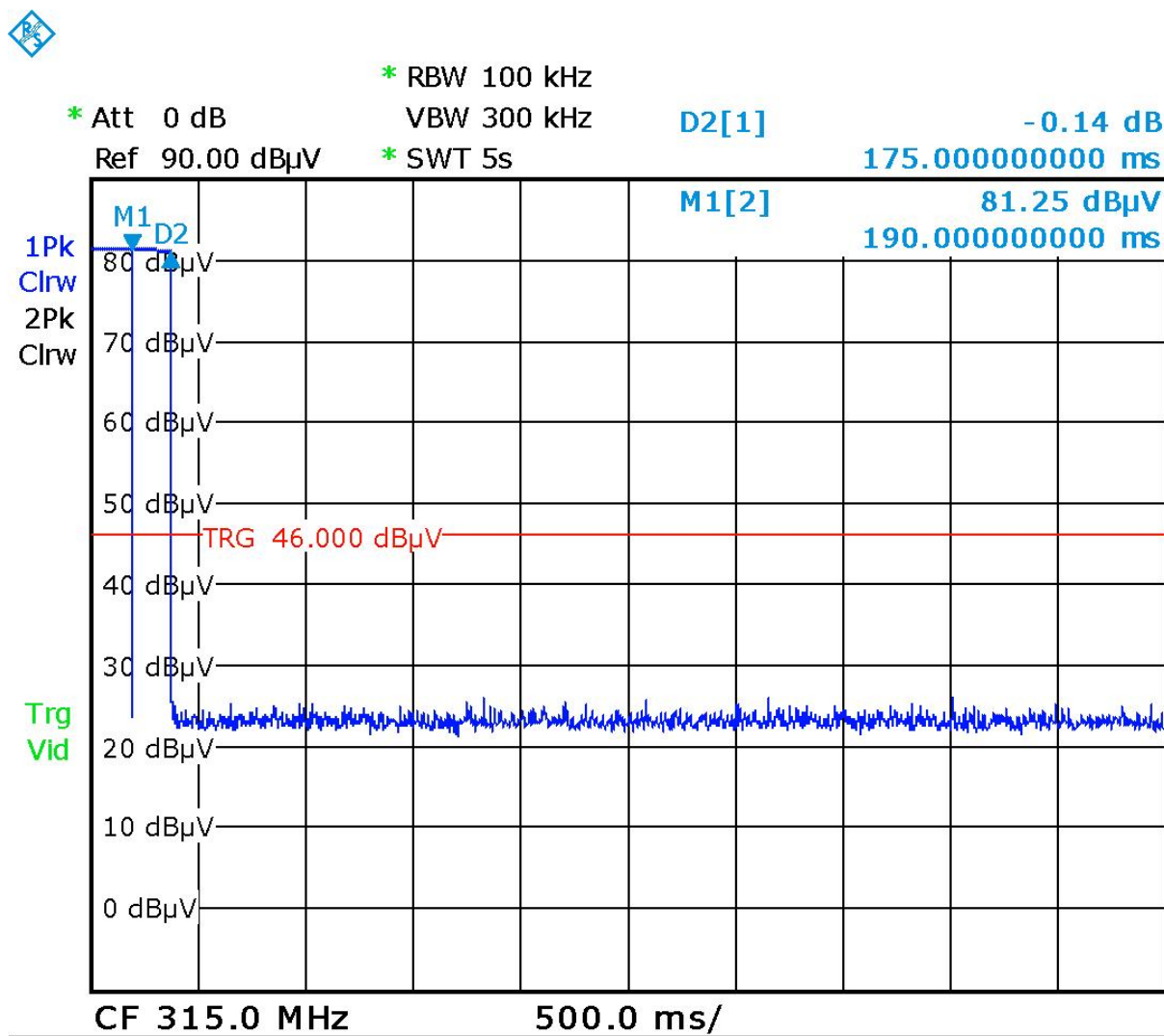


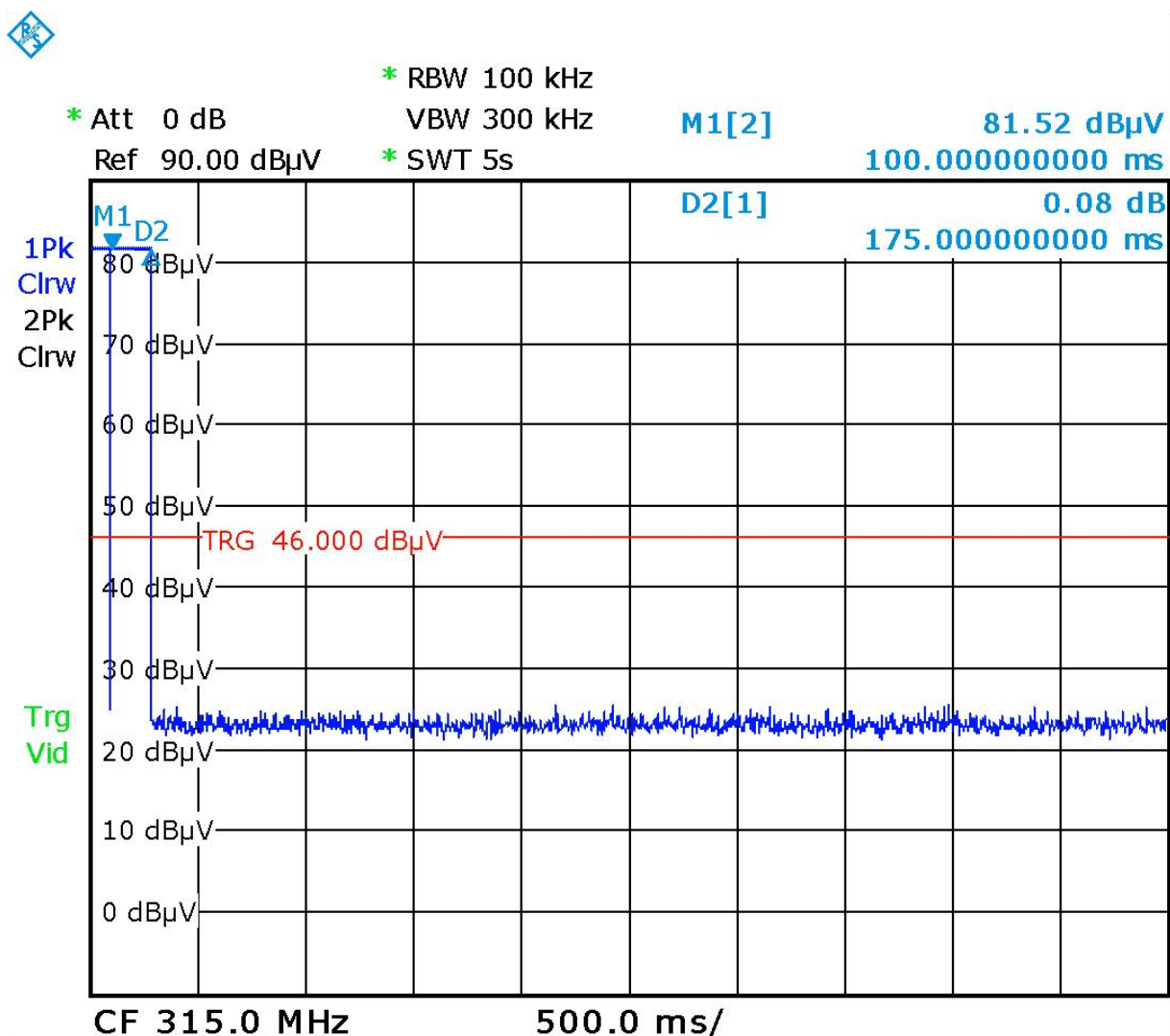
Periodic operation characteristics

Manually operated transmitter deactivation

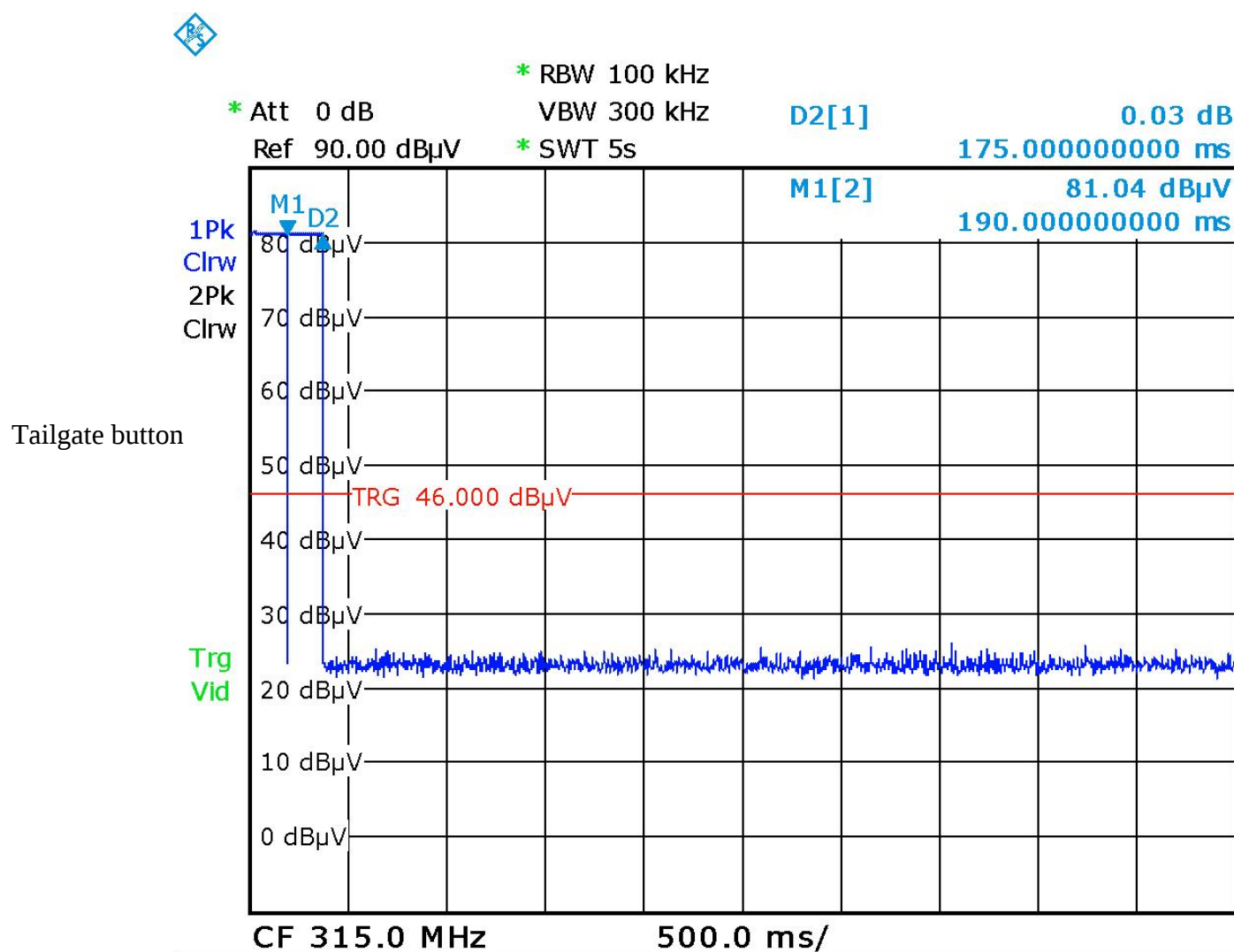
RSS-210 Section A1.1.1 (1): A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.



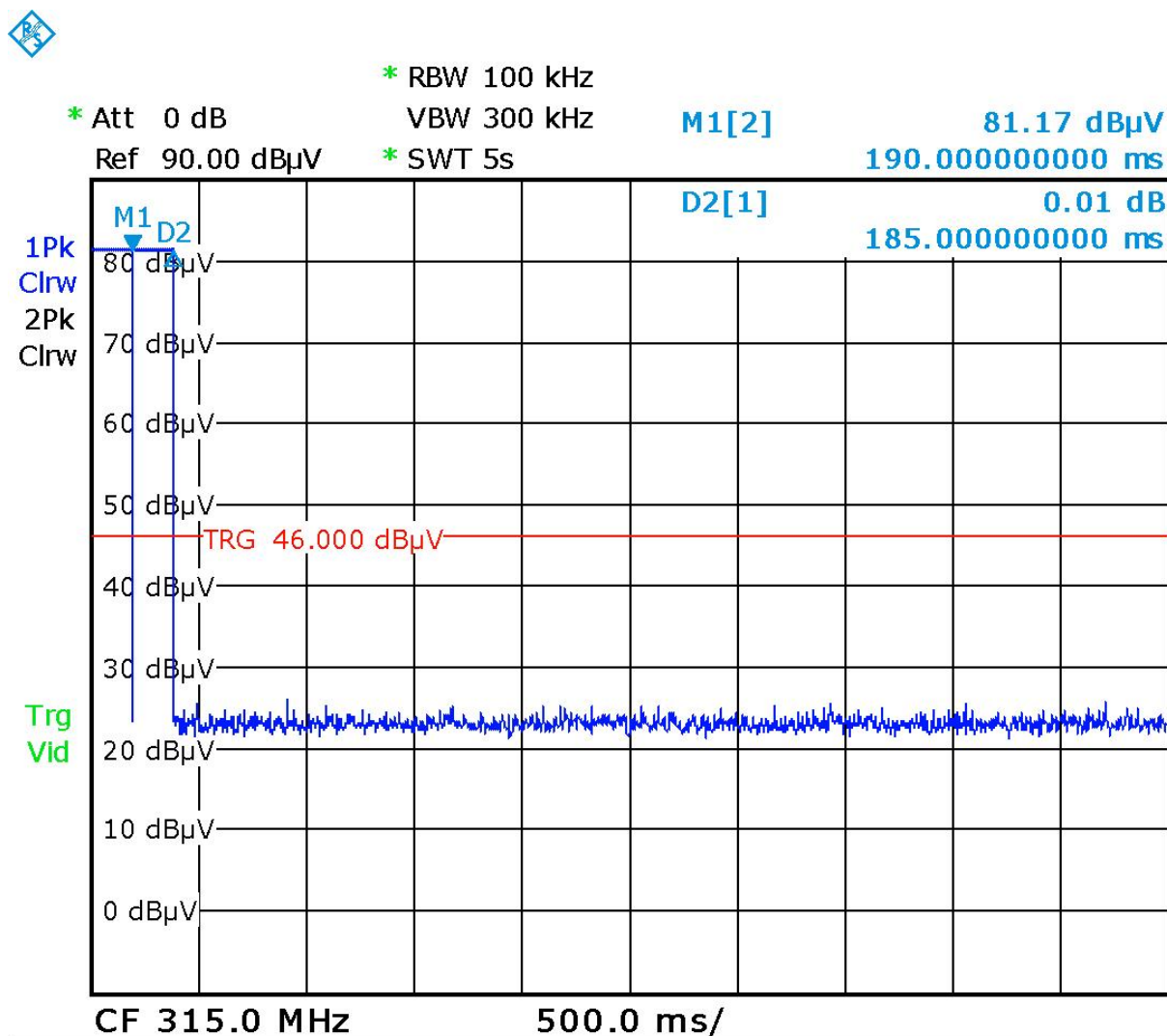
M1: release point



M1: release point

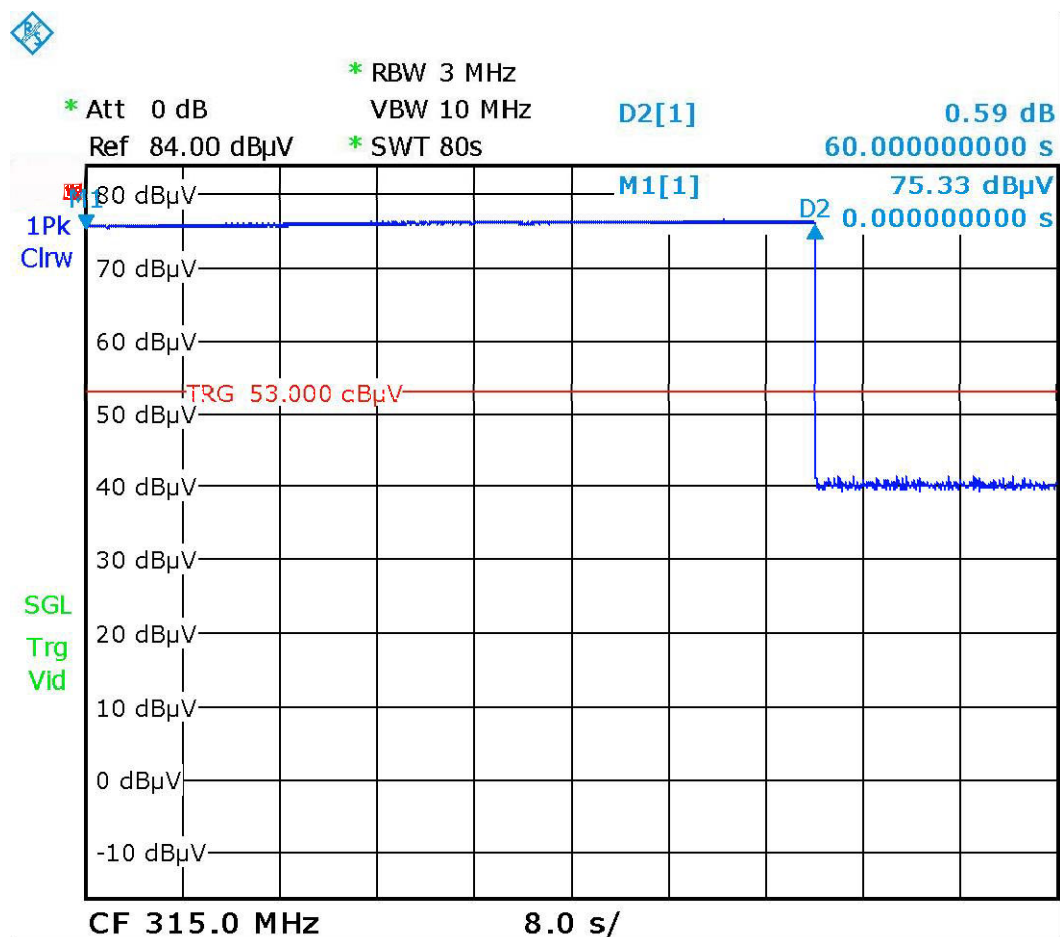


M1: release point

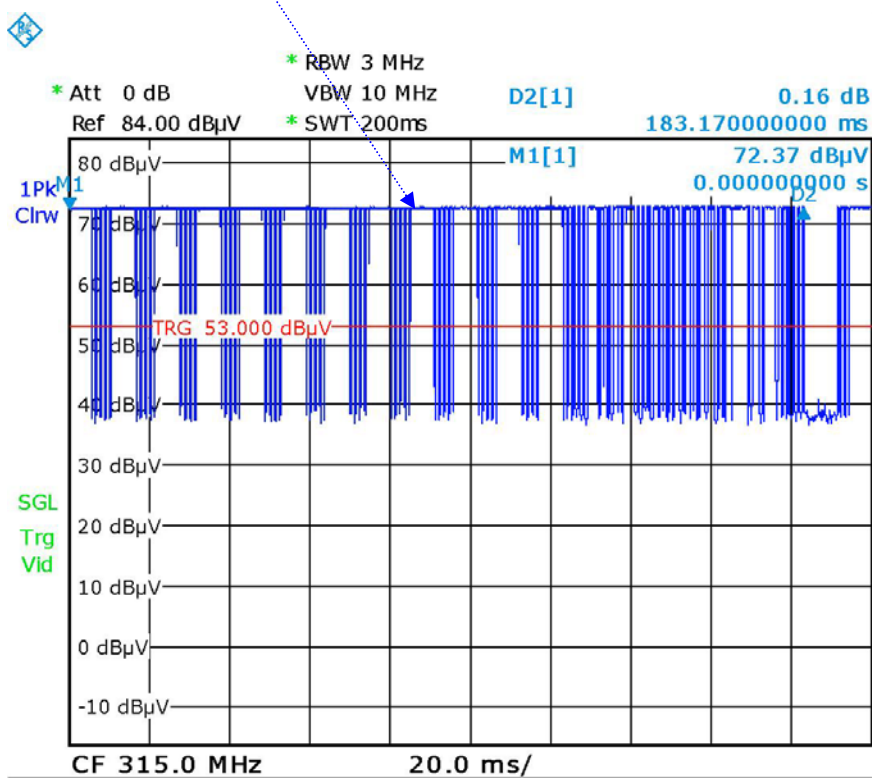
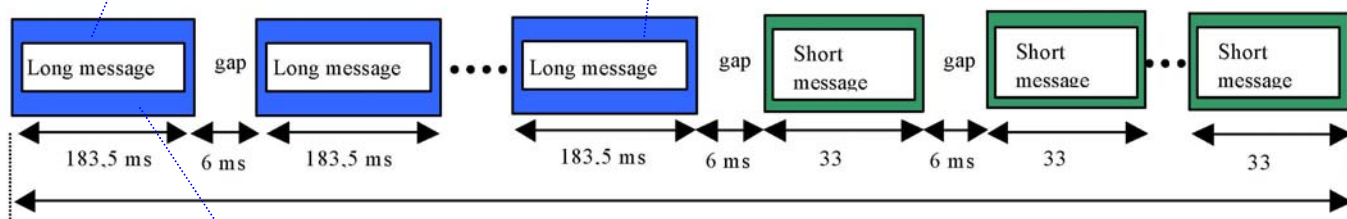
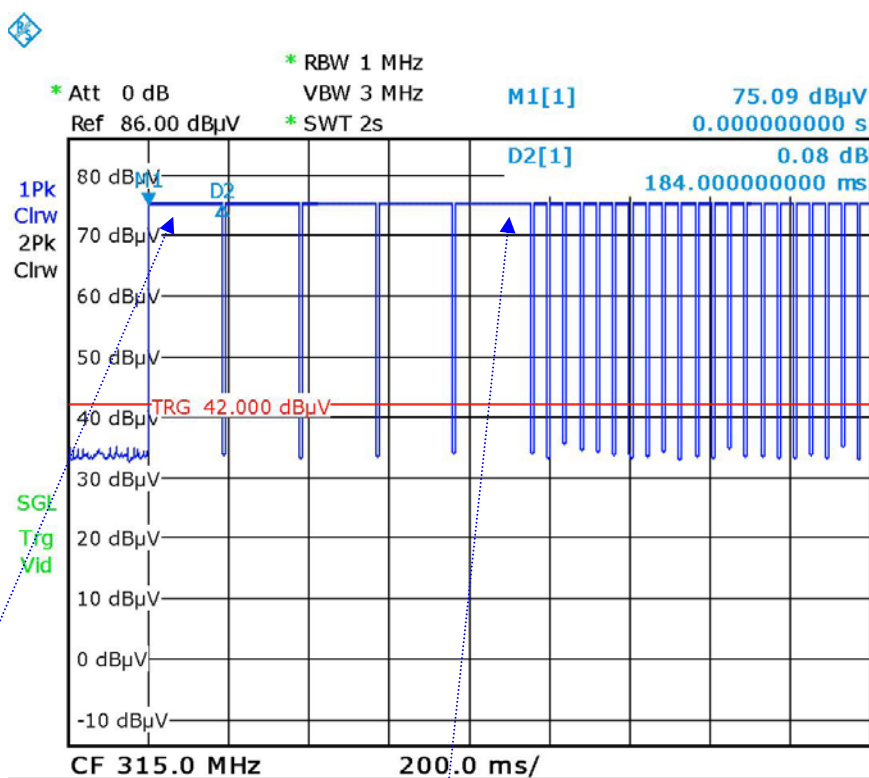


M1: release point

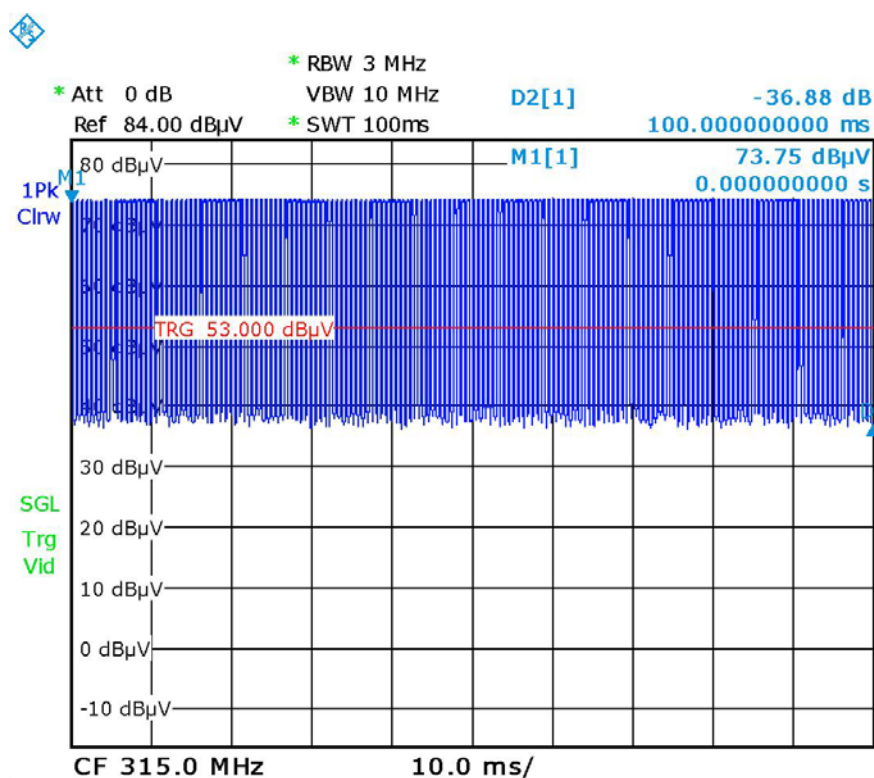
Transmission times (Active entry mode)



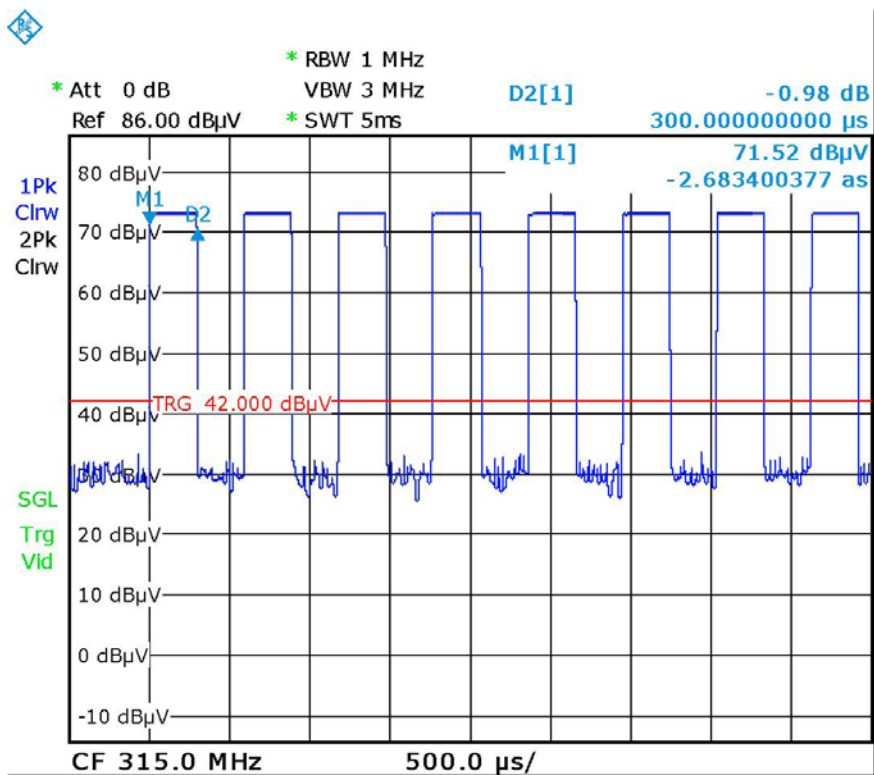
Automatic shut off time



Long message = 183.17 ms



Long message = 183.17 ms
Single pulse = 300μs
170 pulses a'300μs = 51 ms

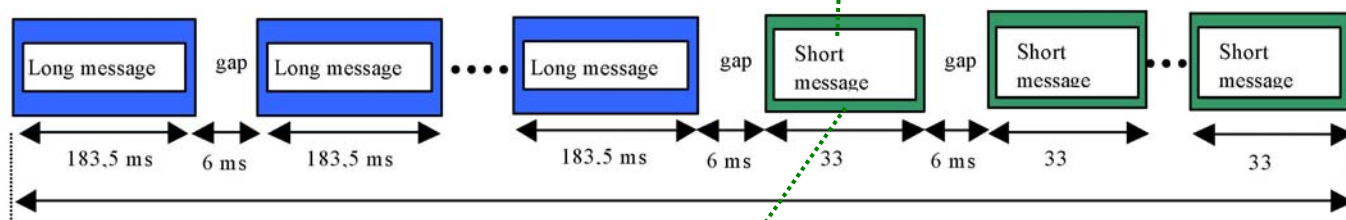
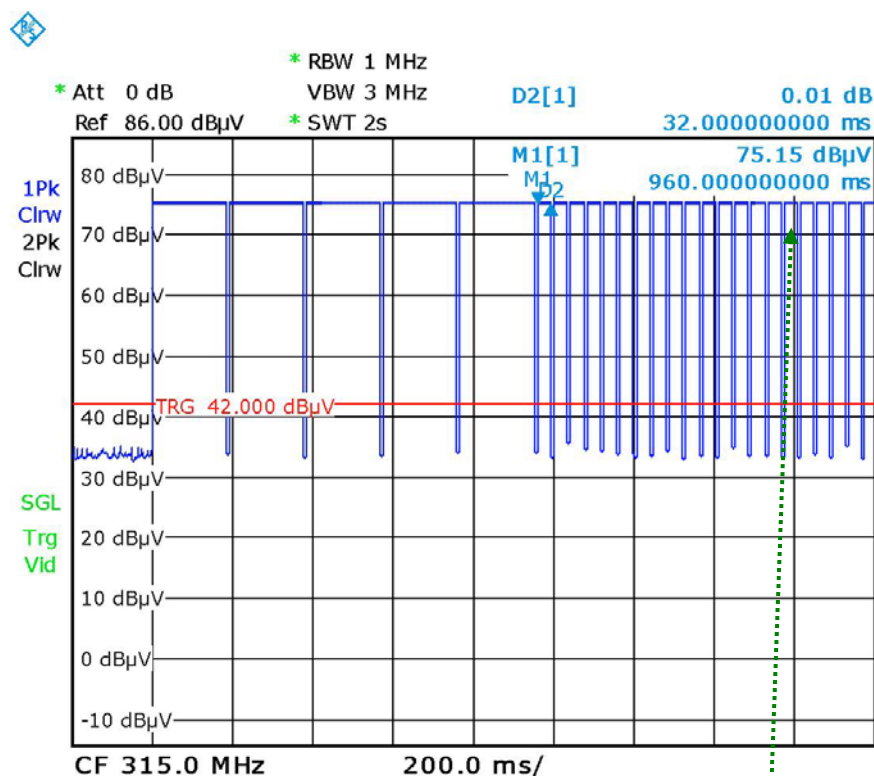


Averaging correction factor:

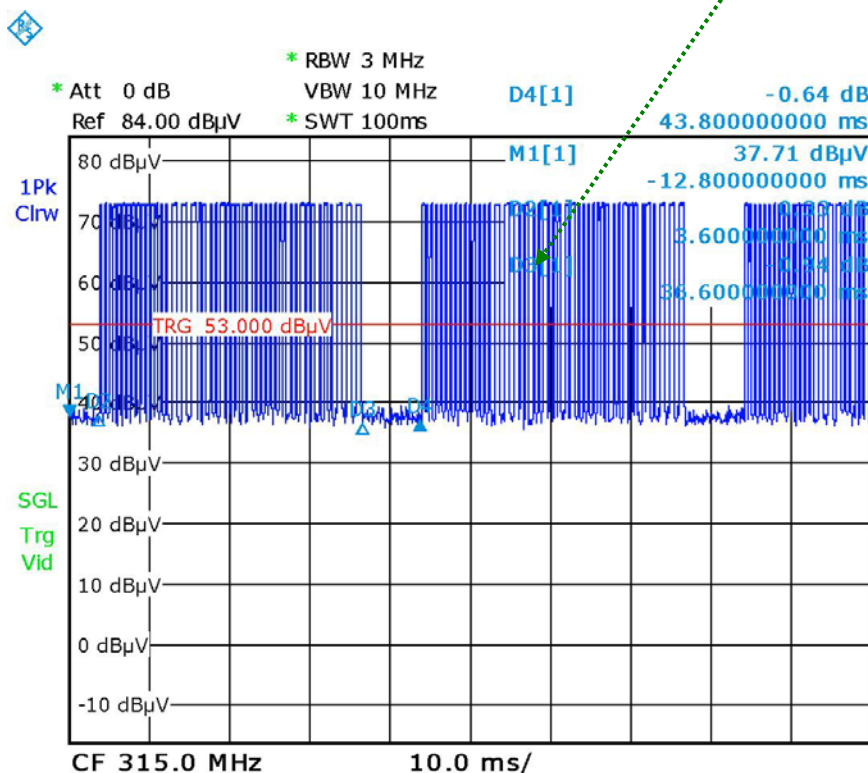
$$20\log (TX_{on}/100ms) =$$

$$20\log (51ms/100ms) = -5.85 \text{ dB}$$

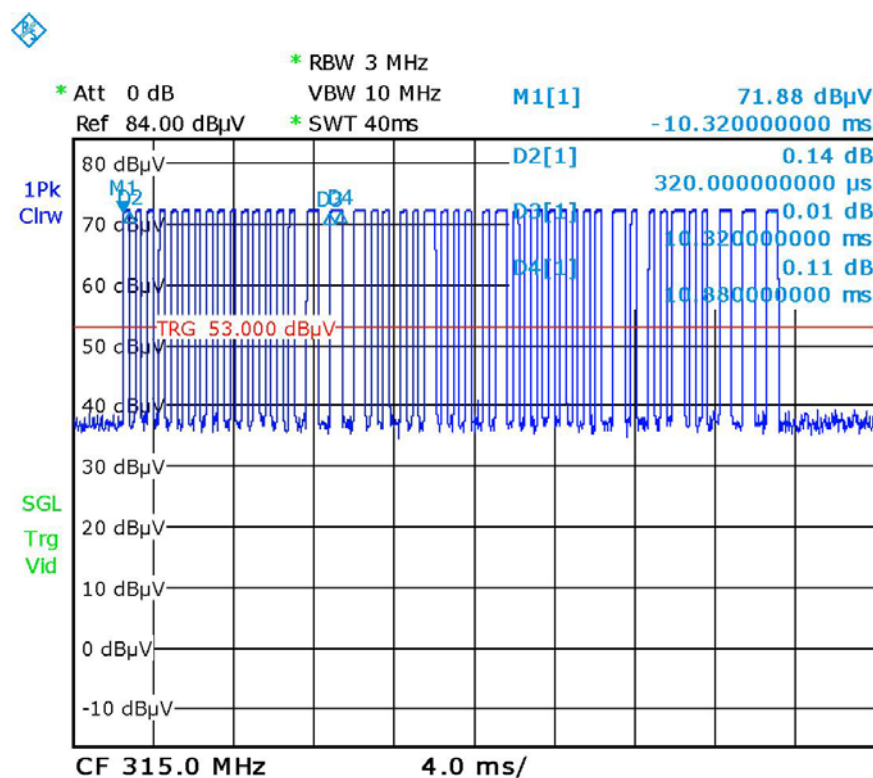
Short message



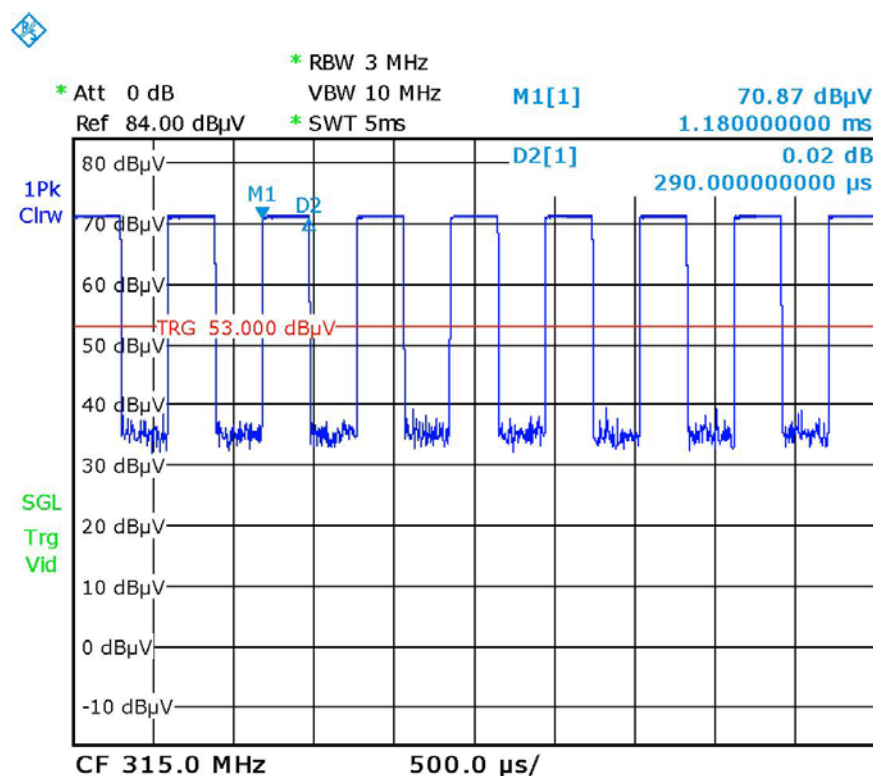
Short message = 33.0 ms



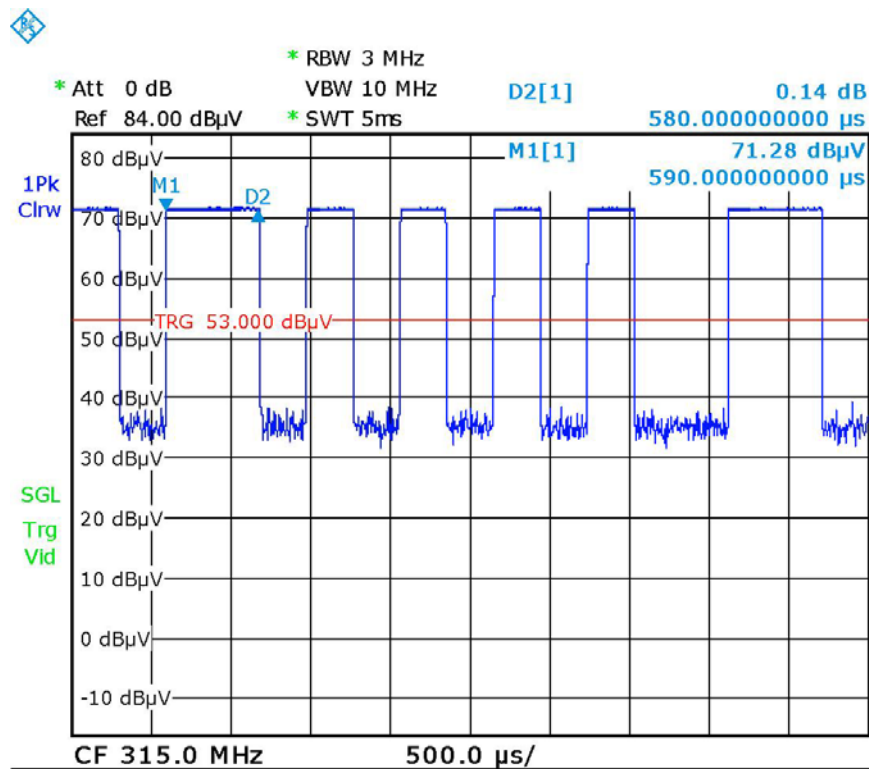
Short messages



One short message
with
37 type 1 pulses
and
10 type 2 pulses



Type 1 pulse = 290 μs



Type 2 pulse = 580 μs

Worst case transmission time in a 100 ms periode:

Short message block 1 = 37 * Type 1 pulse + 10 * Type 2 pulse
= 37 * 290 μs + 10 * 580μs = 16.53 ms

Short message block 2 = 40 * Type 1 pulse + 9 * Type 2 pulse
= 40 * 290 μs + 9 * 580μs = 16.82 ms

Short message block 3 = 19 * Type 1 pulse + 4 * Type 2 pulse
= 39 * 290 μs + 9 * 580μs = 7.83 ms

Total transmission time = 41.18 ms

Averaging correction factor:

$$20\log (TX_{on}/100ms) =$$

$$20\log (41.2ms/100ms) = -7.70 \text{ dB}$$

Worst case, Averaging correction factor:

$$20\log (TX_{on}/100ms) =$$

$$20\log (51ms/100ms) = -5.85 \text{ dB}$$