

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG101625\
 Data File : BG064521.D
 Acq On : 16 Oct 2025 18:20
 Operator : RC/JU
 Sample : Q3348-05
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 WCS-TP2

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/17/2025
 Supervised By :Jagrut Upadhyay 10/17/2025

Quant Time: Oct 16 21:58:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 02 16:40:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.814	152	14075	20.000	ng	# 0.00
21) Naphthalene-d8	10.605	136	57535	20.000	ng	0.00
39) Acenaphthene-d10	14.448	164	44053	20.000	ng	0.00
64) Phenanthrene-d10	17.186	188	109460	20.000	ng	0.00
76) Chrysene-d12	21.416	240	123896	20.000	ng	0.00
86) Perylene-d12	24.395	264	146947	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.411	112	68988	90.710	ng	0.00
7) Phenol-d6	6.992	99	93483	91.468	ng	0.00
23) Nitrobenzene-d5	8.972	82	62847	58.734	ng	0.00
42) 2,4,6-Tribromophenol	15.934	330	74732	93.588	ng	0.00
45) 2-Fluorobiphenyl	13.067	172	157457	52.685	ng	0.00
79) Terphenyl-d14	19.806	244	312144	47.680	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.652	128	98061	33.098	ng	97
37) 2-Methylnaphthalene	12.268	142	15978m	7.026	ng	
38) 1-Methylnaphthalene	12.485	142	20143	8.882	ng	# 94
49) Acenaphthylene	14.166	152	27310	7.777	ng	98
52) Acenaphthene	14.506	154	18605	7.626	ng	95
55) Dibenzofuran	14.841	168	8991	2.232	ng	# 96
58) Fluorene	15.493	166	14573	4.351	ng	100
71) Phenanthrene	17.227	178	140962	24.625	ng	99
72) Anthracene	17.321	178	40878	7.118	ng	96
73) Carbazole	17.591	167	23034	4.640	ng	96
75) Fluoranthene	19.242	202	556803	81.421	ng	97
78) Pyrene	19.606	202	559157	69.543	ng	98
81) Benzo(a)anthracene	21.398	228	436605	55.191	ng	98
83) Chrysene	21.463	228	428496m	57.115	ng	
87) Indeno(1,2,3-cd)pyrene	27.767	276	319889	31.275	ng	97
88) Benzo(b)fluoranthene	23.472	252	644760	77.126	ng	99
89) Benzo(k)fluoranthene	23.519	252	200057m	23.761	ng	
90) Benzo(a)pyrene	24.265	252	466021	60.485	ng	98
91) Dibenzo(a,h)anthracene	27.785	278	80349	9.823	ng	# 96
92) Benzo(g,h,i)perylene	28.807	276	292975	36.857	ng	99

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

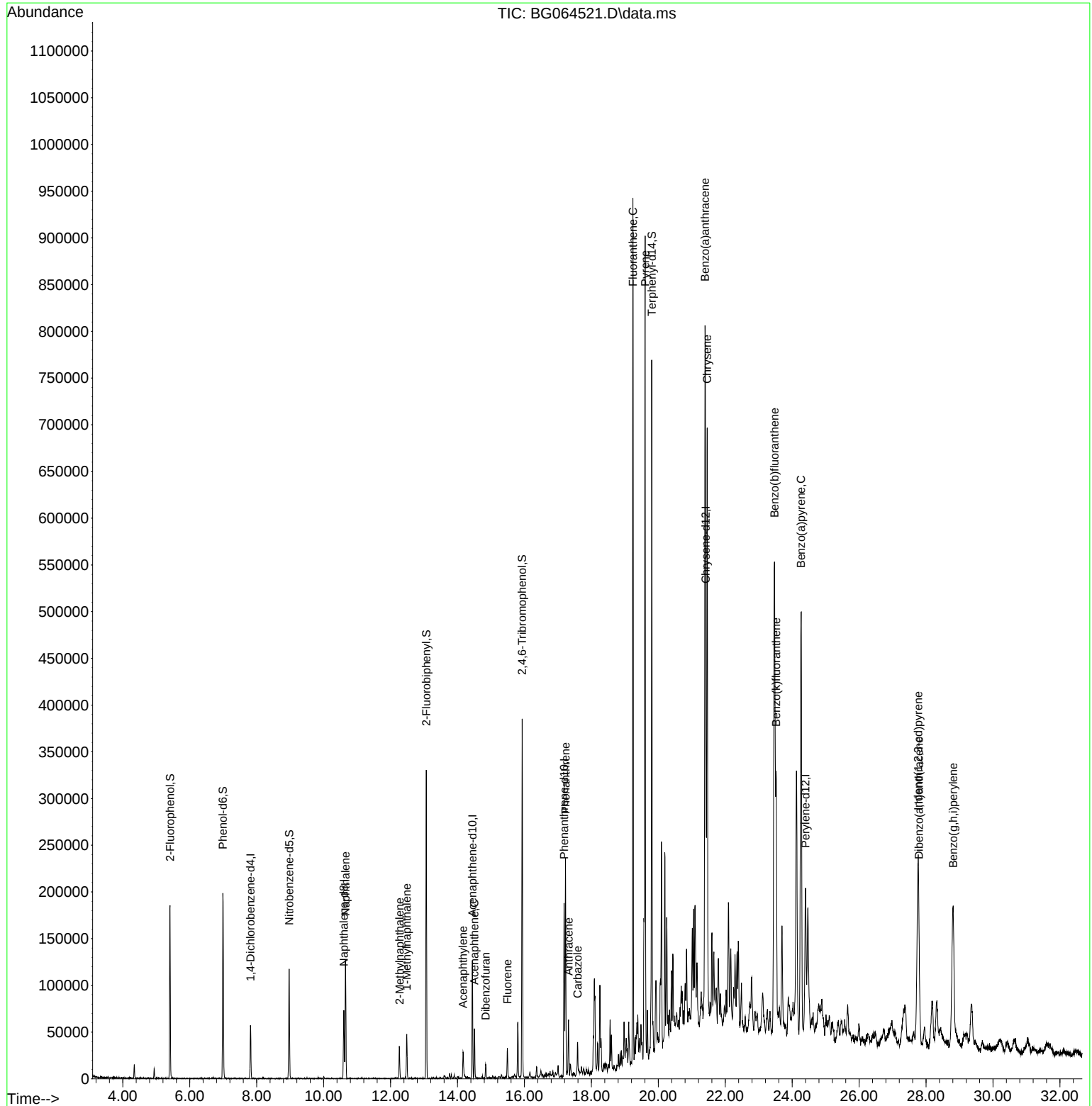
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG101625\
Data File : BG064521.D
Acq On : 16 Oct 2025 18:20
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Sample : Q3348-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

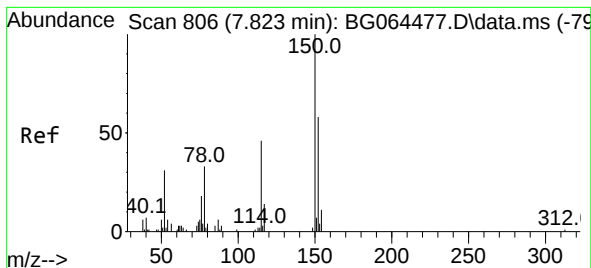
Instrument :
BNA_G
ClientSampleId :
WCS-TP2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 7.814 min Scan# 806

Delta R.T. -0.006 min

Lab File: BG064521.D

Acq: 16 Oct 2025 18:20

Instrument :

BNA_G

ClientSampleId :

WCS-TP2

Tgt Ion:152 Resp: 14075

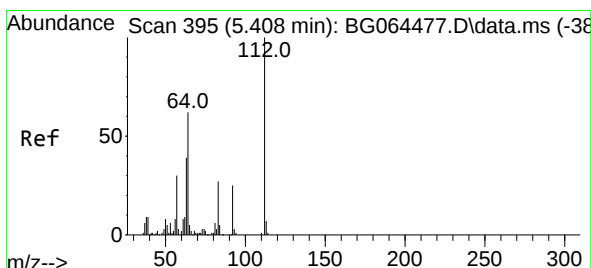
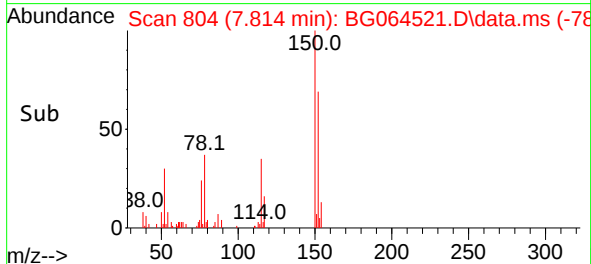
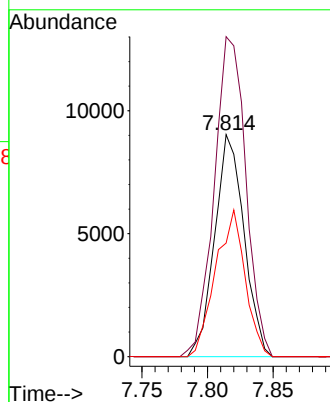
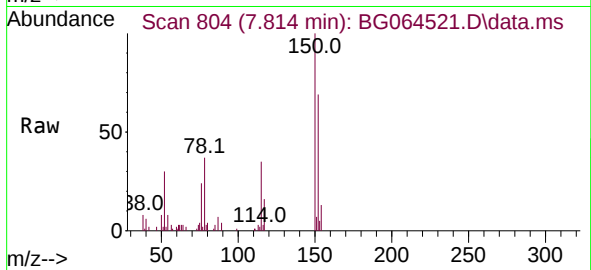
Ion	Ratio	Lower	Upper
152	100		
150	144.2	138.6	207.8
115	51.2	63.4	95.2

Manual Integrations

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#5

2-Fluorophenol

Concen: 90.710 ng

RT: 5.411 min Scan# 395

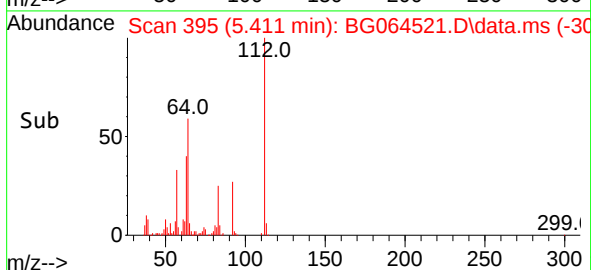
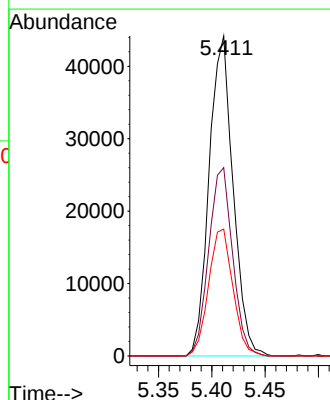
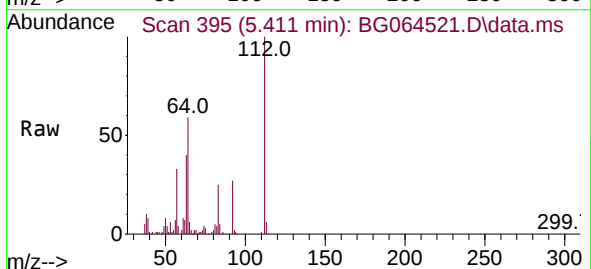
Delta R.T. 0.005 min

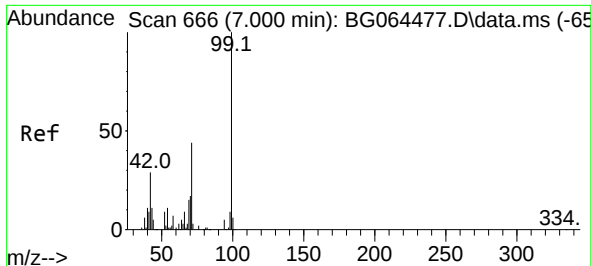
Lab File: BG064521.D

Acq: 16 Oct 2025 18:20

Tgt Ion:112 Resp: 68988

Ion	Ratio	Lower	Upper
112	100		
64	58.8	49.8	74.8
63	39.6	31.3	46.9





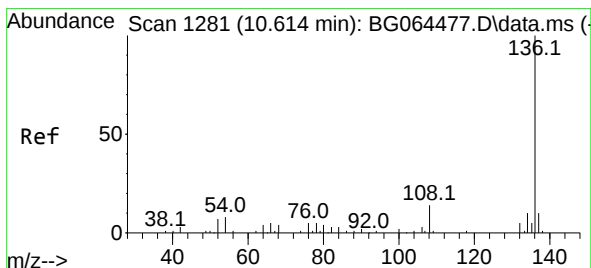
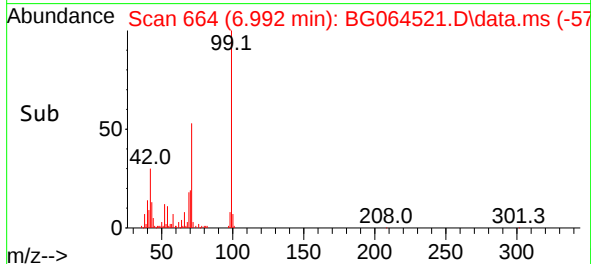
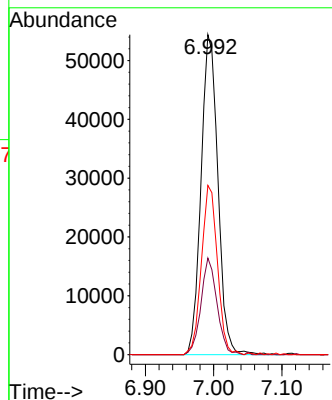
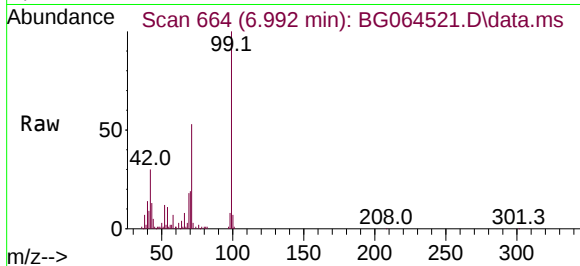
#7
Phenol-d6
Concen: 91.468 ng
RT: 6.992 min Scan# 60
Delta R.T. 0.005 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

Instrument :
BNA_G
ClientSampleId :
WCS-TP2

Tgt Ion: 99 Resp: 93483
Ion Ratio Lower Upper
99 100
42 30.2 22.9 34.3
71 52.9 35.4 53.2

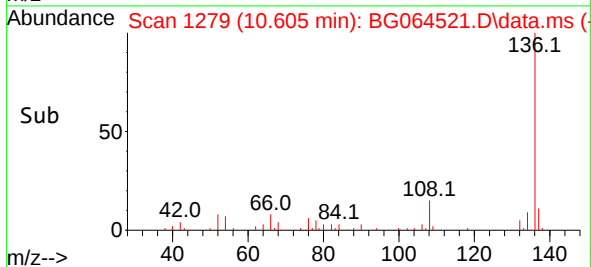
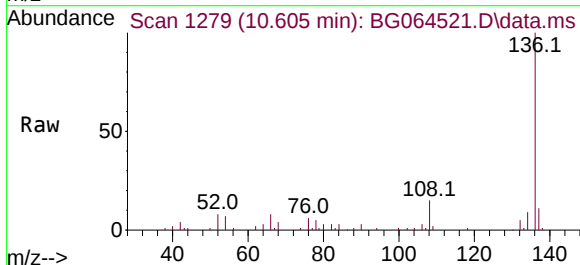
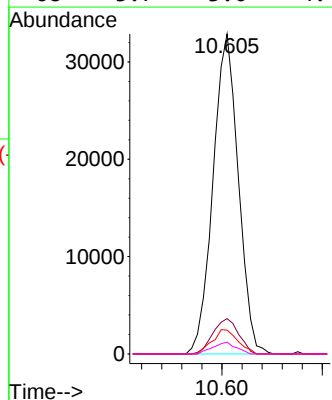
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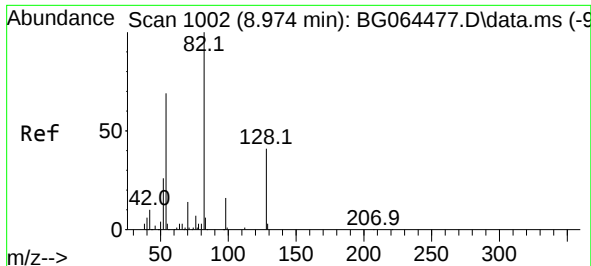
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.605 min Scan# 1279
Delta R.T. -0.000 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

Tgt Ion:136 Resp: 57535
Ion Ratio Lower Upper
136 100
137 11.0 8.3 12.5
54 7.4 6.2 9.4
68 3.7 3.0 4.4





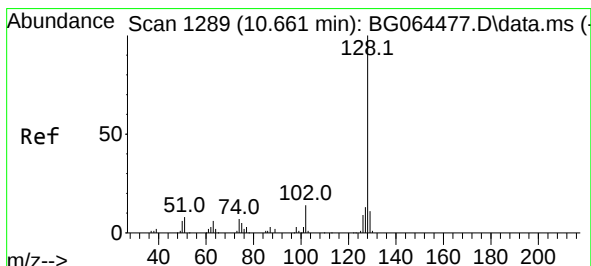
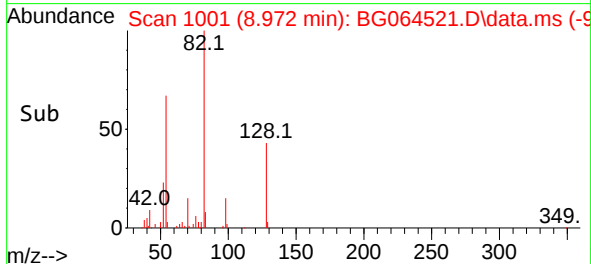
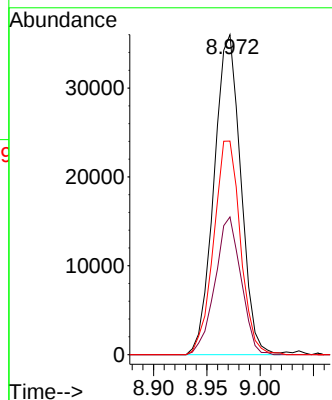
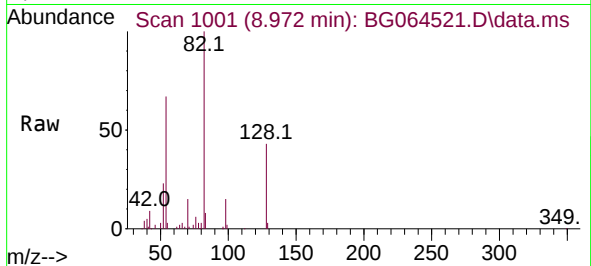
#23
Nitrobenzene-d5
Concen: 58.734 ng
RT: 8.972 min Scan# 1002
Delta R.T. 0.005 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

Instrument :
BNA_G
ClientSampleId :
WCS-TP2

Tgt Ion: 82 Resp: 6284
Ion Ratio Lower Upper
82 100
128 43.0 33.1 49.7
54 66.7 55.4 83.2

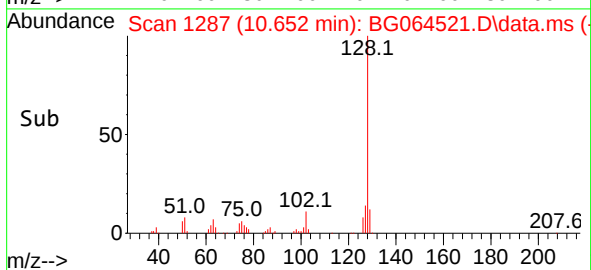
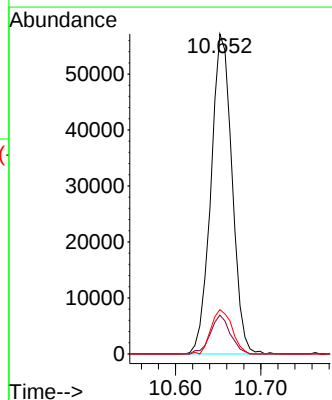
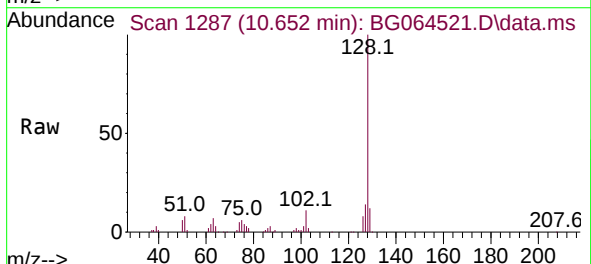
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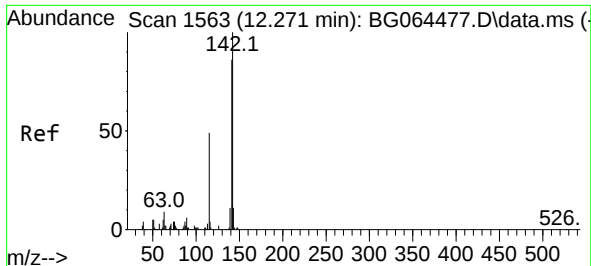
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#31
Naphthalene
Concen: 33.098 ng
RT: 10.652 min Scan# 1287
Delta R.T. -0.000 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

Tgt Ion:128 Resp: 98061
Ion Ratio Lower Upper
128 100
129 12.1 8.7 13.1
127 13.8 10.2 15.2





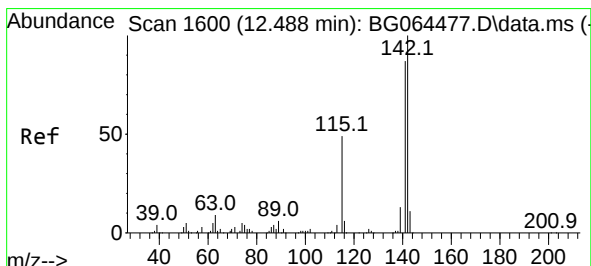
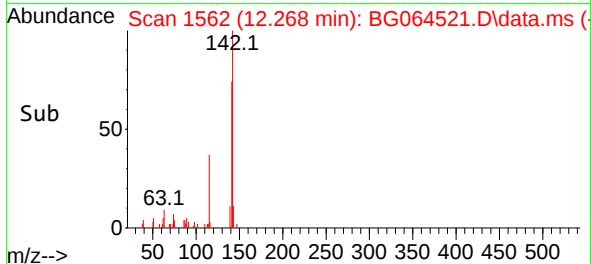
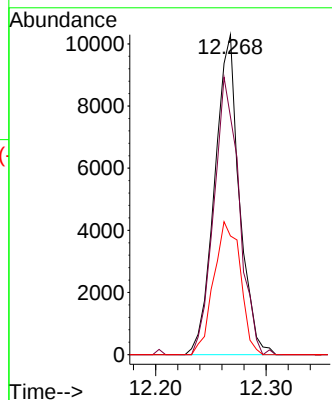
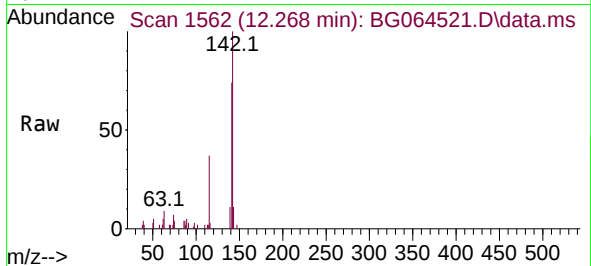
#37
2-Methylnaphthalene
Concen: 7.026 ng m
RT: 12.268 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

Instrument :
BNA_G
ClientSampleId :
WCS-TP2

Tgt Ion:142 Resp: 15978
Ion Ratio Lower Upper
142 100
141 74.3 68.7 103.1
115 37.1 39.3 58.9

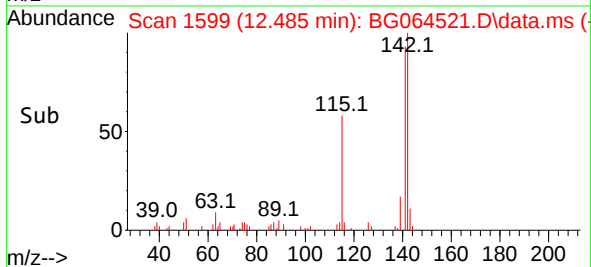
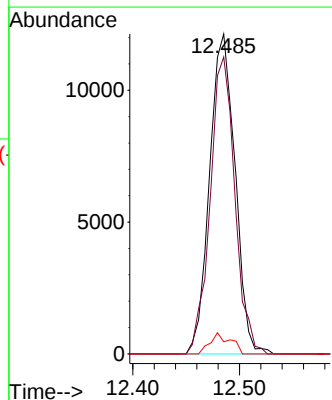
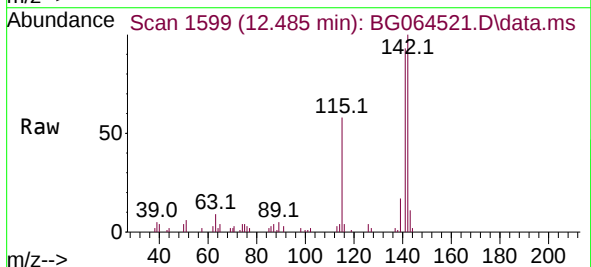
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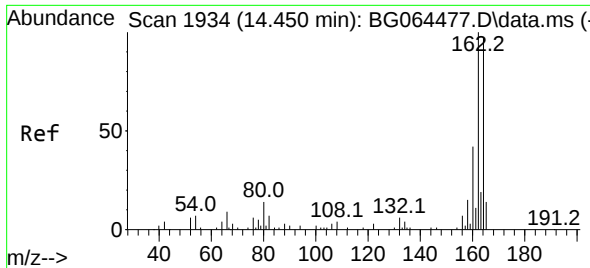
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#38
1-Methylnaphthalene
Concen: 8.882 ng
RT: 12.485 min Scan# 1599
Delta R.T. -0.000 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

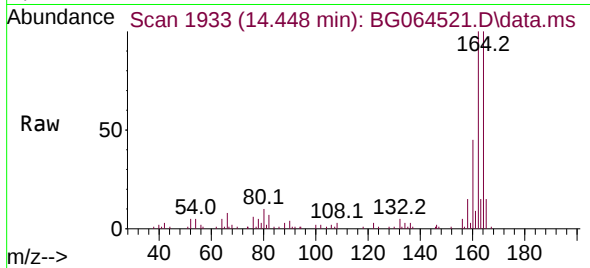
Tgt Ion:142 Resp: 20143
Ion Ratio Lower Upper
142 100
141 92.8 69.8 104.8
116 3.8 4.6 6.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.448 min Scan# 1933
Delta R.T. -0.000 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

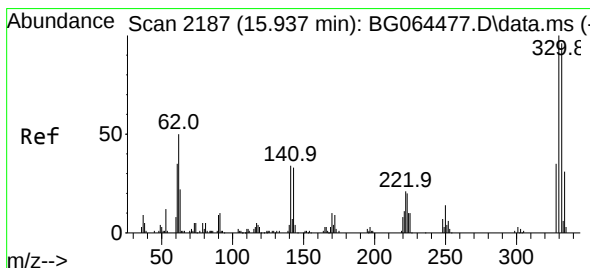
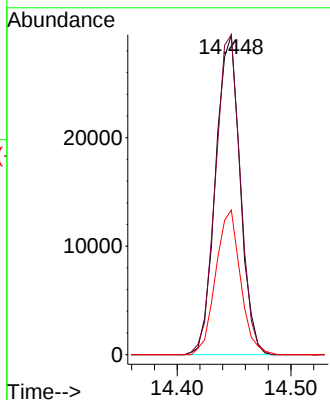
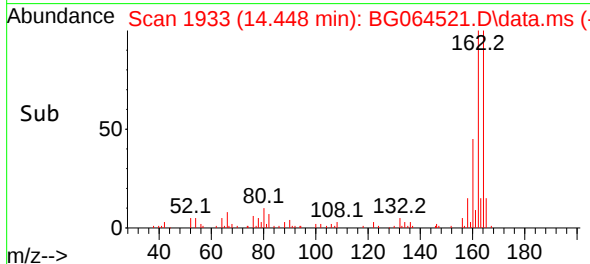
Instrument :
BNA_G
ClientSampleId :
WCS-TP2



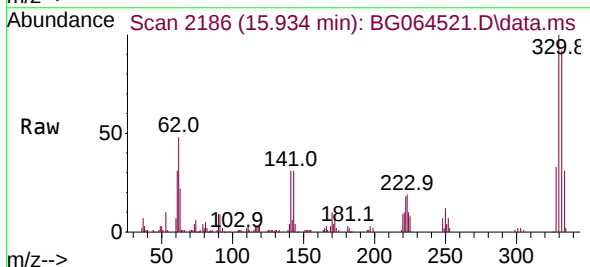
Tgt Ion:164 Resp: 44053
Ion Ratio Lower Upper
164 100
162 100.2 82.2 123.2
160 45.3 34.3 51.5

Manual Integrations
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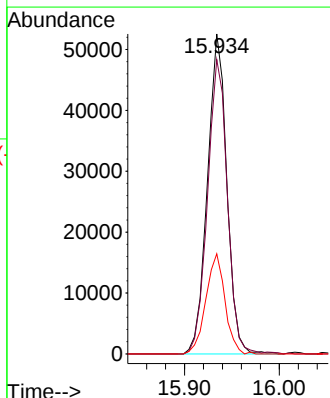
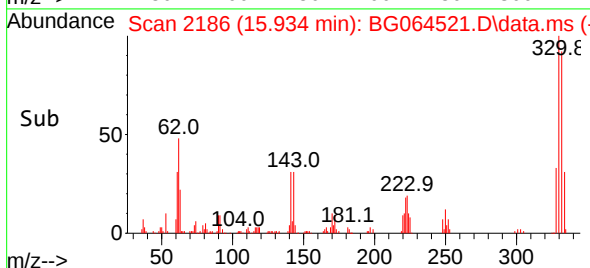
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025

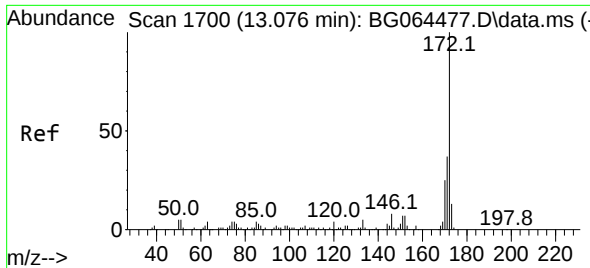


#42
2,4,6-Tribromophenol
Concen: 93.588 ng
RT: 15.934 min Scan# 2186
Delta R.T. -0.000 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20



Tgt Ion:330 Resp: 74732
Ion Ratio Lower Upper
330 100
332 94.2 77.4 116.0
141 30.8 25.8 38.6





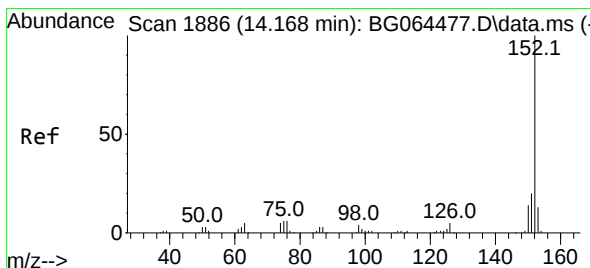
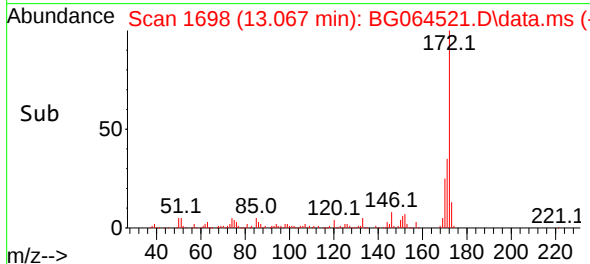
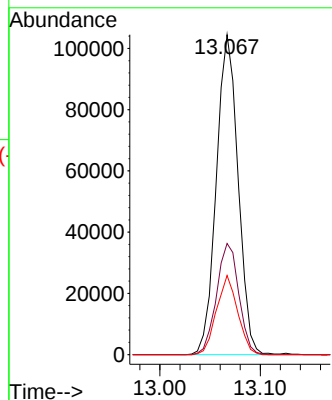
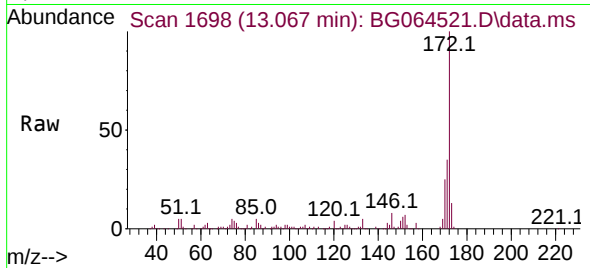
#45
2-Fluorobiphenyl
Concen: 52.685 ng
RT: 13.067 min Scan# 1698
Delta R.T. -0.000 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

Instrument :
BNA_G
ClientSampleId :
WCS-TP2

Tgt Ion:172 Resp: 157452
Ion Ratio Lower Upper
172 100
171 34.7 29.6 44.4
170 24.7 20.2 30.2

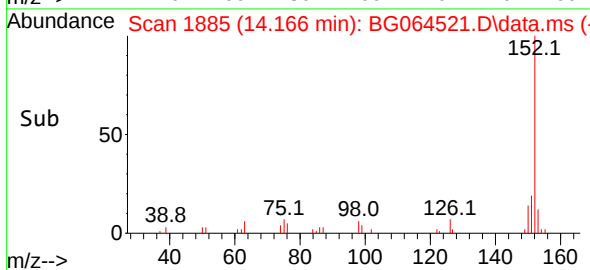
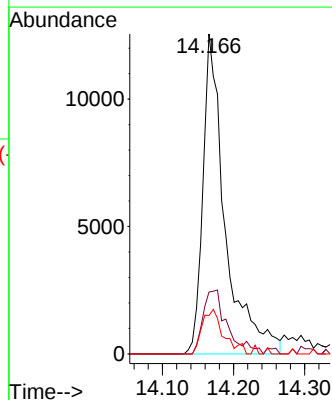
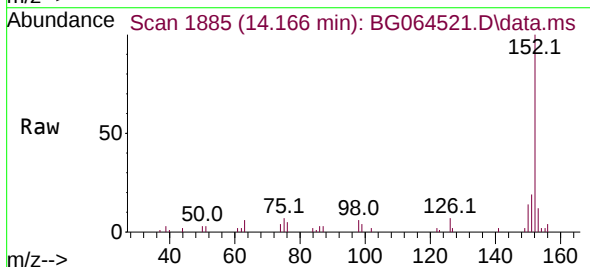
Manual Integrations
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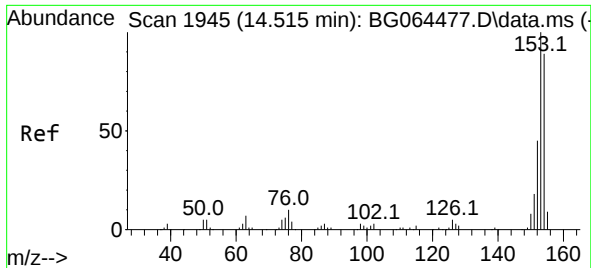
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#49
Acenaphthylene
Concen: 7.777 ng
RT: 14.166 min Scan# 1885
Delta R.T. -0.006 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

Tgt Ion:152 Resp: 27310
Ion Ratio Lower Upper
152 100
151 19.3 15.8 23.6
153 12.0 10.6 15.8





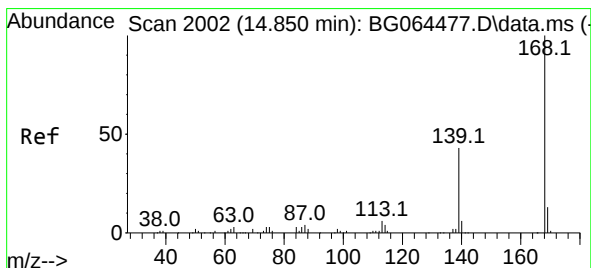
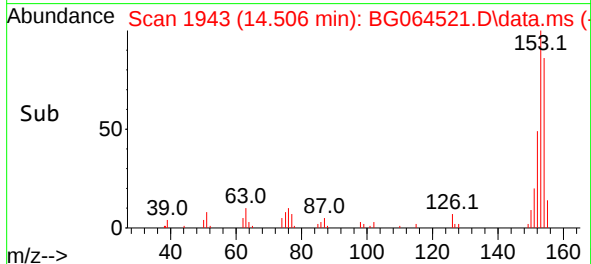
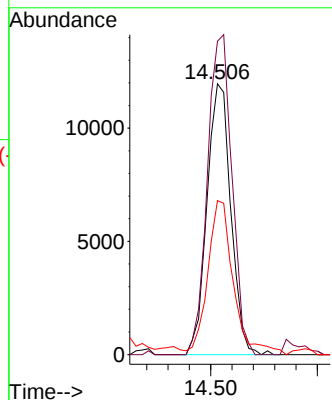
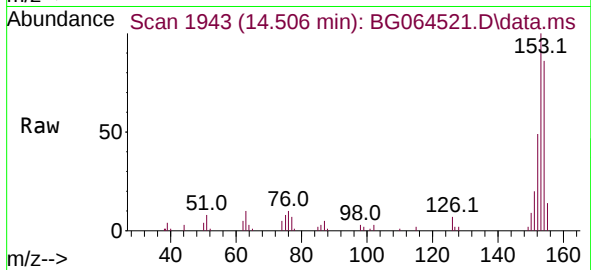
#52
Acenaphthene
Concen: 7.626 ng
RT: 14.506 min Scan# 1945
Delta R.T. -0.006 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

Instrument :
BNA_G
ClientSampleId :
WCS-TP2

Tgt Ion:154 Resp: 18605
Ion Ratio Lower Upper
154 100
153 115.7 90.2 135.4
152 56.9 40.2 60.4

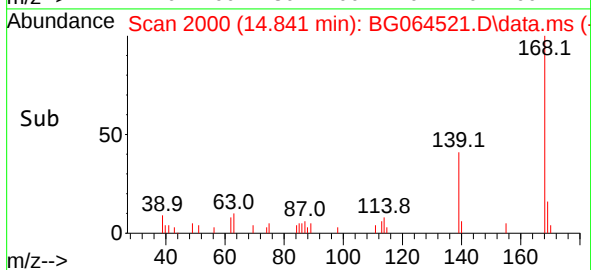
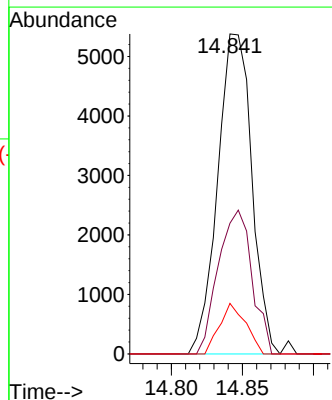
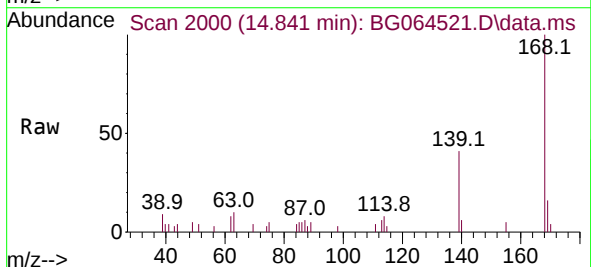
Manual Integrations
APPROVED

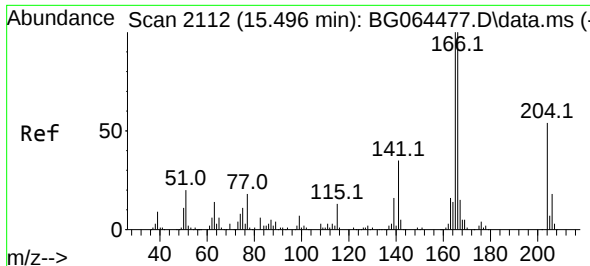
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#55
Dibenzofuran
Concen: 2.232 ng
RT: 14.841 min Scan# 2000
Delta R.T. -0.006 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

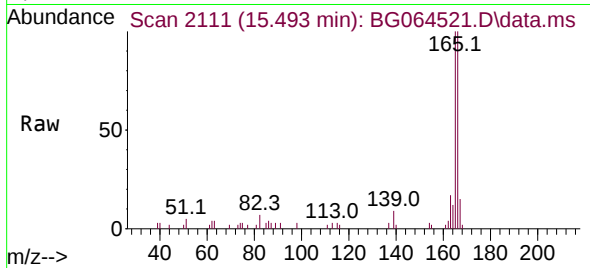
Tgt Ion:168 Resp: 8991
Ion Ratio Lower Upper
168 100
139 40.9 34.0 51.0
169 15.8 10.2 15.2#





#58
 Fluorene
 Concen: 4.351 ng
 RT: 15.493 min Scan# 2111
 Delta R.T. -0.000 min
 Lab File: BG064521.D
 Acq: 16 Oct 2025 18:20

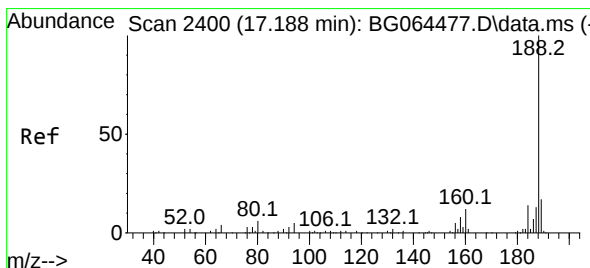
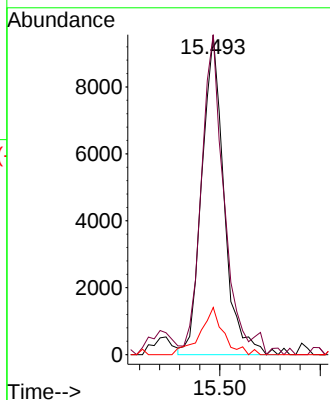
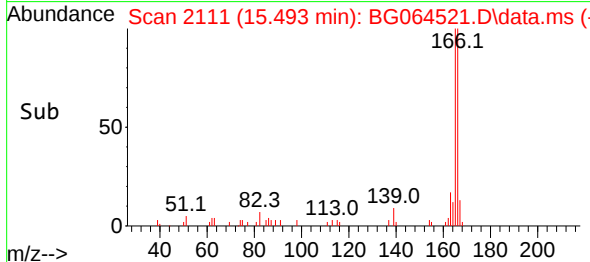
Instrument :
 BNA_G
 ClientSampleId :
 WCS-TP2



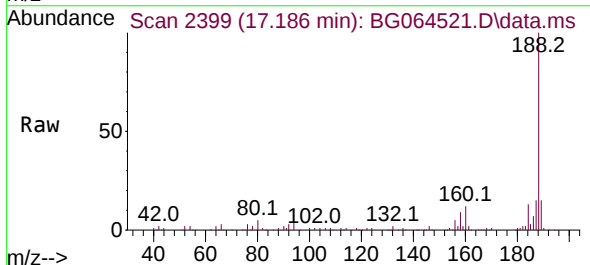
Tgt Ion:166 Resp: 14573
 Ion Ratio Lower Upper
 166 100
 165 100.1 79.8 119.6
 167 14.7 11.7 17.5

Manual Integrations
 APPROVED

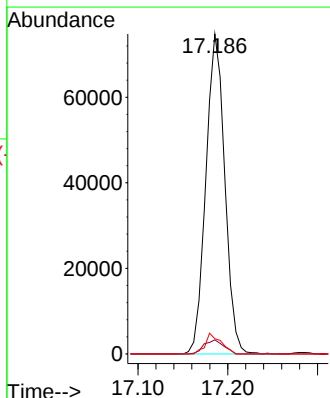
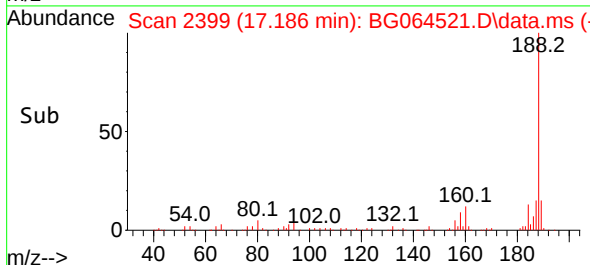
Reviewed By :Rahul Chavli 10/17/2025
 Supervised By :Jagrut Upadhyay 10/17/2025

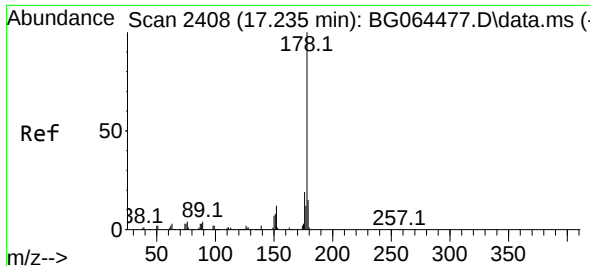


#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.186 min Scan# 2399
 Delta R.T. -0.000 min
 Lab File: BG064521.D
 Acq: 16 Oct 2025 18:20



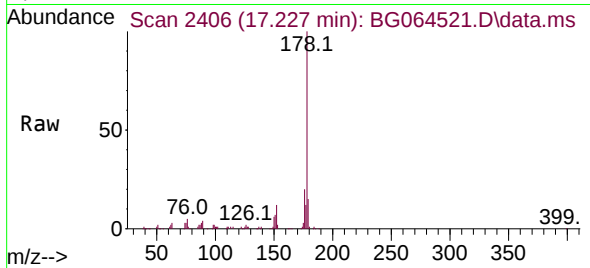
Tgt Ion:188 Resp: 109460
 Ion Ratio Lower Upper
 188 100
 94 4.4 3.7 5.5
 80 4.7 4.5 6.7





#71
Phenanthrene
Concen: 24.625 ng
RT: 17.227 min Scan# 2406
Delta R.T. -0.000 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

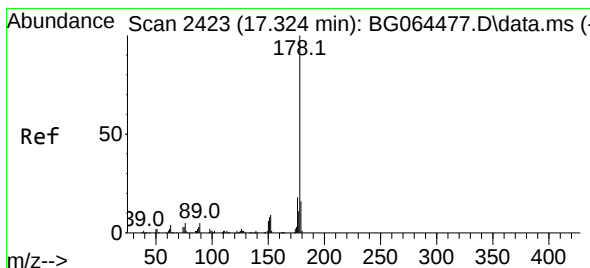
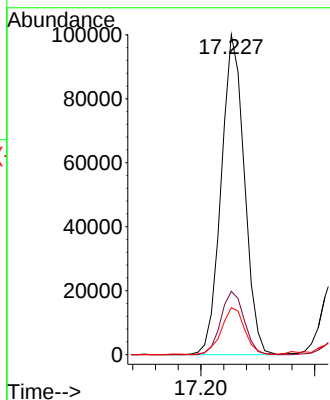
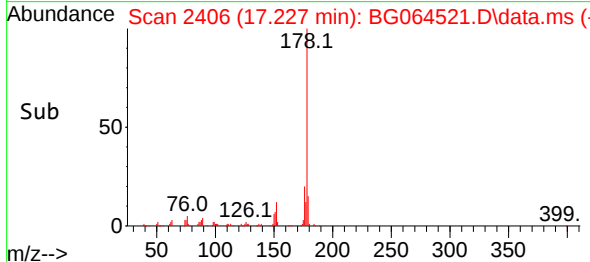
Instrument :
BNA_G
ClientSampleId :
WCS-TP2



Tgt Ion:178 Resp: 140962
Ion Ratio Lower Upper
178 100
176 19.8 15.2 22.8
179 14.7 11.8 17.6

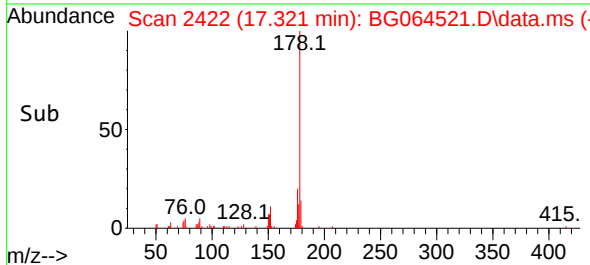
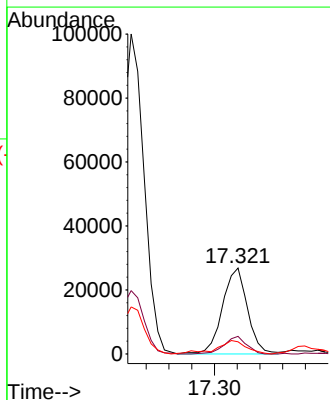
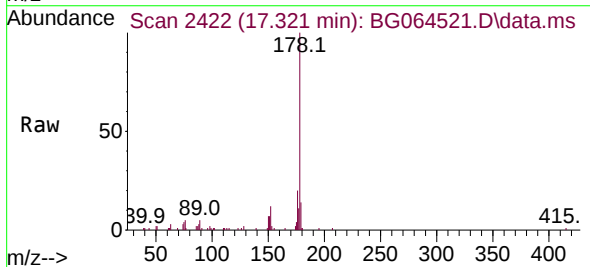
Manual Integrations
APPROVED

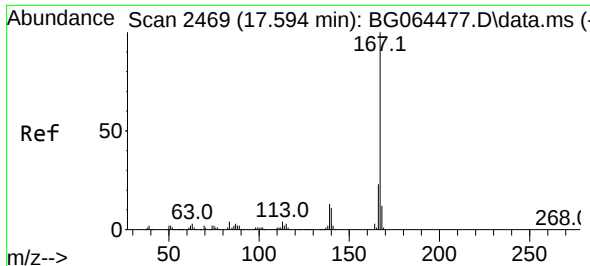
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#72
Anthracene
Concen: 7.118 ng
RT: 17.321 min Scan# 2422
Delta R.T. -0.000 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

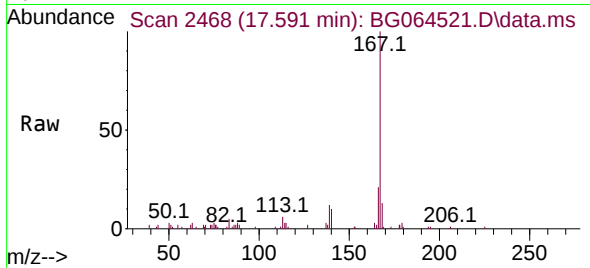
Tgt Ion:178 Resp: 40878
Ion Ratio Lower Upper
178 100
176 20.5 14.6 21.8
179 14.2 12.5 18.7





#73
 Carbazole
 Concen: 4.640 ng
 RT: 17.591 min Scan# 2468
 Delta R.T. -0.000 min
 Lab File: BG064521.D
 Acq: 16 Oct 2025 18:20

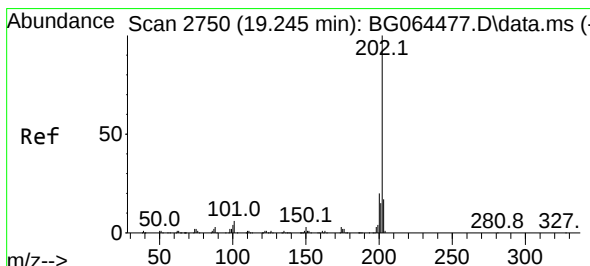
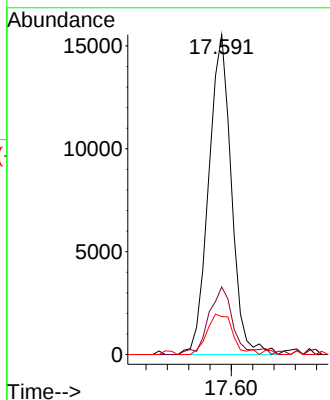
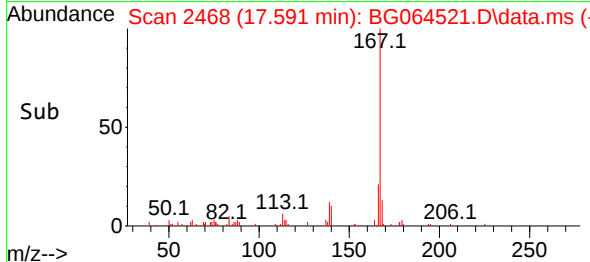
Instrument :
 BNA_G
 ClientSampleId :
 WCS-TP2



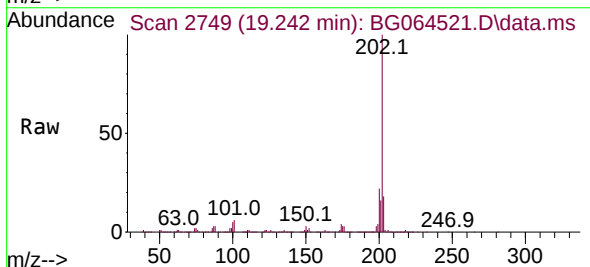
Tgt Ion:167 Resp: 23034
 Ion Ratio Lower Upper
 167 100
 166 21.1 18.6 27.8
 139 11.9 10.2 15.4

Manual Integrations
 APPROVED

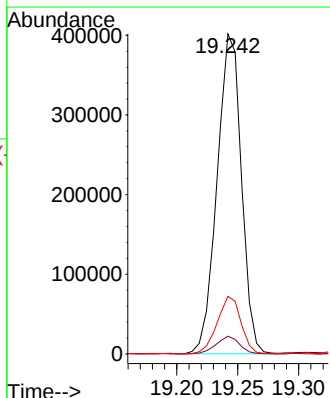
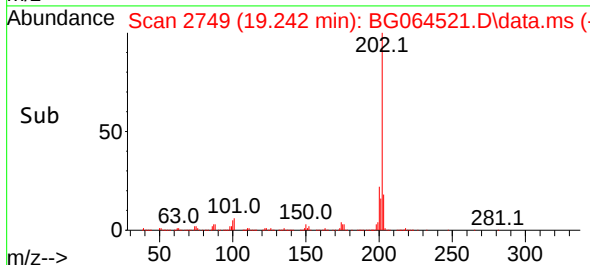
Reviewed By :Rahul Chavli 10/17/2025
 Supervised By :Jagrut Upadhyay 10/17/2025

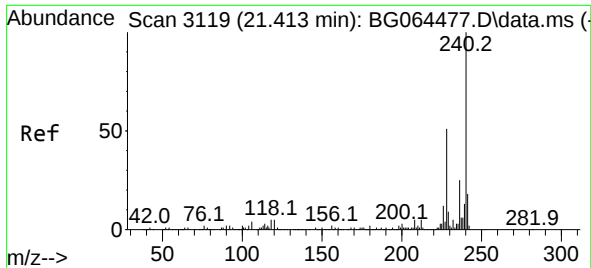


#75
 Fluoranthene
 Concen: 81.421 ng
 RT: 19.242 min Scan# 2749
 Delta R.T. 0.005 min
 Lab File: BG064521.D
 Acq: 16 Oct 2025 18:20



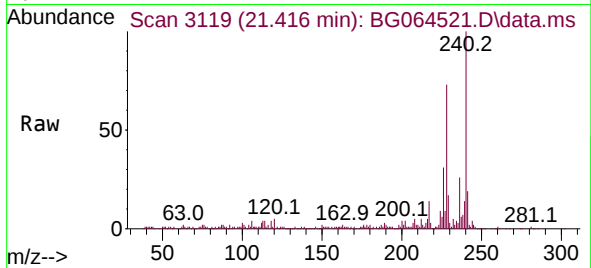
Tgt Ion:202 Resp: 556803
 Ion Ratio Lower Upper
 202 100
 101 5.5 0.0 25.7
 203 18.0 0.0 36.6





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.416 min Scan# 3119
Delta R.T. 0.006 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

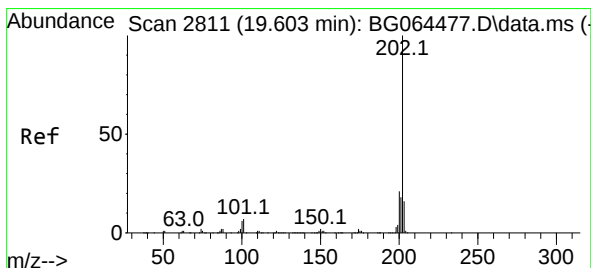
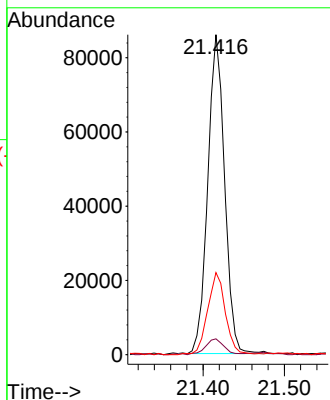
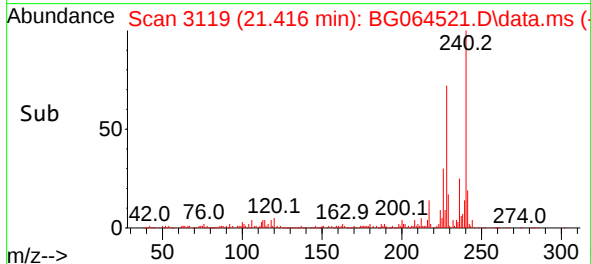
Instrument :
BNA_G
ClientSampleId :
WCS-TP2



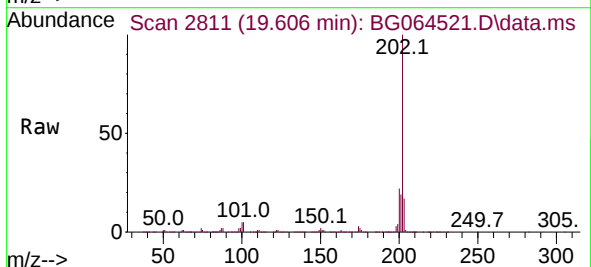
Tgt Ion:240 Resp: 123896
Ion Ratio Lower Upper
240 100
120 4.9 4.3 6.5
236 25.6 20.4 30.6

Manual Integrations
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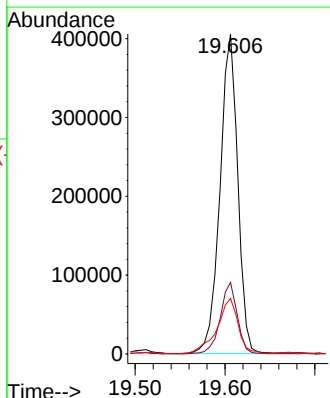
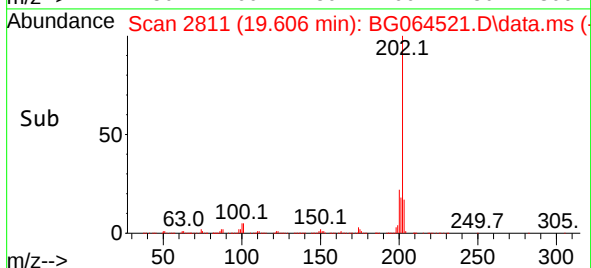
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025

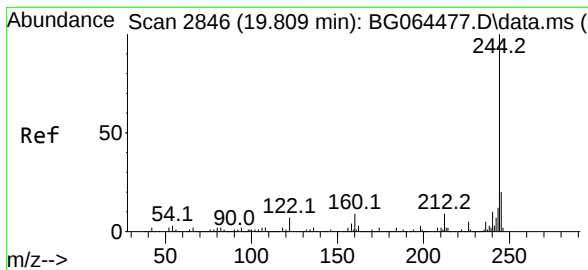


#78
Pyrene
Concen: 69.543 ng
RT: 19.606 min Scan# 2811
Delta R.T. 0.005 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20



Tgt Ion:202 Resp: 559157
Ion Ratio Lower Upper
202 100
200 22.3 17.0 25.4
203 17.3 13.0 19.4





#79

Terphenyl-d14

Concen: 47.680 ng

RT: 19.806 min Scan# 2846

Delta R.T. -0.000 min

Lab File: BG064521.D

Acq: 16 Oct 2025 18:20

Instrument :

BNA_G

ClientSampleId :

WCS-TP2

Tgt Ion:244 Resp: 312144

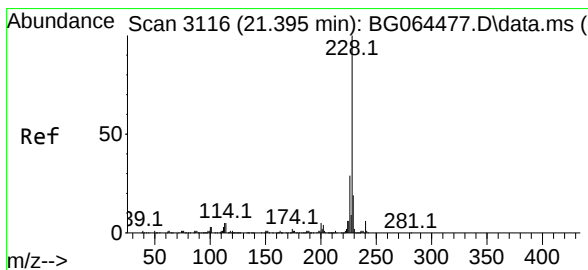
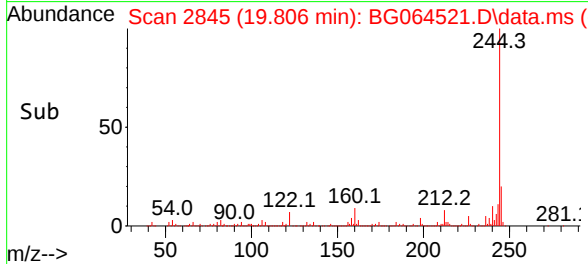
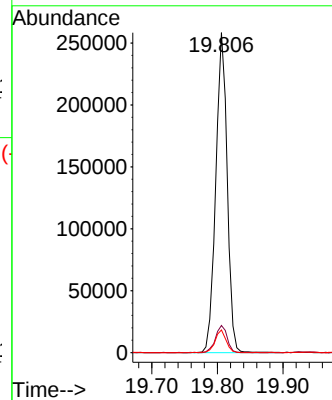
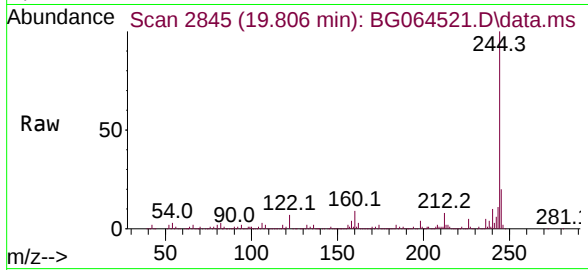
Ion	Ratio	Lower	Upper
244	100		
212	8.5	7.0	10.6
122	7.1	5.6	8.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/17/2025

Supervised By :Jagrut Upadhyay 10/17/2025



#81

Benzo(a)anthracene

Concen: 55.191 ng

RT: 21.398 min Scan# 3116

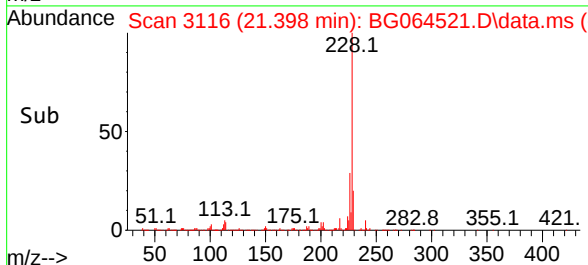
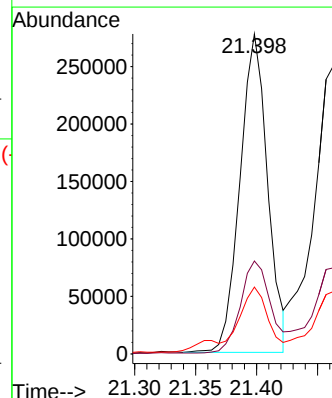
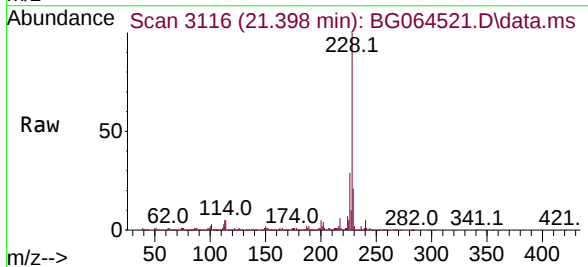
Delta R.T. 0.005 min

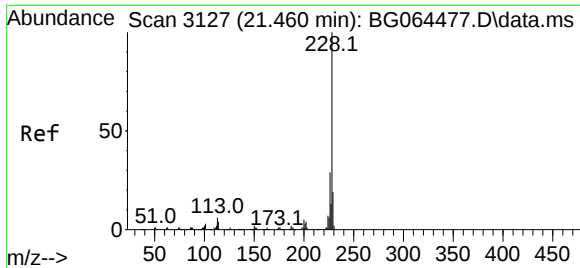
Lab File: BG064521.D

Acq: 16 Oct 2025 18:20

Tgt Ion:228 Resp: 436605

Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.8	34.2
229	20.9	15.2	22.8





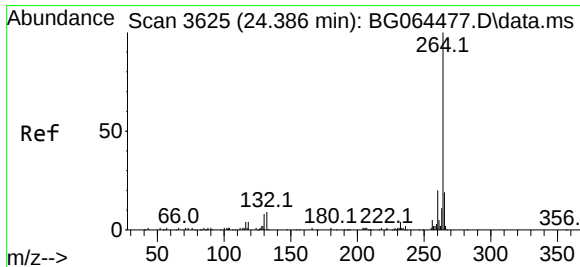
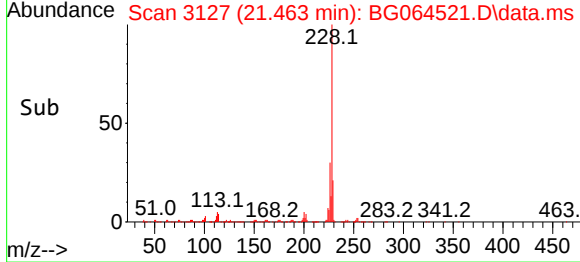
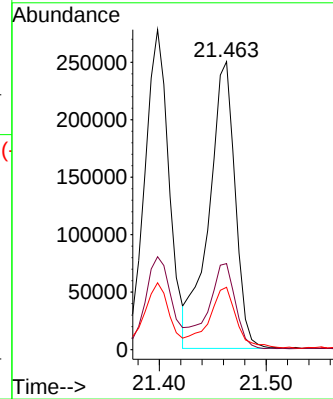
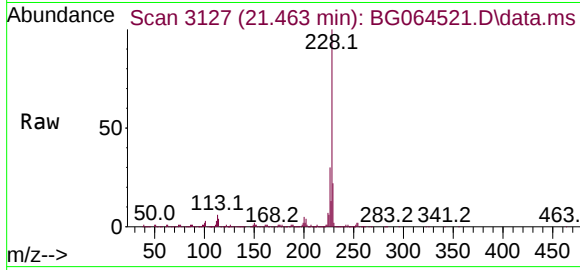
#83
Chrysene
Concen: 57.115 ng m
RT: 21.463 min Scan# 3127
Delta R.T. 0.011 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

Instrument :
BNA_G
ClientSampleId :
WCS-TP2

Tgt Ion:228 Resp: 428496
Ion Ratio Lower Upper
228 100
226 29.9 22.8 34.2
229 21.7 15.4 23.0

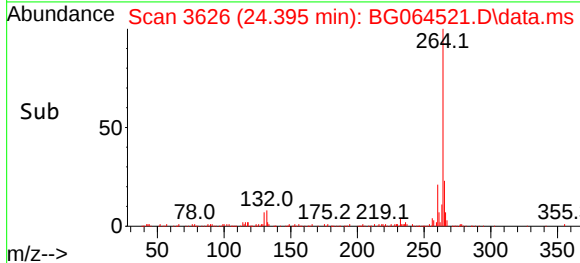
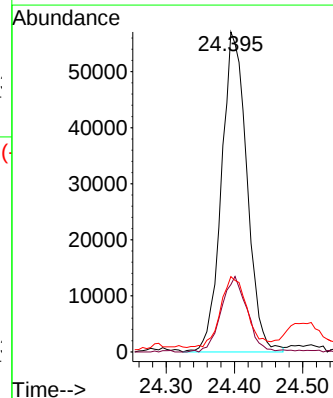
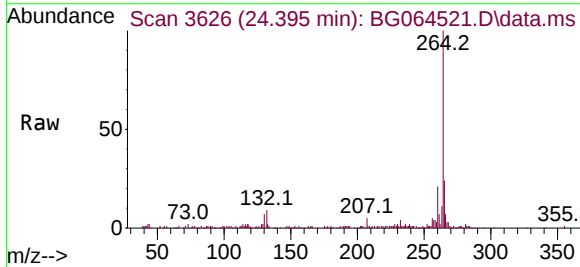
Manual Integrations
APPROVED

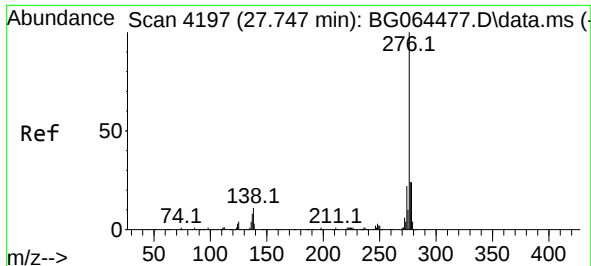
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.395 min Scan# 3626
Delta R.T. 0.005 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

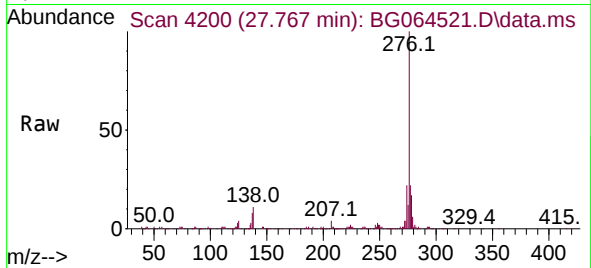
Tgt Ion:264 Resp: 146947
Ion Ratio Lower Upper
264 100
260 21.1 16.2 24.4
265 23.5 15.0 22.4#





#87
Indeno(1,2,3-cd)pyrene
Concen: 31.275 ng
RT: 27.767 min Scan# 4197
Delta R.T. 0.035 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20

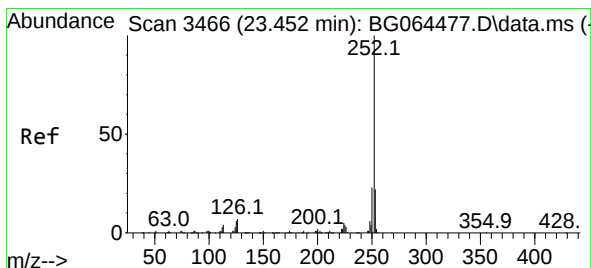
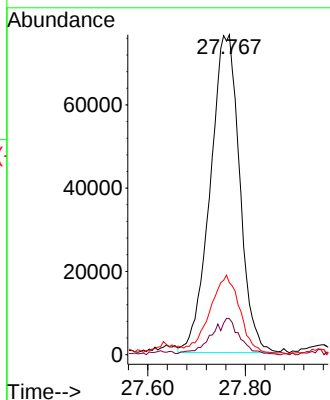
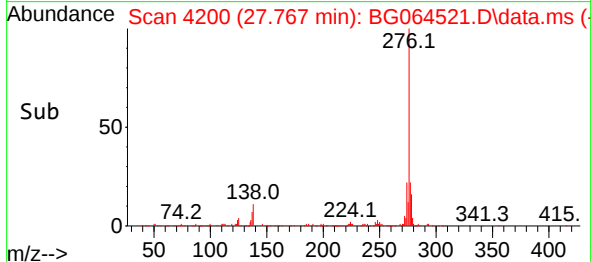
Instrument :
BNA_G
ClientSampleId :
WCS-TP2



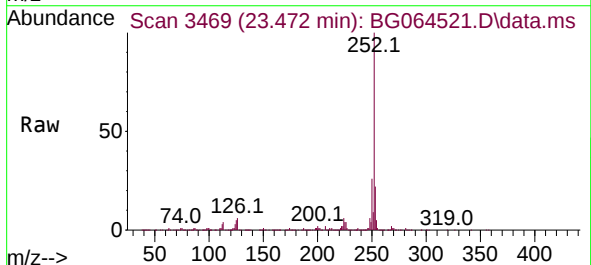
Tgt Ion:276 Resp: 319889
Ion Ratio Lower Upper
276 100
138 11.1 10.8 16.2
277 25.0 20.3 30.5

Manual Integrations
APPROVED

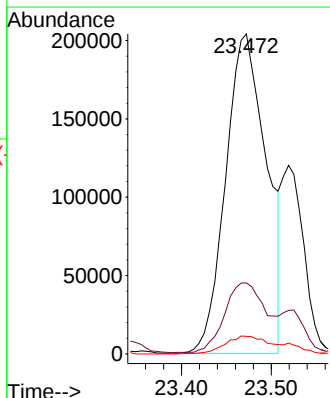
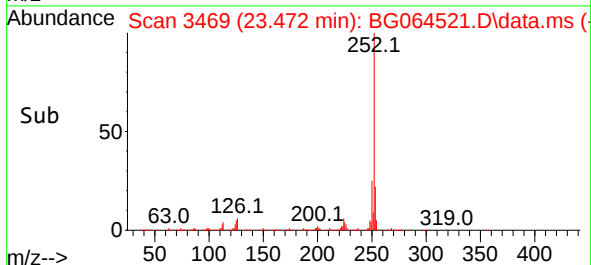
Reviewed By :Rahul Chavli 10/17/2025
Supervised By :Jagrut Upadhyay 10/17/2025

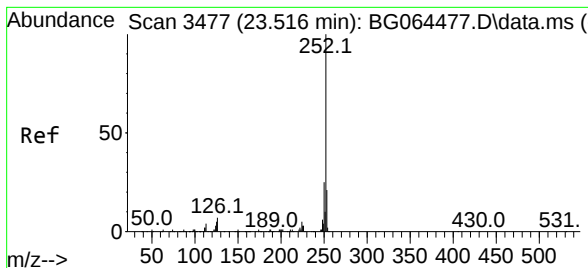


#88
Benzo(b)fluoranthene
Concen: 77.126 ng
RT: 23.472 min Scan# 3469
Delta R.T. 0.023 min
Lab File: BG064521.D
Acq: 16 Oct 2025 18:20



Tgt Ion:252 Resp: 644760
Ion Ratio Lower Upper
252 100
253 22.2 17.5 26.3
125 5.5 4.5 6.7





#89

Benzo(k)fluoranthene

Concen: 23.761 ng m

RT: 23.519 min Scan# 3477

Delta R.T. 0.011 min

Lab File: BG064521.D

Acq: 16 Oct 2025 18:20

Instrument :

BNA_G

ClientSampleId :

WCS-TP2

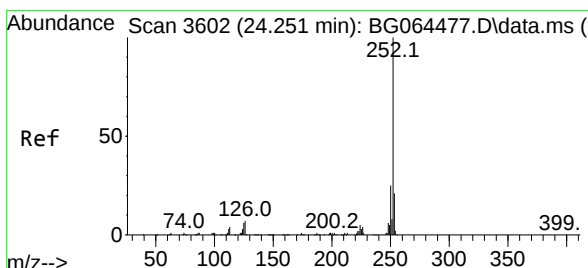
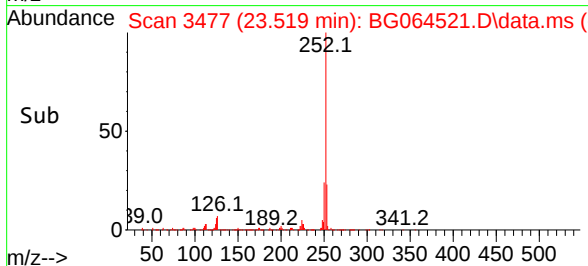
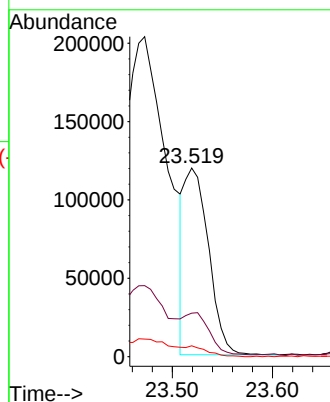
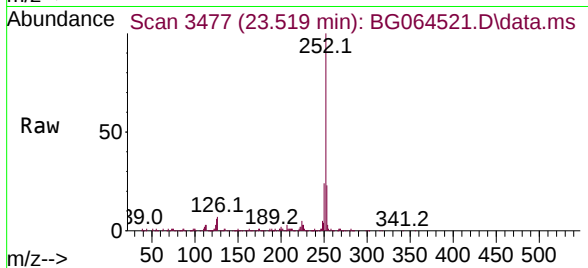
Tgt Ion:252 Resp: 200052
 Ion Ratio Lower Upper
 252 100
 253 23.1 17.4 26.2
 125 5.8 4.0 6.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/17/2025

Supervised By :Jagrut Upadhyay 10/17/2025



#90

Benzo(a)pyrene

Concen: 60.485 ng

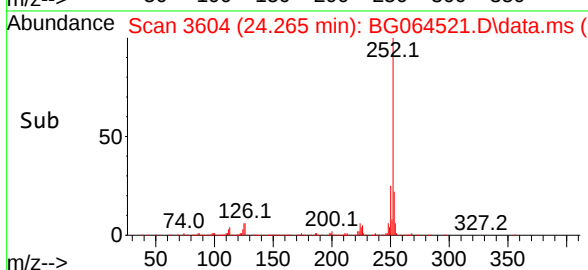
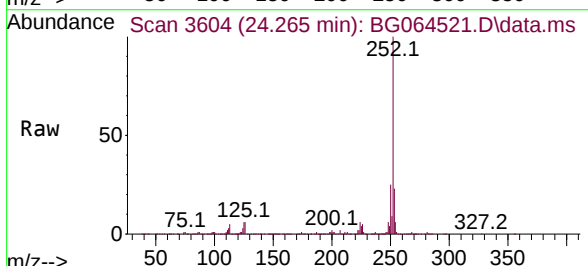
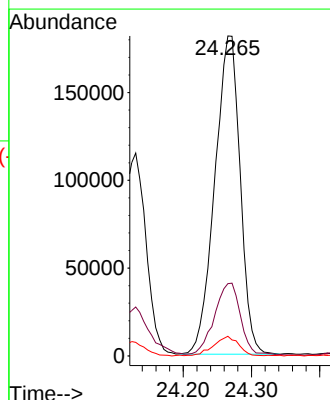
RT: 24.265 min Scan# 3604

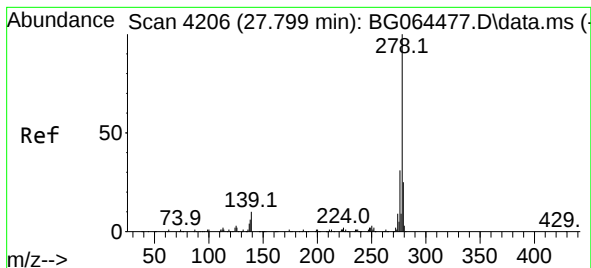
Delta R.T. 0.017 min

Lab File: BG064521.D

Acq: 16 Oct 2025 18:20

Tgt Ion:252 Resp: 466021
 Ion Ratio Lower Upper
 252 100
 253 22.6 17.1 25.7
 125 6.1 4.6 6.8





#91

Dibenzo(a,h)anthracene

Concen: 9.823 ng

RT: 27.785 min Scan# 41

Delta R.T. 0.005 min

Lab File: BG064521.D

Acq: 16 Oct 2025 18:20

Instrument :

BNA_G

ClientSampleId :

WCS-TP2

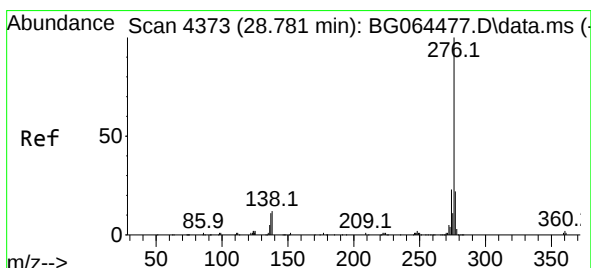
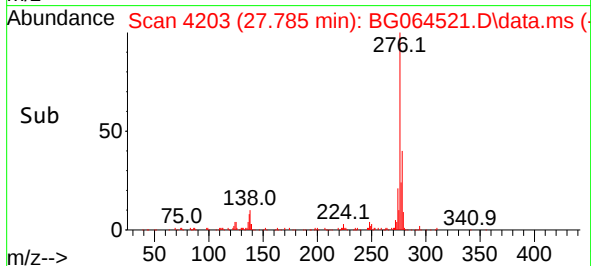
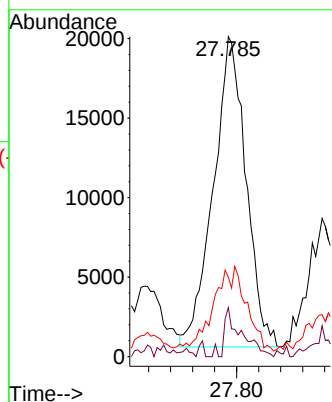
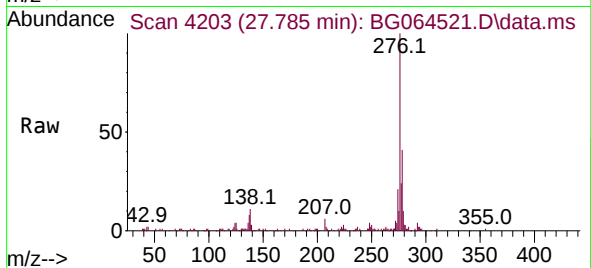
Tgt Ion:278 Resp: 80349
 Ion Ratio Lower Upper
 278 100
 139 15.3 8.2 12.2
 279 24.8 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/17/2025

Supervised By :Jagrut Upadhyay 10/17/2025



#92

Benzo(g,h,i)perylene

Concen: 36.857 ng

RT: 28.807 min Scan# 4377

Delta R.T. 0.041 min

Lab File: BG064521.D

Acq: 16 Oct 2025 18:20

Tgt Ion:276 Resp: 292975
 Ion Ratio Lower Upper
 276 100
 277 22.4 17.8 26.6
 138 10.7 9.4 14.0

