

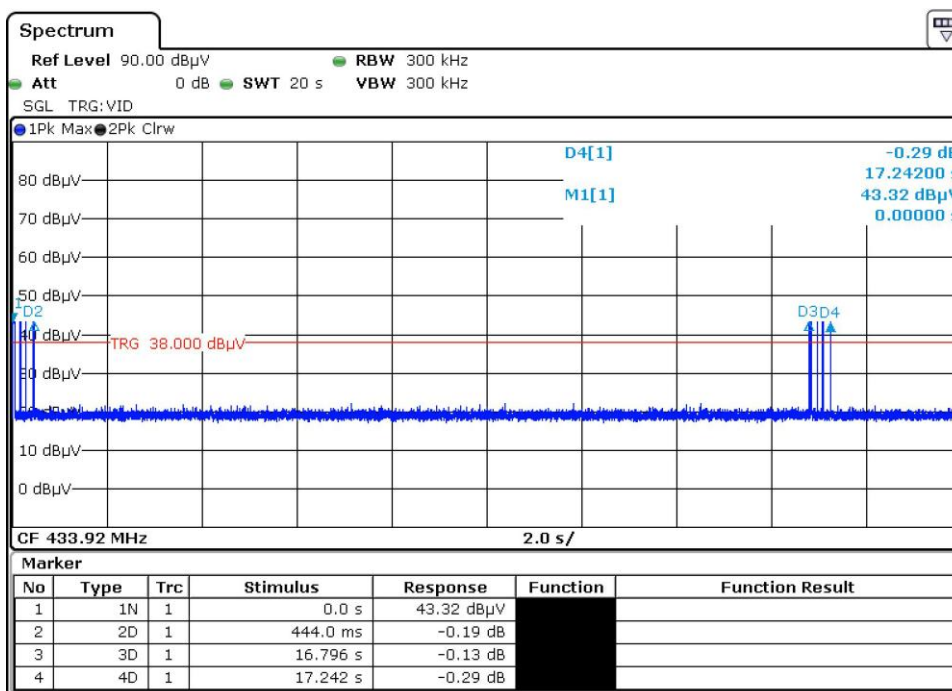
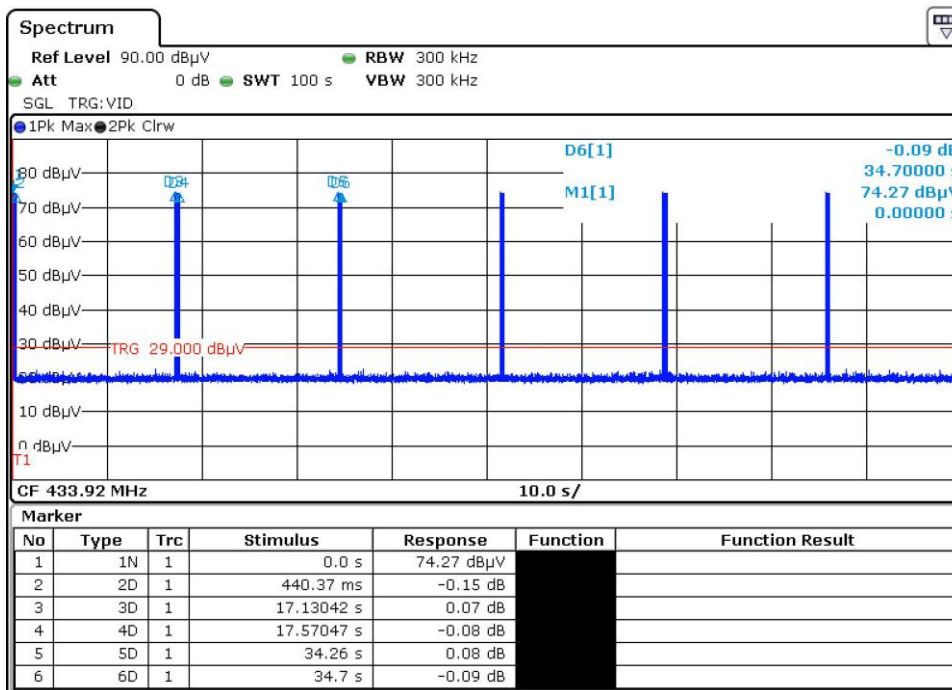
Annex no. 11

Periodic Operation Characteristics

Transmission times

15.231 (e) Intentional radiators may operate at a periodic rate exceeding that specified in paragraph 15.231 (a) and may be employed for any type of operation, including operation prohibited in paragraph 15.231 (a), provided the intentional radiator complies with the provisions of paragraphs 15.231 (b) through (d) of this Section, except the field strength table in paragraph 15.231 (b) is replaced.

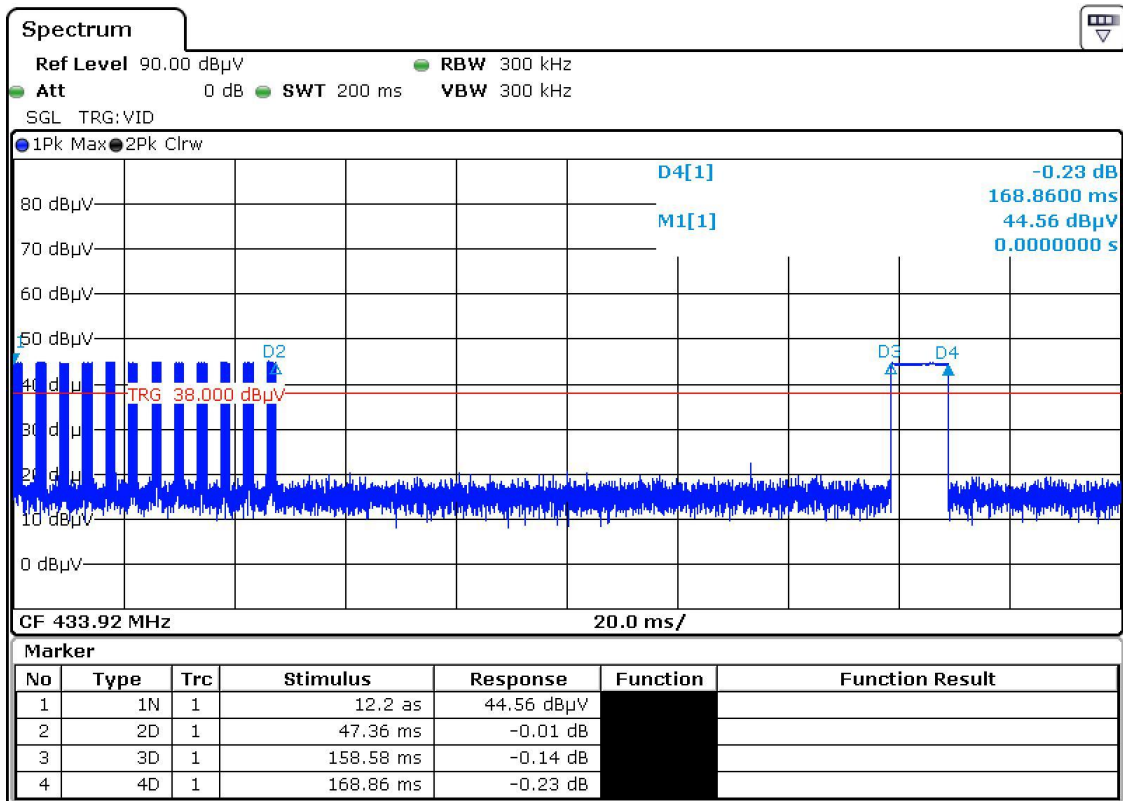
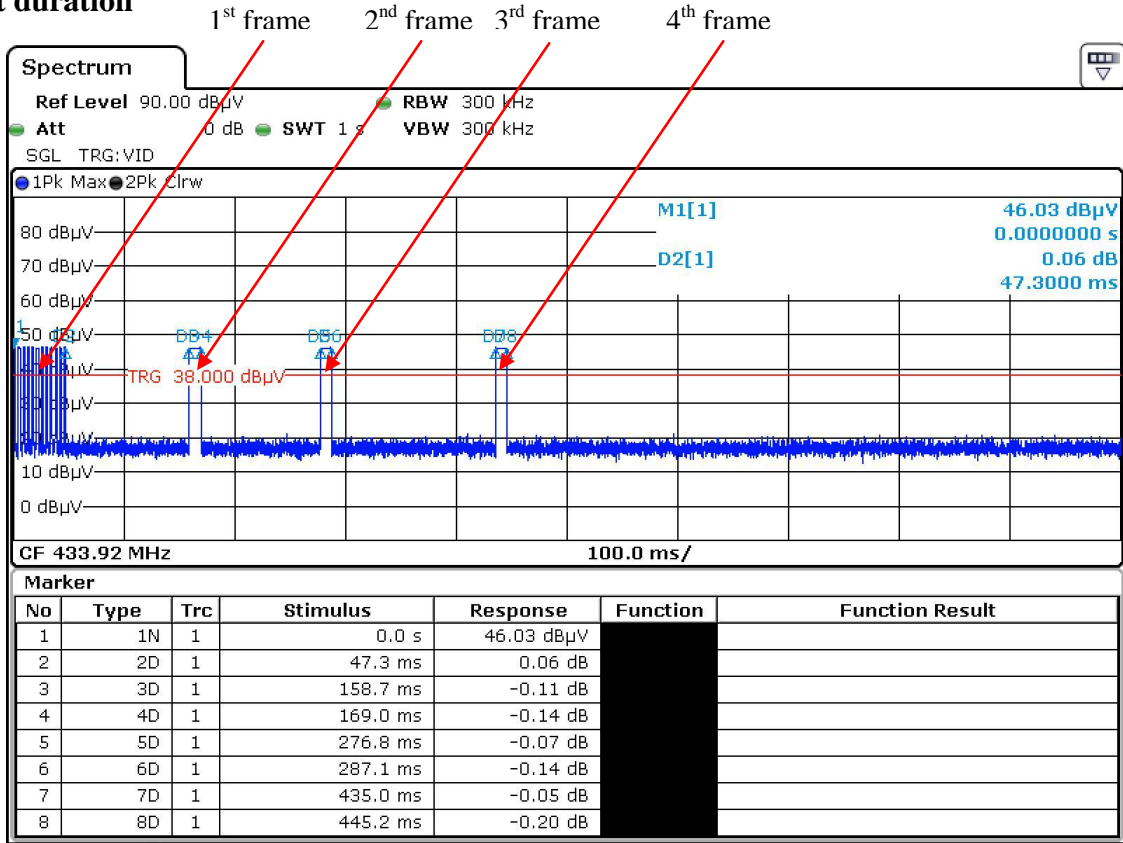
In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.



- Limit for transmission time per burst = 1 s**
- Maximum transmission time per burst = 446 ms**
- Minimum silent period = 16.352 s**
- Limit for silent period = 30 * 446 ms = 13.38 s**

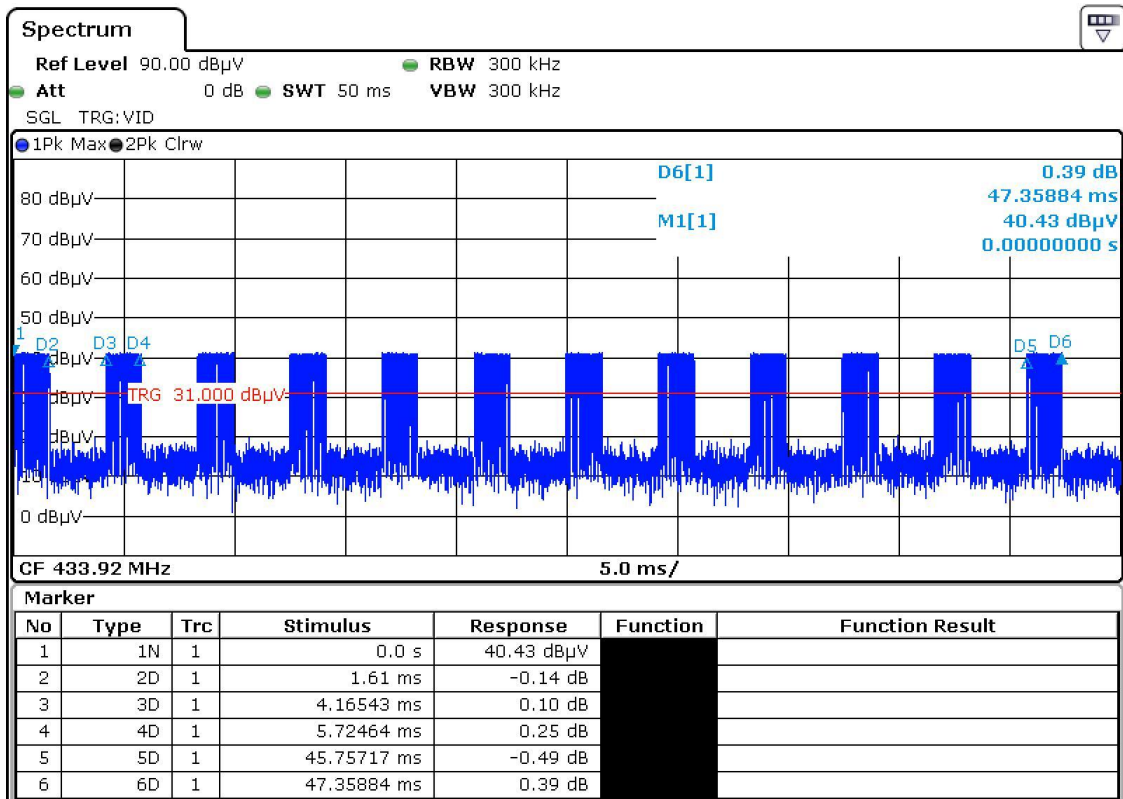
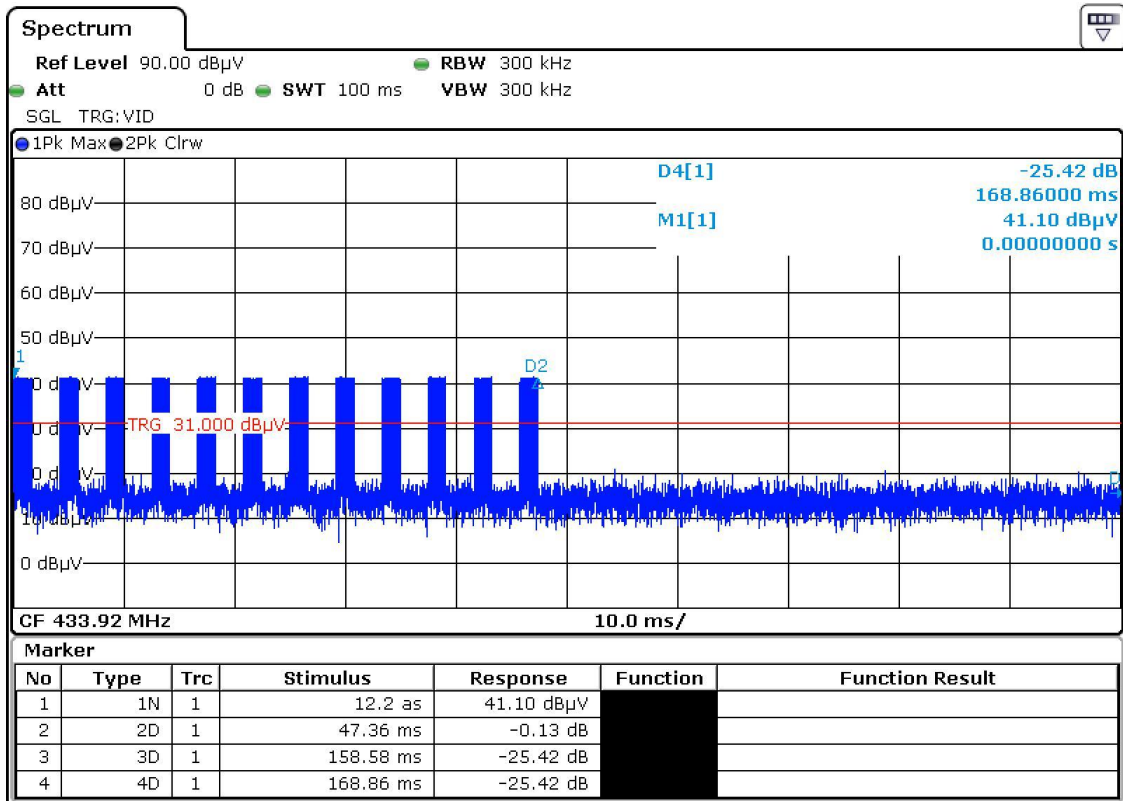
Averaging factor

1.) Burst duration

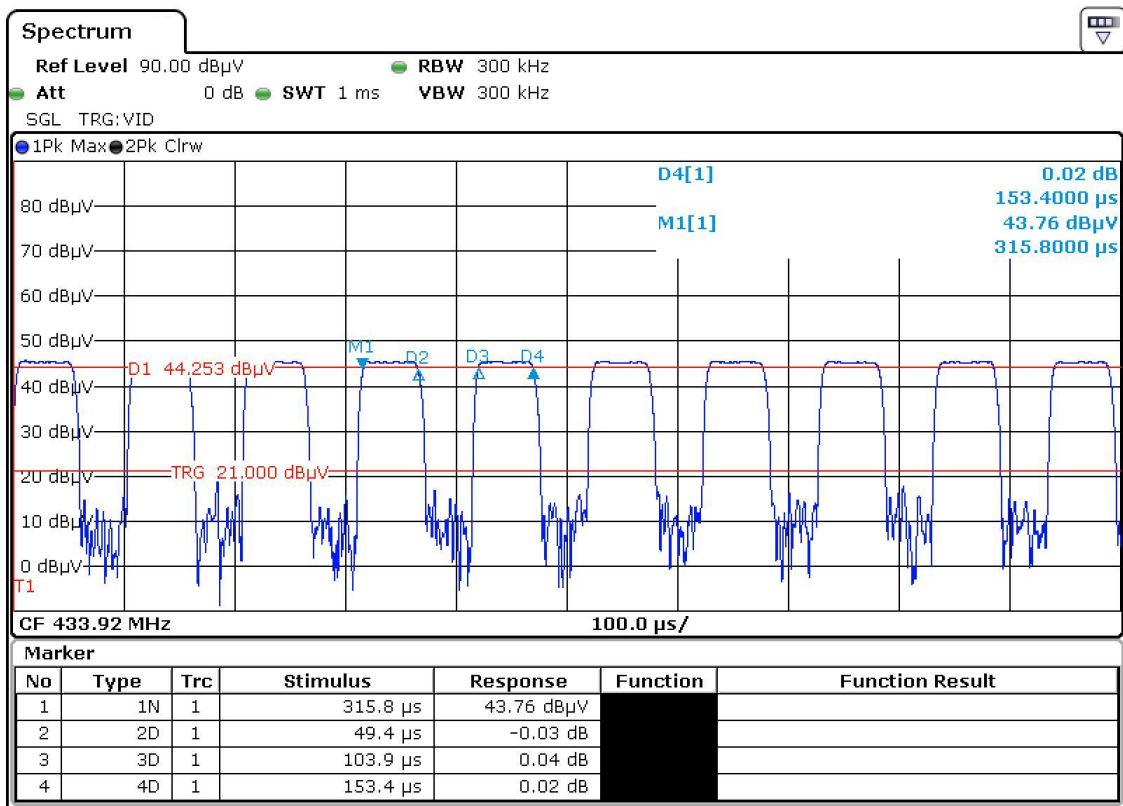
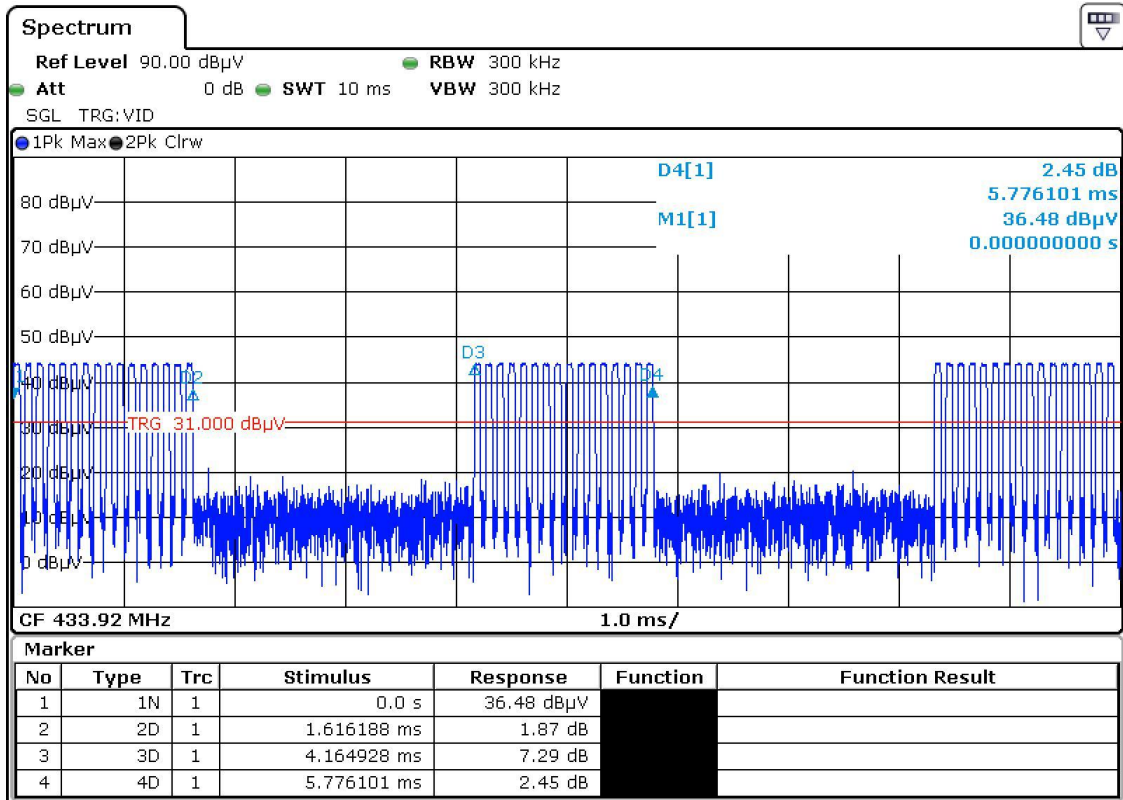


2.) Frame durations

2a.) First frame



2a.) First frame



2a.) First frame

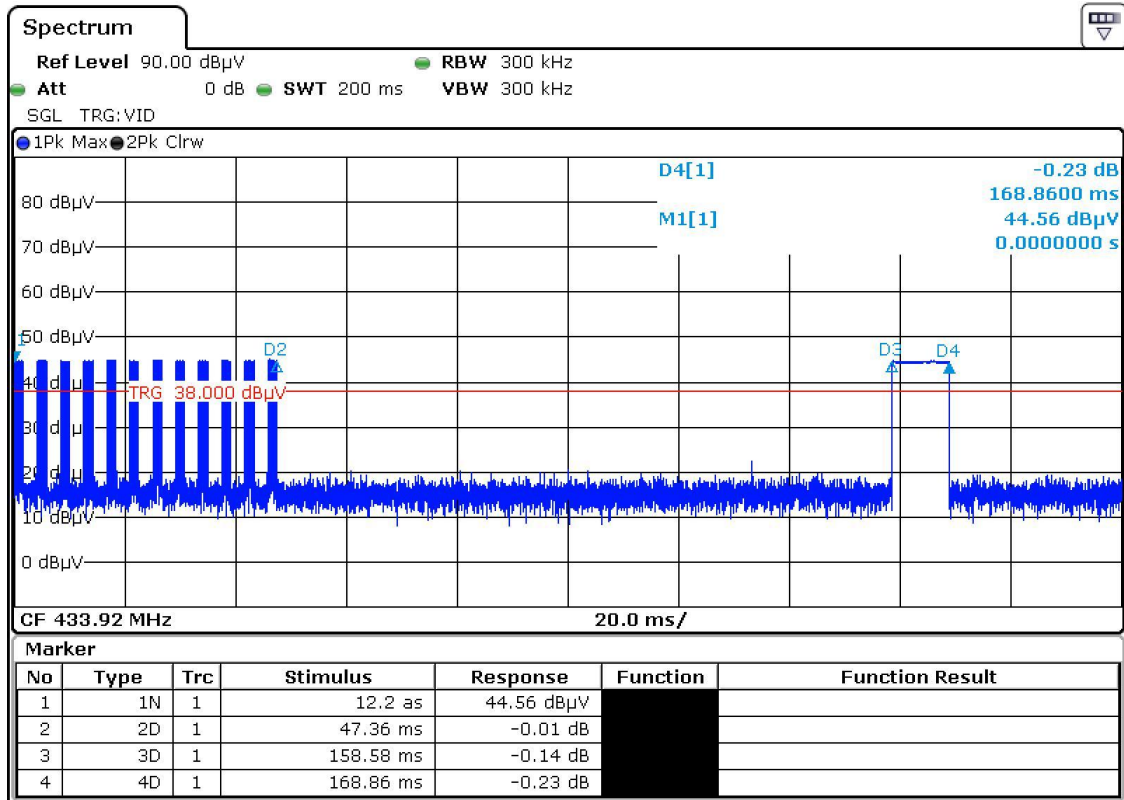
Single Bit timing = 49.4 μ s per pulse

Bits per single package = 16

Packages per first frame = 12

Frame duration = single bit * 16 * 12
= 49.4 μ s * 16 * 12
= 9.485 ms

2b.) Second frame (= worst case transmission in a 100ms time period)



Maximum transmission time in a 100ms time period = 10.28 ms

Maximum transmitting duration in every 100ms
period: 10.28 ms

Averaging factor = $20 \times \log(10.28/100) = -19.76 \text{ dB}$