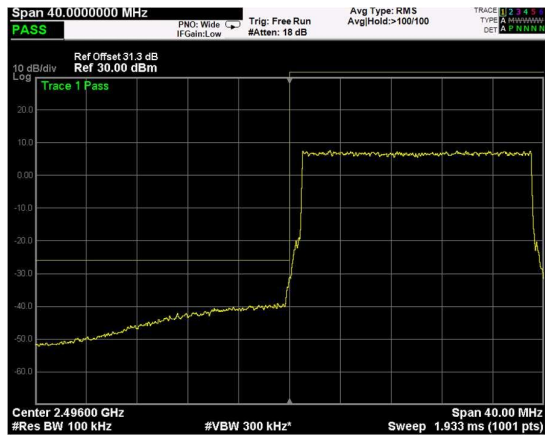
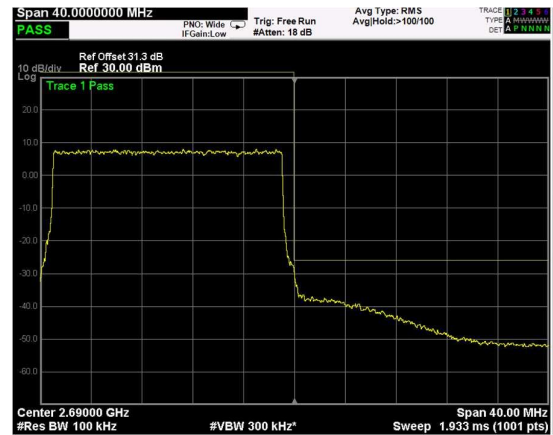
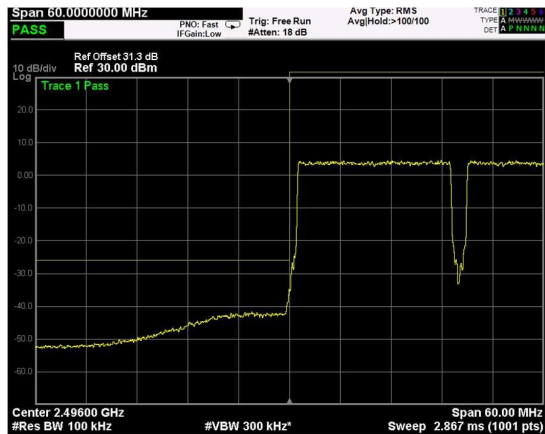




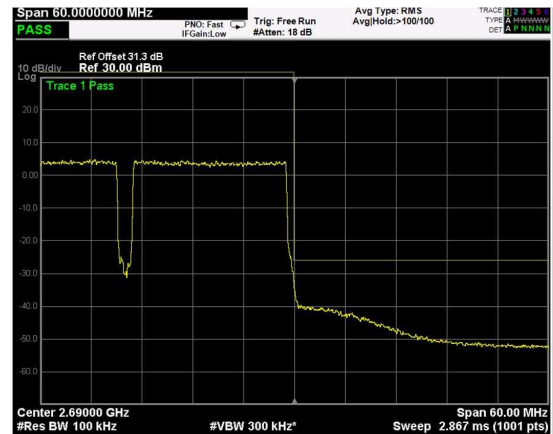
Low Band Edge, 1 Carrier,
Modulation: 256QAM, BW=20MHz



High Band Edge, 1 Carrier,
Modulation: 256QAM, BW=20MHz

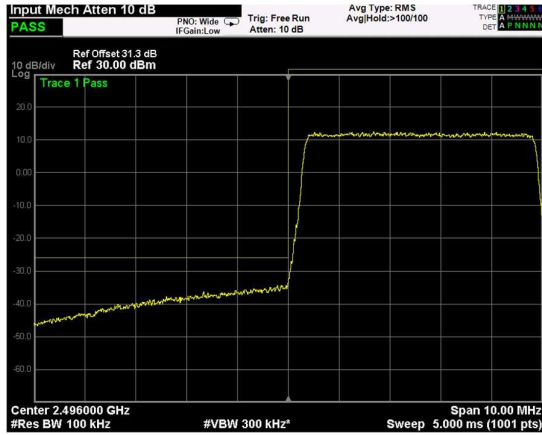


Low Band Edge, 2 Carrier,
Modulation: 256QAM, BW=20MHz

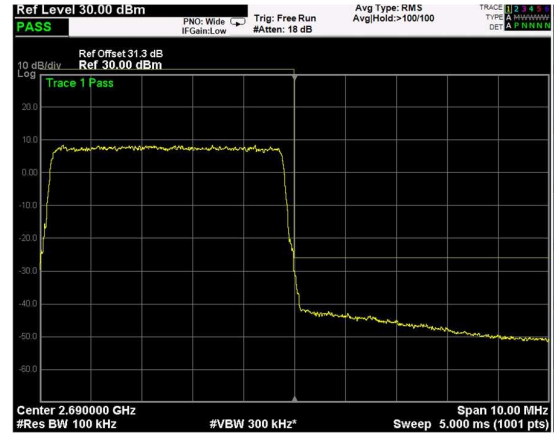


High Band Edge, 2 Carrier,
Modulation: 256QAM, BW=20MHz

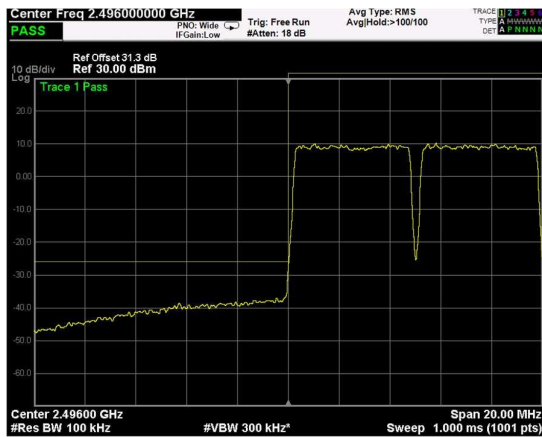
RF PORT 2



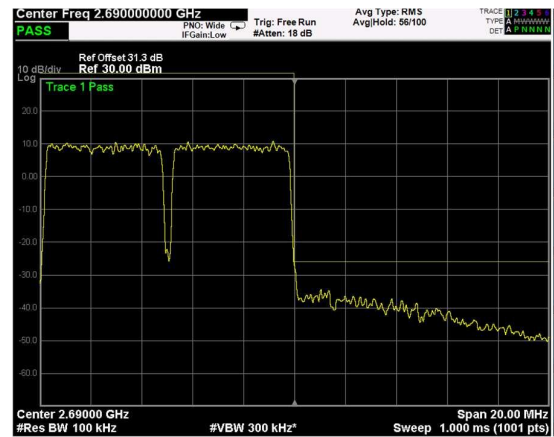
Low Band Edge, 1 Carrier,
Modulation: QPSK, BW=5MHz



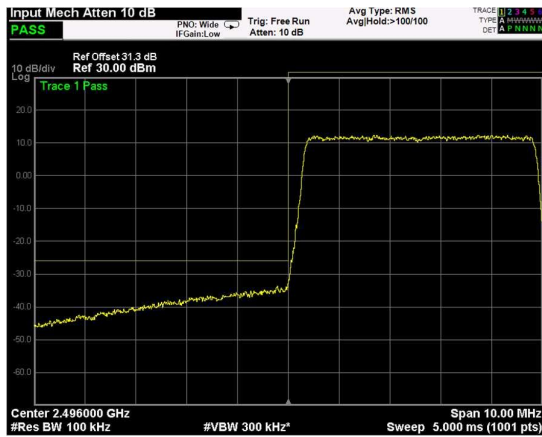
High Band Edge, 1 Carrier,
Modulation: QPSK, BW=5MHz



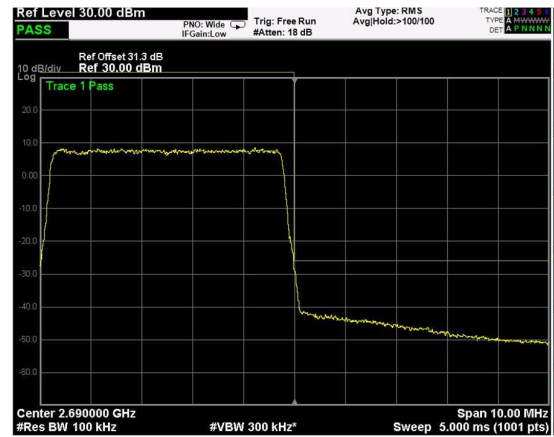
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Modulation: QPSK, BW=5MHz



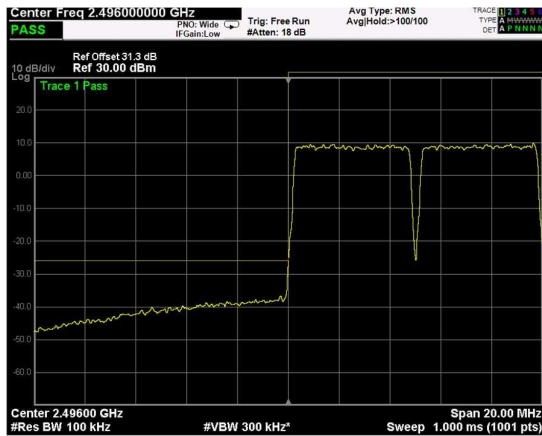
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Modulation: QPSK, BW=5MHz



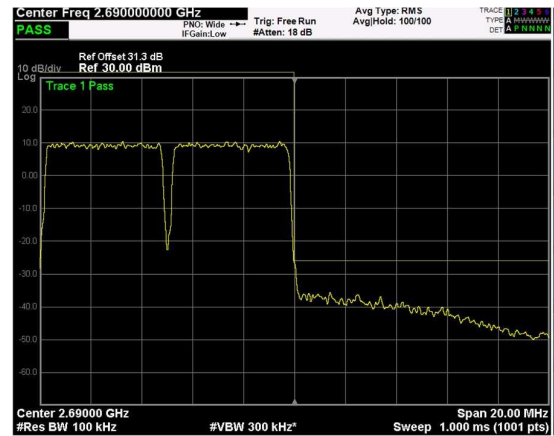
Low Band Edge, 1 Carrier,
 Modulation: 16QAM, BW=5MHz



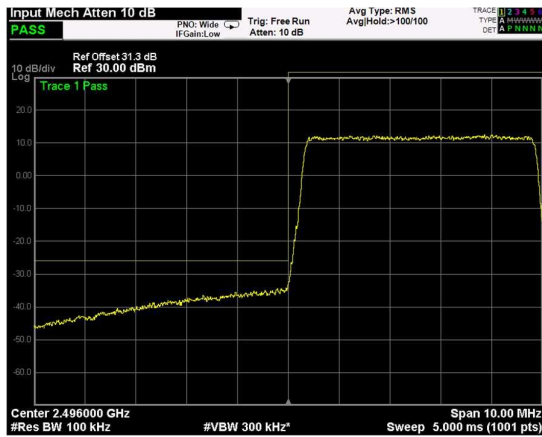
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 Modulation: 16QAM, BW=5MHz



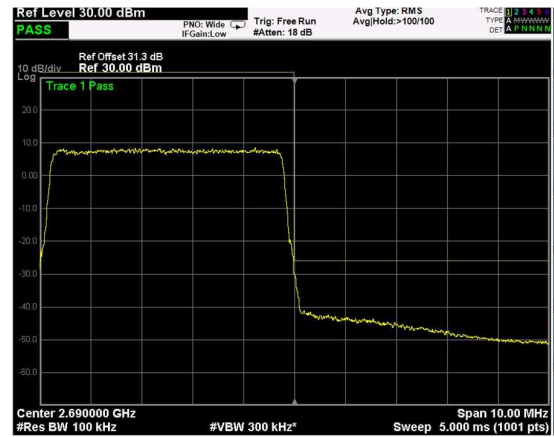
Low Band Edge, 2 Carrier,
 Modulation: 16QAM, BW=5MHz



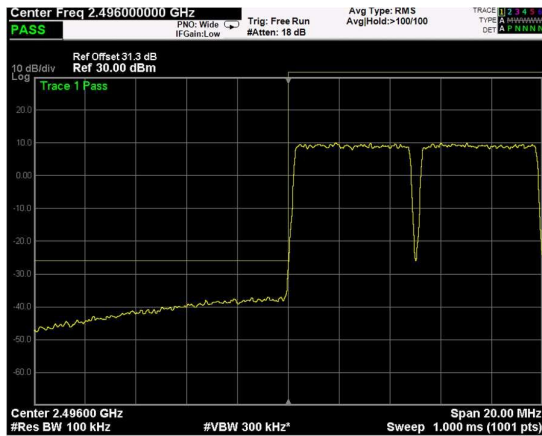
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 Modulation: 16QAM, BW=5MHz



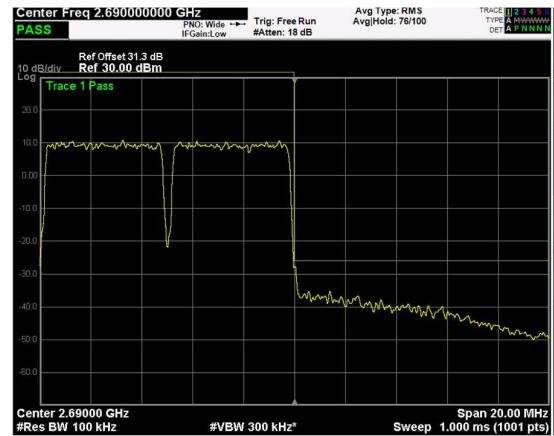
Low Band Edge, 1 Carrier,
Modulation: 64QAM, BW=5MHz



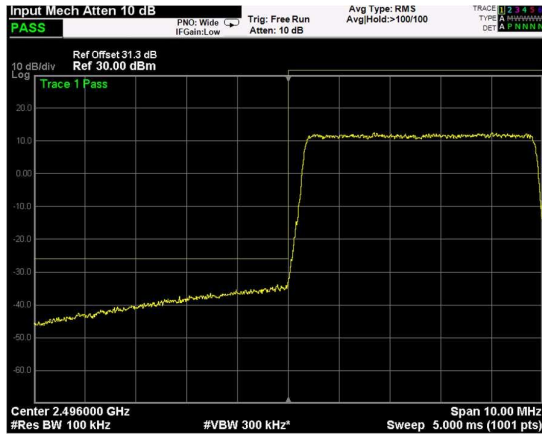
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Modulation: 64QAM, BW=5MHz



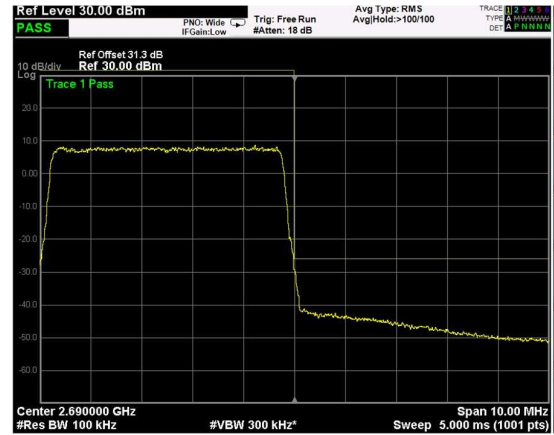
Low Band Edge, 2 Carrier,
Modulation: 64QAM, BW=5MHz



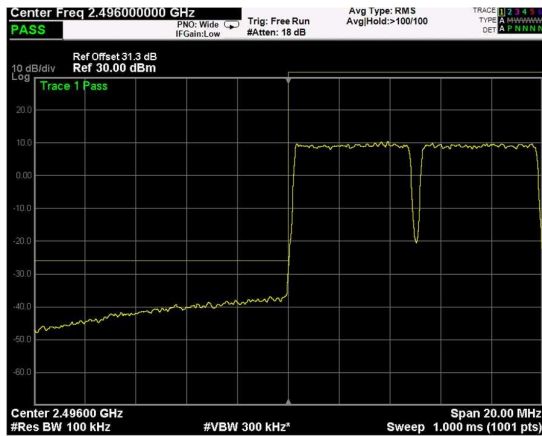
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Modulation: 64QAM, BW=5MHz



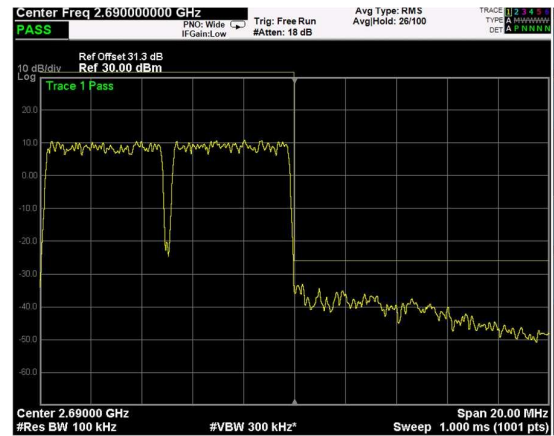
Low Band Edge, 1 Carrier,
 Modulation: 256QAM, BW=5MHz



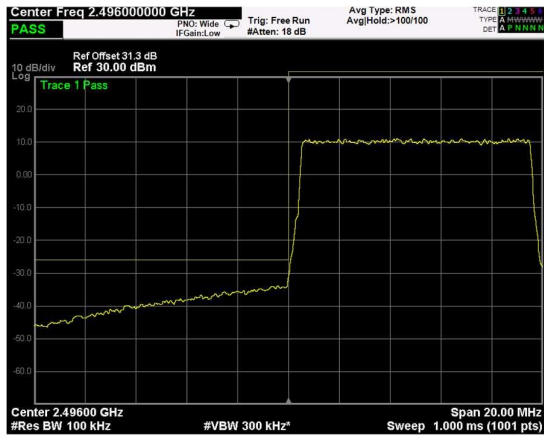
High Band Edge, 1 Carrier,
 Modulation: 256QAM, BW=5MHz



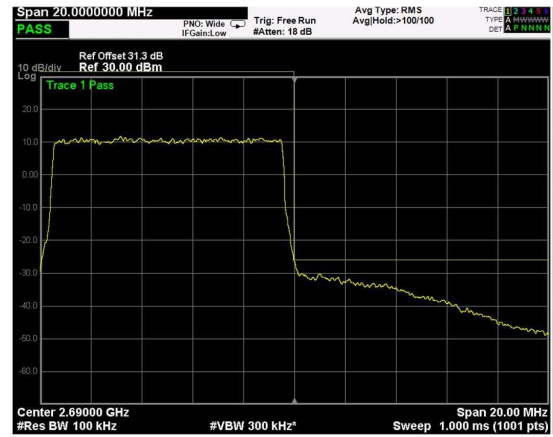
Low Band Edge, 2 Carrier,
 Modulation: 256QAM, BW=5MHz



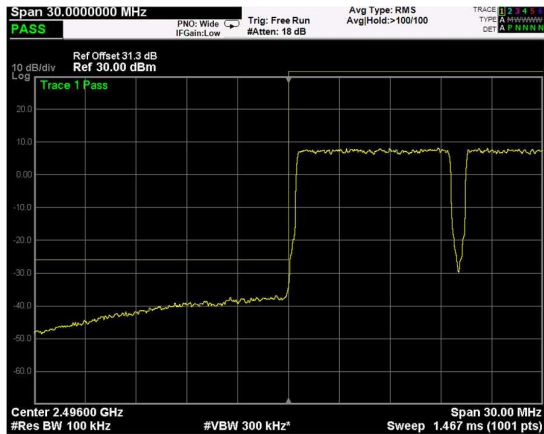
High Band Edge, 2 Carrier,
 Modulation: 256QAM, BW=5MHz



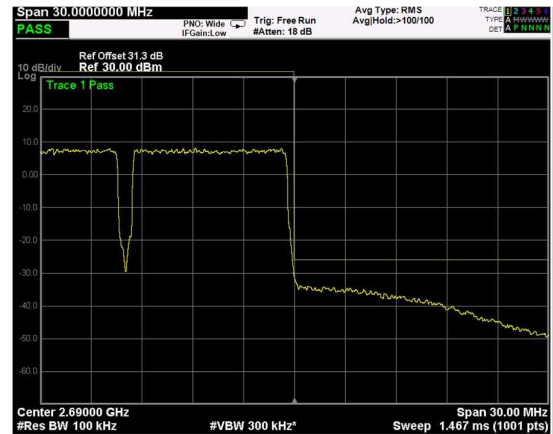
Low Band Edge, 1 Carrier,
 Modulation: QPSK, BW=10MHz



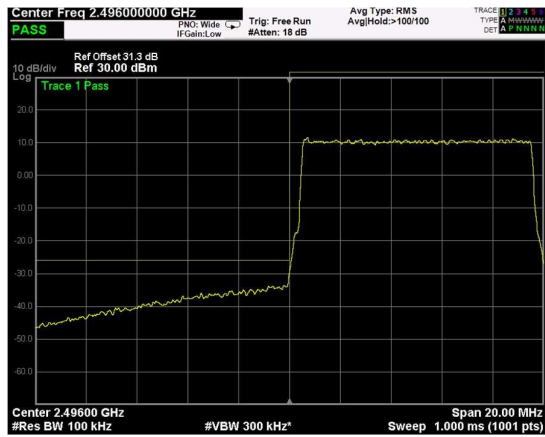
High Band Edge, 1 Carrier,
 Modulation: QPSK, BW=10MHz



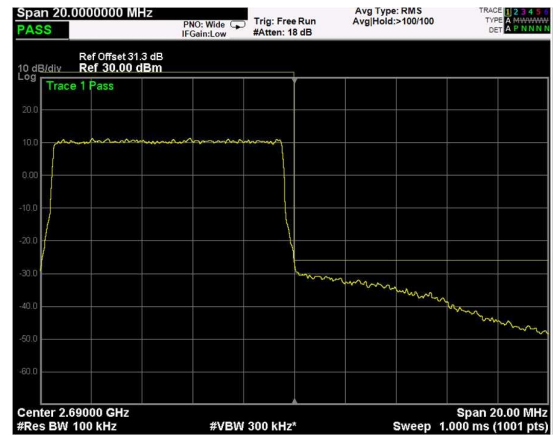
Low Band Edge, 2 Carrier,
 Modulation: QPSK, BW=10MHz



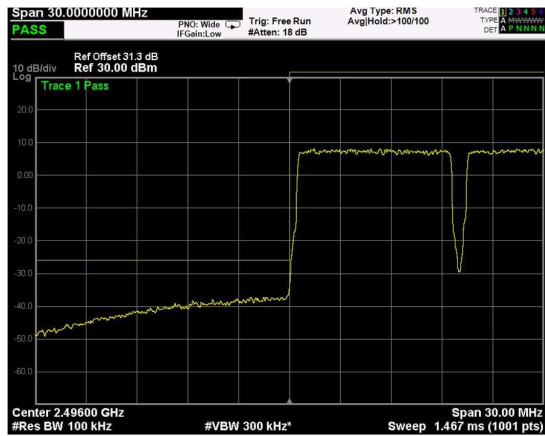
High Band Edge, 2 Carrier,
 Modulation: QPSK, BW=10MHz



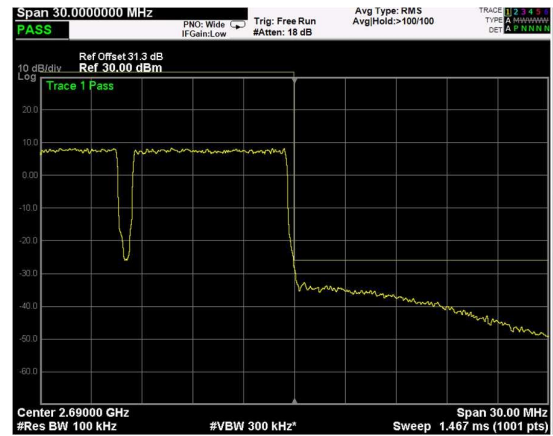
Low Band Edge, 1 Carrier,
Modulation: 16QAM, BW=10MHz



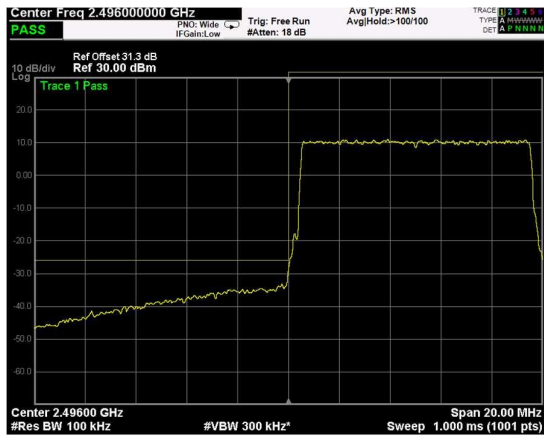
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Modulation: 16QAM, BW=10MHz



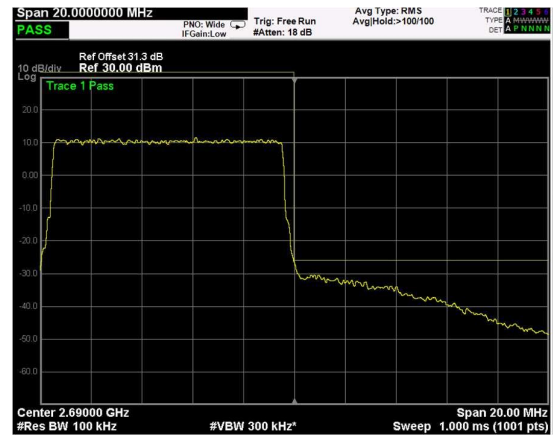
Low Band Edge, 2 Carrier,
Modulation: 16QAM, BW=10MHz



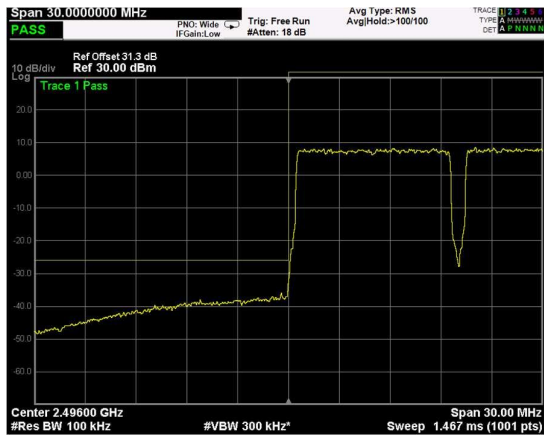
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Modulation: 16QAM, BW=10MHz



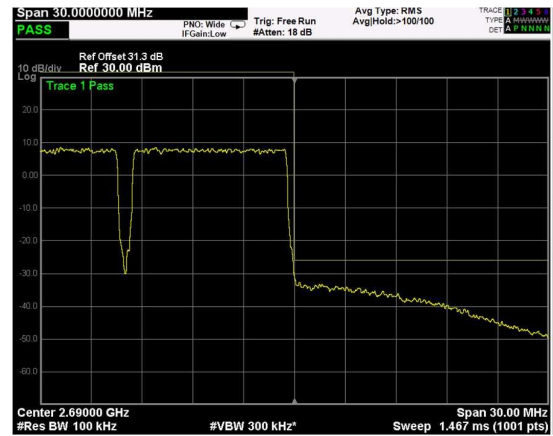
Low Band Edge, 1 Carrier,
Modulation: 64QAM, BW=10MHz



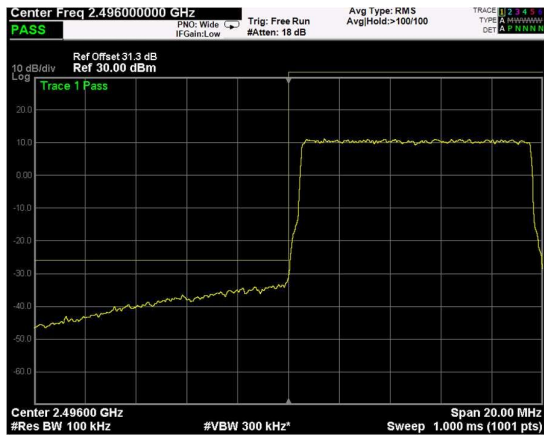
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Modulation: 64QAM, BW=10MHz



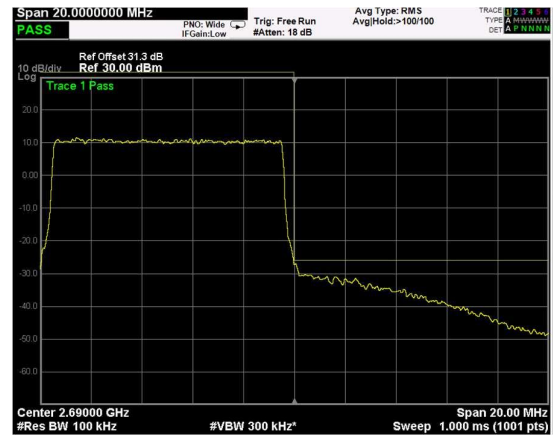
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Modulation: 64QAM, BW=10MHz



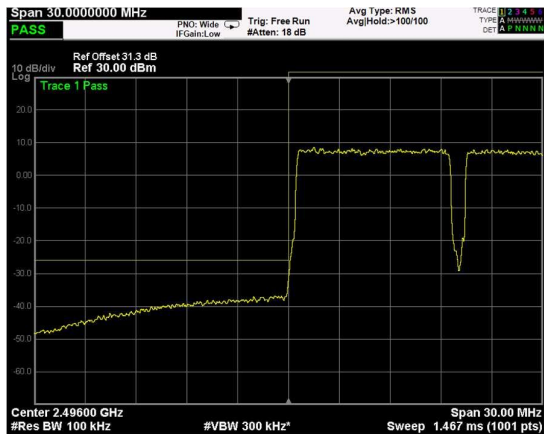
High Band Edge, 2 Carrier,
Modulation: 64QAM, BW=10MHz



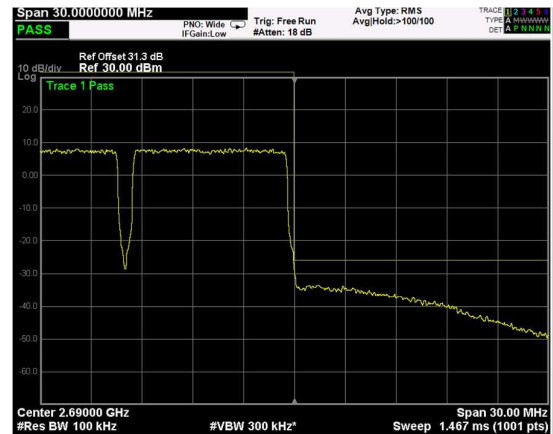
Low Band Edge, 1 Carrier,
Modulation: 256QAM, BW=10MHz



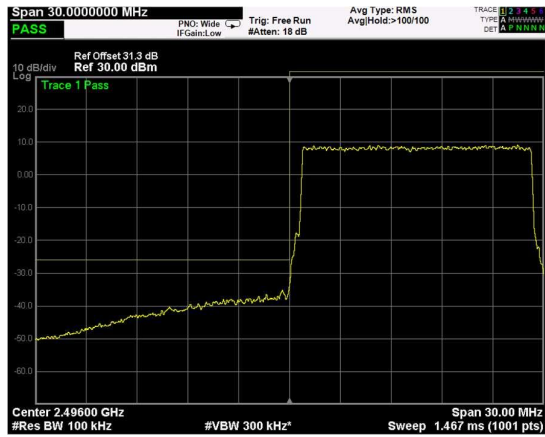
High Band Edge, 1 Carrier,
Modulation: 256QAM, BW=10MHz



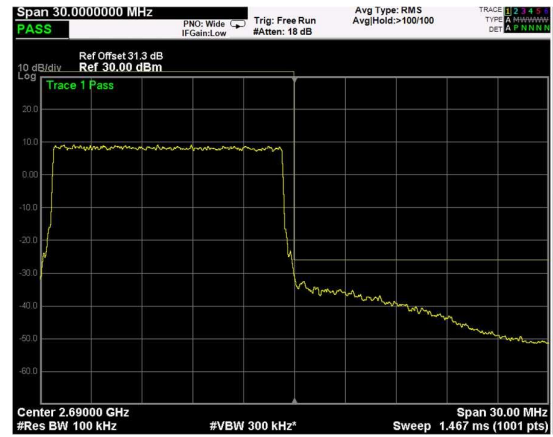
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Modulation: 256QAM, BW=10MHz



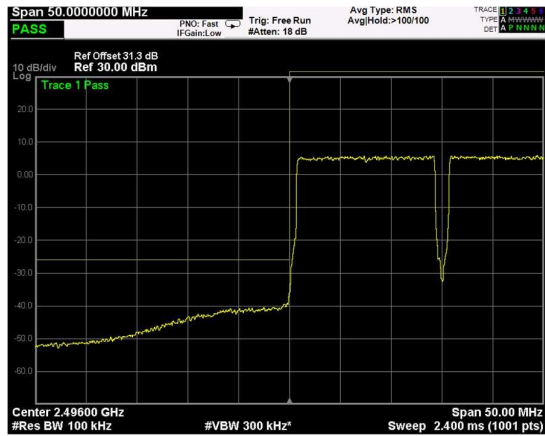
High Band Edge, 2 Carrier,
Modulation: 256QAM, BW=10MHz



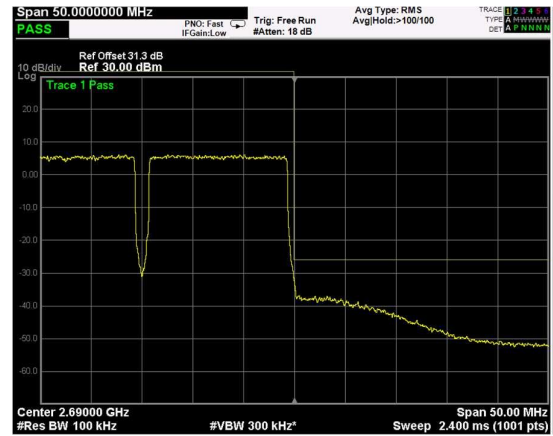
Low Band Edge, 1 Carrier,
Modulation: QPSK, BW=15MHz



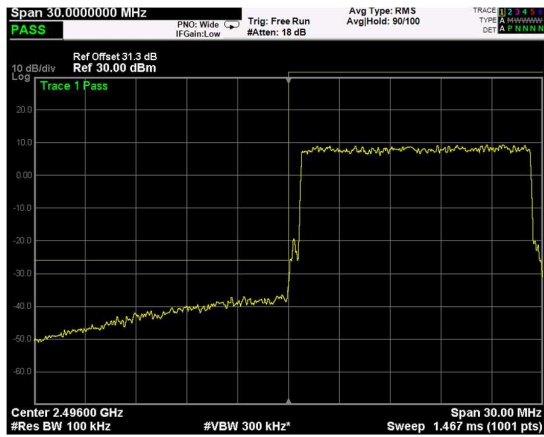
High Band Edge, 1 Carrier,
Modulation: QPSK, BW=15MHz



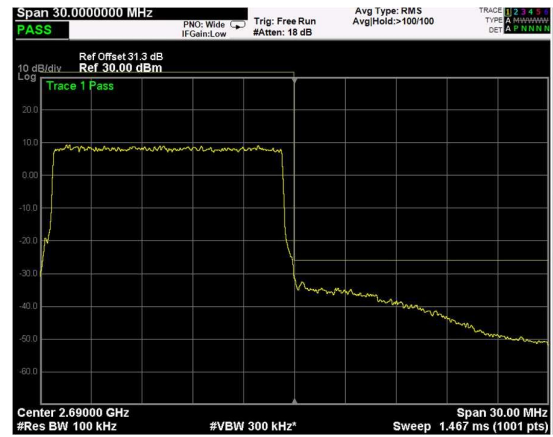
Low Band Edge, 2 Carrier,
Modulation: QPSK, BW=15MHz



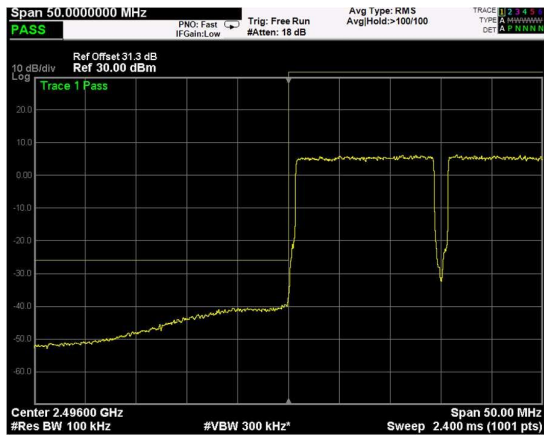
High Band Edge, 2 Carrier,
Modulation: QPSK, BW=15MHz



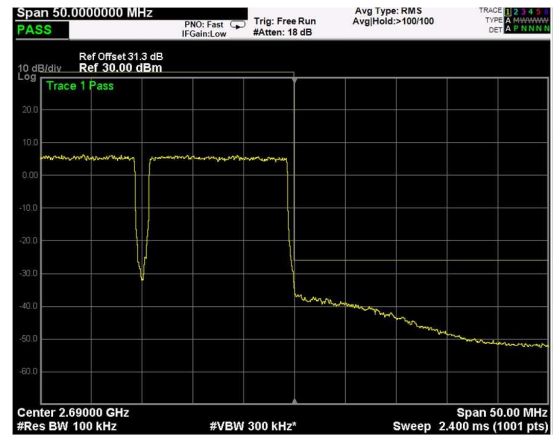
Low Band Edge, 1 Carrier,
Modulation: 16QAM, BW=15MHz



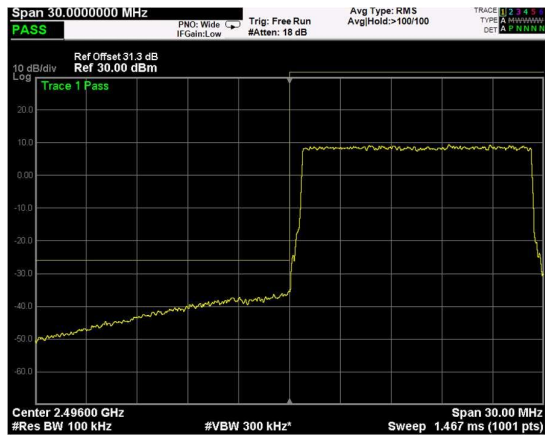
High Band Edge, 1 Carrier,
Modulation: 16QAM, BW=15MHz



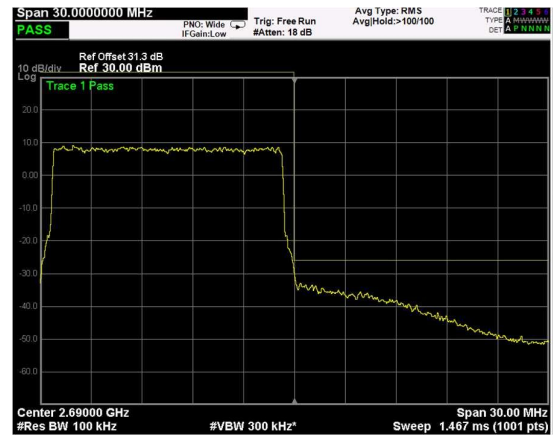
Low Band Edge, 2 Carrier,
Modulation: 16QAM, BW=15MHz



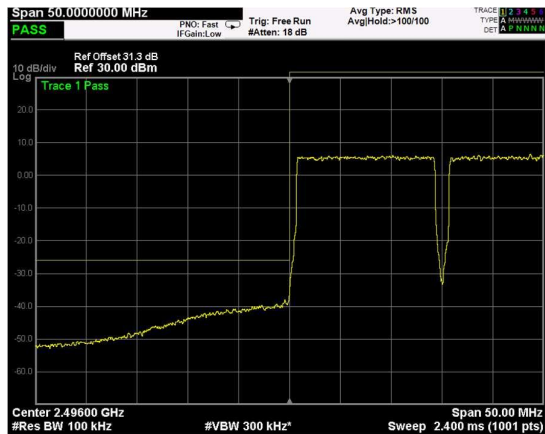
High Band Edge, 2 Carrier,
Modulation: 16QAM, BW=15MHz



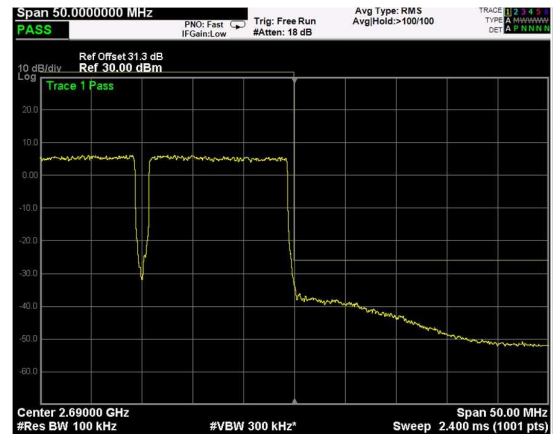
Low Band Edge, 1 Carrier,
Modulation: 64QAM, BW=15MHz



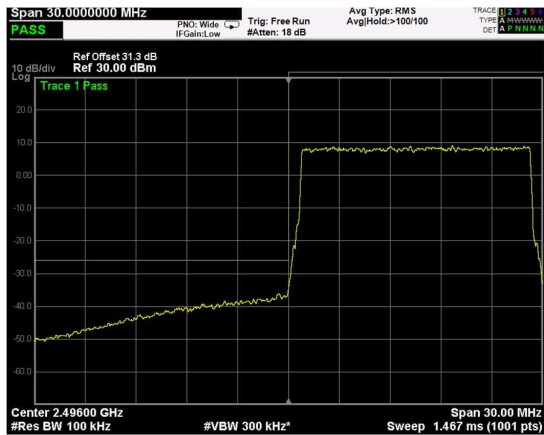
High Band Edge, 1 Carrier,
Modulation: 64QAM, BW=15MHz



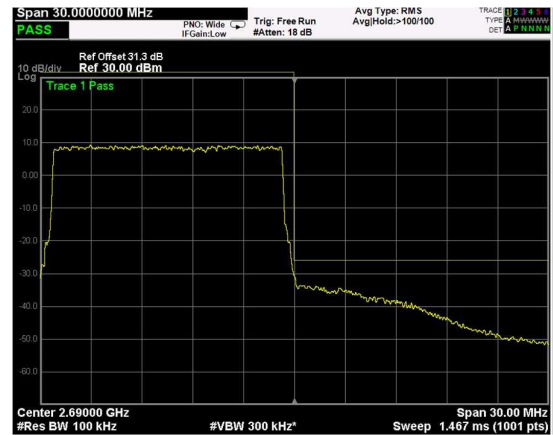
Low Band Edge, 2 Carrier,
Modulation: 64QAM, BW=15MHz



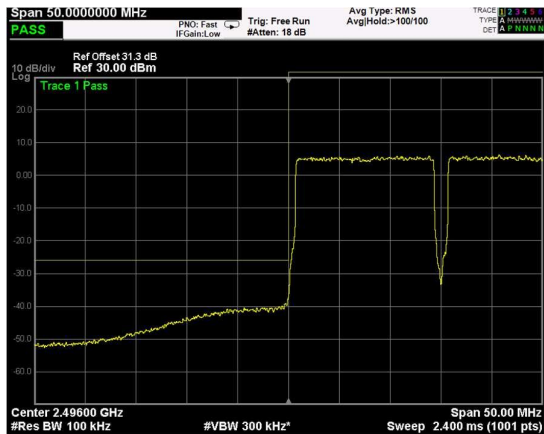
High Band Edge, 2 Carrier,
Modulation: 64QAM, BW=15MHz



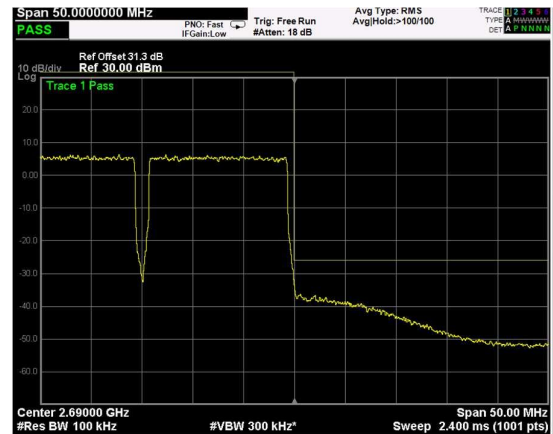
Low Band Edge, 1 Carrier,
Modulation: 256QAM, BW=15MHz



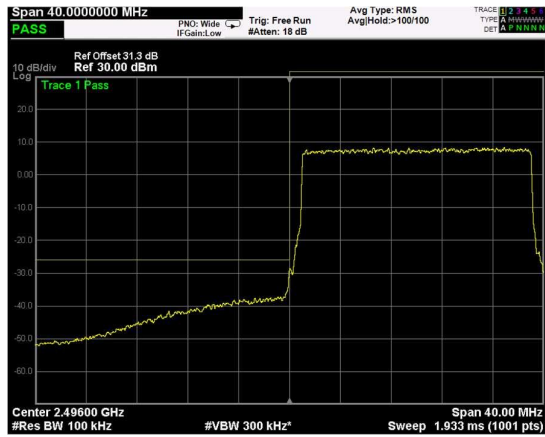
High Band Edge, 1 Carrier,
Modulation: 256QAM, BW=15MHz



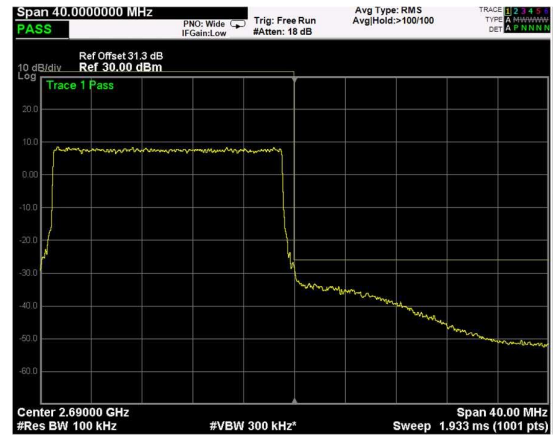
Low Band Edge, 2 Carrier,
Modulation: 256QAM, BW=15MHz



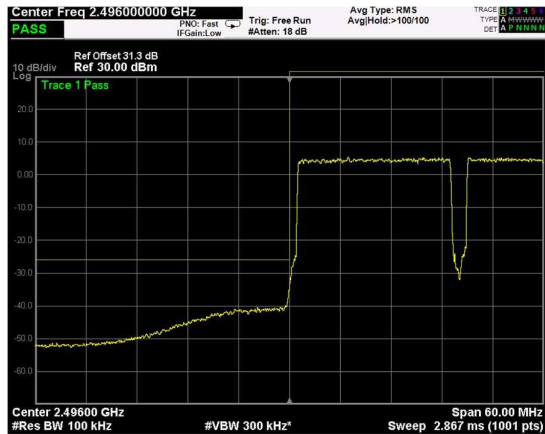
High Band Edge, 2 Carrier,
Modulation: 256QAM, BW=15MHz



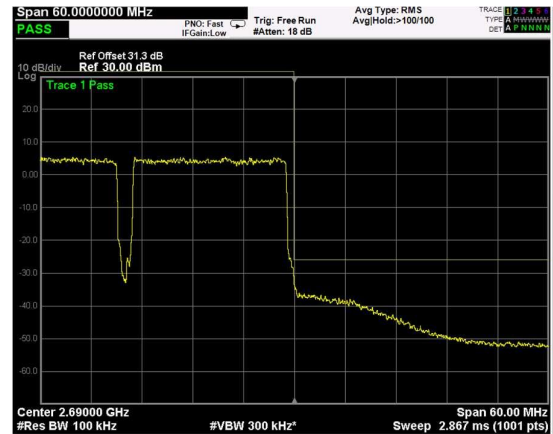
Low Band Edge, 1 Carrier,
Modulation: QPSK, BW=20MHz



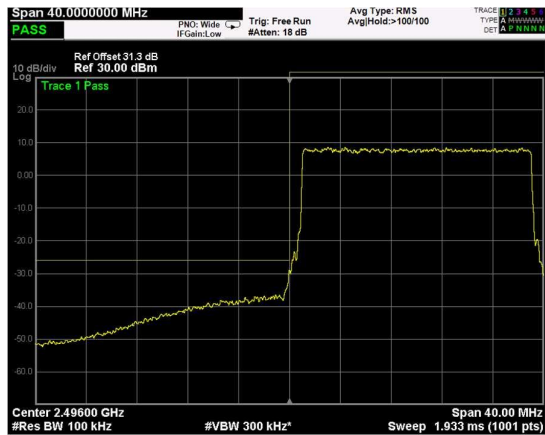
High Band Edge, 1 Carrier,
Modulation: QPSK, BW=20MHz



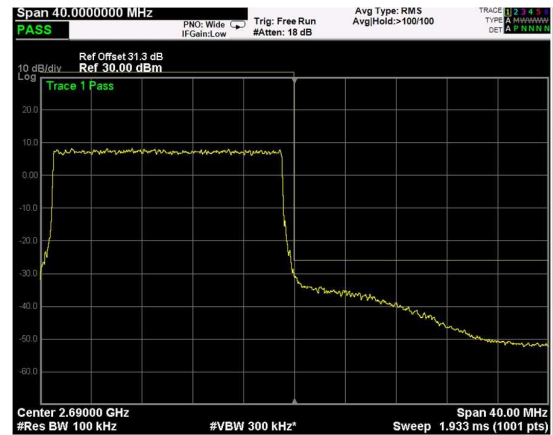
Low Band Edge, 2 Carrier,
Modulation: QPSK, BW=20MHz



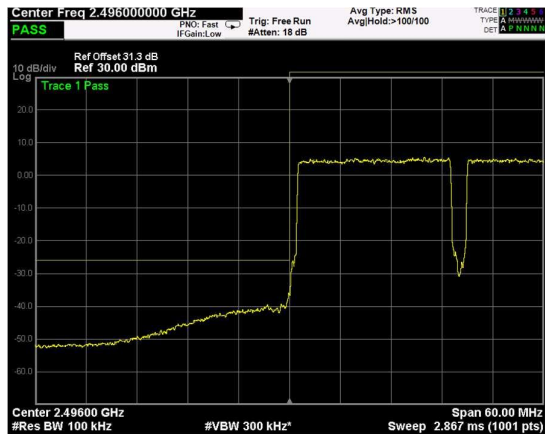
High Band Edge, 2 Carrier,
Modulation: QPSK, BW=20MHz



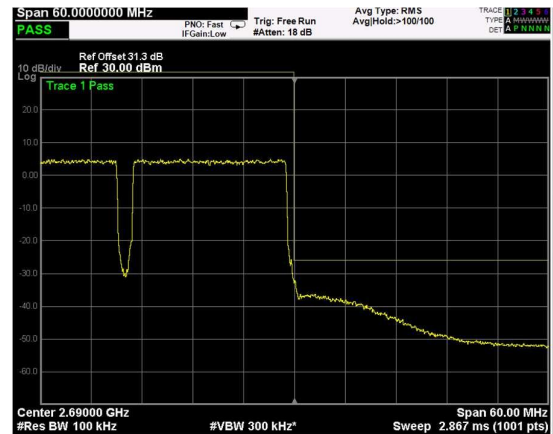
Low Band Edge, 1 Carrier,
Modulation: 16QAM, BW=20MHz



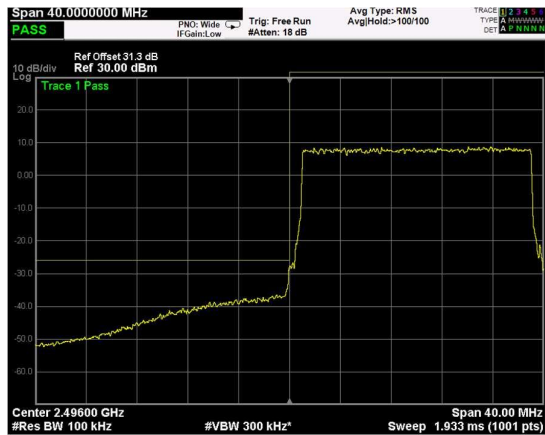
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Modulation: 16QAM, BW=20MHz



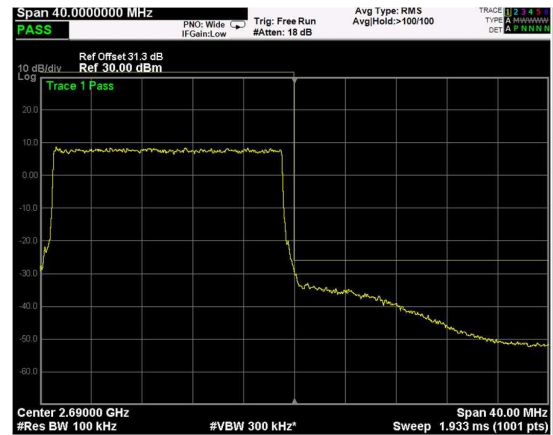
Low Band Edge, 2 Carrier,
Modulation: 16QAM, BW=20MHz



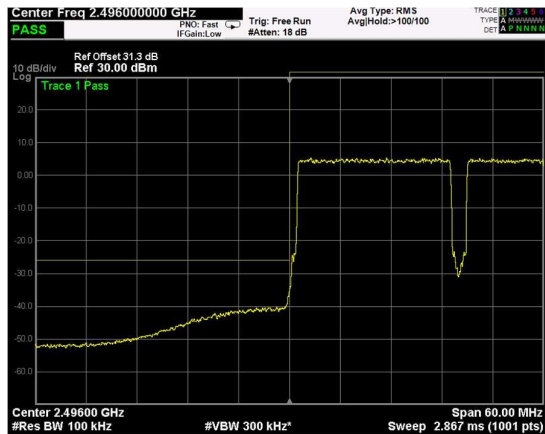
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Modulation: 16QAM, BW=20MHz



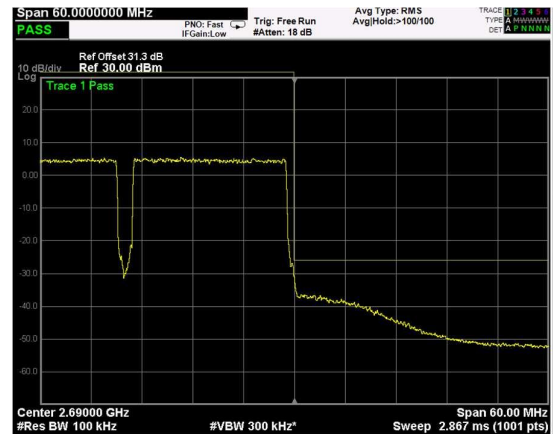
Low Band Edge, 1 Carrier,
Modulation: 64QAM, BW=20MHz



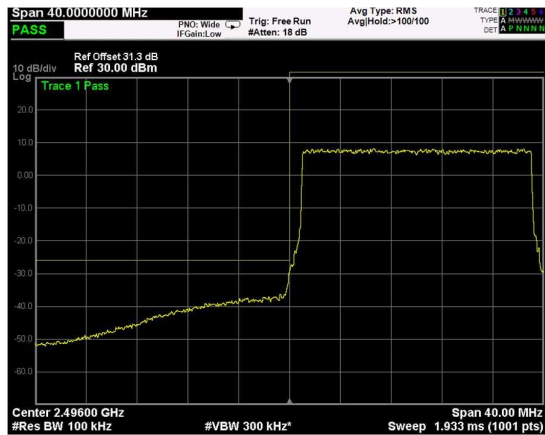
High Band Edge, 1 Carrier,
Modulation: 64QAM, BW=20MHz



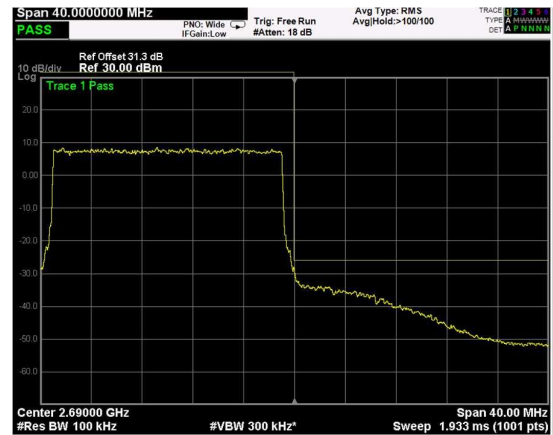
Low Band Edge, 2 Carrier,
Modulation: 64QAM, BW=20MHz



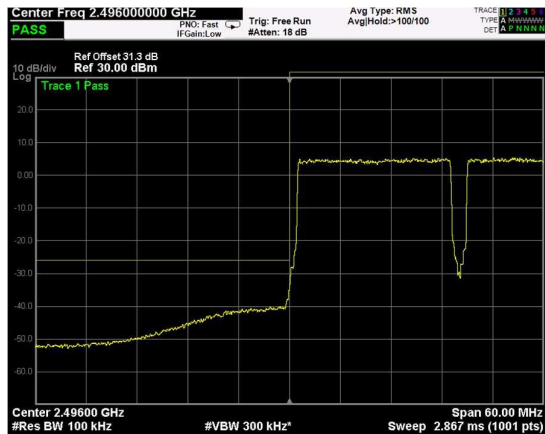
High Band Edge, 2 Carrier,
Modulation: 64QAM, BW=20MHz



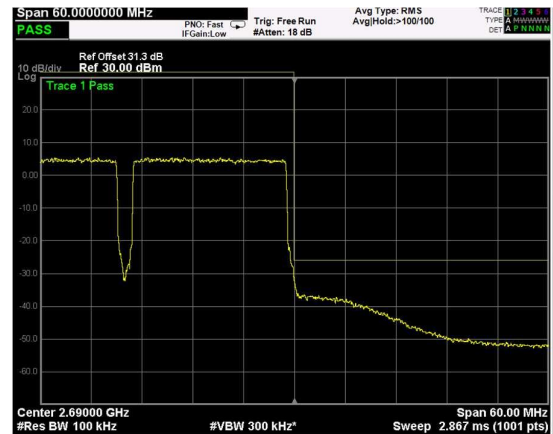
Low Band Edge, 1 Carrier,
Modulation: 256QAM, BW=20MHz



High Band Edge, 1 Carrier,
Modulation: 256QAM, BW=20MHz



Low Band Edge, 2 Carrier,
Modulation: 256QAM, BW=20MHz



High Band Edge, 2 Carrier,
Modulation: 256QAM, BW=20MHz

Clause 27.53(m) Radiated Spurious emissions

(m) For BRS and EBS stations, the power of any emissions outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) measured in watts in accordance with the standards below. If a licensee has multiple contiguous channels, out-of-band emissions shall be measured from the upper and lower edges of the contiguous channels.

(2) For digital base stations, the attenuation shall be not less than $43 + 10 \log (P)$ dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS No. 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Provided that a documented interference complaint cannot be mutually resolved between the parties prior to the applicable deadline, then the following additional attenuation requirements shall apply:

(6) *Measurement procedure.* Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). 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. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

Test date: 10/21/2019 to 12/13/2019

Test results: Pass

Special notes

Clause 27.53(m) Radiated spurious emissions, continued

Test data

The D.U.T. was positioned according to the radiated emissions set-up

The D.U.T. antenna connector was terminated by a 50 Ω shielded dummy load.

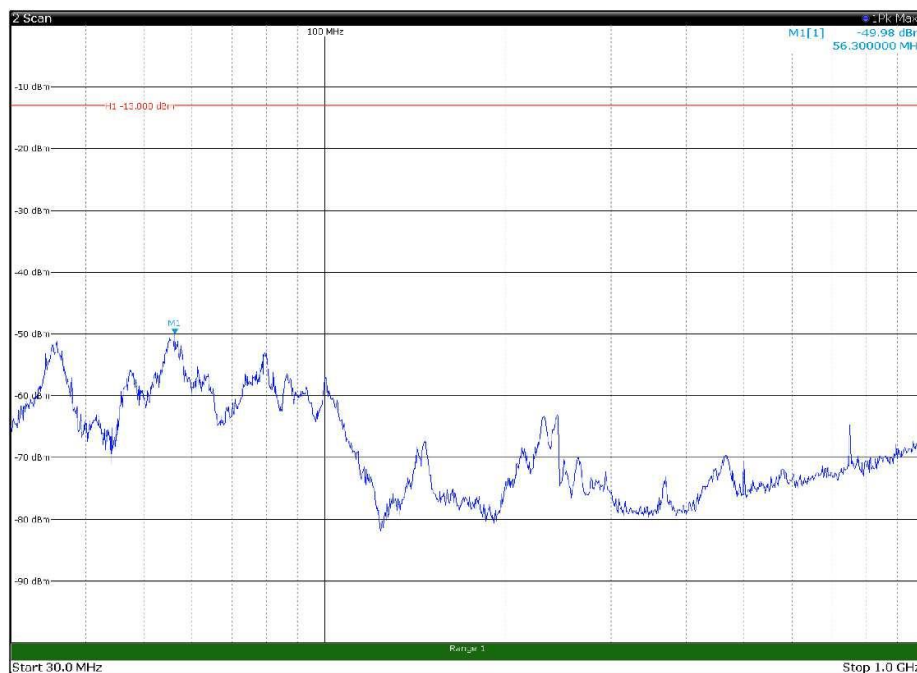
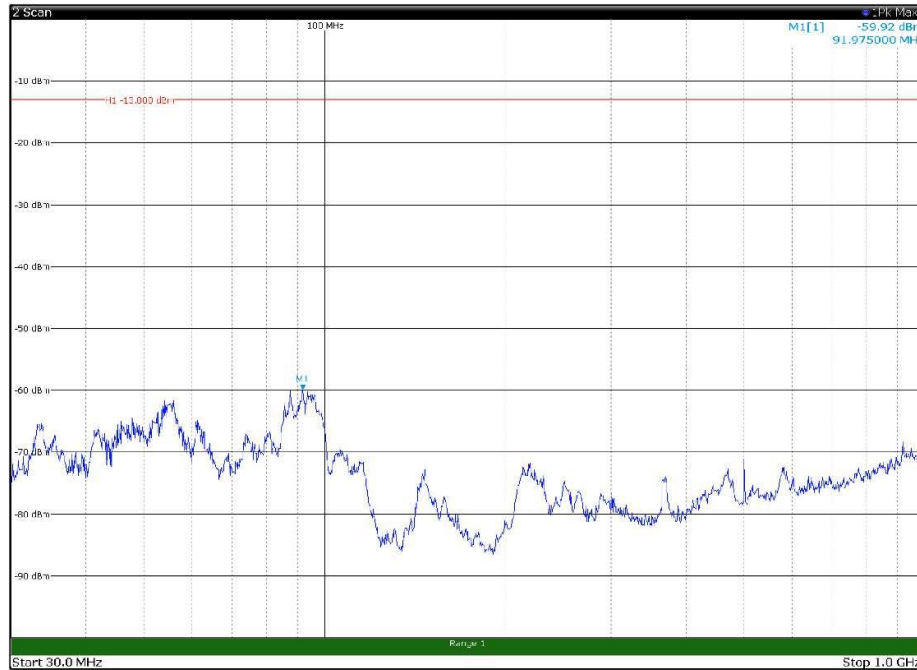
The spectrum was searched from 30 MHz to 1 GHz (RBW 100 kHz) & 1 GHz (RBW 1 MHz) to the tenth harmonic of the carrier.

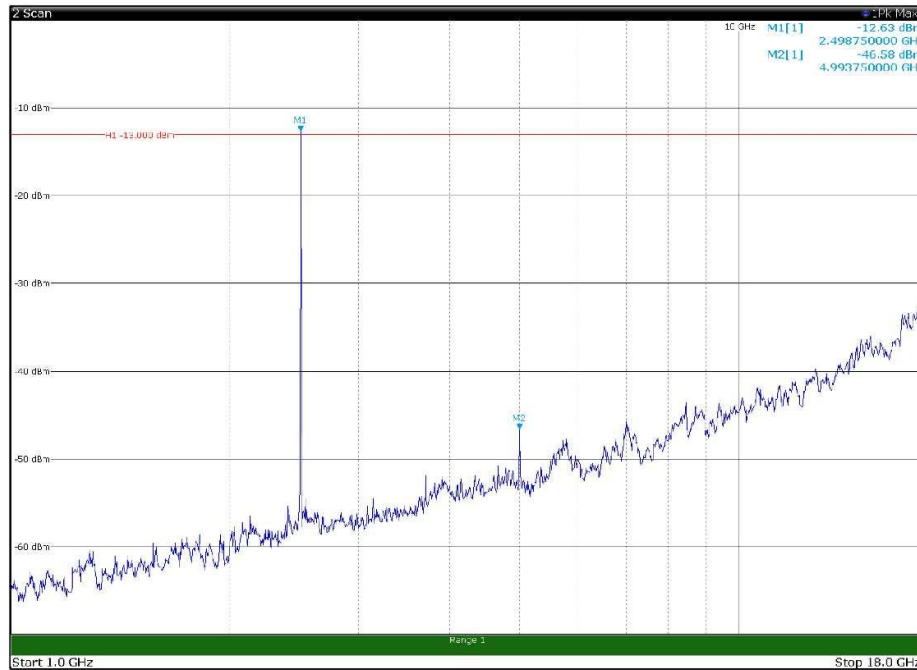
There were no emissions detected above the noise floor which was at least 20 dB below the specification limit.

Spurious emissions measurement results:

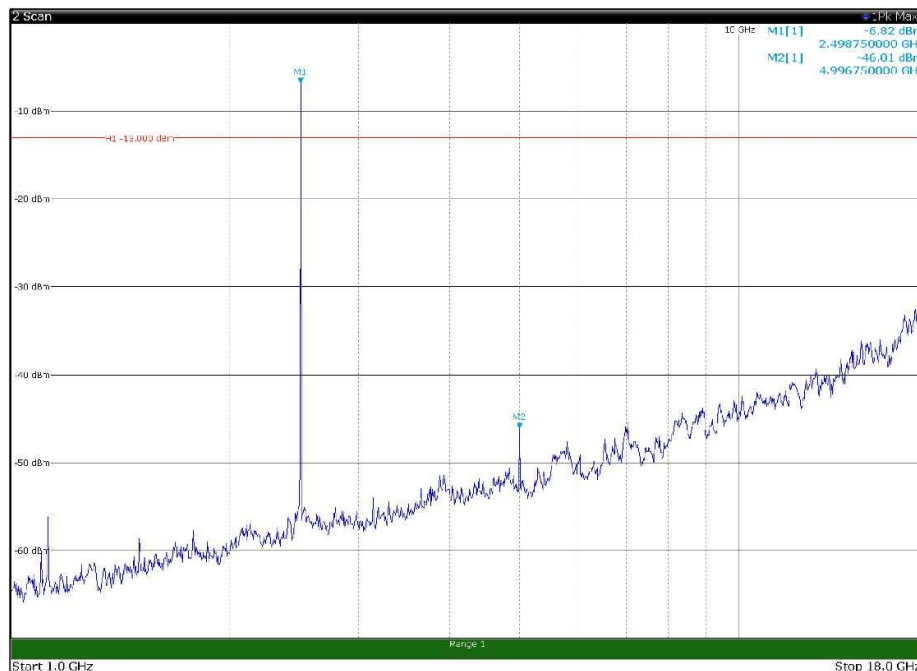
Frequency (MHz)	Polarization. V/H	Field strength (dBm)	Limit (dBm)	Margin (dB)
Low channel				
First Channel	V/H	Negligible	-13	
Mid channel				
2007,5	V/H	Negligible	-13	
High channel				
Last Channel	V/H	Negligible	-13	

Note: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable.





Channel: BOTTOM, Modulation: QPSK,
BW=5MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



Channel: BOTTOM, Modulation: QPSK,
BW=5MHz, Range: 1GHz - 18GHz, Polarization: Vertical

