

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037014.D
 Acq On : 14 May 2025 15:48
 Operator : RC/JU
 Sample : Q1872-13DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-PAH-SOILD

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/15/2025
 Supervised By :Jagrut Upadhyay 05/15/2025

Quant Time: May 14 16:13:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2217	0.40	ng	0.00
7) Naphthalene-d8	10.394	136	6524	0.40	ng	#-0.01
13) Acenaphthene-d10	14.267	164	3844	0.40	ng	0.00
19) Phenanthrene-d10	17.009	188	7555	0.40	ng	0.00
29) Chrysene-d12	21.206	240	6828	0.40	ng	0.00
35) Perylene-d12	23.415	264	6318	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	152	0.03	ng	0.00
5) Phenol-d6	6.788	99	202	0.03	ng	0.00
8) Nitrobenzene-d5	8.771	82	167	0.02	ng	0.00
11) 2-Methylnaphthalene-d10	11.991	152	274	0.03	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	43	0.03	ng	-0.01
15) 2-Fluorobiphenyl	12.883	172	446	0.03	ng	0.00
27) Fluoranthene-d10	19.049	212	647	0.03	ng	0.00
31) Terphenyl-d14	19.653	244	493	0.03	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.447	128	5349	0.28	ng	99
12) 2-Methylnaphthalene	12.067	142	7989	0.64	ng	97
16) Acenaphthylene	13.978	152	25111	1.34	ng	100
17) Acenaphthene	14.320	154	11699	0.96	ng	98
18) Fluorene	15.314	166	8614	0.54	ng	100
25) Phenanthrene	17.046	178	6724	0.27	ng	99
26) Anthracene	17.145	178	5812	0.26	ng	100
28) Fluoranthene	19.077	202	12683	0.43	ng	99
30) Pyrene	19.444	202	21776	0.75	ng	100
32) Benzo(a)anthracene	21.197	228	3185	0.12	ng	95
33) Chrysene	21.242	228	20196	0.74	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	933	0.06	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.628	276	9550	0.37	ng	# 91
37) Benzo(b)fluoranthene	22.754	252	13577	0.52	ng	98
38) Benzo(k)fluoranthene	22.798	252	13383m	0.52	ng	
39) Benzo(a)pyrene	23.319	252	13061	0.59	ng	# 92
40) Dibenzo(a,h)anthracene	25.640	278	13232	0.66	ng	95
41) Benzo(g,h,i)perylene	26.301	276	4514	0.21	ng	96

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

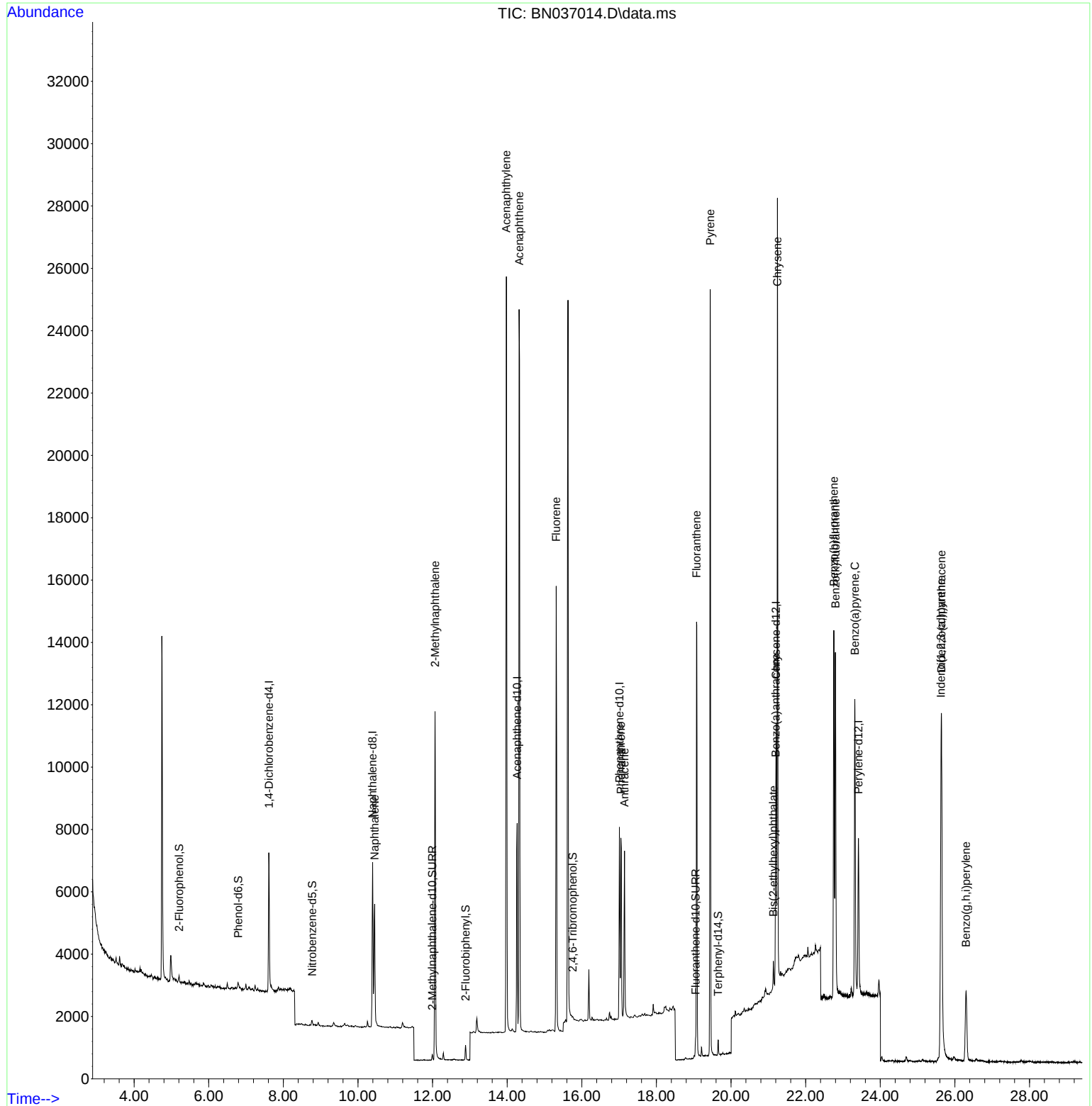
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037014.D
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ALS Vial : 7 Sample Multiplier: 1

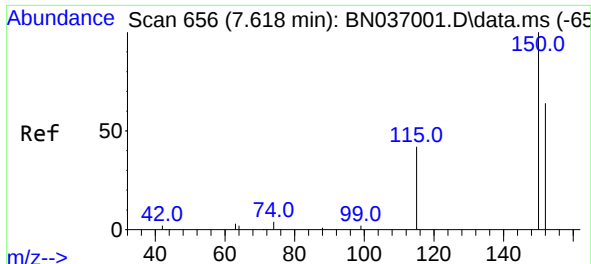
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Quant Time: May 14 16:13:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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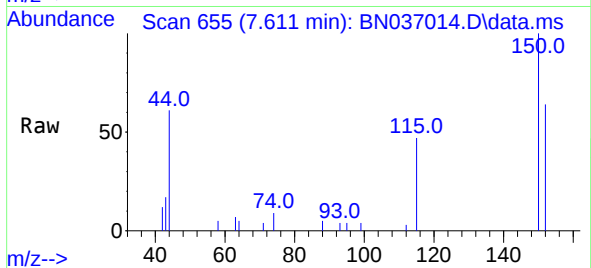
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.40 ng
RT: 7.611 min Scan# 611
Delta R.T. -0.007 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

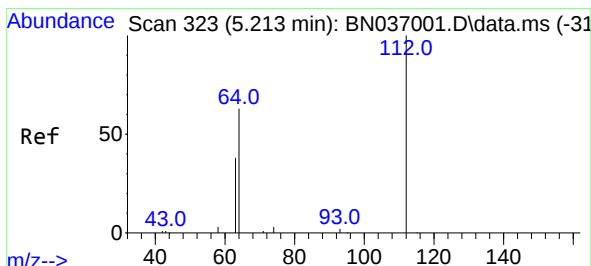
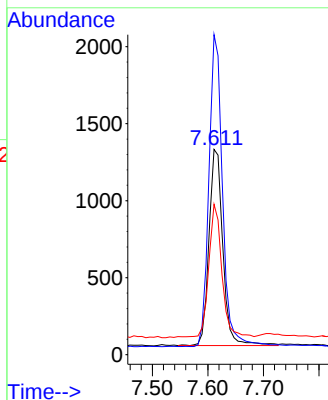
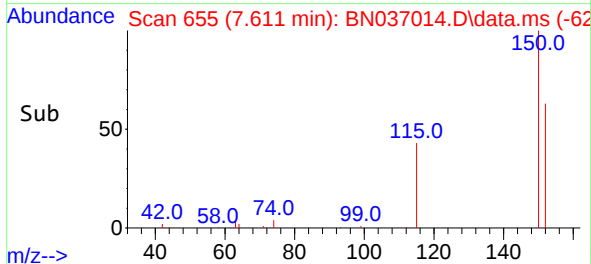
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



Tgt Ion:152 Resp: 221
Ion Ratio Lower Upper
152 100
150 155.9 123.9 185.9
115 73.3 55.8 83.8

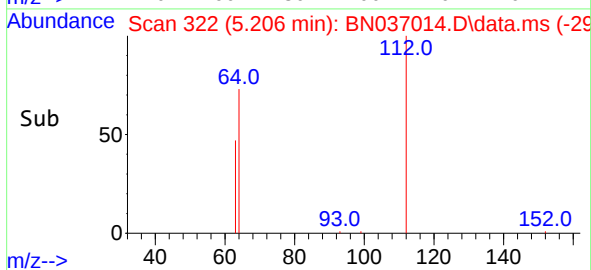
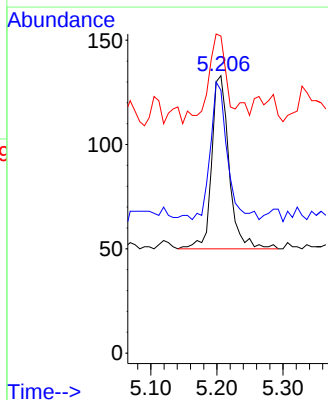
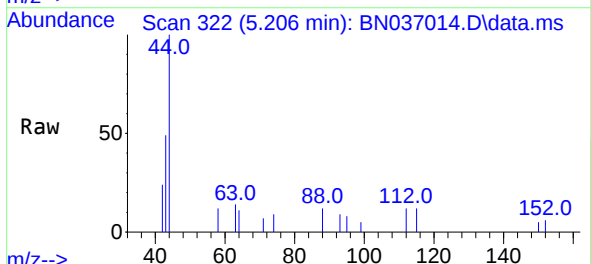
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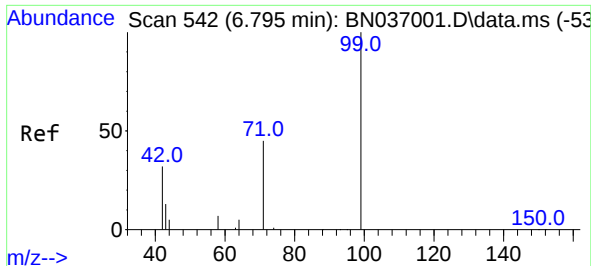
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#4
2-Fluorophenol
Concen: 0.03 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

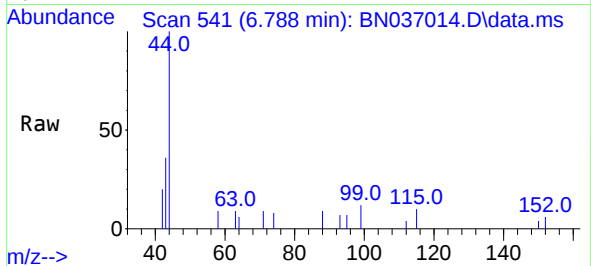
Tgt Ion:112 Resp: 152
Ion Ratio Lower Upper
112 100
64 76.3 55.7 83.5
63 53.9 34.6 51.8#





#5
Phenol-d6
Concen: 0.03 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

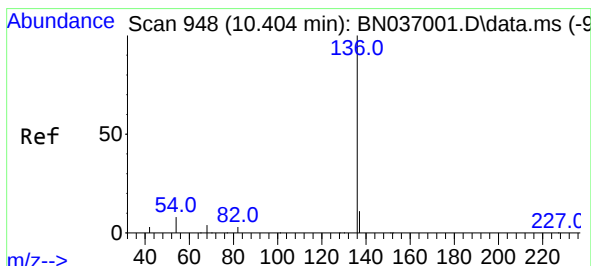
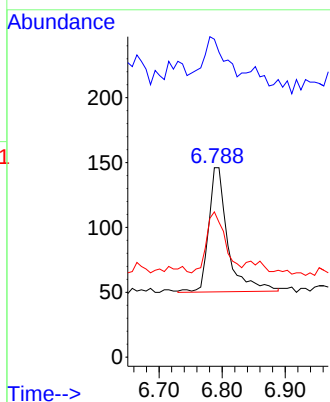
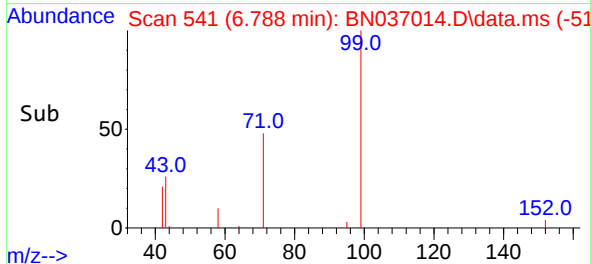
Instrument :
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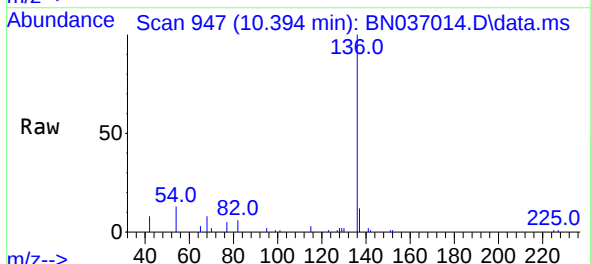
Tgt Ion: 99 Resp: 202
Ion Ratio Lower Upper
99 100
42 38.6 29.3 43.9
71 47.5 35.7 53.5

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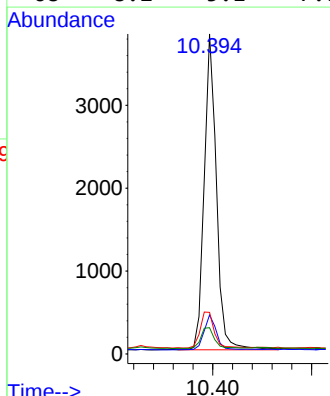
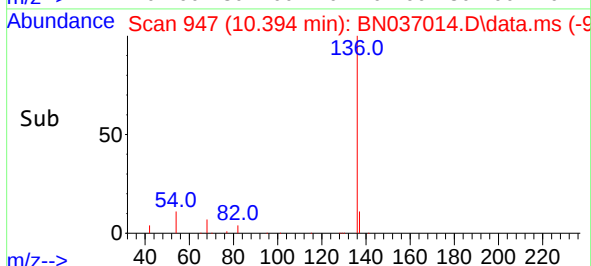
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

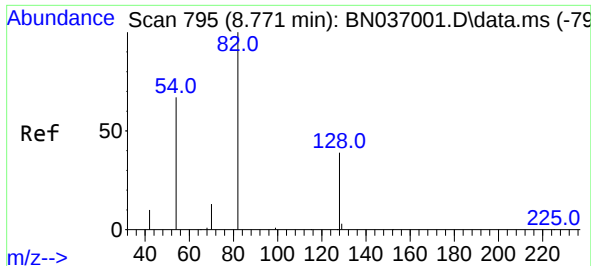


#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



Tgt Ion:136 Resp: 6524
Ion Ratio Lower Upper
136 100
137 12.2 10.4 15.6
54 13.0 8.5 12.7#
68 8.2 5.1 7.7#





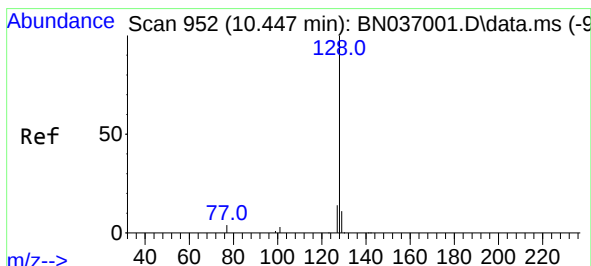
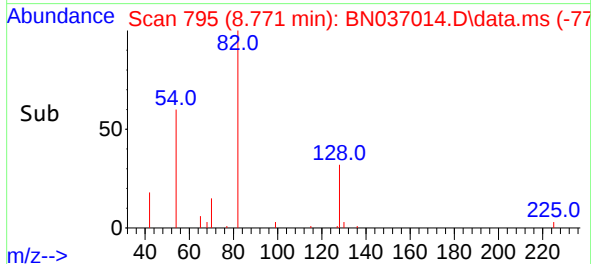
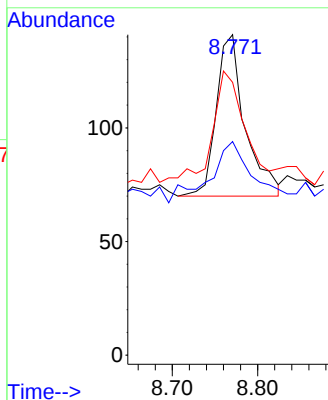
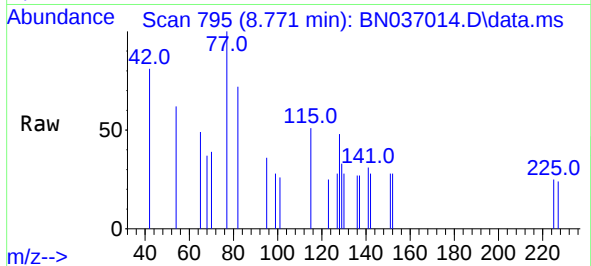
#8
Nitrobenzene-d5
Concen: 0.02 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

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Tgt Ion: 82 Resp: 165
Ion Ratio Lower Upper
82 100
128 66.7 34.0 51.0
54 85.1 55.0 82.4

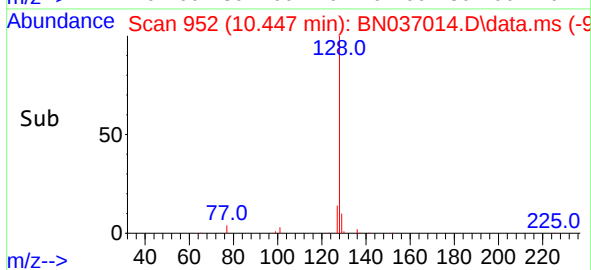
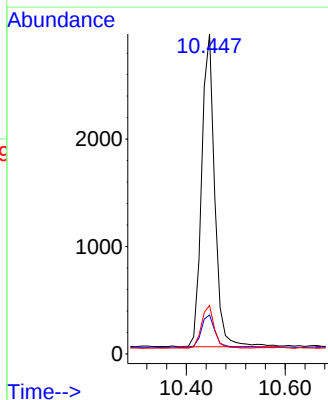
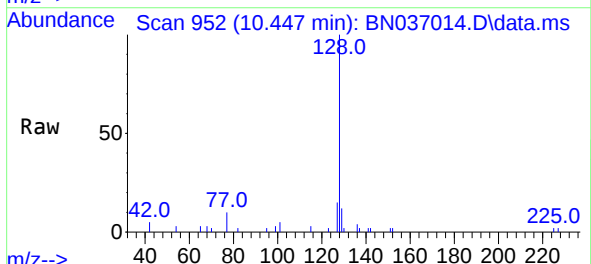
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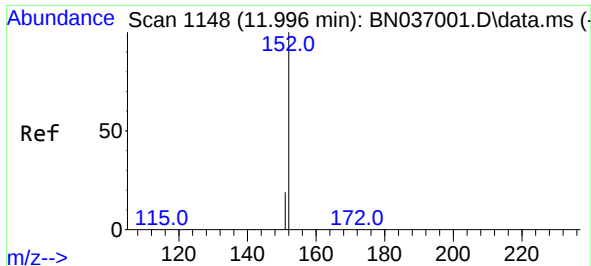
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#9
Naphthalene
Concen: 0.28 ng
RT: 10.447 min Scan# 952
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

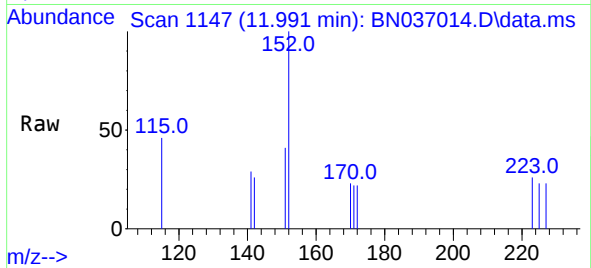
Tgt Ion:128 Resp: 5349
Ion Ratio Lower Upper
128 100
129 12.2 9.7 14.5
127 15.1 12.4 18.6





#11
2-Methylnaphthalene-d10
Concen: 0.03 ng
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

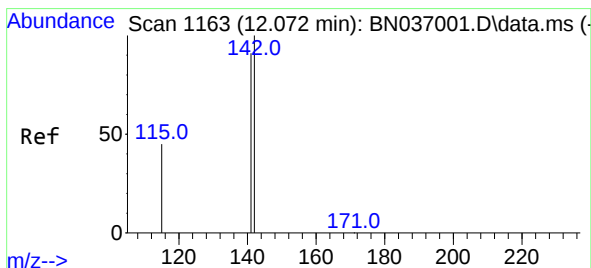
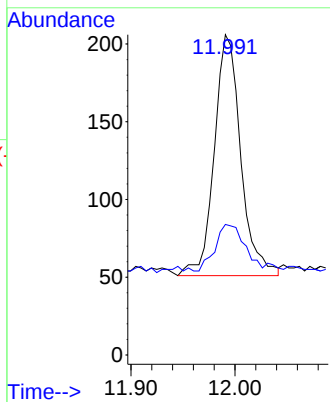
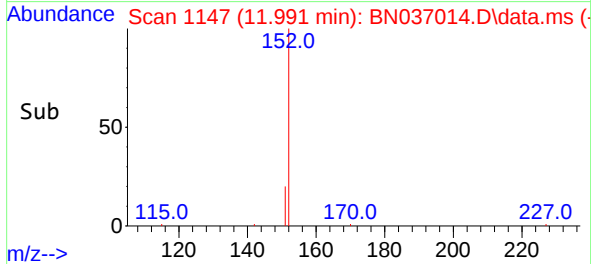
Instrument :
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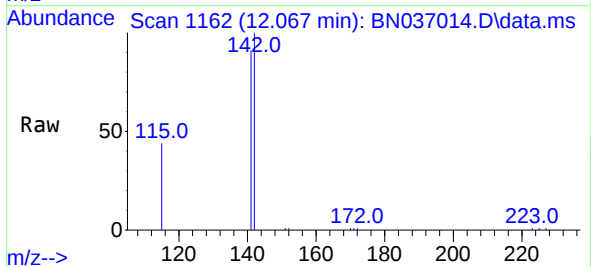
Tgt Ion:152 Resp: 274
Ion Ratio Lower Upper
152 100
151 22.6 17.5 26.3

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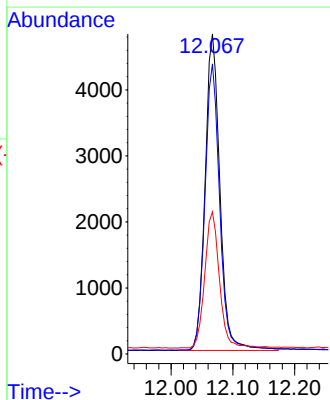
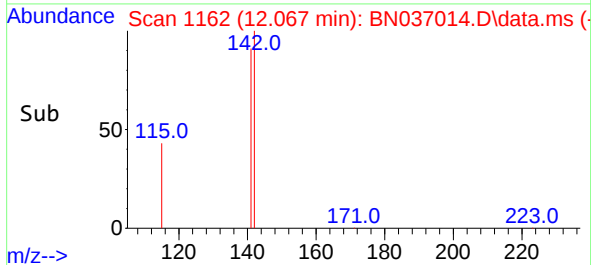
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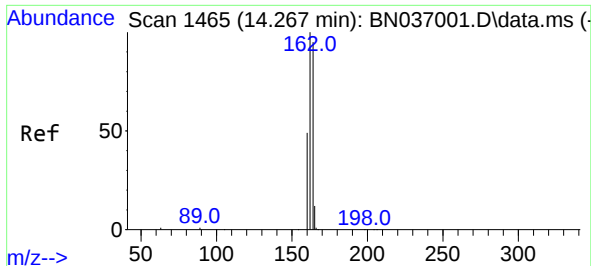


#12
2-Methylnaphthalene
Concen: 0.64 ng
RT: 12.067 min Scan# 1162
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



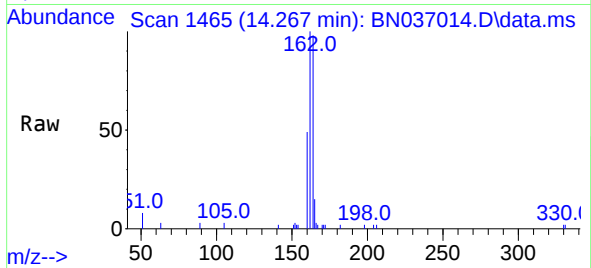
Tgt Ion:142 Resp: 7989
Ion Ratio Lower Upper
142 100
141 90.6 73.3 109.9
115 44.4 38.4 57.6





#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.267 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

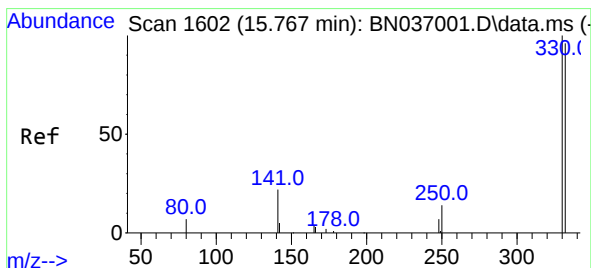
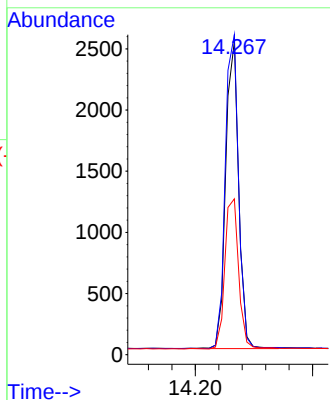
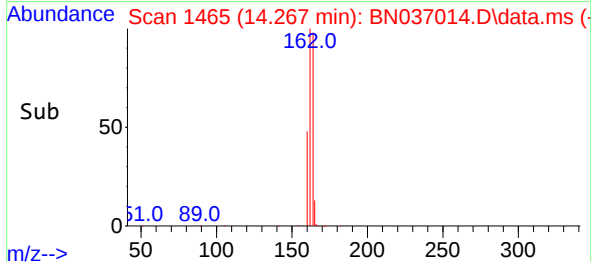
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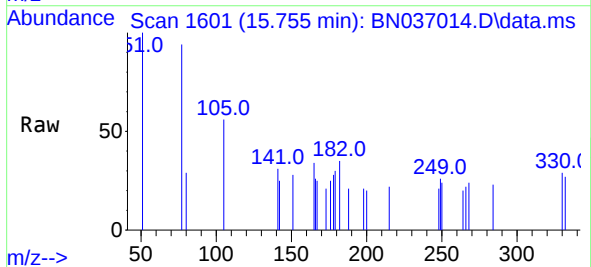
Tgt Ion:164 Resp: 384
Ion Ratio Lower Upper
164 100
162 102.1 84.2 126.4
160 49.7 42.6 63.8

Manual Integrations
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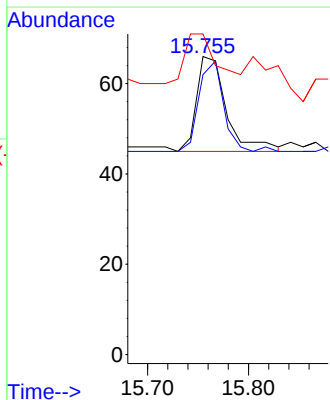
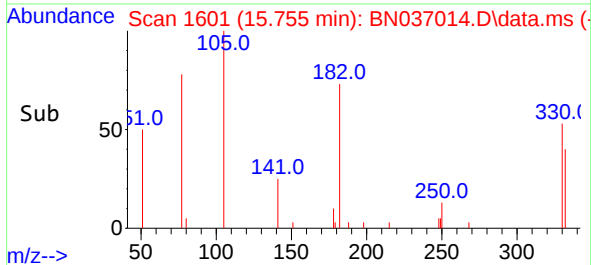
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Supervised By :Jagrut Upadhyay 05/15/2025

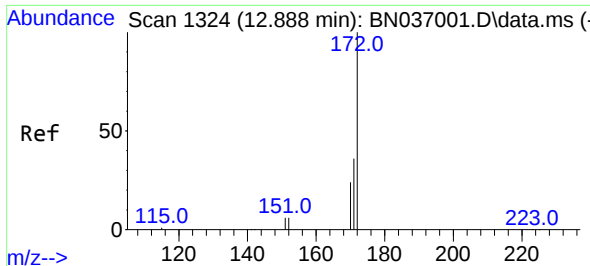


#14
2,4,6-Tribromophenol
Concen: 0.03 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



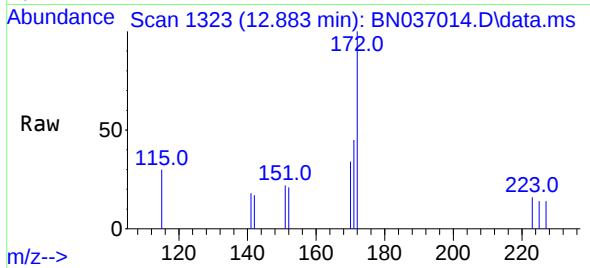
Tgt Ion:330 Resp: 43
Ion Ratio Lower Upper
330 100
332 79.1 73.8 110.8
141 0.0 43.9 65.9#





#15
2-Fluorobiphenyl
Concen: 0.03 ng
RT: 12.883 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

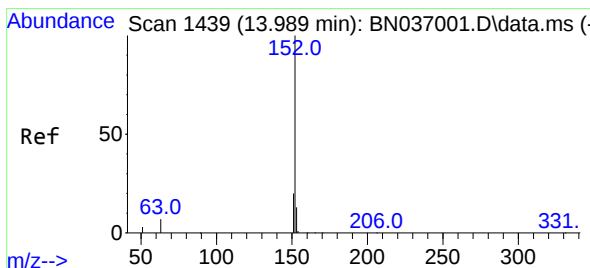
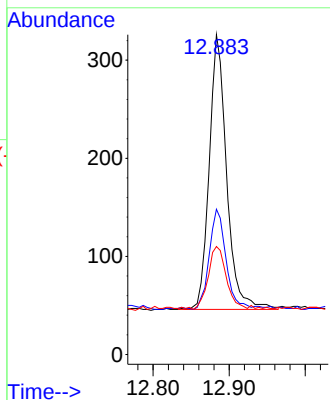
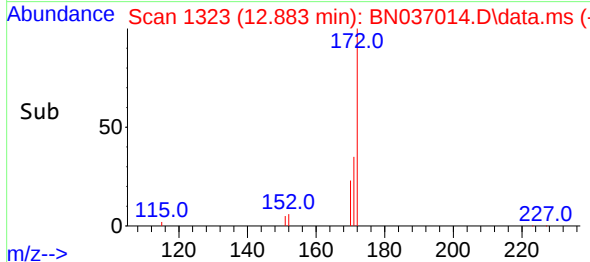
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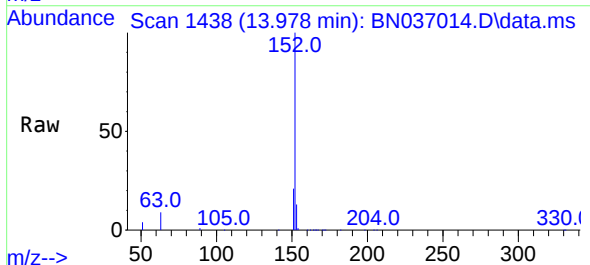
Tgt Ion:172 Resp: 440
Ion Ratio Lower Upper
172 100
171 45.4 29.2 43.8
170 33.7 20.5 30.7

Manual Integrations
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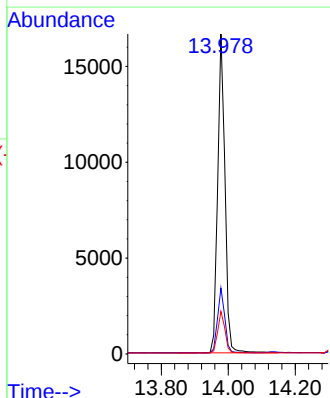
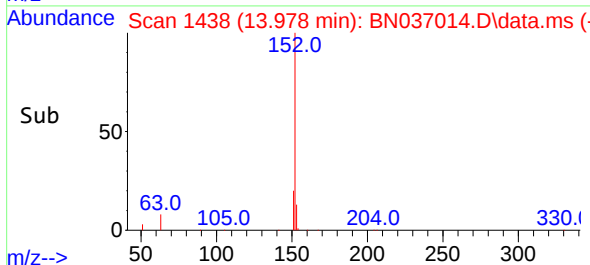
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Supervised By :Jagrut Upadhyay 05/15/2025

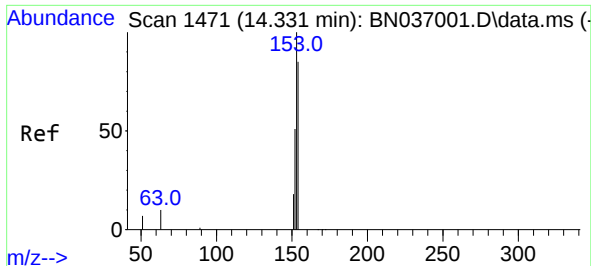


#16
Acenaphthylene
Concen: 1.34 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



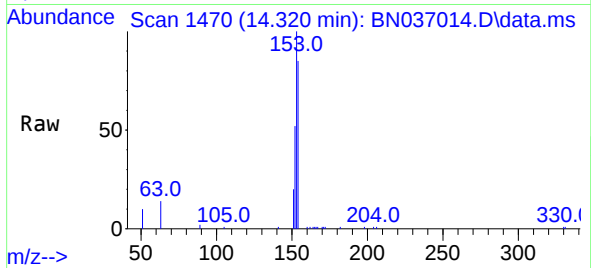
Tgt Ion:152 Resp: 25111
Ion Ratio Lower Upper
152 100
151 20.1 16.1 24.1
153 13.0 10.5 15.7





#17
Acenaphthene
Concen: 0.96 ng
RT: 14.320 min Scan# 1470
Delta R.T. -0.011 min
Lab File: BN037014.D
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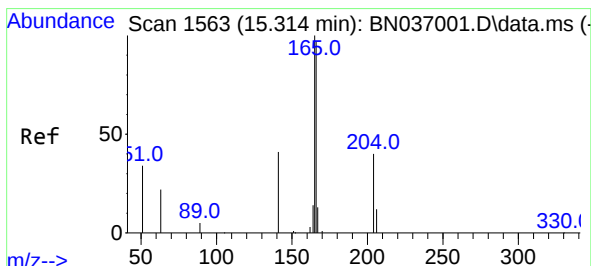
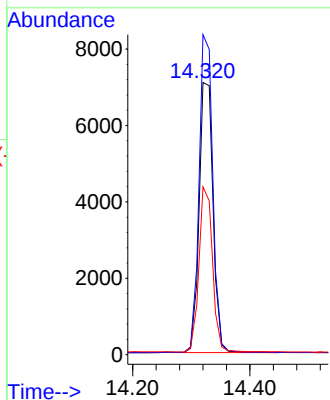
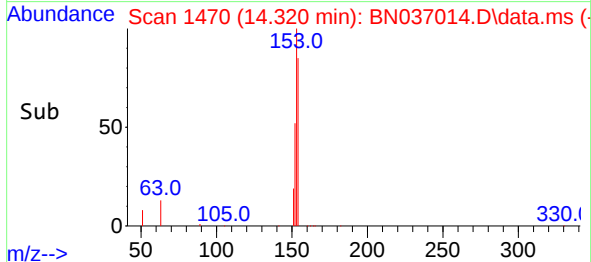
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILDL



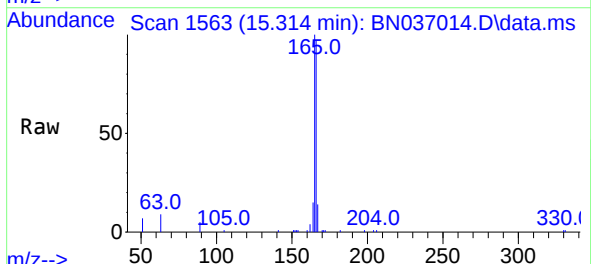
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Ion Ratio Lower Upper
154 100
153 116.5 94.2 141.4
152 59.7 49.4 74.0

Manual Integrations
APPROVED

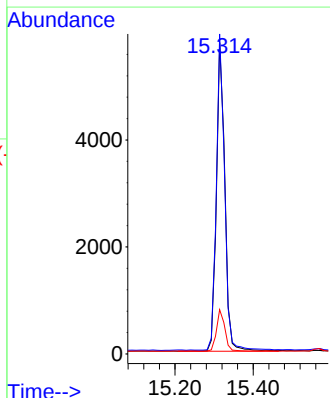
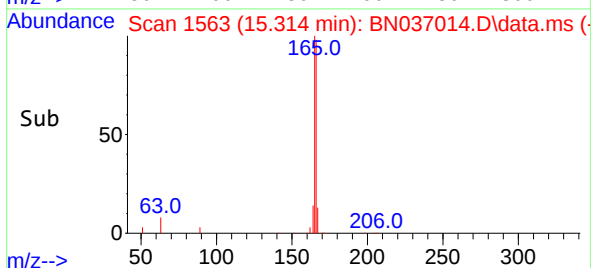
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

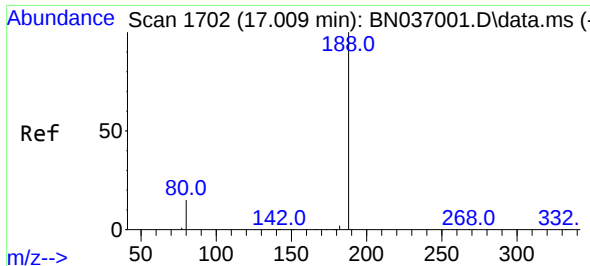


#18
Fluorene
Concen: 0.54 ng
RT: 15.314 min Scan# 1563
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



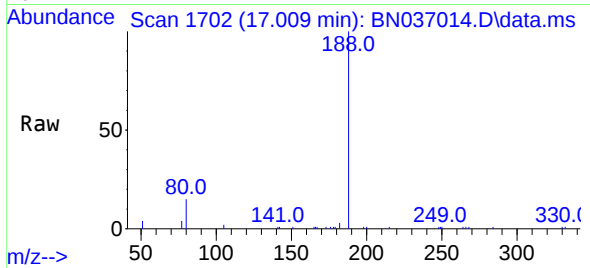
Tgt Ion:166 Resp: 8614
Ion Ratio Lower Upper
166 100
165 100.3 80.6 120.8
167 13.5 10.6 16.0





#19
Phenanthrene-d10
Concen: 0.40 ng
RT: 17.009 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

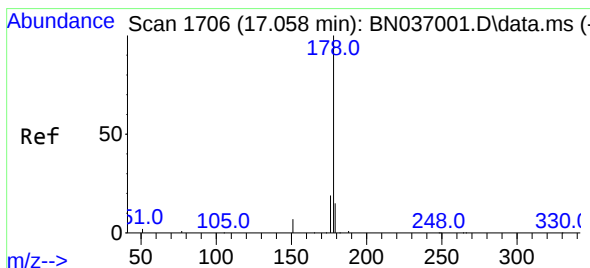
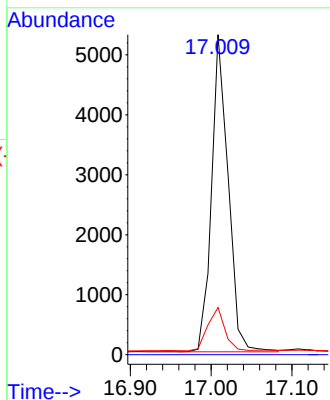
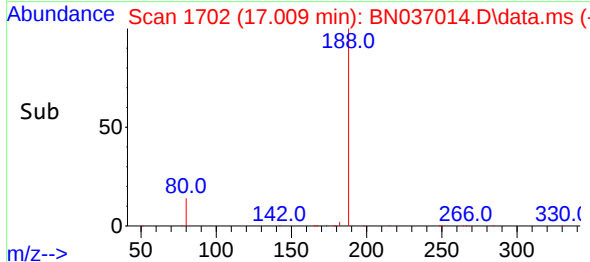
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



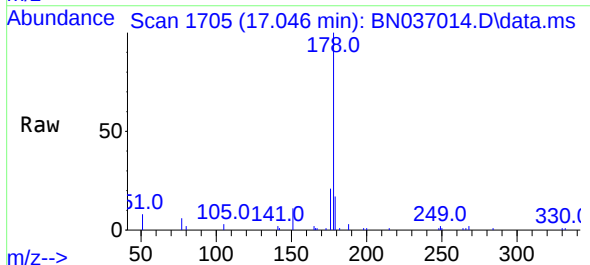
Tgt Ion:188 Resp: 755
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.8 13.4 20.0

Manual Integrations
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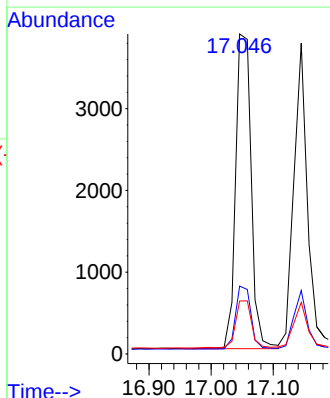
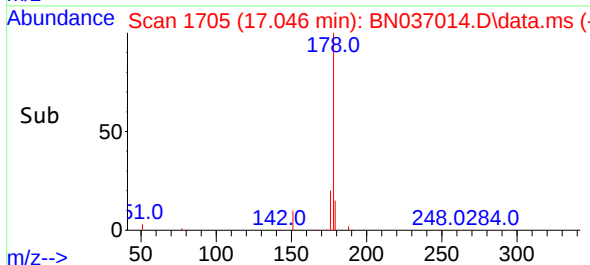
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

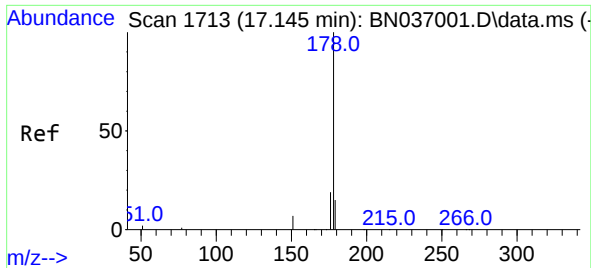


#25
Phenanthrene
Concen: 0.27 ng
RT: 17.046 min Scan# 1705
Delta R.T. -0.012 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



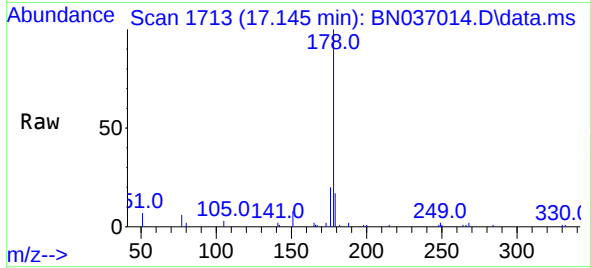
Tgt Ion:178 Resp: 6724
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.9 12.2 18.2





#26
 Anthracene
 Concen: 0.26 ng
 RT: 17.145 min Scan# 1713
 Delta R.T. -0.000 min
 Lab File: BN037014.D
 Acq: 14 May 2025 15:48

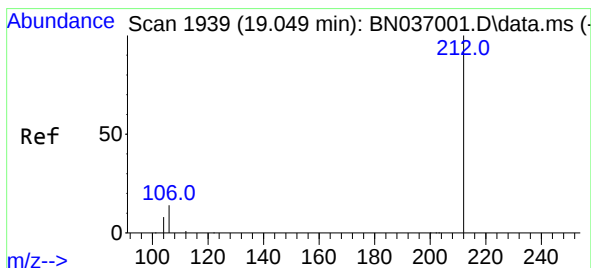
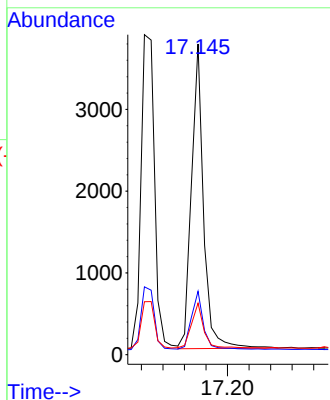
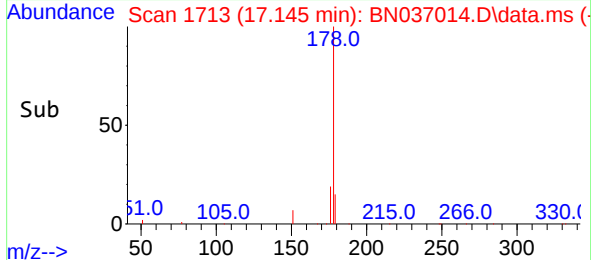
Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-PAH-SOILD



Tgt Ion:178 Resp: 5812
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.0 22.6
 179 15.2 12.3 18.5

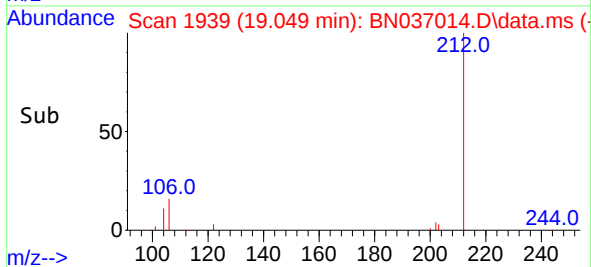
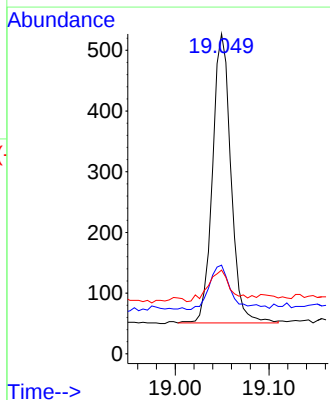
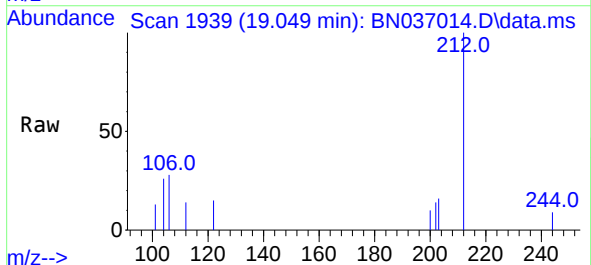
Manual Integrations
 APPROVED

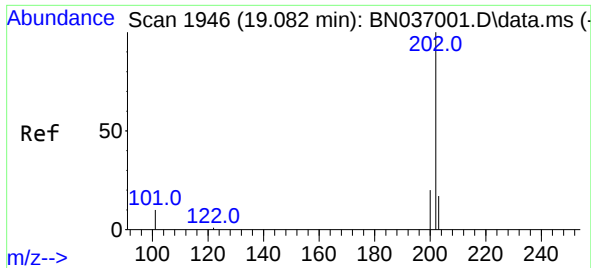
Reviewed By :Rahul Chavli 05/15/2025
 Supervised By :Jagrut Upadhyay 05/15/2025



#27
 Fluoranthene-d10
 Concen: 0.03 ng
 RT: 19.049 min Scan# 1939
 Delta R.T. -0.000 min
 Lab File: BN037014.D
 Acq: 14 May 2025 15:48

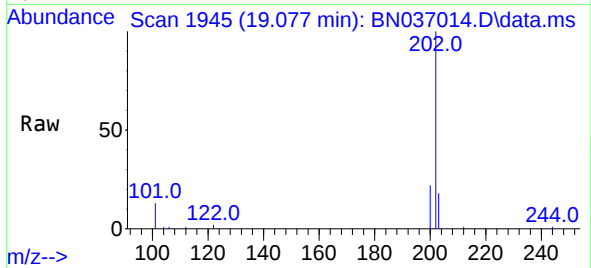
Tgt Ion:212 Resp: 647
 Ion Ratio Lower Upper
 212 100
 106 18.5 11.3 16.9#
 104 12.8 6.7 10.1#





#28
Fluoranthene
Concen: 0.43 ng
RT: 19.077 min Scan# 1946
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

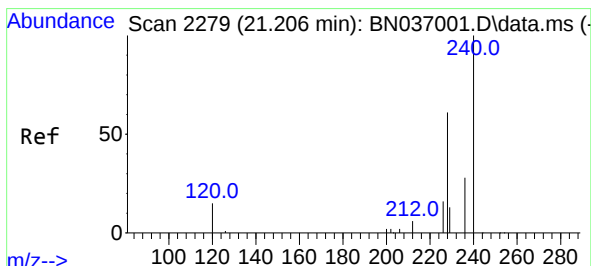
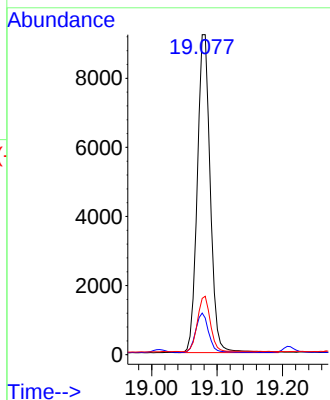
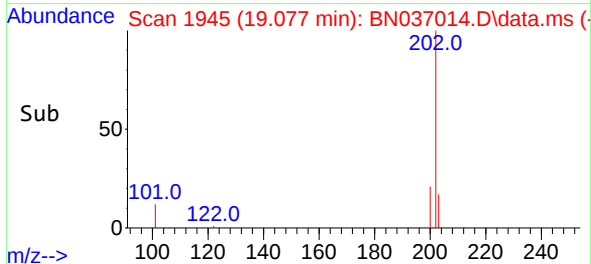
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



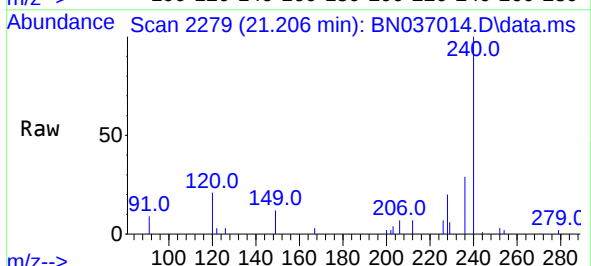
Tgt Ion:202 Resp: 1268
Ion Ratio Lower Upper
202 100
101 12.3 8.9 13.3
203 17.3 13.8 20.8

Manual Integrations
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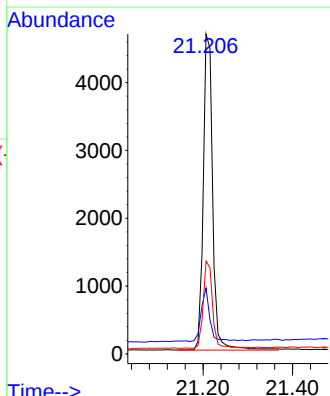
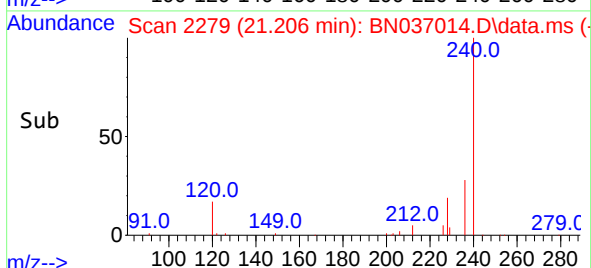
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

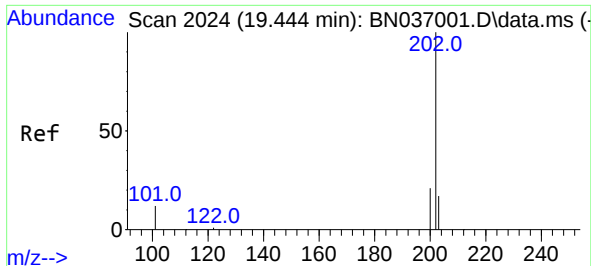


#29
Chrysene-d12
Concen: 0.40 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



Tgt Ion:240 Resp: 6828
Ion Ratio Lower Upper
240 100
120 20.6 15.1 22.7
236 29.0 24.0 36.0





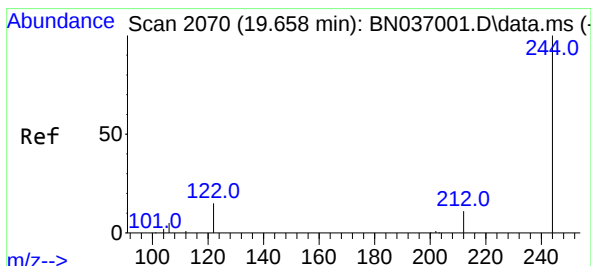
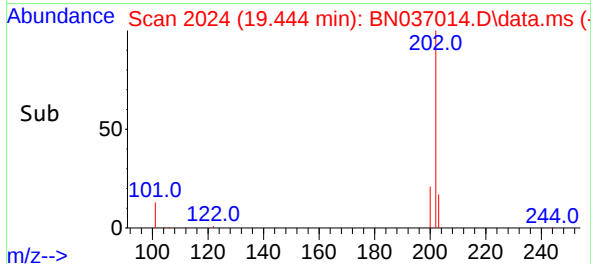
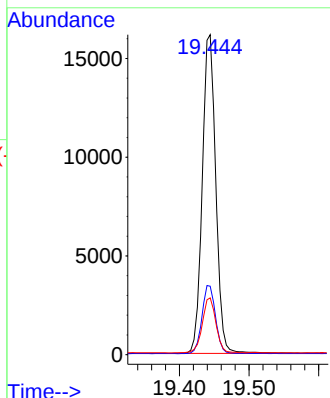
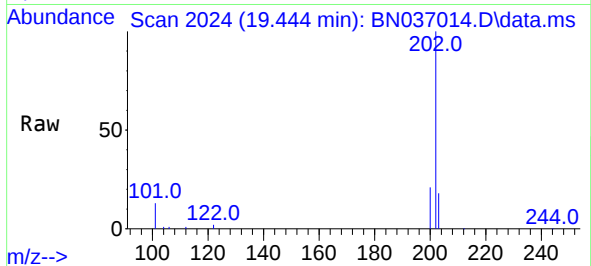
#30
Pyrene
Concen: 0.75 ng
RT: 19.444 min Scan# 2024
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILDL

Tgt Ion:202 Resp: 21770
Ion Ratio Lower Upper
202 100
200 21.6 17.1 25.7
203 17.5 14.2 21.4

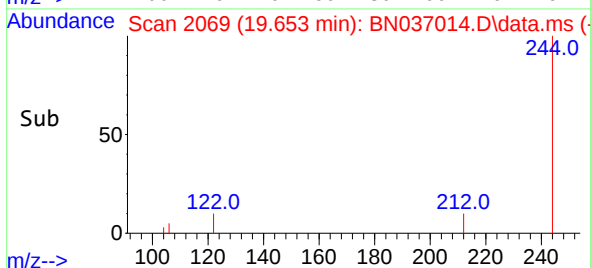
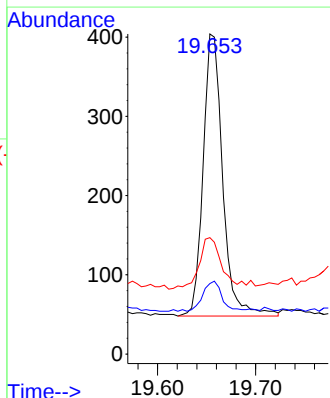
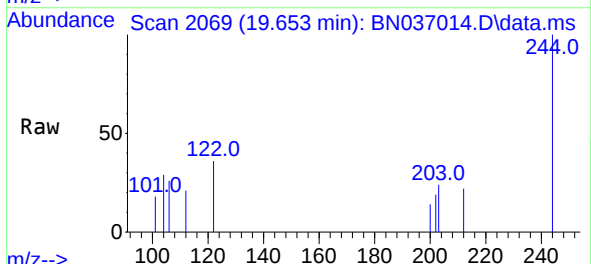
Manual Integrations
APPROVED

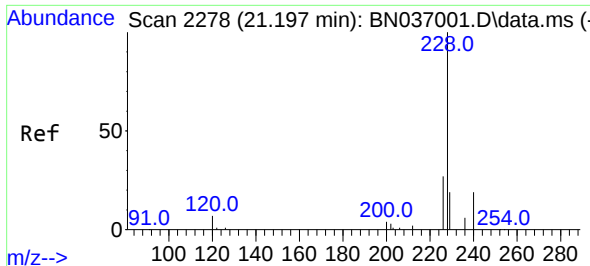
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#31
Terphenyl-d14
Concen: 0.03 ng
RT: 19.653 min Scan# 2069
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

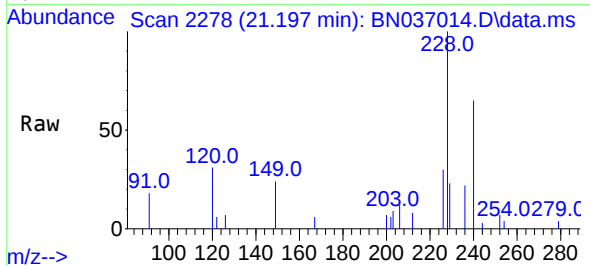
Tgt Ion:244 Resp: 493
Ion Ratio Lower Upper
244 100
212 22.0 9.7 14.5#
122 36.4 13.4 20.0#





#32
Benzo(a)anthracene
Concen: 0.12 ng
RT: 21.197 min Scan# 2119
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

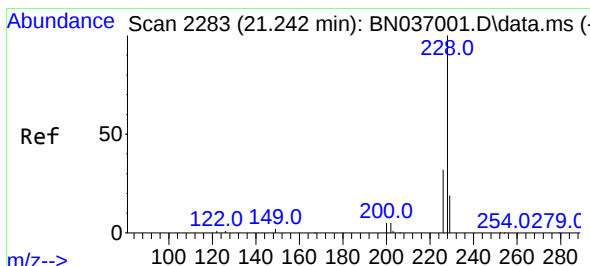
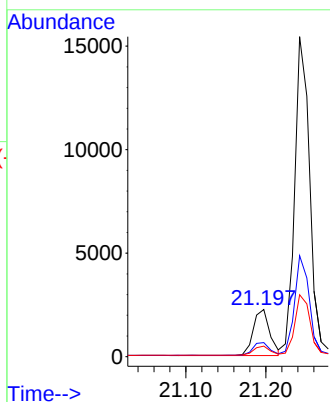
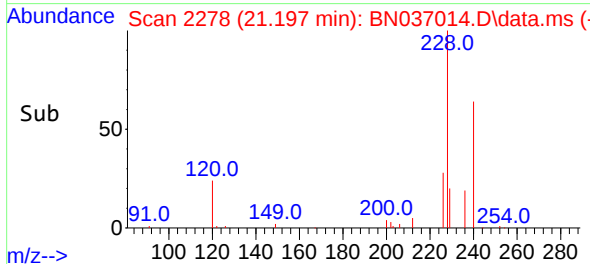
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



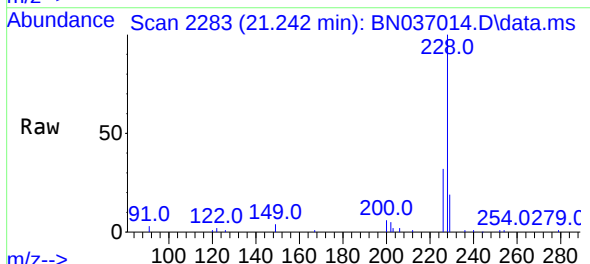
Tgt Ion:228 Resp: 3185
Ion Ratio Lower Upper
228 100
226 29.9 22.2 33.4
229 22.5 16.0 24.0

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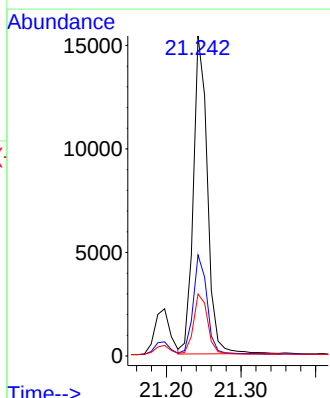
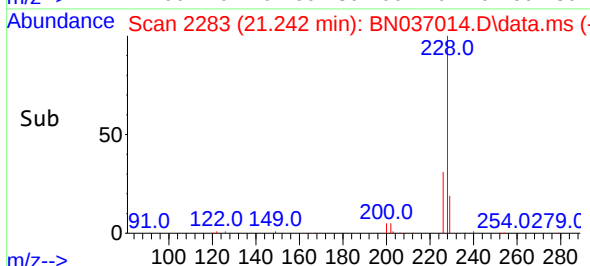
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

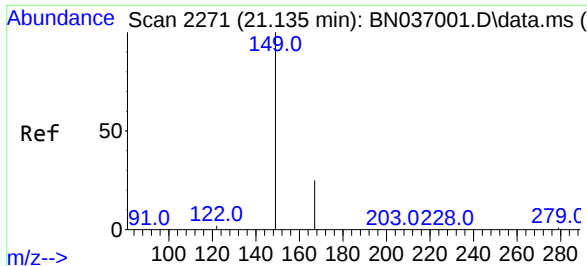


#33
Chrysene
Concen: 0.74 ng
RT: 21.242 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



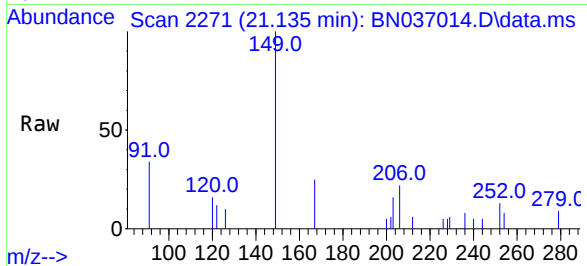
Tgt Ion:228 Resp: 20196
Ion Ratio Lower Upper
228 100
226 31.6 26.3 39.5
229 19.3 16.2 24.2





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.06 ng
RT: 21.135 min Scan# 2113
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

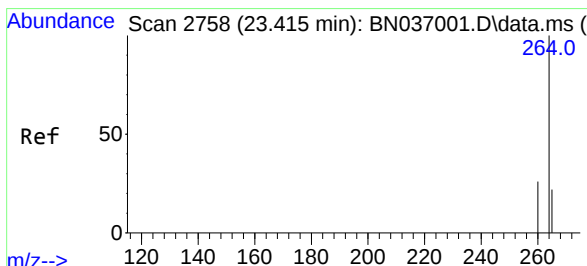
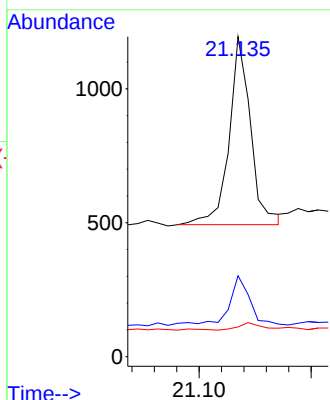
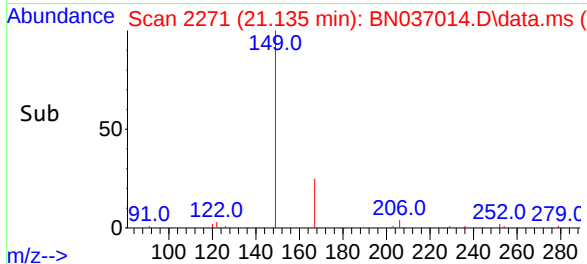
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



Tgt Ion:149 Resp: 938
Ion Ratio Lower Upper
149 100
167 24.7 20.6 30.8
279 5.5 2.6 3.8

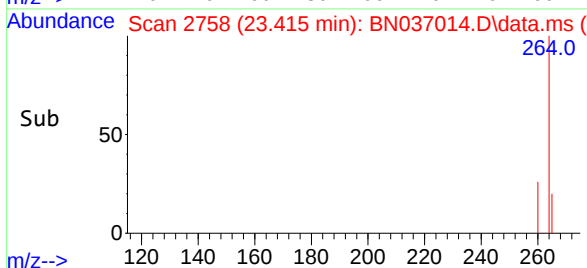
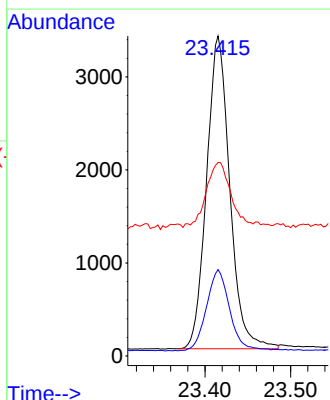
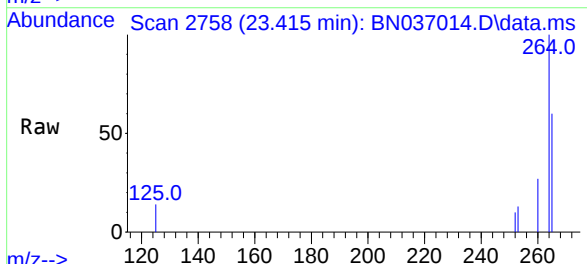
Manual Integrations
APPROVED

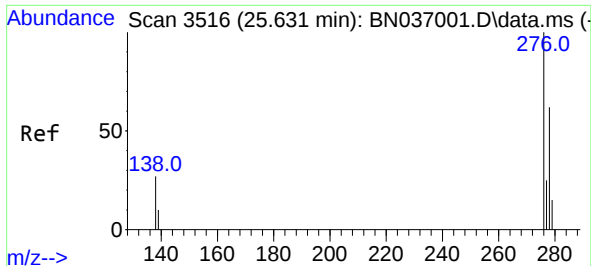
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#35
Perylene-d12
Concen: 0.40 ng
RT: 23.415 min Scan# 2758
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

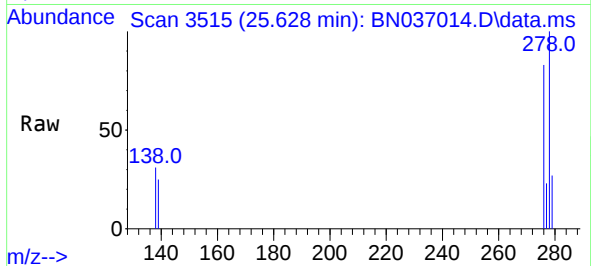
Tgt Ion:264 Resp: 6318
Ion Ratio Lower Upper
264 100
260 27.0 21.9 32.9
265 60.5 51.6 77.4





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.37 ng
RT: 25.628 min Scan# 3516
Delta R.T. -0.003 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

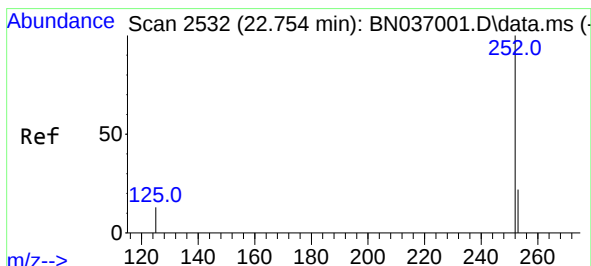
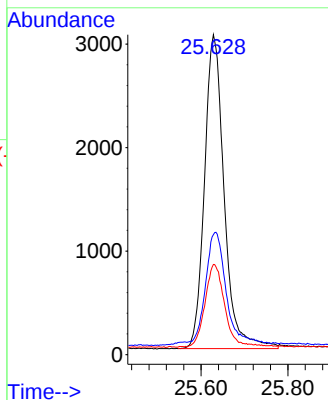
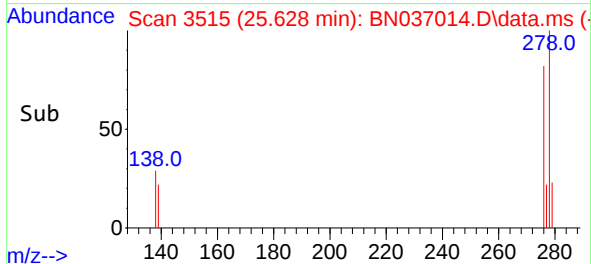
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



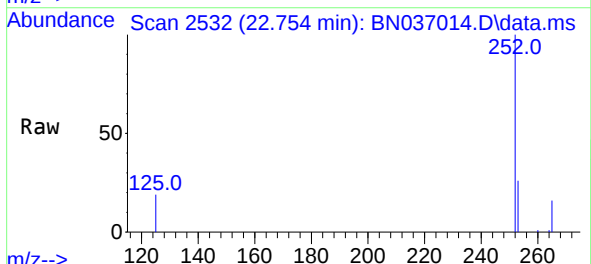
Tgt Ion:276 Resp: 9550
Ion Ratio Lower Upper
276 100
138 36.2 22.7 34.1
277 26.0 20.0 30.0

Manual Integrations
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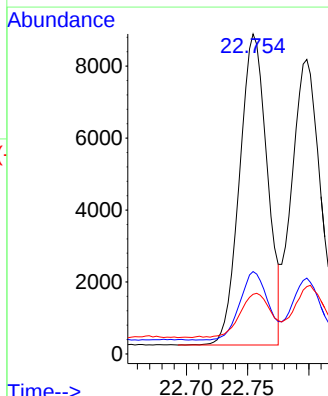
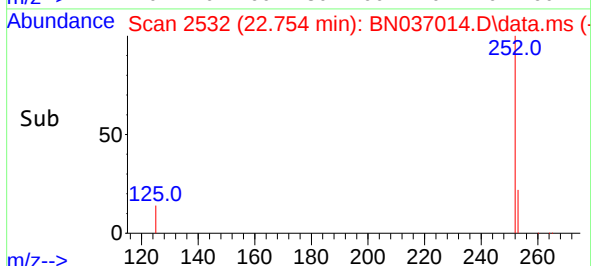
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

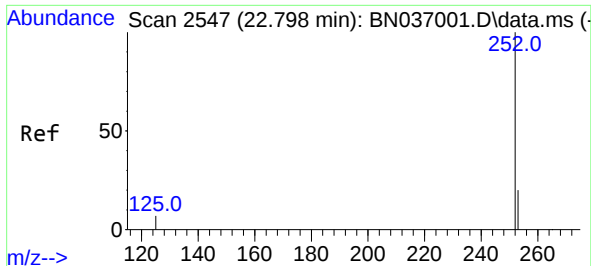


#37
Benzo(b)fluoranthene
Concen: 0.52 ng
RT: 22.754 min Scan# 2532
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



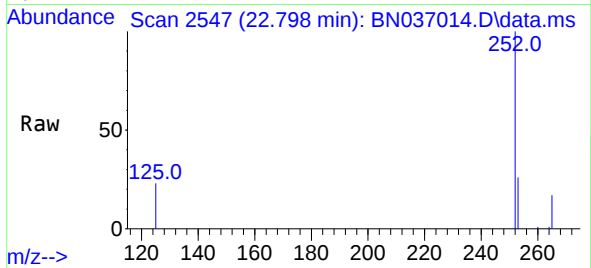
Tgt Ion:252 Resp: 13577
Ion Ratio Lower Upper
252 100
253 25.8 21.8 32.6
125 18.7 14.6 21.8





#38
Benzo(k)fluoranthene
Concen: 0.52 ng m
RT: 22.798 min Scan# 2547
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

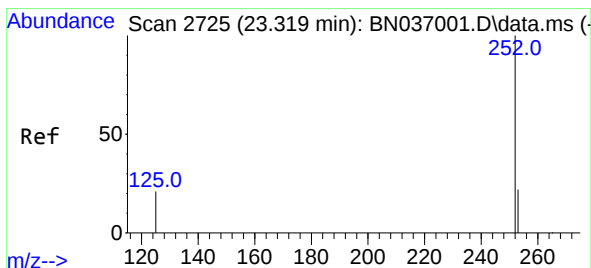
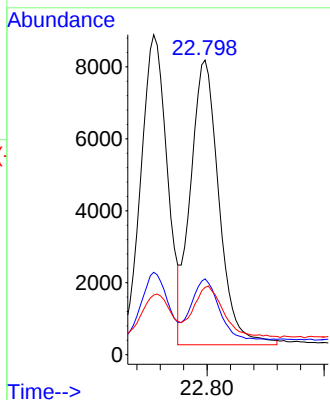
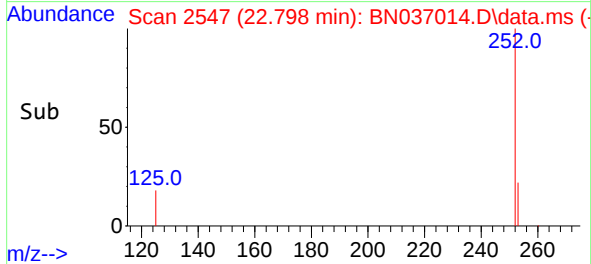
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



Tgt Ion:252 Resp: 1338
Ion Ratio Lower Upper
252 100
253 25.7 21.4 32.2
125 22.9 13.0 19.4

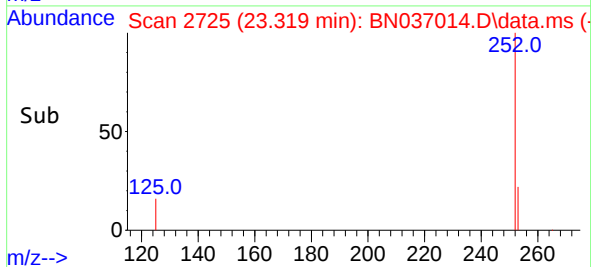
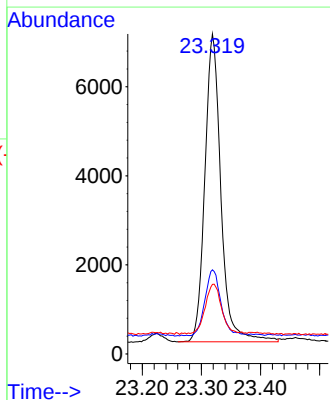
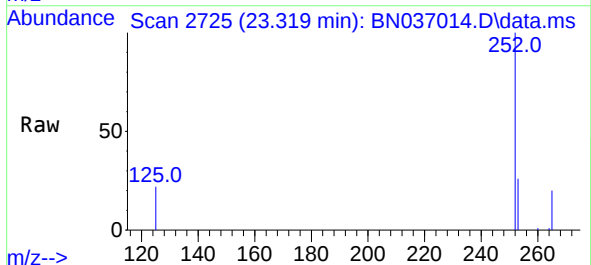
Manual Integrations
APPROVED

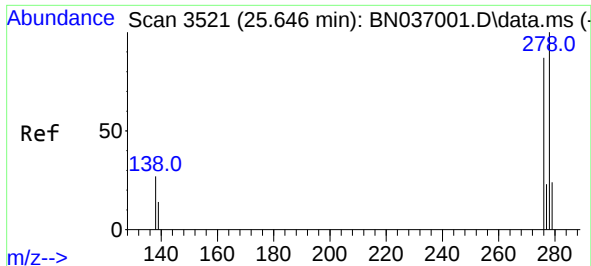
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#39
Benzo(a)pyrene
Concen: 0.59 ng
RT: 23.319 min Scan# 2725
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

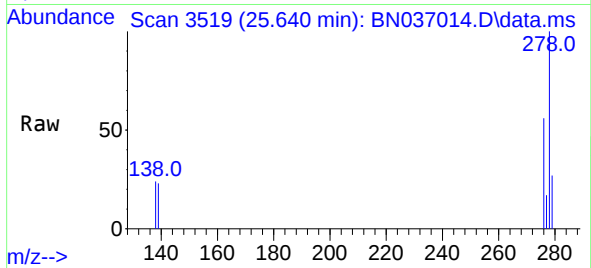
Tgt Ion:252 Resp: 13061
Ion Ratio Lower Upper
252 100
253 26.3 23.8 35.6
125 21.7 21.8 32.6





#40
Dibenzo(a,h)anthracene
Concen: 0.66 ng
RT: 25.640 min Scan# 3521
Delta R.T. -0.006 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

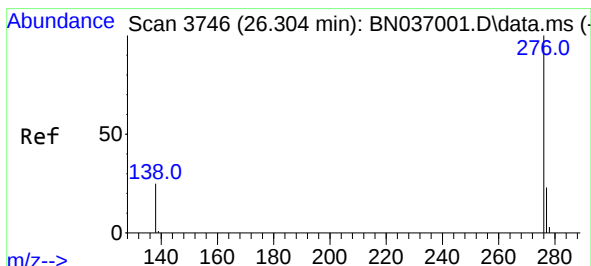
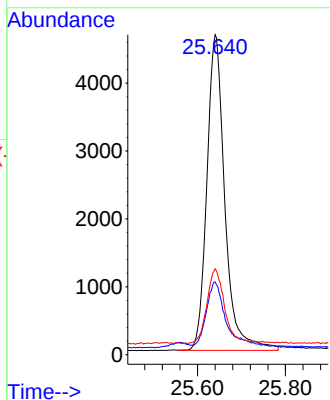
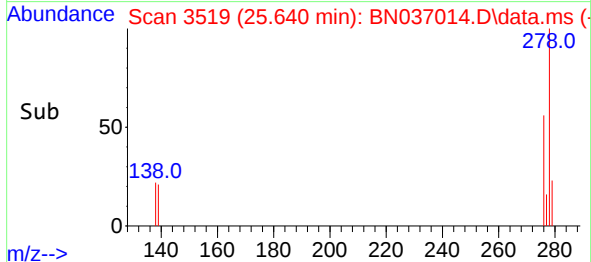
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



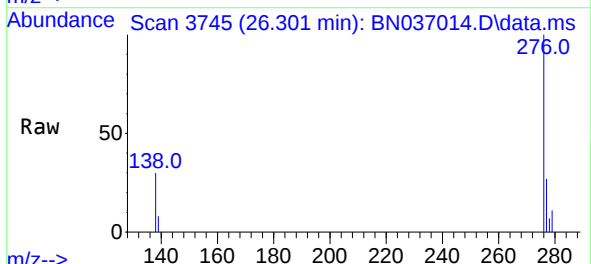
Tgt Ion:278 Resp: 1323
Ion Ratio Lower Upper
278 100
139 22.7 17.4 26.0
279 26.8 24.6 37.0

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#41
Benzo(g,h,i)perylene
Concen: 0.21 ng
RT: 26.301 min Scan# 3745
Delta R.T. -0.003 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



Tgt Ion:276 Resp: 4514
Ion Ratio Lower Upper
276 100
277 26.9 20.2 30.4
138 30.4 22.0 33.0

