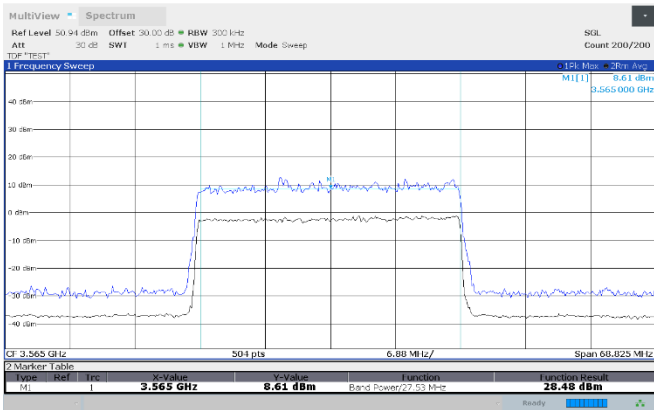


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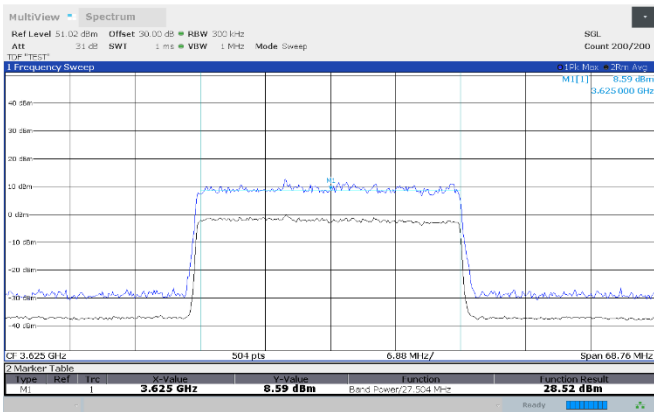
Testing
FCC §96.41(g) Peak to Average Power Ratio
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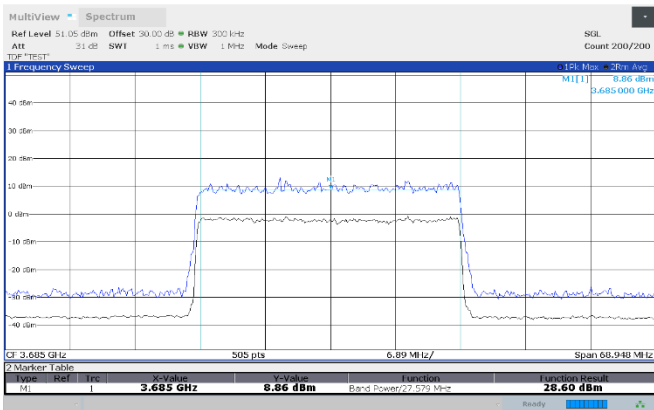
PAPR, TX: 3565 MHz, BW: 30MHz, MOD: 16QAM



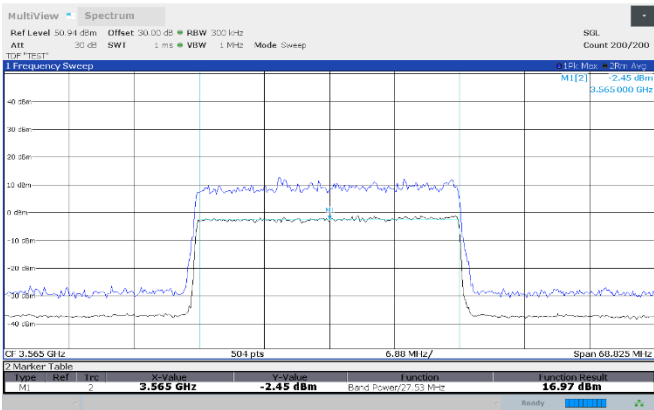
PAPR, TX: 3625 MHz, BW: 30MHz, MOD: 16QAM



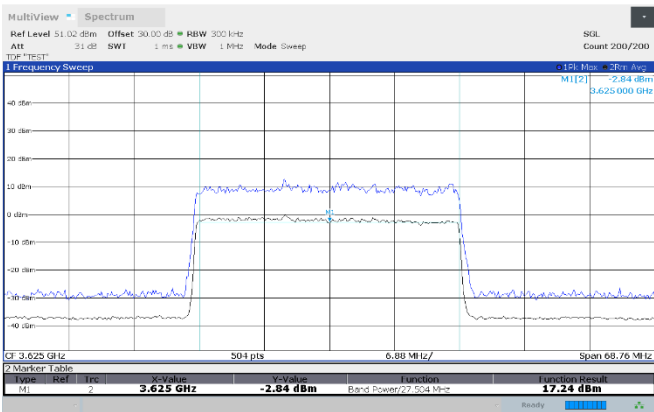
PAPR, TX: 3685 MHz, BW: 30MHz, MOD: 16QAM



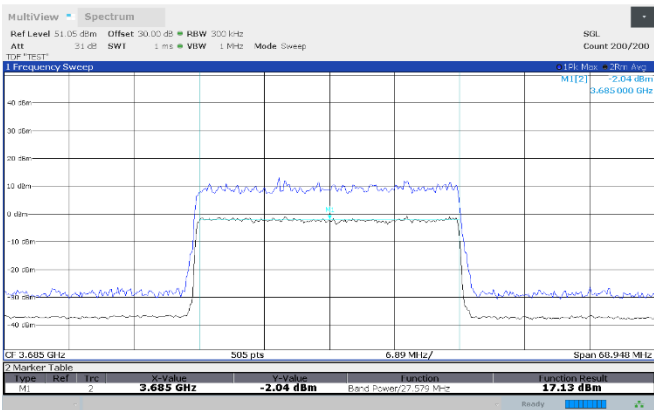
PAPR, TX: 3565 MHz, BW: 30MHz, MOD: 16QAM



PAPR, TX: 3625 MHz, BW: 30MHz, MOD: 16QAM

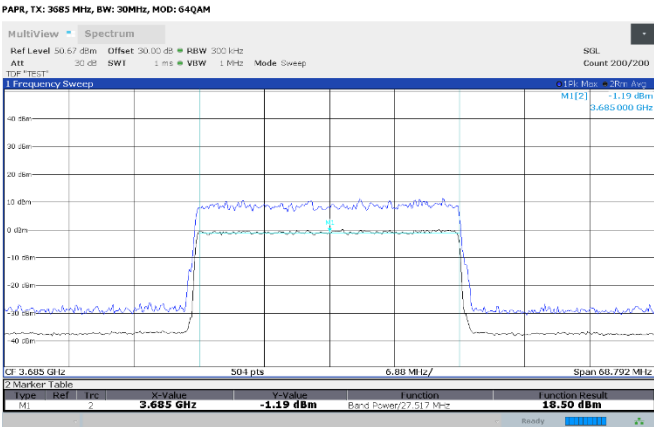
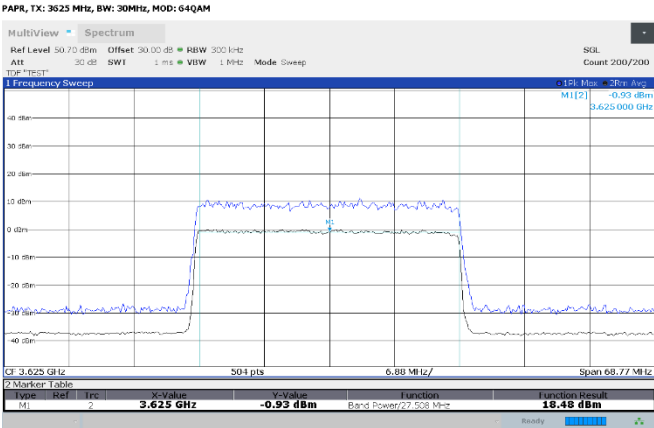
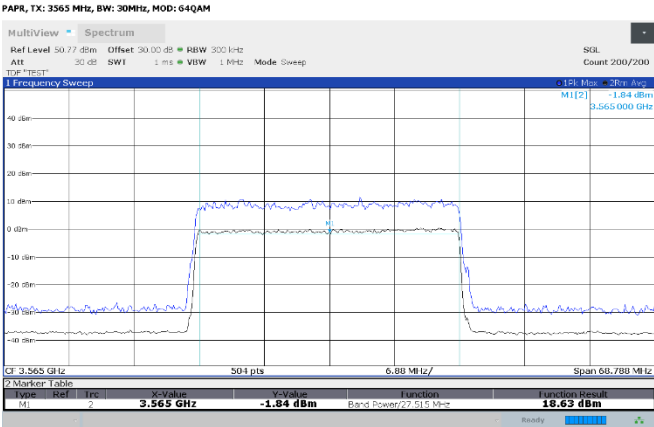
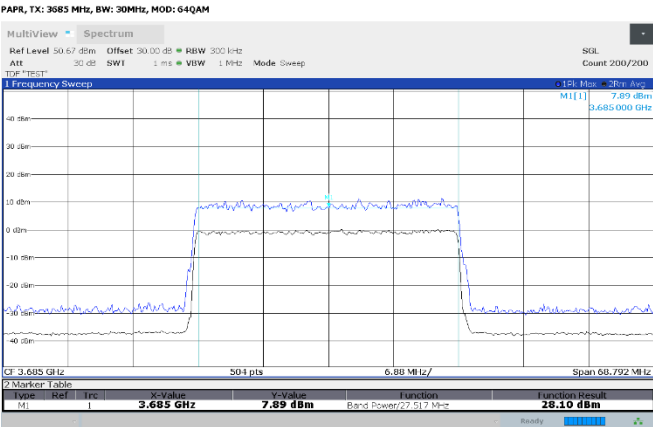
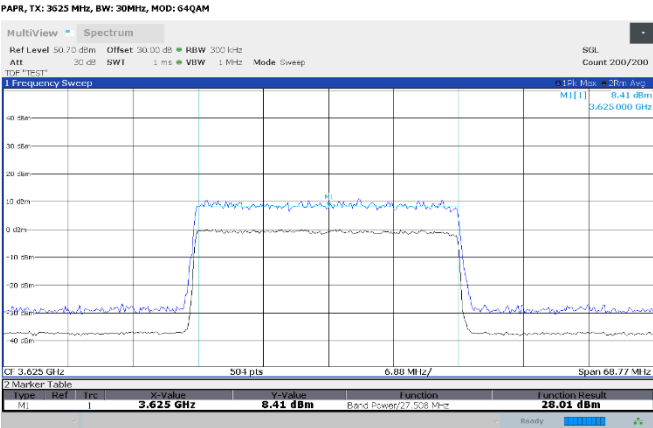
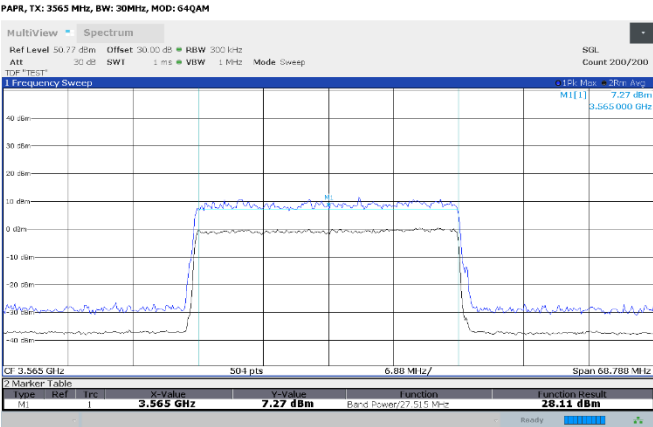


PAPR, TX: 3685 MHz, BW: 30MHz, MOD: 16QAM



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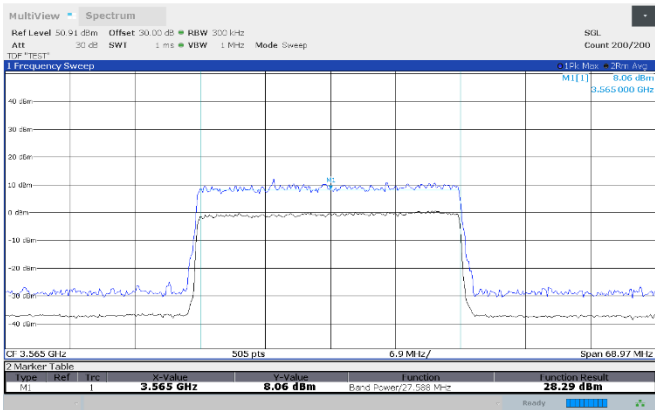


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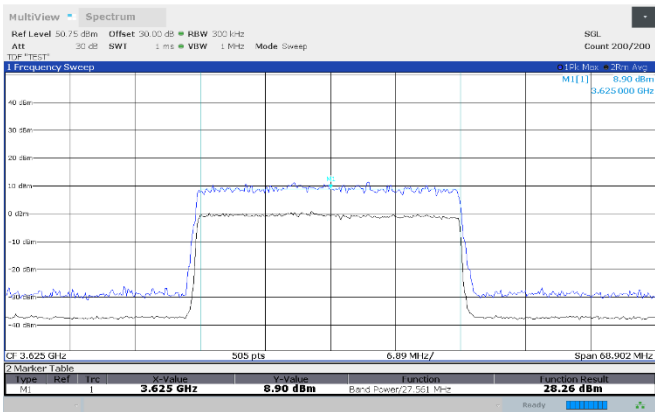
Testing
FCC §96.41(g) Peak to Average Power Ratio
FCC Part 96



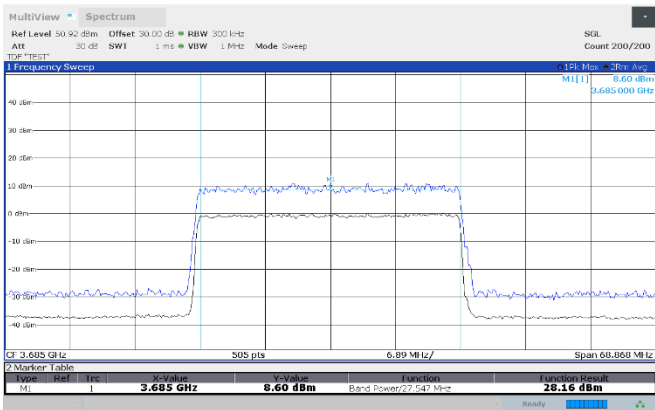
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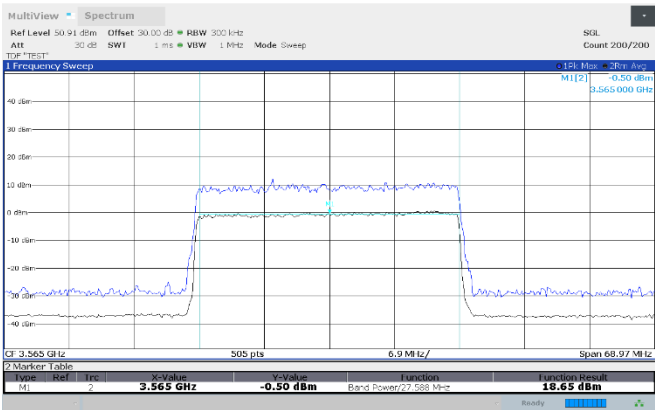
PAPR, TX: 3625 MHz, BW: 30MHz, MOD: 256QAM



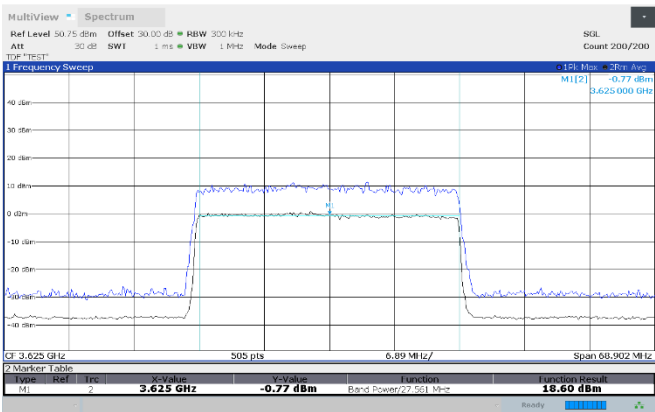
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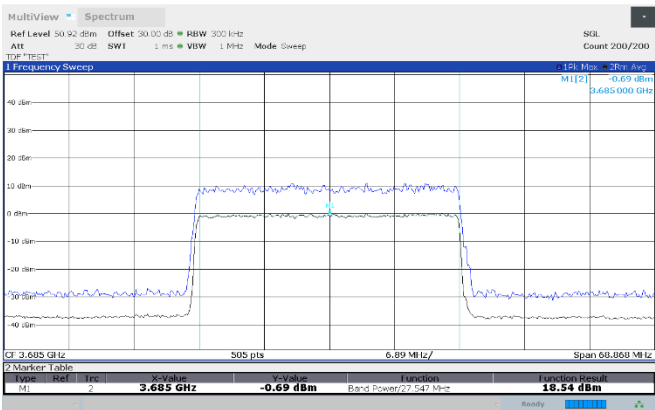
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PAPR, TX: 3625 MHz, BW: 30MHz, MOD: 256QAM

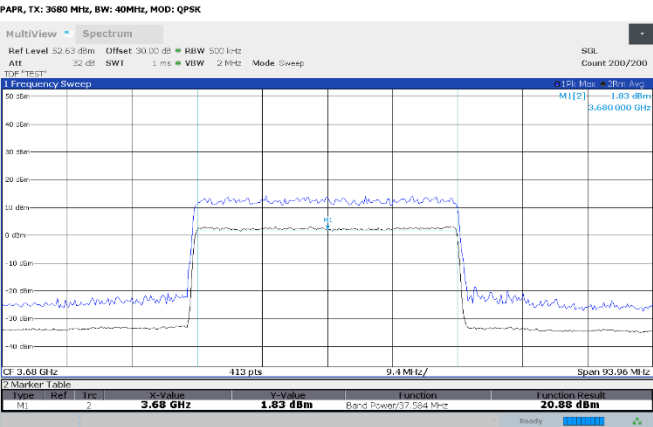
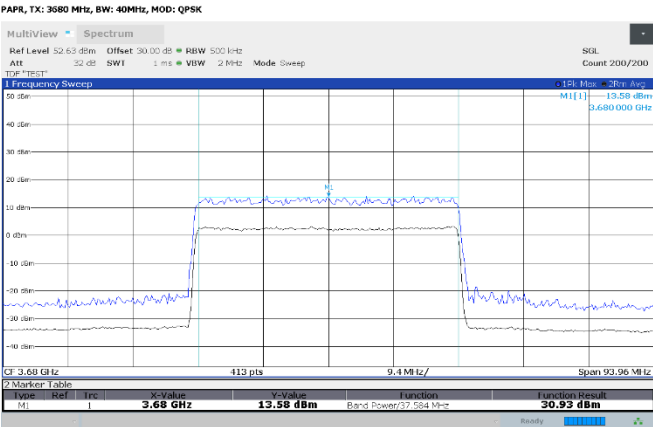
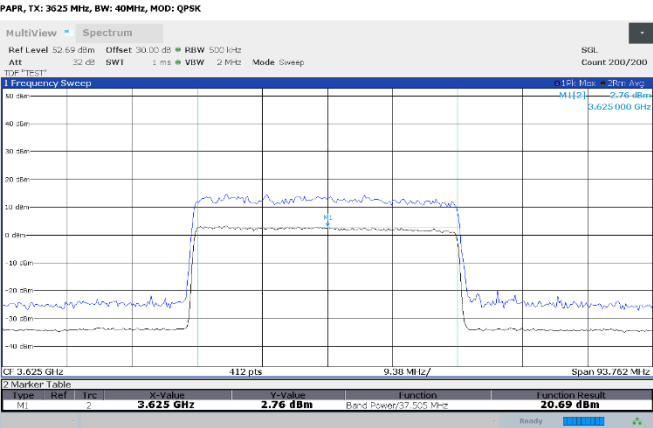
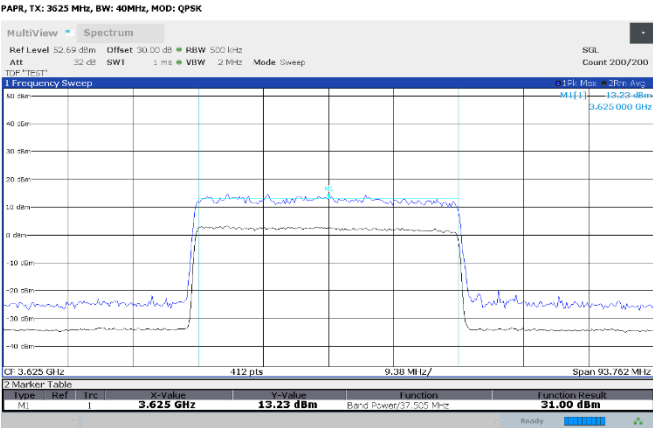
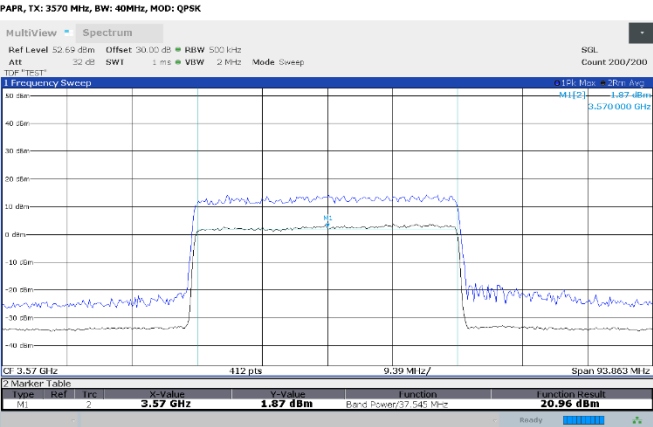
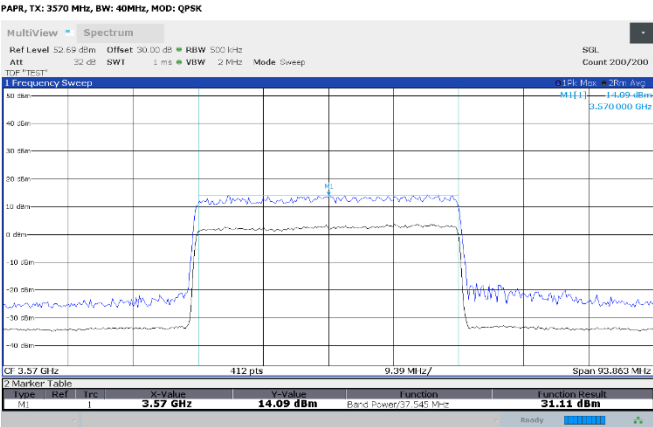


PAPR, TX: 3685 MHz, BW: 30MHz, MOD: 256QAM



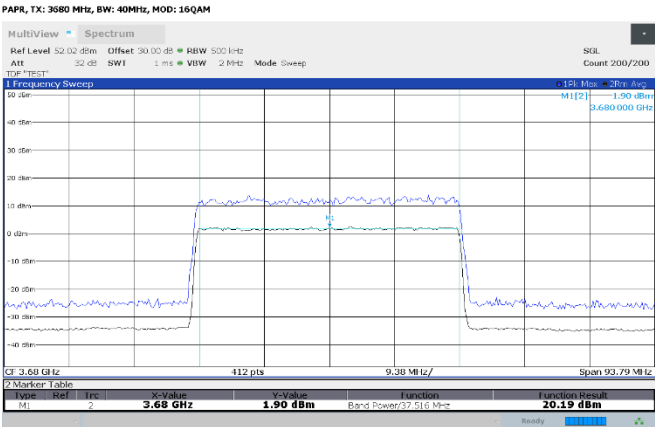
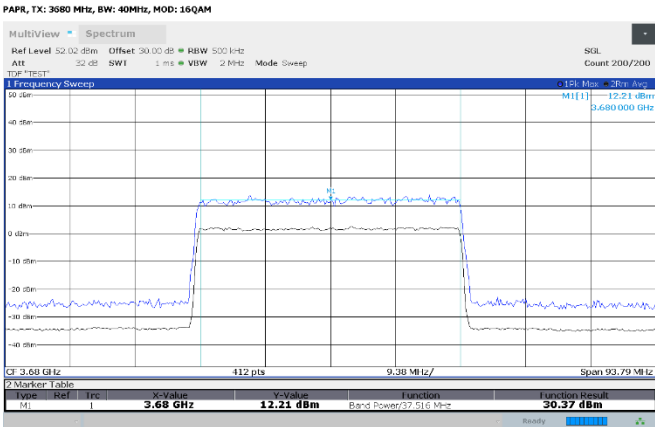
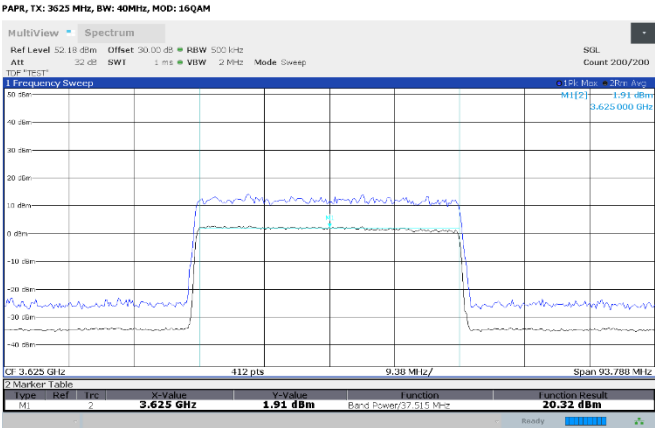
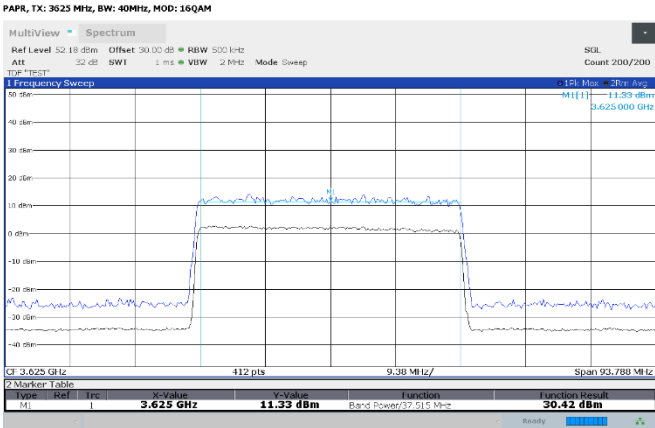
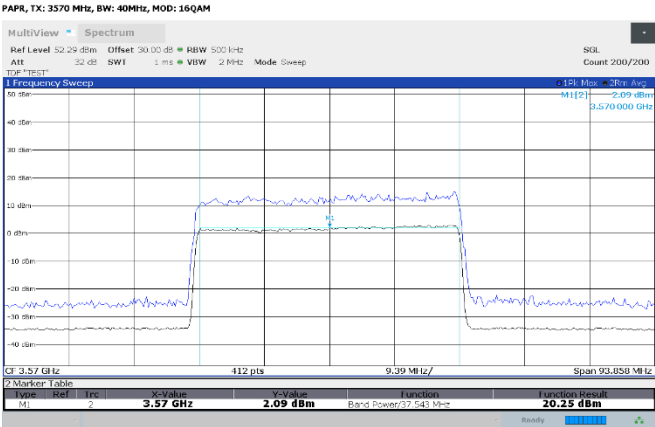
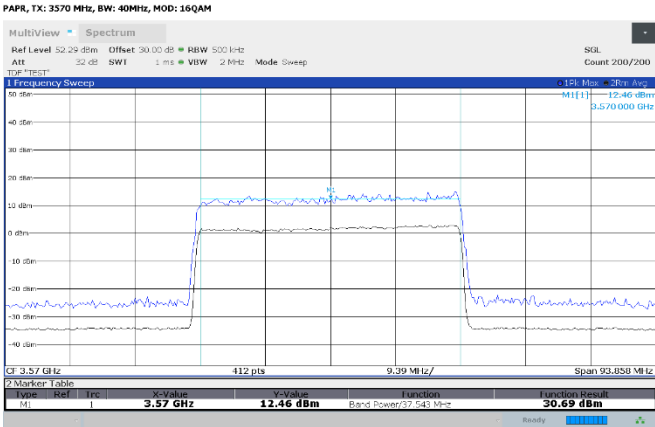
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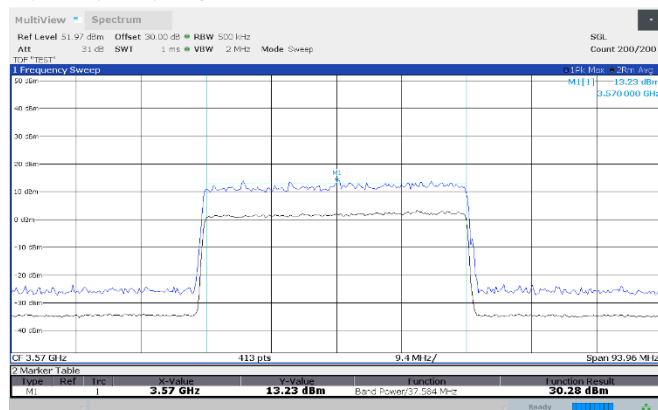


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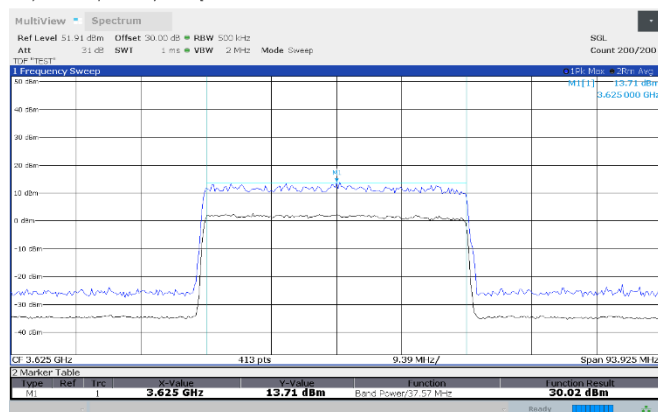
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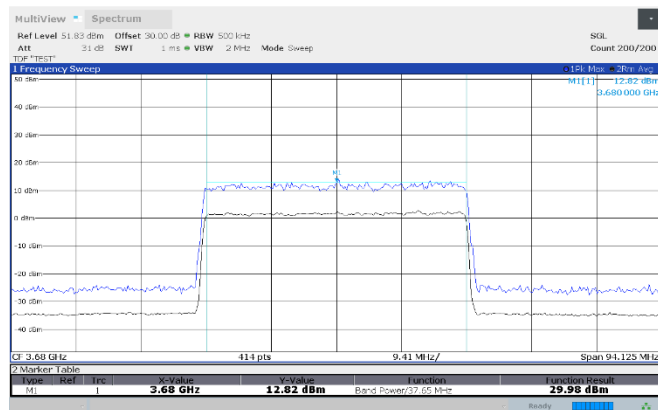
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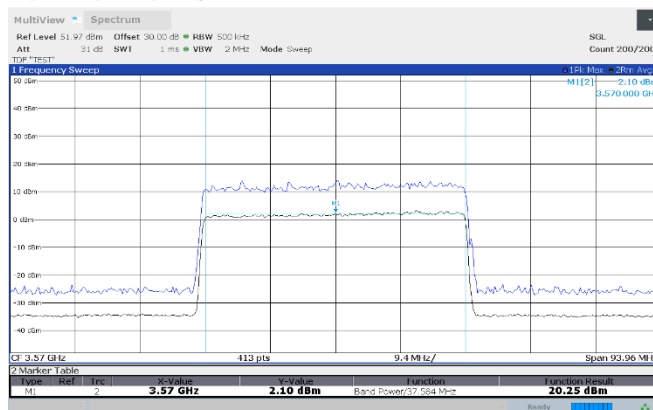
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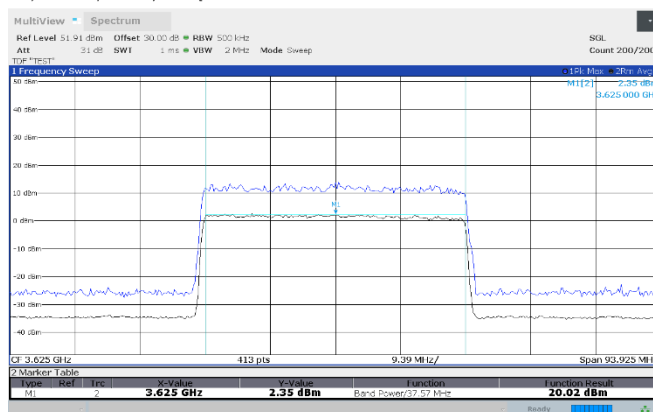
PAPR, TX: 3680 MHz, BW: 40MHz, MOD: 64QAM



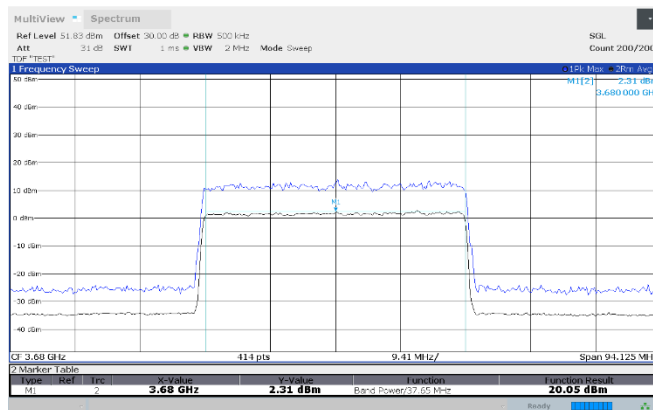
PAPR, TX: 3570 MHz, BW: 40MHz, MOD: 64QAM



PAPR, TX: 3625 MHz, BW: 40MHz, MOD: 64QAM

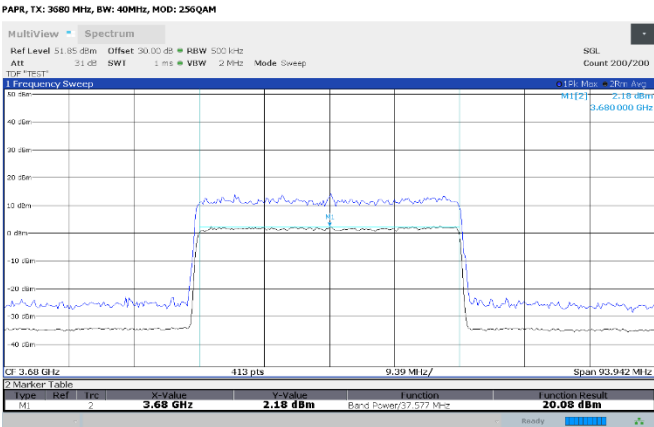
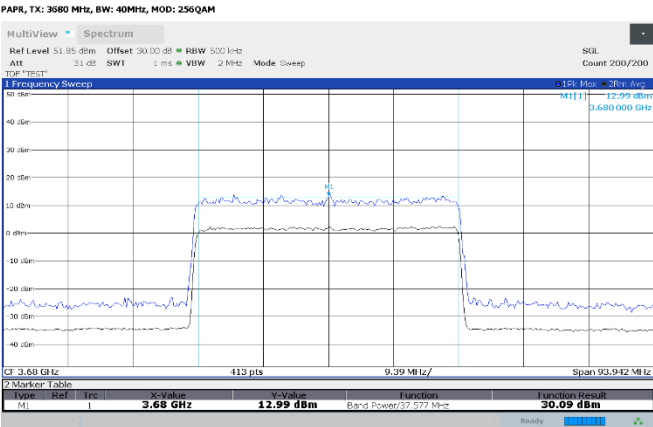
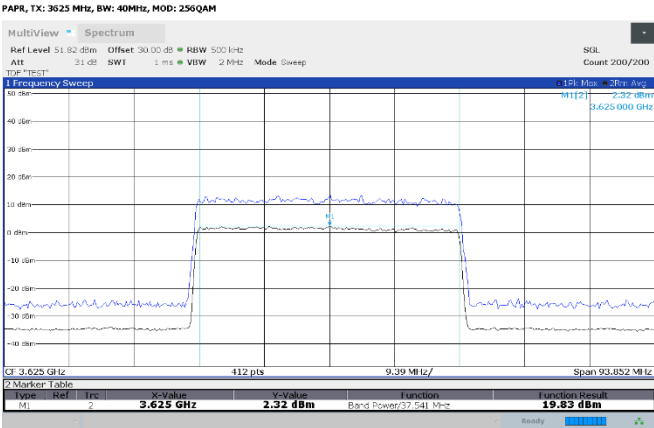
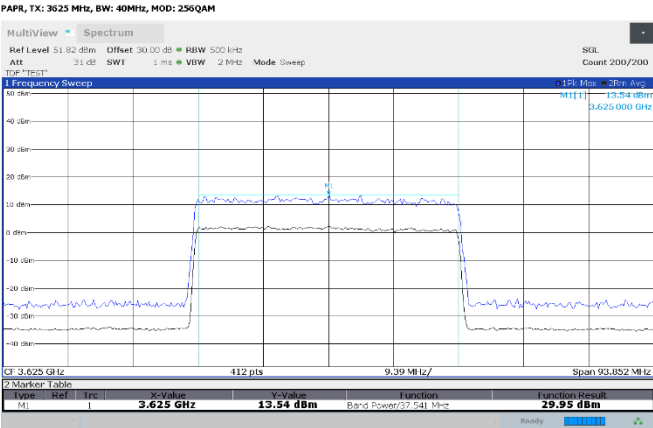
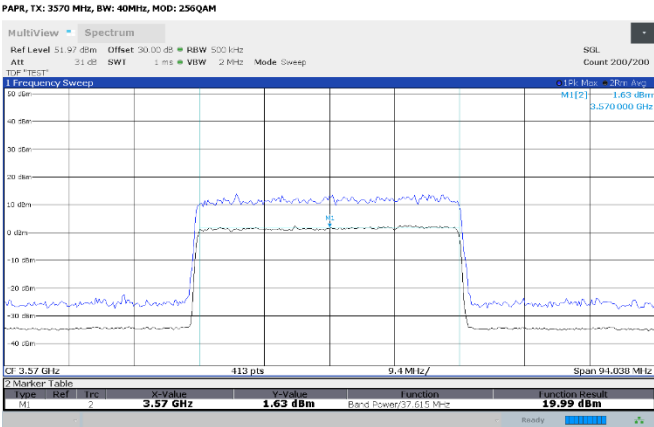
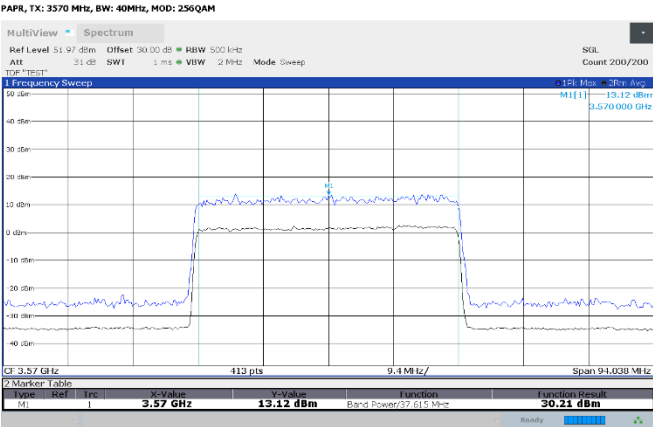


PAPR, TX: 3680 MHz, BW: 40MHz, MOD: 64QAM



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8.8 FCC §96.41(e)(1) Emissions intensity

8.8.1 Definitions and limits

- (1) General protection levels.
 - (i) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.
 - (ii) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.
- (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

8.8.2 Test summary

Test date	April 27, 2023	Temperature	18 °C
Test engineer	Chenhao Mao, Wireless Technician	Air pressure	1001 mbar
Verdict	Pass	Relative humidity	62%

8.8.3 Observations, settings and special notes

Spectrum analyzer settings (conducted test):

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Frequency span	Sufficient for making an accurate measurement
Detector mode	RMS
Trace mode	Max Hold

Receiver settings (radiated test):

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Frequency span	Sufficient for making an accurate measurement
Detector mode	Pre-scan: Peak detector Final measurements: RMS detector
Measurement time	5 seconds

The EUT has two ports which can transmit simultaneously in a correlated way.

Measurements were performed on antenna port 2, identified as the worst case with respect to output power in Section 8.5.

The evaluation was made on the three channels (lowest, middle, and highest), all modulations (QPSK, 16QAM, 64QAM, and 256QAM) and operating bandwidths (10 MHz, 20 MHz, 30 MHz, and 40 MHz). Appropriate attenuation and filtering was applied to avoid overloading the measurement equipment and to achieve the required noise floor.

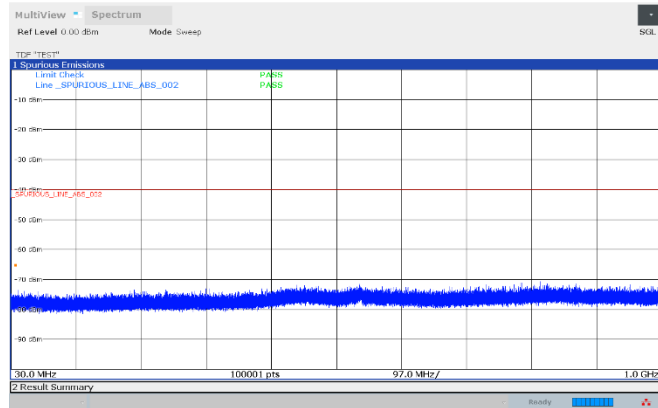
In the region within 1 MHz of the assigned channel edge, a reduced measurement bandwidth was used and a band power function employed to integrated over the entire 1 MHz region. MIMO correction was not applied (3.01 dB for 2 correlated antenna ports) however all emissions were well below the limit even after including an additional 3.01 dB.

8.8.4 Test data

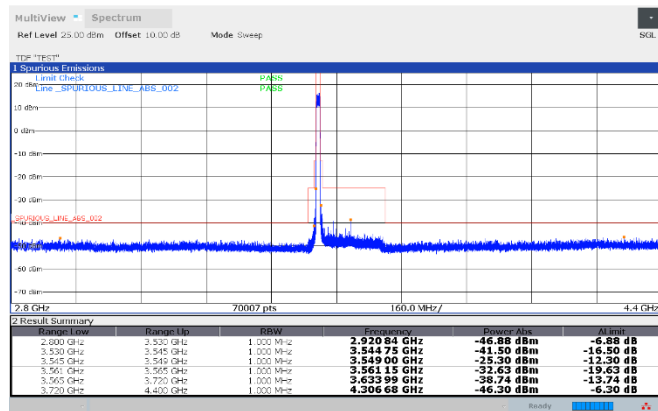
Band TDD48 (Antenna port spurious emissions)

TX: 3555 MHz, 10 MHz BW, QPSK modulation:

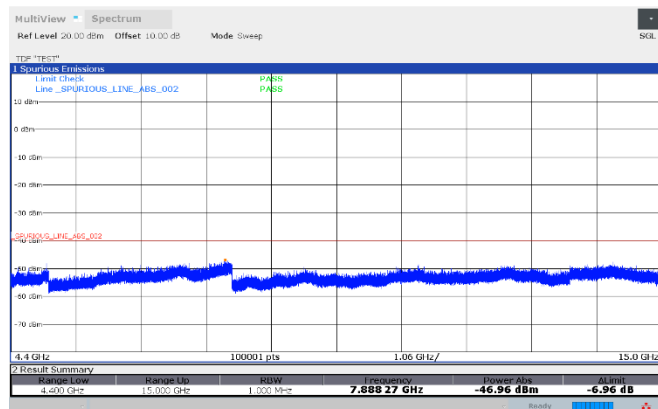
Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: QPSK



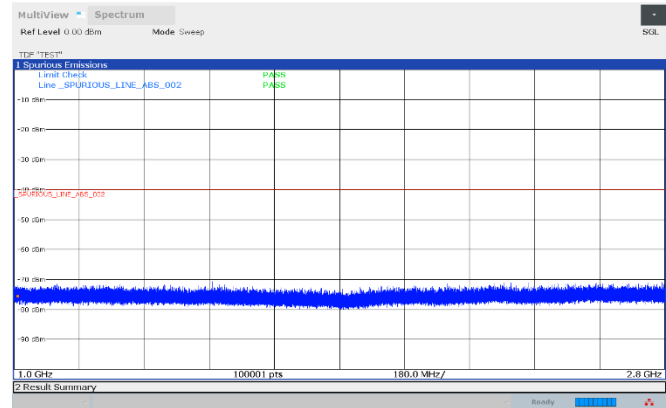
Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: QPSK



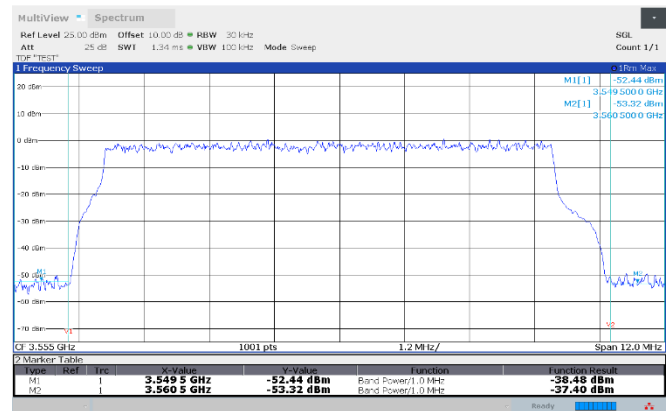
Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: QPSK



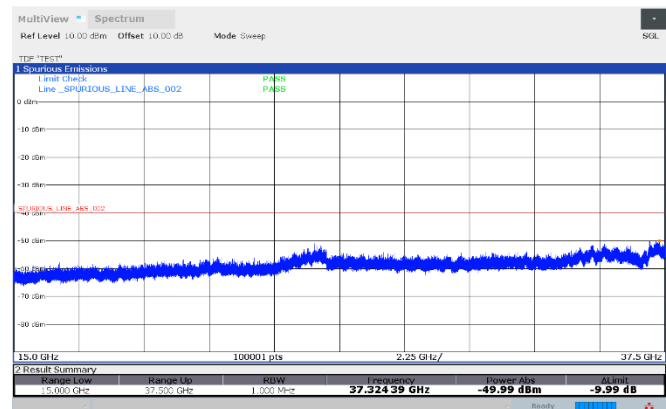
Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: QPSK



Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: QPSK

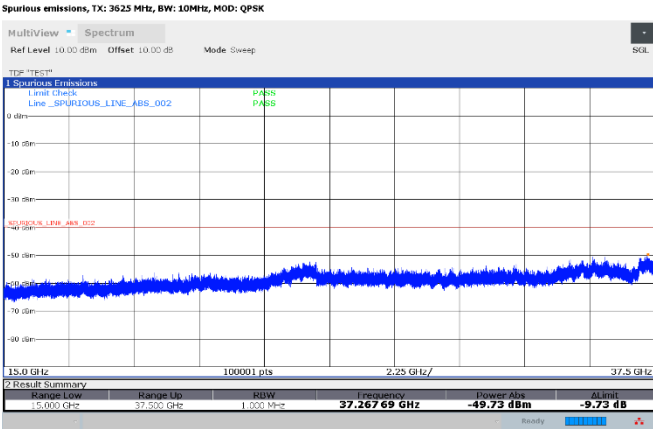
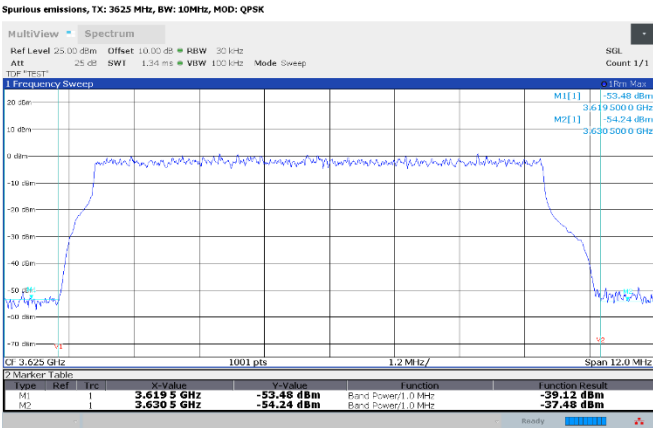
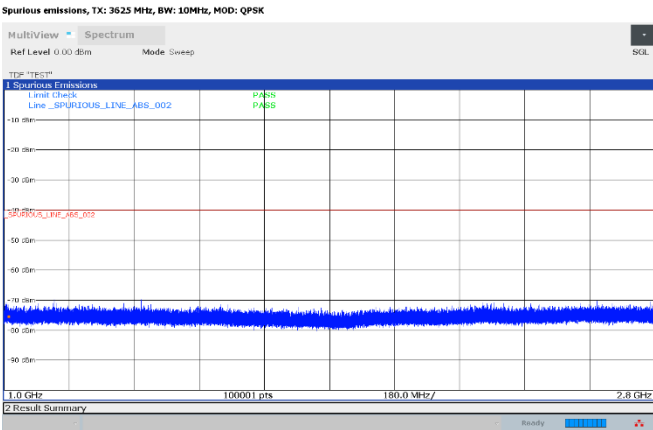
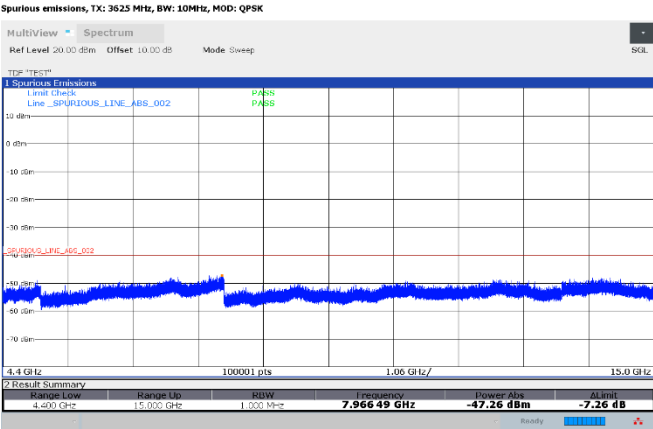
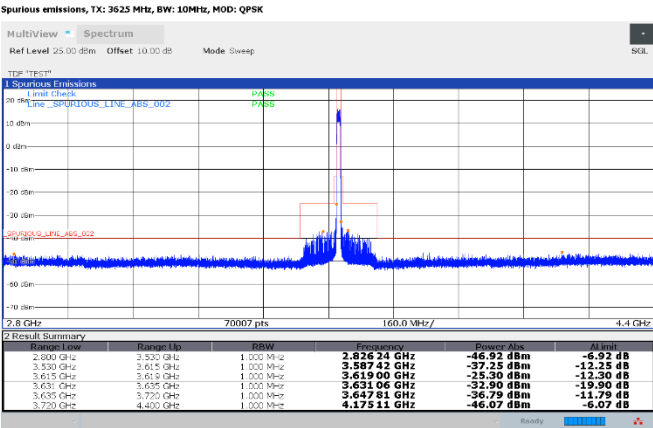
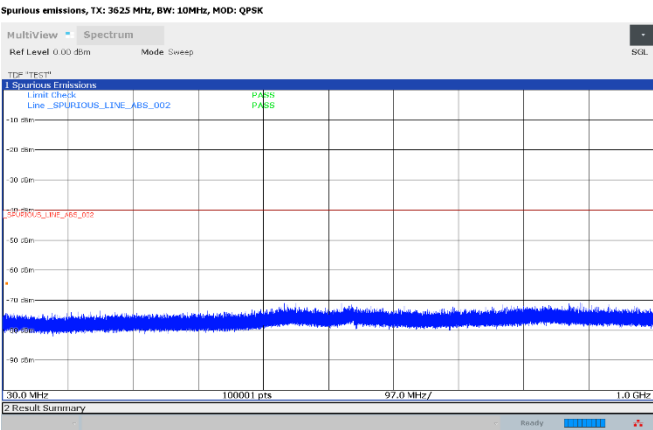


Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: QPSK



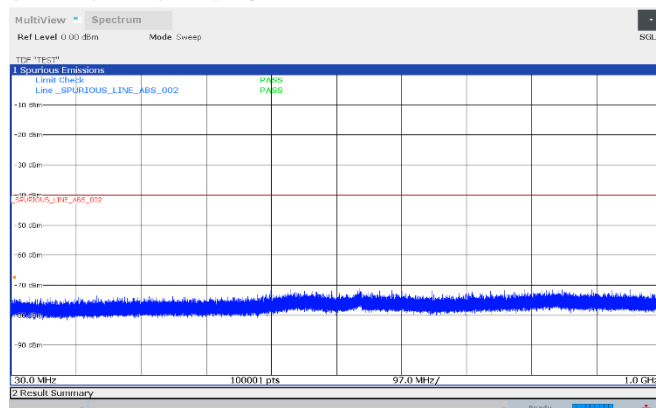


TX: 3625 MHz, 10 MHz BW, QPSK modulation:

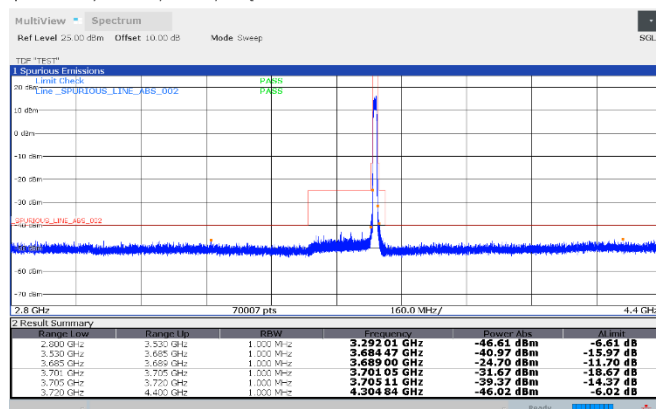


TX: 3695 MHz, 10 MHz BW, QPSK modulation:

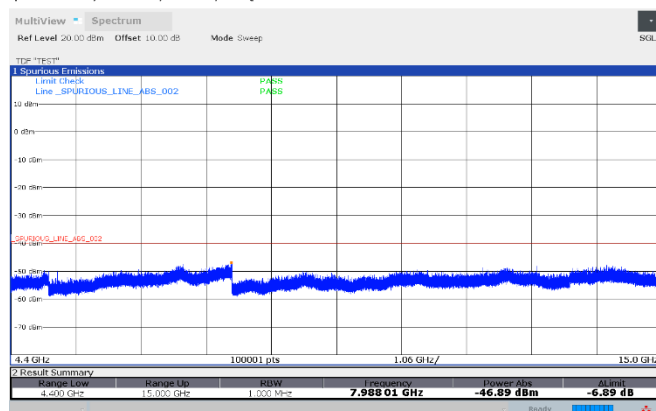
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: QPSK



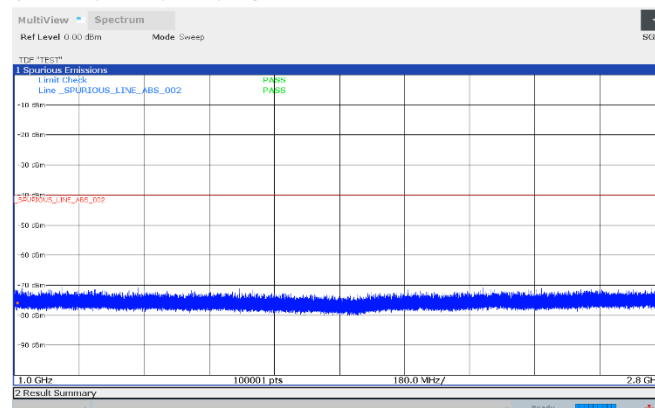
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: QPSK



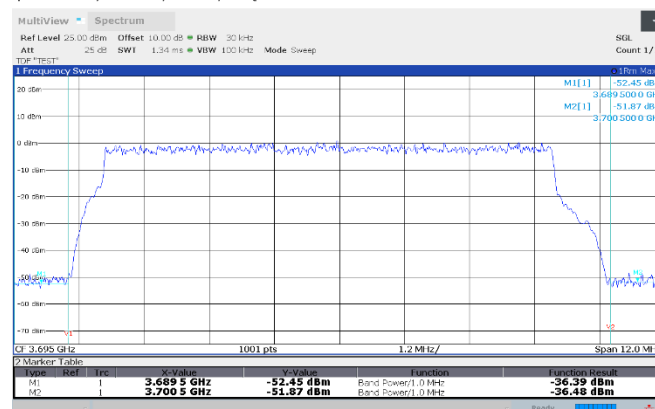
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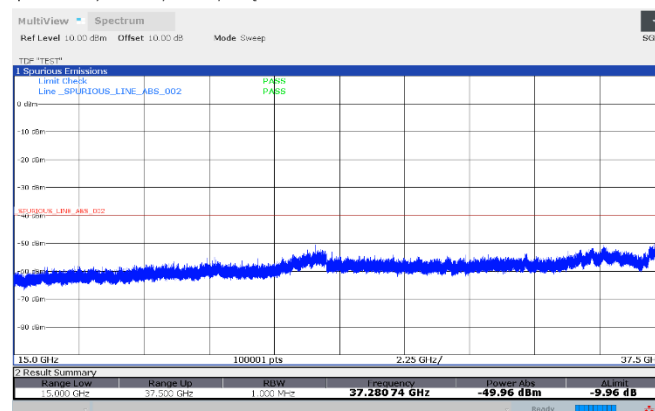
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: QPSK



Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: QPSK

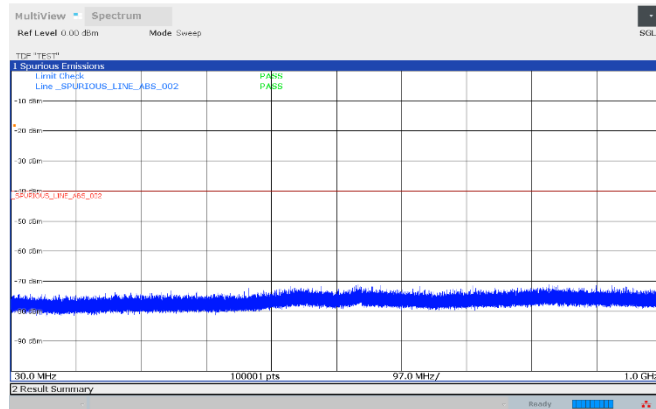


Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: QPSK

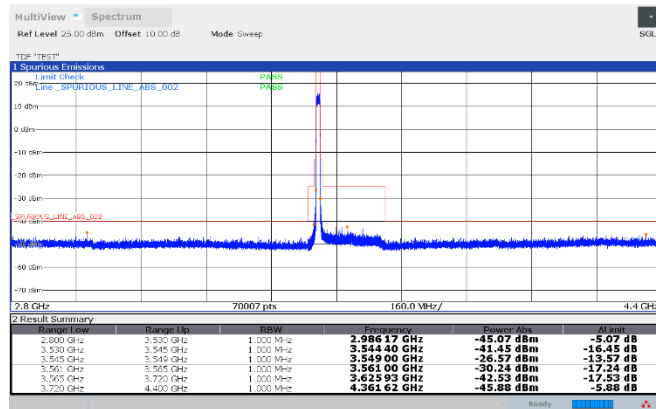


TX: 3555 MHz, 10 MHz BW, 16QAM modulation:

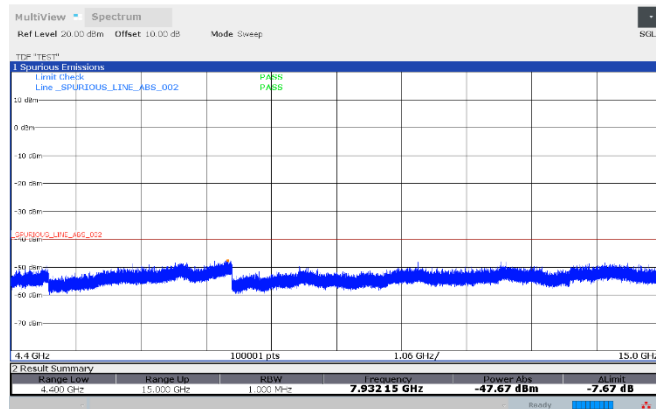
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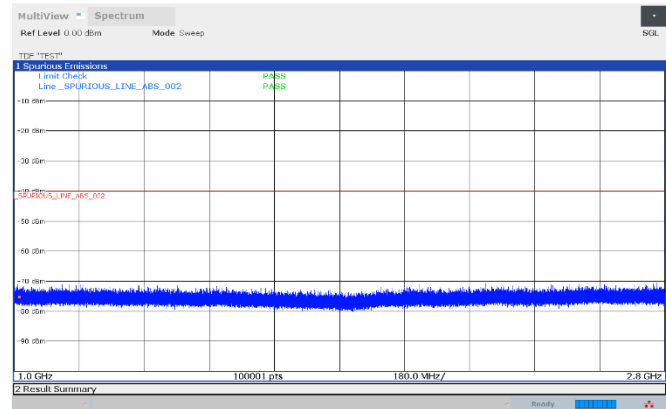
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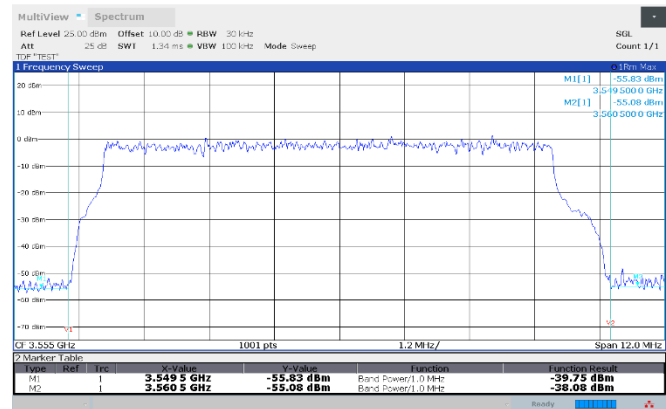
Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: 16QAM



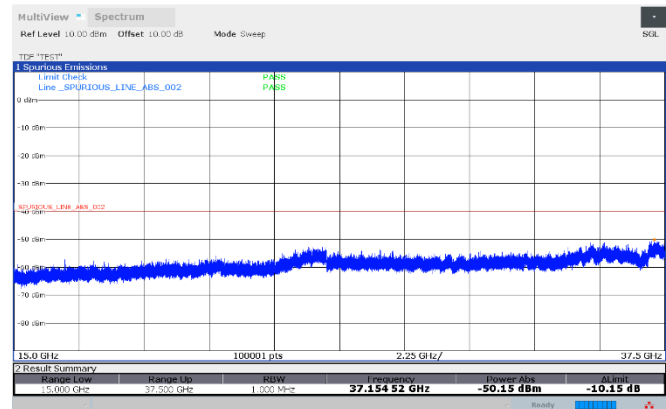
Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: 16QAM



Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: 16QAM

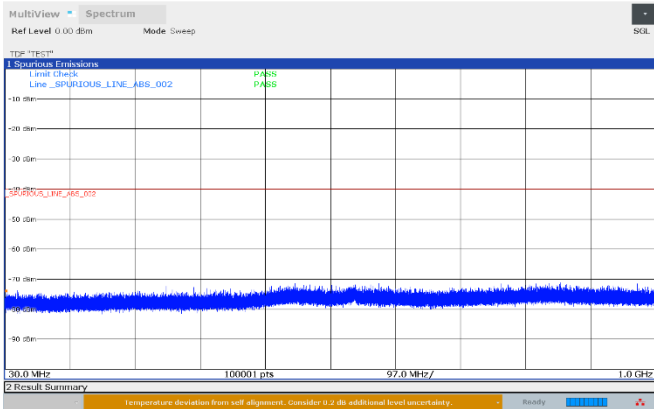


Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: 16QAM

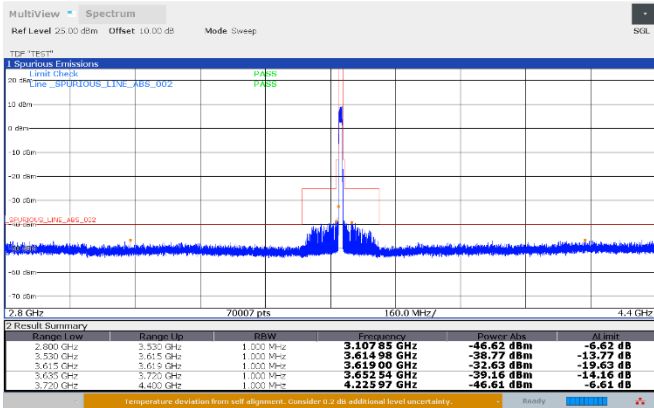


TX: 3625 MHz, 10 MHz BW, 16QAM modulation:

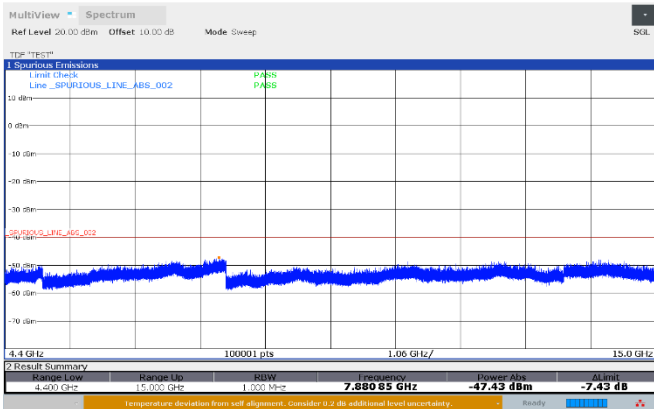
Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 16QAM



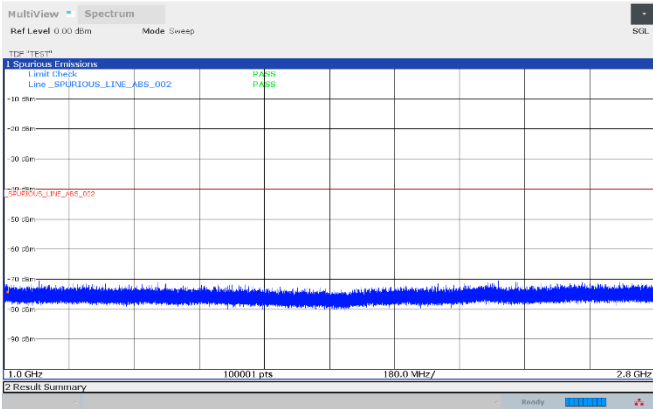
Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 16QAM



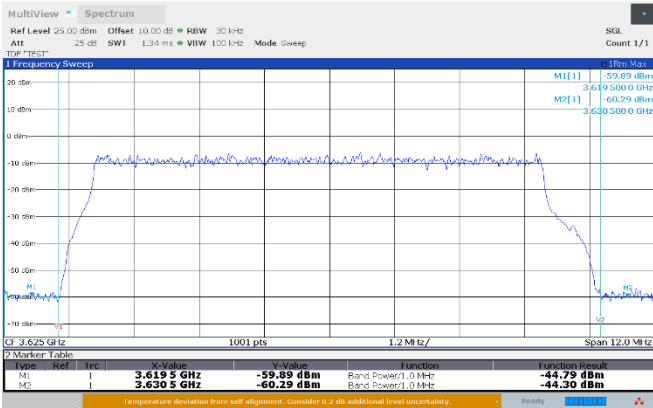
Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 16QAM



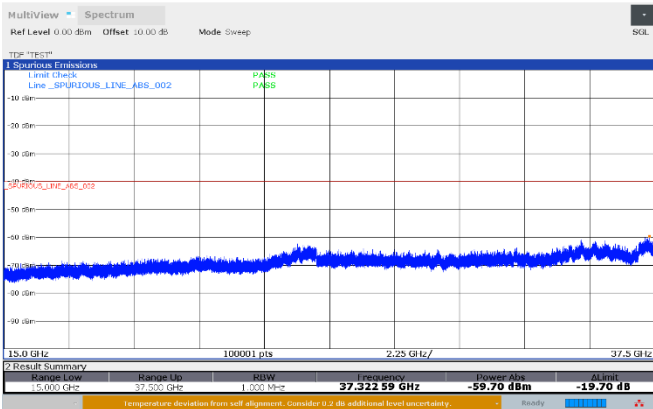
Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 16QAM



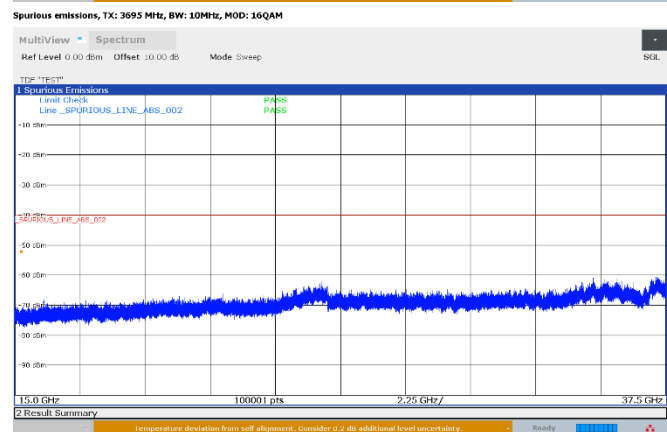
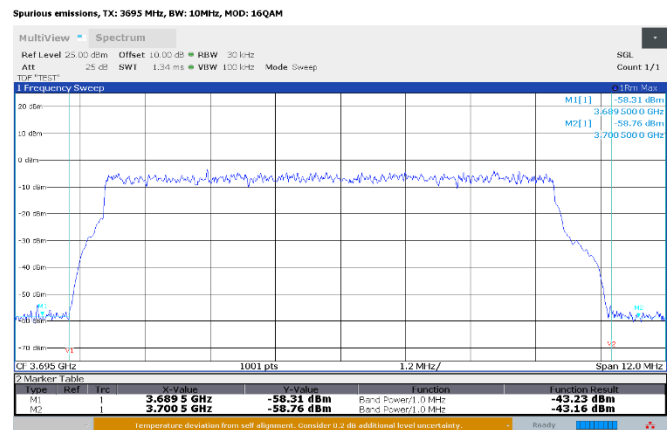
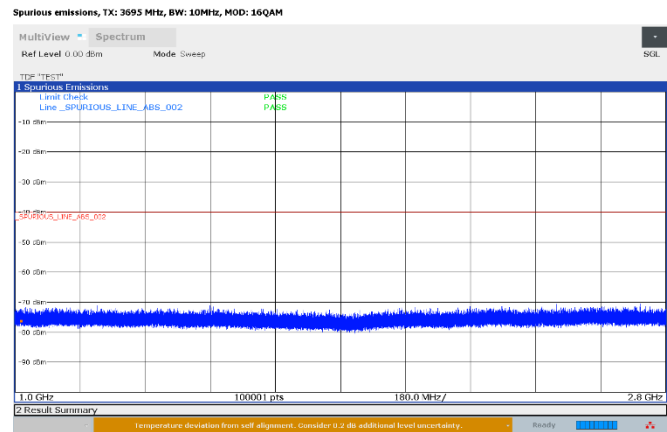
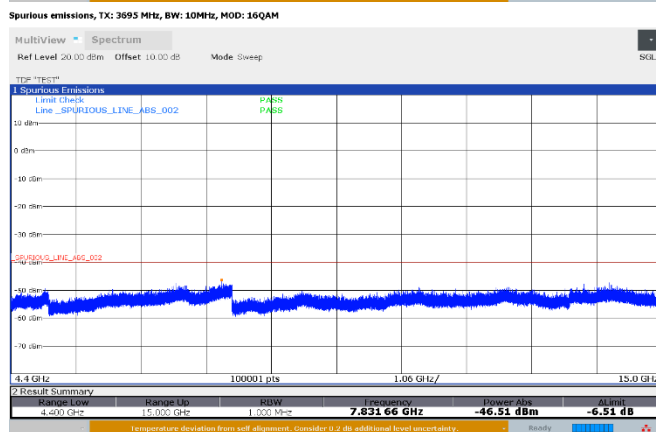
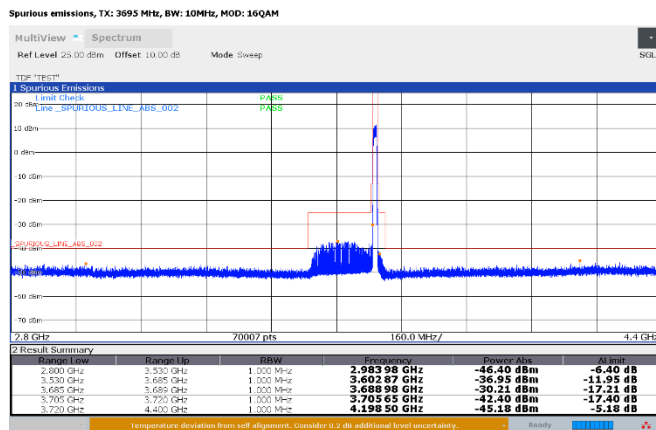
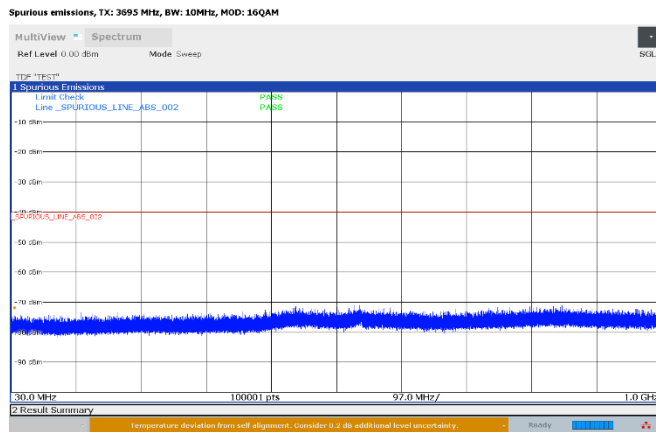
Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 16QAM



Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 16QAM

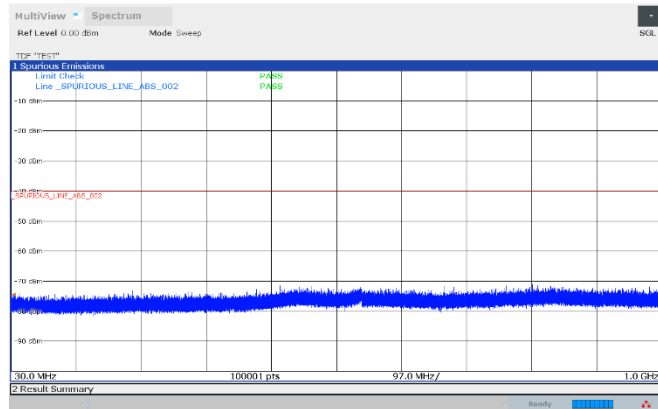


TX: 3695 MHz, 10 MHz BW, 16QAM modulation:

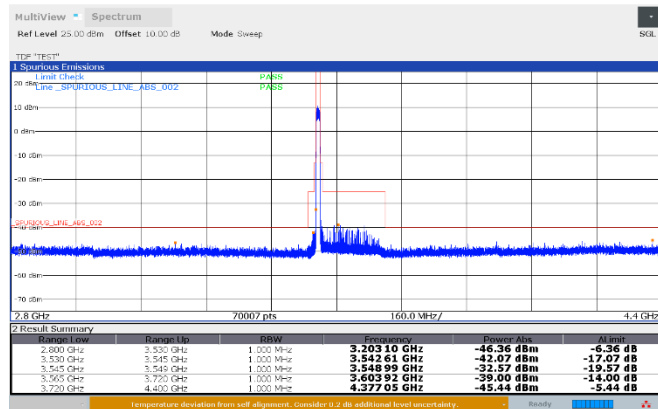


TX: 3555 MHz, 10 MHz BW, 64QAM modulation:

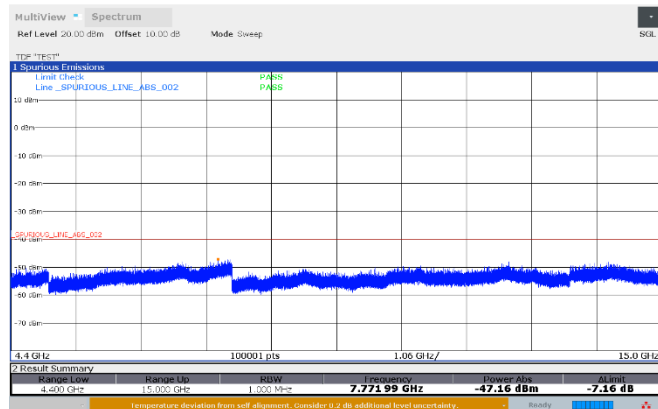
Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: 64QAM



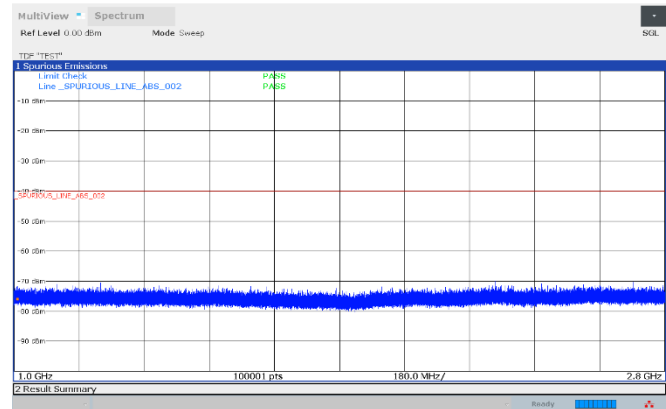
Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: 64QAM



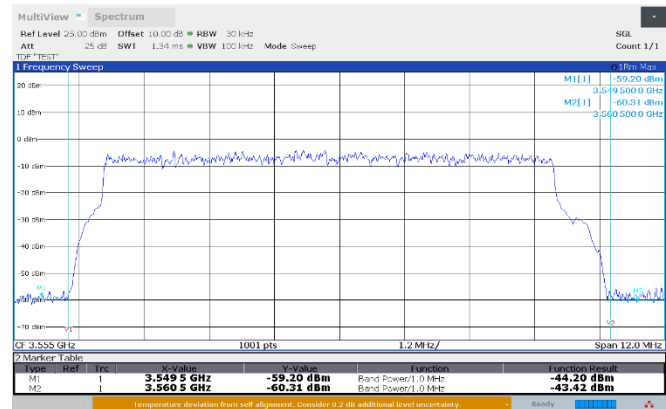
Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: 64QAM



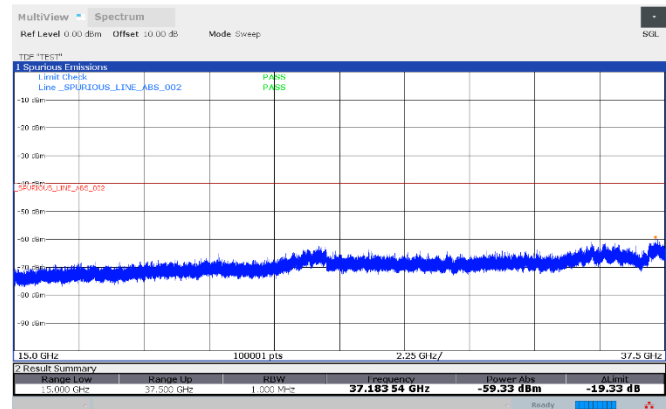
Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: 64QAM



Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: 64QAM

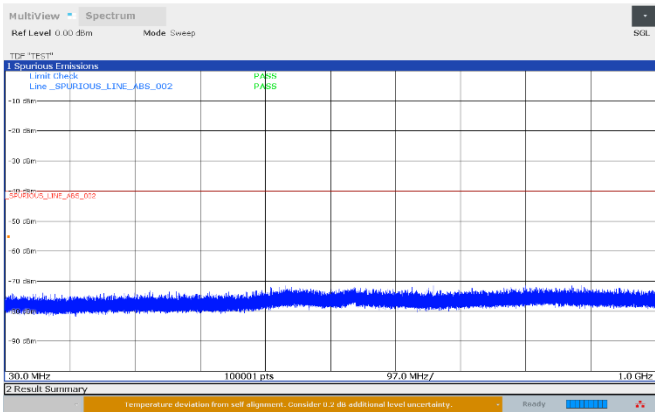


Spurious emissions, TX: 3555 MHz, BW: 10MHz, MOD: 64QAM

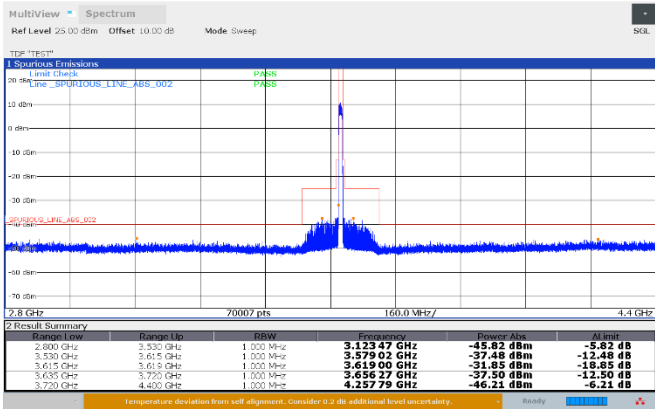


TX: 3625 MHz, 10 MHz BW, 64QAM modulation:

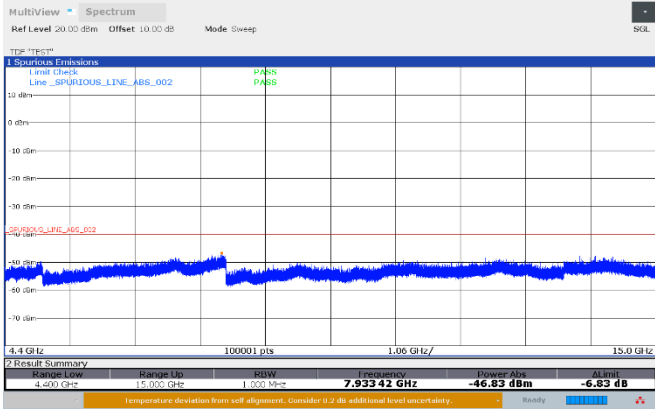
Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 64QAM



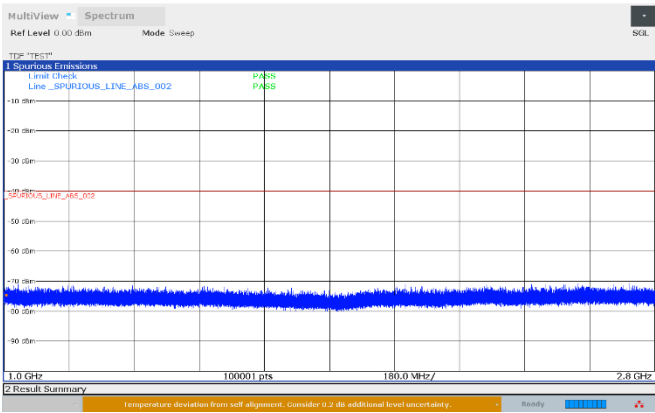
Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 64QAM



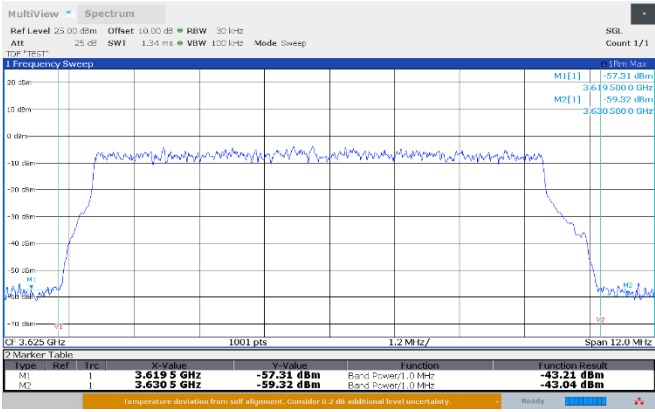
Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 64QAM



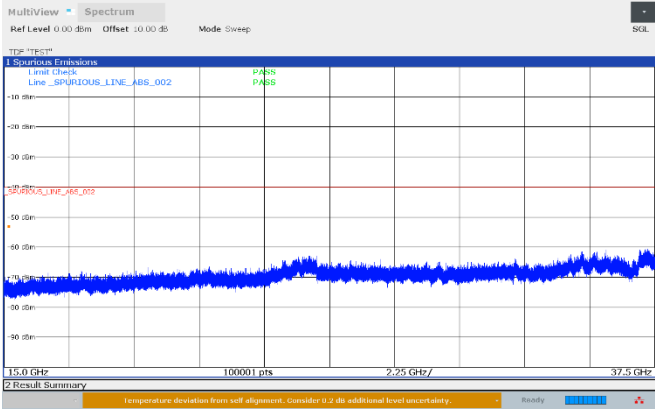
Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 64QAM



Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 64QAM

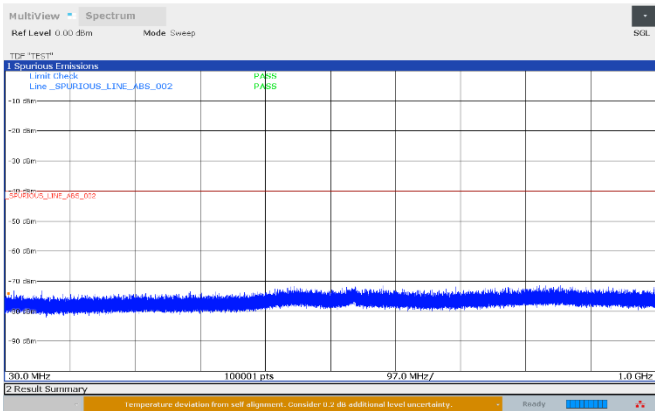


Spurious emissions, TX: 3625 MHz, BW: 10MHz, MOD: 64QAM

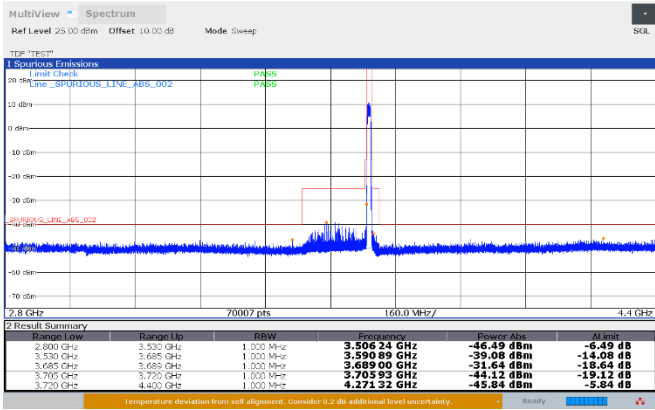


TX: 3695 MHz, 10 MHz BW, 64QAM modulation:

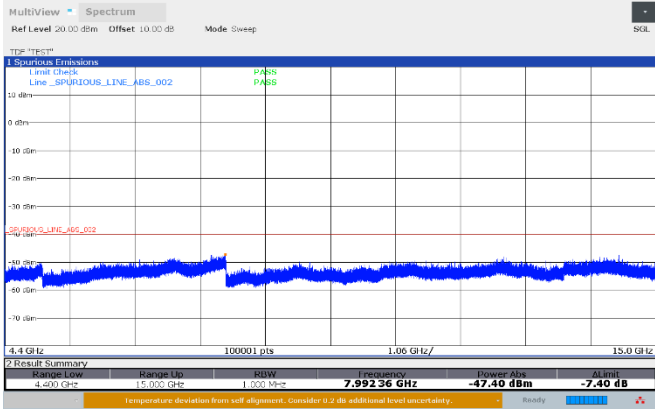
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 64QAM



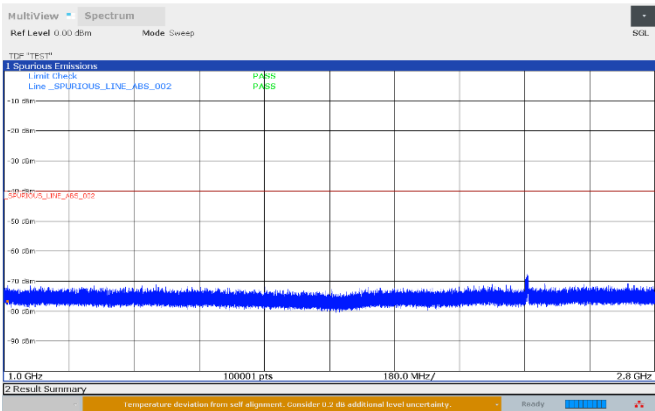
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 64QAM



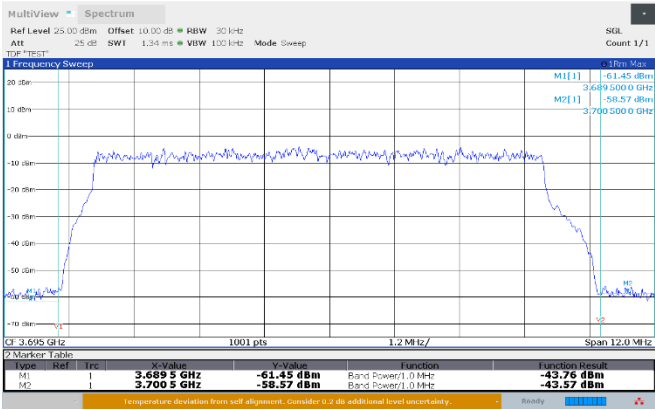
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 64QAM



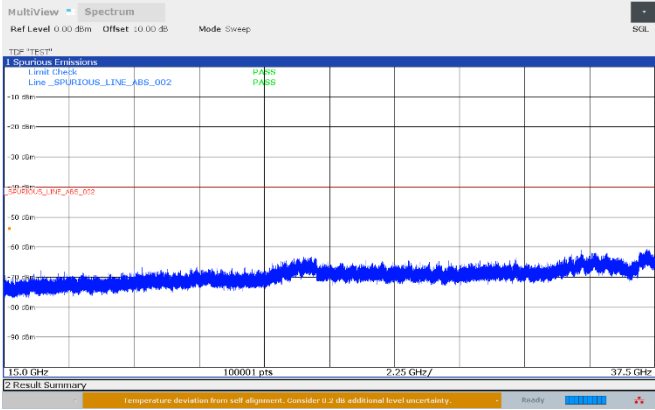
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 64QAM



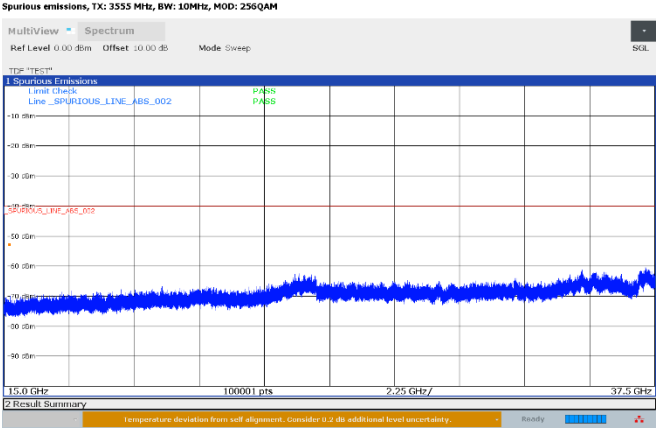
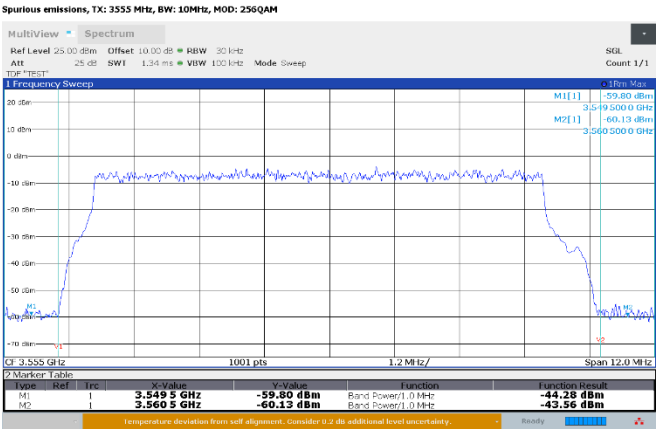
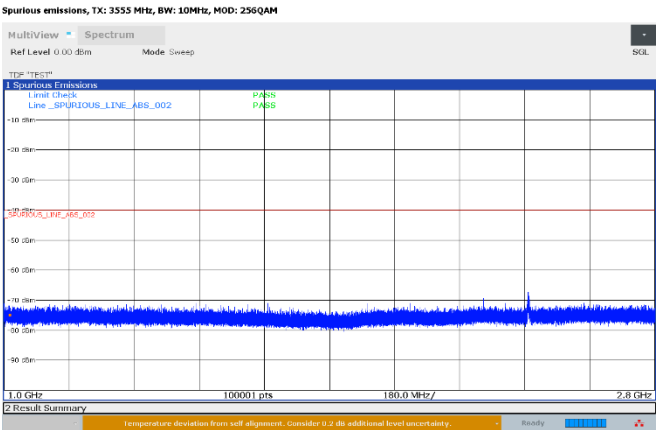
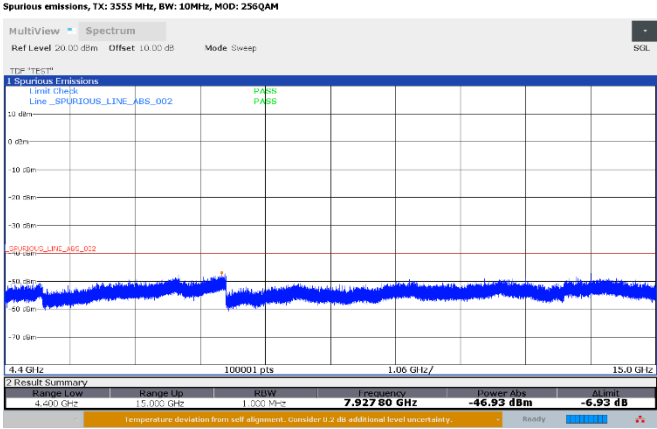
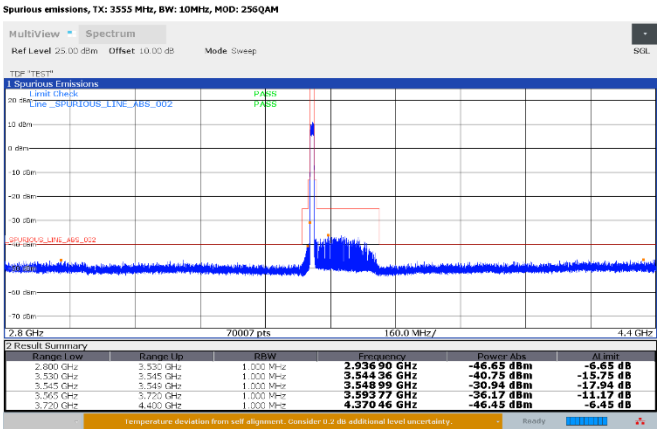
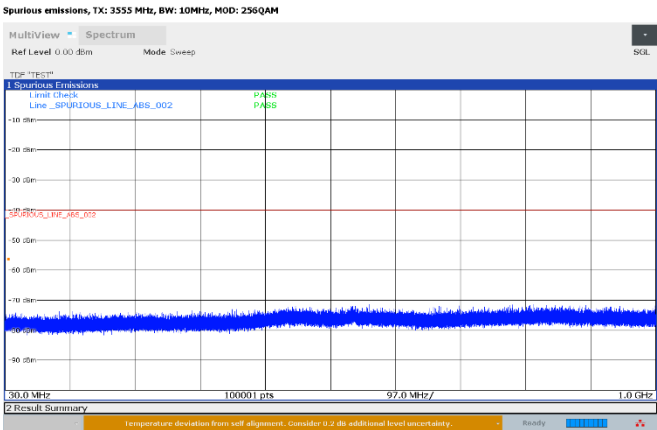
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 64QAM



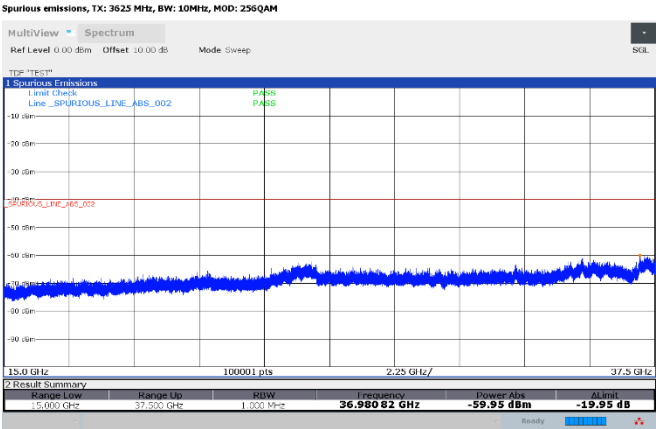
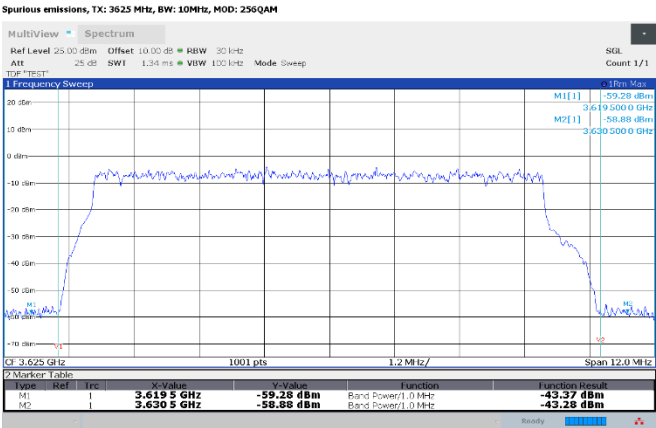
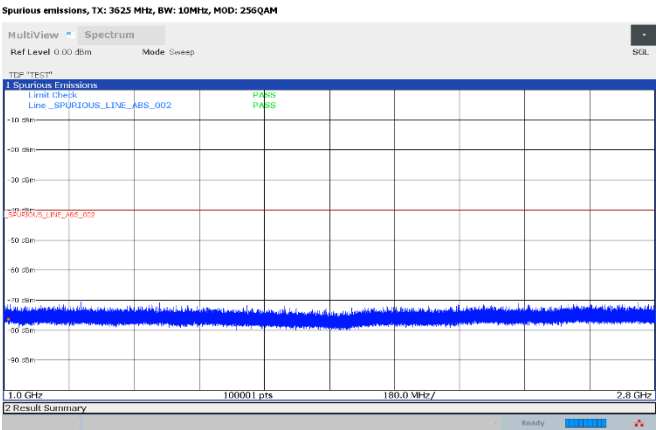
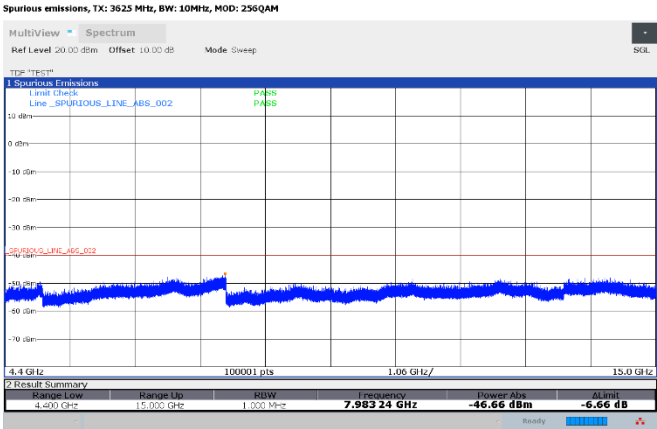
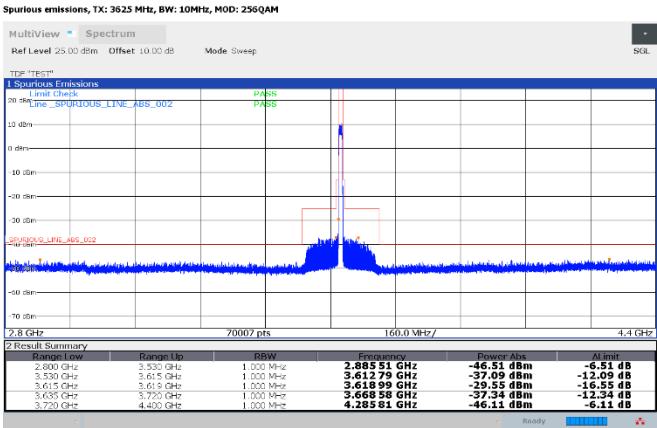
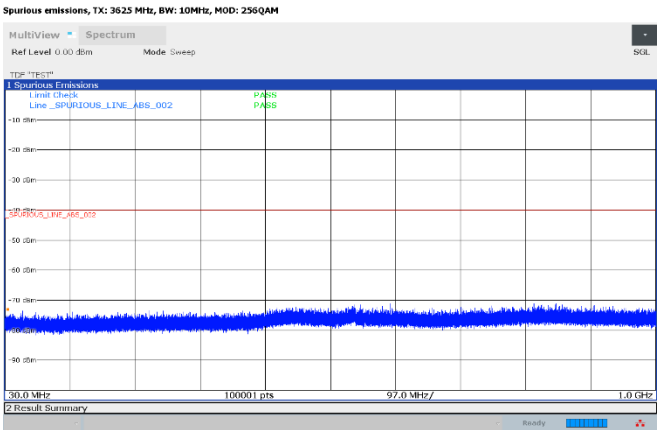
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 64QAM



TX: 3555 MHz, 10 MHz BW, 256QAM modulation:

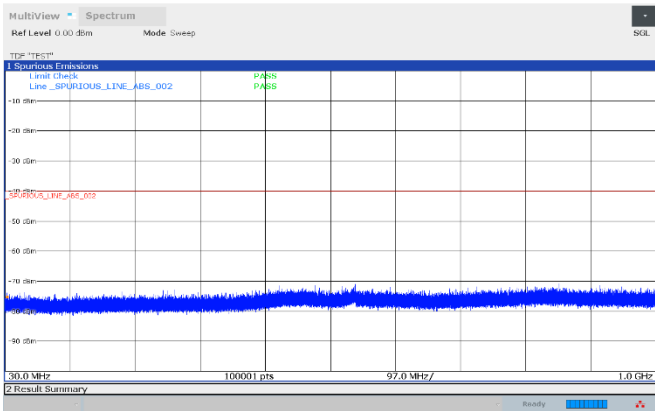


TX: 3625 MHz, 10 MHz BW, 256QAM modulation:

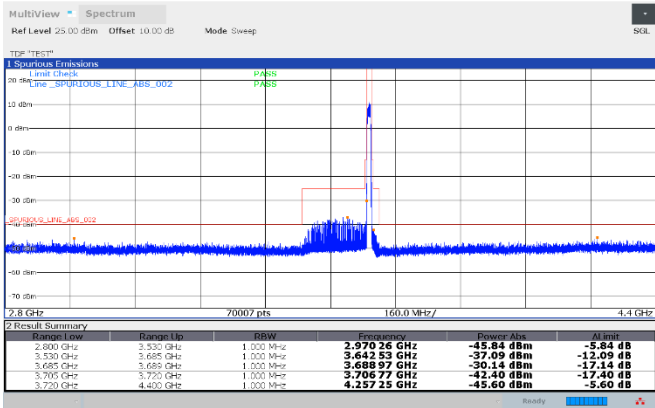


TX: 3695 MHz, 10 MHz BW, 256QAM modulation:

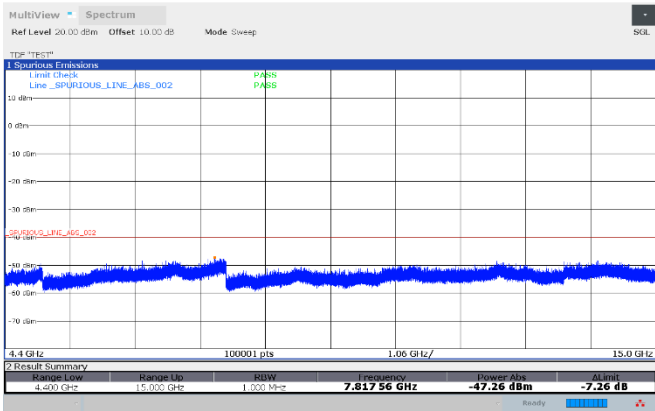
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 256QAM



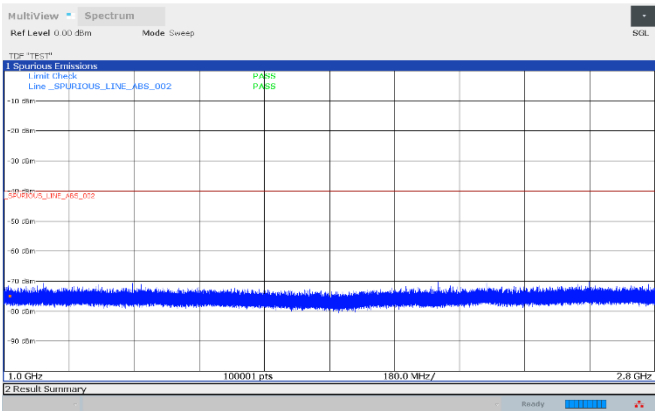
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 256QAM



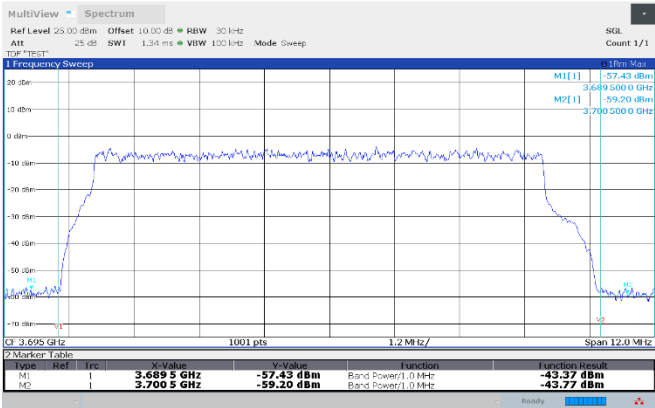
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 256QAM



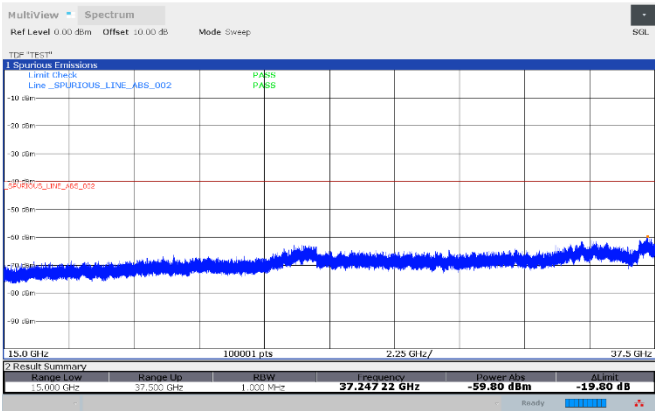
Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 256QAM



Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 256QAM

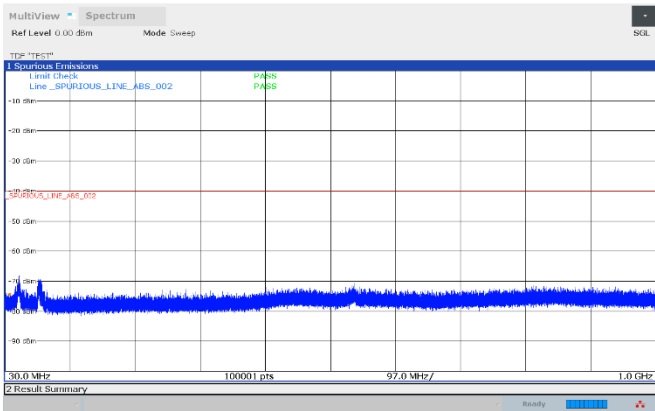


Spurious emissions, TX: 3695 MHz, BW: 10MHz, MOD: 256QAM

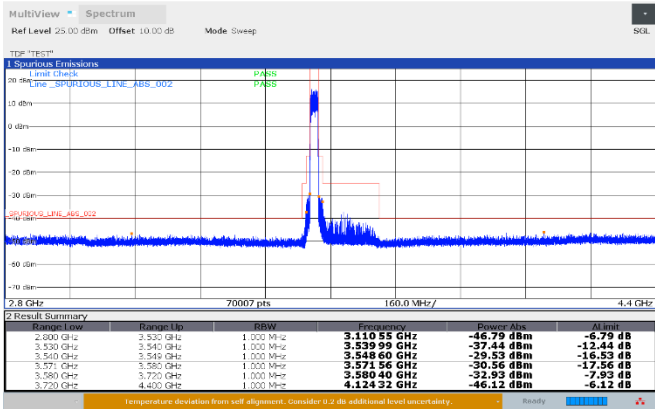


TX: 3560 MHz, 20 MHz BW, QPSK modulation:

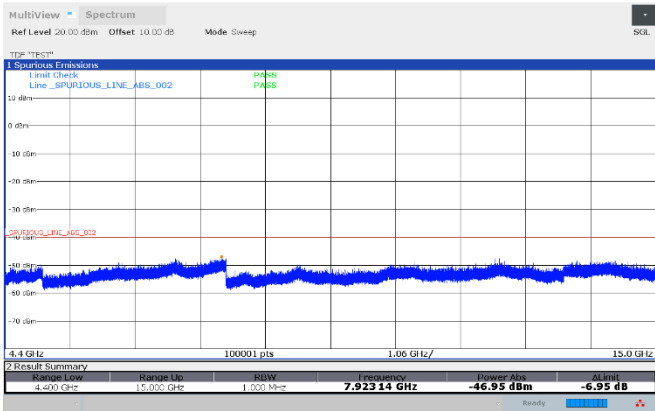
Spurious emissions, TX: 3560 MHz, BW: 20MHz, MOD: QPSK



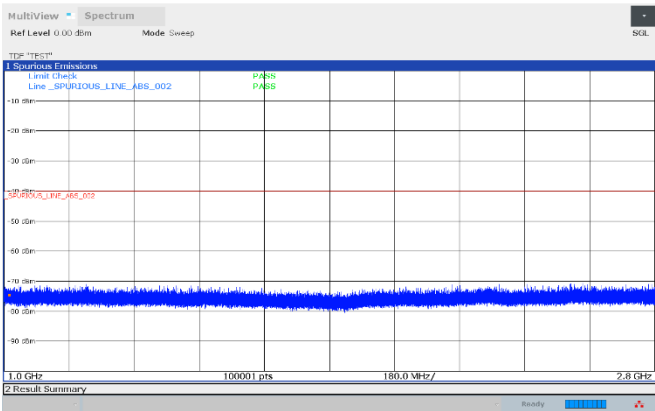
Spurious emissions, TX: 3560 MHz, BW: 20MHz, MOD: QPSK



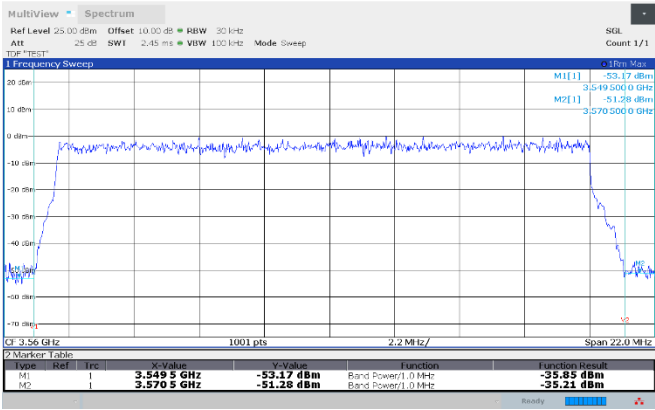
Spurious emissions, TX: 3560 MHz, BW: 20MHz, MOD: QPSK



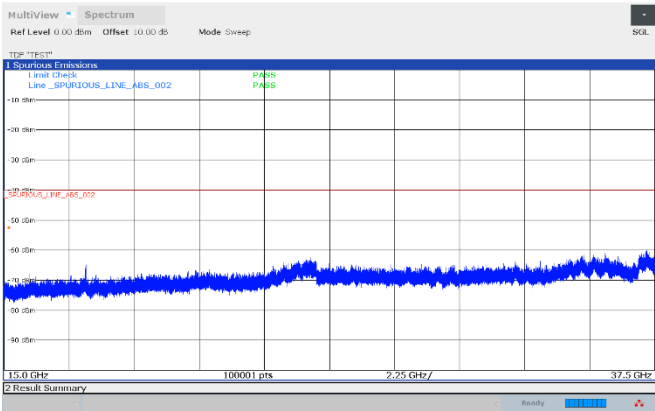
Spurious emissions, TX: 3560 MHz, BW: 20MHz, MOD: QPSK



Spurious emissions, TX: 3560 MHz, BW: 20MHz, MOD: QPSK

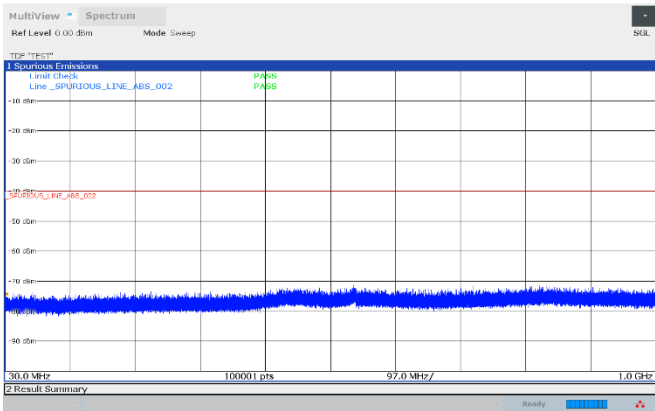


Spurious emissions, TX: 3560 MHz, BW: 20MHz, MOD: QPSK

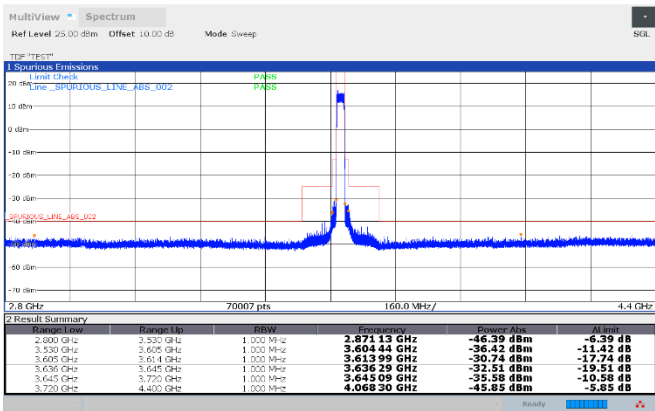


TX: 3625 MHz, 20 MHz BW, QPSK modulation:

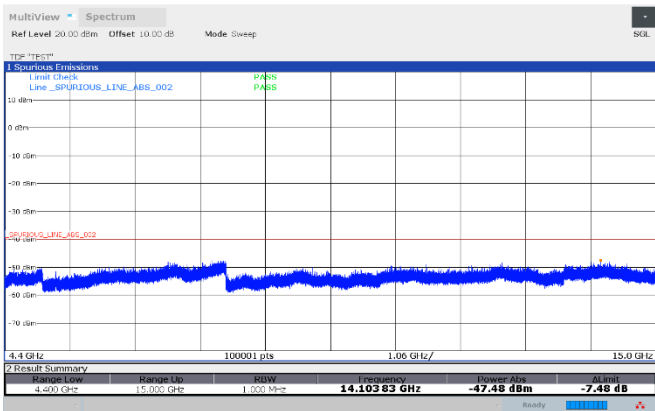
Spurious emissions, TX: 3625 MHz, BW: 20MHz, MOD: QPSK



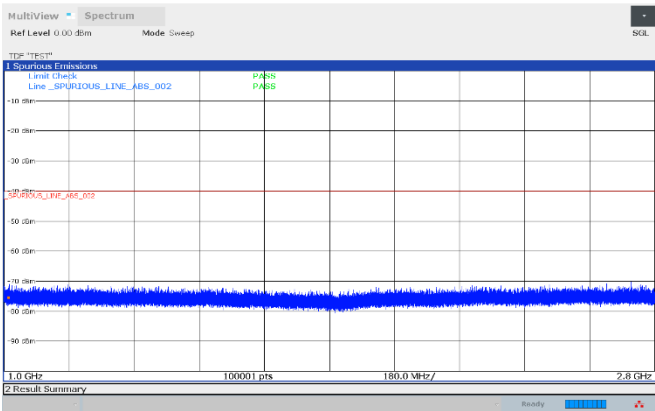
Spurious emissions, TX: 3625 MHz, BW: 20MHz, MOD: QPSK



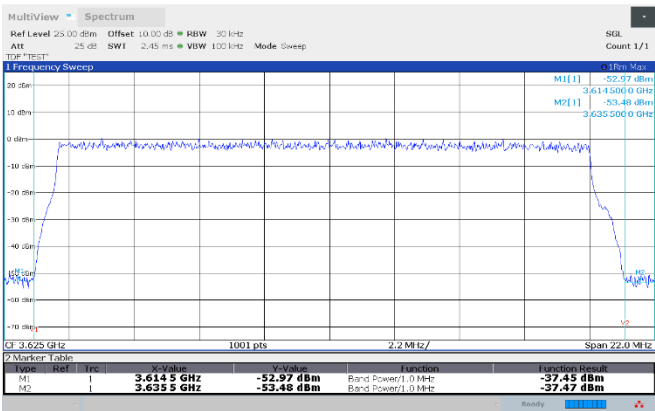
Spurious emissions, TX: 3625 MHz, BW: 20MHz, MOD: QPSK



Spurious emissions, TX: 3625 MHz, BW: 20MHz, MOD: QPSK



Spurious emissions, TX: 3625 MHz, BW: 20MHz, MOD: QPSK



Spurious emissions, TX: 3625 MHz, BW: 20MHz, MOD: QPSK

