

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090825\
 Data File : BG064313.D
 Acq On : 8 Sep 2025 19:03
 Operator : RC/JU
 Sample : Q3031-01 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PL-01-09052025

Manual Integrations
 APPROVED

Reviewed By :Rahul
 Chavli

09/09/2025
 Supervised By :Jagrut
 Upadhyay

Quant Time: Sep 09 01:32:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 28 17:41:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.848	152	28661	20.000	ng	-0.01
21) Naphthalene-d8	10.639	136	117797	20.000	ng	#-0.01
39) Acenaphthene-d10	14.475	164	82427	20.000	ng	0.00
64) Phenanthrene-d10	17.219	188	186433	20.000	ng	# 0.00
76) Chrysene-d12	21.455	240	212502	20.000	ng	0.00
86) Perylene-d12	24.469	264	234153	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.439	112	28959	18.127	ng	0.00
7) Phenol-d6	7.019	99	40079	18.262	ng	-0.01
23) Nitrobenzene-d5	8.999	82	26514	12.553	ng	-0.02
42) 2,4,6-Tribromophenol	15.962	330	25120	23.008	ng	-0.01
45) 2-Fluorobiphenyl	13.094	172	58343	10.804	ng	-0.02
79) Terphenyl-d14	19.834	244	114094	11.202	ng	-0.01
Target Compounds						
						Qvalue
38) 1-Methylnaphthalene	12.513	142	10352	2.308	ng	86
49) Acenaphthylene	14.193	152	33065	4.956	ng	95
52) Acenaphthene	14.534	154	21125	4.487	ng	99
55) Dibenzofuran	14.875	168	48111	6.496	ng	# 97
58) Fluorene	15.521	166	91850	15.132	ng	99
71) Phenanthrene	17.266	178	1084799	110.321	ng	99
72) Anthracene	17.348	178	263055	26.299	ng	98
73) Carbazole	17.619	167	42879	4.866	ng	# 88
75) Fluoranthene	19.281	202	2136773	184.812	ng	96
78) Pyrene	19.640	202	1826968	136.464	ng	97
81) Benzo(a)anthracene	21.438	228	1111785	81.779	ng	98
83) Chrysene	21.502	228	944095	72.335	ng	97
87) Indeno(1,2,3-cd)pyrene	27.865	276	539107	33.714	ng	# 98
88) Benzo(b)fluoranthene	23.529	252	1172504	88.723	ng	99
89) Benzo(k)fluoranthene	23.582	252	426011m	31.642	ng	
90) Benzo(a)pyrene	24.334	252	860373m	69.988	ng	
91) Dibenzo(a,h)anthracene	27.895	278	148777m	11.588	ng	
92) Benzo(g,h,i)perylene	28.923	276	476231	38.119	ng	# 94

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

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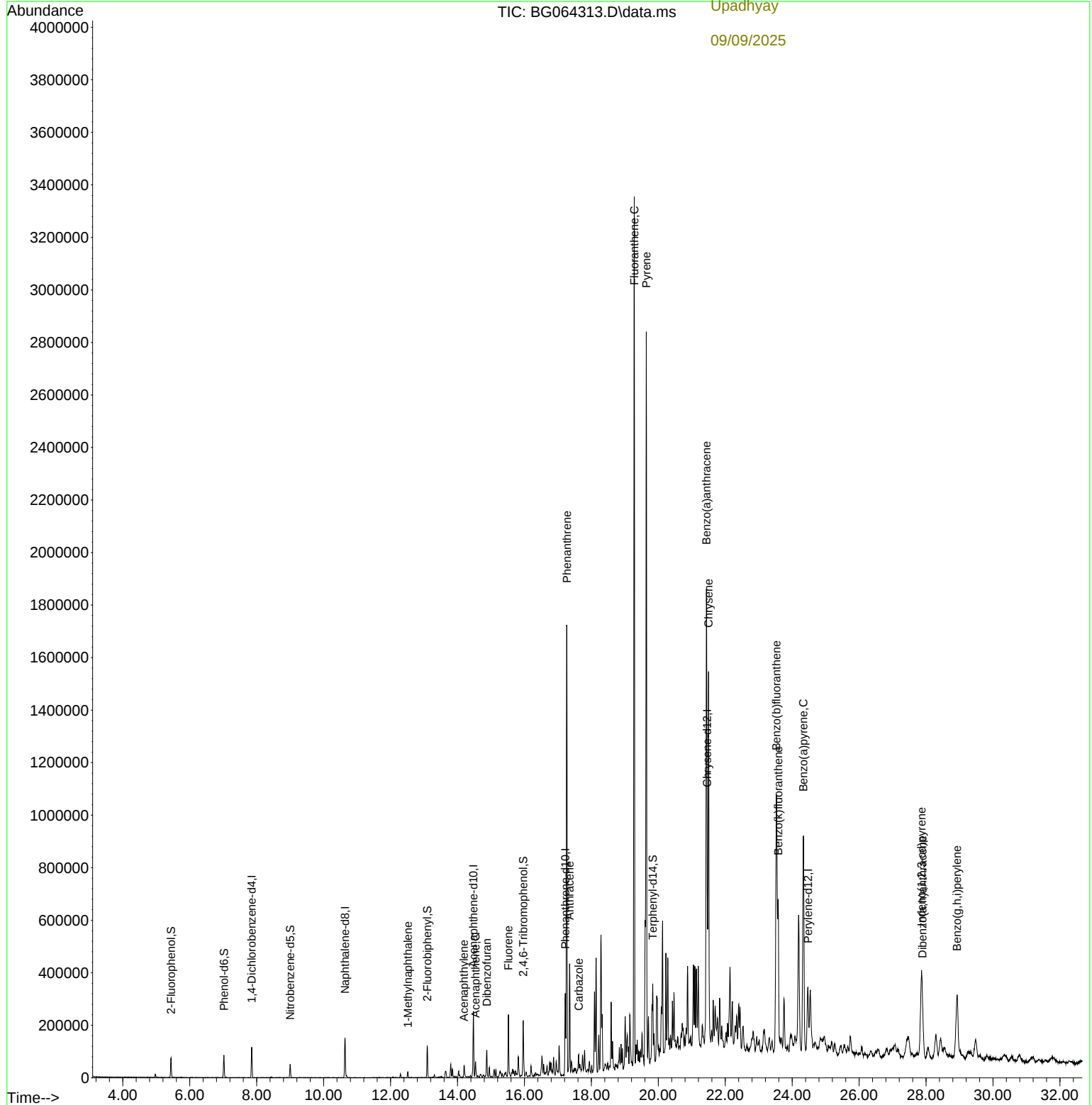
Instrument :
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PL-01-09052025

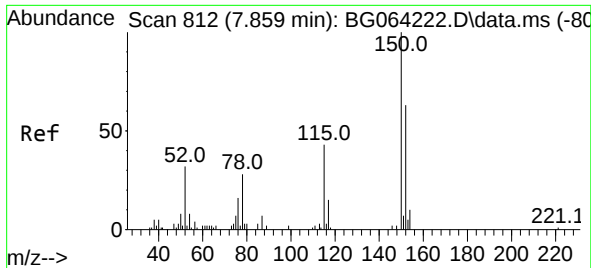
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Chavli

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Upadhyay

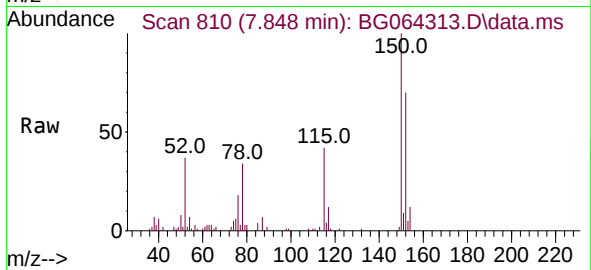
09/09/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.848 min Scan# 812
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :
BNA_G
ClientSampleId :
PL-01-09052025



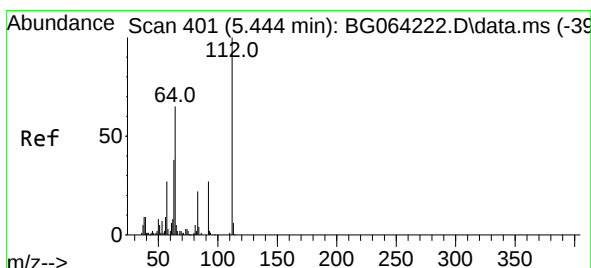
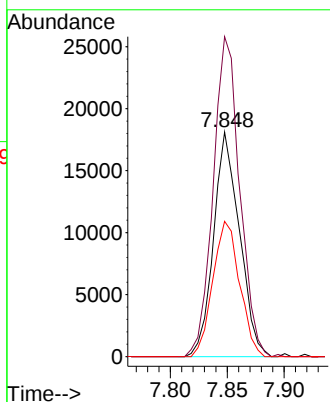
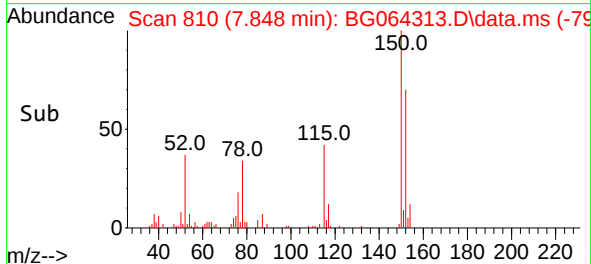
Tgt Ion:152 Resp: 2866
Ion Ratio Lower Upper
152 100
150 142.5 128.0 192.0
115 60.2 55.7 83.5

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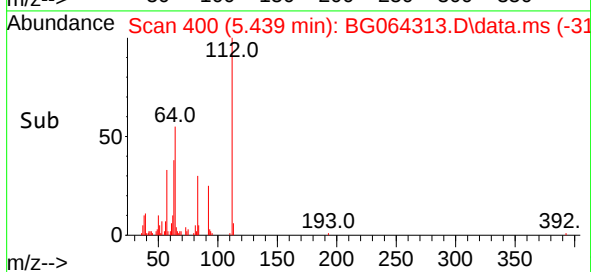
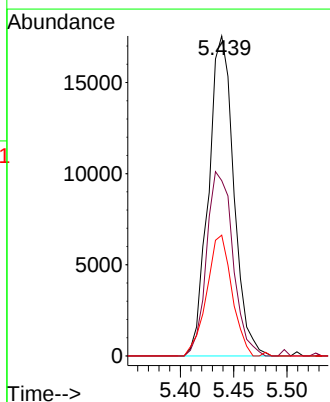
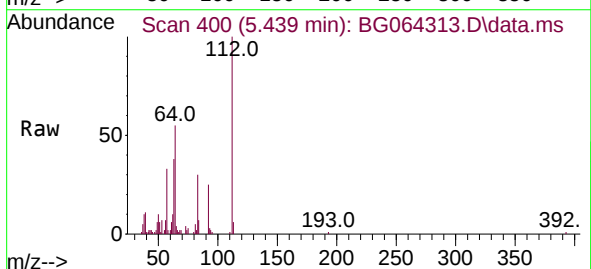
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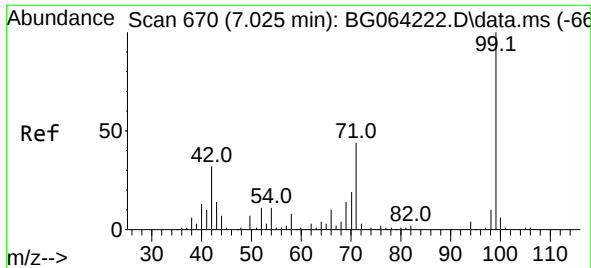
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#5
2-Fluorophenol
Concen: 18.127 ng
RT: 5.439 min Scan# 400
Delta R.T. -0.006 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

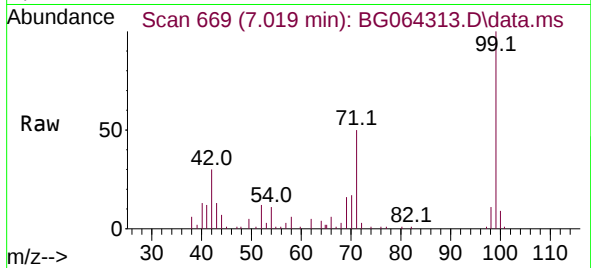
Tgt Ion:112 Resp: 28959
Ion Ratio Lower Upper
112 100
64 54.8 51.8 77.6
63 37.7 30.6 45.8





#7
Phenol-d6
Concen: 18.262 ng
RT: 7.019 min Scan# 60
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :
BNA_G
ClientSampleId :
PL-01-09052025



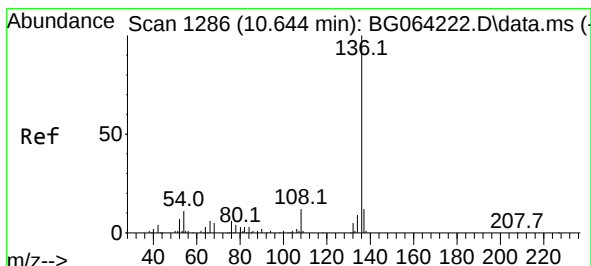
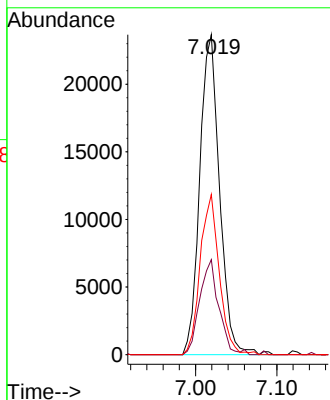
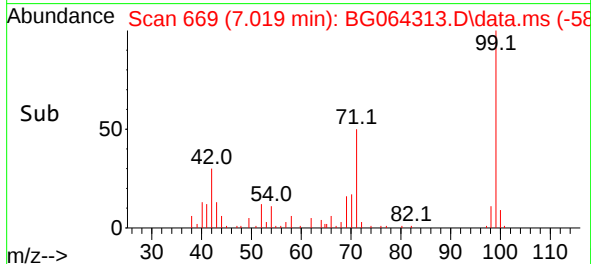
Tgt Ion: 99 Resp: 40079
Ion Ratio Lower Upper
99 100
42 29.7 25.8 38.8
71 50.0 35.2 52.8

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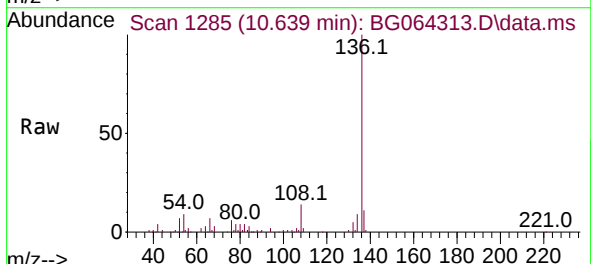
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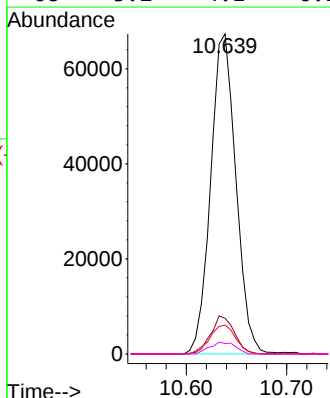
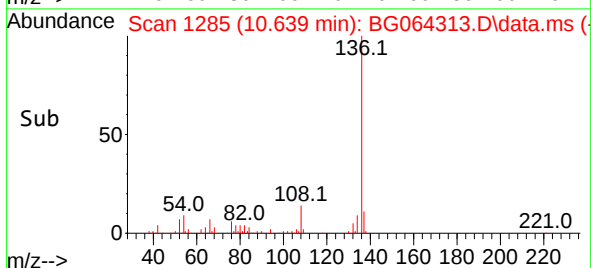
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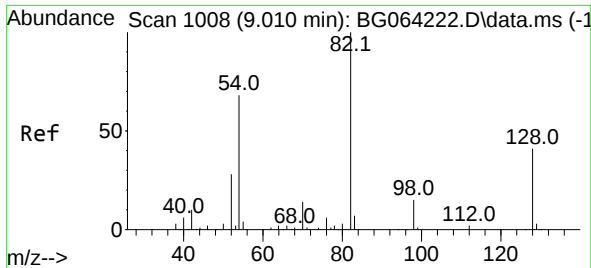


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.639 min Scan# 1285
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03



Tgt Ion:136 Resp: 117797
Ion Ratio Lower Upper
136 100
137 11.2 9.6 14.4
54 9.6 8.8 13.2
68 3.2 4.1 6.1#





#23
Nitrobenzene-d5
Concen: 12.553 ng
RT: 8.999 min Scan# 1006
Delta R.T. -0.017 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025

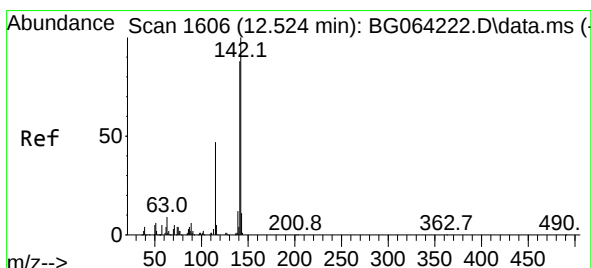
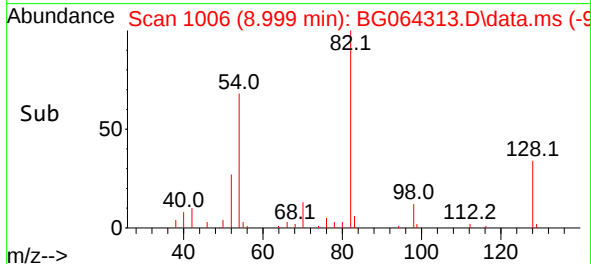
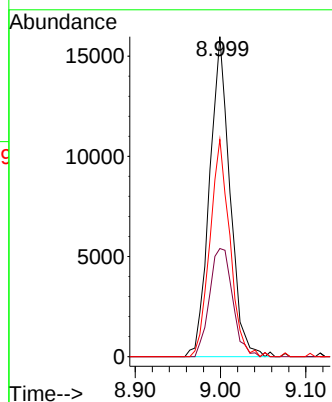
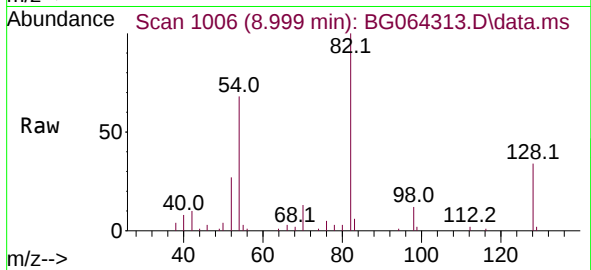
Tgt Ion: 82 Resp: 26514
Ion Ratio Lower Upper
82 100
128 33.8 32.6 48.8
54 67.9 54.7 82.1

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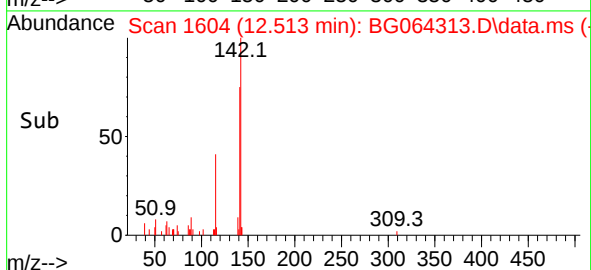
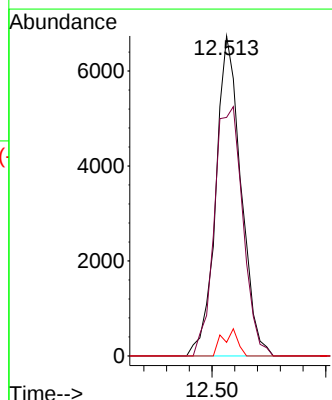
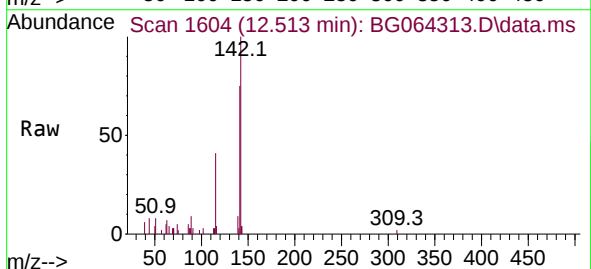
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Supervised By :Jagrut
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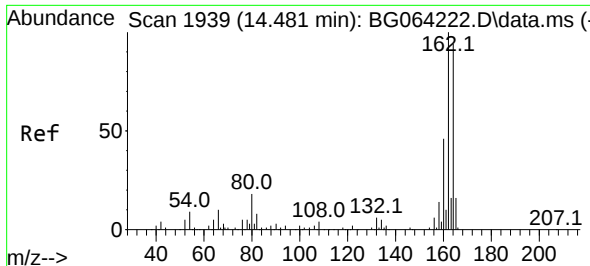
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#38
1-Methylnaphthalene
Concen: 2.308 ng
RT: 12.513 min Scan# 1604
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

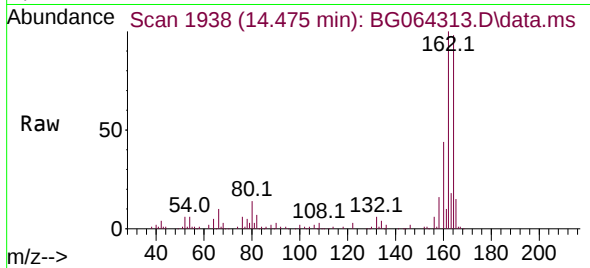
Tgt Ion:142 Resp: 10352
Ion Ratio Lower Upper
142 100
141 74.5 70.3 105.5
116 4.2 3.7 5.5





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.475 min Scan# 1939
Delta R.T. -0.006 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :
BNA_G
ClientSampleId :
PL-01-09052025



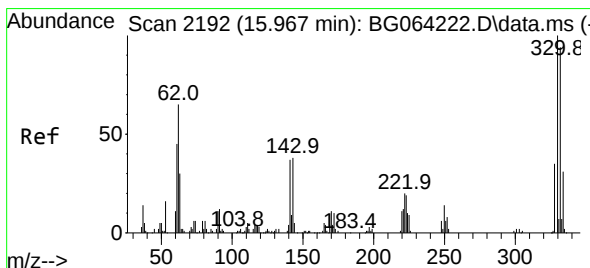
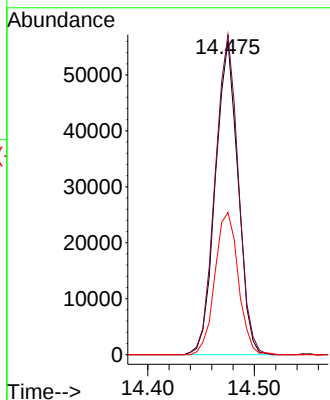
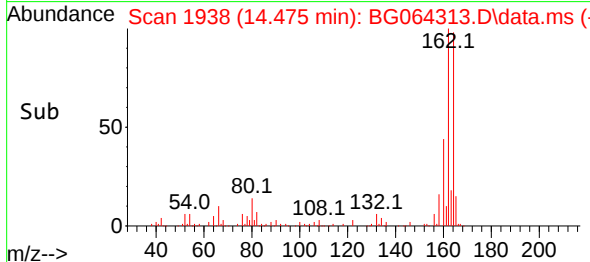
Tgt Ion:164 Resp: 8242
Ion Ratio Lower Upper
164 100
162 101.9 85.4 128.0
160 45.3 39.2 58.8

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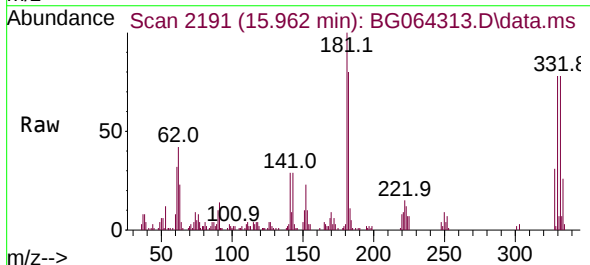
Reviewed By :Rahul
Chavli

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Supervised By :Jagrut
Upadhyay

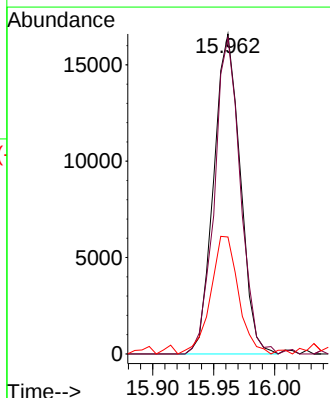
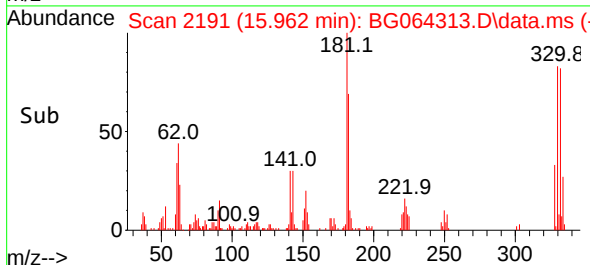
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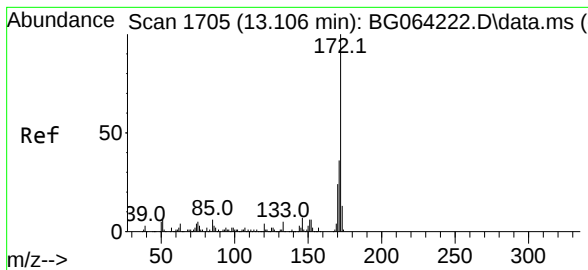


#42
2,4,6-Tribromophenol
Concen: 23.008 ng
RT: 15.962 min Scan# 2191
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03



Tgt Ion:330 Resp: 25120
Ion Ratio Lower Upper
330 100
332 96.9 77.6 116.4
141 38.4 29.8 44.6





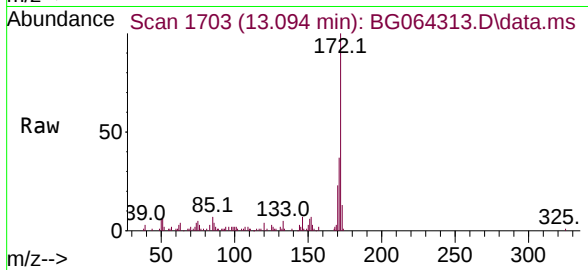
#45
2-Fluorobiphenyl
Concen: 10.804 ng
RT: 13.094 min Scan# 1705
Delta R.T. -0.017 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025



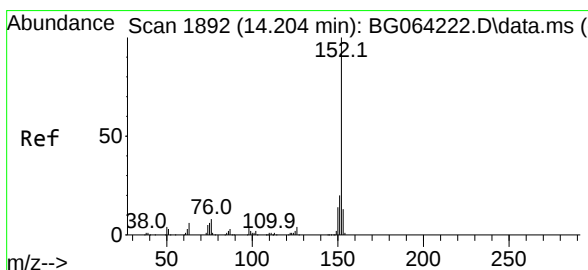
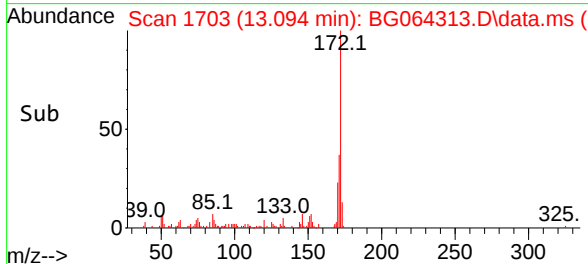
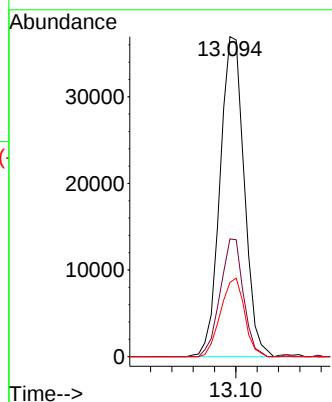
Tgt Ion:172 Resp: 58343
Ion Ratio Lower Upper
172 100
171 36.8 28.7 43.1
170 23.2 19.0 28.6

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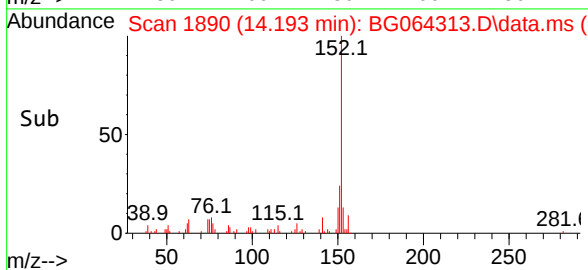
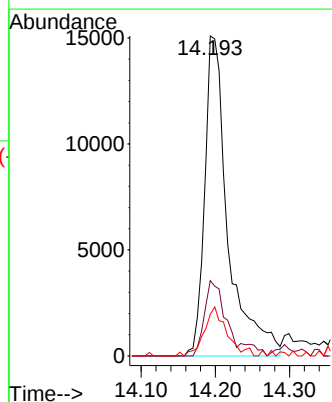
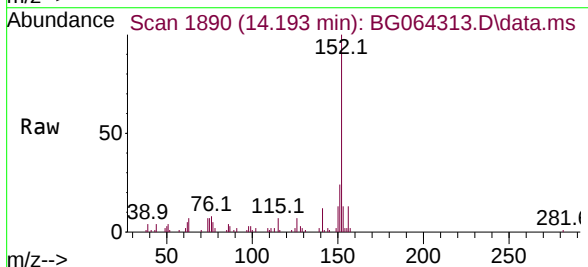
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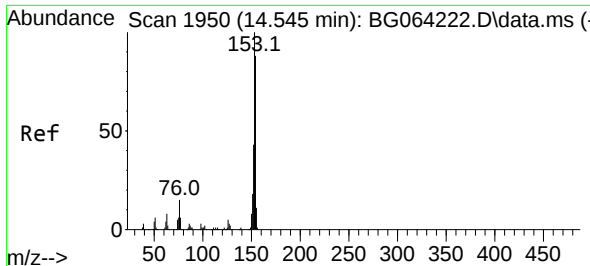
09/09/2025



#49
Acenaphthylene
Concen: 4.956 ng
RT: 14.193 min Scan# 1890
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

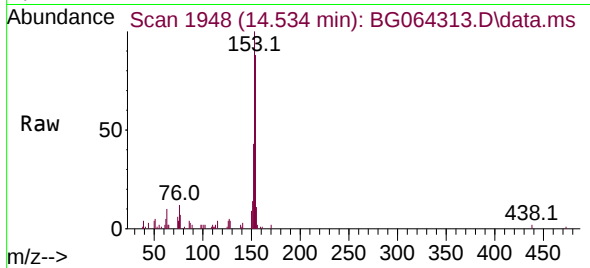
Tgt Ion:152 Resp: 33065
Ion Ratio Lower Upper
152 100
151 23.5 16.2 24.2
153 13.0 10.1 15.1





#52
Acenaphthene
Concen: 4.487 ng
RT: 14.534 min Scan# 1950
Delta R.T. -0.017 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :
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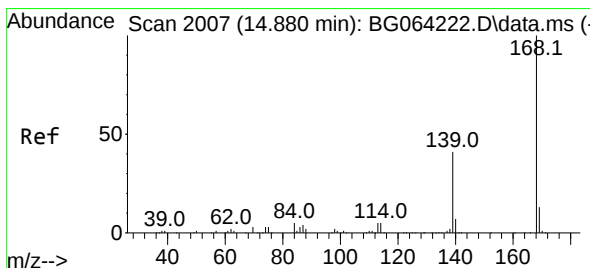
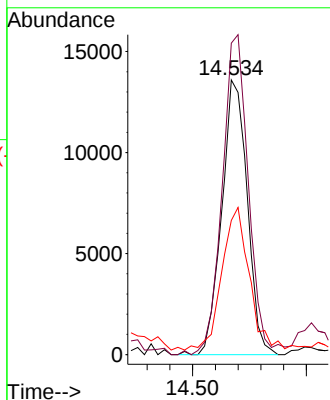
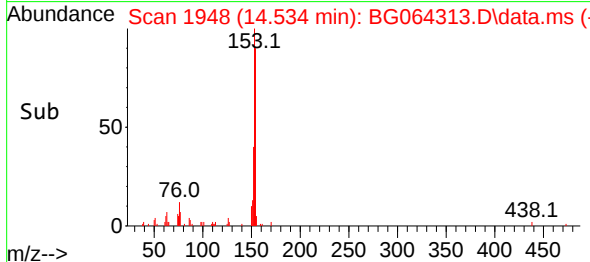
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Ion Ratio Lower Upper
154 100
153 113.4 91.1 136.7
152 48.8 39.6 59.4

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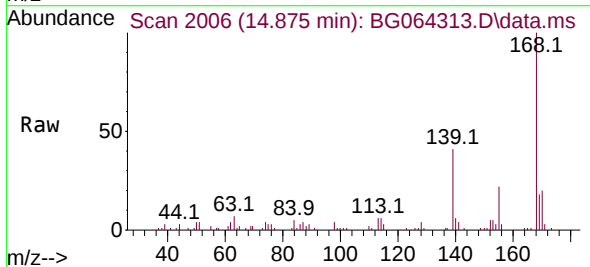
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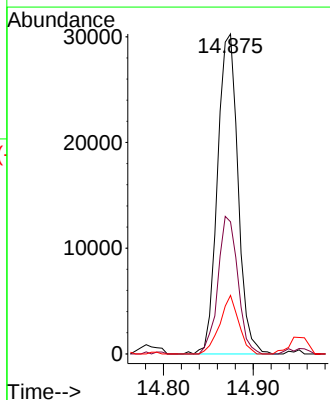
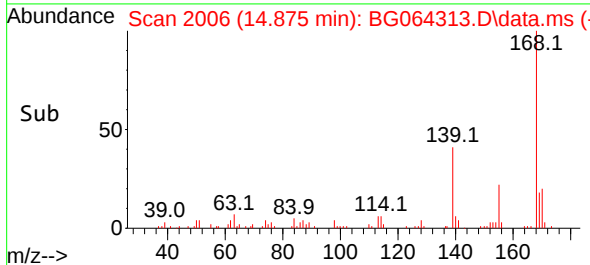
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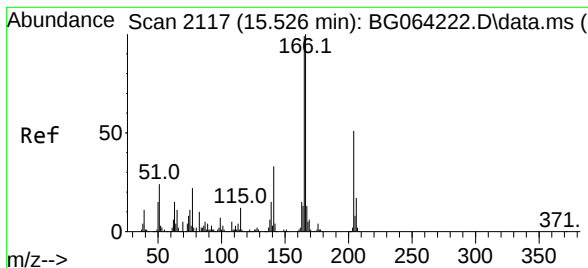


#55
Dibenzofuran
Concen: 6.496 ng
RT: 14.875 min Scan# 2006
Delta R.T. -0.006 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03



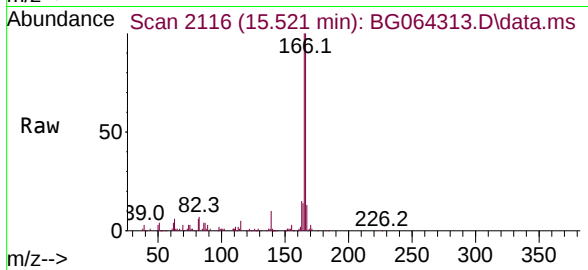
Tgt Ion:168 Resp: 48111
Ion Ratio Lower Upper
168 100
139 41.3 33.2 49.8
169 18.3 10.4 15.6#





#58
Fluorene
Concen: 15.132 ng
RT: 15.521 min Scan# 2117
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :
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ClientSampleId :
PL-01-09052025



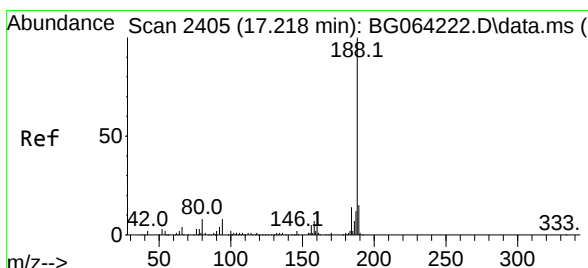
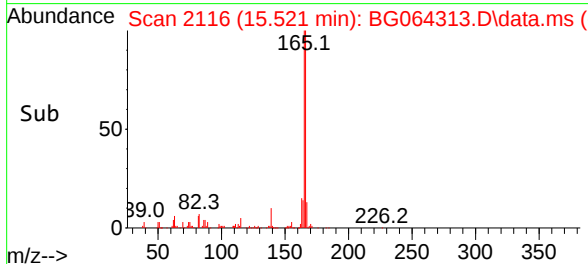
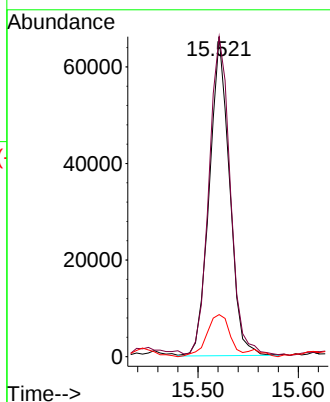
Tgt Ion:166 Resp: 91850
Ion Ratio Lower Upper
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165 100.0 79.1 118.7
167 13.2 10.2 15.4

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Chavli

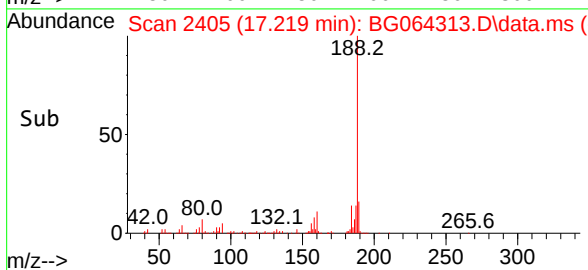
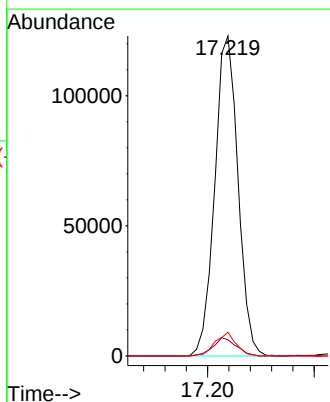
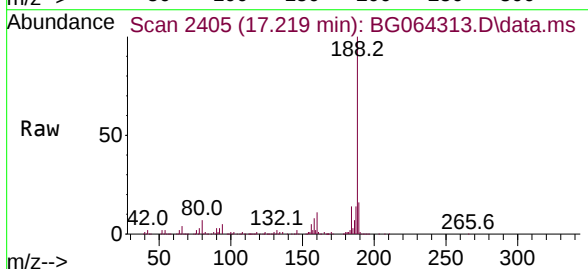
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Supervised By :Jagrut
Upadhyay

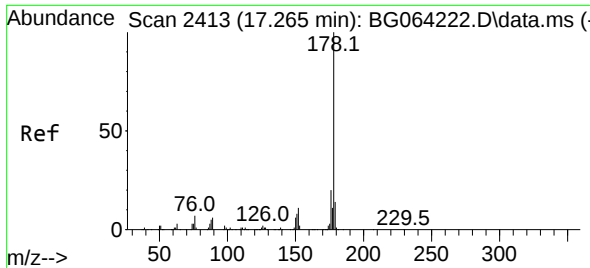
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#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.219 min Scan# 2405
Delta R.T. -0.006 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

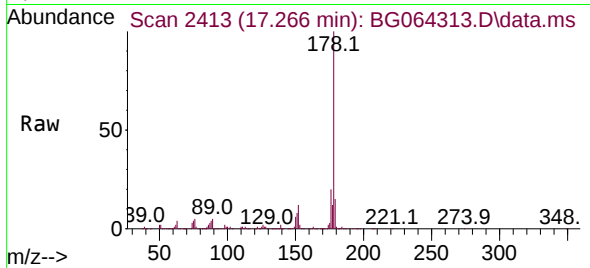
Tgt Ion:188 Resp: 186433
Ion Ratio Lower Upper
188 100
94 5.0 6.2 9.4#
80 7.4 6.8 10.2





#71
Phenanthrene
Concen: 110.321 ng
RT: 17.266 min Scan# 2413
Delta R.T. 0.000 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :
BNA_G
ClientSampleId :
PL-01-09052025



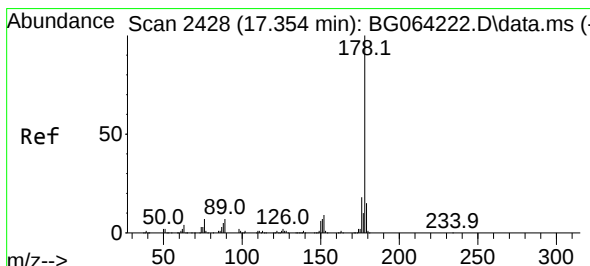
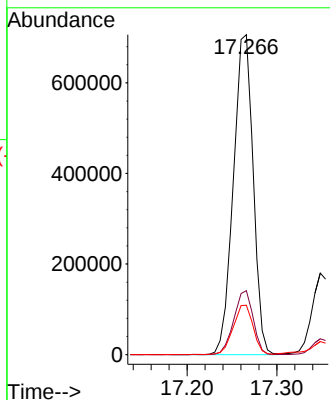
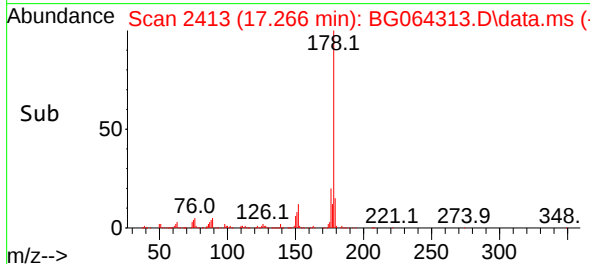
Tgt Ion:178 Resp: 1084799
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.4 11.4 17.2

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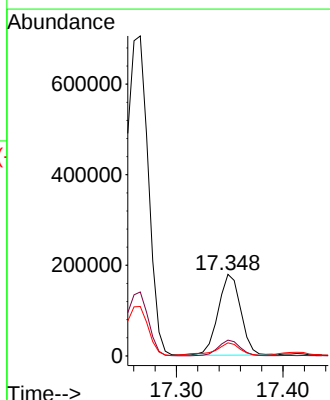
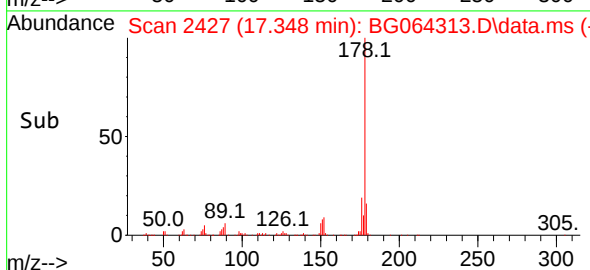
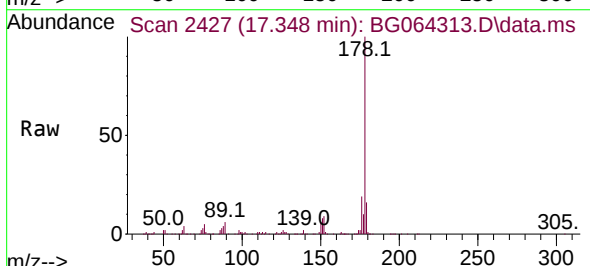
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Supervised By :Jagrut
Upadhyay

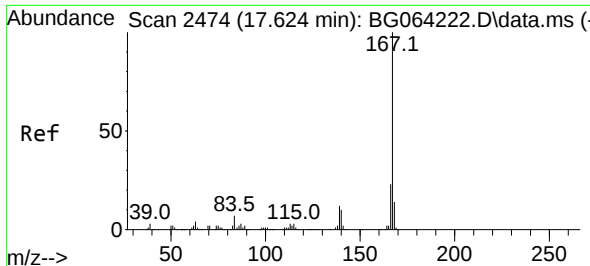
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#72
Anthracene
Concen: 26.299 ng
RT: 17.348 min Scan# 2427
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

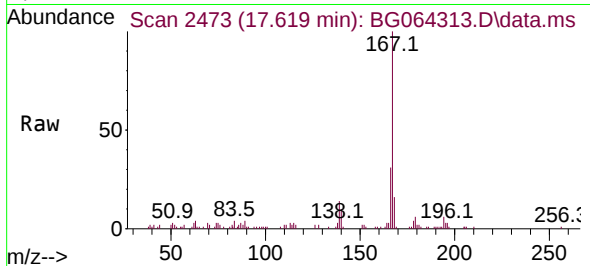
Tgt Ion:178 Resp: 263055
Ion Ratio Lower Upper
178 100
176 19.4 14.7 22.1
179 16.1 12.1 18.1





#73
 Carbazole
 Concen: 4.866 ng
 RT: 17.619 min Scan# 2473
 Delta R.T. -0.006 min
 Lab File: BG064313.D
 Acq: 8 Sep 2025 19:03

Instrument :
 BNA_G
 ClientSampleId :
 PL-01-09052025



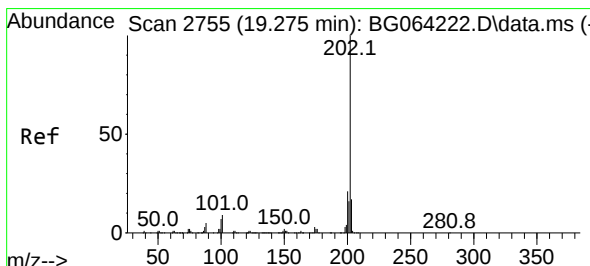
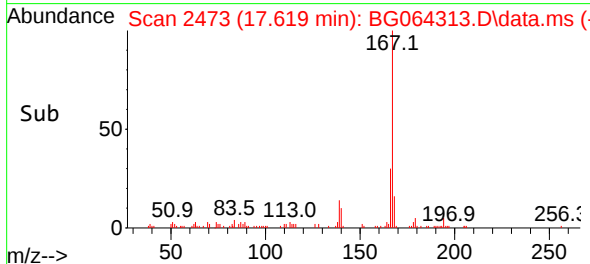
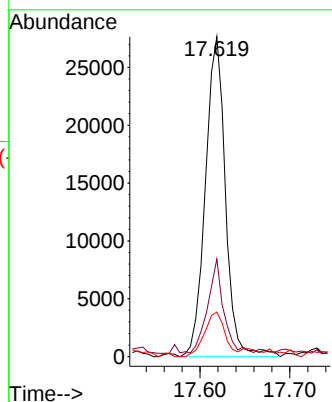
Tgt Ion:167 Resp: 42879
 Ion Ratio Lower Upper
 167 100
 166 30.5 18.2 27.2
 139 13.9 9.8 14.6

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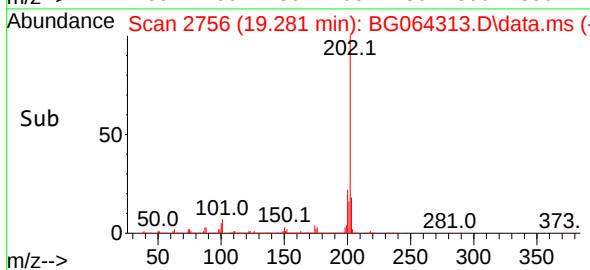
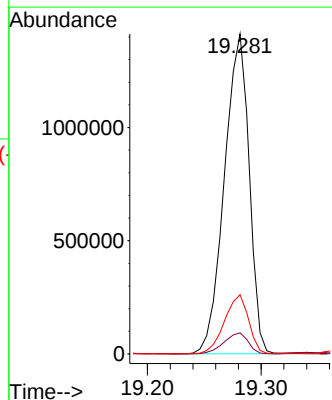
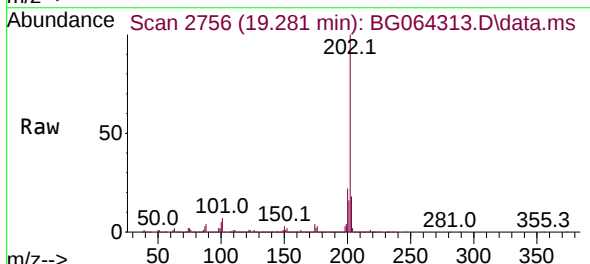
09/09/2025
 Supervised By :Jagrut
 Upadhyay

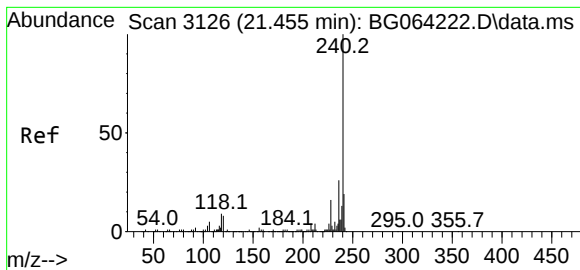
09/09/2025



#75
 Fluoranthene
 Concen: 184.812 ng
 RT: 19.281 min Scan# 2756
 Delta R.T. 0.006 min
 Lab File: BG064313.D
 Acq: 8 Sep 2025 19:03

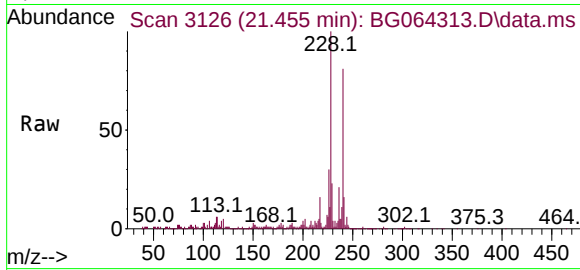
Tgt Ion:202 Resp: 2136773
 Ion Ratio Lower Upper
 202 100
 101 6.6 0.0 28.7
 203 18.5 0.0 36.9





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.455 min Scan# 3126
Delta R.T. 0.000 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :
BNA_G
ClientSampleId :
PL-01-09052025



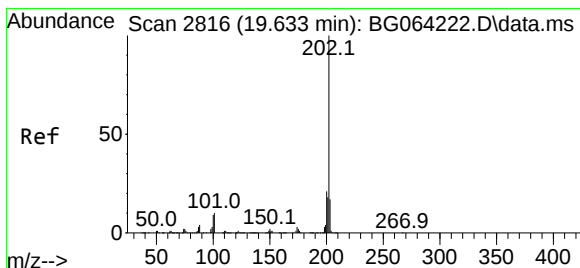
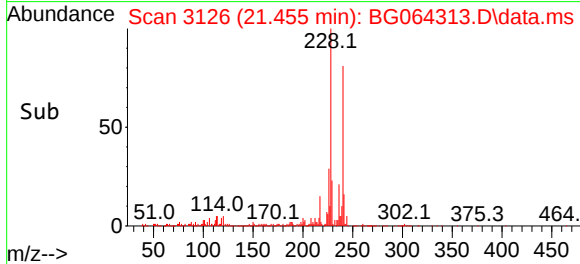
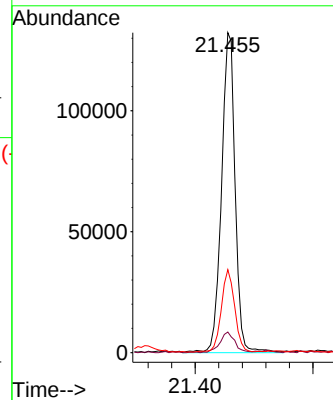
Tgt Ion:240 Resp: 212502
Ion Ratio Lower Upper
240 100
120 6.4 6.2 9.4
236 25.9 20.5 30.7

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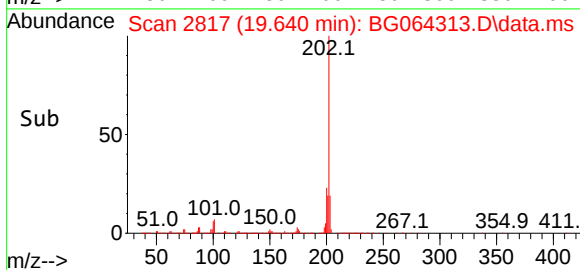
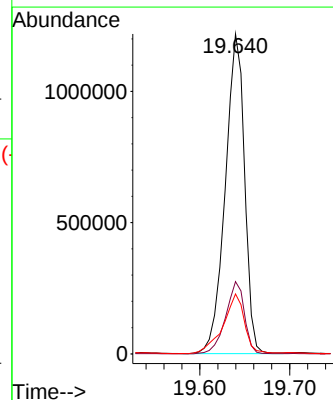
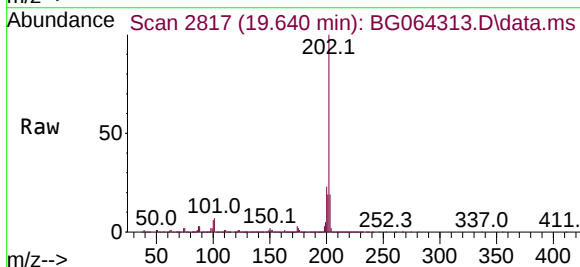
09/09/2025
Supervised By :Jagrut
Upadhyay

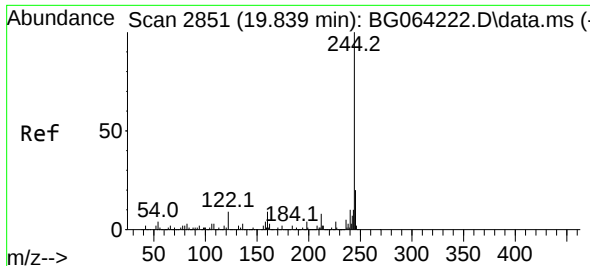
09/09/2025



#78
Pyrene
Concen: 136.464 ng
RT: 19.640 min Scan# 2817
Delta R.T. 0.000 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Tgt Ion:202 Resp: 1826968
Ion Ratio Lower Upper
202 100
200 22.6 16.9 25.3
203 18.8 13.8 20.8





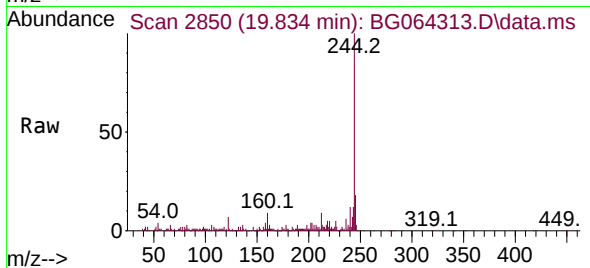
#79
 Terphenyl-d14
 Concen: 11.202 ng
 RT: 19.834 min Scan# 2851
 Delta R.T. -0.011 min
 Lab File: BG064313.D
 Acq: 8 Sep 2025 19:03

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025



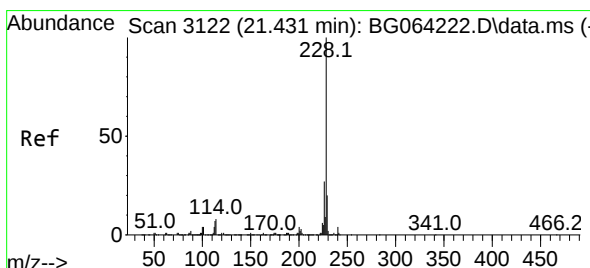
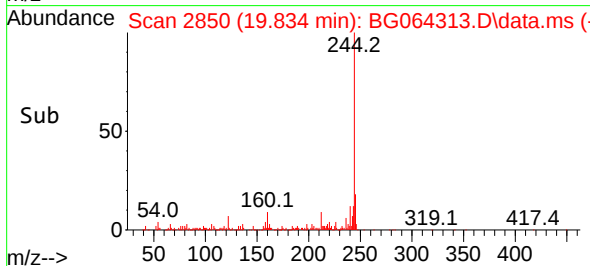
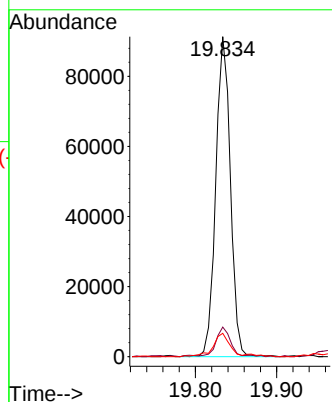
Tgt Ion:244 Resp: 114094
 Ion Ratio Lower Upper
 244 100
 212 9.2 6.6 10.0
 122 7.3 7.0 10.6

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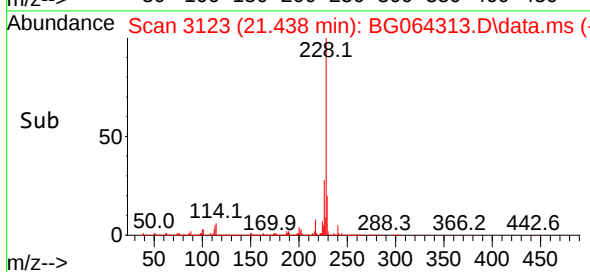
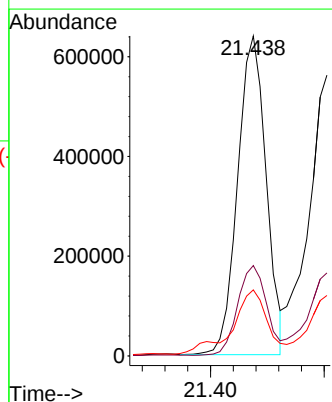
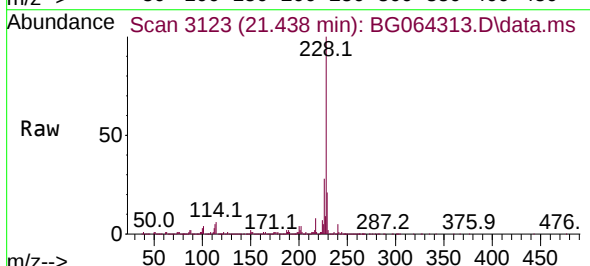
09/09/2025
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 Upadhyay

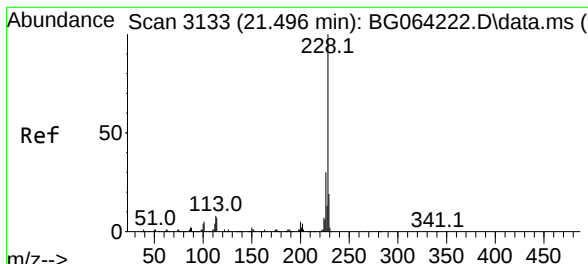
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#81
 Benzo(a)anthracene
 Concen: 81.779 ng
 RT: 21.438 min Scan# 3123
 Delta R.T. 0.000 min
 Lab File: BG064313.D
 Acq: 8 Sep 2025 19:03

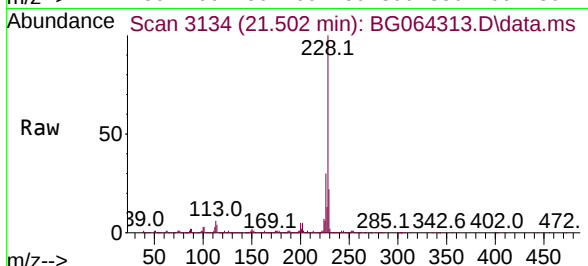
Tgt Ion:228 Resp: 1111785
 Ion Ratio Lower Upper
 228 100
 226 28.2 21.7 32.5
 229 20.6 15.9 23.9





#83
Chrysene
Concen: 72.335 ng
RT: 21.502 min Scan# 3133
Delta R.T. 0.000 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :
BNA_G
ClientSampleId :
PL-01-09052025



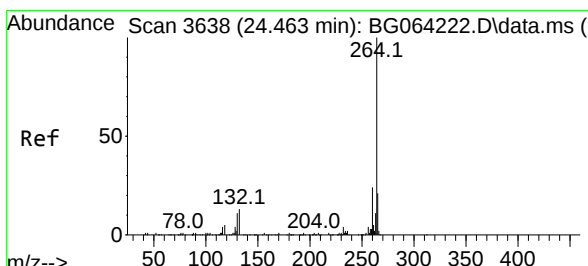
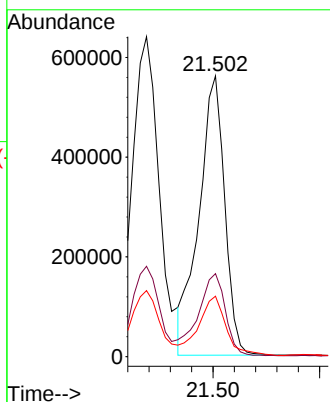
Tgt Ion:228 Resp: 944095
Ion Ratio Lower Upper
228 100
226 29.6 24.2 36.2
229 21.5 15.4 23.2

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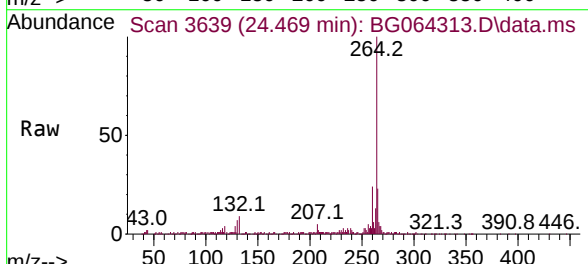
Reviewed By :Rahul
Chavli

09/09/2025
Supervised By :Jagrut
Upadhyay

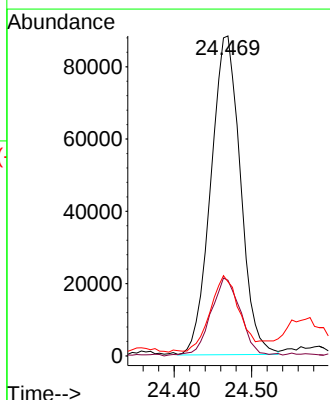
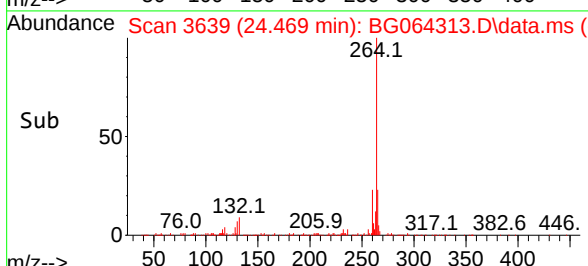
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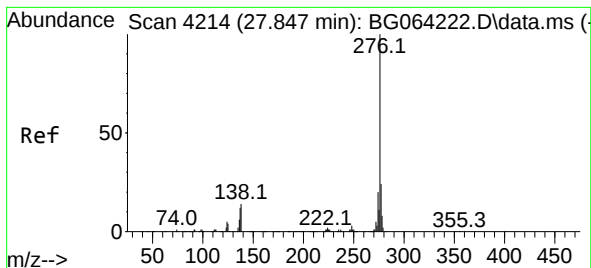


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.469 min Scan# 3639
Delta R.T. 0.006 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03



Tgt Ion:264 Resp: 234153
Ion Ratio Lower Upper
264 100
260 23.6 18.9 28.3
265 23.2 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 33.714 ng

RT: 27.865 min Scan# 4217

Delta R.T. -0.006 min

Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

Instrument :

BNA_G

ClientSampleId :

PL-01-09052025

Tgt Ion:276 Resp: 539107

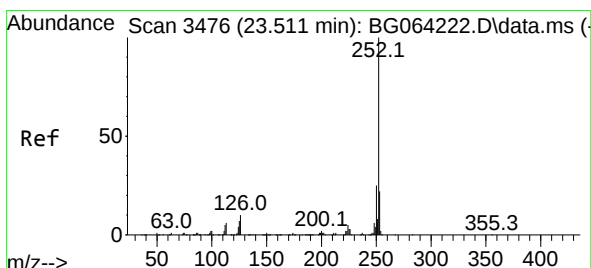
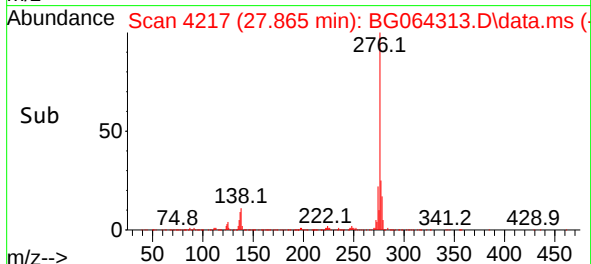
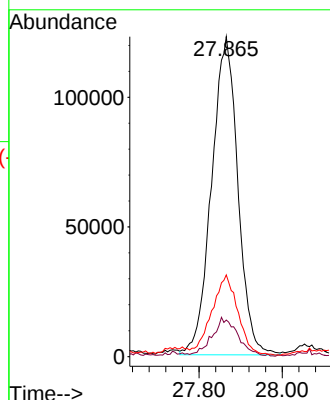
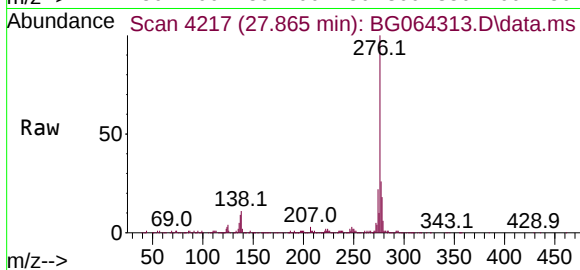
Ion	Ratio	Lower	Upper
276	100		
138	11.3	7.4	11.0
277	25.2	20.5	30.7

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#88

Benzo(b)fluoranthene

Concen: 88.723 ng

RT: 23.529 min Scan# 3479

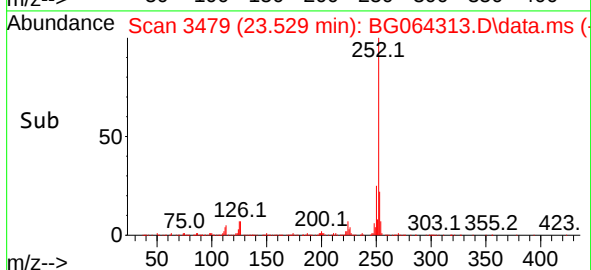
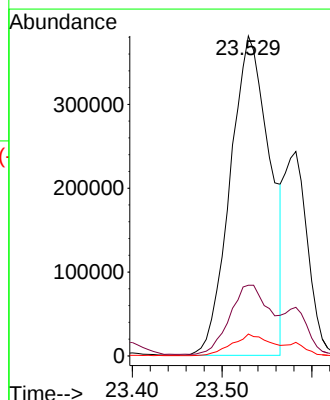
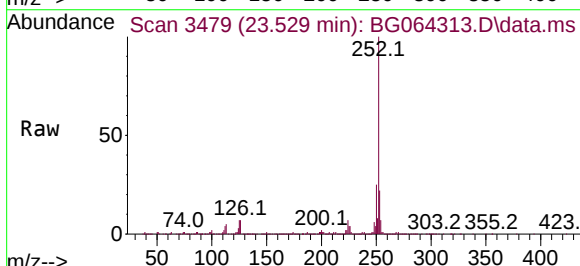
Delta R.T. 0.012 min

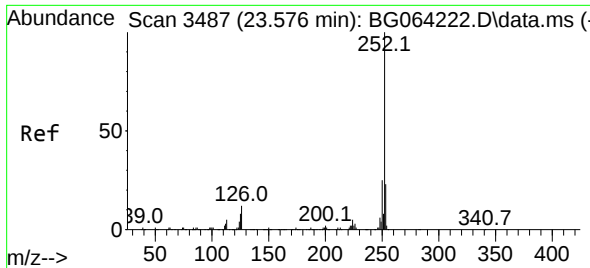
Lab File: BG064313.D

Acq: 8 Sep 2025 19:03

Tgt Ion:252 Resp: 1172504

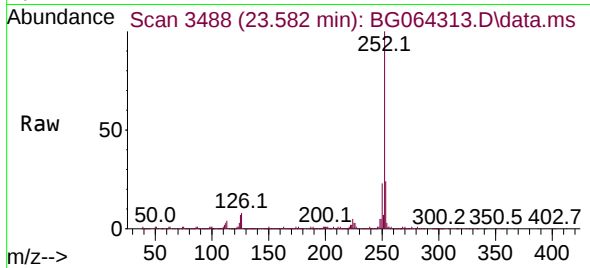
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	6.8	5.9	8.9





#89
Benzo(k)fluoranthene
Concen: 31.642 ng m
RT: 23.582 min Scan# 3487
Delta R.T. -0.006 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :
BNA_G
ClientSampleId :
PL-01-09052025



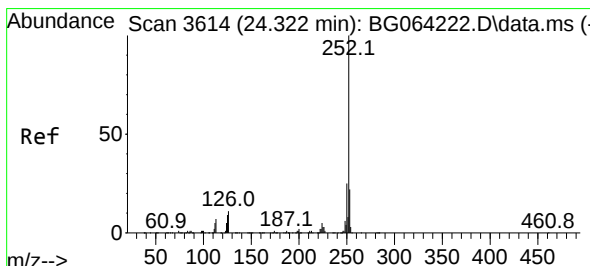
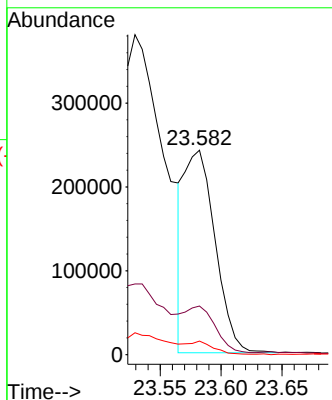
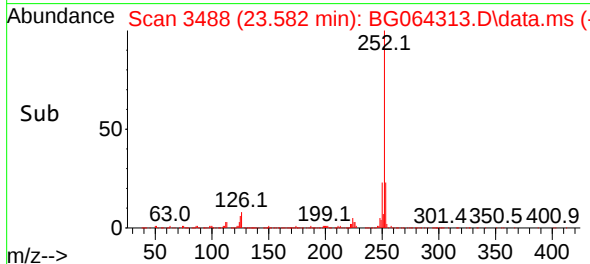
Tgt Ion:252 Resp: 426011
Ion Ratio Lower Upper
252 100
253 23.8 18.2 27.4
125 6.6 7.0 10.4

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Reviewed By :Rahul
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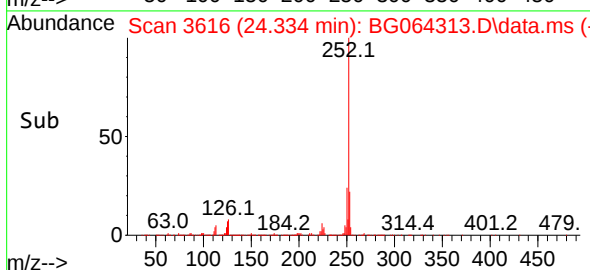
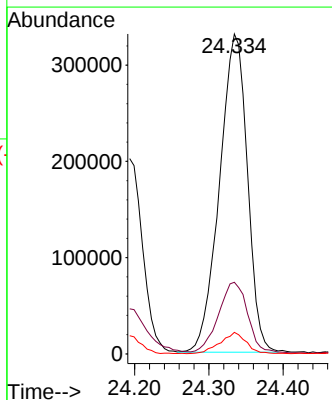
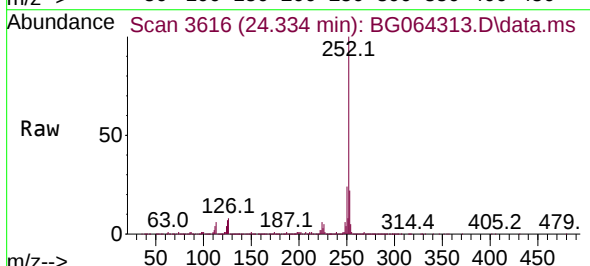
09/09/2025
Supervised By :Jagrut
Upadhyay

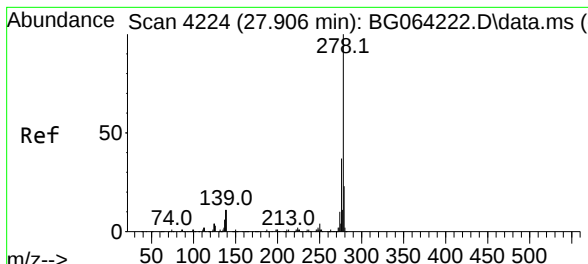
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#90
Benzo(a)pyrene
Concen: 69.988 ng m
RT: 24.334 min Scan# 3616
Delta R.T. 0.006 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

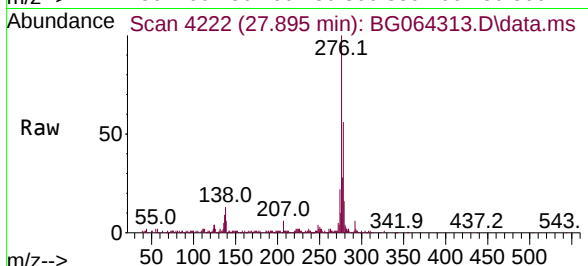
Tgt Ion:252 Resp: 860373
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.2
125 6.7 7.0 10.6





#91
Dibenzo(a,h)anthracene
Concen: 11.588 ng m
RT: 27.895 min Scan# 4222
Delta R.T. -0.029 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03

Instrument :
BNA_G
ClientSampleId :
PL-01-09052025



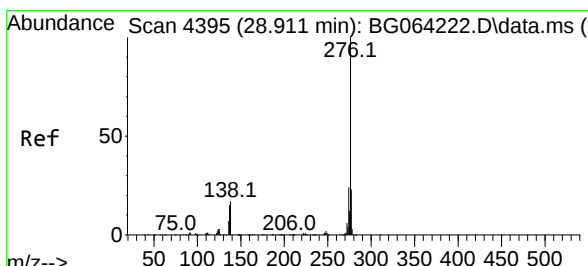
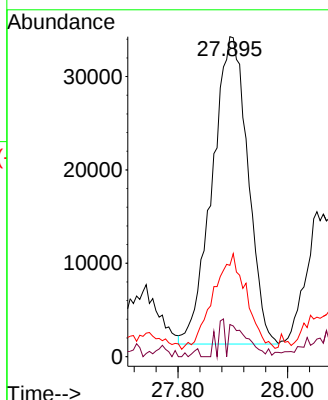
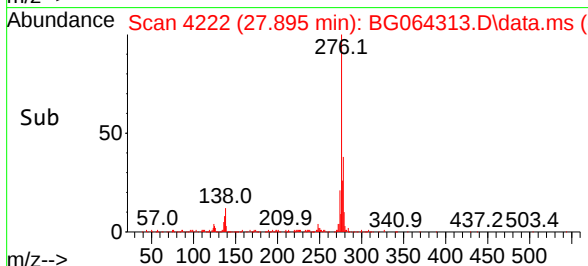
Tgt Ion:278 Resp: 148777
Ion Ratio Lower Upper
278 100
139 10.0 9.0 13.4
279 28.5 18.8 28.2

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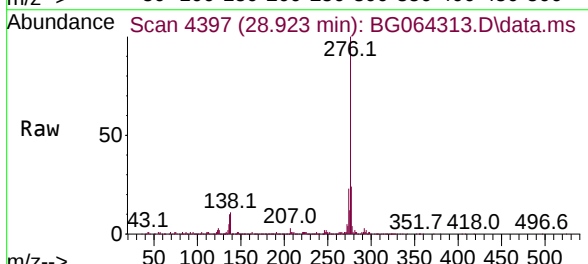
Reviewed By :Rahul
Chavli

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Supervised By :Jagrut
Upadhyay

09/09/2025



#92
Benzo(g,h,i)perylene
Concen: 38.119 ng
RT: 28.923 min Scan# 4397
Delta R.T. -0.011 min
Lab File: BG064313.D
Acq: 8 Sep 2025 19:03



Tgt Ion:276 Resp: 476231
Ion Ratio Lower Upper
276 100
277 23.8 18.2 27.4
138 11.3 13.3 19.9

