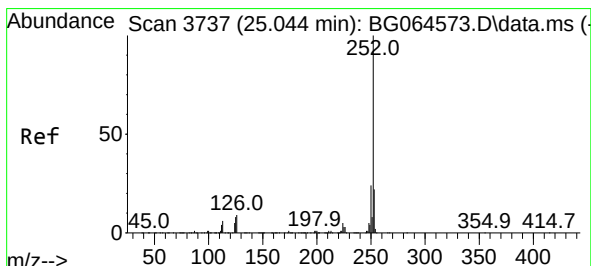
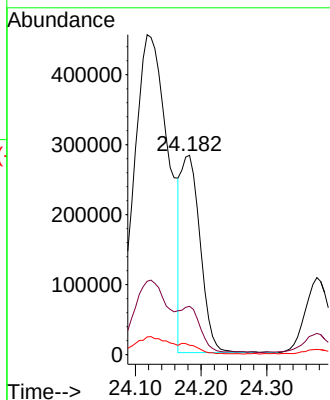
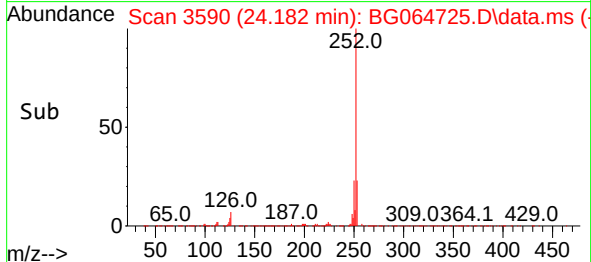
Instrument :
BNA_G
ClientSampleId :
OR-03-11062025



Tgt Ion:252 Resp: 571536
Ion Ratio Lower Upper
252 100
253 24.2 16.8 25.2
125 4.7 5.4 8.0

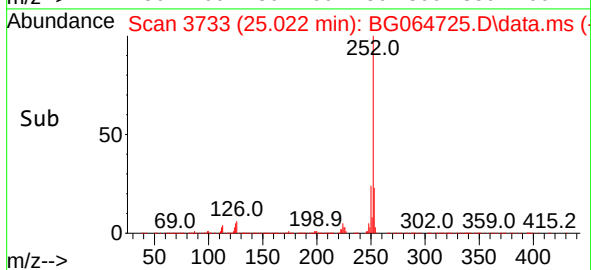
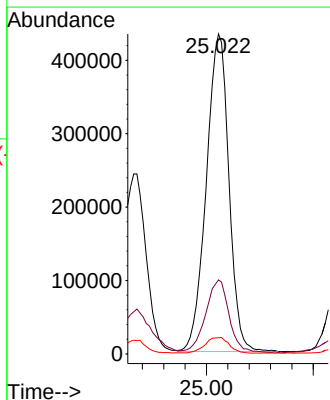
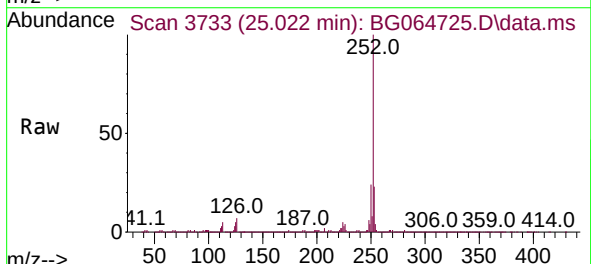
Manual Integrations
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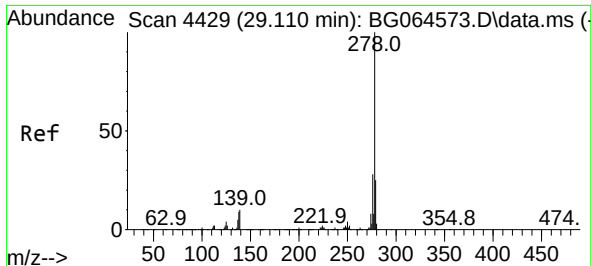
Reviewed By :Rahul Chavli 11/10/2025
Supervised By :Jagrut Upadhyay 11/10/2025



#90
Benzo(a)pyrene
Concen: 48.866 ng m
RT: 25.022 min Scan# 3733
Delta R.T. -0.022 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

Tgt Ion:252 Resp: 1272168
Ion Ratio Lower Upper
252 100
253 23.1 17.6 26.4
125 5.0 6.1 9.1





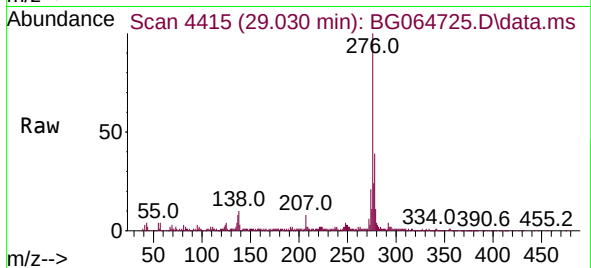
#91
Dibenzo(a,h)anthracene
Concen: 6.106 ng m
RT: 29.030 min Scan# 4415
Delta R.T. -0.081 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59

Instrument :

BNA_G

ClientSampleId :

OR-03-11062025



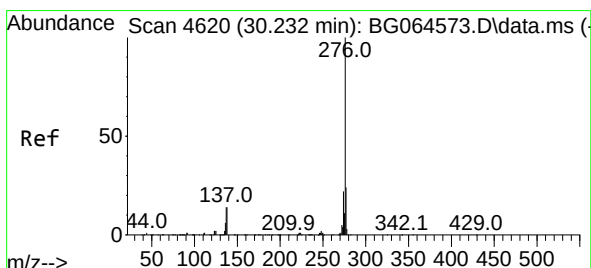
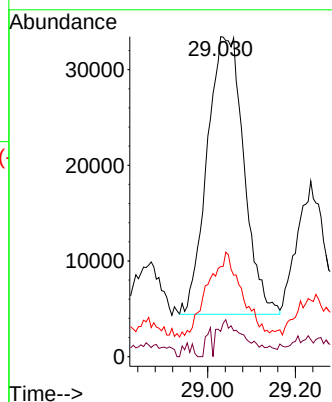
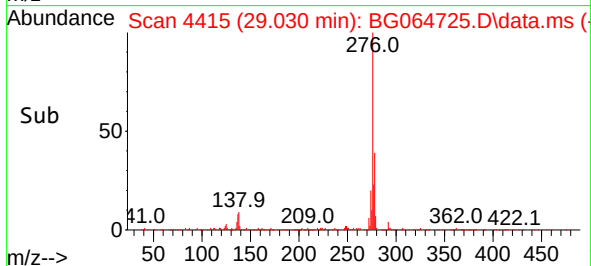
Tgt Ion:278 Resp: 168535
Ion Ratio Lower Upper
278 100
139 7.9 8.0 12.0
279 28.1 19.8 29.6

Manual Integrations

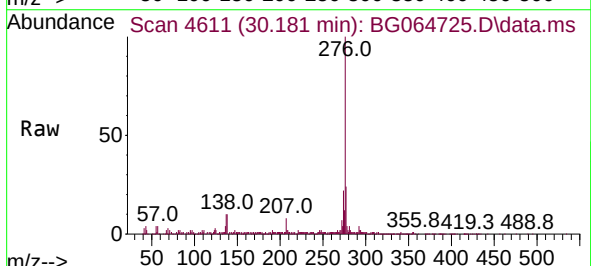
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Reviewed By :Rahul Chavli 11/10/2025

Supervised By :Jagrut Upadhyay 11/10/2025



#92
Benzo(g,h,i)perylene
Concen: 21.411 ng
RT: 30.181 min Scan# 4611
Delta R.T. -0.051 min
Lab File: BG064725.D
Acq: 7 Nov 2025 20:59



Tgt Ion:276 Resp: 564592
Ion Ratio Lower Upper
276 100
277 24.2 19.1 28.7
138 10.4 11.3 16.9

