

# **TEST REPORT**

APPLICANT	:	MiMOMax Wireless Limited
PRODUCT NAME	:	700MHz Upper A Block Tornado Transceiver
MODEL NAME	:	MWL-TORNADO-*H A/B/C *
BRAND NAME	:	MiMOMax Wireless
FCC ID		XMK-MMXTRNB006
STANDARD(S)	:	47 CFR Part 2 47 CFR Part 27
RECEIPT DATE	:	2021-02-23
TEST DATE	:	2021-03-02 to 2021-05-25
ISSUE DATE	:	2021-05-25

Lingkeye

Tested by:

Ling Keye( Rapporteur)

Approved by:

Peng Huarui(Supervisor)

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Change History						
Issue Date Reason for change						
1.0	2021-05-25	First edition				



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# **1.** Technical Information

Note: Provide by applicant.

## **1.1. Applicant and Manufacturer Information**

Applicant:         MiMOMax Wireless Limited			
Applicant Address:540 Wairakei Road, Christchurch, 8053 New Zealand			
Manufacturer:	MiMOMax Wireless Limited		
Manufacturer Address:	540 Wairakei Road, Christchurch, 8053 New Zealand		

# 1.2. Equipment Under Test (EUT) Description

Product Name:	700MHz Upper A Block Tornado Transceiver
Hardware Version:	P001
Software Version:	TRN-04.06.02
Operating Frequency Range:	757-758 MHz & 787-788 MHz, 2Tx/2Rx
Channel Bandwidth:	12.5kHz; 25kHz; 50kHz
Modulation Type:	QPSK; 16QAM; 64QAM; 256QAM
Operating Voltage:	10.5-60Vdc
Antenna Type & Gain:	Omni Antenna: 4.0dBi; Panel Antenna: 16.0dBi
Emission Designator:	12.5kHz:10K3W1W
	25.0kHz:21K1W1W
	50.0kHz:42K0W1W





## 1.3. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2 and Part 27 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and
I		Regulations
2	47 CFR Part 27	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are listed as below:

No	Section	Description	Test Date	Test Engineer	Result
1	27.50 2.1046	Power and antenna height limits Radio frequency power output	Mar 3, 2021	Ling Keye	Complies
2	2.1049	Occupied bandwidth	Mar 5, 2021	Ling Keye	PASS
3	2.1051 27.53 27.53(c) 27.53(c)(1) 27.53(c)(2) 27.53(c)(3) 27.53(c)(5) 27.53(c)(6)	Conducted spurious emissions at antenna terminals with DUT Operations in the 746 - 758 MHz band 776 - 788 MHz band emissions in763 - 775 MHz and 793 - 805MHz band	Mar5, 2021	Ling Keye	PASS
4	2.1053 27.53 27.53(c) 27.53(c)(1) 27.53(c)(2) 27.53(c)(3) 27.53(c)(5) 27.53(c)(6)	Field strength of radiated spurious emissions with DUT Operations in the 746 - 758 MHz band 776 - 788 MHz band Emissions in 763 - 775 MHz and 793 - 805MHz band	Mar 4, May 25, 2021	Gao Jianrou	PASS
5	27.53(f)	Additional emission requirement in 1559 - 1610 MHz band	Mar 15, 2021	Gao Jianrou	PASS





6	27.54 2.1055	Frequency stability	Mar 7, 2021	Ling Keye	PASS	
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**Note 1:** The TORNADO TRANSCEIVER complies with FCC 47 CFR Part 2 and Part 27 when tested in accordance with the test methods described in 47 CFR Part 2 and Part 27.

**Note 2:** The TORNADO TRANSCEIVER supports 2 Tx antenna ports, which was defined as Channel H & Channel V separately.

**Note 3:** The path loss during the conducted RF test is calibrated to correct the results by the Ext Gain setting. The Ext Gain contains two parts that cable loss 0.8dB and Attenuator 29.0dB.

## 1.4. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86 -106





# 2.47 CFR Part 2 and Part 27 Requirements

# 2.1. Radio Frequency Power Output and E.R.P.

#### 2.1.1. Test result

Nominal Frequency: 757.050 MHz Tx Port: Channel H

Channel Bandwidth	Modulation Type	Voltage (Vdc)	Measured Power	Rated Power		NT Gain = dBi)	E.R.P. (AI 16.0	NT Gain = dBi)
(kHz)	- 71	()	(dBm)	(Watt)	dBm	Watt	dBm	Watt
12.5	QPSK	24	24.04	0.25	25.89	0.388	37.89	6.152
12.5	16QAM	24	24.02	0.25	25.87	0.386	37.87	6.124
12.5	64QAM	24	24.08	0.25	25.93	0.392	37.93	6.209
12.5	256QAM	24	24.09	0.25	25.94	0.393	37.94	6.223
25.0	QPSK	24	24.04	0.25	25.89	0.388	37.89	6.152
25.0	16QAM	24	24.05	0.25	25.90	0.389	37.90	6.166
25.0	64QAM	24	24.07	0.25	25.92	0.391	37.92	6.194
25.0	256QAM	24	24.09	0.25	25.94	0.393	37.94	6.223
50.0	QPSK	24	23.99	0.25	25.84	0.384	37.84	6.081
50.0	16QAM	24	24.01	0.25	25.86	0.385	37.86	6.109
50.0	64QAM	24	24.08	0.25	25.93	0.392	37.93	6.209
50.0	256QAM	24	24.08	0.25	25.93	0.392	37.93	6.209

Nominal Frequency: 757.050 MHz Tx Port: Channel V

Channel Bandwidth	Modulation Type	Voltage (Vdc)	Measured Power (dBm)	Rated Power		NT Gain = dBi)	E.R.P. (ANT Gain = 16.0dBi)	
(kHz)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	()		(Watt)	dBm	Watt	dBm	Watt
12.5	QPSK	24	23.97	0.25	25.82	0.382	37.82	6.053
12.5	16QAM	24	23.94	0.25	25.79	0.379	37.79	6.012
12.5	64QAM	24	24.01	0.25	25.86	0.385	37.86	6.109
12.5	256QAM	24	24.08	0.25	25.93	0.392	37.93	6.209
25.0	QPSK	24	23.96	0.25	25.81	0.381	37.81	6.039



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25.0	16QAM	24	24.01	0.25	25.86	0.385	37.86	6.109
25.0	64QAM	24	24.08	0.25	25.93	0.392	37.93	6.209
25.0	256QAM	24	24.07	0.25	25.92	0.391	37.92	6.194
50.0	QPSK	24	24.00	0.25	25.85	0.385	37.85	6.095
50.0	16QAM	24	23.95	0.25	25.80	0.380	37.80	6.026
50.0	64QAM	24	23.98	0.25	25.83	0.383	37.83	6.067
50.0	256QAM	24	24.04	0.25	25.89	0.388	37.89	6.152

#### Nominal Frequency: 787.950 MHz Tx Port: Channel H

Channel Bandwidth	Modulation Voltage		Measured Power	Rated Power	E.R.P. (ANT Gain = 4.0dBi)		E.R.P. (ANT Gain = 16.0dBi)	
(kHz)	512		(dBm)	(Watt)	dBm	Watt	dBm	Watt
12.5	QPSK	24	23.96	0.25	25.81	0.381	37.81	6.039
12.5	16QAM	24	23.93	0.25	25.78	0.378	37.78	5.998
12.5	64QAM	24	24.02	0.25	25.87	0.386	37.87	6.124
12.5	256QAM	24	24.03	0.25	25.88	0.387	37.88	6.138
25.0	QPSK	24	23.97	0.25	25.82	0.382	37.82	6.053
25.0	16QAM	24	23.93	0.25	25.78	0.378	37.78	5.998
25.0	64QAM	24	23.97	0.25	25.82	0.382	37.82	6.053
25.0	256QAM	24	24.04	0.25	25.89	0.388	37.89	6.152
50.0	QPSK	24	24.06	0.25	25.91	0.390	37.91	6.180
50.0	16QAM	24	24.01	0.25	25.86	0.385	37.86	6.109
50.0	64QAM	24	24.05	0.25	25.90	0.389	37.90	6.166
50.0	256QAM	24	24.08	0.25	25.93	0.392	37.93	6.209

#### Nominal Frequency: 787.950 MHz Tx Port: Channel V

Channel Bandwidth	Modulation Type	Voltage (Vdc)	Power Powe				E.R.P. (ANT Gain = 16.0dBi)	
(kHz)	51.5		(dBm)	(Watt)	dBm	Watt	dBm	Watt
12.5	QPSK	24	23.94	0.25	25.79	0.379	37.79	6.012
12.5	16QAM	24	23.95	0.25	25.80	0.380	37.80	6.026
12.5	64QAM	24	23.93	0.25	25.78	0.378	37.78	5.998



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256QAM	24	24.02	0.25	25.87	0.386	37.87	6.124
QPSK	24	24.01	0.25	25.86	0.385	37.86	6.109
16QAM	24	23.91	0.25	25.76	0.377	37.76	5.970
64QAM	24	23.98	0.25	25.83	0.383	37.83	6.067
256QAM	24	23.94	0.25	25.79	0.379	37.79	6.012
QPSK	24	23.97	0.25	25.82	0.382	37.82	6.053
16QAM	24	23.96	0.25	25.81	0.381	37.81	6.039
64QAM	24	23.98	0.25	25.83	0.383	37.83	6.067
256QAM	24	24.05	0.25	25.90	0.389	37.90	6.166
	QPSK 16QAM 64QAM 256QAM QPSK 16QAM 64QAM	QPSK         24           16QAM         24           64QAM         24           256QAM         24           QPSK         24           16QAM         24           256QAM         24           260QPSK         24           240QPSK         24           240QPSK         24           240QPSK         24           240QPSK         24           240QPSK         24	QPSK       24       24.01         16QAM       24       23.91         64QAM       24       23.98         256QAM       24       23.94         QPSK         24       23.97         16QAM       24       23.96         64QAM       24       23.98	QPSK         24         24.01         0.25           16QAM         24         23.91         0.25           64QAM         24         23.98         0.25           256QAM         24         23.94         0.25           QPSK         24         23.97         0.25           16QAM         24         23.96         0.25           256QAM         24         23.97         0.25           64QAM         24         23.96         0.25	QPSK         24         24.01         0.25         25.86           16QAM         24         23.91         0.25         25.76           64QAM         24         23.98         0.25         25.83           256QAM         24         23.94         0.25         25.79           QPSK         24         23.97         0.25         25.82           16QAM         24         23.97         0.25         25.82           16QAM         24         23.96         0.25         25.81           64QAM         24         23.98         0.25         25.81	QPSK       24       24.01       0.25       25.86       0.385         16QAM       24       23.91       0.25       25.76       0.377         64QAM       24       23.98       0.25       25.83       0.383         256QAM       24       23.94       0.25       25.79       0.379         QPSK       24       23.97       0.25       25.82       0.382         16QAM       24       23.96       0.25       25.81       0.381         QPSK       24       23.98       0.25       25.81       0.382         04QAM       24       23.96       0.25       25.81       0.383         04QAM       24       23.98       0.25       25.81       0.381	QPSK         24         24.01         0.25         25.86         0.385         37.86           16QAM         24         23.91         0.25         25.76         0.377         37.76           64QAM         24         23.98         0.25         25.83         0.383         37.83           256QAM         24         23.94         0.25         25.79         0.379         37.79           QPSK         24         23.97         0.25         25.82         0.382         37.82           16QAM         24         23.96         0.25         25.82         0.382         37.82           QPSK         24         23.96         0.25         25.81         0.381         37.81           64QAM         24         23.98         0.25         25.81         0.381         37.81           64QAM         24         23.98         0.25         25.83         0.383         37.83

**Note 1:** Measurements were carried out at the RF output terminals of the transmitter using spectrum analyzer. The path loss during the conducted RF test is calibrated to correct the results by the Ext Gain setting. The Ext Gain contains two parts that cable loss 0.8dB and Attenuator 29.0dB.

**Note 2:** The transmitter has a rated output power of 0.25 watt(24dBm). The measured power has been shown to be within +/- 1 dB of the rated power.

**Note 3:** E.I.R.P. (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi); E.R.P. (dBm) = E.I.R.P. (dBm) - 2.15.

Note 4: Part 27 does not specify the transmitter output power.

Subpart C Section 27.50 (b)(1) states that fixed and base station transmitters in the 757-758 MHz band must not exceed 1000 watts ERP.

Subpart C Section 27.50 (b)(9) states that for control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands and fixed stations transmitting in the 787-788 MHz and 805-806 MHz bands are limited to 30 watts ERP.

**Note 5:** The product's antenna is a special MIMO antenna with cross-polarization which is able to transmit and receive on both the vertical and horizontal polarizations at the same time, the MIMO antennas are essentially two antennas in one.

**Note 6:** According to KDB 662911, the MIMO directional gain is the gain of an individual antenna. **Note 7:** The DUT transmitter ports are completely uncorrelated. According to KDB 662911 the conducted power or E.R.P is measured on each port individually and it complies with the regulations.

**Note 8:** The product based on the interactive calculation of E.R.P limit value and conducted power, allows the use of an antenna with a maximum gain of 38.06dBi for 757-758MHz and 22.83dBi for 787-788MHz respectively, or an antenna of higher gain with the transmitter power tuned down so can meet the E.R.P requirement.





# 2.2. Occupied Bandwidth

#### 2.2.1. Definition

The client has declared the following occupied bandwidths for each channel bandwidth:

Frequency(MHz)	Channel Bandwidth(kHz)	Occupied Bandwidth(kHz)		
757.050	12.5, 25.0, 50.0	10.3, 21.1, 42.0		
787.950	12.5, 25.0, 50.0	10.3, 21.1, 42.0		

**Note:** The above data combined with uncertainty and rounding calculations are consistent with the actual test data.

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth.

#### 2.2.2. Test Description

Measurements have been made to verify these declared bandwidths using the generic frequencies that are listed in the table above.

The occupied bandwidth has been measured and compared against the occupied bandwidth declared by the client.

Measurements have been made of each modulation type using a spectrum analyzer operating in occupied bandwidth mode.



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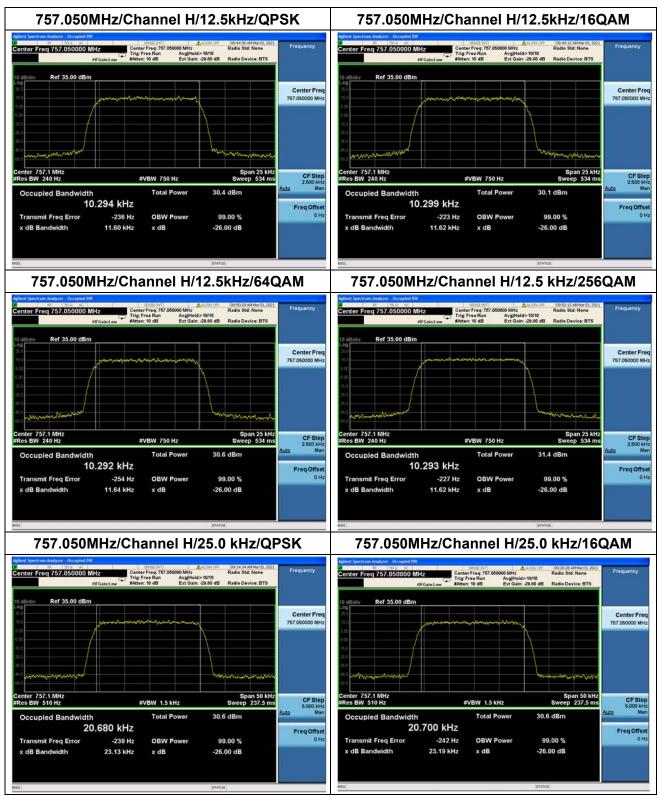
#### 2.2.3. Test Result

#### Nominal Frequency: 757.050 MHz

Tx Port	Channel Bandwidth(kHz)	Emission Type	Occupied Bandwidth(kHz)
		QPSK	10.294
	10.5	16QAM	10.299
	12.5	64QAM	10.292
		256QAM	10.293
		QPSK	20.680
Channel H	25.0	16QAM	20.700
	25.0	64QAM	20.892
		256QAM	20.807
		QPSK	41.153
	50.0	16QAM	41.435
		64QAM	41.126
		256QAM	41.327
	12.5	QPSK	10.297
		16QAM	10.293
		64QAM	10.288
		256QAM	10.278
		QPSK	20.608
Channel V	25.0	16QAM	20.624
Channel V	25.0	64QAM	20.765
		256QAM	20.630
		QPSK	41.331
	50.0	16QAM	41.344
	50.0	64QAM	41.194
		256QAM	41.192







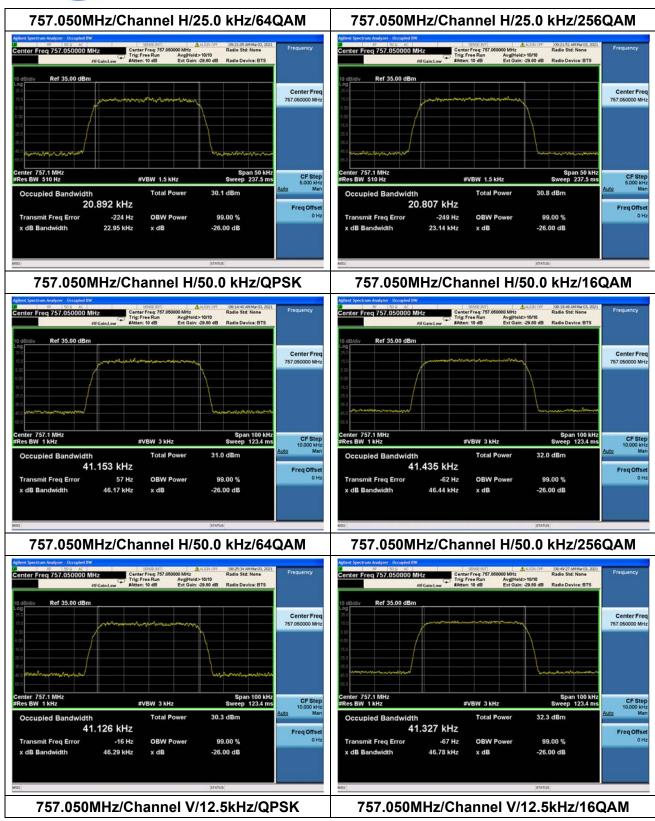
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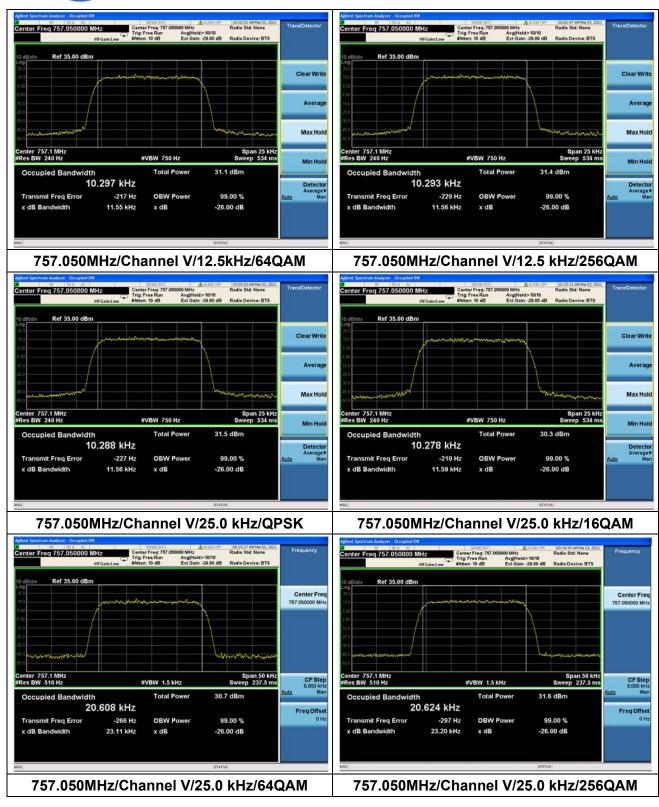
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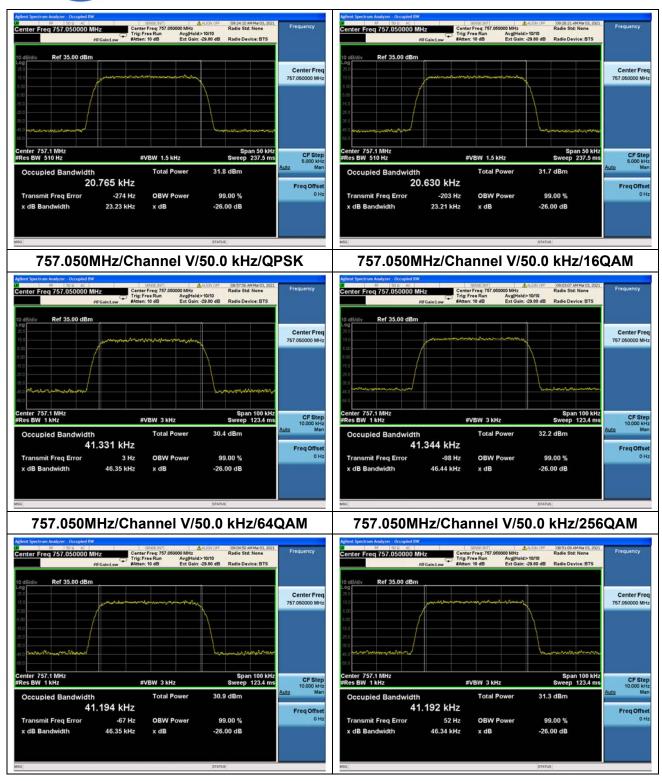
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#### Nominal Frequency: 787.950 MHz

Tx Port	Channel Bandwidth(kHz)	Emission Type	Occupied Bandwidth(kHz)
		QPSK	10.288
	12.5	16QAM	10.285
	12.5	64QAM	10.294
		256QAM	10.299
		QPSK	20.763
Channel H	25.0	16QAM	20.519
	25.0	64QAM	20.669
		256QAM	20.733
		QPSK	41.208
	50.0	16QAM	41.427
		64QAM	41.173
		256QAM	41.312
	40.5	QPSK	10.308
		16QAM	10.306
	12.5	64QAM	10.292
		256QAM	10.300
		QPSK	20.672
Channel V	25.0	16QAM	20.559
Channel V	25.0	64QAM	20.631
		256QAM	20.686
		QPSK	41.255
	50.0	16QAM	41.598
	50.0	64QAM	41.143
		256QAM	41.268



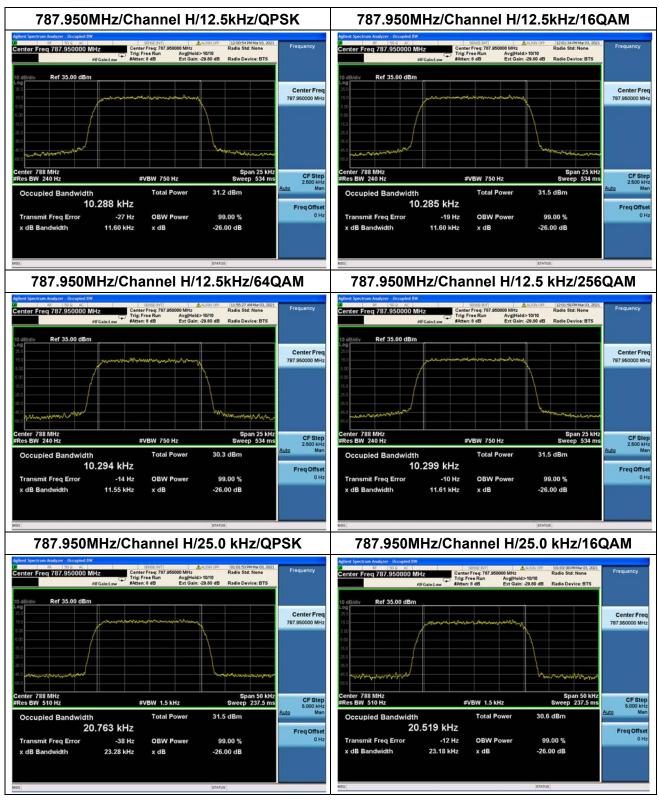
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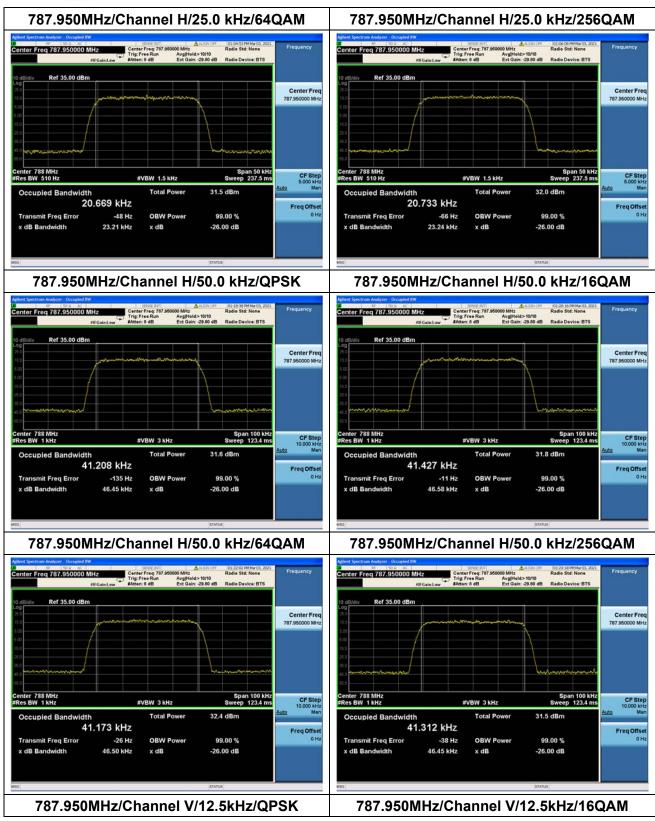
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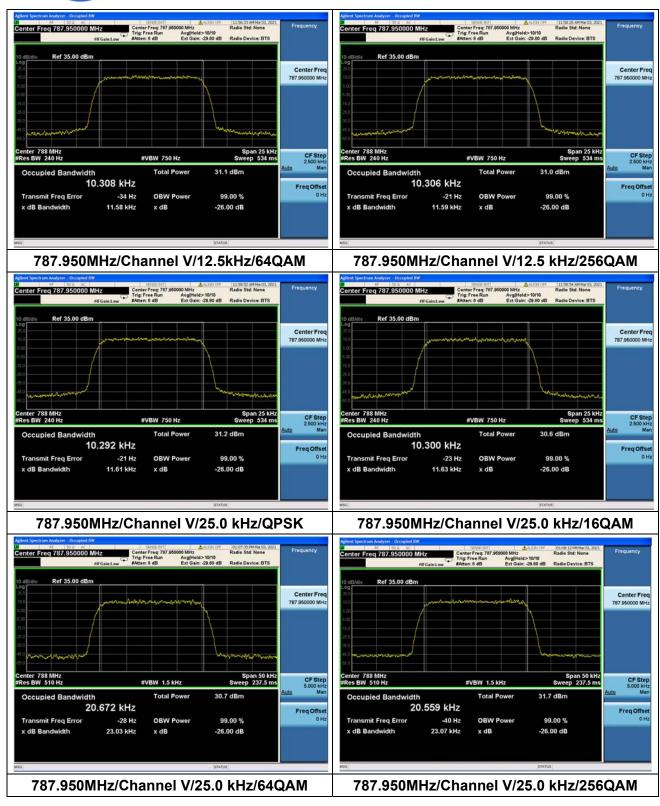
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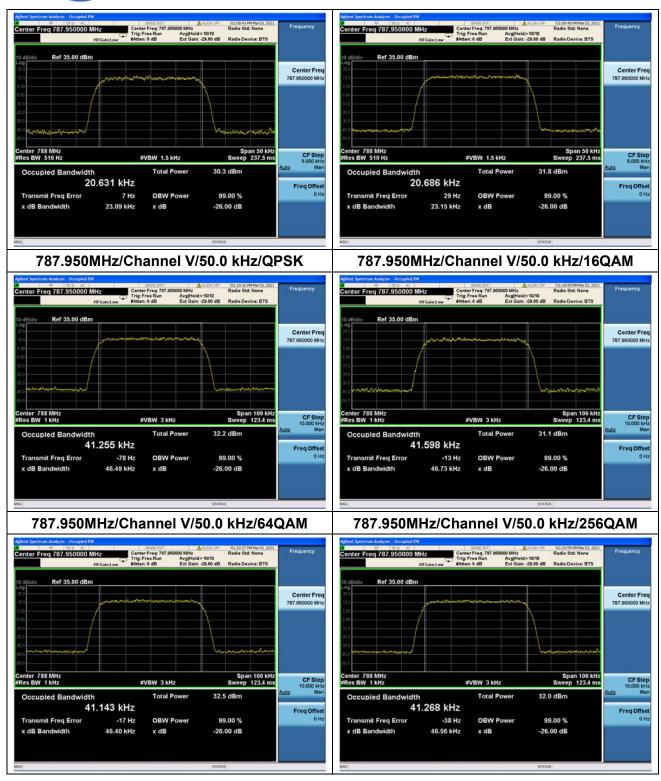
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### 2.3. Spurious Emissions At Antenna Terminals

#### 2.3.1. Test Requirement

According to FCC section 2.1051 and section 27.53(c). For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

Frequency (MHz)	Tx Port	Measurement Bandwidth	Spurious Span (MHz)	Limit (dBm)	Verdict
	Channel H	1MHz	30 - 8000	-13	Pass
	Channel V	6.25kHz	763-775 & 793-805	-46	Pass
757.050	Channel H	30kHz	Adjacent 100kHz Lower edge	-13	Pass
757.050	Channel V	30kHz	Adjacent 100kHz Lower edge	-13	Pass
	Channel H	30kHz	Adjacent 100kHz Upper edge	-13	Pass
	Channel V	30kHz	Adjacent 100kHz Upper edge	-13	Pass
	Channel H	1MHz	30 - 8000	-13	Pass
	Channel V	6.25kHz	763-775 & 793-805	-46	Pass
707.050	Channel H	30kHz	Adjacent 100kHz Lower edge	-13	Pass
787.950	Channel V	30kHz	Adjacent 100kHz Lower edge	-13	Pass
	Channel H	30kHz	Adjacent 100kHz Upper edge	-13	Pass
	Channel V	30kHz	Adjacent 100kHz Upper edge	-13	Pass

#### 2.3.2. Test Result

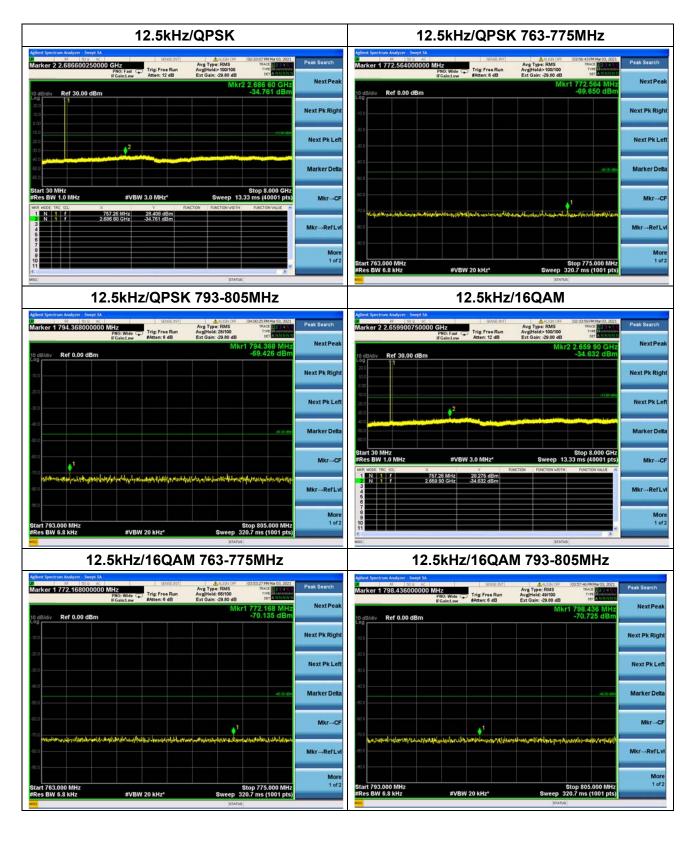


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#### Nominal Frequency: 757.050 MHz Tx Port: Channel H

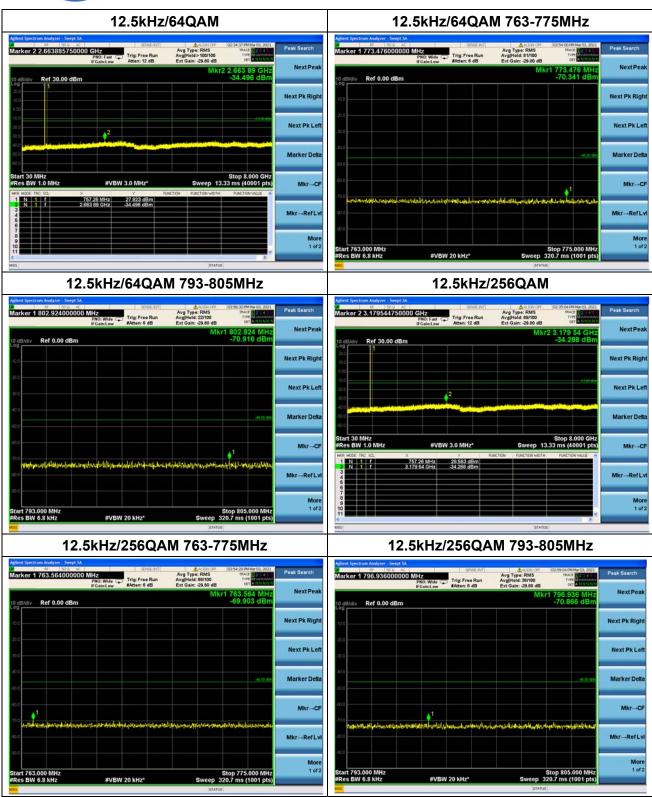


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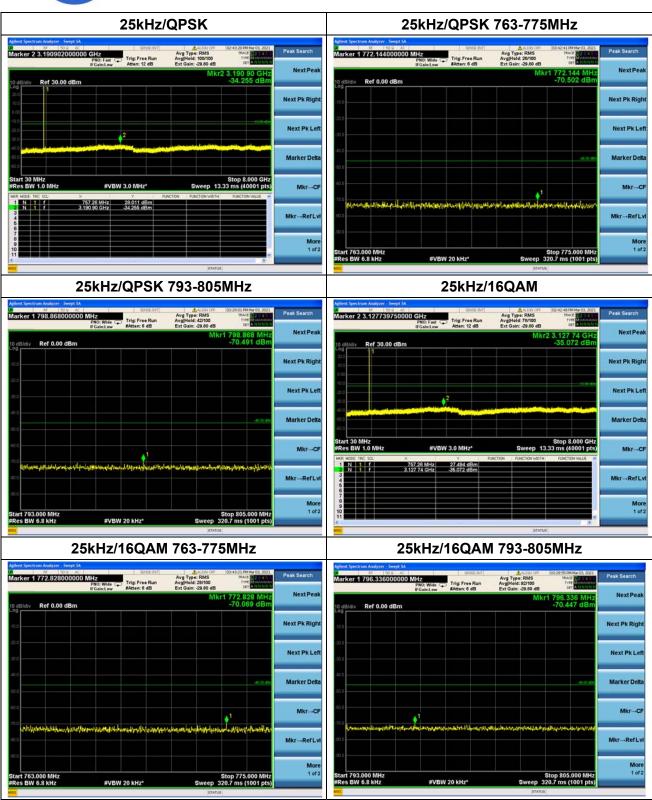
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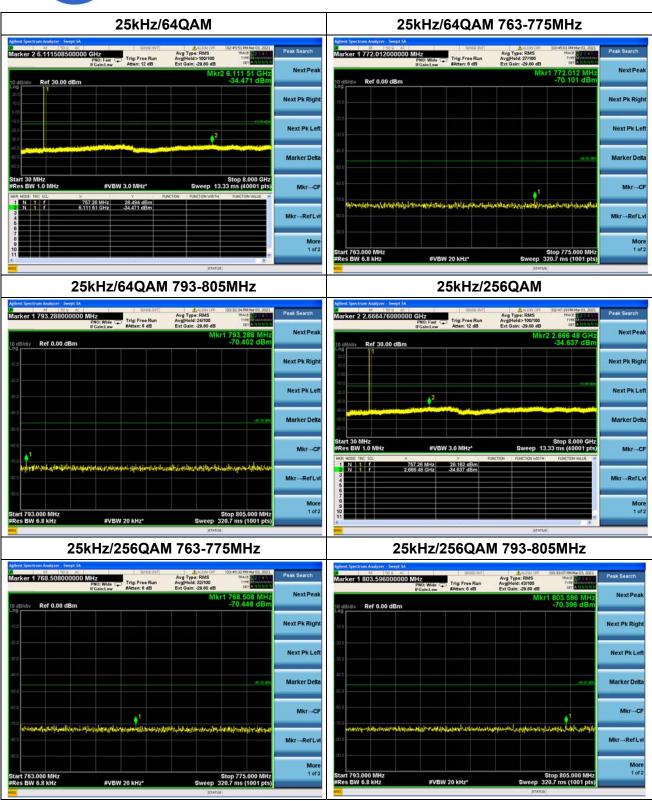
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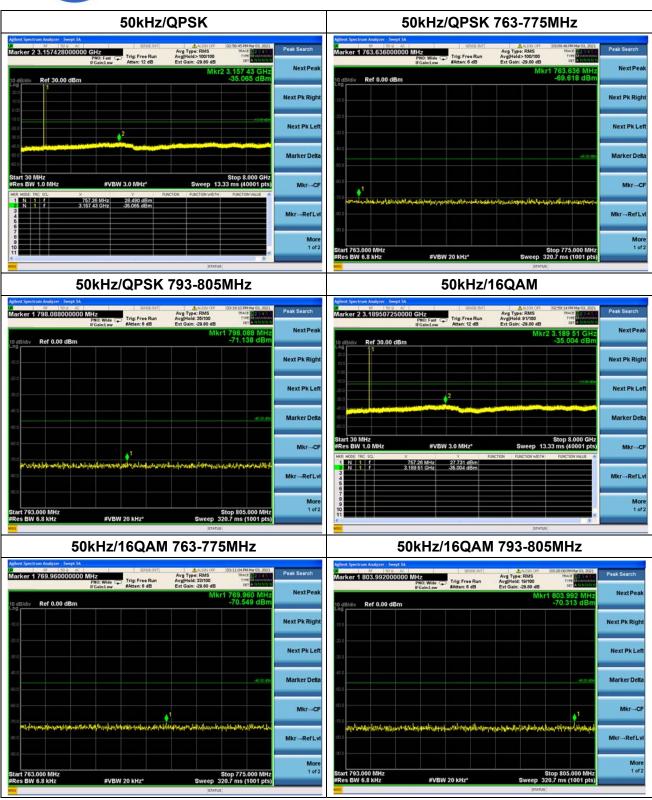
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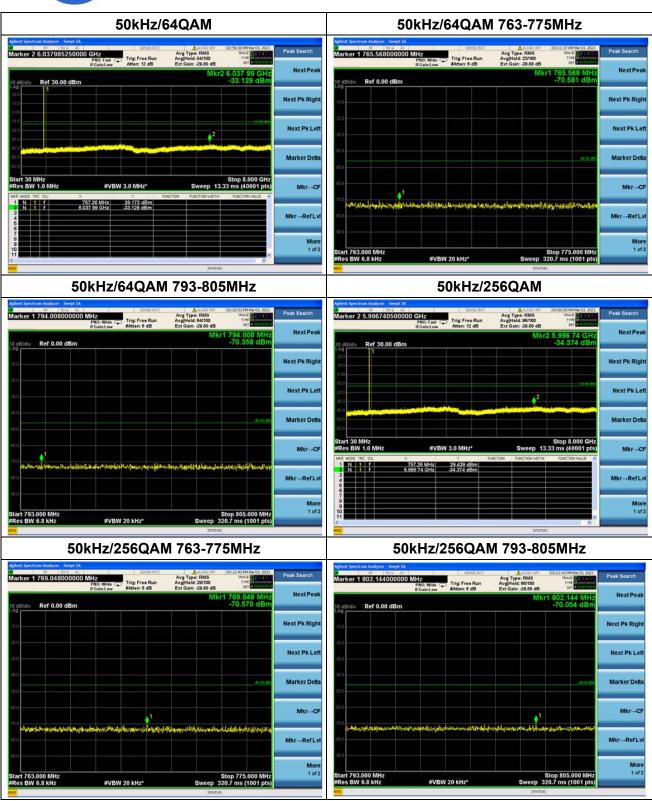


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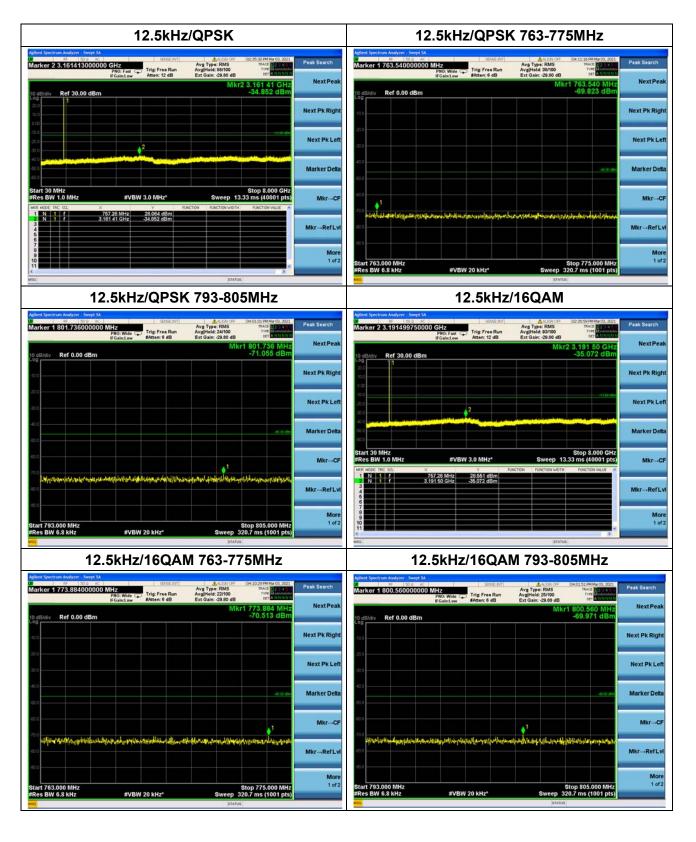
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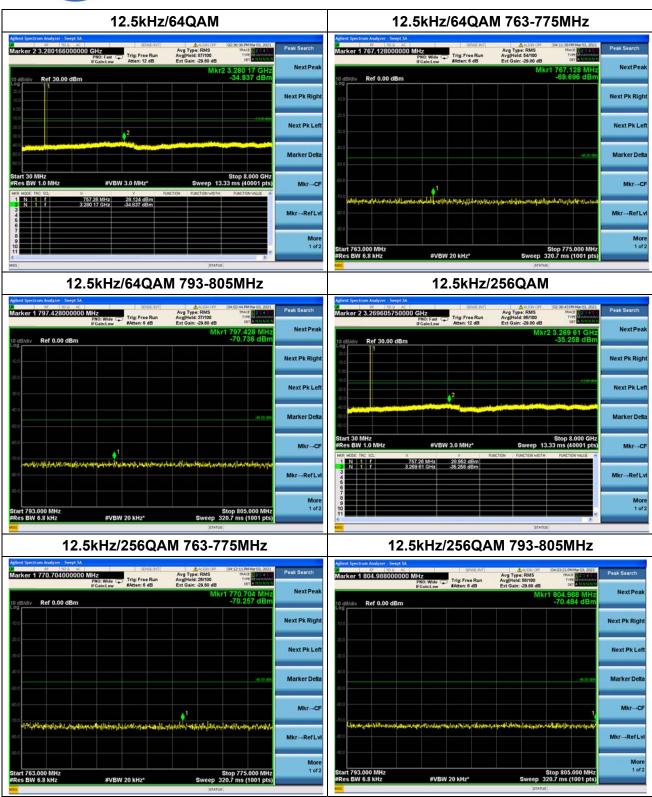
#### Nominal Frequency: 757.050 MHz Tx Port: Channel V



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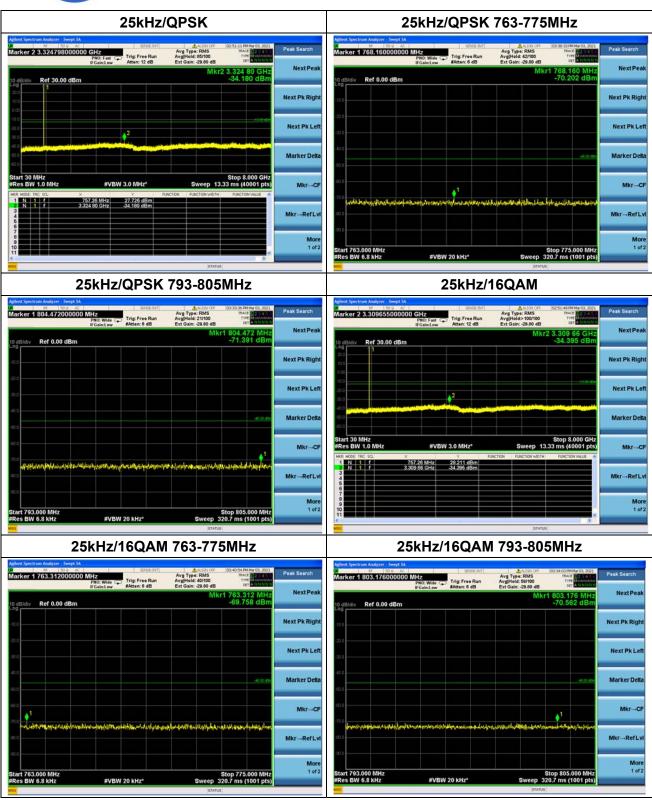
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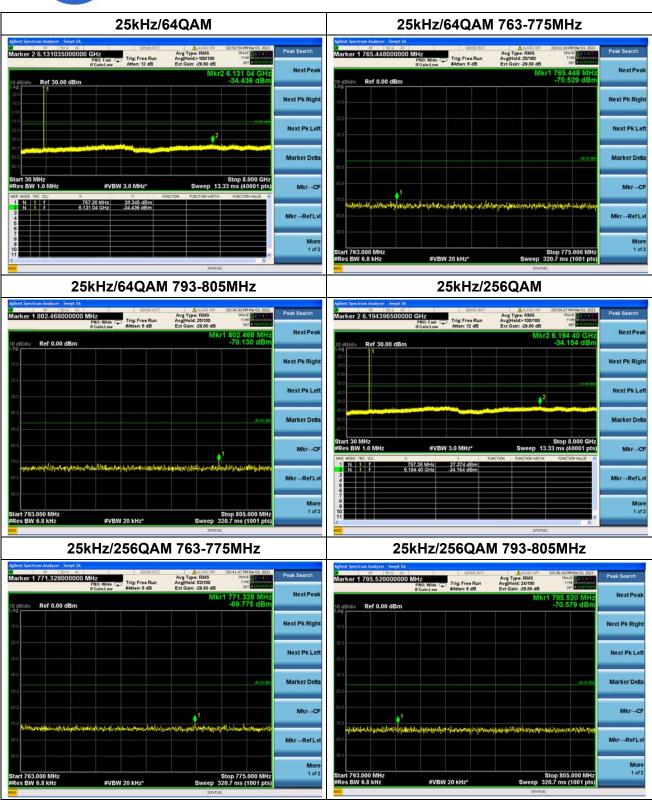
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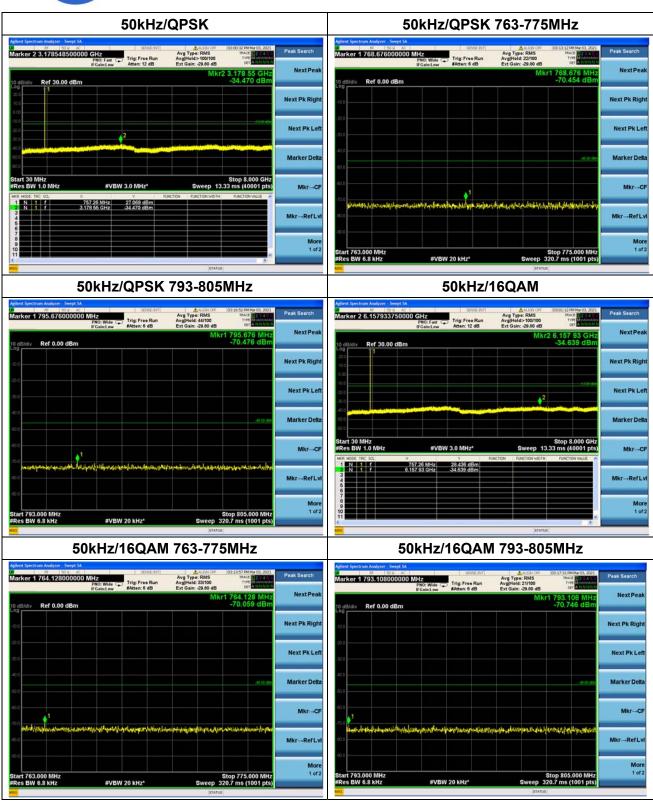
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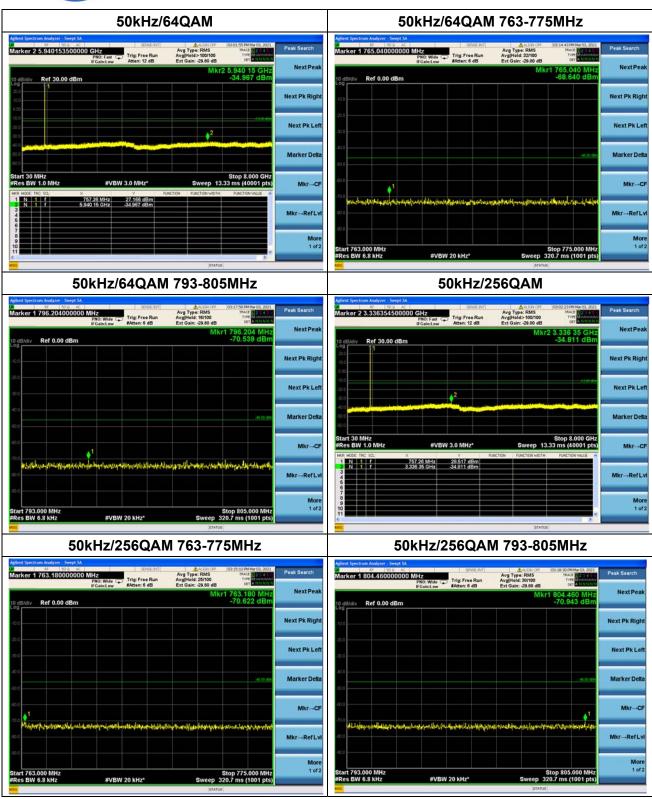
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