

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

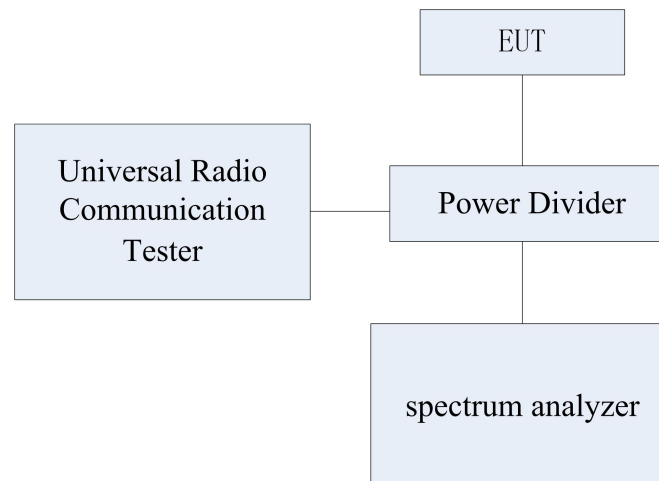
(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

Measurement Uncertainty:

Item	Uncertainty	
Expanded Uncertainty	$9\text{kHz} < f \leq 4\text{GHz}$	0.71 dB (k=2)
	$4\text{GHz} \leq f < 12.75\text{GHz}$	0.74 dB (k=2)
	$12.75\text{GHz} \leq f < 26\text{GHz}$	2.70 dB (k=2)

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method:

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The loss of the cables the test system is calibrated to correct the readings.
- 2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.
- 3) The resolution Bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB emission

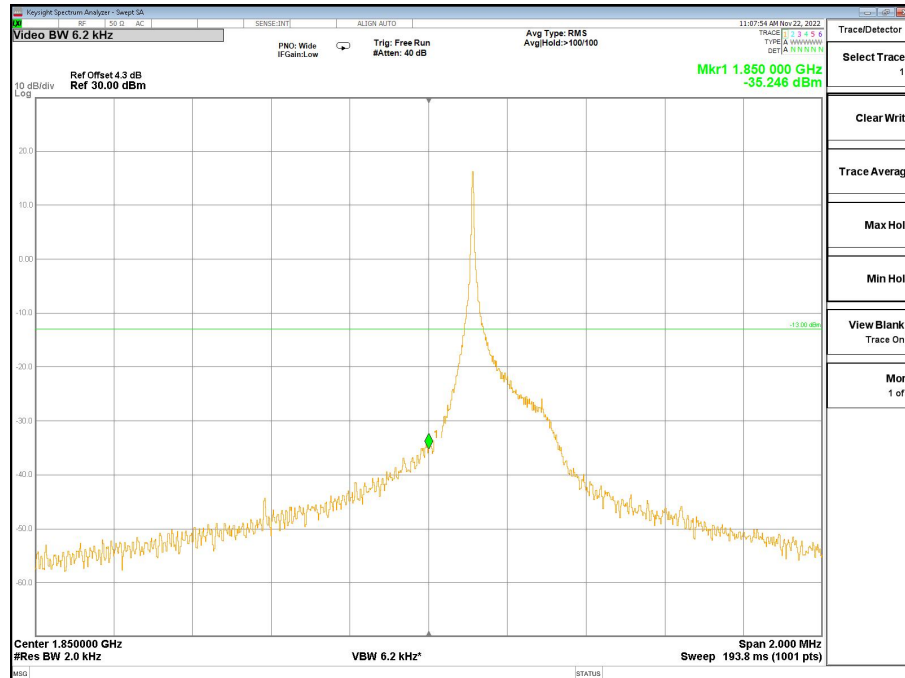
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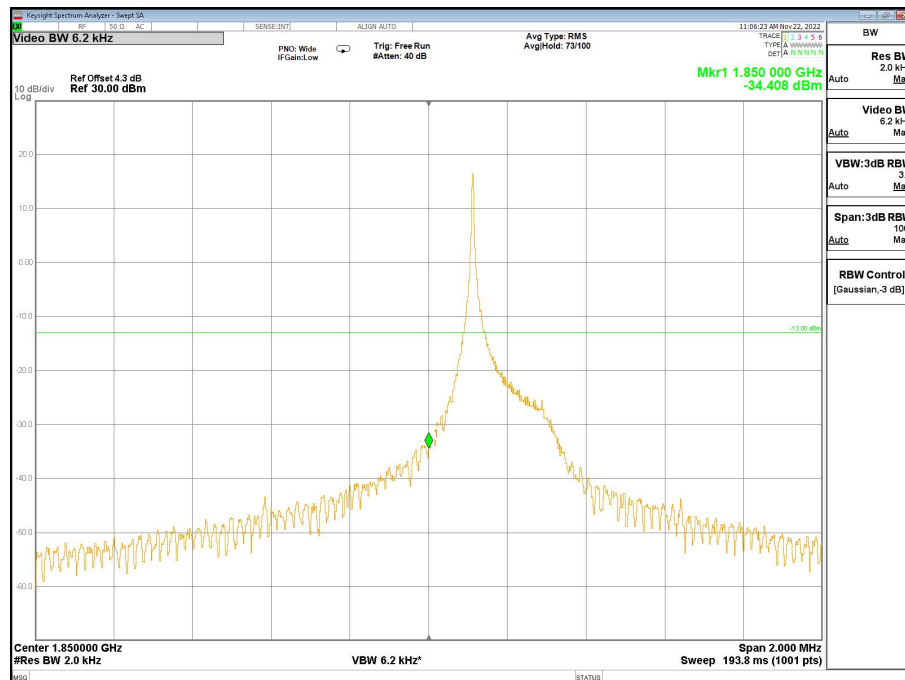
Bandwidth.

Note: In the graphical result description (X, Y), X represents the number of RB, Y represents the RB offset.

6.7.1 NB-IoT Band 2 Edge Results



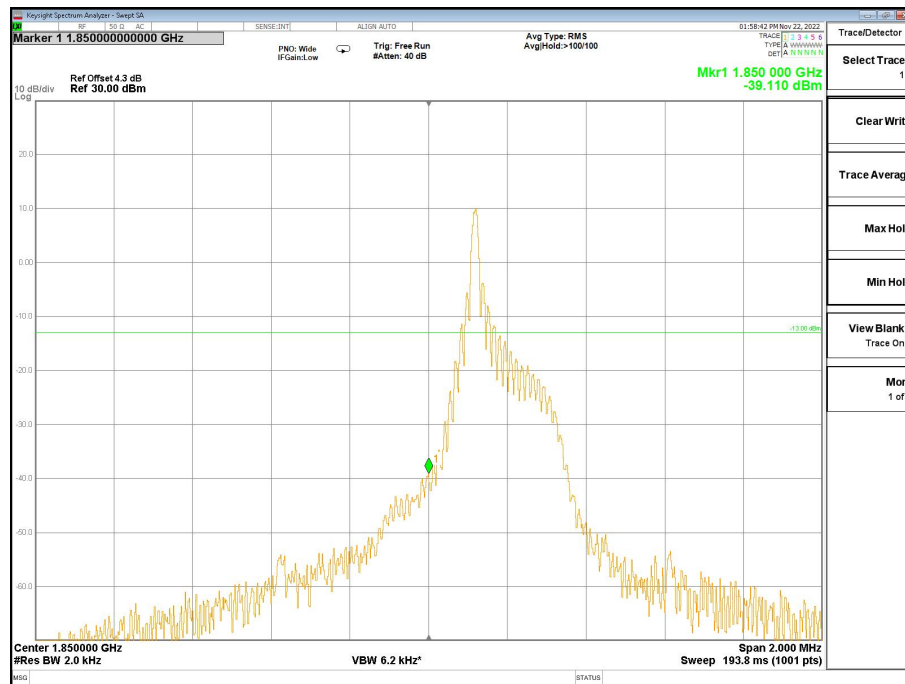
Low Channel, Subcarrier (3.75kHz), QPSK, 1@0



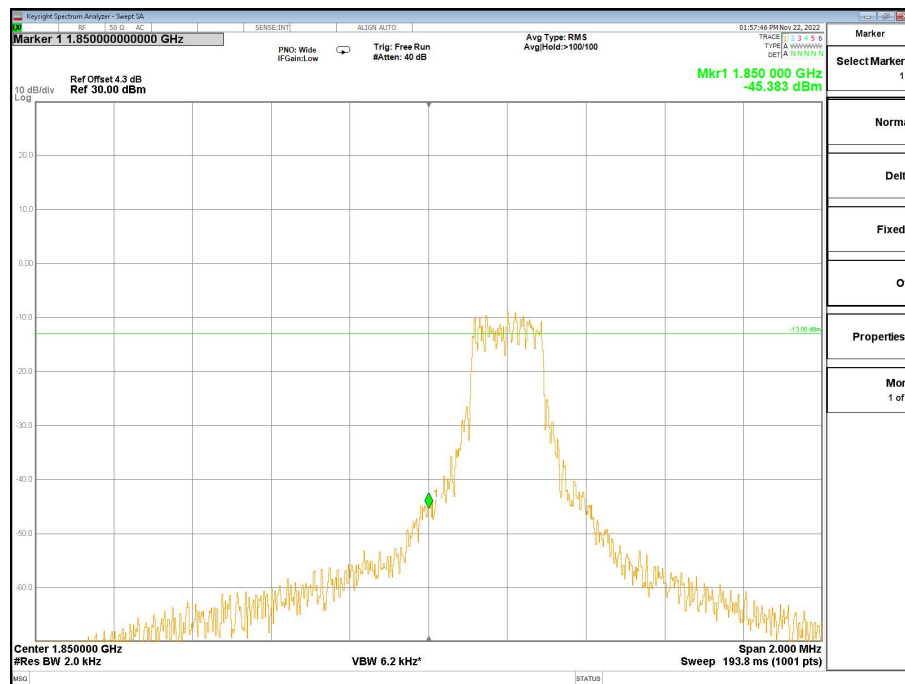
Low Channel, Subcarrier (3.75kHz), BPSK, 1@0

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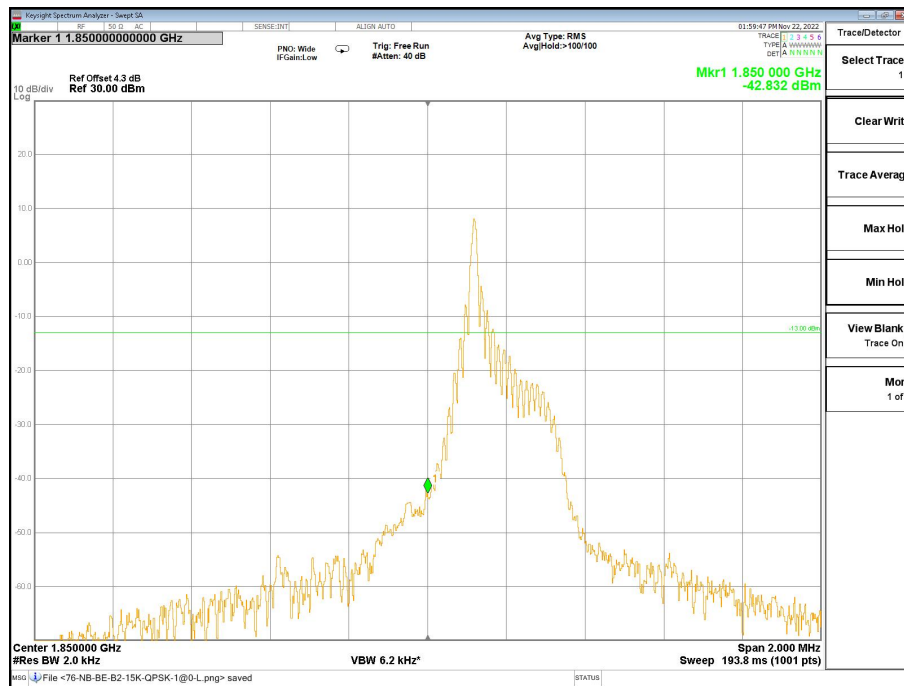


Low Channel, Subcarrier (15kHz), QPSK, 1@0

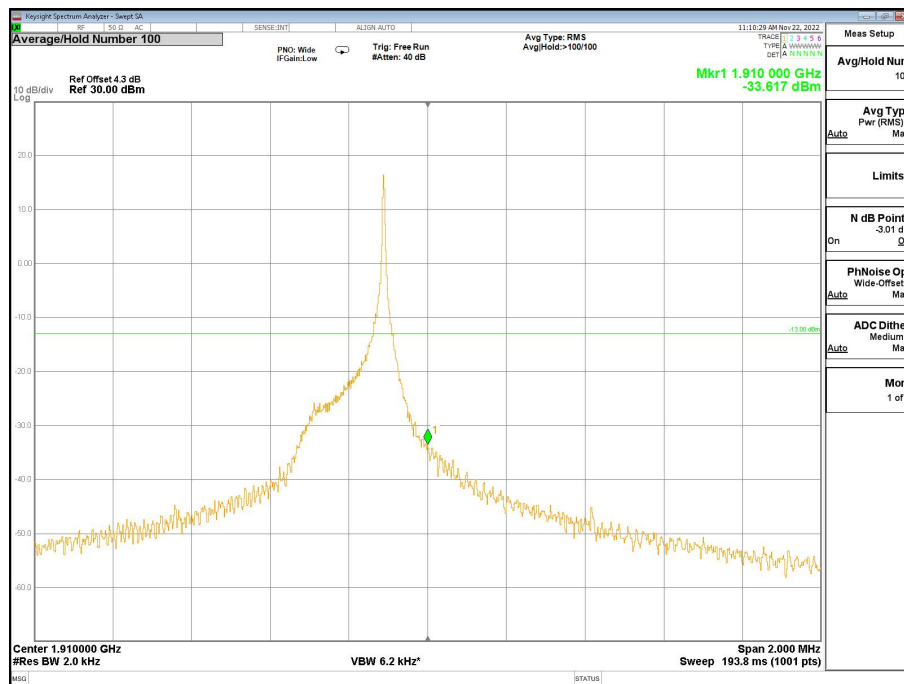


Low Channel, Subcarrier (15kHz), QPSK, 12@0

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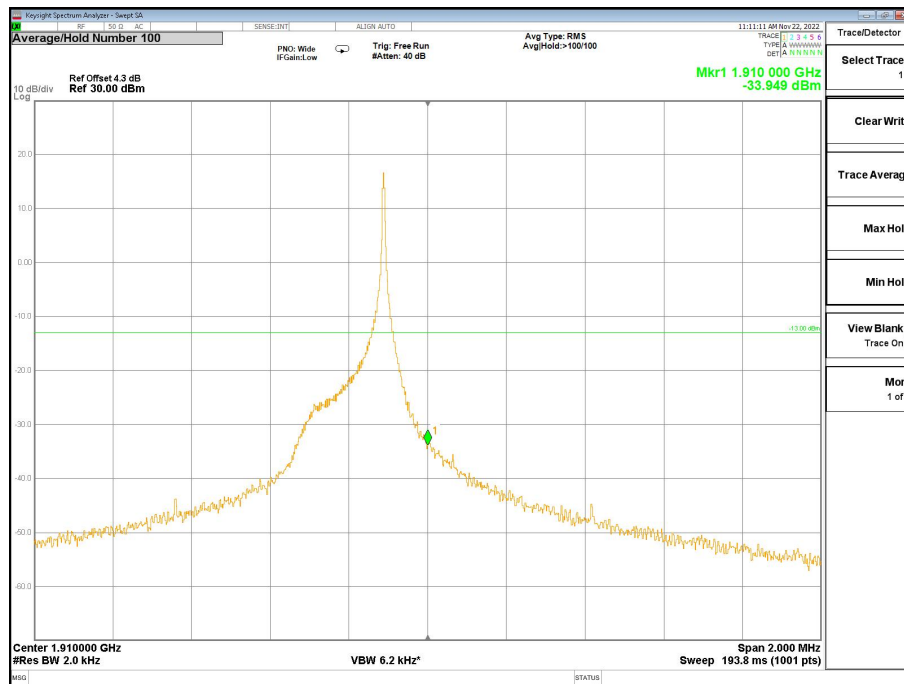
Low Channel, Subcarrier (15kHz), BPSK, 1@0



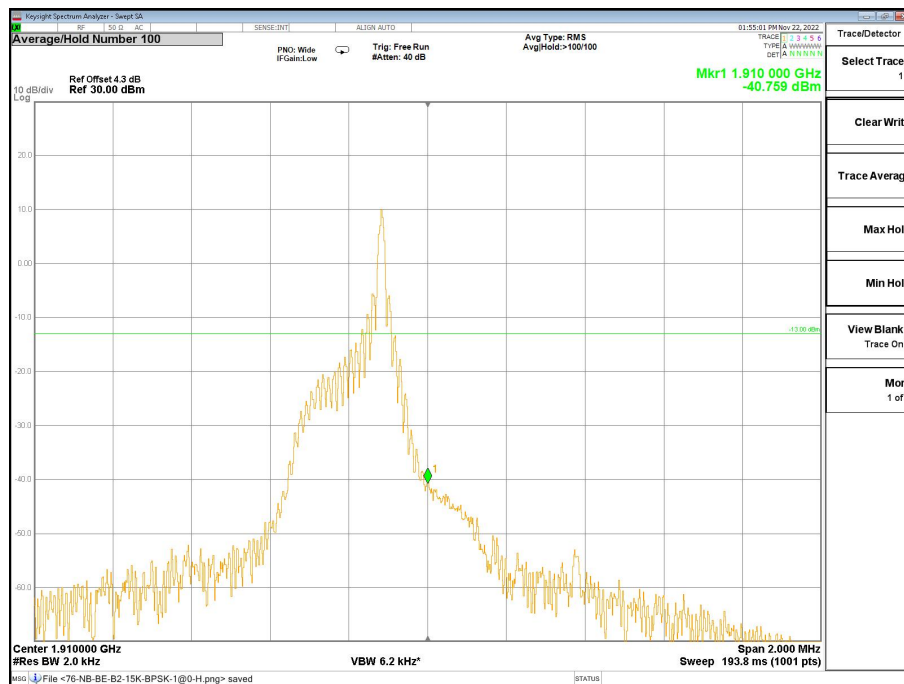
High Channel, Subcarrier (3.75kHz), QPSK, 1@47

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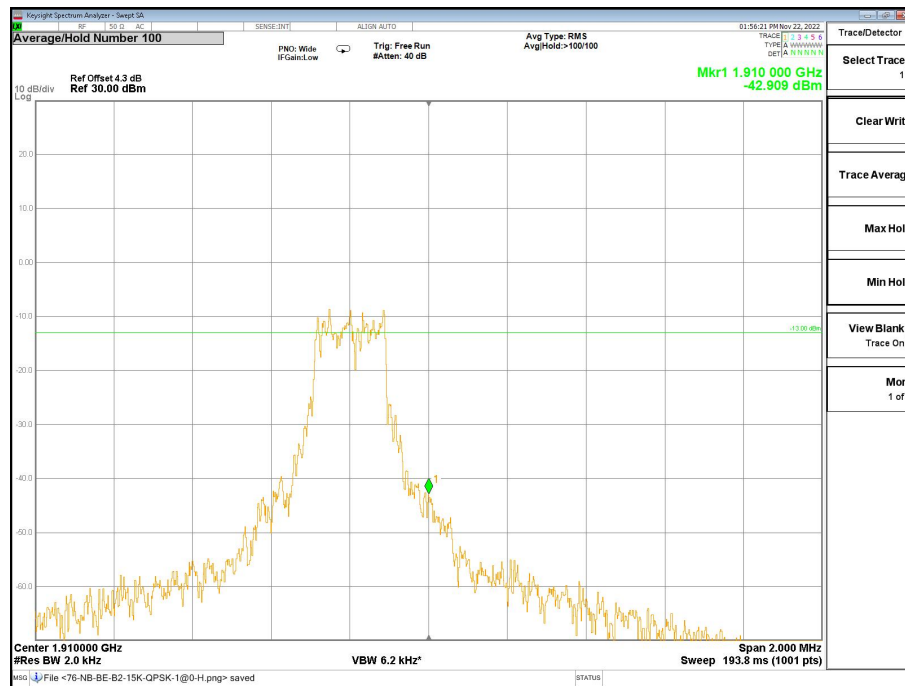
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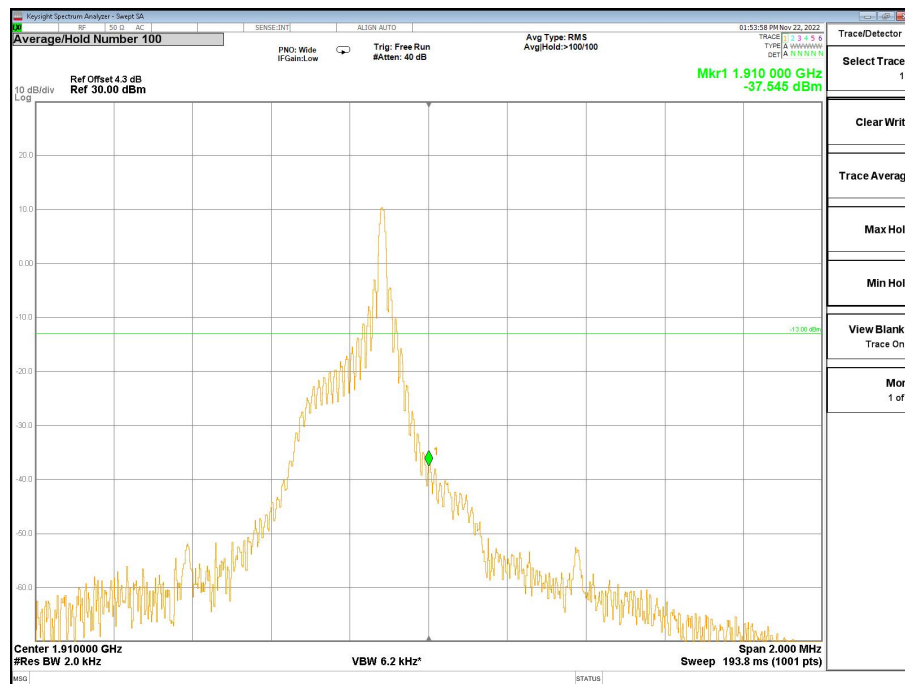
High Channel, Subcarrier (3.75kHz), BPSK, 1@47



High Channel, Subcarrier (15kHz), QPSK, 1@11

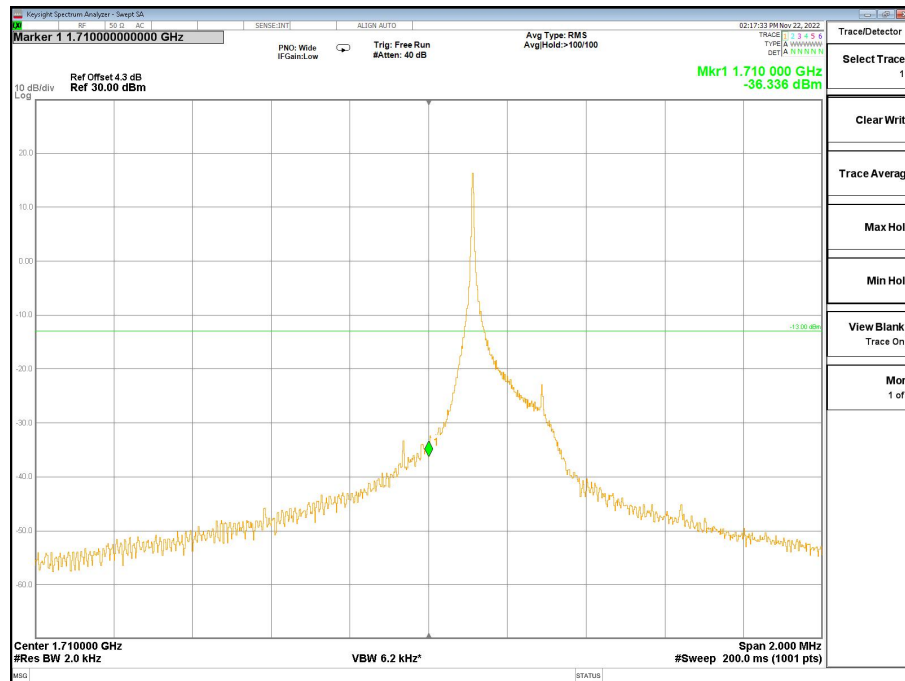


High Channel, Subcarrier (15kHz), QPSK, 12@0

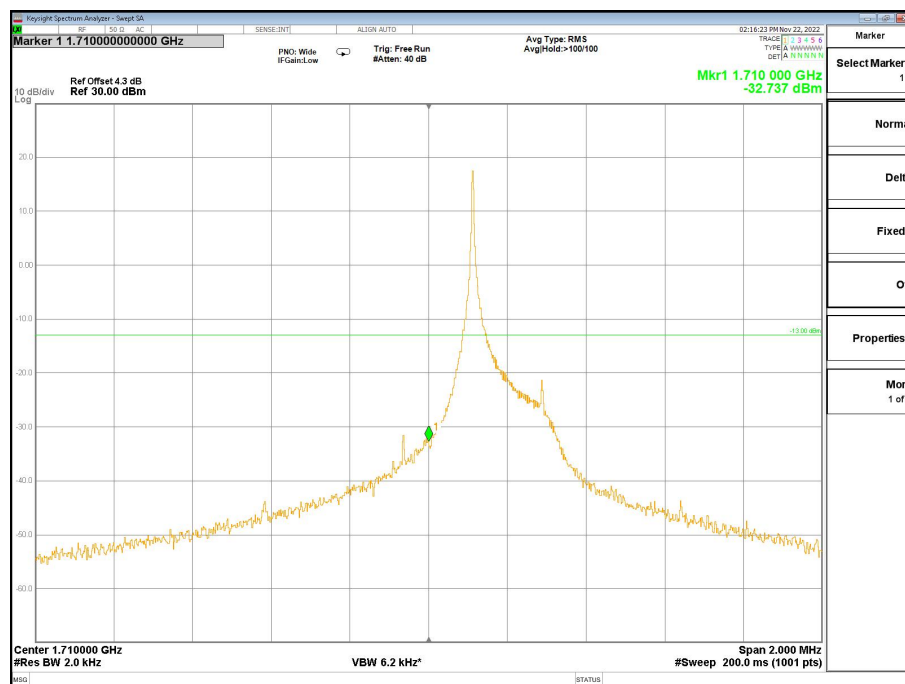


High Channel, Subcarrier (15kHz), BPSK, 1@11

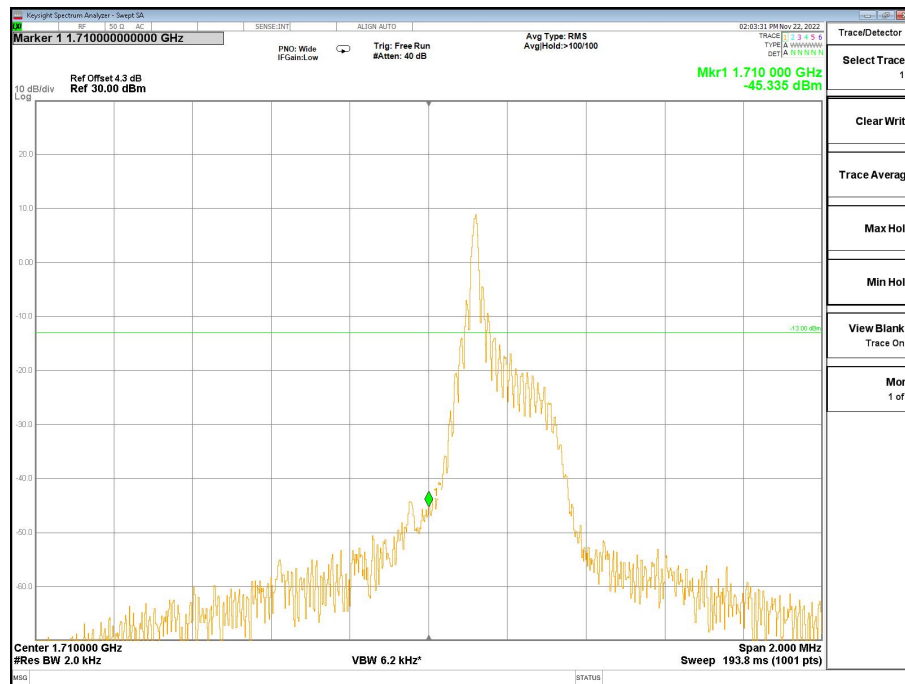
6.7.2 NB-IoT Band 4 Edge Results



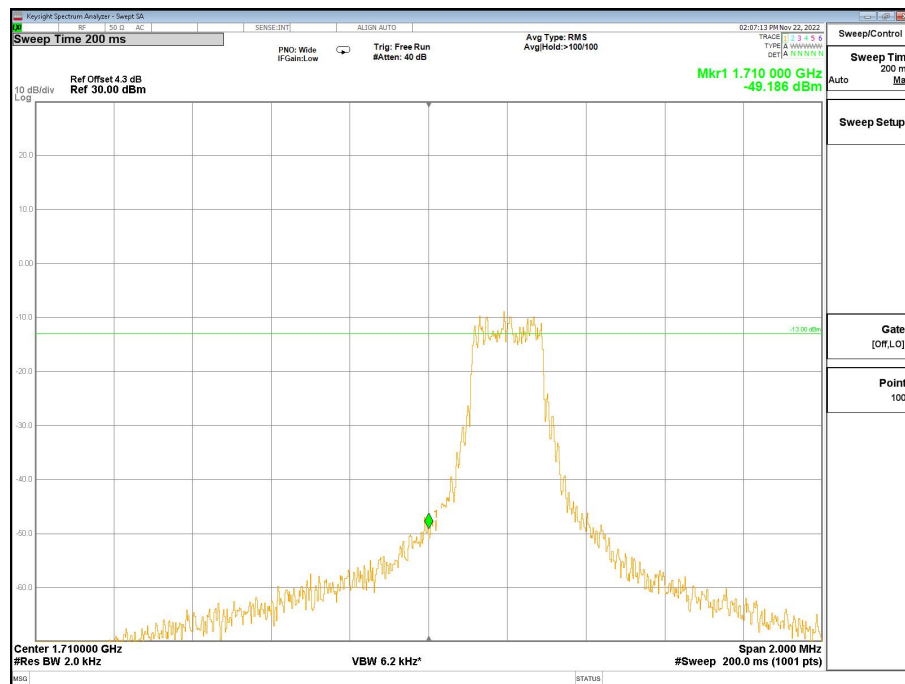
Low Channel, Subcarrier (3.75kHz), QPSK, 1@0



Low Channel, Subcarrier (3.75kHz), BPSK, 1@0

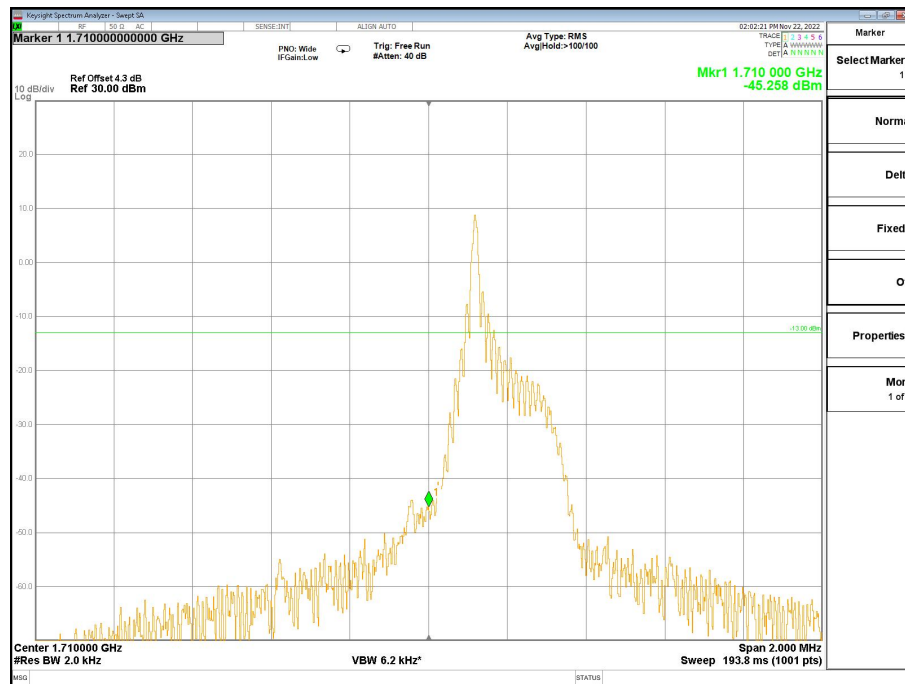


Low Channel, Subcarrier (15kHz), QPSK, 1@0

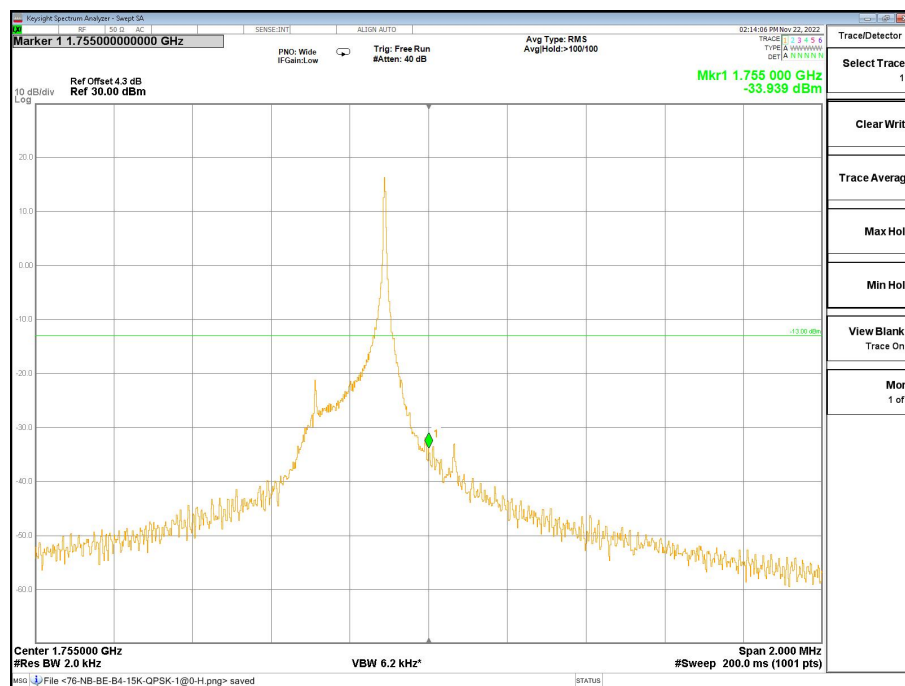


Low Channel, Subcarrier (15kHz), QPSK, 12@0

Report No.: I22W00076-NB-IoT RF-FCC_Rev2



Low Channel, Subcarrier (15kHz), BPSK, 1@0

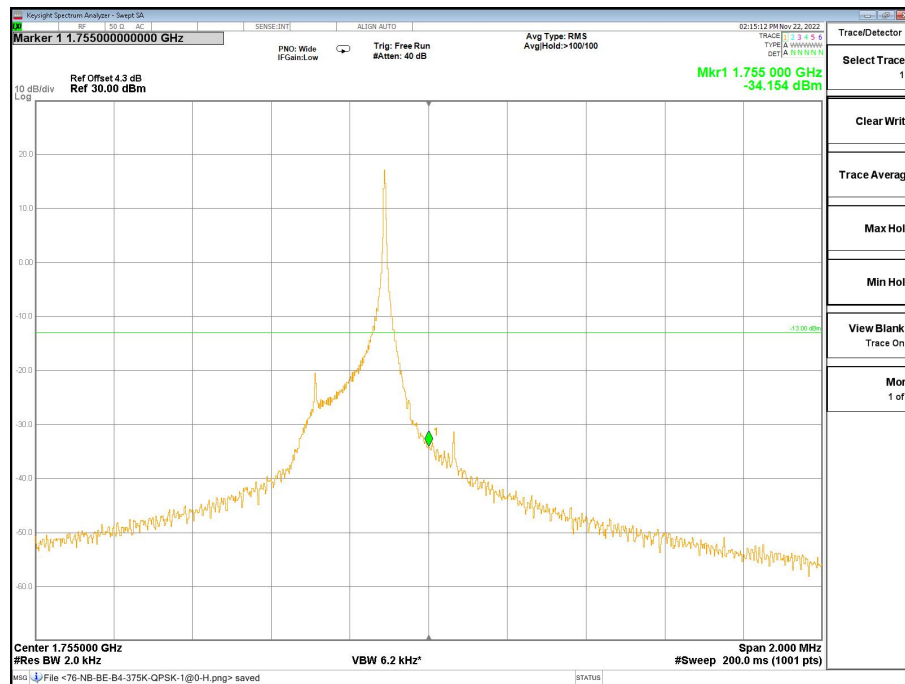


High Channel, Subcarrier (3.75kHz), QPSK, 1@47

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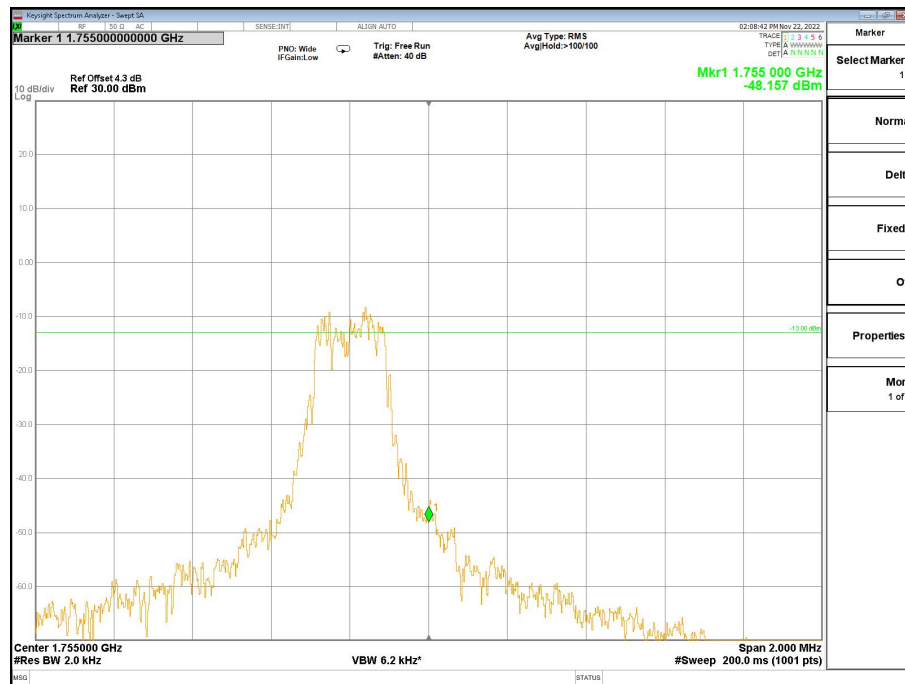
High Channel, Subcarrier (3.75kHz), BPSK, 1@47



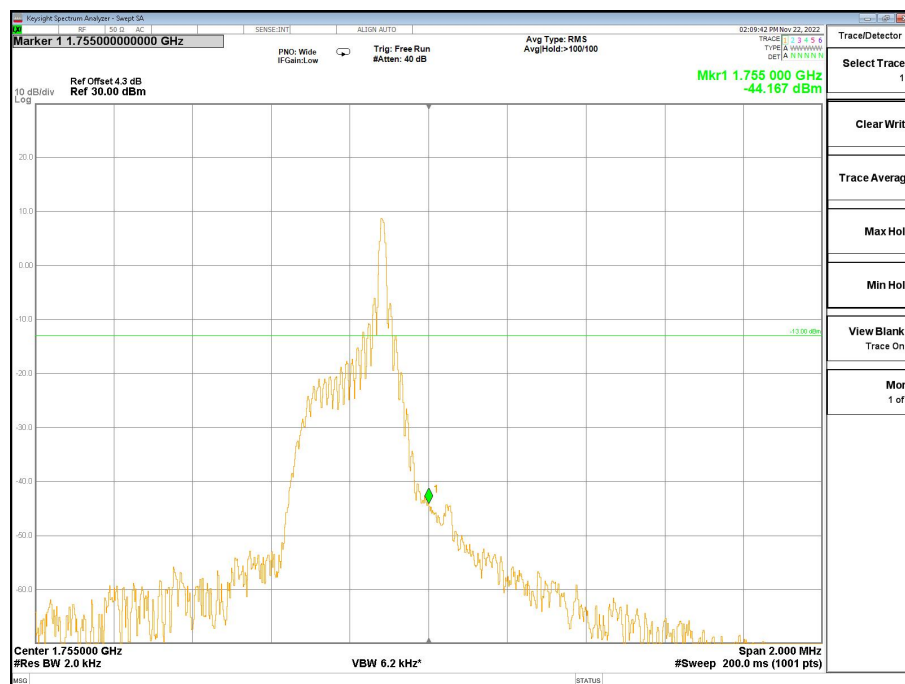
High Channel, Subcarrier (15kHz), QPSK, 1@11

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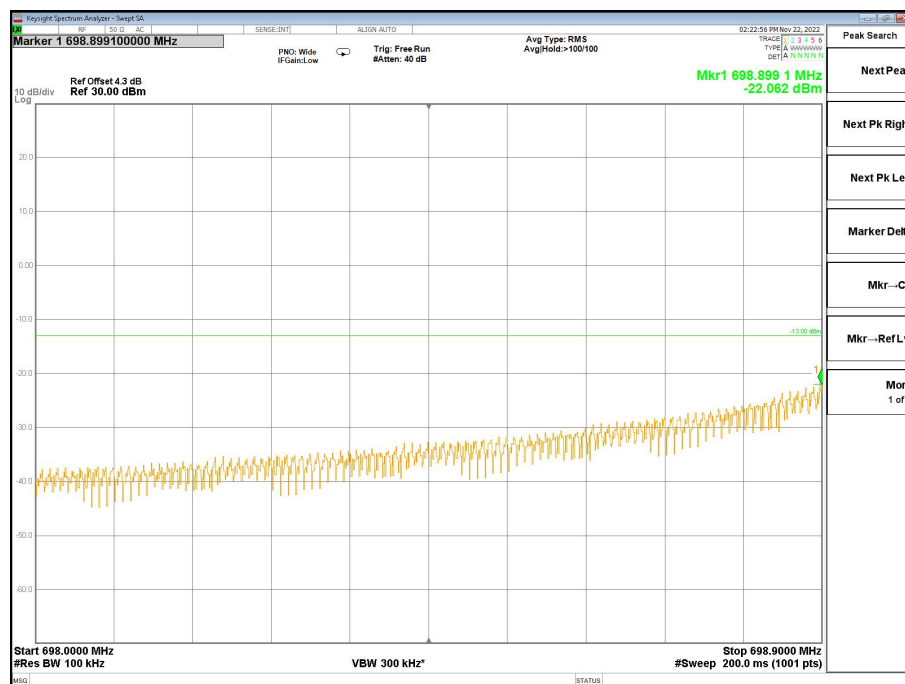
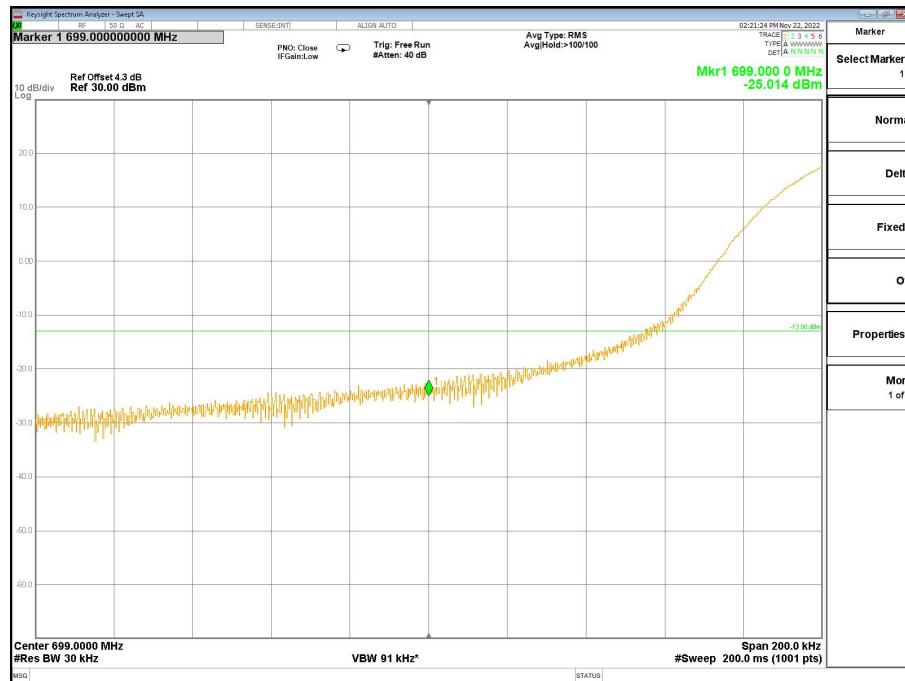


High Channel, Subcarrier (15kHz), QPSK, 12@0



High Channel, Subcarrier (15kHz), BPSK, 1@11

6.7.3 NB-IoT Band 12 Edge Results

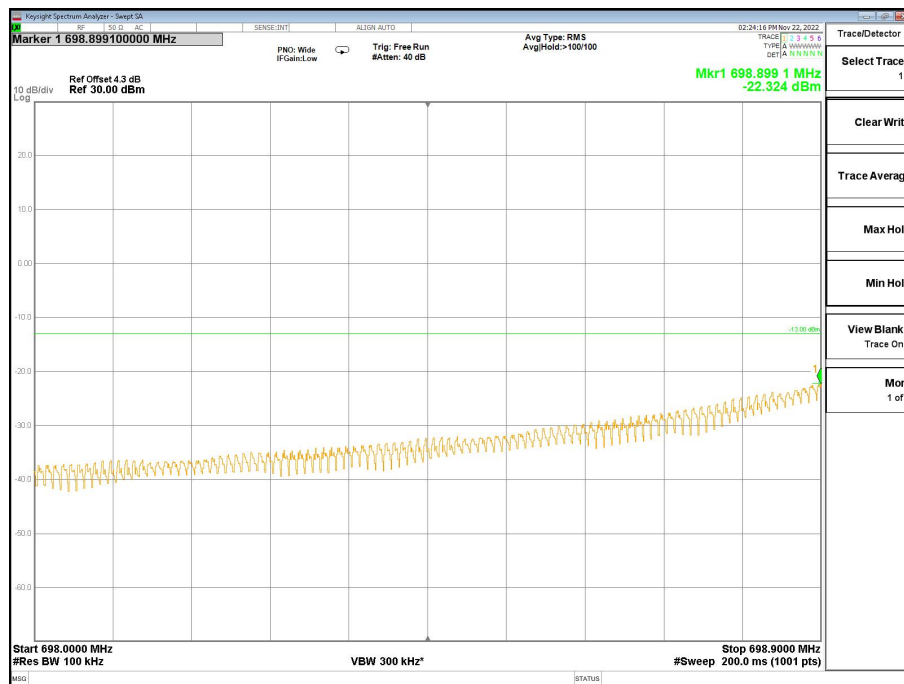
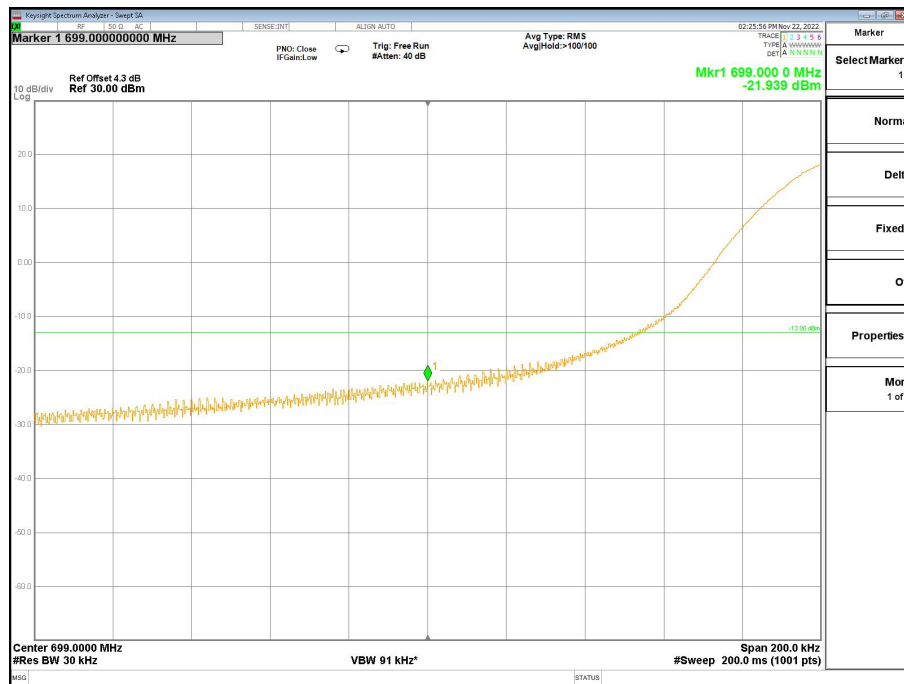


Low Channel, Subcarrier (3.75kHz), QPSK, 1@0

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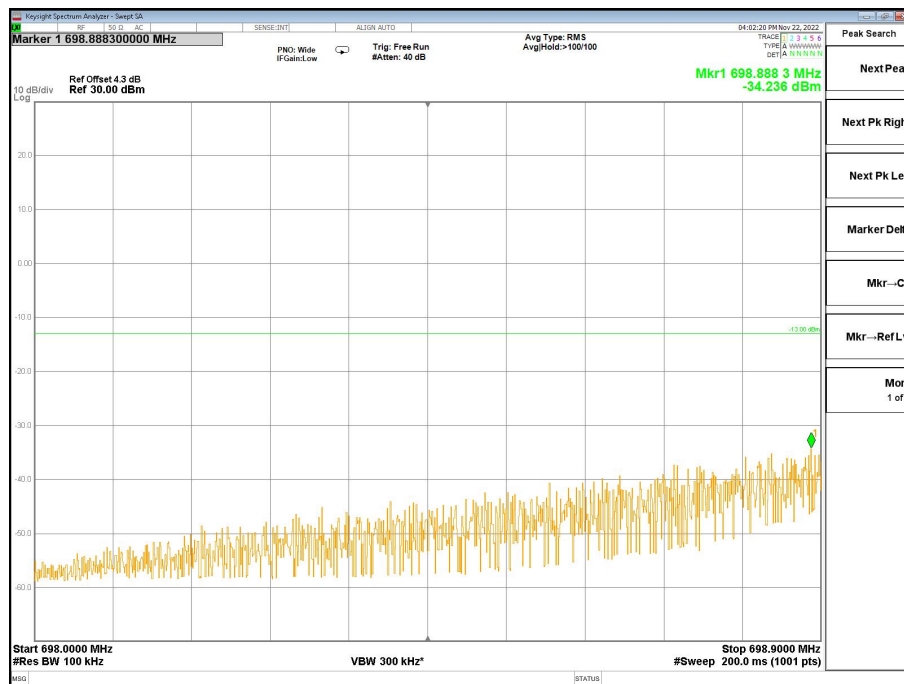
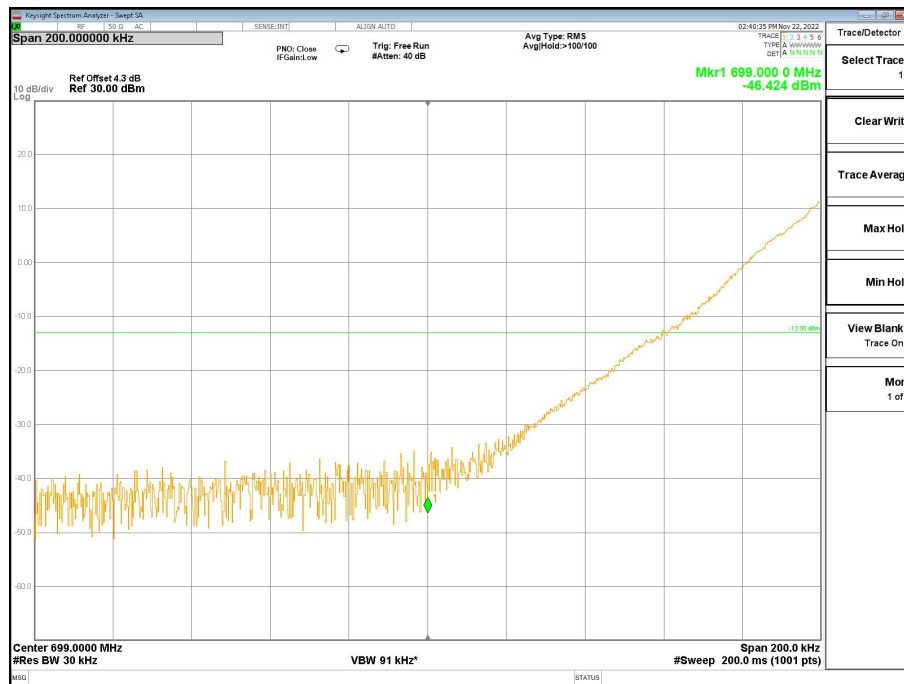


Low Channel, Subcarrier (3.75kHz), BPSK, 1@0

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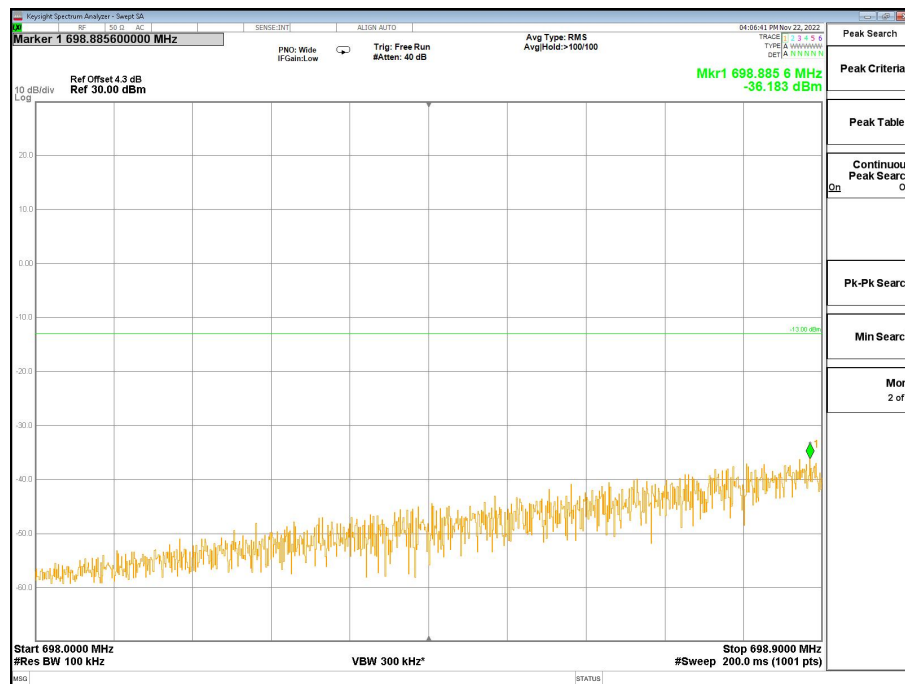
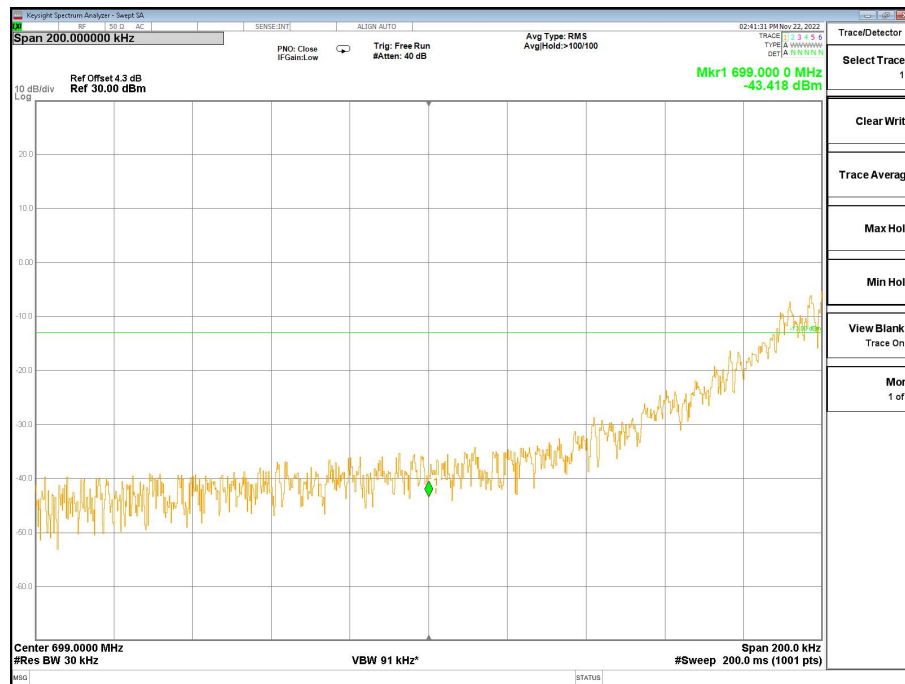
Report No.: I22W00076-NB-IoT RF-FCC_Rev2



Low Channel, Subcarrier (15kHz), QPSK, 1@0

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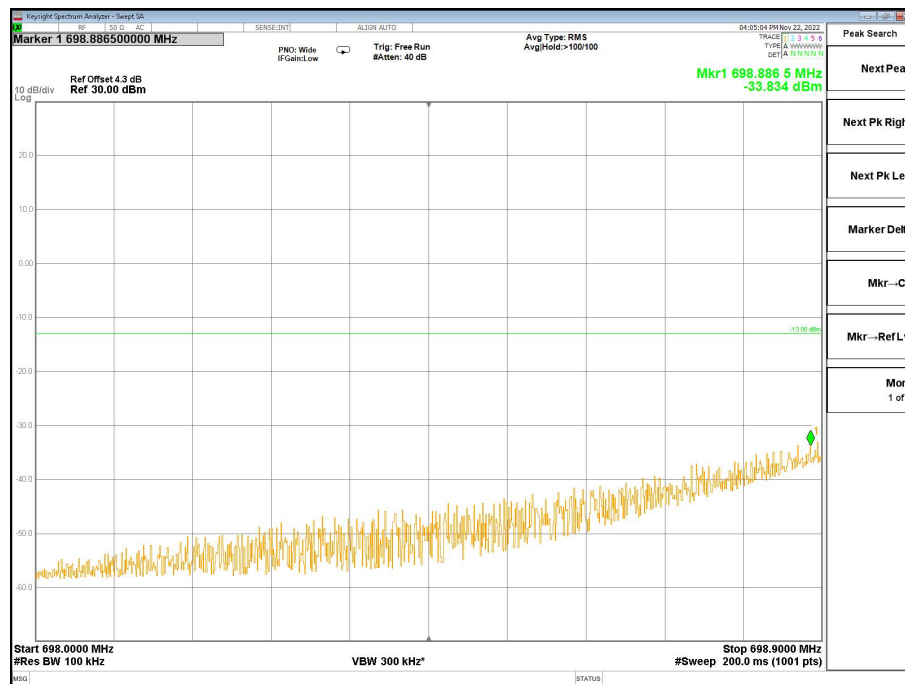
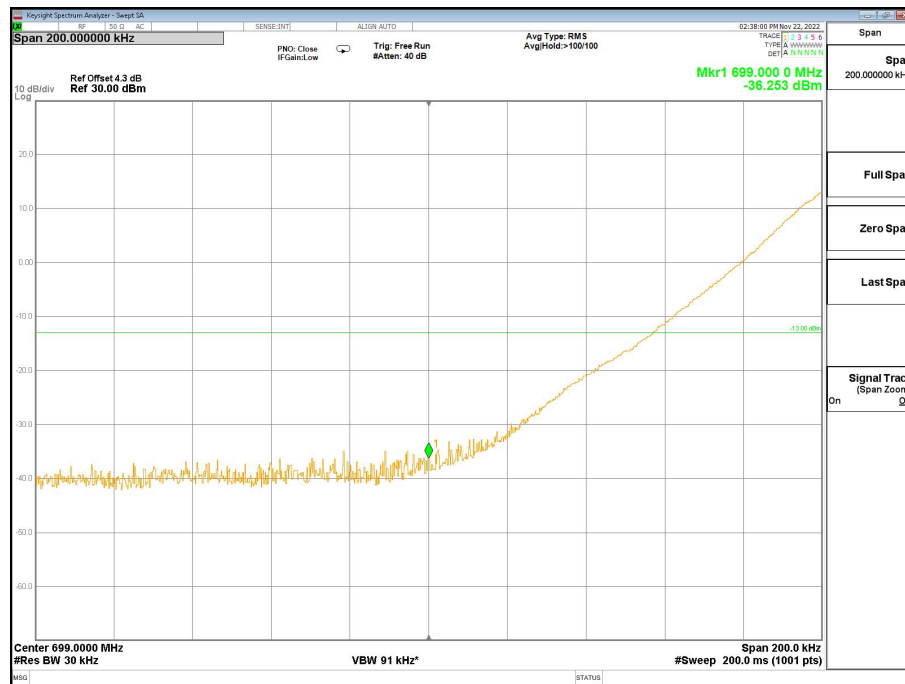
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Low Channel, Subcarrier (15kHz), QPSK, 12@0

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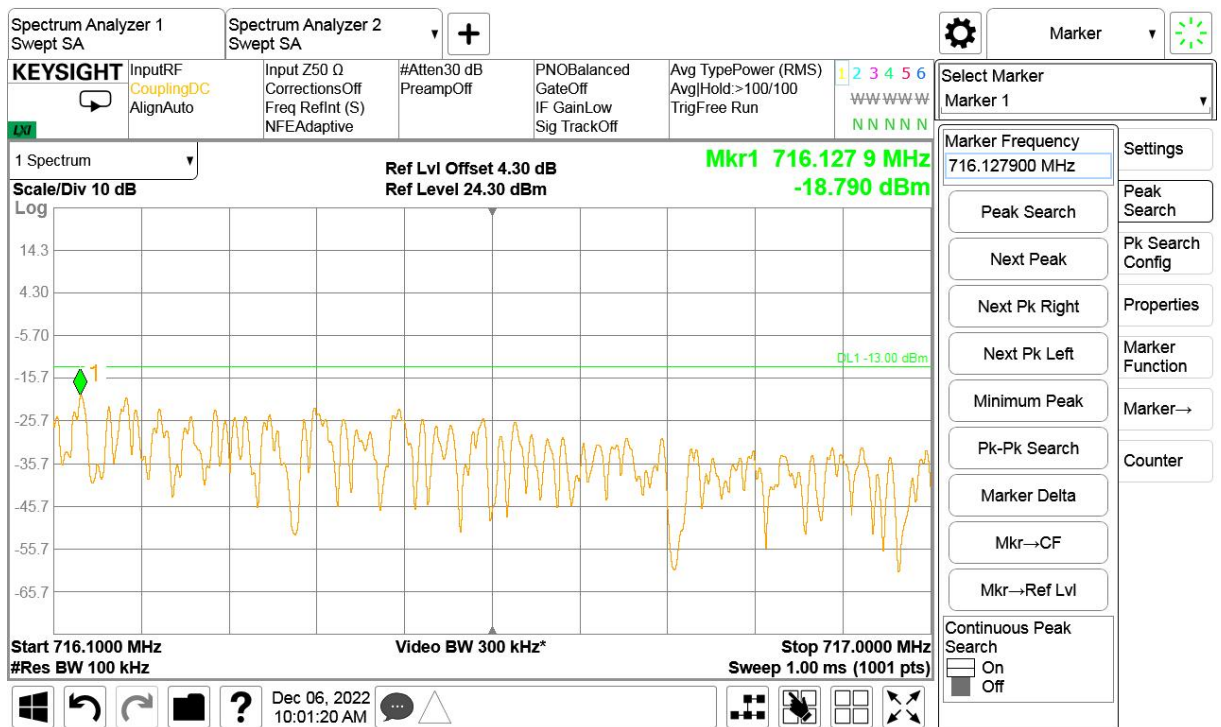
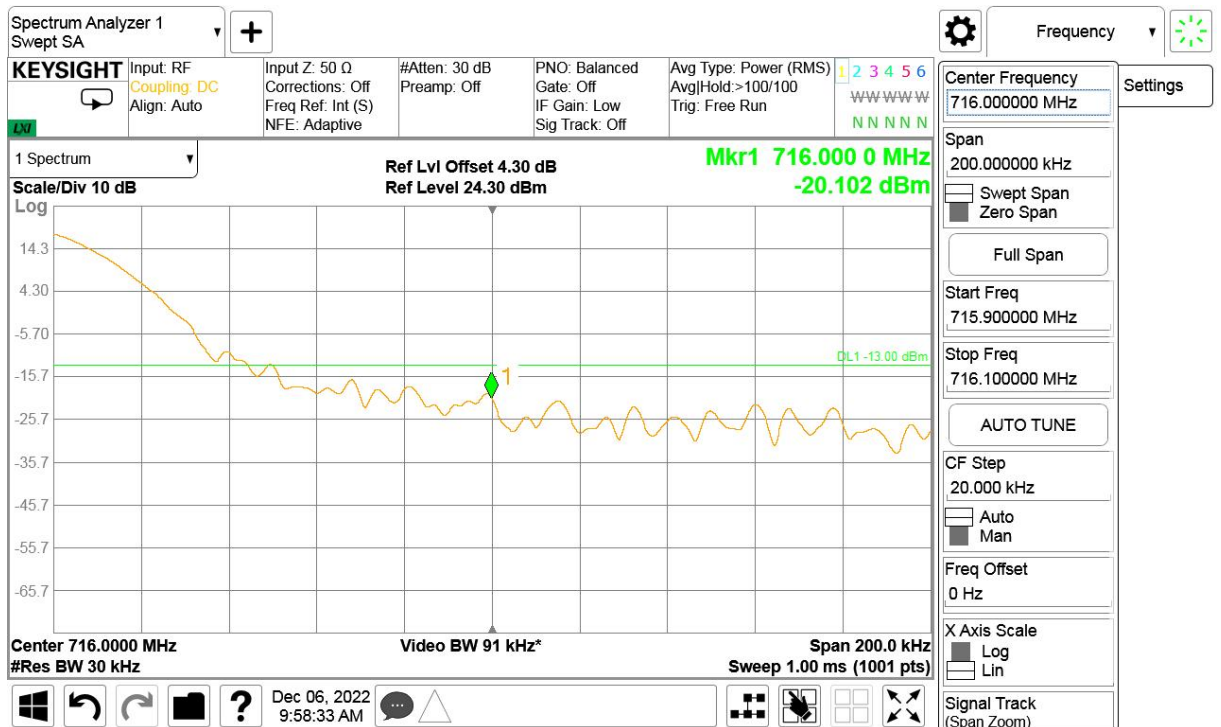
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Low Channel, Subcarrier (15kHz), BPSK, 1@0

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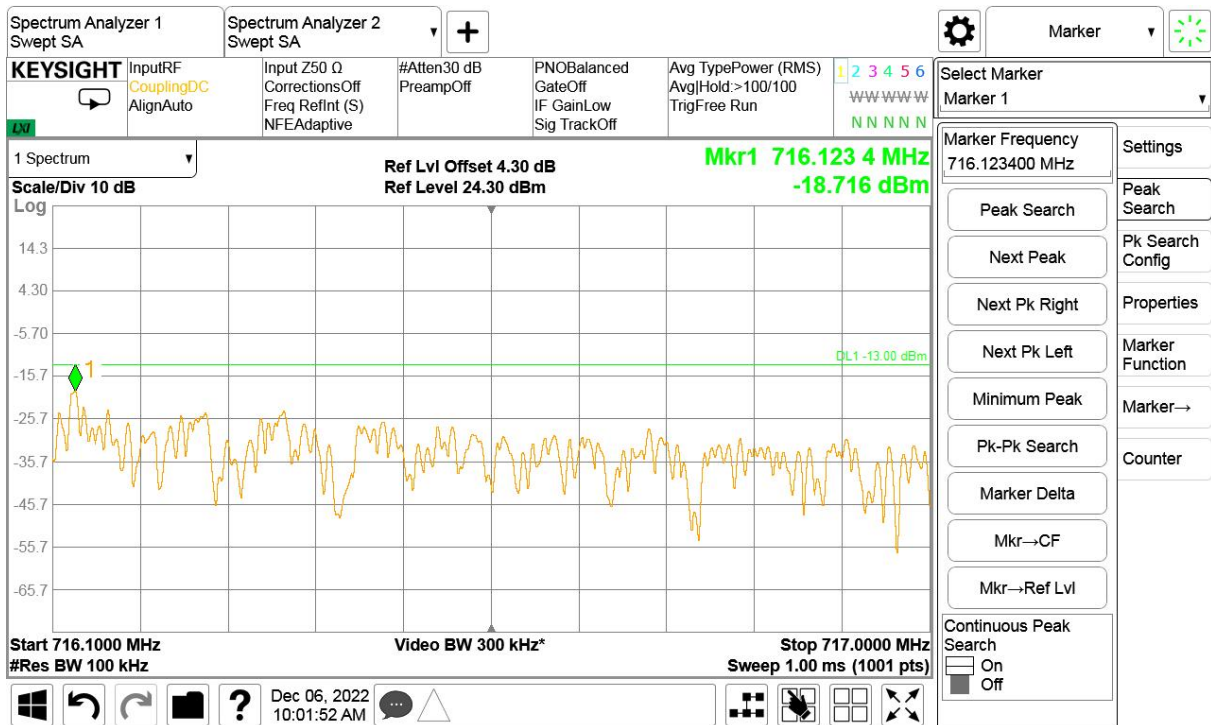
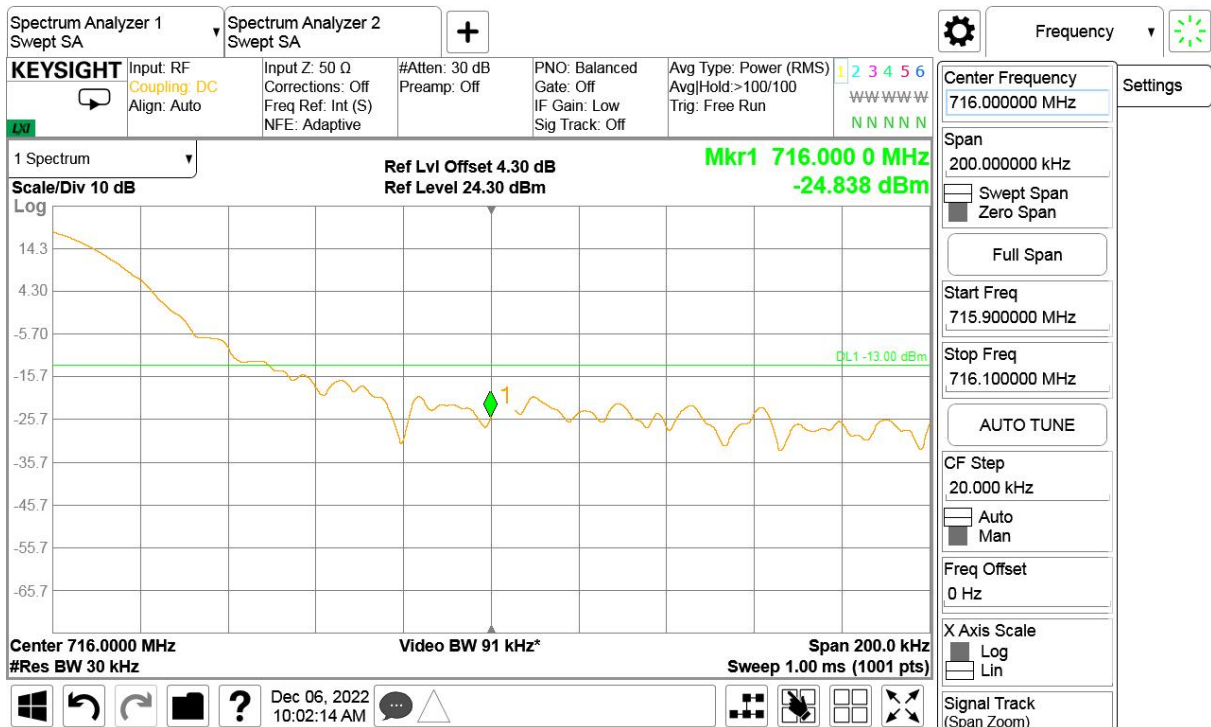
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High Channel, Subcarrier (3.75kHz), QPSK, 1@47

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High Channel, Subcarrier (3.75kHz), BPSK, 1@47

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