

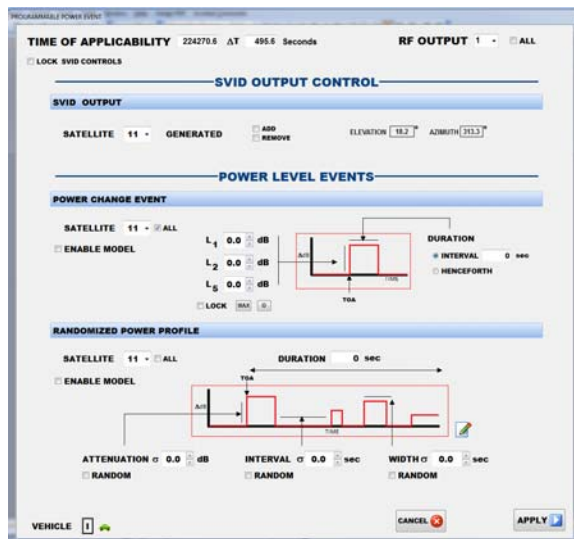


RANDOM ATTENUATION CONTROL

RANDOMEVENT.SCN (RANDOMEVENT.TMP)

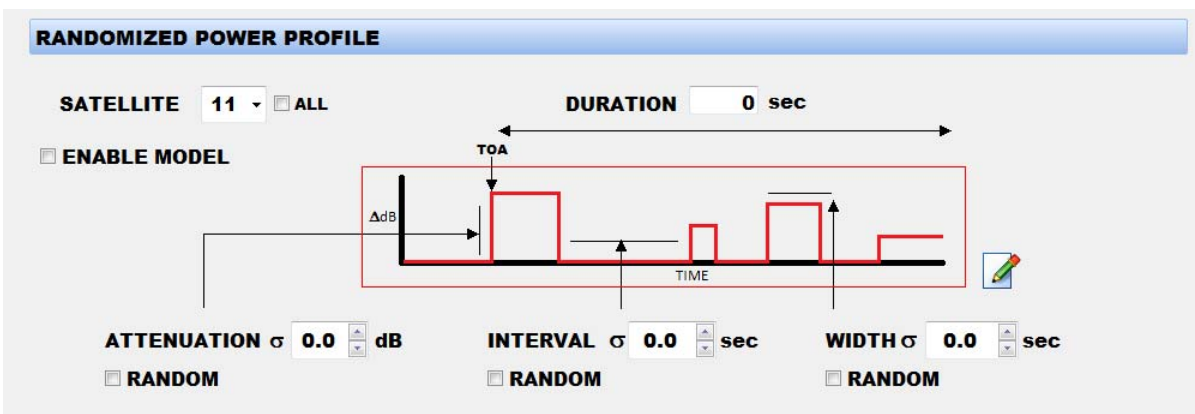
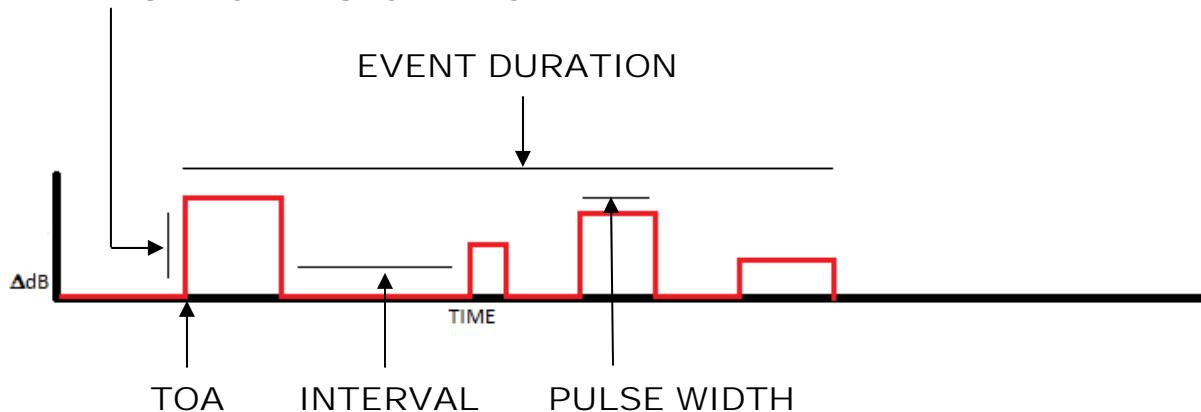
Use this model to simulate foliage or any *random* process that results in reduced power at the receiver-antenna. This effect applies in-addition-to other attenuation modeling such as multipath.

A RANDOM EVENT is a set of Periodic-Attenuation-Pulses with programmable Pulse-Duration (WIDTH), Inter-Pulse Separation (INTERVAL). The pulses terminates after the Event Duration following the Event Start Time (TIME OF APPLICABILITY-TOA). Parameters can be either *deterministic* or *random*. If Random is selected, the values specified are variances, otherwise specified parameters are used directly.



- **TIME OF APPLICABILITY (EVENT START TIME - TOA)**
- **ATTENUATION VARIANCE (σ dB)**
- **INTER-PULSE INTERVAL VARIANCE (σ sec)**
- **ATTENUATION PULSE WIDTH VARIANCE (σ sec)**
- **EVENT DURATION (Relative to TOA)**

ATTENUATION - PULSE HEIGHT

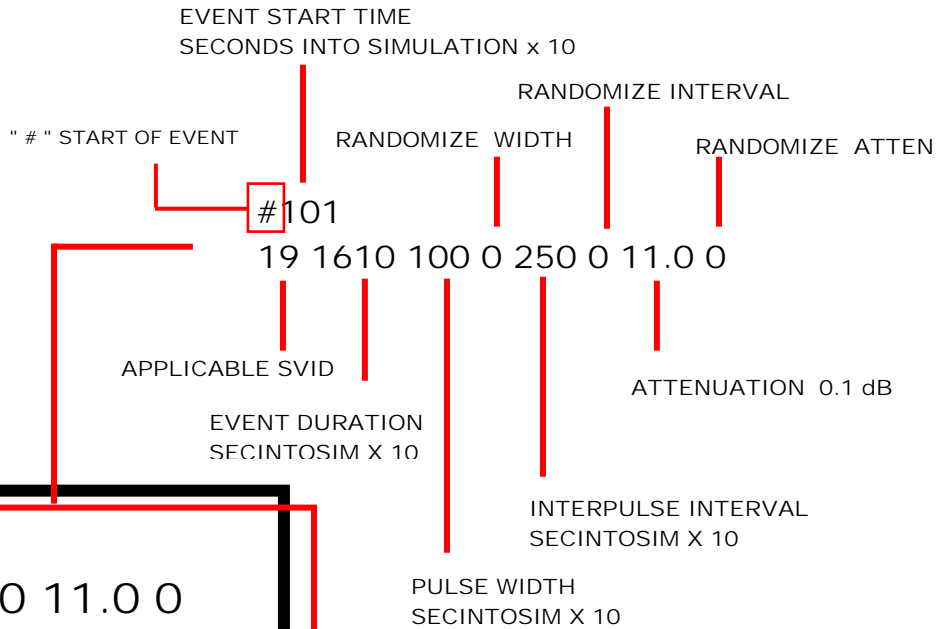


RANDOM ATTENUATION CONTROL FILE

The model is controlled by a TEXT file within the Scenario folder. Following the usual TMP/SCN file convention, the details of the file are illustrated below.

RANDOMPOWER.SCN

```
#101
19 1610 100 1 250 0 11.0 0
#1000
22 1000 200 0 100 0 10.0 0
#2250
32 1620 100 0 100 0 10.0 0
31 1620 100 0 100 0 10.0 0
30 1620 100 0 100 0 10.0 0
...
3 1620 100 0 100 0 10.0 0
2 1620 100 0 100 0 10.0 0
1 1620 100 0 100 0 10.0 0
#3441
11 1410 50 0 200 0 5.0 0
```



#TIME SEQUENTIAL

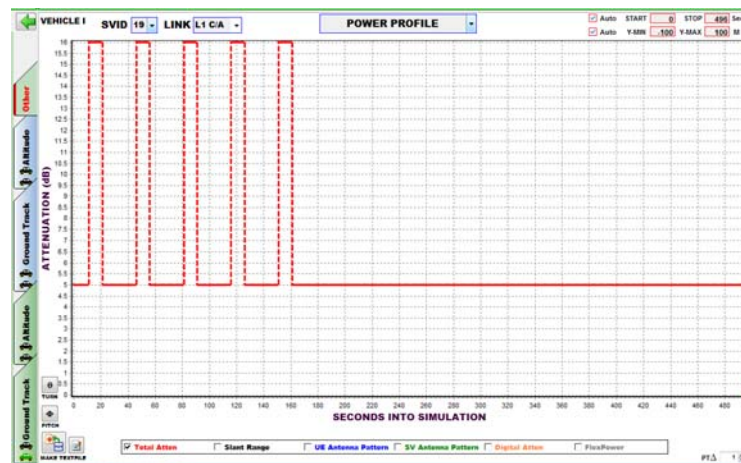
PUT MULTIPLE SVIDS FOR A COMMON EVENT TOA ON SEPERATE LINES.

SVID ORDER DOESN'T MATTER

RANDOMPOWER.SCN

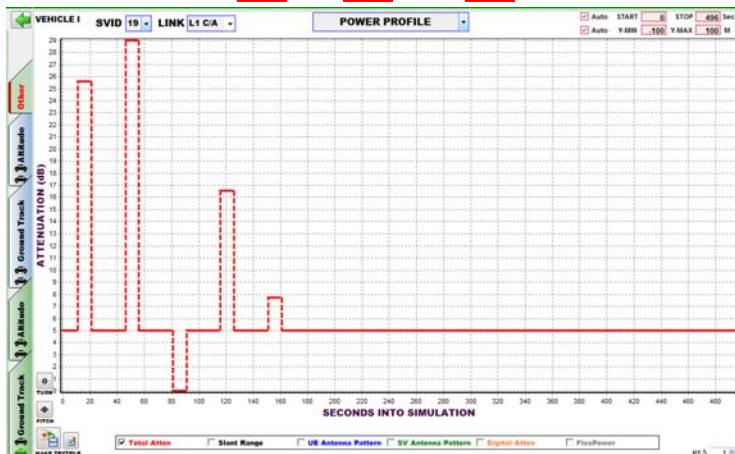
#101

19 1610 100 0 250 0 11.0 0



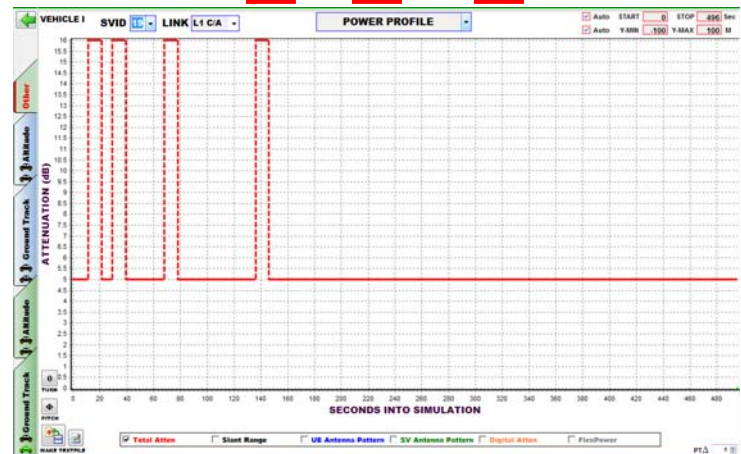
#101

19 1610 100 0 250 0 11.0 1



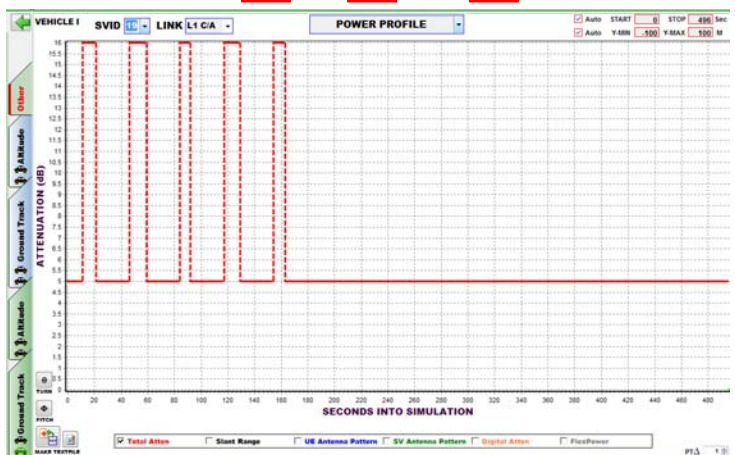
#101

19 1610 100 1 250 0 11.0 0



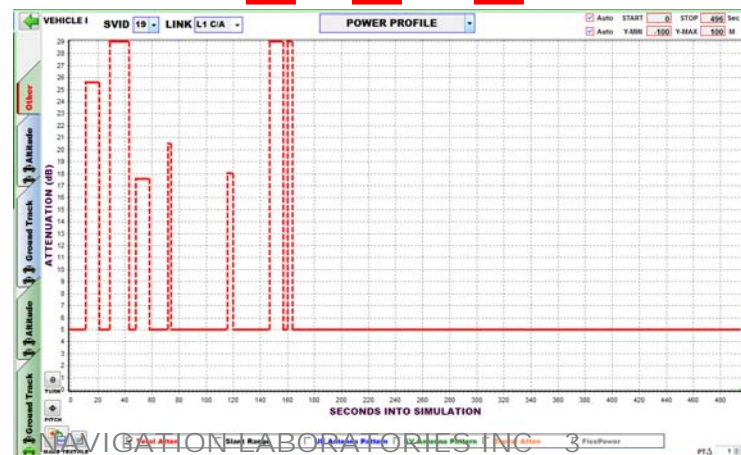
#101

19 1610 100 0 250 1 11.0 0

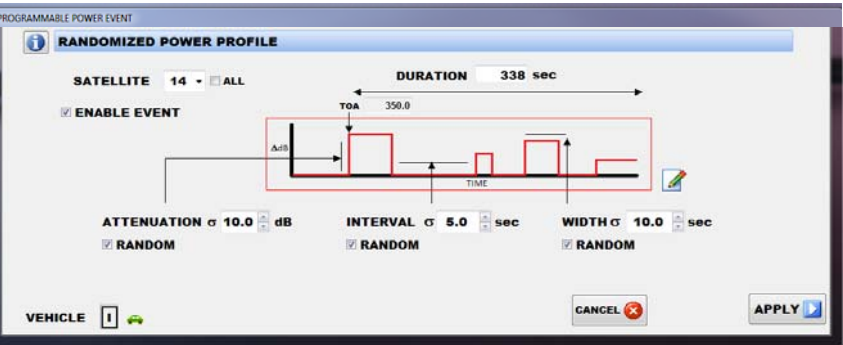


#101

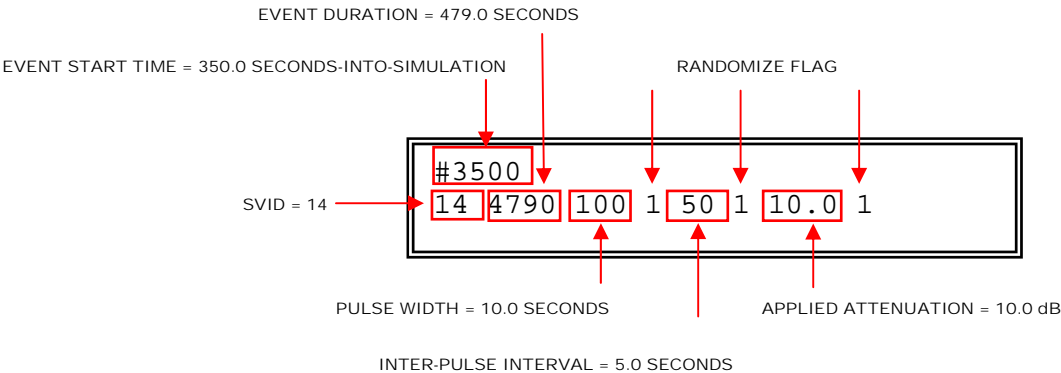
19 1610 100 1 250 1 11.0 1



RANDOM_POWER_LEVELS

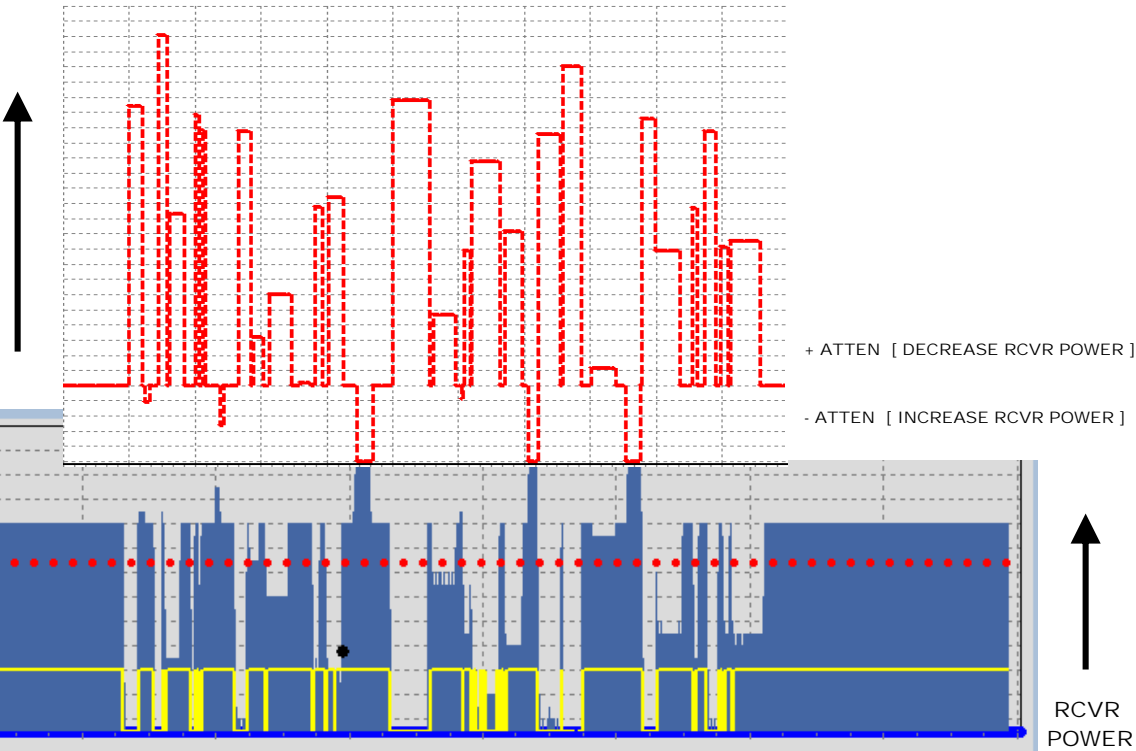


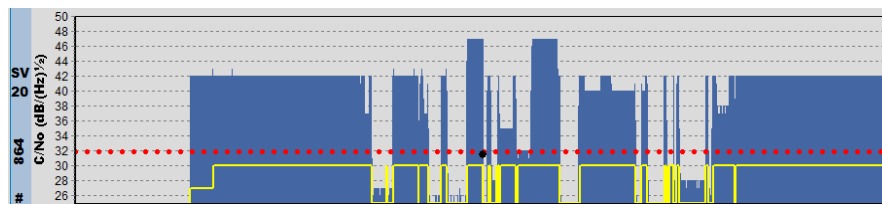
RANDOMPOWER.SCN



SVID 14

PROGRAMMED
ATTENUATION





SVID 20

