

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102825\
 Data File : BG064613.D
 Acq On : 28 Oct 2025 22:39
 Operator : RC/JU
 Sample : Q3460-13 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 WC-4

Manual Integrations
 APPROVED

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

Quant Time: Nov 04 05:55:14 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	8.215	152	43582	20.000	ng	0.00
21) Naphthalene-d8	11.041	136	157160	20.000	ng	0.00
39) Acenaphthene-d10	14.837	164	116430	20.000	ng	0.00
64) Phenanthrene-d10	17.575	188	253116	20.000	ng	0.00
76) Chrysene-d12	21.846	240	306642	20.000	ng	-0.01
86) Perylene-d12	25.189	264	339356	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.747	112	45957	17.700	ng	0.00
7) Phenol-d6	7.345	99	58810	16.506	ng	0.00
23) Nitrobenzene-d5	9.378	82	35865	13.707	ng	0.00
42) 2,4,6-Tribromophenol	16.311	330	27878	16.590	ng	0.00
45) 2-Fluorobiphenyl	13.468	172	92106	11.991	ng	0.00
79) Terphenyl-d14	20.160	244	167937	10.335	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	17.616	178	64937	4.691	ng	98
75) Fluoranthene	19.607	202	191266	11.030	ng	97
78) Pyrene	19.972	202	205725	10.269	ng	100
81) Benzo(a)anthracene	21.828	228	131327	6.459	ng	99
83) Chrysene	21.893	228	114659m	5.927	ng	
87) Indeno(1,2,3-cd)pyrene	29.008	276	70043	2.806	ng	96
88) Benzo(b)fluoranthene	24.126	252	150585	7.236	ng	98
89) Benzo(k)fluoranthene	24.190	252	42047m	2.019	ng	
90) Benzo(a)pyrene	25.025	252	112448	5.879	ng	98
92) Benzo(g,h,i)perylene	30.195	276	68395	3.530	ng	# 95

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

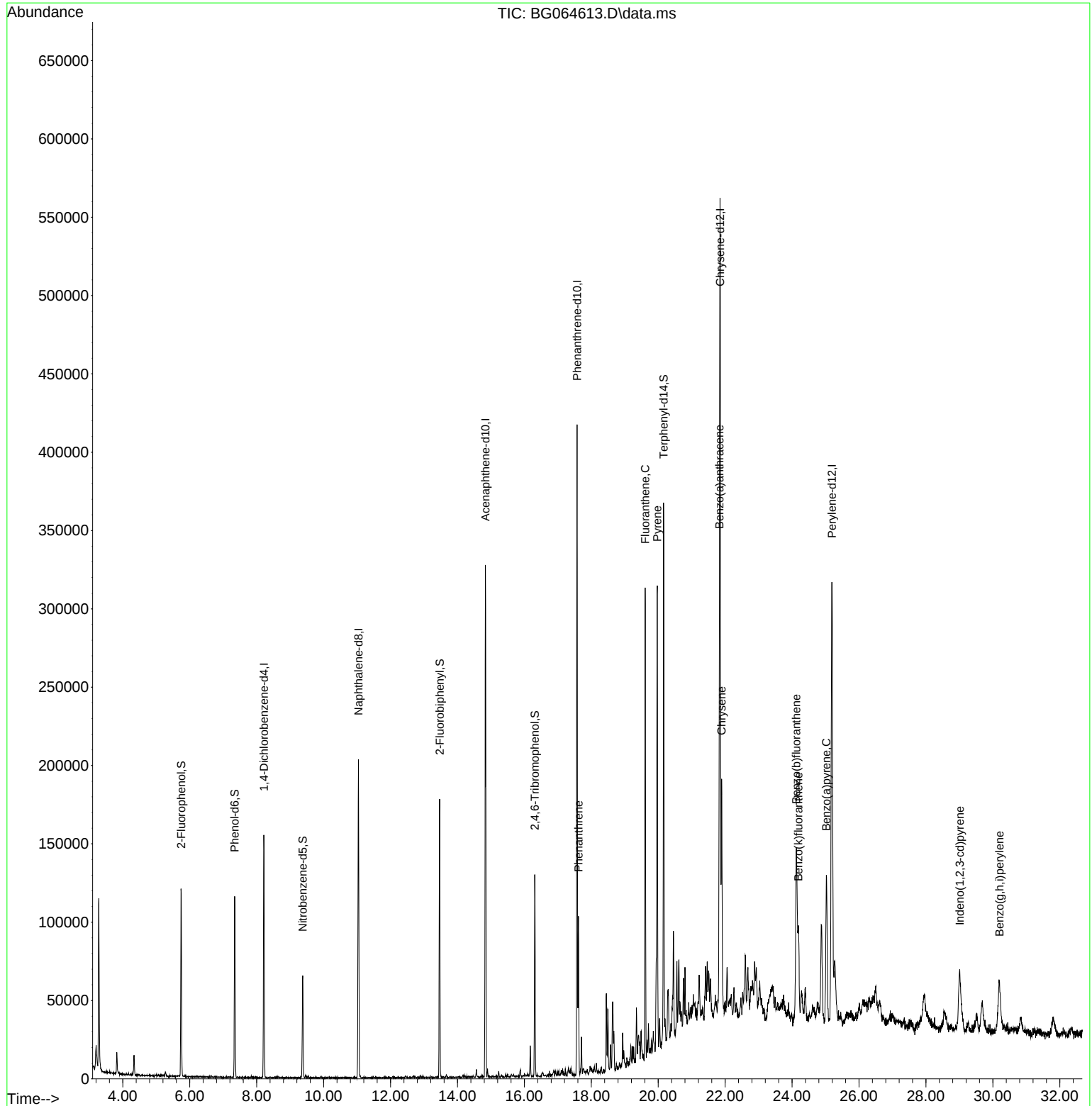
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102825\
Data File : BG064613.D
Acq On : 28 Oct 2025 22:39
Operator : RC/JU
Sample : Q3460-13 5X
Misc :
ALS Vial : 15 Sample Multiplier: 1

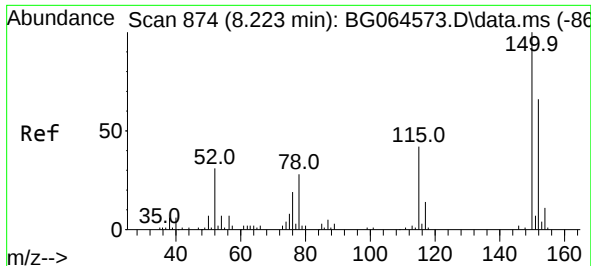
Instrument :
BNA_G
ClientSampleId :
WC-4

Quant Time: Nov 04 05:55:14 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
APPROVED

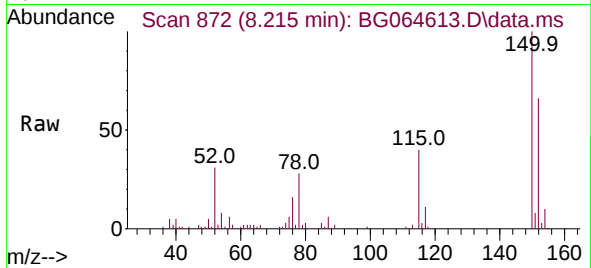
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.215 min Scan# 81
Delta R.T. -0.008 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

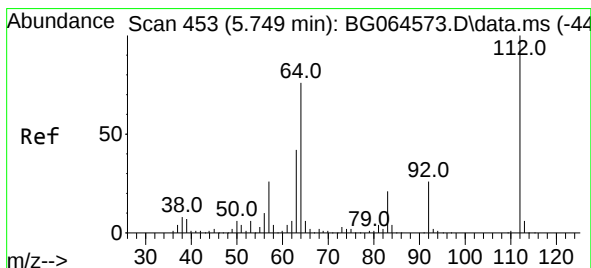
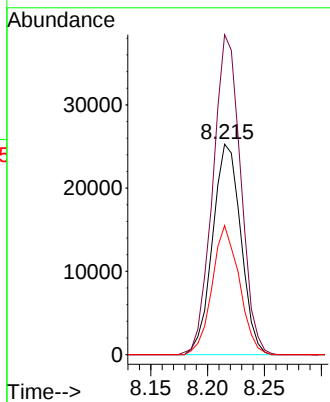
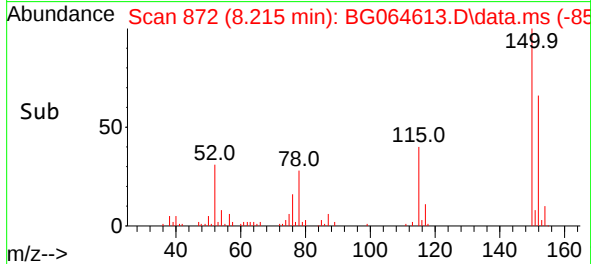
Instrument :
BNA_G
ClientSampleId :
WC-4



Tgt Ion:152 Resp: 43582
Ion Ratio Lower Upper
152 100
150 152.0 122.2 183.4
115 61.3 50.8 76.2

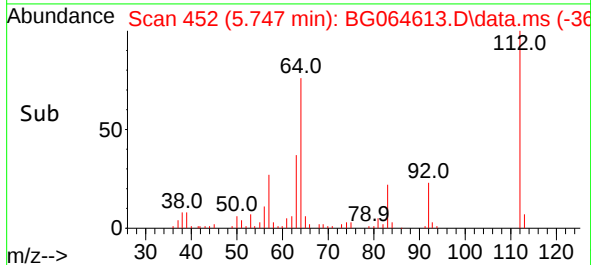
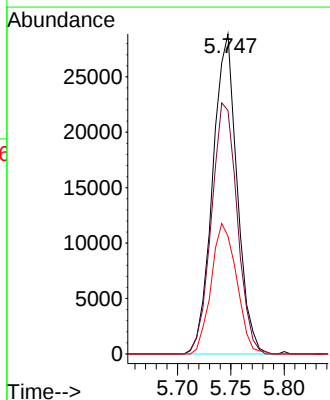
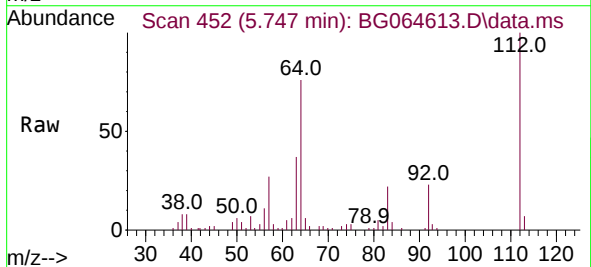
Manual Integrations
APPROVED

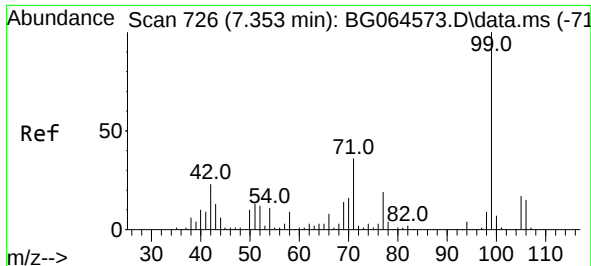
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#5
2-Fluorophenol
Concen: 17.700 ng
RT: 5.747 min Scan# 452
Delta R.T. -0.002 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

Tgt Ion:112 Resp: 45957
Ion Ratio Lower Upper
112 100
64 76.1 60.7 91.1
63 36.8 33.4 50.0





#7

Phenol-d6

Concen: 16.506 ng

RT: 7.345 min Scan# 71

Delta R.T. -0.008 min BNA_G

Lab File: BG064613.D

Acq: 28 Oct 2025 22:39

Instrument :

BNA_G

ClientSampleId :

WC-4

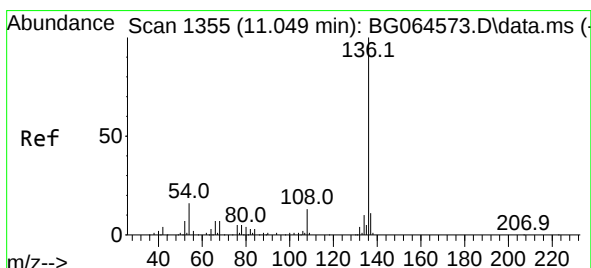
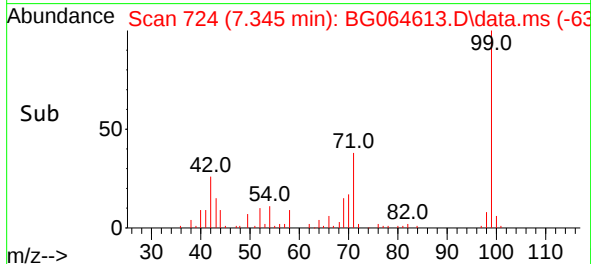
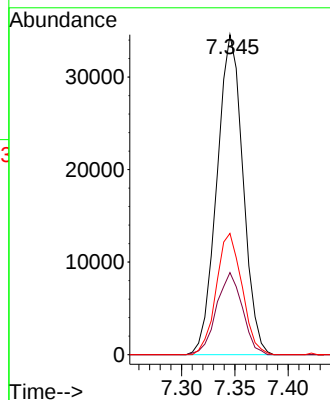
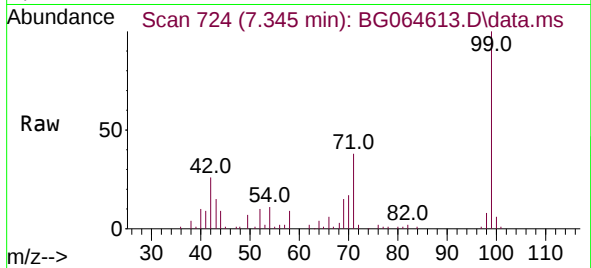
Tgt Ion: 99	Resp: 58810
Ion Ratio	Lower Upper
99 100	
42 25.6	18.3 27.5
71 37.9	28.6 43.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/29/2025

Supervised By :mohammad ahmed 11/05/2025



#21

Napthalene-d8

Concen: 20.000 ng

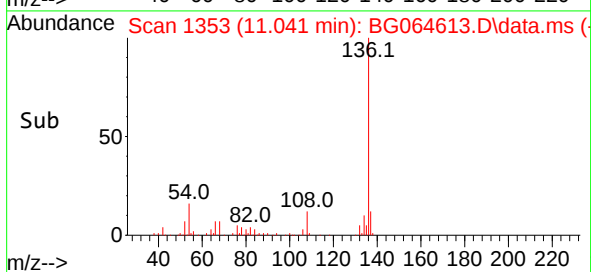
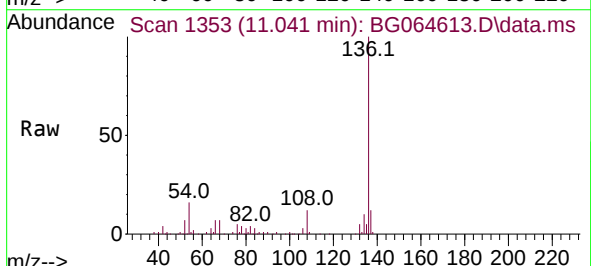
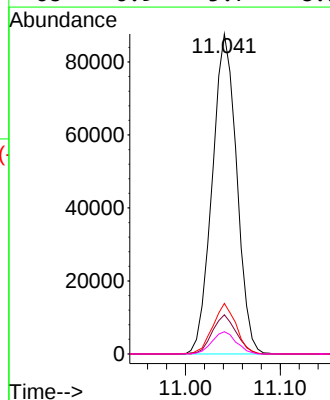
RT: 11.041 min Scan# 1353

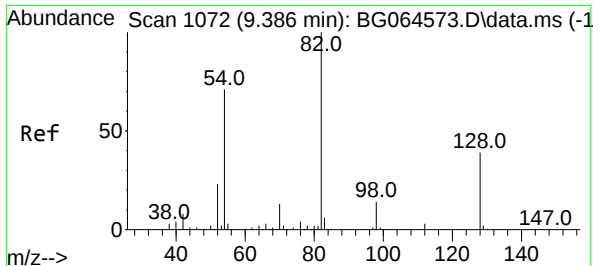
Delta R.T. -0.008 min

Lab File: BG064613.D

Acq: 28 Oct 2025 22:39

Tgt Ion:136	Resp: 157160
Ion Ratio	Lower Upper
136 100	
137 12.2	9.2 13.8
54 15.8	12.6 19.0
68 6.9	5.7 8.5





#23

Nitrobenzene-d5

Concen: 13.707 ng

RT: 9.378 min Scan# 1072

Delta R.T. -0.008 min

Lab File: BG064613.D

Acq: 28 Oct 2025 22:39

Instrument :

BNA_G

ClientSampleId :

WC-4

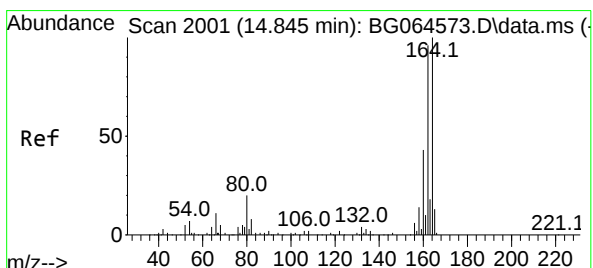
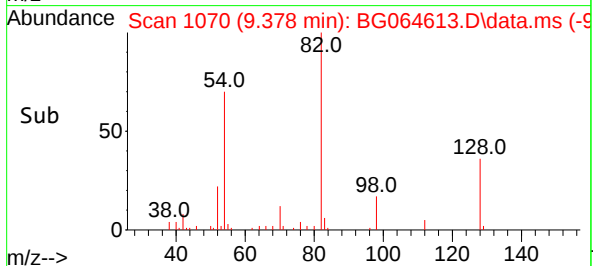
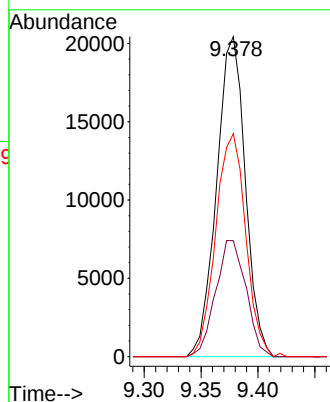
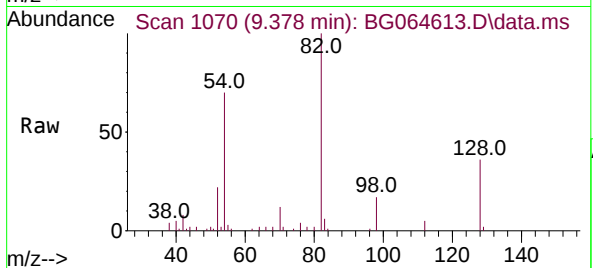
Tgt Ion: 82	Resp: 3586
Ion Ratio	Lower Upper
82 100	
128 36.2	31.3 46.9
54 69.7	56.6 84.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/29/2025

Supervised By :mohammad ahmed 11/05/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

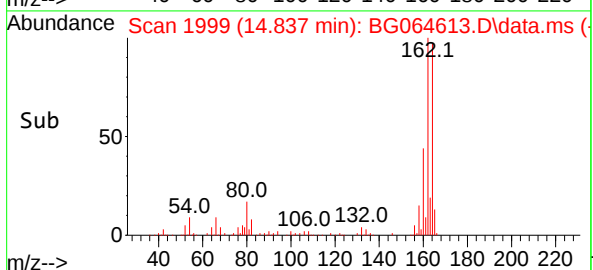
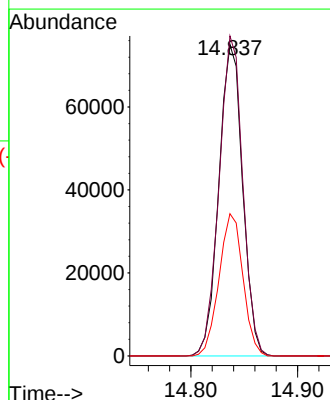
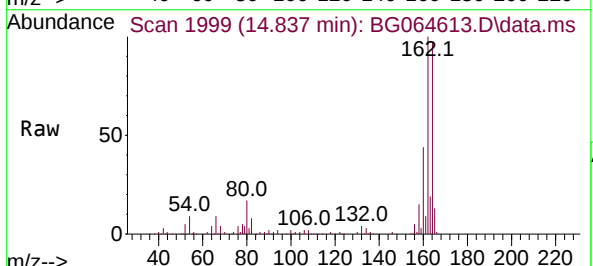
RT: 14.837 min Scan# 1999

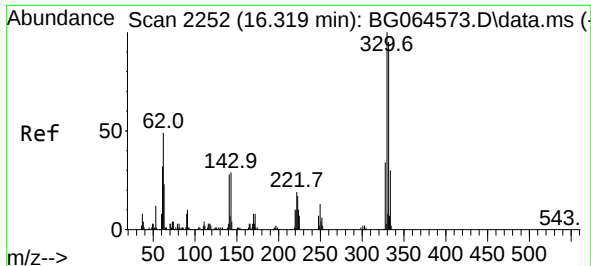
Delta R.T. -0.008 min

Lab File: BG064613.D

Acq: 28 Oct 2025 22:39

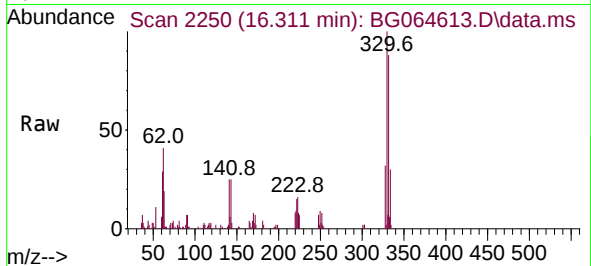
Tgt Ion:164	Resp: 116430
Ion Ratio	Lower Upper
164 100	
162 102.8	77.0 115.6
160 45.7	34.4 51.6





#42
2,4,6-Tribromophenol
Concen: 16.590 ng
RT: 16.311 min Scan# 21
Delta R.T. -0.008 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

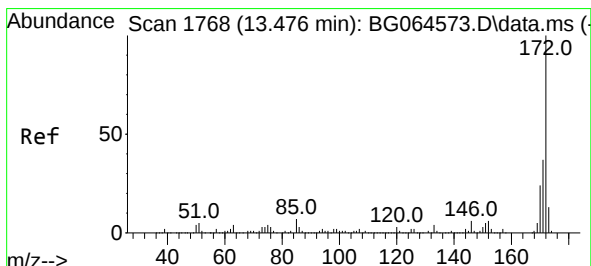
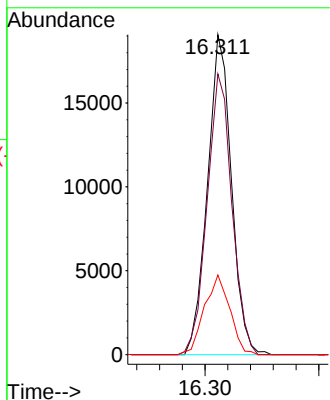
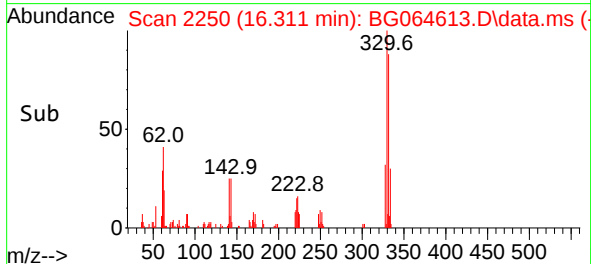
Instrument :
BNA_G
ClientSampleId :
WC-4



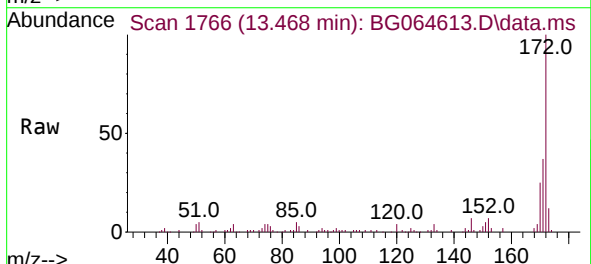
Tgt Ion:330 Resp: 27878
Ion Ratio Lower Upper
330 100
332 90.8 78.0 117.0
141 26.4 21.8 32.6

Manual Integrations
APPROVED

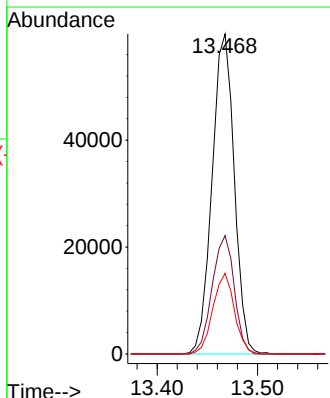
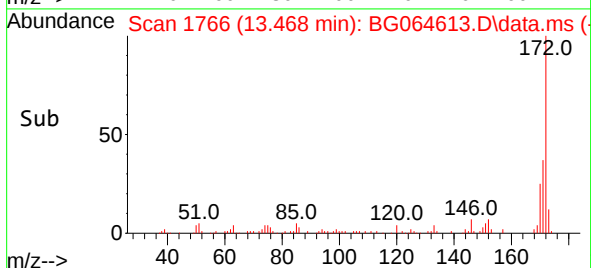
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025

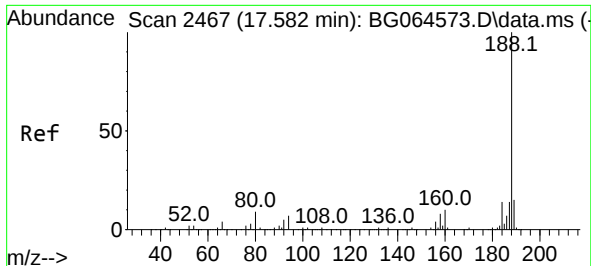


#45
2-Fluorobiphenyl
Concen: 11.991 ng
RT: 13.468 min Scan# 1766
Delta R.T. -0.008 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39



Tgt Ion:172 Resp: 92106
Ion Ratio Lower Upper
172 100
171 37.0 29.4 44.0
170 25.2 19.1 28.7





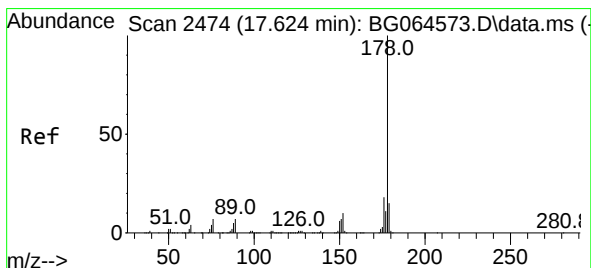
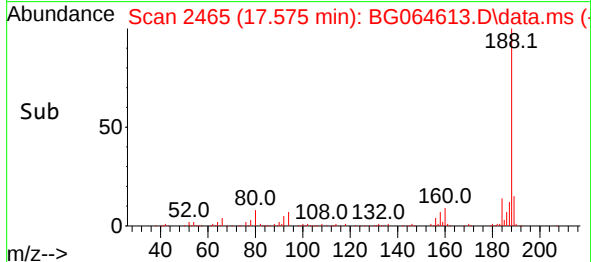
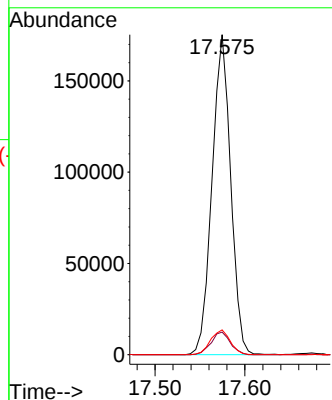
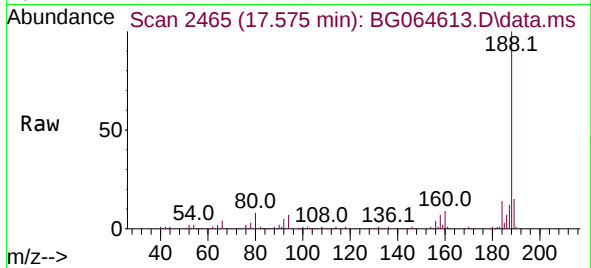
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.575 min Scan# 2465
Delta R.T. -0.008 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

Instrument :
BNA_G
ClientSampleId :
WC-4

Tgt Ion:188 Resp: 253116
Ion Ratio Lower Upper
188 100
94 7.0 5.7 8.5
80 7.7 6.8 10.2

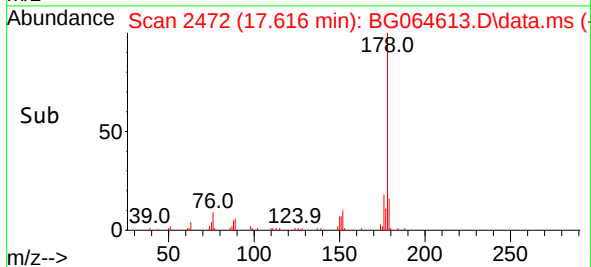
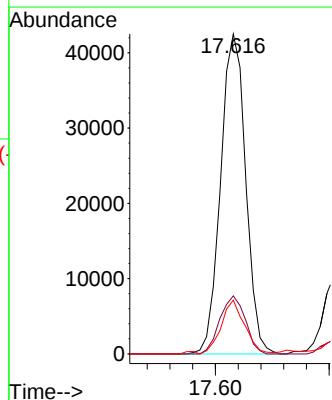
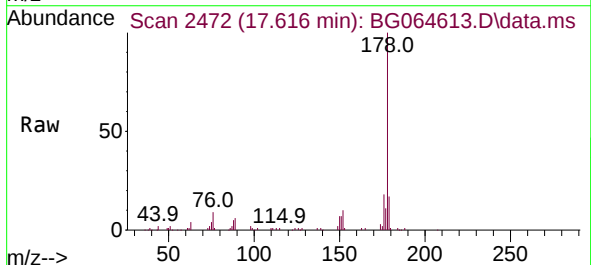
Manual Integrations
APPROVED

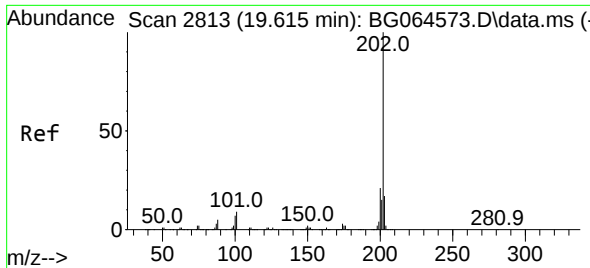
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#71
Phenanthrene
Concen: 4.691 ng
RT: 17.616 min Scan# 2472
Delta R.T. -0.008 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

Tgt Ion:178 Resp: 64937
Ion Ratio Lower Upper
178 100
176 18.1 14.7 22.1
179 16.8 12.2 18.4





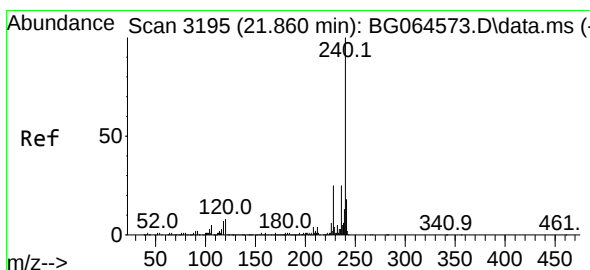
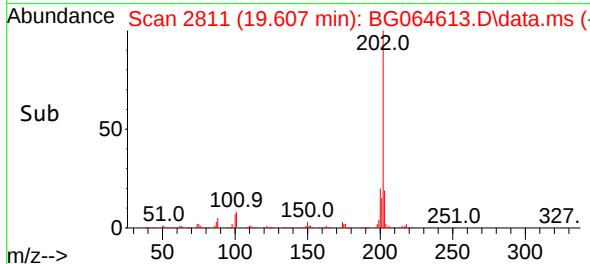
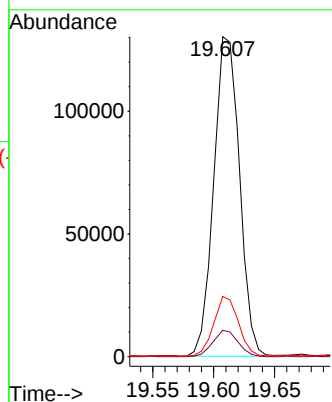
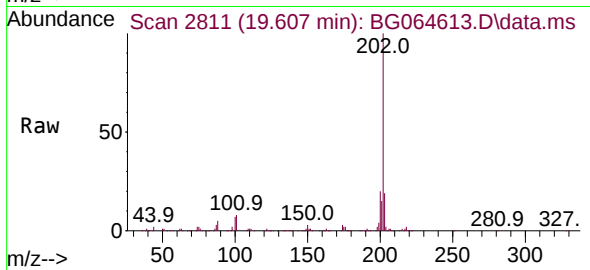
#75
Fluoranthene
Concen: 11.030 ng
RT: 19.607 min Scan# 2811
Delta R.T. -0.008 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

Instrument :
BNA_G
ClientSampleId :
WC-4

Tgt Ion:202 Resp: 191266
Ion Ratio Lower Upper
202 100
101 8.2 0.0 28.7
203 18.8 0.0 37.0

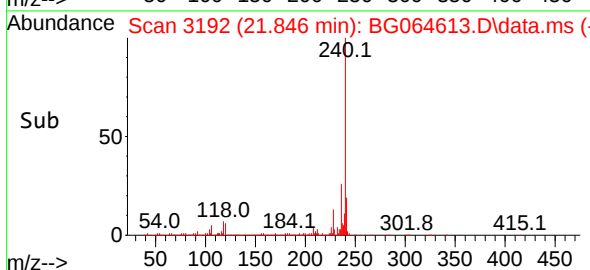
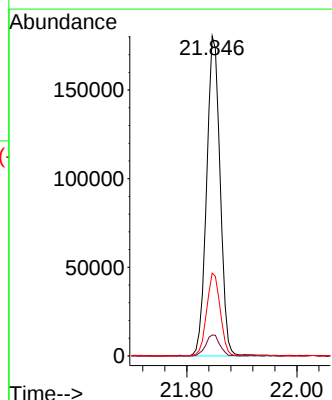
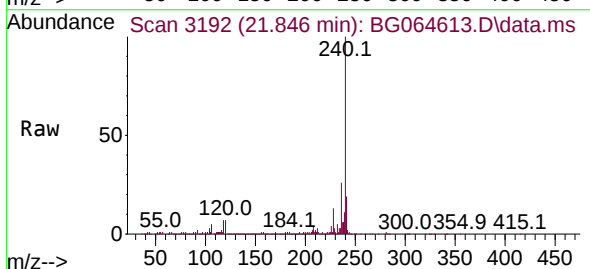
Manual Integrations
APPROVED

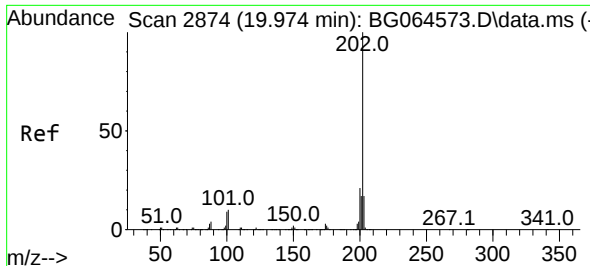
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.846 min Scan# 3192
Delta R.T. -0.014 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

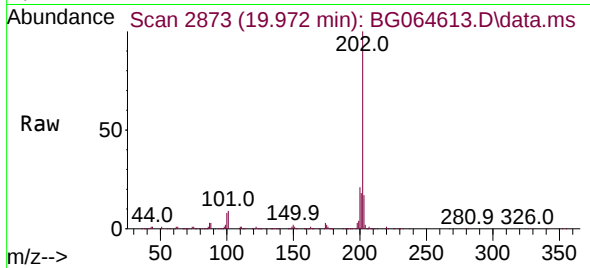
Tgt Ion:240 Resp: 306642
Ion Ratio Lower Upper
240 100
120 6.5 6.5 9.7
236 25.9 20.2 30.2





#78
Pyrene
Concen: 10.269 ng
RT: 19.972 min Scan# 2874
Delta R.T. -0.002 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

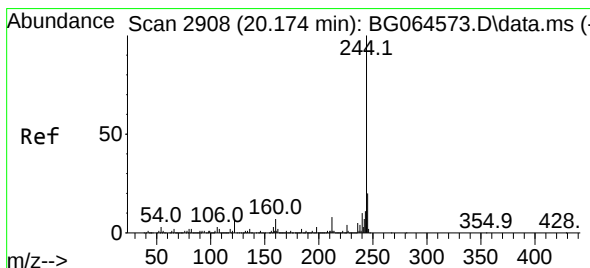
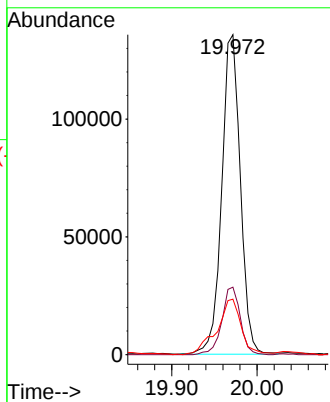
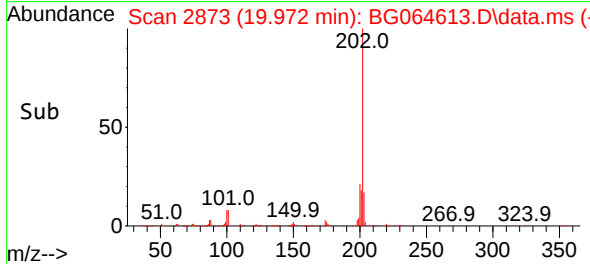
Instrument :
BNA_G
ClientSampleId :
WC-4



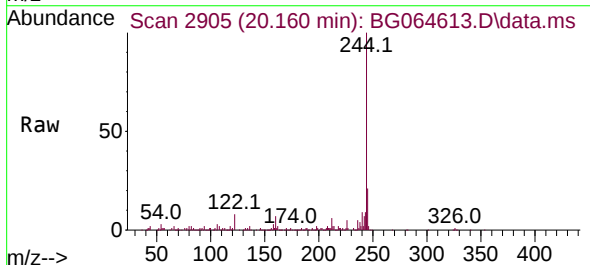
Tgt Ion:202 Resp: 205725
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.3 13.8 20.6

Manual Integrations
APPROVED

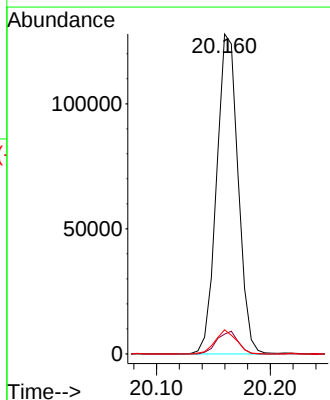
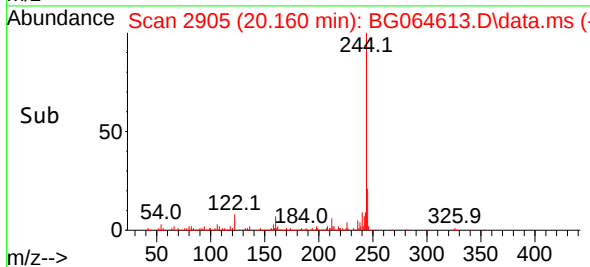
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025

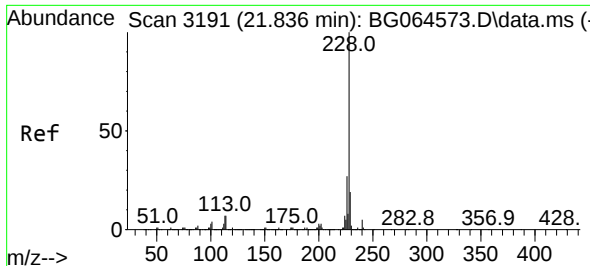


#79
Terphenyl-d14
Concen: 10.335 ng
RT: 20.160 min Scan# 2905
Delta R.T. -0.014 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39



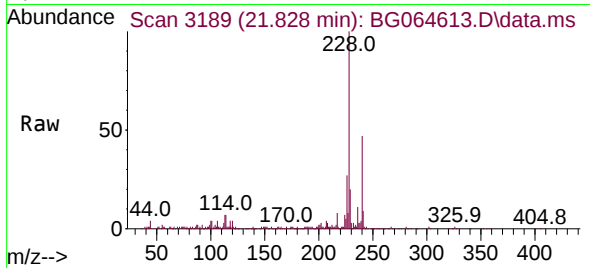
Tgt Ion:244 Resp: 167937
Ion Ratio Lower Upper
244 100
212 6.2 6.1 9.1
122 7.5 5.6 8.4





#81
Benzo(a)anthracene
Concen: 6.459 ng
RT: 21.828 min Scan# 3191
Delta R.T. -0.008 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

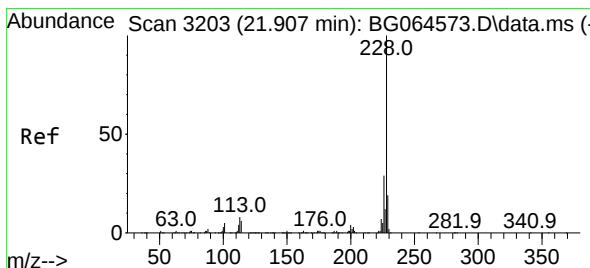
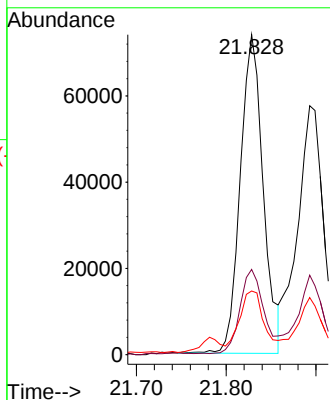
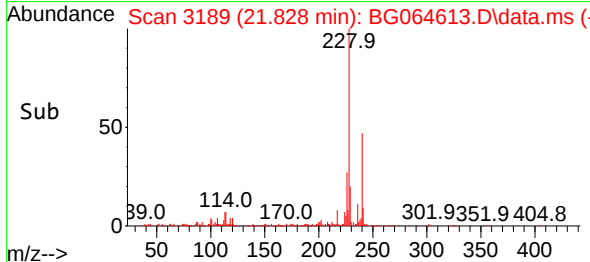
Instrument :
BNA_G
ClientSampleId :
WC-4



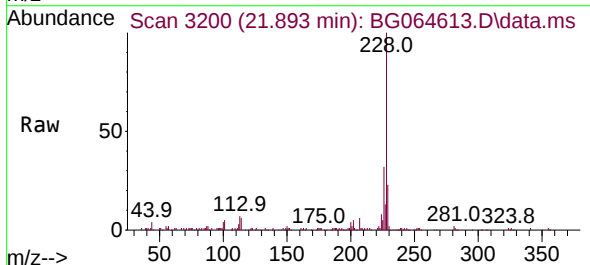
Tgt Ion:228 Resp: 131327
Ion Ratio Lower Upper
228 100
226 26.6 21.9 32.9
229 19.9 15.6 23.4

Manual Integrations
APPROVED

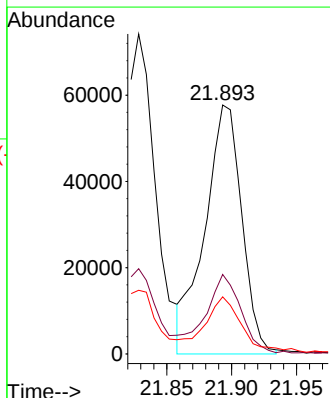
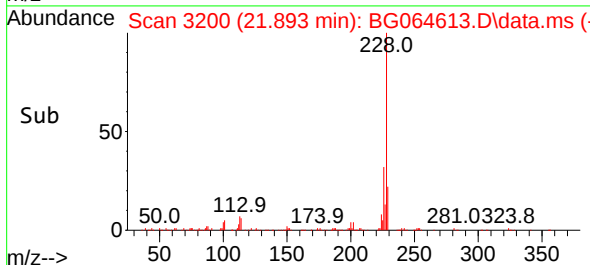
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025

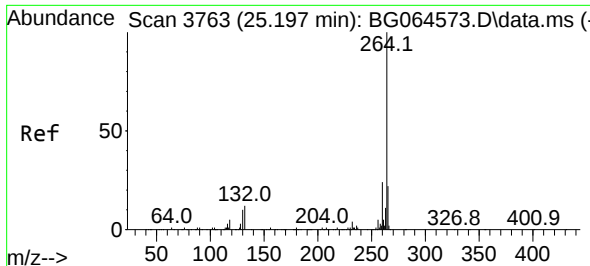


#83
Chrysene
Concen: 5.927 ng m
RT: 21.893 min Scan# 3200
Delta R.T. -0.014 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39



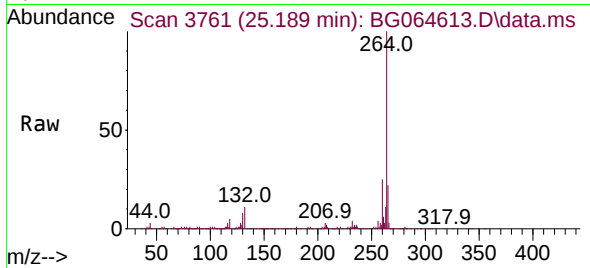
Tgt Ion:228 Resp: 114659
Ion Ratio Lower Upper
228 100
226 31.9 23.3 34.9
229 22.9 15.2 22.8#





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.189 min Scan# 31
Delta R.T. -0.008 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

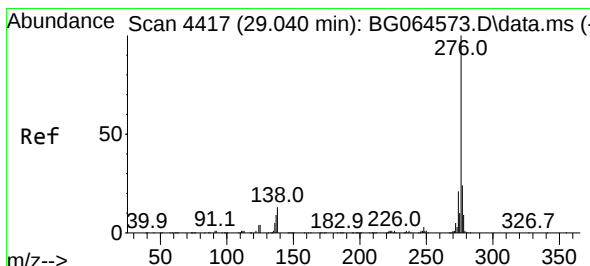
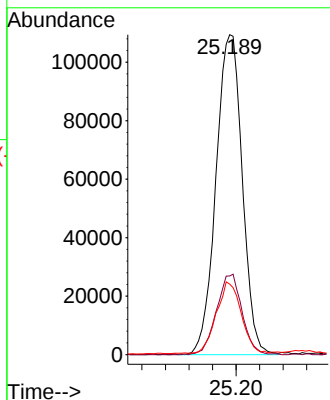
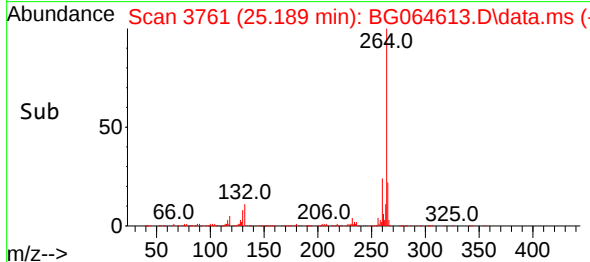
Instrument :
BNA_G
ClientSampleId :
WC-4



Tgt Ion:264 Resp: 339356
Ion Ratio Lower Upper
264 100
260 24.6 19.0 28.4
265 22.0 17.6 26.4

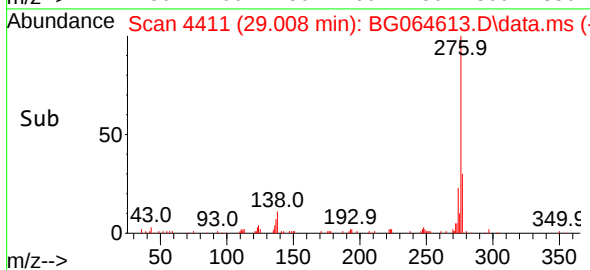
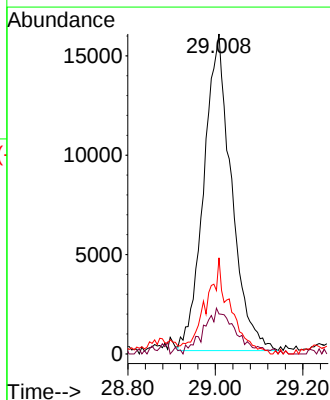
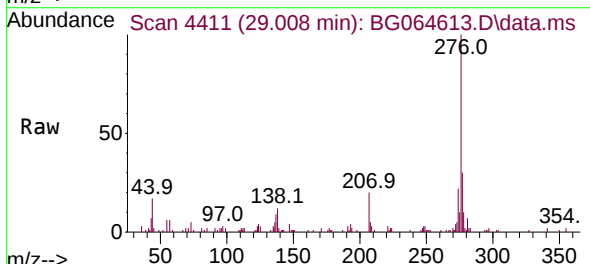
Manual Integrations
APPROVED

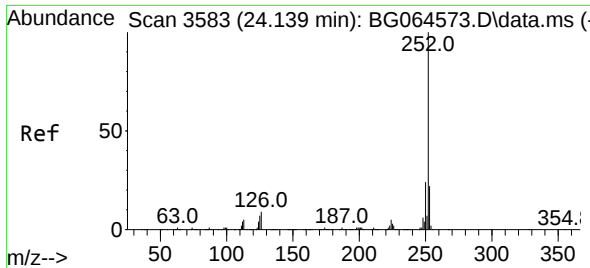
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 2.806 ng
RT: 29.008 min Scan# 4411
Delta R.T. -0.031 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

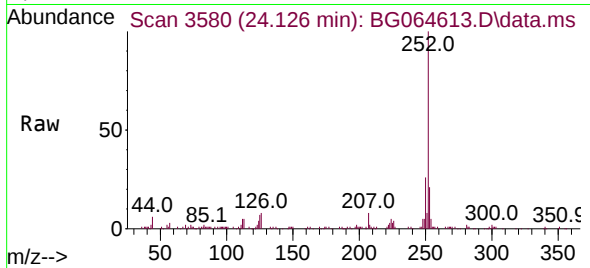
Tgt Ion:276 Resp: 70043
Ion Ratio Lower Upper
276 100
138 15.8 10.8 16.2
277 27.0 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 7.236 ng
RT: 24.126 min Scan# 3580
Delta R.T. -0.014 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

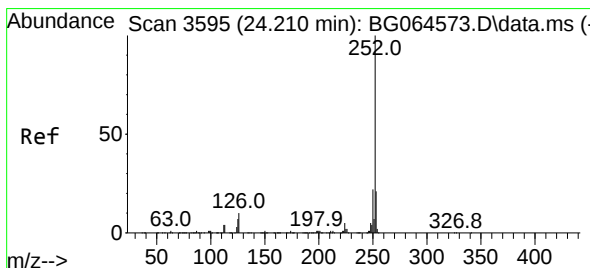
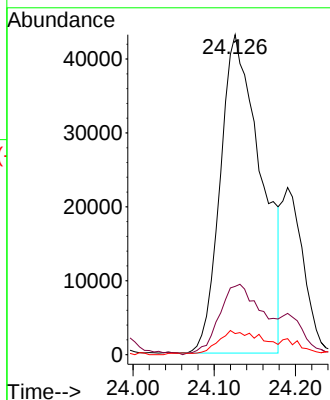
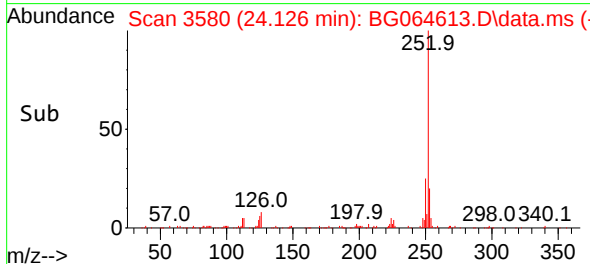
Instrument :
BNA_G
ClientSampleId :
WC-4



Tgt Ion:252 Resp: 150585
Ion Ratio Lower Upper
252 100
253 21.3 17.8 26.8
125 6.6 5.6 8.4

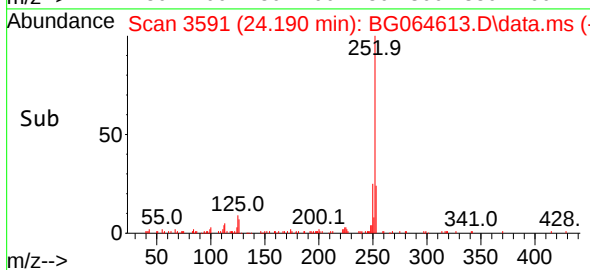
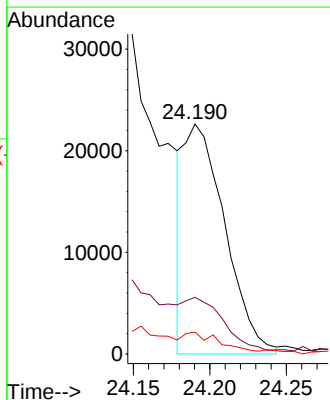
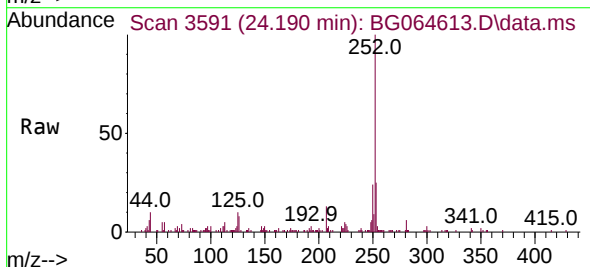
Manual Integrations
APPROVED

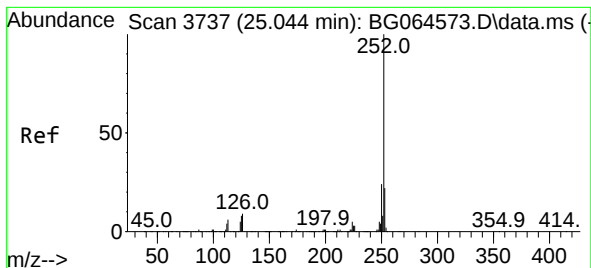
Reviewed By :Rahul Chavli 10/29/2025
Supervised By :mohammad ahmed 11/05/2025



#89
Benzo(k)fluoranthene
Concen: 2.019 ng m
RT: 24.190 min Scan# 3591
Delta R.T. -0.020 min
Lab File: BG064613.D
Acq: 28 Oct 2025 22:39

Tgt Ion:252 Resp: 42047
Ion Ratio Lower Upper
252 100
253 24.6 16.8 25.2
125 9.5 5.4 8.0





#90

Benzo(a)pyrene

Concen: 5.879 ng

RT: 25.025 min Scan# 31

Delta R.T. -0.020 min

Lab File: BG064613.D

Acq: 28 Oct 2025 22:39

Instrument :

BNA_G

ClientSampleId :

WC-4

Tgt Ion:252 Resp: 112448

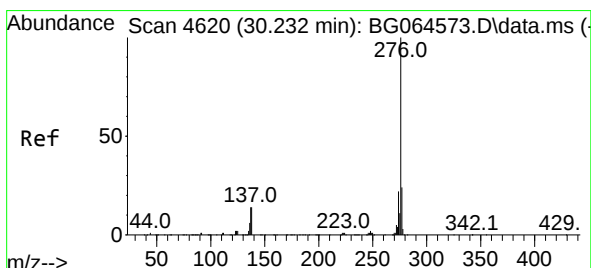
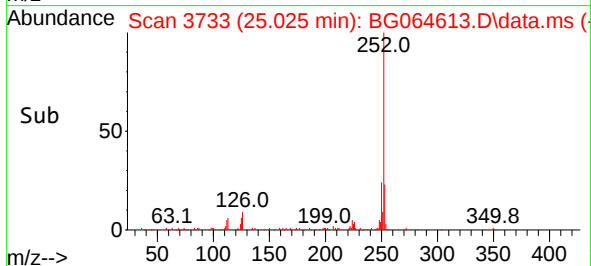
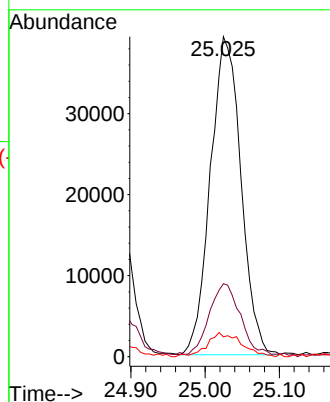
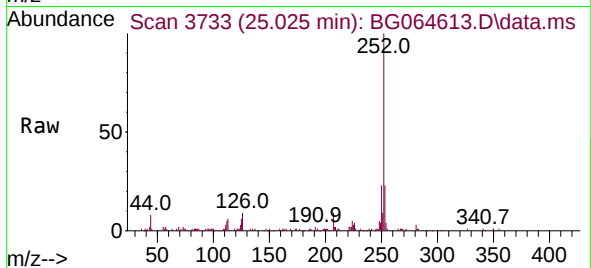
Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.6	26.4
125	6.2	6.1	9.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/29/2025

Supervised By :mohammad ahmed 11/05/2025



#92

Benzo(g,h,i)perylene

Concen: 3.530 ng

RT: 30.195 min Scan# 4613

Delta R.T. -0.037 min

Lab File: BG064613.D

Acq: 28 Oct 2025 22:39

Tgt Ion:276 Resp: 68395

Ion	Ratio	Lower	Upper
276	100		
277	22.4	19.1	28.7
138	11.1	11.3	16.9

