

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110823\
 Data File : BN028498.D
 Acq On : 08 Nov 2023 13:40
 Operator : MA/JU
 Sample : 05047-13
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

Quant Time: Nov 08 14:11:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 08 00:27:19 2023
 Response via : Initial Calibration

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

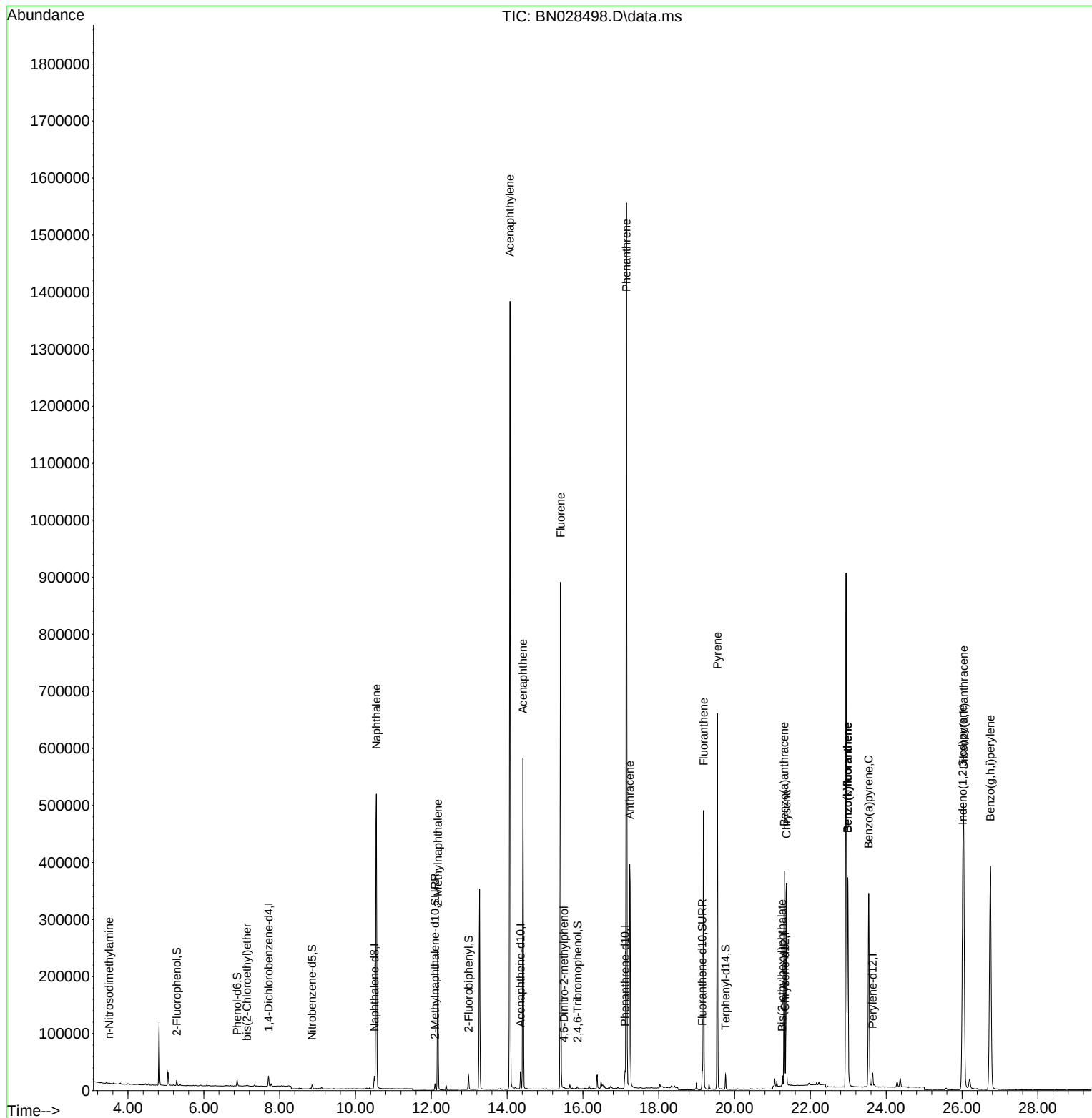
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	8661	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	28119	0.400	ng	#-0.01
13) Acenaphthene-d10	14.353	164	16851	0.400	ng	-0.01
19) Phenanthrene-d10	17.109	188	38101	0.400	ng	0.00
29) Chrysene-d12	21.329	240	32209	0.400	ng	0.00
35) Perylene-d12	23.640	264	31623	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	7631	0.295	ng	0.00
5) Phenol-d6	6.879	99	10482	0.315	ng	0.00
8) Nitrobenzene-d5	8.854	82	6156	0.245	ng	-0.01
11) 2-Methylnaphthalene-d10	12.098	152	14235	0.292	ng	0.00
14) 2,4,6-Tribromophenol	15.856	330	2391	0.253	ng	0.00
15) 2-Fluorobiphenyl	12.985	172	19960	0.270	ng	0.00
27) Fluoranthene-d10	19.148	212	37144	0.319	ng	0.00
31) Terphenyl-d14	19.761	244	24874	0.291	ng	0.00
Target Compounds						
						Qvalue
3) n-Nitrosodimethylamine	3.507	42	321	0.027	ng	# 79
6) bis(2-Chloroethyl)ether	7.139	93	1002	0.036	ng	# 88
9) Naphthalene	10.552	128	695294	7.920	ng	99
12) 2-Methylnaphthalene	12.170	142	173838	2.890	ng	99
16) Acenaphthylene	14.075	152	1388696	15.669	ng	100
17) Acenaphthene	14.418	154	273178	4.624	ng	98
18) Fluorene	15.412	166	569020	6.813	ng	100
20) 4,6-Dinitro-2-methylph...	15.497	198	7	0.180	ng	# 1
25) Phenanthrene	17.146	178	1518916	12.020	ng	100
26) Anthracene	17.233	178	468867	4.049	ng	100
28) Fluoranthene	19.181	202	427918	2.825	ng	100
30) Pyrene	19.548	202	582898	3.800	ng	99
32) Benzo(a)anthracene	21.311	228	302930	2.250	ng	100
33) Chrysene	21.365	228	311521	2.317	ng	99
34) Bis(2-ethylhexyl)phtha...	21.257	149	18128	0.218	ng	99
36) Indeno(1,2,3-cd)pyrene	26.017	276	520820	4.083	ng	95
37) Benzo(b)fluoranthene	22.985	252	447913	3.437	ng	99
38) Benzo(k)fluoranthene	22.985	252	441011	3.467	ng	97
39) Benzo(a)pyrene	23.538	252	482914	4.336	ng	# 94
40) Dibenzo(a,h)anthracene	26.041	278	654570	6.583	ng	# 92
41) Benzo(g,h,i)perylene	26.748	276	817683	7.423	ng	98

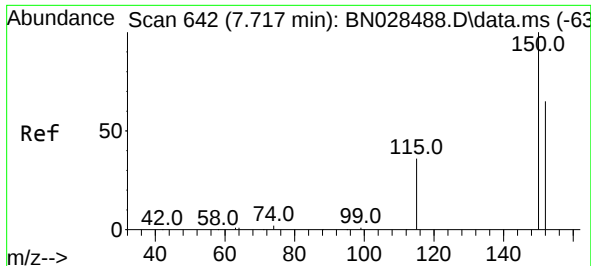
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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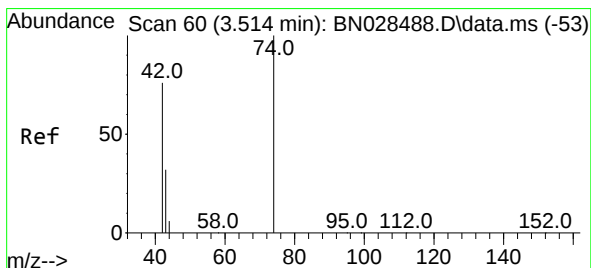
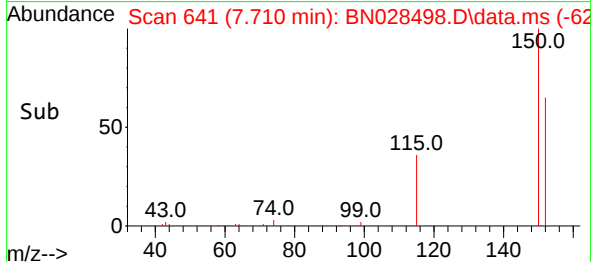
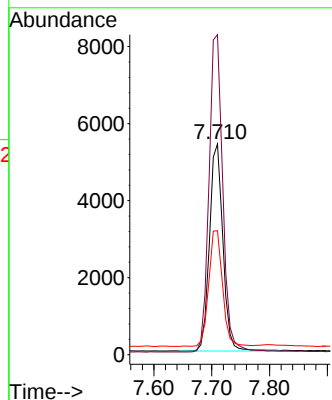
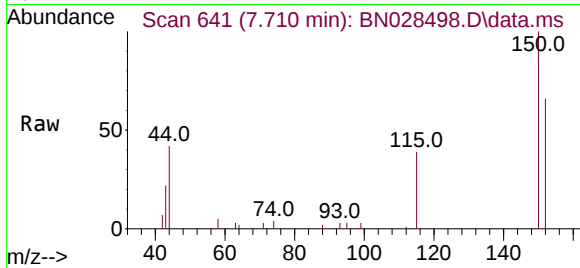




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

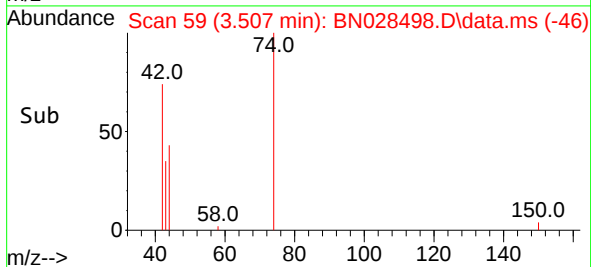
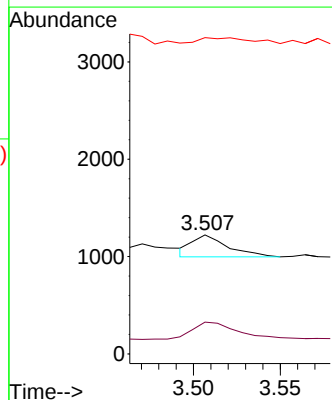
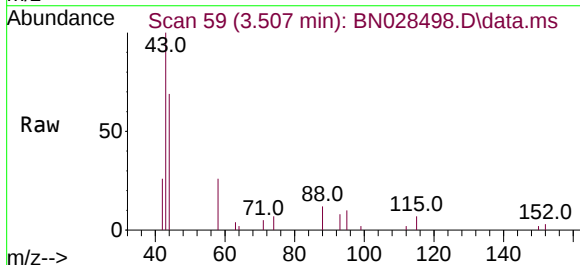
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

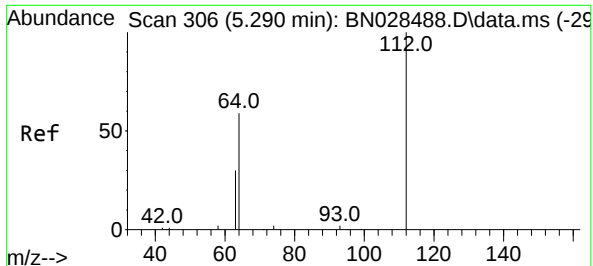
Tgt Ion:152 Resp: 8661
Ion Ratio Lower Upper
152 100
150 151.9 122.5 183.7
115 58.8 47.5 71.3



#3
n-Nitrosodimethylamine
Concen: 0.027 ng
RT: 3.507 min Scan# 59
Delta R.T. -0.007 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

Tgt Ion: 42 Resp: 321
Ion Ratio Lower Upper
42 100
74 106.5 100.8 151.2
44 37.7 7.3 10.9

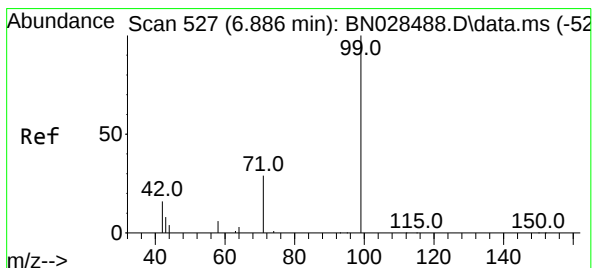
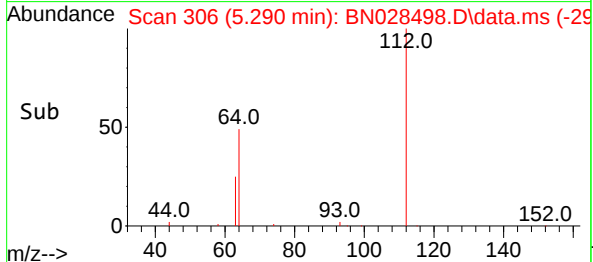
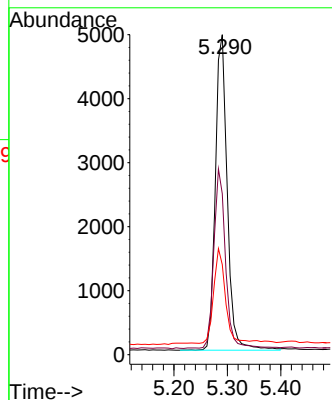
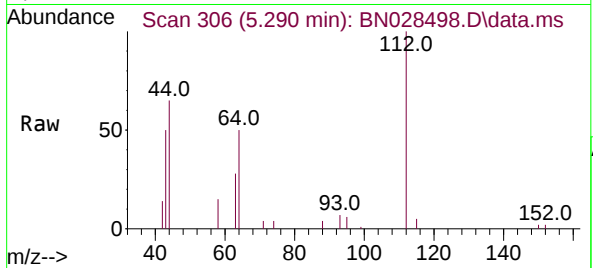




#4
2-Fluorophenol
Concen: 0.295 ng
RT: 5.290 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

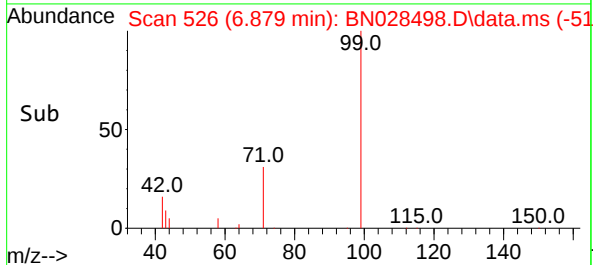
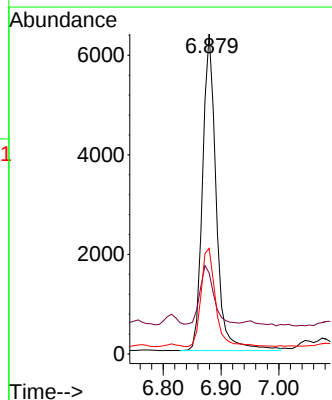
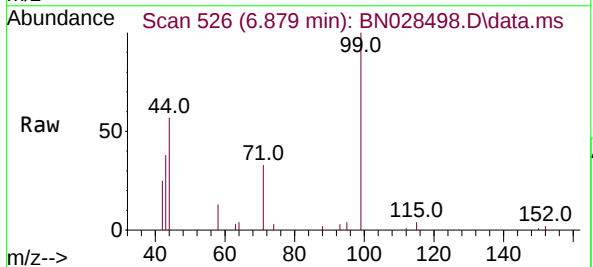
Instrument :
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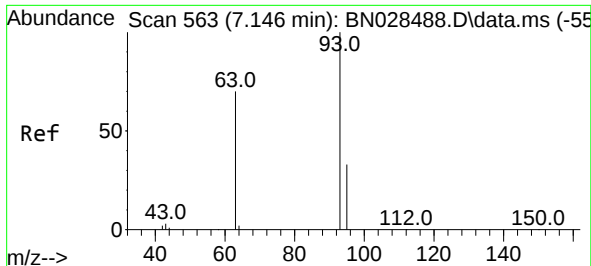
Tgt Ion:112 Resp: 7631
Ion Ratio Lower Upper
112 100
64 56.3 44.6 67.0
63 29.3 23.3 34.9



#5
Phenol-d6
Concen: 0.315 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.007 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

Tgt Ion: 99 Resp: 10482
Ion Ratio Lower Upper
99 100
42 19.6 15.8 23.8
71 33.0 25.1 37.7

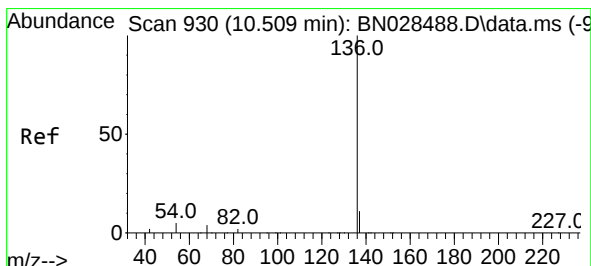
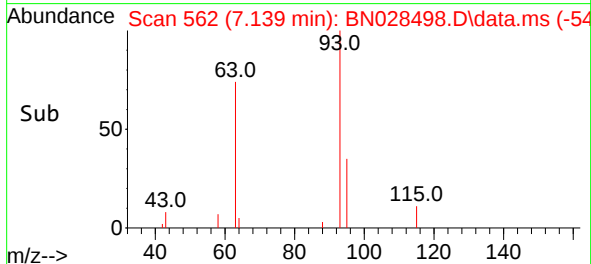
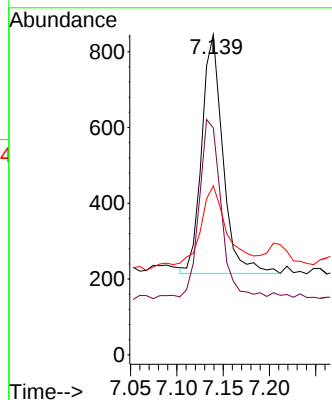
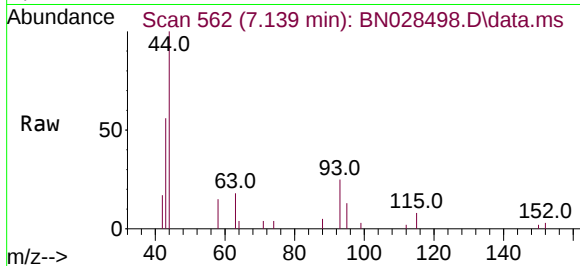




#6
bis(2-Chloroethyl)ether
Concen: 0.036 ng
RT: 7.139 min Scan# 501
Delta R.T. -0.007 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

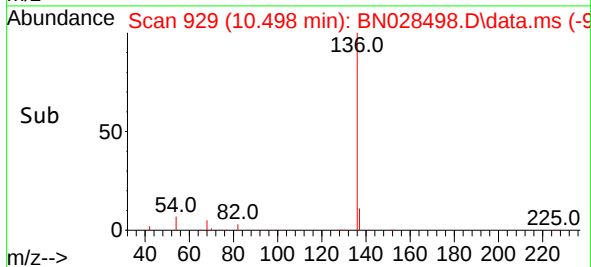
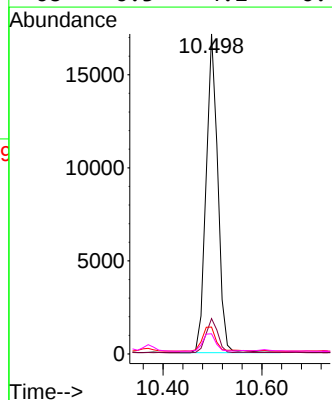
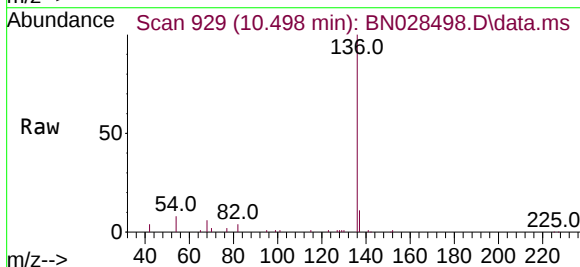
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

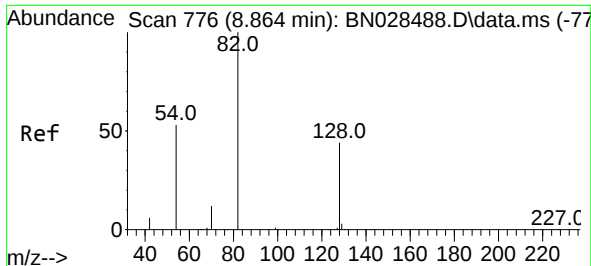
Tgt Ion: 93 Resp: 1002
Ion Ratio Lower Upper
93 100
63 79.5 60.9 91.3
95 49.5 26.2 39.2#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

Tgt Ion: 136 Resp: 28119
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.4
54 8.4 5.1 7.7#
68 6.3 4.2 6.4

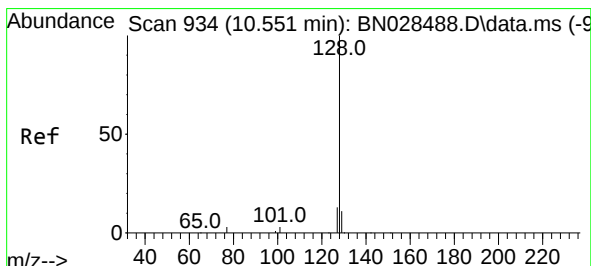
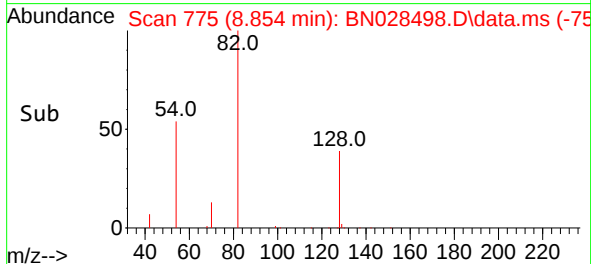
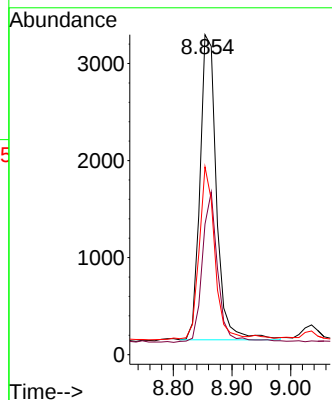
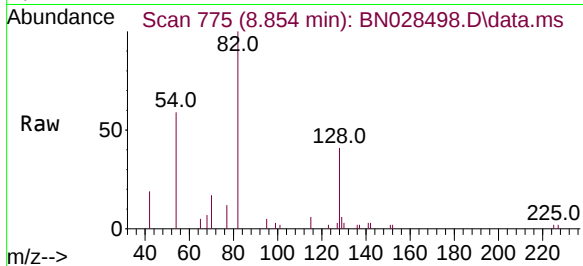




#8
Nitrobenzene-d5
Concen: 0.245 ng
RT: 8.854 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

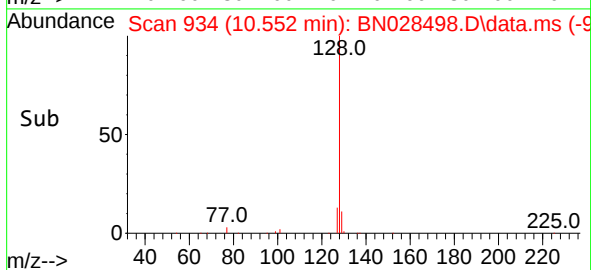
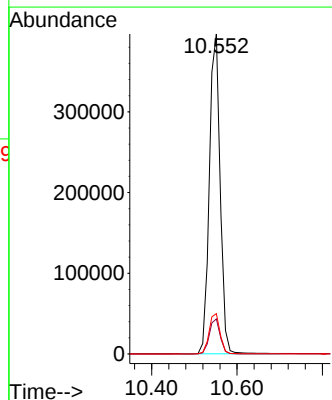
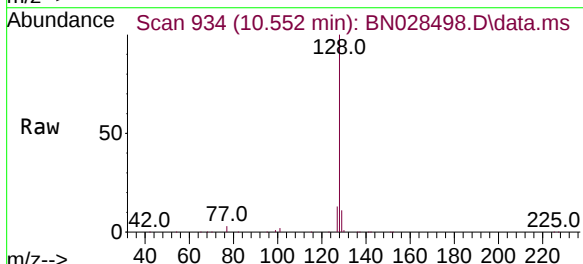
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

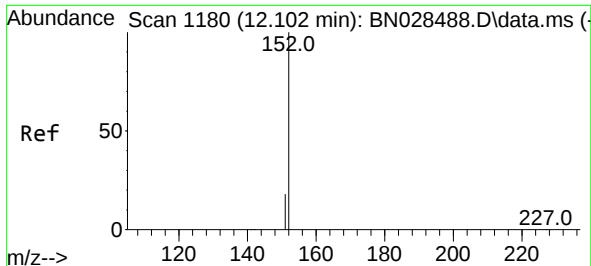
Tgt Ion: 82 Resp: 6156
Ion Ratio Lower Upper
82 100
128 40.8 36.5 54.7
54 58.7 43.8 65.8



#9
Naphthalene
Concen: 7.920 ng
RT: 10.552 min Scan# 934
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

Tgt Ion: 128 Resp: 695294
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 12.6 10.6 15.8

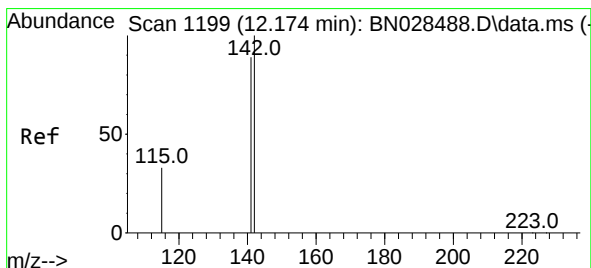
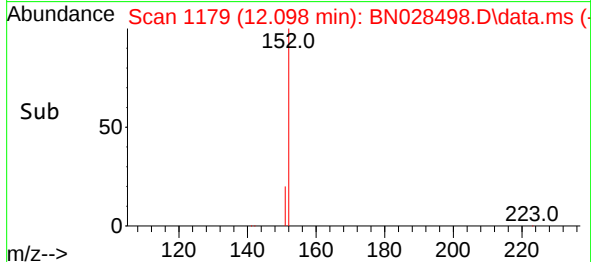
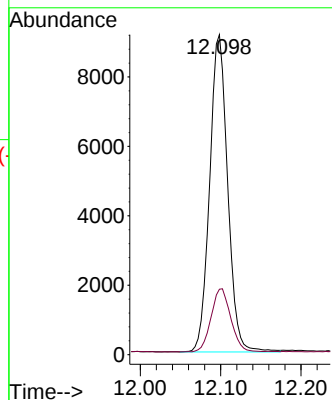
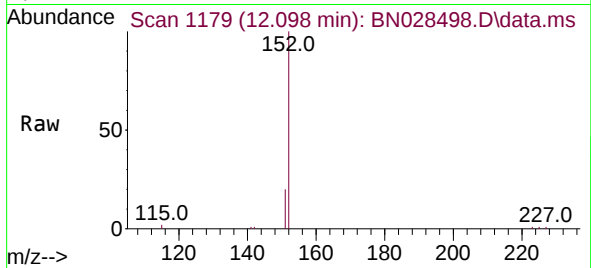




#11
2-Methylnaphthalene-d10
Concen: 0.292 ng
RT: 12.098 min Scan# 1179
Delta R.T. -0.004 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

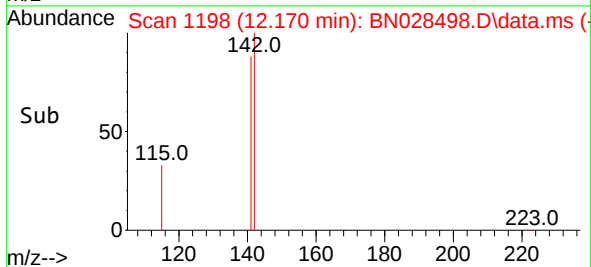
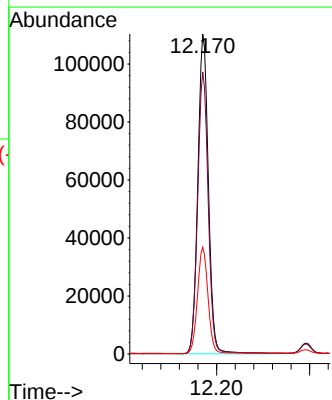
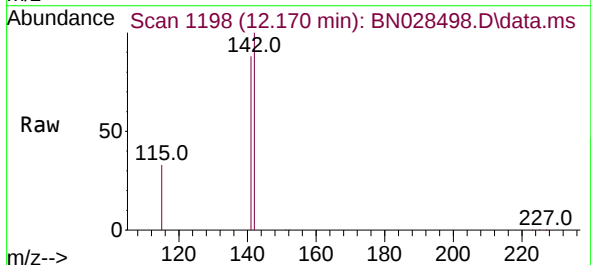
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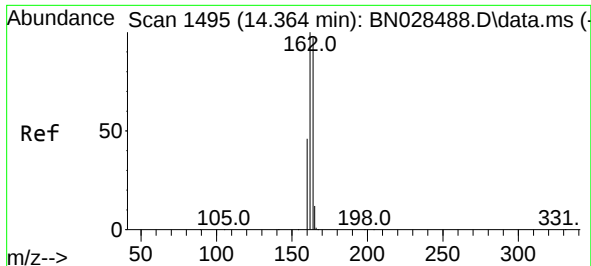
Tgt Ion:152 Resp: 14235
Ion Ratio Lower Upper
152 100
151 21.9 16.1 24.1



#12
2-Methylnaphthalene
Concen: 2.890 ng
RT: 12.170 min Scan# 1198
Delta R.T. -0.004 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

Tgt Ion:142 Resp: 173838
Ion Ratio Lower Upper
142 100
141 88.1 71.3 106.9
115 33.4 27.6 41.4

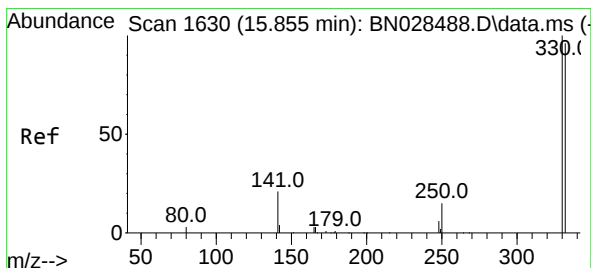
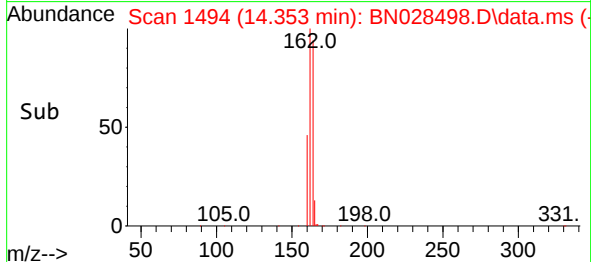
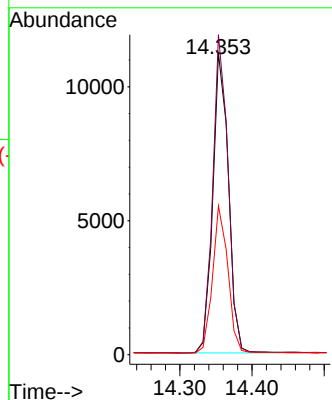
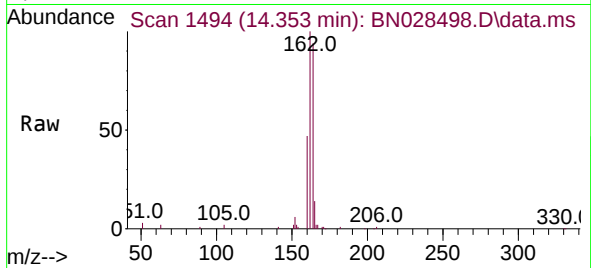




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.353 min Scan# 1494
Delta R.T. -0.011 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

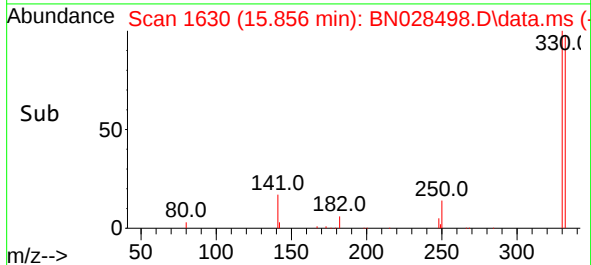
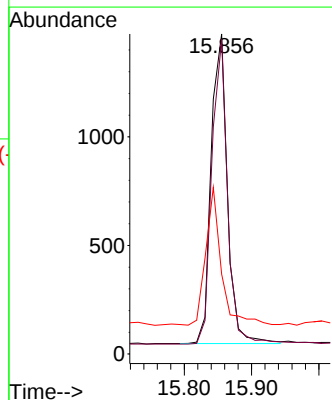
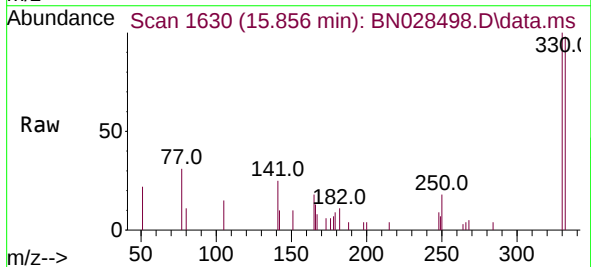
Instrument :
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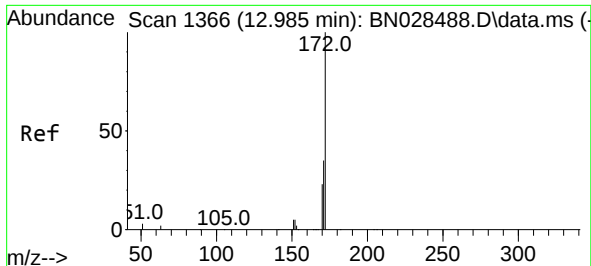
Tgt Ion:164 Resp: 16851
Ion Ratio Lower Upper
164 100
162 106.2 82.5 123.7
160 49.4 38.1 57.1



#14
2,4,6-Tribromophenol
Concen: 0.253 ng
RT: 15.856 min Scan# 1630
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

Tgt Ion:330 Resp: 2391
Ion Ratio Lower Upper
330 100
332 94.7 77.0 115.4
141 41.8 32.6 49.0

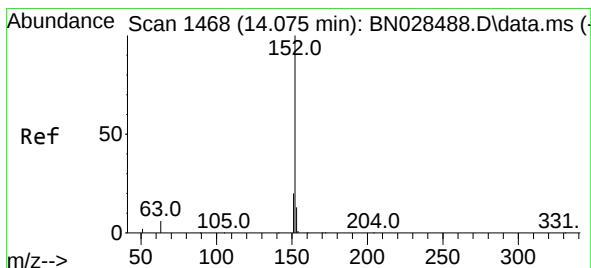
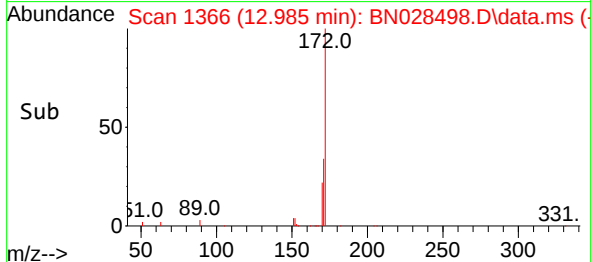
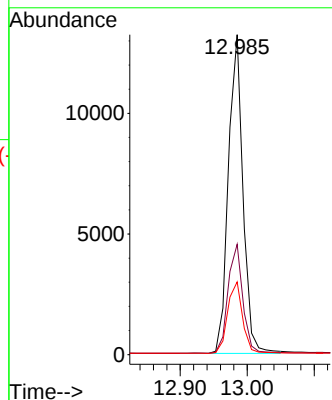
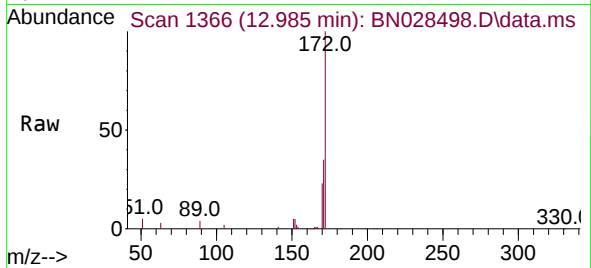




#15
2-Fluorobiphenyl
Concen: 0.270 ng
RT: 12.985 min Scan# 1366
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

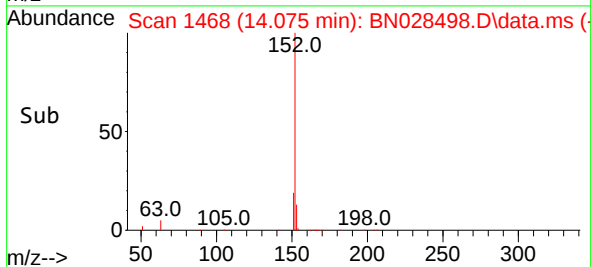
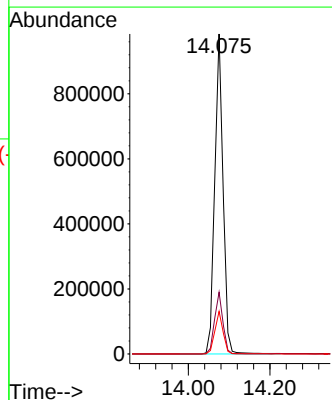
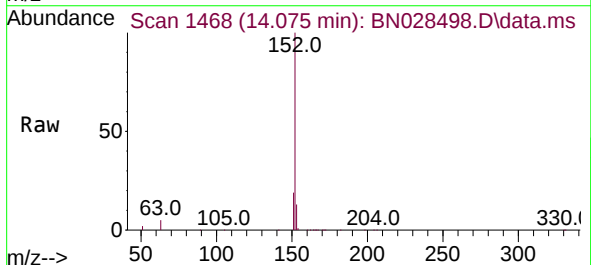
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

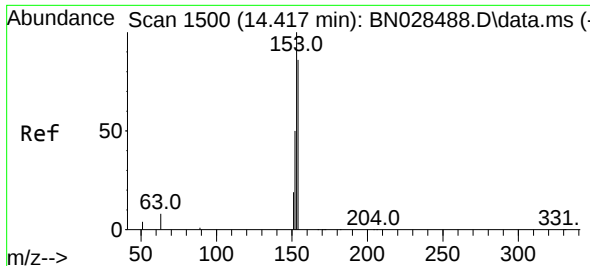
Tgt Ion:172 Resp: 19960
Ion Ratio Lower Upper
172 100
171 34.5 27.9 41.9
170 22.7 18.9 28.3



#16
Acenaphthylene
Concen: 15.669 ng
RT: 14.075 min Scan# 1468
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

Tgt Ion:152 Resp: 1388696
Ion Ratio Lower Upper
152 100
151 19.4 15.4 23.0
153 13.2 10.5 15.7

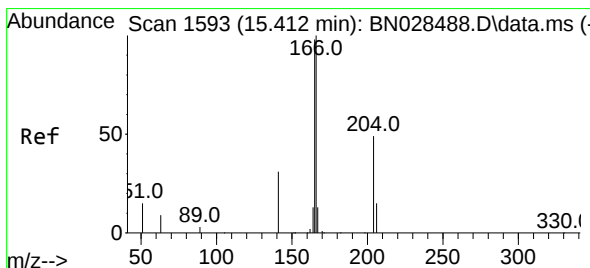
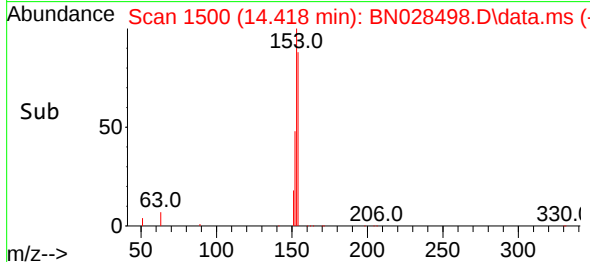
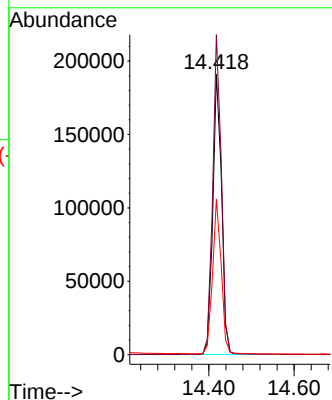
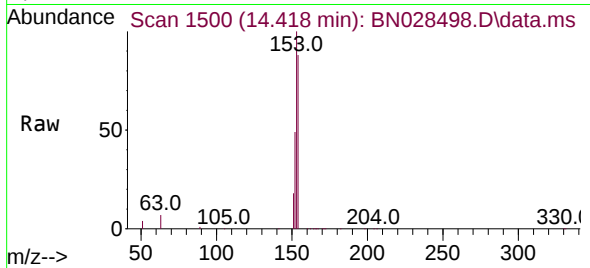




#17
Acenaphthene
Concen: 4.624 ng
RT: 14.418 min Scan# 1500
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

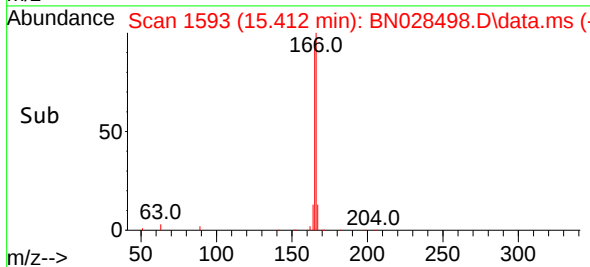
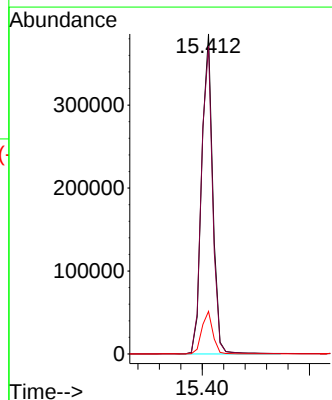
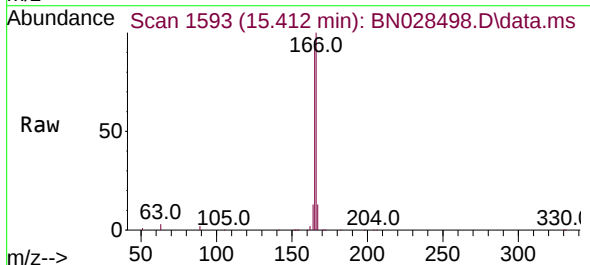
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

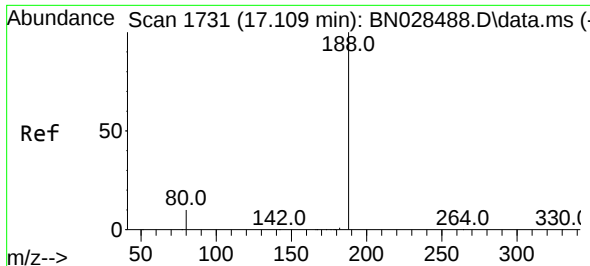
Tgt Ion:154 Resp: 273178
Ion Ratio Lower Upper
154 100
153 113.1 92.0 138.0
152 54.7 45.4 68.0



#18
Fluorene
Concen: 6.813 ng
RT: 15.412 min Scan# 1593
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

Tgt Ion:166 Resp: 569020
Ion Ratio Lower Upper
166 100
165 97.6 78.5 117.7
167 13.2 10.6 16.0

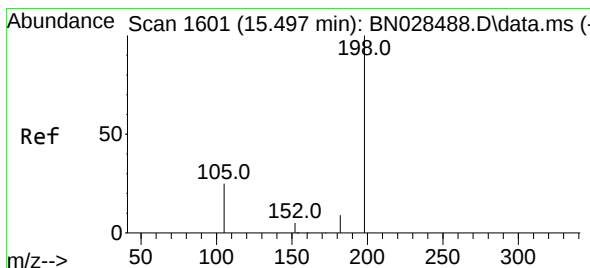
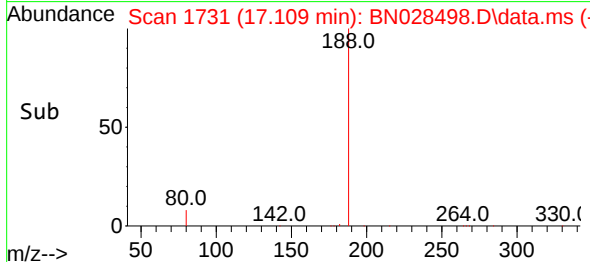
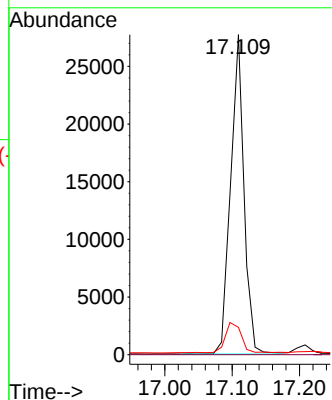
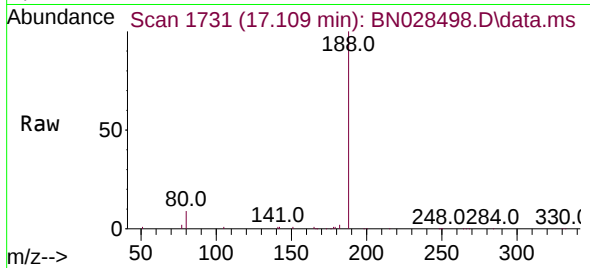




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.109 min Scan# 1731
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

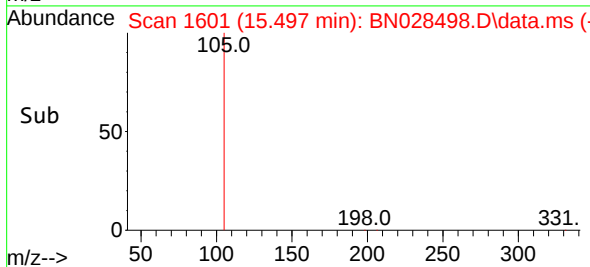
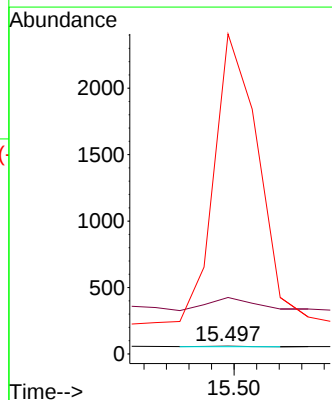
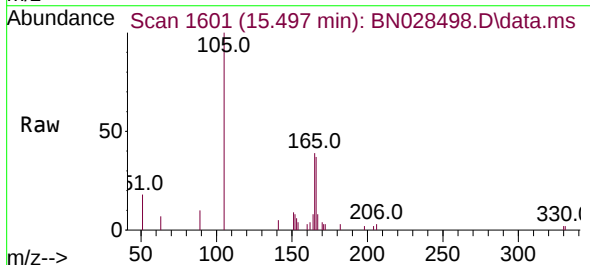
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

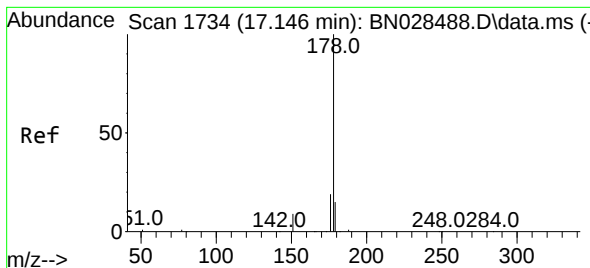
Tgt Ion:188 Resp: 38101
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.5 8.3 12.5



#20
4,6-Dinitro-2-methylphenol
Concen: 0.180 ng
RT: 15.497 min Scan# 1601
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

Tgt Ion:198 Resp: 7
Ion Ratio Lower Upper
198 100
51 720.3 42.1 63.1#
105 4081.4 32.6 48.8#





#25

Phenanthrene

Concen: 12.020 ng

RT: 17.146 min Scan# 1711

Delta R.T. 0.000 min

Lab File: BN028498.D

Acq: 08 Nov 2023 13:40

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

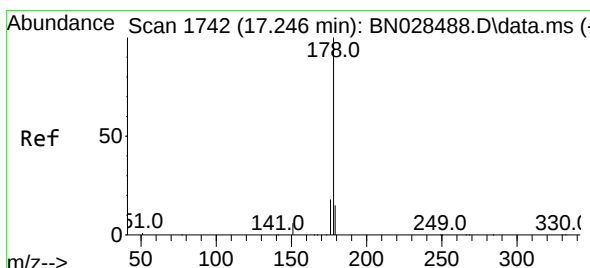
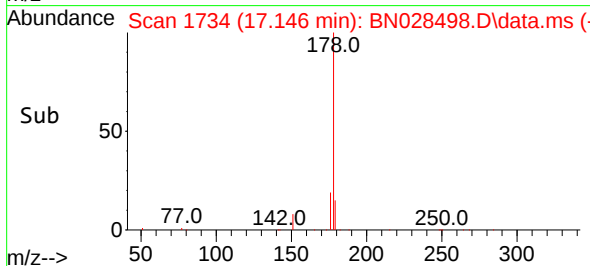
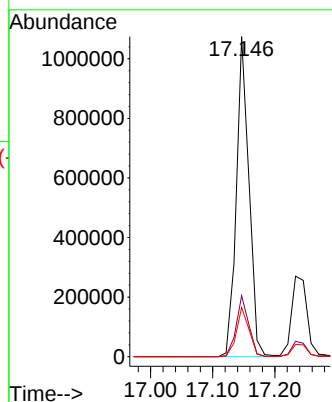
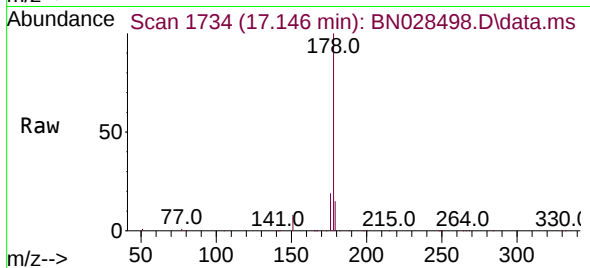
Tgt Ion:178 Resp: 1518916

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.3 12.5 18.7



#26

Anthracene

Concen: 4.049 ng

RT: 17.233 min Scan# 1741

Delta R.T. -0.012 min

Lab File: BN028498.D

Acq: 08 Nov 2023 13:40

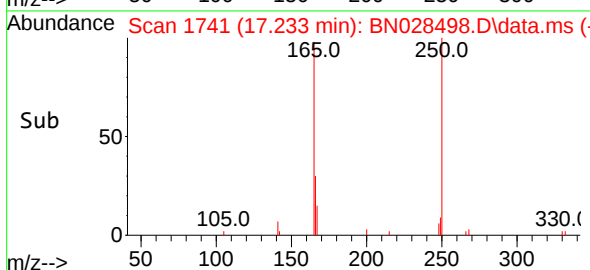
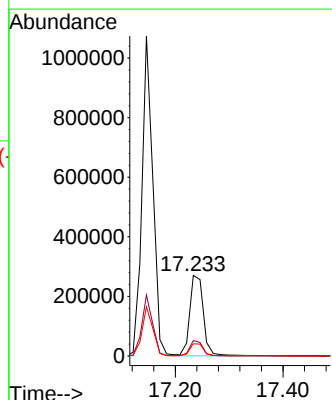
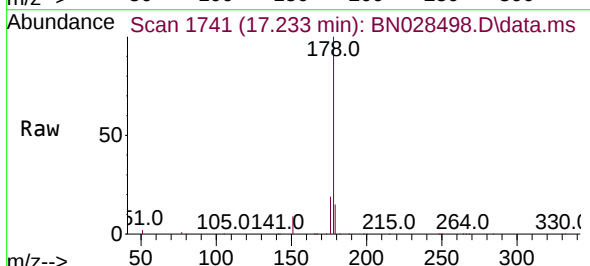
Tgt Ion:178 Resp: 468867

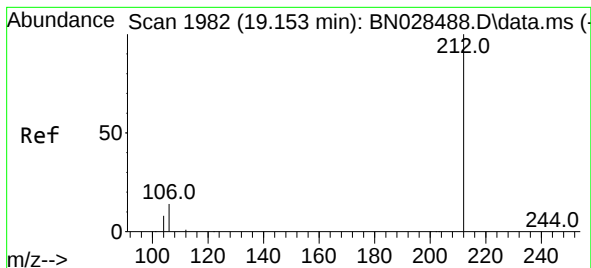
Ion Ratio Lower Upper

178 100

176 18.5 14.8 22.2

179 15.4 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.319 ng

RT: 19.148 min Scan# 1981

Delta R.T. -0.005 min

Lab File: BN028498.D

Acq: 08 Nov 2023 13:40

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

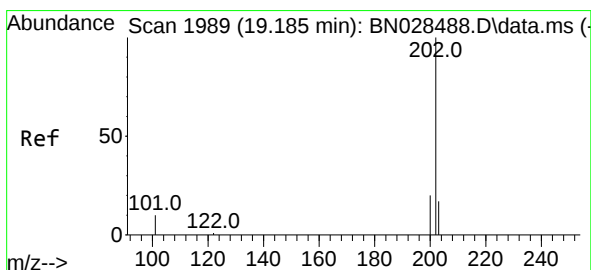
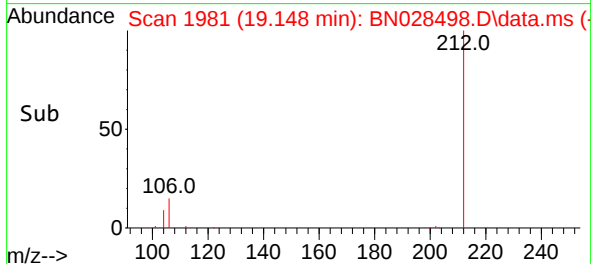
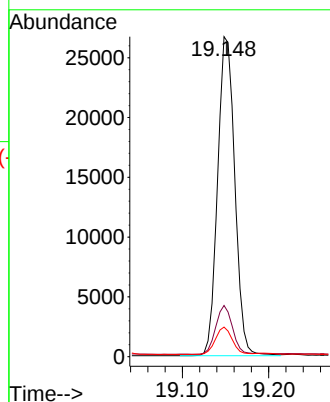
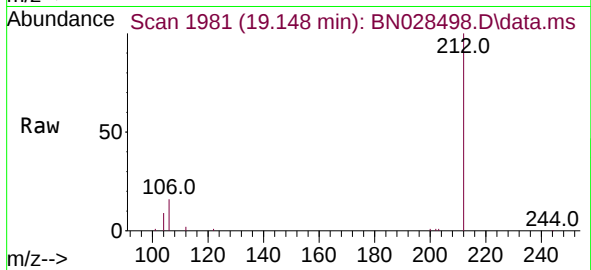
Tgt Ion:212 Resp: 37144

Ion Ratio Lower Upper

212 100

106 15.1 11.5 17.3

104 8.4 6.4 9.6



#28

Fluoranthene

Concen: 2.825 ng

RT: 19.181 min Scan# 1988

Delta R.T. -0.005 min

Lab File: BN028498.D

Acq: 08 Nov 2023 13:40

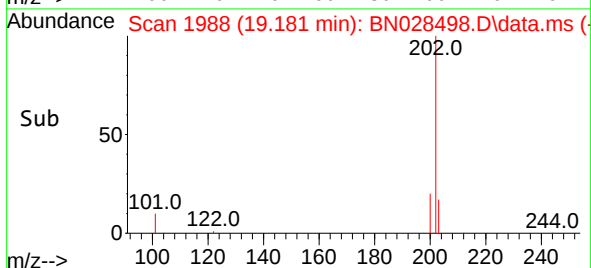
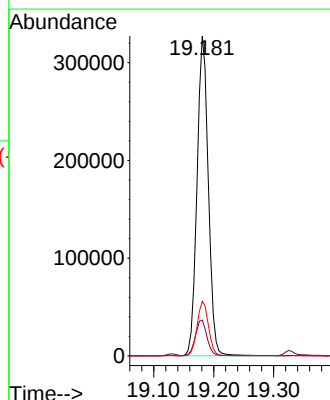
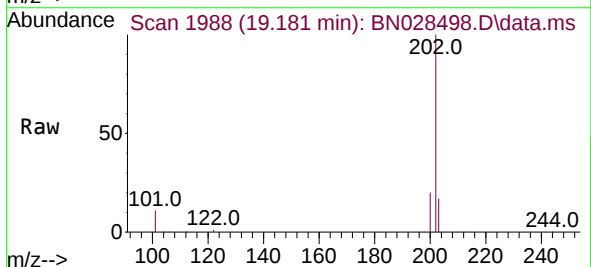
Tgt Ion:202 Resp: 427918

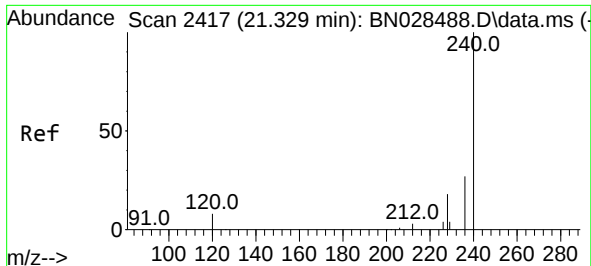
Ion Ratio Lower Upper

202 100

101 11.4 9.1 13.7

203 17.1 13.7 20.5

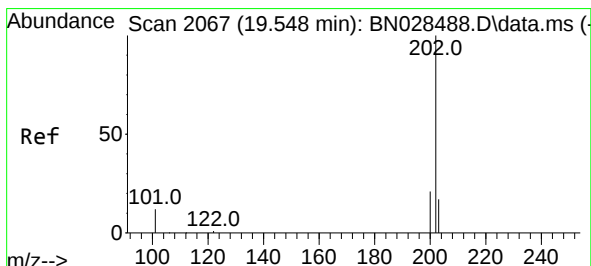
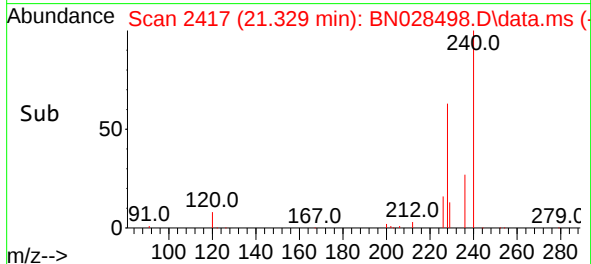
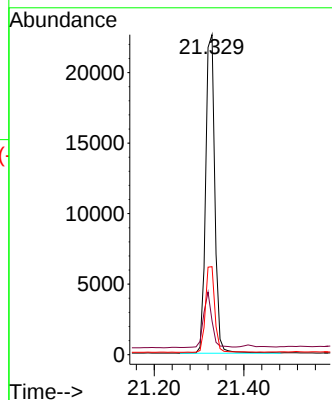
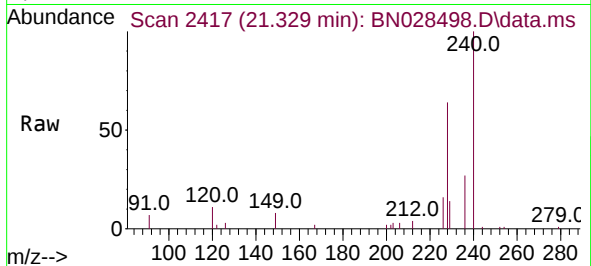




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.329 min Scan# 2417
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

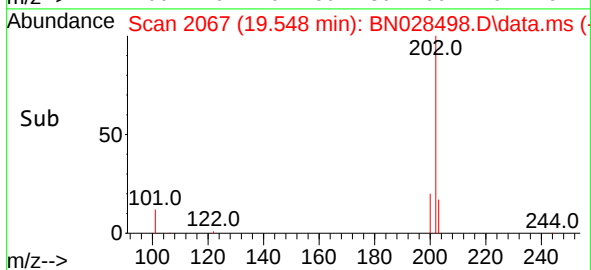
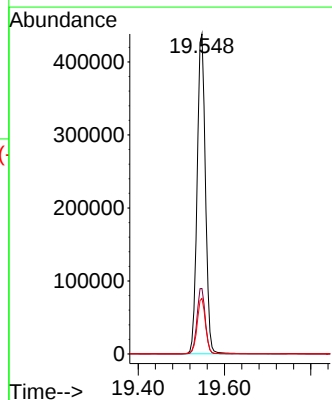
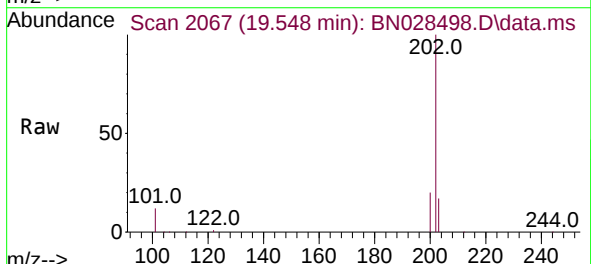
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

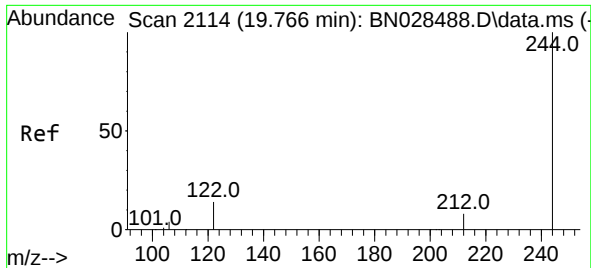
Tgt Ion:240 Resp: 32209
Ion Ratio Lower Upper
240 100
120 10.5 7.6 11.4
236 27.5 21.9 32.9



#30
Pyrene
Concen: 3.800 ng
RT: 19.548 min Scan# 2067
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

Tgt Ion:202 Resp: 582898
Ion Ratio Lower Upper
202 100
200 20.8 16.5 24.7
203 17.5 14.3 21.5

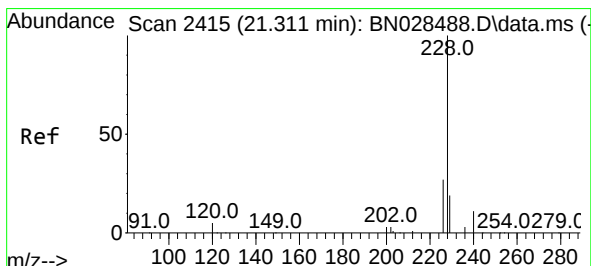
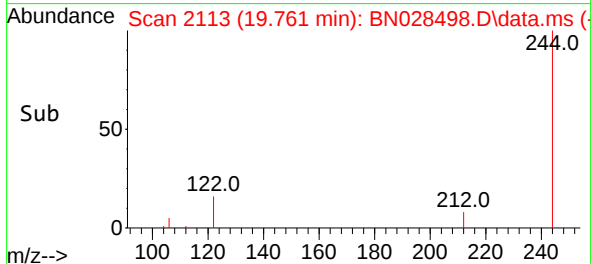
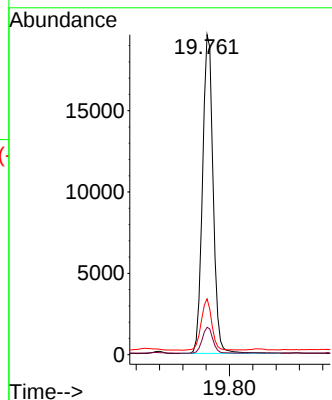
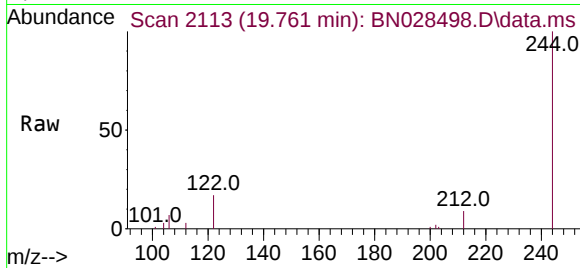




#31
 Terphenyl-d14
 Concen: 0.291 ng
 RT: 19.761 min Scan# 2113
 Delta R.T. -0.005 min
 Lab File: BN028498.D
 Acq: 08 Nov 2023 13:40

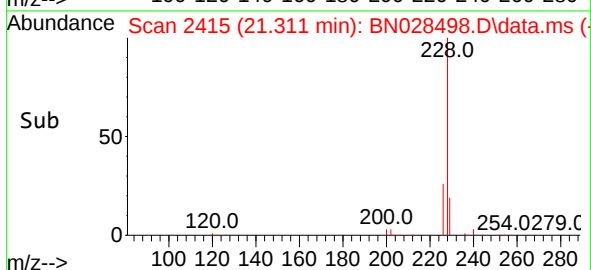
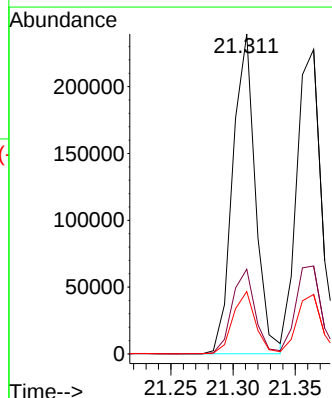
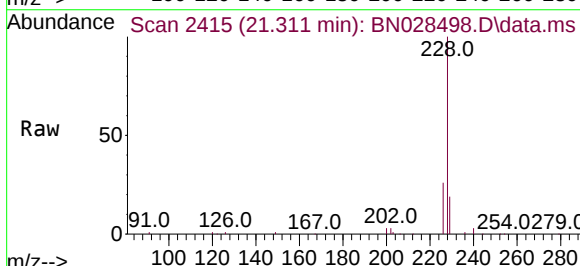
Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

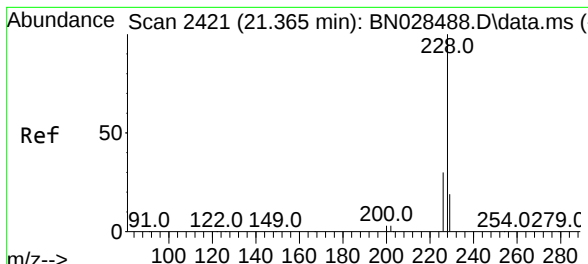
Tgt Ion:244 Resp: 24874
 Ion Ratio Lower Upper
 244 100
 212 8.6 6.6 9.8
 122 17.5 11.4 17.2#



#32
 Benzo(a)anthracene
 Concen: 2.250 ng
 RT: 21.311 min Scan# 2415
 Delta R.T. 0.000 min
 Lab File: BN028498.D
 Acq: 08 Nov 2023 13:40

Tgt Ion:228 Resp: 302930
 Ion Ratio Lower Upper
 228 100
 226 26.5 21.4 32.2
 229 19.5 15.7 23.5





#33

Chrysene

Concen: 2.317 ng

RT: 21.365 min Scan# 2421

Delta R.T. 0.000 min

Lab File: BN028498.D

Acq: 08 Nov 2023 13:40

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

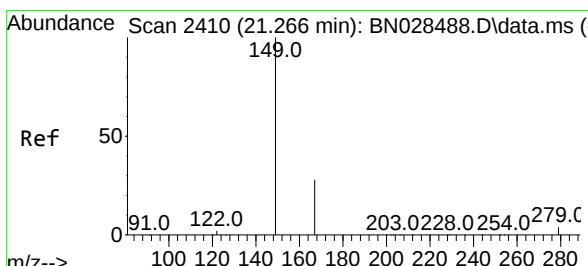
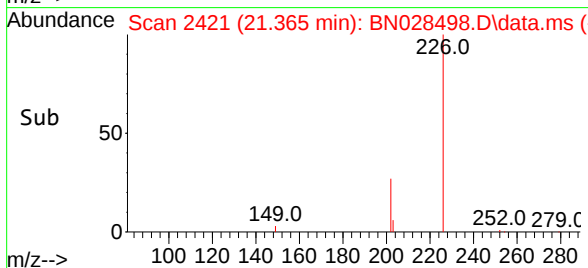
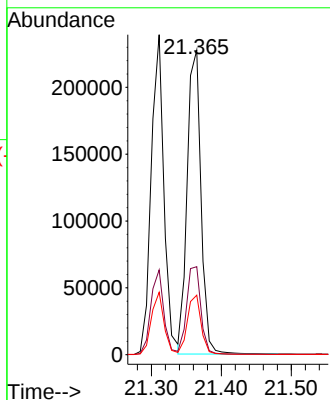
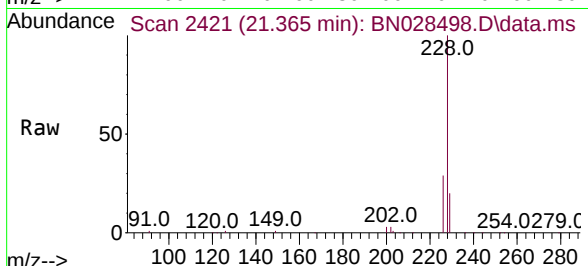
Tgt Ion:228 Resp: 311521

Ion Ratio Lower Upper

228 100

226 28.9 23.8 35.8

229 19.6 15.7 23.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.218 ng

RT: 21.257 min Scan# 2409

Delta R.T. -0.009 min

Lab File: BN028498.D

Acq: 08 Nov 2023 13:40

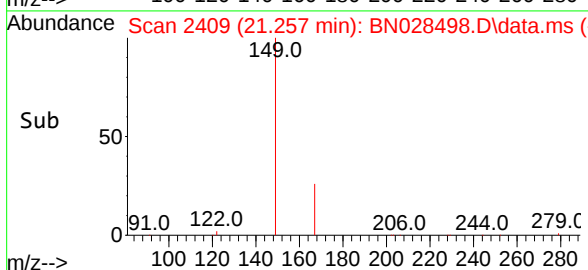
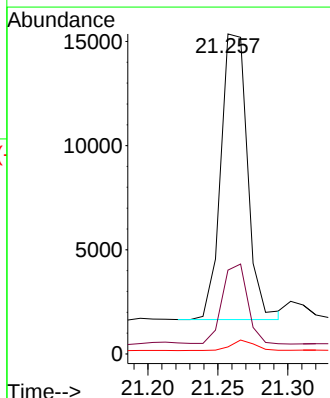
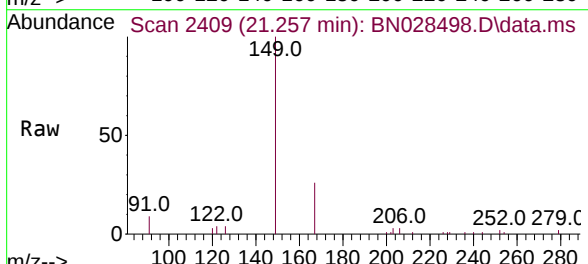
Tgt Ion:149 Resp: 18128

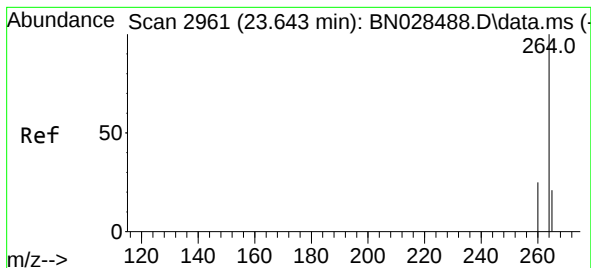
Ion Ratio Lower Upper

149 100

167 26.8 21.0 31.4

279 3.4 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.640 min Scan# 2961

Delta R.T. -0.003 min

Lab File: BN028498.D

Acq: 08 Nov 2023 13:40

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

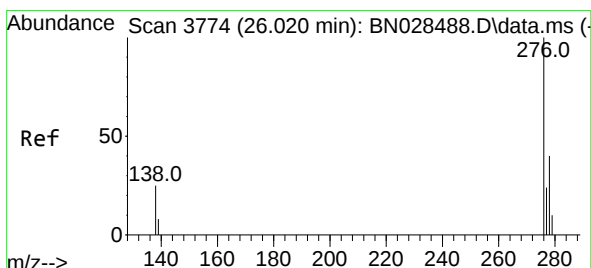
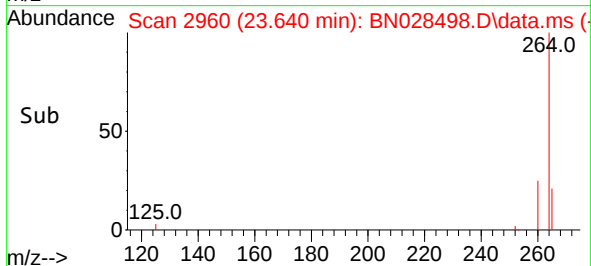
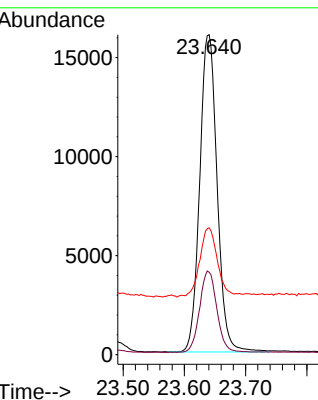
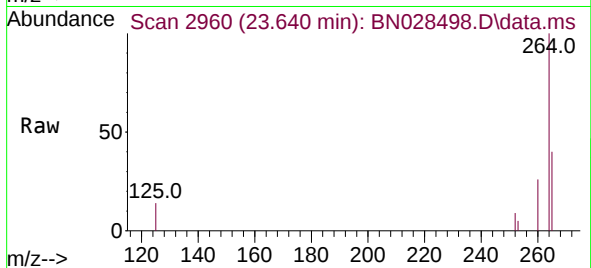
Tgt Ion:264 Resp: 31623

Ion Ratio Lower Upper

264 100

260 25.7 20.7 31.1

265 39.6 31.6 47.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.083 ng

RT: 26.017 min Scan# 3773

Delta R.T. -0.003 min

Lab File: BN028498.D

Acq: 08 Nov 2023 13:40

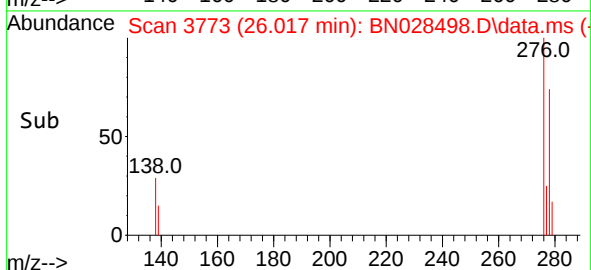
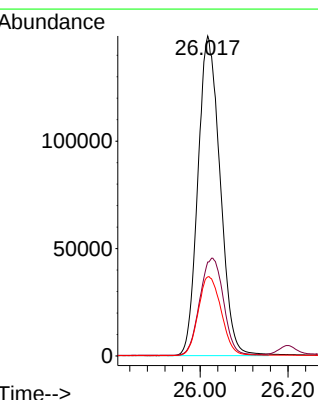
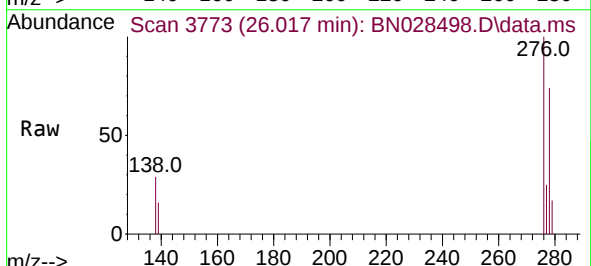
Tgt Ion:276 Resp: 520820

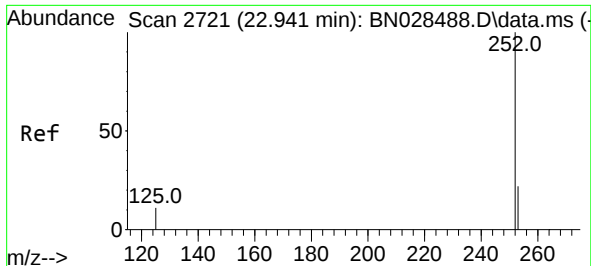
Ion Ratio Lower Upper

276 100

138 32.4 22.4 33.6

277 25.6 19.8 29.6

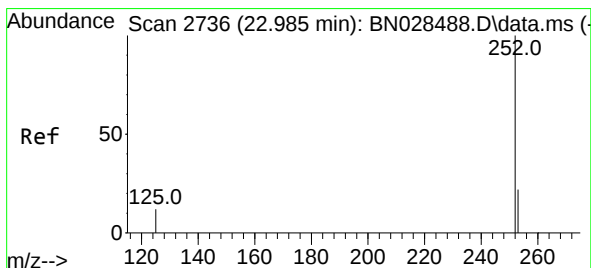
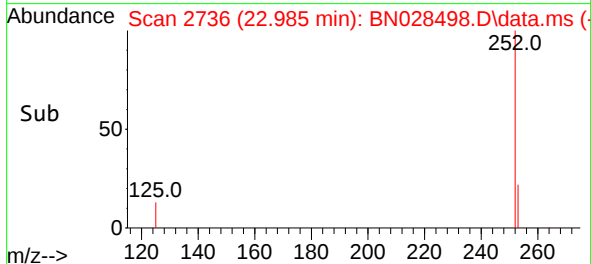
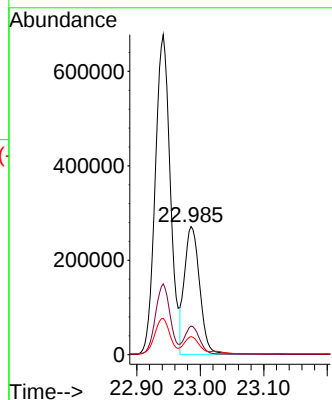
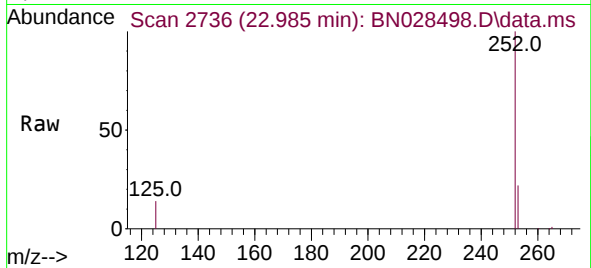




#37
Benzo(b)fluoranthene
Concen: 3.437 ng
RT: 22.985 min Scan# 21
Delta R.T. 0.044 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

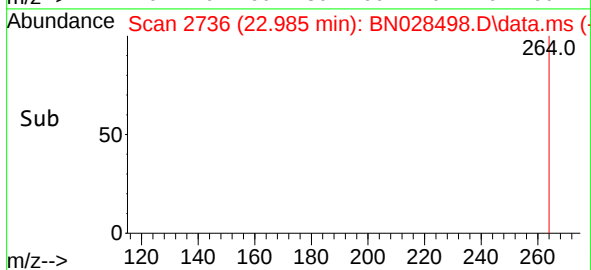
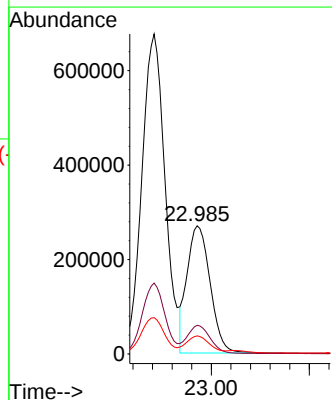
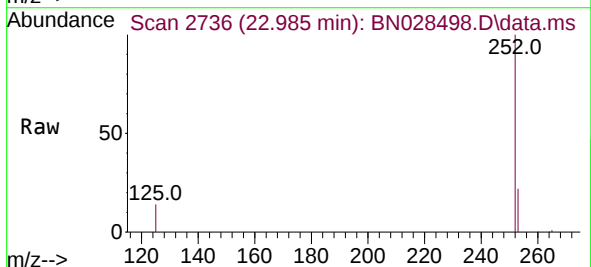
Instrument :
BNA_N
ClientSampleId :
PT-PAH-SOIL

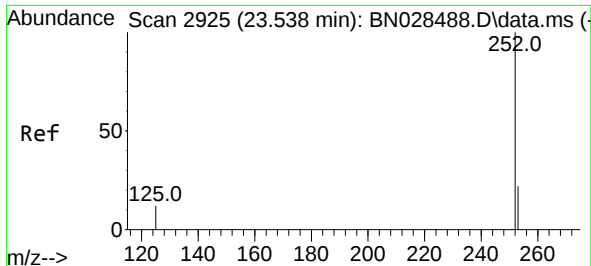
Tgt Ion:252 Resp: 447913
Ion Ratio Lower Upper
252 100
253 22.4 18.6 27.8
125 14.2 11.4 17.0



#38
Benzo(k)fluoranthene
Concen: 3.467 ng
RT: 22.985 min Scan# 2736
Delta R.T. 0.000 min
Lab File: BN028498.D
Acq: 08 Nov 2023 13:40

Tgt Ion:252 Resp: 441011
Ion Ratio Lower Upper
252 100
253 22.4 19.0 28.6
125 14.2 12.0 18.0





#39

Benzo(a)pyrene

Concen: 4.336 ng

RT: 23.538 min Scan# 2925

Delta R.T. 0.000 min

Lab File: BN028498.D

Acq: 08 Nov 2023 13:40

Instrument :

BNA_N

ClientSampleId :

PT-PAH-SOIL

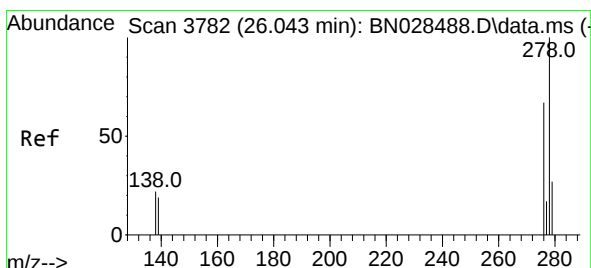
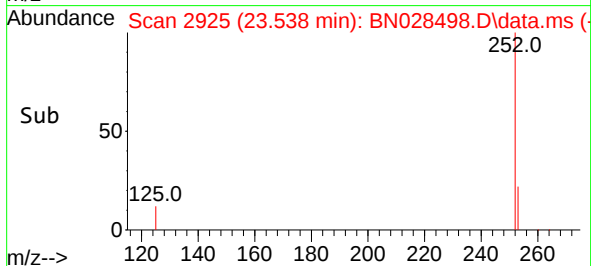
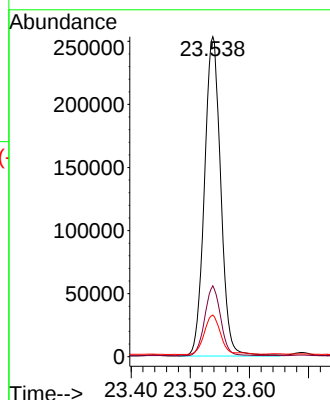
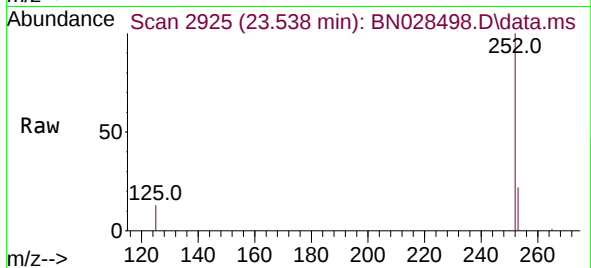
Tgt Ion:252 Resp: 482914

Ion Ratio Lower Upper

252 100

253 22.2 19.3 28.9

125 13.0 13.3 19.9#



#40

Dibenzo(a,h)anthracene

Concen: 6.583 ng

RT: 26.041 min Scan# 3781

Delta R.T. -0.003 min

Lab File: BN028498.D

Acq: 08 Nov 2023 13:40

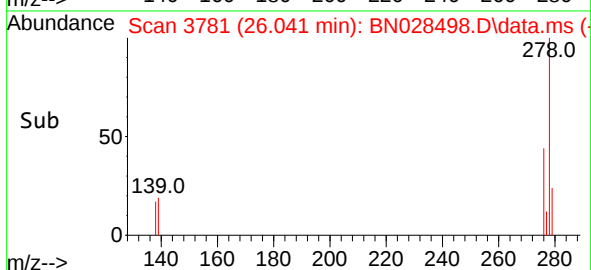
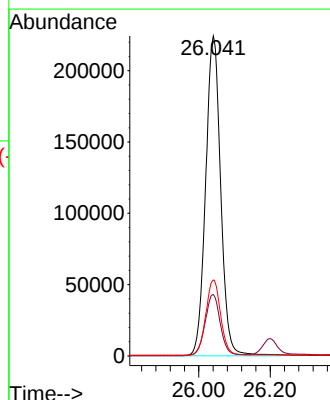
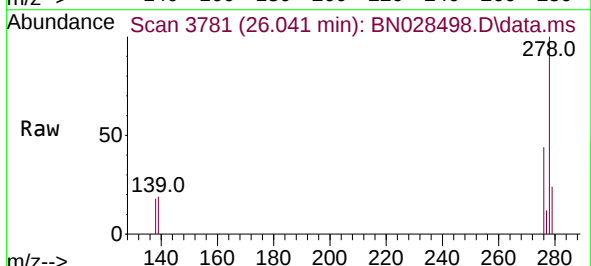
Tgt Ion:278 Resp: 654570

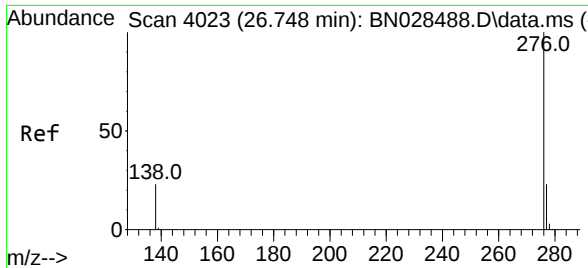
Ion Ratio Lower Upper

278 100

139 19.2 17.0 25.6

279 23.7 23.8 35.8#





#41
 Benzo(g,h,i)perylene
 Concen: 7.423 ng
 RT: 26.748 min Scan# 40
 Delta R.T. 0.000 min
 Lab File: BN028498.D
 Acq: 08 Nov 2023 13:40

Instrument :
 BNA_N
 ClientSampleId :
 PT-PAH-SOIL

Tgt Ion:276 Resp: 817683

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.5	29.3
138	24.5	20.1	30.1

