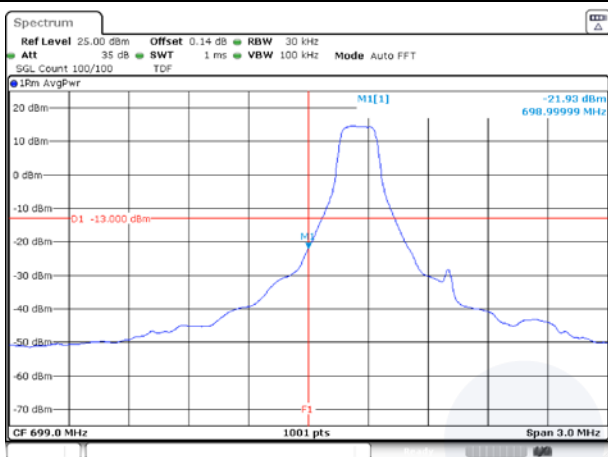


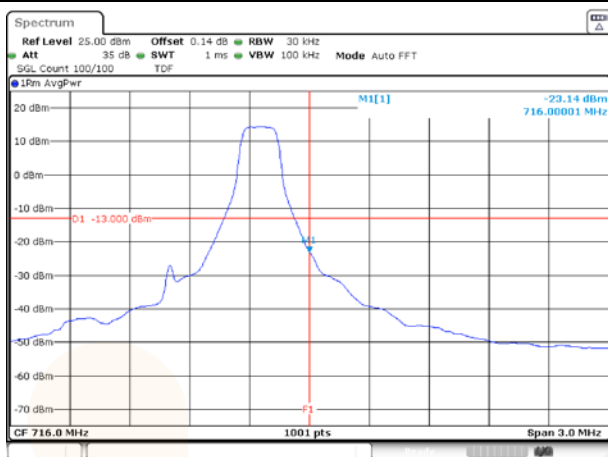
Test mode: LTE B12

1.4M BW QPSK

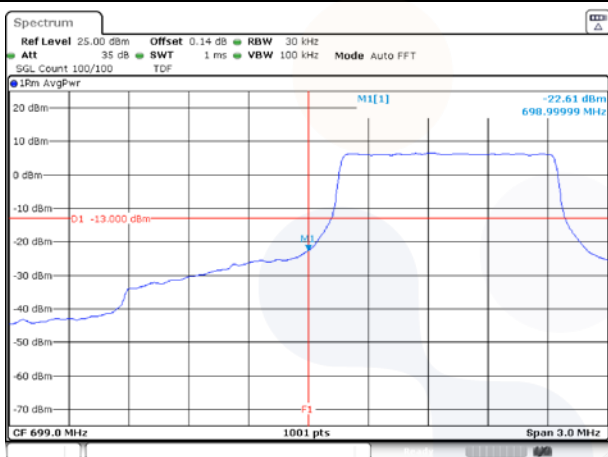
Low channel 1RB



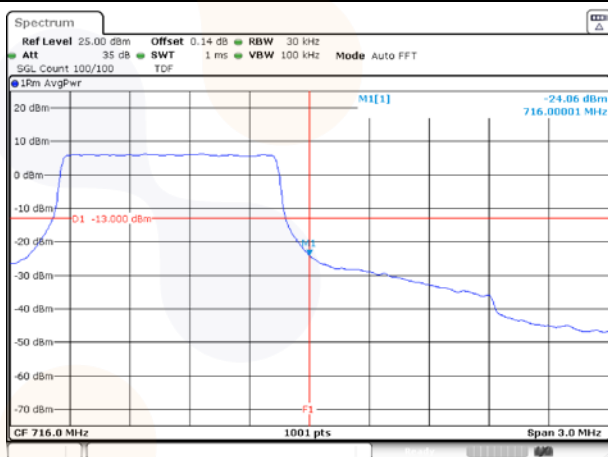
High channel 1RB



Low channel FRB

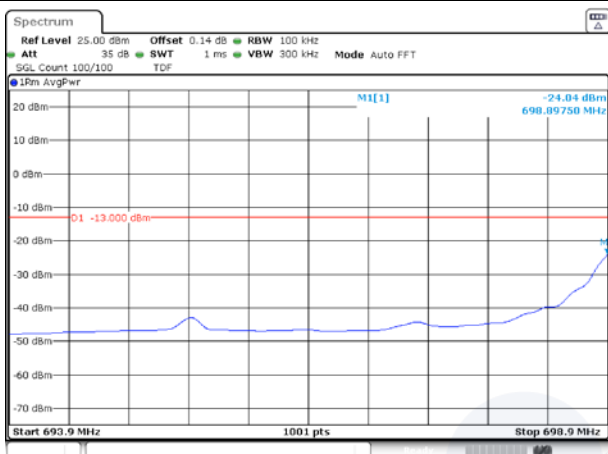


High channel FRB

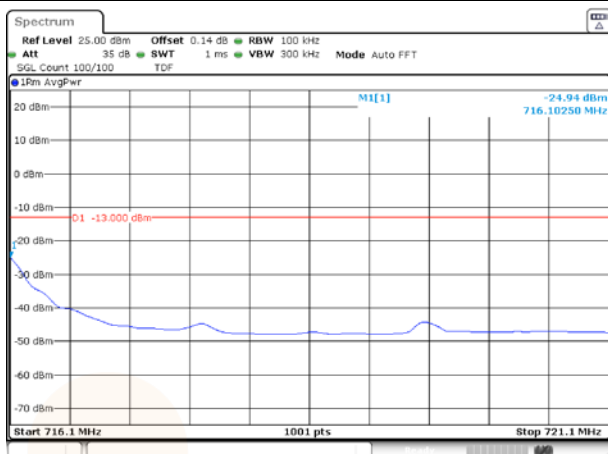


1.4M BW QPSK

Lower extended 1RB



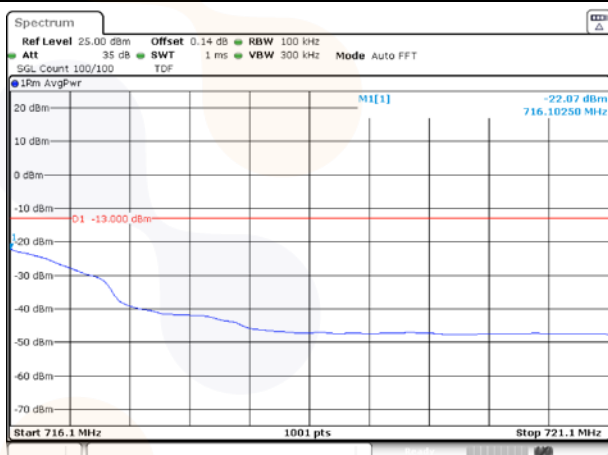
Upper extended 1RB



Lower extended FRB

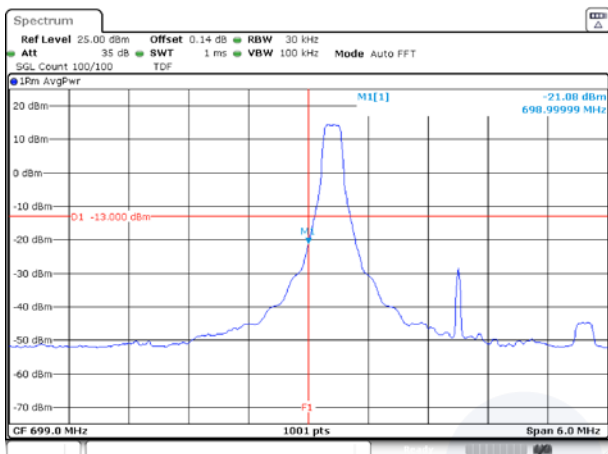


Upper extended FRB

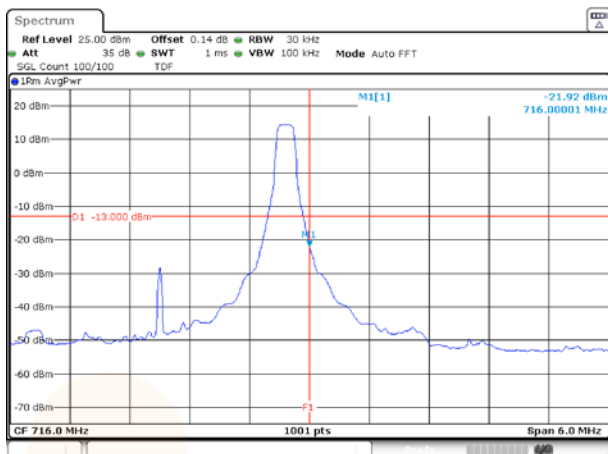


3M BW QPSK

Low channel 1RB



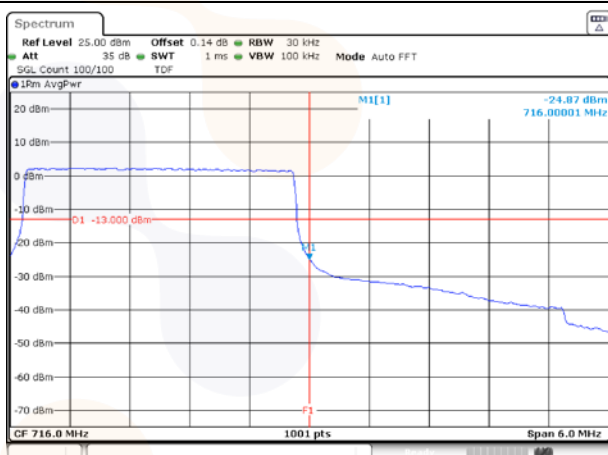
High channel 1RB



Low channel FRB

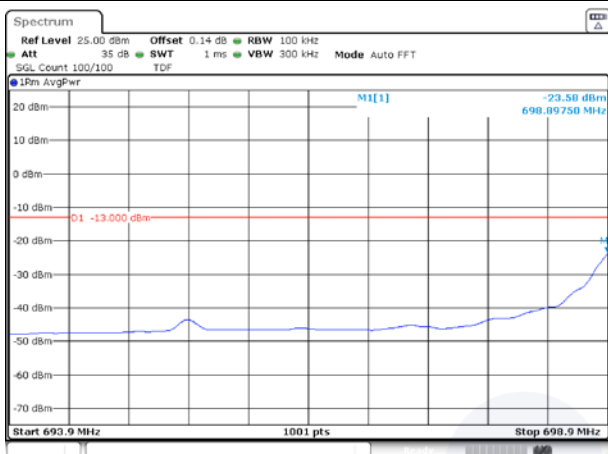


High channel FRB

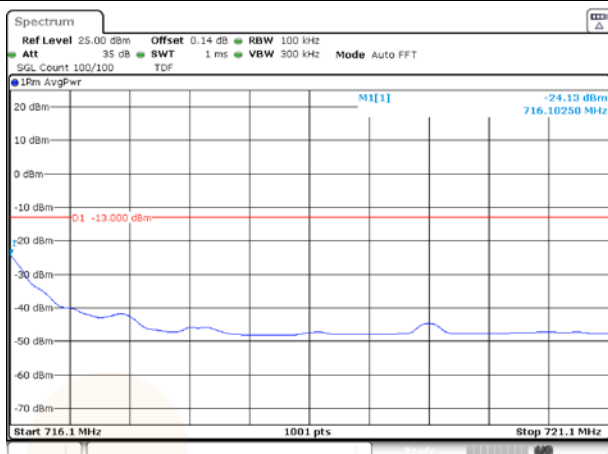


3M BW QPSK

Lower extended 1RB



Upper extended 1RB



Lower extended FRB

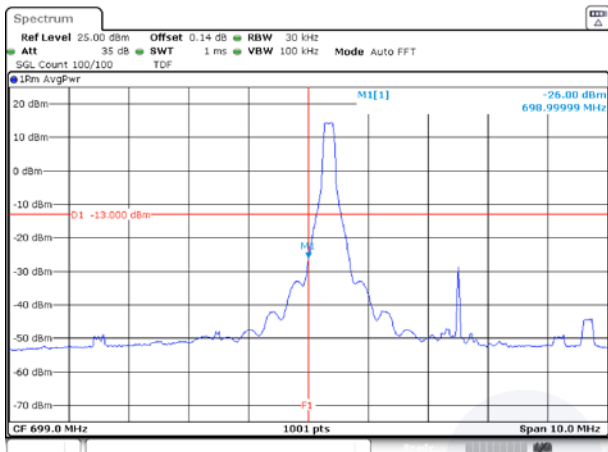


Upper extended FRB

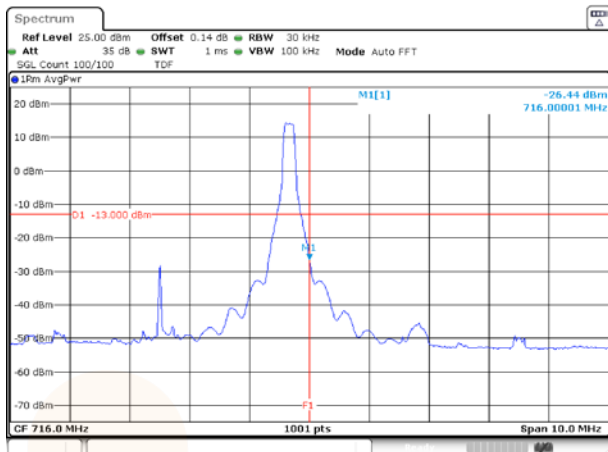


5M BW QPSK

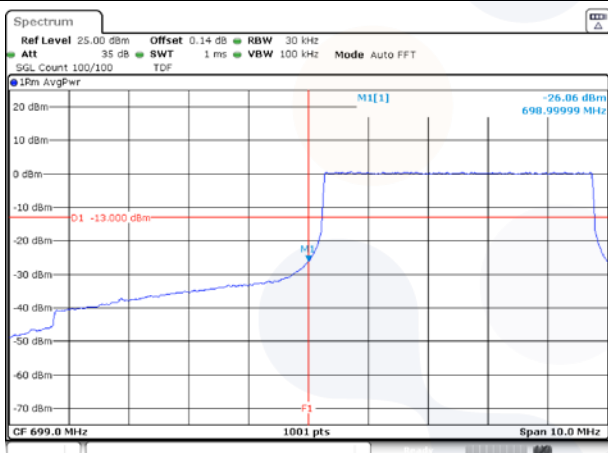
Low channel 1RB



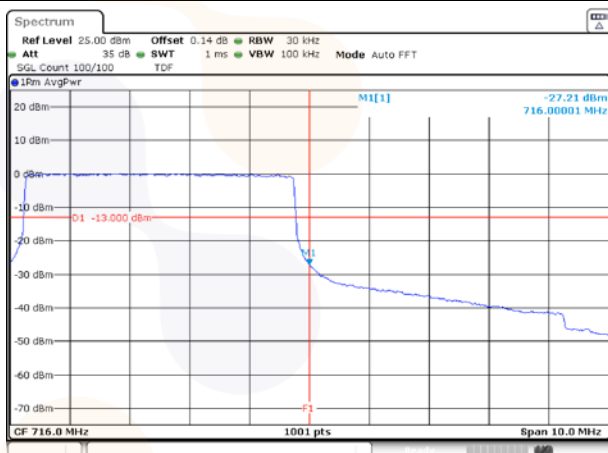
High channel 1RB



Low channel FRB

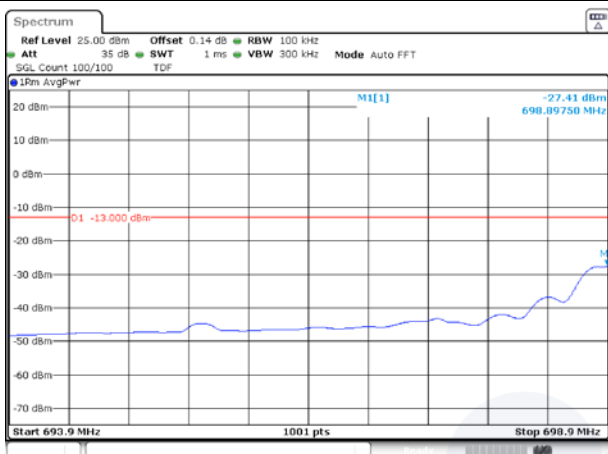


High channel FRB



5M BW QPSK

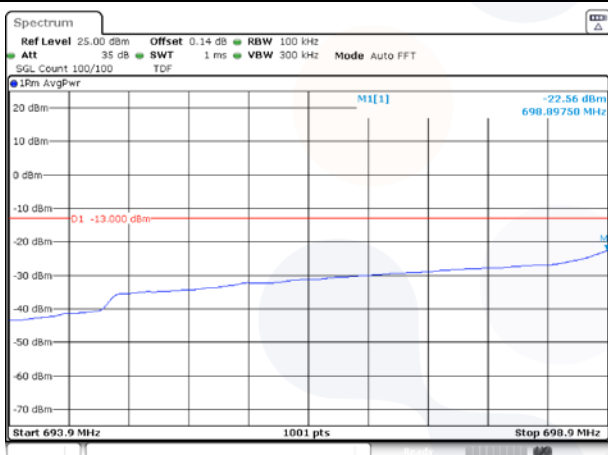
Lower extended 1RB



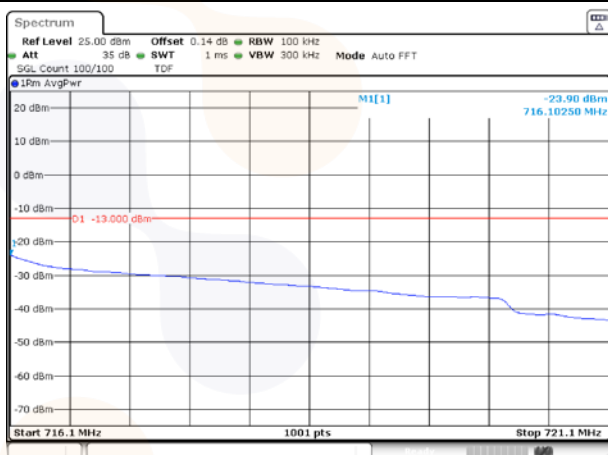
Upper extended 1RB



Lower extended FRB

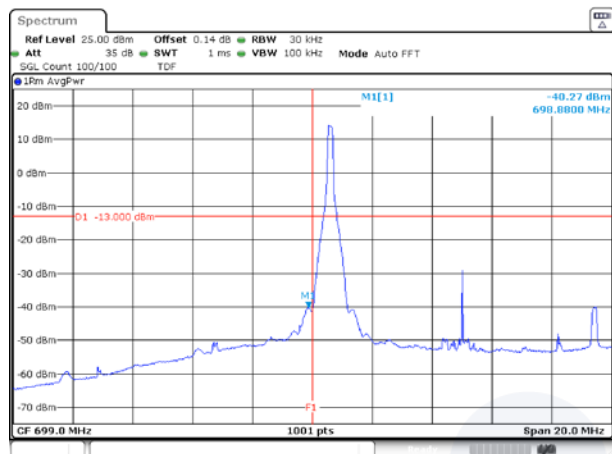


Upper extended FRB

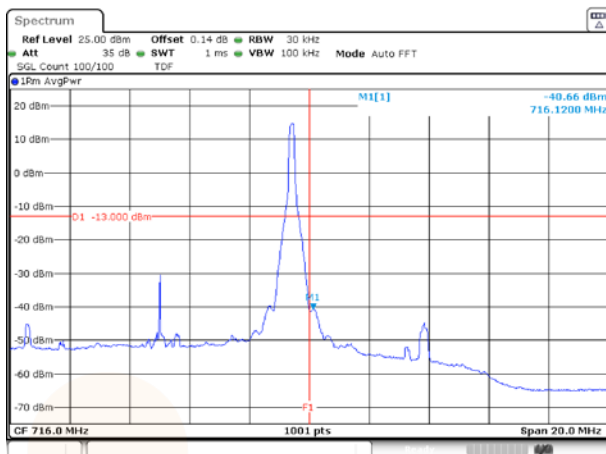


10M BW QPSK

Low channel 1RB



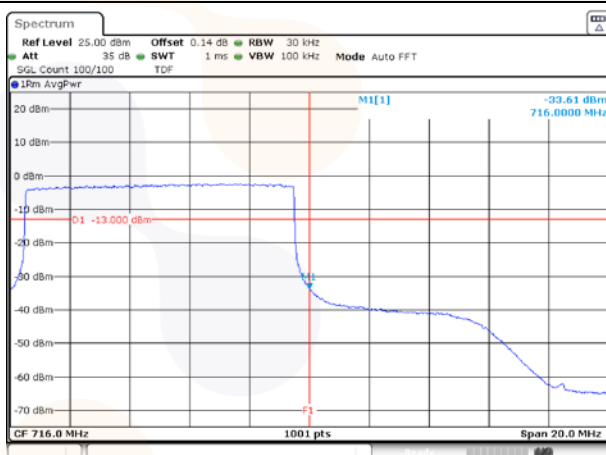
High channel 1RB



Low channel FRB

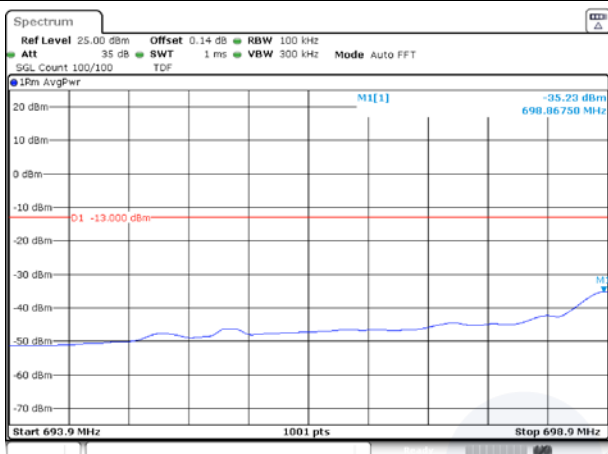


High channel FRB

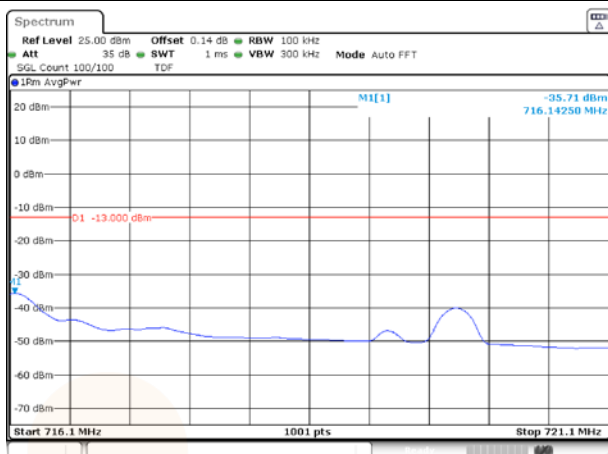


10M BW QPSK

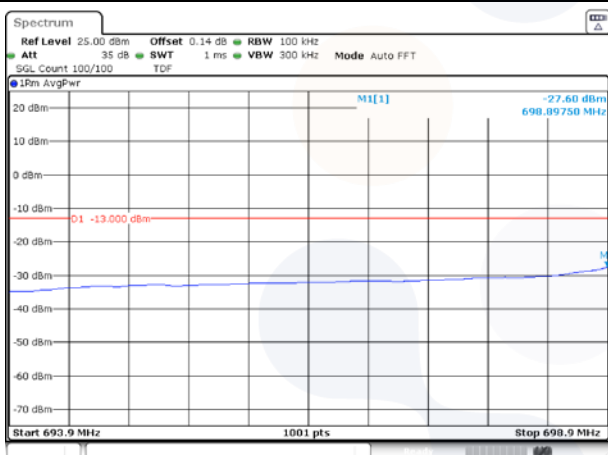
Lower extended 1RB



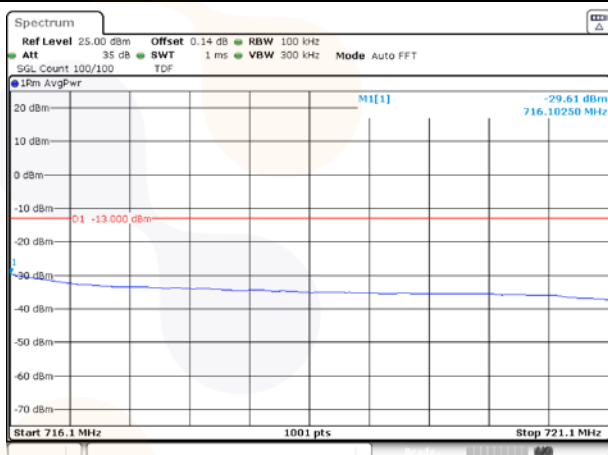
Upper extended 1RB



Lower extended FRB



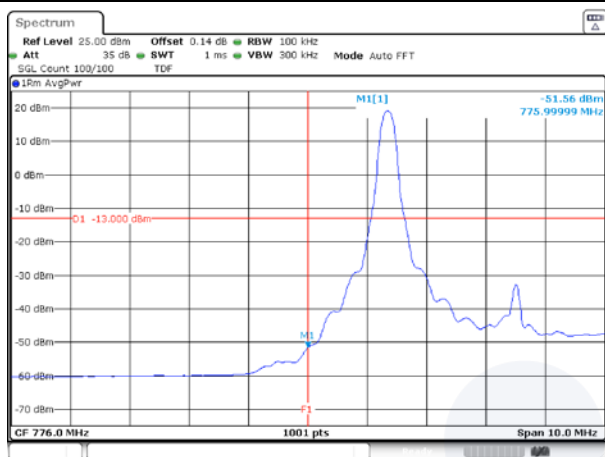
Upper extended FRB



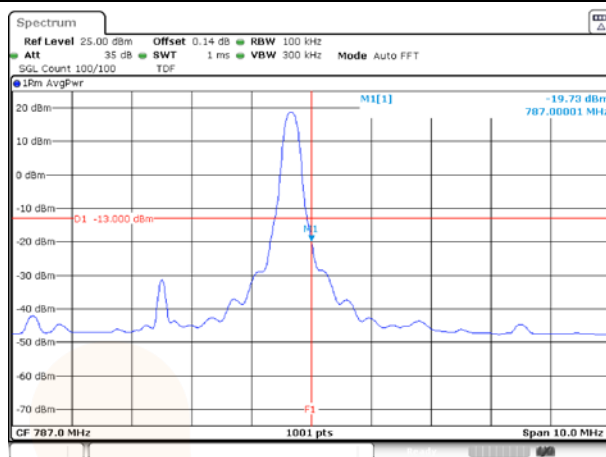
Test mode: LTE B13

5M BW QPSK

Low channel 1RB



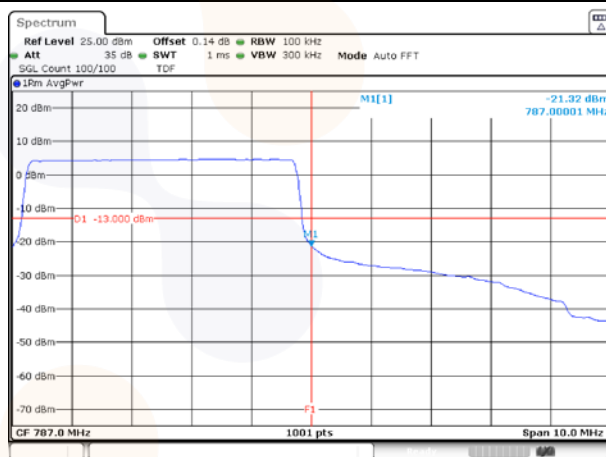
High channel 1RB



Low channel FRB

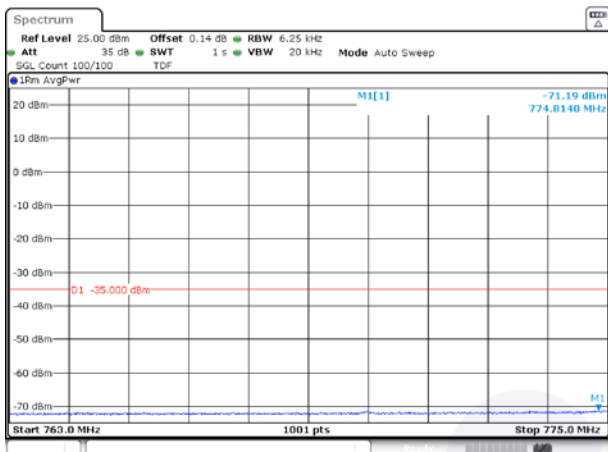


High channel FRB

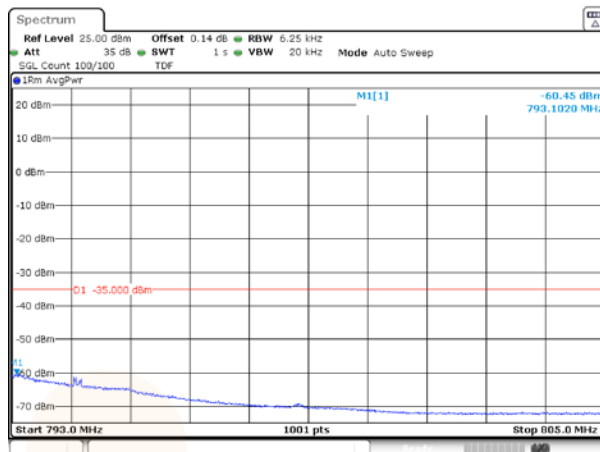


5M BW QPSK

Lower extended 1RB



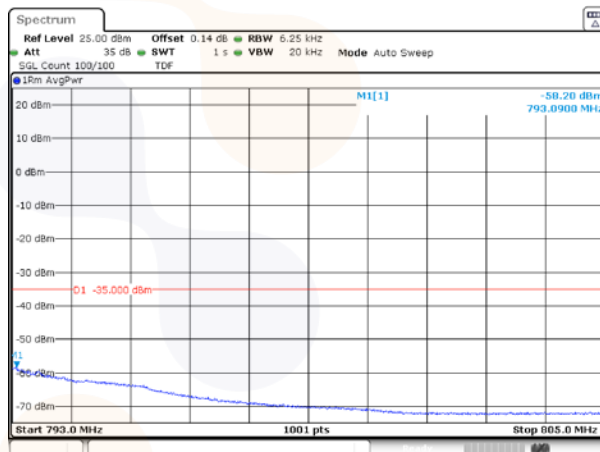
Upper extended 1RB



Lower extended FRB

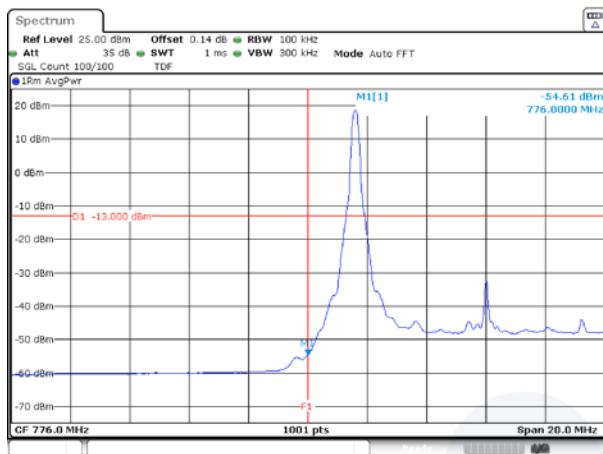


Upper extended FRB

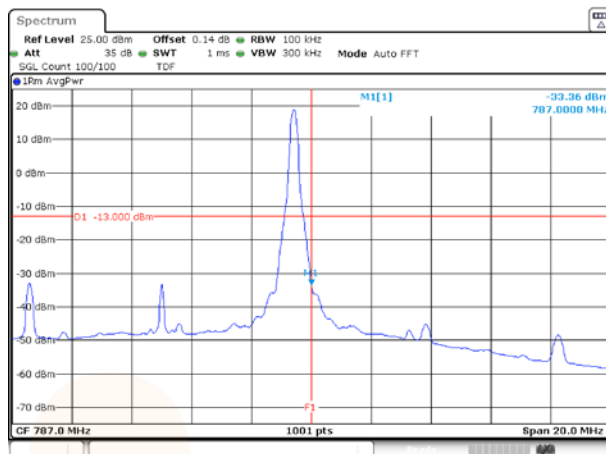


10M BW QPSK

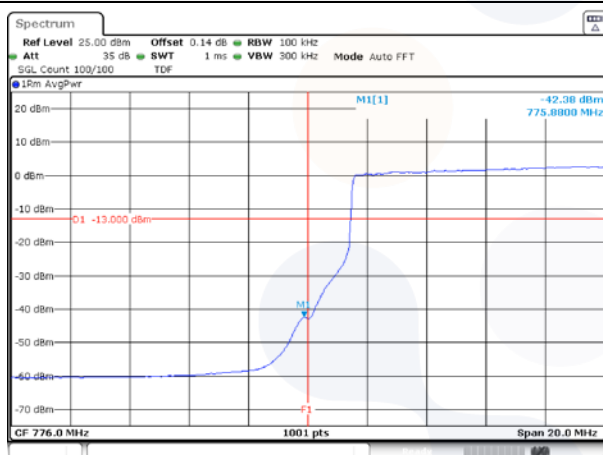
Middle channel Lower 1RB



Middle channel Upper 1RB



Middle channel Lower FRB

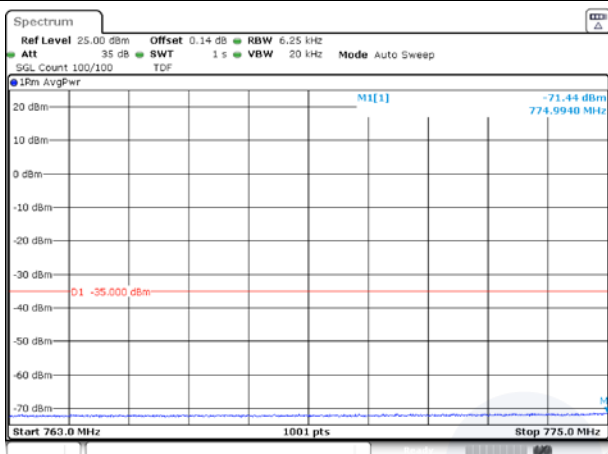


Middle channel Upper FRB

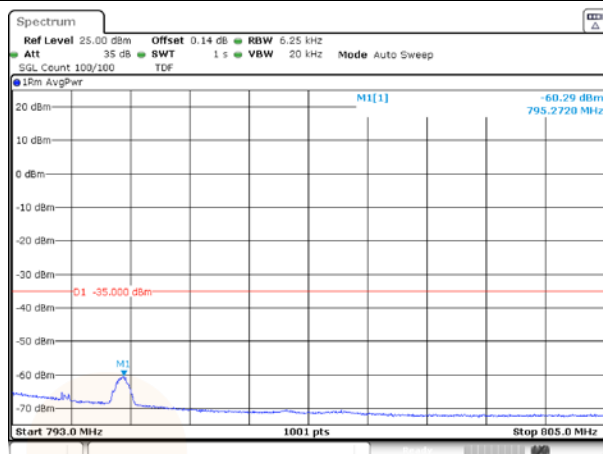


10M BW QPSK

Lower extended 1RB



Upper extended 1RB



Lower extended FRB



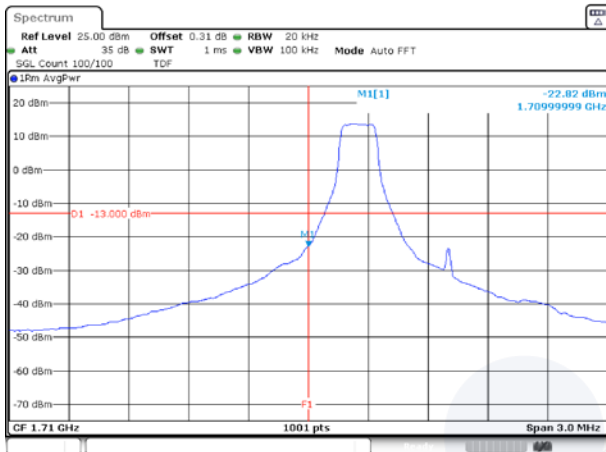
Upper extended FRB



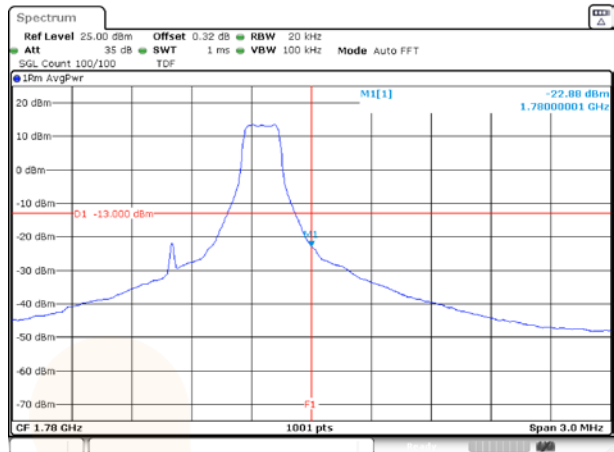
Test mode: LTE B66/4

1.4M BW QPSK

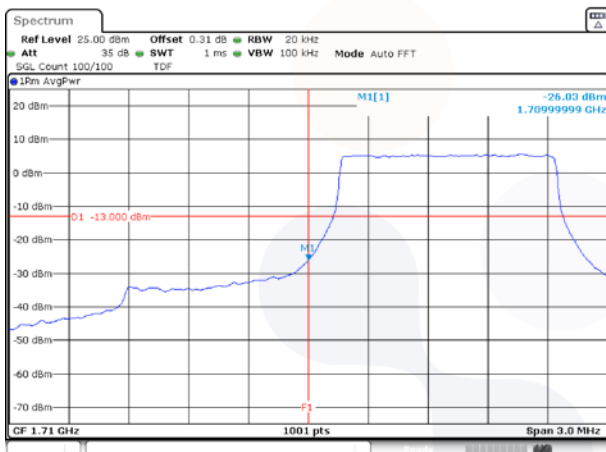
Low channel 1RB



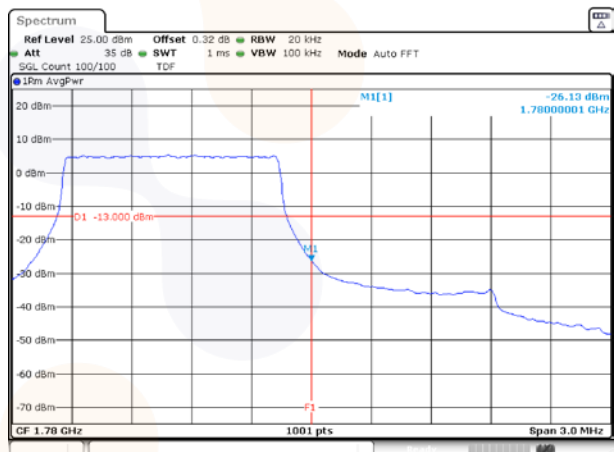
High channel 1RB



Low channel FRB

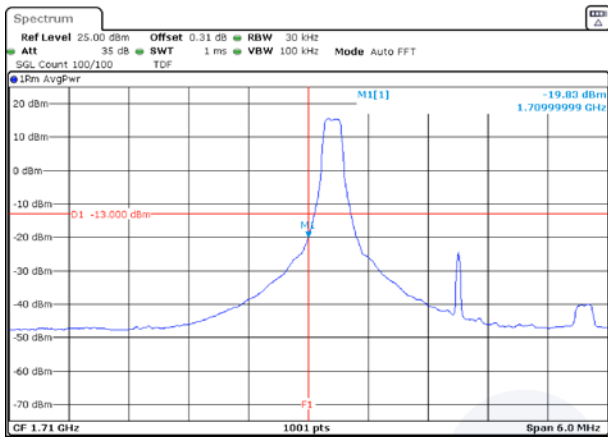


High channel FRB

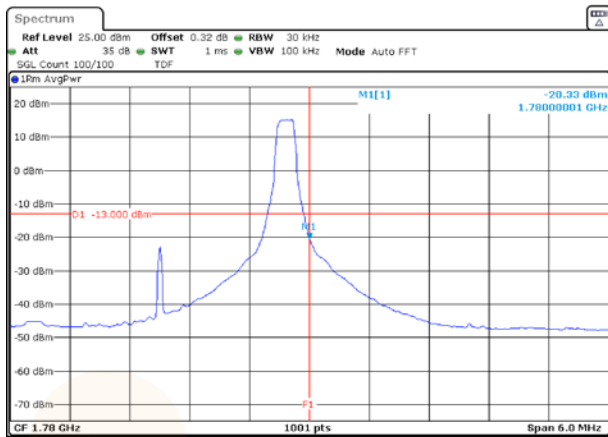


3M BW QPSK

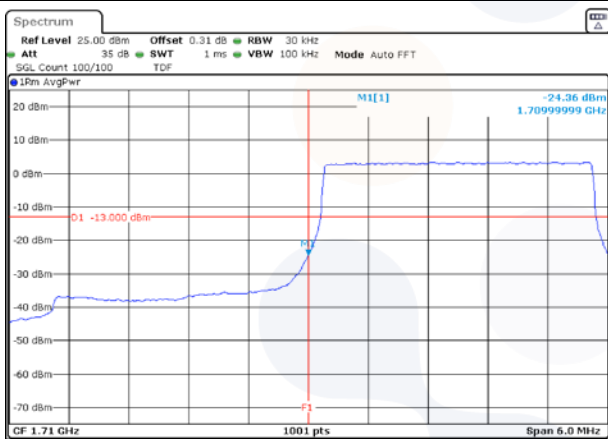
Low channel 1RB



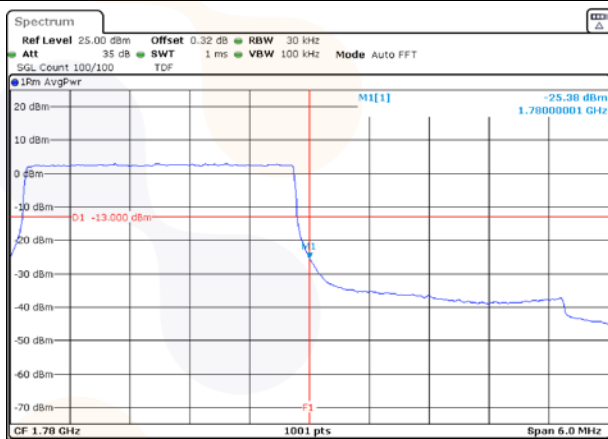
High channel 1RB



Low channel FRB

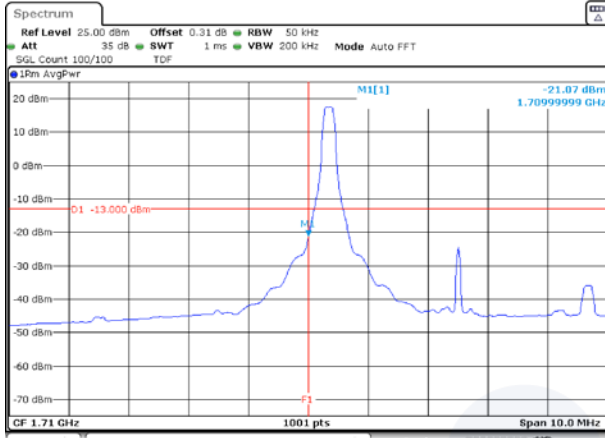


High channel FRB

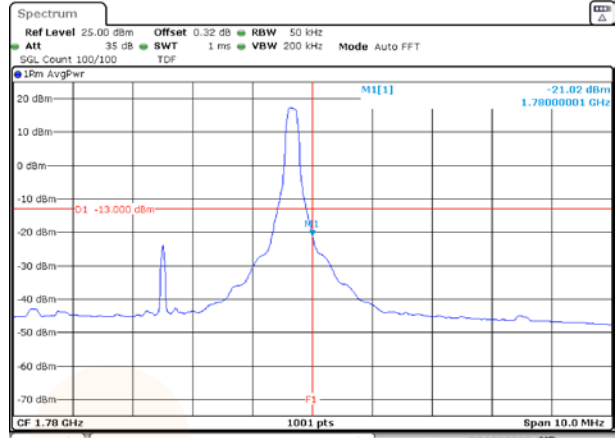


5M BW QPSK

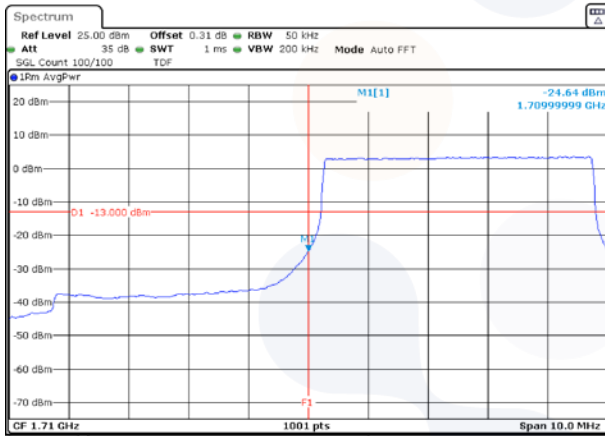
Low channel 1RB



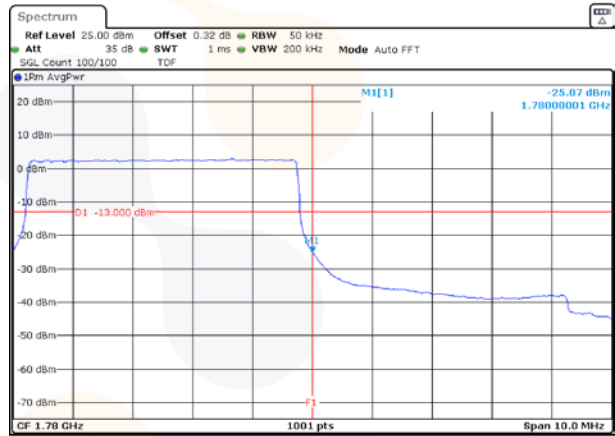
High channel 1RB



Low channel FRB

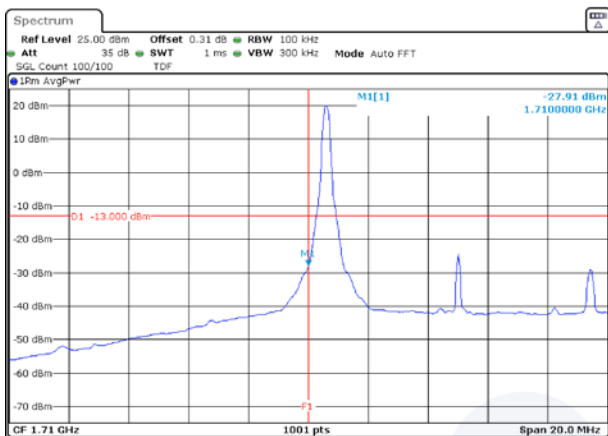


High channel FRB

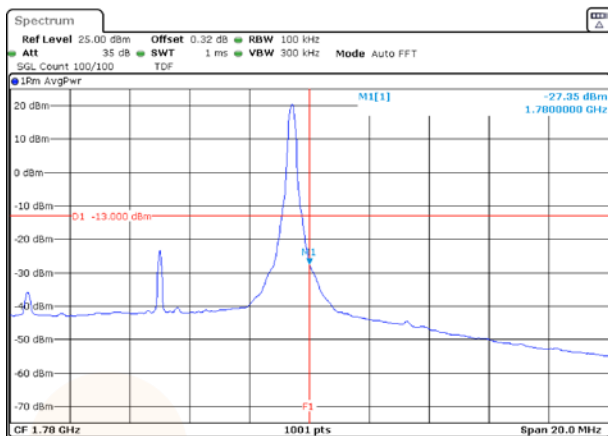


10M BW QPSK

Low channel 1RB



High channel 1RB



Low channel FRB

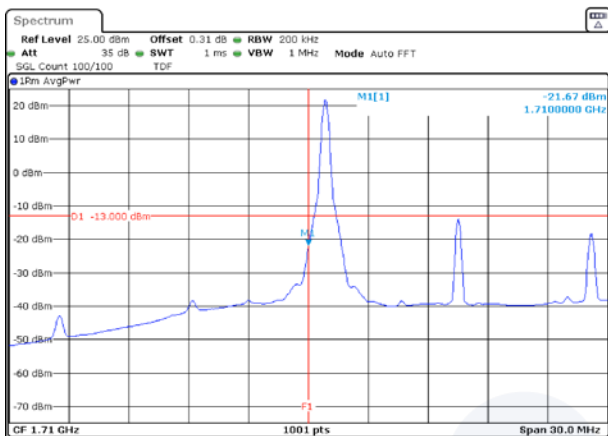


High channel FRB

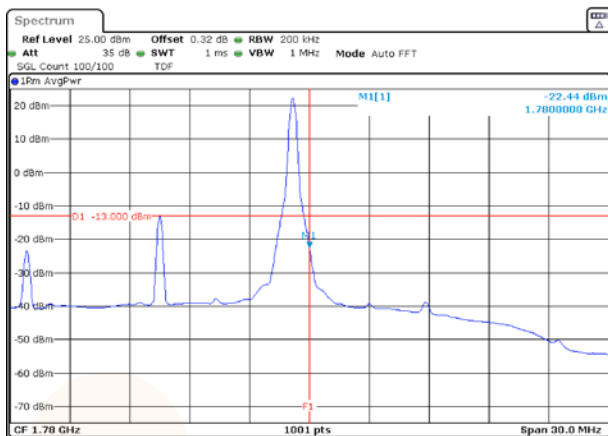


15M BW QPSK

Low channel 1RB



High channel 1RB



Low channel FRB

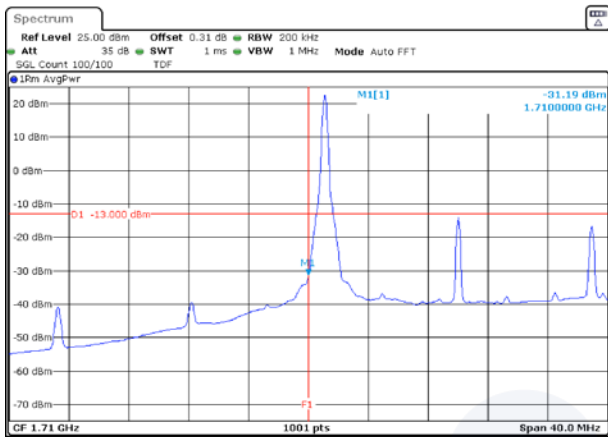


High channel FRB

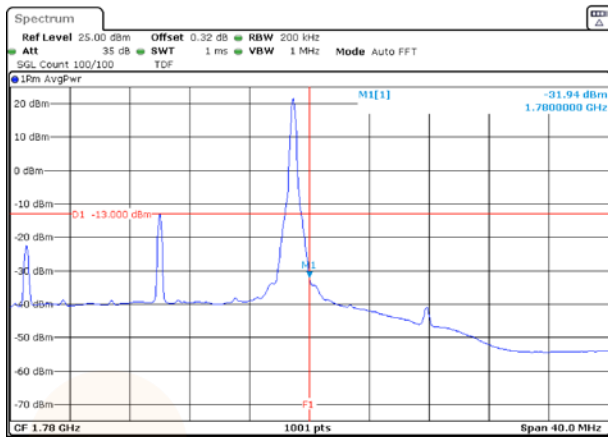


20M BW QPSK

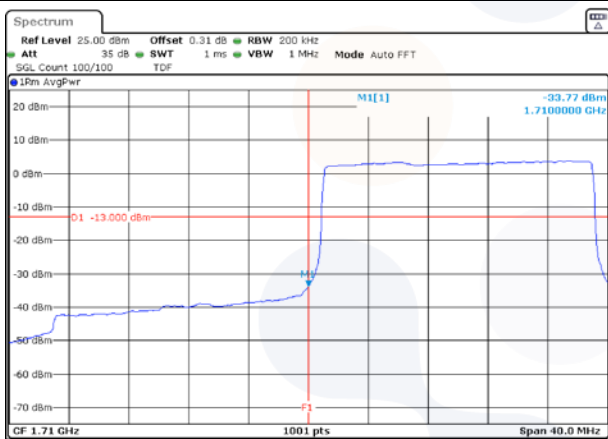
Low channel 1RB



High channel 1RB



Low channel FRB



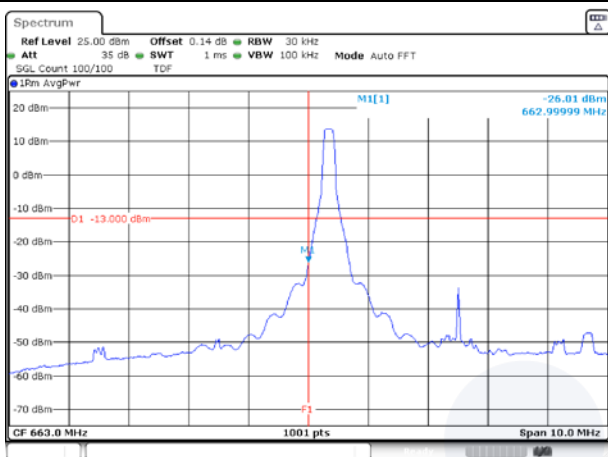
High channel FRB



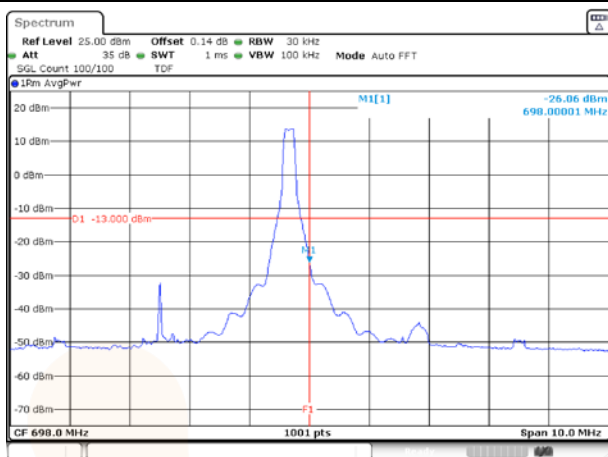
Test mode: LTE B71

5M BW QPSK

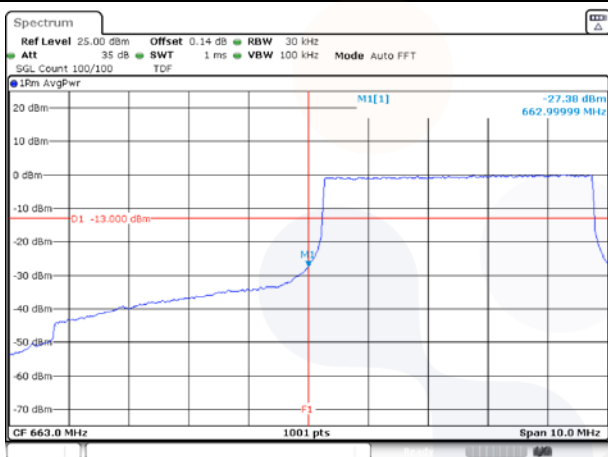
Low channel 1RB



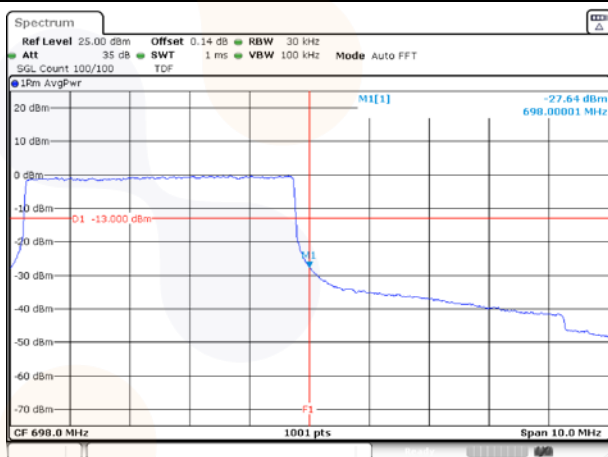
High channel 1RB



Low channel FRB

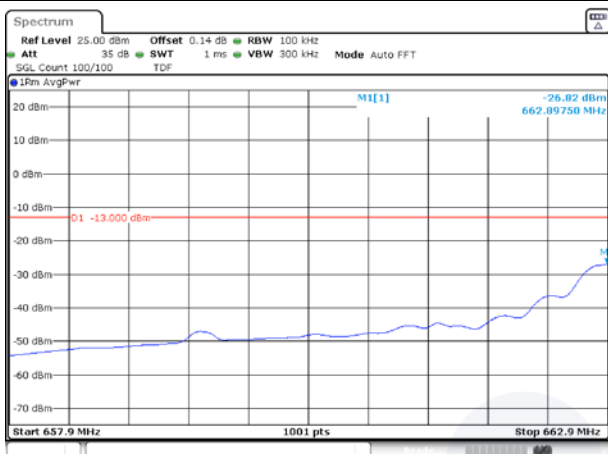


High channel FRB



5M BW QPSK

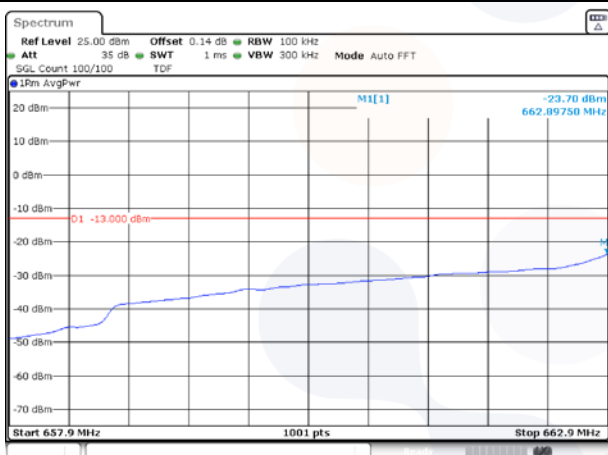
Lower extended 1RB



Upper extended 1RB



Lower extended FRB

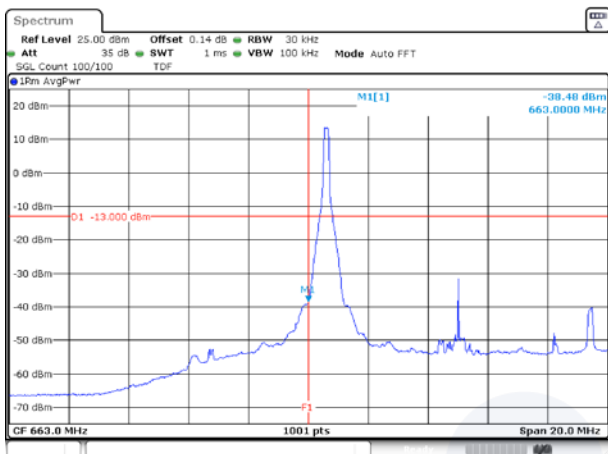


Upper extended FRB

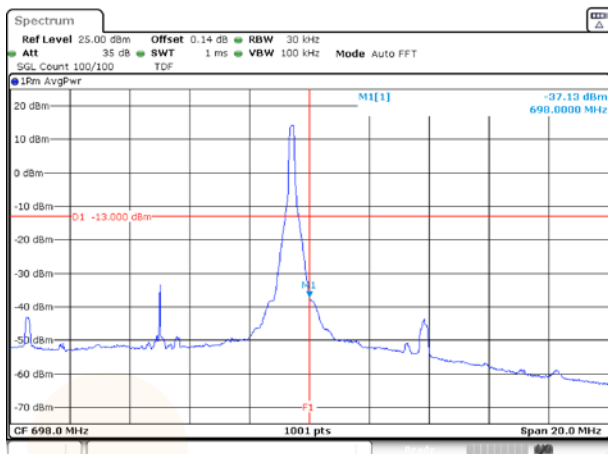


10M BW QPSK

Low channel 1RB



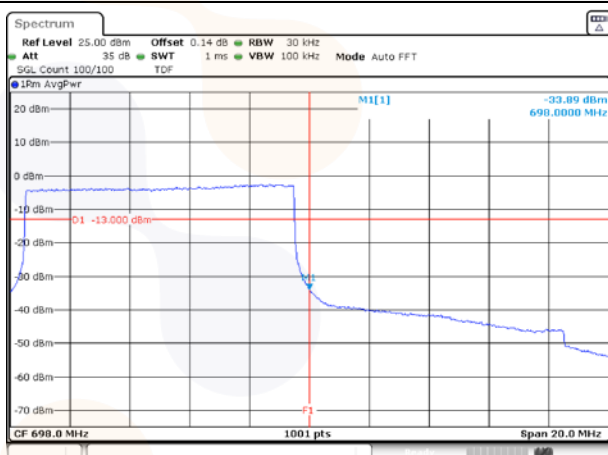
High channel 1RB



Low channel FRB

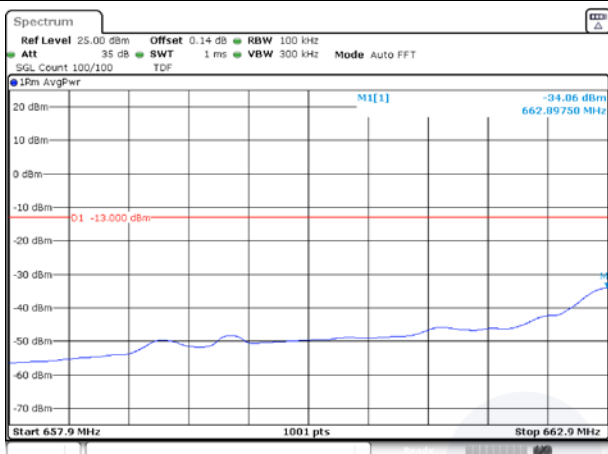


High channel FRB

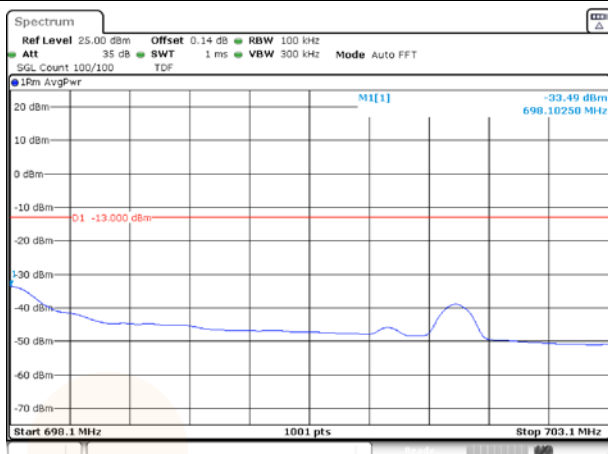


10M BW QPSK

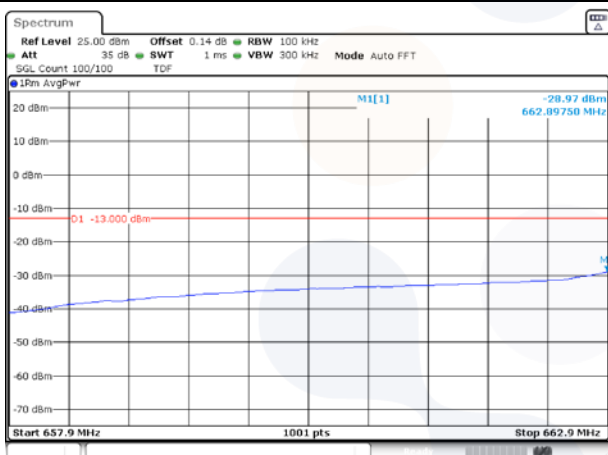
Lower extended 1RB



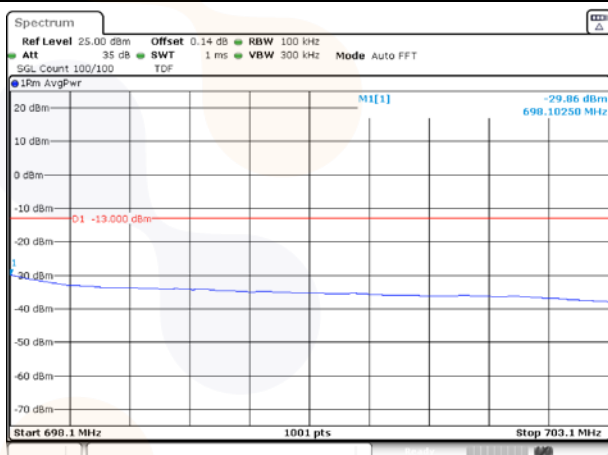
Upper extended 1RB



Lower extended FRB

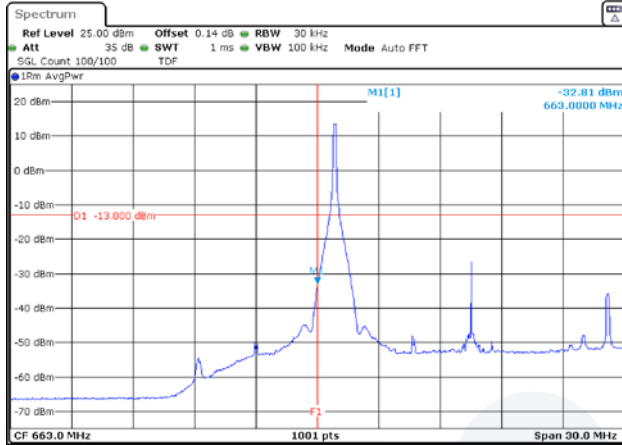


Upper extended FRB

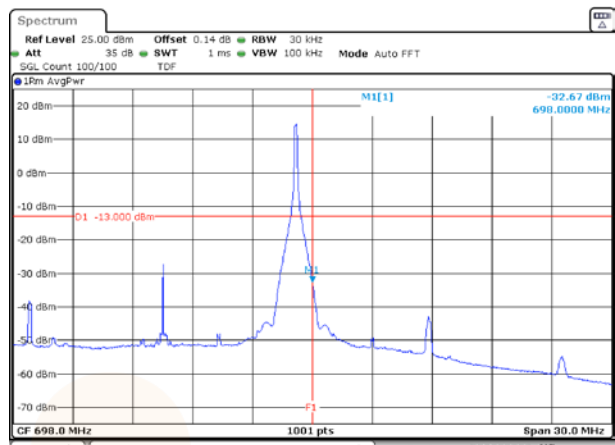


15M BW QPSK

Low channel 1RB



High channel 1RB



Low channel FRB

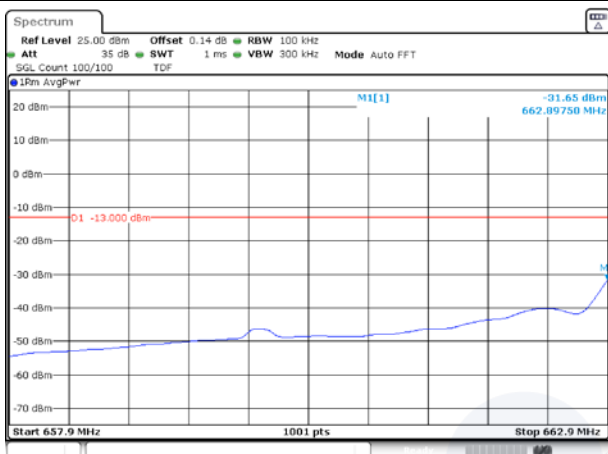


High channel FRB

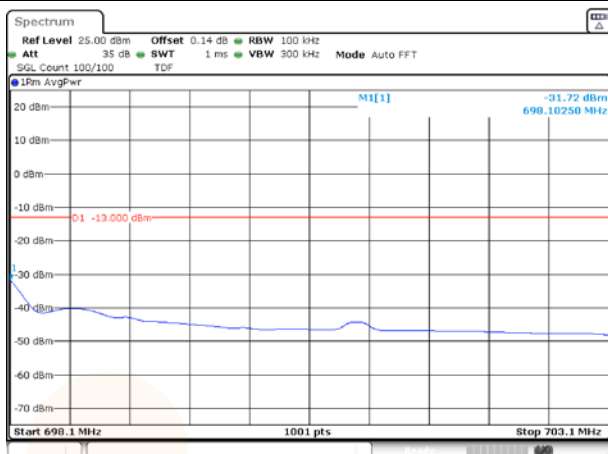


15M BW QPSK

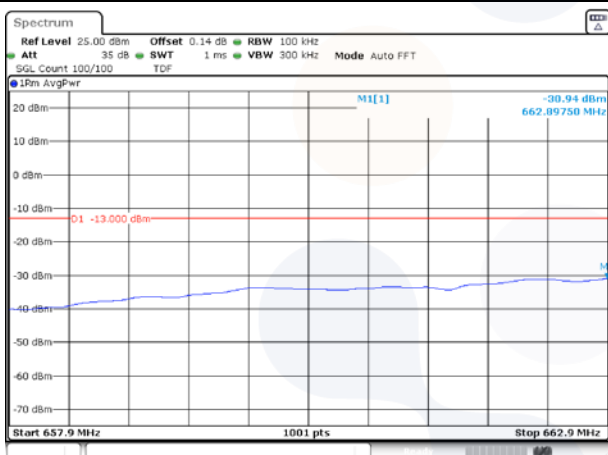
Lower extended 1RB



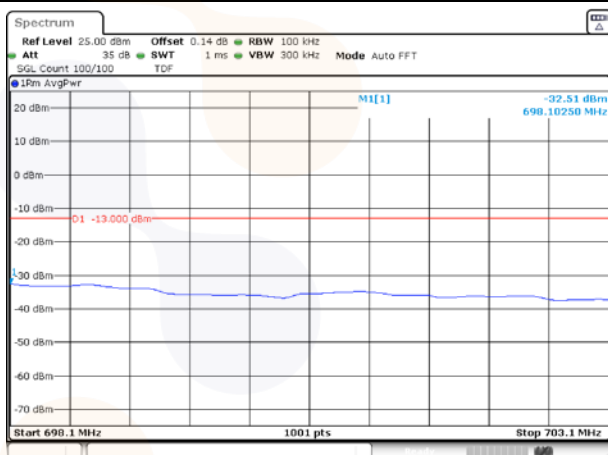
Upper extended 1RB



Lower extended FRB

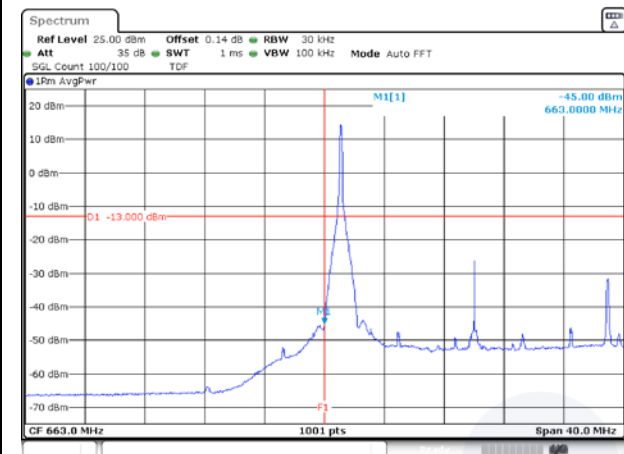


Upper extended FRB

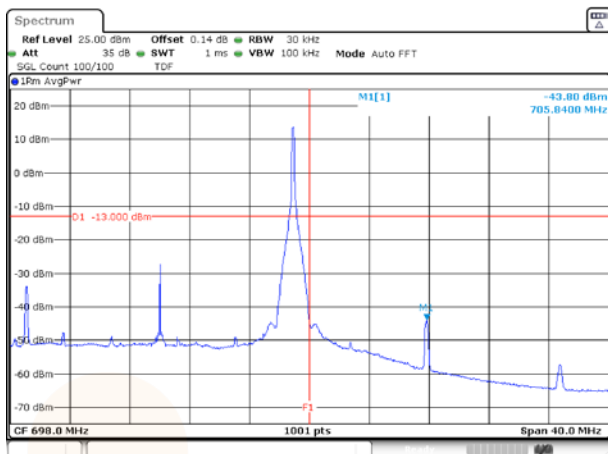


20M BW QPSK

Low channel 1RB



High channel 1RB



Low channel FRB

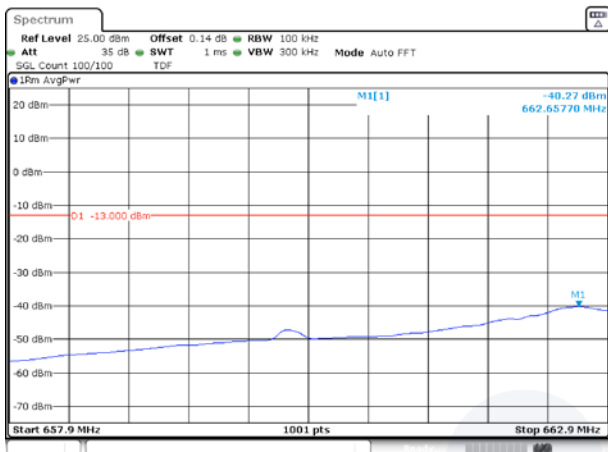


High channel FRB

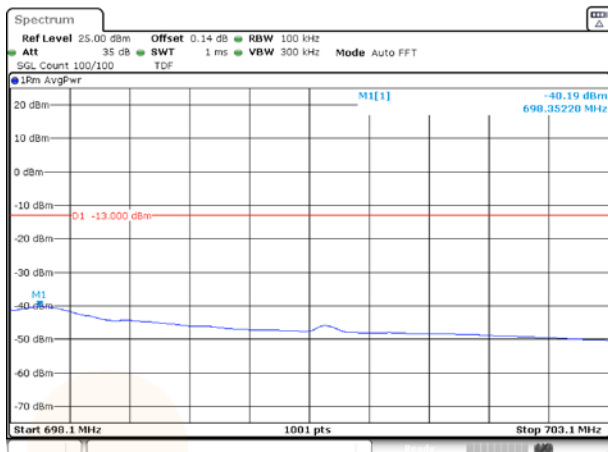


20M BW QPSK

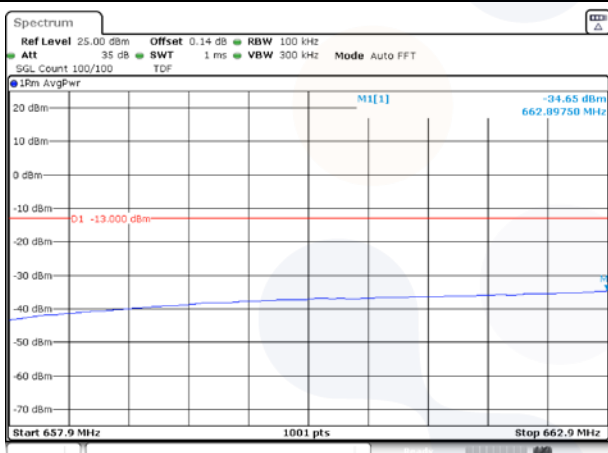
Lower extended 1RB



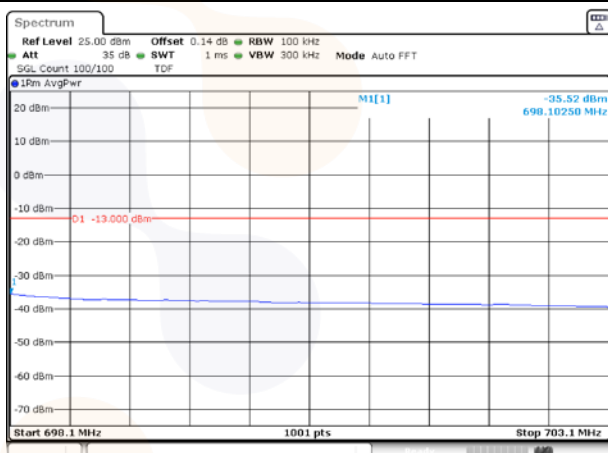
Upper extended 1RB



Lower extended FRB

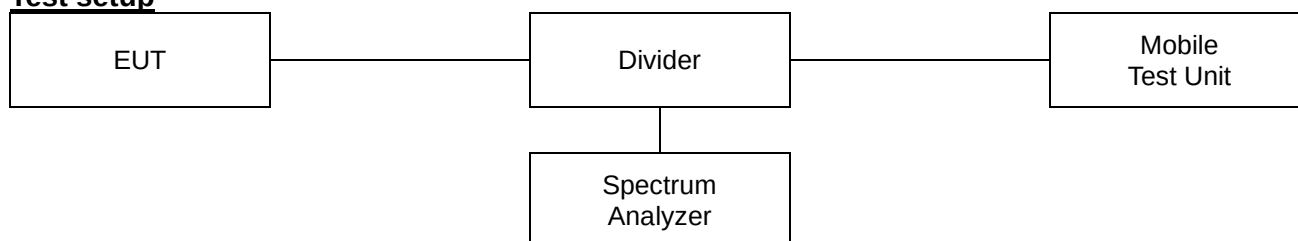


Upper extended FRB



7.4. Spurious Emissions at Antenna Terminal

Test setup



Limit

According to §27.53(c)(2),

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment

According to §27.53(g),

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10\log(P_{\text{[Watts]}})$ dB.

According to §27.53(h),

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log(P_{\text{[Watts]}})$ dB.

Test procedure

971168 D01 v03r01 - Section 6
 ANSI 63.26-2015 – Section 5.7

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR24-SRF0100 Page (78) of (124)	
--	--	---

Test settings

- 1) Start frequency was set to 30 MHz and stop frequency was set to at least 10th the fundamental frequency.
- 2) Detector = RMS
- 3) Sweep time = auto couple.
- 4) Trace mode = trace average
- 5) Allow trace to fully stabilize.
- 6) Please see test notes below RBW and VBW settings.

Notes:

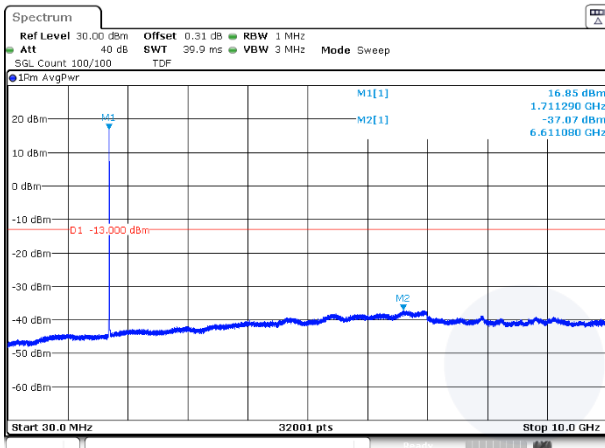
1. Per 27.53(c), 27.53(g), 27.53(h)(3), compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz.
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
2. All modes of operation were investigated and the worst-case configuration results are reported.

Test results

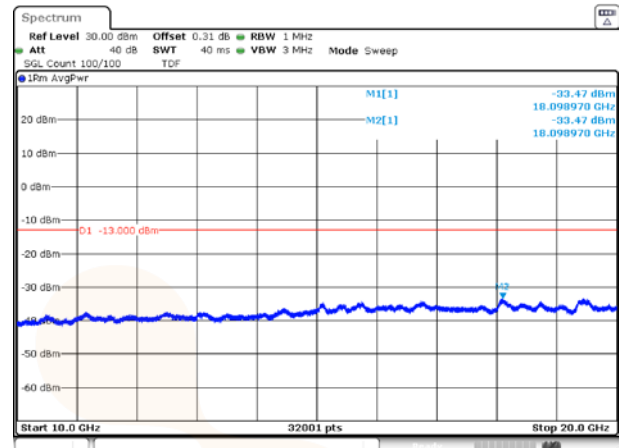
Test mode: WCDMA 1700

RMC

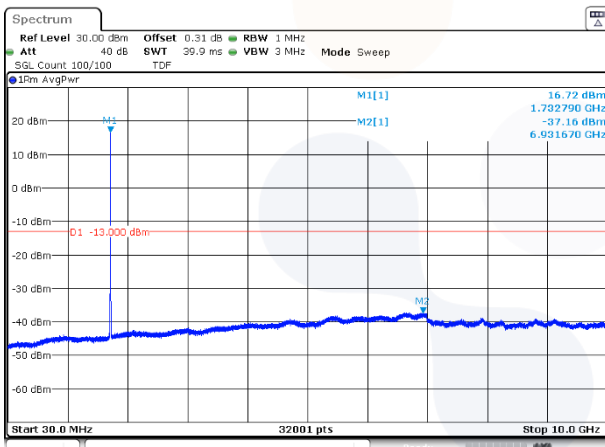
Low channel (30 MHz ~ 10 GHz)



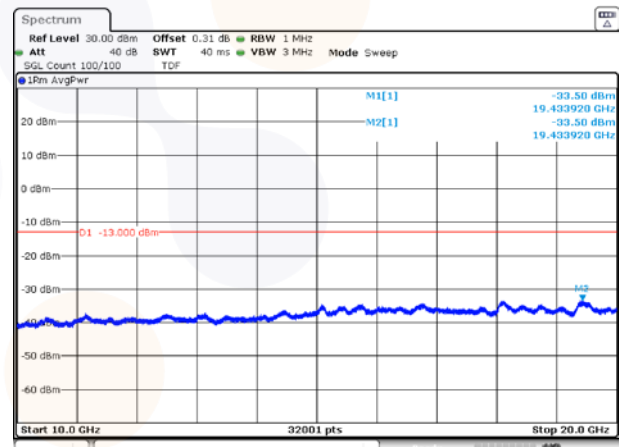
Low channel (10 GHz ~ 20 GHz)



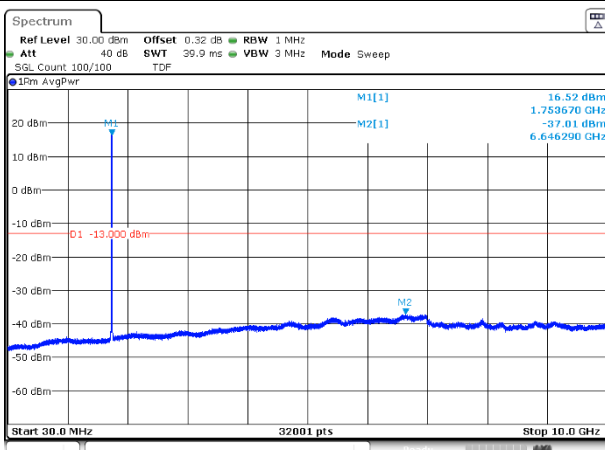
Middle channel (30 MHz ~ 10 GHz)



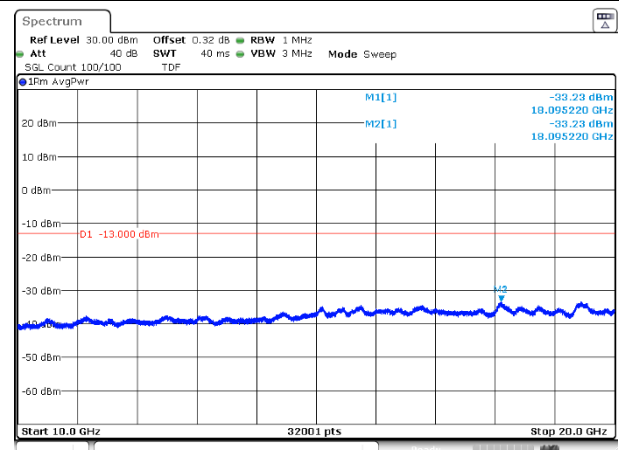
Middle channel (10 GHz ~ 20 GHz)



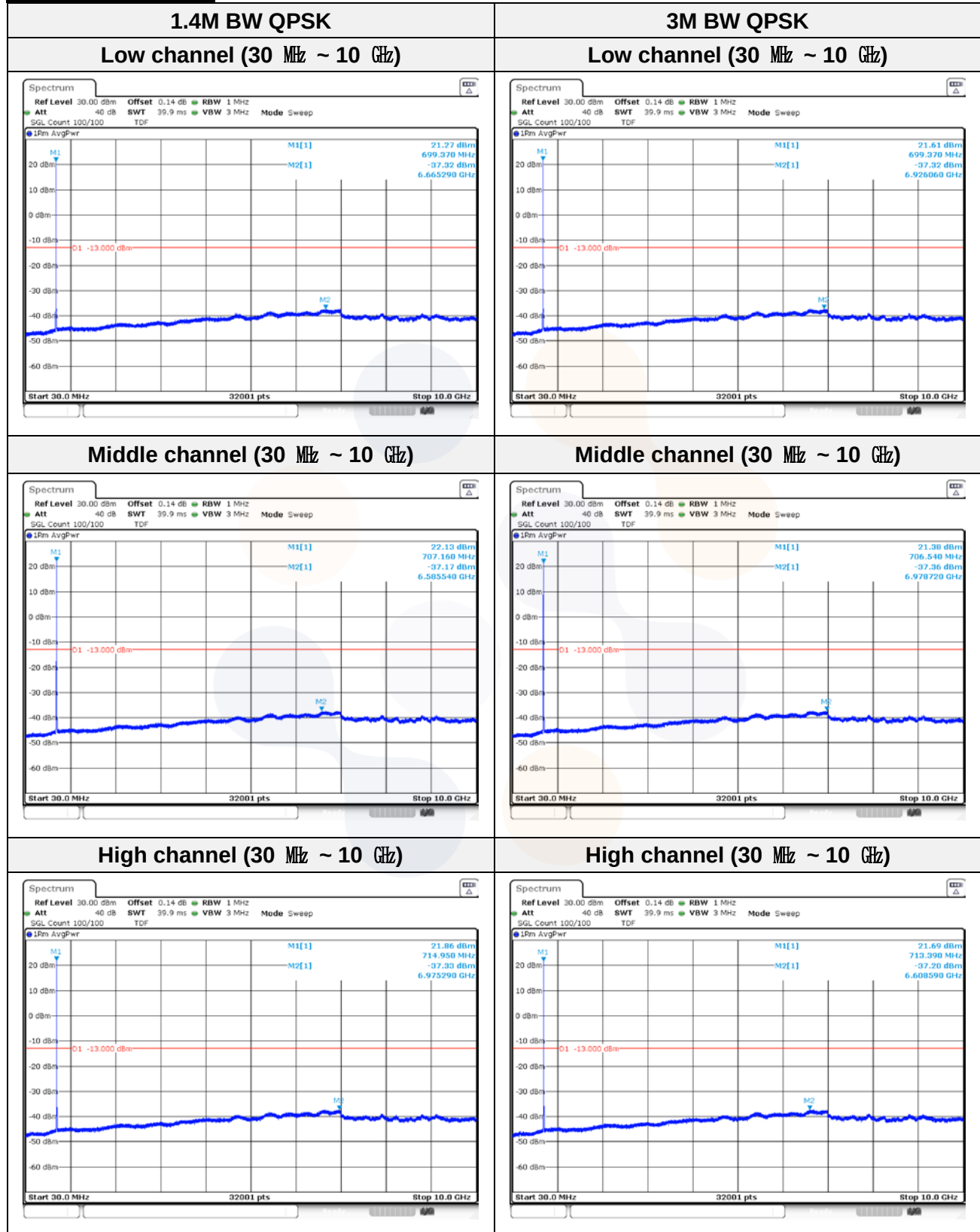
High channel (30 MHz ~ 10 GHz)



High channel (10 GHz ~ 20 GHz)

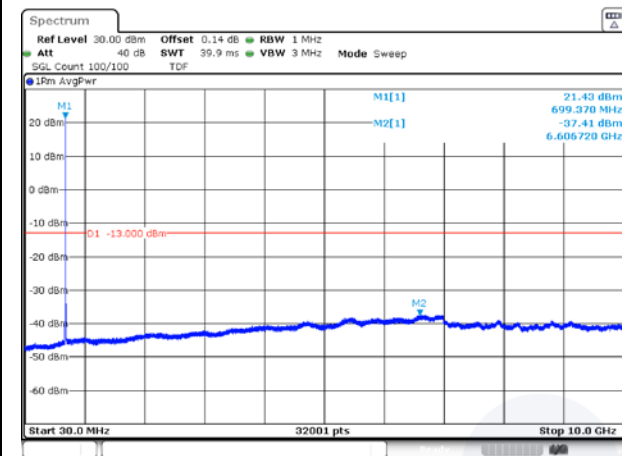


Test mode: LTE B12



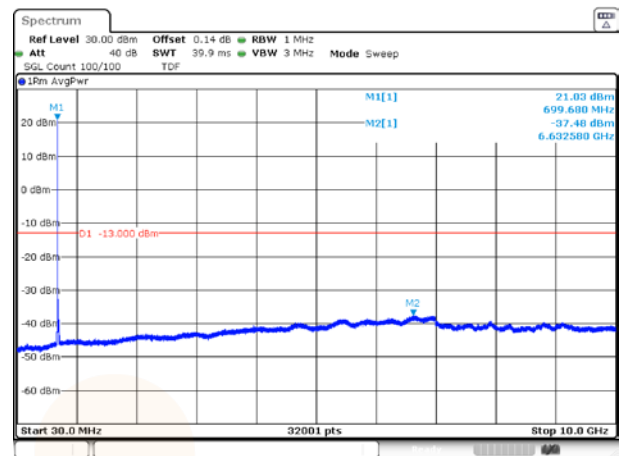
5M BW QPSK

Low channel (30 MHz ~ 10 GHz)

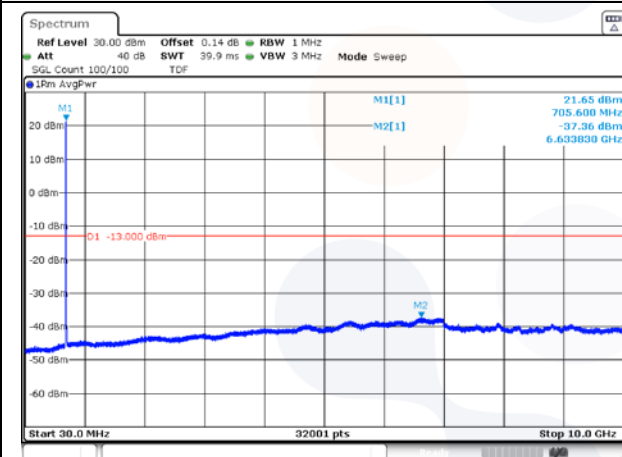


10M BW QPSK

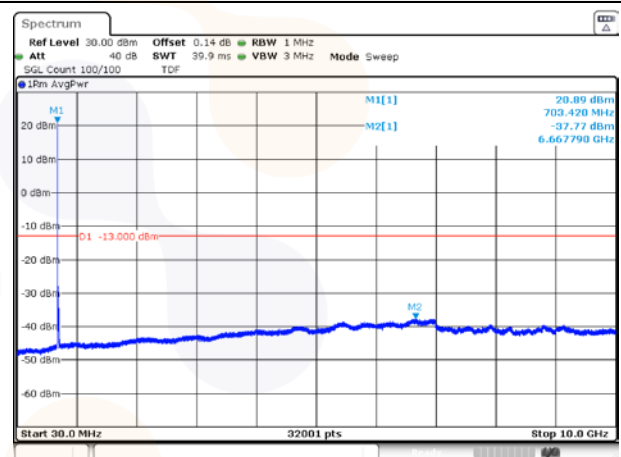
Low channel (30 MHz ~ 10 GHz)



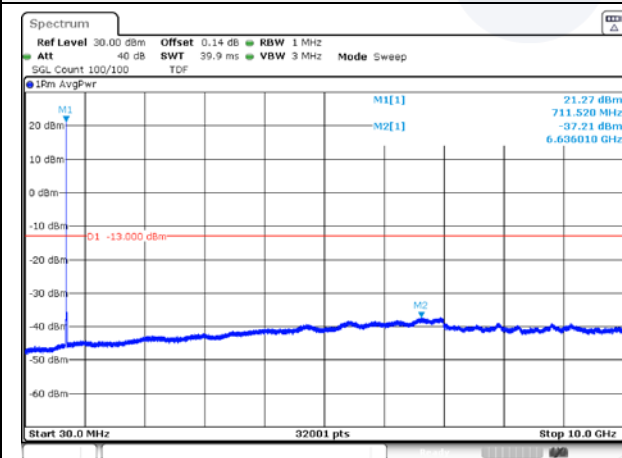
Middle channel (30 MHz ~ 10 GHz)



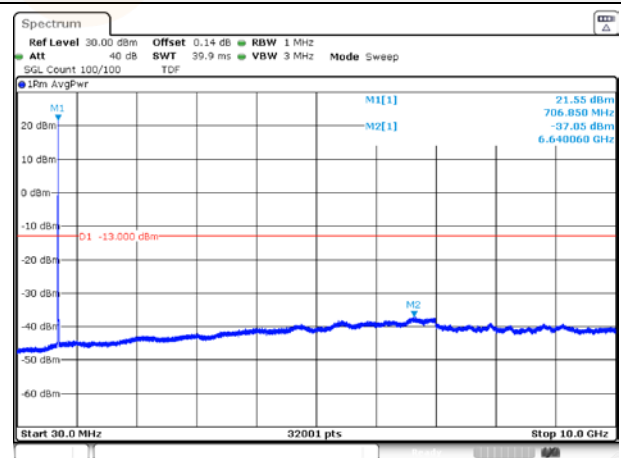
Middle channel (30 MHz ~ 10 GHz)



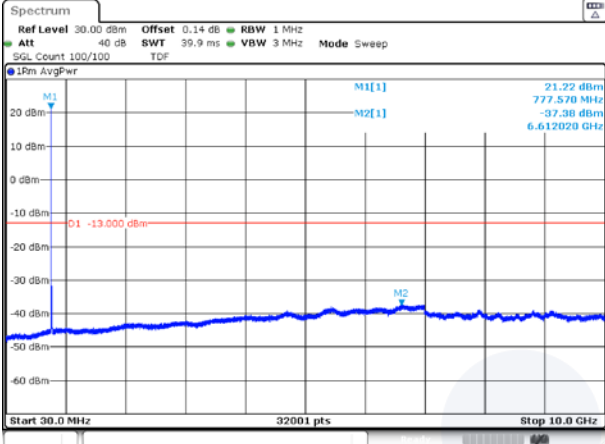
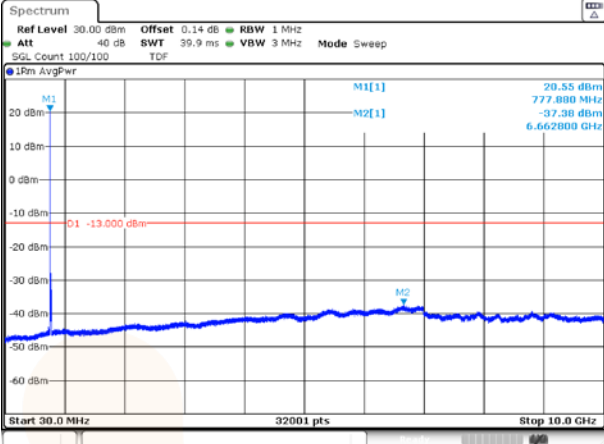
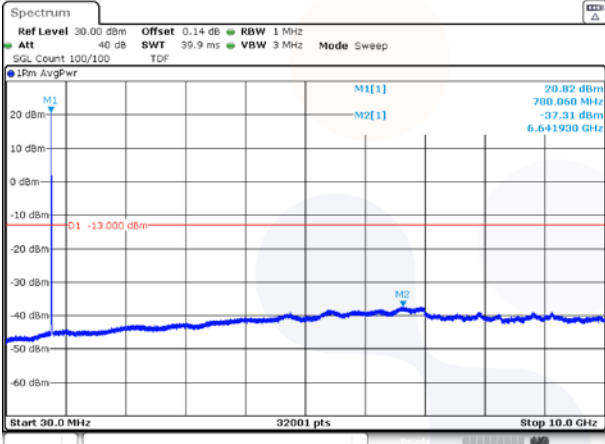
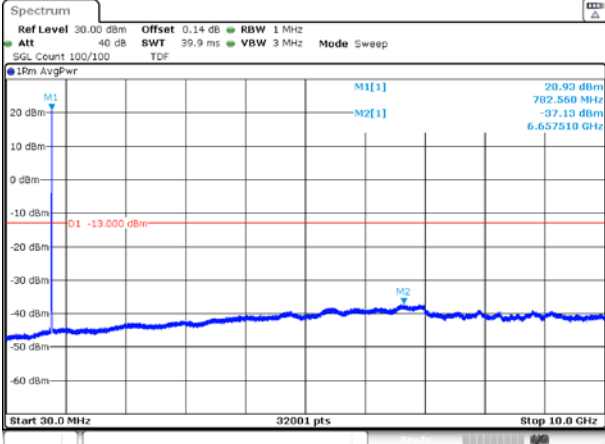
High channel (30 MHz ~ 10 GHz)



High channel (30 MHz ~ 10 GHz)



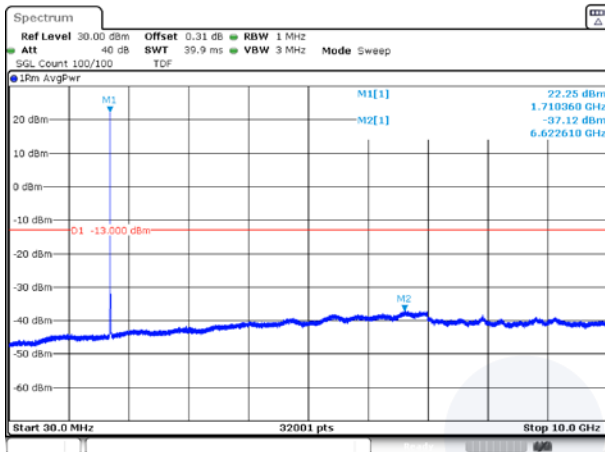
Test mode: LTE B13

5M BW QPSK	10M BW QPSK
Low channel (30 MHz ~ 10 GHz) 	Middle channel (30 MHz ~ 10 GHz) 
Middle channel (30 MHz ~ 10 GHz) 	- Blank
High channel (30 MHz ~ 10 GHz) 	- Blank

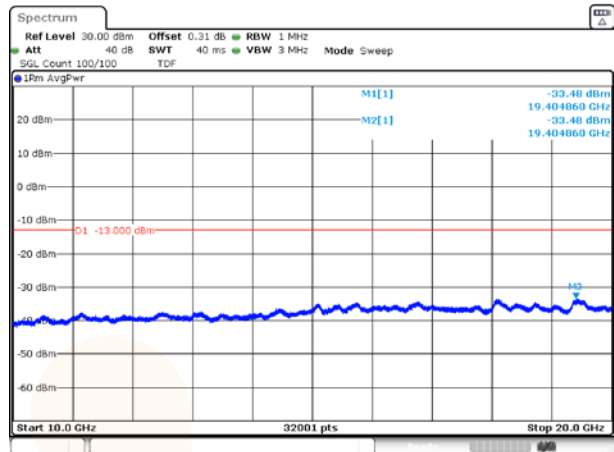
Test mode: LTE B66/4

1.4M BW QPSK

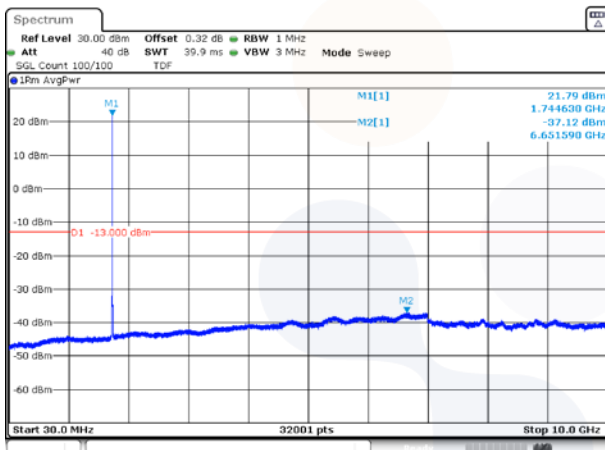
Low channel (30 MHz ~ 10 GHz)



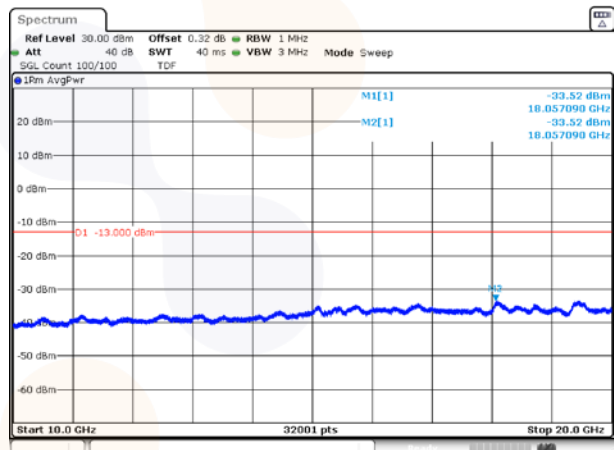
Low channel (10 GHz ~ 20 GHz)



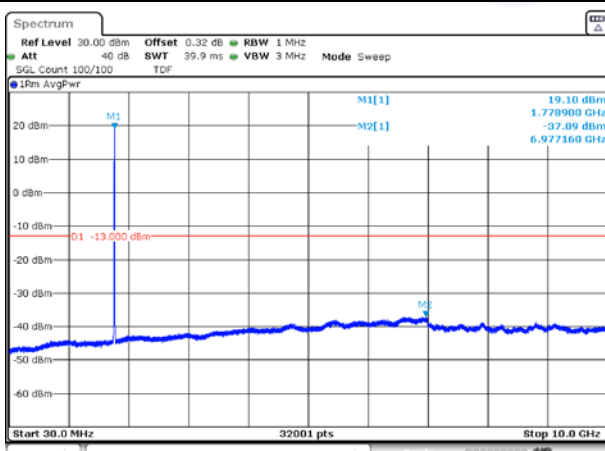
Middle channel (30 MHz ~ 10 GHz)



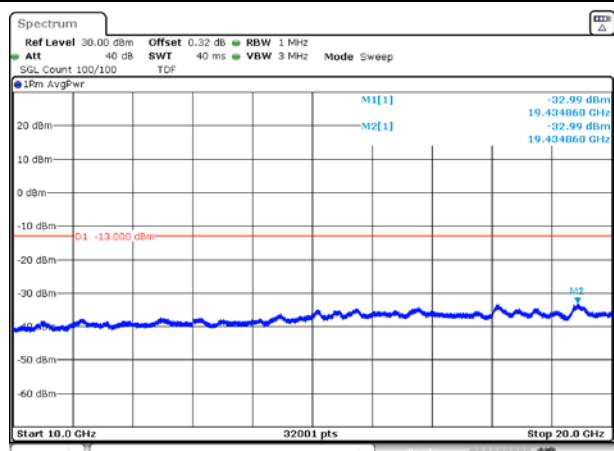
Middle channel (10 GHz ~ 20 GHz)



High channel (30 MHz ~ 10 GHz)

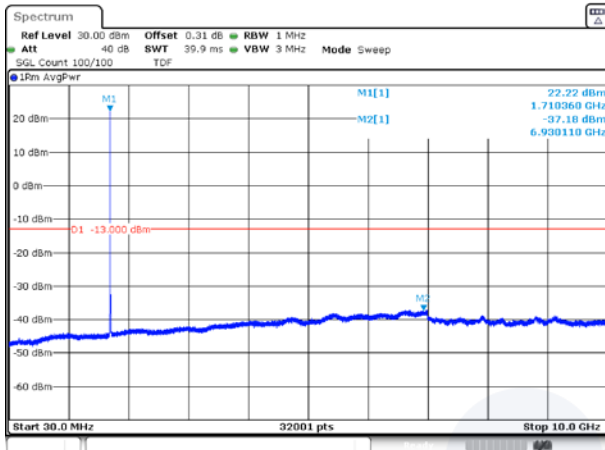


High channel (10 GHz ~ 20 GHz)

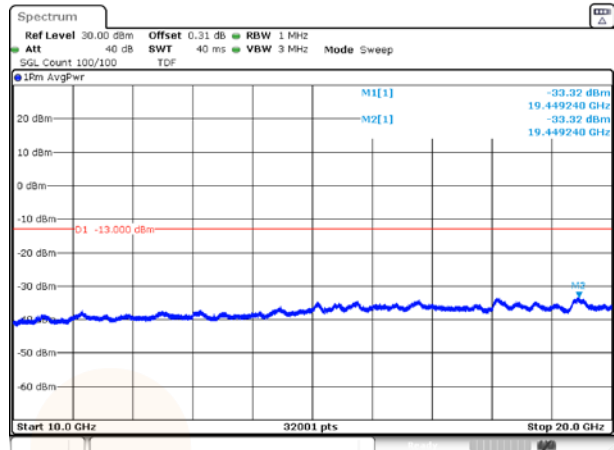


3M BW QPSK

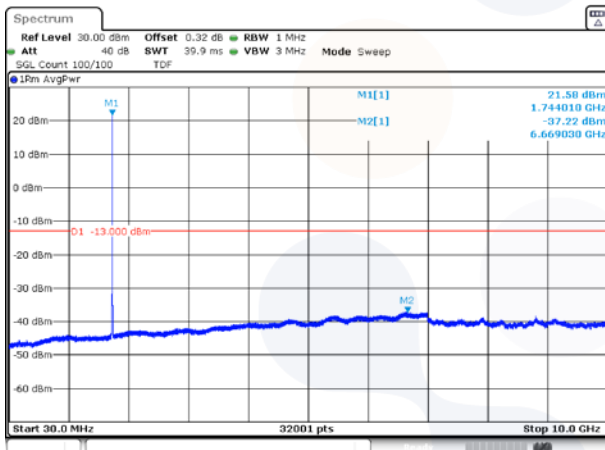
Low channel (30 MHz ~ 10 GHz)



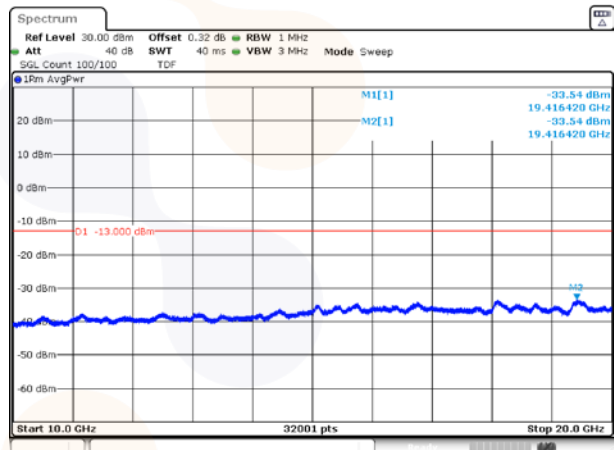
Low channel (10 GHz ~ 20 GHz)



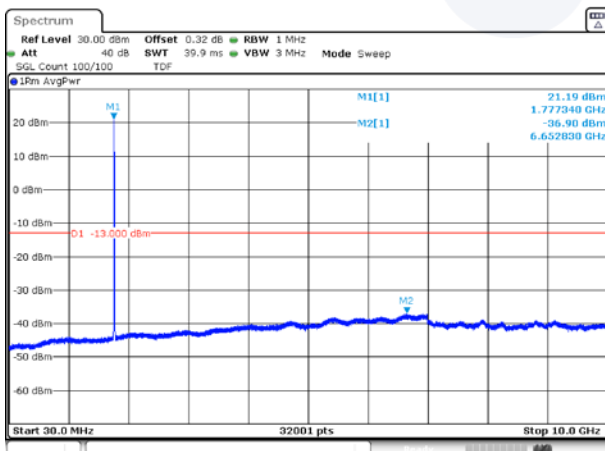
Middle channel (30 MHz ~ 10 GHz)



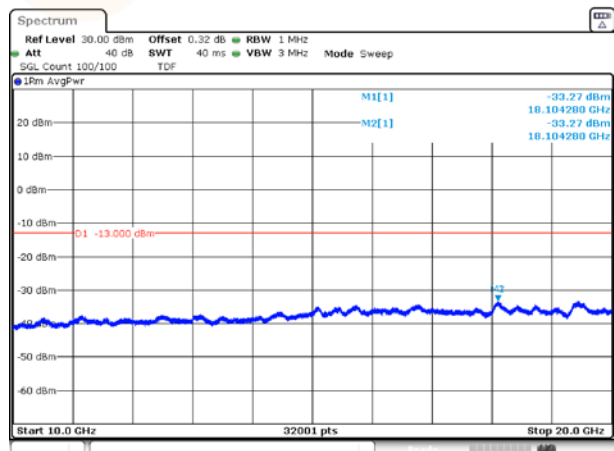
Middle channel (10 GHz ~ 20 GHz)



High channel (30 MHz ~ 10 GHz)

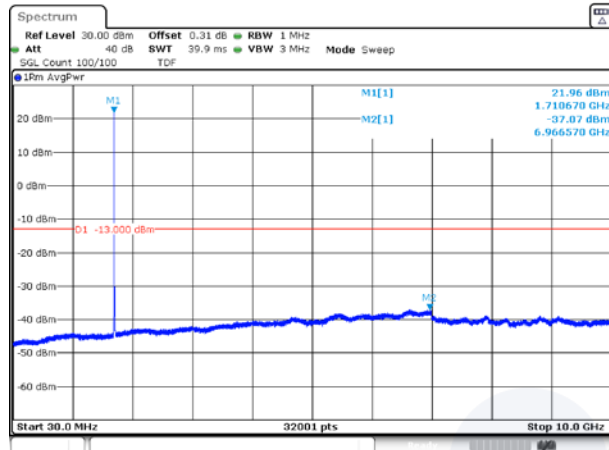


High channel (10 GHz ~ 20 GHz)

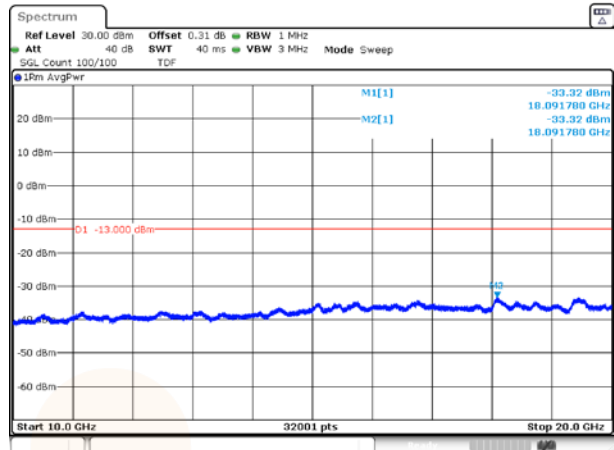


5M BW QPSK

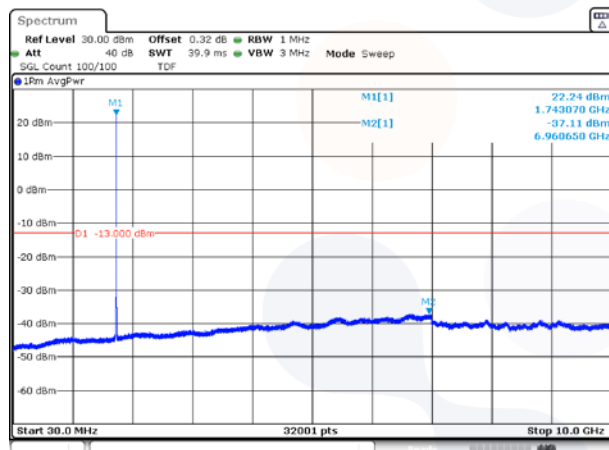
Low channel (30 MHz ~ 10 GHz)



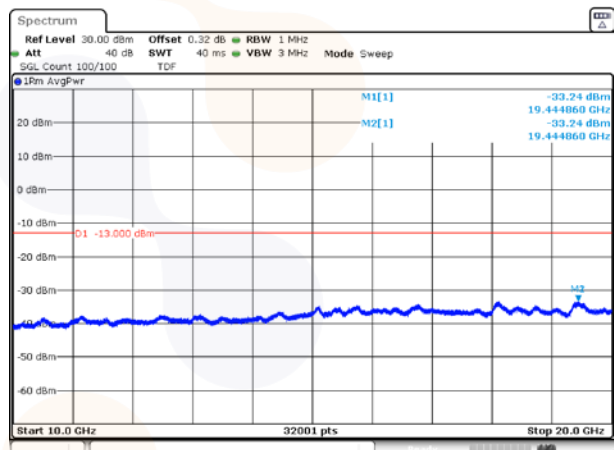
Low channel (10 GHz ~ 20 GHz)



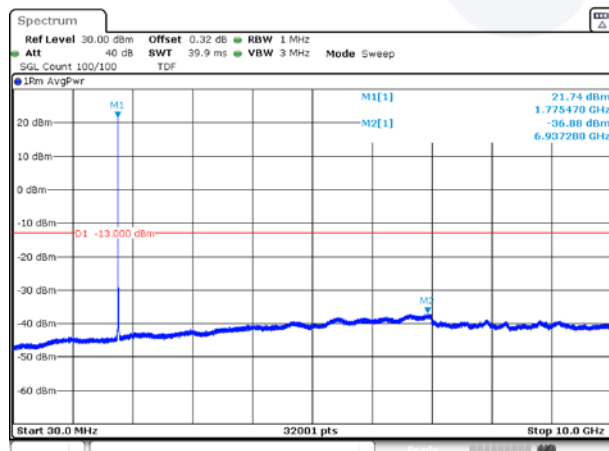
Middle channel (30 MHz ~ 10 GHz)



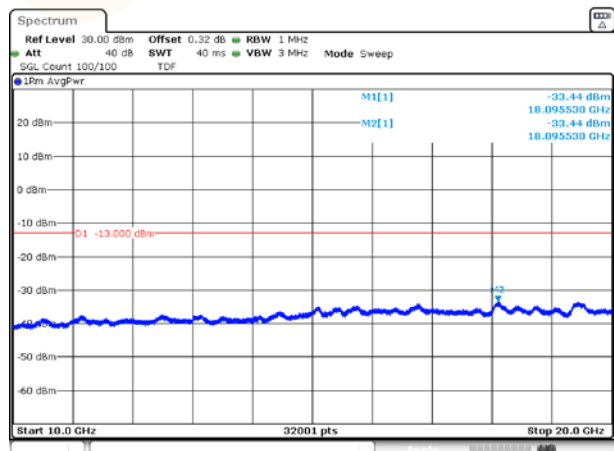
Middle channel (10 GHz ~ 20 GHz)



High channel (30 MHz ~ 10 GHz)

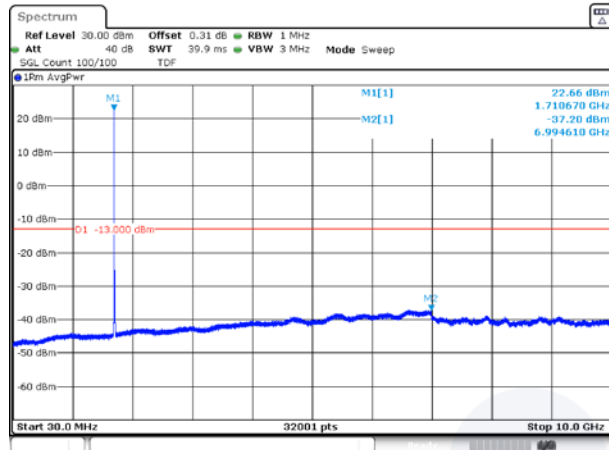


High channel (10 GHz ~ 20 GHz)

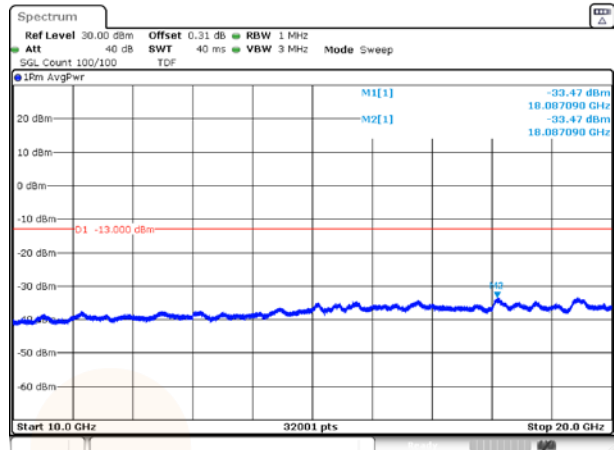


10M BW QPSK

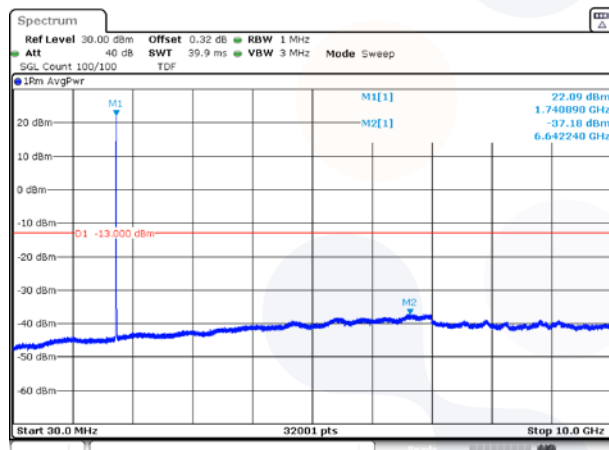
Low channel (30 MHz ~ 10 GHz)



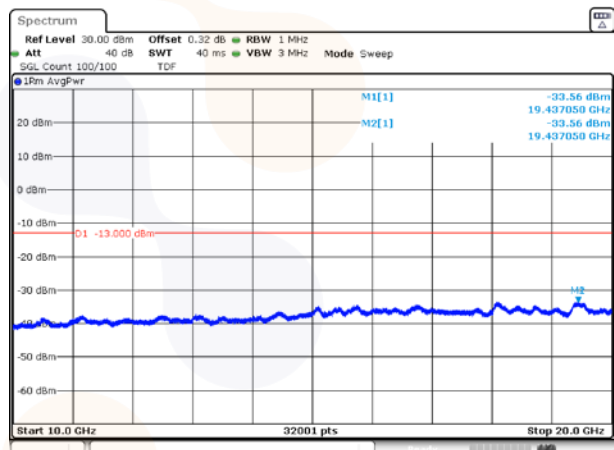
Low channel (10 GHz ~ 20 GHz)



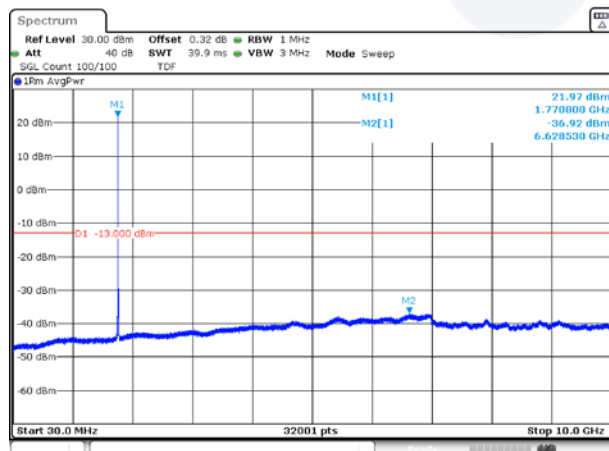
Middle channel (30 MHz ~ 10 GHz)



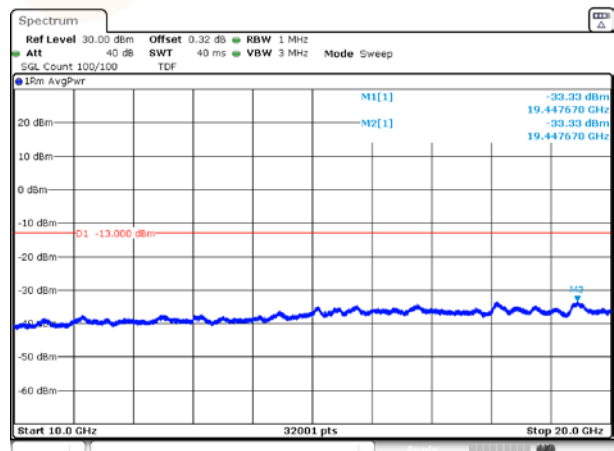
Middle channel (10 GHz ~ 20 GHz)



High channel (30 MHz ~ 10 GHz)

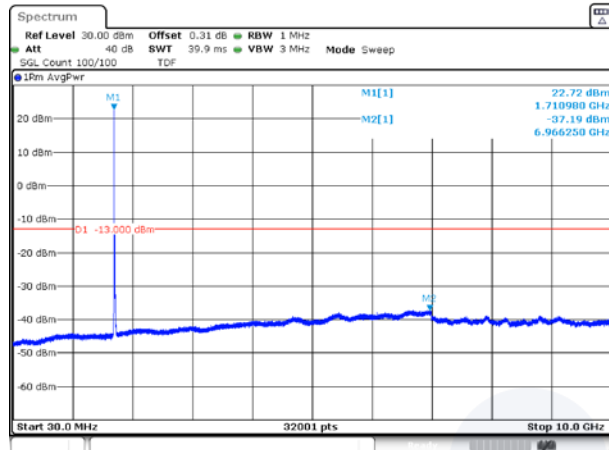


High channel (10 GHz ~ 20 GHz)

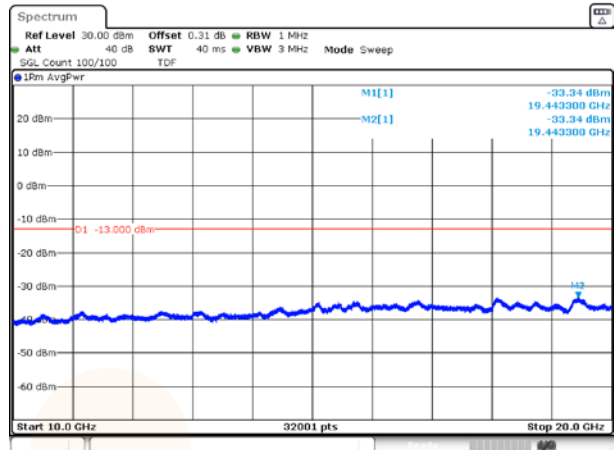


15M BW QPSK

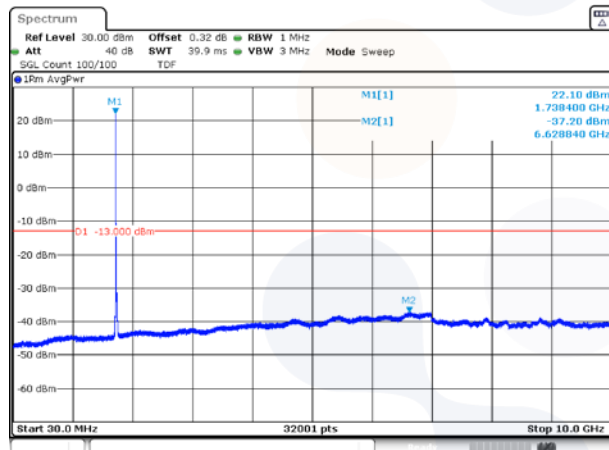
Low channel (30 MHz ~ 10 GHz)



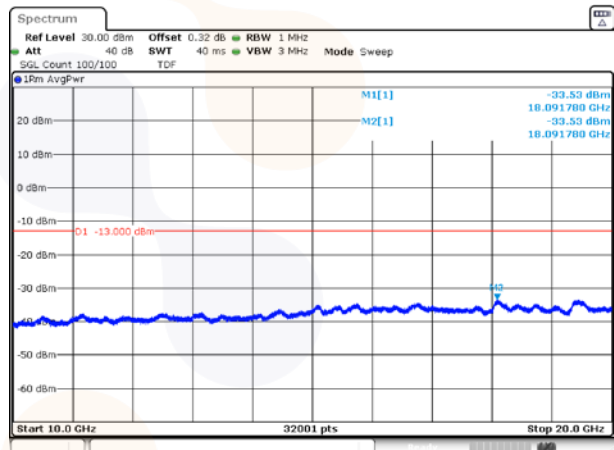
Low channel (10 GHz ~ 20 GHz)



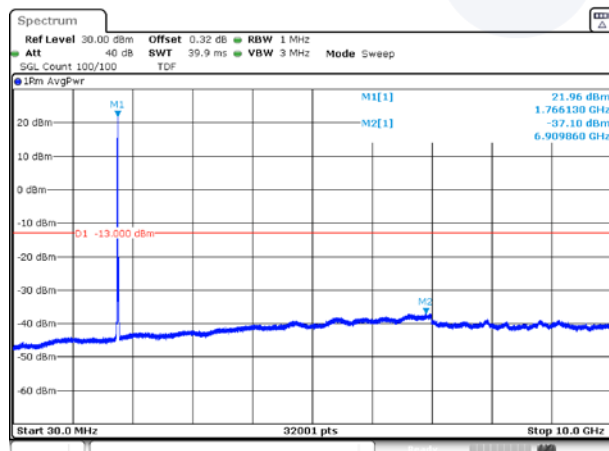
Middle channel (30 MHz ~ 10 GHz)



Middle channel (10 GHz ~ 20 GHz)



High channel (30 MHz ~ 10 GHz)



High channel (10 GHz ~ 20 GHz)

