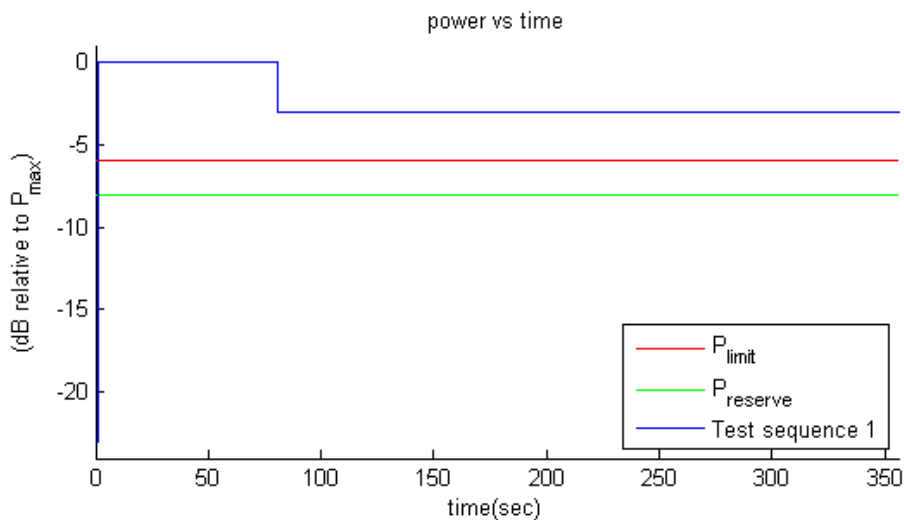




## APPENDIX E: TEST SEQUENCES

1. Test sequence is generated based on below parameters of the DUT:
  - a. Measured maximum power ( $P_{max}$ )
  - b. Measured Tx\_power\_at\_SAR\_design\_target ( $P_{limit}$ )
  - c. Reserve\_power\_margin (dB)
    - $P_{reserve}$  (dBm) = measured  $P_{limit}$  (dBm) – Reserve\_power\_margin (dB)
  - d. SAR\_time\_window (100s for FCC)
2. Test Sequence 1 Waveform:

Based on the parameters above, the Test Sequence 1 is generated with one transition between high and low Tx powers. Here, high power =  $P_{max}$ ; low power =  $P_{max}/2$ , and the transition occurs after 80 seconds at high power  $P_{max}$ . As long as the power enforcement is taking into effective during one 100s/60s time window, the validation test with this defined test sequence 1 is valid, otherwise, select other radio configuration (band/DSI within the same technology group) having lower  $P_{limit}$  for this test. The Test sequence 1 waveform is shown below:



**Figure E-1**  
Test sequence 1 waveform



|   |   |  |
|---|---|--|
| <b>FCC ID:</b> A3LSMS901U                   |  <b>PART 2 RF EXPOSURE EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| <b>Test Dates:</b><br>10/14/2021–11/08/2021 | <b>DUT Type:</b><br>Portable Handset  | APPENDIX E:<br>Page 1 of 3             |

3. Test Sequence 2 Waveform:

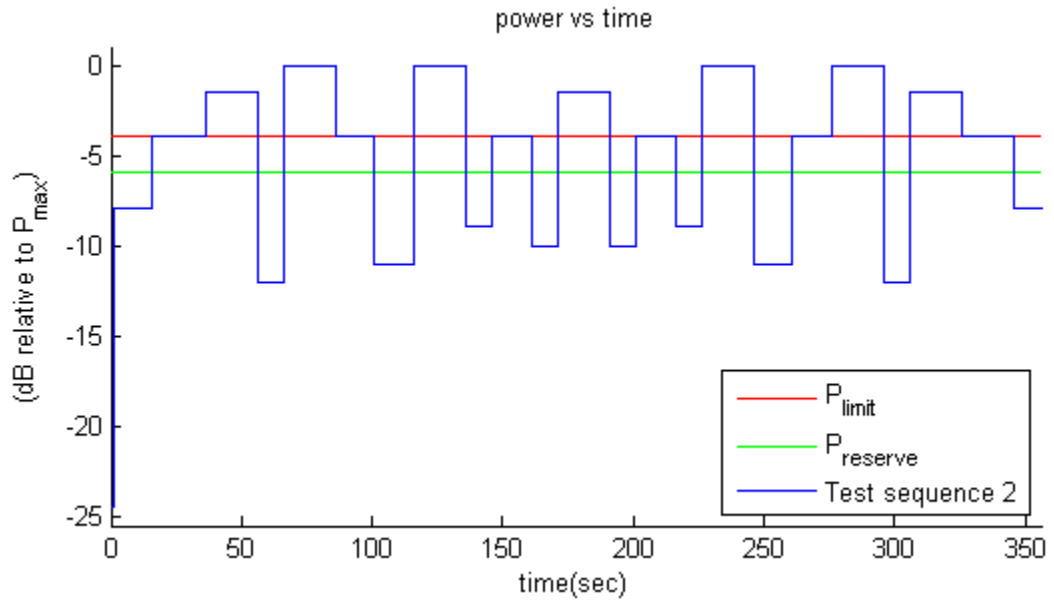
Based on the parameters described above, the Test Sequence 2 is generated as described in Table 10-1, which contains two 170 second-long sequences (yellow and green highlighted rows) that are mirrored around the center row of 20s, resulting in a total duration of 360 seconds:

**Table E-1  
Test Sequence 2**



| Time duration (seconds) | dB relative to $P_{limit}$ or $P_{reserve}$                                 |
|-------------------------|---|
| 15                      | $P_{reserve} - 2$   |
| 20                      | $P_{limit}$   |
| 20                      | $(P_{limit} + P_{max})/2$ averaged in mW and rounded to nearest 0.1 dB step |
| 10                      | $P_{reserve} - 6$   |
| 20                      | $P_{max}$   |
| 15                      | $P_{limit}$   |
| 15                      | $P_{reserve} - 5$   |
| 20                      | $P_{max}$   |
| 10                      | $P_{reserve} - 3$   |
| 15                      | $P_{limit}$   |
| 10                      | $P_{reserve} - 4$   |
| 20                      | $(P_{limit} + P_{max})/2$ averaged in mW and rounded to nearest 0.1 dB step |
| 10                      | $P_{reserve} - 4$   |
| 15                      | $P_{limit}$   |
| 10                      | $P_{reserve} - 3$   |
| 20                      | $P_{max}$   |
| 15                      | $P_{reserve} - 5$   |
| 15                      | $P_{limit}$   |
| 20                      | $P_{max}$   |
| 10                      | $P_{reserve} - 6$   |
| 20                      | $(P_{limit} + P_{max})/2$ averaged in mW and rounded to nearest 0.1 dB step |
| 20                      | $P_{limit}$   |
| 15                      | $P_{reserve} - 2$   |

|   |   |  |
|---|---|--|
| FCC ID: A3LSMS901U                          |  <b>PART 2 RF EXPOSURE EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| <b>Test Dates:</b><br>10/14/2021–11/08/2021 | <b>DUT Type:</b><br>Portable Handset  | APPENDIX E:<br>Page 2 of 3             |

The Test Sequence 2 waveform is shown in Figure E-2.



**Figure E-2**  
**Test sequence 2 waveform**

|   |   |  |
|---|---|--|
| <b>FCC ID:</b> A3LSMS901U                   |  <b>PART 2 RF EXPOSURE EVALUATION REPORT</b>  | <b>Approved by:</b><br>Quality Manager |
| <b>Test Dates:</b><br>10/14/2021–11/08/2021 | <b>DUT Type:</b><br>Portable Handset  | <b>APPENDIX E:</b><br>Page 3 of 3      |