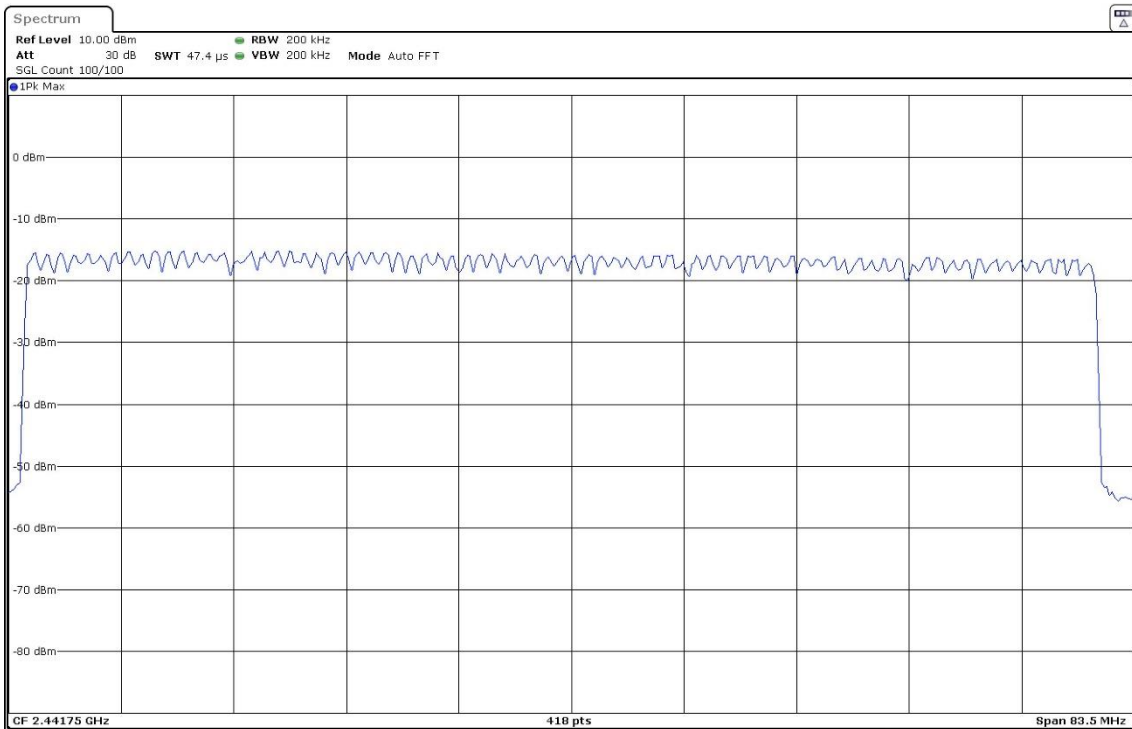
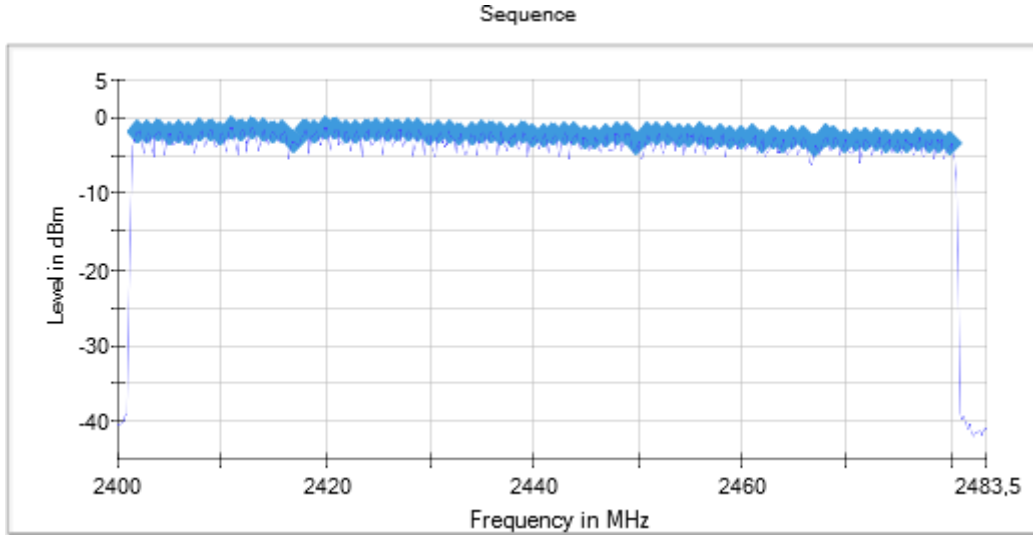


Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5), Number of Transmission Chains = 1, Active Port = 1

Images:



FCC 15.247 (b) (1) Maximum Peak Conducted output power

Limits

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels: 1 watt (30 dBm).

Results

The maximum peak conducted output power level of the fundamental emission was measured according to clause 7.8.5 "Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices" of ANSI C63.10-2013.

The EIRP power (dBm) is calculated by adding the maximum declared antenna gain to the measured conducted power.

Maximum Declared Antenna Gain: 2 dBi

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Modulation: BT (GFSK 1-DH5)

Peak Conducted Output Power	Low Channel 2402 MHz	Middle Channel 2441 MHz	High Channel 2480 MHz
Maximum Conducted Power (dBm)	-1.449	-1.726	-2.585
Maximum EIRP (dBm)	0.551	0.274	-0.585

Modulation: BT (Pi/4 DQPSK 2-DH5)

Peak Conducted Output Power	Low Channel 2402 MHz	Middle Channel 2441 MHz	High Channel 2480 MHz
Maximum Conducted Power (dBm)	0.016	-0.202	-0.690
Maximum EIRP (dBm)	2.016	1.798	1.310

Modulation: BT (8DPSK 3-DH5)

Peak Conducted Output Power	Low Channel 2402 MHz	Middle Channel 2441 MHz	High Channel 2480 MHz
Maximum Conducted Power (dBm)	-0.005	0.003	-0.849
Maximum EIRP (dBm)	1.995	2.003	1.151

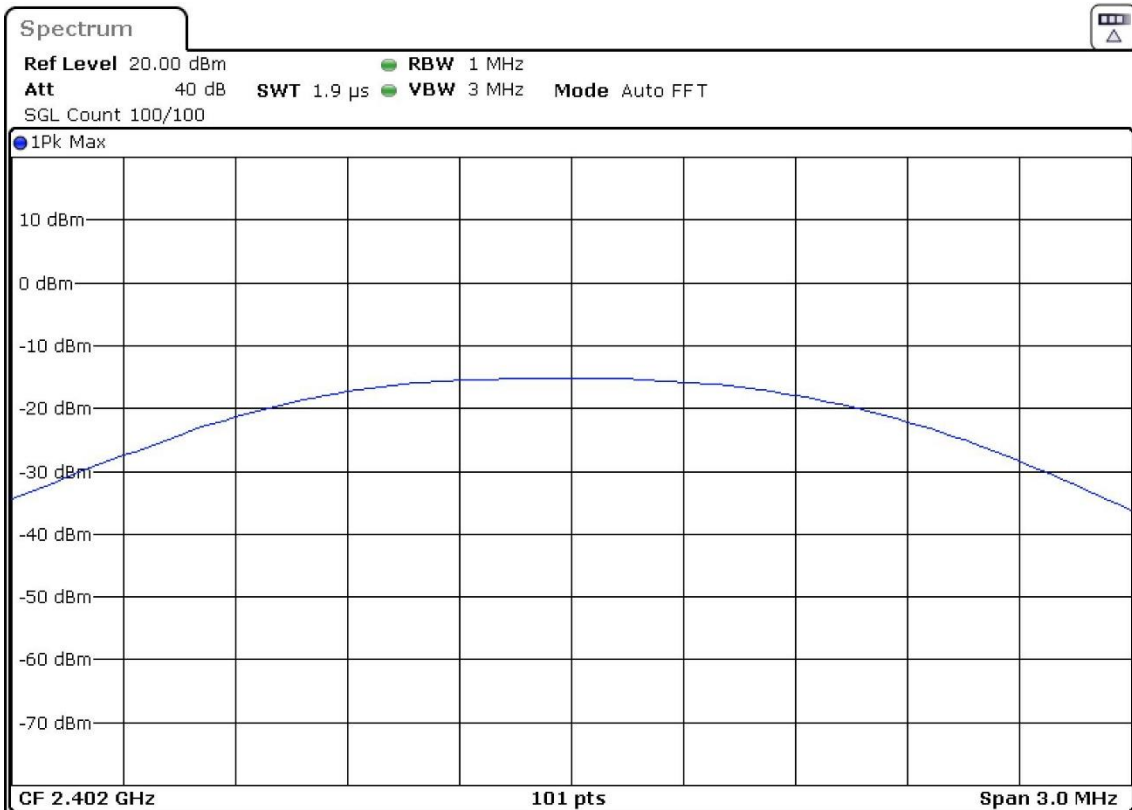
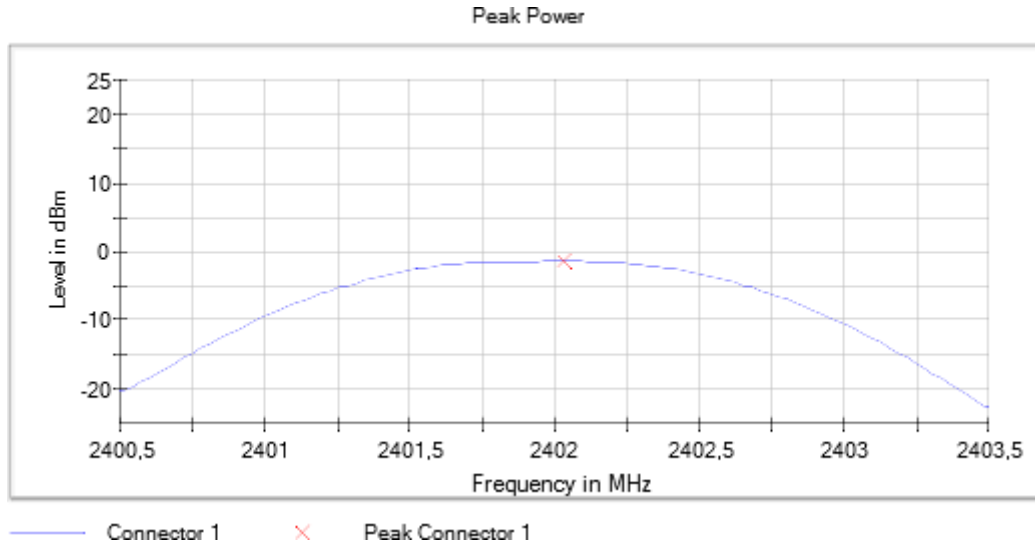
Verdict

Pass

Attachments

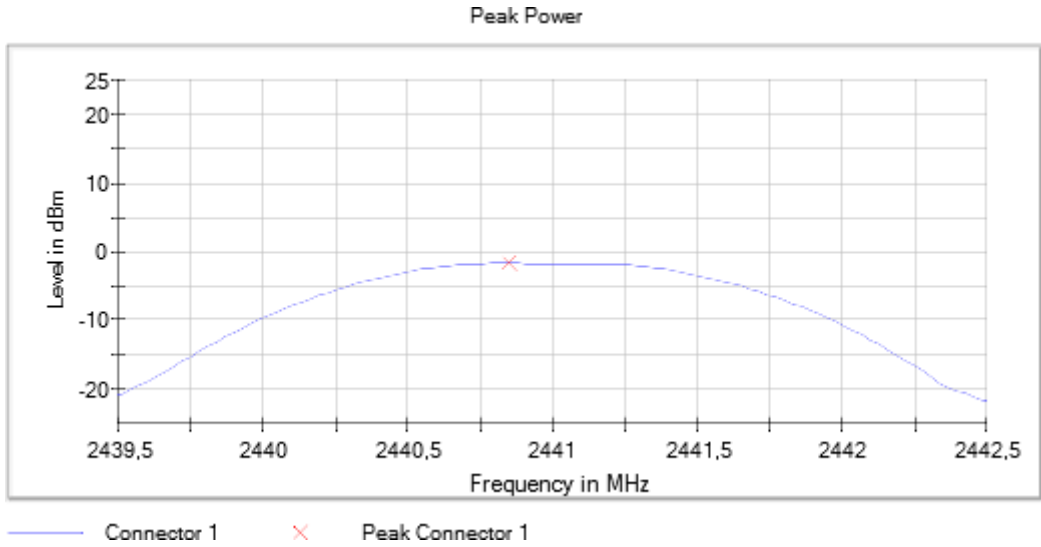
**Frequency MHz = 2402.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
 Bandwidth MHz = 1, Modulation = BT (GFSK 1-DH5), Number of Transmission Chains = 1, Active Port = 1**

Images:



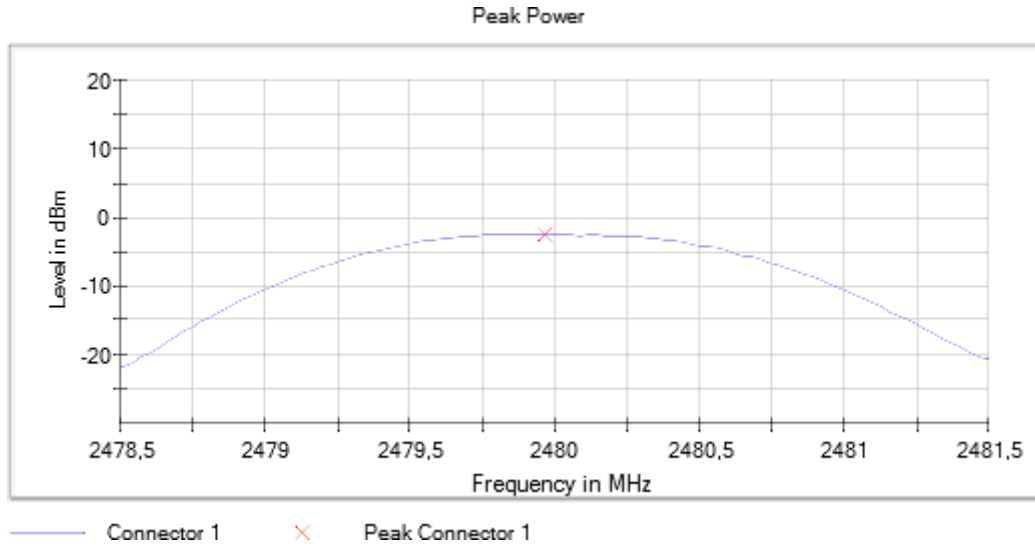
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Bandwidth MHz = 1, Modulation = BT (GFSK 1-DH5), Number of Transmission Chains = 1, Active Port = 1

Images:



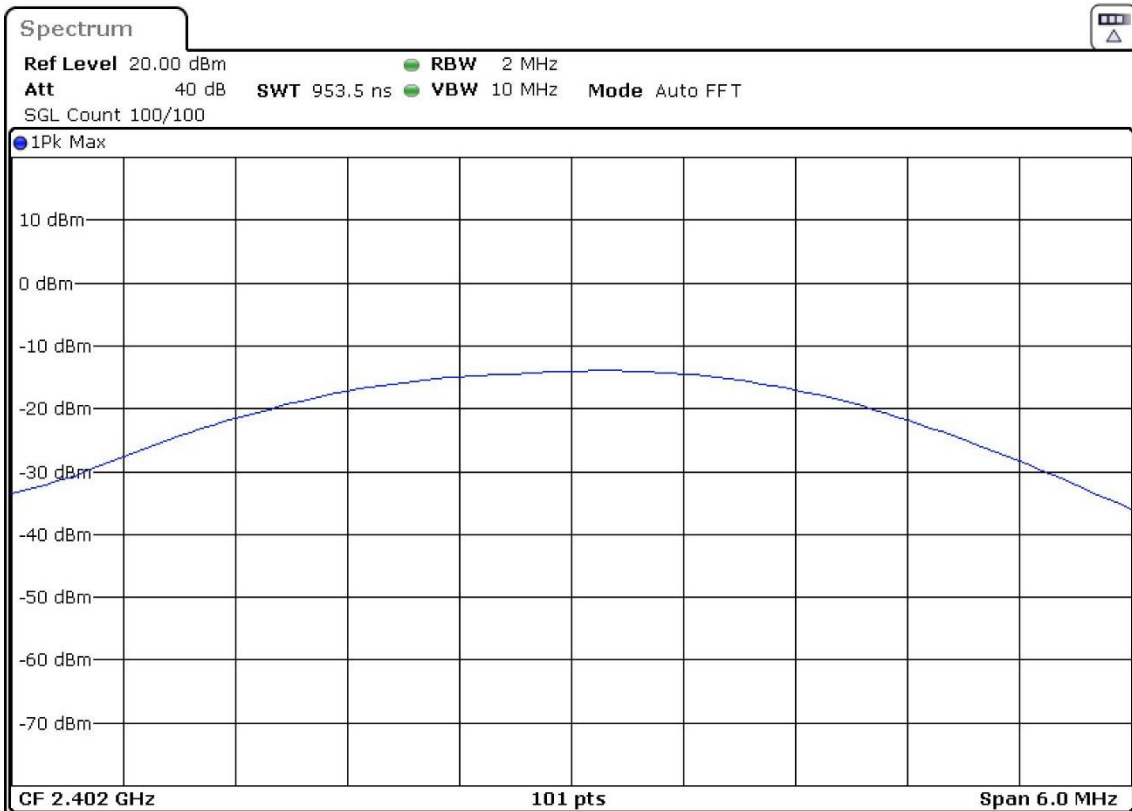
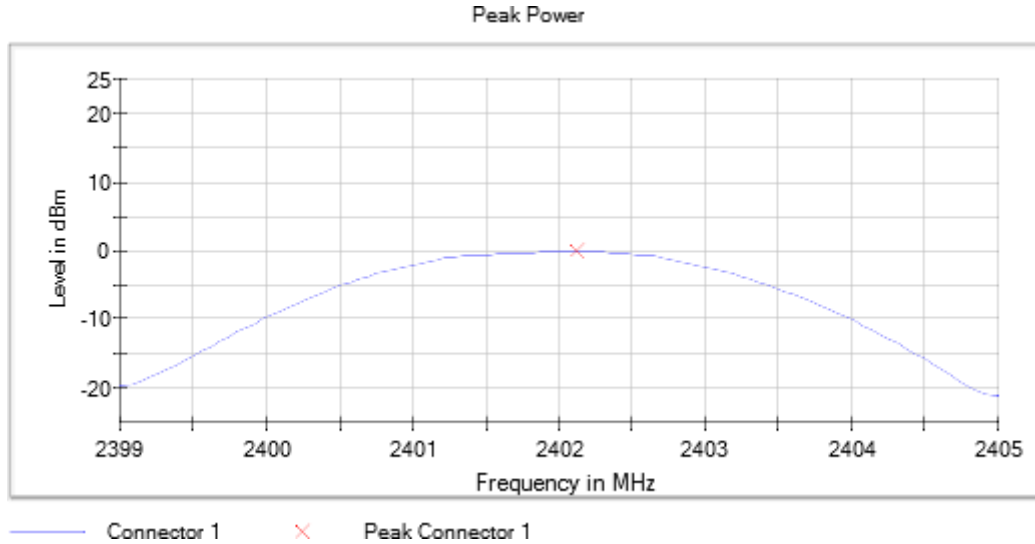
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Images:



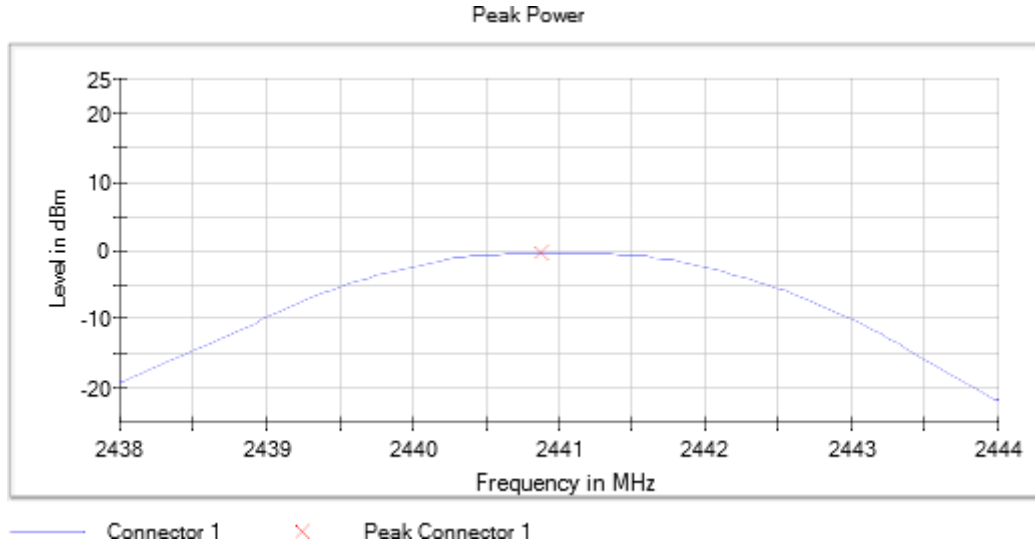
Frequency MHz = 2402.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (Pi/4 DQPSK 2-DH5), Number of Transmission Chains = 1, Active Port = 1

Images:



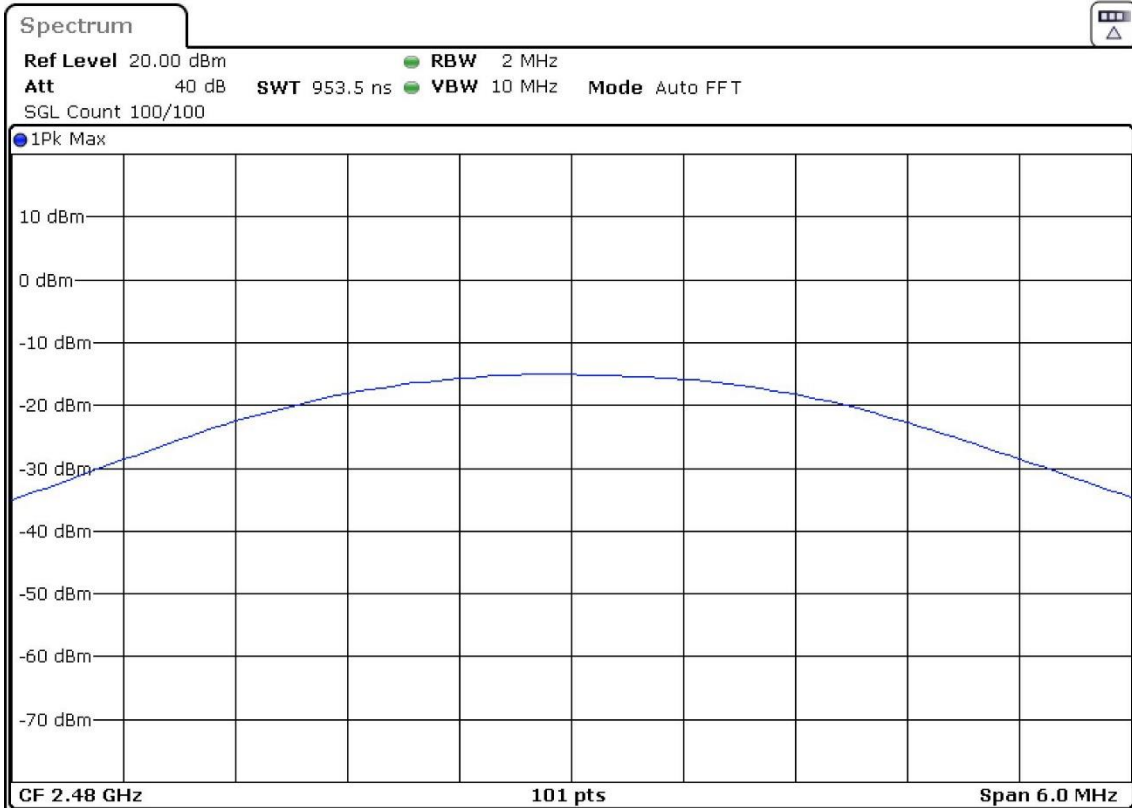
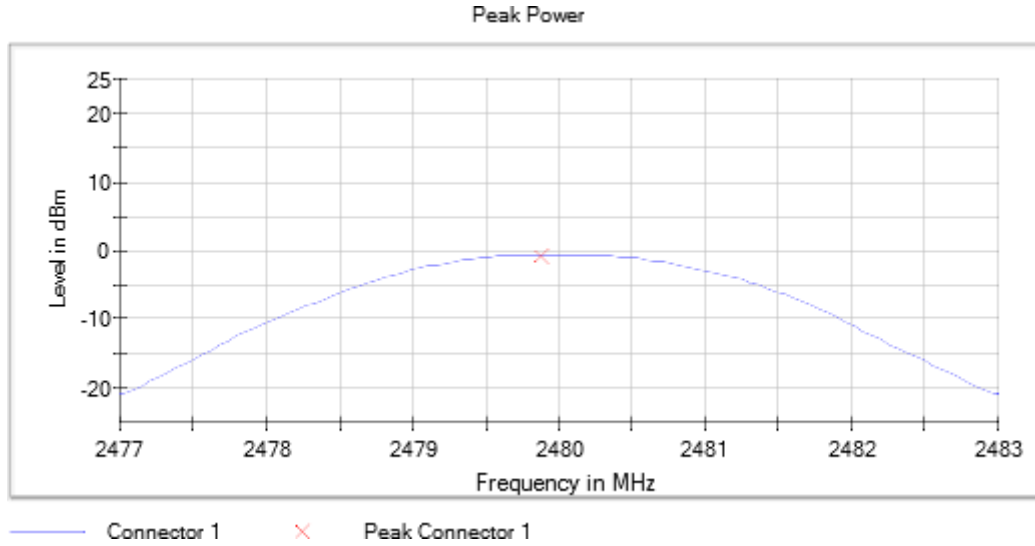
Frequency MHz = 2441.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (Pi/4 DQPSK 2-DH5), Number of Transmission Chains = 1, Active Port = 1

Images:



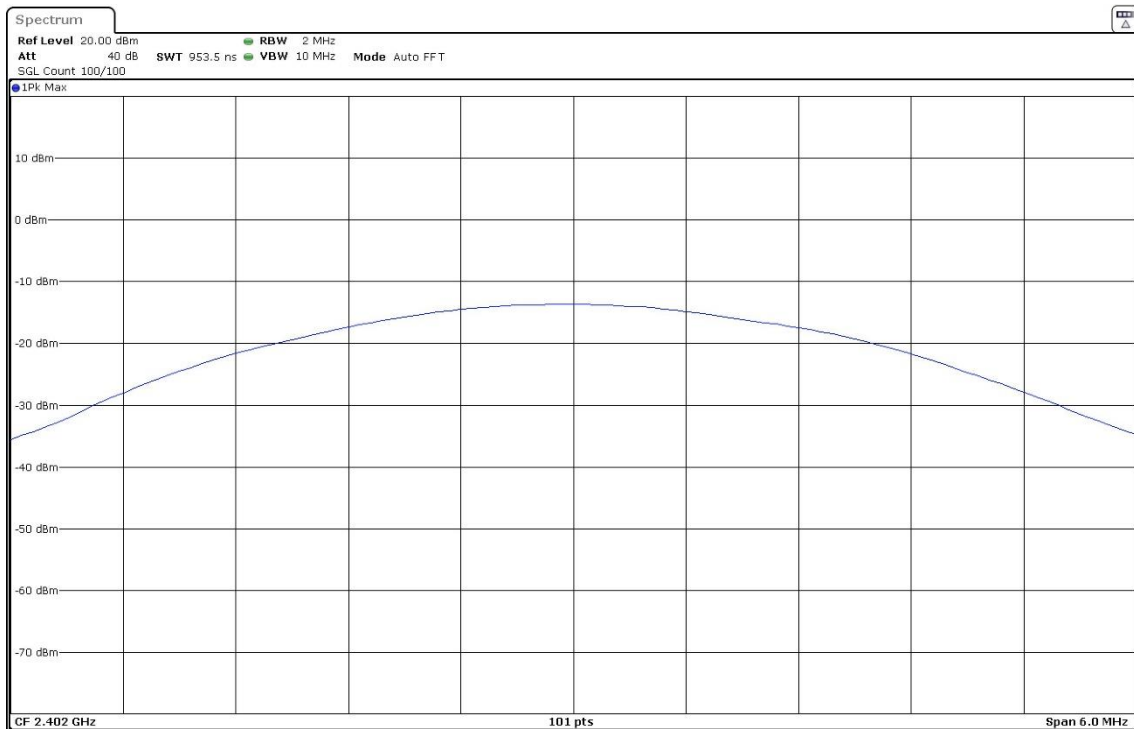
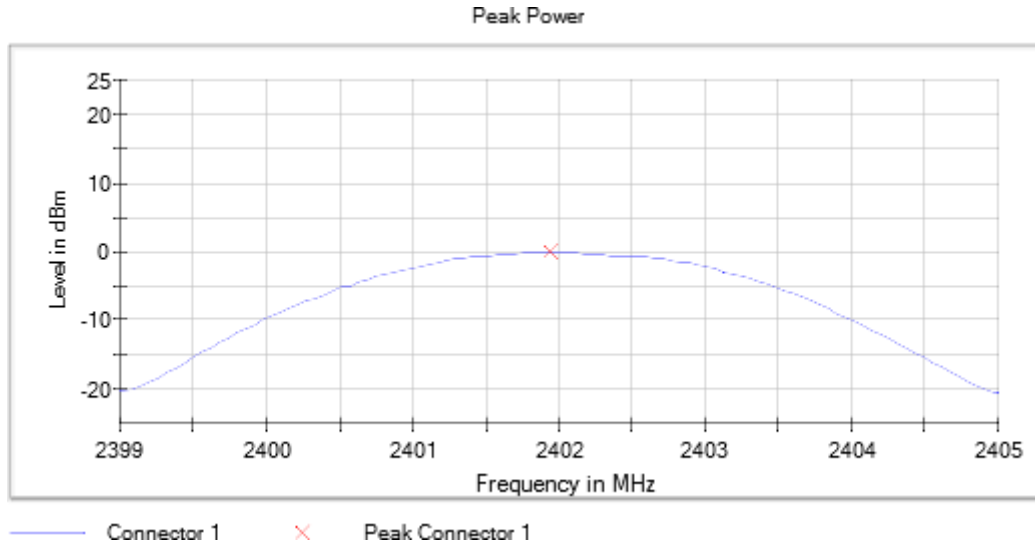
Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (Pi/4 DQPSK 2-DH5), Number of Transmission Chains = 1, Active Port = 1

Images:



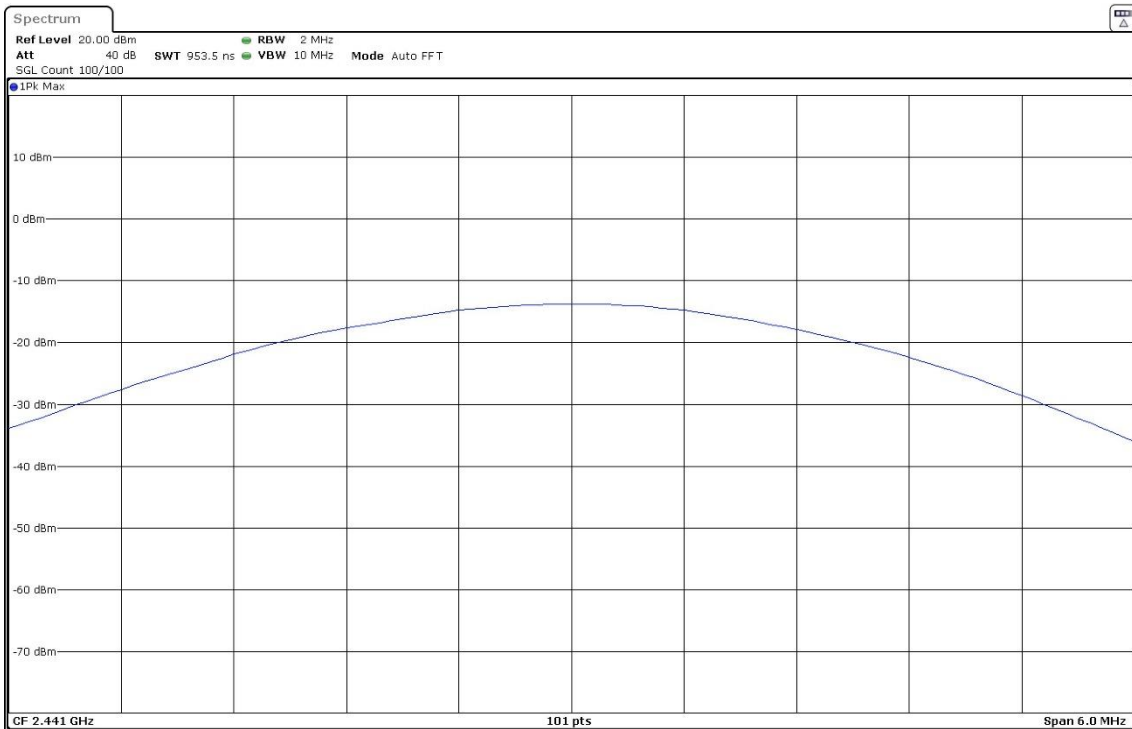
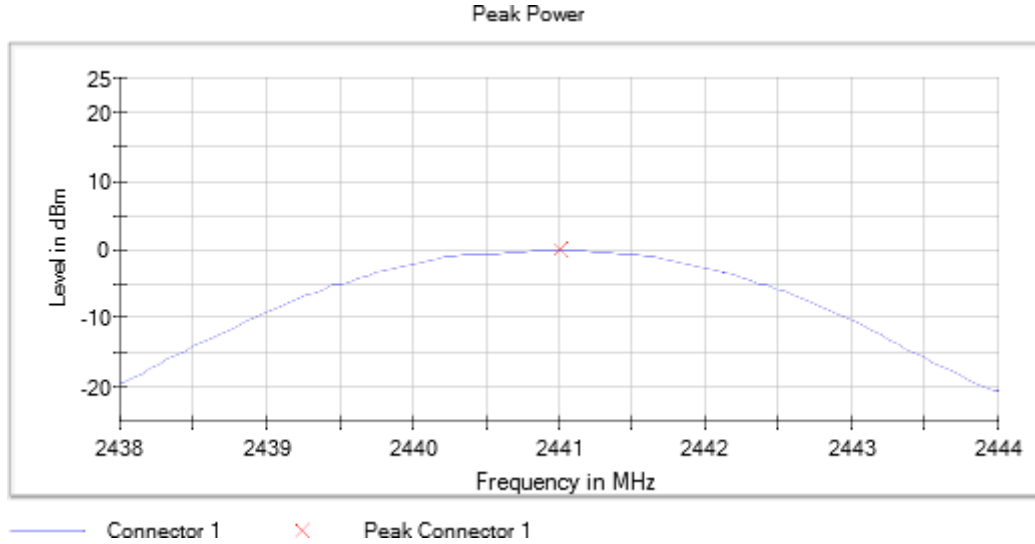
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 Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5), Number of Transmission Chains = 1, Active Port = 1

Images:



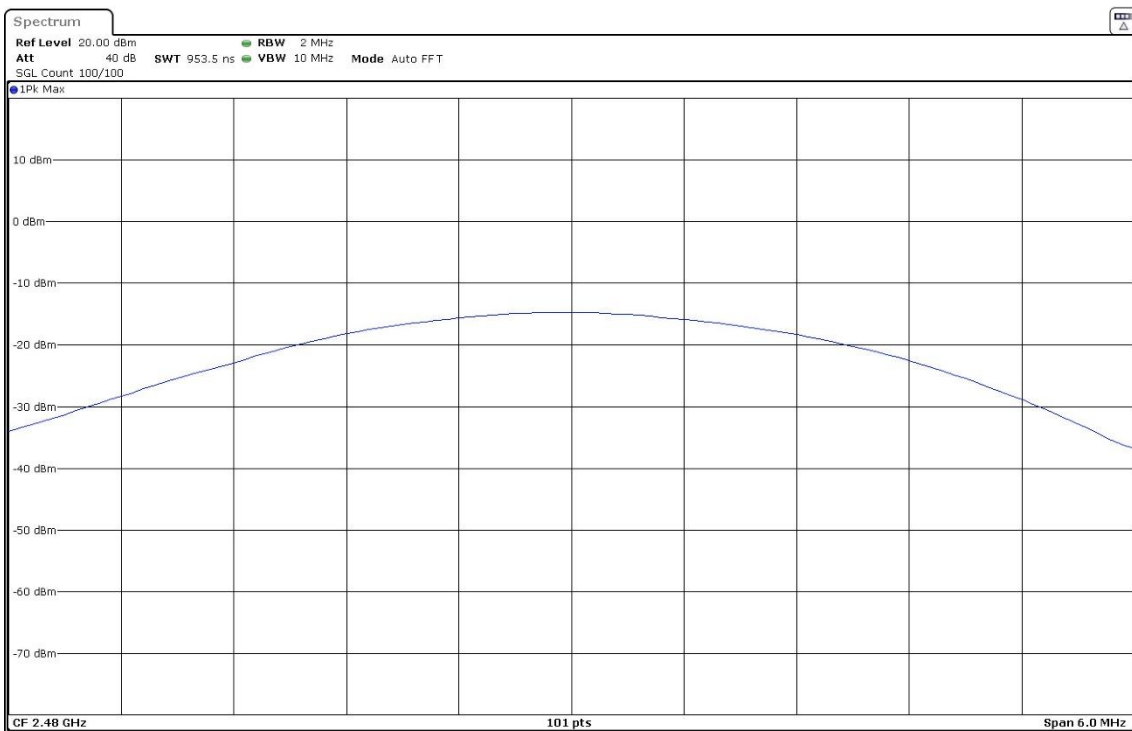
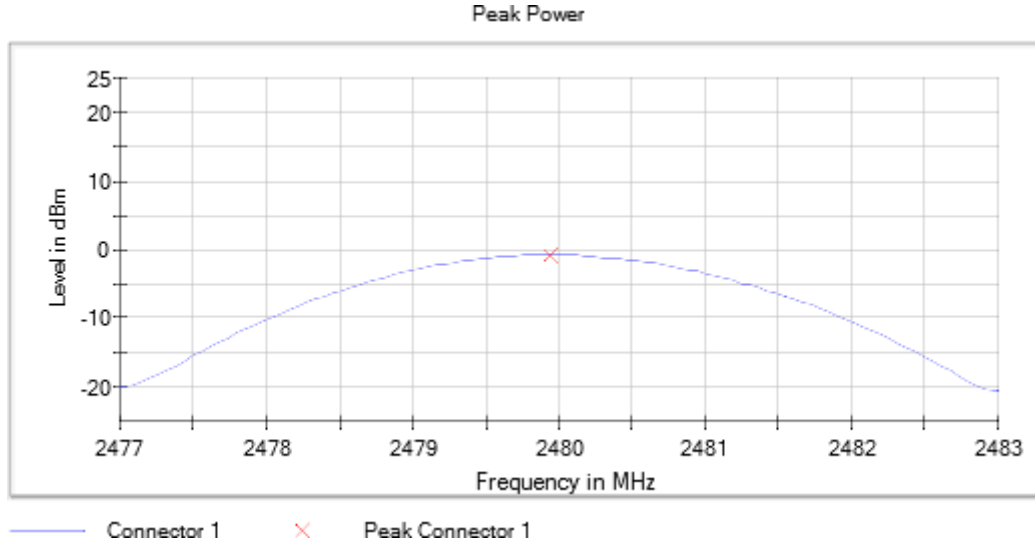
Frequency MHz = 2441.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
 Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5), Number of Transmission Chains = 1, Active Port = 1

Images:



Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
 Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5), Number of Transmission Chains = 1, Active Port = 1

Images:



FCC 15.247 (d) Band-edge emissions compliance (Transmitter)

Limits

In any 100 kHz bandwidths outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Results

Radiated measurements were used to show compliance with the limits in the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Modulation: BT (GFSK 1-DH5)

Verdict

Pass

Modulation: BT (Pi/4 DQPSK 2-DH5)

Verdict

Pass

Modulation: BT (8DPSK 3-DH5)

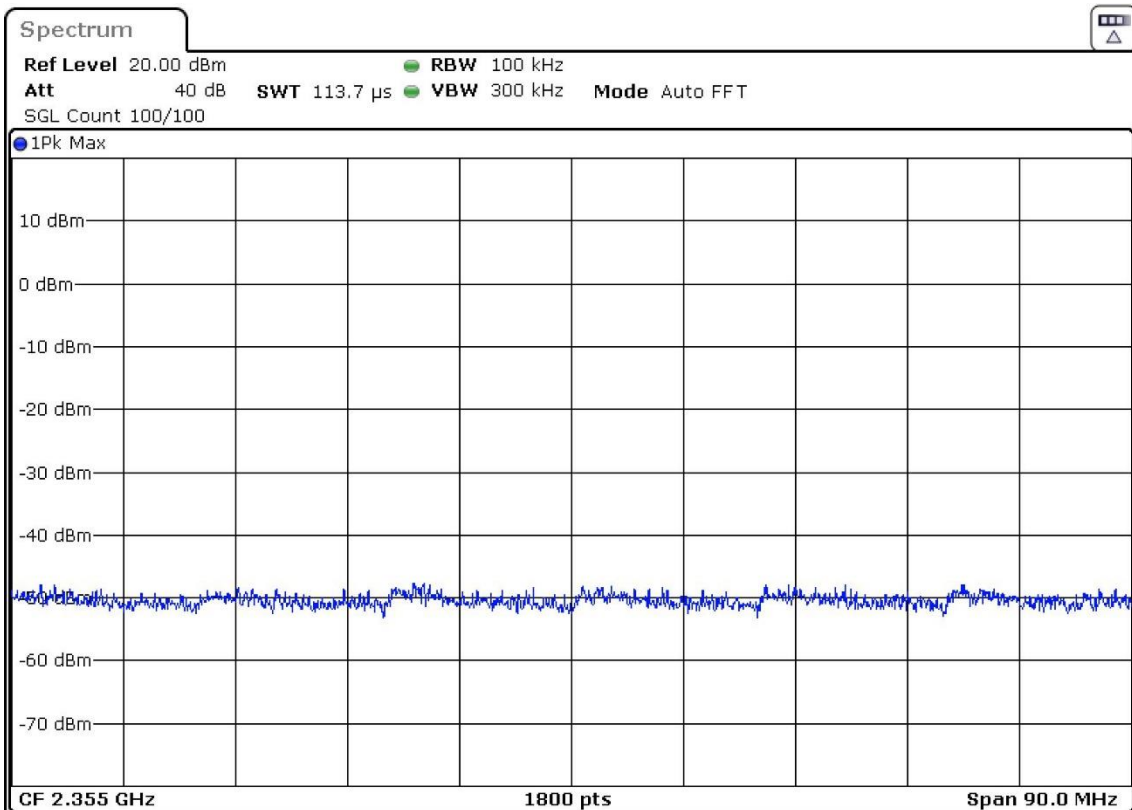
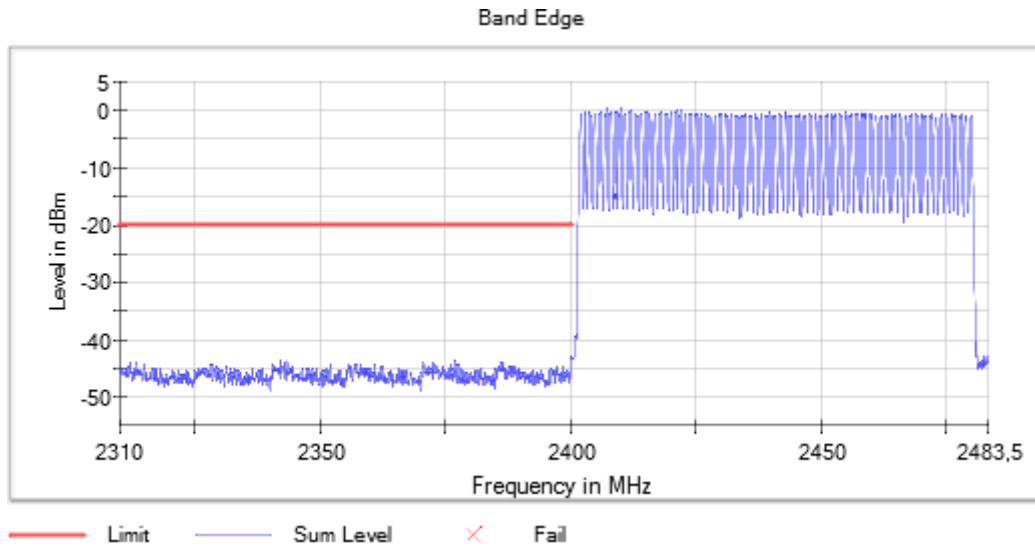
Verdict

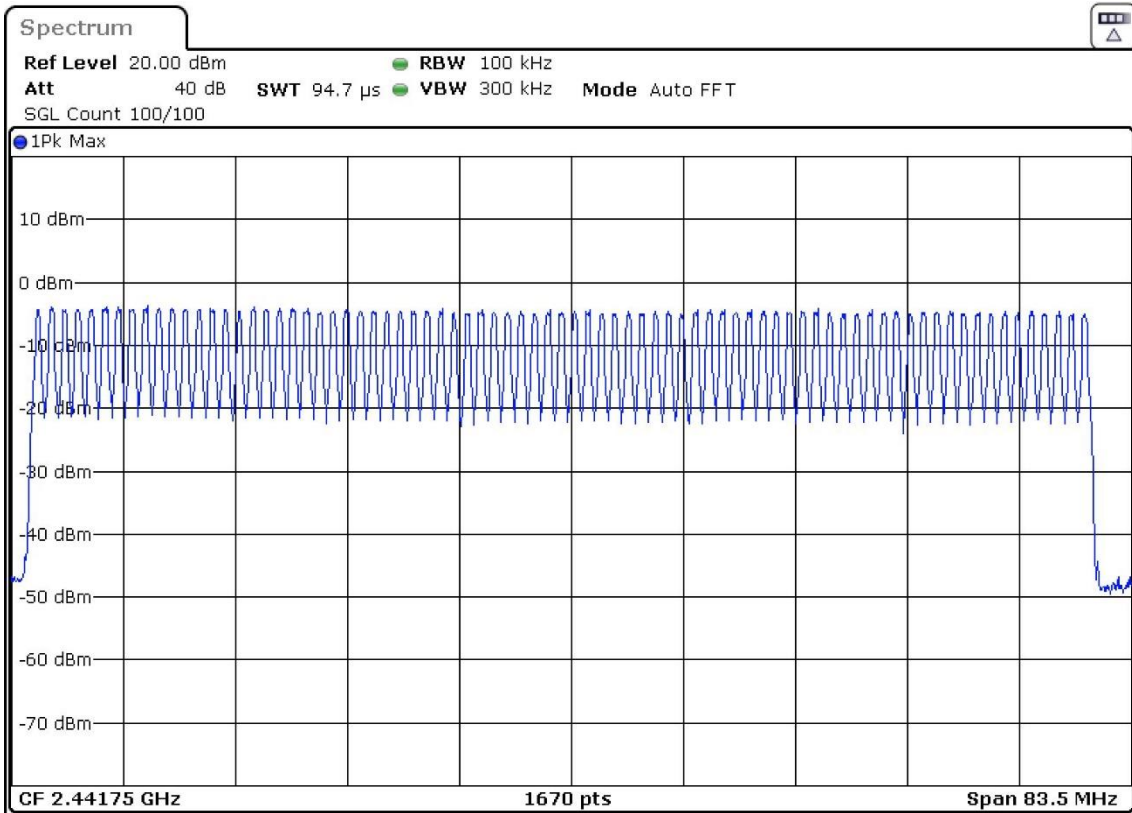
Pass

Attachments

Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2402.00, Hopping Mode: ON, Modulation: BT (GFSK 1-DH5), Number of Transmission Chains = 1

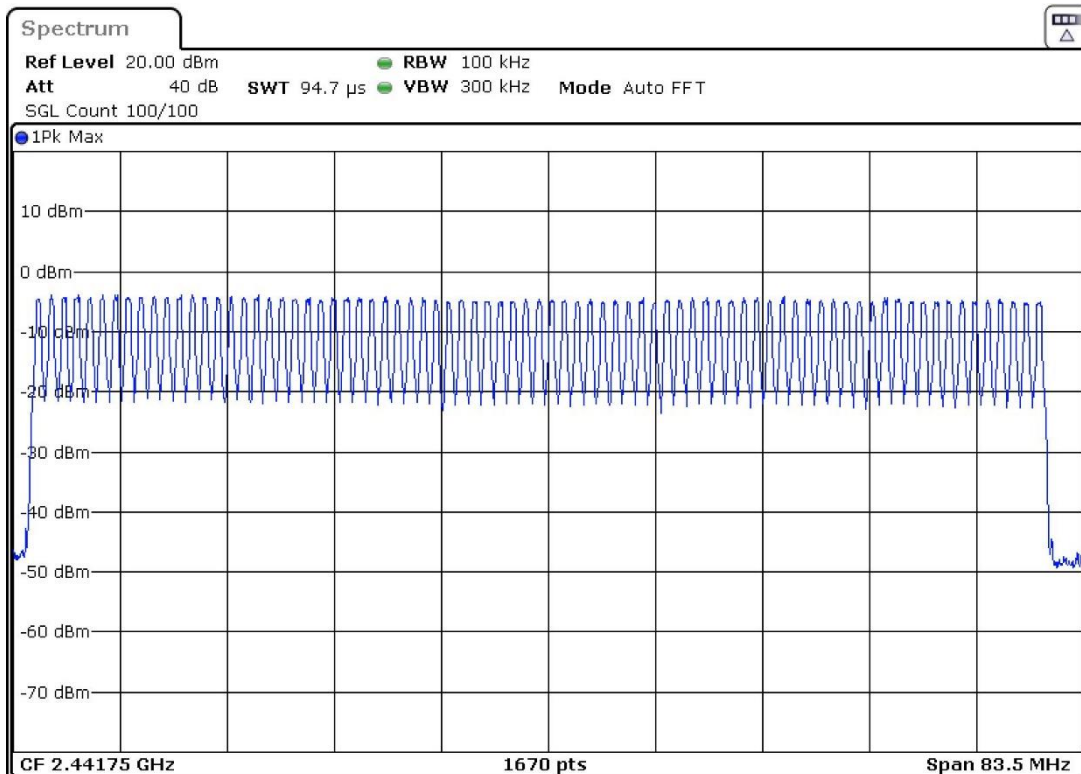
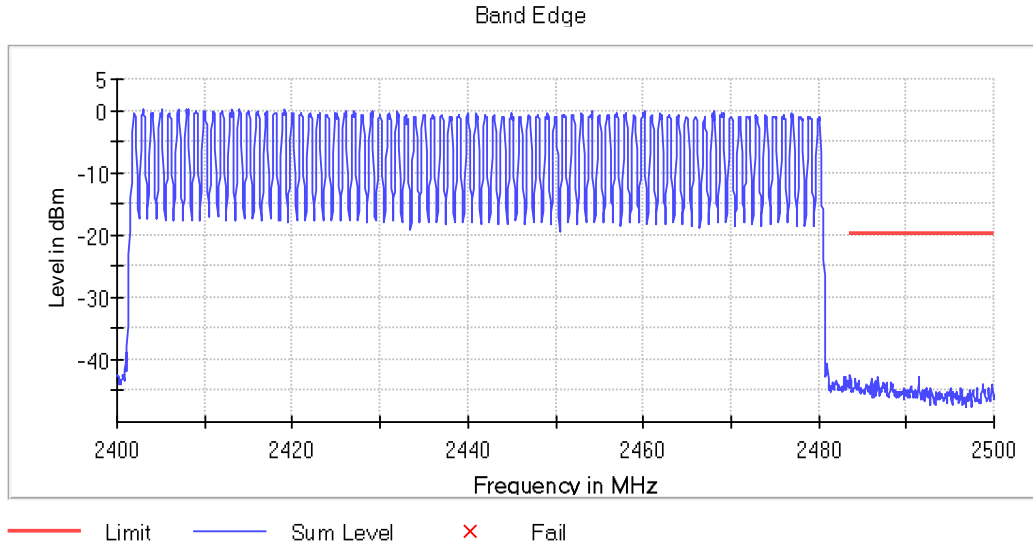
Plots:

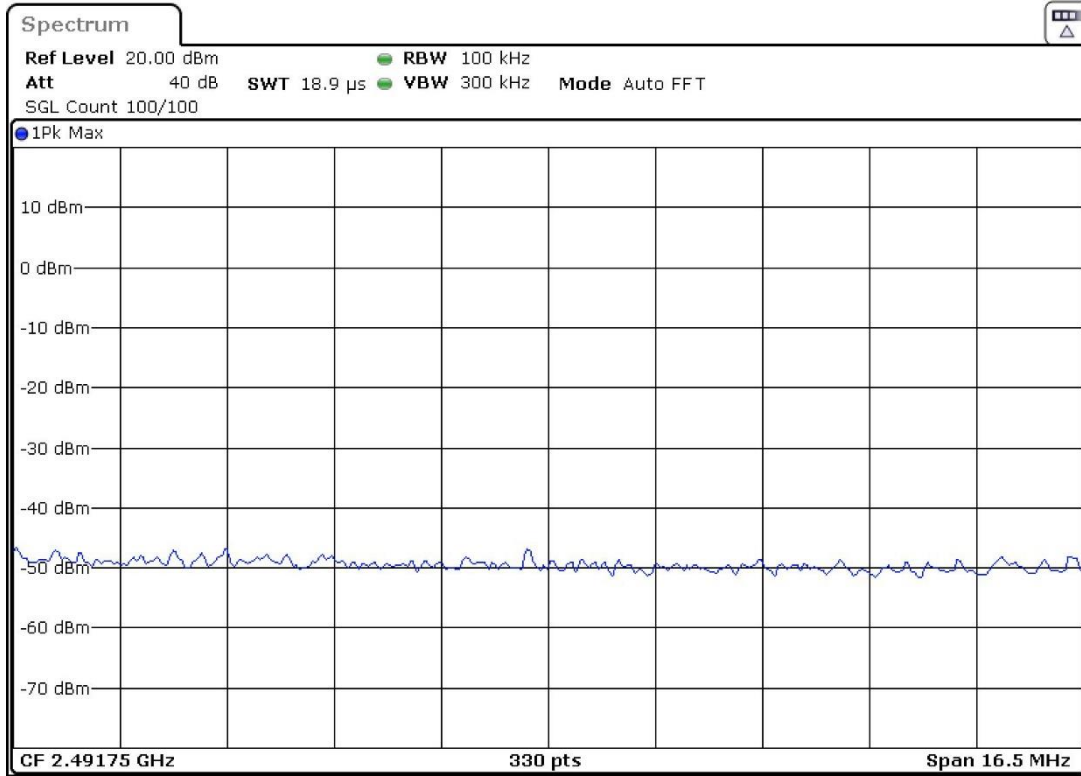




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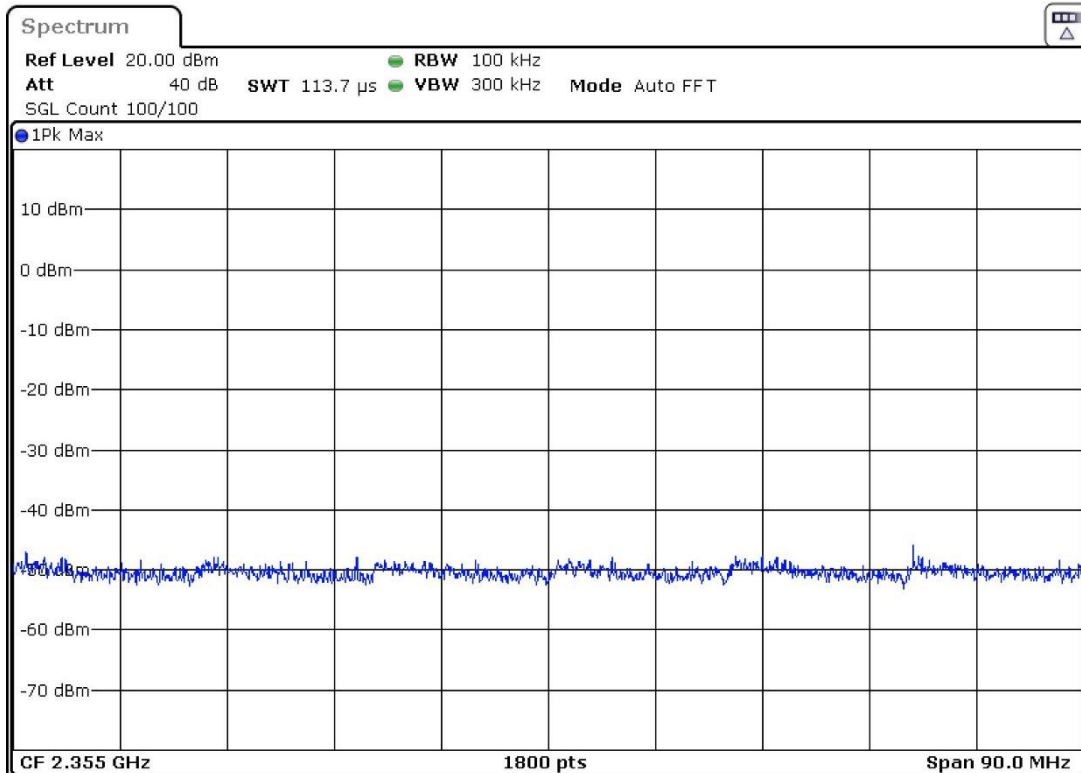
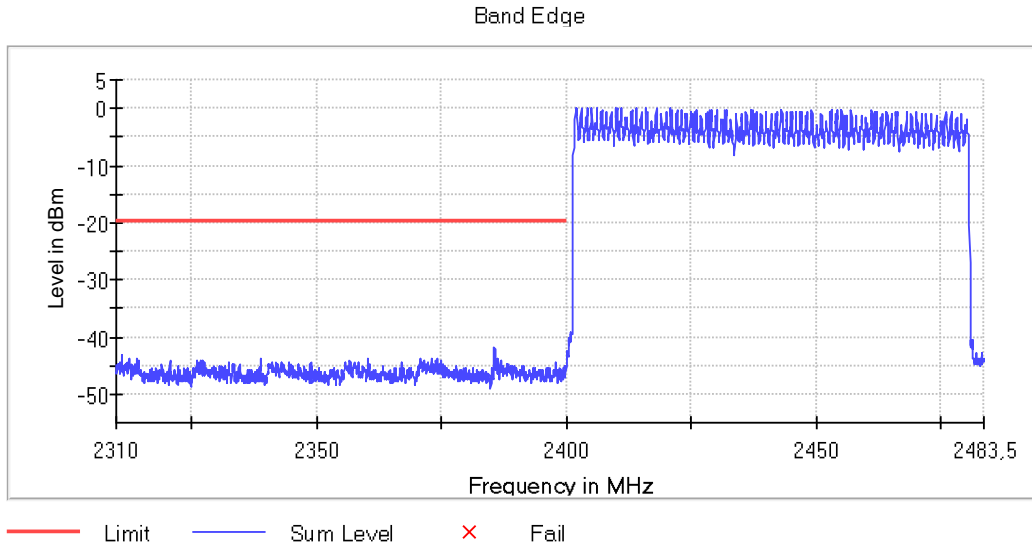
Plots:

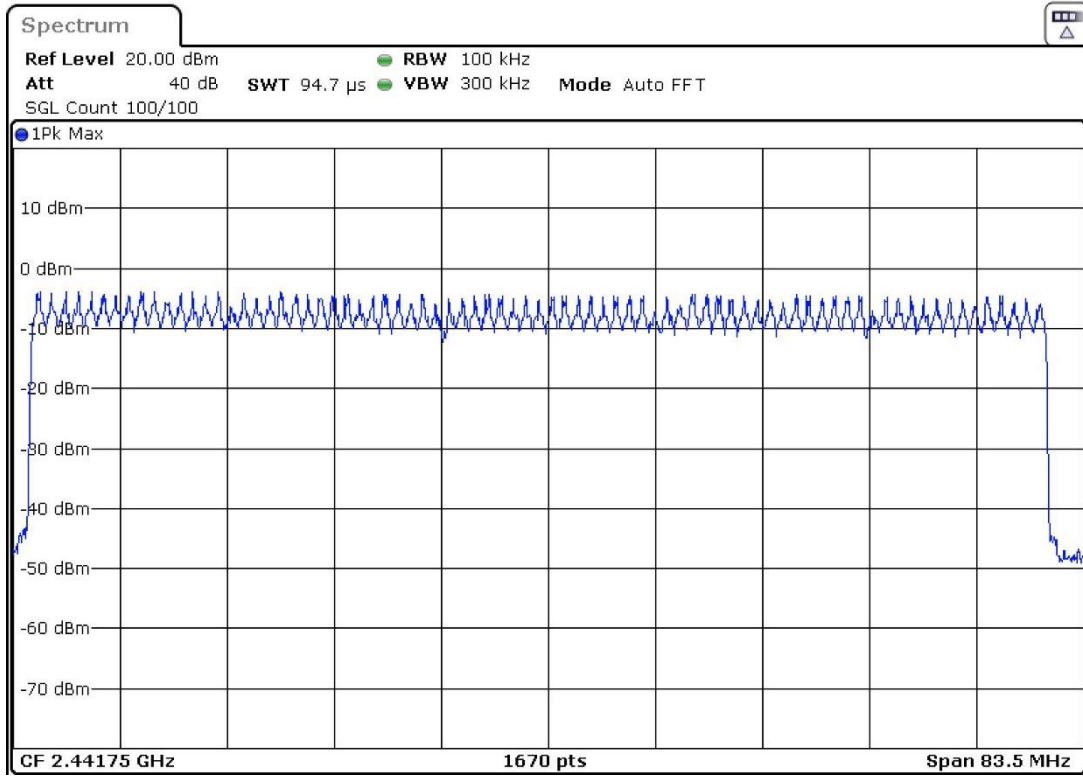




Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2402.00, Hopping Mode: ON, Modulation: BT (Pi/4 DQPSK 2-DH5), Number of Transmission Chains = 1

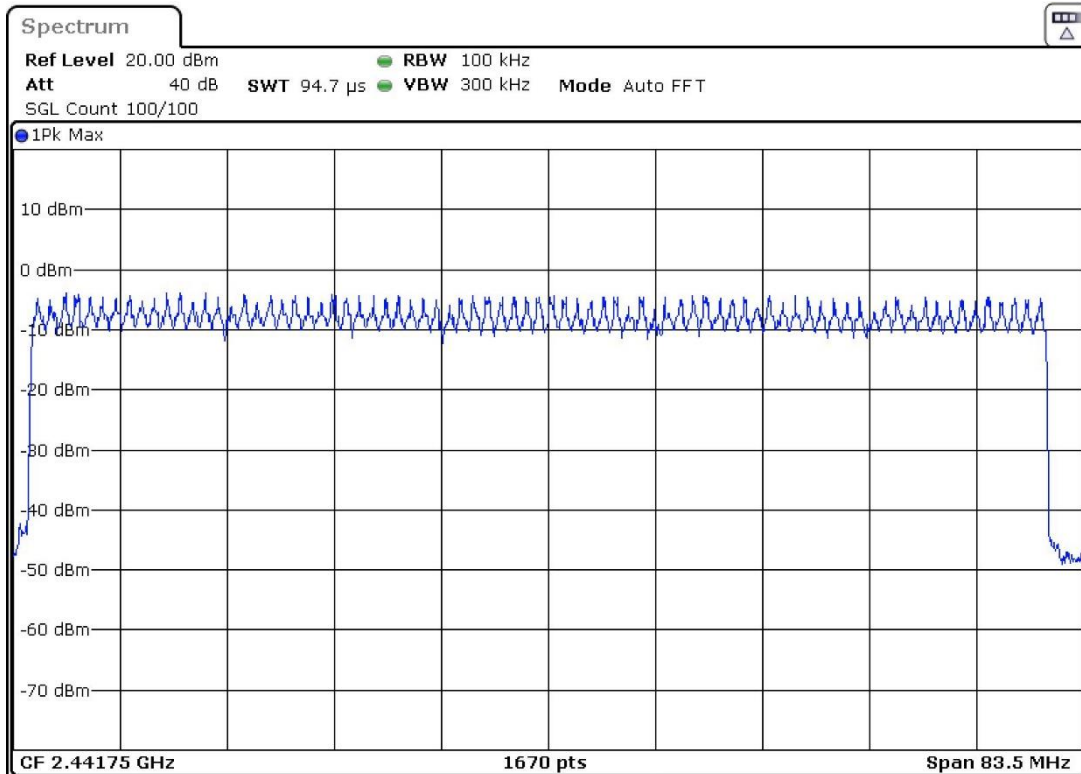
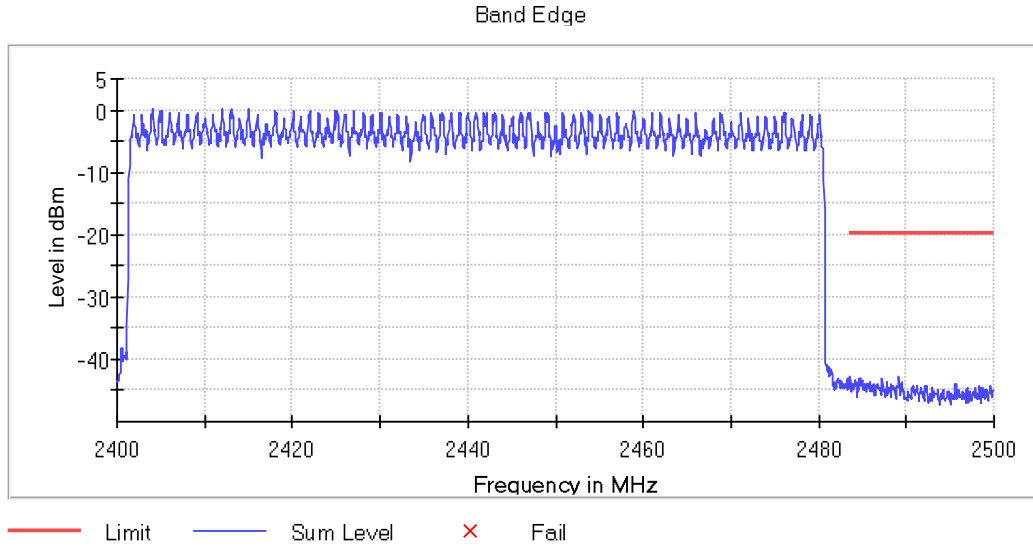
Plots:

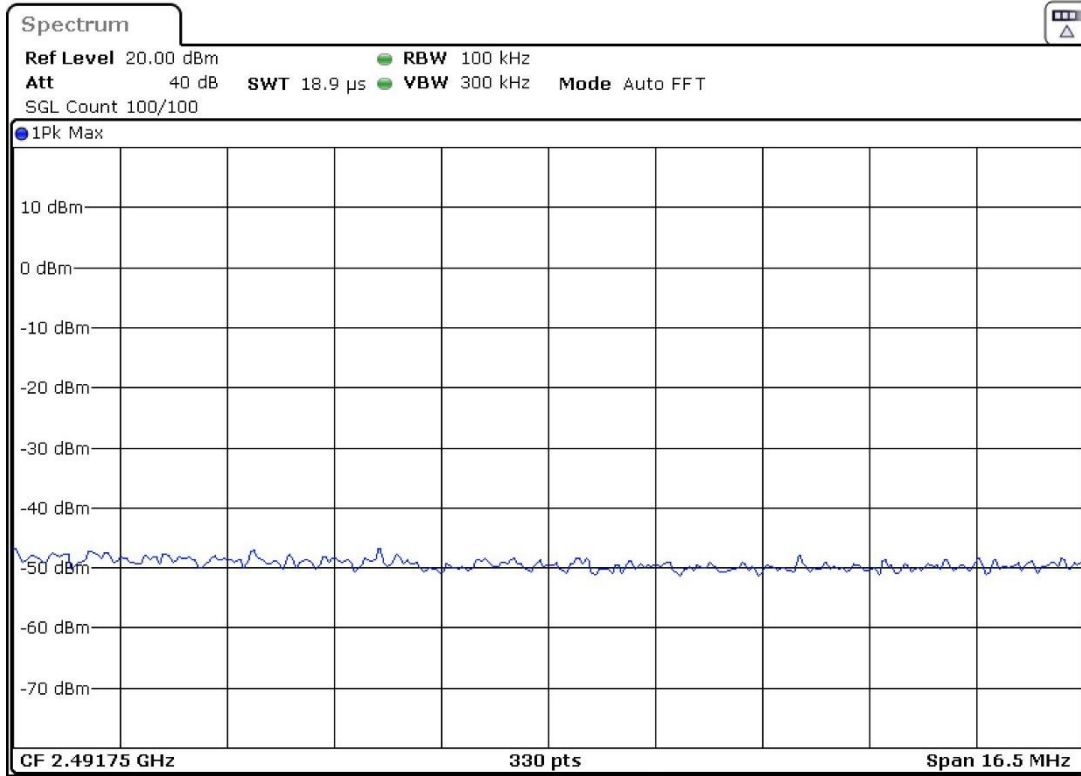




Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2480.00, Hopping Mode: ON, Modulation: BT (Pi/4 DQPSK 2-DH5), Number of Transmission Chains = 1

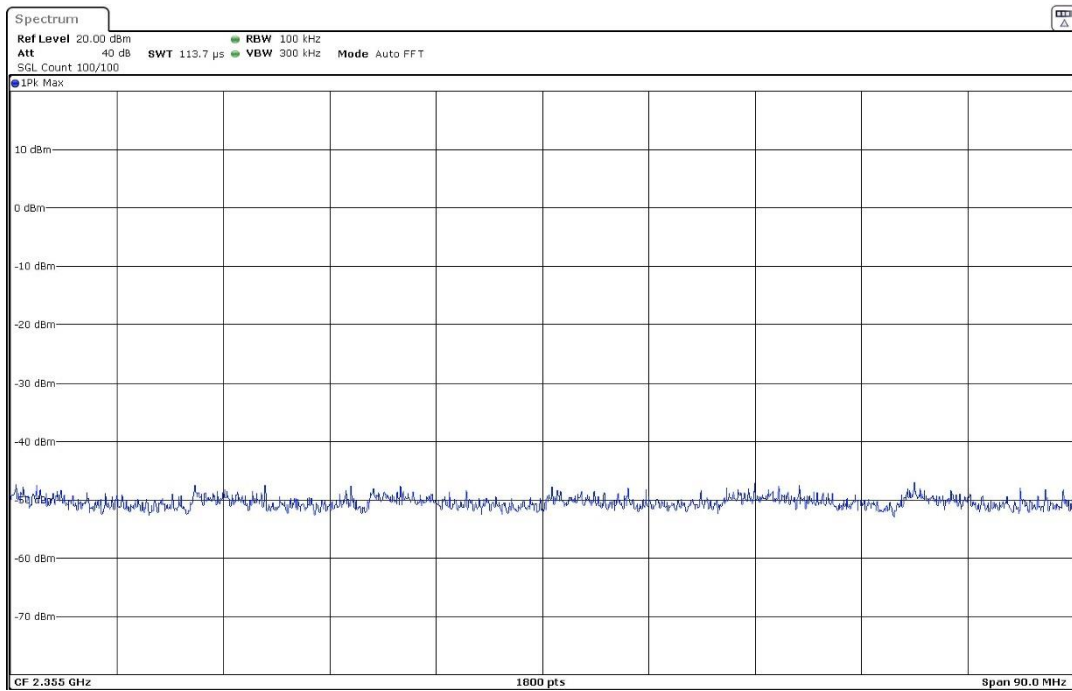
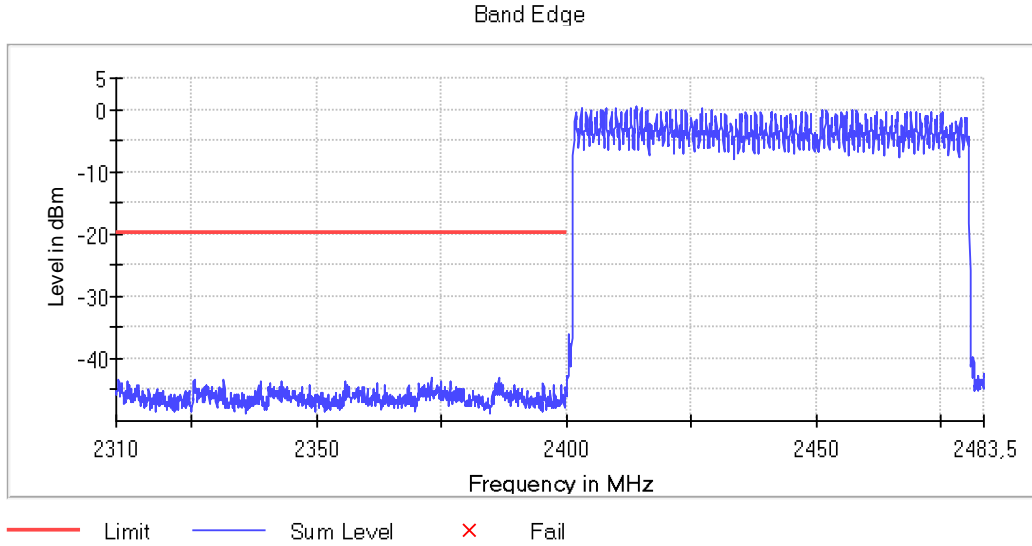
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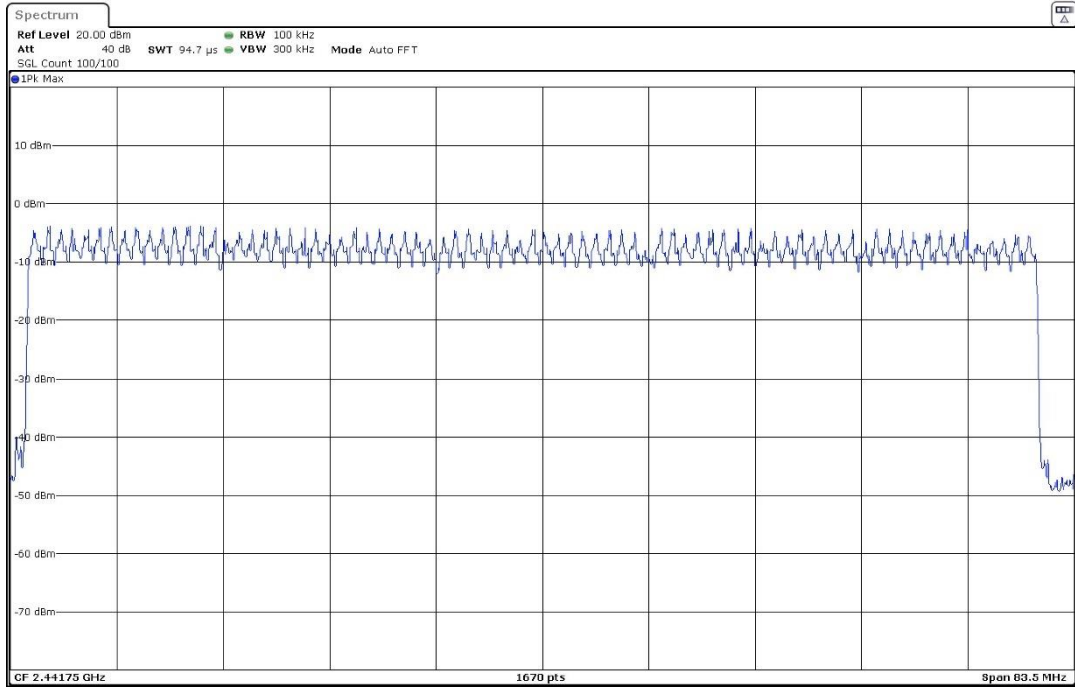




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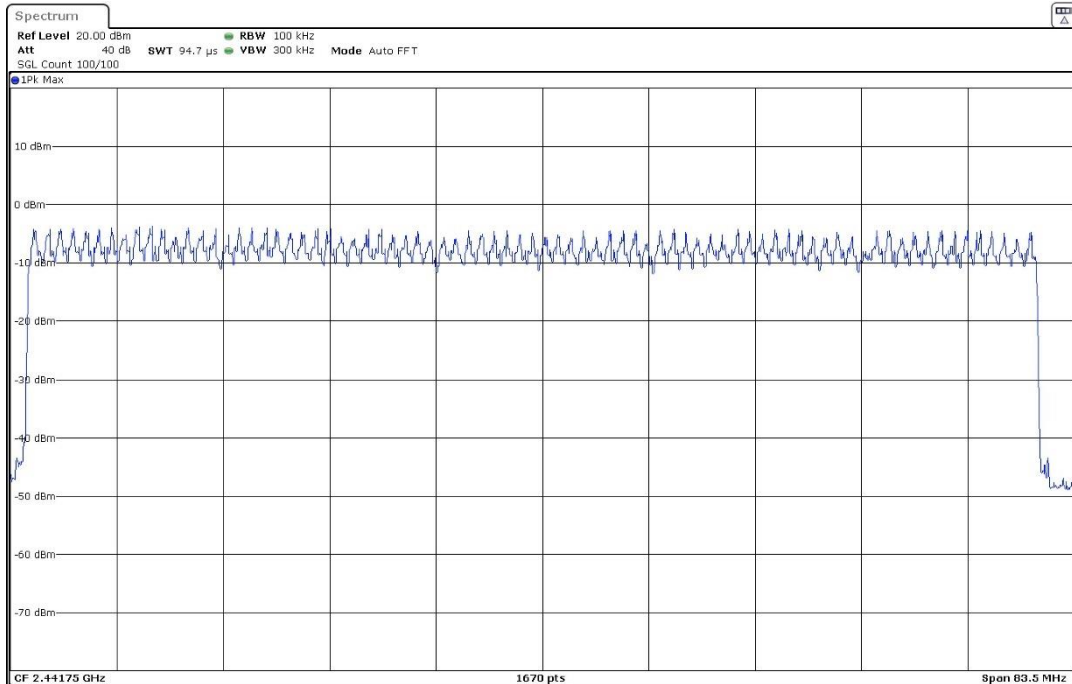
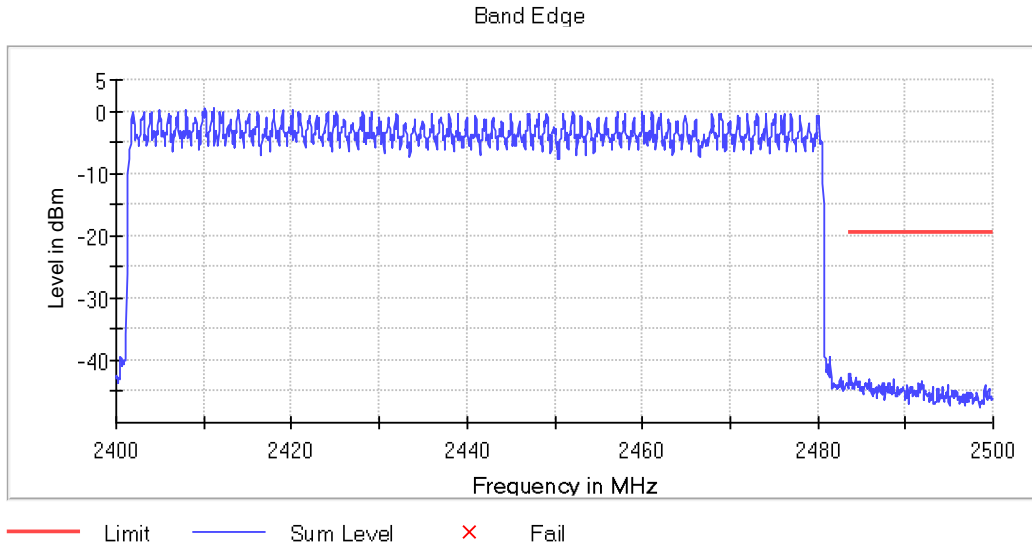
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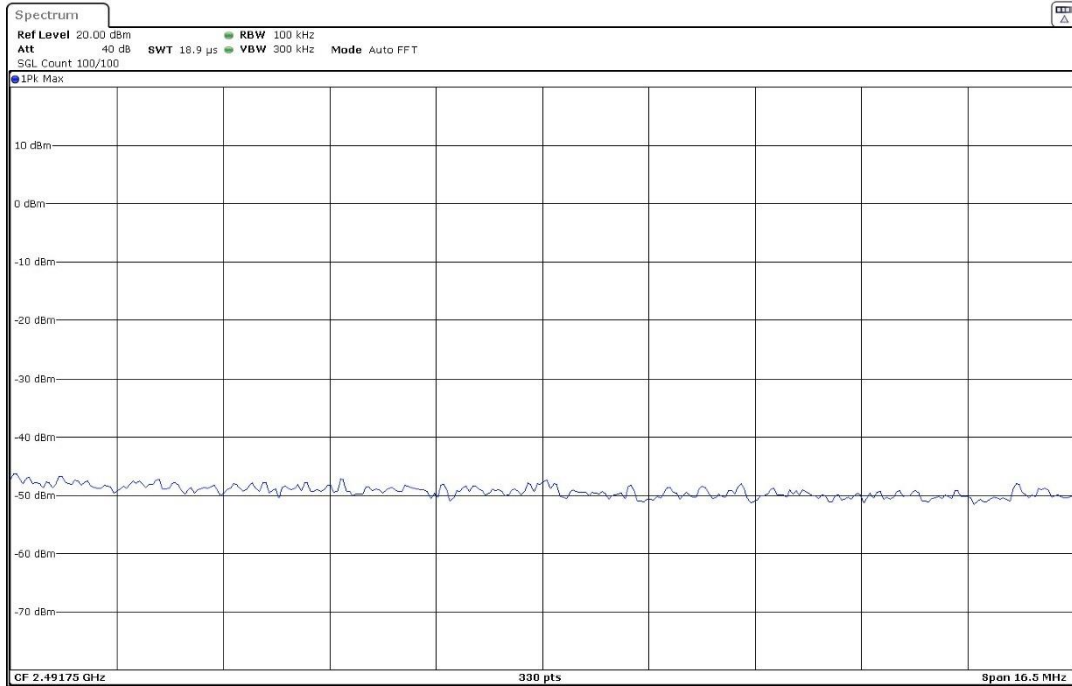




Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2480.00, Hopping Mode: ON, Modulation: BT (8DPSK 3-DH5), Number of Transmission Chains = 1

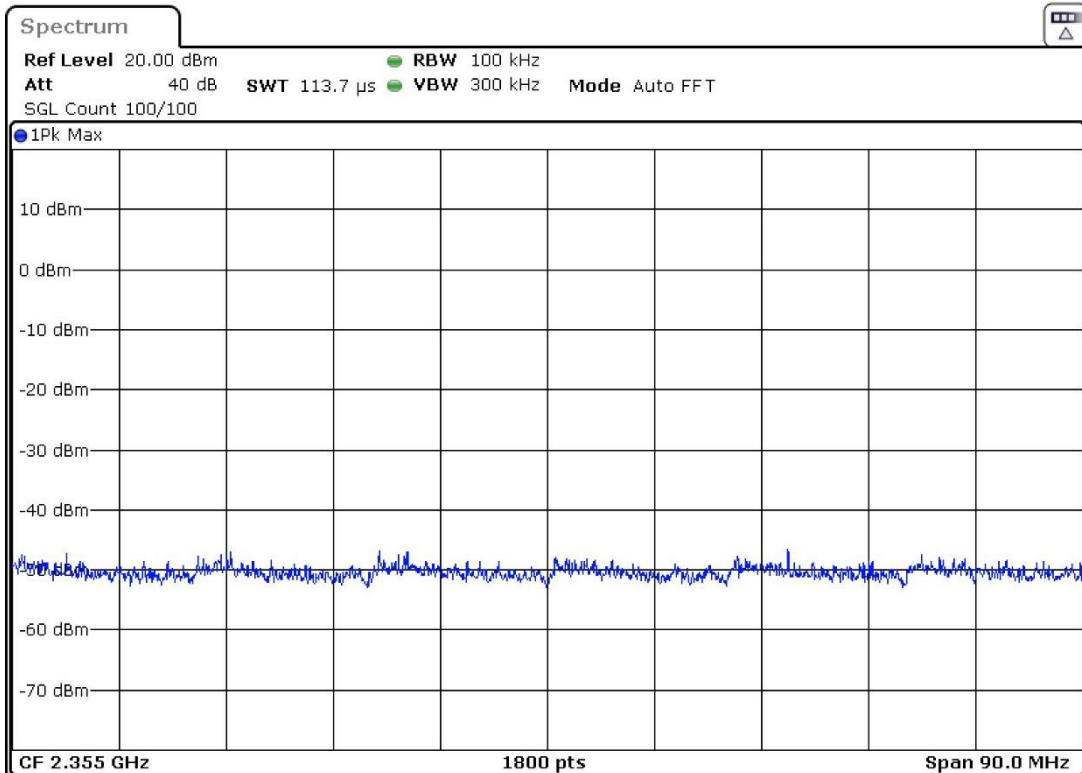
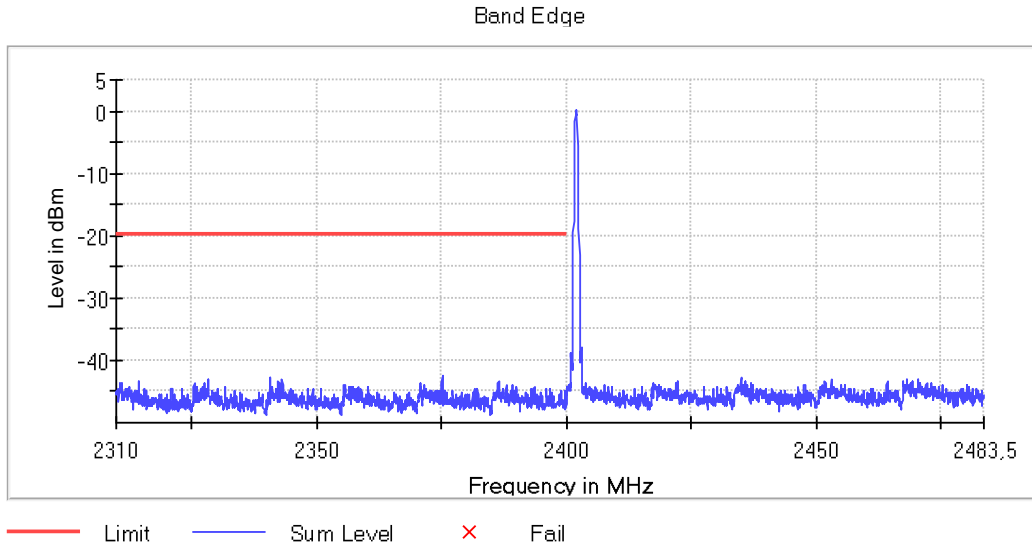
Plots:

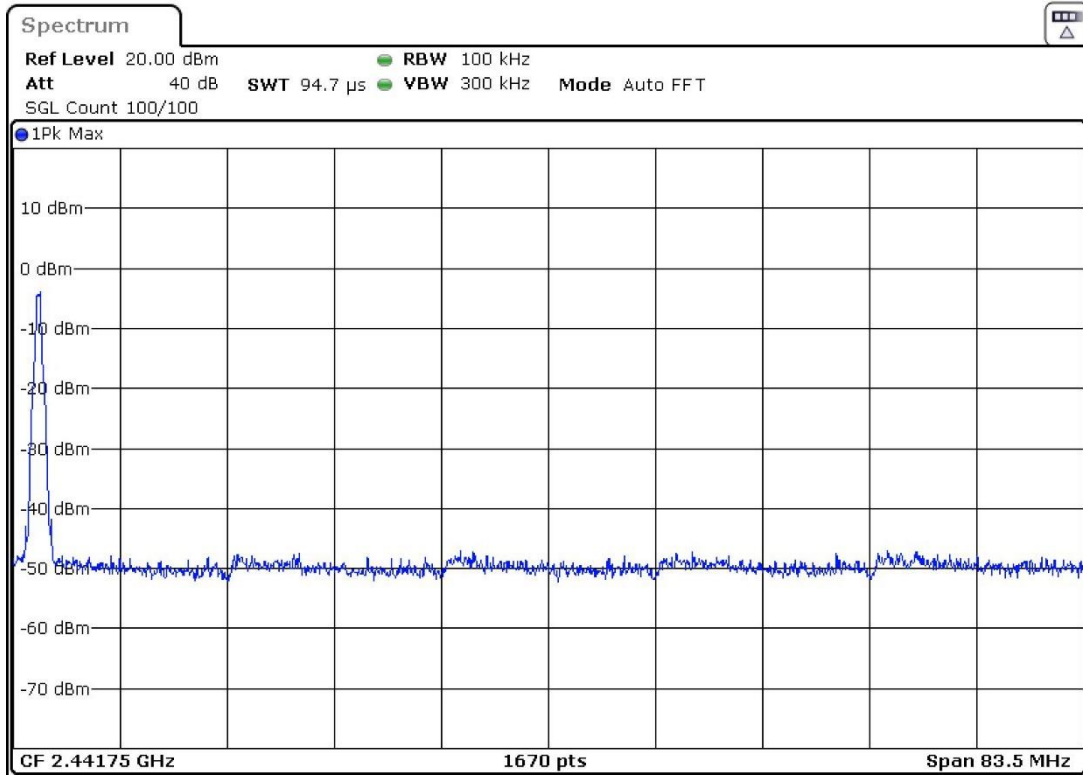




Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2402.00, Hopping Mode: OFF, Modulation: BT (GFSK 1-DH5), Number of Transmission Chains = 1

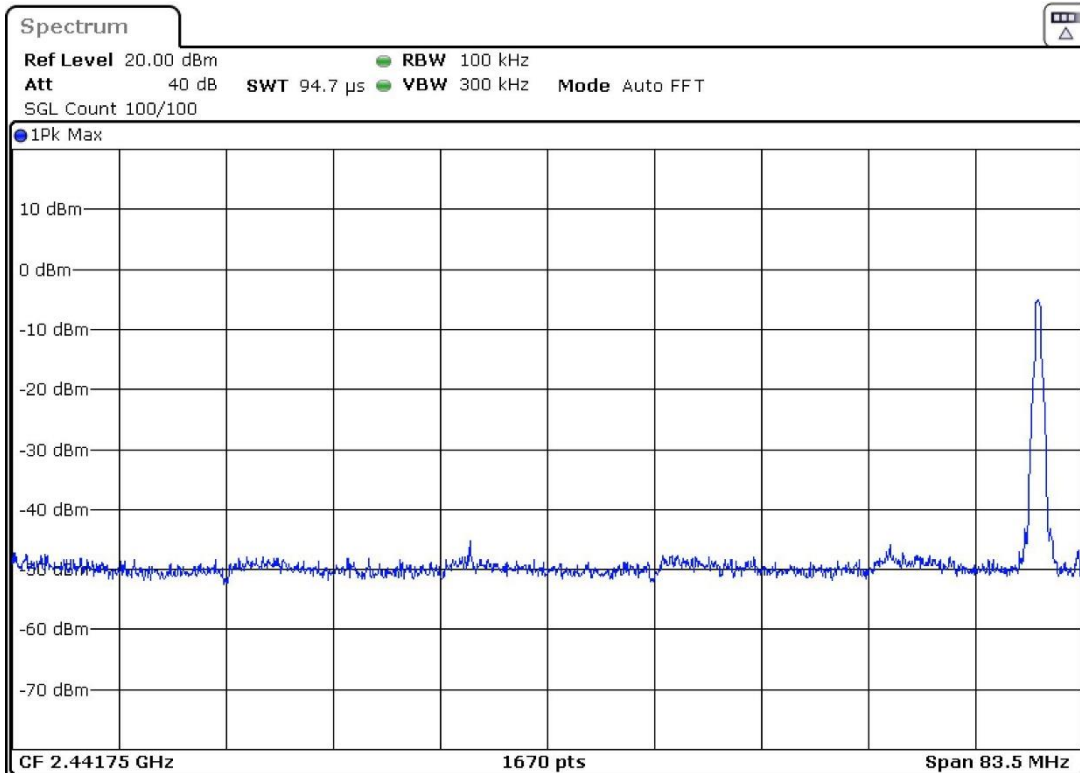
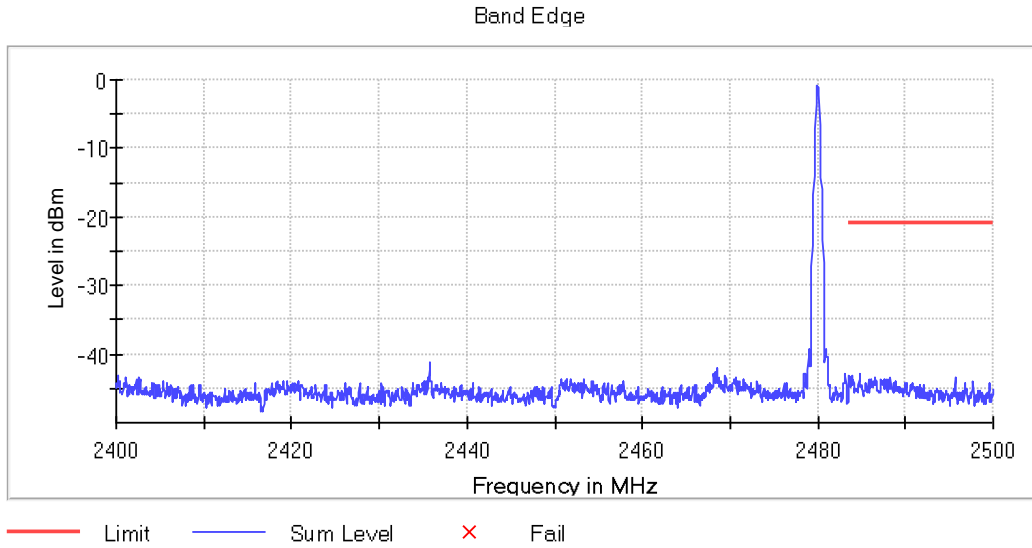
Plots:

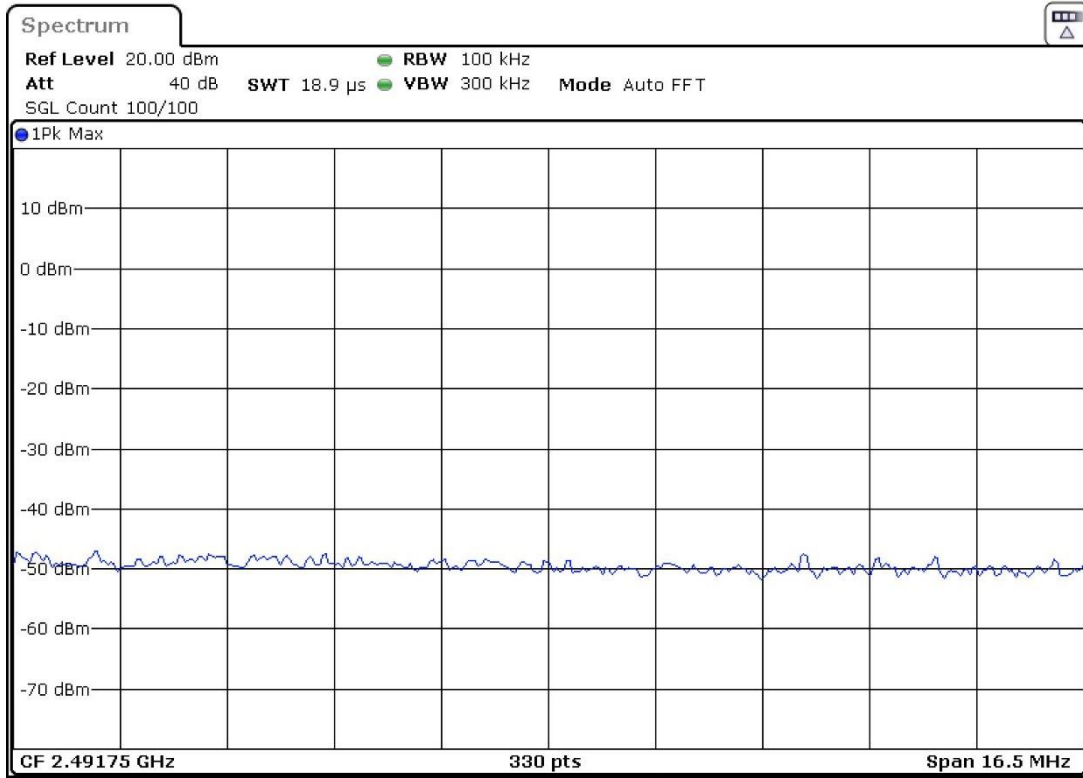




Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2480.00, Hopping Mode: OFF, Modulation: BT (GFSK 1-DH5), Number of Transmission Chains = 1

Plots:





Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2402.00, Hopping Mode: OFF, Modulation: BT (Pi/4 DQPSK 2-DH5), Number of Transmission Chains = 1

Plots:

