

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP100125\
 Data File : BP025910.D
 Acq On : 01 Oct 2025 21:17
 Operator : CG/JU
 Sample : Q3256-01 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SOIL-PILE-1-WC

Manual Integrations
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Reviewed By :Rahul
 Chavli

Quant Time: Oct 02 10:40:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP091225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 16:45:04 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							10/03/2025
1) 1,4-Dichlorobenzene-d4	7.743	152	229305	20.000	ng	-0.02	Supervised By :Jagrut padhyay
21) Naphthalene-d8	10.502	136	892631	20.000	ng	-0.02	
39) Acenaphthene-d10	14.354	164	568697	20.000	ng	-0.02	
64) Phenanthrene-d10	17.148	188	1066627	20.000	ng	-0.04	
76) Chrysene-d12	21.595	240	990972	20.000	ng	-0.05	
86) Perylene-d12	24.942	264	1150278	20.000	ng	-0.06	10/03/2025
System Monitoring Compounds							
5) 2-Fluorophenol	5.390	112	161109	11.337	ng	0.00	
7) Phenol-d6	6.966	99	197036	10.431	ng	0.02	
23) Nitrobenzene-d5	8.896	82	126260	6.239	ng	0.00	
42) 2,4,6-Tribromophenol	15.878	330	82106	11.575	ng	-0.03	
45) 2-Fluorobiphenyl	12.966	172	296726	6.947	ng	-0.02	
79) Terphenyl-d14	19.866	244	411119	7.463	ng	-0.05	
Target Compounds							Qvalue
31) Naphthalene	10.549	128	381797	7.932	ng		99
37) 2-Methylnaphthalene	12.160	142	522899	16.915	ng		99
38) 1-Methylnaphthalene	12.384	142	538310	16.329	ng		99
49) Acenaphthylene	14.072	152	1019192	18.715	ng		98
52) Acenaphthene	14.413	154	154313	4.913	ng		98
58) Fluorene	15.419	166	594160	14.598	ng		98
71) Phenanthrene	17.195	178	4727609	78.135	ng		99
72) Anthracene	17.284	178	1275549	20.778	ng		100
75) Fluoranthene	19.283	202	3990060	54.986	ng		98
78) Pyrene	19.654	202	6100653	92.262	ng		99
81) Benzo(a)anthracene	21.572	228	2588122	38.149	ng		91
83) Chrysene	21.636	228	2796739	43.245	ng		97
87) Indeno(1,2,3-cd)pyrene	28.754	276	1087696	13.003	ng	#	81
88) Benzo(b)fluoranthene	23.883	252	2053557	29.194	ng		99
89) Benzo(k)fluoranthene	23.942	252	681317m	9.492	ng		
90) Benzo(a)pyrene	24.783	252	1878651	27.272	ng		97
91) Dibenzo(a,h)anthracene	28.783	278	370968m	5.419	ng		
92) Benzo(g,h,i)perylene	29.918	276	1227458	18.233	ng		98

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

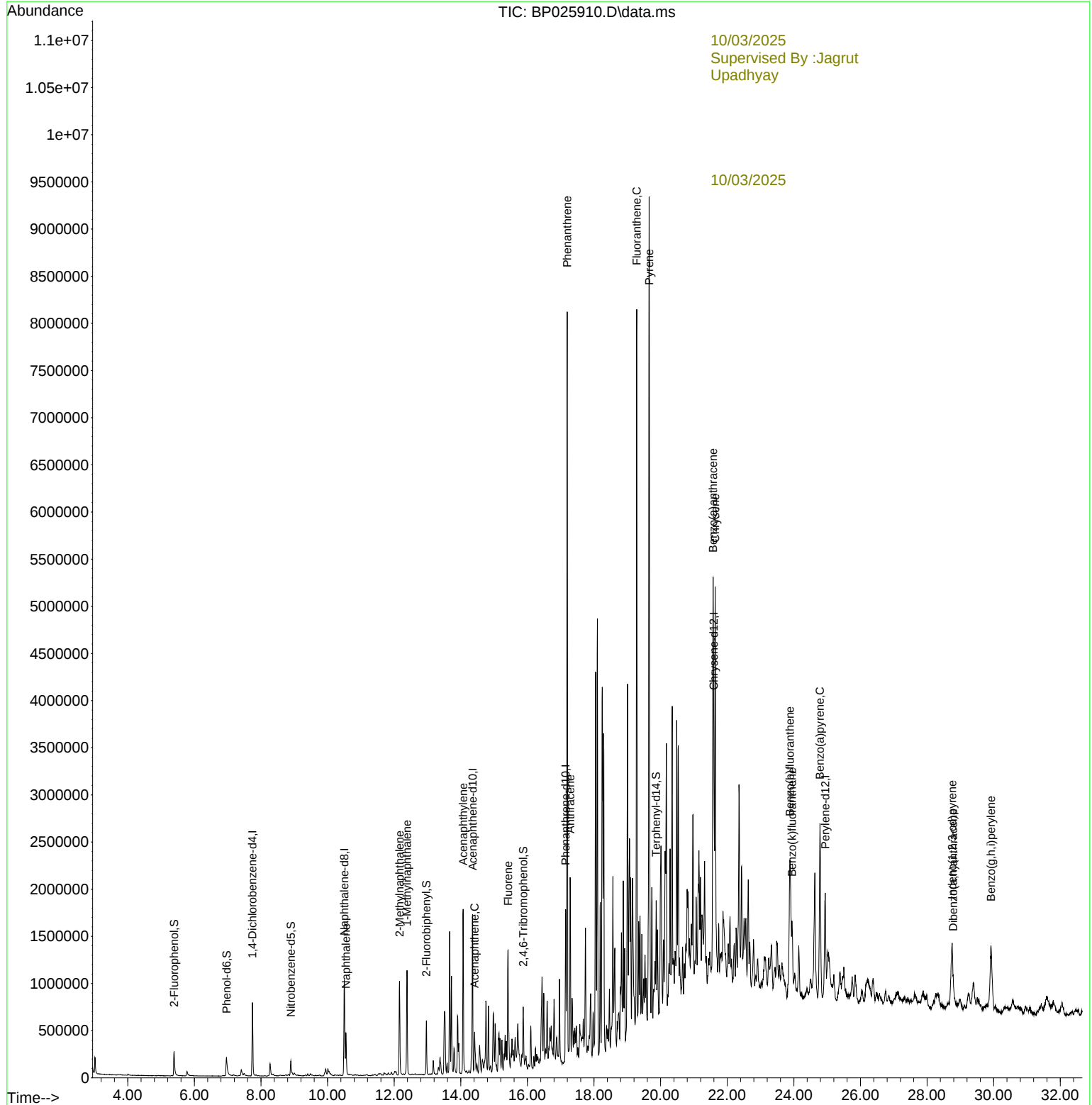
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP100125\
Data File : BP025910.D
Acq On : 01 Oct 2025 21:17
Operator : CG/JU
Sample : Q3256-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

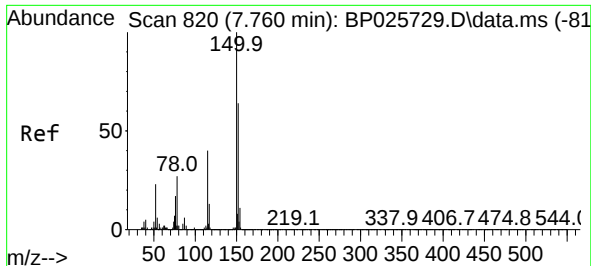
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

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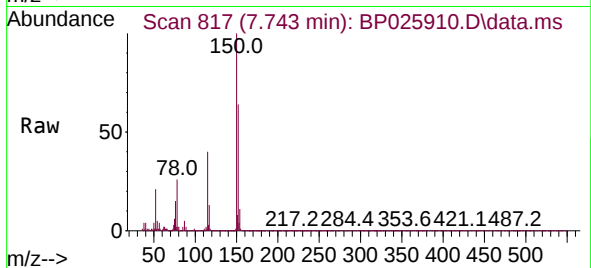
Quant Time: Oct 02 10:40:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP091225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 11 16:45:04 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.743 min Scan# 81
Delta R.T. -0.017 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

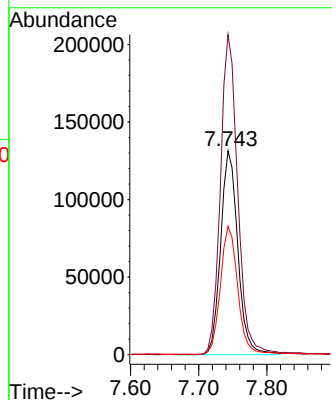
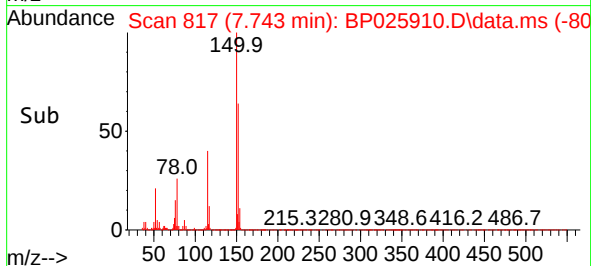
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC



Tgt Ion:152 Resp: 229305
Ion Ratio Lower Upper
152 100
150 157.0 124.3 186.5
115 62.9 50.3 75.5

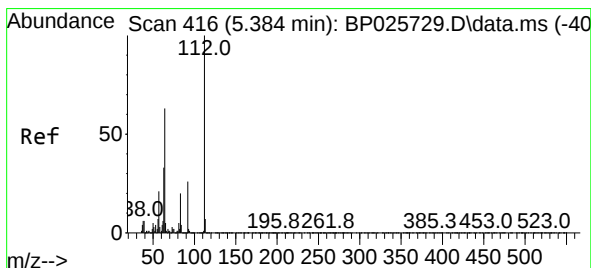
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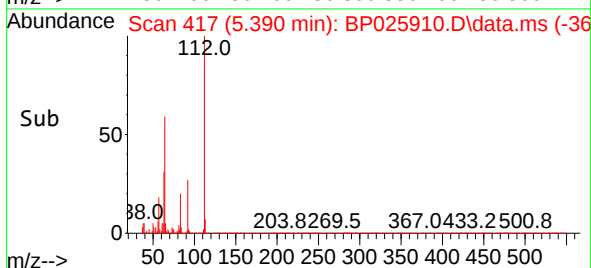
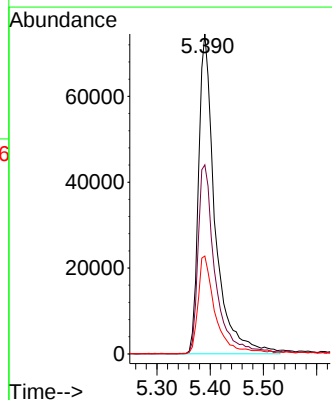
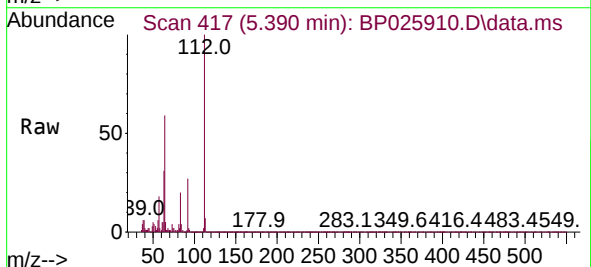
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Upadhyay

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#5
2-Fluorophenol
Concen: 11.337 ng
RT: 5.390 min Scan# 417
Delta R.T. 0.006 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

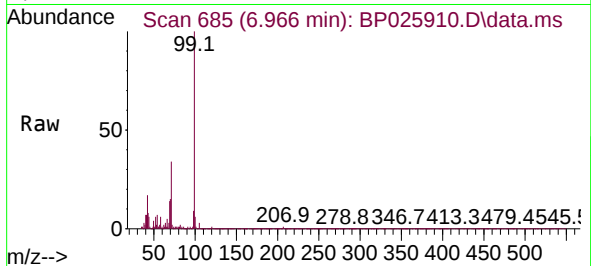
Tgt Ion:112 Resp: 161109
Ion Ratio Lower Upper
112 100
64 59.1 50.2 75.4
63 30.6 26.7 40.1





#7
Phenol-d6
Concen: 10.431 ng
RT: 6.966 min Scan# 685
Delta R.T. 0.018 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

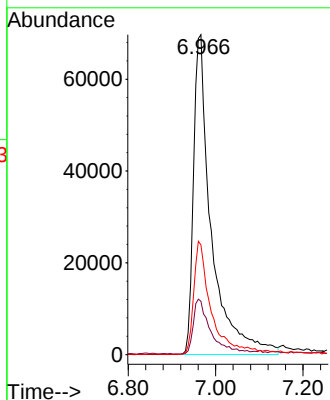
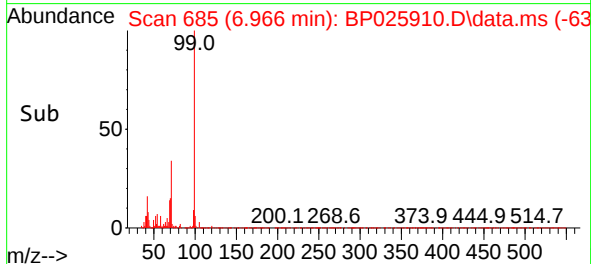
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC



Tgt Ion: 99 Resp: 197036
Ion Ratio Lower Upper
99 100
42 16.7 15.6 23.4
71 34.3 28.6 43.0

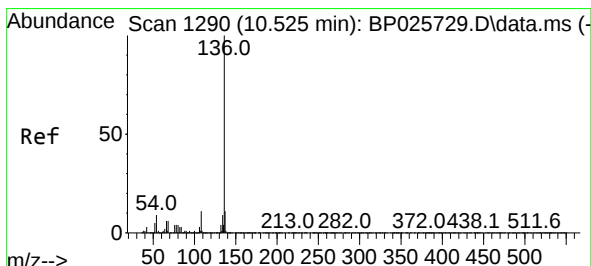
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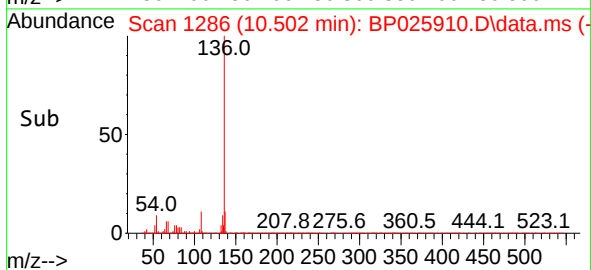
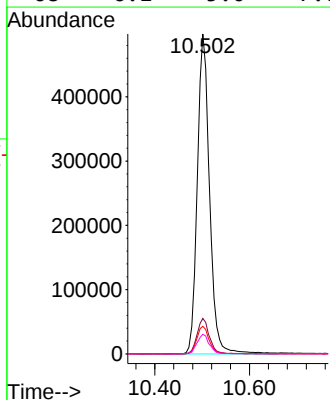
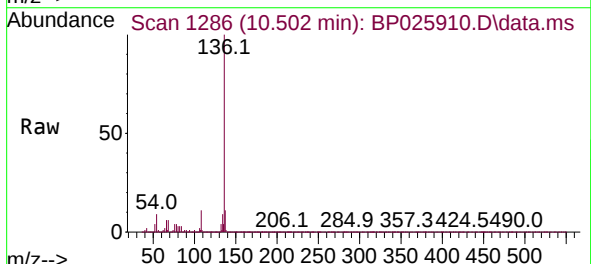
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Upadhyay

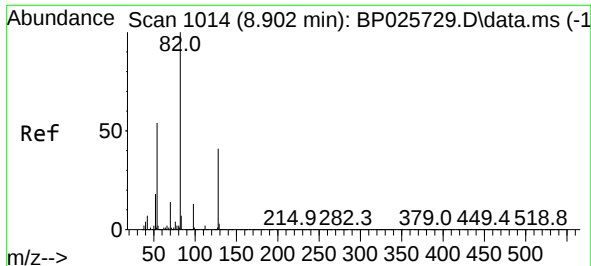
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.502 min Scan# 1286
Delta R.T. -0.024 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

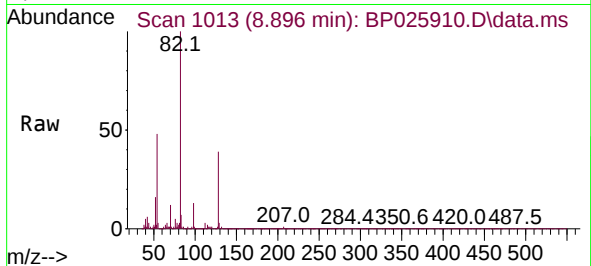
Tgt Ion:136 Resp: 892631
Ion Ratio Lower Upper
136 100
137 11.1 8.7 13.1
54 8.6 7.5 11.3
68 6.1 5.0 7.6





#23
Nitrobenzene-d5
Concen: 6.239 ng
RT: 8.896 min Scan# 1013
Delta R.T. -0.006 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

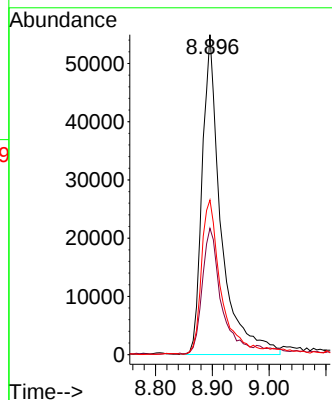
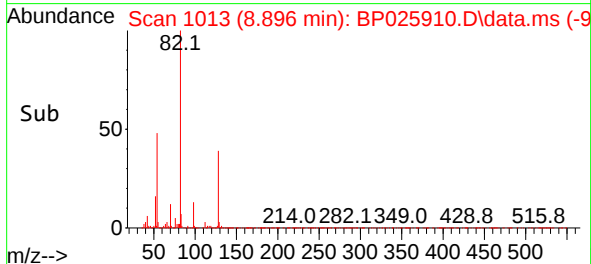
Instrument :
BNA_P
ClientSampleId :
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Tgt Ion: 82 Resp: 126260
Ion Ratio Lower Upper
82 100
128 39.5 32.9 49.3
54 48.3 43.4 65.2

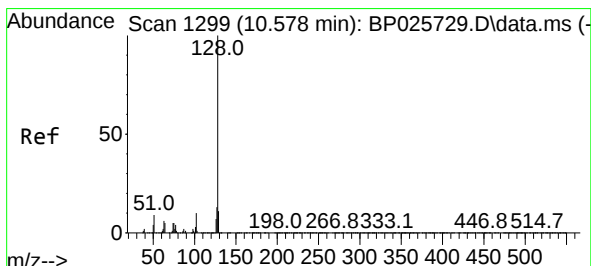
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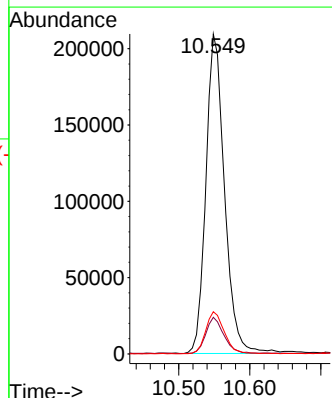
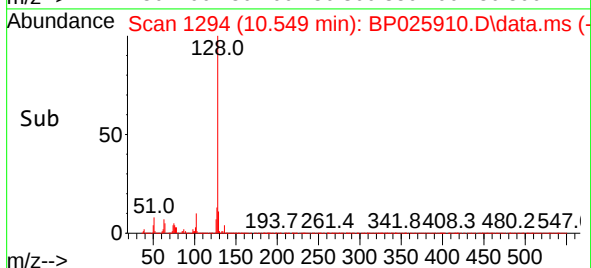
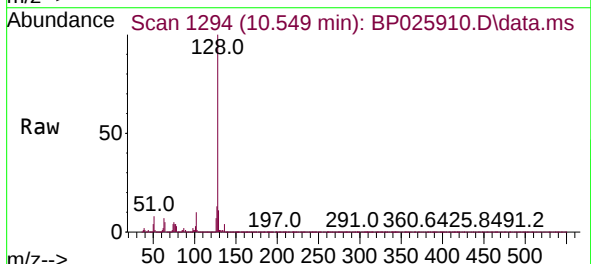
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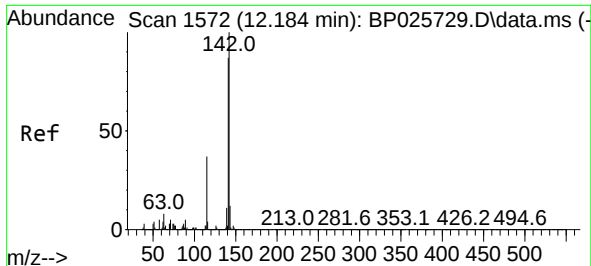
10/03/2025



#31
Naphthalene
Concen: 7.932 ng
RT: 10.549 min Scan# 1294
Delta R.T. -0.029 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:128 Resp: 381797
Ion Ratio Lower Upper
128 100
129 11.4 8.6 12.8
127 13.2 10.2 15.4





#37
2-Methylnaphthalene
Concen: 16.915 ng
RT: 12.160 min Scan# 1568
Delta R.T. -0.024 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

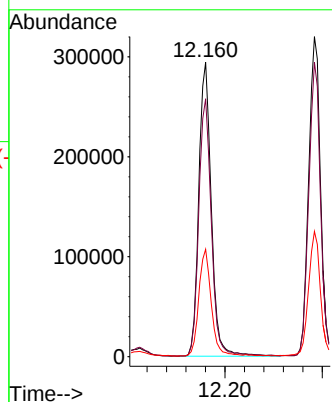
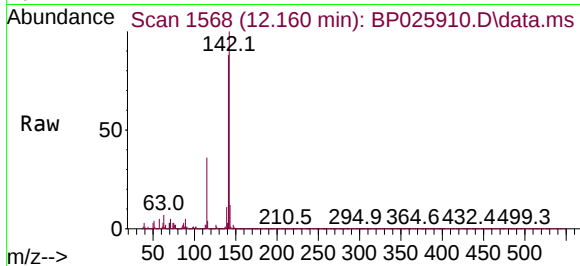
ClientSampleId :

SOIL-PILE-1-WC

Tgt Ion:142 Resp: 522899
Ion Ratio Lower Upper
142 100
141 87.6 69.6 104.4
115 36.4 30.0 45.0

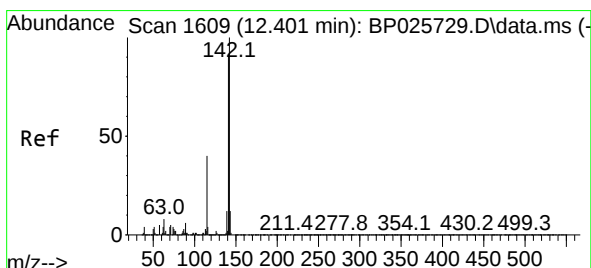
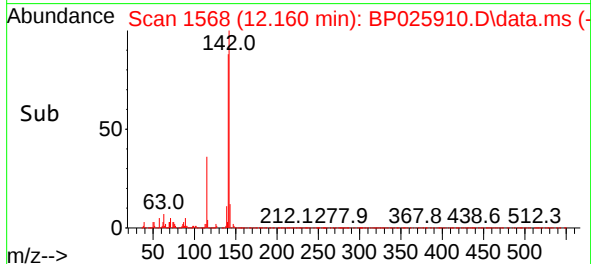
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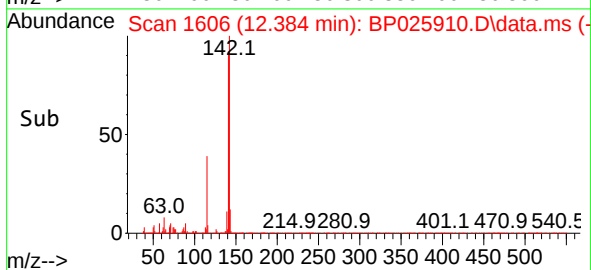
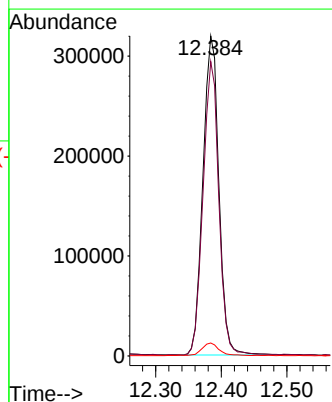
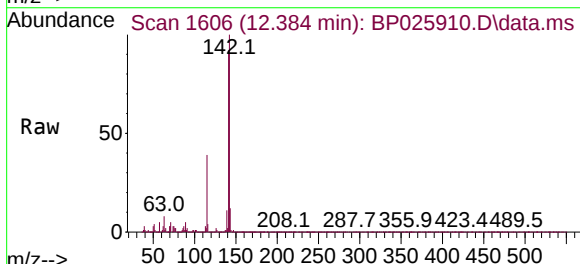
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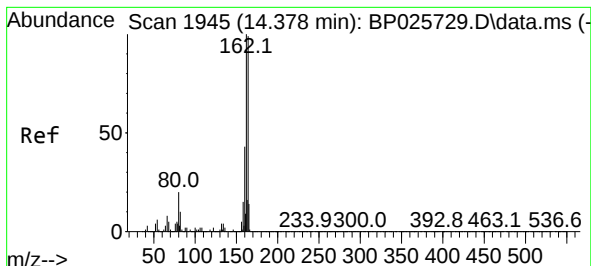
10/03/2025



#38
1-Methylnaphthalene
Concen: 16.329 ng
RT: 12.384 min Scan# 1606
Delta R.T. -0.018 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:142 Resp: 538310
Ion Ratio Lower Upper
142 100
141 92.0 72.7 109.1
116 4.0 3.5 5.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.354 min Scan# 1941

Delta R.T. -0.024 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

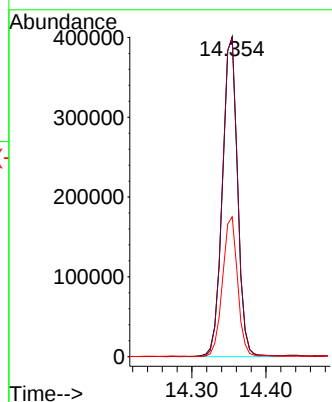
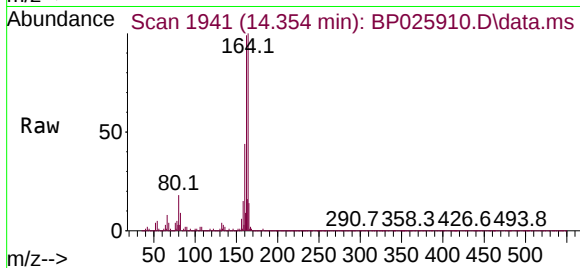
ClientSampleId :

SOIL-PILE-1-WC

Tgt Ion:164	Resp: 56869
Ion Ratio	Lower Upper
164 100	
162 99.5	80.6 120.8
160 43.7	35.0 52.6

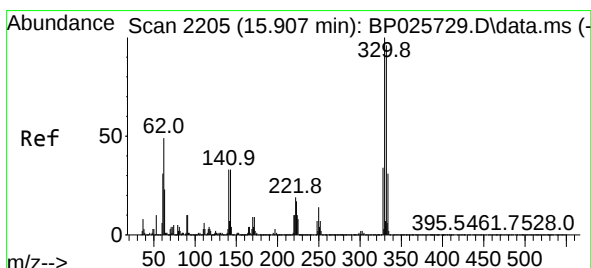
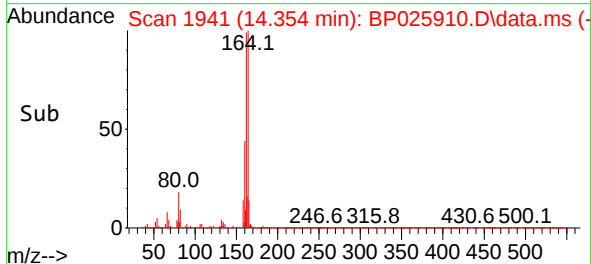
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#42

2,4,6-Tribromophenol

Concen: 11.575 ng

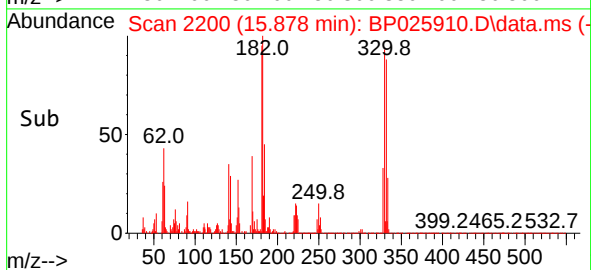
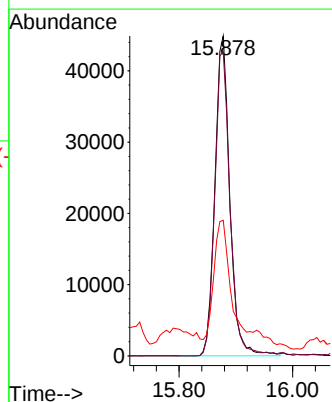
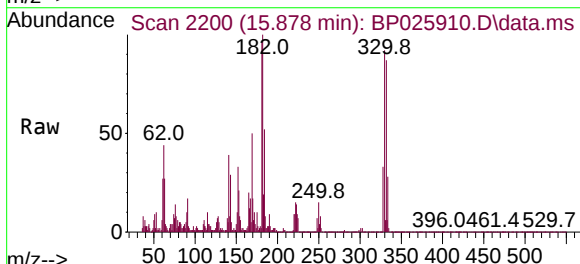
RT: 15.878 min Scan# 2200

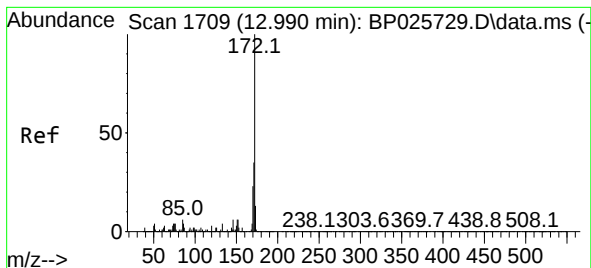
Delta R.T. -0.029 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

Tgt Ion:330	Resp: 82106
Ion Ratio	Lower Upper
330 100	
332 96.9	76.9 115.3
141 40.3	31.0 46.4





#45
2-Fluorobiphenyl
Concen: 6.947 ng
RT: 12.966 min Scan# 1705
Delta R.T. -0.023 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

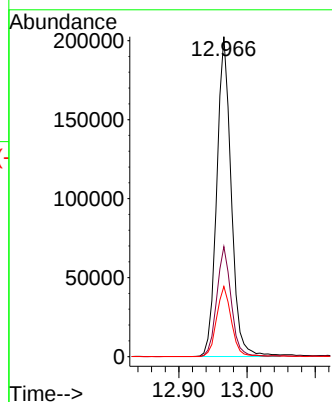
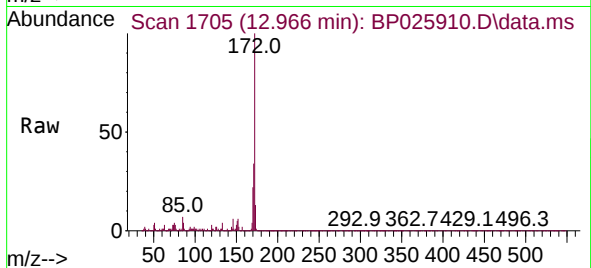
ClientSampleId :

SOIL-PILE-1-WC

Tgt Ion:172 Resp: 296726
Ion Ratio Lower Upper
172 100
171 34.4 27.8 41.6
170 21.9 18.6 27.8

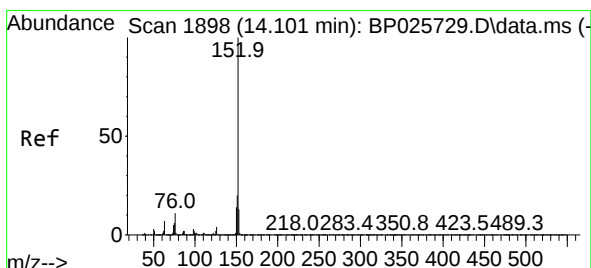
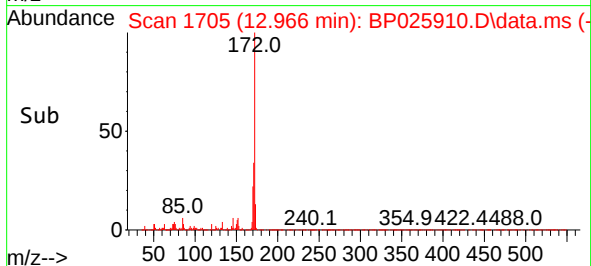
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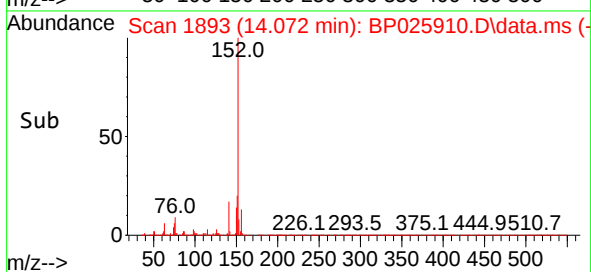
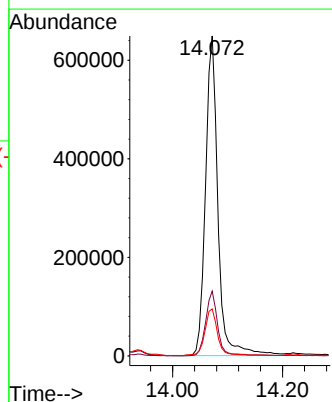
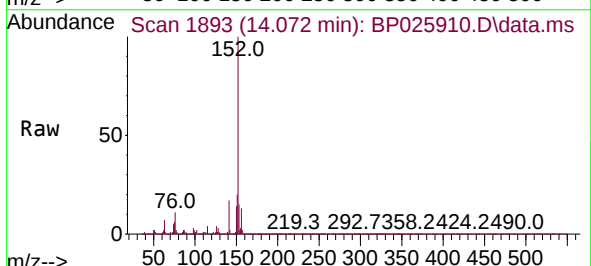
10/03/2025
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Upadhyay

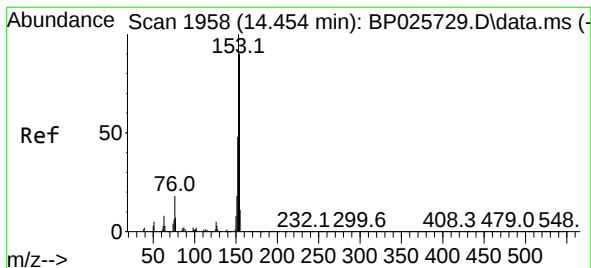
10/03/2025



#49
Acenaphthylene
Concen: 18.715 ng
RT: 14.072 min Scan# 1893
Delta R.T. -0.029 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:152 Resp: 1019192
Ion Ratio Lower Upper
152 100
151 20.2 15.8 23.6
153 14.7 10.5 15.7





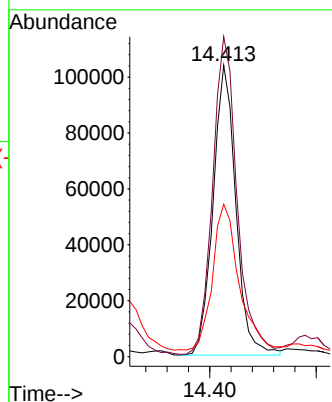
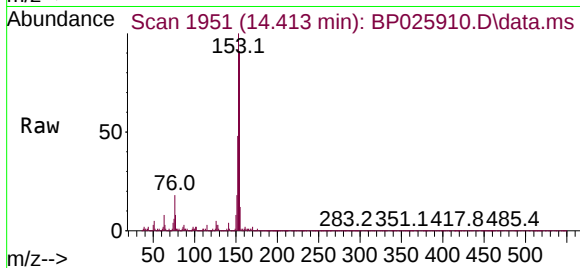
#52
Acenaphthene
Concen: 4.913 ng
RT: 14.413 min Scan# 1958
Delta R.T. -0.041 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

Tgt Ion:154 Resp: 154313
Ion Ratio Lower Upper
154 100
153 109.9 89.4 134.0
152 52.3 42.5 63.7

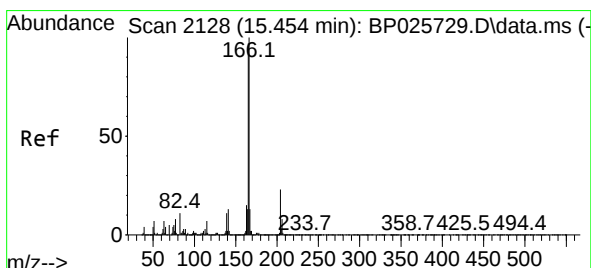
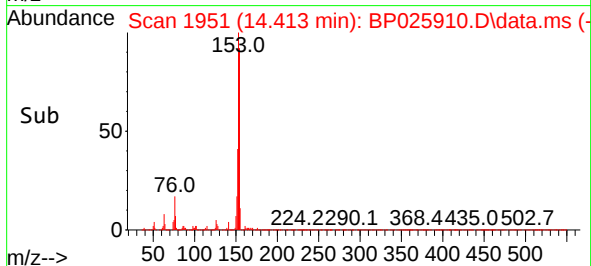
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Chavli



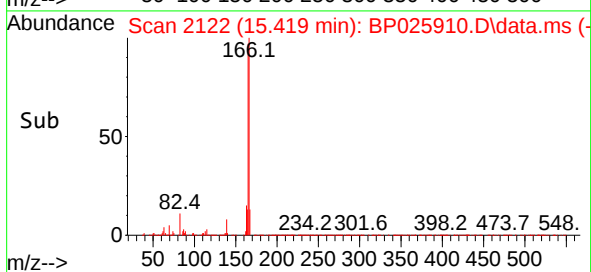
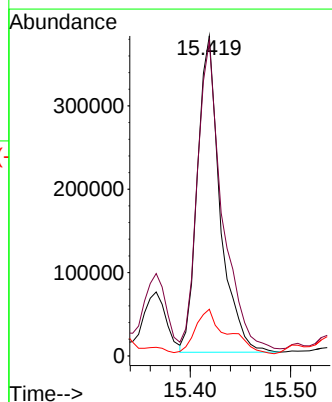
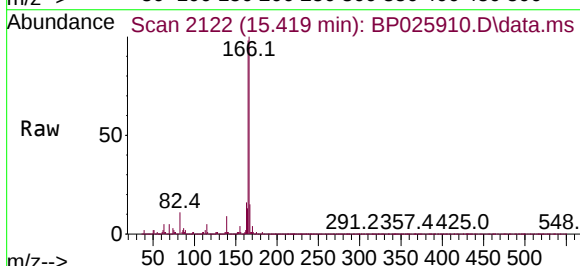
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Supervised By :Jagrut
Upadhyay

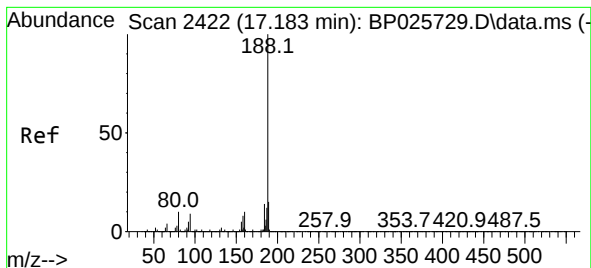
10/03/2025



#58
Fluorene
Concen: 14.598 ng
RT: 15.419 min Scan# 2122
Delta R.T. -0.035 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:166 Resp: 594160
Ion Ratio Lower Upper
166 100
165 98.4 77.7 116.5
167 14.6 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.148 min Scan# 2416
Delta R.T. -0.035 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

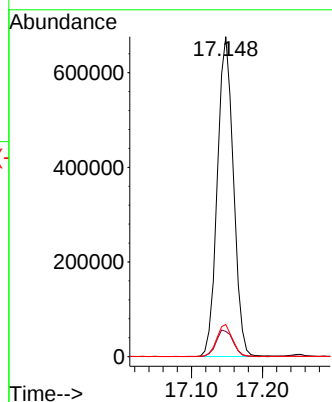
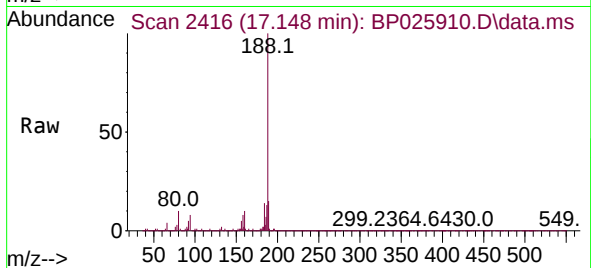
ClientSampleId :

SOIL-PILE-1-WC

Tgt Ion:188 Resp: 1066627
Ion Ratio Lower Upper
188 100
94 7.9 7.4 11.0
80 10.0 7.7 11.5

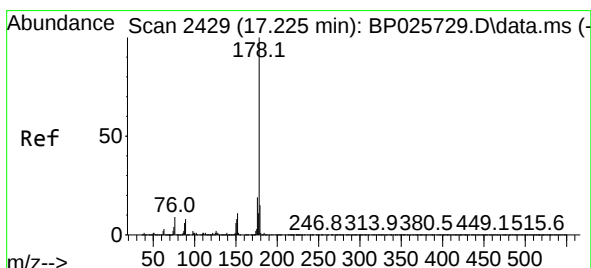
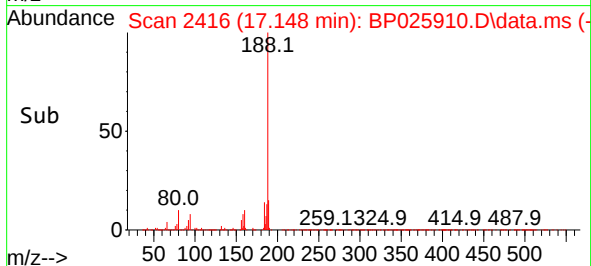
Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli



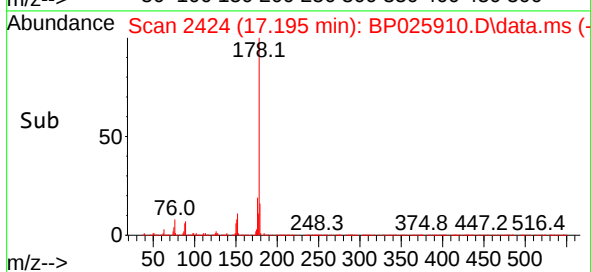
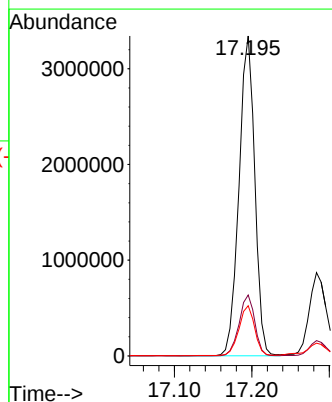
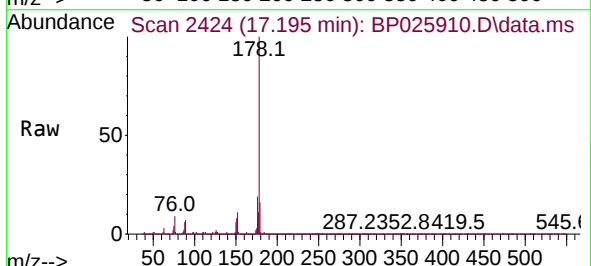
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Supervised By :Jagrut
Upadhyay

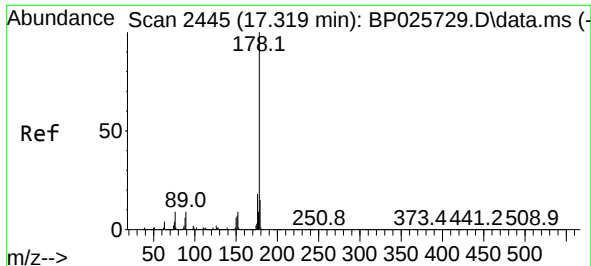
10/03/2025



#71
Phenanthrene
Concen: 78.135 ng
RT: 17.195 min Scan# 2424
Delta R.T. -0.029 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:178 Resp: 4727609
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.7 12.2 18.4





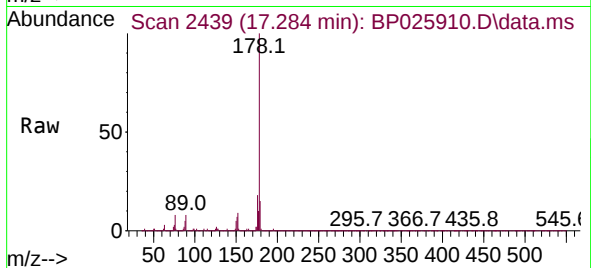
#72
 Anthracene
 Concen: 20.778 ng
 RT: 17.284 min Scan# 2445
 Delta R.T. -0.035 min
 Lab File: BP025910.D
 Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

ClientSampleId :

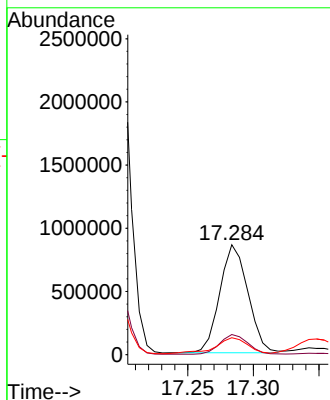
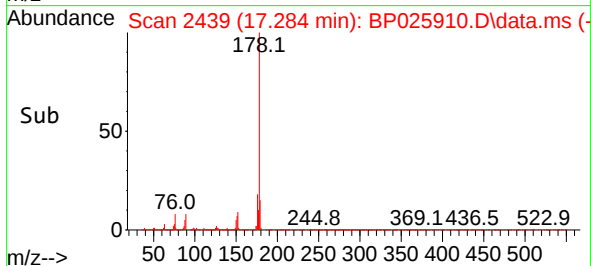
SOIL-PILE-1-WC



Tgt Ion:178 Resp: 1275549
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.8 22.2
 179 15.3 12.2 18.4

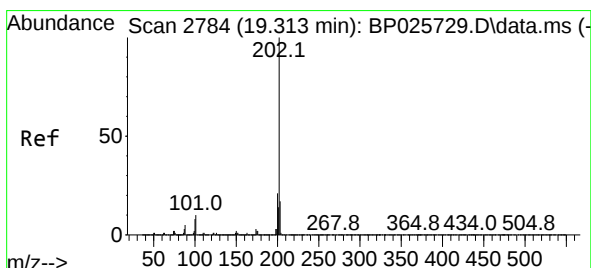
Manual Integrations
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Reviewed By :Rahul
 Chavli

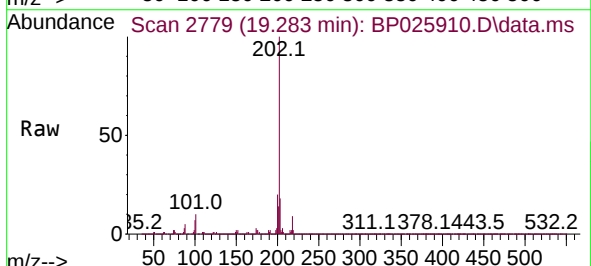


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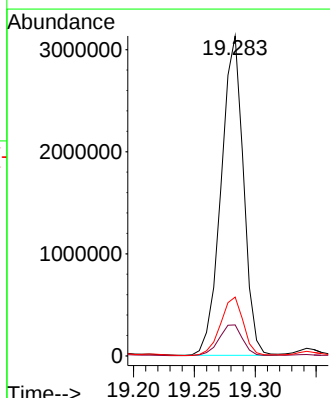
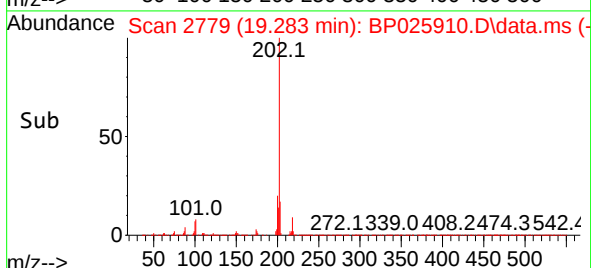
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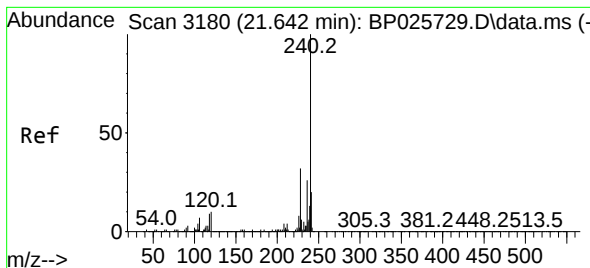


#75
 Fluoranthene
 Concen: 54.986 ng
 RT: 19.283 min Scan# 2779
 Delta R.T. -0.029 min
 Lab File: BP025910.D
 Acq: 01 Oct 2025 21:17



Tgt Ion:202 Resp: 3990060
 Ion Ratio Lower Upper
 202 100
 101 9.7 0.0 30.4
 203 18.4 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.595 min Scan# 31

Delta R.T. -0.047 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

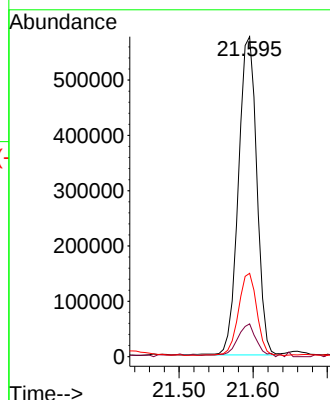
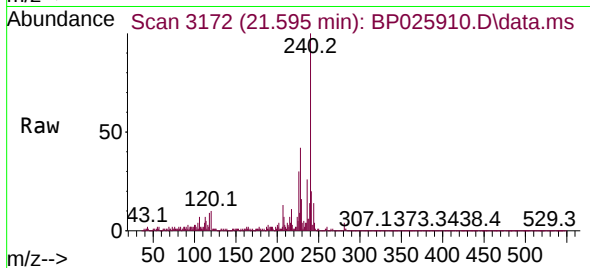
ClientSampleId :

SOIL-PILE-1-WC

Tgt Ion:240 Resp: 990972
 Ion Ratio Lower Upper
 240 100
 120 10.2 8.0 12.0
 236 26.0 20.7 31.1

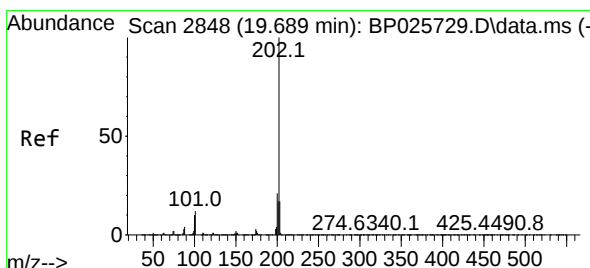
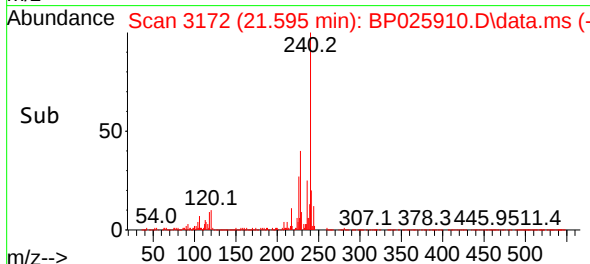
Manual Integrations
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Reviewed By :Rahul
 Chavli



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 Supervised By :Jagrut
 Upadhyay

10/03/2025



#78

Pyrene

Concen: 92.262 ng

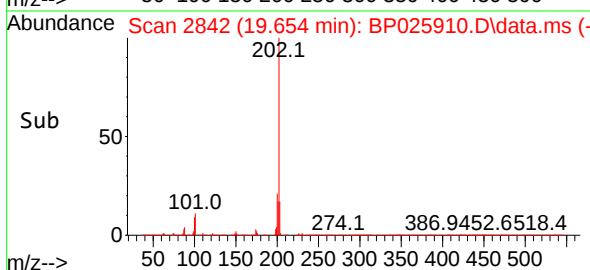
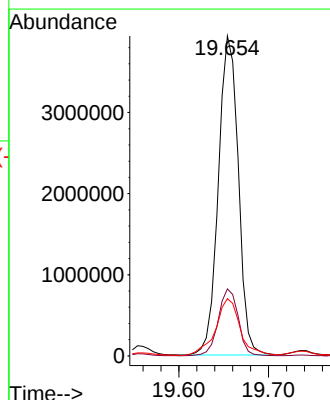
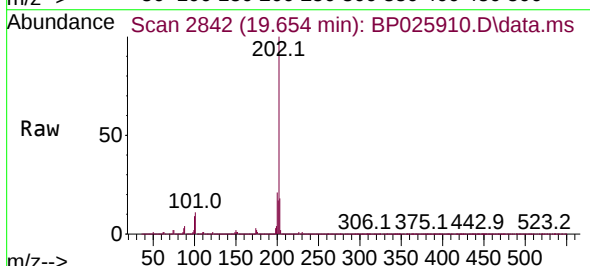
RT: 19.654 min Scan# 2842

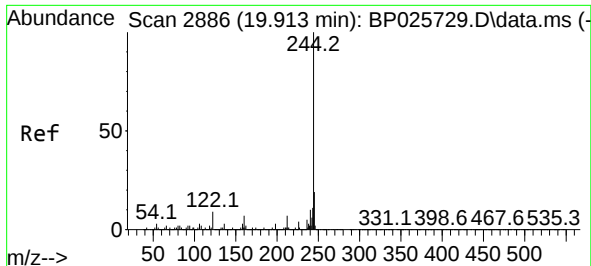
Delta R.T. -0.035 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

Tgt Ion:202 Resp: 6100653
 Ion Ratio Lower Upper
 202 100
 200 20.9 17.0 25.6
 203 17.9 13.9 20.9





#79
Terphenyl-d14
Concen: 7.463 ng
RT: 19.866 min Scan# 2886
Delta R.T. -0.047 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

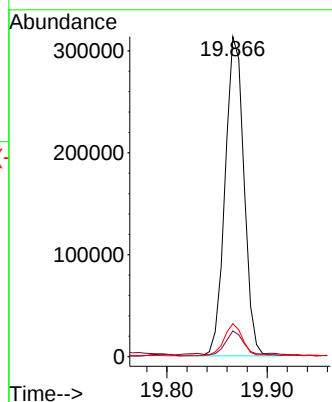
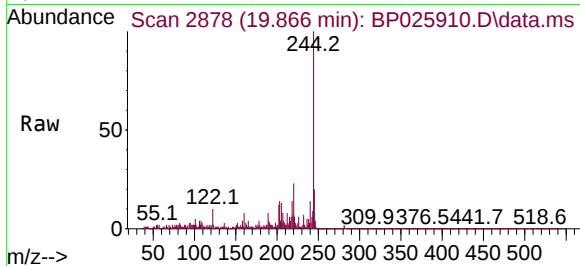
ClientSampleId :

SOIL-PILE-1-WC

Tgt Ion:244 Resp: 411119
Ion Ratio Lower Upper
244 100
212 8.0 5.9 8.9
122 10.3 7.1 10.7

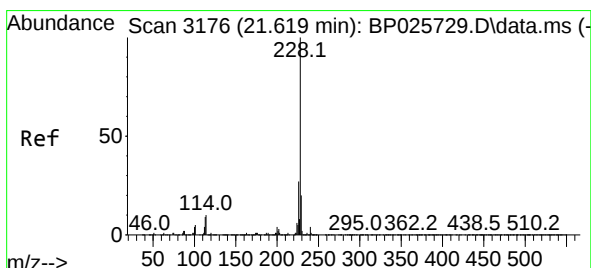
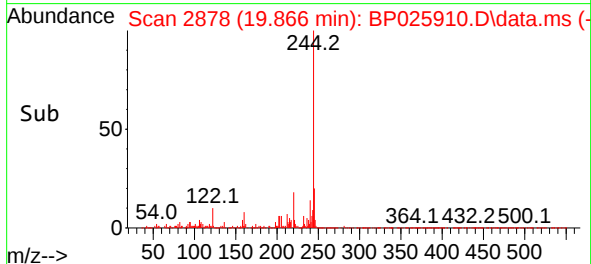
Manual Integrations
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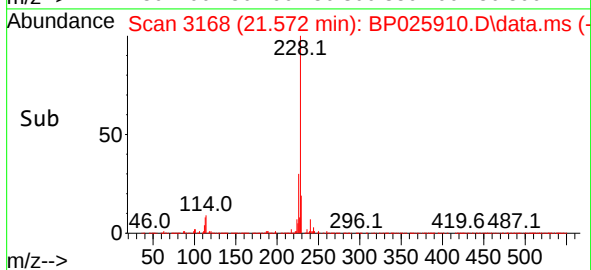
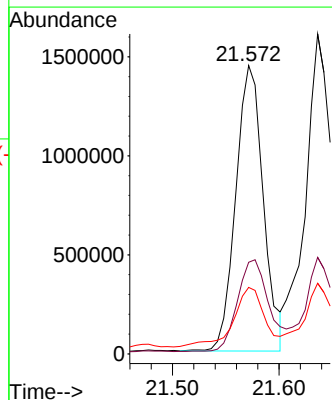
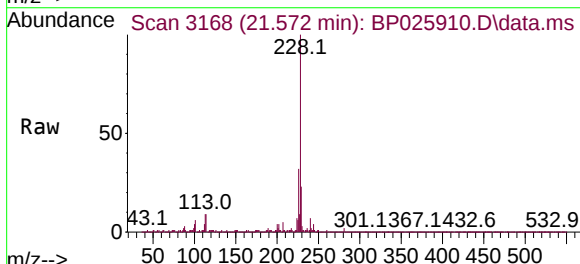
10/03/2025
Supervised By :Jagrut
Upadhyay

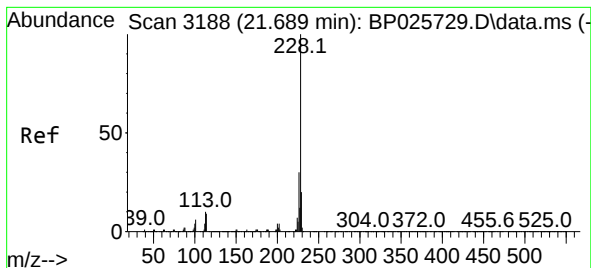
10/03/2025



#81
Benzo(a)anthracene
Concen: 38.149 ng
RT: 21.572 min Scan# 3168
Delta R.T. -0.047 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:228 Resp: 2588122
Ion Ratio Lower Upper
228 100
226 31.8 21.6 32.4
229 23.1 15.7 23.5





#83

Chrysene

Concen: 43.245 ng

RT: 21.636 min Scan# 31

Delta R.T. -0.053 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

ClientSampleId :

SOIL-PILE-1-WC

Tgt Ion:228 Resp: 2796739

Ion Ratio Lower Upper

228 100

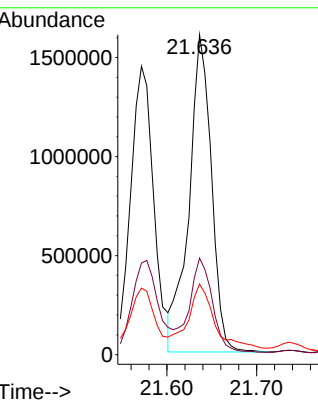
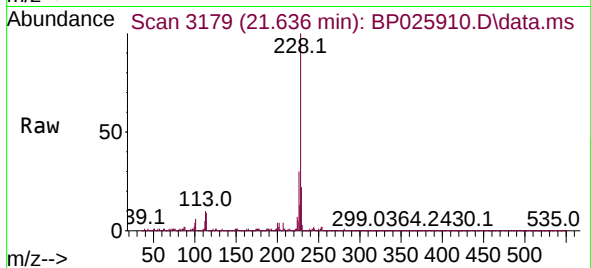
226 30.2 23.8 35.6

229 22.1 15.6 23.4

Manual Integrations

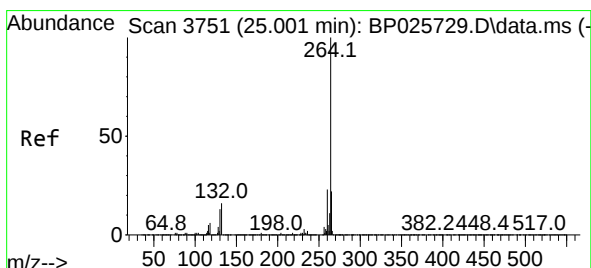
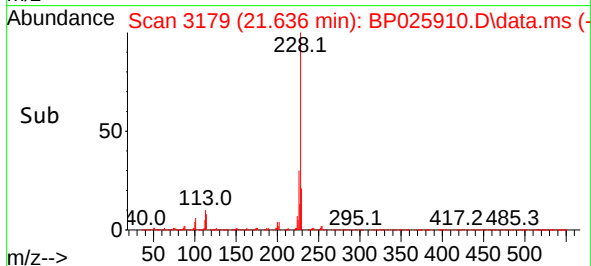
APPROVED

Reviewed By :Rahul
Chavli



10/03/2025
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Upadhyay

10/03/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.942 min Scan# 3741

Delta R.T. -0.059 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

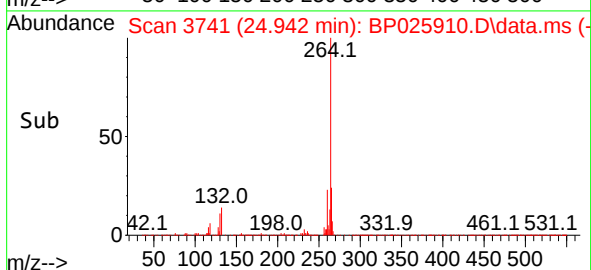
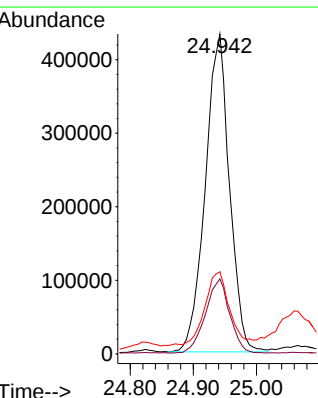
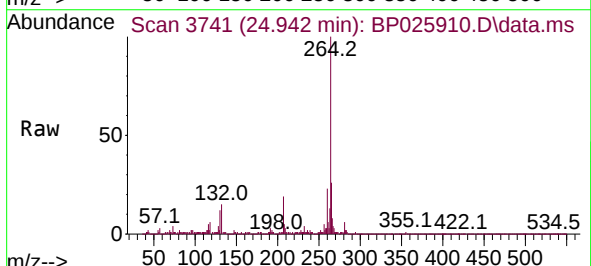
Tgt Ion:264 Resp: 1150278

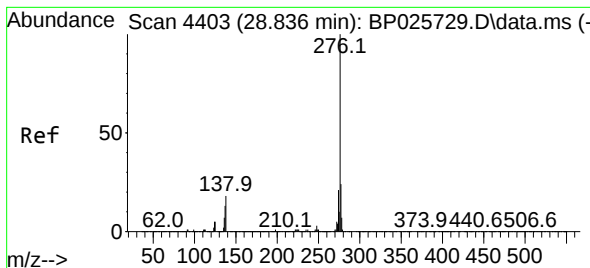
Ion Ratio Lower Upper

264 100

260 23.4 18.3 27.5

265 25.7 17.3 25.9





#87
Indeno(1,2,3-cd)pyrene
Concen: 13.003 ng
RT: 28.754 min Scan# 4389
Delta R.T. -0.082 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

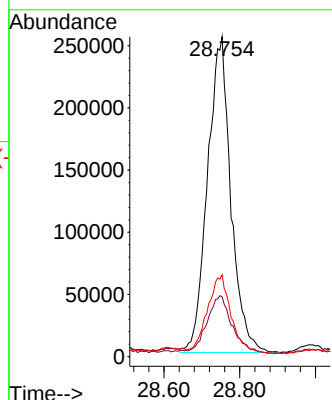
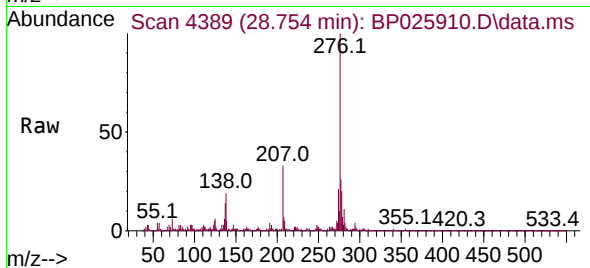
ClientSampleId :

SOIL-PILE-1-WC

Tgt Ion:276 Resp: 1087696
Ion Ratio Lower Upper
276 100
138 19.4 13.4 20.2
277 25.6 9.1 13.7

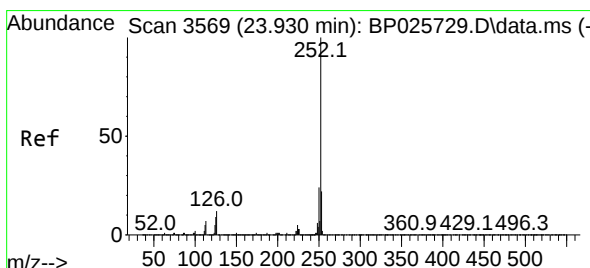
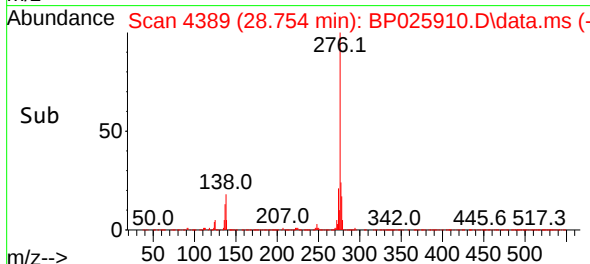
Manual Integrations
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Chavli



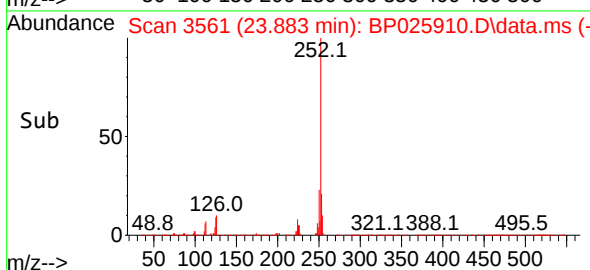
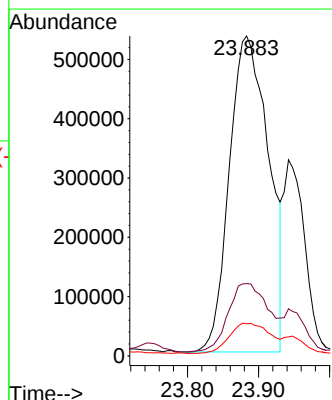
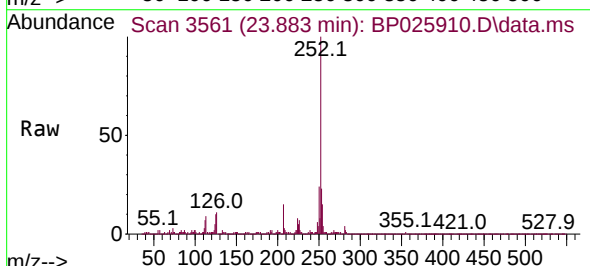
10/03/2025
Supervised By :Jagrut
Upadhyay

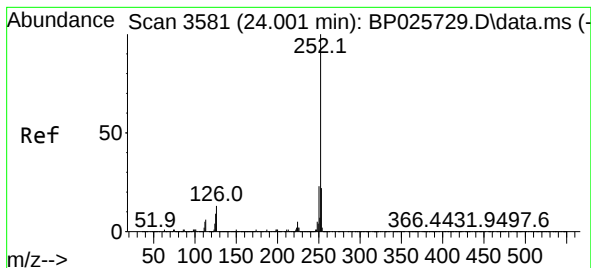
10/03/2025



#88
Benzo(b)fluoranthene
Concen: 29.194 ng
RT: 23.883 min Scan# 3561
Delta R.T. -0.047 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:252 Resp: 2053557
Ion Ratio Lower Upper
252 100
253 22.6 17.9 26.9
125 10.0 7.3 10.9





#89

Benzo(k)fluoranthene

Concen: 9.492 ng m

RT: 23.942 min Scan# 31

Delta R.T. -0.059 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

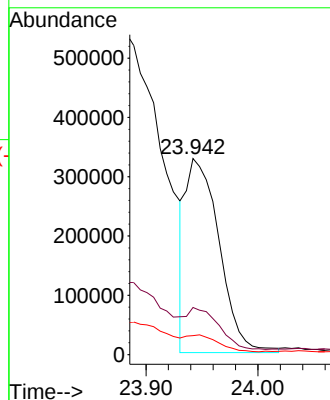
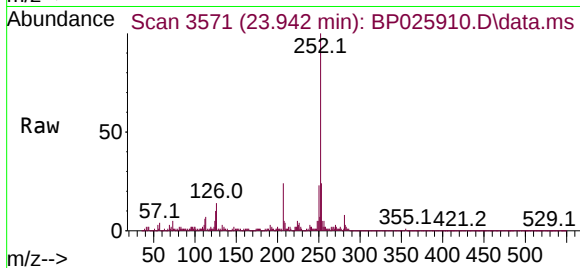
ClientSampleId :

SOIL-PILE-1-WC

Tgt Ion:	252	Resp:	68131
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.5	26.3
125	9.7	7.5	11.3

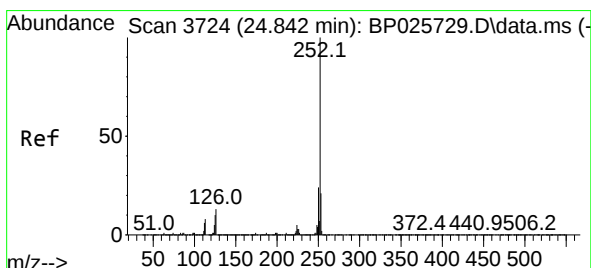
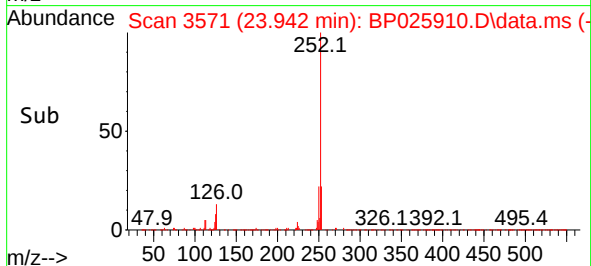
Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli



10/03/2025
Supervised By :Jagrut
Upadhyay

10/03/2025



#90

Benzo(a)pyrene

Concen: 27.272 ng

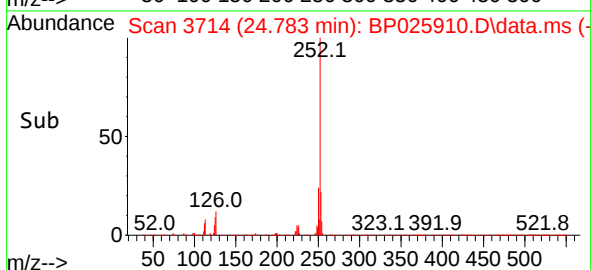
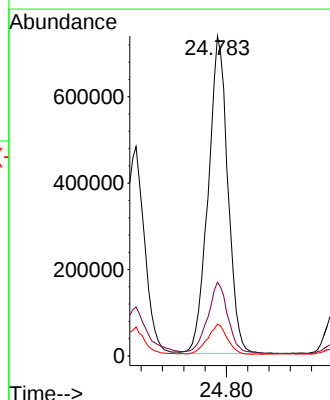
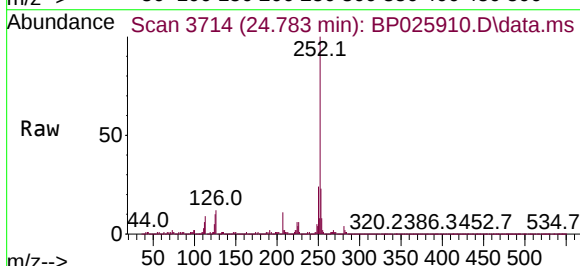
RT: 24.783 min Scan# 3714

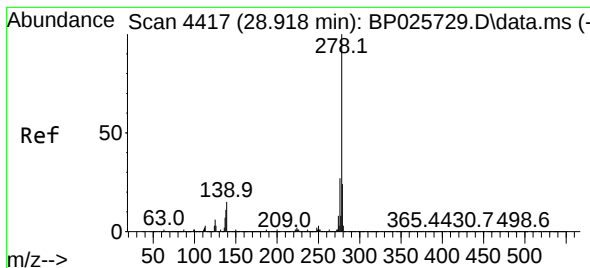
Delta R.T. -0.059 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

Tgt Ion:	252	Resp:	1878651
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.2	25.8
125	9.9	8.3	12.5





#91

Dibenzo(a,h)anthracene

Concen: 5.419 ng m

RT: 28.783 min Scan# 4394

Delta R.T. -0.135 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

ClientSampleId :

SOIL-PILE-1-WC

Tgt Ion:278 Resp: 370968

Ion Ratio Lower Upper

278 100

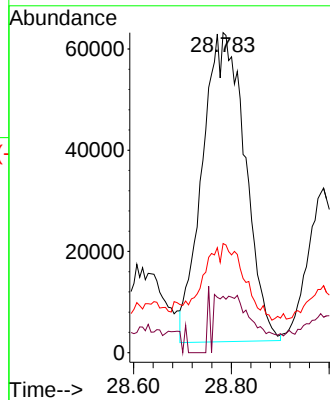
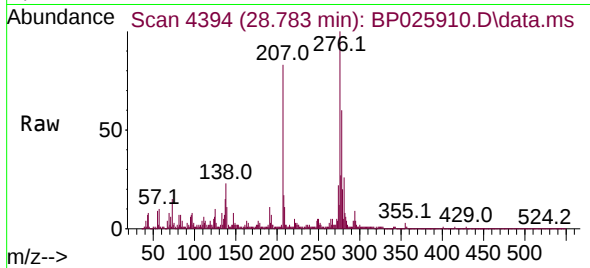
139 17.6 12.1 18.1

279 34.1 19.6 29.4

Manual Integrations

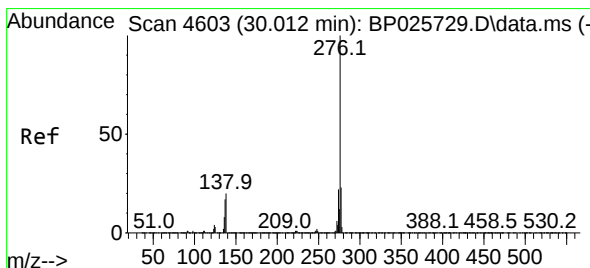
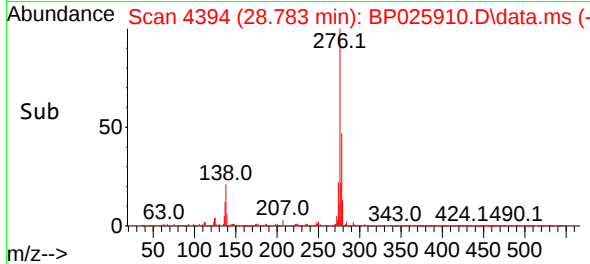
APPROVED

Reviewed By :Rahul
Chavli



10/03/2025
Supervised By :Jagrut
Upadhyay

10/03/2025



#92

Benzo(g,h,i)perylene

Concen: 18.233 ng

RT: 29.918 min Scan# 4587

Delta R.T. -0.094 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

Tgt Ion:276 Resp: 1227458

Ion Ratio Lower Upper

276 100

277 24.7 18.7 28.1

138 19.6 16.0 24.0

