

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090825\
 Data File : BG064312.D
 Acq On : 8 Sep 2025 18:22
 Operator : RC/JU
 Sample : Q3032-04 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SOIL-PILE-2

Manual Integrations
 APPROVED

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

Quant Time: Sep 09 01:31:39 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	23608	20.000	ng	-0.01
21) Naphthalene-d8	10.633	136	100404	20.000	ng	#-0.02
39) Acenaphthene-d10	14.475	164	71106	20.000	ng	0.00
64) Phenanthrene-d10	17.213	188	169678	20.000	ng	-0.01
76) Chrysene-d12	21.444	240	196040	20.000	ng	-0.01
86) Perylene-d12	24.458	264	213880	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.439	112	28512	21.668	ng	0.00
7) Phenol-d6	7.014	99	37695	20.851	ng	-0.02
23) Nitrobenzene-d5	8.999	82	25654	14.250	ng	-0.02
42) 2,4,6-Tribromophenol	15.962	330	24701	26.227	ng	-0.01
45) 2-Fluorobiphenyl	13.095	172	54366	11.670	ng	-0.02
79) Terphenyl-d14	19.834	244	104396	11.110	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	17.254	178	72245	8.073	ng	95
75) Fluoranthene	19.270	202	158061	15.021	ng	98
78) Pyrene	19.628	202	143135	11.589	ng	99
81) Benzo(a)anthracene	21.426	228	86735	6.916	ng	98
83) Chrysene	21.491	228	77728	6.456	ng	97
87) Indeno(1,2,3-cd)pyrene	27.824	276	50442	3.453	ng	# 92
88) Benzo(b)fluoranthene	23.506	252	102309	8.476	ng	97
89) Benzo(k)fluoranthene	23.565	252	36689m	2.983	ng	
90) Benzo(a)pyrene	24.311	252	72935m	6.495	ng	
92) Benzo(g,h,i)perylene	28.888	276	48042	4.210	ng	# 90

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

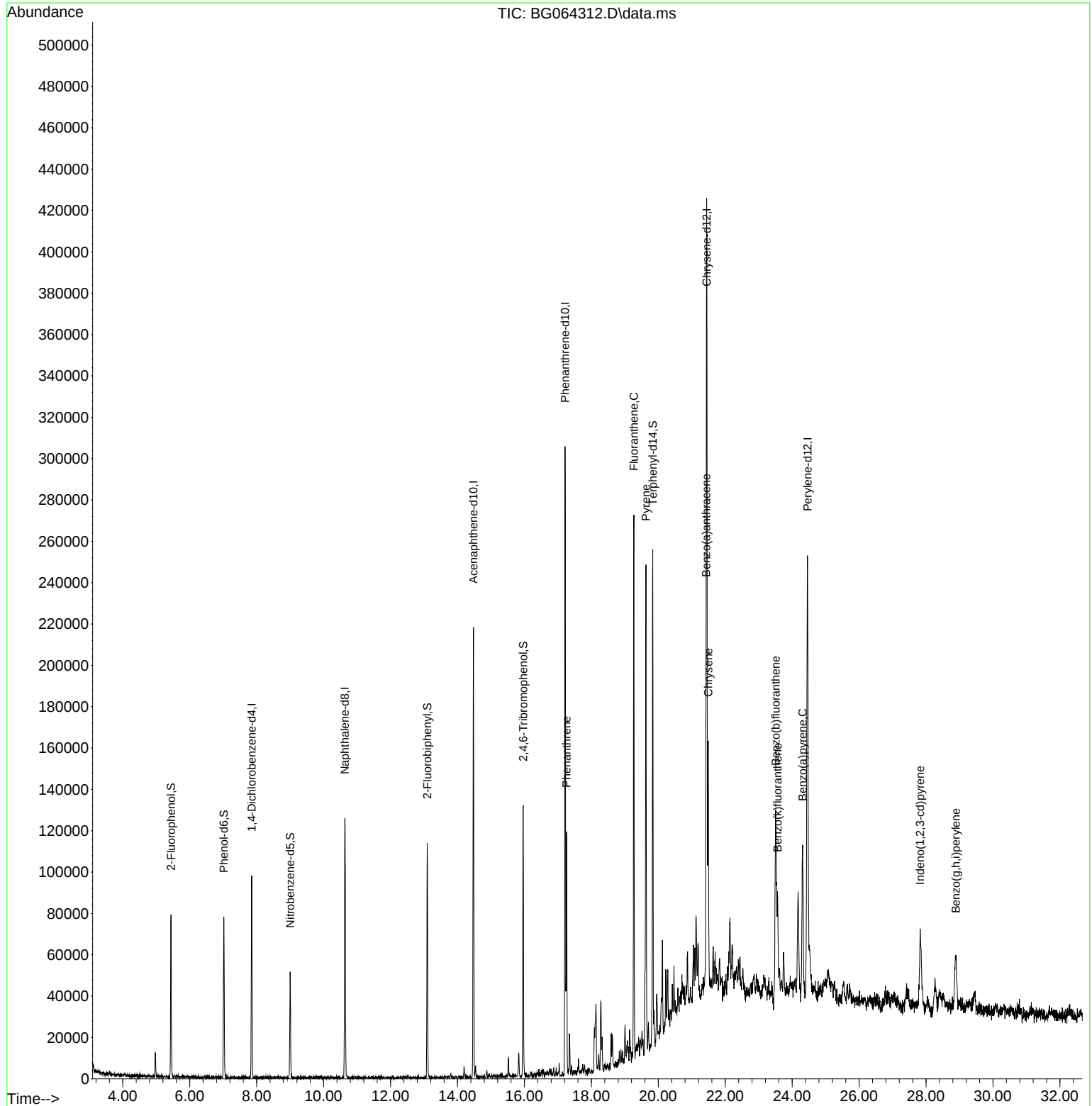
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090825\
Data File : BG064312.D
Acq On : 8 Sep 2025 18:22
Operator : RC/JU
Sample : Q3032-04 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

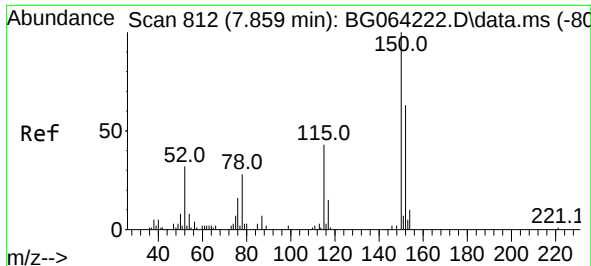
Instrument :
BNA_G
ClientSampleId :
SOIL-PILE-2

Quant Time: Sep 09 01:31:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082825.M
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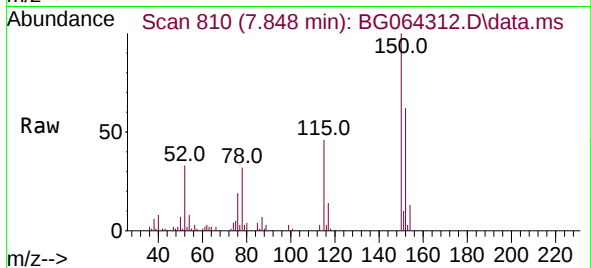
Reviewed By :Rahul Chavli 09/09/2025
Supervised By :Jagrut Upadhyay 09/09/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.848 min Scan# 812
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

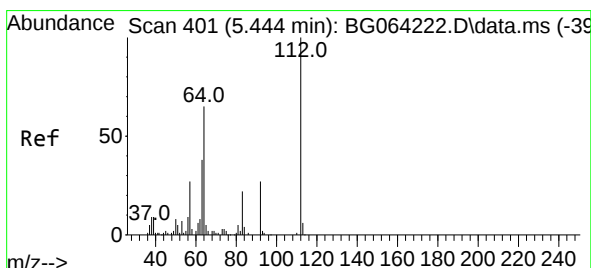
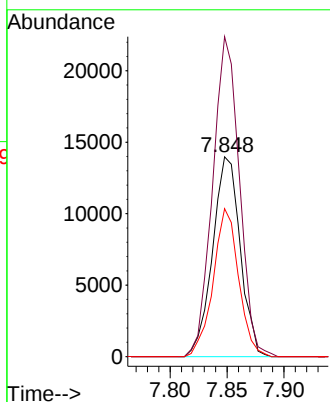
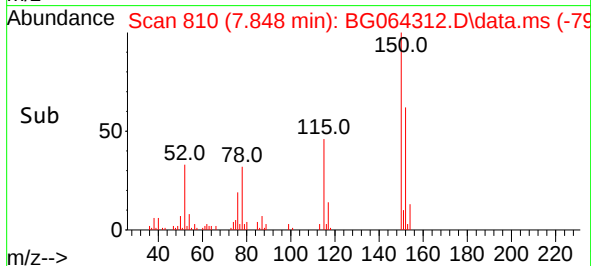
Instrument :
BNA_G
Client SampleId :
SOIL-PILE-2



Tgt Ion:152 Resp: 23608
Ion Ratio Lower Upper
152 100
150 160.1 128.0 192.0
115 74.0 55.7 83.5

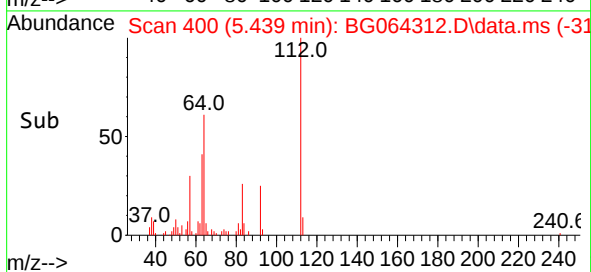
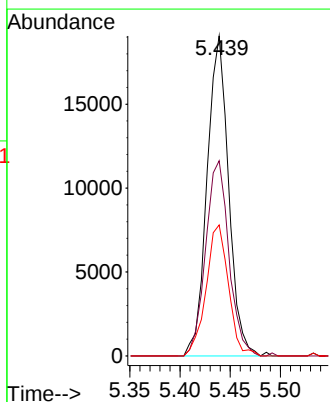
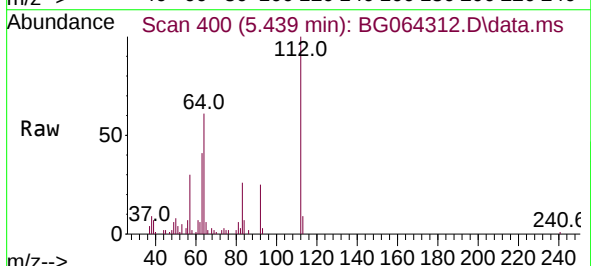
Manual Integrations
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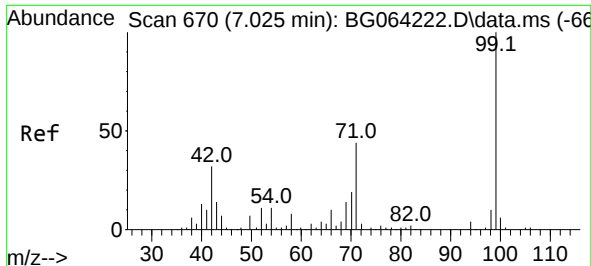
Reviewed By :Rahul Chavli 09/09/2025
Supervised By :Jagrut Upadhyay 09/09/2025



#5
2-Fluorophenol
Concen: 21.668 ng
RT: 5.439 min Scan# 400
Delta R.T. -0.005 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

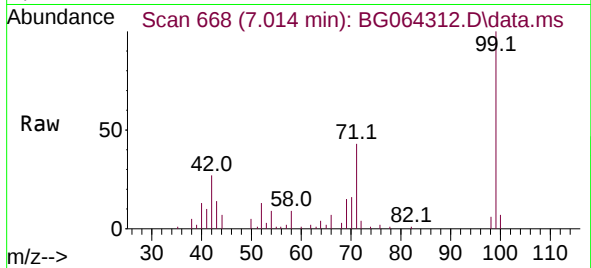
Tgt Ion:112 Resp: 28512
Ion Ratio Lower Upper
112 100
64 61.0 51.8 77.6
63 40.9 30.6 45.8





#7
Phenol-d6
Concen: 20.851 ng
RT: 7.014 min Scan# 60
Delta R.T. -0.017 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

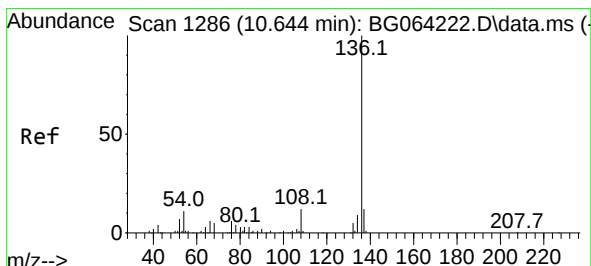
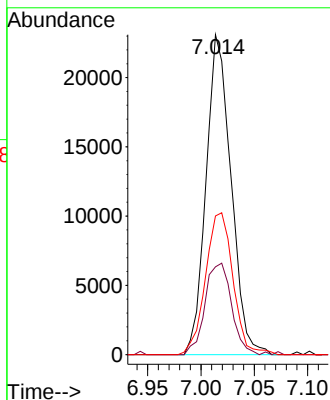
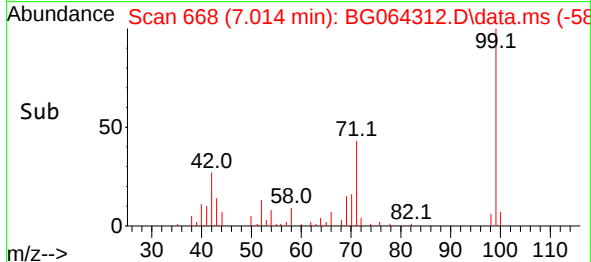
Instrument :
BNA_G
ClientSampleId :
SOIL-PILE-2



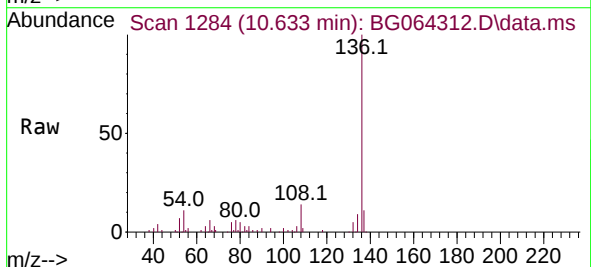
Tgt Ion: 99 Resp: 37695
Ion Ratio Lower Upper
99 100
42 27.4 25.8 38.8
71 43.3 35.2 52.8

Manual Integrations
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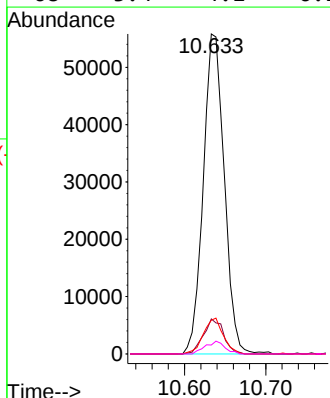
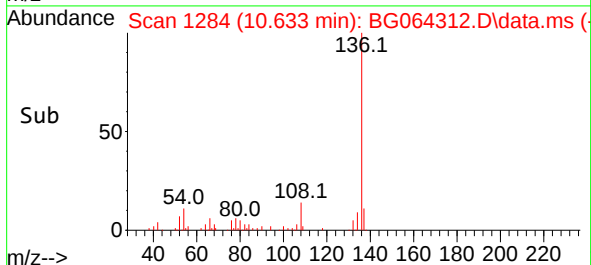
Reviewed By :Rahul Chavli 09/09/2025
Supervised By :Jagrut Upadhyay 09/09/2025

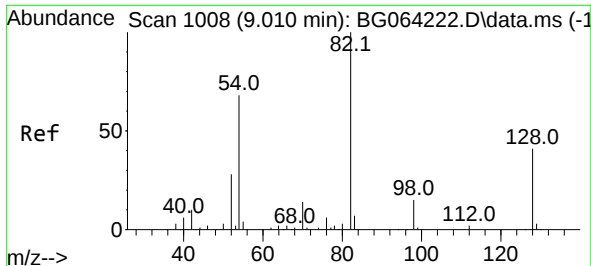


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.633 min Scan# 1284
Delta R.T. -0.017 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22



Tgt Ion:136 Resp: 100404
Ion Ratio Lower Upper
136 100
137 10.9 9.6 14.4
54 10.5 8.8 13.2
68 3.4 4.1 6.1#





#23

Nitrobenzene-d5

Concen: 14.250 ng

RT: 8.999 min Scan# 1006

Delta R.T. -0.017 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

SOIL-PILE-2

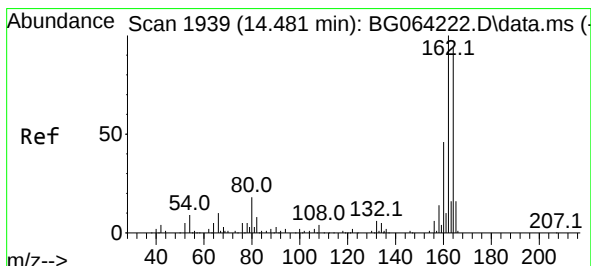
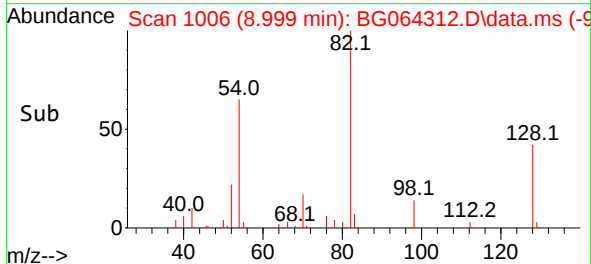
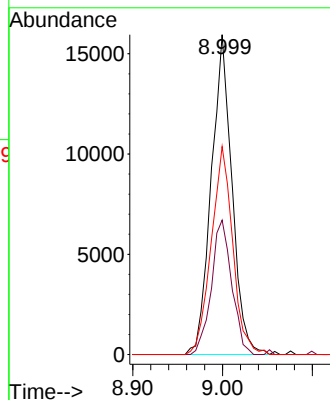
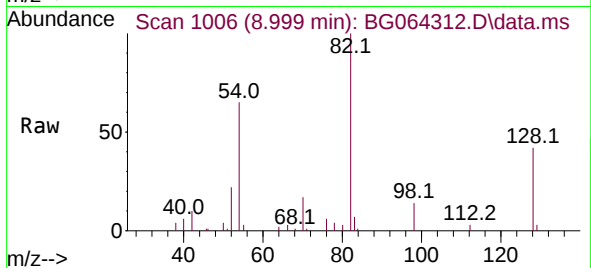
Tgt Ion: 82	Resp: 25654
Ion Ratio	Lower Upper
82 100	
128 42.0	32.6 48.8
54 65.0	54.7 82.1

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

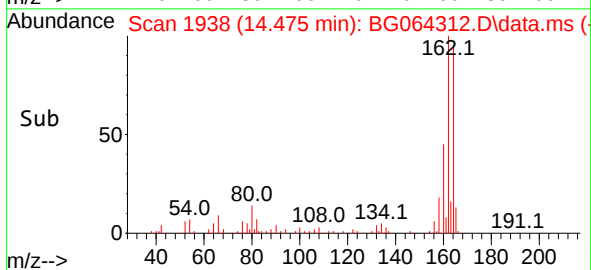
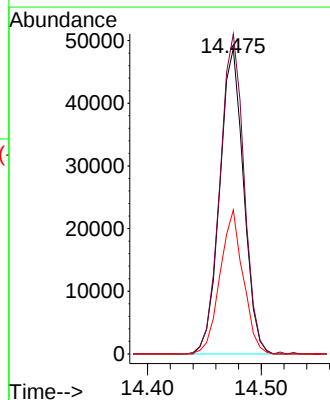
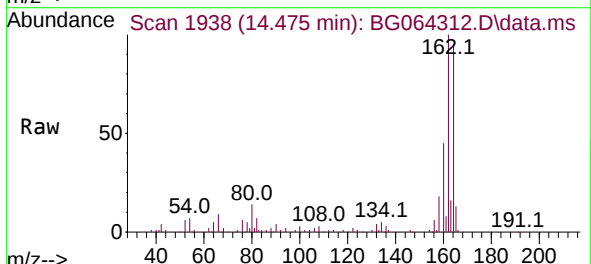
RT: 14.475 min Scan# 1938

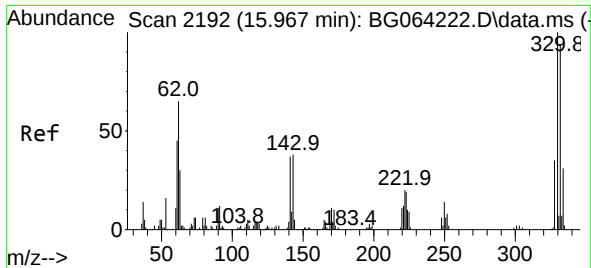
Delta R.T. -0.006 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Tgt Ion:164	Resp: 71106
Ion Ratio	Lower Upper
164 100	
162 104.7	85.4 128.0
160 47.1	39.2 58.8





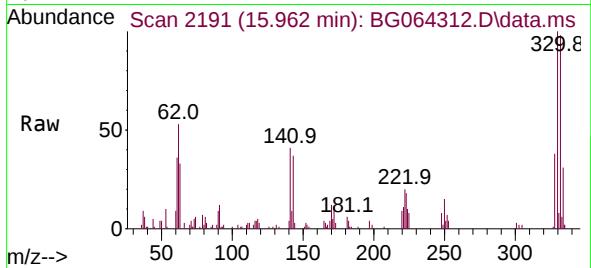
#42
2,4,6-Tribromophenol
Concen: 26.227 ng
RT: 15.962 min Scan# 2192
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

SOIL-PILE-2



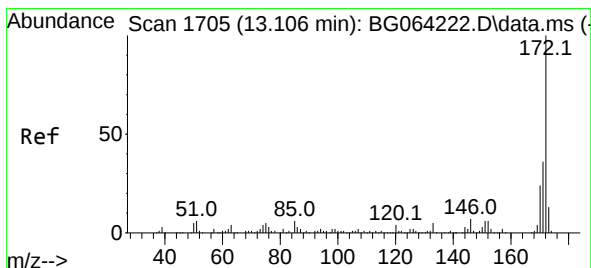
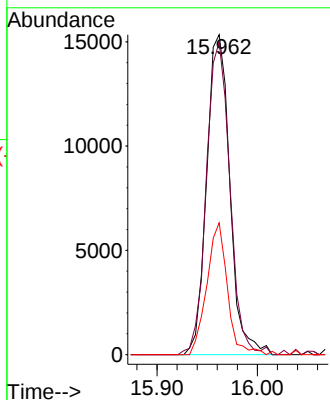
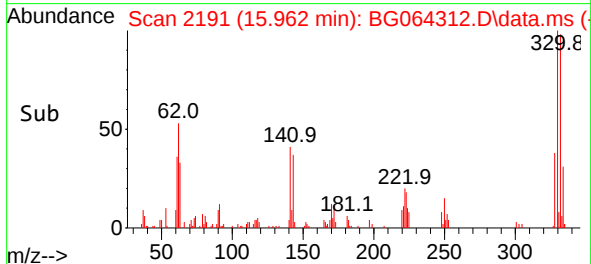
Tgt Ion:330 Resp: 2470
Ion Ratio Lower Upper
330 100
332 98.7 77.6 116.4
141 36.5 29.8 44.6

Manual Integrations

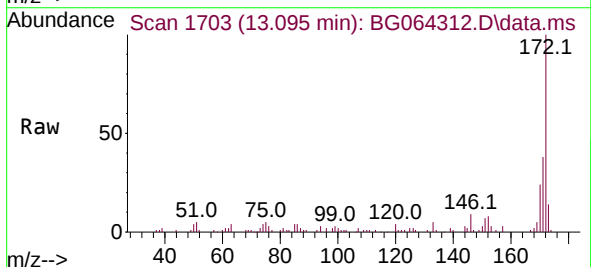
APPROVED

Reviewed By :Rahul Chavli 09/09/2025

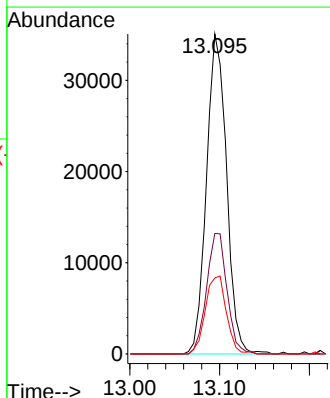
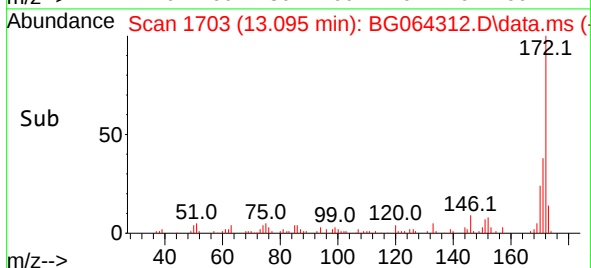
Supervised By :Jagrut Upadhyay 09/09/2025

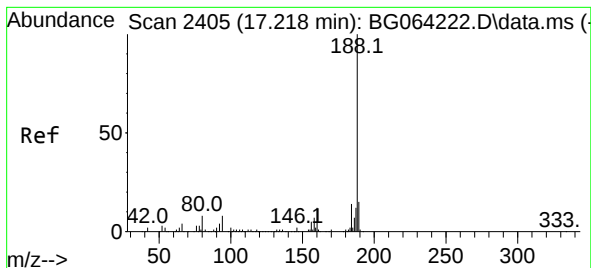


#45
2-Fluorobiphenyl
Concen: 11.670 ng
RT: 13.095 min Scan# 1703
Delta R.T. -0.017 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22



Tgt Ion:172 Resp: 54366
Ion Ratio Lower Upper
172 100
171 37.6 28.7 43.1
170 23.7 19.0 28.6





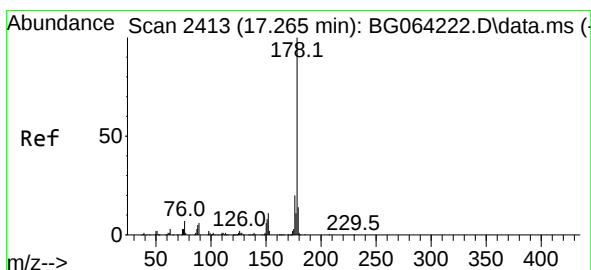
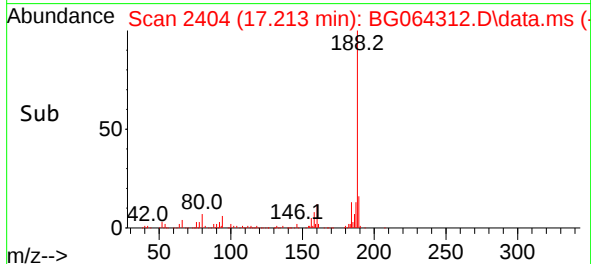
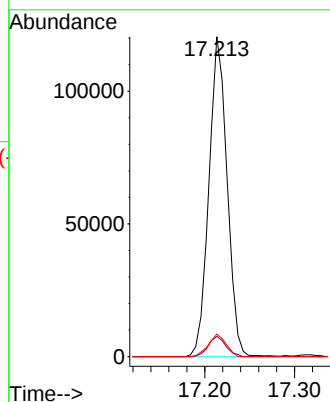
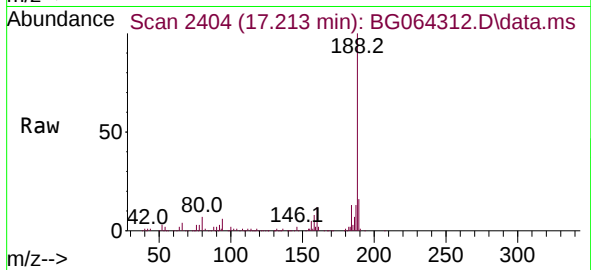
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.213 min Scan# 2405
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Instrument :
BNA_G
ClientSampleId :
SOIL-PILE-2

Tgt Ion:188 Resp: 169678
Ion Ratio Lower Upper
188 100
94 6.3 6.2 9.4
80 7.0 6.8 10.2

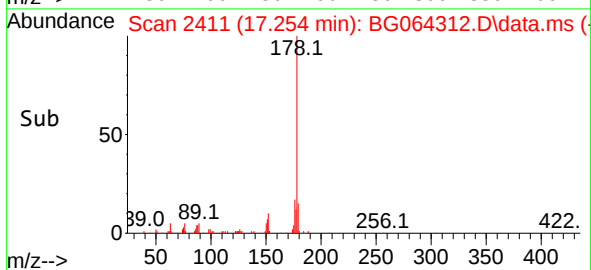
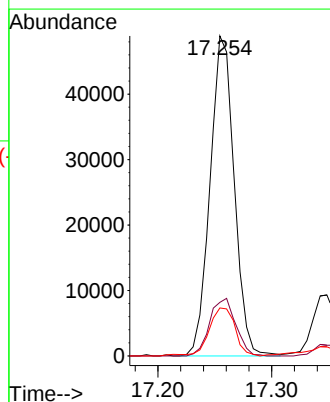
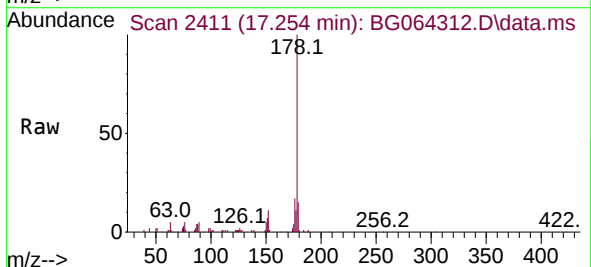
Manual Integrations
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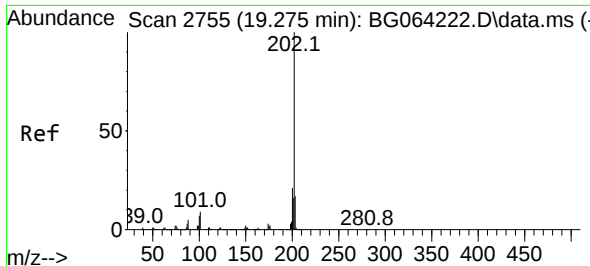
Reviewed By :Rahul Chavli 09/09/2025
Supervised By :Jagrut Upadhyay 09/09/2025



#71
Phenanthrene
Concen: 8.073 ng
RT: 17.254 min Scan# 2411
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Tgt Ion:178 Resp: 72245
Ion Ratio Lower Upper
178 100
176 16.7 15.9 23.9
179 15.0 11.4 17.2





#75
Fluoranthene
Concen: 15.021 ng
RT: 19.270 min Scan# 21
Delta R.T. -0.005 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

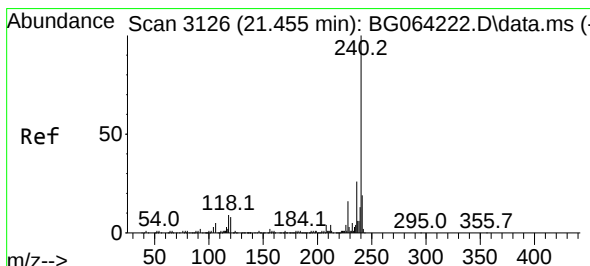
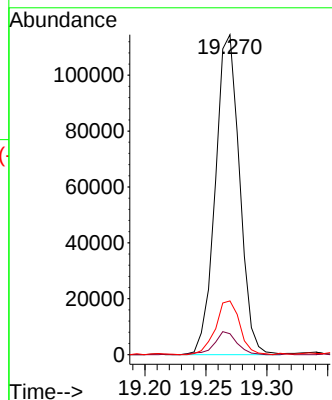
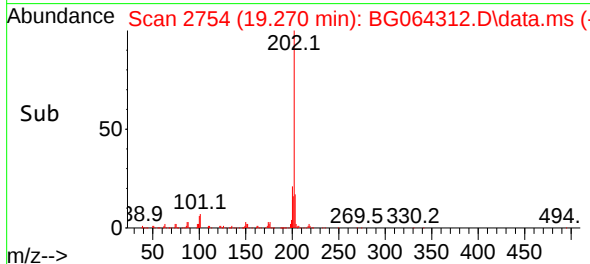
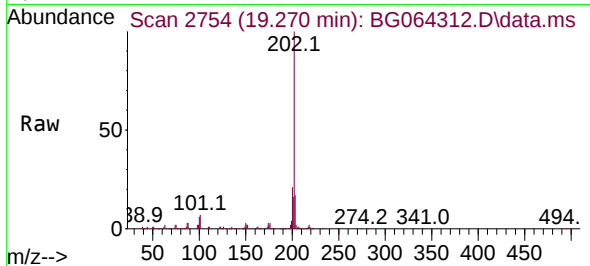
SOIL-PILE-2

Tgt Ion:202 Resp: 158063
Ion Ratio Lower Upper
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101 6.5 0.0 28.7
203 16.8 0.0 36.9

Manual Integrations

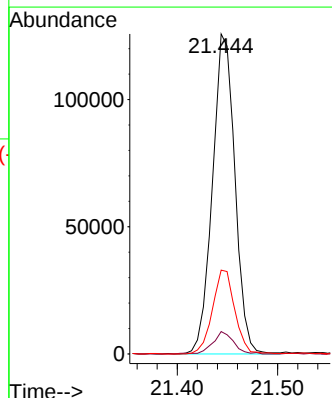
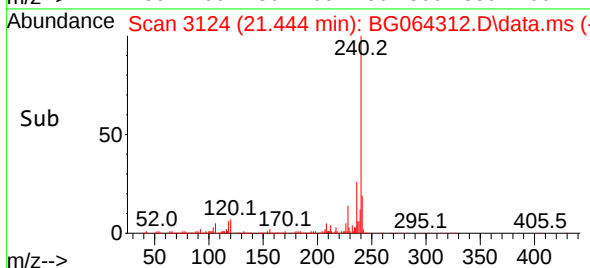
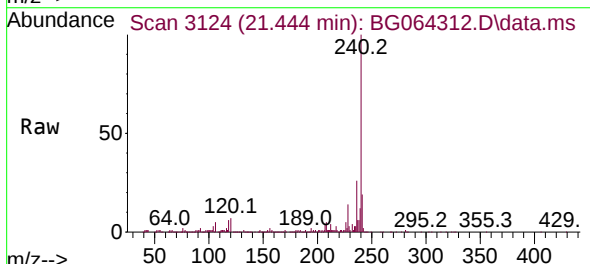
APPROVED

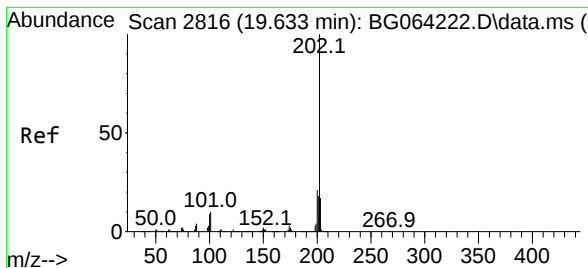
Reviewed By :Rahul Chavli 09/09/2025
Supervised By :Jagrut Upadhyay 09/09/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.444 min Scan# 3124
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Tgt Ion:240 Resp: 196040
Ion Ratio Lower Upper
240 100
120 7.0 6.2 9.4
236 26.2 20.5 30.7





#78

Pyrene

Concen: 11.589 ng

RT: 19.628 min Scan# 2816

Delta R.T. -0.011 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

SOIL-PILE-2

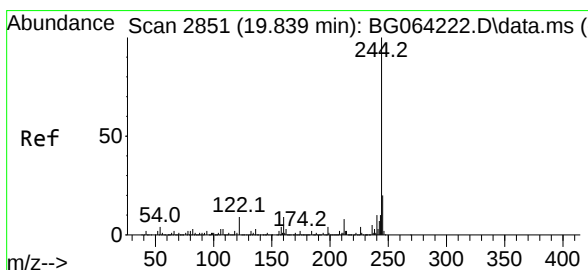
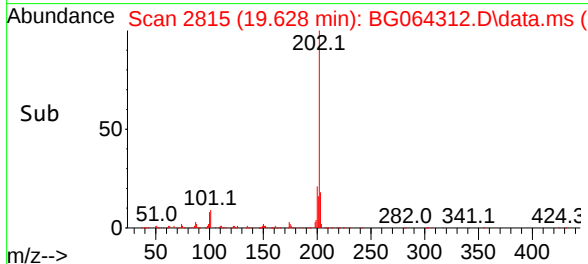
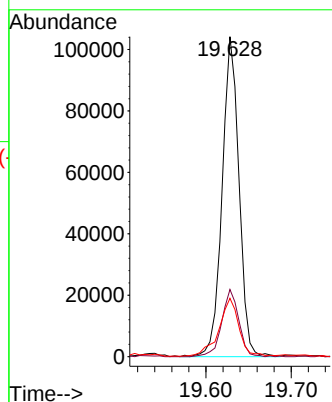
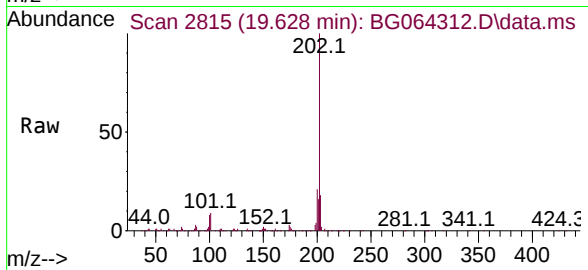
Tgt Ion:202 Resp: 143135
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.9 25.3
 203 18.2 13.8 20.8

Manual Integrations

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Reviewed By :Rahul Chavli 09/09/2025

Supervised By :Jagrut Upadhyay 09/09/2025



#79

Terphenyl-d14

Concen: 11.110 ng

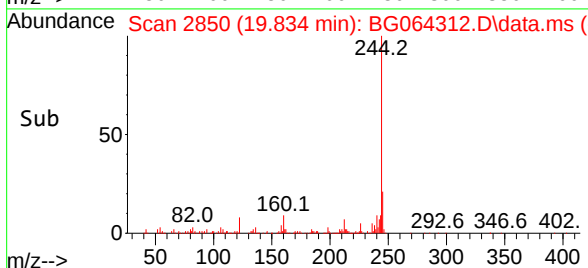
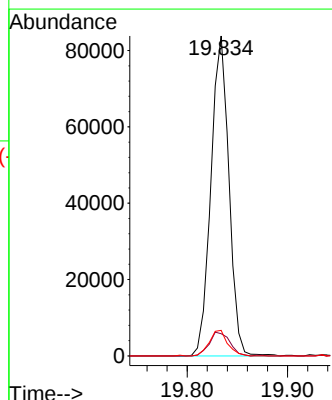
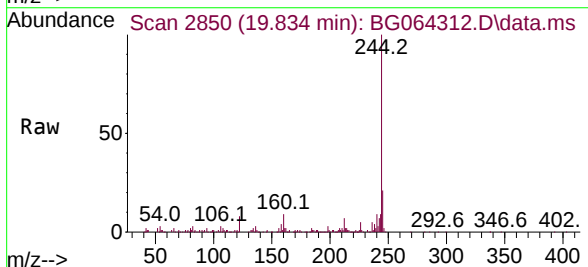
RT: 19.834 min Scan# 2850

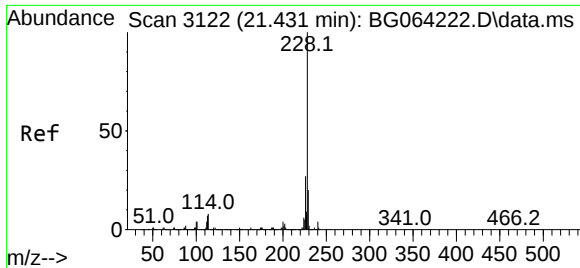
Delta R.T. -0.011 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Tgt Ion:244 Resp: 104396
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.6 10.0
 122 8.0 7.0 10.6





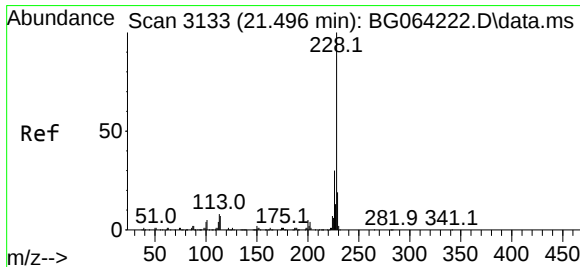
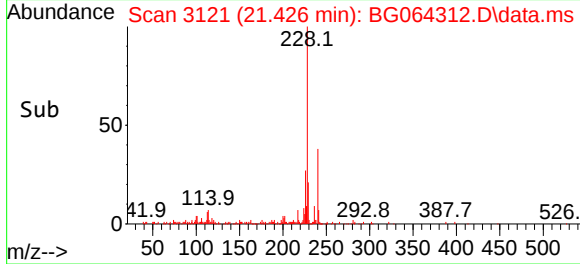
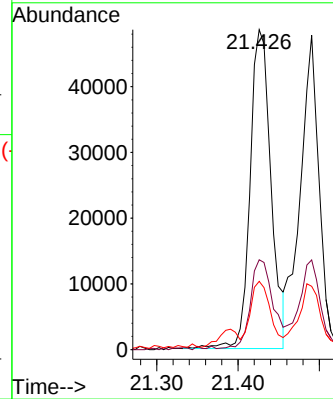
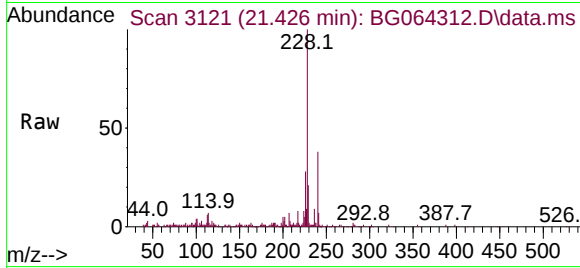
#81
Benzo(a)anthracene
Concen: 6.916 ng
RT: 21.426 min Scan# 3121
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Instrument :
BNA_G
ClientSampleId :
SOIL-PILE-2

Tgt Ion:228 Resp: 86735
Ion Ratio Lower Upper
228 100
226 28.1 21.7 32.5
229 21.3 15.9 23.9

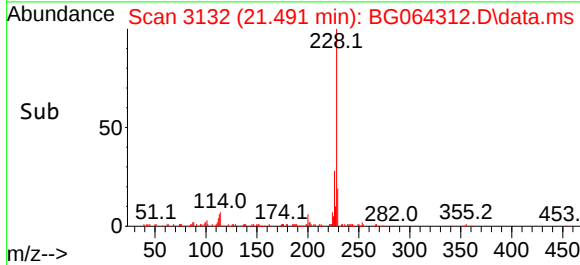
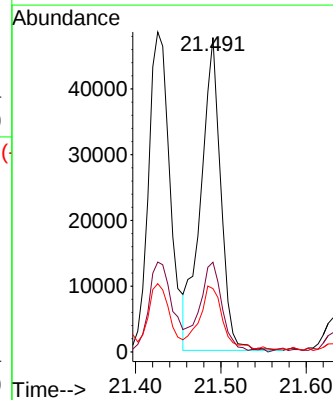
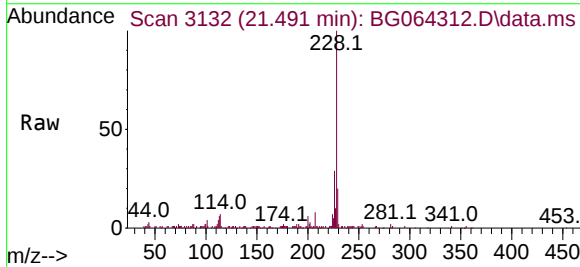
Manual Integrations
APPROVED

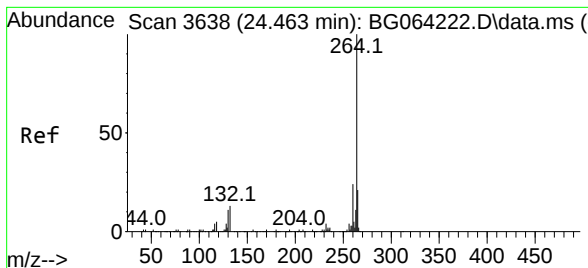
Reviewed By :Rahul Chavli 09/09/2025
Supervised By :Jagrut Upadhyay 09/09/2025



#83
Chrysene
Concen: 6.456 ng
RT: 21.491 min Scan# 3132
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

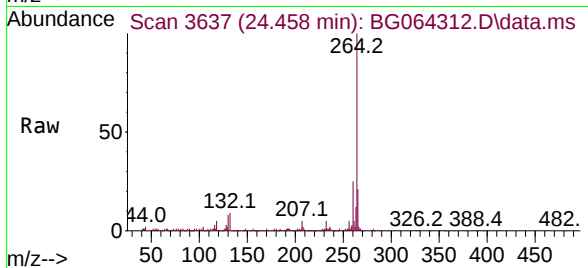
Tgt Ion:228 Resp: 77728
Ion Ratio Lower Upper
228 100
226 28.5 24.2 36.2
229 20.1 15.4 23.2





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.458 min Scan# 30
Delta R.T. -0.005 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

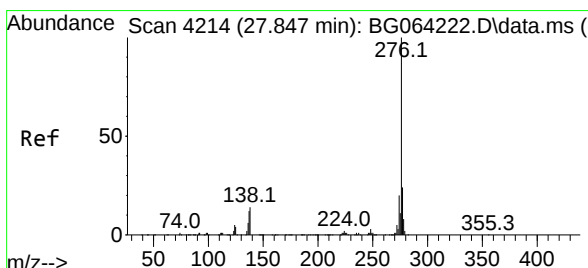
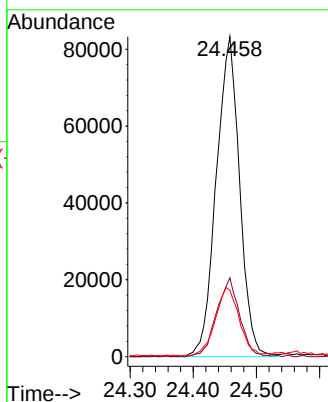
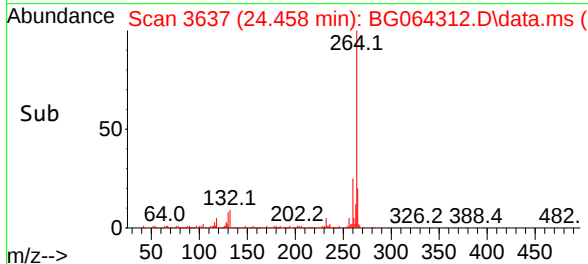
Instrument :
BNA_G
ClientSampleId :
SOIL-PILE-2



Tgt Ion:264 Resp: 213880
Ion Ratio Lower Upper
264 100
260 24.6 18.9 28.3
265 20.7 16.7 25.1

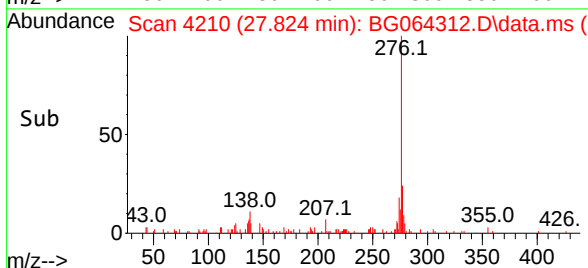
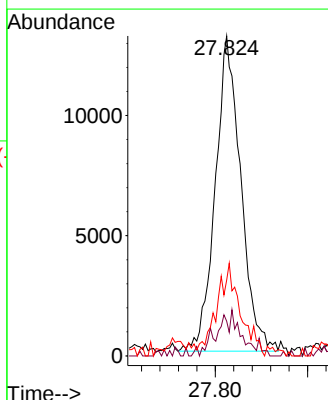
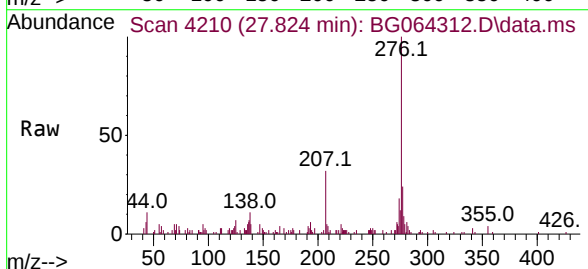
Manual Integrations
APPROVED

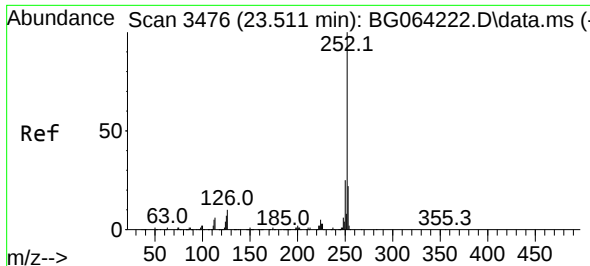
Reviewed By :Rahul Chavli 09/09/2025
Supervised By :Jagrut Upadhyay 09/09/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 3.453 ng
RT: 27.824 min Scan# 4210
Delta R.T. -0.047 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Tgt Ion:276 Resp: 50442
Ion Ratio Lower Upper
276 100
138 2.3 7.4 11.0#
277 27.5 20.5 30.7





#88
Benzo(b)fluoranthene
Concen: 8.476 ng
RT: 23.506 min Scan# 3476
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

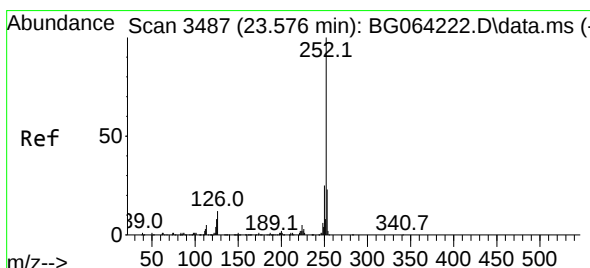
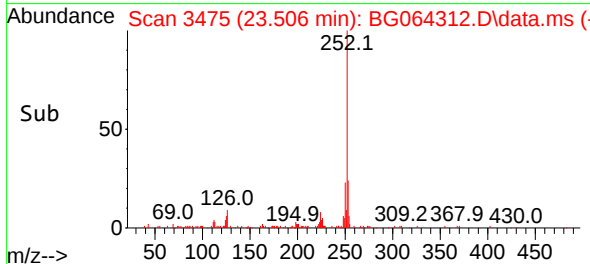
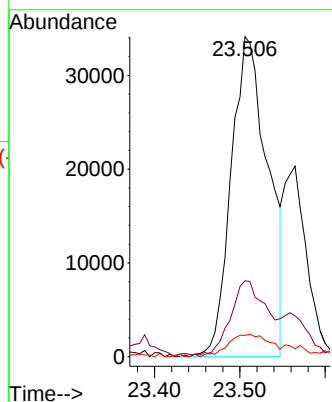
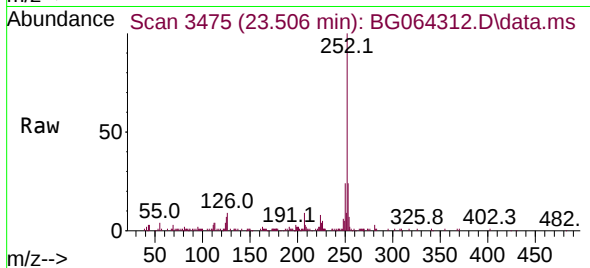
SOIL-PILE-2

Tgt Ion:252 Resp: 102309
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 6.7 5.9 8.9

Manual Integrations

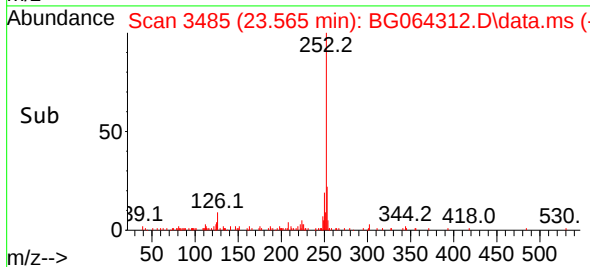
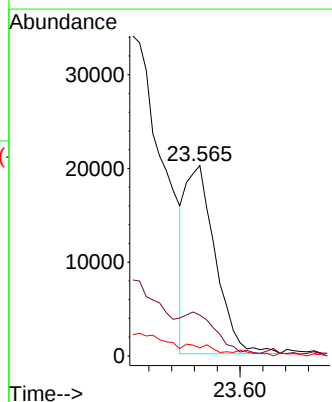
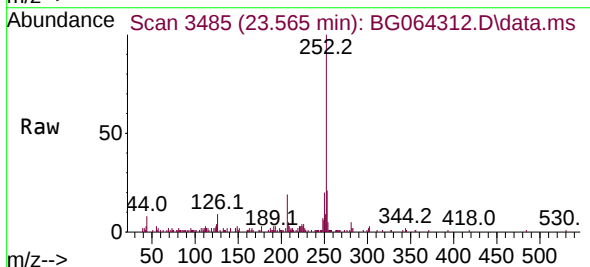
APPROVED

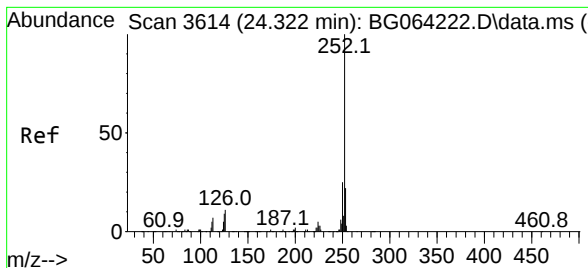
Reviewed By :Rahul Chavli 09/09/2025
Supervised By :Jagrut Upadhyay 09/09/2025



#89
Benzo(k)fluoranthene
Concen: 2.983 ng m
RT: 23.565 min Scan# 3485
Delta R.T. -0.023 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Tgt Ion:252 Resp: 36689
Ion Ratio Lower Upper
252 100
253 21.4 18.2 27.4
125 4.2 7.0 10.4#





#90

Benzo(a)pyrene

Concen: 6.495 ng m

RT: 24.311 min Scan# 3612

Delta R.T. -0.017 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

SOIL-PILE-2

Tgt Ion:252 Resp: 72935

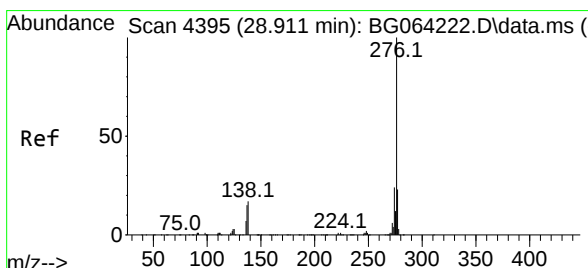
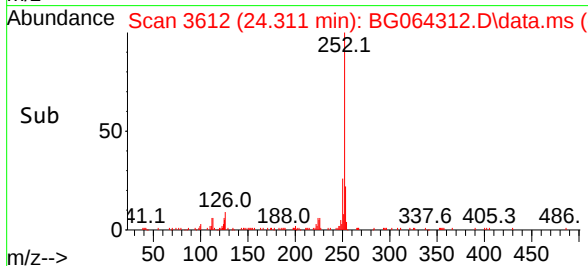
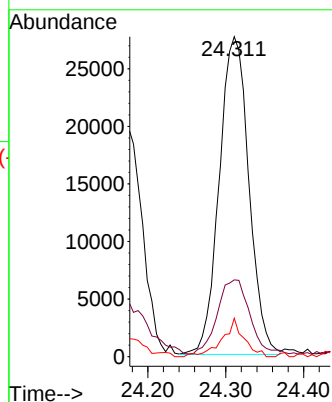
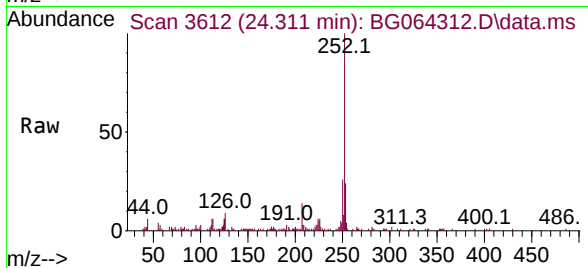
Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.4	26.2
125	6.1	7.0	10.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/09/2025

Supervised By :Jagrut Upadhyay 09/09/2025



#92

Benzo(g,h,i)perylene

Concen: 4.210 ng

RT: 28.888 min Scan# 4391

Delta R.T. -0.047 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Tgt Ion:276 Resp: 48042

Ion	Ratio	Lower	Upper
276	100		
277	19.4	18.2	27.4
138	10.1	13.3	19.9

