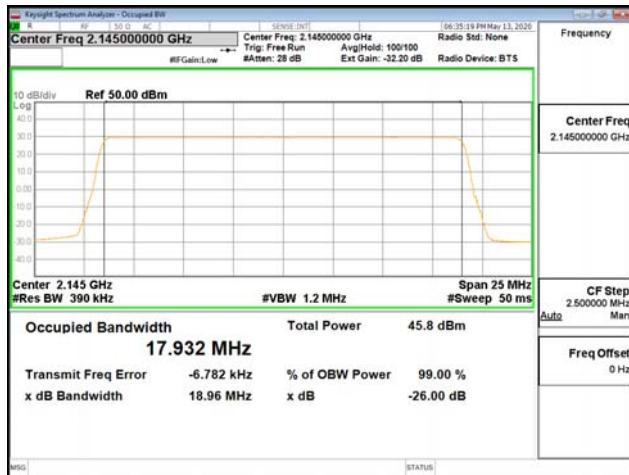
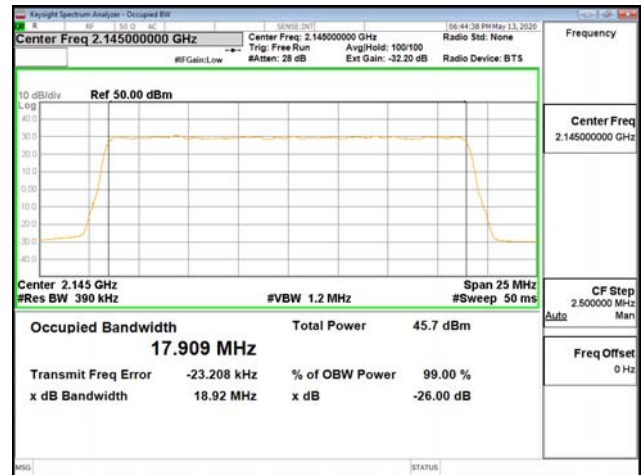


ANT2

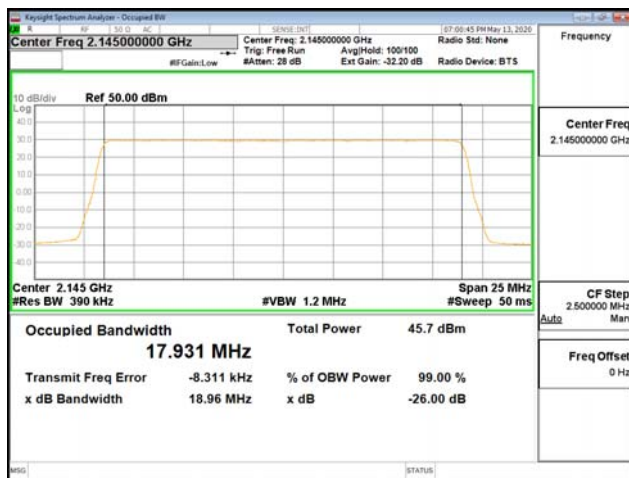
QPSK



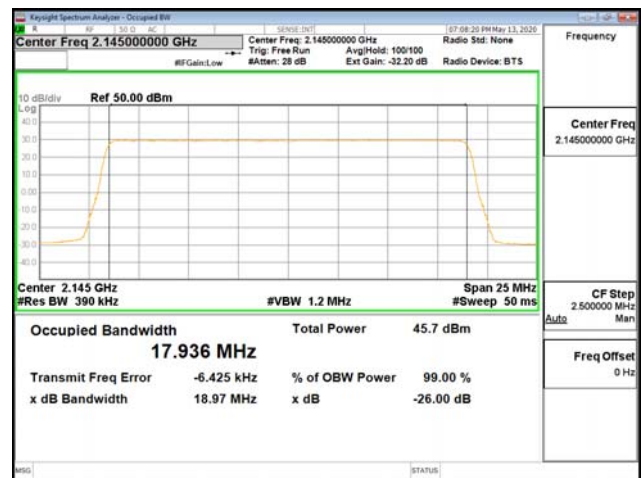
16QAM



64QAM

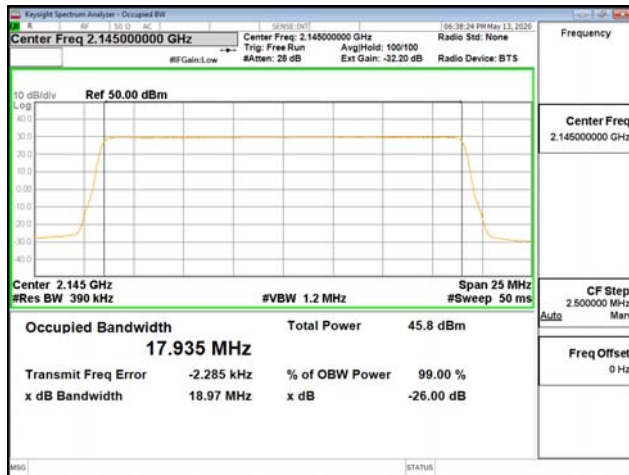


256QAM

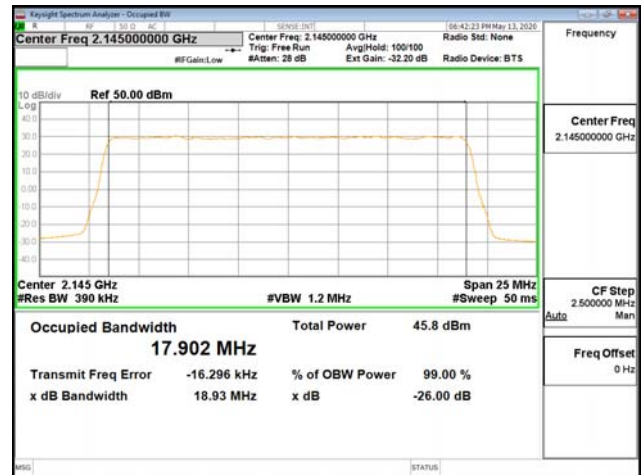


ANT3

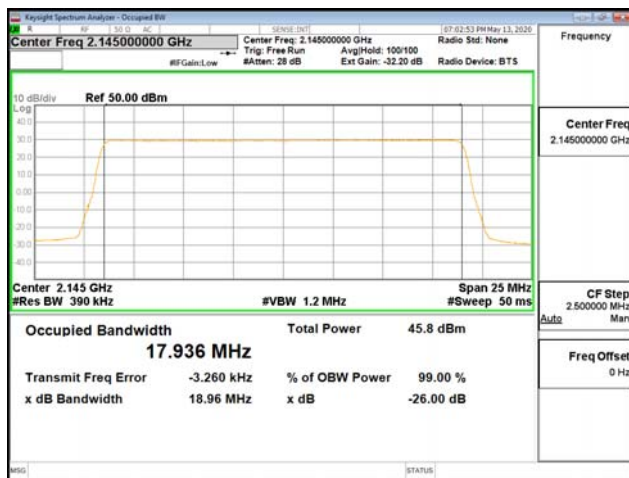
QPSK



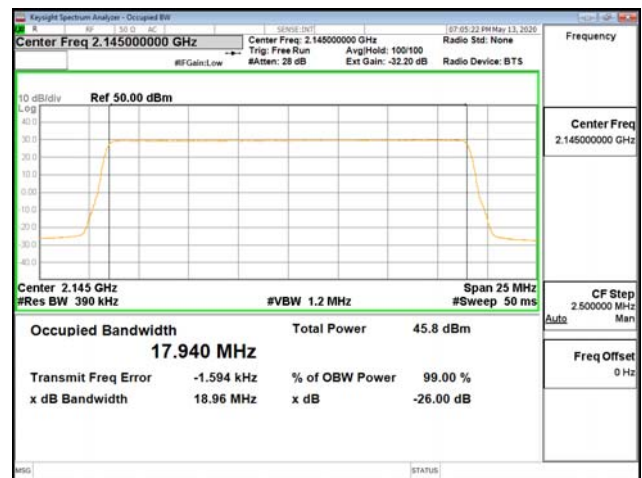
16QAM



64QAM

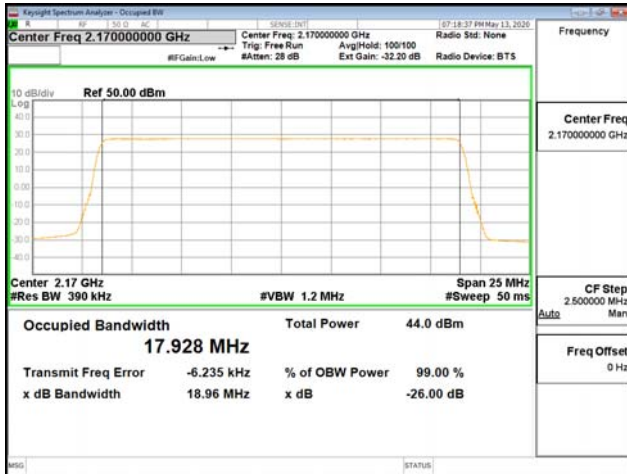


256QAM

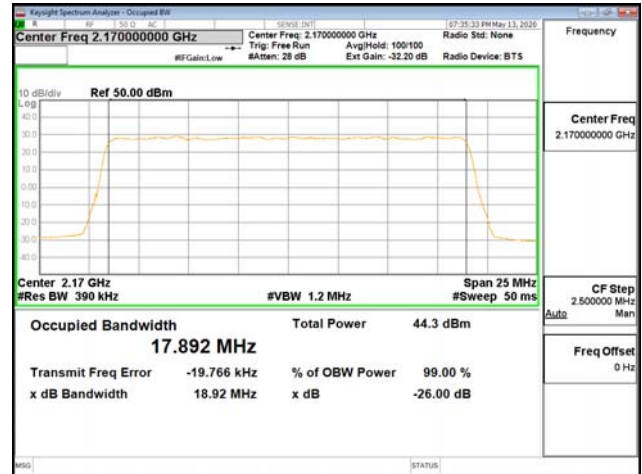


**Band 66, BW 20MHz, Single carrier, Top
ANT0**

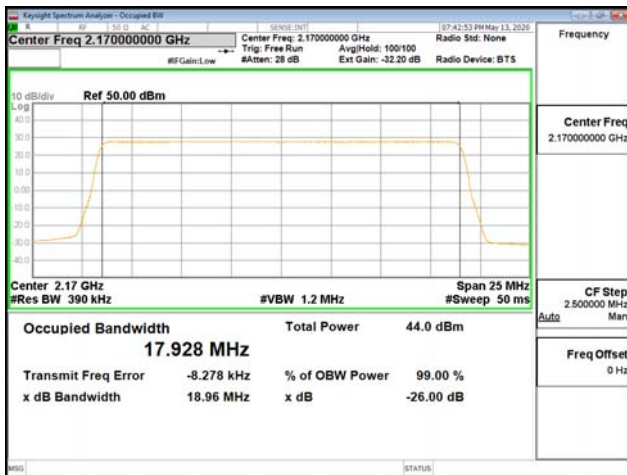
QPSK



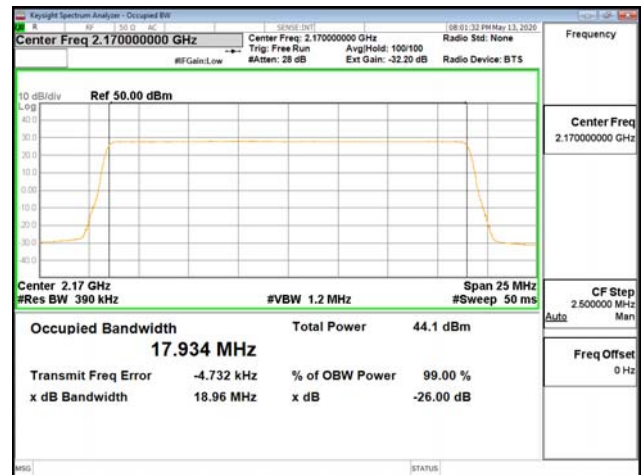
16QAM



64QAM

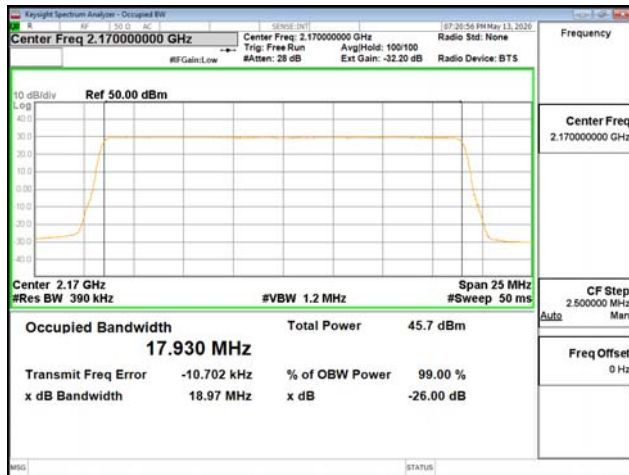


256QAM

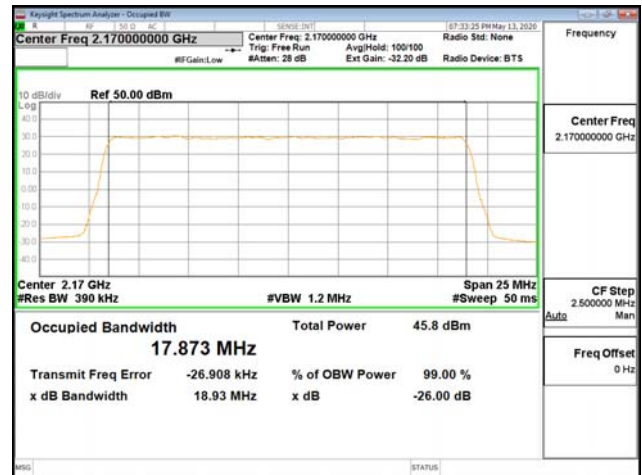


ANT1

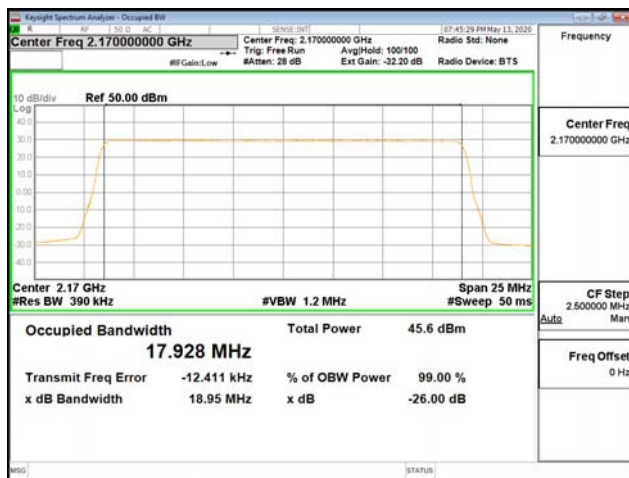
QPSK



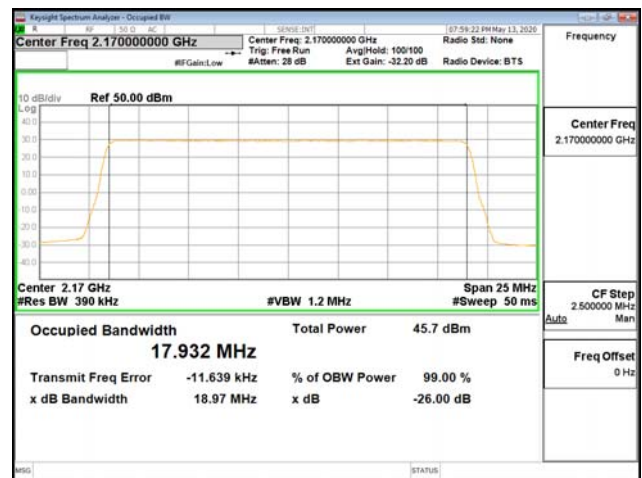
16QAM



64QAM

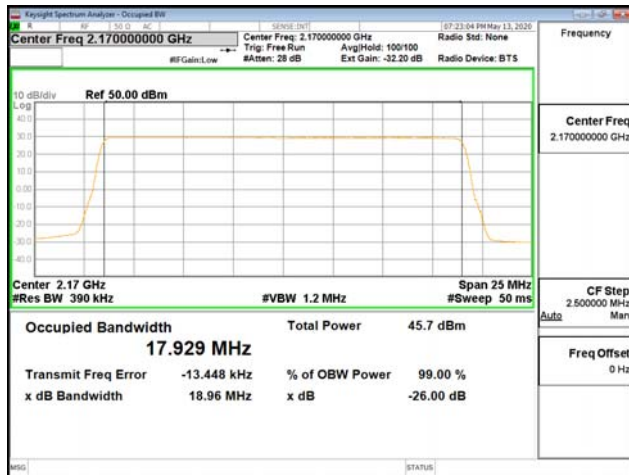


256QAM

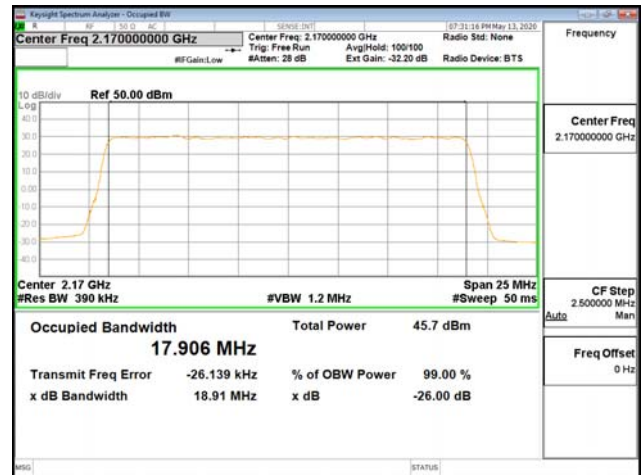


ANT2

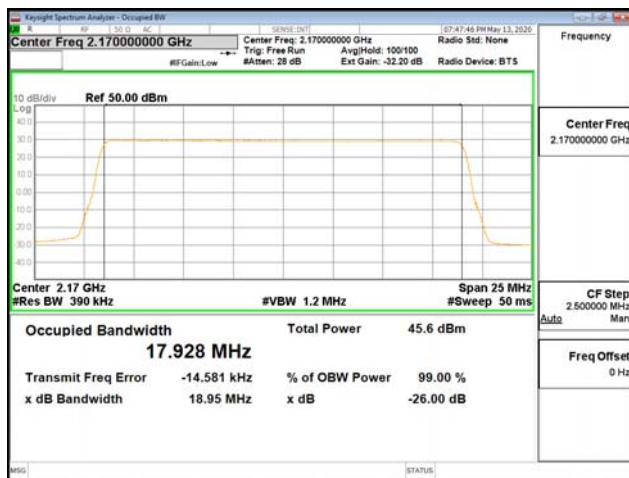
QPSK



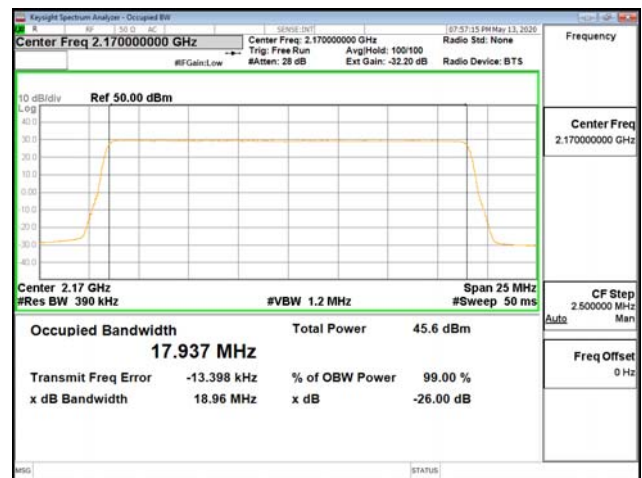
16QAM



64QAM

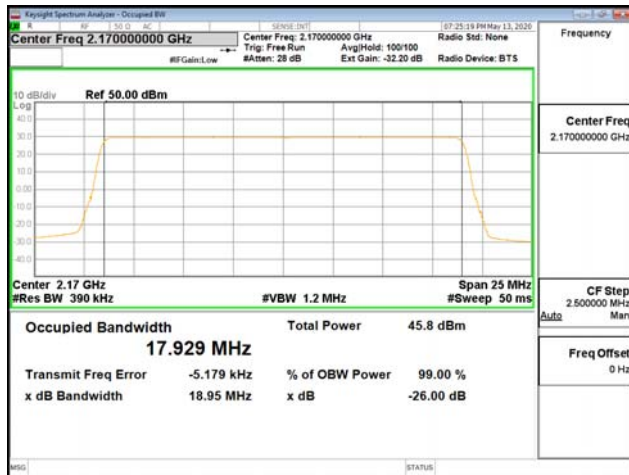


256QAM

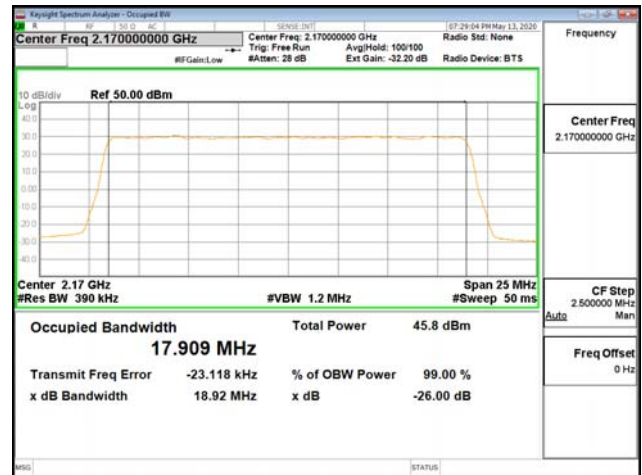


ANT3

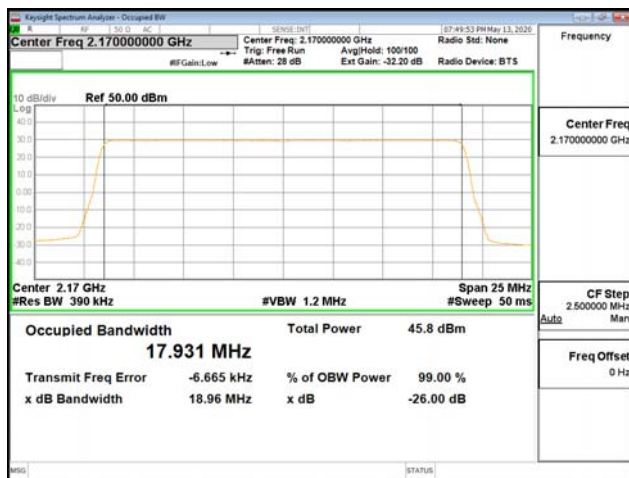
QPSK



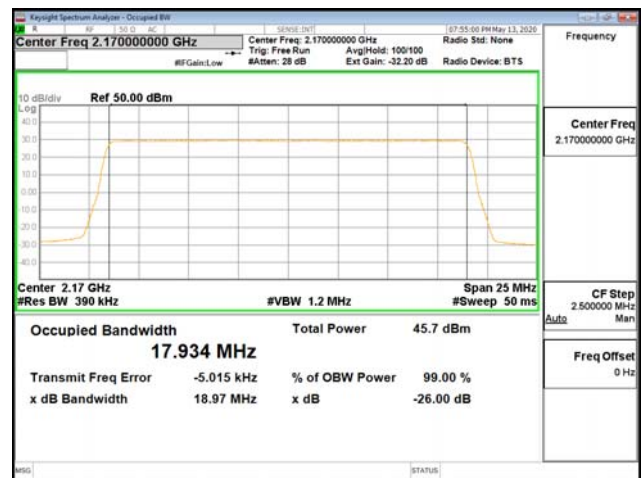
16QAM



64QAM

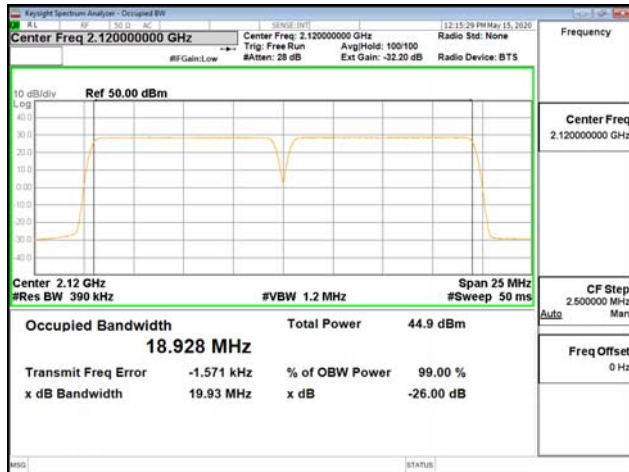


256QAM

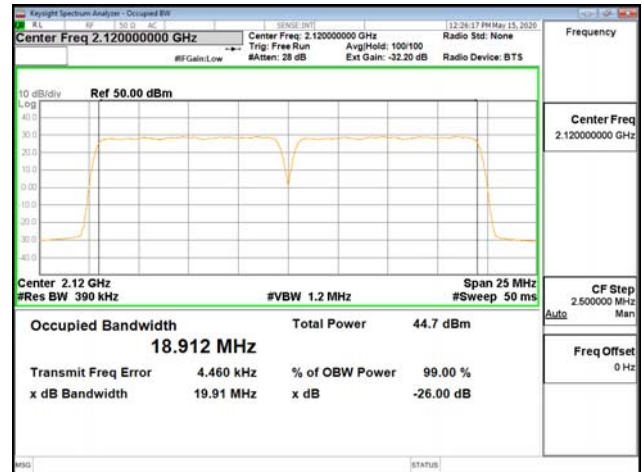


**Band 66, BW 10MHz+10MHz, Multi 2 carrier, Bottom
ANT0**

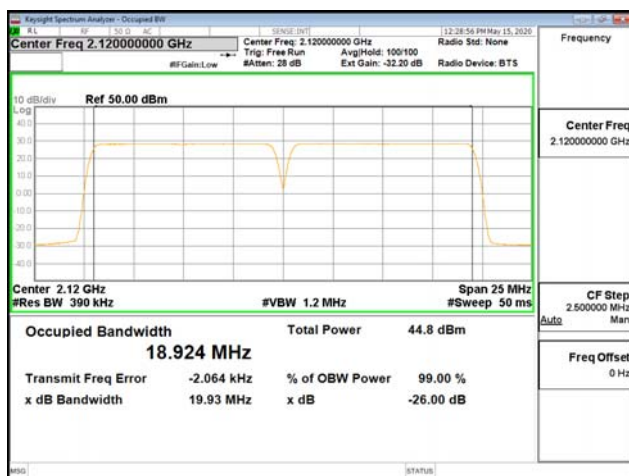
QPSK



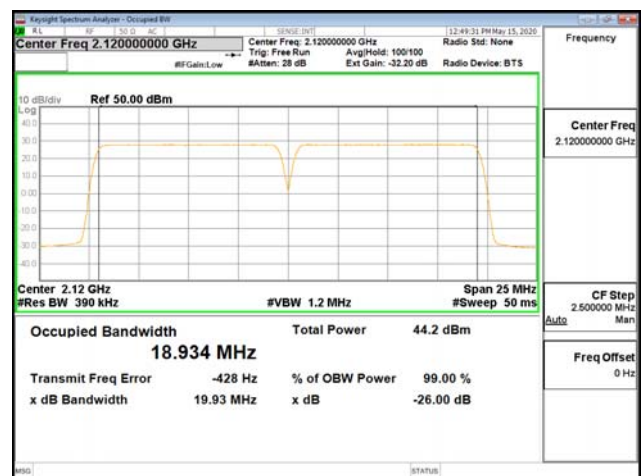
16QAM



64QAM

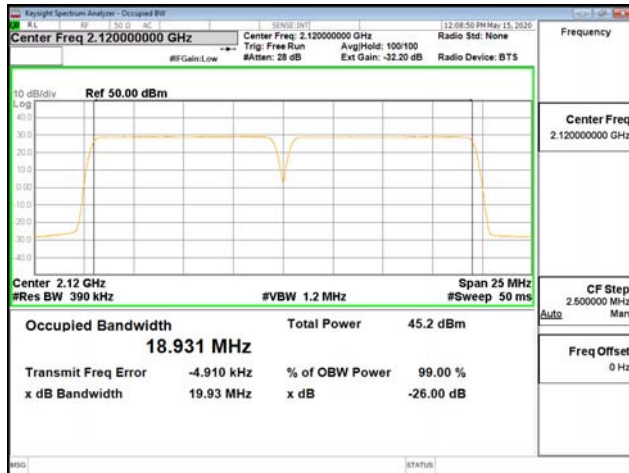


256QAM

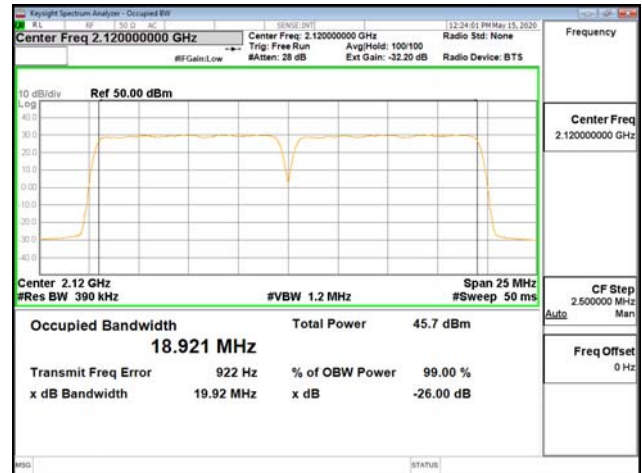


ANT1

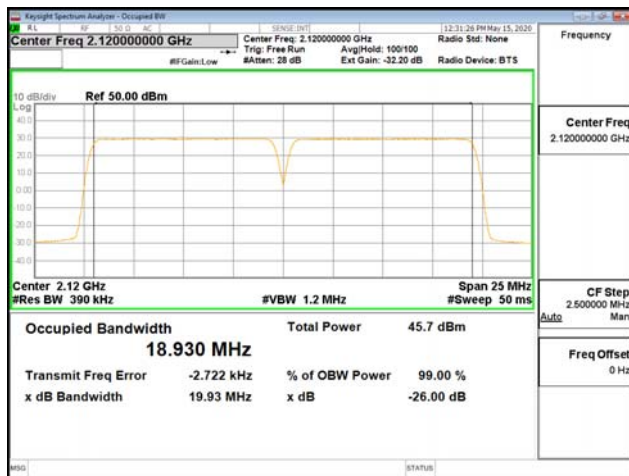
QPSK



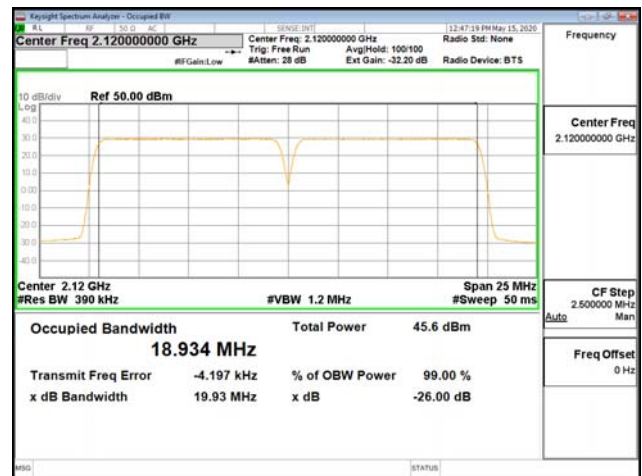
16QAM



64QAM

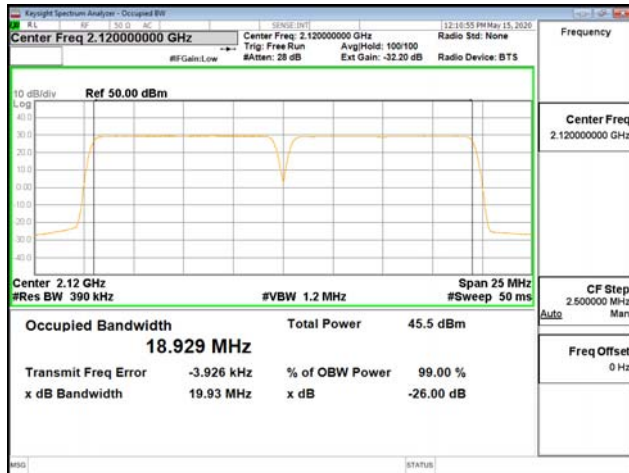


256QAM

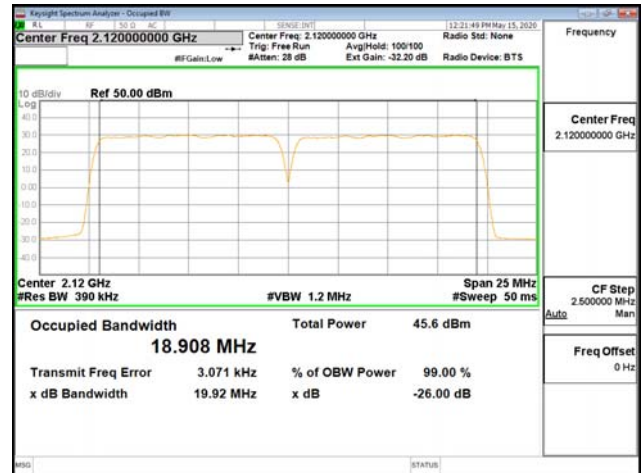


ANT2

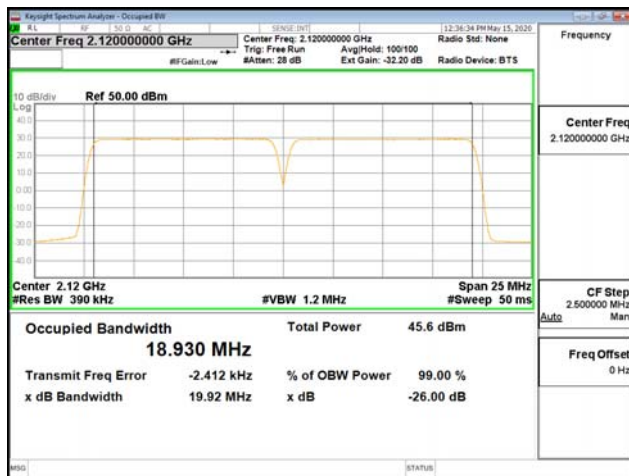
QPSK



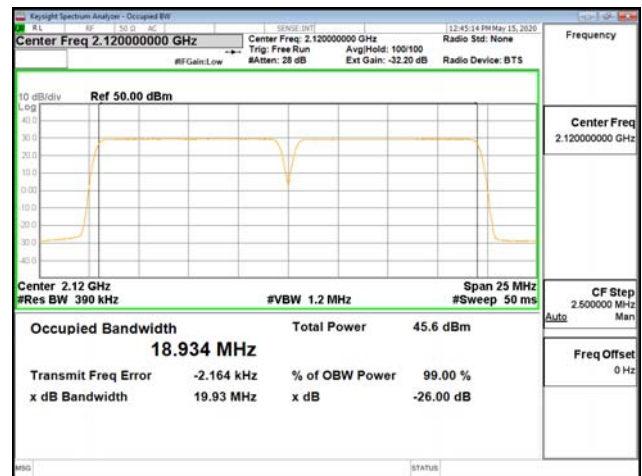
16QAM



64QAM

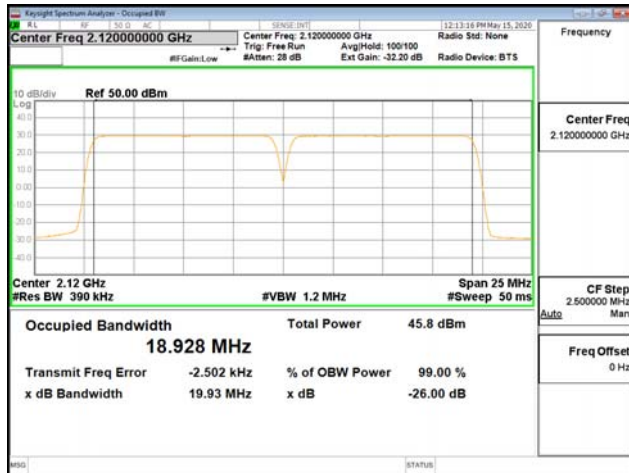


256QAM

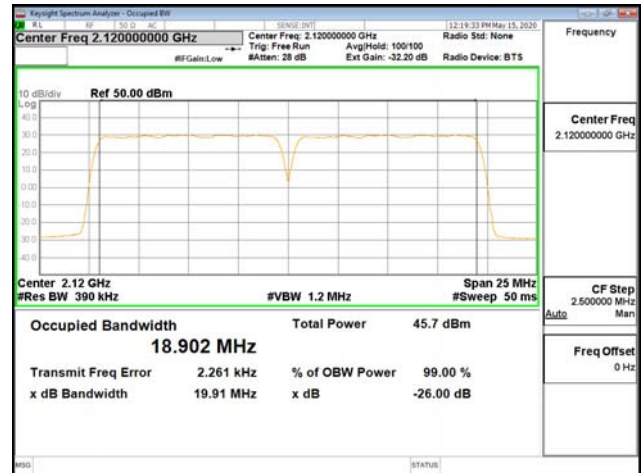


ANT3

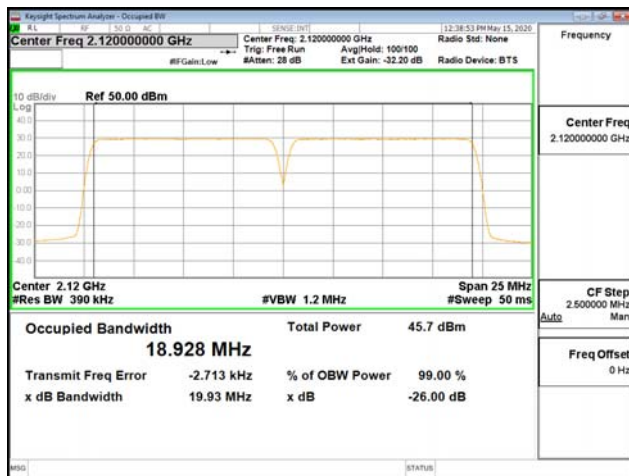
QPSK



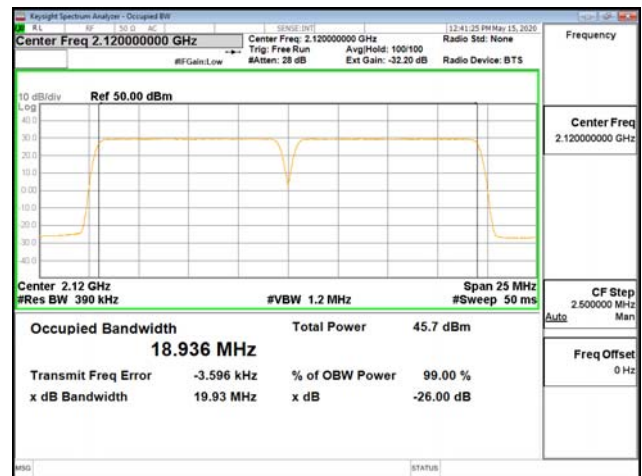
16QAM



64QAM

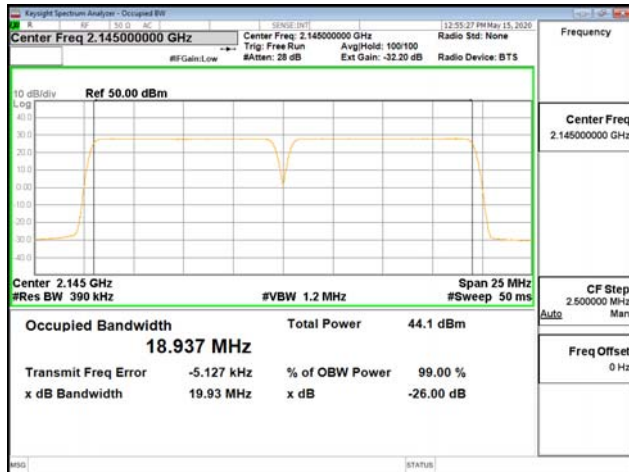


256QAM

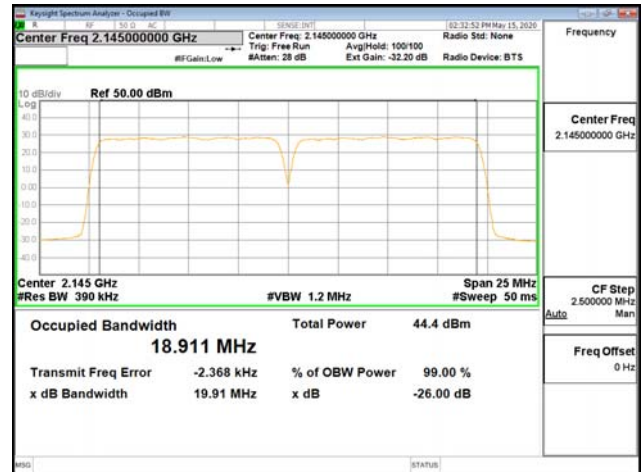


**Band 66, BW 10MHz+10MHz, Multi 2 carrier, Middle
ANT0**

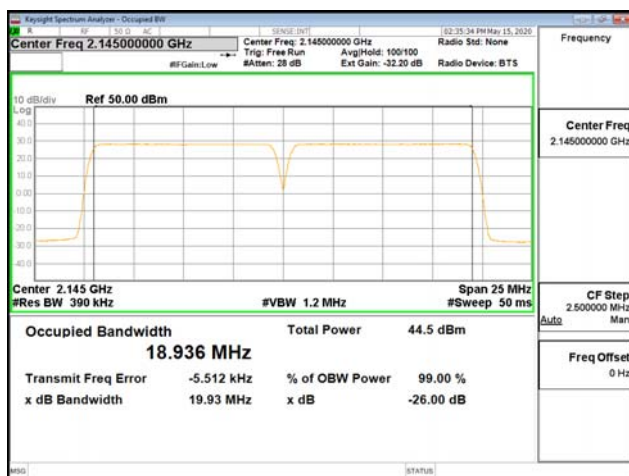
QPSK



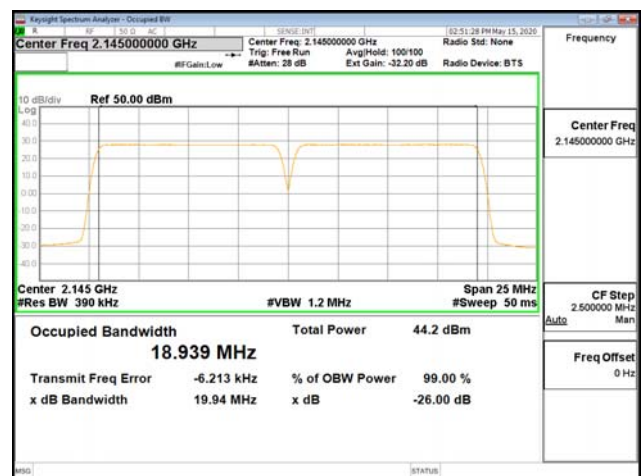
16QAM



64QAM

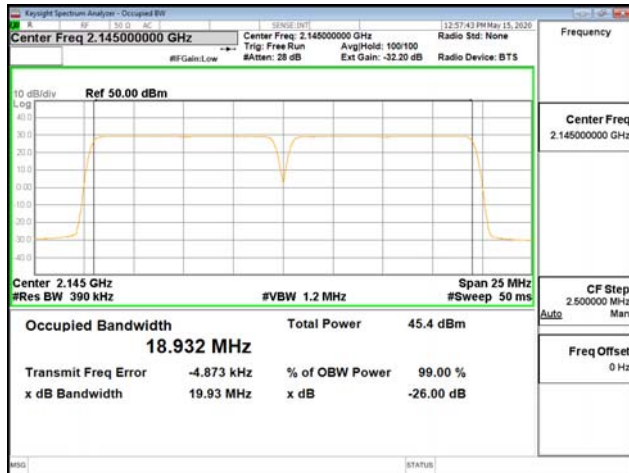


256QAM

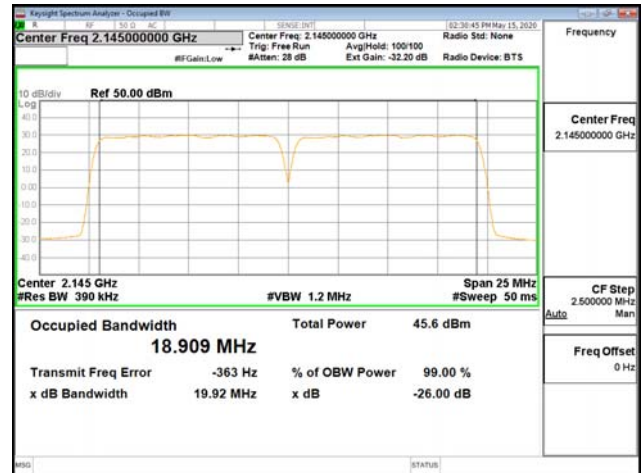


ANT1

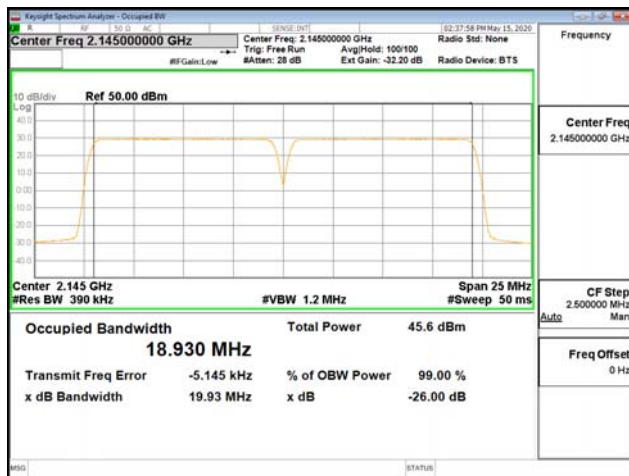
QPSK



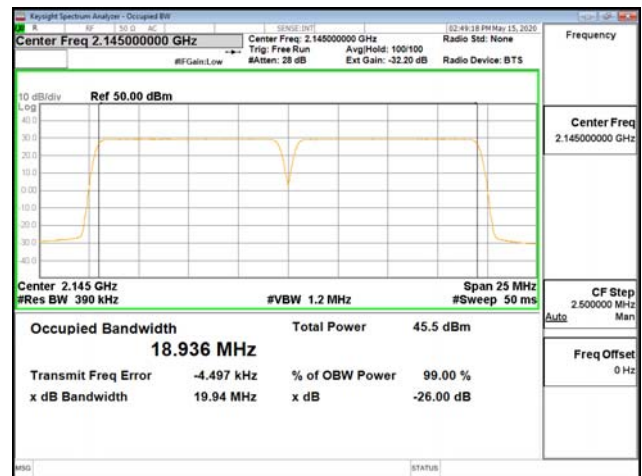
16QAM



64QAM

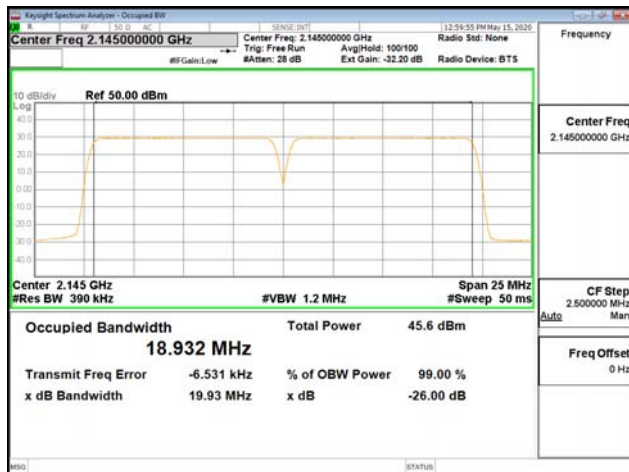


256QAM

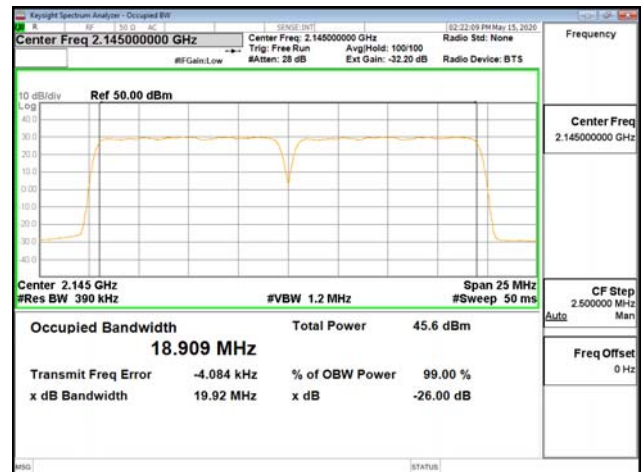


ANT2

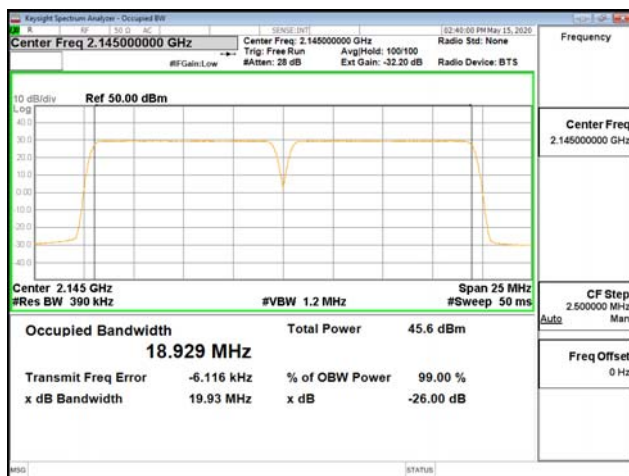
QPSK



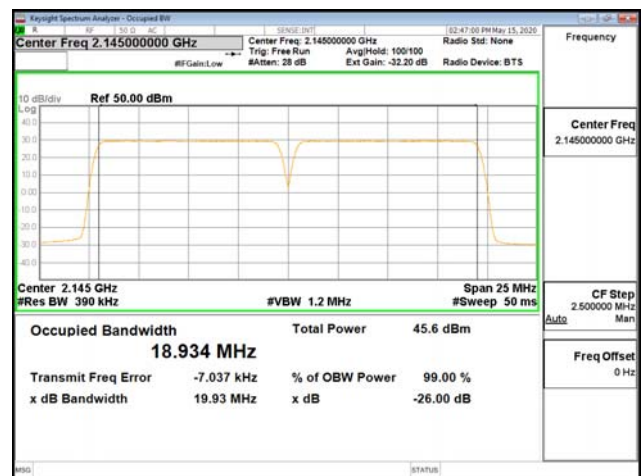
16QAM



64QAM

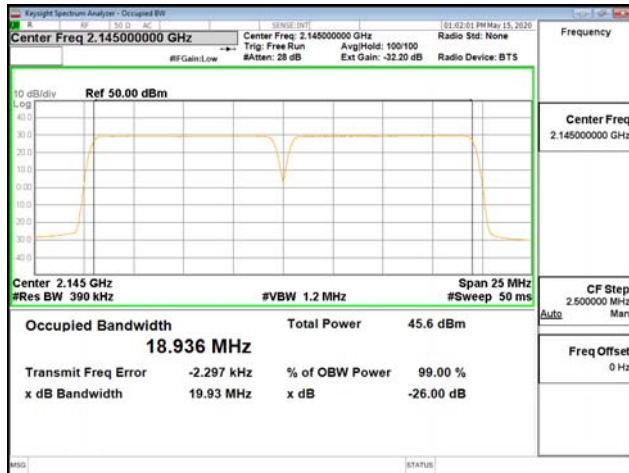


256QAM

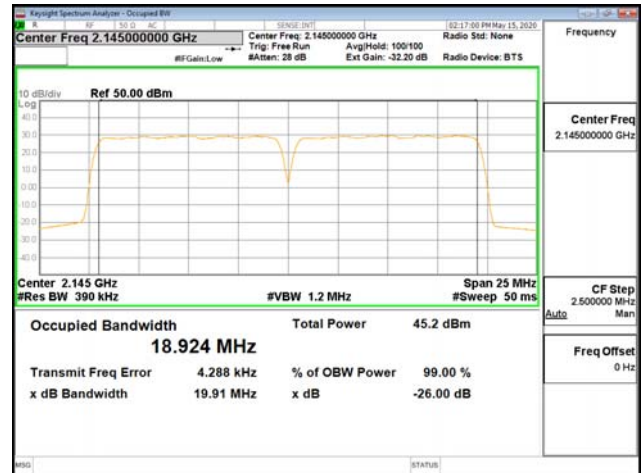


ANT3

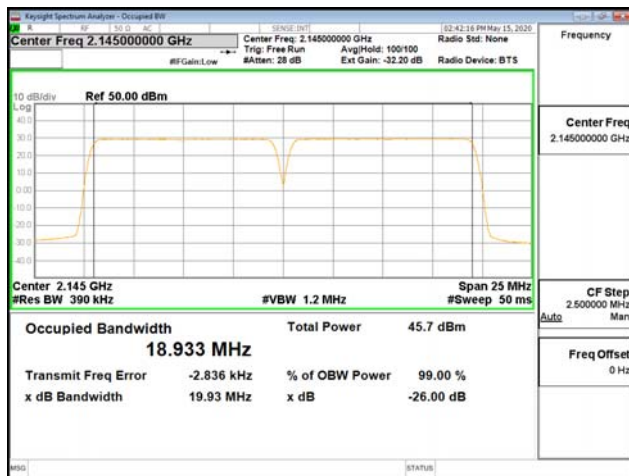
QPSK



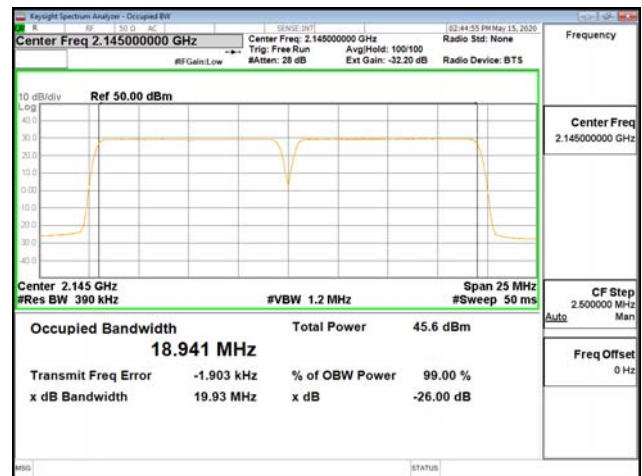
16QAM



64QAM

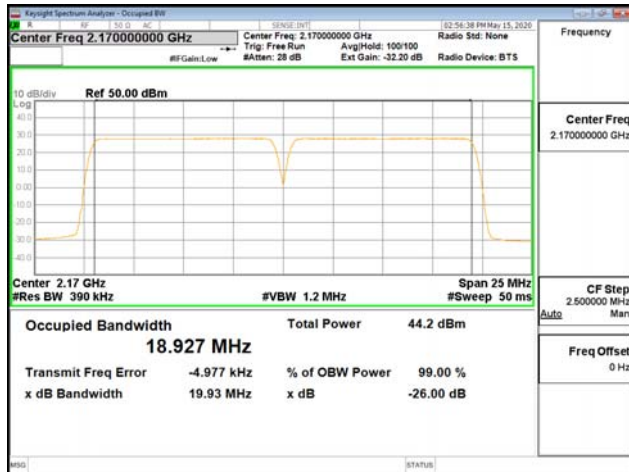


256QAM

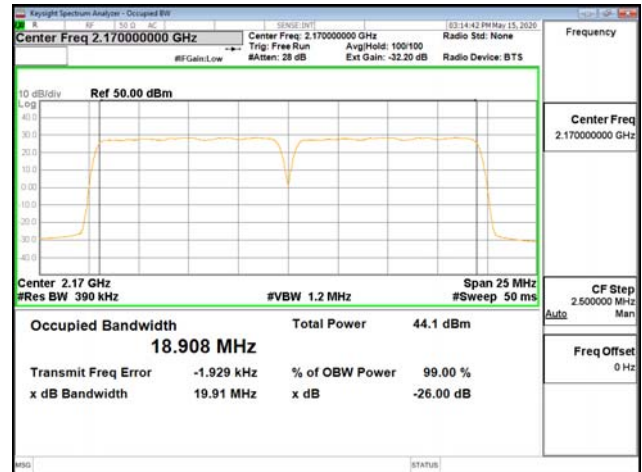


**Band 66, BW 10MHz+10MHz, Multi 2 carrier, Top
ANT0**

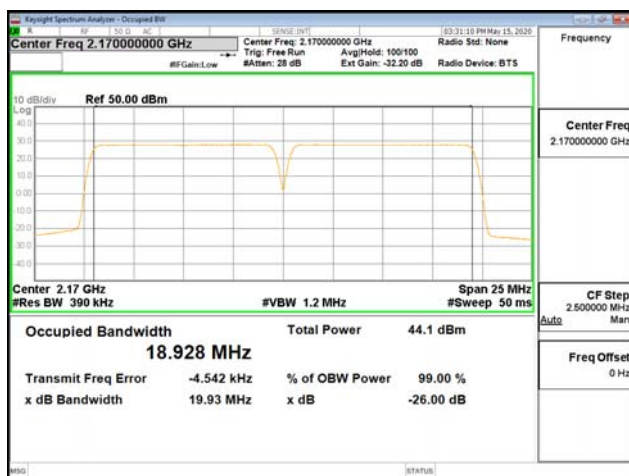
QPSK



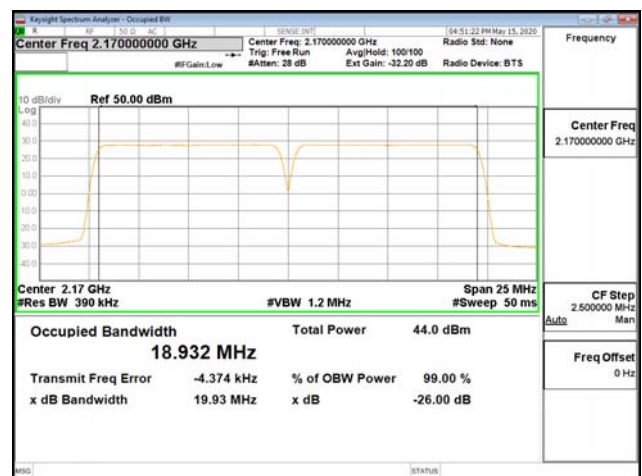
16QAM



64QAM

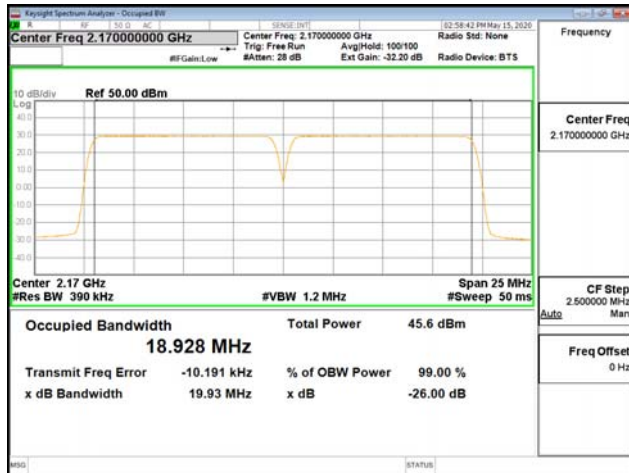


256QAM

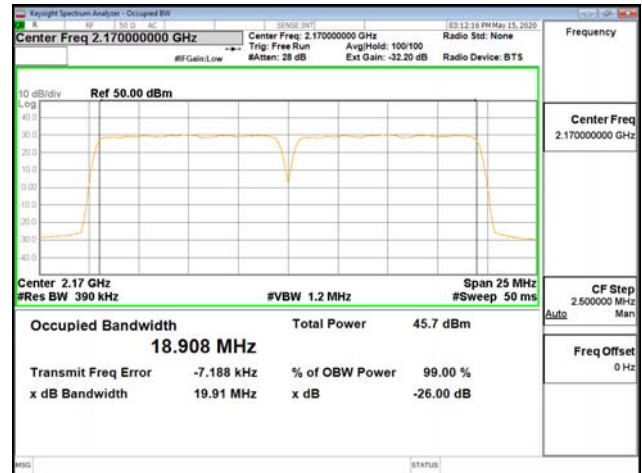


ANT1

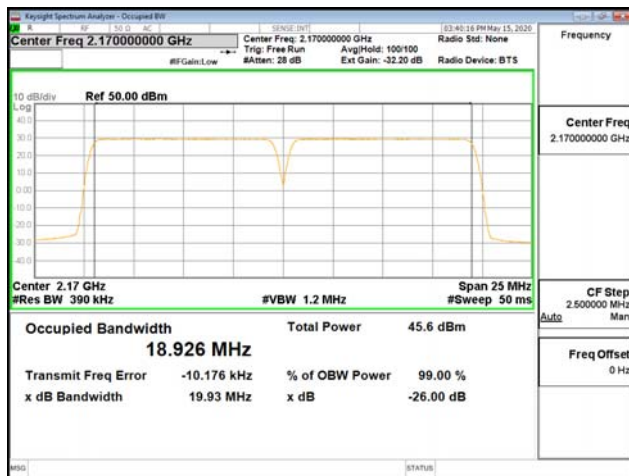
QPSK



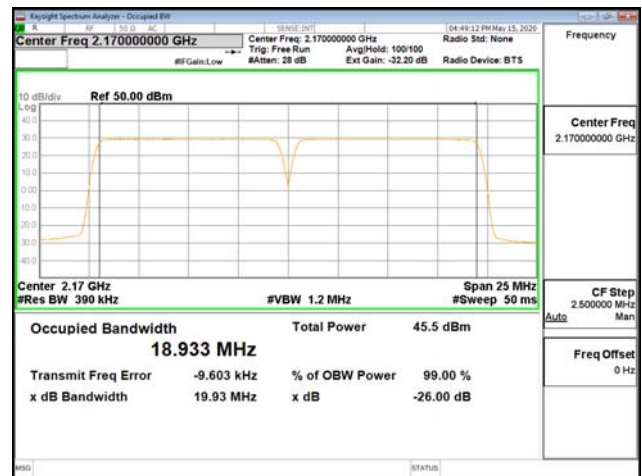
16QAM



64QAM

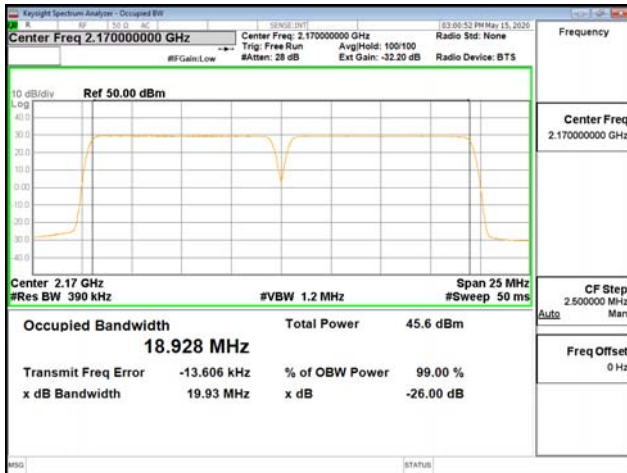


256QAM

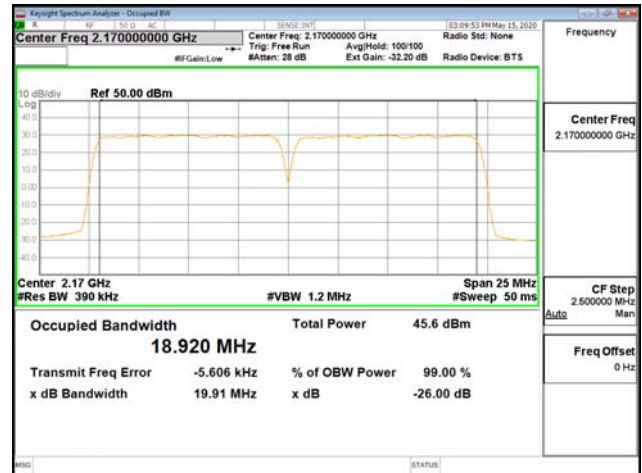


ANT2

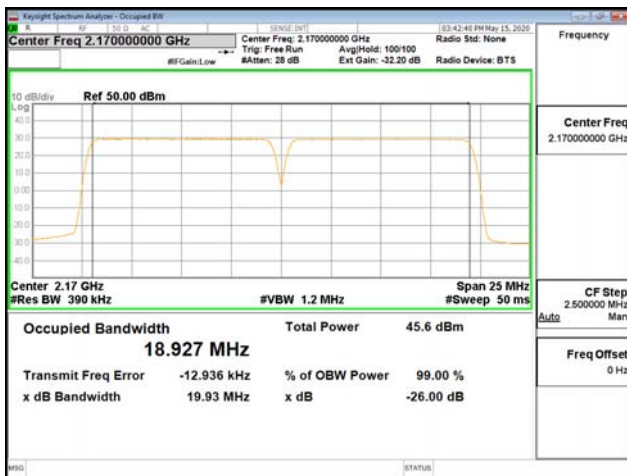
QPSK



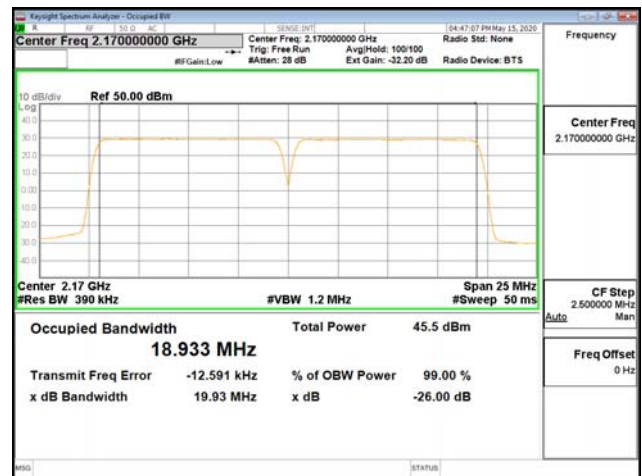
16QAM



64QAM

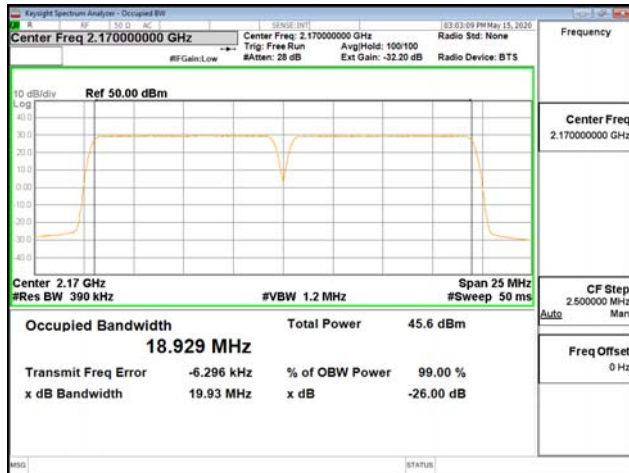


256QAM

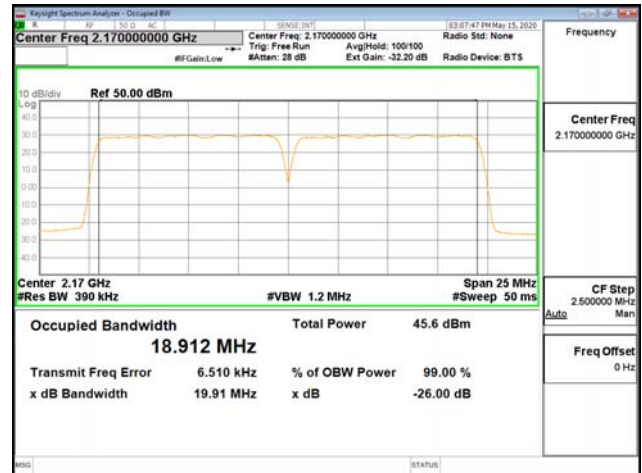


ANT3

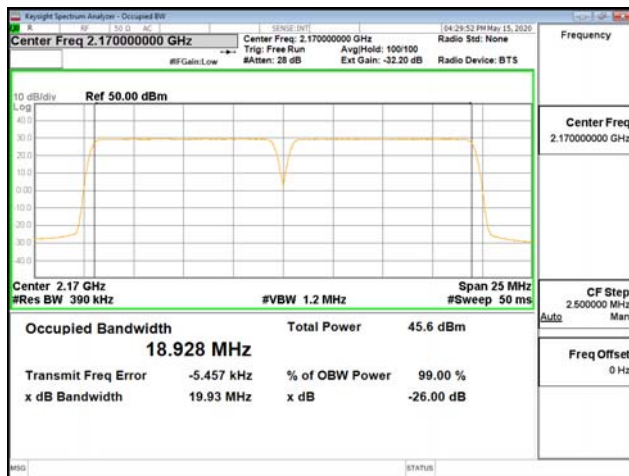
QPSK



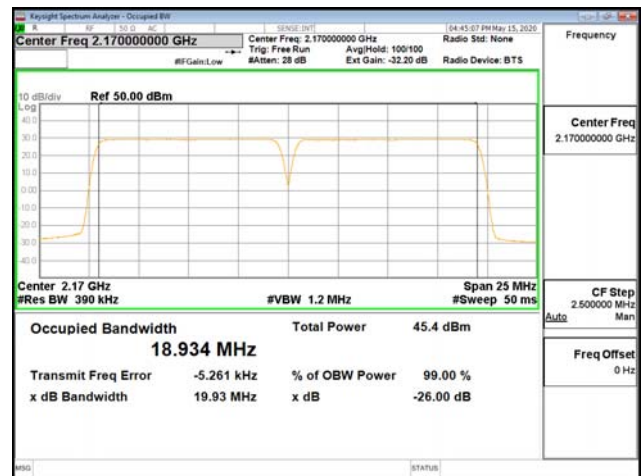
16QAM



64QAM

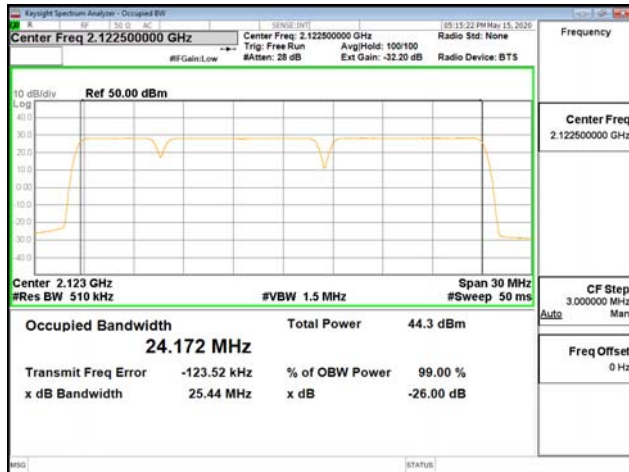


256QAM

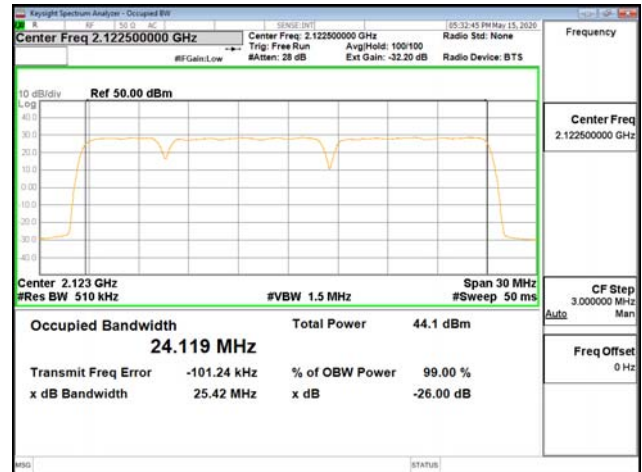


**Band 66, BW 5MHz+10MHz+10MHz, Multi 3 carrier, Bottom
ANT0**

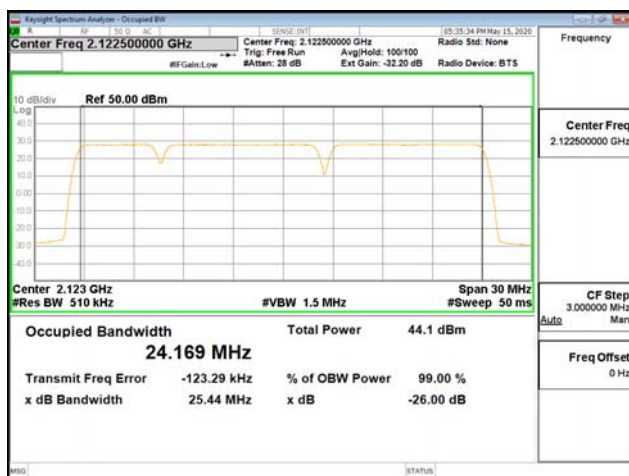
QPSK



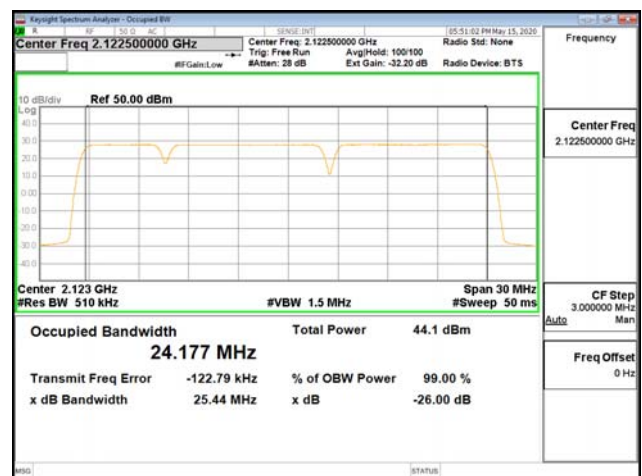
16QAM



64QAM

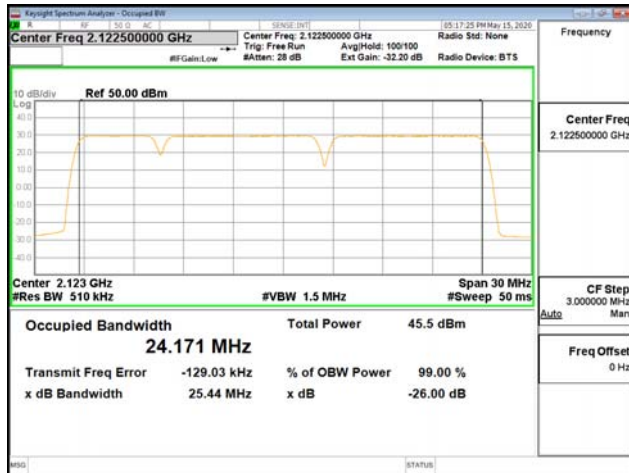


256QAM

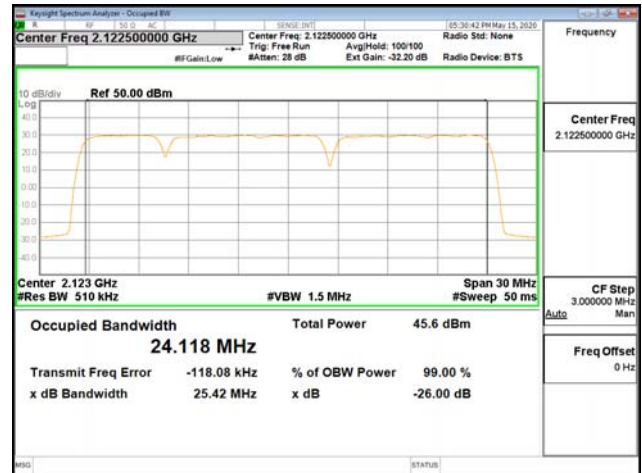


ANT1

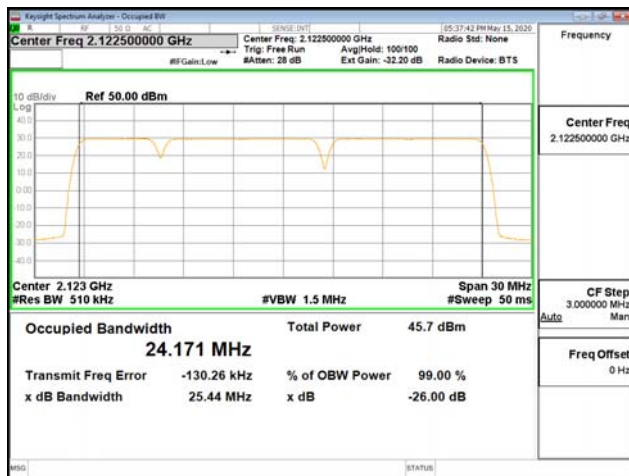
QPSK



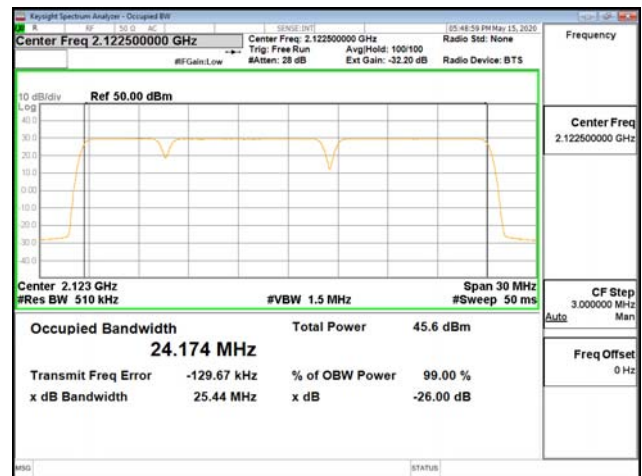
16QAM



64QAM

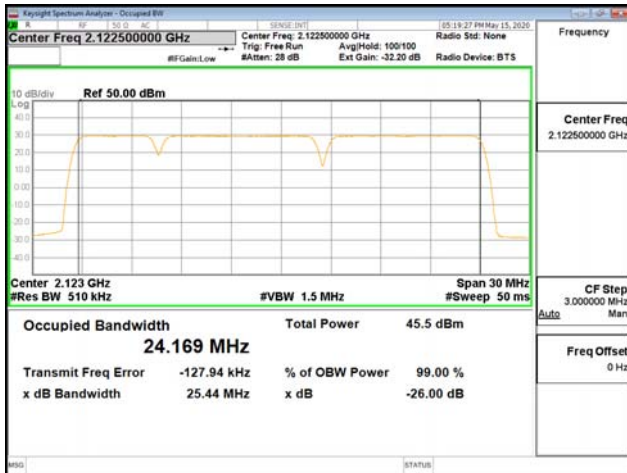


256QAM

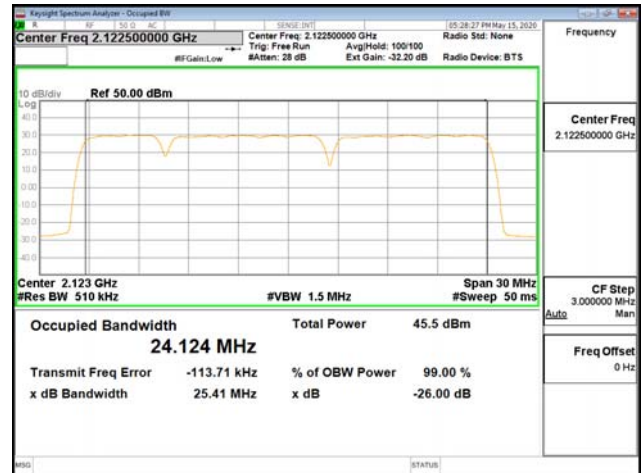


ANT2

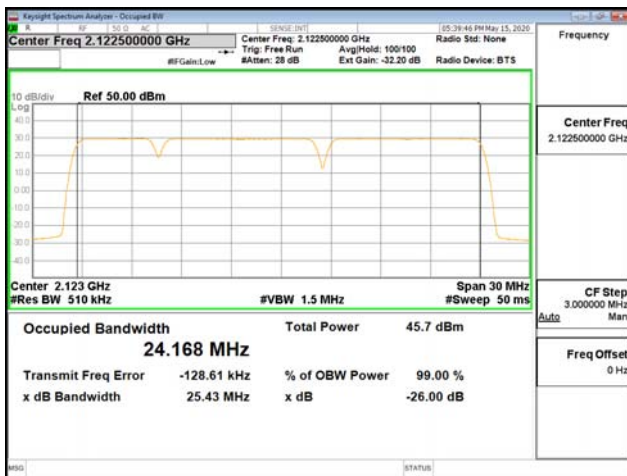
QPSK



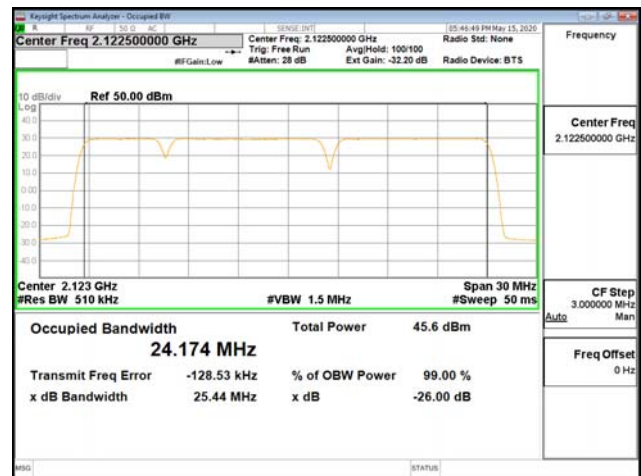
16QAM



64QAM

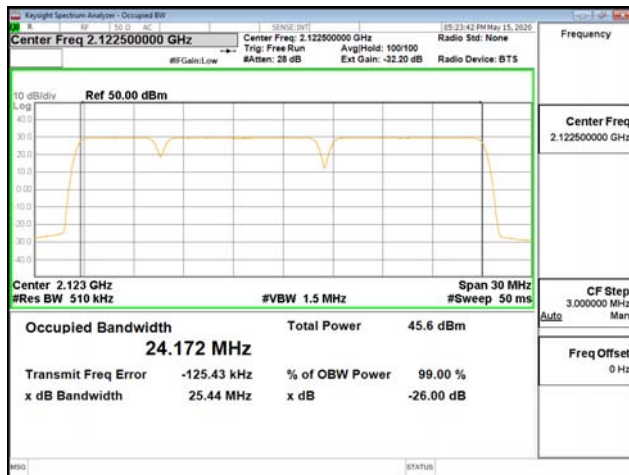


256QAM

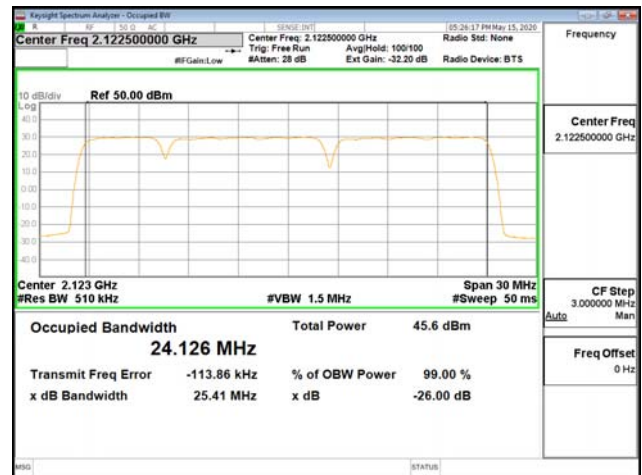


ANT3

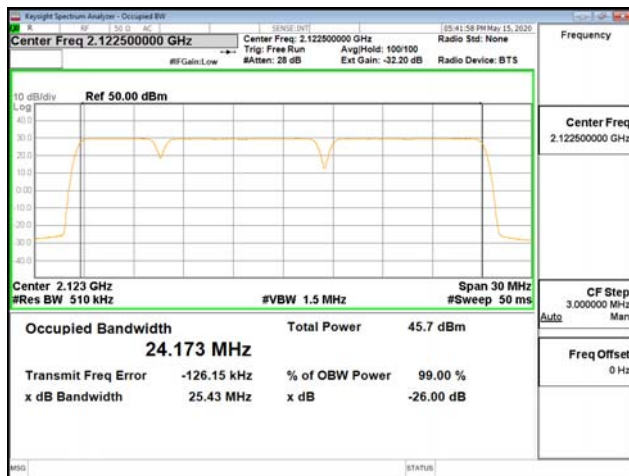
QPSK



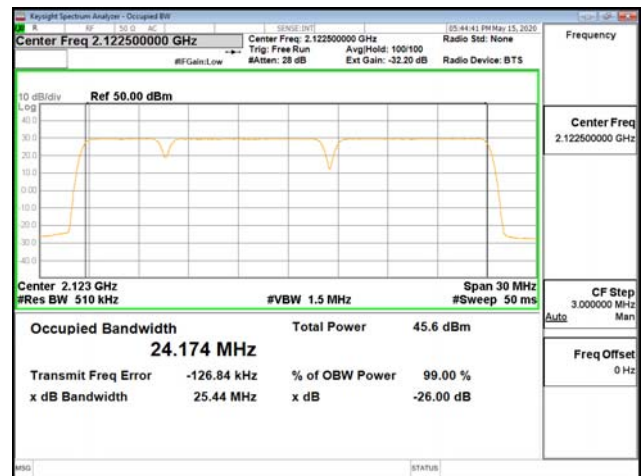
16QAM



64QAM

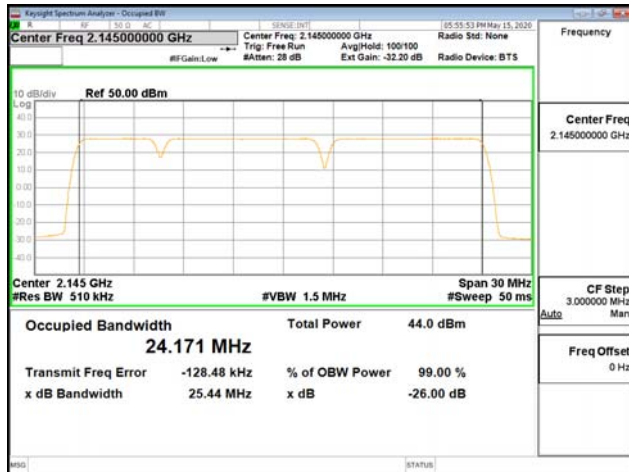


256QAM

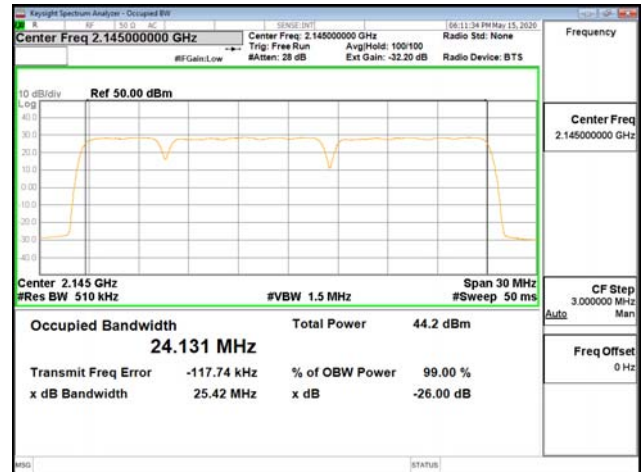


**Band 66, BW 5MHz+10MHz+10MHz, Multi 3 carrier, Middle
ANT0**

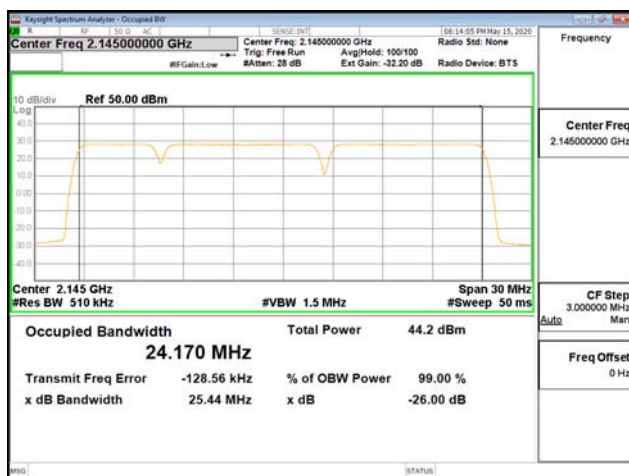
QPSK



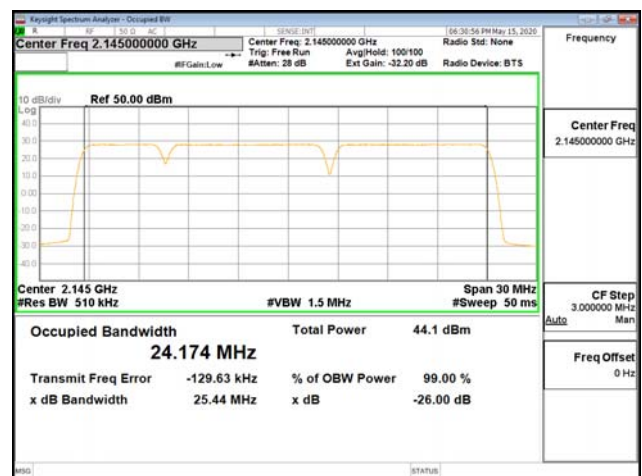
16QAM



64QAM

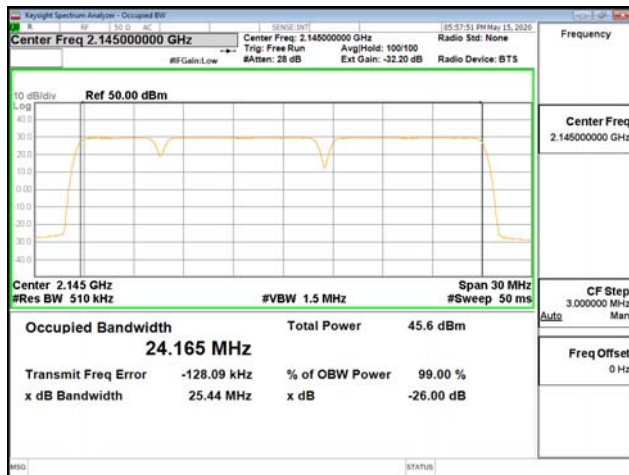


256QAM

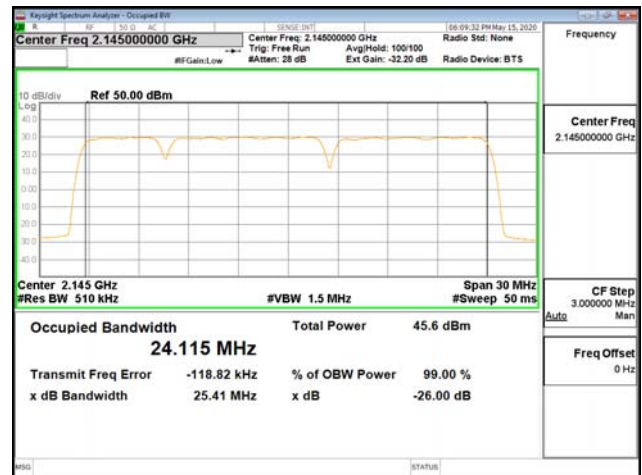


ANT1

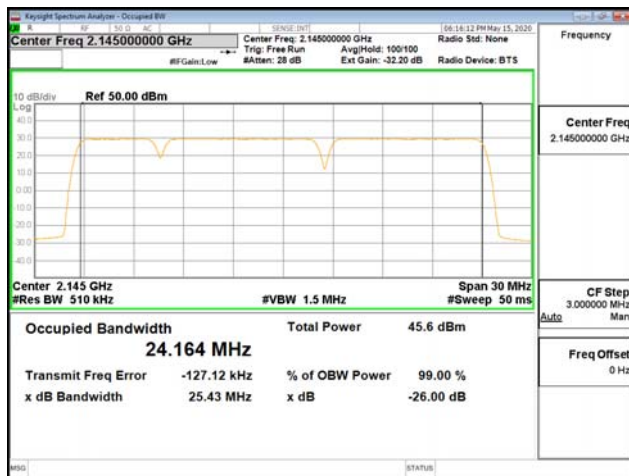
QPSK



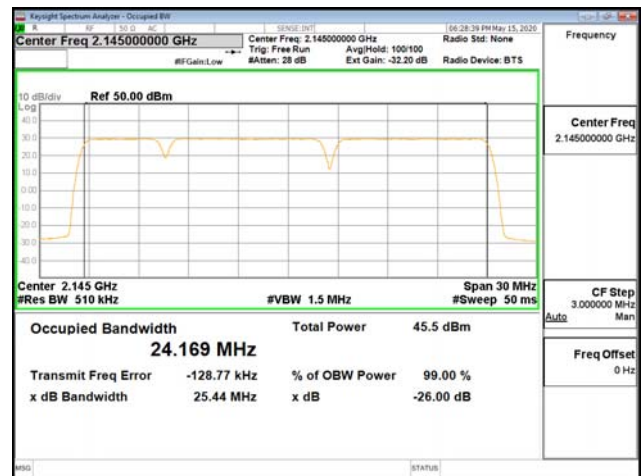
16QAM



64QAM

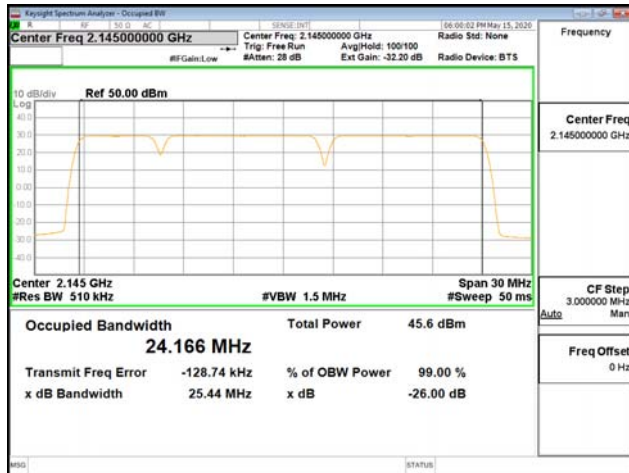


256QAM

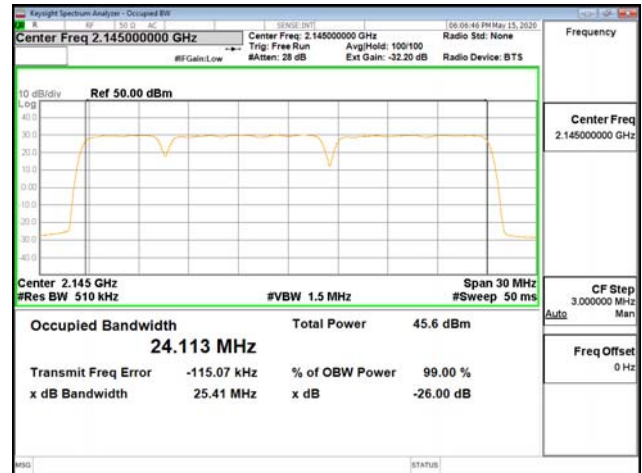


ANT2

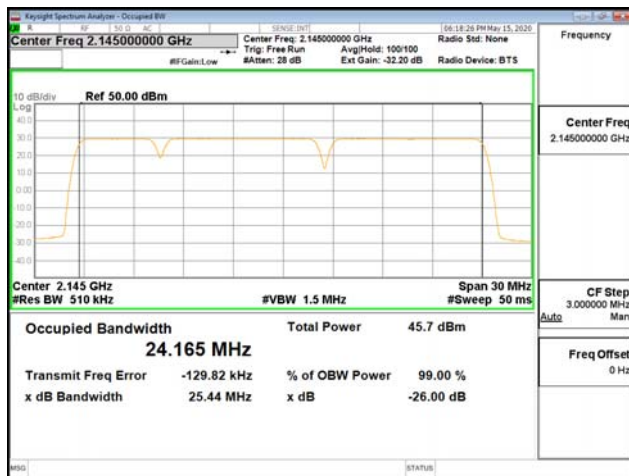
QPSK



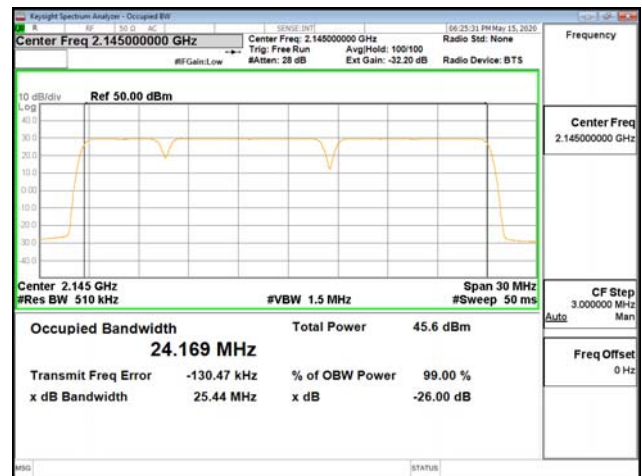
16QAM



64QAM

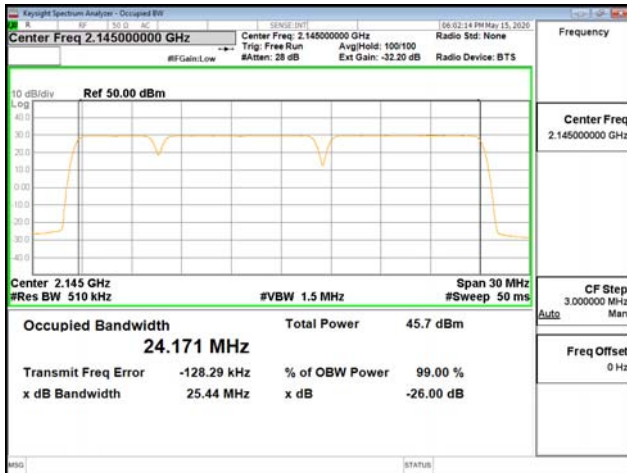


256QAM

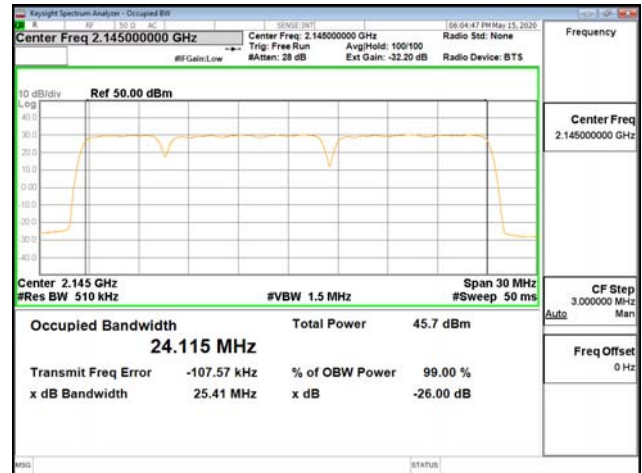


ANT3

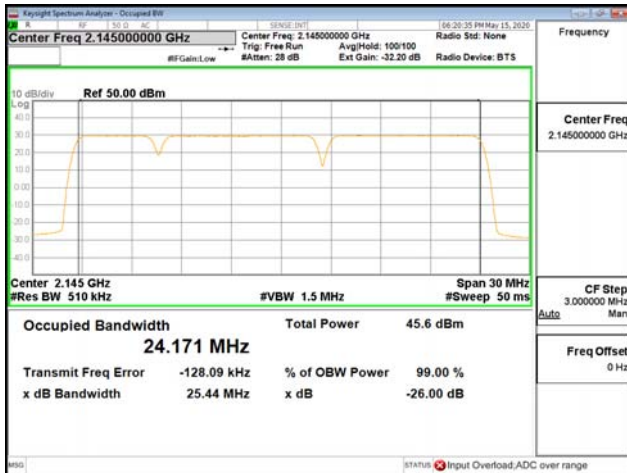
QPSK



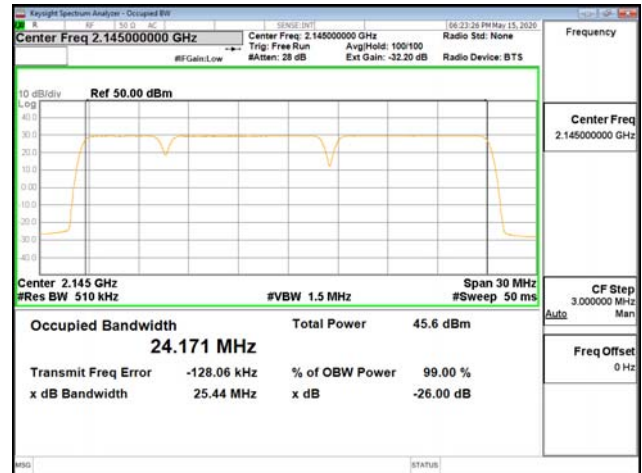
16QAM



64QAM

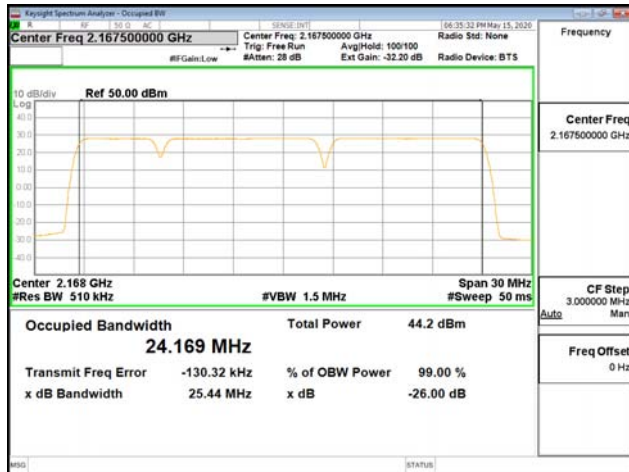


256QAM

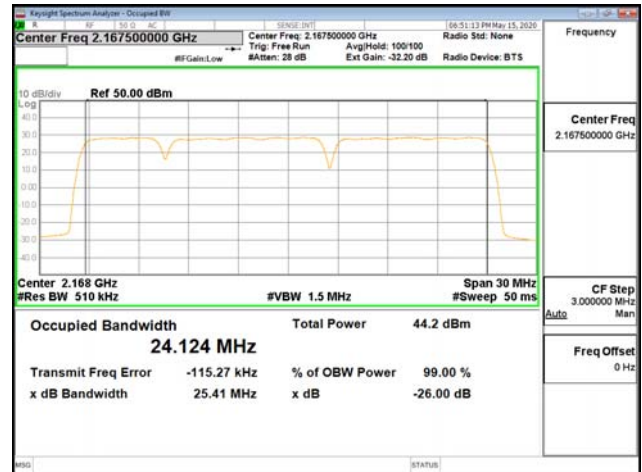


**Band 66, BW 5MHz+10MHz+10MHz, Multi 3 carrier, Top
ANT0**

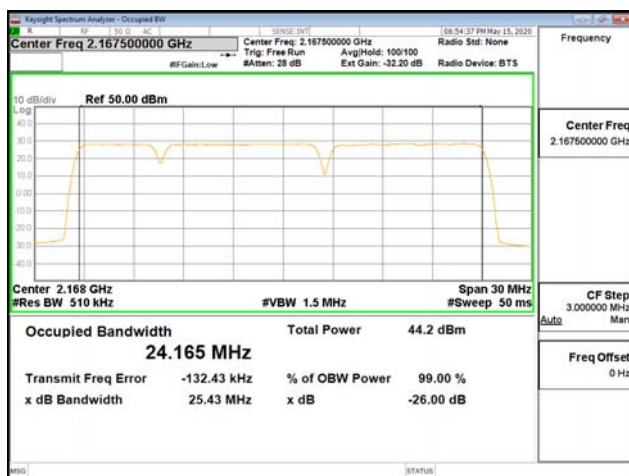
QPSK



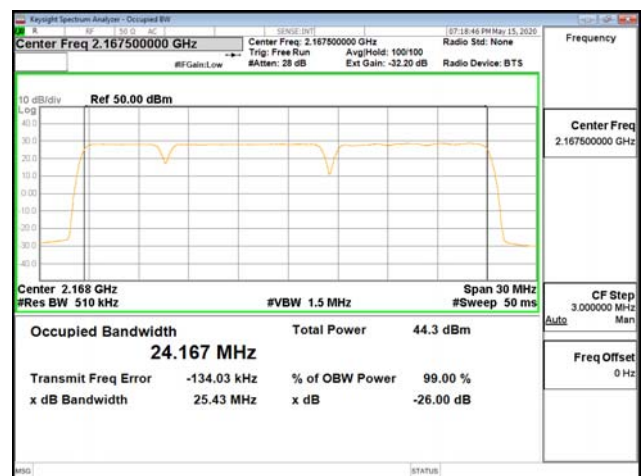
16QAM



64QAM

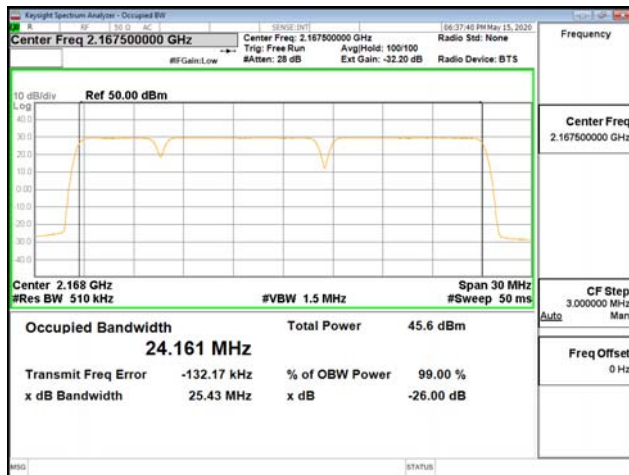


256QAM

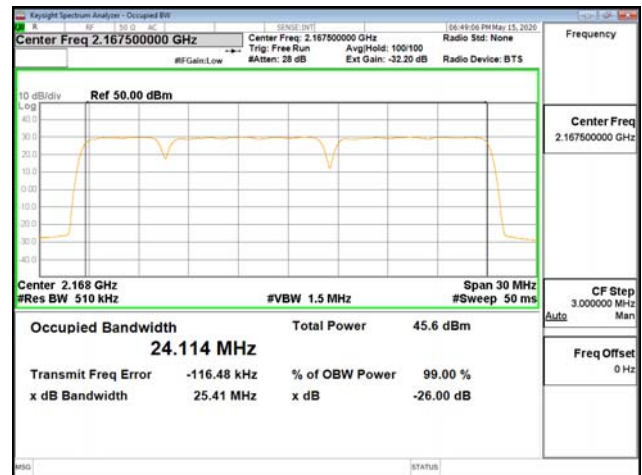


ANT1

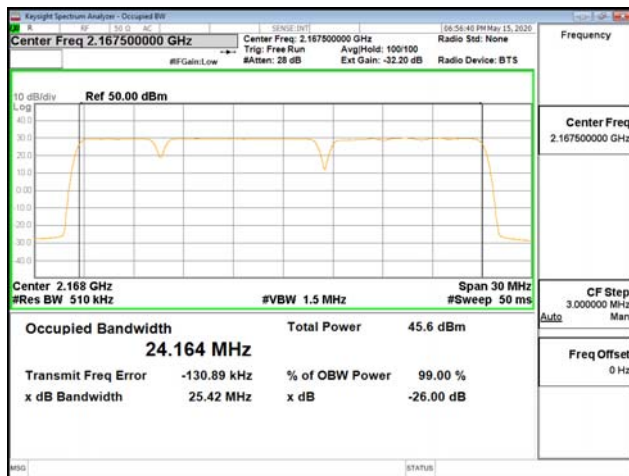
QPSK



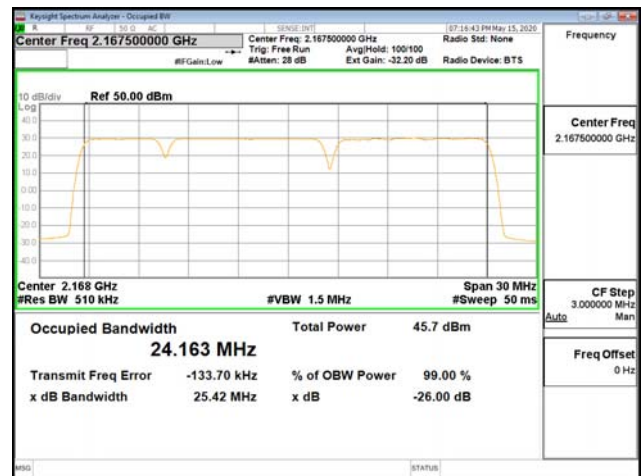
16QAM



64QAM

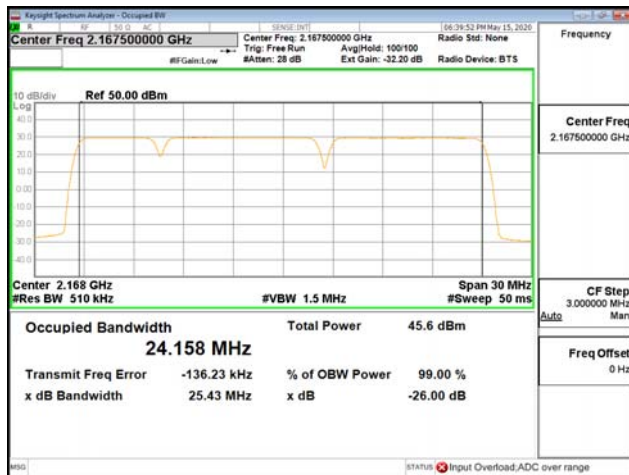


256QAM

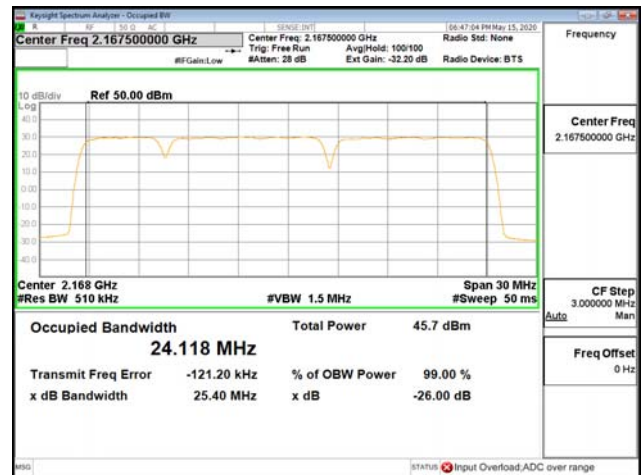


ANT2

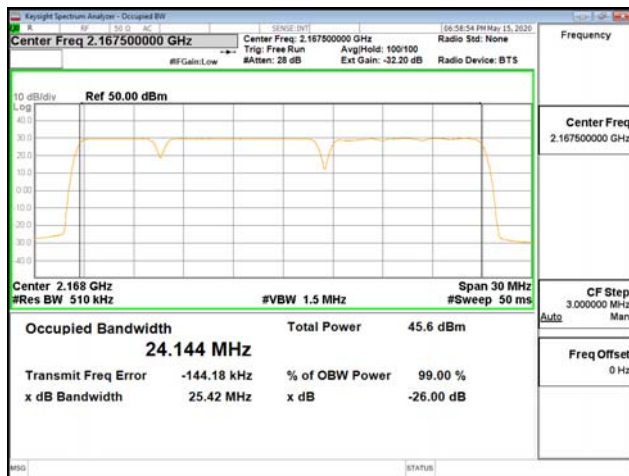
QPSK



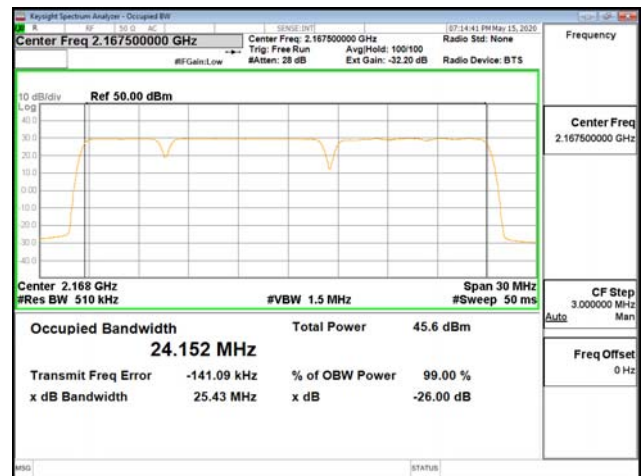
16QAM



64QAM

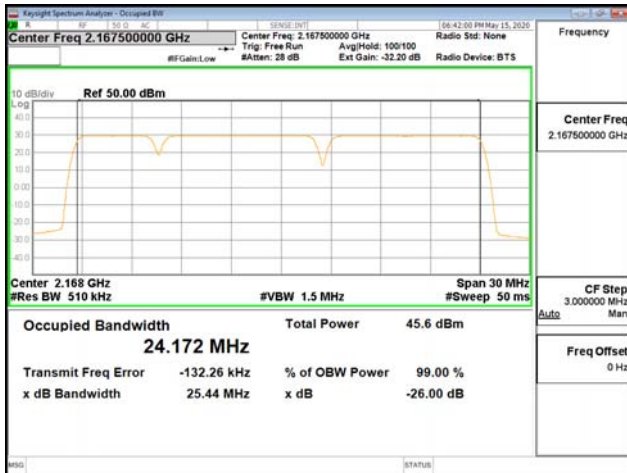


256QAM

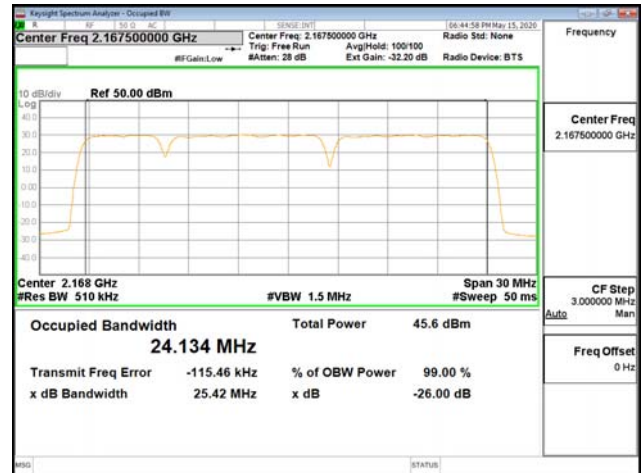


ANT3

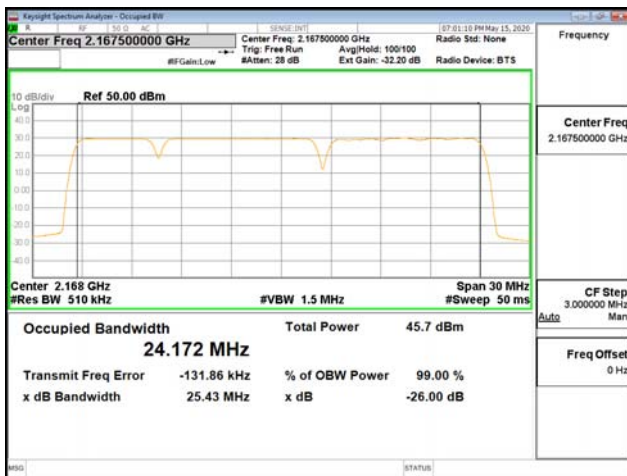
QPSK



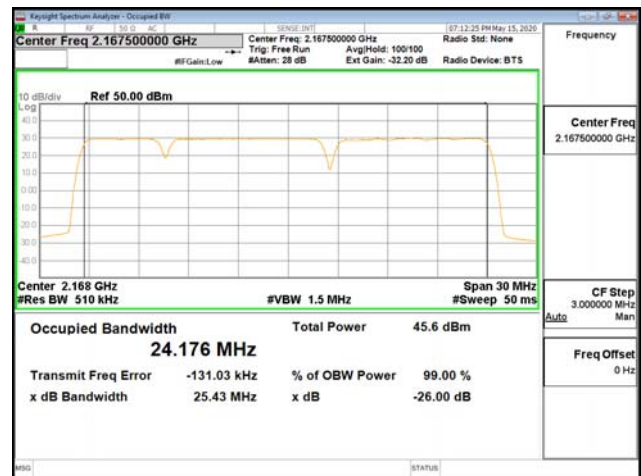
16QAM



64QAM



256QAM



	CTK Co., Ltd. (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970 Fax: +82-31-624-9501	Report No.: CTK-2020-01893 Page (177) / (497) Pages	
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6. Spurious Emission at Antenna Terminal

§ 27.53 Emission limits

(h) AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

(3) Measurement procedure. (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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.

(ii) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.

(iii) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

Test Procedures :

The RF Output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.

The resolution bandwidth of the spectrum analyzer was set at 100 kHz(below 1 GHz), 1 MHz(Above 1 GHz). Sufficient scans were taken to show any out of band emissions up to 10th harmonic.

Notes :

1. In 9 kHz - 10 kHz and 150 kHz - 30 MHz bands, RBW was reduced to 1% and 10% of the reference bandwidth for measuring unwanted emission level(typically, 100 kHz if the authorized frequency band is below 1 GHz) and power was integrated.(1% = +20 dB, 10% = +10 dB)
2. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its at maximum power, and at the appropriate frequencies.

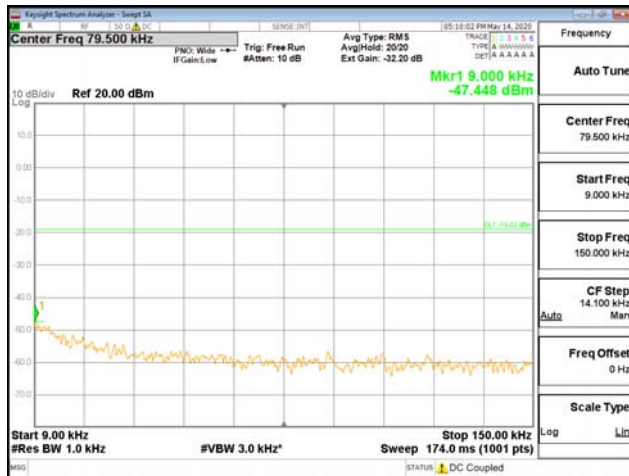
All modulation types were investigated to determine the worst case configuration.

All modulation types of operation were investigated and the worst case configuration results are reported in this section. (Worst case : QPSK, 64QAM)

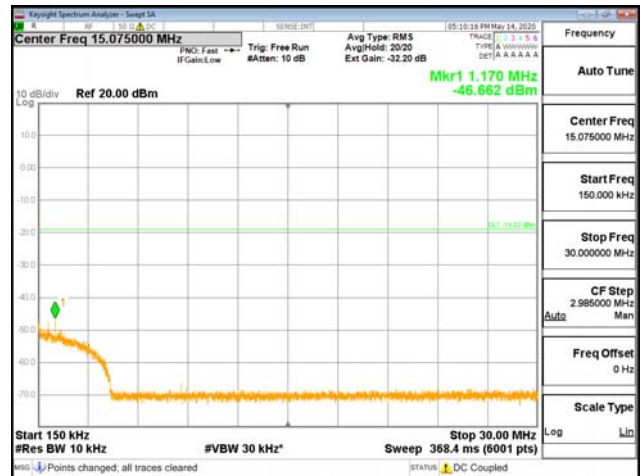
Test Plot at Spurious Emissions

Band 66, BW 5MHz, Single carrier, Bottom, QPSK
ANT0

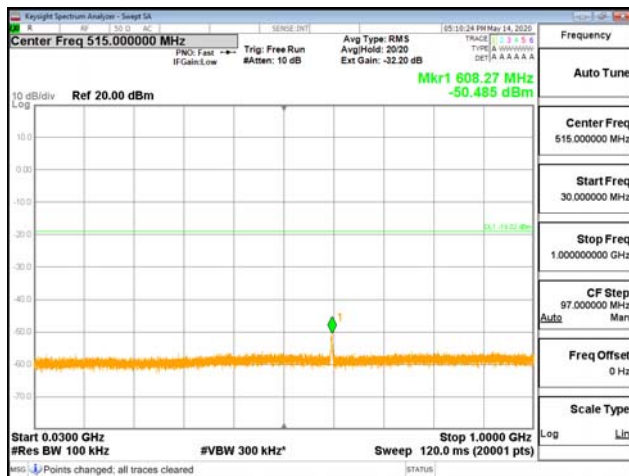
9 kHz - 150 kHz



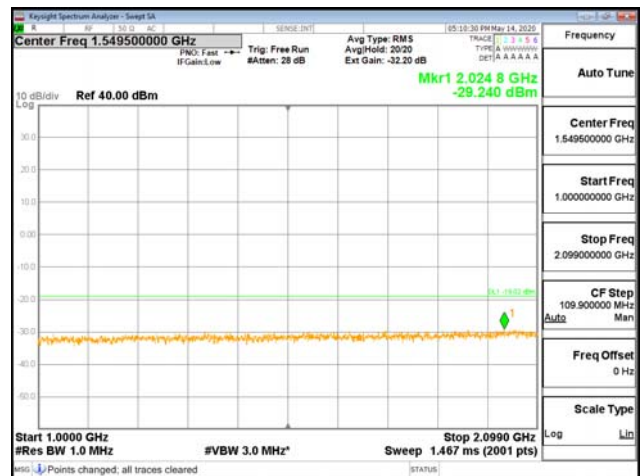
150 kHz - 30 MHz



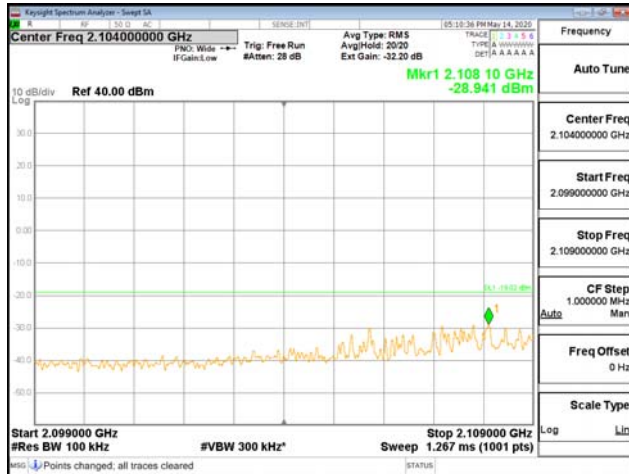
30 MHz - 1000 MHz



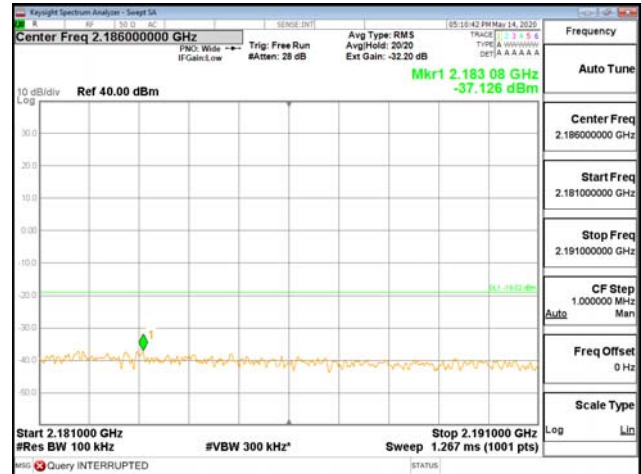
1000 MHz - 2099 MHz



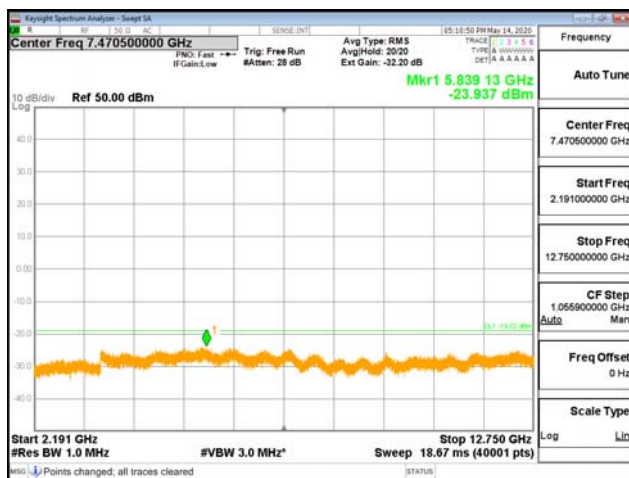
2099MHz - 2109MHz



2181MHz - 2191MHz



2191 MHz - 12.75GHz

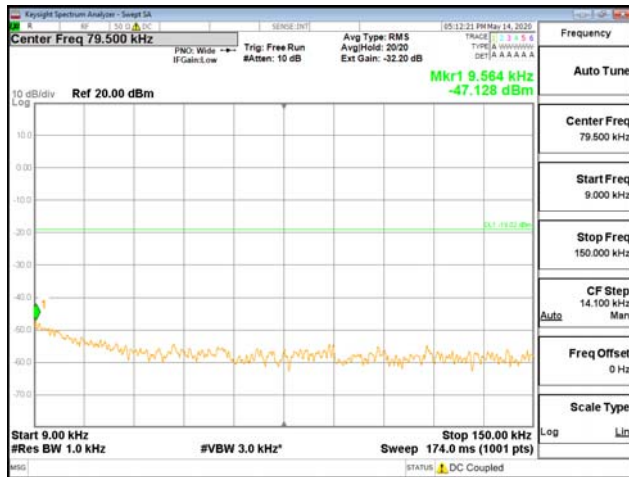


12.75GHz - 26.5GHz

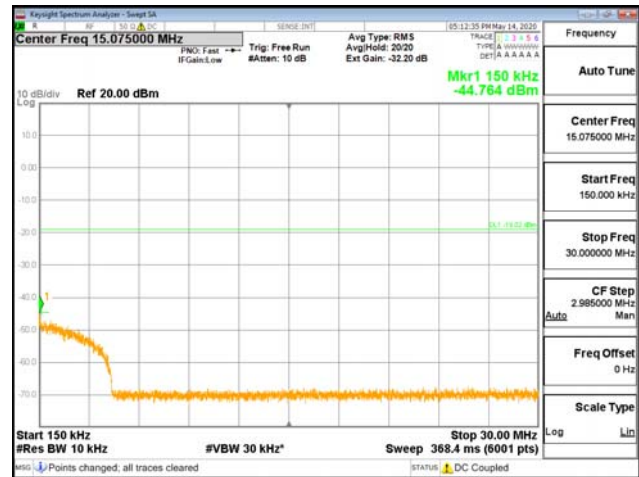


ANT1

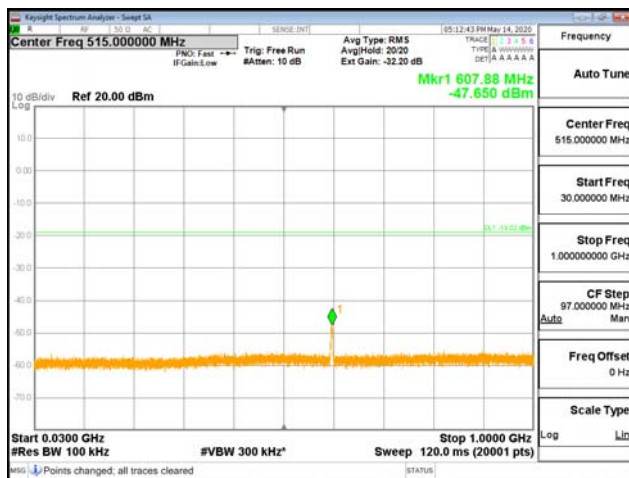
9 kHz - 150 kHz



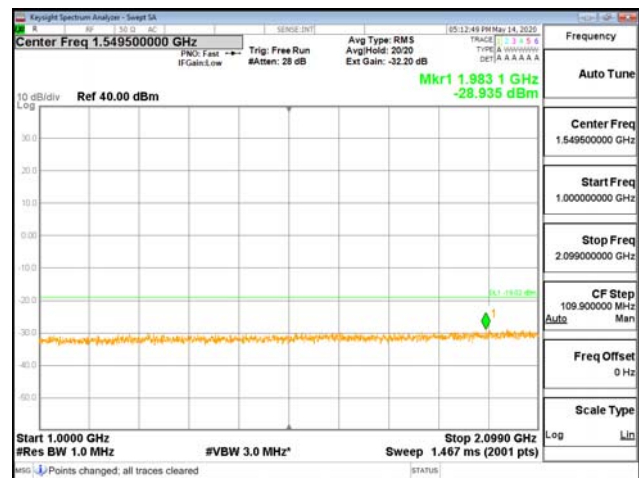
150 kHz - 30 MHz



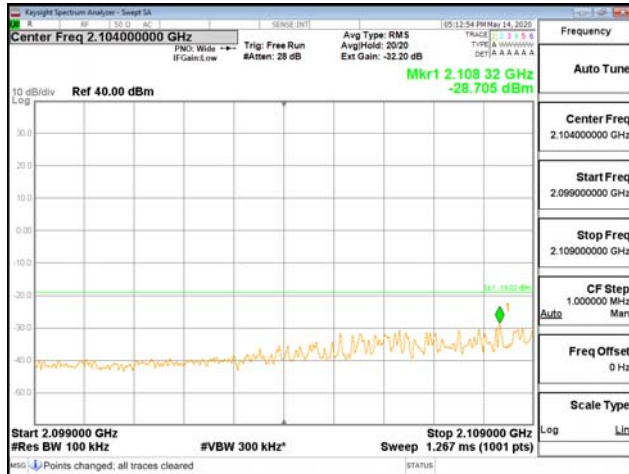
30 MHz - 1000 MHz



1000 MHz - 2099 MHz



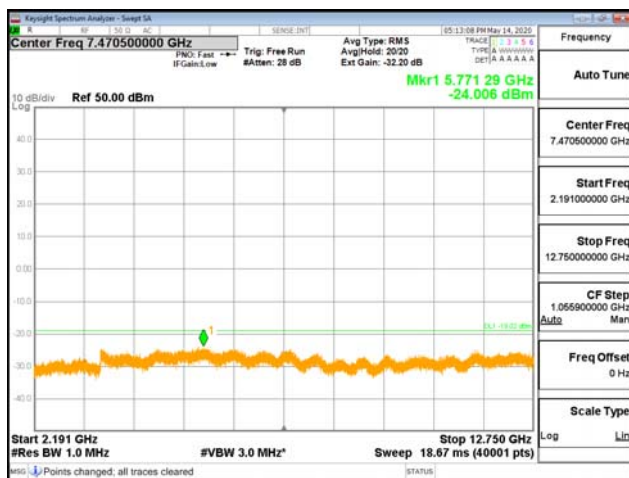
2099MHz - 2109MHz



2181MHz - 2191MHz



2191 MHz - 12.75GHz

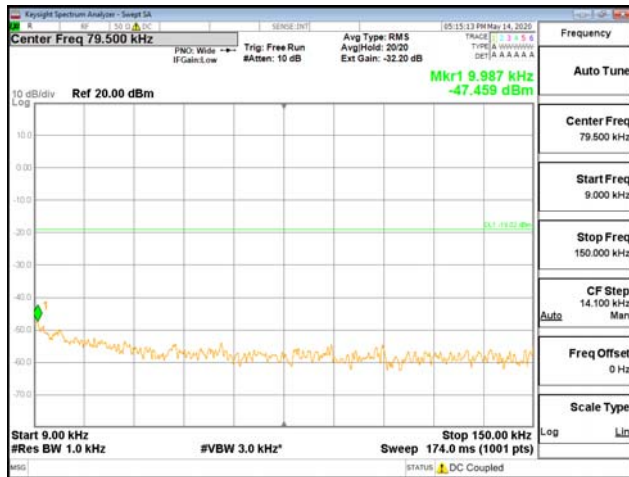


12.75GHz - 26.5GHz

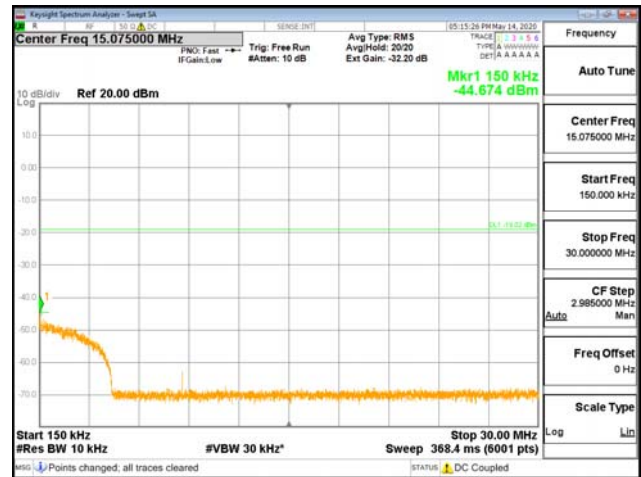


ANT2

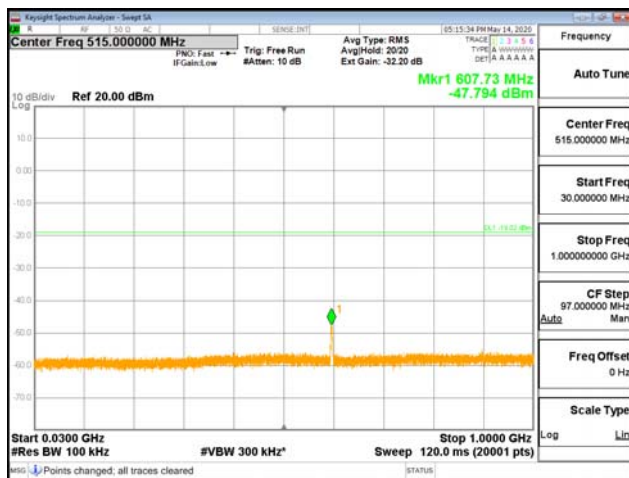
9 kHz - 150 kHz



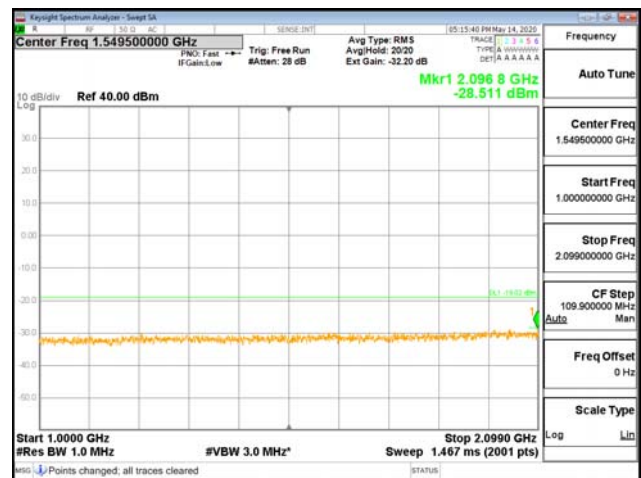
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 2099 MHz



2099 MHz - 2109 MHz



2181 MHz - 2191 MHz



2191 MHz - 12.75 GHz

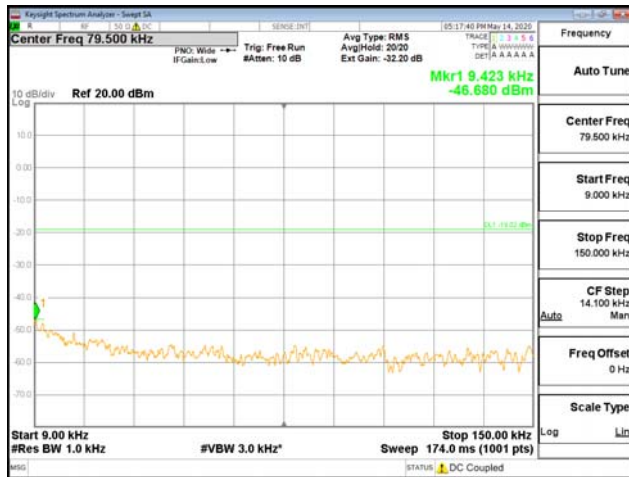


12.75GHz - 26.5GHz

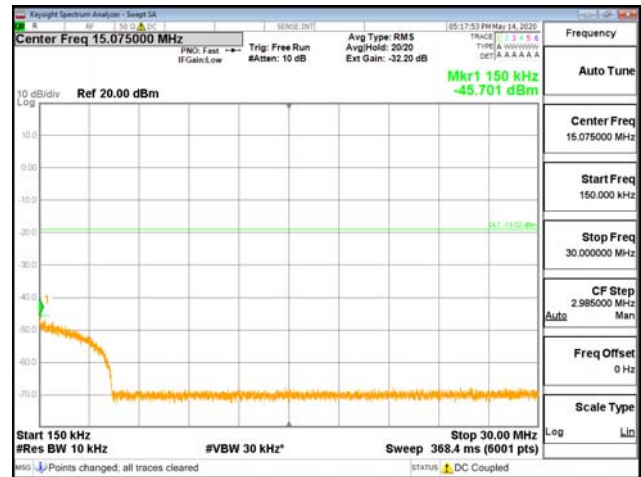


ANT3

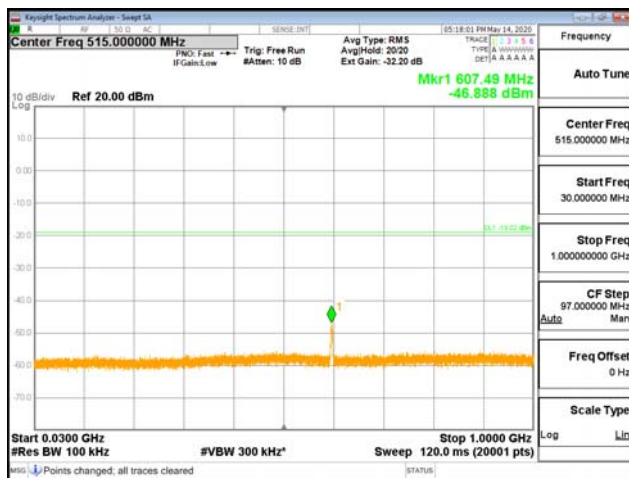
9 kHz - 150 kHz



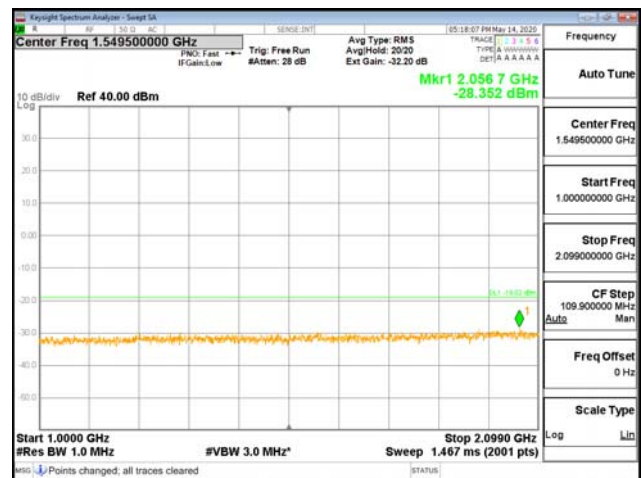
150 kHz - 30 MHz



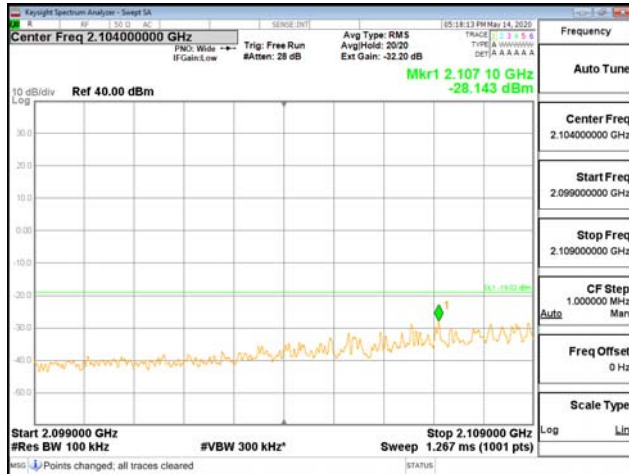
30 MHz - 1000 MHz



1000 MHz - 2099 MHz



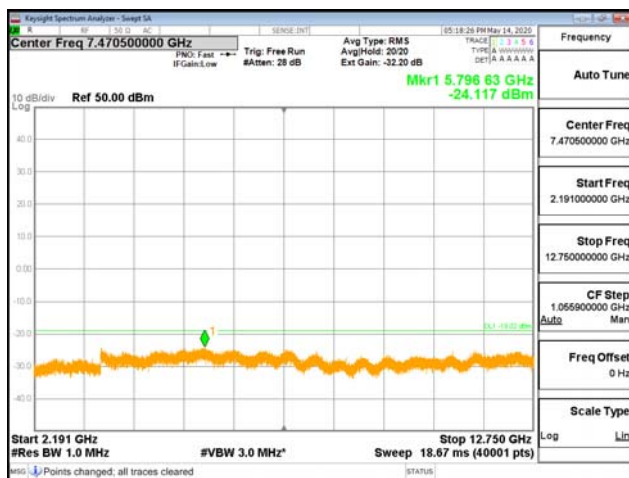
2099 MHz - 2109 MHz



2181 MHz - 2191 MHz



2191 MHz - 12.75 GHz

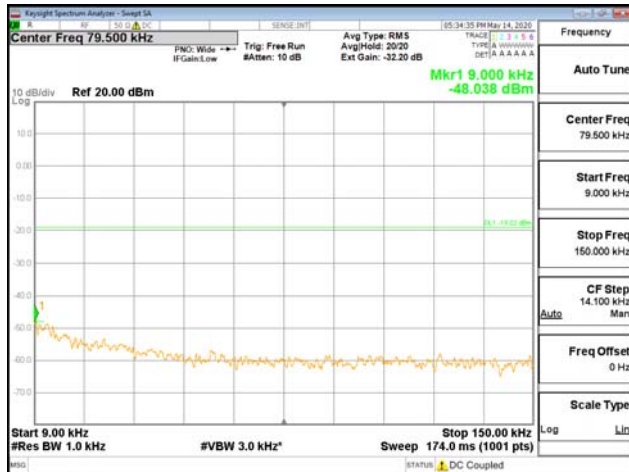


12.75GHz - 26.5GHz

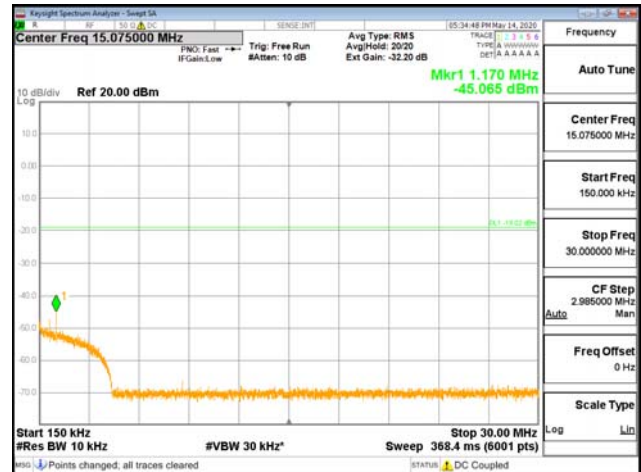


Band 66, BW 5MHz, Single carrier, Bottom, 64QAM
ANT0

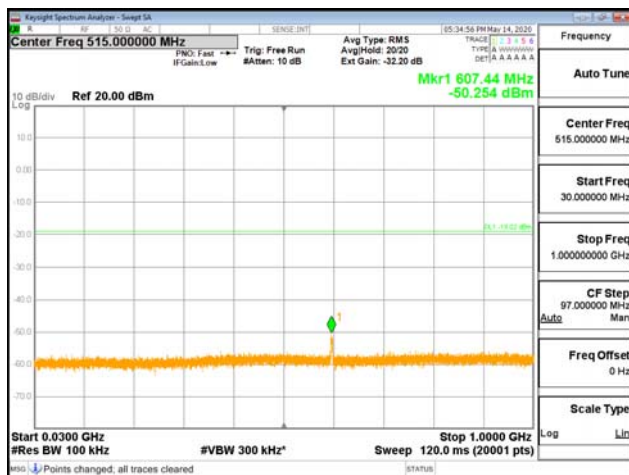
9 kHz - 150 kHz



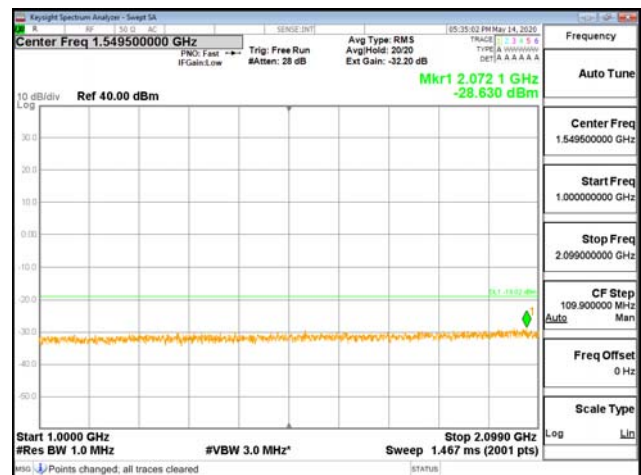
150 kHz - 30 MHz



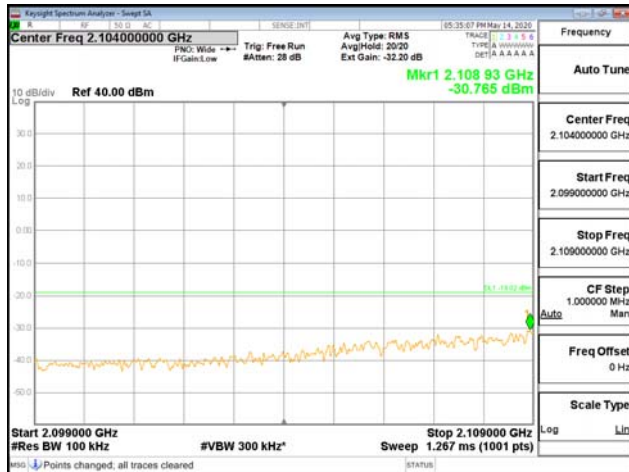
30 MHz - 1000 MHz



1000 MHz - 2099 MHz



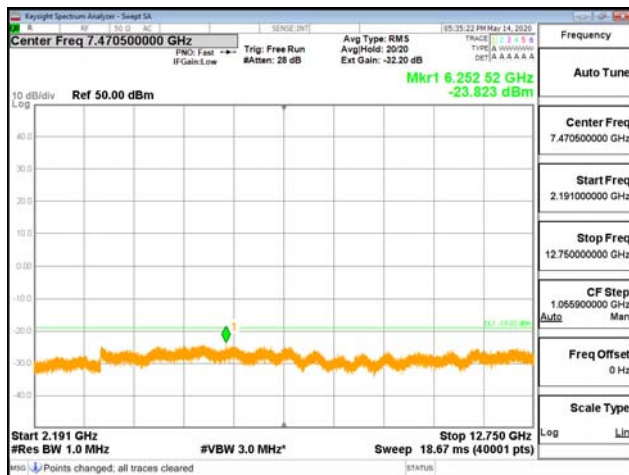
2099 MHz - 2109 MHz



2181 MHz - 2191 MHz



2191 MHz - 12.75 GHz

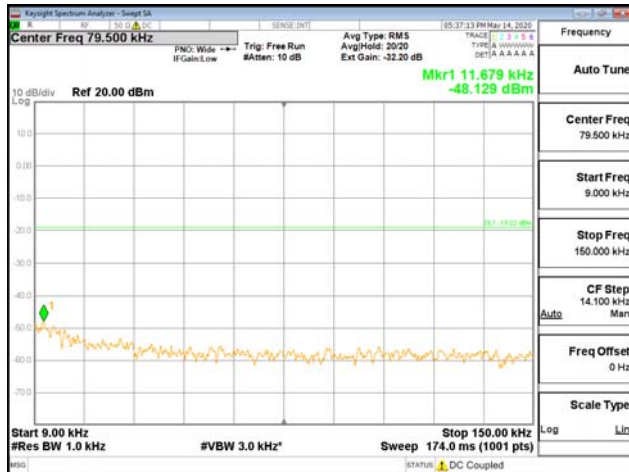


12.75GHz - 26.5GHz

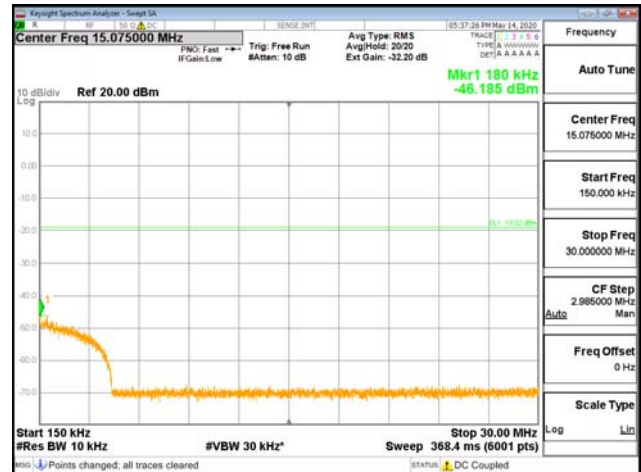


ANT1

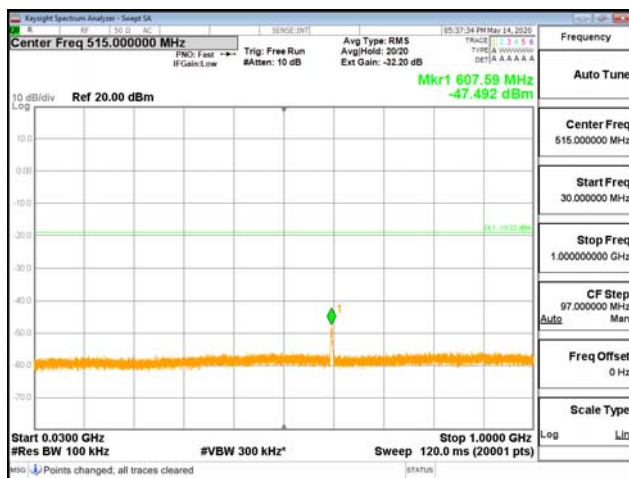
9 kHz - 150 kHz



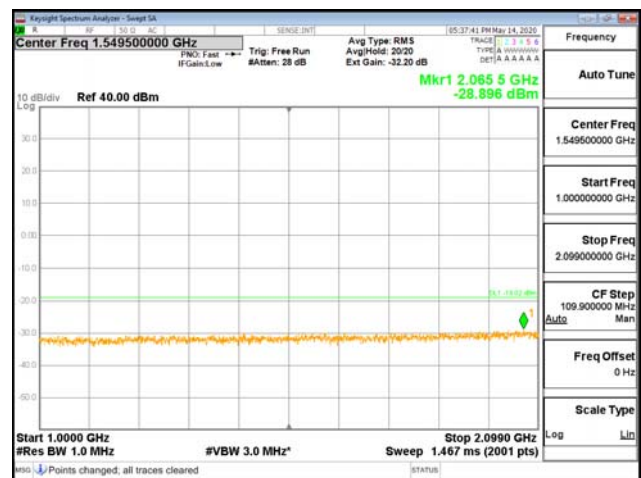
150 kHz - 30 MHz



30 MHz - 1000 MHz



1000 MHz - 2099 MHz



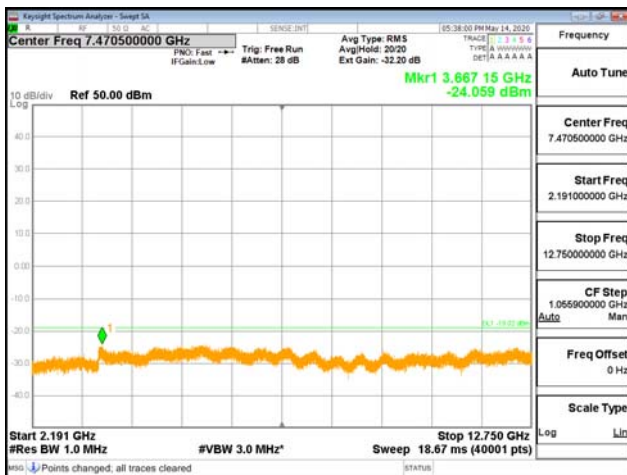
2099 MHz - 2109 MHz



2181 MHz - 2191 MHz



2191 MHz - 12.75 GHz



12.75GHz - 26.5GHz

