

Report No.: XEWA2310000070RG04

Rev.: 01

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TEST REPORT

Application No.: XEWA2310000070RG

Applicant: Quectel Wireless Solutions Co., Ltd.

Address of Applicant:

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Michael Plinting Changhai China 202022

Minhang District, Shanghai, China 200233

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai, China 200233

EUT Description: Wi-Fi & Bluetooth Module

Model No.: AF66T

Trade Mark: Quectel

FCC ID: XMR202309AF66T

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

Date of Receipt: 2023/09/26

Date of Test: 2023/10/11 to 2023/10/25

Date of Issue: 2023/11/13

Test Result : PASS *

Authorized Signature:

Peter Tan Regulatory Technical Manager



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^{*} In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2023/11/13		Original

Prepared By	(Leah Chen) / Test Engineer
Checked By	(Andy Yao) /Reviewer





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2 Test Summary

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement		15.203/15.407(a)		Clause 4.1	PASS
	Band I	15.407(a)(1)		Clause 4.5	
26dB Emission	Band II- A	15.407(a)(2)	No limit.		For Report
Bandwidth	Band II- C	15.407(a)(2)			Purpose
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS
99% Occupied Bandwidth	Band II-ABand II-CBand III	KDB 789033 D02§ D	No limit.	Clause 4.7	For Report Purpose
Duty Cycle	Band I Band II- A Band II- C Band III		No limit.	Clause 4.3	For Report Purpose
	Band I	15.407(a)(ii)	<1W		
Maximum Conducted Output Power	Band II- A Band II- C	15.407(a)(2)	<min{250mw,11dbm+10*lg(ebw)}< td=""><td>Clause 4.4</td><td>PASS</td></min{250mw,11dbm+10*lg(ebw)}<>	Clause 4.4	PASS
	Band III	15.407(a)(3)	< 1W		
	Band I	15.407(a)(ii)	< 17dBm/MHz		
Maximum Power Spectral Density	Band II- A Band II- C	15.407(a)(2)	<11dBm/MHz	<11dBm/MHz Clause 4.8	
	Band III	15.407(a)(3)	<30dBm/500KHz		
Radiated Spurious Emissions	Band I	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15- 5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).	Clause 4.9	PASS
	Band II- A	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-		PASS



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				1	
			5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		
	Band II-	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47- 5.725 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS
	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz &out-restricted:(PK) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS
Restricted bands around fundamental frequency	Band I Band II- A Band II- C Band III	15.407(b) 15.205/15.209		Clause 4.10	PASS
AC Power Line Conducted Emissions	Band I Band II- A Band II- C Band III	15.207		Clause 4.2	PASS
Frequency Stability Note 1:	Band I Band II- A Band II- C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A

Band I: 5150-5250MHz



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Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz



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3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.	
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233	
Manufacturer:	Quectel Wireless Solutions Co., Ltd.	
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233	

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Qiang Zhang, Ken Liu

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC -Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing

laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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3.4 General Description of EUT

EUT Description:	Wi-Fi & Blu	etooth Module	
Model No.:	AF66T		
Trade Mark:	Quectel		
Hardware Version:	R1.0		
Software Version:	NA		
Power Supply:	DC 12V		
. сис. сарр.у.	RF Conduc	eted	D1C23G416000834
SN:	RSE & AC		D1C23G416000499
	802.11a:	20 MHz chann	el bandwidth
	802.11n:	20 MHz / 40 M	Hz channel bandwidth
WLAN Mode Supported:	802.11ac:	20 MHz / 40 M	Hz / 80 MHz channel bandwidth
	802.11ax:	20 MHz / 40 M	Hz / 80 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz		
	802.11a:	OFDM (BPSK,	QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK,	QPSK, 16QAM, 64QAM)
Modulation Type:	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)	
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)	
	20MHz:	802.11a/n(HT2	20)/ac(VHT20)/ax(HE20)
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)/ax(HE40)	
	80MHz:	802.11ac(VHT	80)/ax(HE80)
Antenna Type:	Dipole Ante	enna	
Antenna Gain:	5150MHz to 5250MHz: 1.14dBi(Ant0); 1.14dBi(Ant1); 5250MHz to 5350MHz: 1.00dBi(Ant0); 1.00dBi(Ant1); 5470MHz to 5725MHz: 0.60dBi(Ant0); 0.60dBi(Ant1); 5725MHz to 5850MHz: 0.95dBi(Ant0); 0.95dBi(Ant1); Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
Smart System:	SISO 802.11a/n/ac/ax MIMO 802.11n/ac/ax:2Tx & 2Rx		



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	☐ Diversity CDD:802.11a: 2Tx & 2Rx		
TPC Function:	⊠Support,		
Use Conditions:	Indoor		
RF Cable:	1.5dB		
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			

Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:					
Mode	Channel	Frequency(MHz)			
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5180			
	The Middle channel	5200			
	The Highest channel	5240			
JEEE 000 44 / / 40141	The Lowest channel	5190			
IEEE 802.11n/ac/ax 40MHz	The Highest channel	5230			
IEEE 802.11ac/ax 80MHz	The Middle channel	5210			

For UNII Band II-A:				
Mode	Channel	Frequency(MHz)		
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5260		
	The Middle channel	5280		
	The Highest channel	5320		
1555 000 44 de de 400411	The Lowest channel	5270		
IEEE 802.11n/ac/ax 40MHz	The Highest channel	5310		
IEEE 802.11ac/ax 80MHz	The Middle channel	5290		



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For UNII Band II-C:						
Mode	Channel	Frequency(MHz)				
	The Lowest channel	5500				
IEEE 802.11a/n/ac/ax 20MHz	The Middle channel	5580				
	The Highest channel	5700				
	The Lowest channel	5510				
IEEE 802.11n/ac/ax 40MHz	The Middle channel	5550				
	The Highest channel	5670				
IEEE 802.11ac/ax 80MHz	The Middle channel	5530				

For UNII Band III:						
Mode	Channel	Frequency(MHz)				
	The Lowest channel	5745				
IEEE 802.11a/n/ac/ax 20MHz	The Middle channel	5785				
	The Highest channel	5825				
IEEE 902 445/00/04 40MHz	The Lowest channel	5755				
IEEE 802.11n/ac/ax 40MHz	The Highest channel	5795				
IEEE 802.11ac/ax 80MHz	The Middle channel	5775				



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Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddle Channel	144 ^[1]	5720	142 ^[2]	5710
Straddle Charmer	138 ^[3]	5690		
	120 ^[1]	5600	124 ^[1]	5620
TDWR Channel	128 ^[1]	5640	118 ^[2]	5590
	126 ^[2]	5630	122 ^[3]	5610

Note:

- 1. The above Frequency and Channel were 802.11a, 802.11n HT20, 802.11ac VHT20 and 802.11ax HE20.
- 2. The above Frequency and Channel were 802.11n HT40, 802.11ac VHT40 and 802.11ax HE40.
- 3. The above Frequency and Channel were 802.11ac VHT80 and 802.11ax HE80.

Remark:

1. 802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power > partial RU, therefore the full RU perform full test to cover partial RU except for PSD/ Duty cycle/BE.



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3.5 Test Environment and Mode

Environment Parameter	96~101 kPa Selected Values During Tests				
Relative Humidity	40-60 % RH Ambient				
Value	Temperature(℃)	Voltage(V)			
NTNV	22~25	3.85			
Damarl:					

Remark:

NV: Normal VoltageNT: Normal Temperature

3.6 Description of Support Units

Description	Manufacturer	Model No.			
Mother board	Quectel	N/A			
Adapter	Quectel	N/A			
Test Antenna	Quectel	YE0038AA			
Remark: All above the information of table are provided by client.					

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	CDD/MIMO - Data Rate
802.11a	6 Mbps	12 Mbps
802.11n (HT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11n (HT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	MCS0 (58.5 Mbps)
802.11ax (HE 20)	MCS0 (8 Mbps)	MCS0 (16 Mbps)
802.11ax (HE 40)	MCS0 (16 Mbps)	MCS0 (32 Mbps)
802.11ax (HE 80)	MCS0 (34 Mbps)	MCS0 (68 Mbps)



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15 Section 15.203

The antenna is Dipole Antenna and no consideration of replacement. The best case gain of the antenna is

5150MHz to 5250MHz: 1.14dBi(Ant0); 1.14dBi(Ant1);* 5250MHz to 5350MHz: 1.00dBi(Ant0); 1.00dBi(Ant1);* 5470MHz to 5725MHz: 0.60dBi(Ant0); 0.60dBi(Ant1);* 5725MHz to 5850MHz: 0.95dBi(Ant0); 0.95dBi(Ant1);*

* Note

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,
 Array Gain = 10 log(N_{ANT}/N_{SS} = 1) dB.

For power measurements on IEEE 802.11 devices:
 Array Gain = 0 dB (i.e., no array gain) for N_{ANT} ≤ 4;

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have the same gain:

Operation Frequency	ANT Gain0 (dBi)	ANT Gain1 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	1.14	1.14	1.14	4.15	0	0
5250MHz to 5350MHz	1.00	1.00	1.00	4.01	0	0
5470MHz to 5725MHz	0.60	0.60	0.60	3.61	0	0
5725MHz to 5850MHz	0.95	0.95	0.95	3.96	0	0

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain -6dBi, (Directional gain <6dBi) =0 PSD Limit Reduction = Directional gain -6dBi, (Directional gain <6dBi) =0 5250MHz to 5350MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0 PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0 5470MHz to 5725MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0 PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0 5725MHz to 5850MHz:

Power Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) = 0 PSD Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) = 0



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207					
Test Method:	ANSI C63.10-2020 Section 6.2					
Test Frequency Range:	150kHz to 30MHz					
Receiver Setup:	RBW = 9kHz, VBW = 30kHz					
Limit:	Fraguenov rongo (MUz)	Limit (d	BuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the log	arithm of the frequency.				
Test Procedure:	room. 2) The EUT was connected impedance. The power connected to a second plane in the same was multiple socket outlet single LISN provided. 3) The tabletop EUT was ground reference plane placed on the horizor. 4) The test was perform of the EUT shall be overtical ground reference plane. The unit under test and be mounted on top of the between the closest the EUT and associal	* Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shie				



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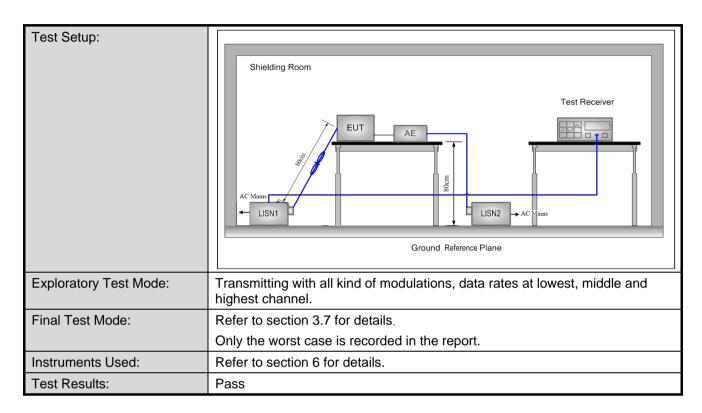
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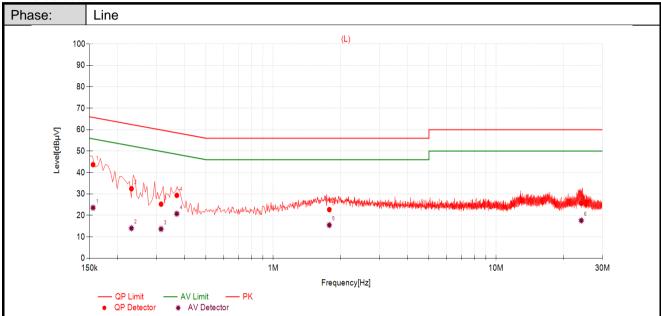
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Data	List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1555	9.86	33.83	43.69	65.70	22.01	13.72	23.58	55.70	32.12	PASS
2	0.2312	9.86	22.60	32.46	62.41	29.95	4.15	14.01	52.41	38.40	PASS
3	0.3140	9.90	15.36	25.26	59.87	34.61	3.76	13.66	49.87	36.21	PASS
4	0.3695	9.87	19.50	29.37	58.51	29.14	10.91	20.78	48.51	27.73	PASS
5	1.7861	9.84	12.87	22.71	56.00	33.29	5.63	15.47	46.00	30.53	PASS
6	24.1338	10.26	15.34	25.60	60.00	34.40	7.36	17.62	50.00	32.38	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dB μ V] Value[dB μ V]



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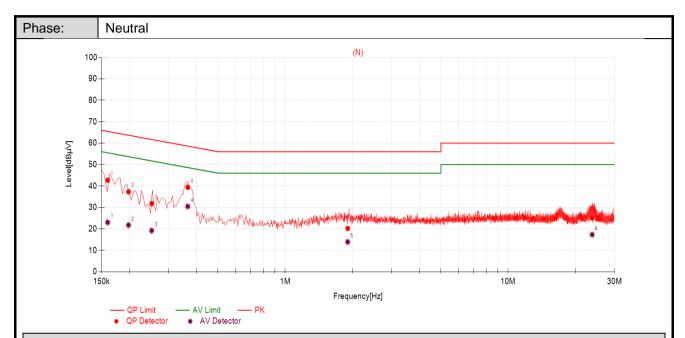
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Data	List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1598	9.79	32.95	42.74	65.47	22.73	13.26	23.05	55.47	32.42	PASS
2	0.1981	9.85	27.44	37.29	63.69	26.40	11.90	21.75	53.69	31.94	PASS
3	0.2518	9.81	21.98	31.79	61.70	29.91	9.36	19.17	51.70	32.53	PASS
4	0.3657	9.80	29.60	39.40	58.60	19.20	20.65	30.45	48.60	18.15	PASS
5	1.9081	9.84	10.38	20.22	56.00	35.78	4.08	13.92	46.00	32.08	PASS
6	23.8576	10.29	14.81	25.10	60.00	34.90	7.01	17.30	50.00	32.70	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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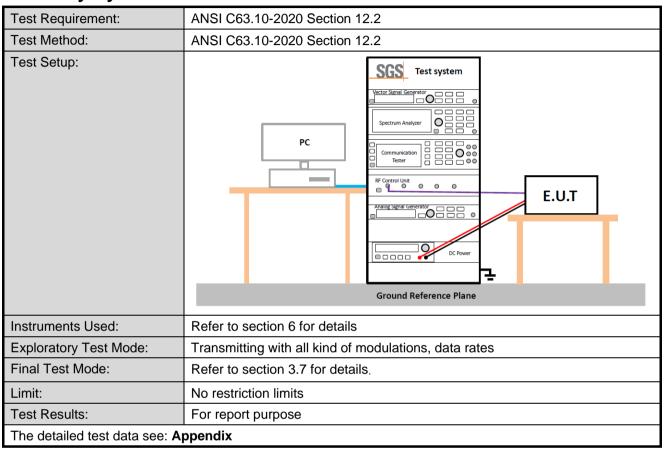


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4.3 Duty Cycle





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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Se	47 CFR Part 15 Section 15.407(a)				
Test Method:	ANSI C63.10-2020	Section 12.4.3.2				
Test Setup:	Power meter O		d Reference Plane	E.U.T		
		Groun	a note once i fane			
	provided that the g	easurement using a y be performed using ate parameters are en the EUT is trans measurement is m	a gated RF averaing a wideband gate adjusted such the smitting at its maxed only during t	ated RF power meter nat the power is timum power control		
Test Instruments:	Refer to section 6 f	or details.				
Exploratory Test Mode:	Transmitting with a	II kind of modulatio	ns, data rates			
Final Test Mode:	Refer to section 3.7	7 for details.				
Limit:	Frequency Band	Limit				
	5150-5250MHz	Not exceed 1W(3	0dBm)			
	5250-5350MHz	The lesser of 250	mW(23.98dBm)	or 11+ 10logB		
	5470-5725MHz	The lesser of 250	mW(23.98dBm)	or 11+ 10logB		
	5725-5850MHz	Not exceed 1W(3	B0dBm)			
	*Where B is the 26dB emission bandwidth in MHz					
Test Results:	Pass					
The detailed test data see: A	ppendix					



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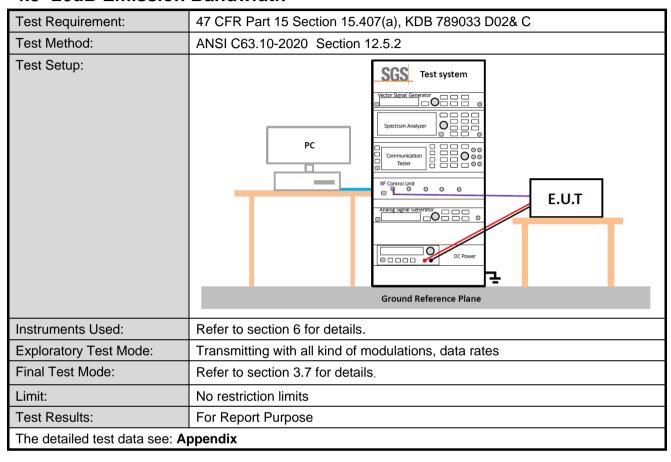


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4.5 26dB Emission Bandwidth





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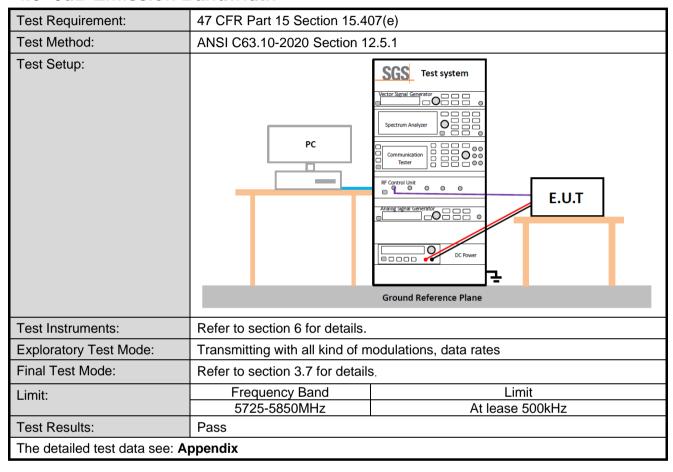


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4.6 6dB Emission Bandwidth





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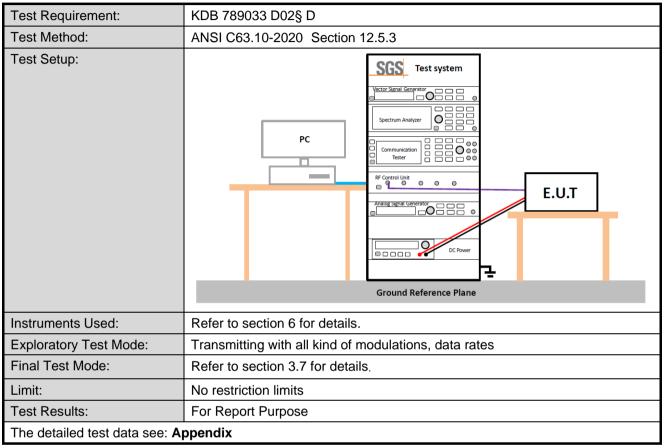


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4.7 99% Occupied Bandwidth





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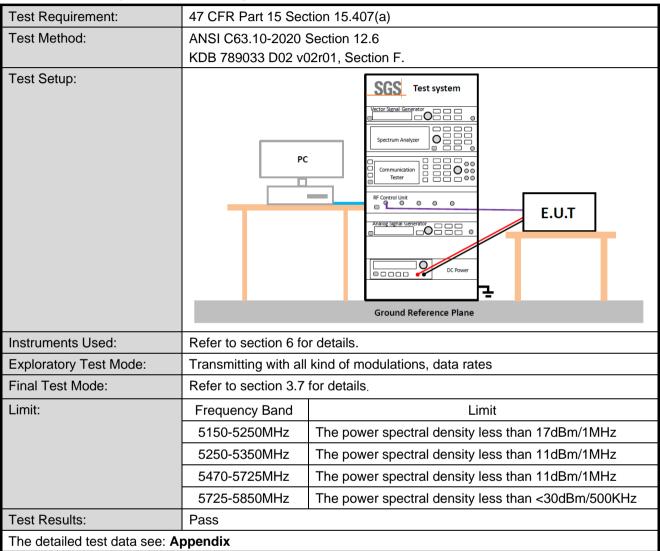


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4.8 Power Spectral Density





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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205/15.209/15.407(b)
Test Method:	ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

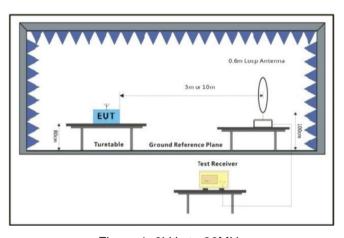
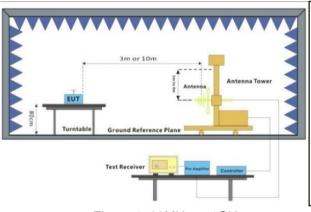


Figure 1. 9kHz to 30MHz



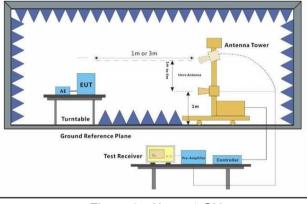


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.



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d.	The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e.	For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
•	The test week and the second to Best Betest Free Consultant Consultant

- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the outermost channels.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.
- j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
- k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- 1. At a measurement distance of 1 meter the limit line was increased by $20^{\circ}LOG(3/1) = 9.54 \text{ dB}$.

Test Configuration:

Measurements below 30MHz

- RBW = 10 kHz
- VBW = 30 kHz
- Detector = Peak & Average & Quasi-peak
- Trace mode = max hold

Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Quasi-peak
- Trace mode = max hold

Peak Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- · Detector = Peak
- Sweep time = auto
- Trace mode = max hold

Average Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Exploratory Test Mode:

Transmitting with all kind of modulations, data rates.



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Final Test Mode:	Refer to section 3.7 for details.
	For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix

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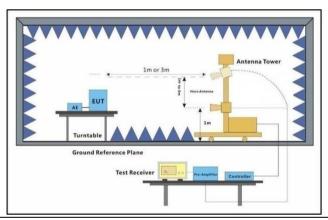
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.	205/15.209/15.407(b)	
Test Method:	ANSI C63.10-2020 Section	12.7	
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
	Above IGHZ	74.0	Peak Value

Test Setup:



Test Procedure:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and



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	 modulation for lowest and highest channel g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	 Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	: Appendix



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸ GHz
2	Duty cycle	± 0.37%
3	Occupied Bandwidth ± 0.2%	
4	RF conducted power	± 0.21dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	Conduction Emission	± 3.0dB (150kHz to 30MHz)
		± 4.6dB (9kHz to 30MHz)
		± 4.9dB (30MHz to 1GHz)
8	Radiated Emission	± 4.9dB (1GHz to 6GHz)
		± 4.7dB (6GHz to 18GHz)
		± 5.26dB (Above 18GHz)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

			_		
		RF Tes	t System		
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
MXA signal analyzer	e l Adilent		XAW01-06-07	2023/02/16	2024/02/15
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2023/02/16	2024/02/15
Measurement Software	Tonscend	JS1120-3 (3.2.18)	XAW02-14-01	NCR	NCR
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR
Power Meter	Anritsu	ML2495A	XAW01-25-03	2023/08/30	2024/08/29
Power Supply	Agilent	66311B	XAW01-17-01	2023/02/16	2024/02/15
Temperature and humidity meter	MingGao	Т809	XAW01-01-16	2023/09/04	2024/09/03

	CE Test System					
Test Equipment Manufacturer		Model No. Inventory No.		Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room Brilliant-emc		N/A	XAW04-03-01	N/A	N/A	
Test receiver ROHDE&SCHWARZ		ESR	XAW01-08-01	2023/08/30	2024/08/29	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29	
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR	
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29	



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RSE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/d d)	Cal.Due date (yyyy/mm/d d)		
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08		
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15		
Spectrum Analyzer	ROHDE &SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14		
Test receiver	ROHDE &SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29		
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27		
Receiving antenna(1GHz~18GH z)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27		
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22		
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR		
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR		
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR		
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR		
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14		
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29		
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29		
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03		
Radio communication analyzer	ROHDE&SCH WARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15		
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR		
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25		



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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26dB Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
	Ant0	5180	18.560	5170.720	5189.280	
	Ant1	5180	18.640	5170.680	5189.320	
	Ant0	5200	18.640	5190.640	5209.280	
	Ant1	5200	19.400	5190.040	5209.440	
	Ant0	5240	18.560	5230.720	5249.280	
	Ant1	5240	18.800	5230.560	5249.360	
	Ant0	5260	18.680	5250.840	5269.520	
	Ant1	5260	18.760	5250.800	5269.560	
	Ant0	5280	18.400	5270.800	5289.200	
	Ant1	5280	18.920	5270.520	5289.440	
	Ant0	5320	18.720	5310.480	5329.200	
	Ant1	5320	19.200	5310.120	5329.320	
	Ant0	5500	18.520	5490.720	5509.240	
	Ant1	5500	18.600	5490.880	5509.480	
44 000	Ant0	5580	18.960	5570.440	5589.400	
11a-CDD	Ant1	5580	18.760	5570.640	5589.400	
	Ant0	5700	18.680	5690.600	5709.280	
	Ant1	5700	18.760	5690.680	5709.440	
	Ant0	5720	18.840	5710.480	5729.320	
	Ant1	5720	19.040	5710.480	5729.520	
	Ant0	5720 UNII-2C	14.52	5710.480	5725	
	Ant1	5720 UNII-2C	14.52	5710.480	5725	
	Ant0	5720 UNII-3	4.32	5725	5729.320	
	Ant1	5720 UNII-3	4.52	5725	5729.520	For
	Ant0	5745	18.560	5735.720	5754.280	Report
	Ant1	5745	18.560	5735.680	5754.240	Purpose
	Ant0	5785	18.600	5775.680	5794.280	
	Ant1	5785	19.480	5775.120	5794.600	
	Ant0	5825	18.600	5815.880	5834.480	
	Ant1	5825	18.840	5815.760	5834.600	
	Ant0	5180	19.800	5170.120	5189.920	
	Ant1	5180	20.120	5170.040	5190.160	
	Ant0	5200	19.880	5190.120	5210.000	
	Ant1	5200	19.880	5190.120	5210.000	
	Ant0	5240	19.960	5230.000	5249.960	
	Ant1	5240	20.080	5229.880	5249.960	
	Ant0	5260	19.880	5250.200	5270.080	
	Ant1	5260	19.800	5250.200	5269.960	
	Ant0	5280	20.160	5269.760	5289.920	
11n20MIMO	Ant1	5280	19.840	5270.000	5289.840	
	Ant0	5320				
	Ant1	5320	19.760 19.720	5310.160 5310.120	5329.920 5329.840	
	Ant0	5500	19.720	5490.120	5509.960	
		5500				
	Ant1	5580	19.720 19.880	5490.320	5510.040 5589.880	
	Ant0			5570.000		
	Ant1	5580	19.960	5569.920	5589.880	
	Ant0	5700	19.560	5690.120	5709.680	
	Ant1	5700	20.120	5689.960	5710.080	



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-		T			
	Ant0	5720	20.240	5710.040	5730.280
	Ant1	5720	20.120	5710.080	5730.200
	Ant0	5720_UNII-2C	14.96	5710.040	5725
	Ant1	5720_UNII-2C	14.92	5710.080	5725
	Ant0	5720_UNII-3	5.28	5725	5730.280
	Ant1	5720_UNII-3	5.2	5725	5730.200
	Ant0	5745	19.600	5735.080	5754.680
	Ant1	5745	19.720	5735.200	5754.920
	Ant0	5785	19.760	5775.160	5794.920
	Ant1	5785	19.880	5775.120	5795.000
	Ant0	5825	19.760	5815.160	5834.920
	Ant1	5825	19.920	5814.960	5834.880
	Ant0	5190	39.600	5169.920	5209.520
	Ant1	5190	39.440	5170.320	5209.760
	Ant0	5230	39.200	5210.240	5249.440
	Ant1	5230	39.280	5210.480	5249.760
	Ant0	5270	39.200	5250.480	5289.680
	Ant1	5270	39.280	5250.400	5289.680
	Ant0	5310	39.280	5290.320	5329.600
	Ant1	5310	38.880	5290.720	5329.600
	Ant0	5510	39.520	5490.240	5529.760
	Ant1	5510	39.040	5490.560	5529.600
	Ant0	5550	39.600	5530.000	5569.600
	Ant1	5550	39.680	5530.160	5569.840
OMIMO	Ant0	5670	39.760	5649.920	5689.680
	Ant1	5670	39.520	5650.320	5689.840
	Ant0	5710	39.360	5690.320	5729.680
	Ant1	5710	39.200	5690.400	5729.600
	Ant0	5710 UNII-2C	34.68	5690.320	5725
	Ant1	5710 UNII-2C	34.6	5690.400	5725
	Ant0	5710 UNII-3	4.68	5725	5729.680
	Ant1	5710 UNII-3	4.6	5725	5729.600
	Ant0	5755	39.520	5735.160	5774.680
	Ant1	5755	39.360	5735.240	5774.600
	Ant0	5795	38.880	5775.560	5814.440
	Ant1	5795	39.040	5775.400	5814.440
	Ant0	5180	20.360	5169.760	5190.120
	Ant1	5180	20.080	5169.880	5189.960
	Ant0	5200	20.400	5189.720	5210.120
	Ant1	5200	20.240	5190.040	5210.280
	Ant0	5240	20.160	5229.760	5249.920
	Ant1	5240	19.880	5230.040	5249.920
	Ant0	5260	19.720	5250.040	5269.840
	Ant1	5260	19.920	5250.040	5269.960
20MIMO	Ant0	5280	19.840	5270.040	5289.880
OIVIIIVIO.	Ant1	5280	19.720	5270.040	5289.800
		5320	19.720	5270.080	
	Ant0				5329.960
	Ant1	5320	20.000	5310.040	5330.040
	Ant0	5500	19.760	5490.120	5509.880
	Ant1	5500	20.040	5490.040	5510.080
	Ant0	5580	20.000	5570.000	5590.000
	Ant1	5580	20.160	5570.000	5590.160
	Ant0	5700	19.840	5690.080	5709.920



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	Δ	F700	40.000	F000 000	5740.000
<u> </u>	Ant1	5700	19.920	5690.080	5710.000
<u> </u>	Ant0	5720	19.880	5710.320	5730.200
<u> </u>	Ant1	5720	20.160	5710.000	5730.160
<u> </u>	Ant0	5720_UNII-2C	14.68	5710.320	5725
_	Ant1	5720_UNII-2C	15	5710.000	5725
Ļ	Ant0	5720_UNII-3	5.2	5725	5730.200
_	Ant1	5720_UNII-3	5.16	5725	5730.160
<u> </u>	Ant0	5745	19.600	5735.160	5754.760
_	Ant1	5745	19.840	5734.960	5754.800
	Ant0	5785	19.520	5775.200	5794.720
	Ant1	5785	19.680	5775.200	5794.880
	Ant0	5825	19.760	5815.240	5835.000
	Ant1	5825	19.600	5815.240	5834.840
	Ant0	5190	39.360	5170.160	5209.520
	Ant1	5190	39.120	5170.400	5209.520
	Ant0	5230	39.200	5210.320	5249.520
Ţ	Ant1	5230	39.200	5210.320	5249.520
Ţ	Ant0	5270	39.360	5250.320	5289.680
	Ant1	5270	38.880	5250.640	5289.520
ļ	Ant0	5310	38.880	5290.640	5329.520
ļ	Ant1	5310	39.120	5290.480	5329.600
Ī	Ant0	5510	38.960	5490.480	5529.440
Ī	Ant1	5510	38.880	5490.640	5529.520
	Ant0	5550	39.440	5530.240	5569.680
	Ant1	5550	38.720	5530.640	5569.360
1ac40MIMO	Ant0	5670	40.160	5649.760	5689.920
	Ant1	5670	39.360	5650.240	5689.600
	Ant0	5710	39.440	5690.240	5729.680
	Ant1	5710	39.120	5690.400	5729.520
	Ant0	5710 UNII-2C	34.76	5690.240	5725
-	Ant1	5710 UNII-2C	34.6	5690.400	5725
+	Ant0	5710 UNII-3	4.68	5725	5729.680
	Ant1	5710_UNII-3	4.52	5725	5729.520
	Ant0	5755	39.600	5735.080	5774.680
	Ant1	5755	39.520	5735.060	5774.760
	Ant0	5795	38.960	5775.320	5814.280
	Ant1	5795	38.880	5775.560	5814.440
-		5210	81.120		
	Ant0 Ant1	5210	81.440	5169.360 5169.360	5250.480 5250.800
			81.920		
	Ant0	5290 5290		5248.880	5330.800
	Ant1	•	80.960	5249.840	5330.800
	Ant0	5530	81.280	5489.520	5570.800
	Ant1	5530	80.960	5489.680	5570.640
	Ant0	5610	81.760	5569.040	5650.800
1ac80MIMO	Ant1	5610	81.920	5569.520	5651.440
Tacoomino	Ant0	5690	81.760	5649.040	5730.800
	Ant1	5690	81.120	5649.200	5730.320
	Ant0	5690_UNII-2C	75.96	5649.040	5725
	Ant1	5690_UNII-2C	75.8	5649.200	5725
	Ant0	5690_UNII-3	5.8	5725	5730.800
	Ant1	5690_UNII-3	5.32	5725	5730.320
	Ant0	5775	81.280	5734.360	5815.640
	Ant1	5775	80.960	5734.520	5815.480



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	T	, · · · · · · · · · · · · · · · · · · ·			•
	Ant0	5180	20.560	5169.800	5190.360
	Ant1	5180	20.400	5169.840	5190.240
	Ant0	5200	20.680	5189.640	5210.320
	Ant1	5200	20.640	5189.720	5210.360
	Ant0	5240	20.480	5229.800	5250.280
	Ant1	5240	20.960	5229.440	5250.400
	Ant0	5260	20.800	5249.720	5270.520
	Ant1	5260	20.920	5249.760	5270.680
	Ant0	5280	21.120	5269.680	5290.800
	Ant1	5280	20.560	5269.680	5290.240
ŀ	Ant0	5320	20.920	5309.600	5330.520
	Ant1	5320	21.160	5309.600	5330.760
	Ant0	5500	20.640	5489.600	5510.240
	Ant1	5500	20.640	5489.760	5510.400
	Ant0	5580	20.760	5569.600	5590.360
11ax20MIMO	Ant1	5580	20.560	5569.840	5590.400
	Ant0	5700	20.520	5689.640	5710.160
	Ant1	5700	20.240	5689.800	5710.100
	Ant0	5720	20.720	5709.760	5730.480
	Ant1	5720	20.720	5709.560	5730.520
	Ant0	5720 UNII-2C	15.24	5709.760	5725
	Ant1	5720_UNII-2C	15.44	5709.560	5725
	Ant0	5720_UNII-2C	5.48	5725	5730.480
		5720_UNII-3	5.52	5725	5730.460
	Ant1				
	Ant0	5745	20.560	5734.680	5755.240
	Ant1	5745	20.640	5734.600	5755.240
	Ant0	5785	20.600	5774.640	5795.240
	Ant1	5785	20.560	5774.680	5795.240
	Ant0	5825	20.640	5814.880	5835.520
	Ant1	5825	20.800	5814.600	5835.400
	Ant0	5190	40.480	5169.520	5210.000
	Ant1	5190	39.920	5170.000	5209.920
	Ant0	5230	40.080	5209.920	5250.000
	Ant1	5230	40.400	5209.840	5250.240
11ax40MIMO	Ant0	5270	40.160	5250.080	5290.240
	Ant1	5270	39.680	5250.240	5289.920
	Ant0	5310	40.240	5289.840	5330.080
	Ant1	5310	40.240	5290.000	5330.240
	Ant0	5510	39.920	5489.920	5529.840
	Ant1	5510	39.840	5490.160	5530.000
	Ant0	5550	40.160	5529.840	5570.000
	Ant1	5550	40.080	5529.920	5570.000
	Ant0	5670	40.320	5649.920	5690.240
	Ant1	5670	40.400	5649.840	5690.240
	Ant0	5710	40.480	5689.840	5730.320
	Ant1	5710	39.920	5690.080	5730.000
	Ant0	5710 UNII-2C	35.16	5689.840	5725
	Ant1	5710 UNII-2C	34.92	5690.080	5725
	Ant0	5710 UNII-3	5.32	5725	5730.320
	Ant1	5710_UNII-3	5	5725	5730.000
	Ant0	5755	40.080	5734.920	5775.000
	Ant1	5755	40.080	5735.080	5775.160
	Ant0	5795	40.400	5774.760	5815.160
	AIIU	3183	40.400	3114.100	JU 1J. 100



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	1			1	
	Ant1	5795	39.920	5775.000	5814.920
	Ant0	5210	82.080	5169.040	5251.120
	Ant1	5210	82.240	5168.880	5251.120
	Ant0	5290	81.440	5249.040	5330.480
	Ant1	5290	82.240	5248.880	5331.120
	Ant0	5530	81.120	5489.520	5570.640
11ax80MIMO	Ant1	5530	81.120	5489.520	5570.640
	Ant0	5610	81.120	5569.200	5650.320
	Ant1	5610	82.560	5569.040	5651.600
	Ant0	5690	81.760	5648.880	5730.640
	Ant1	5690	82.560	5648.720	5731.280
	Ant0	5690_UNII-2C	76.12	5648.880	5725
	Ant1	5690_UNII-2C	76.28	5648.720	5725
	Ant0	5690_UNII-3	5.64	5725	5730.640
	Ant1	5690_UNII-3	6.28	5725	5731.280
	Ant0	5775	82.080	5733.720	5815.800
	Ant1	5775	81.600	5734.040	5815.640



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Test Graphs





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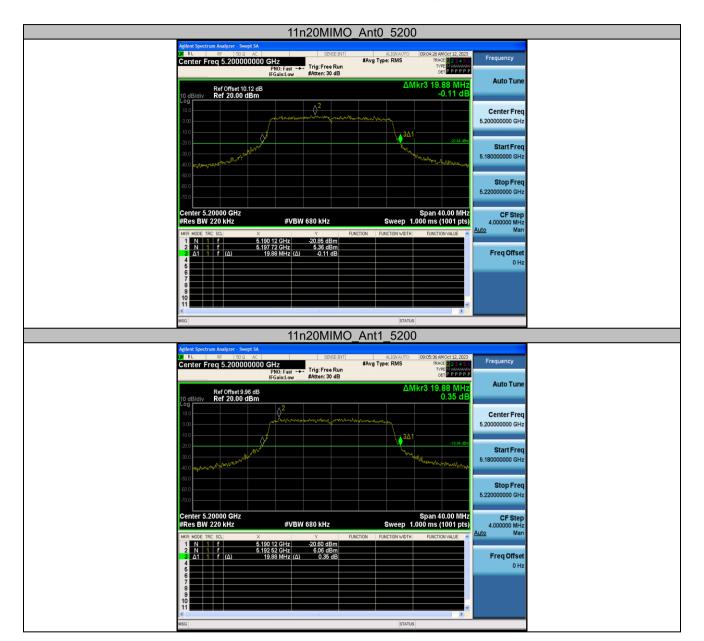
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