

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101525\
 Data File : BF143964.D
 Acq On : 15 Oct 2025 20:52
 Operator : RC/JU
 Sample : Q3345-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TANK-FARM-SOIL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/16/2025
 Supervised By :Jagrut Upadhyay 10/16/2025

Quant Time: Oct 16 11:11:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 15:29:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	128491	20.00	ng	0.00
21) Naphthalene-d8	8.163	136	502865	20.00	ng	0.00
39) Acenaphthene-d10	9.922	164	274402	20.00	ng	0.00
64) Phenanthrene-d10	11.410	188	427833	20.00	ng	0.00
76) Chrysene-d12	14.063	240	243395	20.00	ng	0.00
86) Perylene-d12	15.551	264	312832	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	702547	86.83	ng	0.00
7) Phenol-d6	6.504	99	854445	88.59	ng	-0.01
23) Nitrobenzene-d5	7.440	82	528370	63.84	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	218397	79.91	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	907130	52.46	ng	-0.01
79) Terphenyl-d14	12.998	244	688194	48.32	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	9.951	154	42211	3.03	ng	99
58) Fluorene	10.469	166	50282	3.38	ng	99
71) Phenanthrene	11.439	178	828598	39.95	ng	99
72) Anthracene	11.486	178	211162	10.08	ng	99
73) Carbazole	11.639	167	76161	4.10	ng	99
75) Fluoranthene	12.633	202	1164388	54.35	ng	99
78) Pyrene	12.863	202	1095529	53.99	ng	98
81) Benzo(a)anthracene	14.051	228	635496	39.90	ng	97
83) Chrysene	14.086	228	565559	38.36	ng	97
87) Indeno(1,2,3-cd)pyrene	17.045	276	281057	14.66	ng	98
88) Benzo(b)fluoranthene	15.116	252	659061m	36.68	ng	
89) Benzo(k)fluoranthene	15.127	252	319048m	19.19	ng	
90) Benzo(a)pyrene	15.486	252	542803	34.84	ng	97
91) Dibenzo(a,h)anthracene	17.057	278	79579	5.16	ng	94
92) Benzo(g,h,i)perylene	17.498	276	253848	16.47	ng	97

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

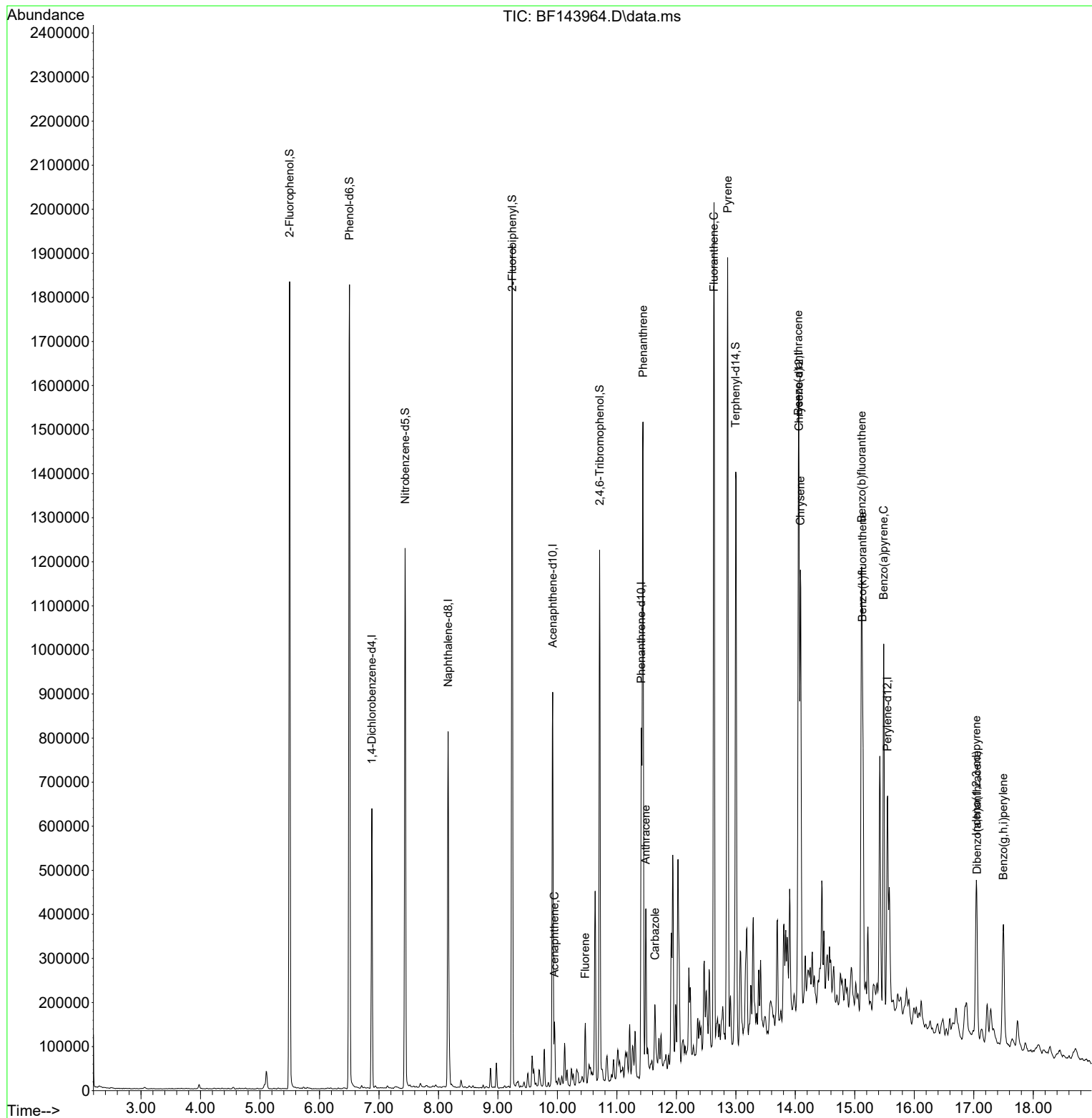
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101525\
Data File : BF143964.D
Acq On : 15 Oct 2025 20:52
Operator : RC/JU
Sample : Q3345-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

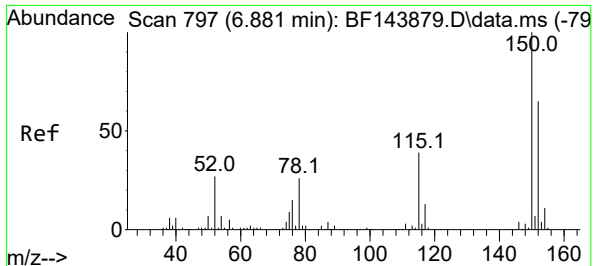
Instrument :
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Quant Time: Oct 16 11:11:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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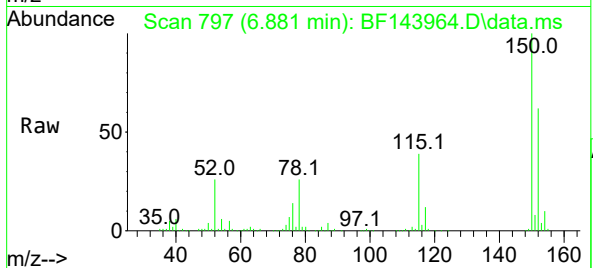
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.005 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

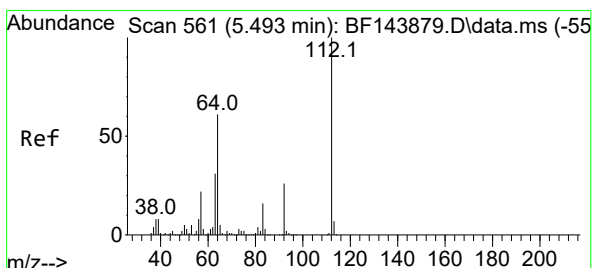
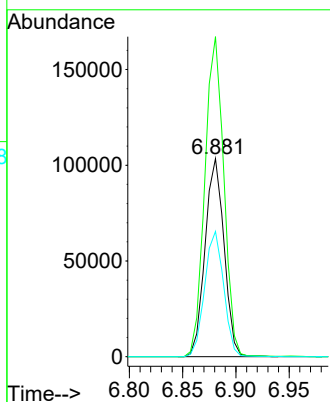
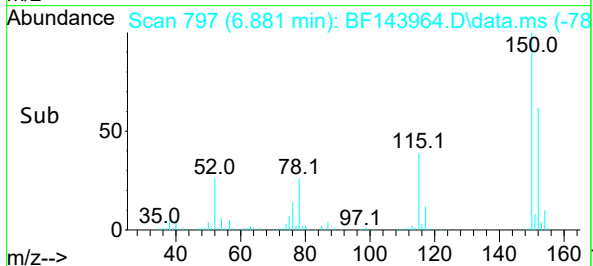
Instrument :
BNA_F
ClientSampleId :
TANK-FARM-SOIL



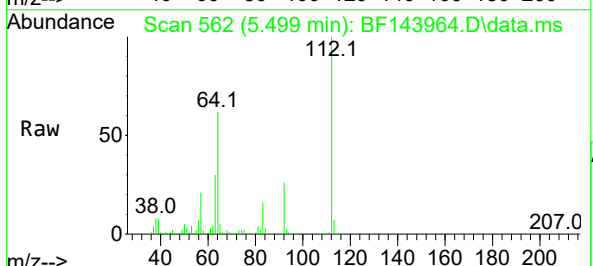
Tgt Ion:152 Resp: 12849
Ion Ratio Lower Upper
152 100
150 161.6 124.4 186.6
115 63.2 48.1 72.1

Manual Integrations
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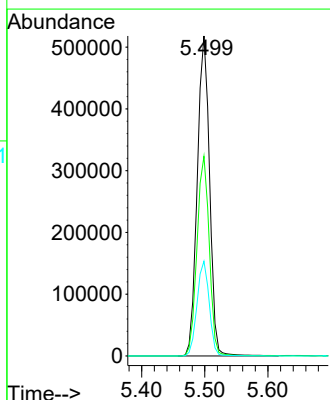
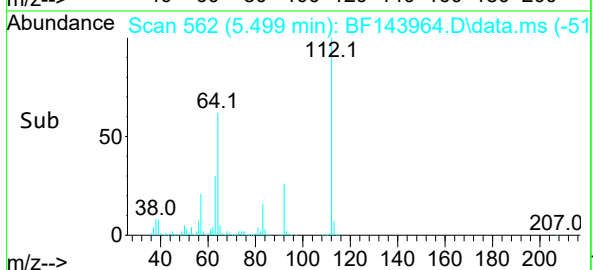
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

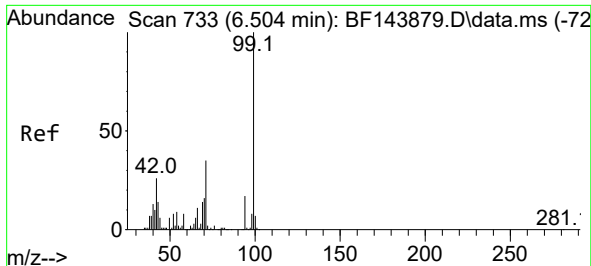


#5
2-Fluorophenol
Concen: 86.83 ng
RT: 5.499 min Scan# 562
Delta R.T. 0.000 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52



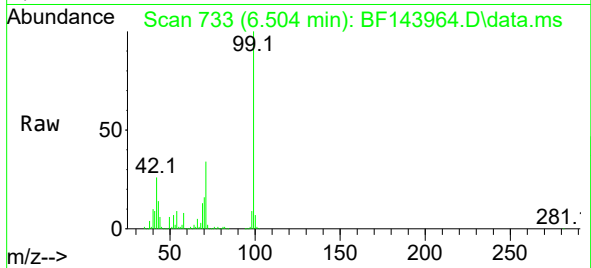
Tgt Ion:112 Resp: 702547
Ion Ratio Lower Upper
112 100
64 62.4 49.1 73.7
63 29.6 24.5 36.7





#7
Phenol-d6
Concen: 88.59 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

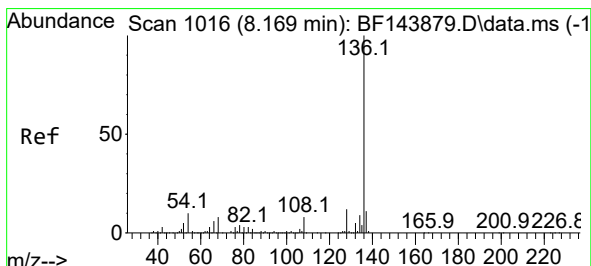
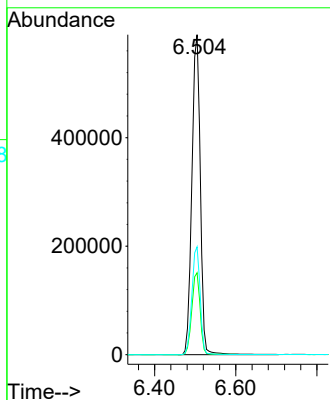
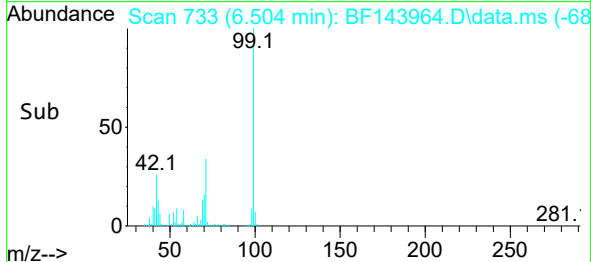
Instrument :
BNA_F
ClientSampleId :
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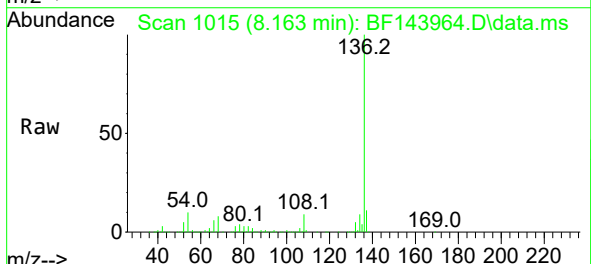
Tgt Ion: 99 Resp: 85444
Ion Ratio Lower Upper
99 100
42 25.6 21.0 31.4
71 33.7 27.8 41.8

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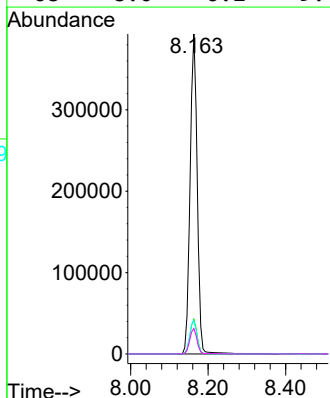
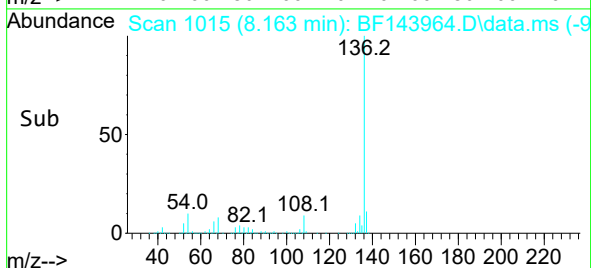
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

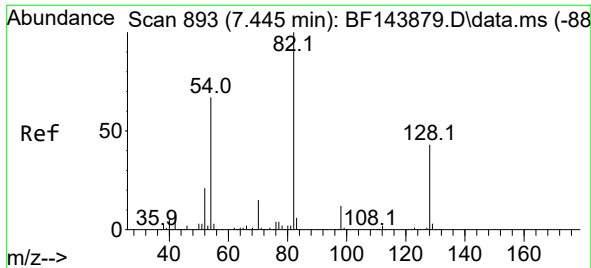


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52



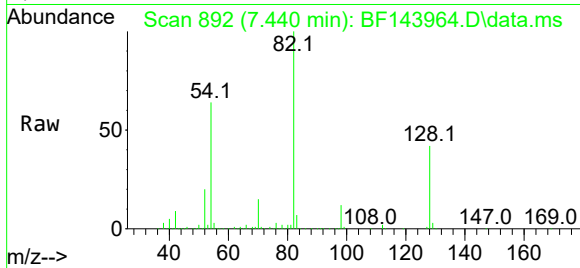
Tgt Ion:136 Resp: 502865
Ion Ratio Lower Upper
136 100
137 10.8 8.5 12.7
54 10.4 8.2 12.4
68 8.0 6.2 9.4





#23
Nitrobenzene-d5
Concen: 63.84 ng
RT: 7.440 min Scan# 893
Delta R.T. -0.017 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

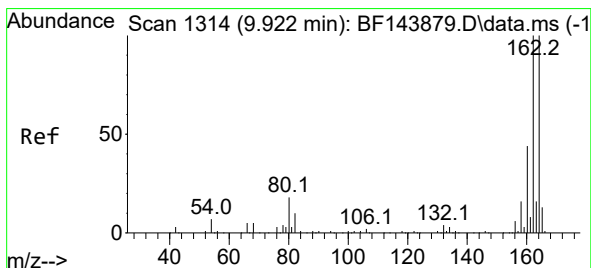
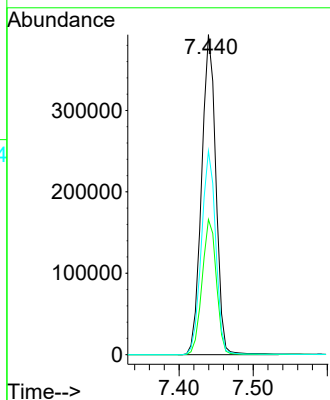
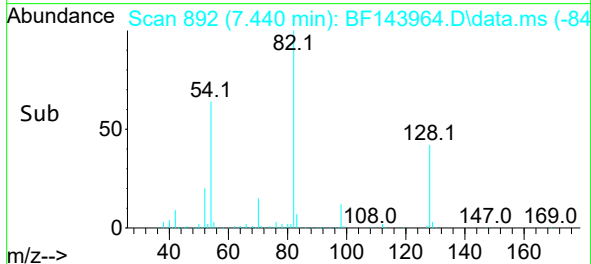
Instrument :
BNA_F
ClientSampleId :
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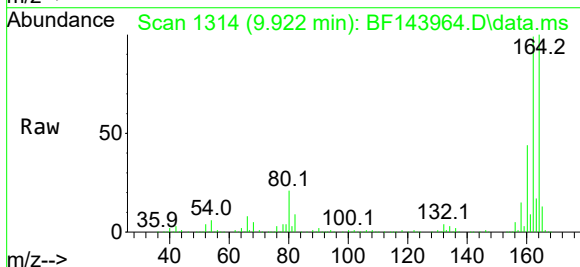
Tgt Ion: 82 Resp: 528370
Ion Ratio Lower Upper
82 100
128 42.2 34.0 51.0
54 63.7 53.2 79.8

Manual Integrations
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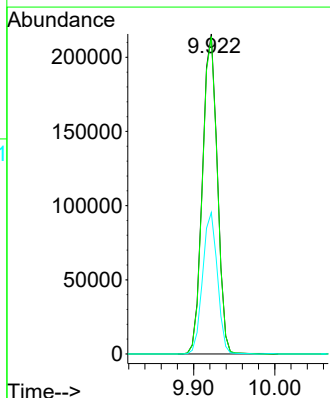
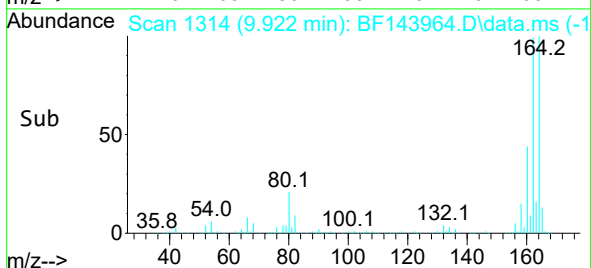
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

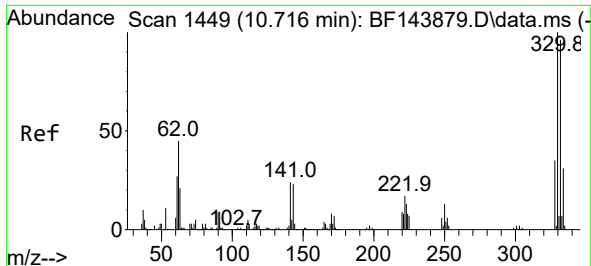


#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52



Tgt Ion:164 Resp: 274402
Ion Ratio Lower Upper
164 100
162 99.1 80.2 120.2
160 44.2 35.4 53.0





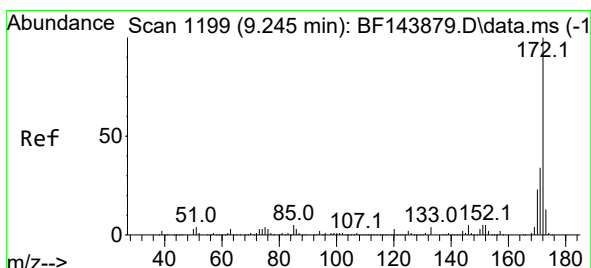
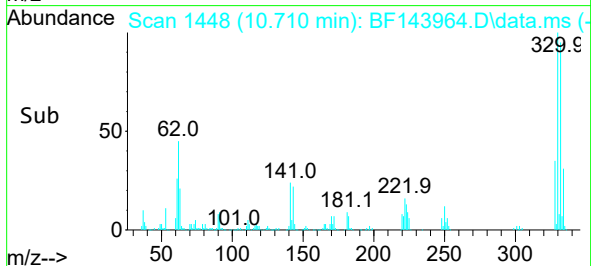
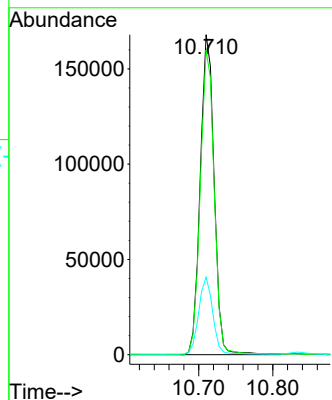
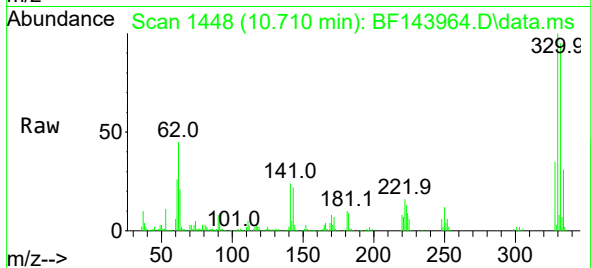
#42
2,4,6-Tribromophenol
Concen: 79.91 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

Instrument :
BNA_F
ClientSampleId :
TANK-FARM-SOIL

Tgt Ion: 330 Resp: 21839
Ion Ratio Lower Upper
330 100
332 95.5 76.9 115.3
141 24.2 20.2 30.4

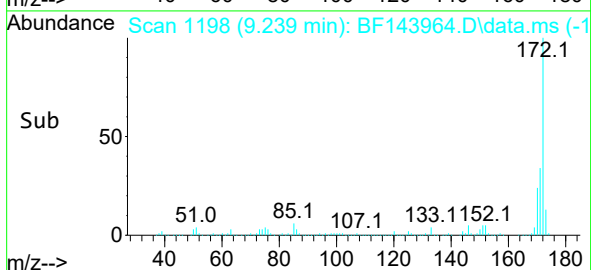
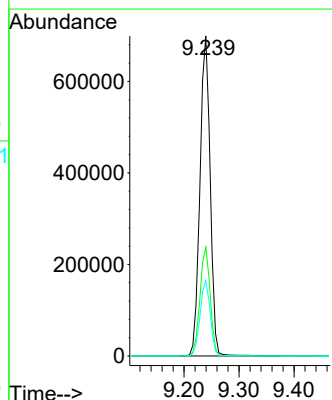
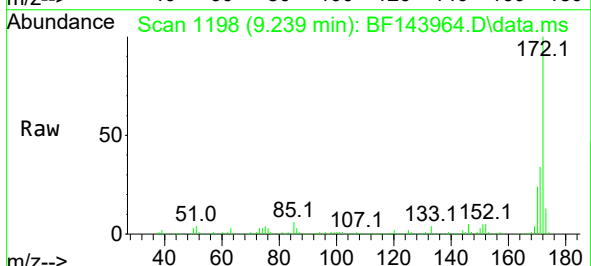
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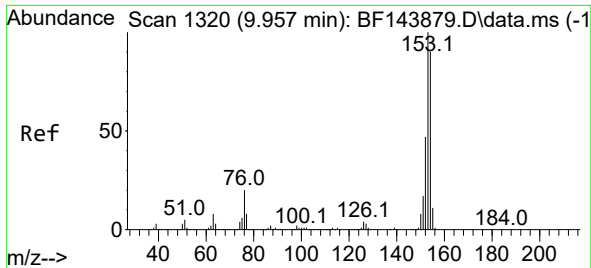
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025



#45
2-Fluorobiphenyl
Concen: 52.46 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

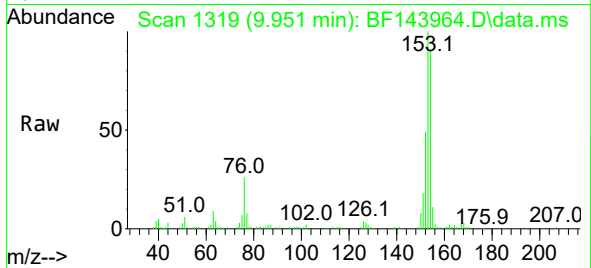
Tgt Ion: 172 Resp: 907130
Ion Ratio Lower Upper
172 100
171 33.9 27.4 41.0
170 23.5 18.6 28.0





#52
Acenaphthene
Concen: 3.03 ng
RT: 9.951 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

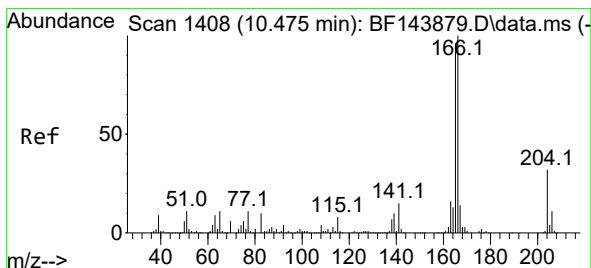
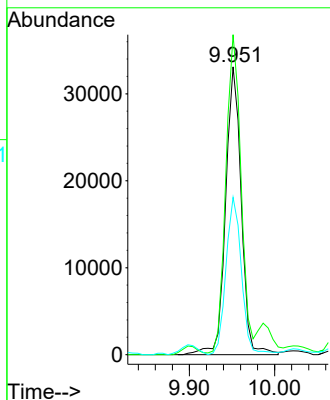
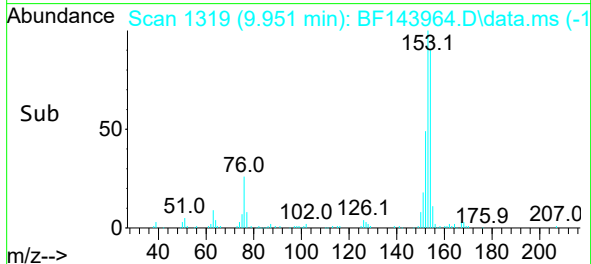
Instrument :
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TANK-FARM-SOIL



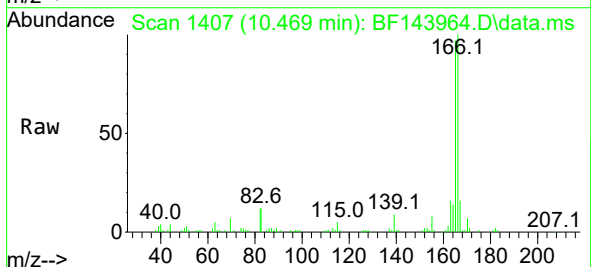
Tgt Ion:154 Resp: 4221
Ion Ratio Lower Upper
154 100
153 111.2 89.3 133.9
152 54.6 42.2 63.2

Manual Integrations
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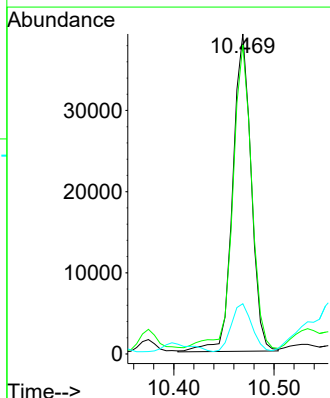
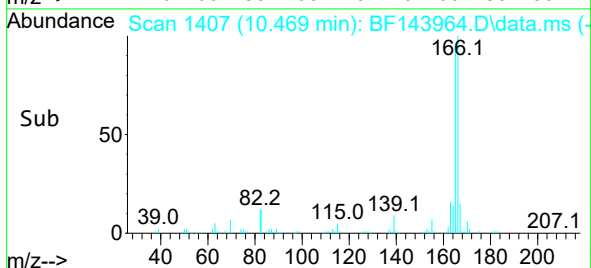
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

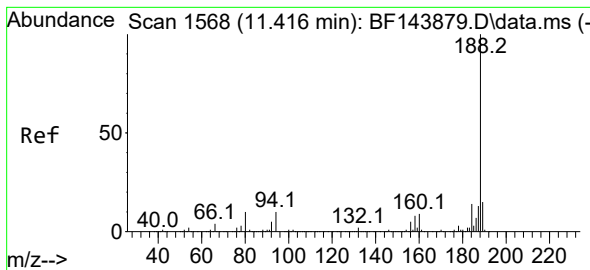


#58
Fluorene
Concen: 3.38 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52



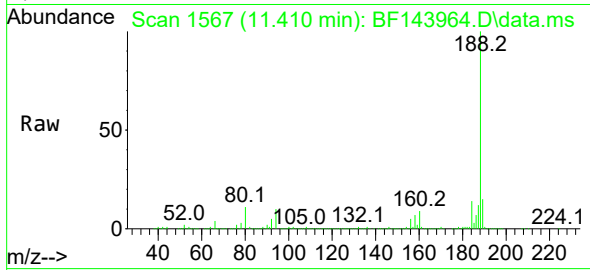
Tgt Ion:166 Resp: 50282
Ion Ratio Lower Upper
166 100
165 96.6 77.0 115.6
167 15.7 11.1 16.7





#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.410 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

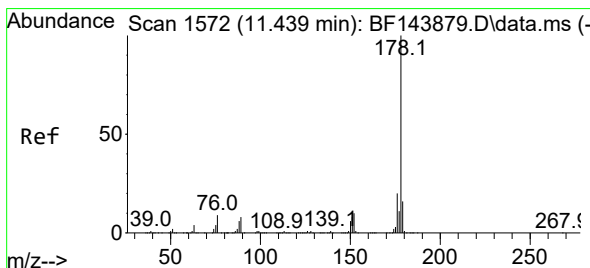
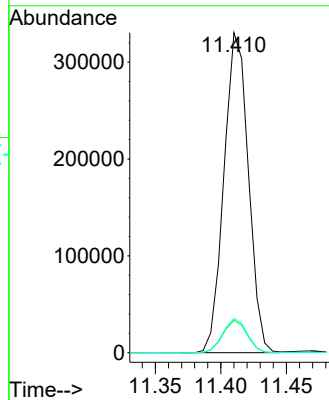
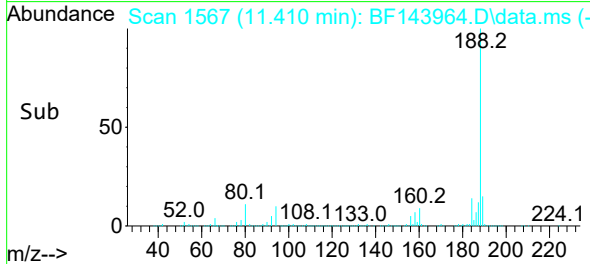
Instrument :
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TANK-FARM-SOIL



Tgt Ion:188 Resp: 42783
Ion Ratio Lower Upper
188 100
94 10.1 7.8 11.6
80 10.7 7.9 11.9

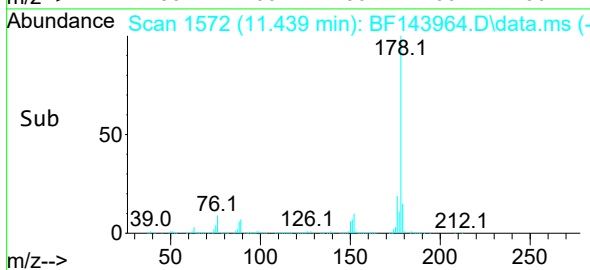
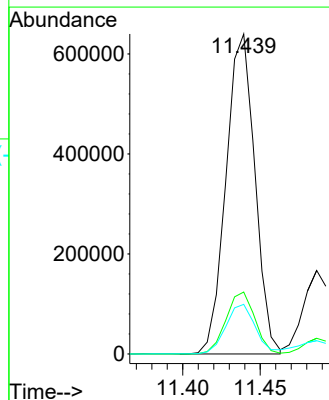
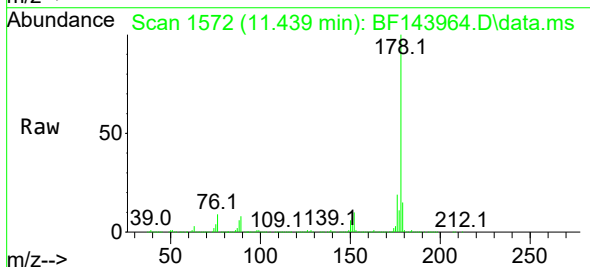
Manual Integrations
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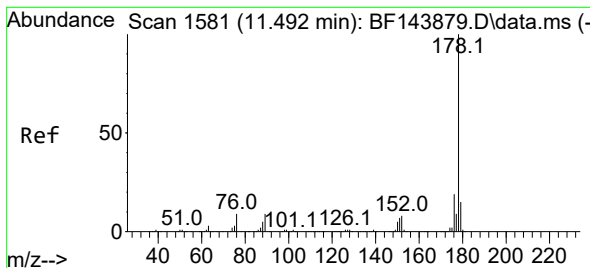
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025



#71
Phenanthrene
Concen: 39.95 ng
RT: 11.439 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

Tgt Ion:178 Resp: 828598
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 15.5 12.4 18.6





#72

Anthracene

Concen: 10.08 ng

RT: 11.486 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF143964.D

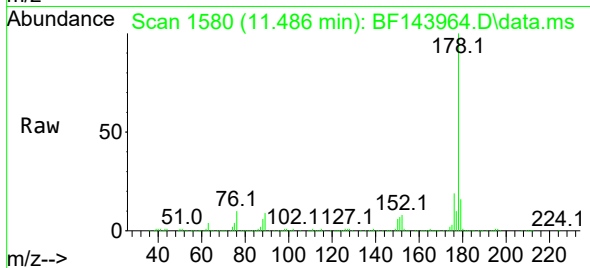
Acq: 15 Oct 2025 20:52

Instrument :

BNA_F

ClientSampleId :

TANK-FARM-SOIL



Tgt Ion:178 Resp: 211162

Ion Ratio Lower Upper

178 100

176 18.8 14.9 22.3

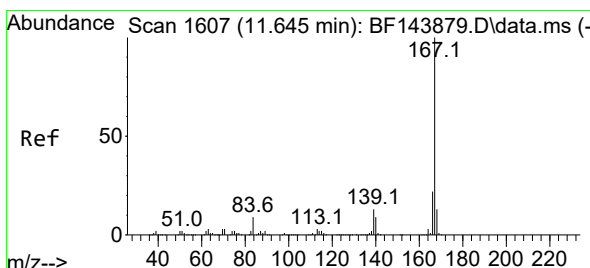
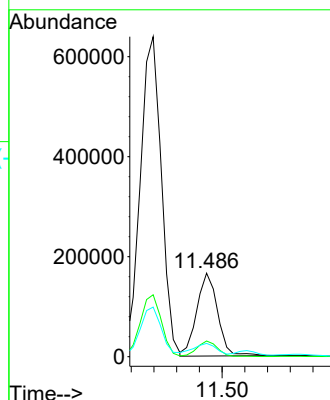
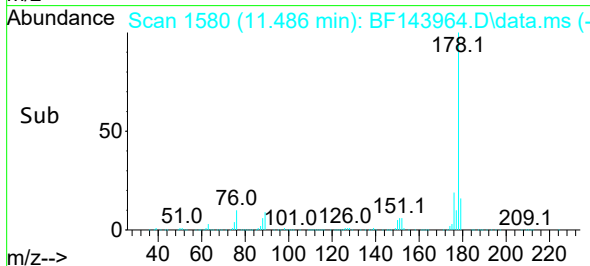
179 15.9 12.2 18.2

Manual Integrations

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Reviewed By :Rahul Chavli 10/16/2025

Supervised By :Jagrut Upadhyay 10/16/2025



#73

Carbazole

Concen: 4.10 ng

RT: 11.639 min Scan# 1606

Delta R.T. -0.012 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

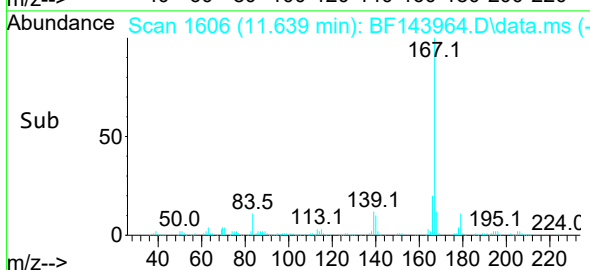
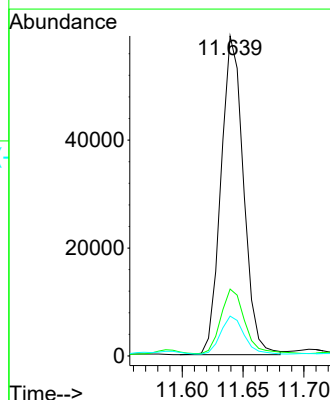
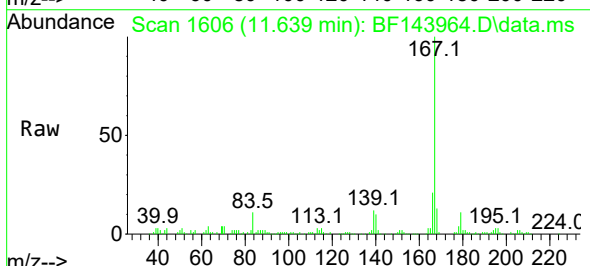
Tgt Ion:167 Resp: 76161

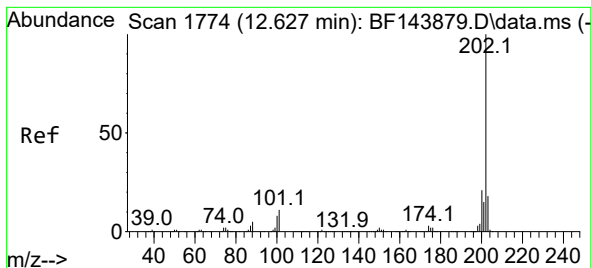
Ion Ratio Lower Upper

167 100

166 20.9 17.2 25.8

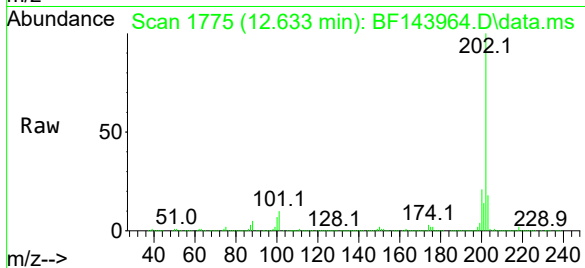
139 12.5 10.1 15.1





#75
Fluoranthene
Concen: 54.35 ng
RT: 12.633 min Scan# 1775
Delta R.T. 0.000 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

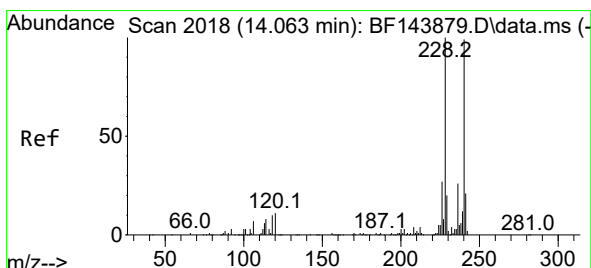
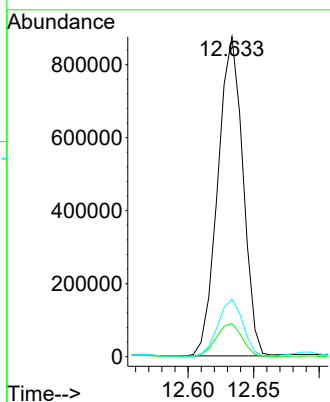
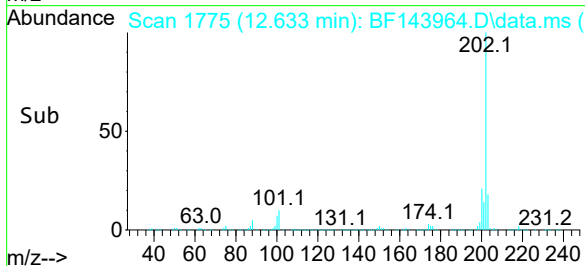
Instrument :
BNA_F
ClientSampleId :
TANK-FARM-SOIL



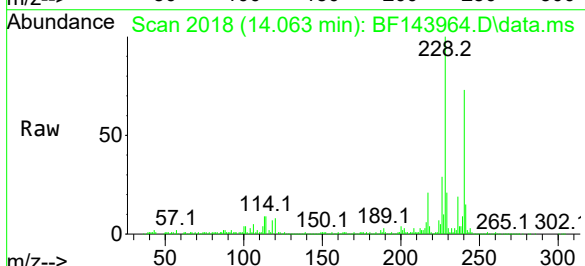
Tgt Ion:202 Resp: 1164388
Ion Ratio Lower Upper
202 100
101 10.3 0.0 30.7
203 18.0 0.0 37.8

Manual Integrations
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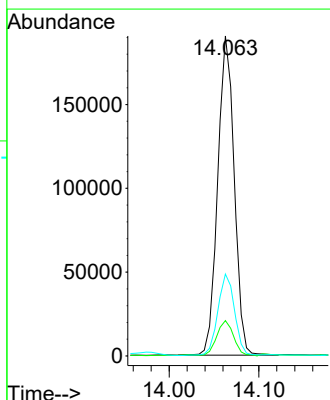
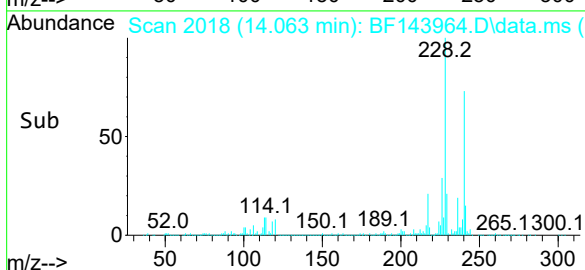
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

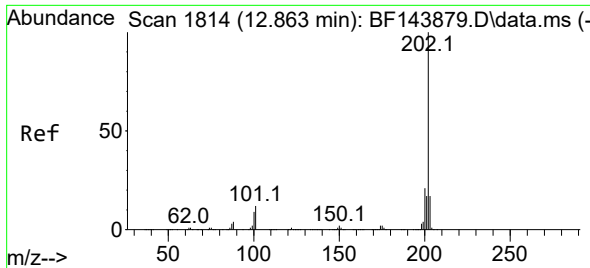


#76
Chrysene-d12
Concen: 20.00 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52



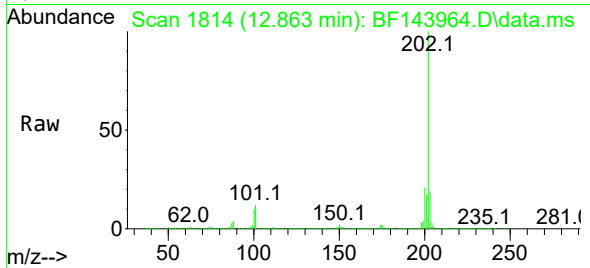
Tgt Ion:240 Resp: 243395
Ion Ratio Lower Upper
240 100
120 11.1 8.6 13.0
236 25.6 21.1 31.7





#78
Pyrene
Concen: 53.99 ng
RT: 12.863 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

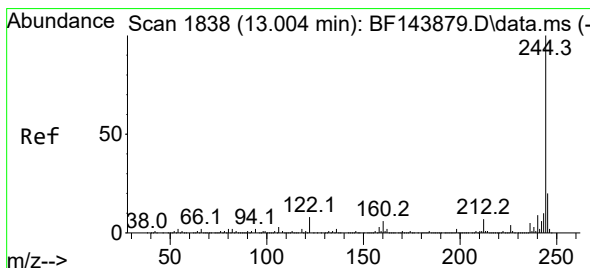
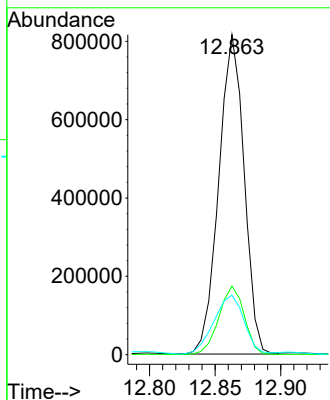
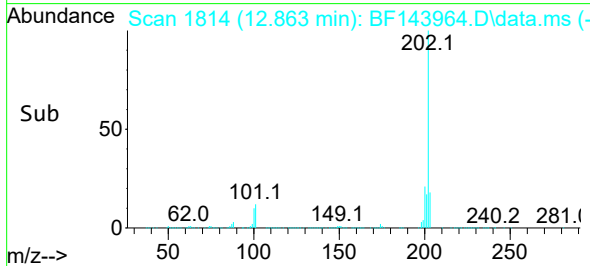
Instrument :
BNA_F
ClientSampleId :
TANK-FARM-SOIL



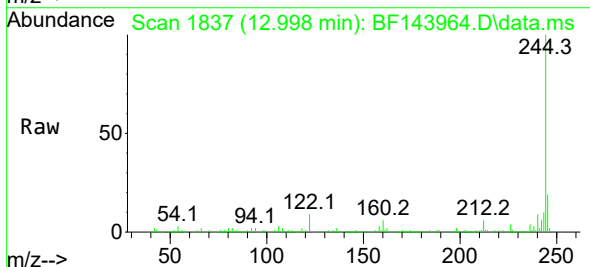
Tgt Ion:202 Resp: 1095529
Ion Ratio Lower Upper
202 100
200 21.4 17.0 25.6
203 18.6 13.8 20.6

Manual Integrations
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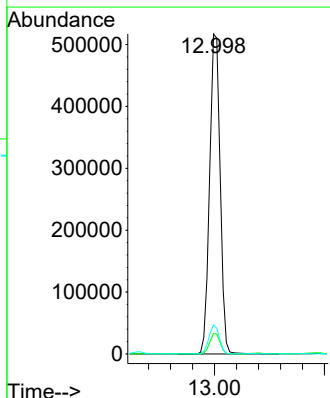
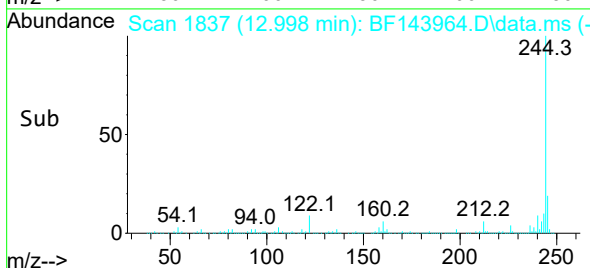
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

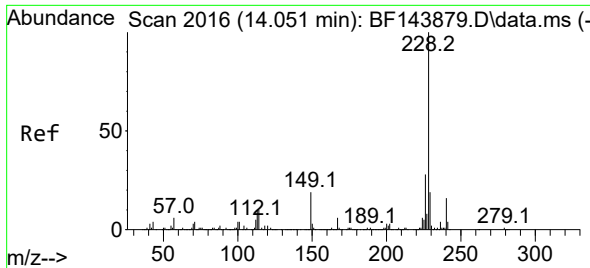


#79
Terphenyl-d14
Concen: 48.32 ng
RT: 12.998 min Scan# 1837
Delta R.T. -0.012 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52



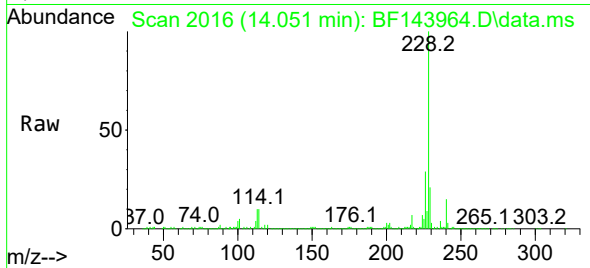
Tgt Ion:244 Resp: 688194
Ion Ratio Lower Upper
244 100
212 6.4 5.4 8.0
122 9.1 6.4 9.6





#81
Benzo(a)anthracene
Concen: 39.90 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

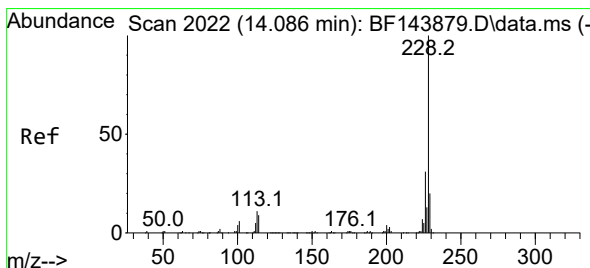
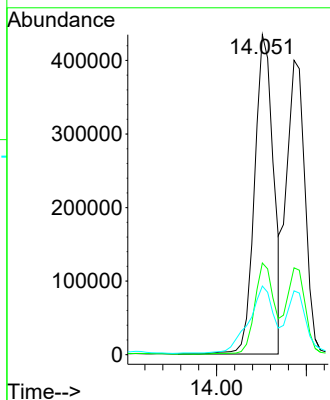
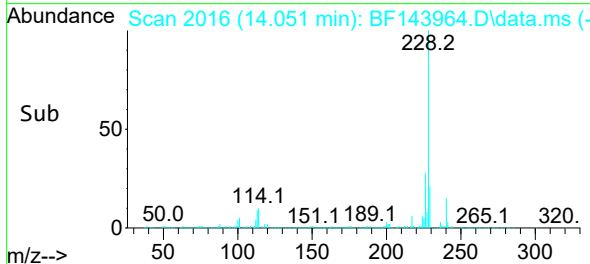
Instrument :
BNA_F
ClientSampleId :
TANK-FARM-SOIL



Tgt Ion:228 Resp: 635490
Ion Ratio Lower Upper
228 100
226 28.6 22.2 33.2
229 21.4 15.6 23.4

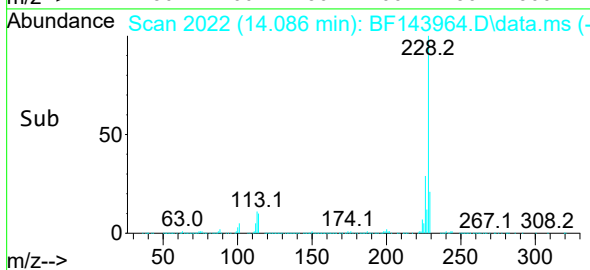
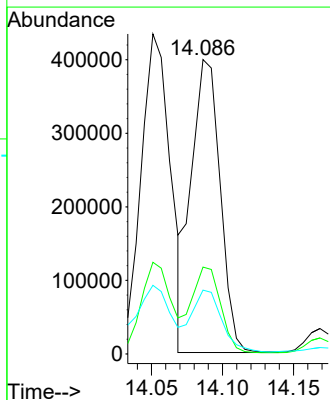
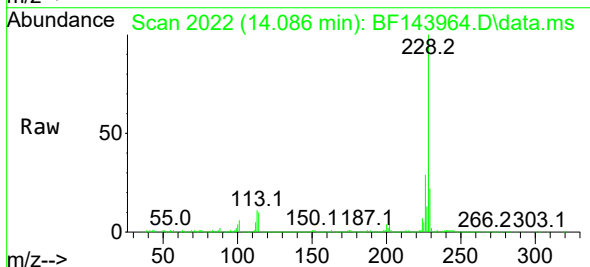
Manual Integrations
APPROVED

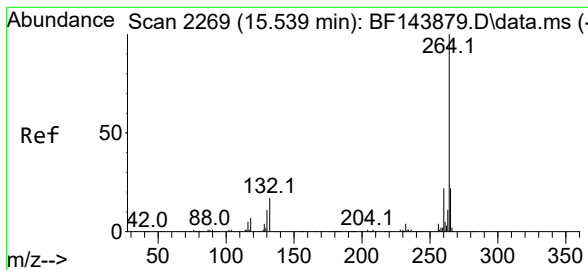
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025



#83
Chrysene
Concen: 38.36 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

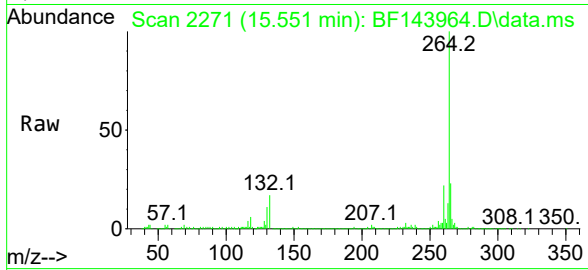
Tgt Ion:228 Resp: 565559
Ion Ratio Lower Upper
228 100
226 29.5 24.4 36.6
229 21.7 15.9 23.9





#86
Perylene-d12
Concen: 20.00 ng
RT: 15.551 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

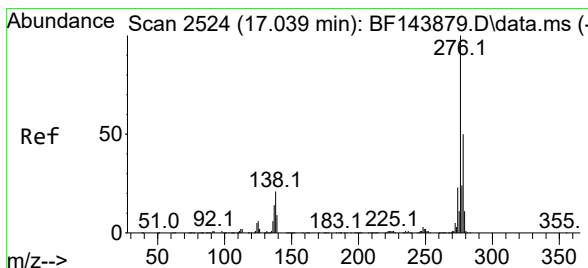
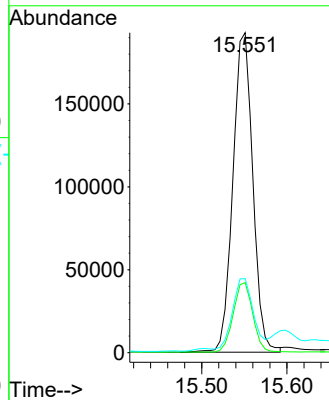
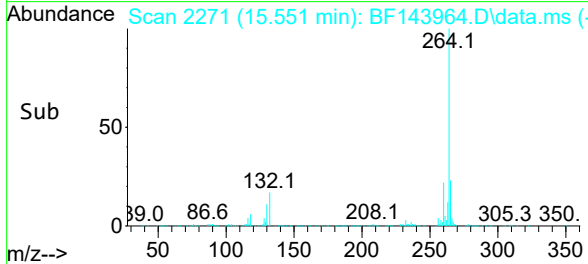
Instrument :
BNA_F
ClientSampleId :
TANK-FARM-SOIL



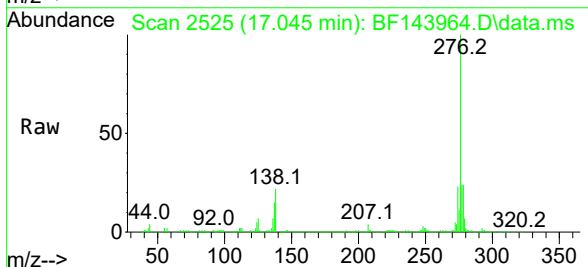
Tgt Ion:264 Resp: 31283
Ion Ratio Lower Upper
264 100
260 21.9 17.8 26.8
265 23.2 17.5 26.3

Manual Integrations
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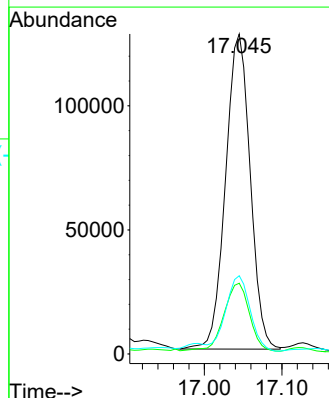
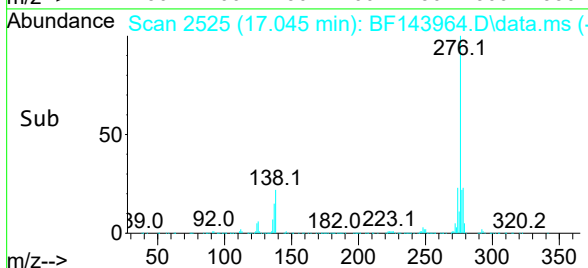
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

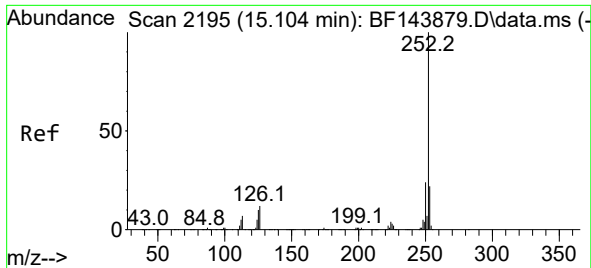


#87
Indeno(1,2,3-cd)pyrene
Concen: 14.66 ng
RT: 17.045 min Scan# 2525
Delta R.T. -0.012 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52



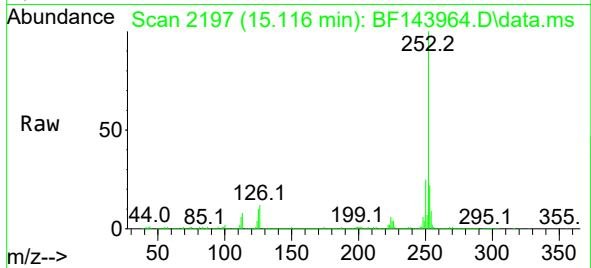
Tgt Ion:276 Resp: 281057
Ion Ratio Lower Upper
276 100
138 23.6 18.2 27.2
277 23.6 19.8 29.6





#88
Benzo(b)fluoranthene
Concen: 36.68 ng m
RT: 15.116 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

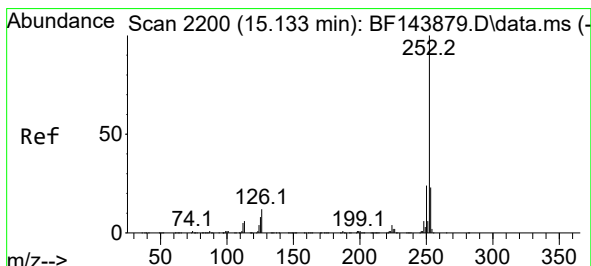
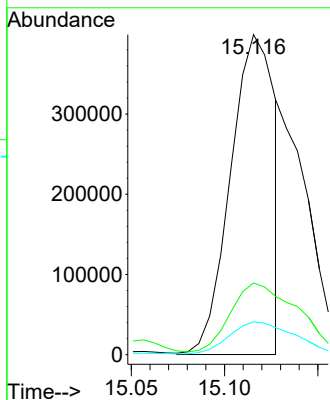
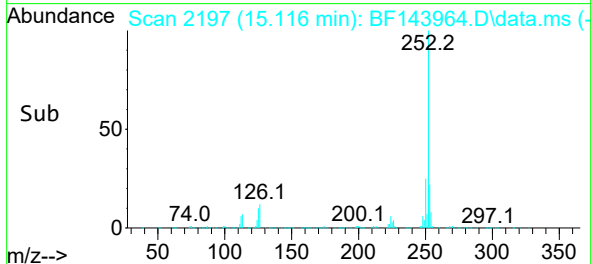
Instrument :
BNA_F
ClientSampleId :
TANK-FARM-SOIL



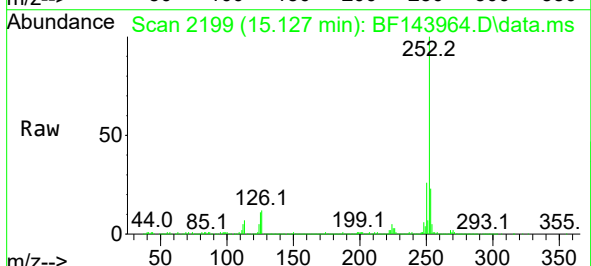
Tgt Ion:252 Resp: 65906
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.2
125 10.2 7.8 11.6

Manual Integrations
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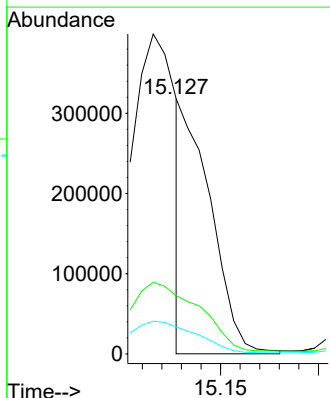
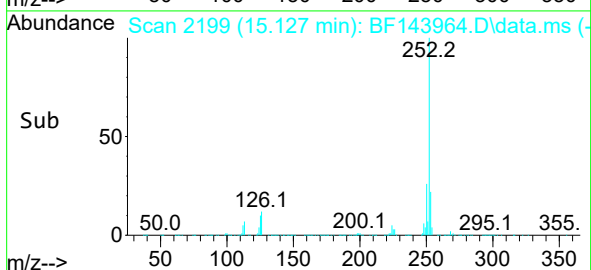
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025

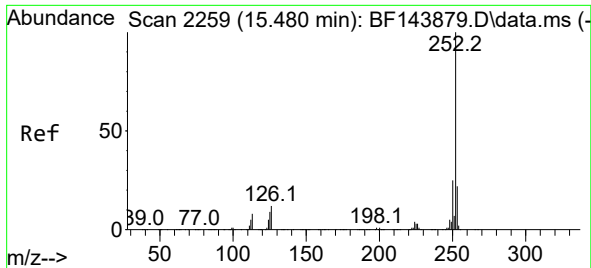


#89
Benzo(k)fluoranthene
Concen: 19.19 ng m
RT: 15.127 min Scan# 2199
Delta R.T. -0.017 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52



Tgt Ion:252 Resp: 319048
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.8
125 10.6 7.4 11.2





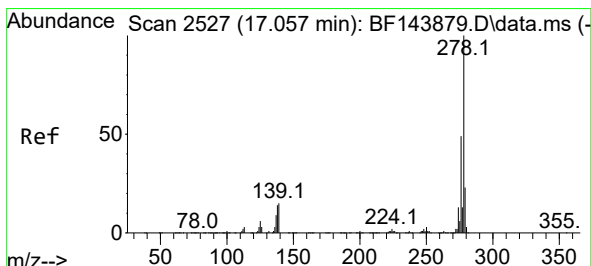
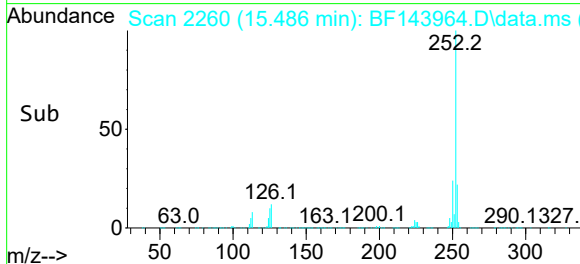
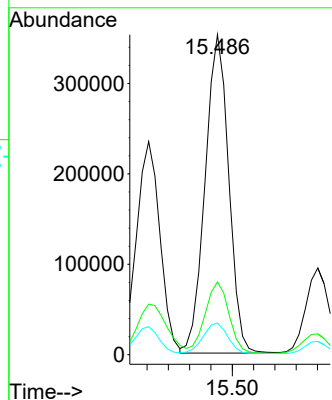
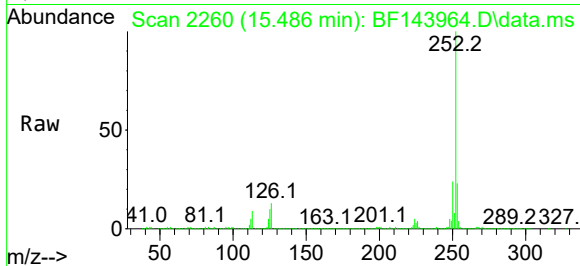
#90
Benzo(a)pyrene
Concen: 34.84 ng
RT: 15.486 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

Instrument :
BNA_F
ClientSampleId :
TANK-FARM-SOIL

Tgt Ion:252 Resp: 54280
Ion Ratio Lower Upper
252 100
253 22.8 17.3 25.9
125 9.9 7.0 10.4

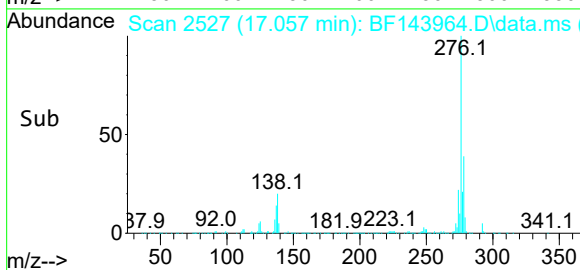
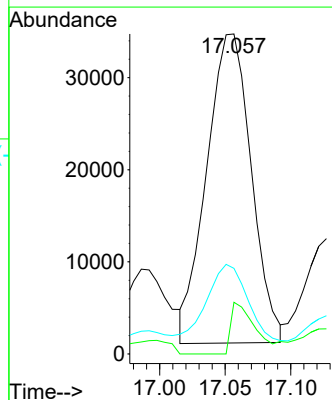
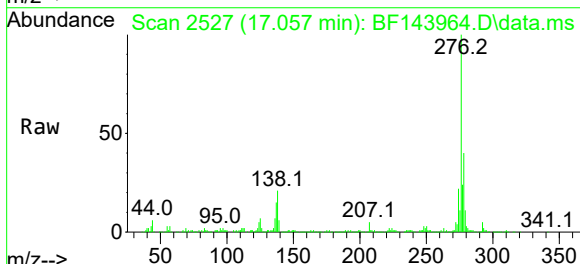
Manual Integrations
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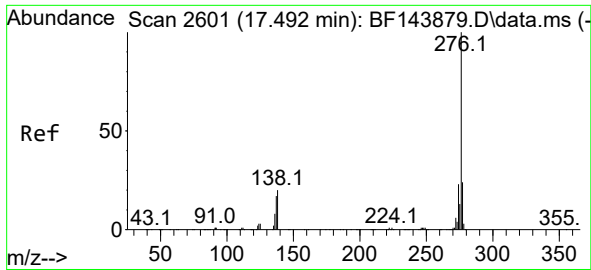
Reviewed By :Rahul Chavli 10/16/2025
Supervised By :Jagrut Upadhyay 10/16/2025



#91
Dibenzo(a,h)anthracene
Concen: 5.16 ng
RT: 17.057 min Scan# 2527
Delta R.T. -0.023 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

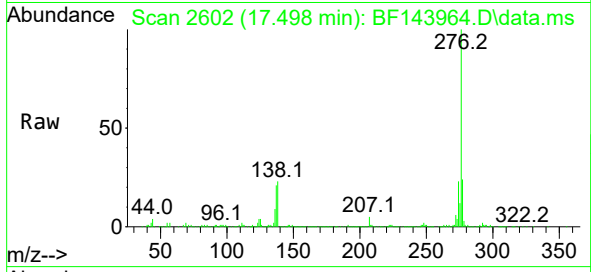
Tgt Ion:278 Resp: 79579
Ion Ratio Lower Upper
278 100
139 16.1 11.7 17.5
279 26.7 18.4 27.6





#92
 Benzo(g,h,i)perylene
 Concen: 16.47 ng
 RT: 17.498 min Scan# 20
 Delta R.T. -0.017 min
 Lab File: BF143964.D
 Acq: 15 Oct 2025 20:52

Instrument :
 BNA_F
 ClientSampleId :
 TANK-FARM-SOIL



Tgt Ion:276 Resp: 253848
 Ion Ratio Lower Upper
 276 100
 277 23.9 19.0 28.6
 138 23.2 16.1 24.1

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/16/2025
 Supervised By :Jagrut Upadhyay 10/16/2025

