

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102025\
 Data File : BG064551.D
 Acq On : 20 Oct 2025 16:02
 Operator : RC/JU
 Sample : Q3390-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 340

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025

Quant Time: Oct 20 16:38:41 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	7.825	152	17561	20.000	ng	# 0.00
21) Naphthalene-d8	10.605	136	71490	20.000	ng	# 0.00
39) Acenaphthene-d10	14.459	164	57689	20.000	ng	0.01
64) Phenanthrene-d10	17.226	188	129353	20.000	ng	# 0.04
76) Chrysene-d12	21.439	240	109943	20.000	ng	0.03
86) Perylene-d12	24.430	264	109966	20.000	ng	# 0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	23227	24.478	ng	0.01
7) Phenol-d6	7.003	99	33797	26.504	ng	0.02
23) Nitrobenzene-d5	8.977	82	24238	18.230	ng	0.01
42) 2,4,6-Tribromophenol	15.963	330	24329	23.266	ng	0.03
45) 2-Fluorobiphenyl	13.072	172	65192	16.657	ng	0.00
79) Terphenyl-d14	19.835	244	134149	23.092	ng	0.03
Target Compounds						Qvalue
31) Naphthalene	10.657	128	10498	2.852	ng	# 91
37) 2-Methylnaphthalene	12.273	142	19215	6.800	ng	95
38) 1-Methylnaphthalene	12.485	142	13487m	4.786	ng	
75) Fluoranthene	19.288	202	105596	13.067	ng	78
78) Pyrene	19.647	202	104613	14.662	ng	# 85
81) Benzo(a)anthracene	21.415	228	47857	6.817	ng	# 89
83) Chrysene	21.480	228	50506	7.586	ng	# 91
87) Indeno(1,2,3-cd)pyrene	27.779	276	31912	4.169	ng	# 56
88) Benzo(b)fluoranthene	23.489	252	66431	10.619	ng	# 69
89) Benzo(k)fluoranthene	23.548	252	18666m	2.962	ng	
90) Benzo(a)pyrene	24.288	252	41514	7.200	ng	# 69
92) Benzo(g,h,i)perylene	28.842	276	34100m	5.732	ng	

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

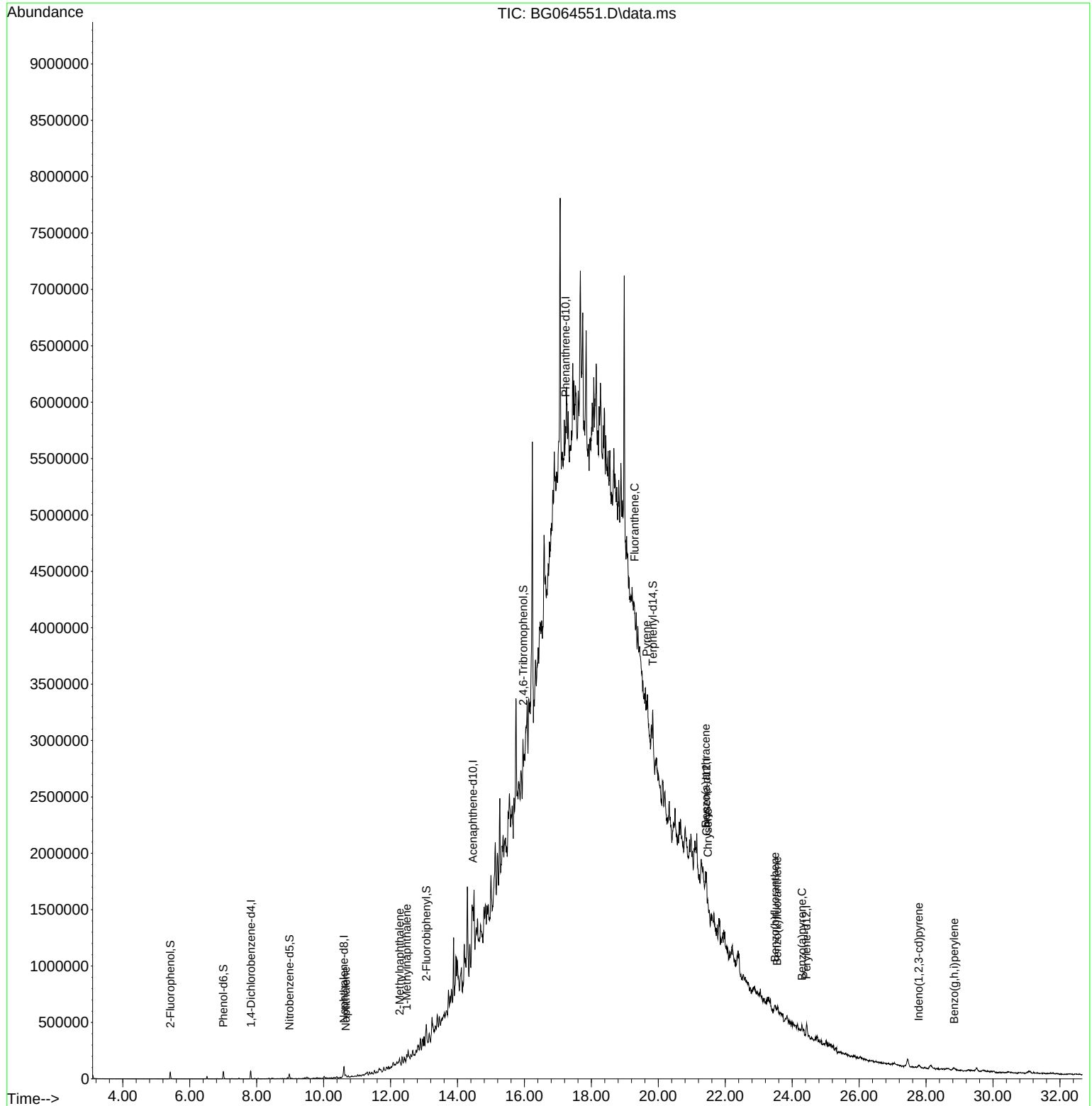
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG102025\
Data File : BG064551.D
Acq On : 20 Oct 2025 16:02
Operator : RC/JU
Sample : Q3390-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

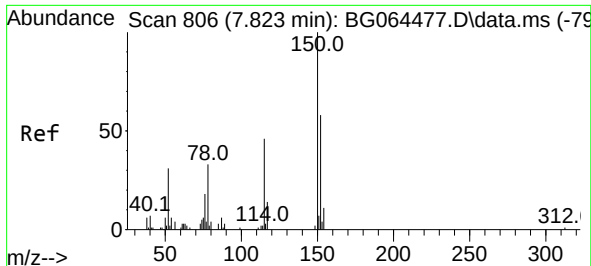
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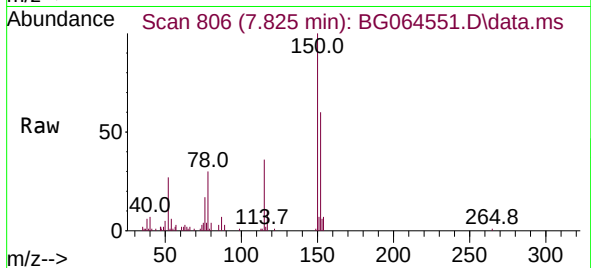
Quant Time: Oct 20 16:38:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 02 16:40:42 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.825 min Scan# 806
Delta R.T. 0.005 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

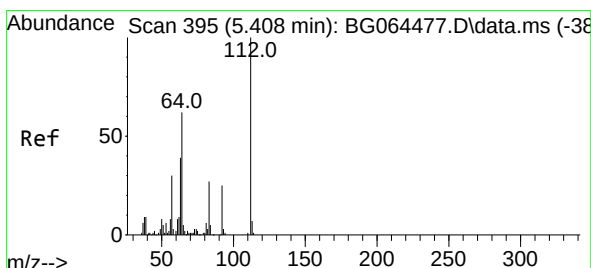
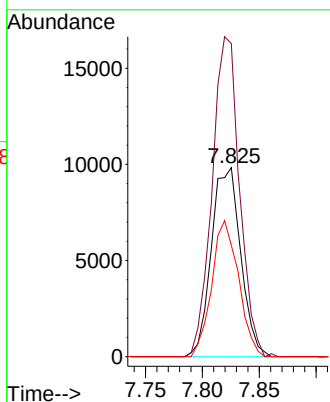
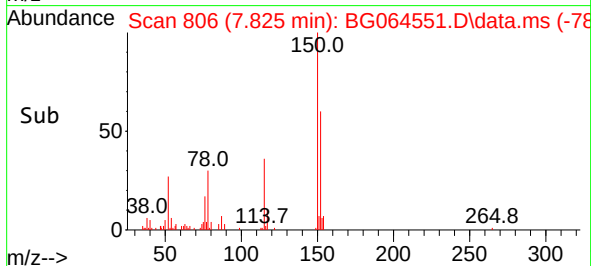
Instrument :
BNA_G
ClientSampleId :
340



Tgt Ion:152 Resp: 17561
Ion Ratio Lower Upper
152 100
150 165.5 138.6 207.8
115 58.8 63.4 95.2

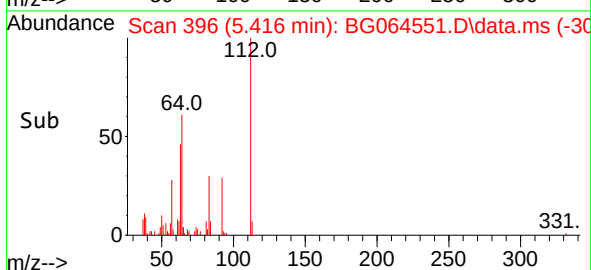
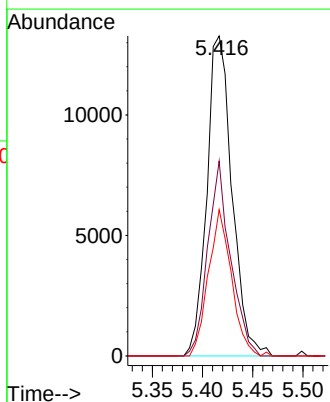
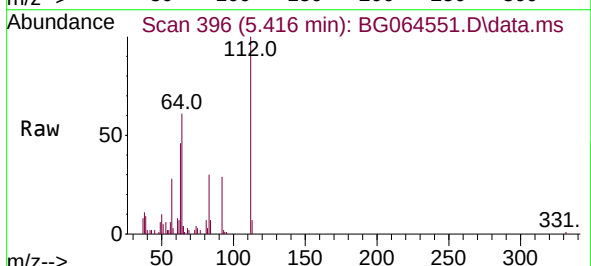
Manual Integrations
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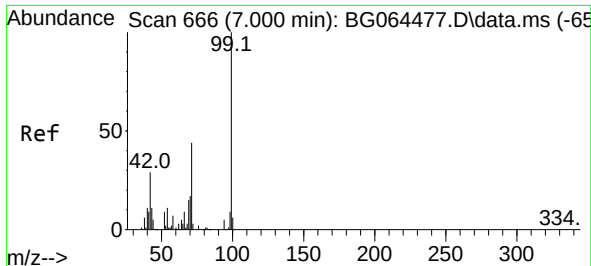
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#5
2-Fluorophenol
Concen: 24.478 ng
RT: 5.416 min Scan# 396
Delta R.T. 0.011 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

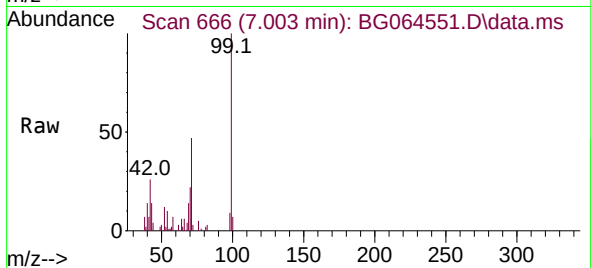
Tgt Ion:112 Resp: 23227
Ion Ratio Lower Upper
112 100
64 60.9 49.8 74.8
63 45.7 31.3 46.9





#7
Phenol-d6
Concen: 26.504 ng
RT: 7.003 min Scan# 60
Delta R.T. 0.017 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

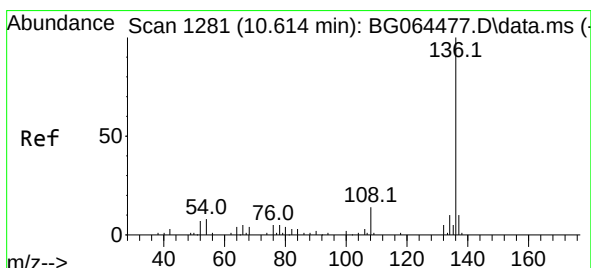
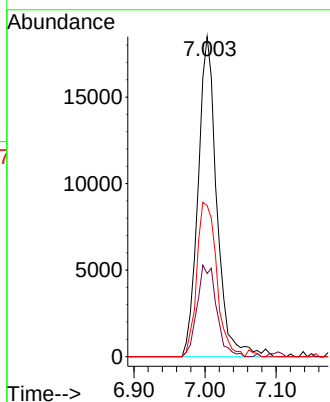
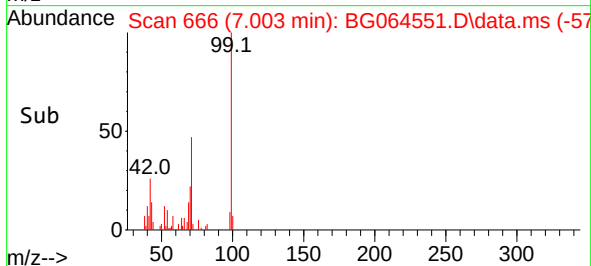
Instrument :
BNA_G
ClientSampleId :
340



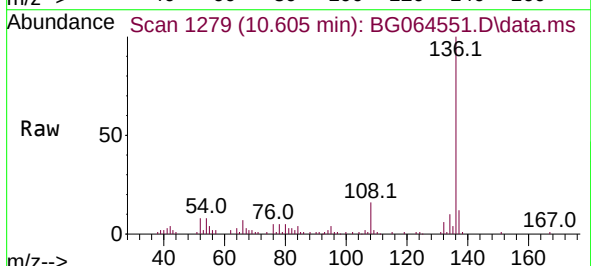
Tgt Ion: 99 Resp: 3379
Ion Ratio Lower Upper
99 100
42 26.0 22.9 34.3
71 47.2 35.4 53.2

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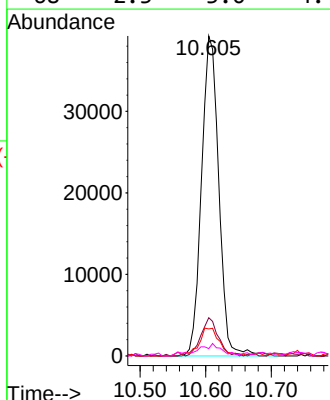
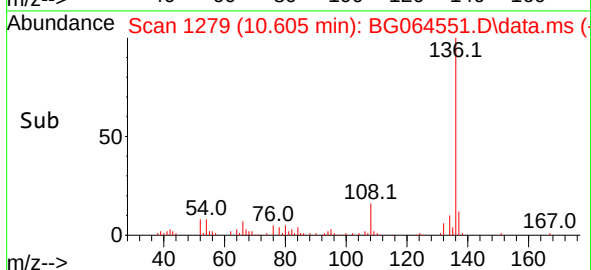
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

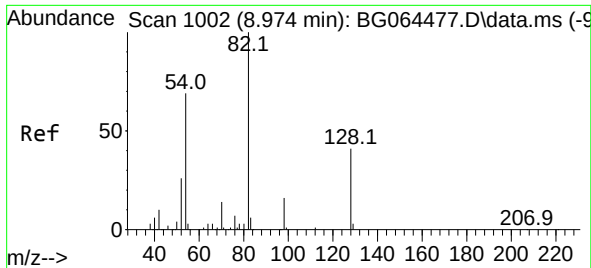


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.605 min Scan# 1279
Delta R.T. -0.001 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02



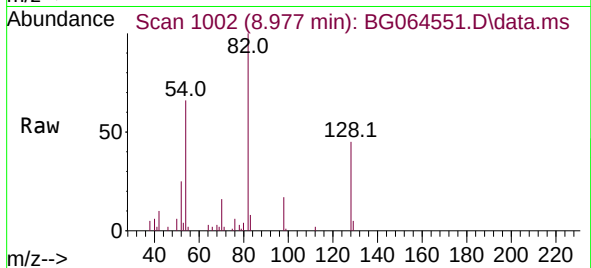
Tgt Ion:136 Resp: 71490
Ion Ratio Lower Upper
136 100
137 11.9 8.3 12.5
54 8.4 6.2 9.4
68 2.3 3.0 4.4#





#23
Nitrobenzene-d5
Concen: 18.230 ng
RT: 8.977 min Scan# 1002
Delta R.T. 0.011 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

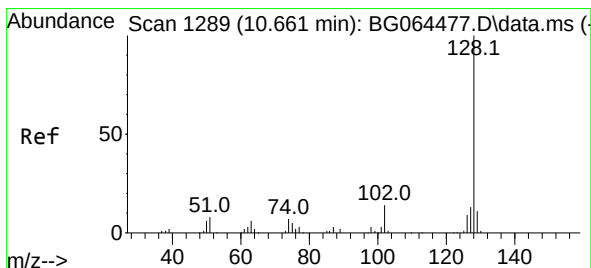
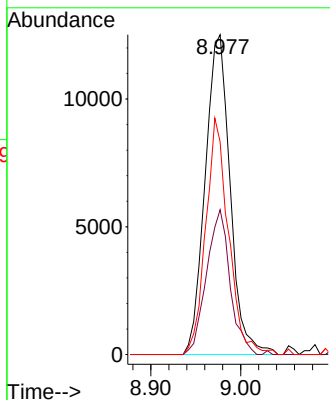
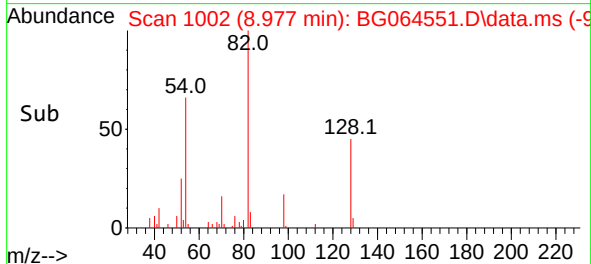
Instrument :
BNA_G
ClientSampleId :
340



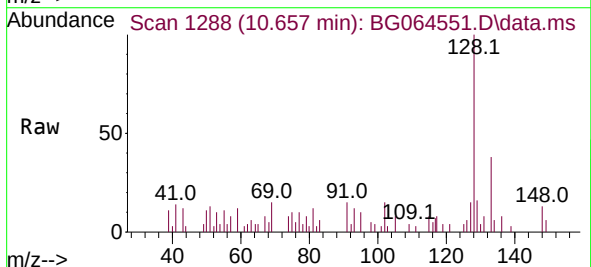
Tgt Ion: 82 Resp: 24238
Ion Ratio Lower Upper
82 100
128 45.3 33.1 49.7
54 66.5 55.4 83.2

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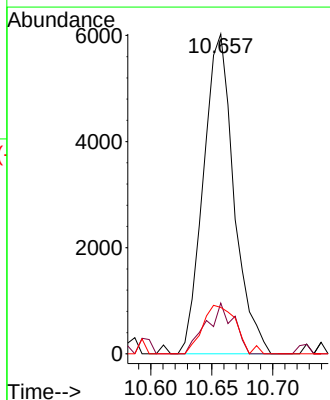
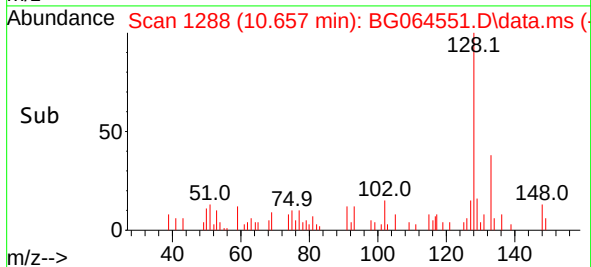
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

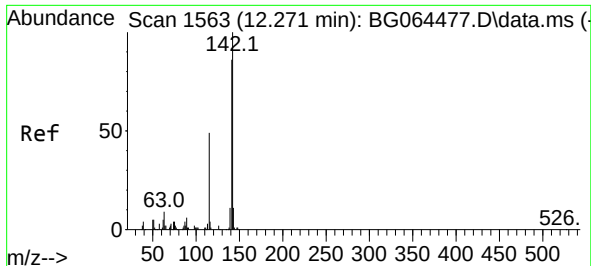


#31
Naphthalene
Concen: 2.852 ng
RT: 10.657 min Scan# 1288
Delta R.T. 0.005 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02



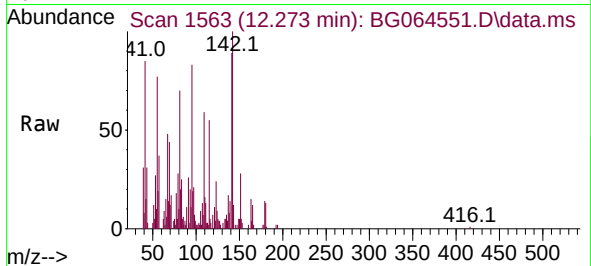
Tgt Ion:128 Resp: 10498
Ion Ratio Lower Upper
128 100
129 15.9 8.7 13.1#
127 14.5 10.2 15.2





#37
2-Methylnaphthalene
Concen: 6.800 ng
RT: 12.273 min Scan# 1563
Delta R.T. 0.005 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

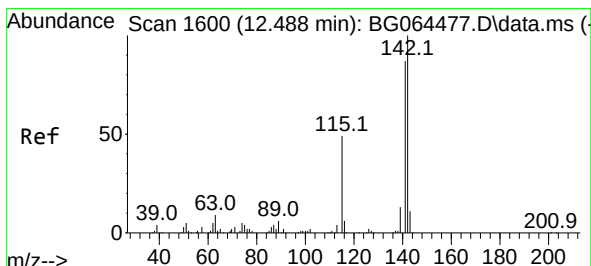
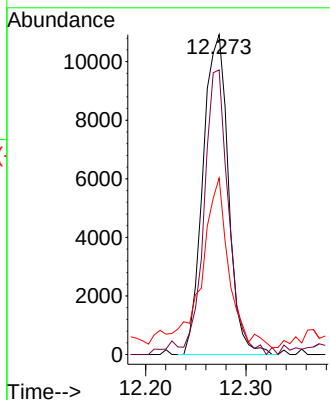
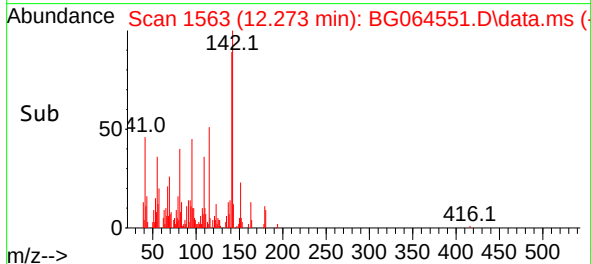
Instrument :
BNA_G
ClientSampleId :
340



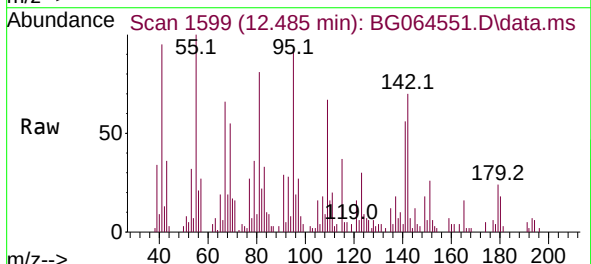
Tgt Ion:142 Resp: 19215
Ion Ratio Lower Upper
142 100
141 89.0 68.7 103.1
115 55.2 39.3 58.9

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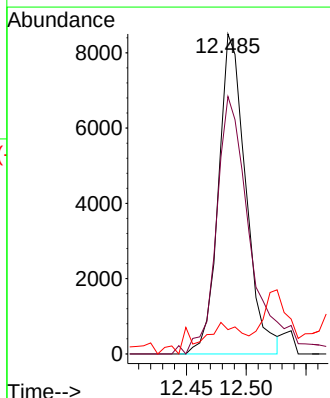
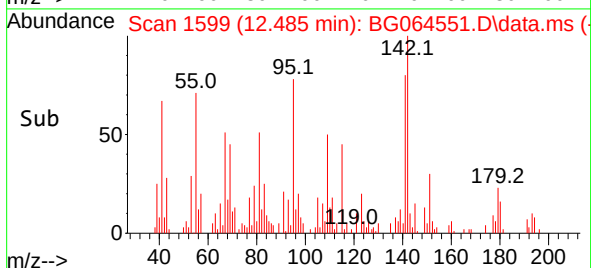
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

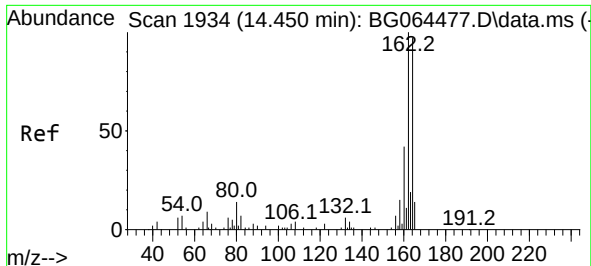


#38
1-Methylnaphthalene
Concen: 4.786 ng m
RT: 12.485 min Scan# 1599
Delta R.T. -0.001 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02



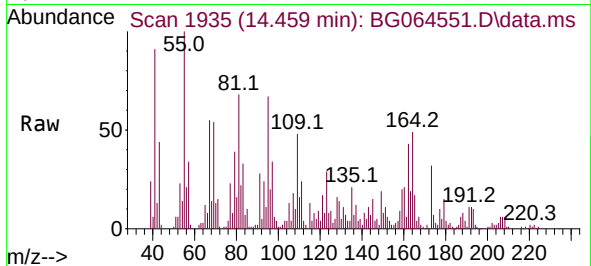
Tgt Ion:142 Resp: 13487
Ion Ratio Lower Upper
142 100
141 80.4 69.8 104.8
116 7.6 4.6 6.8#





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.459 min Scan# 1935
Delta R.T. 0.011 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

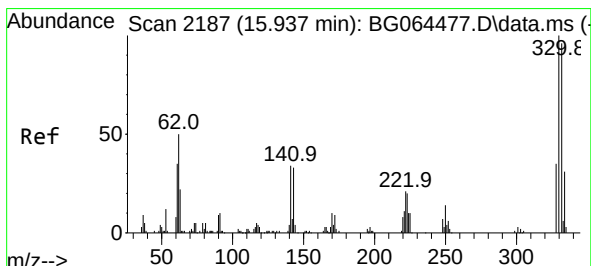
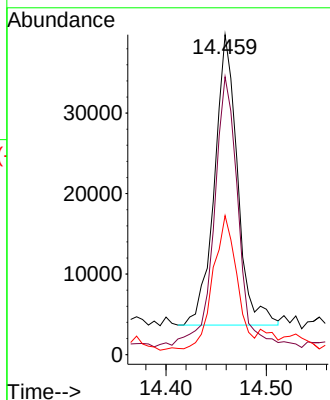
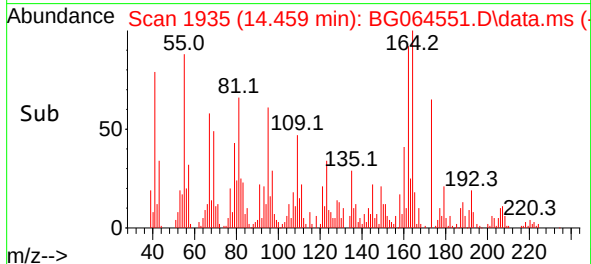
Instrument :
BNA_G
ClientSampleId :
340



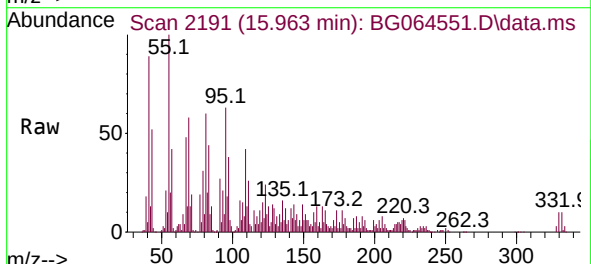
Tgt Ion:164 Resp: 57689
Ion Ratio Lower Upper
164 100
162 86.8 82.2 123.2
160 43.4 34.3 51.5

Manual Integrations
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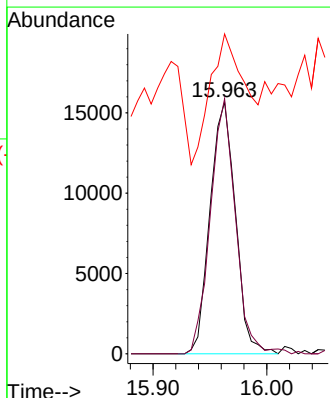
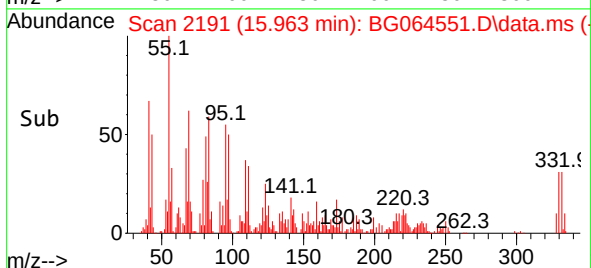
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

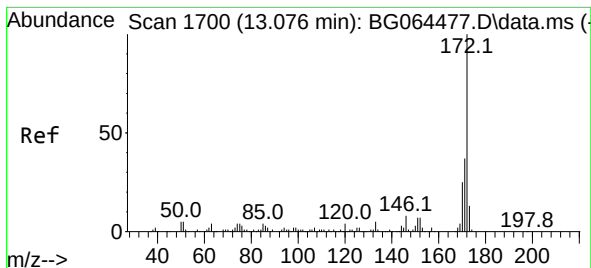


#42
2,4,6-Tribromophenol
Concen: 23.266 ng
RT: 15.963 min Scan# 2191
Delta R.T. 0.028 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02



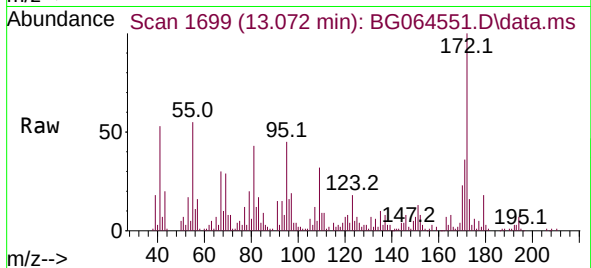
Tgt Ion:330 Resp: 24329
Ion Ratio Lower Upper
330 100
332 100.6 77.4 116.0
141 72.4 25.8 38.6#





#45
2-Fluorobiphenyl
Concen: 16.657 ng
RT: 13.072 min Scan# 1699
Delta R.T. 0.005 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

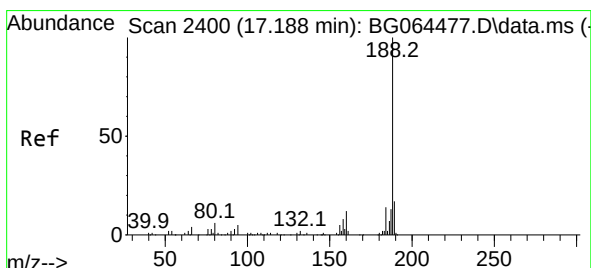
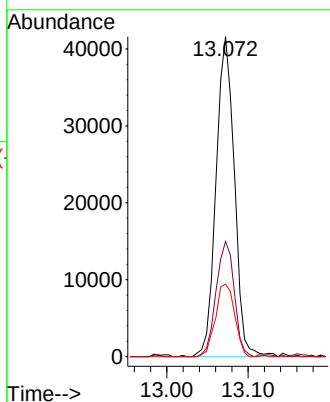
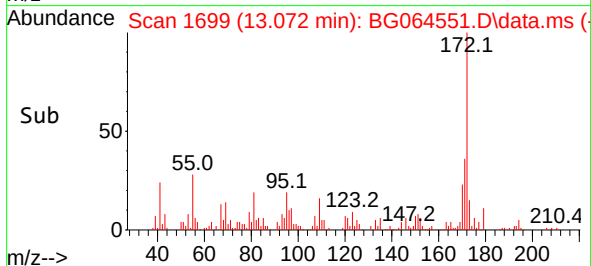
Instrument :
BNA_G
ClientSampleId :
340



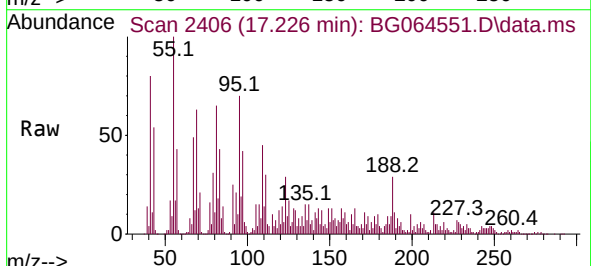
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Ion Ratio Lower Upper
172 100
171 36.0 29.6 44.4
170 22.6 20.2 30.2

Manual Integrations
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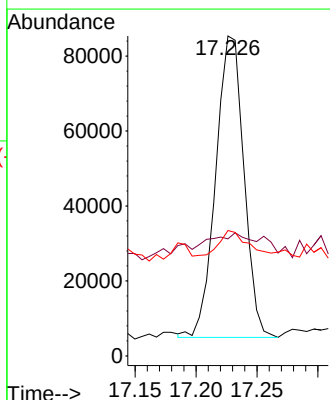
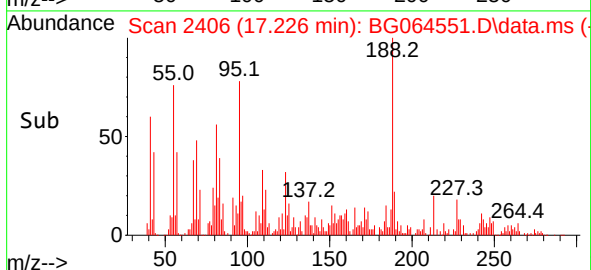
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

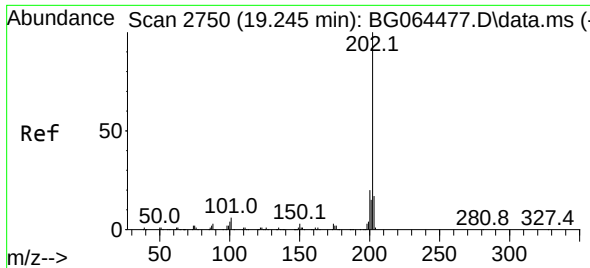


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.226 min Scan# 2406
Delta R.T. 0.040 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02



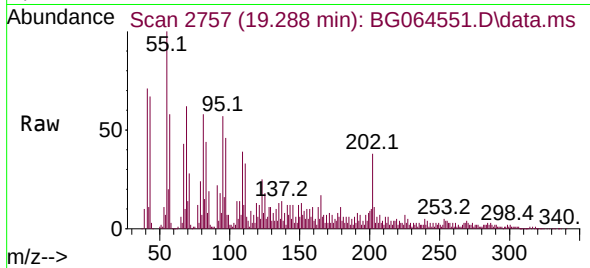
Tgt Ion:188 Resp: 129353
Ion Ratio Lower Upper
188 100
94 36.6 3.7 5.5#
80 39.2 4.5 6.7#





#75
Fluoranthene
Concen: 13.067 ng
RT: 19.288 min Scan# 21
Delta R.T. 0.052 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

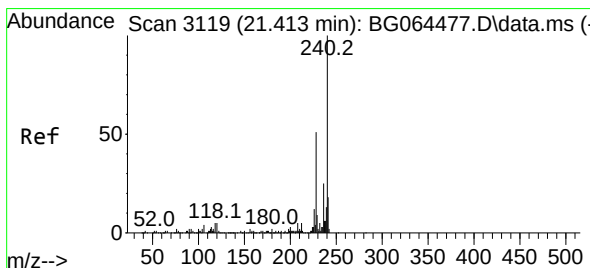
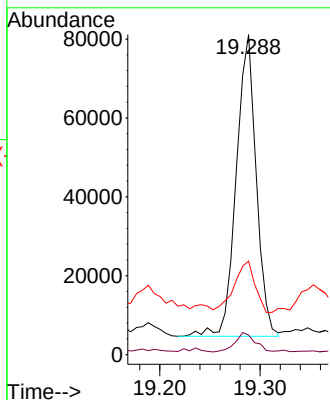
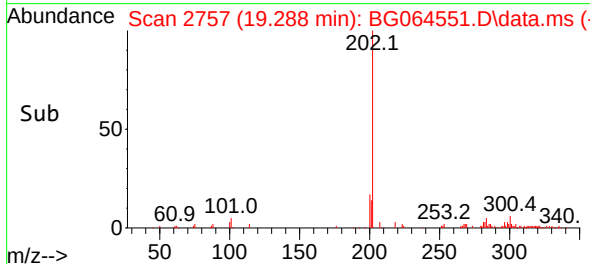
Instrument :
BNA_G
ClientSampleId :
340



Tgt Ion:202 Resp: 105596
Ion Ratio Lower Upper
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101 6.1 0.0 25.7
203 29.2 0.0 36.6

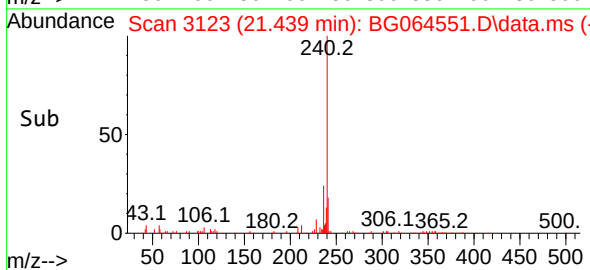
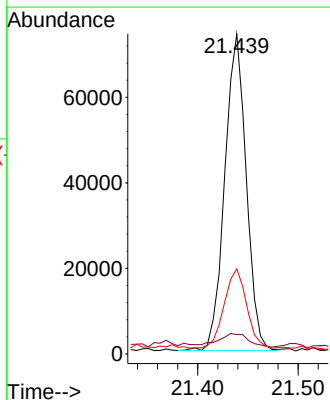
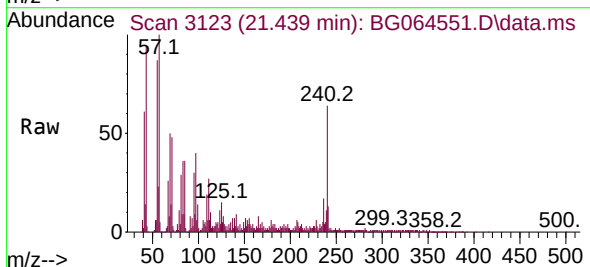
Manual Integrations
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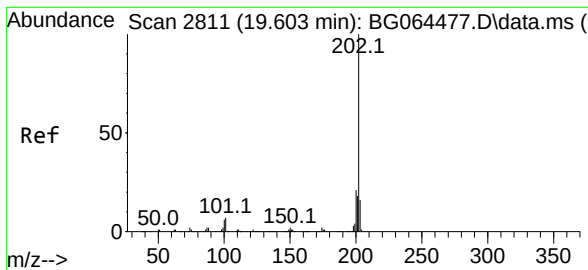
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.439 min Scan# 3123
Delta R.T. 0.029 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

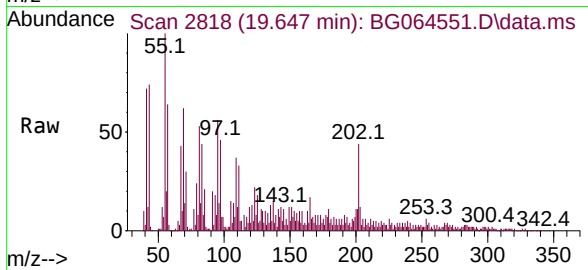
Tgt Ion:240 Resp: 109943
Ion Ratio Lower Upper
240 100
120 6.1 4.3 6.5
236 26.6 20.4 30.6





#78
 Pyrene
 Concen: 14.662 ng
 RT: 19.647 min Scan# 2811
 Delta R.T. 0.046 min
 Lab File: BG064551.D
 Acq: 20 Oct 2025 16:02

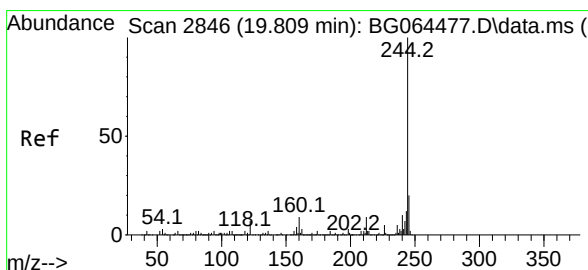
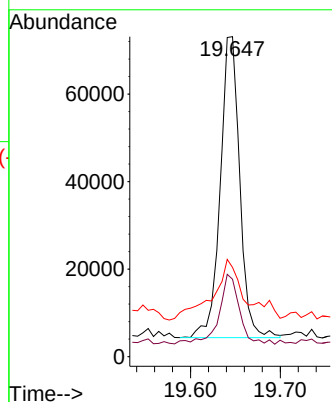
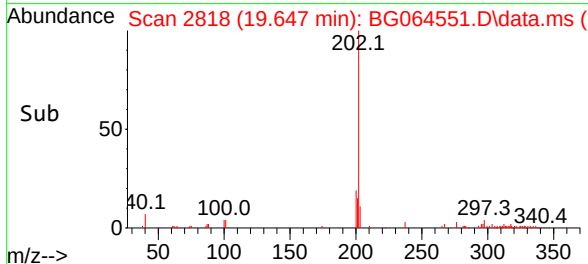
Instrument :
 BNA_G
 ClientSampleId :
 340



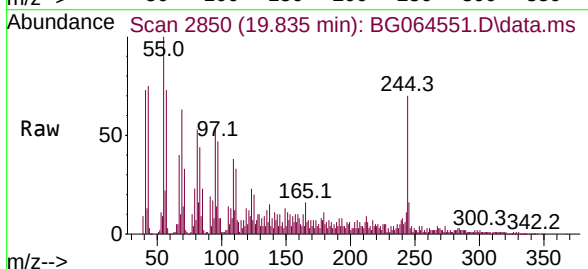
Tgt Ion:202 Resp: 104613
 Ion Ratio Lower Upper
 202 100
 200 24.2 17.0 25.4
 203 27.9 13.0 19.4

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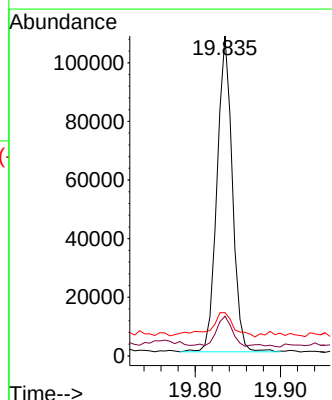
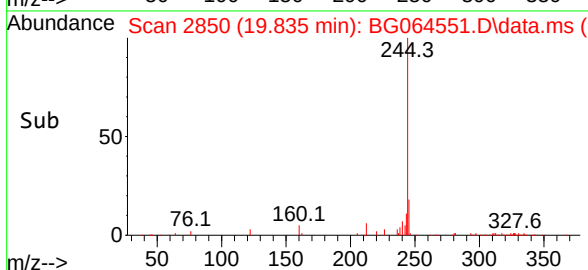
Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025

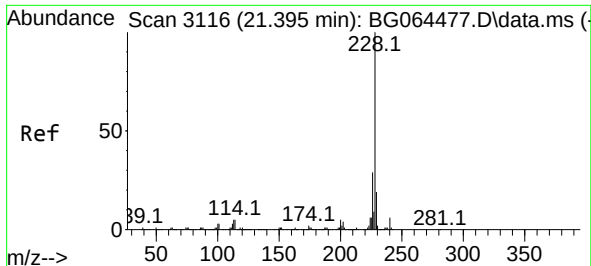


#79
 Terphenyl-d14
 Concen: 23.092 ng
 RT: 19.835 min Scan# 2850
 Delta R.T. 0.028 min
 Lab File: BG064551.D
 Acq: 20 Oct 2025 16:02



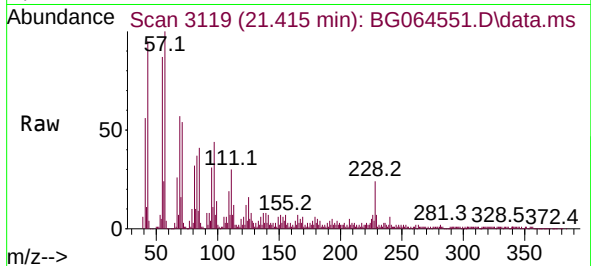
Tgt Ion:244 Resp: 134149
 Ion Ratio Lower Upper
 244 100
 212 12.4 7.0 10.6#
 122 13.5 5.6 8.4#





#81
Benzo(a)anthracene
Concen: 6.817 ng
RT: 21.415 min Scan# 3116
Delta R.T. 0.023 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

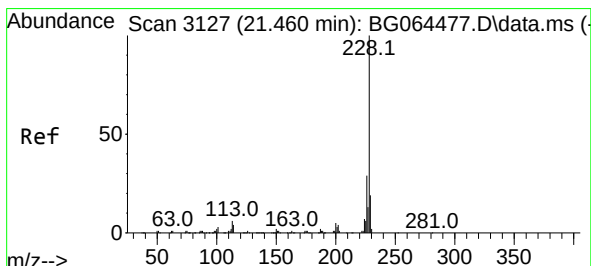
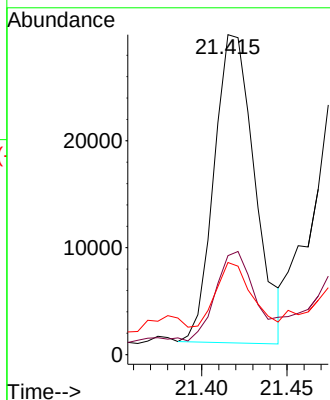
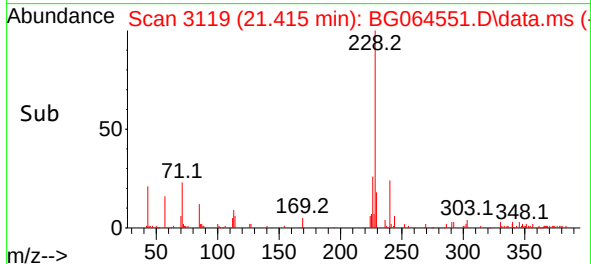
Instrument :
BNA_G
ClientSampleId :
340



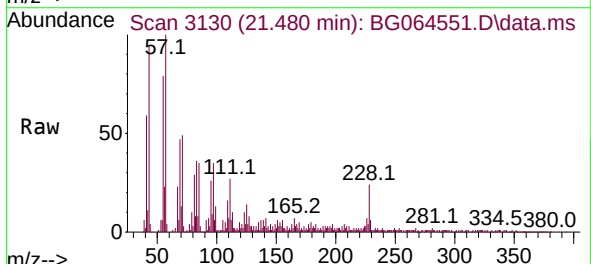
Tgt Ion:228 Resp: 4785
Ion Ratio Lower Upper
228 100
226 30.9 22.8 34.2
229 28.8 15.2 22.8

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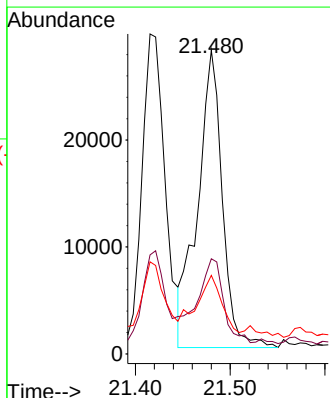
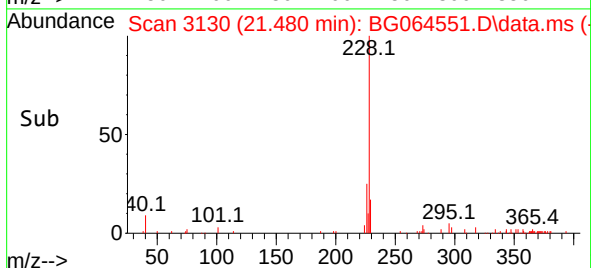
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

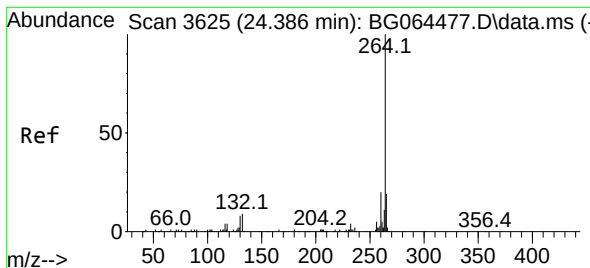


#83
Chrysene
Concen: 7.586 ng
RT: 21.480 min Scan# 3130
Delta R.T. 0.028 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02



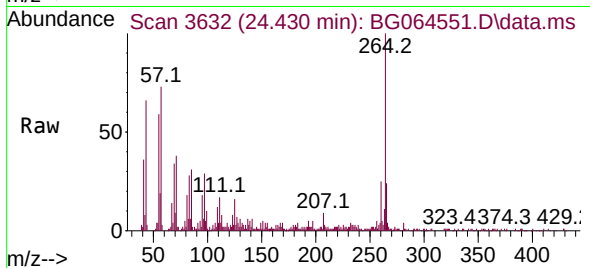
Tgt Ion:228 Resp: 50506
Ion Ratio Lower Upper
228 100
226 31.4 22.8 34.2
229 25.9 15.4 23.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.430 min Scan# 30
Delta R.T. 0.040 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

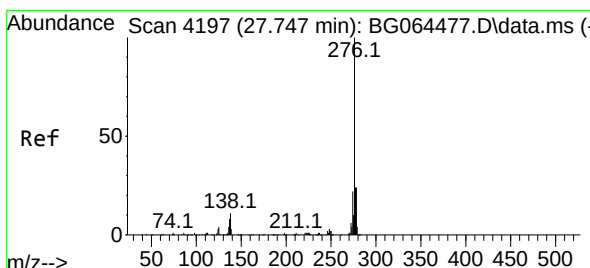
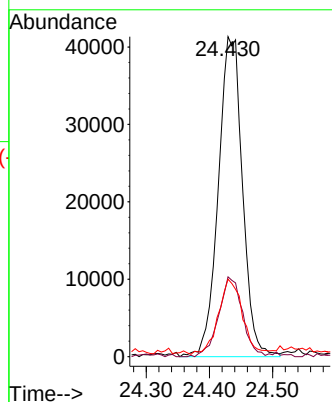
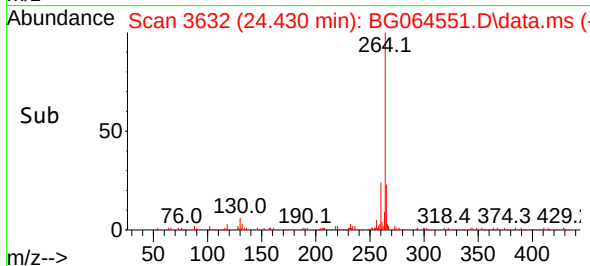
Instrument :
BNA_G
ClientSampleId :
340



Tgt Ion:264 Resp: 109966
Ion Ratio Lower Upper
264 100
260 24.9 16.2 24.4#
265 24.2 15.0 22.4#

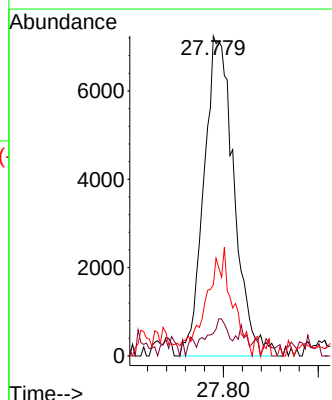
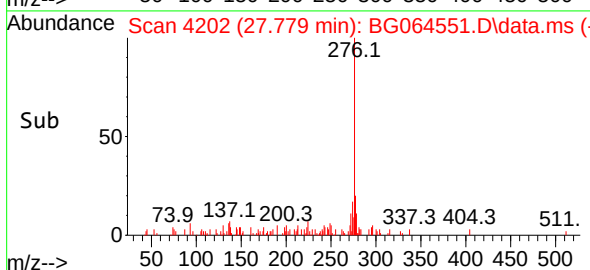
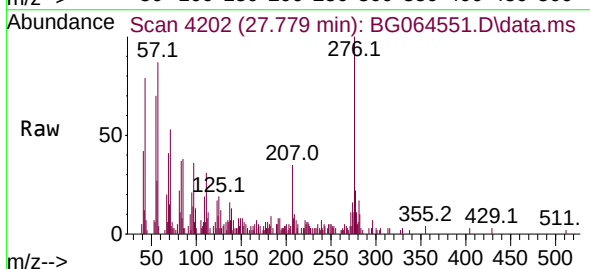
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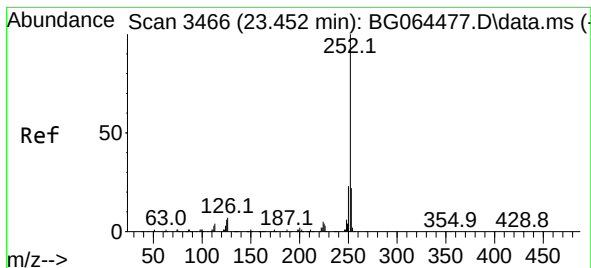
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.169 ng
RT: 27.779 min Scan# 4202
Delta R.T. 0.046 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion:276 Resp: 31912
Ion Ratio Lower Upper
276 100
138 0.0 10.8 16.2#
277 0.0 20.3 30.5#





#88

Benzo(b)fluoranthene

Concen: 10.619 ng

RT: 23.489 min Scan# 3466

Delta R.T. 0.040 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

Instrument :

BNA_G

ClientSampleId :

340

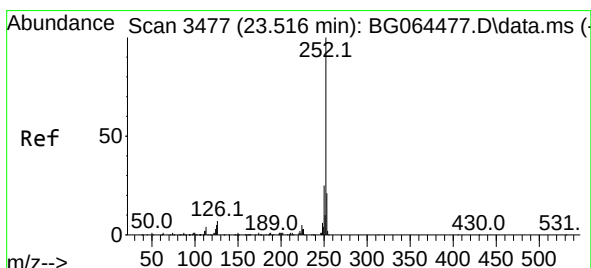
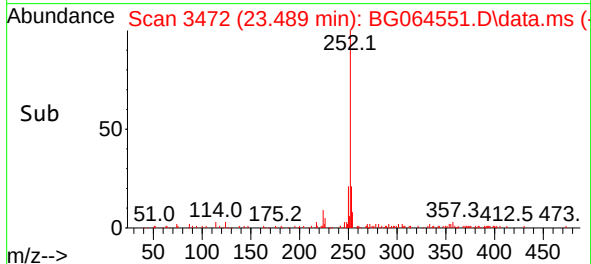
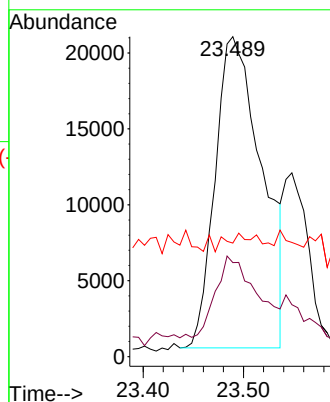
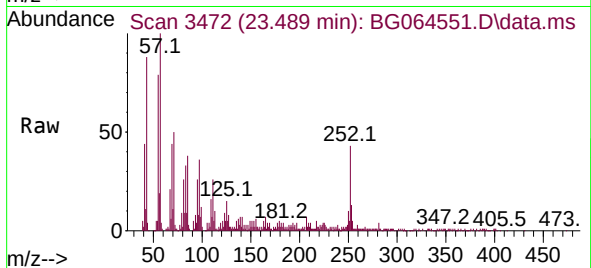
Tgt Ion:	252	Resp:	6643
Ion Ratio	Lower	Upper	
252	100		
253	29.4	17.5	26.3
125	35.5	4.5	6.7

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#89

Benzo(k)fluoranthene

Concen: 2.962 ng m

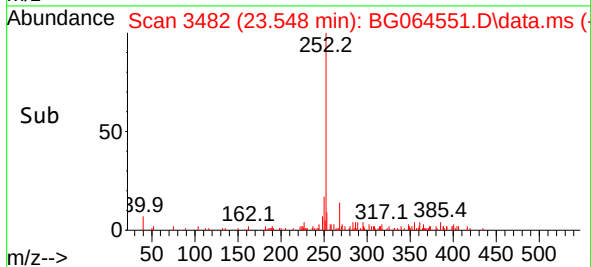
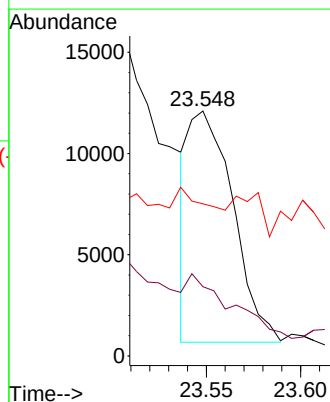
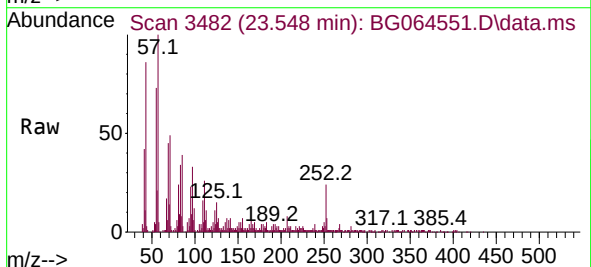
RT: 23.548 min Scan# 3482

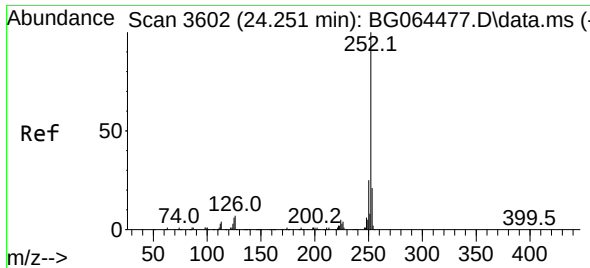
Delta R.T. 0.040 min

Lab File: BG064551.D

Acq: 20 Oct 2025 16:02

Tgt Ion:	252	Resp:	18666
Ion Ratio	Lower	Upper	
252	100		
253	28.3	17.4	26.2
125	62.1	4.0	6.0





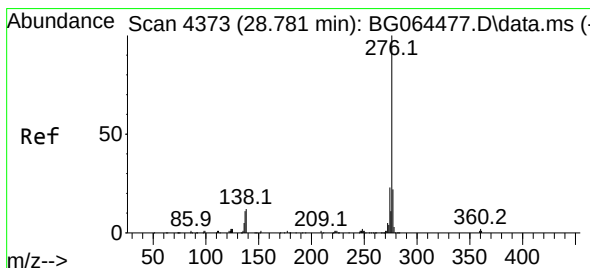
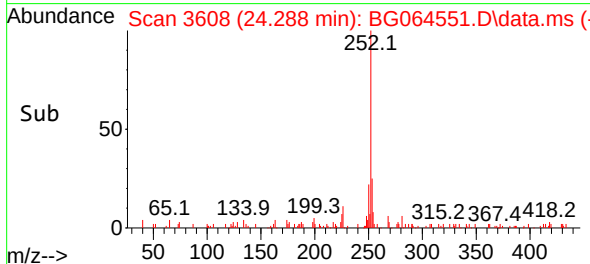
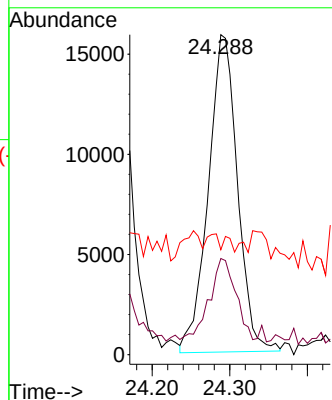
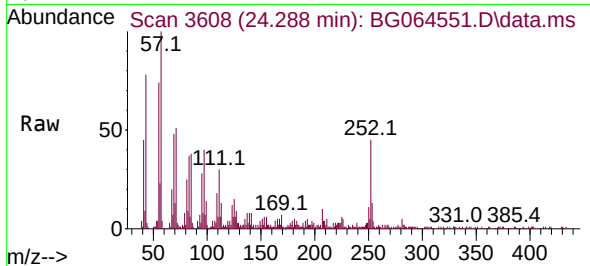
#90
Benzo(a)pyrene
Concen: 7.200 ng
RT: 24.288 min Scan# 3608
Delta R.T. 0.040 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Instrument :
BNA_G
ClientSampleId :
340

Tgt Ion:252 Resp: 41514
Ion Ratio Lower Upper
252 100
253 30.0 17.1 25.7
125 32.8 4.6 6.8

Manual Integrations
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Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#92
Benzo(g,h,i)perylene
Concen: 5.732 ng m
RT: 28.842 min Scan# 4383
Delta R.T. 0.075 min
Lab File: BG064551.D
Acq: 20 Oct 2025 16:02

Tgt Ion:276 Resp: 34100
Ion Ratio Lower Upper
276 100
277 25.1 17.8 26.6
138 10.6 9.4 14.0

