

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082525\
 Data File : BP025574.D
 Acq On : 25 Aug 2025 21:14
 Operator : CG/JU
 Sample : Q2941-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SOIL-COMP(1-2)

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/26/2025
 Supervised By :Jagrut Upadhyay 08/26/2025

Quant Time: Aug 26 01:16:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 14 18:14:31 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.778	152	219577	20.000	ng	-0.02
21) Naphthalene-d8	10.549	136	879311	20.000	ng	-0.01
39) Acenaphthene-d10	14.390	164	567934	20.000	ng	-0.02
64) Phenanthrene-d10	17.184	188	1148294	20.000	ng	-0.02
76) Chrysene-d12	21.619	240	1177776	20.000	ng	-0.03
86) Perylene-d12	24.989	264	1340917	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	991874	75.017	ng	0.00
7) Phenol-d6	6.966	99	1284667	75.784	ng	0.00
23) Nitrobenzene-d5	8.913	82	804041	46.255	ng	-0.02
42) 2,4,6-Tribromophenol	15.901	330	586205	76.684	ng	-0.01
45) 2-Fluorobiphenyl	13.007	172	1762983	42.425	ng	-0.01
79) Terphenyl-d14	19.895	244	2591554	40.258	ng	-0.02
Target Compounds						Qvalue
71) Phenanthrene	17.225	178	552979	8.766	ng	99
75) Fluoranthene	19.307	202	1578765	20.982	ng	99
78) Pyrene	19.683	202	1361444	17.785	ng	99
81) Benzo(a)anthracene	21.601	228	756080m	9.734	ng	
83) Chrysene	21.672	228	792609m	10.896	ng	
87) Indeno(1,2,3-cd)pyrene	28.795	276	590274	6.003	ng	# 91
88) Benzo(b)fluoranthene	23.919	252	1139921	14.417	ng	97
89) Benzo(k)fluoranthene	23.977	252	351275m	4.440	ng	
90) Benzo(a)pyrene	24.824	252	773065	10.044	ng	98
92) Benzo(g,h,i)perylene	29.983	276	558257	7.067	ng	99

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

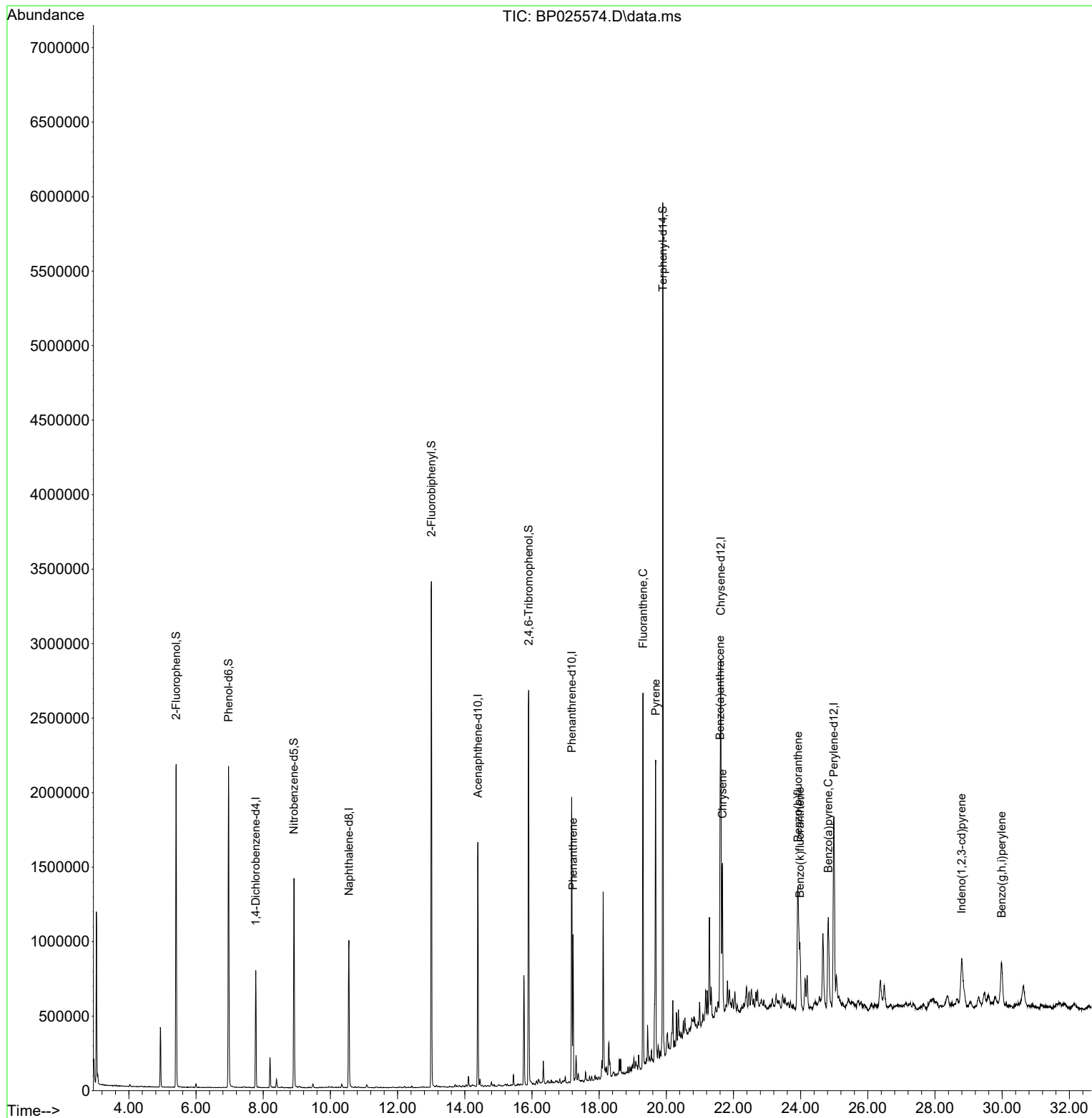
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082525\
Data File : BP025574.D
Acq On : 25 Aug 2025 21:14
Operator : CG/JU
Sample : Q2941-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

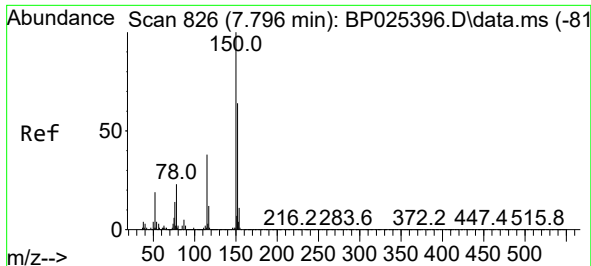
Instrument :
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ClientSampleId :
SOIL-COMP(1-2)

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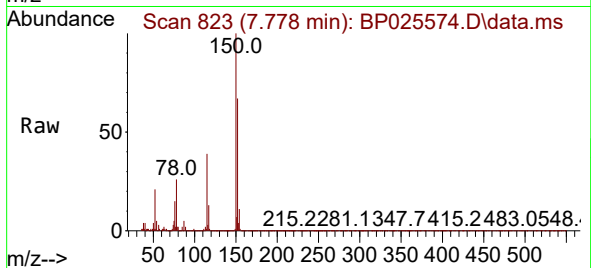
Quant Time: Aug 26 01:16:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 14 18:14:31 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.778 min Scan# 81
Delta R.T. -0.018 min
Lab File: BP025574.D
Acq: 25 Aug 2025 21:14

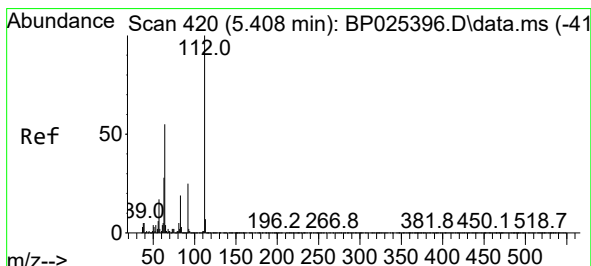
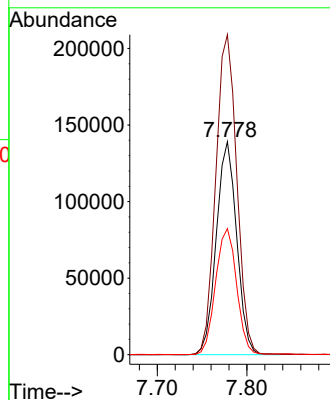
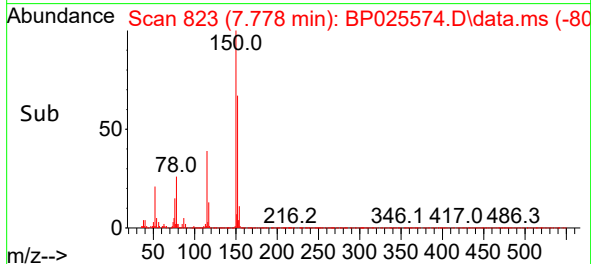
Instrument :
BNA_P
ClientSampleId :
SOIL-COMP(1-2)



Tgt Ion:152 Resp: 21957
Ion Ratio Lower Upper
152 100
150 150.2 125.9 188.9
115 59.2 48.5 72.7

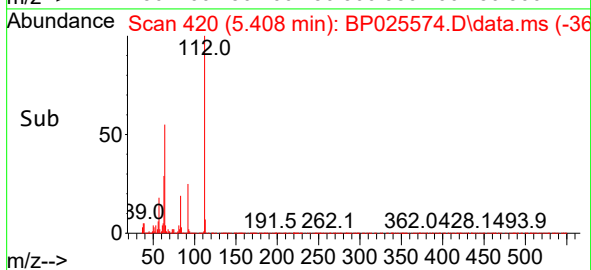
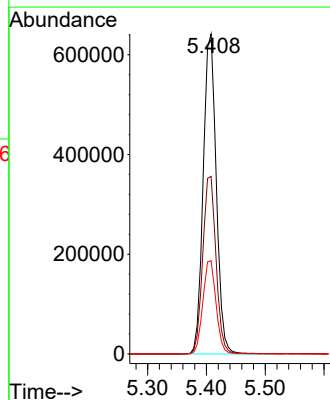
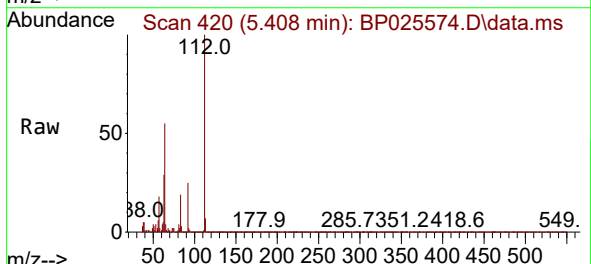
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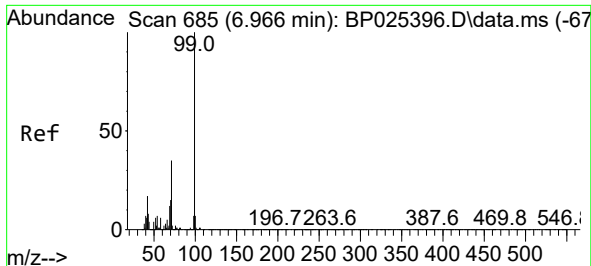
Reviewed By :Rahul Chavli 08/26/2025
Supervised By :Jagrut Upadhyay 08/26/2025



#5
2-Fluorophenol
Concen: 75.017 ng
RT: 5.408 min Scan# 420
Delta R.T. 0.000 min
Lab File: BP025574.D
Acq: 25 Aug 2025 21:14

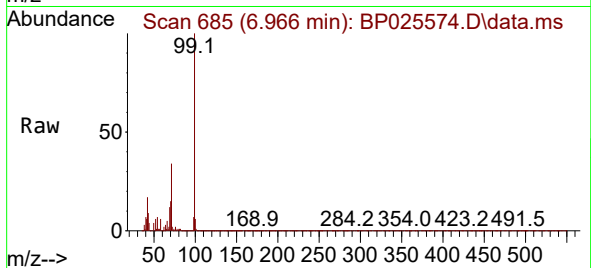
Tgt Ion:112 Resp: 991874
Ion Ratio Lower Upper
112 100
64 55.5 43.8 65.8
63 29.2 22.7 34.1





#7
Phenol-d6
Concen: 75.784 ng
RT: 6.966 min Scan# 61
Delta R.T. 0.000 min
Lab File: BP025574.D
Acq: 25 Aug 2025 21:14

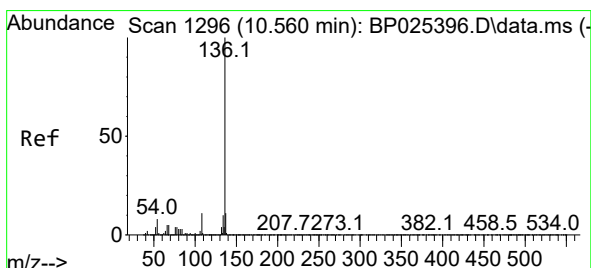
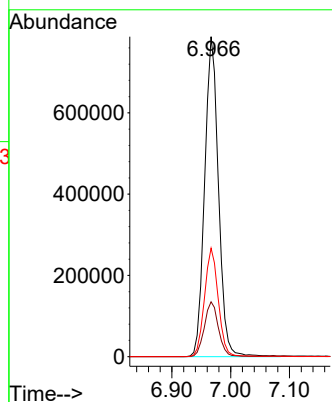
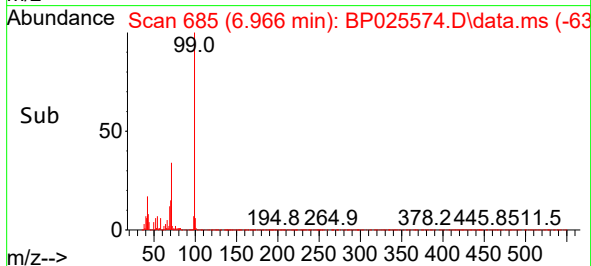
Instrument :
BNA_P
ClientSampleId :
SOIL-COMP(1-2)



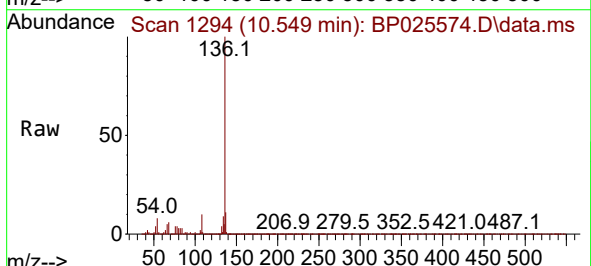
Tgt Ion: 99 Resp: 128466
Ion Ratio Lower Upper
99 100
42 17.1 13.7 20.5
71 33.9 28.2 42.4

Manual Integrations
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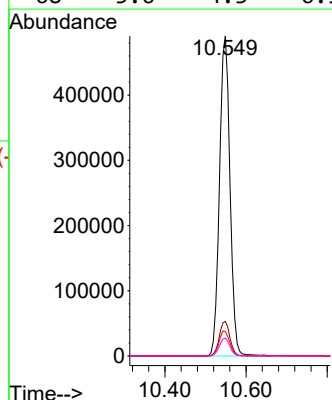
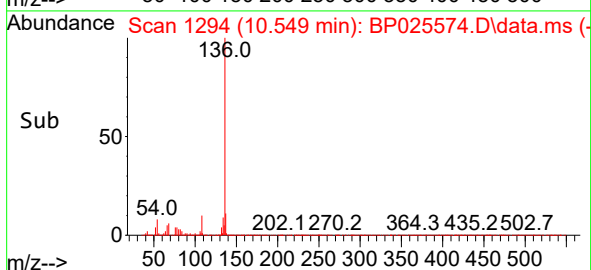
Reviewed By :Rahul Chavli 08/26/2025
Supervised By :Jagrut Upadhyay 08/26/2025

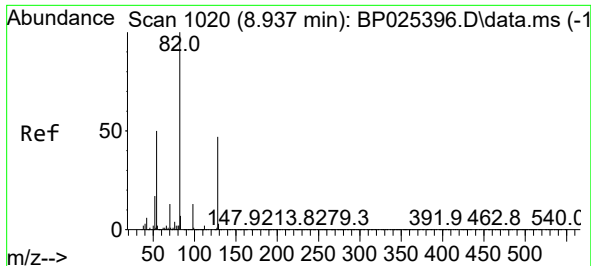


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.549 min Scan# 1294
Delta R.T. -0.012 min
Lab File: BP025574.D
Acq: 25 Aug 2025 21:14



Tgt Ion:136 Resp: 879311
Ion Ratio Lower Upper
136 100
137 10.8 9.2 13.8
54 7.7 6.0 9.0
68 5.6 4.3 6.5





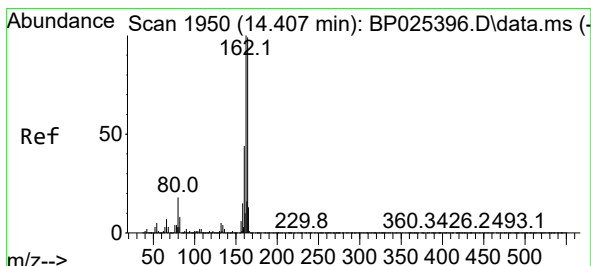
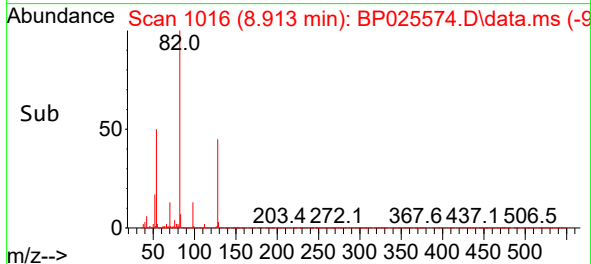
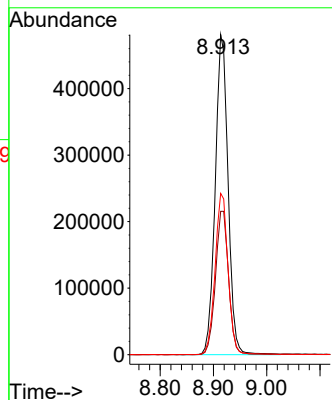
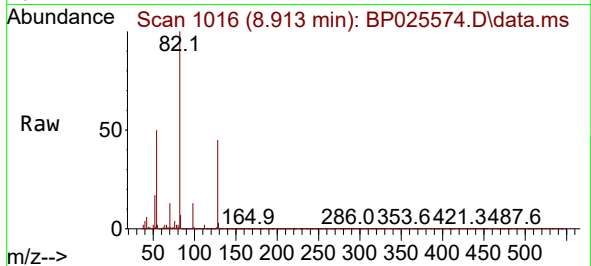
#23
Nitrobenzene-d5
Concen: 46.255 ng
RT: 8.913 min Scan# 1016
Delta R.T. -0.023 min
Lab File: BP025574.D
Acq: 25 Aug 2025 21:14

Instrument :
BNA_P
ClientSampleId :
SOIL-COMP(1-2)

Tgt Ion: 82 Resp: 80404
Ion Ratio Lower Upper
82 100
128 44.8 37.7 56.5
54 50.4 39.8 59.6

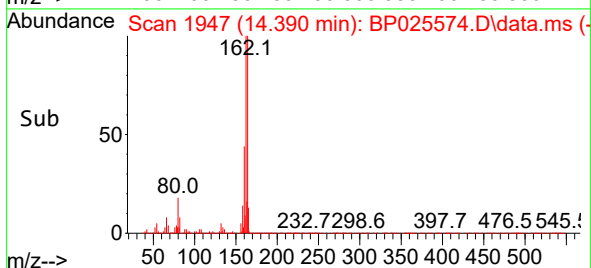
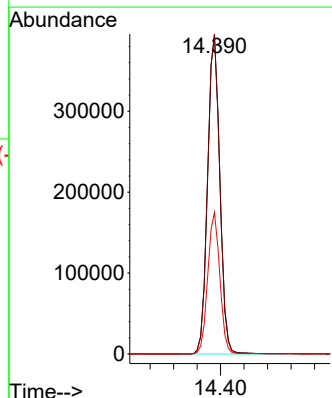
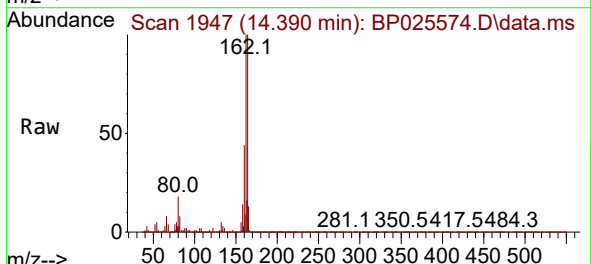
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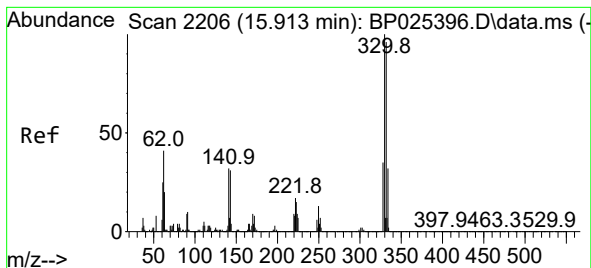
Reviewed By :Rahul Chavli 08/26/2025
Supervised By :Jagrut Upadhyay 08/26/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.390 min Scan# 1947
Delta R.T. -0.017 min
Lab File: BP025574.D
Acq: 25 Aug 2025 21:14

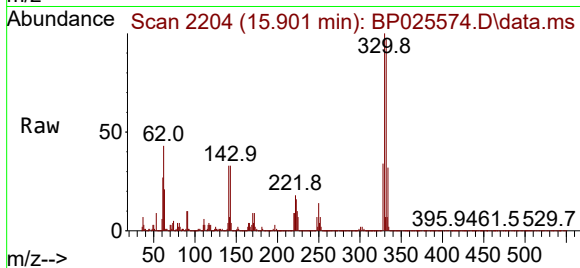
Tgt Ion:164 Resp: 567934
Ion Ratio Lower Upper
164 100
162 100.4 81.0 121.6
160 44.4 35.4 53.2





#42
2,4,6-Tribromophenol
Concen: 76.684 ng
RT: 15.901 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP025574.D
Acq: 25 Aug 2025 21:14

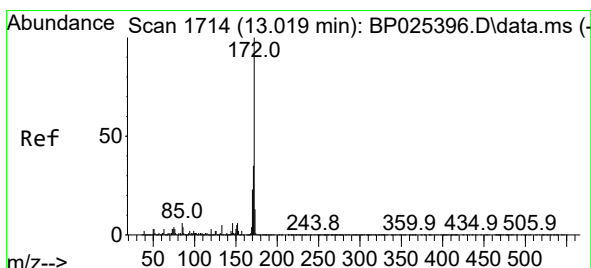
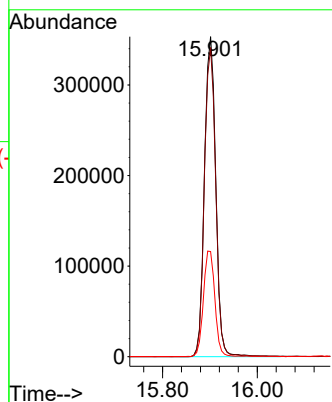
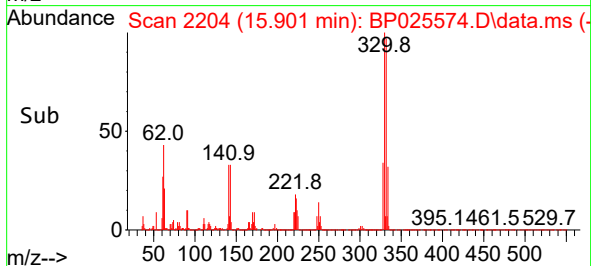
Instrument :
BNA_P
ClientSampleId :
SOIL-COMP(1-2)



Tgt Ion: 330 Resp: 58620
Ion Ratio Lower Upper
330 100
332 96.6 77.3 115.9
141 33.3 26.6 39.8

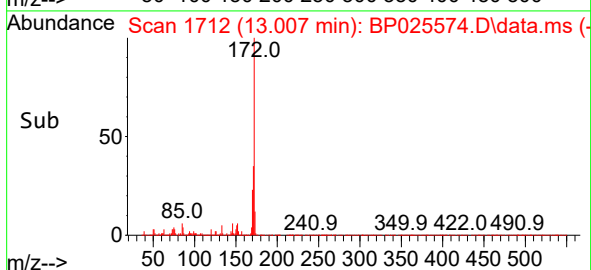
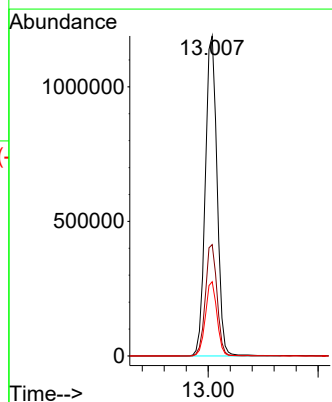
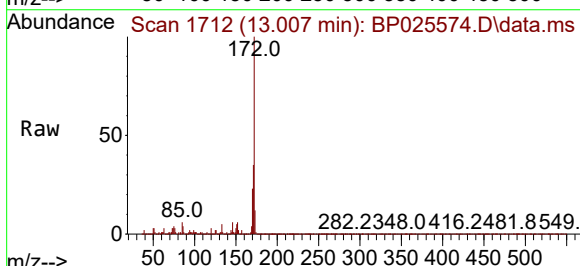
Manual Integrations
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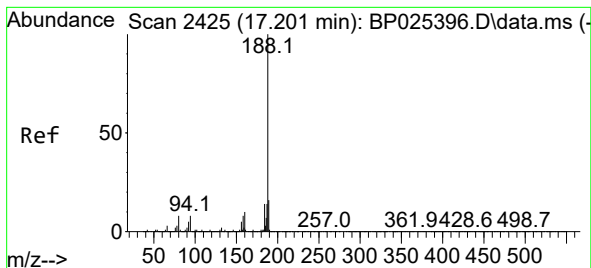
Reviewed By :Rahul Chavli 08/26/2025
Supervised By :Jagrut Upadhyay 08/26/2025



#45
2-Fluorobiphenyl
Concen: 42.425 ng
RT: 13.007 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BP025574.D
Acq: 25 Aug 2025 21:14

Tgt Ion: 172 Resp: 1762983
Ion Ratio Lower Upper
172 100
171 34.8 28.1 42.1
170 23.2 18.6 28.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.184 min Scan# 2422

Delta R.T. -0.017 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

Instrument :

BNA_P

ClientSampleId :

SOIL-COMP(1-2)

Tgt Ion:188 Resp: 1148294

Ion Ratio Lower Upper

188 100

94 9.4 6.6 10.0

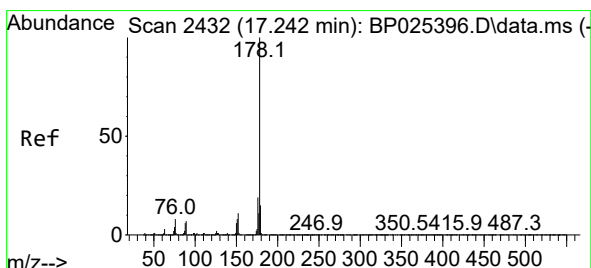
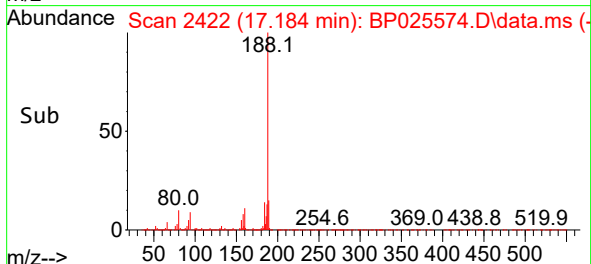
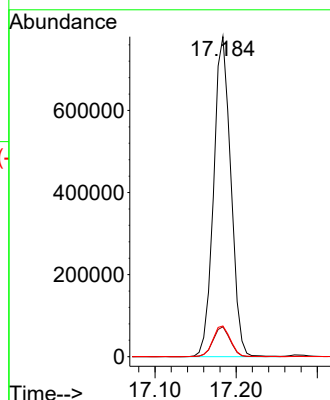
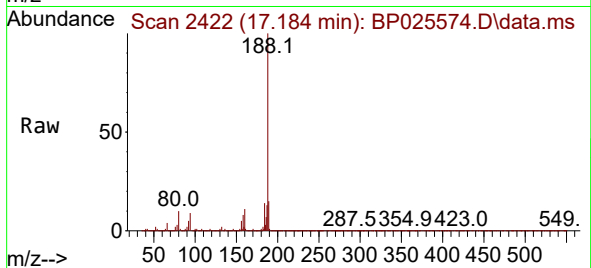
80 9.6 6.7 10.1

Manual Integrations

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Reviewed By :Rahul Chavli 08/26/2025

Supervised By :Jagrut Upadhyay 08/26/2025



#71

Phenanthrene

Concen: 8.766 ng

RT: 17.225 min Scan# 2429

Delta R.T. -0.017 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

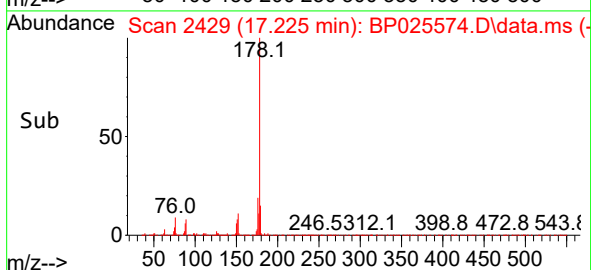
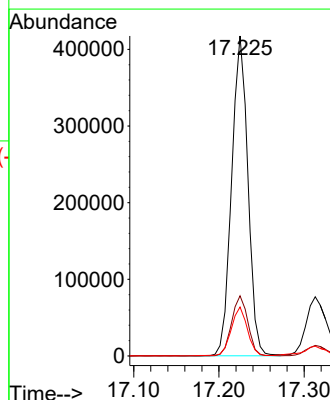
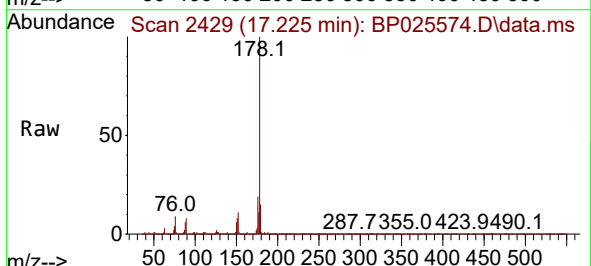
Tgt Ion:178 Resp: 552979

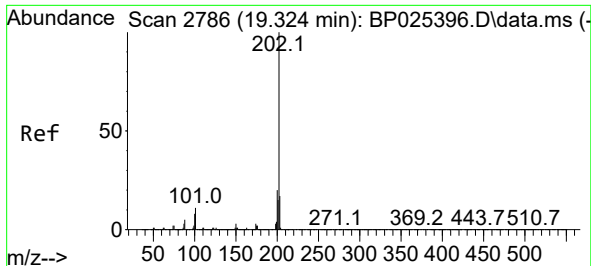
Ion Ratio Lower Upper

178 100

176 18.8 15.5 23.3

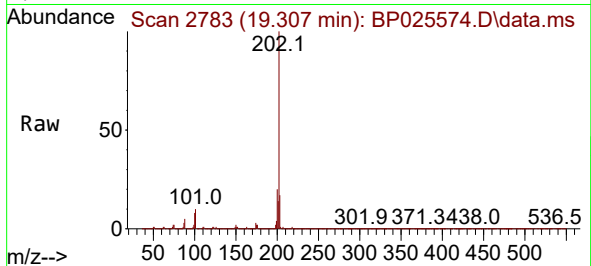
179 15.3 12.2 18.4





#75
Fluoranthene
Concen: 20.982 ng
RT: 19.307 min Scan# 21
Delta R.T. -0.017 min
Lab File: BP025574.D
Acq: 25 Aug 2025 21:14

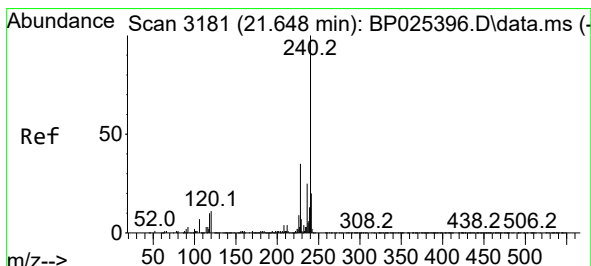
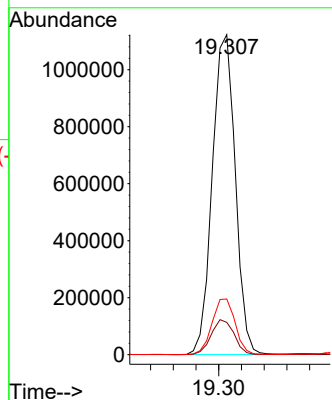
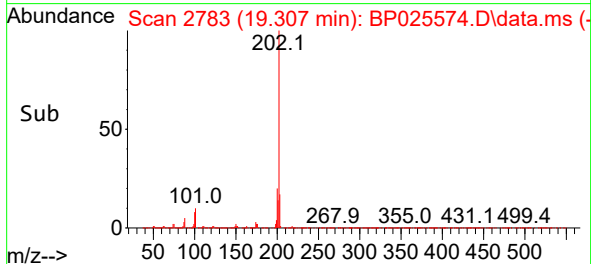
Instrument :
BNA_P
ClientSampleId :
SOIL-COMP(1-2)



Tgt Ion:202 Resp: 157876
Ion Ratio Lower Upper
202 100
101 10.1 0.0 31.1
203 17.4 0.0 37.3

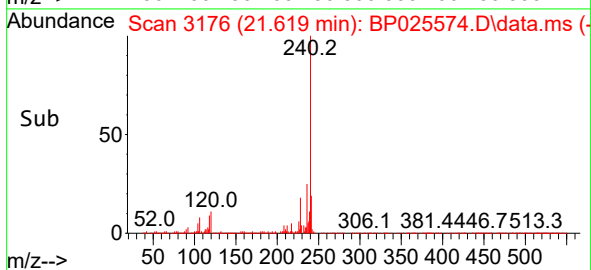
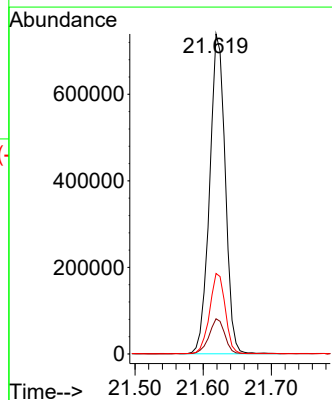
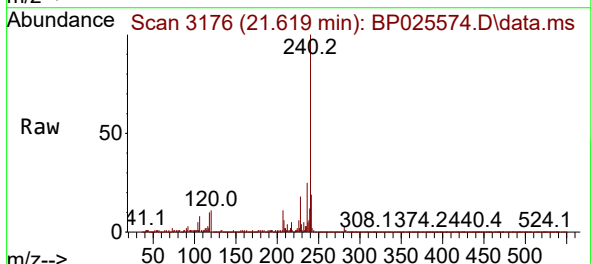
Manual Integrations
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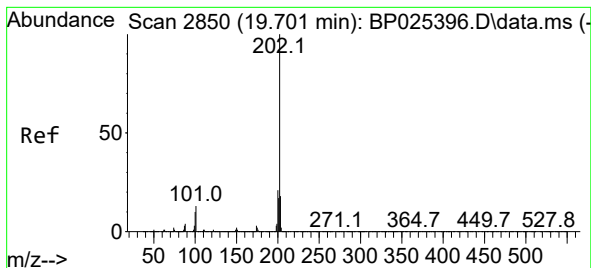
Reviewed By :Rahul Chavli 08/26/2025
Supervised By :Jagrut Upadhyay 08/26/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.619 min Scan# 3176
Delta R.T. -0.029 min
Lab File: BP025574.D
Acq: 25 Aug 2025 21:14

Tgt Ion:240 Resp: 1177776
Ion Ratio Lower Upper
240 100
120 11.0 8.9 13.3
236 25.1 19.8 29.8





#78

Pyrene

Concen: 17.785 ng

RT: 19.683 min Scan# 2847

Delta R.T. -0.017 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

Instrument :

BNA_P

ClientSampleId :

SOIL-COMP(1-2)

Tgt Ion:202 Resp: 136144

Ion Ratio Lower Upper

202 100

200 20.6 16.9 25.3

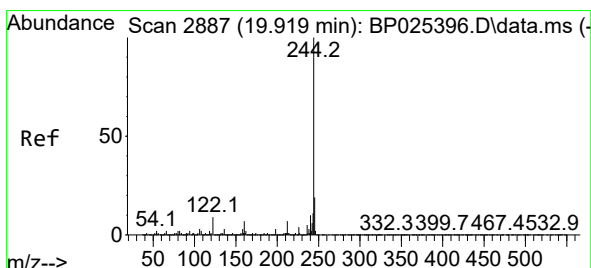
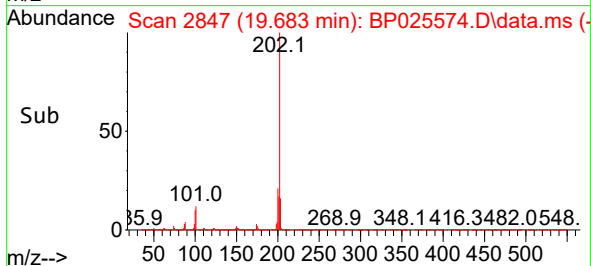
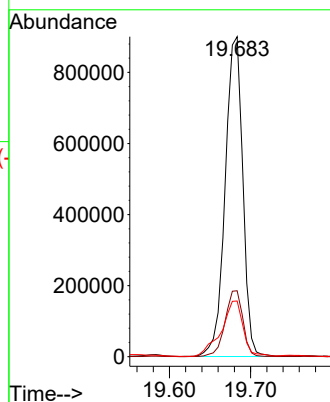
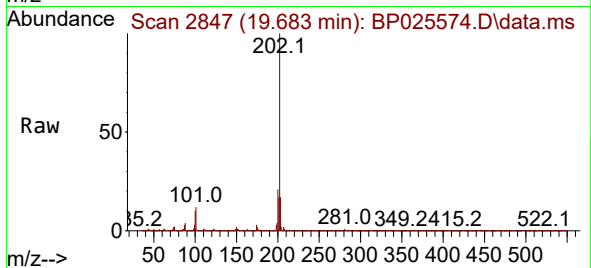
203 17.4 14.2 21.2

Manual Integrations

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Reviewed By :Rahul Chavli 08/26/2025

Supervised By :Jagrut Upadhyay 08/26/2025



#79

Terphenyl-d14

Concen: 40.258 ng

RT: 19.895 min Scan# 2883

Delta R.T. -0.023 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

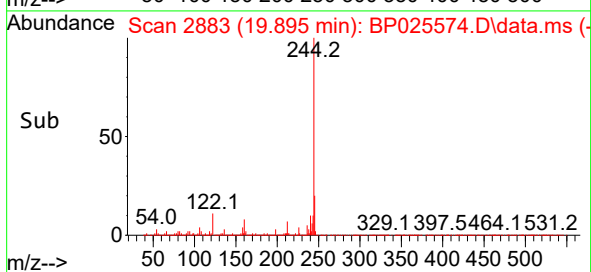
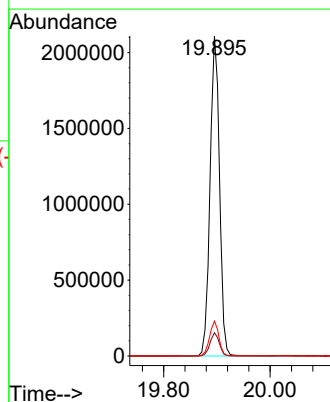
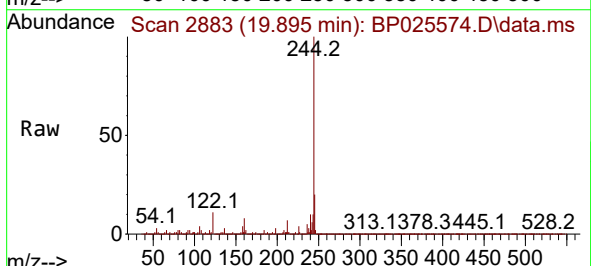
Tgt Ion:244 Resp: 2591554

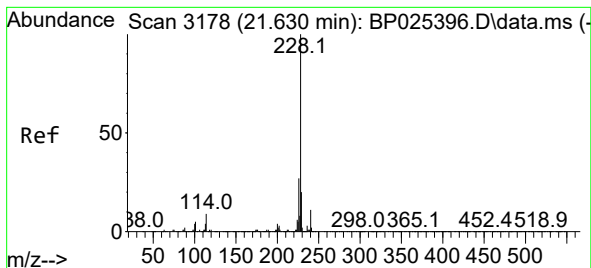
Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.6

122 10.9 7.4 11.2





#81

Benzo(a)anthracene

Concen: 9.734 ng m

RT: 21.601 min Scan# 3173

Delta R.T. -0.029 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

Instrument :

BNA_P

ClientSampleId :

SOIL-COMP(1-2)

Tgt Ion:228 Resp: 756080

Ion Ratio Lower Upper

228 100

226 28.8 21.7 32.5

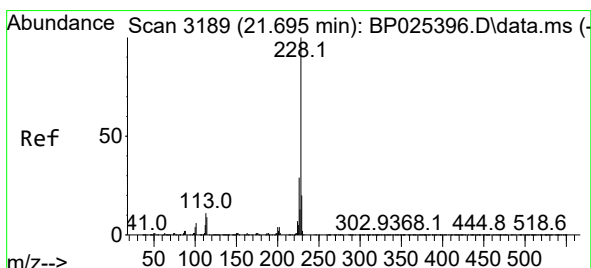
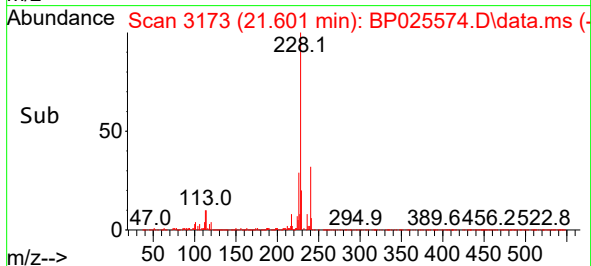
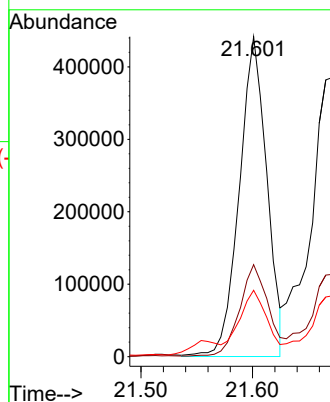
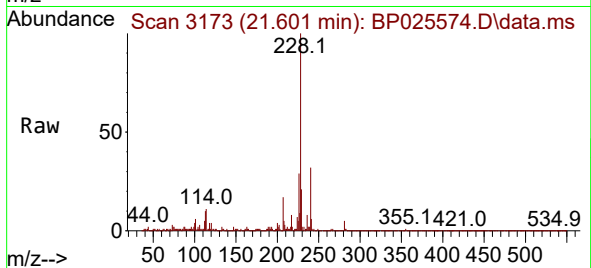
229 20.8 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/26/2025

Supervised By :Jagrut Upadhyay 08/26/2025



#83

Chrysene

Concen: 10.896 ng m

RT: 21.672 min Scan# 3185

Delta R.T. -0.023 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

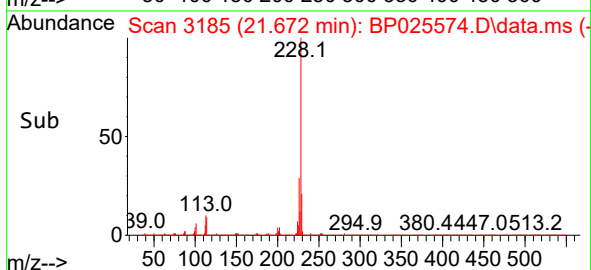
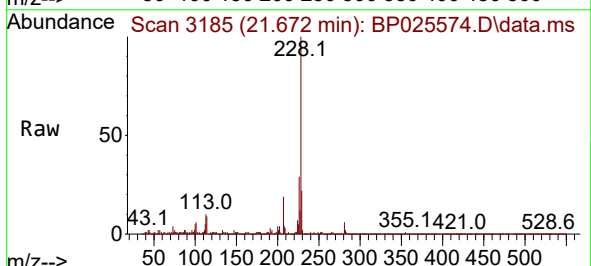
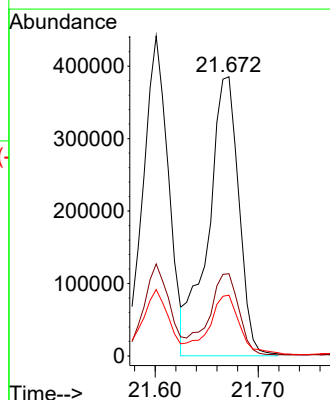
Tgt Ion:228 Resp: 792609

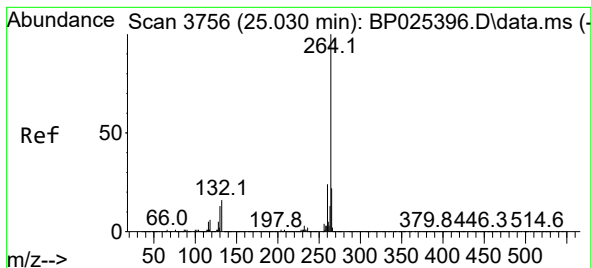
Ion Ratio Lower Upper

228 100

226 29.5 23.2 34.8

229 21.8 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.989 min Scan# 31

Delta R.T. -0.041 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

Instrument :

BNA_P

ClientSampleId :

SOIL-COMP(1-2)

Tgt Ion:264 Resp: 134091

Ion Ratio Lower Upper

264 100

260 23.4 19.3 28.9

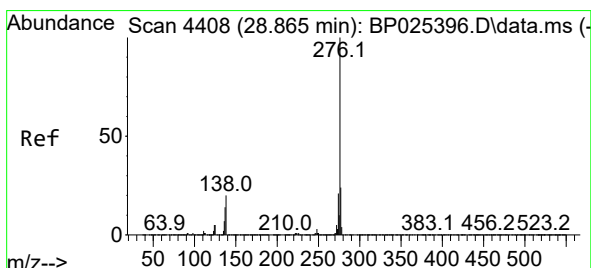
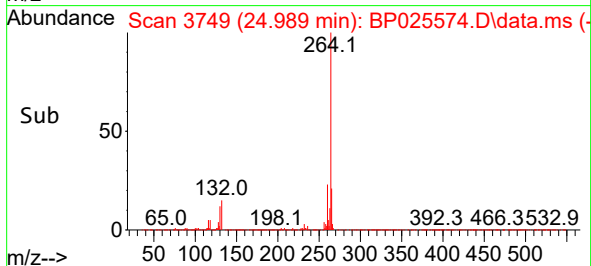
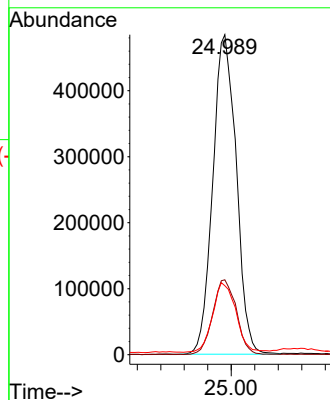
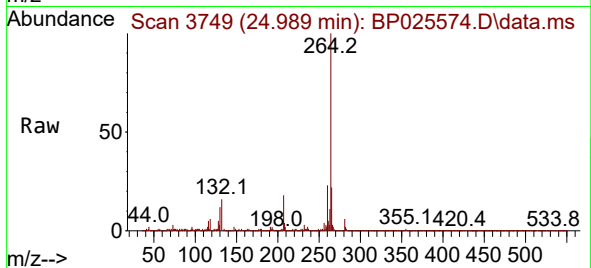
265 21.5 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/26/2025

Supervised By :Jagrut Upadhyay 08/26/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.003 ng

RT: 28.795 min Scan# 4396

Delta R.T. -0.070 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

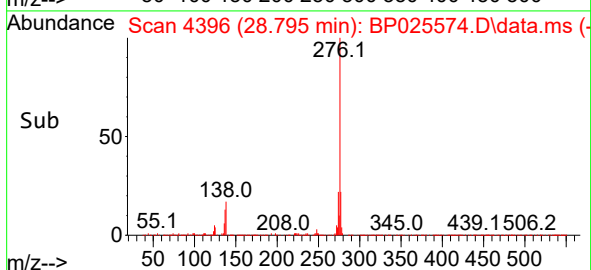
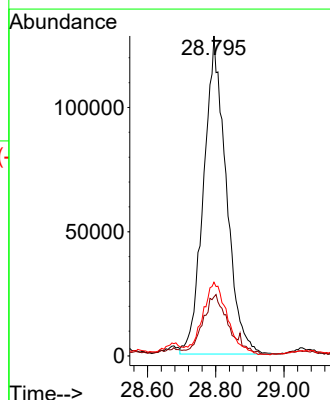
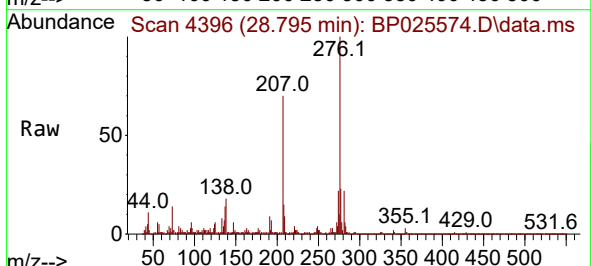
Tgt Ion:276 Resp: 590274

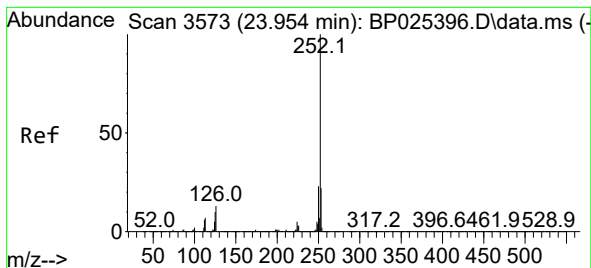
Ion Ratio Lower Upper

276 100

138 21.2 12.9 19.3#

277 24.5 17.0 25.6





#88

Benzo(b)fluoranthene

Concen: 14.417 ng

RT: 23.919 min Scan# 3567

Delta R.T. -0.035 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

Instrument :

BNA_P

ClientSampleId :

SOIL-COMP(1-2)

Tgt Ion:252 Resp: 113992

Ion Ratio Lower Upper

252 100

253 23.1 17.7 26.5

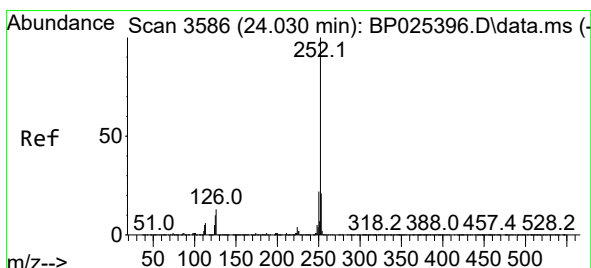
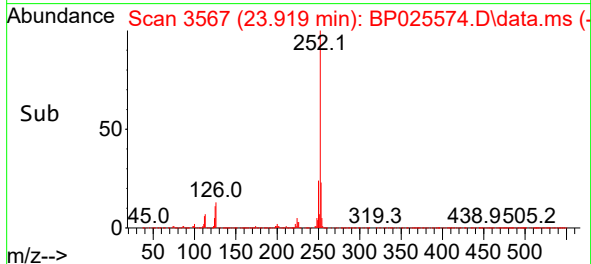
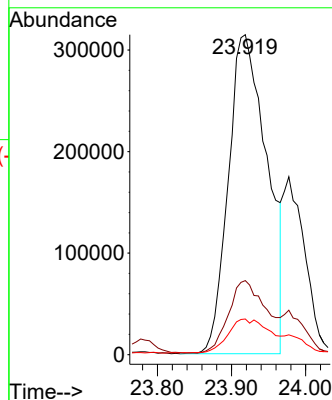
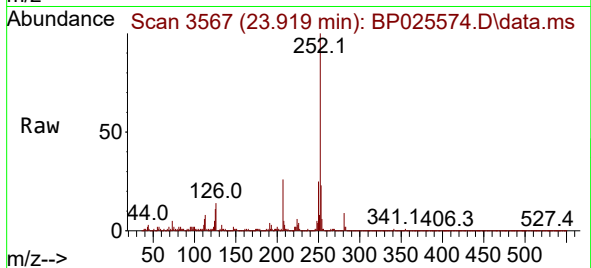
125 11.2 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/26/2025

Supervised By :Jagrut Upadhyay 08/26/2025



#89

Benzo(k)fluoranthene

Concen: 4.440 ng m

RT: 23.977 min Scan# 3577

Delta R.T. -0.053 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

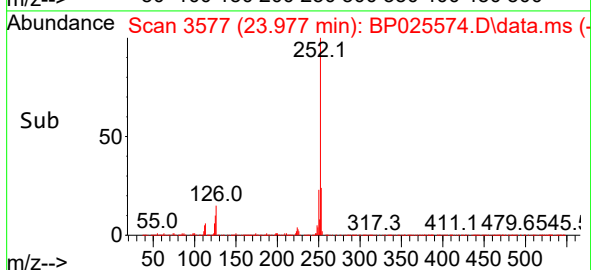
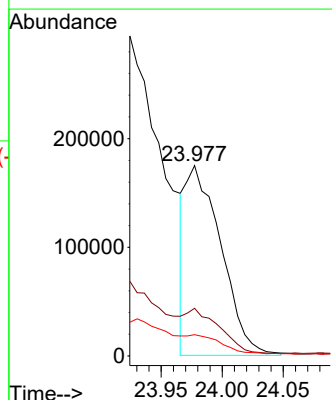
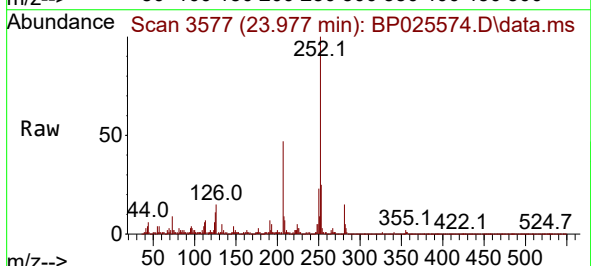
Tgt Ion:252 Resp: 351275

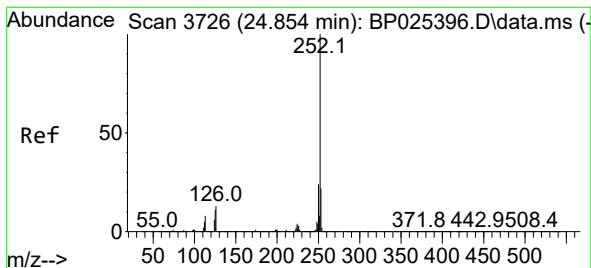
Ion Ratio Lower Upper

252 100

253 25.0 17.1 25.7

125 11.2 7.8 11.6





#90

Benzo(a)pyrene

Concen: 10.044 ng

RT: 24.824 min Scan# 31

Delta R.T. -0.029 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

Instrument :

BNA_P

ClientSampleId :

SOIL-COMP(1-2)

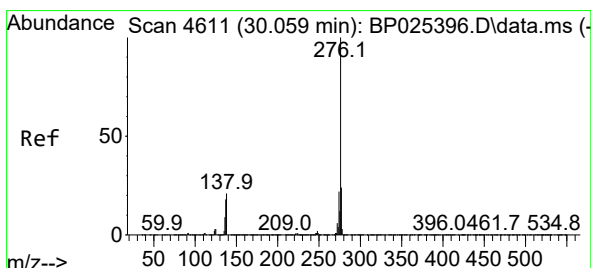
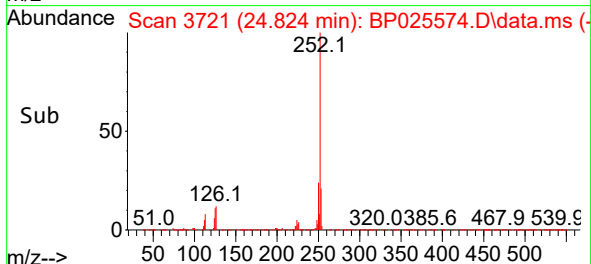
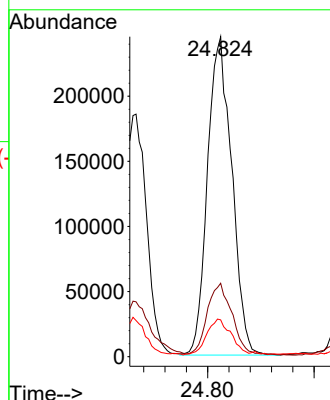
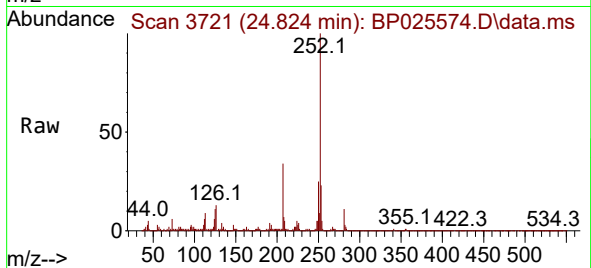
Tgt Ion:252 Resp: 77306
 Ion Ratio Lower Upper
 252 100
 253 22.9 17.5 26.3
 125 11.5 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/26/2025

Supervised By :Jagrut Upadhyay 08/26/2025



#92

Benzo(g,h,i)perylene

Concen: 7.067 ng

RT: 29.983 min Scan# 4598

Delta R.T. -0.076 min

Lab File: BP025574.D

Acq: 25 Aug 2025 21:14

Tgt Ion:276 Resp: 558257
 Ion Ratio Lower Upper
 276 100
 277 24.4 19.4 29.0
 138 22.0 16.7 25.1

