

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121025\
 Data File : BG064926.D
 Acq On : 10 Dec 2025 18:32
 Operator : RC/JU
 Sample : Q3826-09
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-1

Quant Time: Dec 10 23:36:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 12 17:10:56 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/11/2025
 Supervised By :Sohil Jodhani 12/12/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.152	152	19705	20.000	ng	-0.01
21) Naphthalene-d8	10.967	136	74876	20.000	ng	#-0.02
39) Acenaphthene-d10	14.762	164	64759	20.000	ng	-0.01
64) Phenanthrene-d10	17.494	188	173456	20.000	ng	# 0.00
76) Chrysene-d12	21.742	240	225816	20.000	ng	#-0.01
86) Perylene-d12	25.003	264	254120	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.690	112	72589	64.327	ng	0.00
7) Phenol-d6	7.294	99	92148	61.396	ng	-0.01
23) Nitrobenzene-d5	9.316	82	59205	39.095	ng	-0.01
42) 2,4,6-Tribromophenol	16.237	330	113464	89.837	ng	-0.01
45) 2-Fluorobiphenyl	13.393	172	191336	41.227	ng	-0.01
79) Terphenyl-d14	20.079	244	511502	44.557	ng	-0.01
Target Compounds						
						Qvalue
71) Phenanthrene	17.535	178	163703	17.249	ng	99
75) Fluoranthene	19.533	202	368684	28.409	ng	98
78) Pyrene	19.891	202	327263	25.858	ng	97
81) Benzo(a)anthracene	21.725	228	179676	11.702	ng	97
83) Chrysene	21.789	228	195015	13.472	ng	98
87) Indeno(1,2,3-cd)pyrene	28.716	276	129668	7.427	ng	# 95
88) Benzo(b)fluoranthene	23.963	252	260297	16.096	ng	# 97
89) Benzo(k)fluoranthene	24.028	252	85713m	5.276	ng	
90) Benzo(a)pyrene	24.844	252	183898m	12.259	ng	
91) Dibenzo(a,h)anthracene	28.752	278	36977m	2.585	ng	
92) Benzo(g,h,i)perylene	29.868	276	130472	9.479	ng	# 97

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

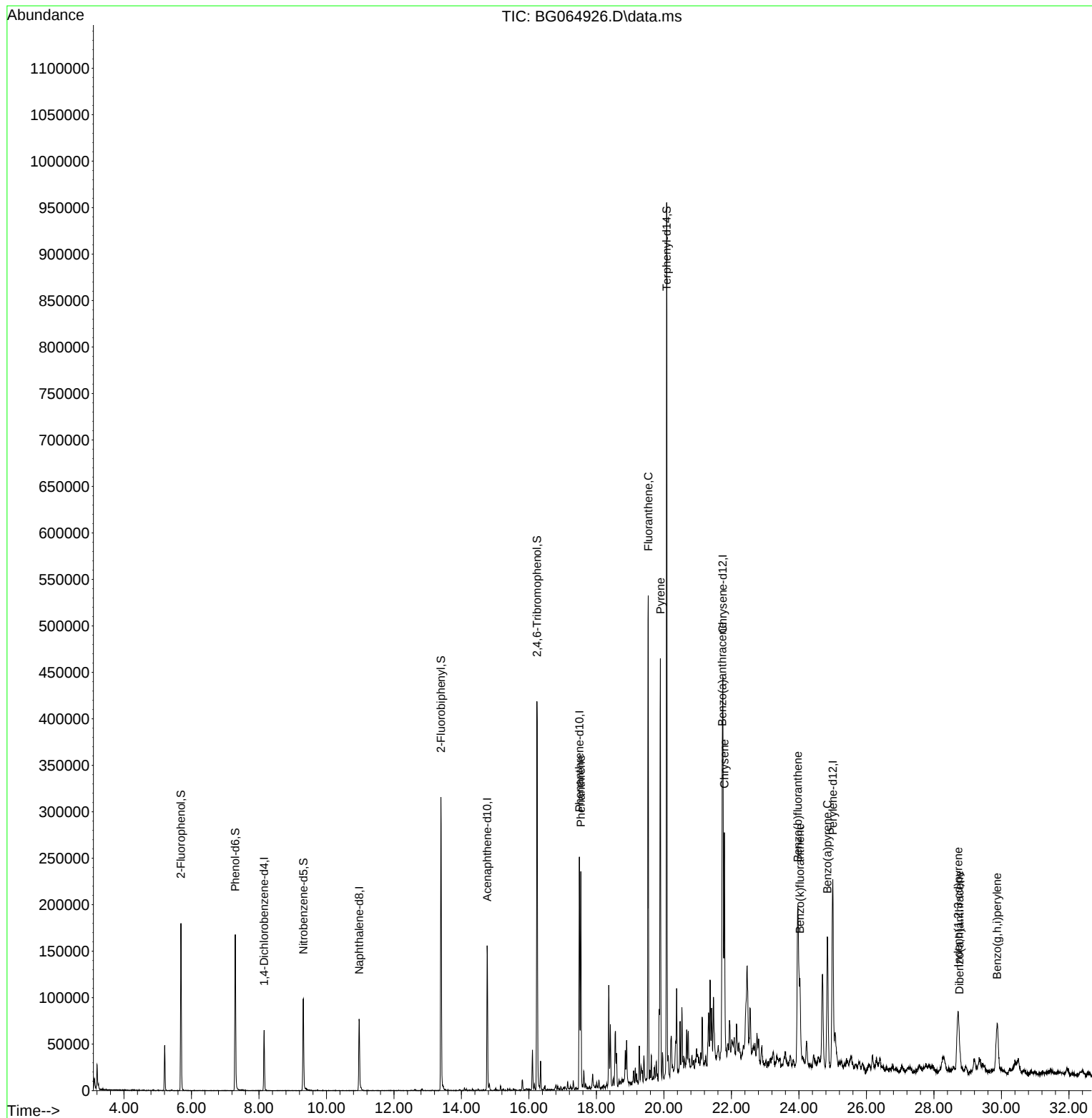
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121025\
Data File : BG064926.D
Acq On : 10 Dec 2025 18:32
Operator : RC/JU
Sample : Q3826-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

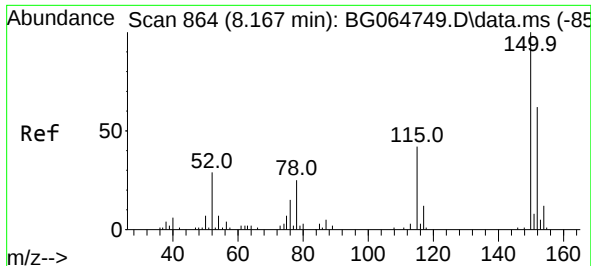
Instrument :
BNA_G
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TP-1

Quant Time: Dec 10 23:36:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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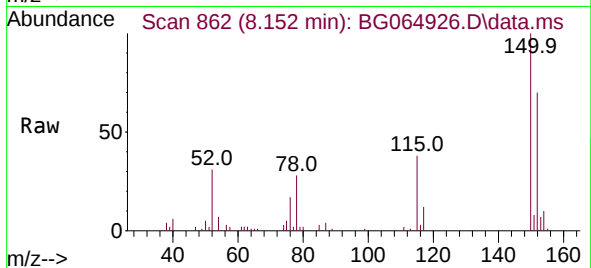
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025





#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.152 min Scan# 80
 Delta R.T. -0.015 min
 Lab File: BG064926.D
 Acq: 10 Dec 2025 18:32

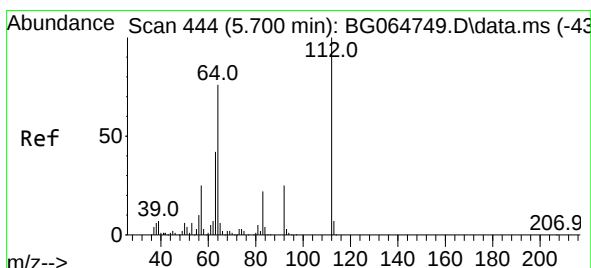
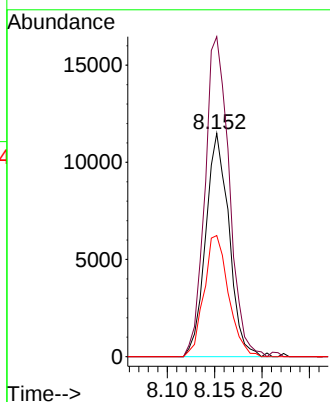
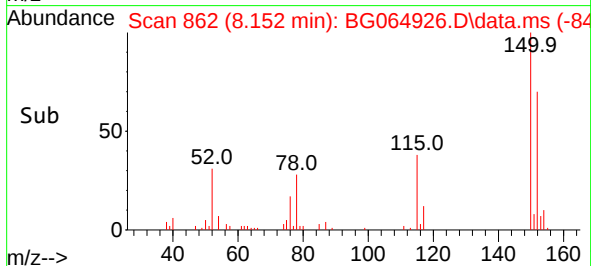
Instrument :
 BNA_G
 ClientSampleId :
 TP-1



Tgt Ion:152 Resp: 19705
 Ion Ratio Lower Upper
 152 100
 150 143.3 129.2 193.8
 115 54.2 53.7 80.5

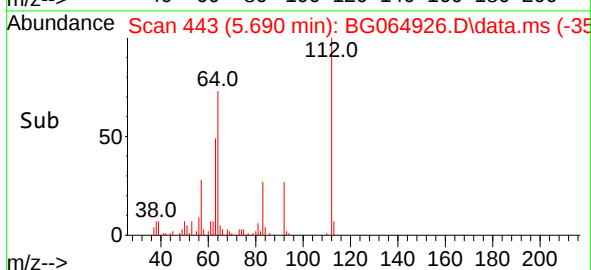
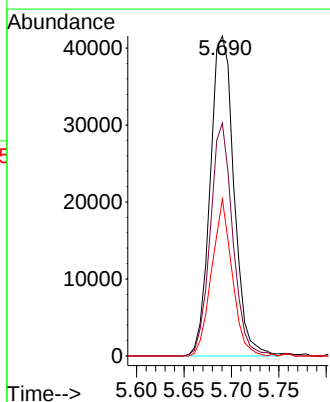
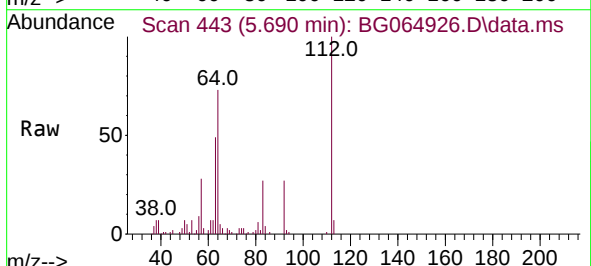
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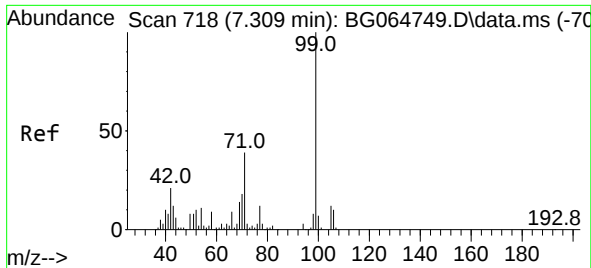
Reviewed By :Jagrut Upadhyay 12/11/2025
 Supervised By :Sohil Jodhani 12/12/2025



#5
 2-Fluorophenol
 Concen: 64.327 ng
 RT: 5.690 min Scan# 443
 Delta R.T. -0.009 min
 Lab File: BG064926.D
 Acq: 10 Dec 2025 18:32

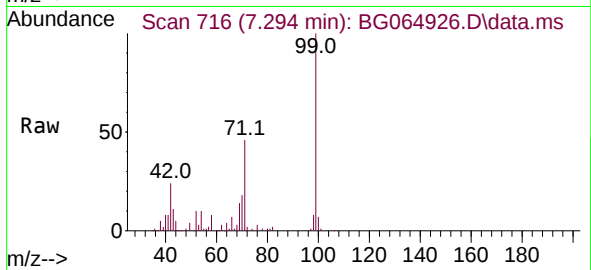
Tgt Ion:112 Resp: 72589
 Ion Ratio Lower Upper
 112 100
 64 72.7 61.0 91.4
 63 49.0 33.3 49.9





#7
Phenol-d6
Concen: 61.396 ng
RT: 7.294 min Scan# 718
Delta R.T. -0.015 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

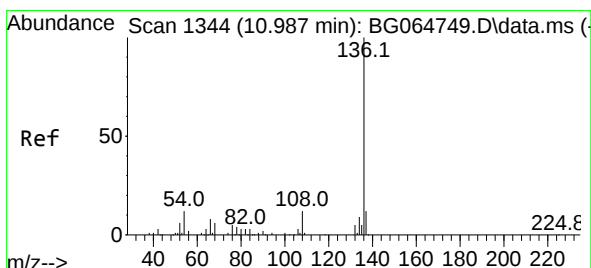
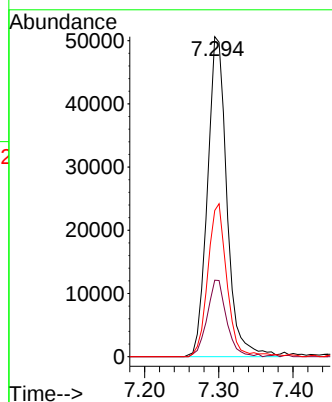
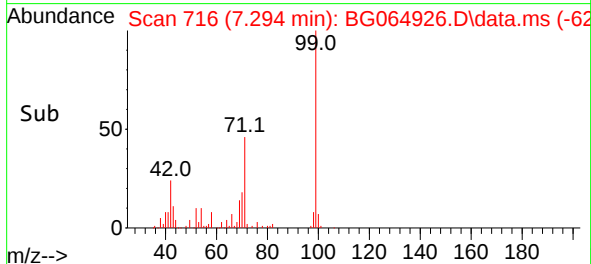
Instrument :
BNA_G
ClientSampleId :
TP-1



Tgt Ion: 99 Resp: 92148
Ion Ratio Lower Upper
99 100
42 23.9 16.8 25.2
71 45.7 31.1 46.7

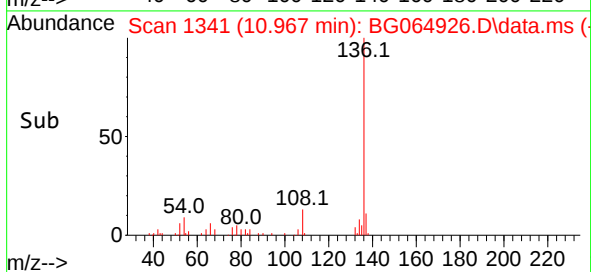
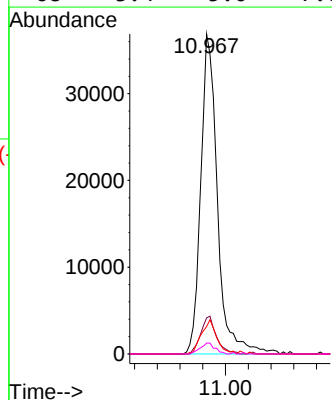
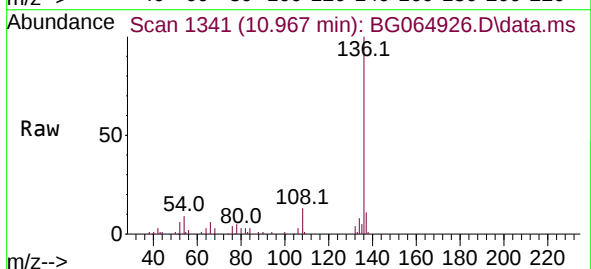
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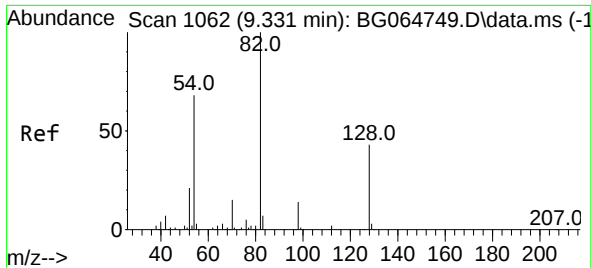
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.967 min Scan# 1341
Delta R.T. -0.020 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

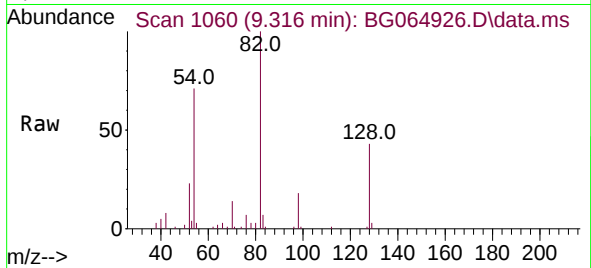
Tgt Ion:136 Resp: 74876
Ion Ratio Lower Upper
136 100
137 11.2 9.3 13.9
54 9.3 9.3 13.9
68 3.4 5.0 7.6#





#23
Nitrobenzene-d5
Concen: 39.095 ng
RT: 9.316 min Scan# 1060
Delta R.T. -0.015 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

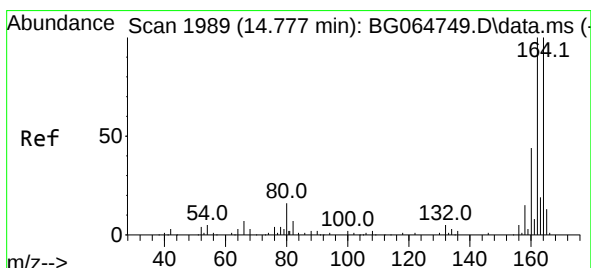
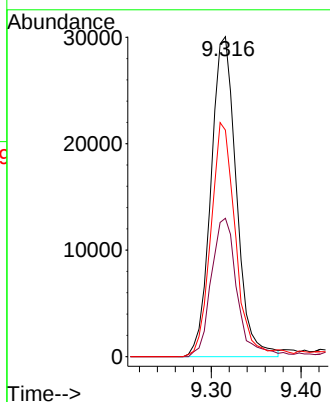
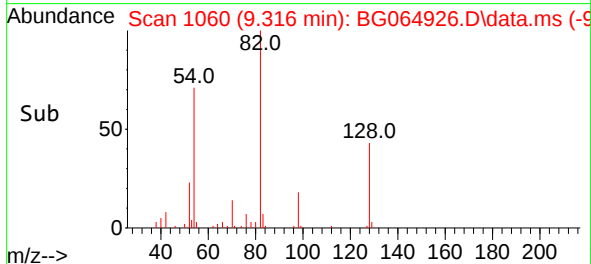
Instrument :
BNA_G
ClientSampleId :
TP-1



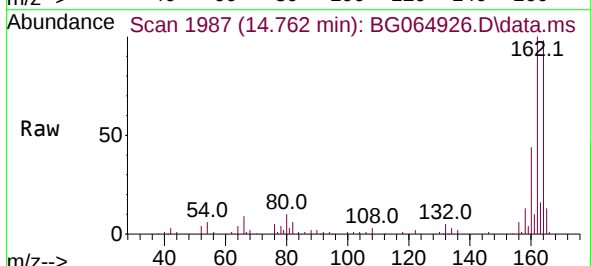
Tgt Ion: 82 Resp: 59205
Ion Ratio Lower Upper
82 100
128 43.2 34.1 51.1
54 70.8 54.3 81.5

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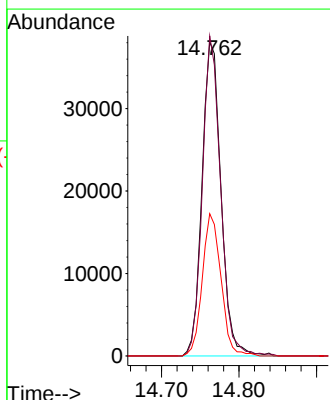
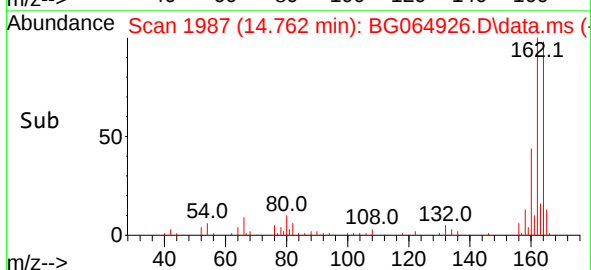
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

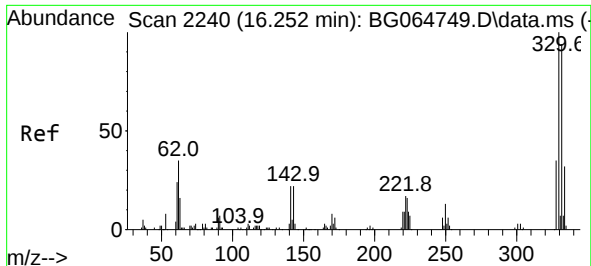


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.762 min Scan# 1987
Delta R.T. -0.015 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32



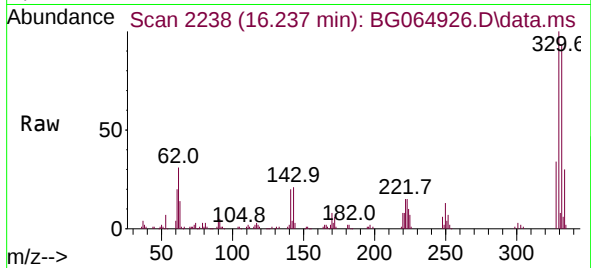
Tgt Ion:164 Resp: 64759
Ion Ratio Lower Upper
164 100
162 102.0 79.8 119.6
160 45.3 34.9 52.3





#42
2,4,6-Tribromophenol
Concen: 89.837 ng
RT: 16.237 min Scan# 21
Delta R.T. -0.015 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

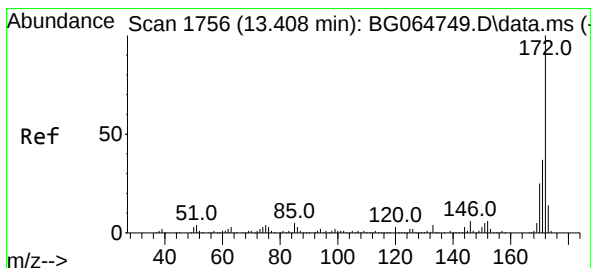
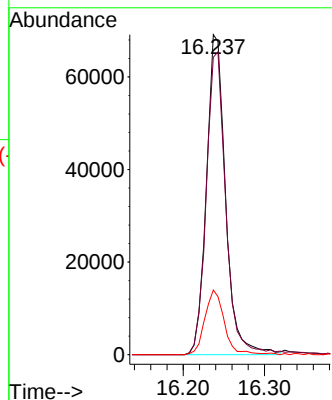
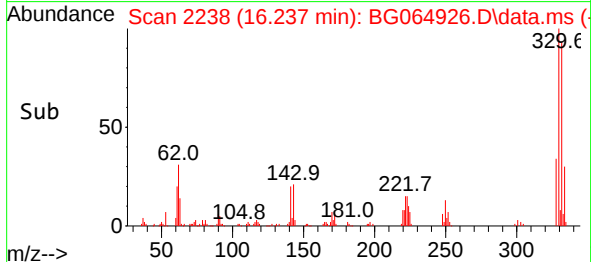
Instrument :
BNA_G
ClientSampleId :
TP-1



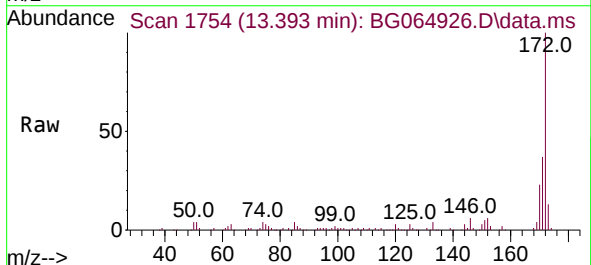
Tgt Ion:330 Resp: 113464
Ion Ratio Lower Upper
330 100
332 97.5 77.0 115.6
141 20.5 18.2 27.2

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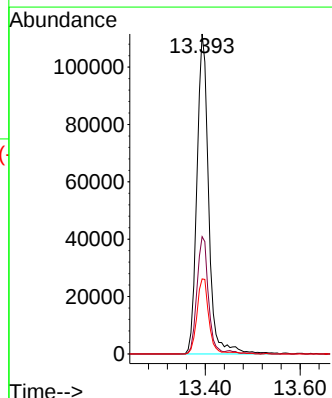
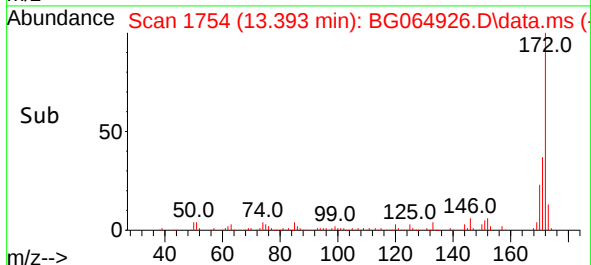
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

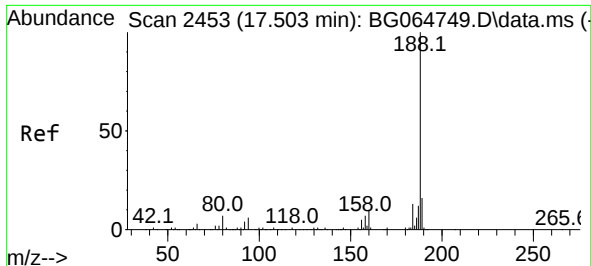


#45
2-Fluorobiphenyl
Concen: 41.227 ng
RT: 13.393 min Scan# 1754
Delta R.T. -0.015 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32



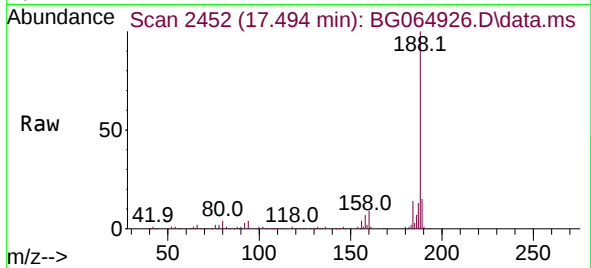
Tgt Ion:172 Resp: 191336
Ion Ratio Lower Upper
172 100
171 36.6 29.9 44.9
170 23.4 19.8 29.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.494 min Scan# 2452
Delta R.T. -0.009 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

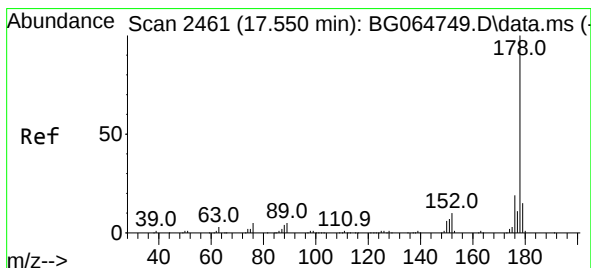
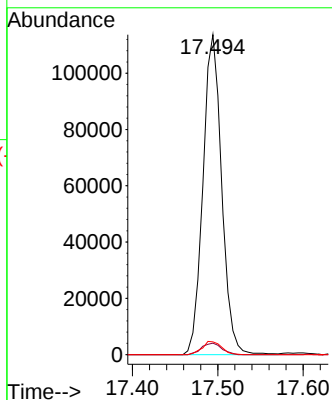
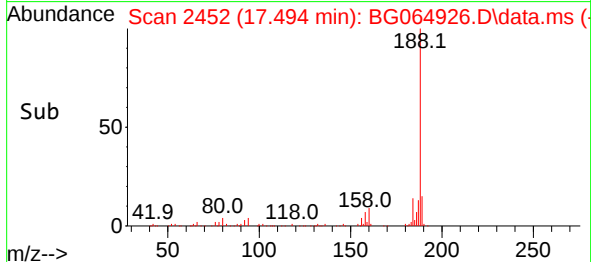
Instrument :
BNA_G
ClientSampleId :
TP-1



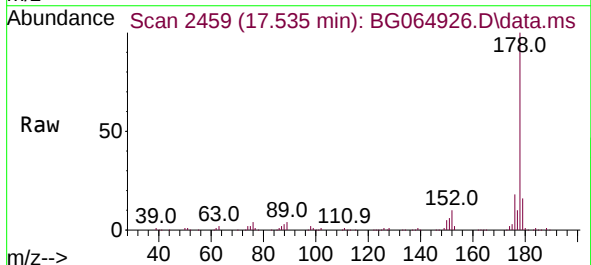
Tgt Ion:188 Resp: 173456
Ion Ratio Lower Upper
188 100
94 3.6 4.7 7.1
80 4.0 5.4 8.2

Manual Integrations
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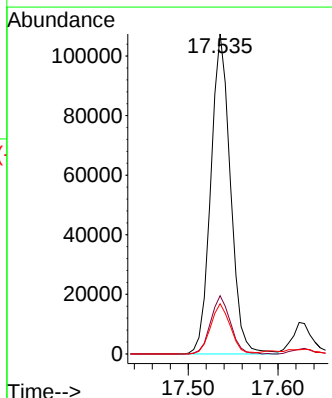
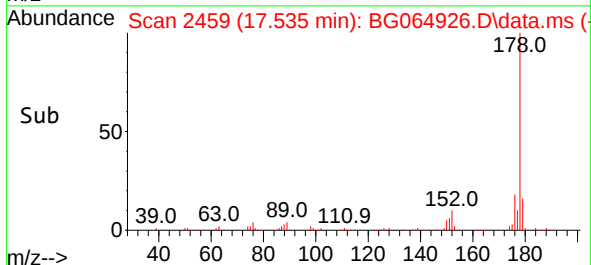
Reviewed By :Jagrut Upadhyay 12/11/2025
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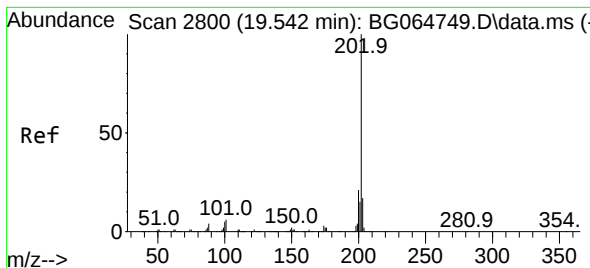


#71
Phenanthrene
Concen: 17.249 ng
RT: 17.535 min Scan# 2459
Delta R.T. -0.015 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32



Tgt Ion:178 Resp: 163703
Ion Ratio Lower Upper
178 100
176 18.2 14.8 22.2
179 15.7 12.2 18.4





#75

Fluoranthene

Concen: 28.409 ng

RT: 19.533 min Scan# 21

Delta R.T. -0.009 min

Lab File: BG064926.D

Acq: 10 Dec 2025 18:32

Instrument :

BNA_G

ClientSampleId :

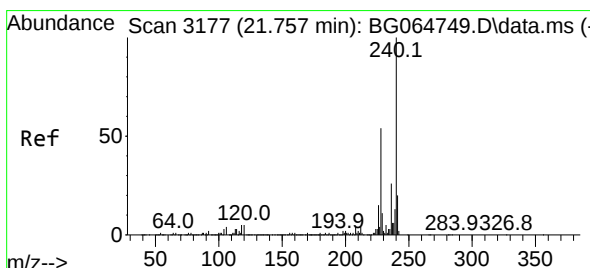
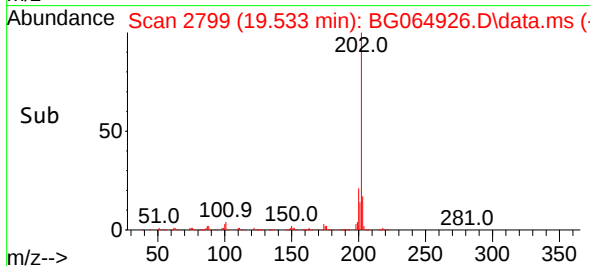
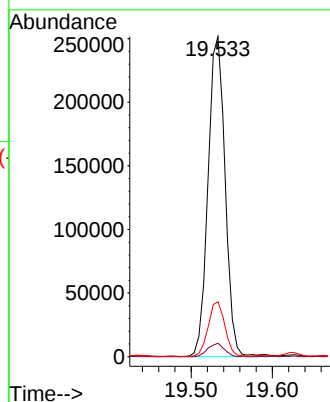
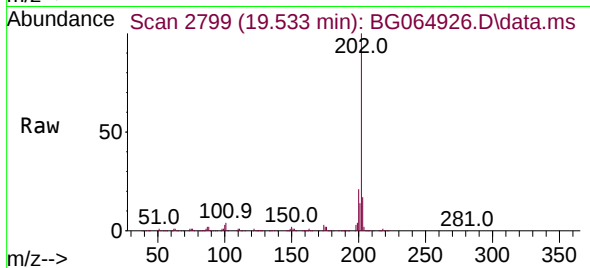
TP-1

Tgt Ion:202 Resp: 368684
 Ion Ratio Lower Upper
 202 100
 101 4.2 0.0 26.4
 203 17.2 0.0 37.5

Manual Integrations

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#76

Chrysene-d12

Concen: 20.000 ng

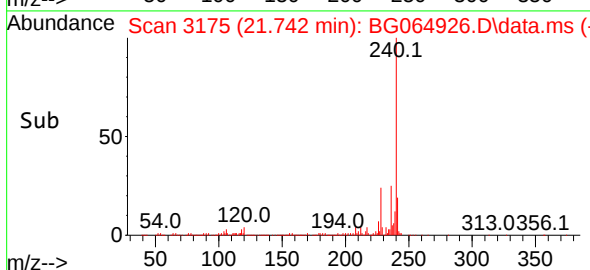
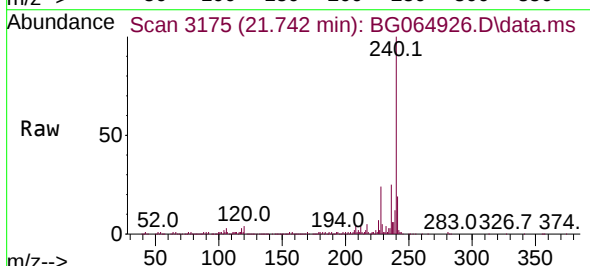
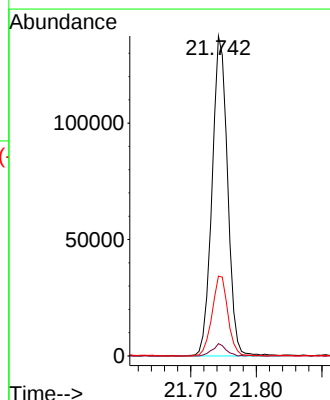
RT: 21.742 min Scan# 3175

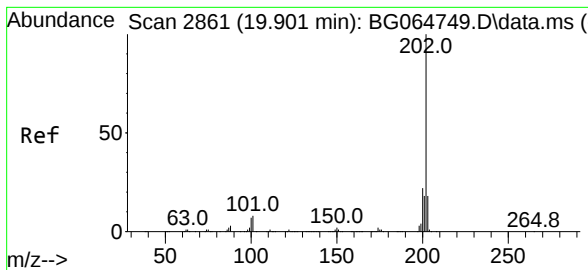
Delta R.T. -0.015 min

Lab File: BG064926.D

Acq: 10 Dec 2025 18:32

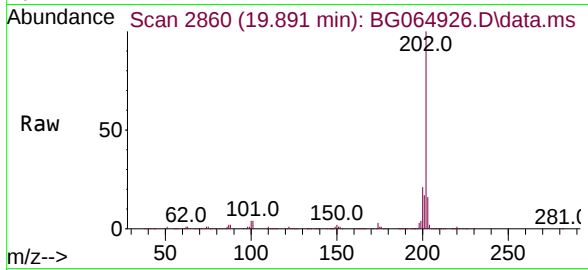
Tgt Ion:240 Resp: 225816
 Ion Ratio Lower Upper
 240 100
 120 3.8 4.2 6.4#
 236 24.9 20.8 31.2





#78
Pyrene
Concen: 25.858 ng
RT: 19.891 min Scan# 2861
Delta R.T. -0.009 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

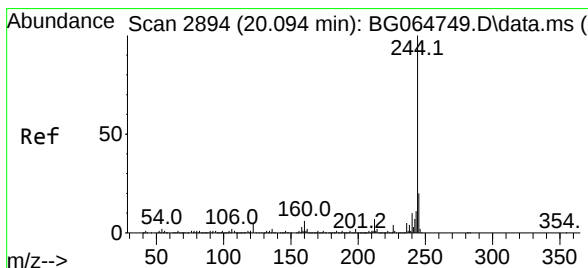
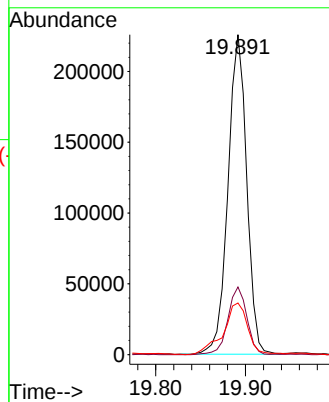
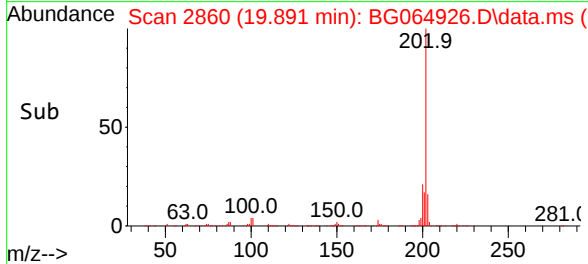
Instrument :
BNA_G
ClientSampleId :
TP-1



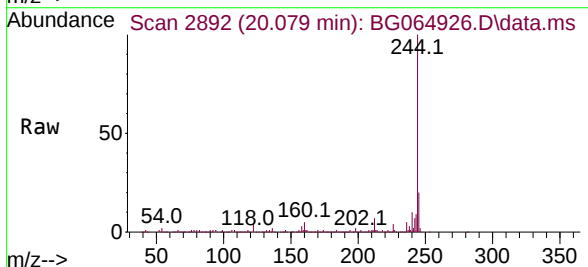
Tgt Ion:202 Resp: 327263
Ion Ratio Lower Upper
202 100
200 21.1 17.9 26.9
203 16.1 14.0 21.0

Manual Integrations
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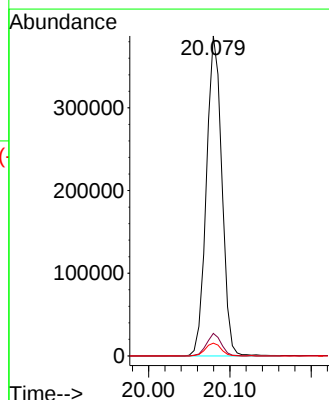
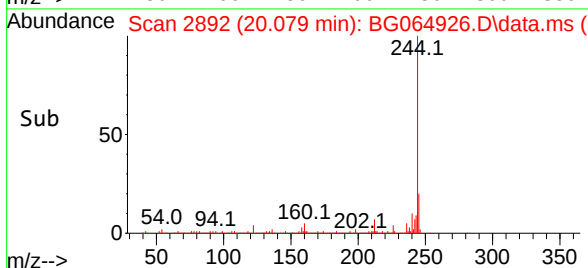
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

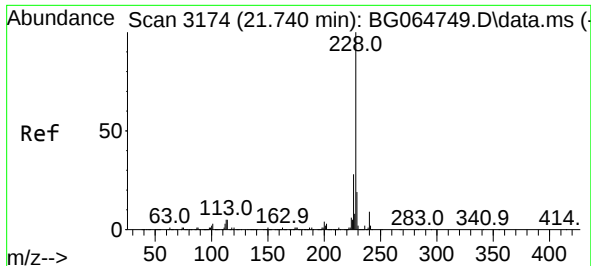


#79
Terphenyl-d14
Concen: 44.557 ng
RT: 20.079 min Scan# 2892
Delta R.T. -0.015 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32



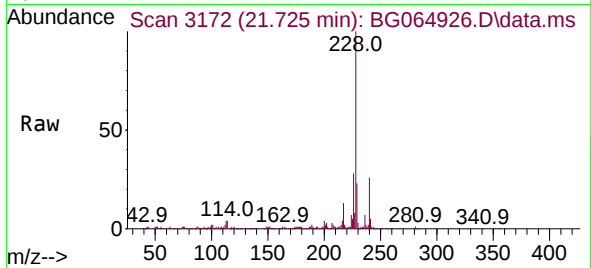
Tgt Ion:244 Resp: 511502
Ion Ratio Lower Upper
244 100
212 7.0 5.8 8.6
122 4.0 4.3 6.5





#81
Benzo(a)anthracene
Concen: 11.702 ng
RT: 21.725 min Scan# 3172
Delta R.T. -0.015 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

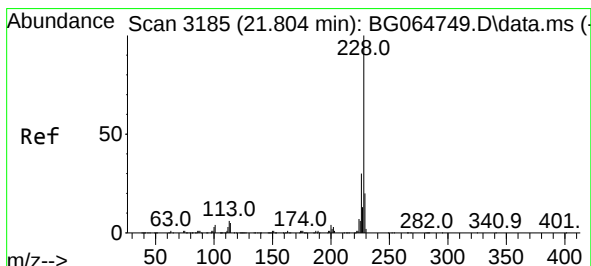
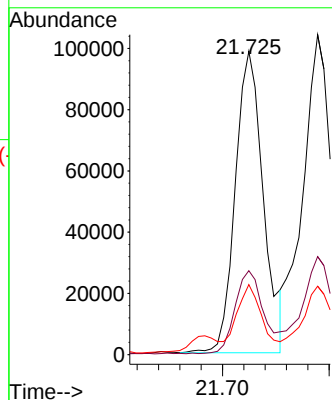
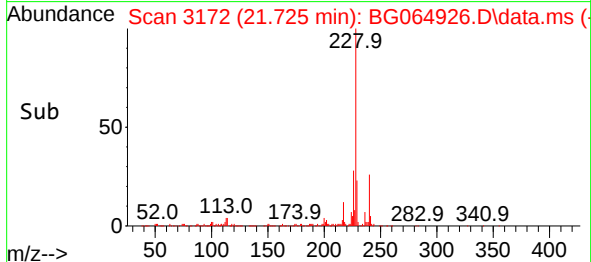
Instrument :
BNA_G
ClientSampleId :
TP-1



Tgt Ion:228 Resp: 179676
Ion Ratio Lower Upper
228 100
226 27.7 22.1 33.1
229 23.1 15.5 23.3

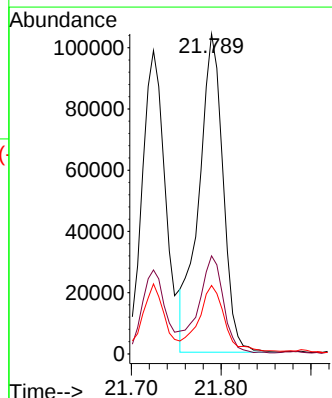
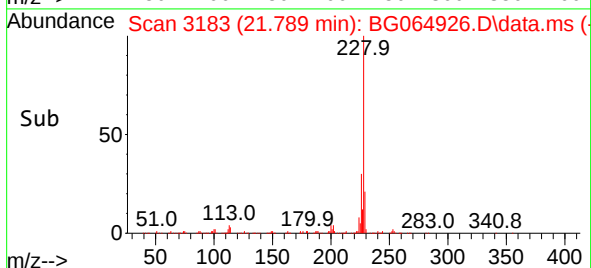
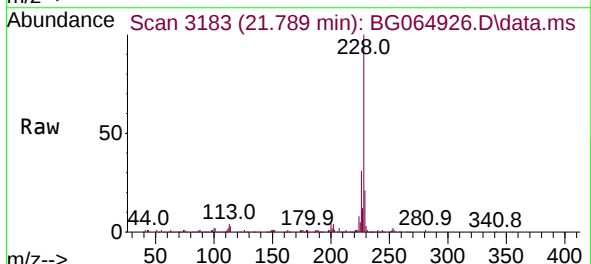
Manual Integrations
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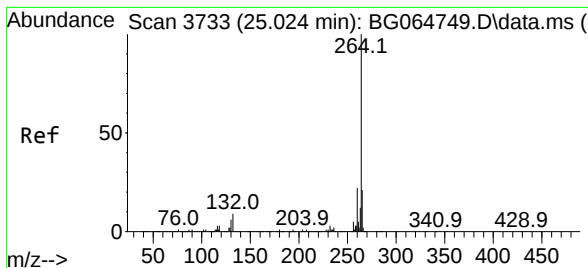
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#83
Chrysene
Concen: 13.472 ng
RT: 21.789 min Scan# 3183
Delta R.T. -0.015 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

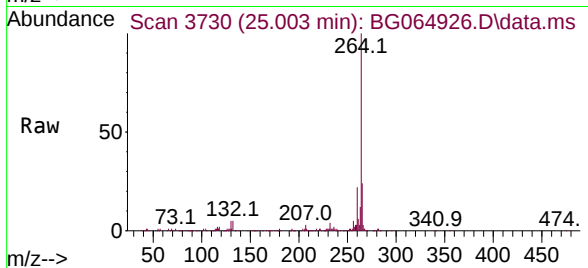
Tgt Ion:228 Resp: 195015
Ion Ratio Lower Upper
228 100
226 30.6 24.2 36.2
229 21.4 16.0 24.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.003 min Scan# 3730
Delta R.T. -0.021 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

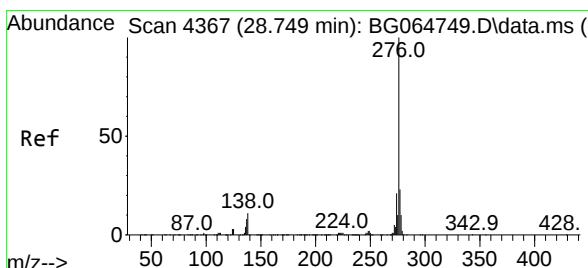
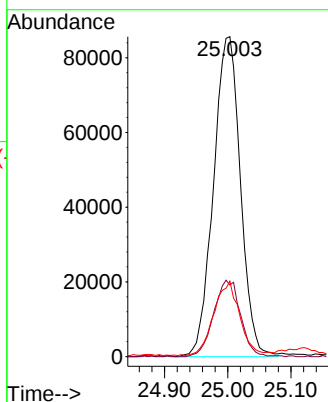
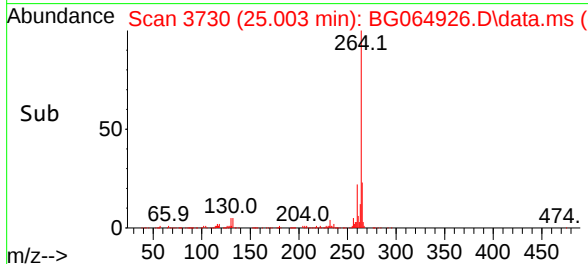
Instrument :
BNA_G
ClientSampleId :
TP-1



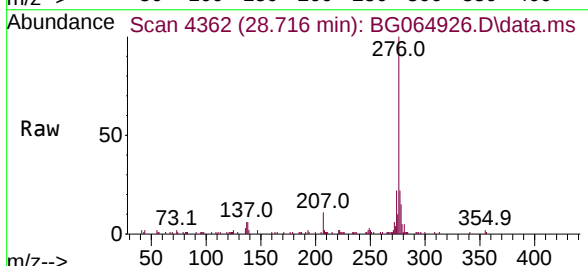
Tgt Ion:264 Resp: 254120
Ion Ratio Lower Upper
264 100
260 22.4 17.2 25.8
265 23.6 16.6 25.0

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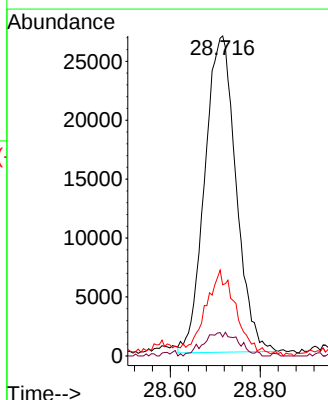
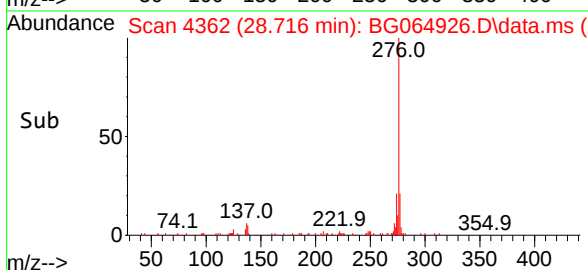
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

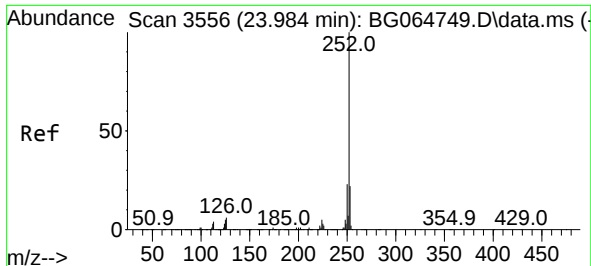


#87
Indeno(1,2,3-cd)pyrene
Concen: 7.427 ng
RT: 28.716 min Scan# 4362
Delta R.T. -0.033 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32



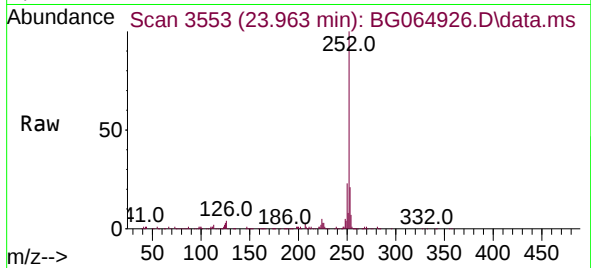
Tgt Ion:276 Resp: 129668
Ion Ratio Lower Upper
276 100
138 8.1 4.5 6.7#
277 22.5 20.0 30.0





#88
Benzo(b)fluoranthene
Concen: 16.096 ng
RT: 23.963 min Scan# 3553
Delta R.T. -0.021 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

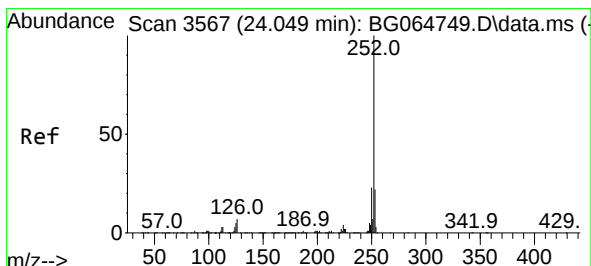
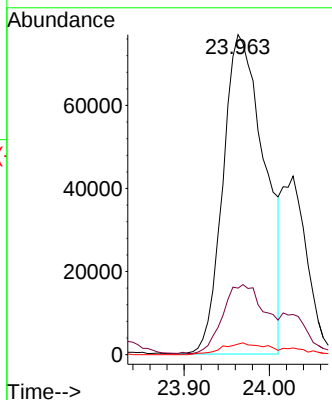
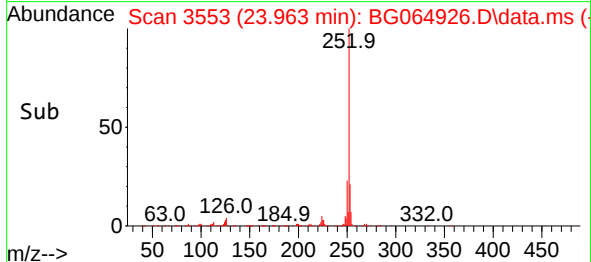
Instrument :
BNA_G
ClientSampleId :
TP-1



Tgt Ion:252 Resp: 260297
Ion Ratio Lower Upper
252 100
253 20.8 17.4 26.2
125 3.3 4.2 6.2

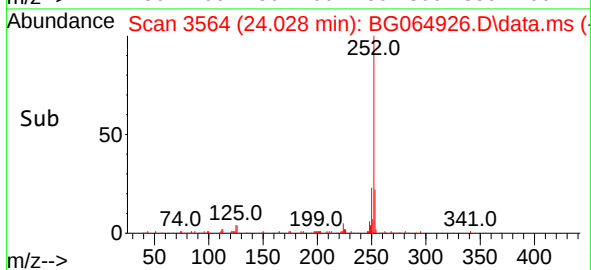
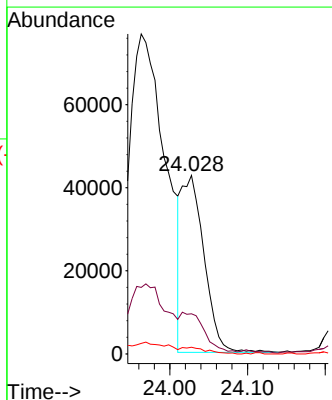
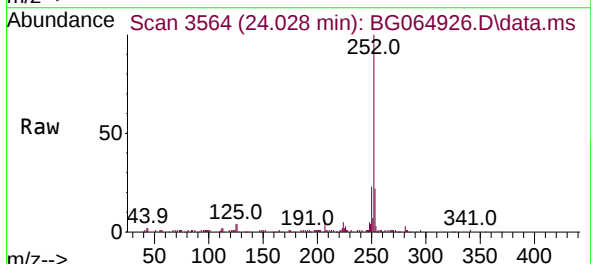
Manual Integrations
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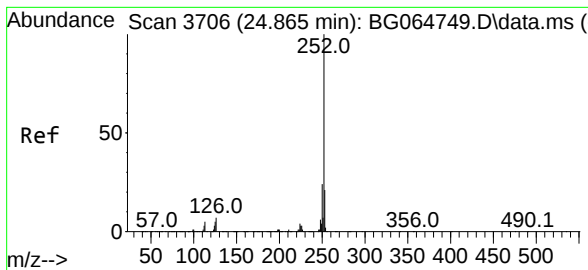
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025



#89
Benzo(k)fluoranthene
Concen: 5.276 ng m
RT: 24.028 min Scan# 3564
Delta R.T. -0.021 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

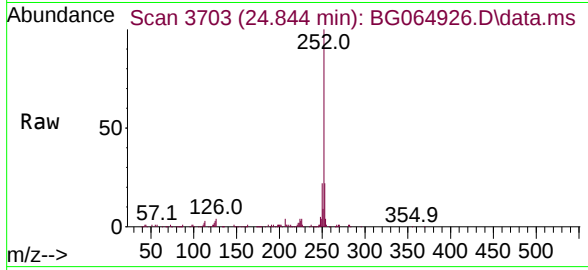
Tgt Ion:252 Resp: 85713
Ion Ratio Lower Upper
252 100
253 22.4 17.8 26.8
125 3.8 4.1 6.1





#90
Benzo(a)pyrene
Concen: 12.259 ng m
RT: 24.844 min Scan# 31
Delta R.T. -0.021 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32

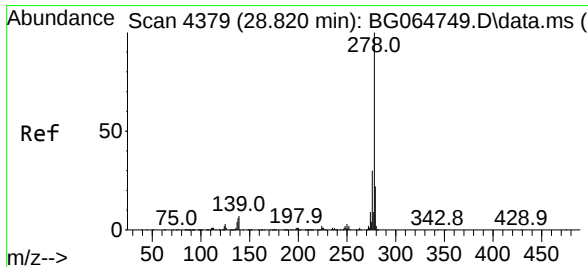
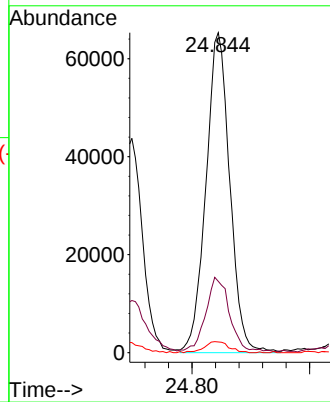
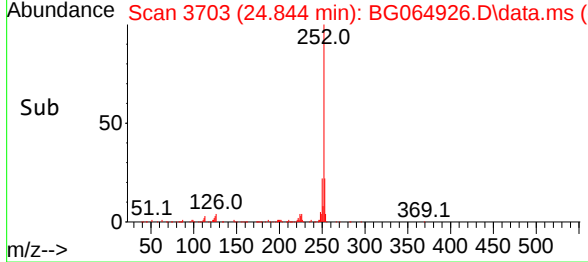
Instrument :
BNA_G
ClientSampleId :
TP-1



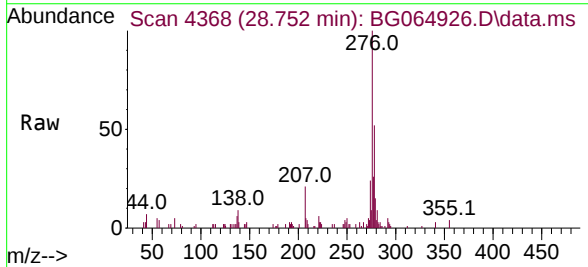
Tgt Ion:252 Resp: 183898
Ion Ratio Lower Upper
252 100
253 22.3 16.9 25.3
125 3.3 4.2 6.4

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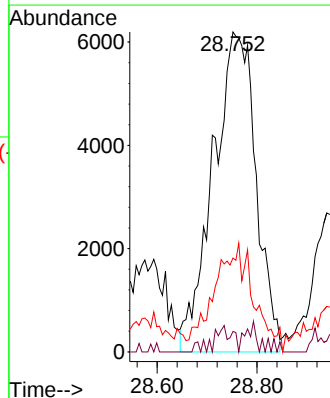
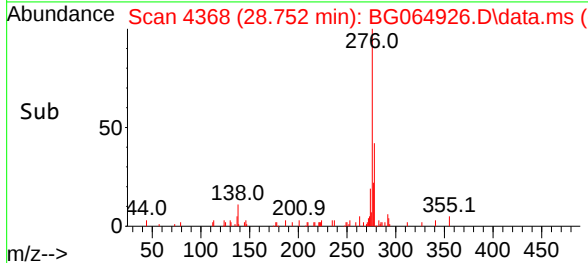
Reviewed By :Jagrut Upadhyay 12/11/2025
Supervised By :Sohil Jodhani 12/12/2025

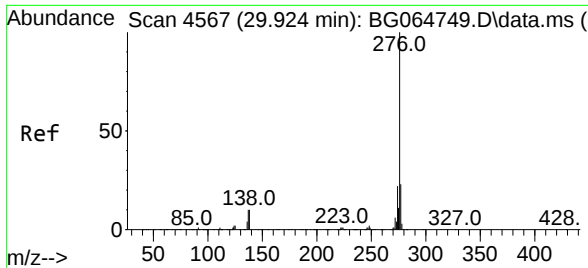


#91
Dibenzo(a,h)anthracene
Concen: 2.585 ng m
RT: 28.752 min Scan# 4368
Delta R.T. -0.068 min
Lab File: BG064926.D
Acq: 10 Dec 2025 18:32



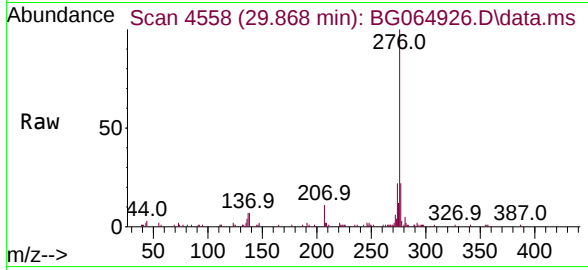
Tgt Ion:278 Resp: 36977
Ion Ratio Lower Upper
278 100
139 6.4 5.8 8.8
279 29.3 17.3 25.9





#92
 Benzo(g,h,i)perylene
 Concen: 9.479 ng
 RT: 29.868 min Scan# 4558
 Delta R.T. -0.056 min
 Lab File: BG064926.D
 Acq: 10 Dec 2025 18:32

Instrument :
 BNA_G
 ClientSampleId :
 TP-1



Tgt Ion: 276 Resp: 130472

Ion	Ratio	Lower	Upper
276	100		
277	22.4	18.0	27.0
138	6.5	8.2	12.2

Manual Integrations
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Reviewed By :Jagrut Upadhyay 12/11/2025
 Supervised By :Sohil Jodhani 12/12/2025

