

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111122\
 Data File : BN022600.D
 Acq On : 10 Nov 2022 14:43
 Operator : CG/JU
 Sample : N5317-14
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

Quant Time: Nov 10 23:51:17 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111122.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 10 23:28:29 2022
 Response via : Initial Calibration

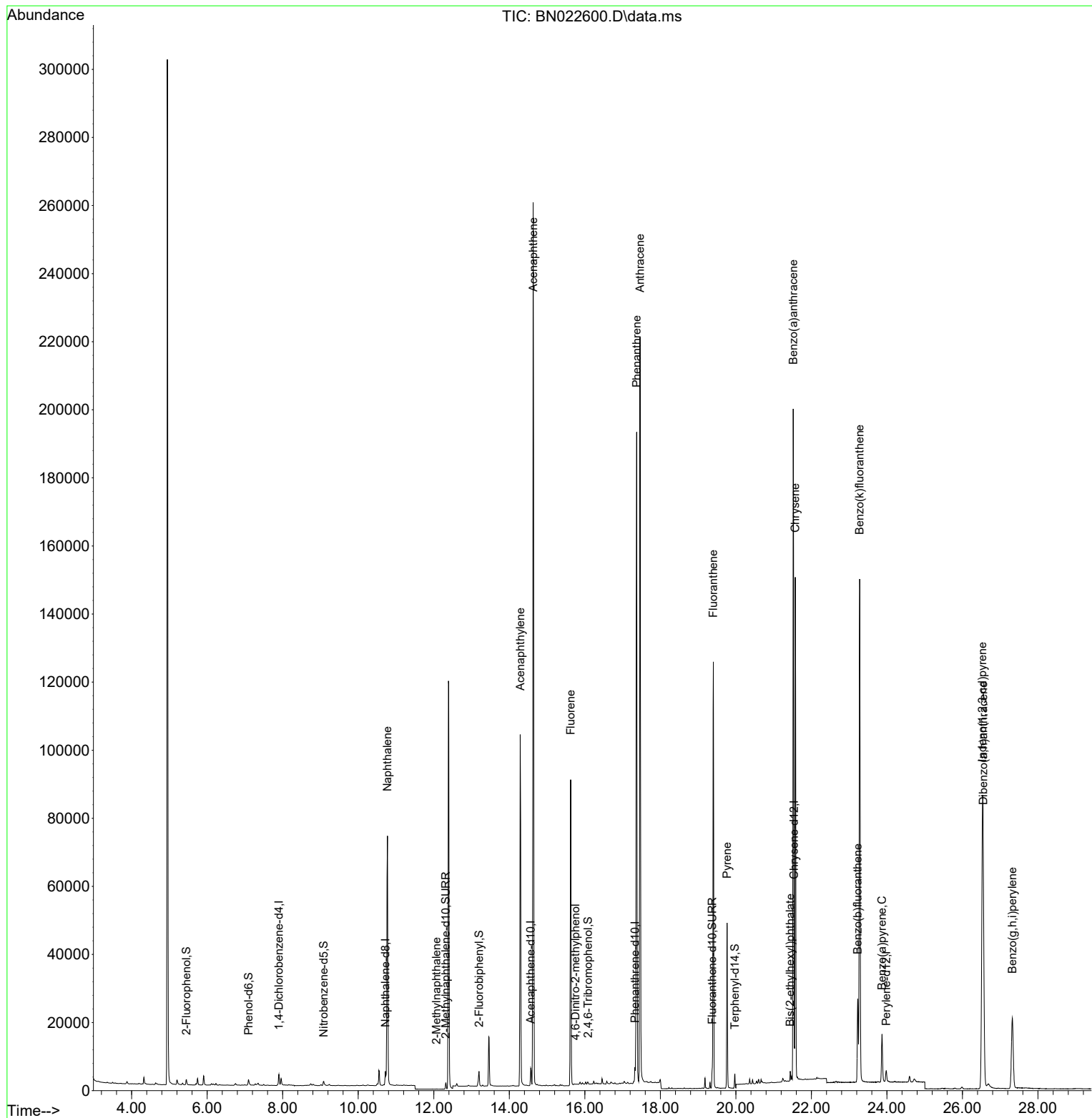
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.899	152	1719	0.400	ng	0.00
7) Naphthalene-d8	10.720	136	5315	0.400	ng	0.00
13) Acenaphthene-d10	14.568	164	3078	0.400	ng	0.00
19) Phenanthrene-d10	17.325	188	6351	0.400	ng	0.00
29) Chrysene-d12	21.537	240	5607	0.400	ng	0.00
35) Perylene-d12	23.982	264	4920	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.450	112	1429	0.287	ng	0.00
5) Phenol-d6	7.097	99	2019	0.325	ng	0.00
8) Nitrobenzene-d5	9.086	82	1377	0.272	ng	0.01
11) 2-Methylnaphthalene-d10	12.319	152	2487	0.287	ng	0.00
14) 2,4,6-Tribromophenol	16.084	330	421	0.283	ng	0.01
15) 2-Fluorobiphenyl	13.199	172	3897	0.311	ng	0.00
27) Fluoranthene-d10	19.373	212	5883	0.336	ng	0.00
31) Terphenyl-d14	19.972	244	5909	0.340	ng	0.00
Target Compounds						
9) Naphthalene	10.773	128	98190	6.261	ng	98
12) 2-Methylnaphthalene	12.073	142	69	0.022	ng	# 1
16) Acenaphthylene	14.290	152	111441	7.865	ng	100
17) Acenaphthene	14.632	154	125271	12.898	ng	98
18) Fluorene	15.626	166	55670	4.232	ng	99
20) 4,6-Dinitro-2-methylph...	15.749	198	1	0.270	ng	# 1
25) Phenanthrene	17.375	178	202790	9.905	ng	100
26) Anthracene	17.462	178	217280	12.426	ng	100
28) Fluoranthene	19.403	202	108079	4.870	ng	99
30) Pyrene	19.765	202	43564	1.907	ng	100
32) Benzo(a)anthracene	21.519	228	163004	7.906	ng	98
33) Chrysene	21.573	228	123872	5.828	ng	99
34) Bis(2-ethylhexyl)phtha...	21.439	149	2861	0.240	ng	98
36) Indeno(1,2,3-cd)pyrene	26.528	276	147044	6.326	ng	97
37) Benzo(b)fluoranthene	23.227	252	29372	1.475	ng	95
38) Benzo(k)fluoranthene	23.277	252	195559	9.841	ng	# 89
39) Benzo(a)pyrene	23.871	252	21619	1.336	ng	# 87
40) Dibenzo(a,h)anthracene	26.552	278	63908	3.419	ng	92
41) Benzo(g,h,i)perylene	27.321	276	46137	2.345	ng	97

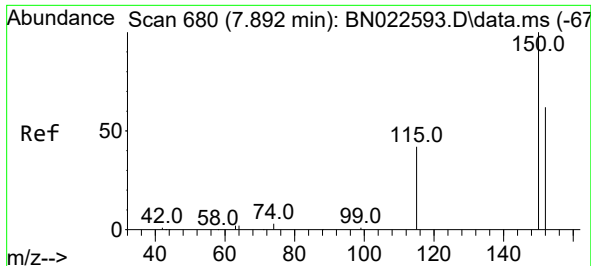
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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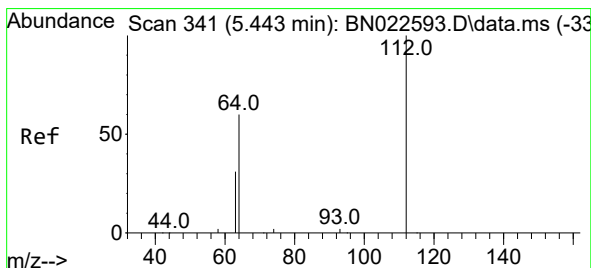
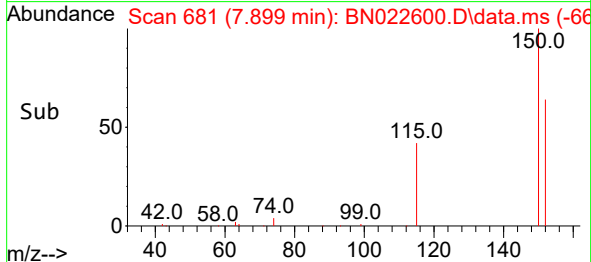
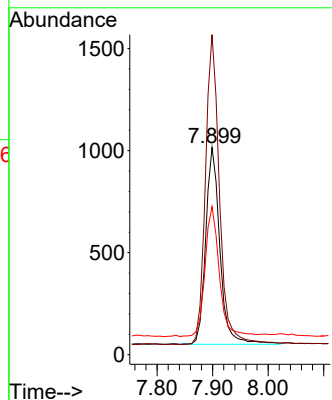
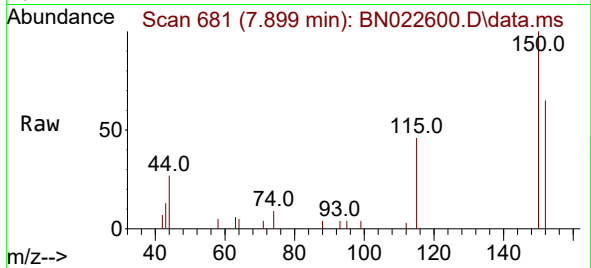




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.899 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

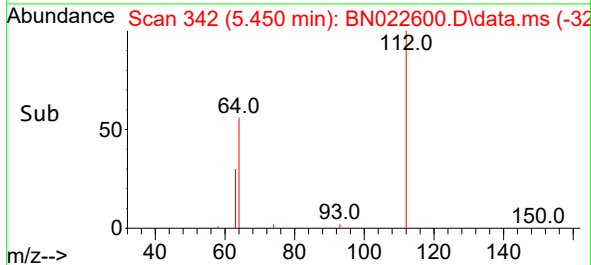
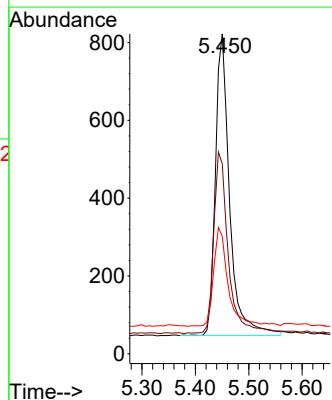
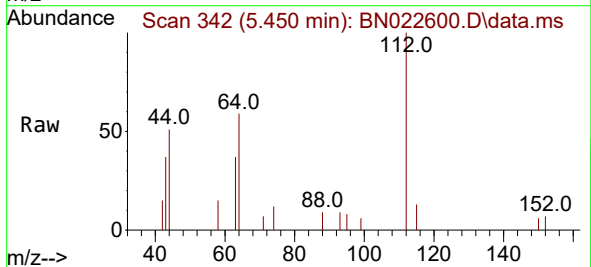
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

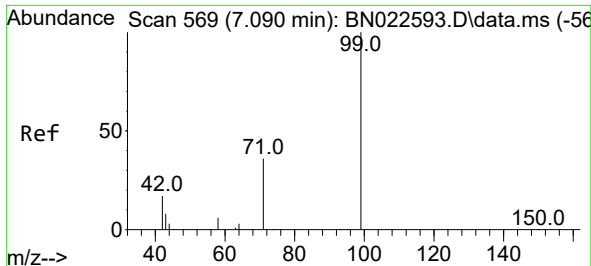
Tgt Ion:152 Resp: 1719
Ion Ratio Lower Upper
152 100
150 154.5 126.4 189.6
115 71.4 57.8 86.6



#4
2-Fluorophenol
Concen: 0.287 ng
RT: 5.450 min Scan# 342
Delta R.T. 0.007 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

Tgt Ion:112 Resp: 1429
Ion Ratio Lower Upper
112 100
64 62.3 48.6 73.0
63 33.0 25.5 38.3

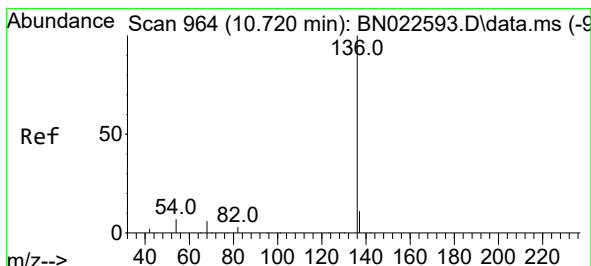
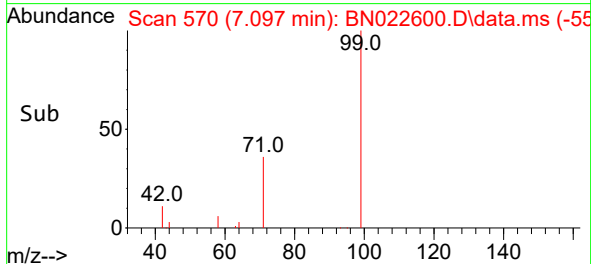
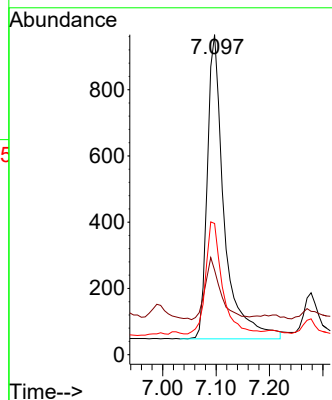
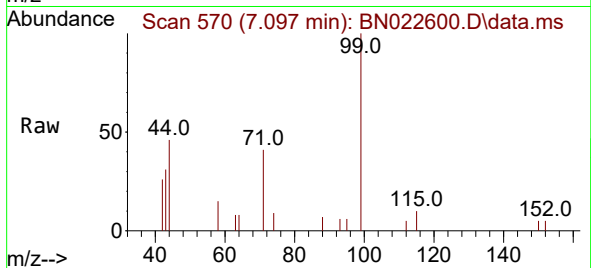




#5
Phenol-d6
Concen: 0.325 ng
RT: 7.097 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

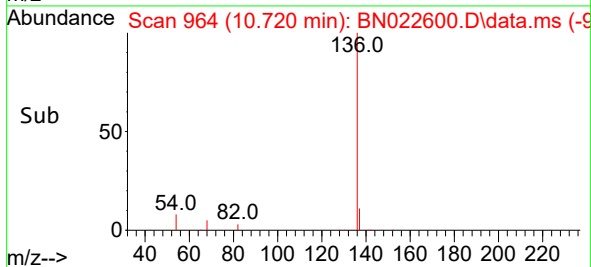
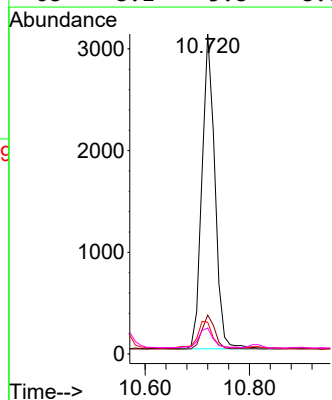
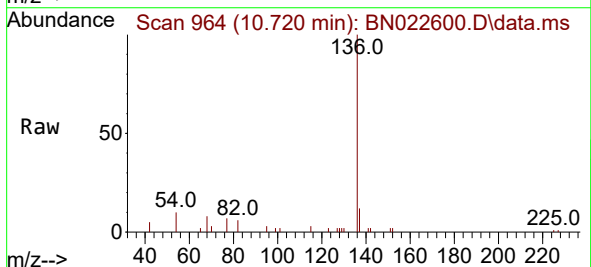
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

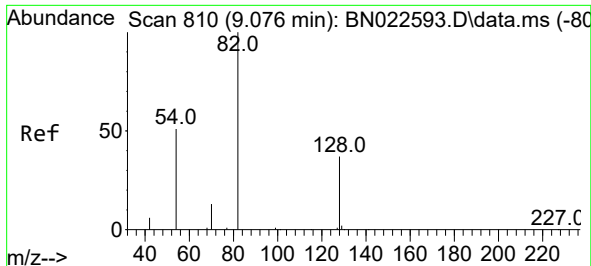
Tgt Ion: 99 Resp: 2019
Ion Ratio Lower Upper
99 100
42 18.4 16.0 24.0
71 36.1 30.1 45.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.720 min Scan# 964
Delta R.T. -0.000 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

Tgt Ion: 136 Resp: 5315
Ion Ratio Lower Upper
136 100
137 12.2 9.4 14.2
54 9.9 7.1 10.7
68 8.1 5.8 8.6

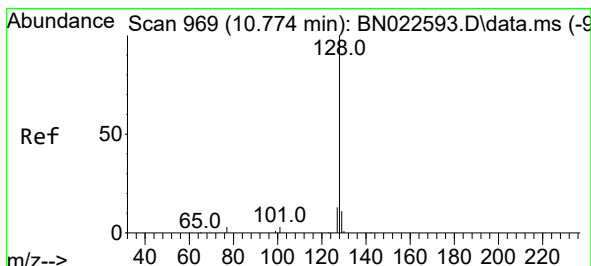
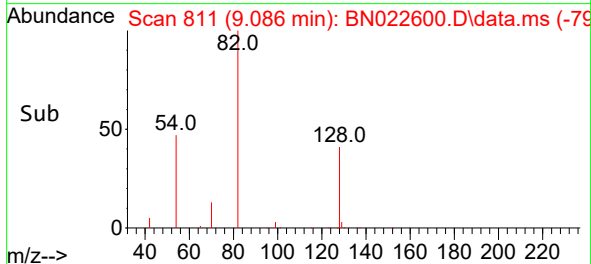
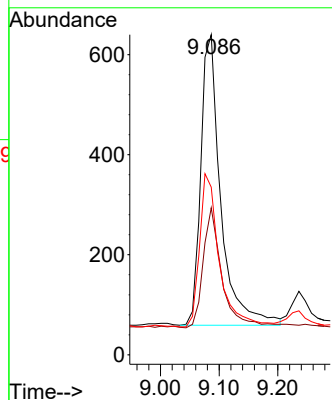
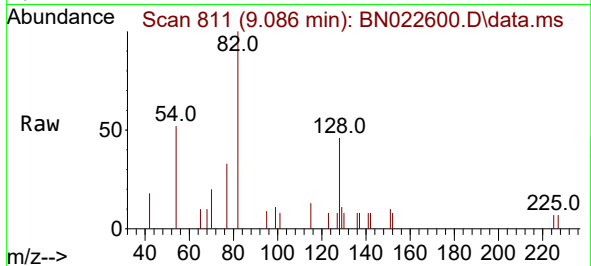




#8
Nitrobenzene-d5
Concen: 0.272 ng
RT: 9.086 min Scan# 810
Delta R.T. 0.011 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

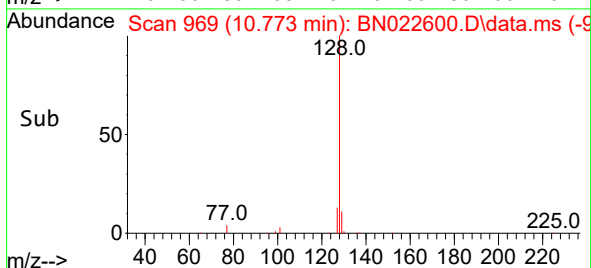
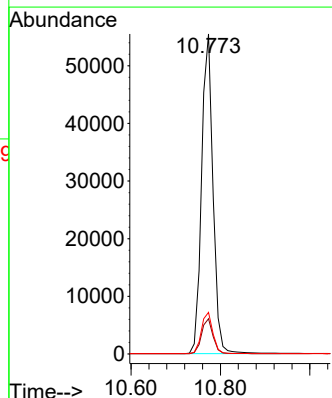
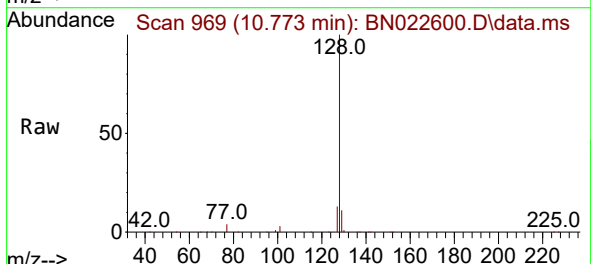
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

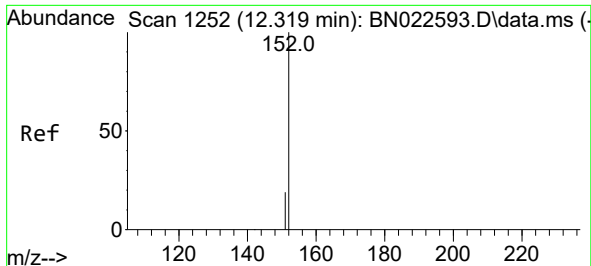
Tgt Ion: 82 Resp: 1377
Ion Ratio Lower Upper
82 100
128 45.9 32.0 48.0
54 52.3 42.3 63.5



#9
Naphthalene
Concen: 6.261 ng
RT: 10.773 min Scan# 969
Delta R.T. -0.000 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

Tgt Ion: 128 Resp: 98190
Ion Ratio Lower Upper
128 100
129 11.0 9.5 14.3
127 13.0 11.2 16.8





#11

2-Methylnaphthalene-d10

Concen: 0.287 ng

RT: 12.319 min Scan# 1187

Delta R.T. -0.000 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

Instrument :

BNA_N

ClientSampleId :

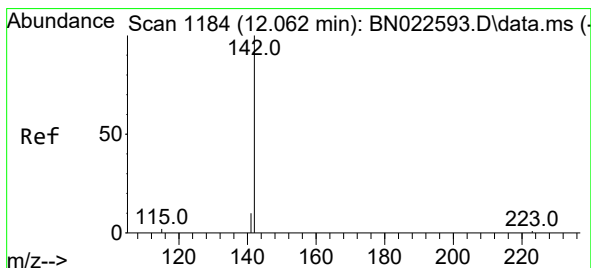
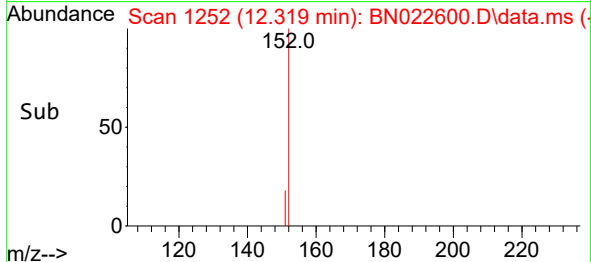
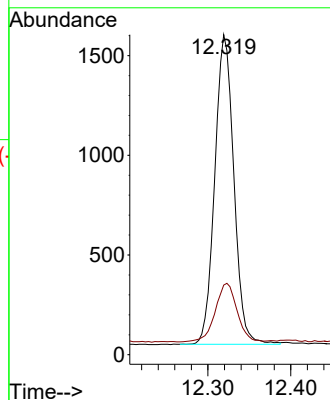
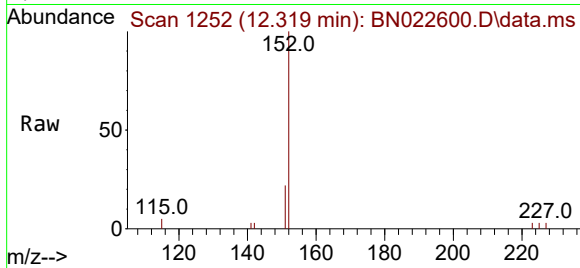
PT-PAH-SOIL

Tgt Ion:152 Resp: 2487

Ion Ratio Lower Upper

152 100

151 21.7 16.3 24.5



#12

2-Methylnaphthalene

Concen: 0.022 ng

RT: 12.073 min Scan# 1187

Delta R.T. 0.011 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

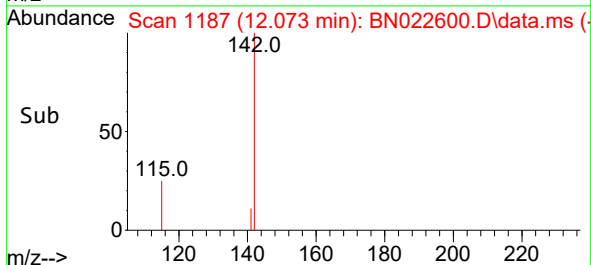
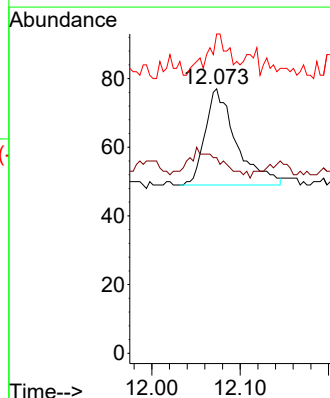
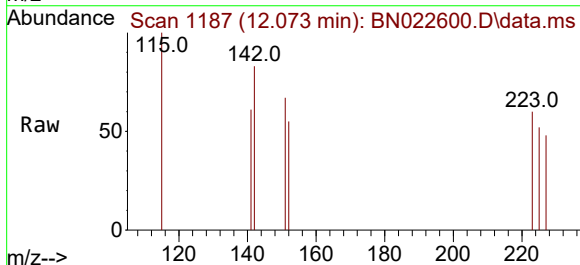
Tgt Ion:142 Resp: 69

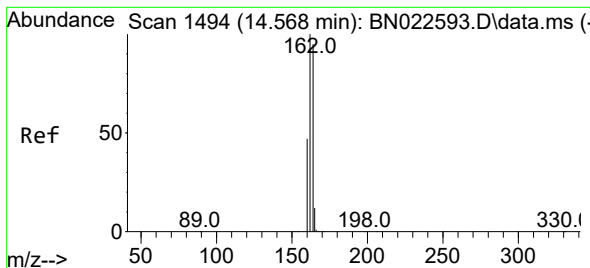
Ion Ratio Lower Upper

142 100

141 74.0 14.0 21.0#

115 120.8 11.4 17.2#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.568 min Scan# 1494

Delta R.T. -0.000 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

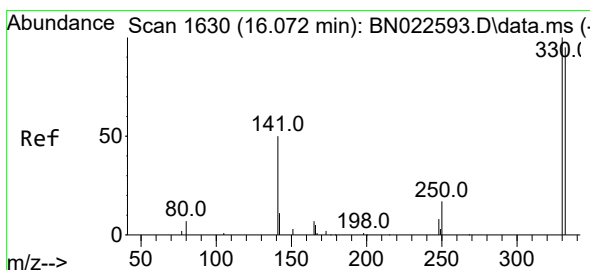
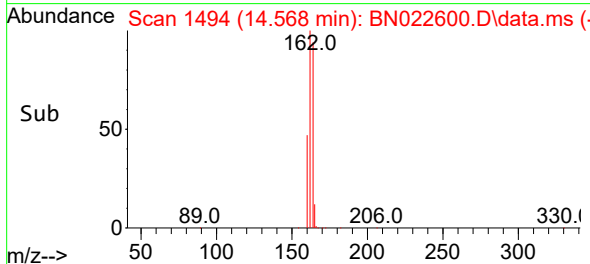
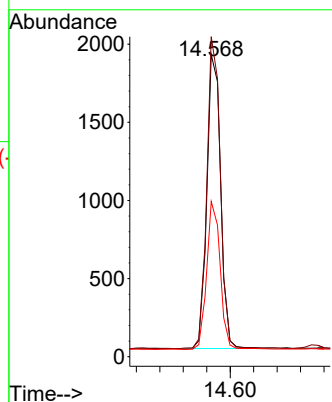
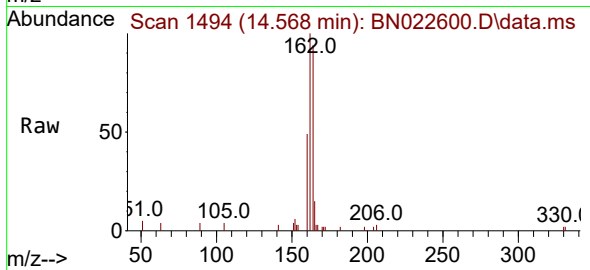
Tgt Ion:164 Resp: 3078

Ion Ratio Lower Upper

164 100

162 105.9 84.3 126.5

160 51.4 40.6 60.8



#14

2,4,6-Tribromophenol

Concen: 0.283 ng

RT: 16.084 min Scan# 1631

Delta R.T. 0.012 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

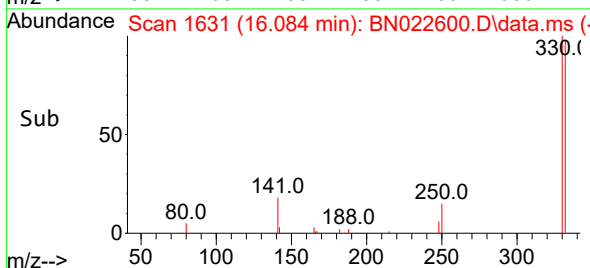
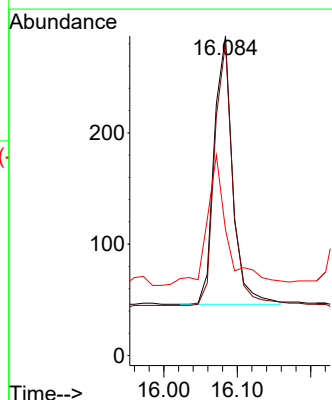
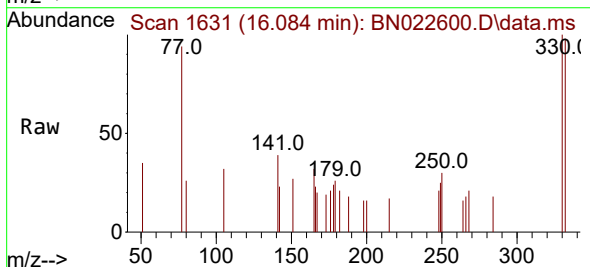
Tgt Ion:330 Resp: 421

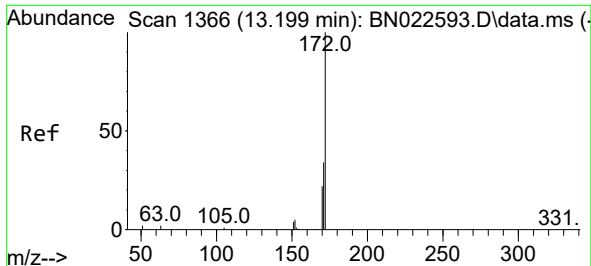
Ion Ratio Lower Upper

330 100

332 96.4 77.5 116.3

141 54.4 33.3 49.9#

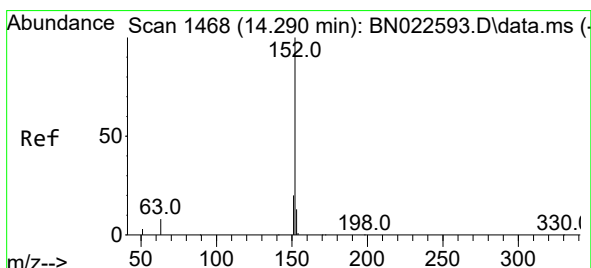
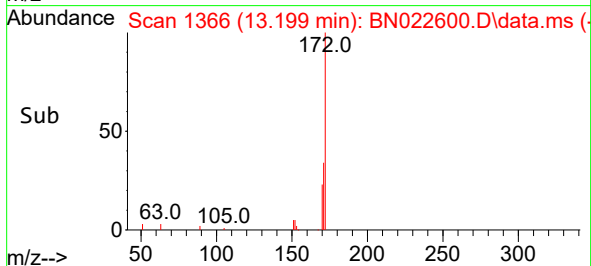
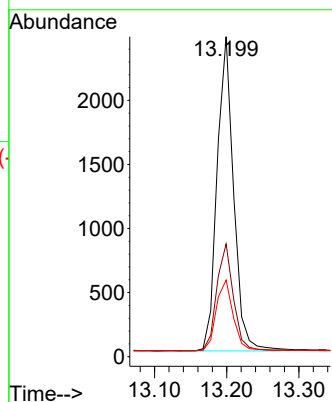
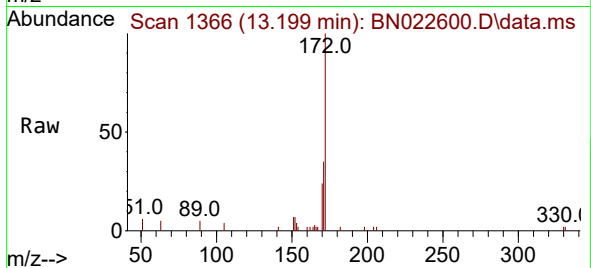




#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 13.199 min Scan# 1366
Delta R.T. -0.000 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

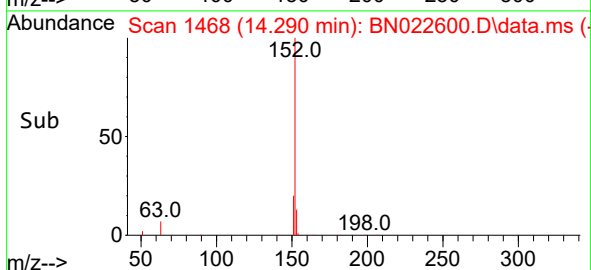
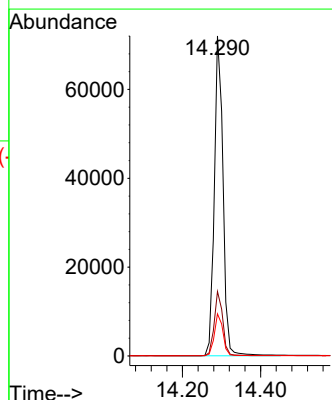
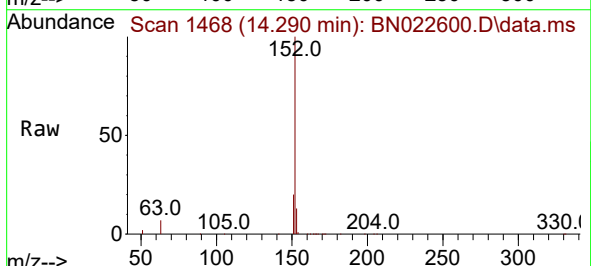
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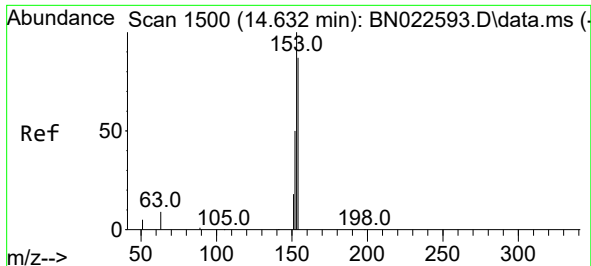
Tgt Ion:172 Resp: 3897
Ion Ratio Lower Upper
172 100
171 35.2 28.0 42.0
170 23.9 18.6 28.0



#16
Acenaphthylene
Concen: 7.865 ng
RT: 14.290 min Scan# 1468
Delta R.T. -0.000 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

Tgt Ion:152 Resp: 111441
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.8
153 13.0 10.2 15.4

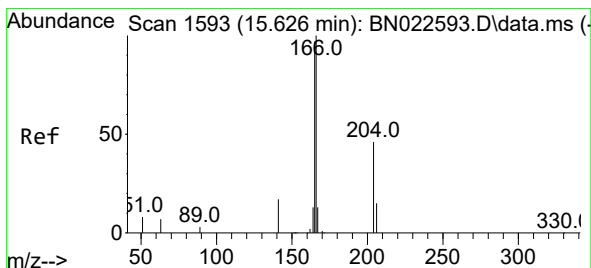
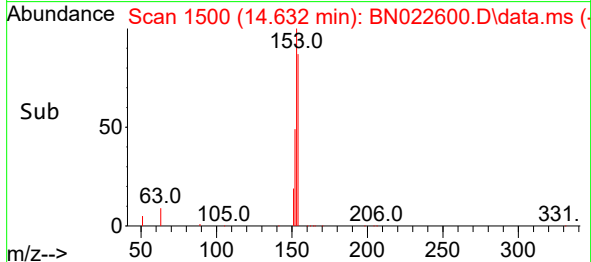
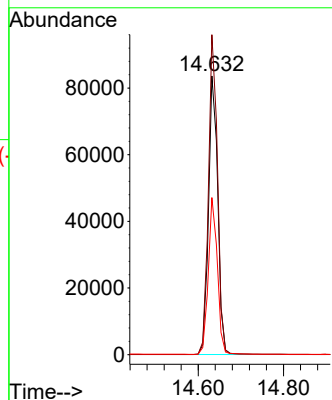
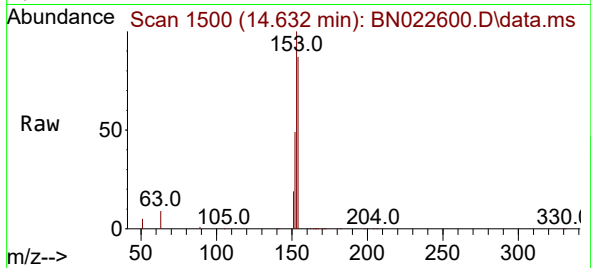




#17
Acenaphthene
Concen: 12.898 ng
RT: 14.632 min Scan# 1500
Delta R.T. -0.000 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

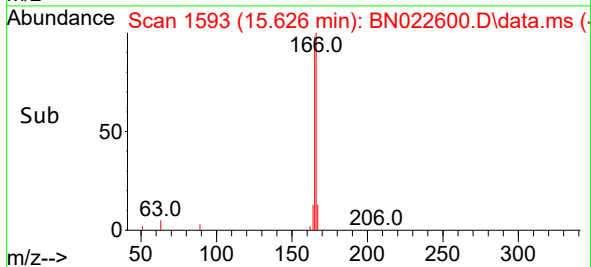
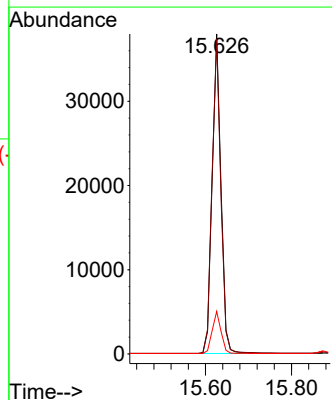
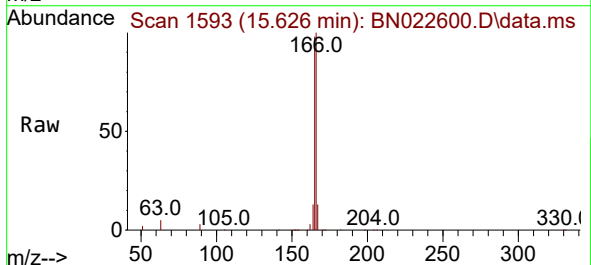
Instrument :
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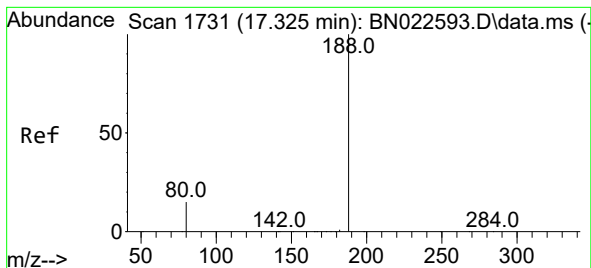
Tgt Ion:154 Resp: 125271
Ion Ratio Lower Upper
154 100
153 113.4 92.2 138.2
152 55.3 45.4 68.0



#18
Fluorene
Concen: 4.232 ng
RT: 15.626 min Scan# 1593
Delta R.T. -0.000 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

Tgt Ion:166 Resp: 55670
Ion Ratio Lower Upper
166 100
165 99.3 78.6 117.8
167 13.0 10.2 15.4





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.325 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

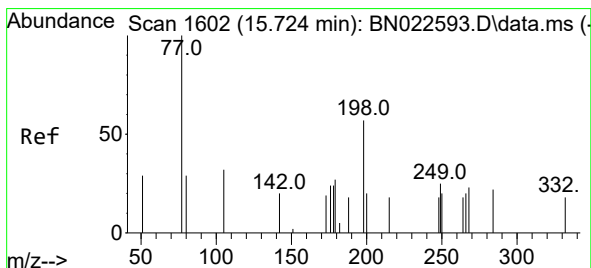
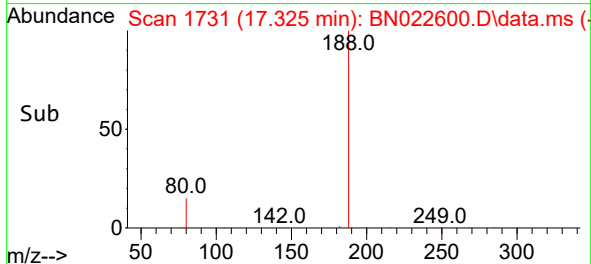
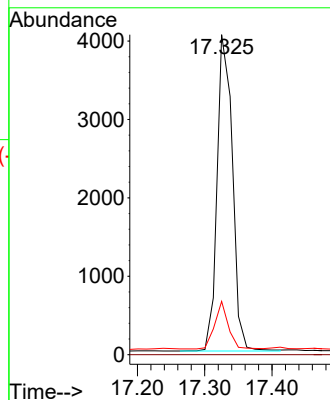
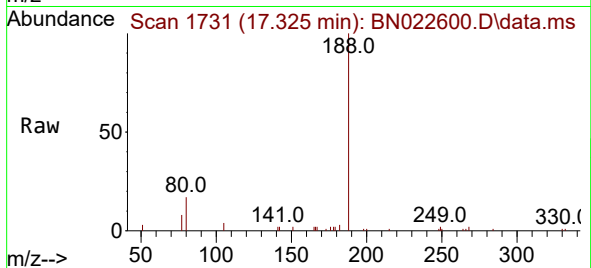
Tgt Ion:188 Resp: 6351

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.7 13.1 19.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.270 ng

RT: 15.749 min Scan# 1604

Delta R.T. 0.025 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

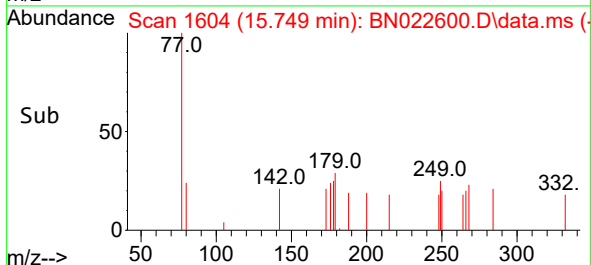
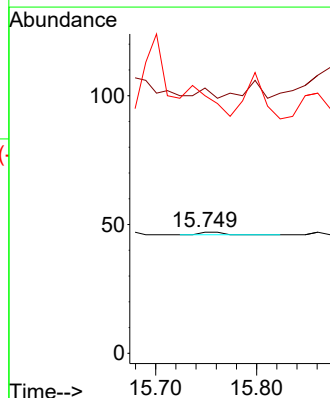
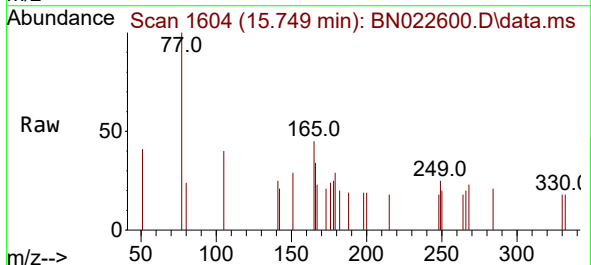
Tgt Ion:198 Resp: 1

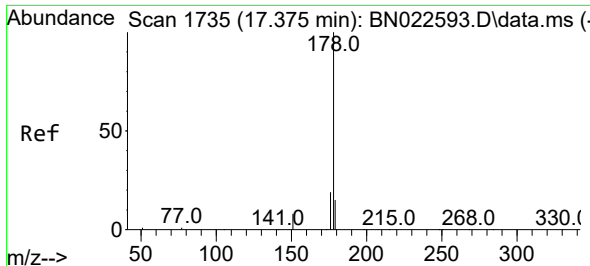
Ion Ratio Lower Upper

198 100

51 219.1 78.7 118.1#

105 212.8 68.5 102.7#

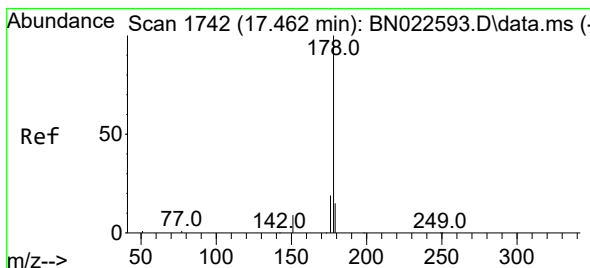
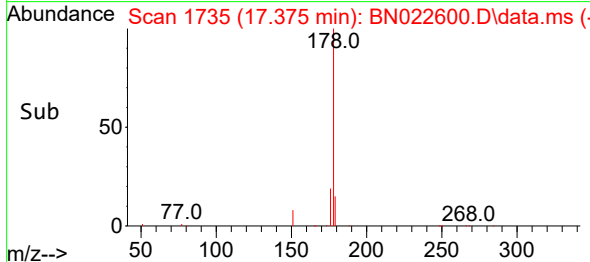
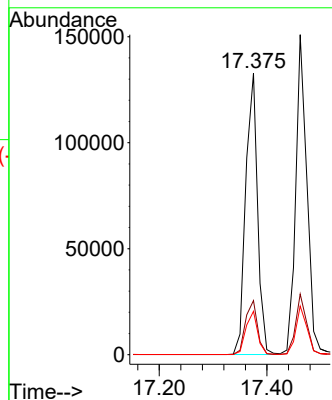
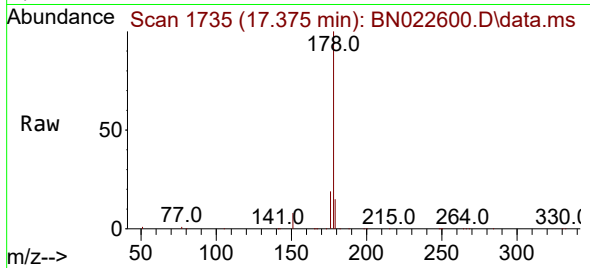




#25
Phenanthrene
Concen: 9.905 ng
RT: 17.375 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

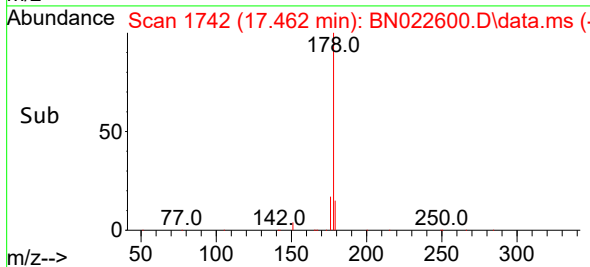
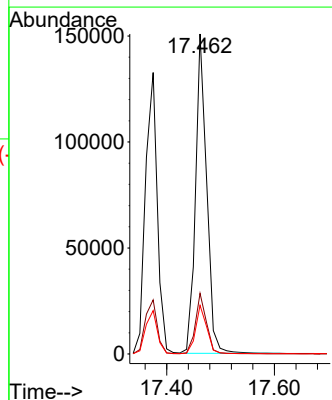
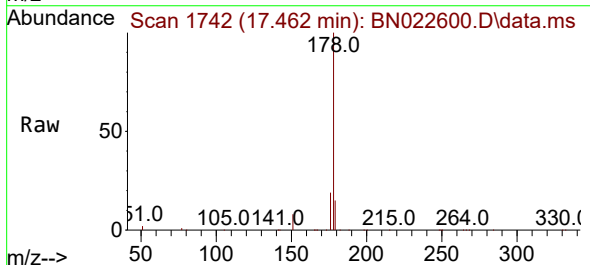
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

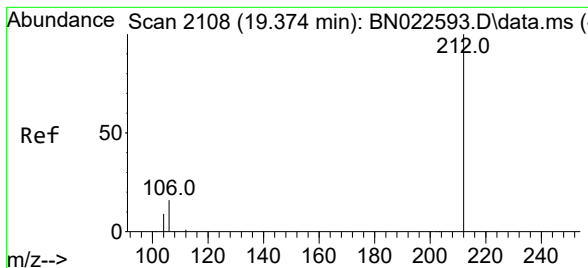
Tgt Ion:178 Resp: 202790
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 15.4 12.4 18.6



#26
Anthracene
Concen: 12.426 ng
RT: 17.462 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

Tgt Ion:178 Resp: 217280
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.4
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.336 ng

RT: 19.373 min Scan# 2108

Delta R.T. -0.000 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

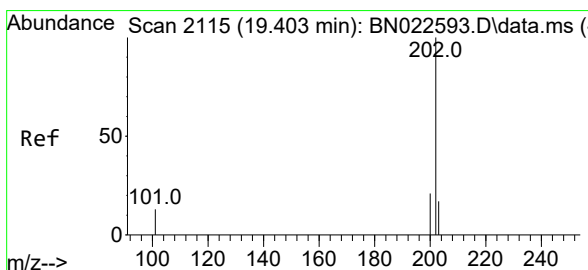
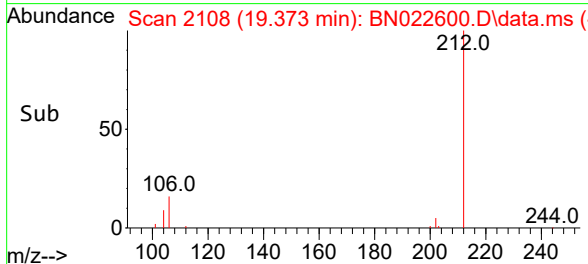
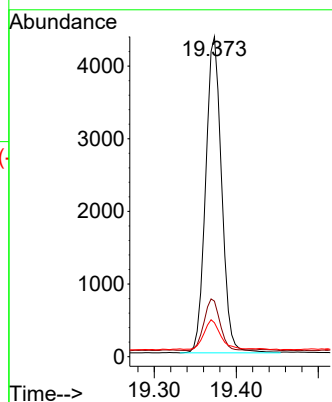
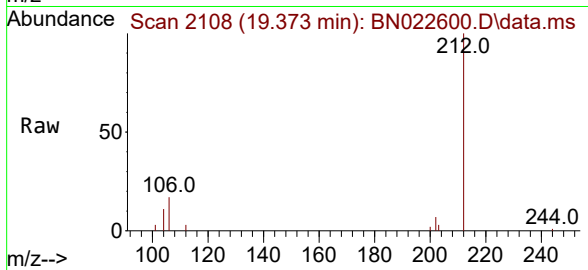
Tgt Ion:212 Resp: 5883

Ion Ratio Lower Upper

212 100

106 16.3 13.0 19.6

104 9.6 7.4 11.2



#28

Fluoranthene

Concen: 4.870 ng

RT: 19.403 min Scan# 2115

Delta R.T. -0.000 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

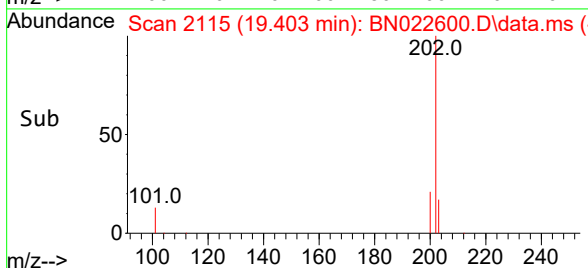
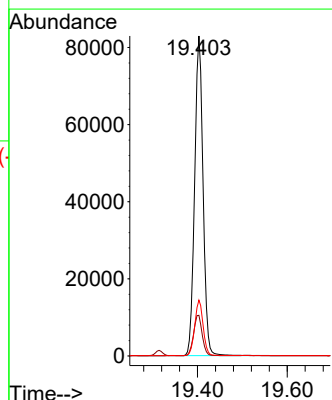
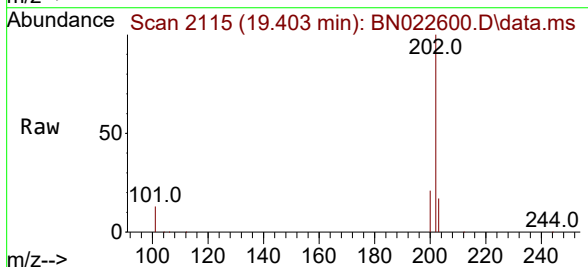
Tgt Ion:202 Resp: 108079

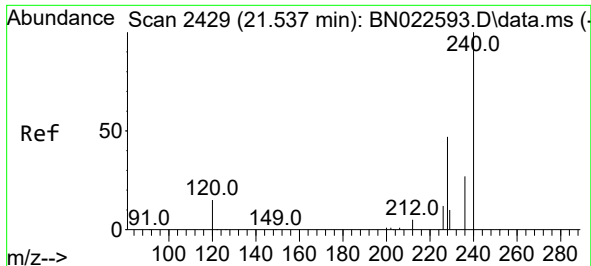
Ion Ratio Lower Upper

202 100

101 12.9 10.5 15.7

203 17.3 13.5 20.3

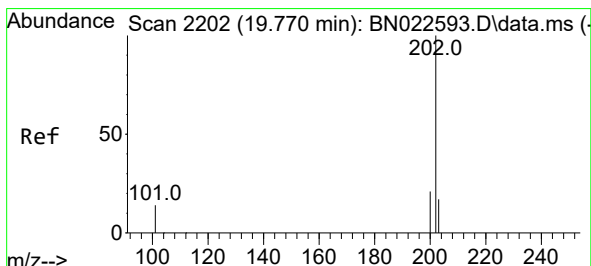
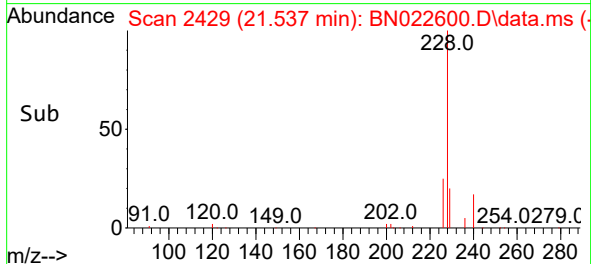
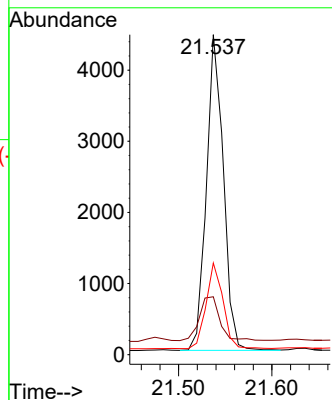
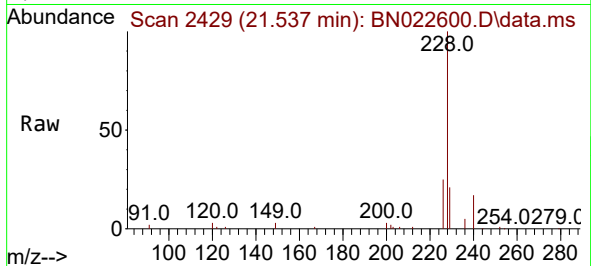




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.537 min Scan# 2429
Delta R.T. -0.000 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

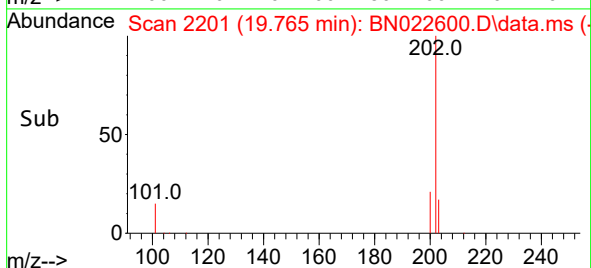
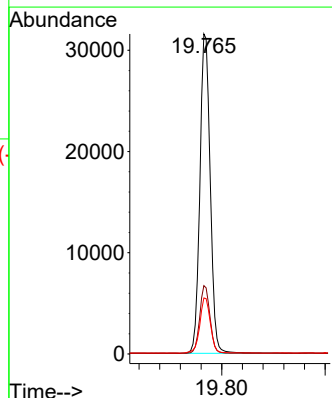
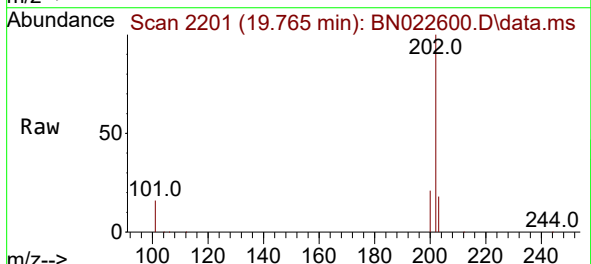
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

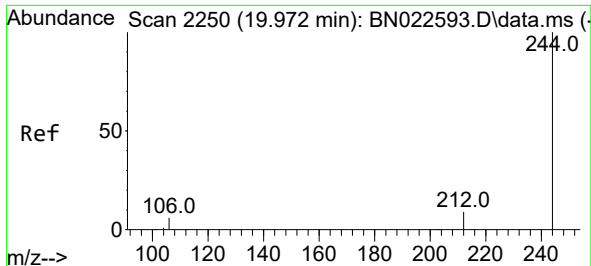
Tgt Ion:240 Resp: 5607
Ion Ratio Lower Upper
240 100
120 18.1 15.0 22.4
236 28.6 23.1 34.7



#30
Pyrene
Concen: 1.907 ng
RT: 19.765 min Scan# 2201
Delta R.T. -0.004 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

Tgt Ion:202 Resp: 43564
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 17.6 14.2 21.2

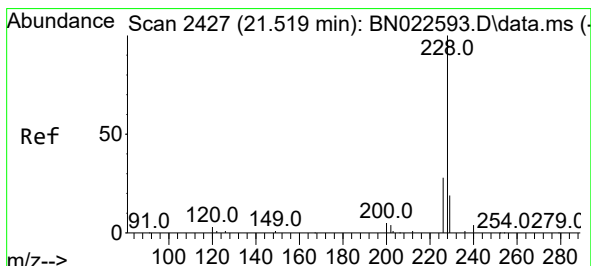
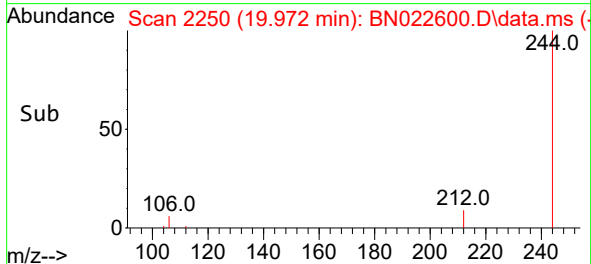
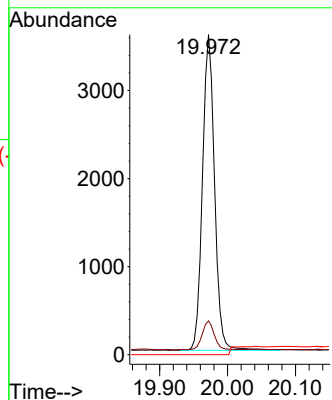
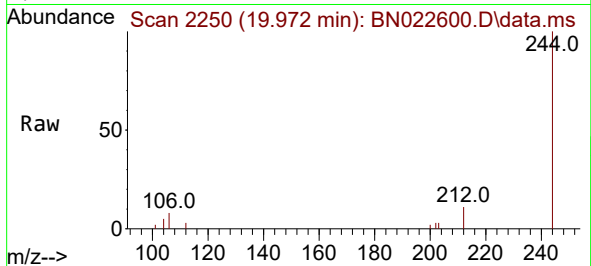




#31
 Terphenyl-d14
 Concen: 0.340 ng
 RT: 19.972 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN022600.D
 Acq: 10 Nov 2022 14:43

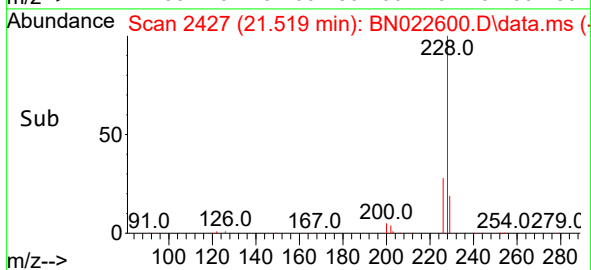
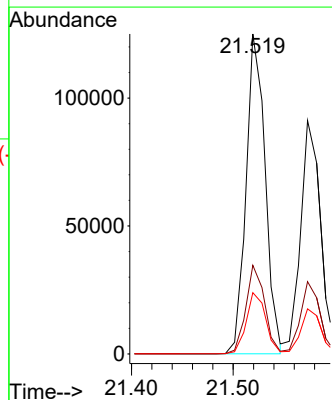
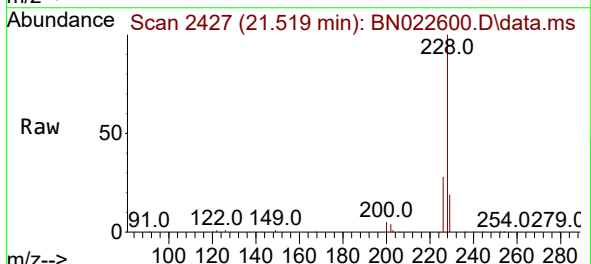
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

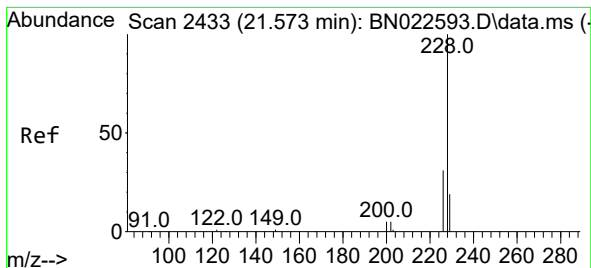
Tgt Ion:244 Resp: 5909
 Ion Ratio Lower Upper
 244 100
 212 10.5 8.0 12.0
 122 0.0 0.0 0.0



#32
 Benzo(a)anthracene
 Concen: 7.906 ng
 RT: 21.519 min Scan# 2427
 Delta R.T. -0.000 min
 Lab File: BN022600.D
 Acq: 10 Nov 2022 14:43

Tgt Ion:228 Resp: 163004
 Ion Ratio Lower Upper
 228 100
 226 27.7 23.0 34.6
 229 19.1 16.3 24.5





#33

Chrysene

Concen: 5.828 ng

RT: 21.573 min Scan# 2433

Delta R.T. -0.000 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

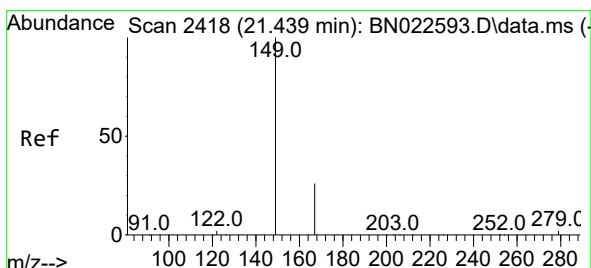
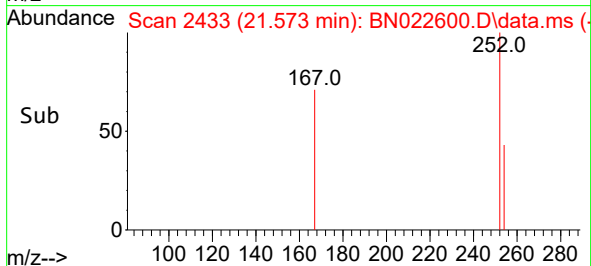
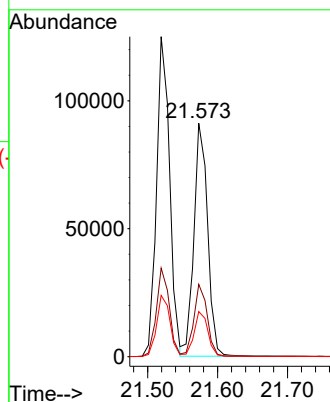
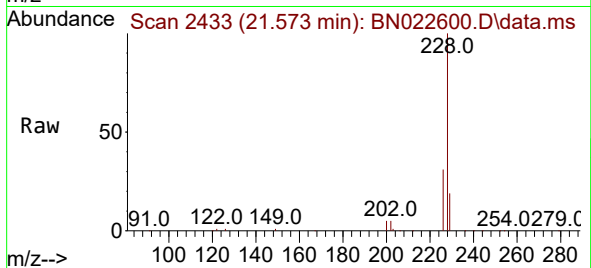
Tgt Ion:228 Resp: 123872

Ion Ratio Lower Upper

228 100

226 31.0 25.3 37.9

229 19.4 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.240 ng

RT: 21.439 min Scan# 2418

Delta R.T. -0.000 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

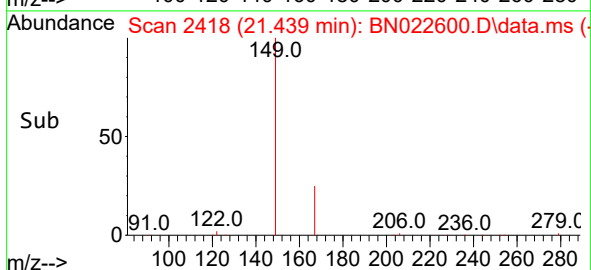
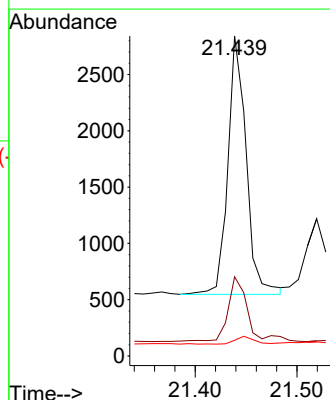
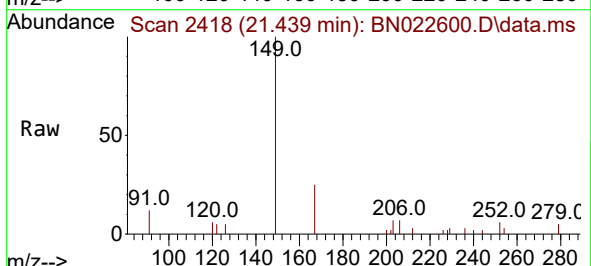
Tgt Ion:149 Resp: 2861

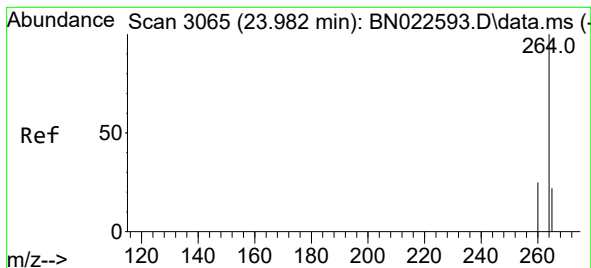
Ion Ratio Lower Upper

149 100

167 27.1 20.8 31.2

279 3.0 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.982 min Scan# 3065

Delta R.T. -0.000 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

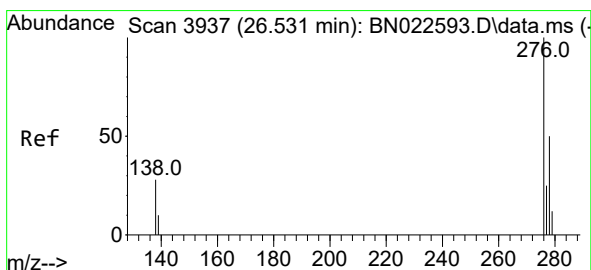
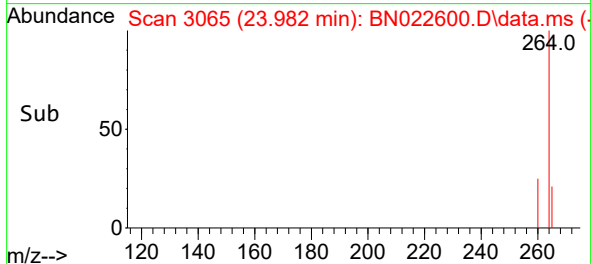
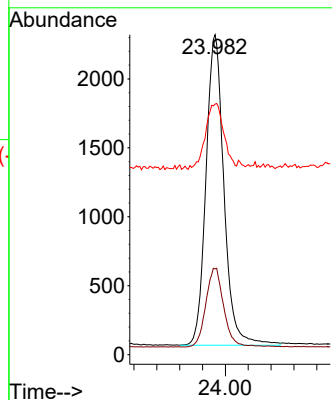
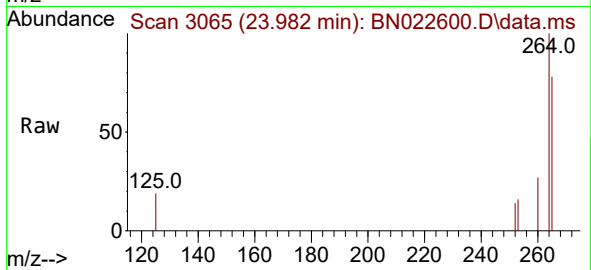
Tgt Ion:264 Resp: 4920

Ion Ratio Lower Upper

264 100

260 26.8 21.2 31.8

265 78.3 57.5 86.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 6.326 ng

RT: 26.528 min Scan# 3936

Delta R.T. -0.003 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

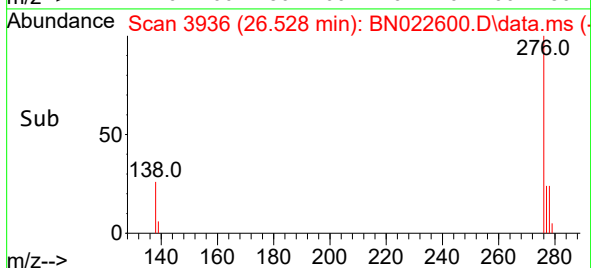
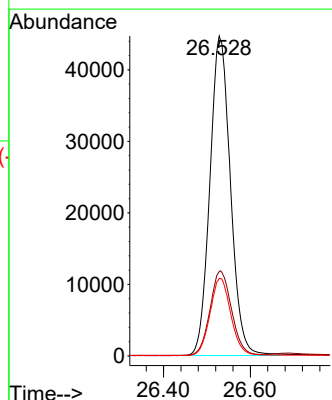
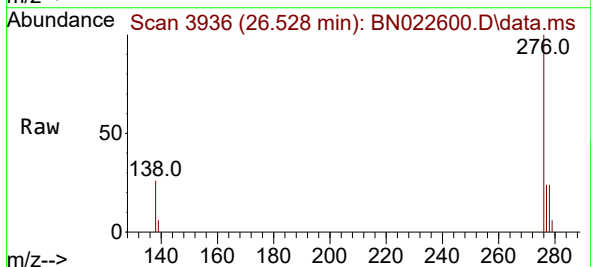
Tgt Ion:276 Resp: 147044

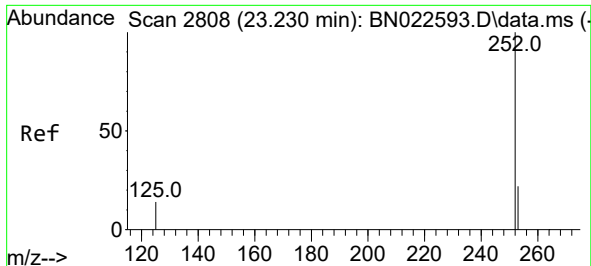
Ion Ratio Lower Upper

276 100

138 27.6 24.3 36.5

277 24.4 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 1.475 ng

RT: 23.227 min Scan# 2807

Delta R.T. -0.003 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

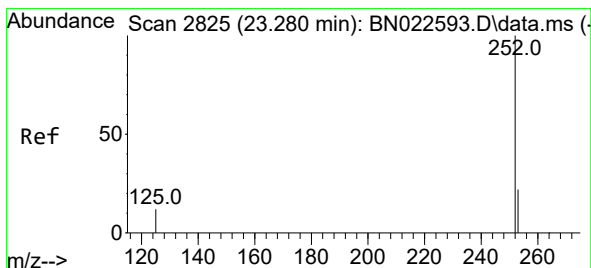
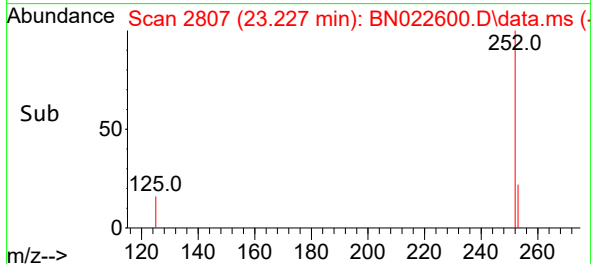
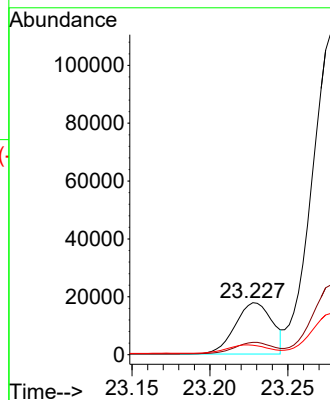
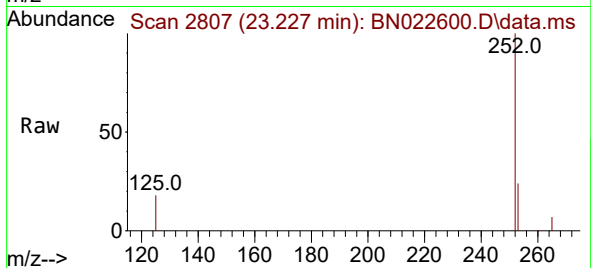
Tgt Ion:252 Resp: 29372

Ion Ratio Lower Upper

252 100

253 23.7 21.5 32.3

125 18.2 15.5 23.3



#38

Benzo(k)fluoranthene

Concen: 9.841 ng

RT: 23.277 min Scan# 2824

Delta R.T. -0.003 min

Lab File: BN022600.D

Acq: 10 Nov 2022 14:43

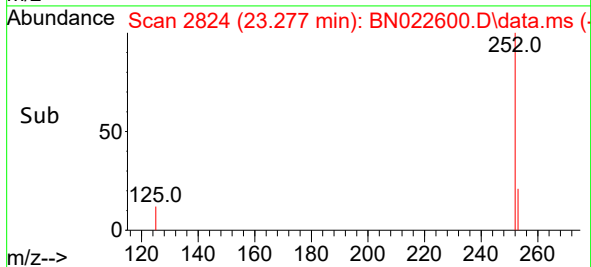
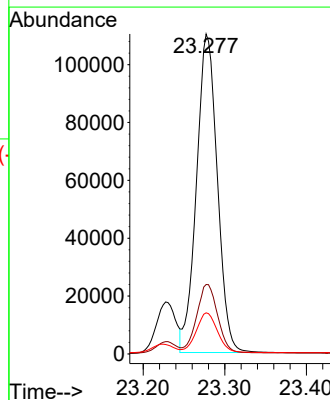
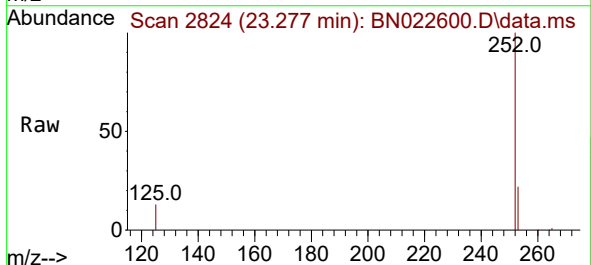
Tgt Ion:252 Resp: 195559

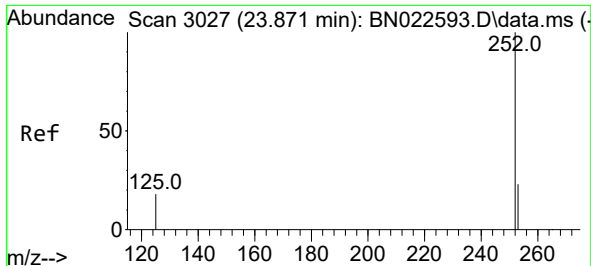
Ion Ratio Lower Upper

252 100

253 21.7 21.7 32.5

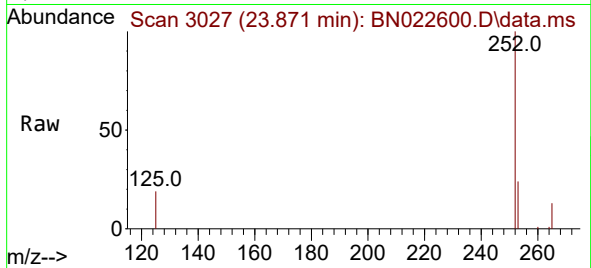
125 12.9 14.5 21.7#



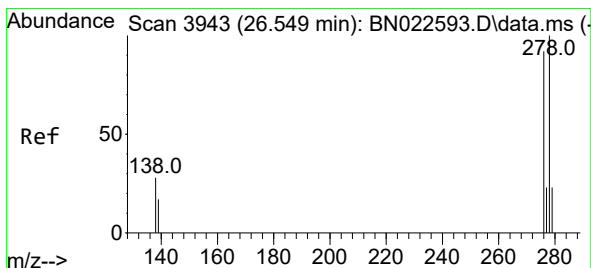
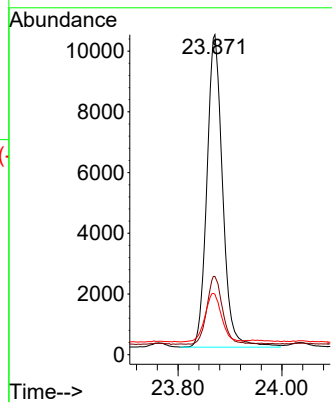
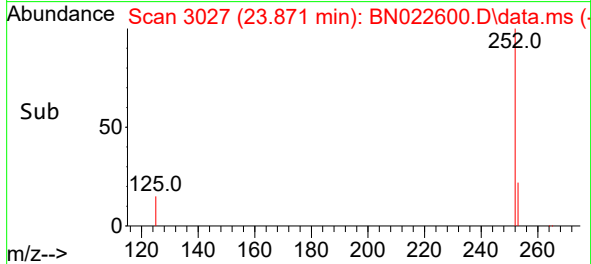


#39
Benzo(a)pyrene
Concen: 1.336 ng
RT: 23.871 min Scan# 3027
Delta R.T. -0.000 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43

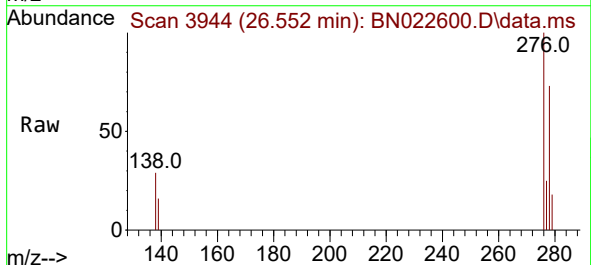
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL



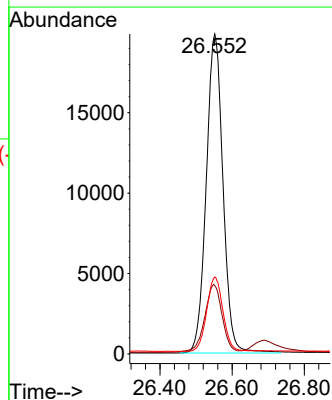
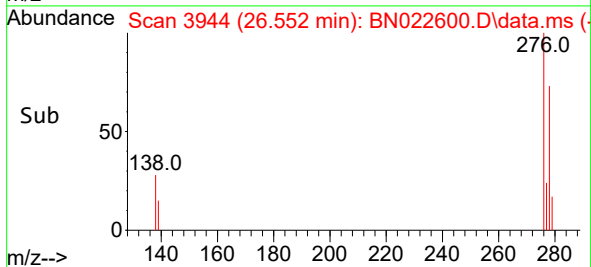
Tgt Ion:252 Resp: 21619
Ion Ratio Lower Upper
252 100
253 24.4 24.7 37.1#
125 18.9 21.3 31.9#

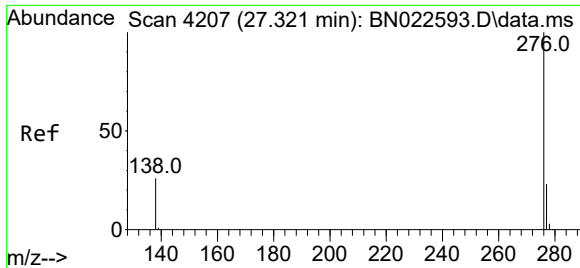


#40
Dibenzo(a,h)anthracene
Concen: 3.419 ng
RT: 26.552 min Scan# 3944
Delta R.T. 0.003 min
Lab File: BN022600.D
Acq: 10 Nov 2022 14:43



Tgt Ion:278 Resp: 63908
Ion Ratio Lower Upper
278 100
139 21.3 19.1 28.7
279 24.1 23.7 35.5





#41
 Benzo(g,h,i)perylene
 Concen: 2.345 ng
 RT: 27.321 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: BN022600.D
 Acq: 10 Nov 2022 14:43

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

Tgt Ion:276 Resp: 46137
 Ion Ratio Lower Upper
 276 100
 277 23.9 20.6 31.0
 138 27.1 23.0 34.4

