

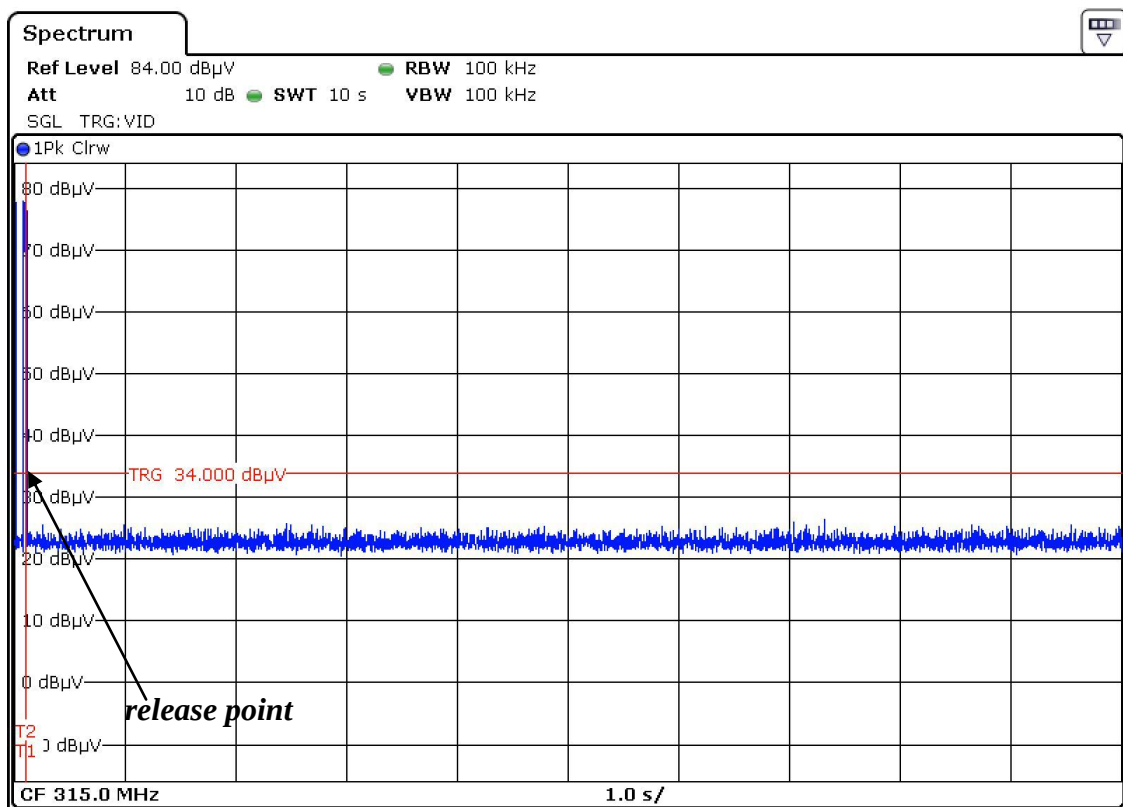
Annex no. 11

Periodic Operation Characteristics

RSS-210 Section A1.1.1 (1) / FCC Section 15.231 (a)(1): A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

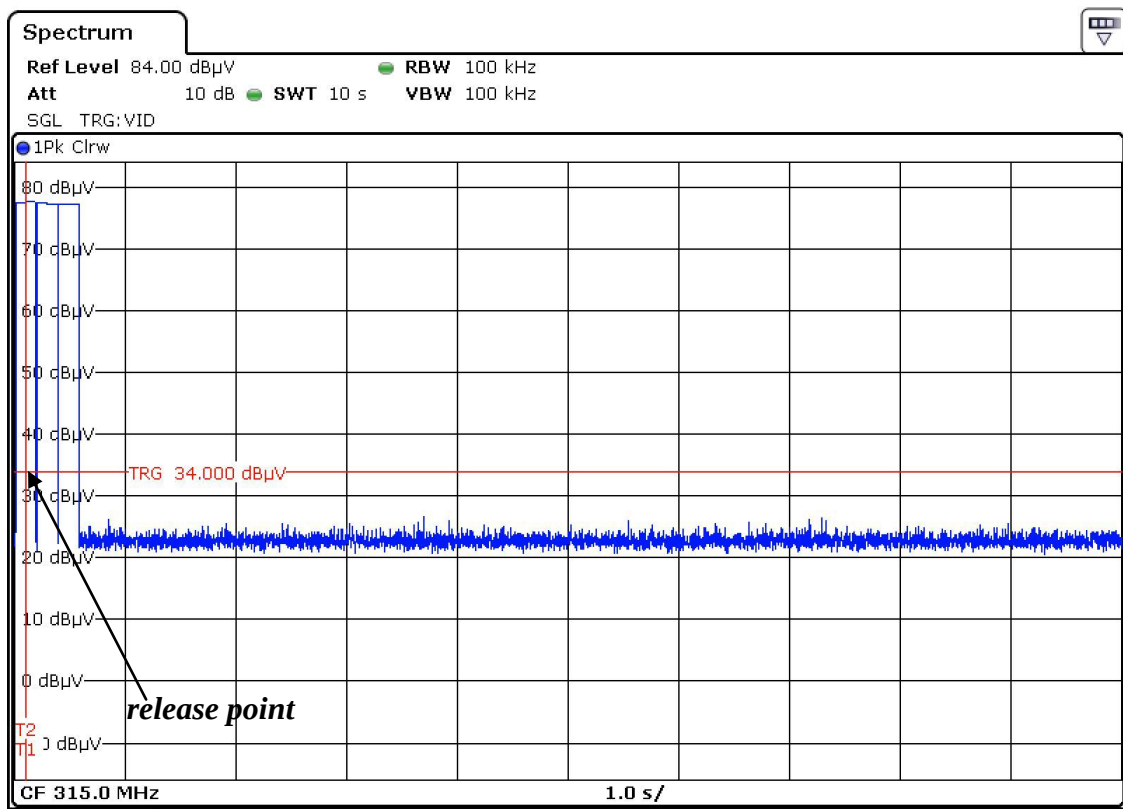
Transmission time

Open button



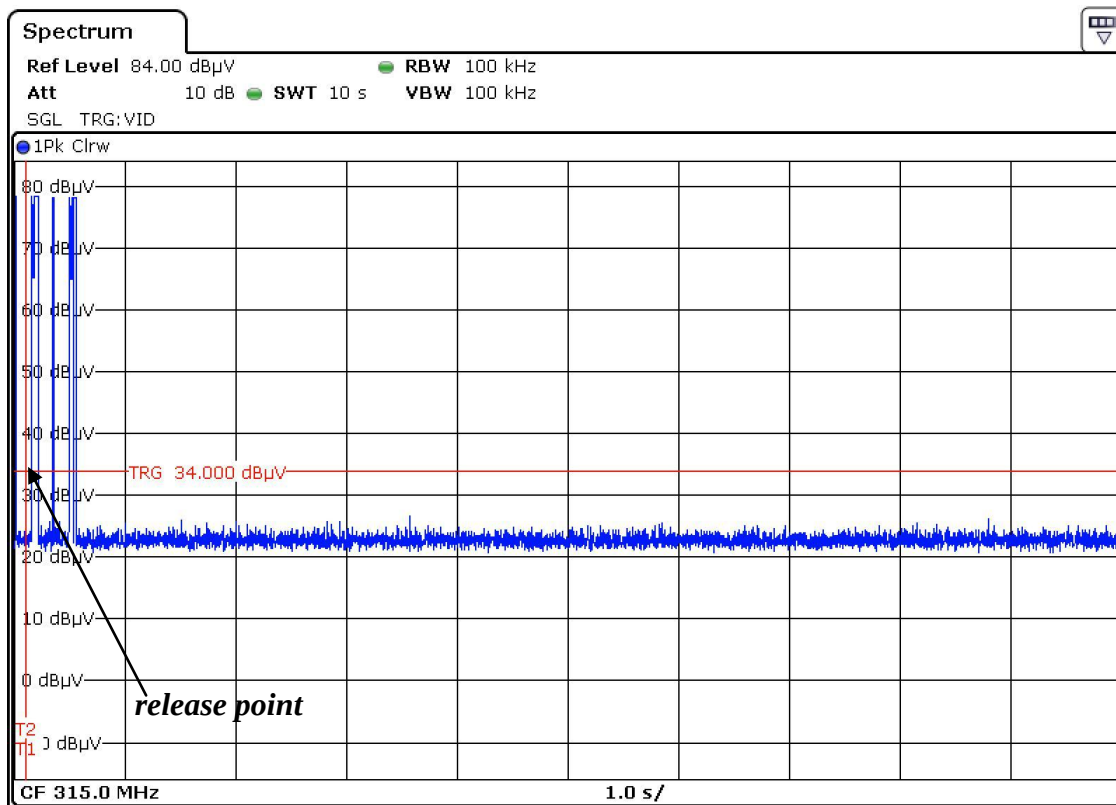
Transmission time

Close button

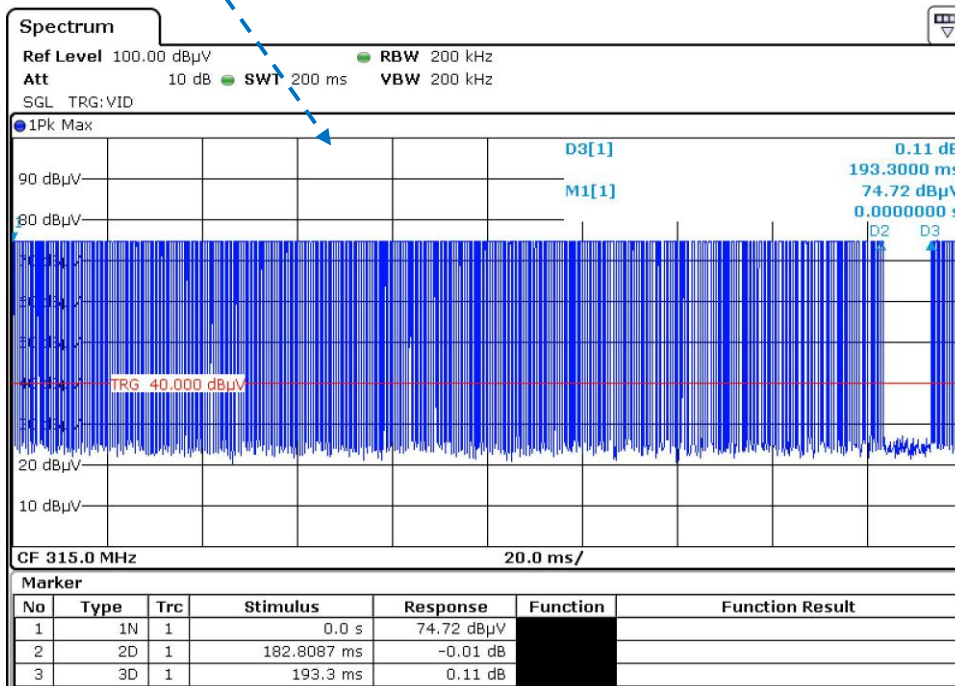
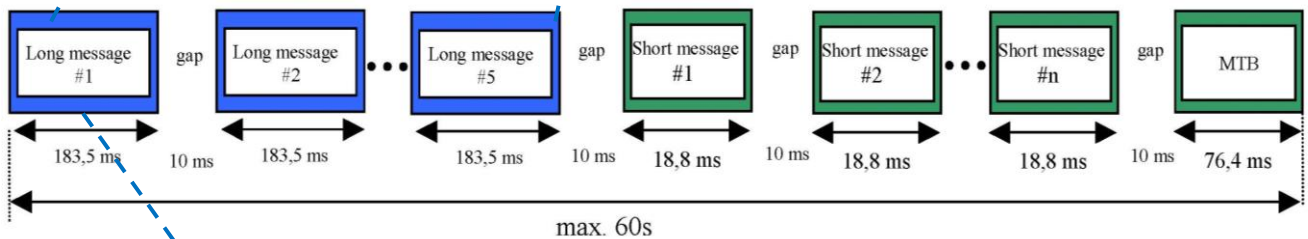
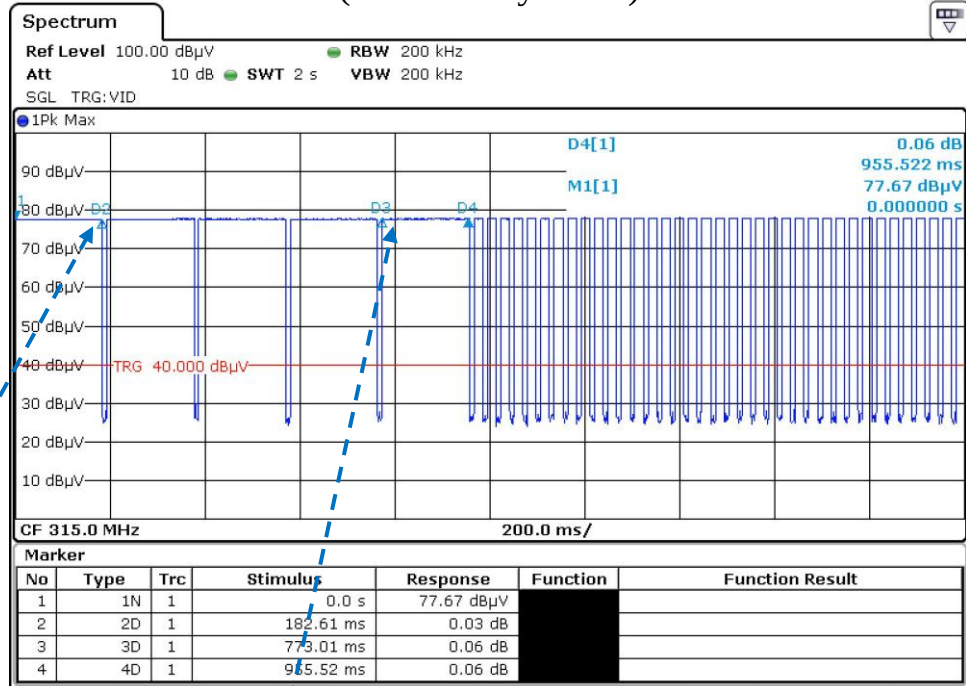


Transmission time

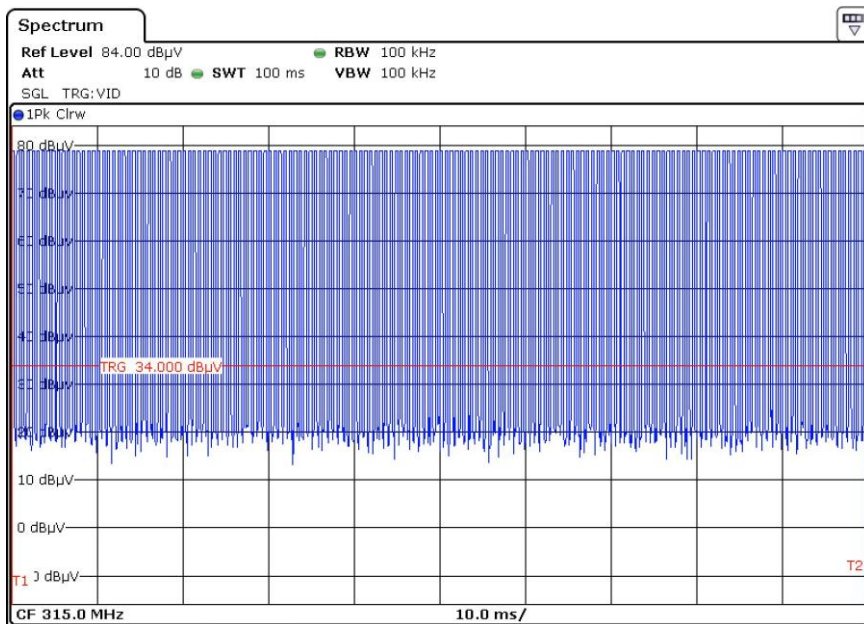
Trunk button



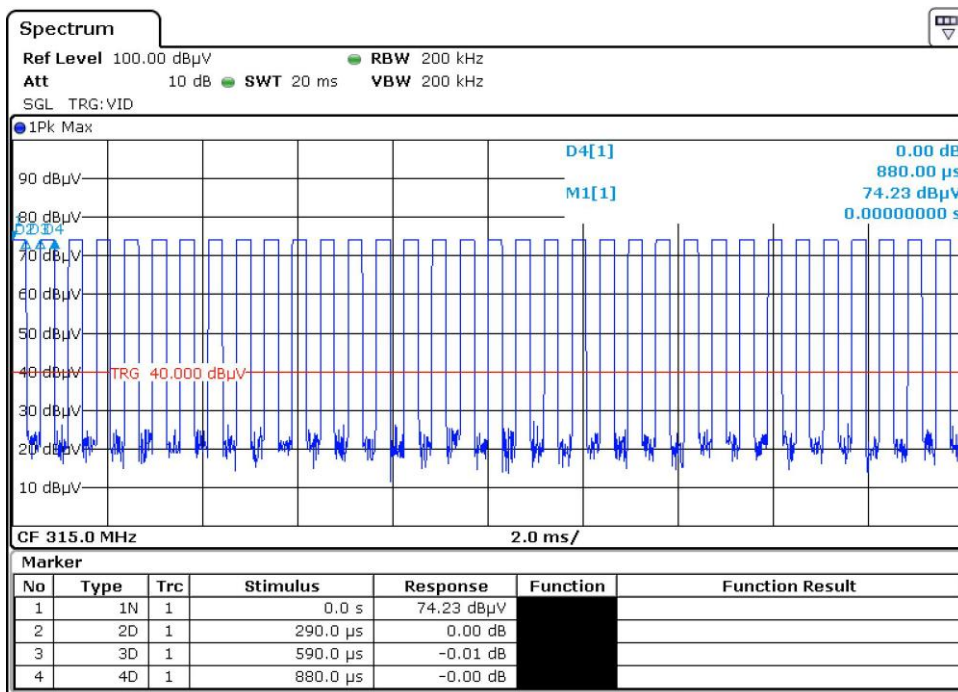
Transmission times (Active entry mode)



Long message = 182.81 ms



Long message = 182.81 ms
Single pulse = 290µs Ø
172 pulses a' 290µs = 49.9 ms

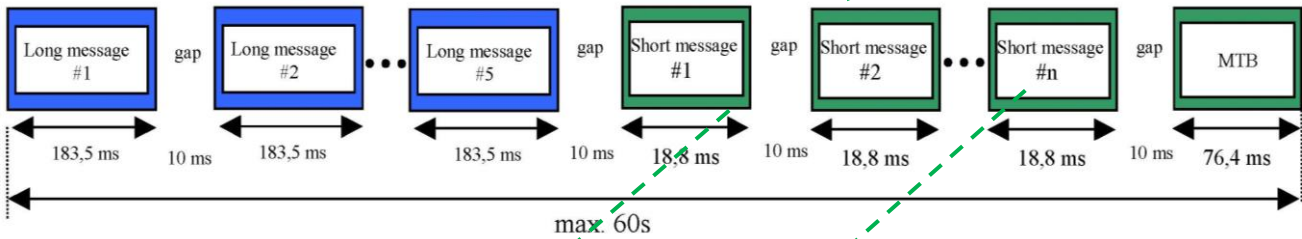
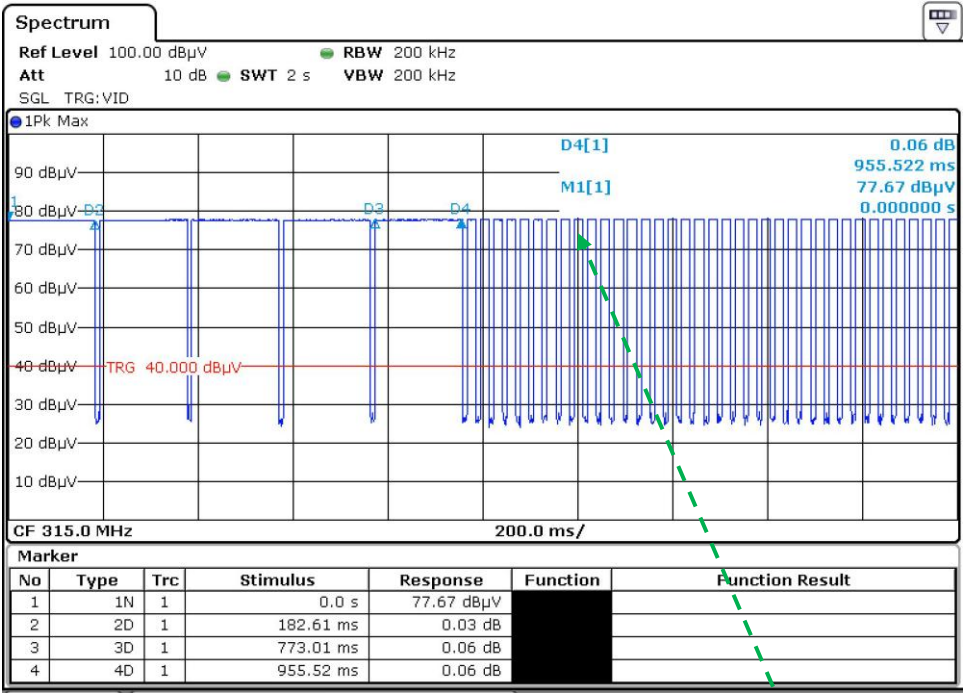


Averaging correction factor:

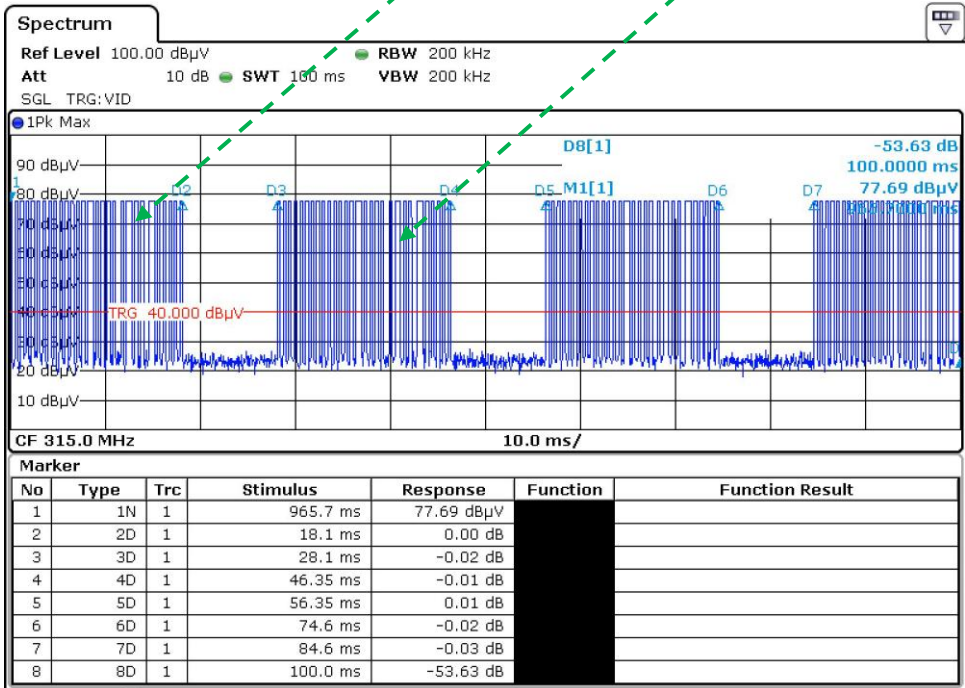
$$20\log (TX_{on}/100ms) =$$

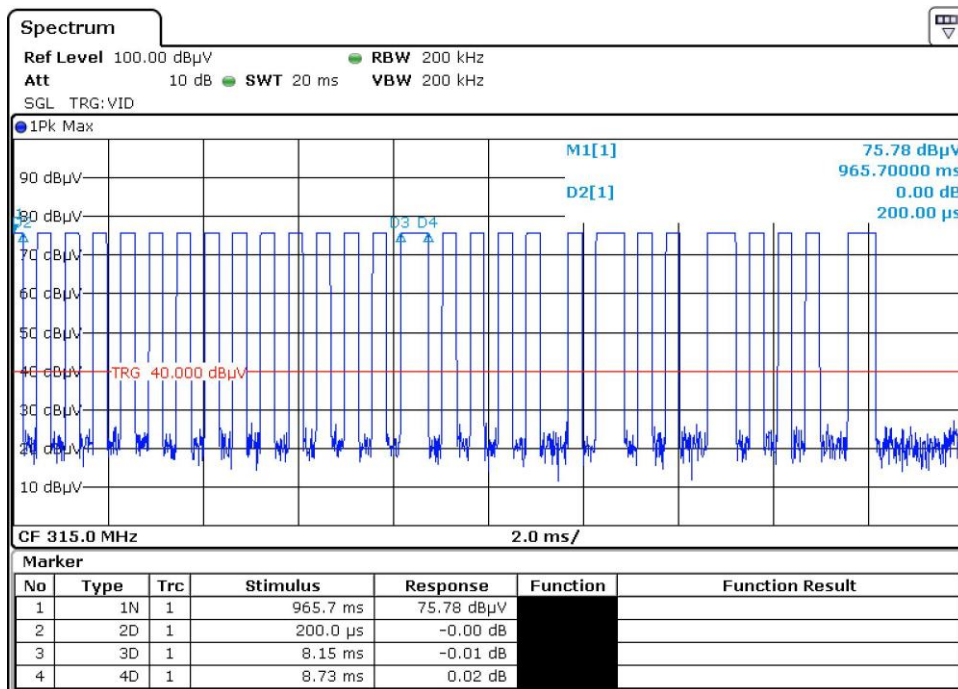
$$20\log (49.9ms/100ms) = -6.0 \text{ dB}$$

Short message



Short message = 33.0 ms





One short message
with
24 type 1 pulses
and
4 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 = 24 * Type 1 pulse + 4 * Type 2 pulse
= 24 * 290 μs + 4 * 580 μs = 9.28 ms

Short message block 2 = 24 * Type 1 pulse + 4 * Type 2 pulse
= 24 * 290 μs + 4 * 580 μs = 9.28 ms

Short message block 3 = 24 * Type 1 pulse + 4 * Type 2 pulse
= 24 * 290 μs + 4 * 580 μs = 9.28 ms

Short message block 4 = 21 * Type 1 pulse + 3 * Type 2 pulse
= 21 * 290 μs + 3 * 580 μs = 7.83 ms

Total transmission time = 35.67 ms

Averaging correction factor:

$20\log(TX_{on}/100ms) = 20\log(35.67ms/100ms) = -8.95 \text{ dB}$

Worst case, Averaging correction factor:

$20\log(TX_{on}/100ms) = 20\log(49.9ms/100ms) = \underline{\underline{-6.0 \text{ dB}}}$

All buttons send the same output power and use the same message format. The only difference is the sequence of individual pulses.