

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082625\
 Data File : BP025584.D
 Acq On : 26 Aug 2025 13:51
 Operator : CG/JU
 Sample : Q2932-03
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ARS20-0002-SOIL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/27/2025
 Supervised By :Jagrut Upadhyay 08/27/2025

Quant Time: Aug 26 14:19:06 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	252339	20.000	ng	-0.02
21) Naphthalene-d8	10.543	136	970841	20.000	ng	#-0.02
39) Acenaphthene-d10	14.401	164	487092	20.000	ng	0.00
64) Phenanthrene-d10	17.260	188	513622	20.000	ng	# 0.06
76) Chrysene-d12	21.666	240	1037204	20.000	ng	# 0.02
86) Perylene-d12	25.018	264	1292008	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	1025694	67.503	ng	0.00
7) Phenol-d6	6.966	99	1293509	66.399	ng	0.00
23) Nitrobenzene-d5	8.919	82	874086	45.544	ng	-0.02
42) 2,4,6-Tribromophenol	15.948	330	494545	75.430	ng	0.04
45) 2-Fluorobiphenyl	13.001	172	1843314	51.720	ng	-0.02
79) Terphenyl-d14	19.960	244	1959713	34.568	ng	0.04
Target Compounds						Qvalue
81) Benzo(a)anthracene	21.642	228	327945	4.794	ng	# 75
83) Chrysene	21.713	228	376619	5.879	ng	# 80
84) Bis(2-ethylhexyl)phtha...	21.560	149	2310526	51.372	ng	# 94
87) Indeno(1,2,3-cd)pyrene	28.842	276	311607	3.289	ng	# 92
88) Benzo(b)fluoranthene	23.960	252	661036	8.677	ng	# 88
89) Benzo(k)fluoranthene	24.018	252	188268m	2.469	ng	
90) Benzo(a)pyrene	24.860	252	275457	3.714	ng	# 82
92) Benzo(g,h,i)perylene	30.018	276	280597	3.687	ng	94

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

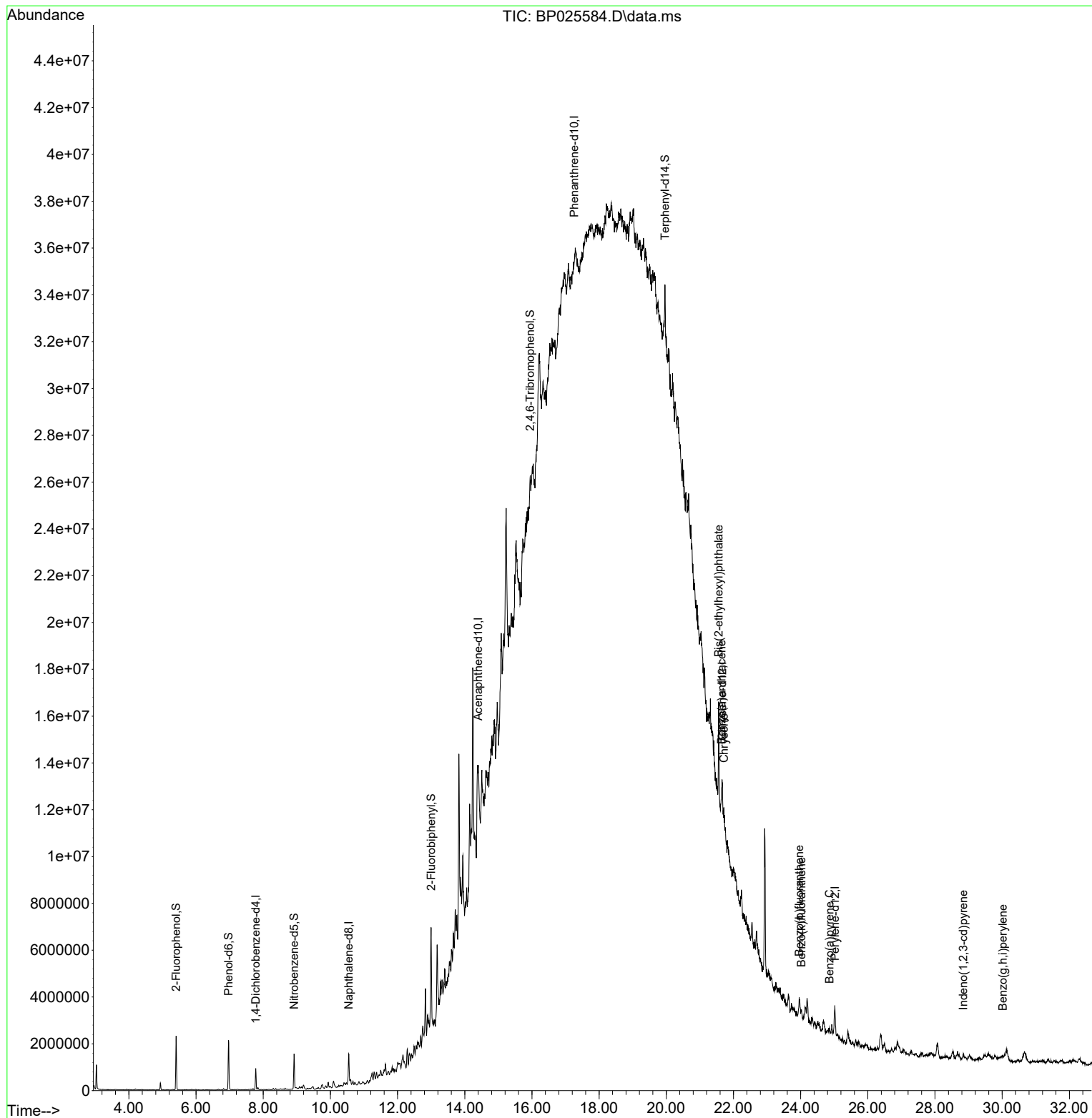
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082625\
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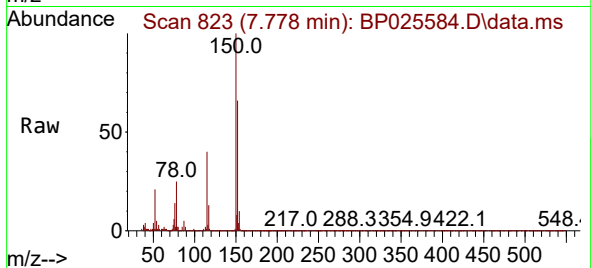
Reviewed By :Rahul Chavli 08/27/2025
Supervised By :Jagrut Upadhyay 08/27/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.778 min Scan# 81
Delta R.T. -0.018 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

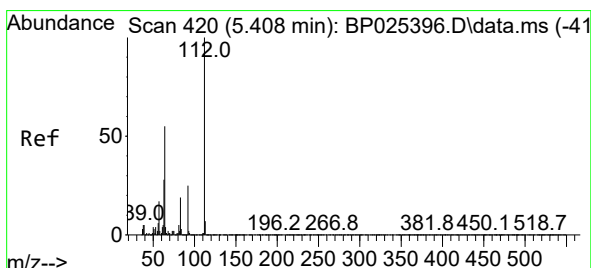
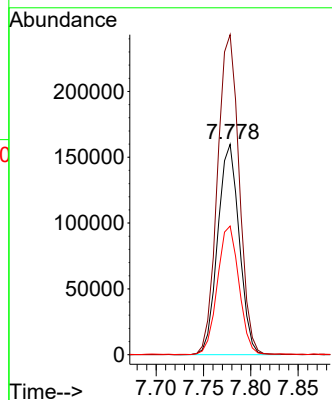
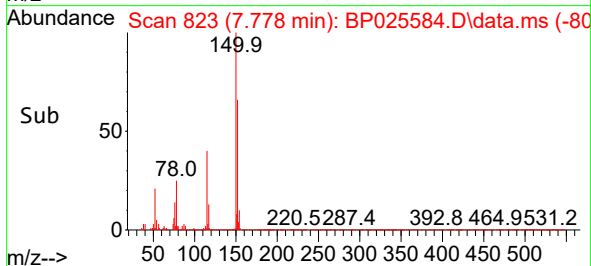
Instrument :
BNA_P
ClientSampleId :
ARS20-0002-SOIL



Tgt Ion:152 Resp: 252339
Ion Ratio Lower Upper
152 100
150 152.1 125.9 188.9
115 61.2 48.5 72.7

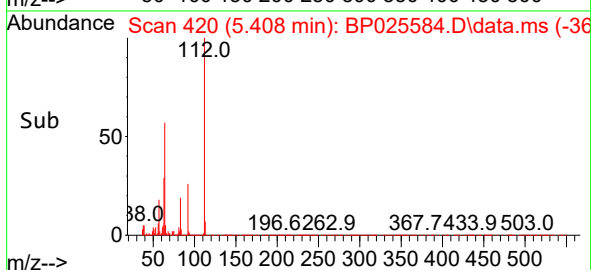
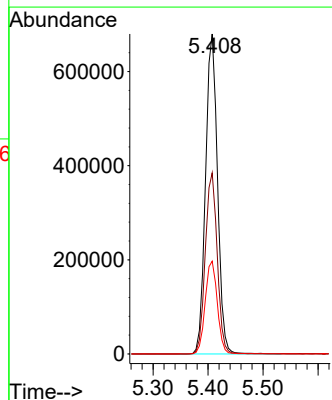
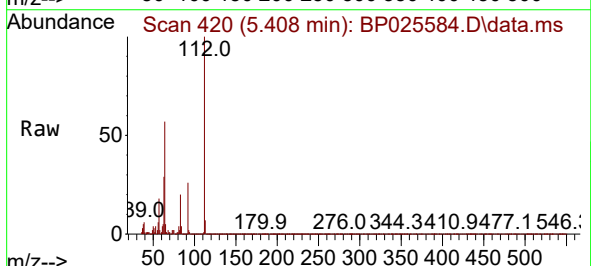
Manual Integrations
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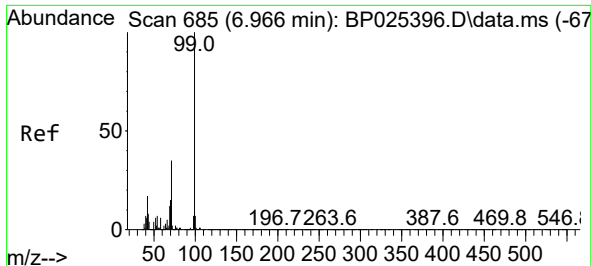
Reviewed By :Rahul Chavli 08/27/2025
Supervised By :Jagrut Upadhyay 08/27/2025



#5
2-Fluorophenol
Concen: 67.503 ng
RT: 5.408 min Scan# 420
Delta R.T. 0.000 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

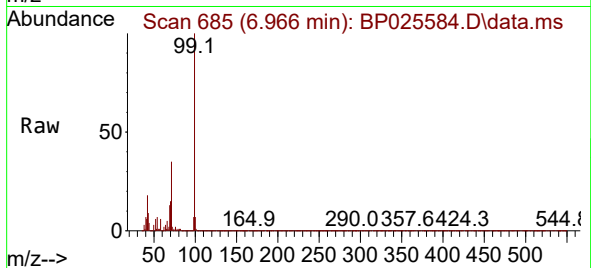
Tgt Ion:112 Resp: 1025694
Ion Ratio Lower Upper
112 100
64 56.6 43.8 65.8
63 29.0 22.7 34.1





#7
Phenol-d6
Concen: 66.399 ng
RT: 6.966 min Scan# 61
Delta R.T. 0.000 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

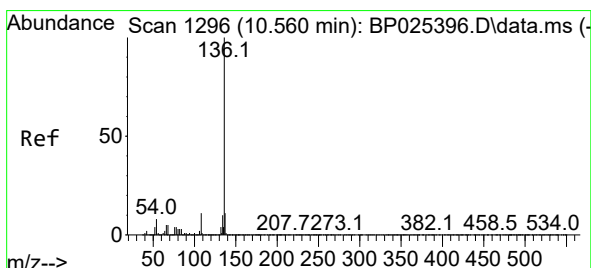
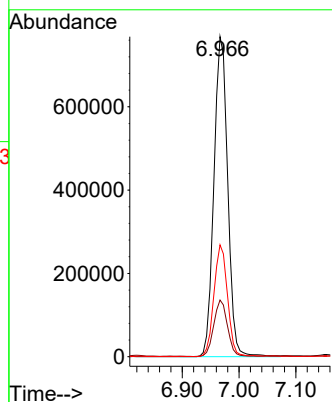
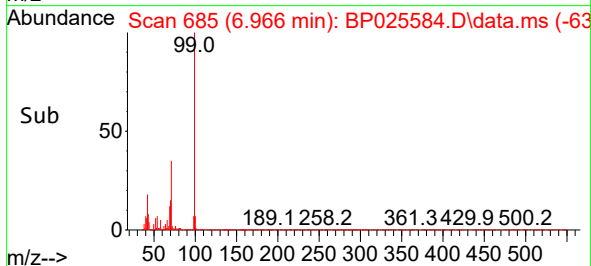
Instrument :
BNA_P
ClientSampleId :
ARS20-0002-SOIL



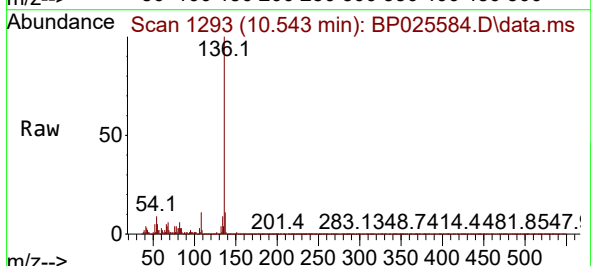
Tgt Ion: 99 Resp: 1293509
Ion Ratio Lower Upper
99 100
42 17.7 13.7 20.5
71 34.9 28.2 42.4

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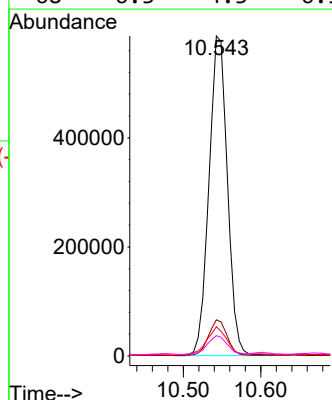
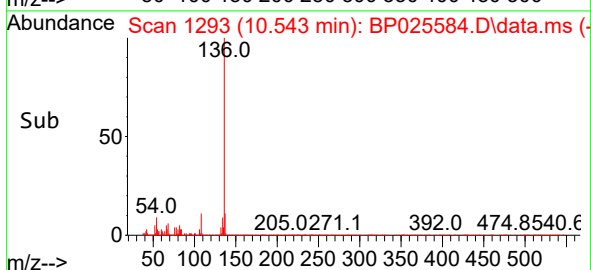
Reviewed By :Rahul Chavli 08/27/2025
Supervised By :Jagrut Upadhyay 08/27/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.543 min Scan# 1293
Delta R.T. -0.018 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51



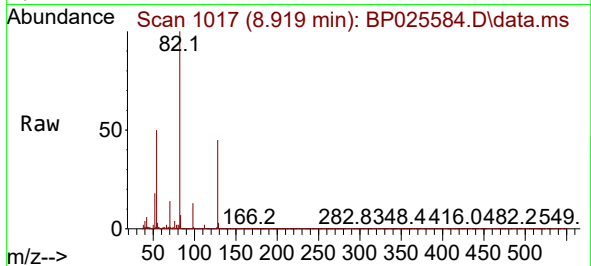
Tgt Ion:136 Resp: 970841
Ion Ratio Lower Upper
136 100
137 11.3 9.2 13.8
54 9.1 6.0 9.0#
68 6.3 4.3 6.5





#23
Nitrobenzene-d5
Concen: 45.544 ng
RT: 8.919 min Scan# 1017
Delta R.T. -0.018 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

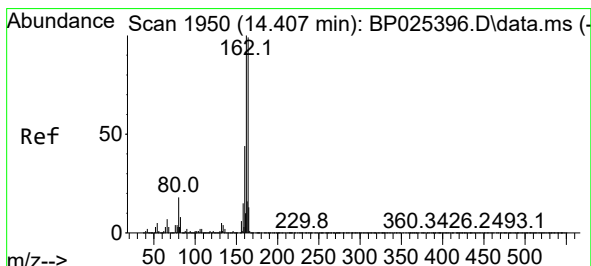
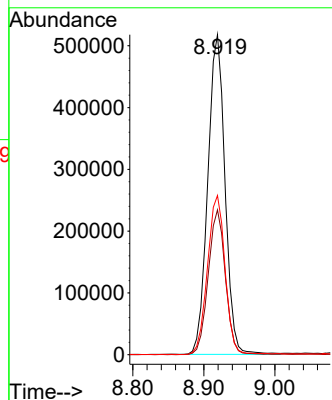
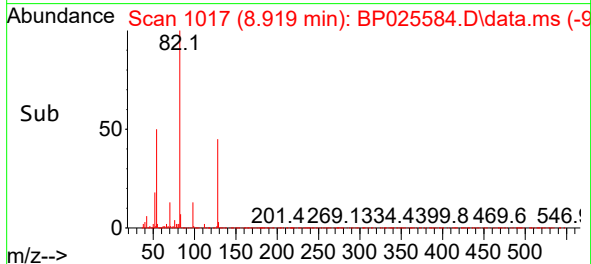
Instrument :
BNA_P
ClientSampleId :
ARS20-0002-SOIL



Tgt Ion: 82 Resp: 874080
Ion Ratio Lower Upper
82 100
128 45.2 37.7 56.5
54 49.7 39.8 59.6

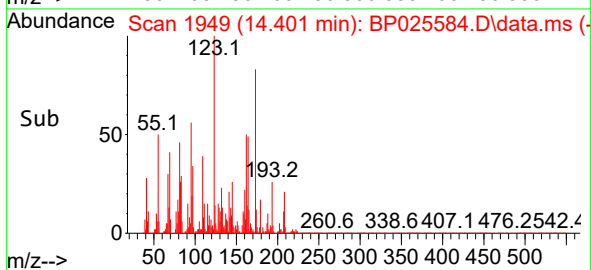
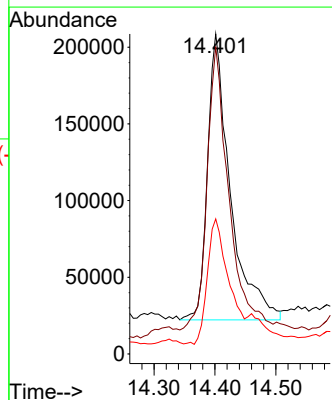
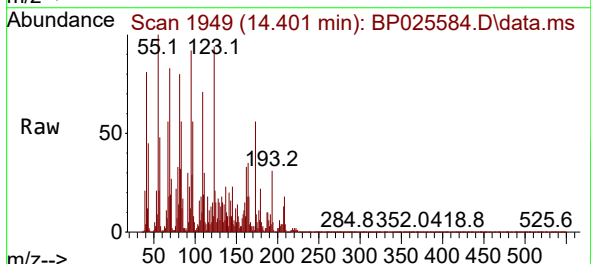
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.401 min Scan# 1949
Delta R.T. -0.006 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

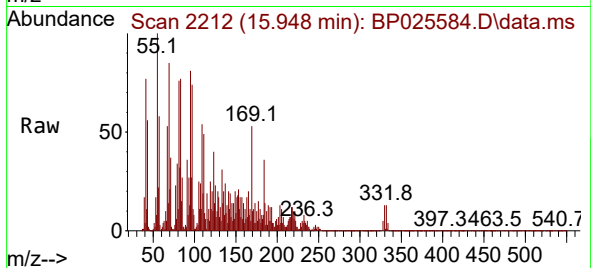
Tgt Ion:164 Resp: 487092
Ion Ratio Lower Upper
164 100
162 96.0 81.0 121.6
160 42.2 35.4 53.2





#42
2,4,6-Tribromophenol
Concen: 75.430 ng
RT: 15.948 min Scan# 21
Delta R.T. 0.035 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

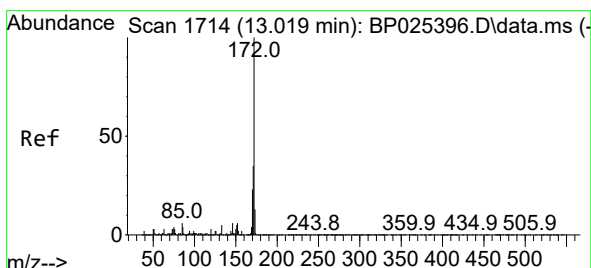
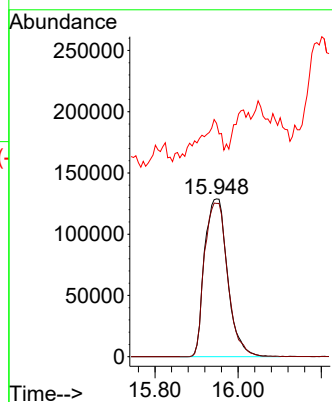
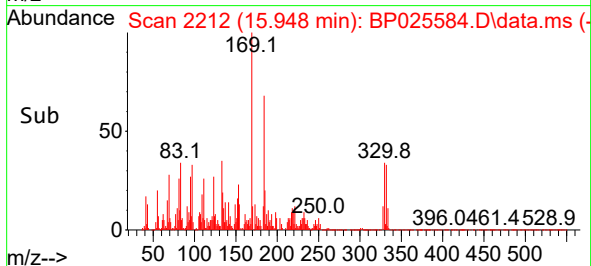
Instrument :
BNA_P
ClientSampleId :
ARS20-0002-SOIL



Tgt Ion:330 Resp: 49454
Ion Ratio Lower Upper
330 100
332 98.3 77.3 115.9
141 19.5 26.6 39.8

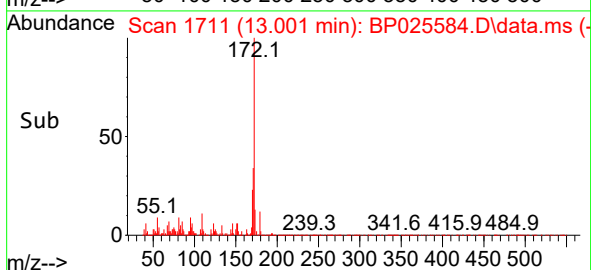
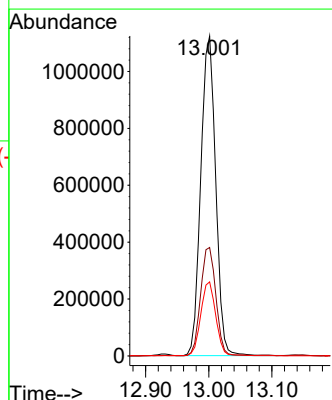
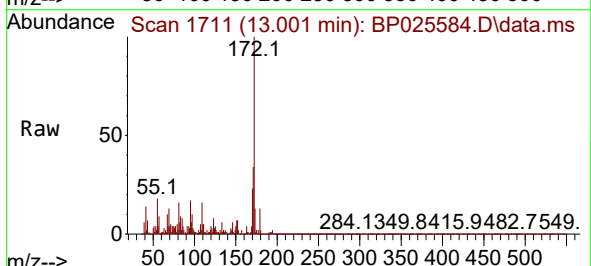
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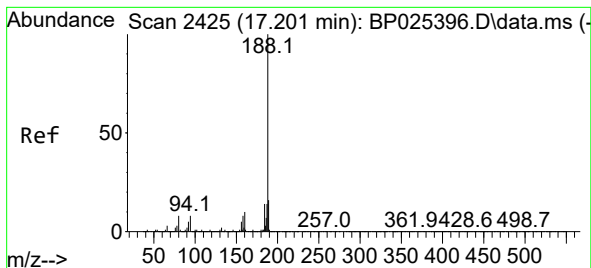
Reviewed By :Rahul Chavli 08/27/2025
Supervised By :Jagrut Upadhyay 08/27/2025



#45
2-Fluorobiphenyl
Concen: 51.720 ng
RT: 13.001 min Scan# 1711
Delta R.T. -0.018 min
Lab File: BP025584.D
Acq: 26 Aug 2025 13:51

Tgt Ion:172 Resp: 1843314
Ion Ratio Lower Upper
172 100
171 33.9 28.1 42.1
170 23.1 18.6 28.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.260 min Scan# 2425

Delta R.T. 0.059 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL

Tgt Ion:188 Resp: 51362

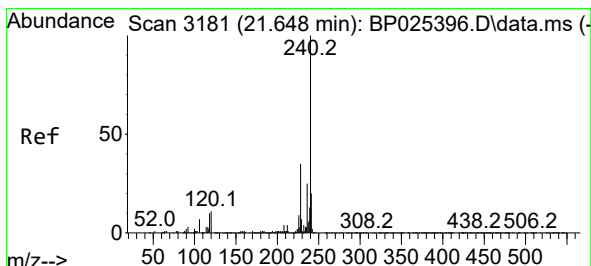
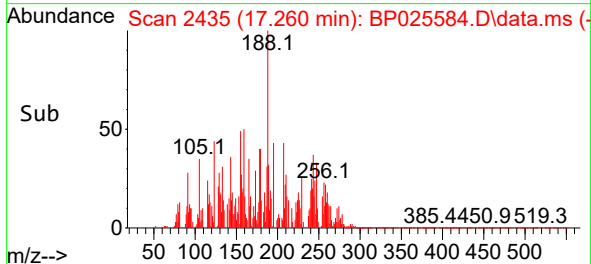
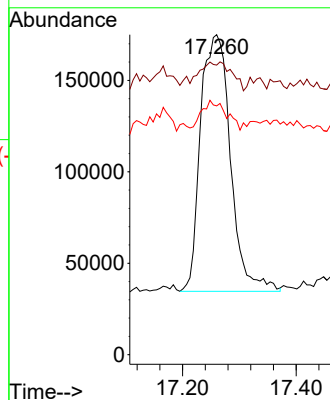
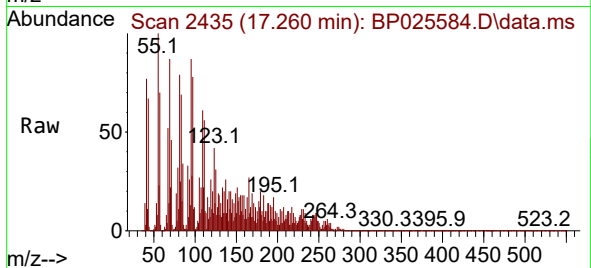
Ion	Ratio	Lower	Upper
188	100		
94	90.5	6.6	10.0
80	77.8	6.7	10.1

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/27/2025



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.666 min Scan# 3184

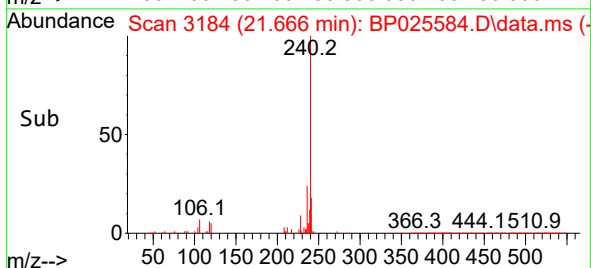
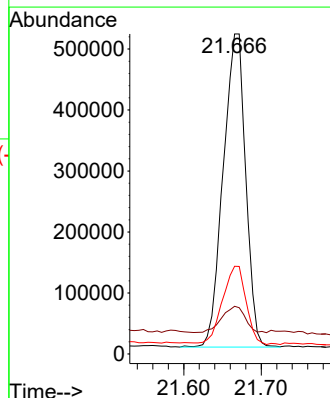
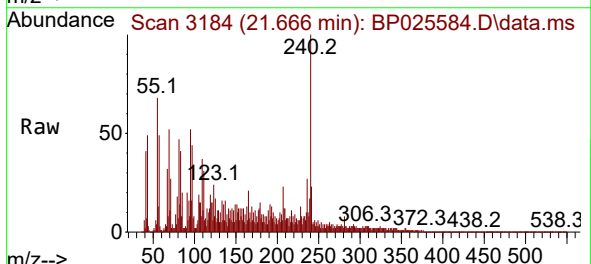
Delta R.T. 0.018 min

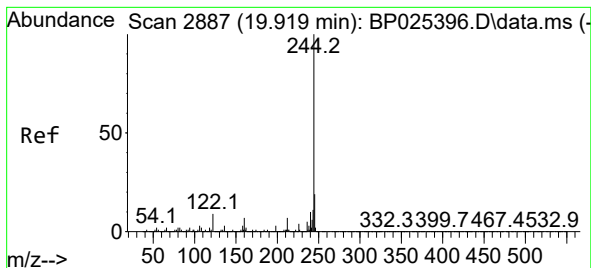
Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Tgt Ion:240 Resp: 1037204

Ion	Ratio	Lower	Upper
240	100		
120	14.9	8.9	13.3
236	27.4	19.8	29.8





#79

Terphenyl-d14

Concen: 34.568 ng

RT: 19.960 min Scan# 21

Delta R.T. 0.041 min

Lab File: BP025584.D

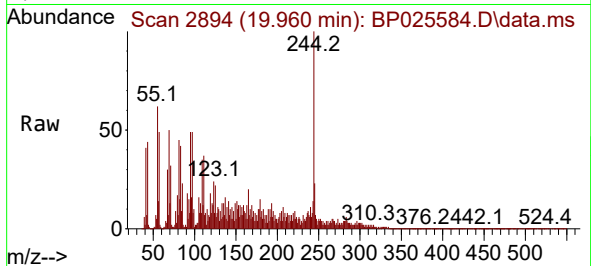
Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL



Tgt Ion:244 Resp: 195971

Ion Ratio Lower Upper

244 100

212 8.3 5.8 8.6

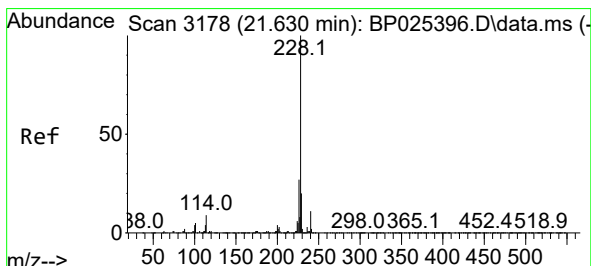
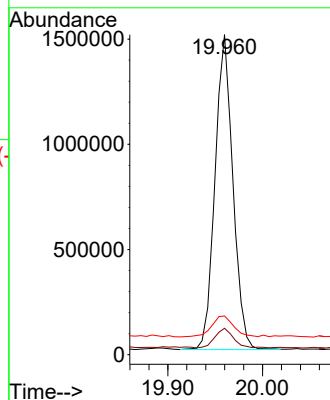
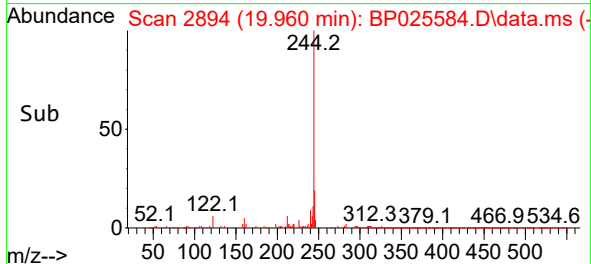
122 12.1 7.4 11.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/27/2025



#81

Benzo(a)anthracene

Concen: 4.794 ng

RT: 21.642 min Scan# 3180

Delta R.T. 0.012 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

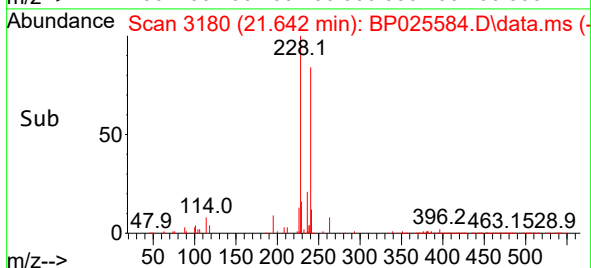
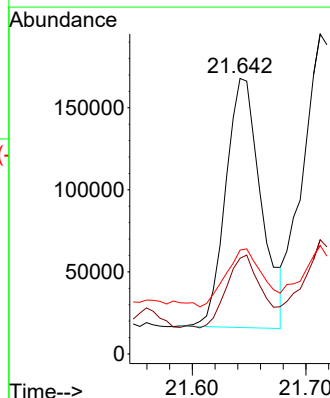
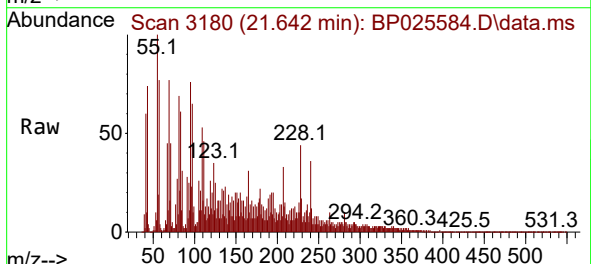
Tgt Ion:228 Resp: 327945

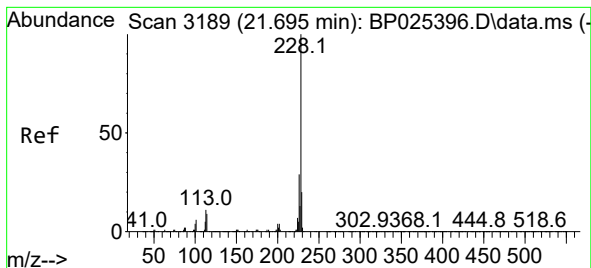
Ion Ratio Lower Upper

228 100

226 34.7 21.7 32.5#

229 37.7 15.6 23.4#





#83

Chrysene

Concen: 5.879 ng

RT: 21.713 min Scan# 3189

Delta R.T. 0.018 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL

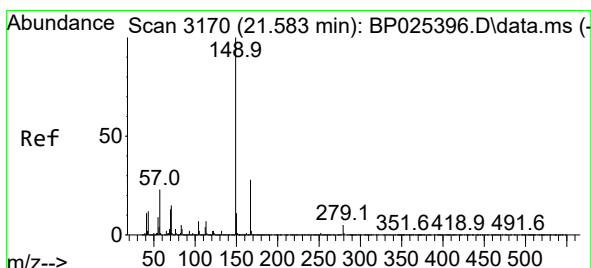
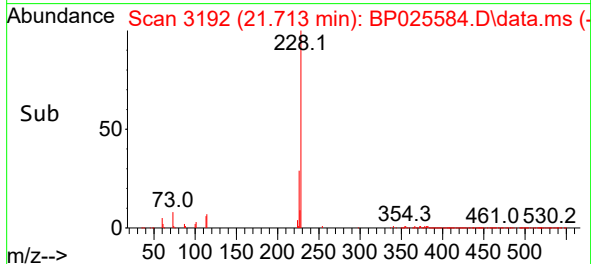
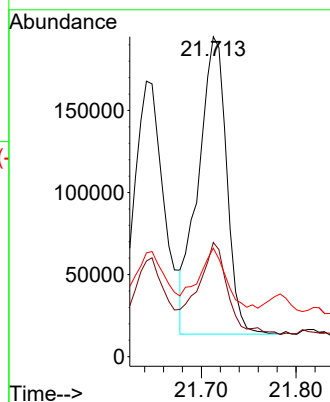
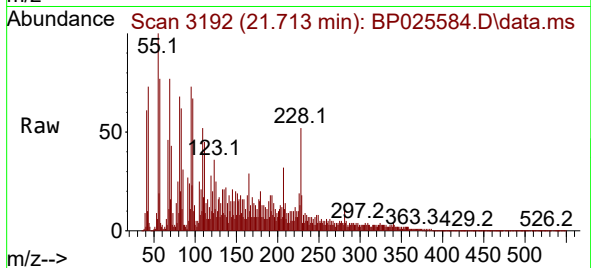
Tgt Ion:228 Resp: 376619
 Ion Ratio Lower Upper
 228 100
 226 35.7 23.2 34.8
 229 33.9 15.6 23.4

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/27/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 51.372 ng

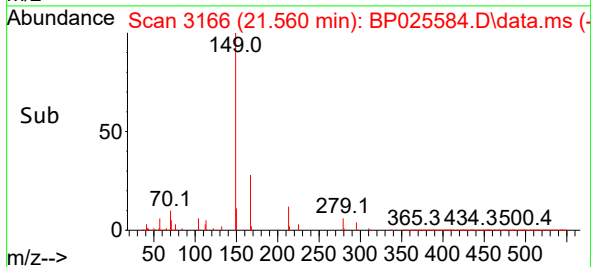
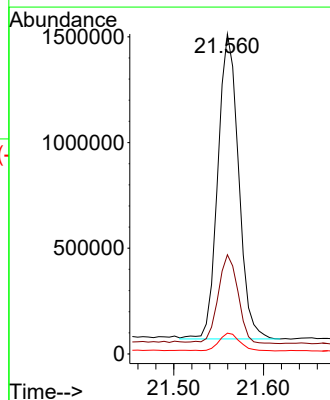
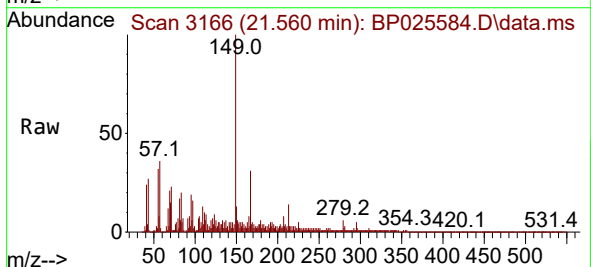
RT: 21.560 min Scan# 3166

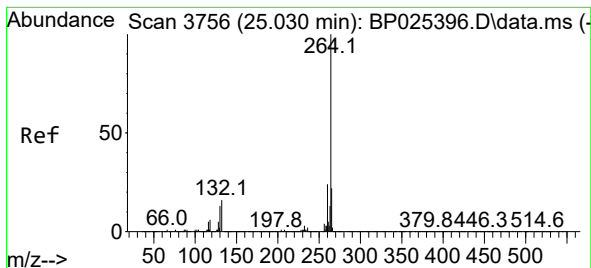
Delta R.T. -0.024 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Tgt Ion:149 Resp: 2310526
 Ion Ratio Lower Upper
 149 100
 167 31.0 22.1 33.1
 279 6.5 3.8 5.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.018 min Scan# 31

Delta R.T. -0.012 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL

Tgt Ion:264 Resp: 1292000

Ion Ratio Lower Upper

264 100

260 23.3 19.3 28.9

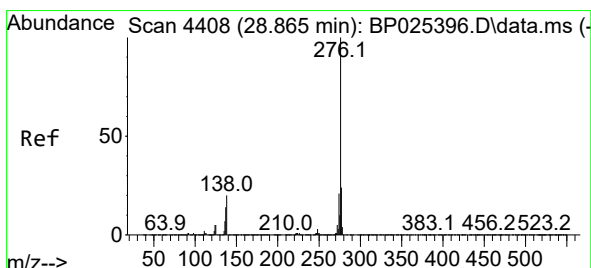
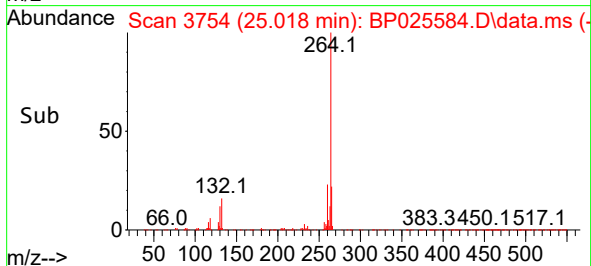
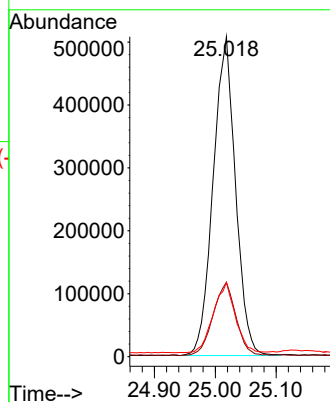
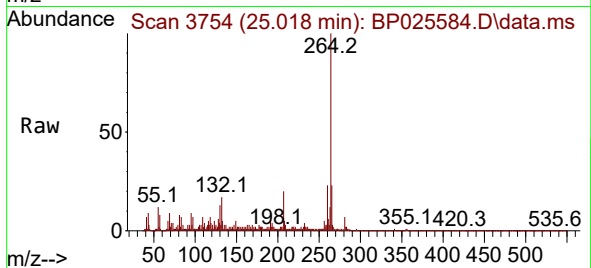
265 23.2 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/27/2025

Supervised By :Jagrut Upadhyay 08/27/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.289 ng

RT: 28.842 min Scan# 4404

Delta R.T. -0.023 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

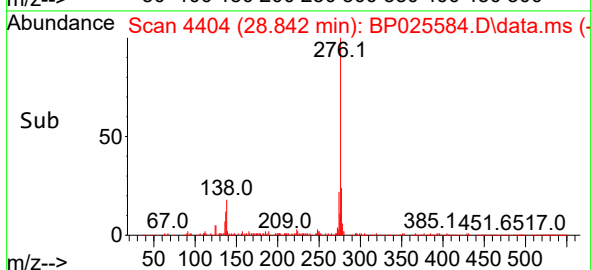
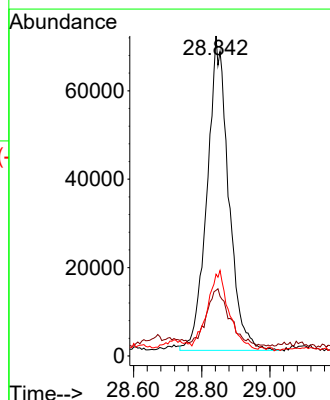
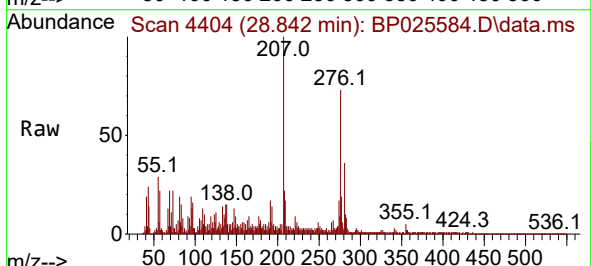
Tgt Ion:276 Resp: 311607

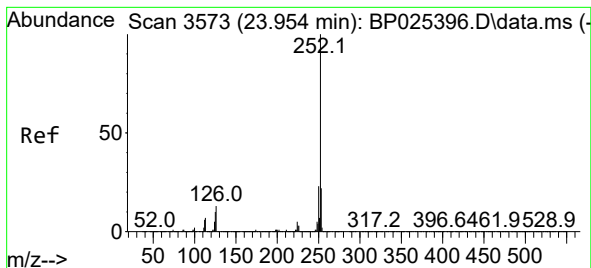
Ion Ratio Lower Upper

276 100

138 19.9 12.9 19.3#

277 24.7 17.0 25.6





#88

Benzo(b)fluoranthene

Concen: 8.677 ng

RT: 23.960 min Scan# 3573

Delta R.T. 0.006 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL

Tgt Ion:252 Resp: 661030

Ion Ratio Lower Upper

252 100

253 24.7 17.7 26.5

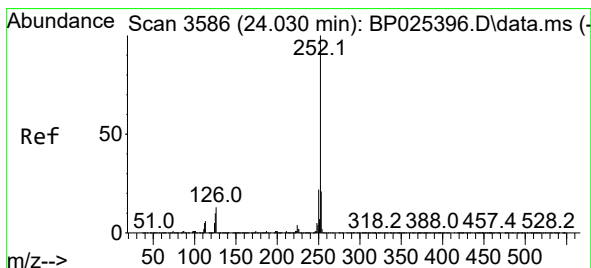
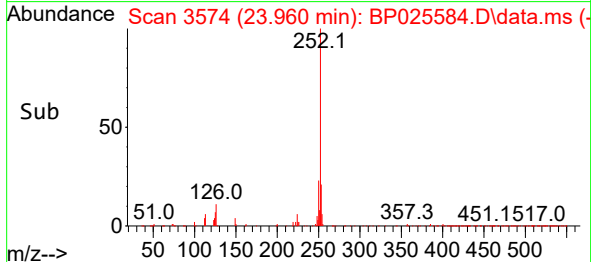
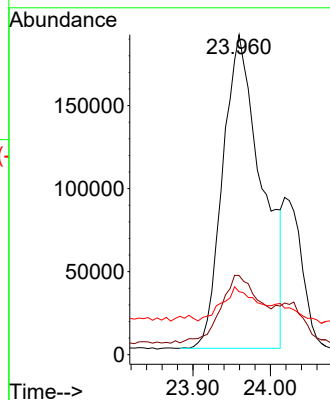
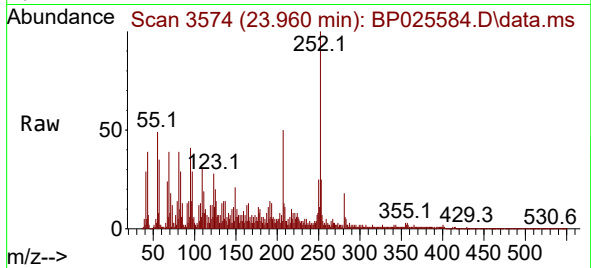
125 19.7 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/27/2025

Supervised By :Jagrut Upadhyay 08/27/2025



#89

Benzo(k)fluoranthene

Concen: 2.469 ng m

RT: 24.018 min Scan# 3584

Delta R.T. -0.012 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

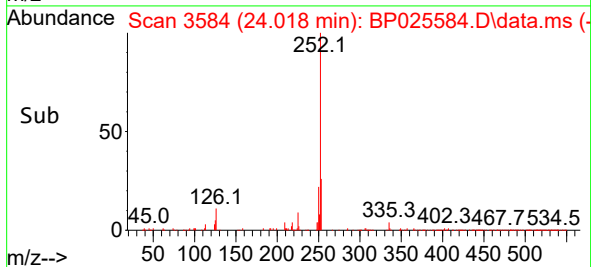
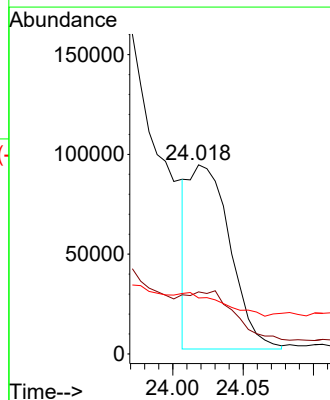
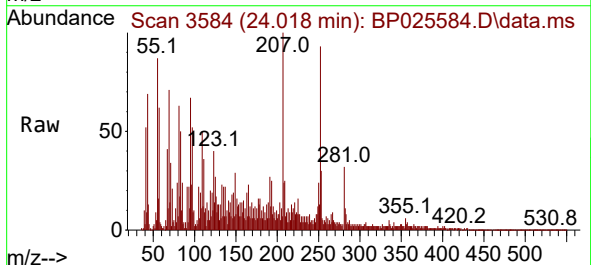
Tgt Ion:252 Resp: 188268

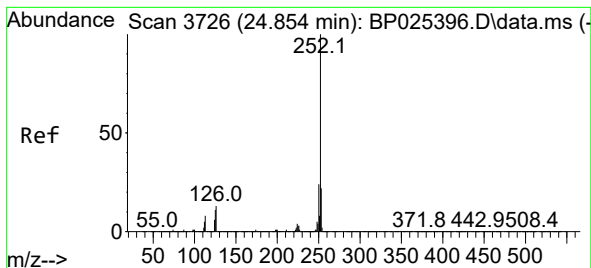
Ion Ratio Lower Upper

252 100

253 32.8 17.1 25.7#

125 29.6 7.8 11.6#





#90

Benzo(a)pyrene

Concen: 3.714 ng

RT: 24.860 min Scan# 31

Delta R.T. 0.006 min

Lab File: BP025584.D

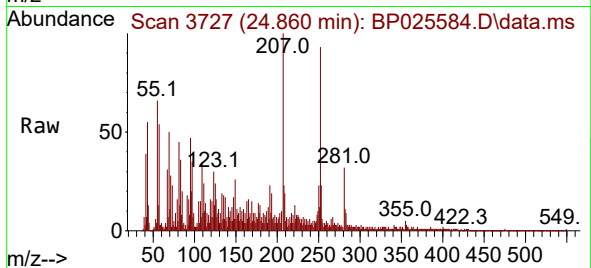
Acq: 26 Aug 2025 13:51

Instrument :

BNA_P

ClientSampleId :

ARS20-0002-SOIL



Tgt Ion:252 Resp: 27545

Ion Ratio Lower Upper

252 100

253 25.3 17.5 26.3

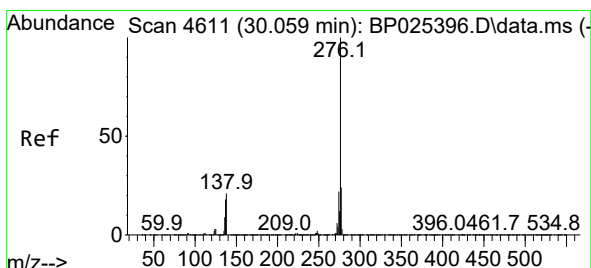
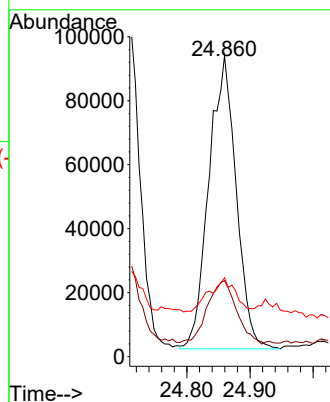
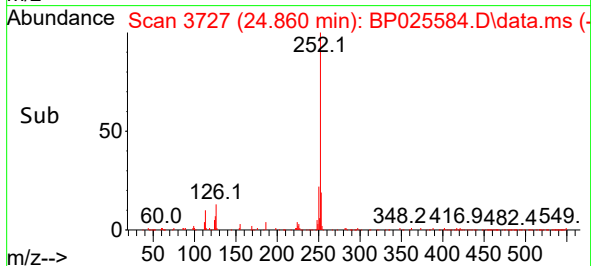
125 26.2 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/27/2025

Supervised By :Jagrut Upadhyay 08/27/2025



#92

Benzo(g,h,i)perylene

Concen: 3.687 ng

RT: 30.018 min Scan# 4604

Delta R.T. -0.041 min

Lab File: BP025584.D

Acq: 26 Aug 2025 13:51

Tgt Ion:276 Resp: 280597

Ion Ratio Lower Upper

276 100

277 27.8 19.4 29.0

138 22.6 16.7 25.1

