

RF TEST REPORT

Product Name: Smart Phone

Model Name: CP12Q

FCC ID: R38YLCP12Q

Issued For : Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Floor 20, Block C, Coolpad Building North High-TechIndustrial Park,

Nanshan District, Shenzhen, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177,

Renmin West Road, Jinsha, Kengzi Street, Pingshan District,

Shenzhen, Guangdong, China

Report Number: LGT24B032RF06

Sample Received Date: Feb. 26, 2024

Date of Test: Feb. 26, 2024 – Mar. 26, 2024

Date of Issue: Mar. 26, 2024

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TEST REPORT CERTIFICATION

Applicant: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Floor 20, Block C, Coolpad Building North High-TechIndustrial Park,

Address: Nanshan District, Shenzhen, China

Manufacturer: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Floor 20, Block C, Coolpad Building North High-TechIndustrial Park,

Address:

Nanshan District, Shenzhen, China

Product Name: Smart Phone

Trademark: coolpad

Model Name: CP12Q

Sample Status: Normal

APPLICABLE STANDARDS							
STANDARD	TEST RESULTS						
FCC Part 22, 24, 27, 90 KDB 971168 D01 v03r01, ANSI C63.26(2015)	PASS						

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Revision History

Rev.	Issue Date	Revisions
00	Mar. 26, 2024	Initial Issue

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1. TEST FACTORY & MEASUREMENT UNCERTAINTY

1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
	A2LA Certificate No.: 6727.01
Accreditation Certificate	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Parameter	Uncertainty
Occupied Channel Bandwidth	±3.2 %
RF Output Power, Conducted	±0.87dB
Power Spectral Density, Conducted	±2.11 dB
Unwanted Emission, Conducted	±0.86dB
All Emissions, Radiated (Below 1GHz)	±3.54dB
All Emissions, Radiated (1GHz-18GHz)	±4.22dB
All Emissions, Radiated (18GHz-25GHz)	±4.81dB
Temperature	±0.5°C
Humidity	±2%

Note: The measurement uncertainty is not included in the test result.

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2. GENERAL INFORMATION

2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

	-				
Product Name:	Smart Phone				
Trademark:	coolpad				
Model Name:	CP12Q				
Series Model:	N/A				
Model Difference:	N/A				
Frequency Bands:	U.S. Bands: LTE FDD Band 2 LTE FDD Band 4 LTE FDD Band 5 LTE FDD Band 7 LTE FDD Band 12 LTE FDD Band 13 LTE FDD Band 17 LTE FDD Band 25 LTE FDD Band 26 LTE FDD Band 66				
SIM Card:	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.				
Antenna:	FPC				
Antenna gain:	LTE B2: -0.6dBi, LTE B4: -1.6dBi, LTE B5: -5.6dBi, LTE B7: -1.9dBi, LTE B12: -6.1dBi, LTE B13: -6.6dBi, LTE B17: -6.1dBi, LTE B25: -0.6dBi, LTE B26: -5.6dBi, LTE B66: -0.3dBi				
Adapter:	Input: 100-240V, 50-60Hz, 0.3A Output: 5V, 2A				
Battery:	Capacity: 4500mAh Rated Voltage: 3.85V				
Extreme Vol. Limits:	3.6V to 4.35V (Nominal 3.85V)				
Extreme Temp. Tolerance:	-20℃ to + 55℃				
Hardware Version:	V1.0				
Software Version:	full_k62v1_64bsp-userdebug 12 SP1A.210812.016mp1V14105 test-keys				

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

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2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Product Specification Subjective To This Standard						
	LTE Band 2:1850~1910MHz					
	LTE Band 4:1710~1755MHz					
	LTE Band 5: 824~849MHz					
	LTE Band 7:2500~2570MHz					
	LTE Band 12: 699-716MHz					
Tx Frequency	LTE Band 13: 777-787MHz					
	LTE Band 17: 704~716MHz					
	LTE Band 25: 1850-1915MHz					
	LTE Band 26: 814-824MHz					
	824-849MHz					
	LTE Band 66: 1710-1780MHz					
	LTE Band 2: 1930-1990MHz					
	LTE Band 4: 2110-2155MHz					
	LTE Band 5: 869-894MHz					
	LTE Band 7: 2620-2690MHz					
	LTE Band 12: 729-746MHz					
Rx Frequency	LTE Band 13: 746-756MHz					
	LTE Band 17: 734-746MHz					
	LTE Band 25: 1930-1995MHz					
	LTE Band 26: 859-869MHz					
	869-894MHz					
	LTE Band 66: 2110-2200MHz					
	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz					
	LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz					
	LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz					
	LTE Band 7: 1.4MHz / 3MHz / 5MHz / 10MHz					
Bandwidth	LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13: 5MHz / 10MHz					
	LTE Band 17: 5MHz / 10MHz					
	LTE Band 17. SMHz / TOMHZ / TOMHZ / 10MHz / 15MHz /20MHz					
	LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz/15MHz					
	LTE Band 26: 1.4MHz / 3MHz / 3MHz / 10MHz / 15MHz /20MHz					
Type of Modulation	QPSK /16QAM					
Type of Modulation	QI ON / IOQAWI					

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2.1.3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 v03r01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power. Radiated measurements are performed by rotating the EUT in three different orthogonal test planes tofind the maximum emission.

Remark:

- 1. The mark 'v'means that this configuration is chosen for testing
- 2. The mark '-'means that this bandwidth is not supported.
- 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated.

ITEMS	Band	Bandwidth (MHz)			Modulation		RB#			Test Channel					
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
	2	٧	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
	4	٧	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
	5	٧	٧	٧	٧			٧	V	٧	٧	٧	٧	٧	٧
	7			٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
E.R.P.&	12	٧	٧	٧	٧			٧	V	٧	٧	٧	٧	٧	٧
E.I.R.P.	13			٧	٧			٧	V	٧	٧	٧	٧	٧	٧
	17			٧	٧			٧	V	٧	٧	٧	٧	٧	٧
	25	٧	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
	26	٧	٧	٧	٧	٧		٧	V	٧	٧	٧	٧	٧	٧
	66	٧	٧	٧	٧	٧	٧	٧	V	٧	٧	٧	٧	٧	٧
	2	٧	٧	٧	٧	٧	٧	٧	V	٧			٧	٧	٧
	4	٧	٧	٧	٧	٧	٧	٧	V	٧			٧	٧	٧
	5	٧	٧	٧	٧			٧	V	٧			٧	٧	٧
	7			٧	٧	٧	V	٧	V	٧			٧	٧	٧
D 100	12	٧	٧	٧	٧			٧	V	٧			٧	٧	٧
Peak&Avera Ratio	13			٧	٧			٧	V	٧			٧	٧	٧
ratio	17			٧	٧			٧	V	٧			٧	٧	٧
	25	٧	٧	٧	٧	٧	٧	٧	V	٧			٧	٧	٧
	26	٧	٧	٧	٧	٧		٧	V	٧			٧	٧	٧
	66	٧	٧	٧	٧	٧	٧	٧	V	٧			٧	٧	٧
	2	٧	٧	٧	٧	٧	٧	٧	V			٧	٧	٧	٧
	4	٧	٧	٧	٧	٧	٧	٧	V			٧	٧	٧	٧
	5	٧	٧	٧	٧			٧	V			٧	٧	٧	٧
	7			٧	٧	٧	٧	٧	V			٧	٧	٧	٧
264D 8 000/	12	٧	٧	٧	٧			٧	V			٧	٧	٧	٧
26dB&99% Bandwidth	13			٧	٧			٧	V			٧	٧	٧	٧
Banawian	17			٧	٧			٧	V			٧	٧	٧	٧
	25	٧	٧	٧	٧	٧	٧	V	V			٧	٧	٧	٧
	26	٧	٧	٧	٧	٧		V	V			٧	٧	٧	٧
	66	٧	٧	٧	٧	٧	٧	V	V			٧	٧	٧	٧
	2	٧	٧	٧	٧	٧	٧	٧	V	٧		٧	٧	٧	٧
Conducted	4	٧	٧	٧	٧	٧	٧	٧	V	٧		٧	٧	٧	٧
Band Edge	5	٧	٧	٧	٧			٧	V	٧		٧	٧	٧	٧
	7			٧	٧	٧	٧	V	V	٧		٧	٧	٧	٧

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	12	٧	٧	٧	٧			V	V	V	V	٧	٧	٧
	13			٧	٧			٧	٧	٧	V	٧	V	٧
	17			٧	٧			V	V	٧	V	٧	V	٧
	25	٧	٧	٧	٧	٧	٧	٧	٧	٧	V	٧	V	٧
	26	٧	٧	٧	٧	٧		V	V	٧	V	٧	V	٧
	66	٧	٧	٧	٧	٧	٧	٧	V	٧	V	٧	V	٧
	2	٧	٧	٧	٧	٧	٧	V	V		V	V	V	٧
	4	V	٧	٧	٧	٧	V	V	V		V	V	٧	٧
	5	V	٧	٧	٧			V	V		V	V	٧	٧
	7			٧	٧	٧	٧	٧	V		V	V	V	V
Conducted	12	V	٧	٧	٧			V	V		V	V	٧	٧
Spurious Emission	13			٧	٧			٧	V		V	V	V	V
Lilliggion	17			٧	٧			٧	٧		V	٧	V	٧
	25	٧	٧	٧	٧	٧	٧	V	V		V	٧	V	٧
	26	٧	٧	٧	٧	٧		V	V		V	٧	V	٧
	66	٧	٧	٧	٧	٧	٧	V	V		V	٧	V	٧
	2						٧	٧	V		V		V	
	4						٧	٧	V		V		V	
	5				٧			V	V		V		V	
	7						V	٧	V		V		٧	
Гио жизопол.	12				٧			V	V		V		٧	
Frequency Stability	13				٧			٧	V		V		٧	
Otability	17				٧			٧	V		V		٧	
	25						٧	V	V		V		٧	
	26				٧	٧		٧	V		V		٧	
	66						٧	V	V		V		٧	
	2	٧	٧	٧	٧	٧	٧	V		٧		٧	٧	٧
	4	٧	٧	٧	٧	٧	V	V		٧		٧	٧	٧
	5	٧	٧	٧	٧			V		٧		٧	V	٧
	7			٧	٧	٧	٧	V		٧		٧	٧	٧
Radiated Spurious Emission	12	٧	٧	٧	٧			V		V		٧	٧	٧
	13			٧	٧			V		٧		٧	٧	٧
	17			٧	٧			V		V		٧	٧	٧
	25	٧	٧	٧	٧	٧	٧	V		V		٧	٧	٧
	26	٧	٧	٧	٧	٧		V		V		٧	٧	٧
	66	٧	٧	٧	٧	٧	٧	V		V		٧	٧	٧

2.1.4 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 22, 24, 27.

2.1.5 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

2.1.6 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.1.7 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester.

The TX frequency was fixed which was for the purpose of the measurements.

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2.1.8 CONFIGURATION OF EUT SYSTEM

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

E-1 EUT

Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	Length	Note
N/A				N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (2) "YES" is means "with core"; "NO" is means "without core".

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2.1.9MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ANSI C63.26 2015 and FCC CFR 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

Radiation Test equipme	Radiation Test equipment									
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until					
EMI Test Receiver	R&S	ESU	100372	2023.04.13	2024.04.12					
Spectrum Analyzer	Keysight	N9010B	MY60242508	2023.04.10	2024.04.09					
Active loop Antenna	ETS	6502	00049544	2023.04.10	2024.04.09					
Bilog Antenna	SCHWARZBECK	VULB 9168	01447	2022.06.05	2025.06.04					
Horn Antenna	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01					
Pre-amplifier (9kHz-1GHz)	EMtrace	RP01A	02017	2023.04.07	2024.04.06					
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2023.04.07	2024.04.06					
RE Cable (9K-1G)	N.A	R01	N.A	2023.04.07	2024.04.06					
RE Cable (1-26G)	N.A	R02	N.A	2023.04.07	2024.04.06					
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23					
Testing Software	EMC-I_V1.4.0.3_SKET									

RF Connected Test equipment									
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until				
Signal Generator	Keysight	N5182B	MY59100717	2023.04.10	2024.04.09				
Signal Analyzer	Keysight	N9010B	MY60242508	2023.04.13	2024.04.12				
Wireless Communications Test Set	R&S	CMW 500	137737	2023.04.13	2024.04.12				
Temperature & Humidity	KTJ	TA218B	N/A	2023.04.24	2024.04.23				
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2023.05.10	2024.05.09				
Attenuator	eastsheep	90db	N/A	2023.04.10	2024.04.09				
Testing Software	MTS 8310_2.0.0.0_MWRF-TEST								

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3. CONDUCTED OUTPUT POWER

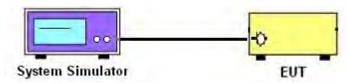
3.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

3.1.1 MEASUREMENT METHOD

A system simulator was used to establish communication with the eut. Its parameters were set to force the eut transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

Configuration follows KDB 971168 D01 v03r01.

3.1.2 TEST SETUP



3.1.3 TEST PROCEDURES

- 1. The transmitter output port was connected to system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest/middle/highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

3.1.4 TEST RESULTS

Note: Test chart See Appendix I

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4. PEAK-TO-AVERAGE RATIO

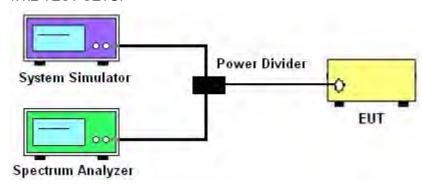
4.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

4.1.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1.3 to measure the total peak power and record as PPk. Use one of the applicable procedures presented 4.1.3 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

PAPR(dB) = PPk(dBm) - PAvg(dBm).

4.1.2 TEST SETUP



4.1.3 TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7 and ANSI C63.26 2015 Section 5.2.6.
- 2. The EUT was connected to spectrum and system simulator via a power divider
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Set the test probe and measure the peak and average power of the spectrum analyzer
- 5. Record the deviation as Peak to Average Ratio.

		LTE									
LTE BW	1.4M	3M	5M	10M	15M	20M					
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz					
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz					
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz					
Detector	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG					
Trace	Max	Max	Max	Max	Max	Max					
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto					

4.1.4 TEST RESULTS

Note: Test chart See Appendix I

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5. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

5.1 DESCRIPTION OF THE ERP/EIRP MEASUREMENT

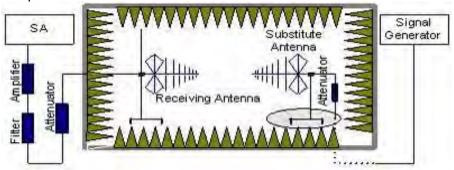
5.1.1 MEASUREMENT METHOD

Effective radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems. Mobile and portable (hand-held) stations operating are limited to average ERP, Equivalent isotropic radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas, Mobile and portable (hand-held) stations operating are limited to average EIRP.

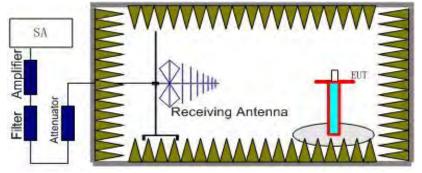
5.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx (dBuV) + CL (dB) + SA (dB) + Gain (dBi) - 107 (dBuV to dBm) The SA is calibrated using following setup.



b) EUT was placed on a 1.5m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.



Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl

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5.1.3 TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 D01v03r01 Section 5.6 and ANSI C63.26 2015 Section 5.2.
- 2. The EUT was placed on a non-conductive rotating platform 1.5 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with Peak detector.
- 3. During the measurement, the system simulator parameters were set to force the EUTtransmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 m in both horizontally and vertically polarized orientations.
- 4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26 2015. The EUT was replaced by dipole antenna (substitution antenna) at same location and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. EIRP=S.G Level+ Gain-Cable loss; ERP=S.G Level+ Gain-Cable loss-2.15.
- 5. RB Set greater than bandwidth, VB Set spectrum analyzer Maximum support.

5.1.4 TEST RESULTS

Note: Test is divided into three directions, X/Y/Z. X pattern for the worst.

Note: Test chart See Appendix I

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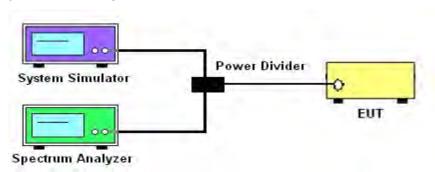
6. OCCUPIED BANDWIDTH

6.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

6.1.1 MEASUREMENT METHOD

- 1. The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.
- 2.The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

6.1.2 TEST SETUP



6.1.3 TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2 and 4.3.
- 2. The EUT was connected to spectrum and system simulator via a power divider.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer.
- 5. Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

		LTE								
LTE BW	1.4M	3M	5M	10M	15M	20M				
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz				
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz				
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz				
Detector	PK	PK	PK	PK	PK	PK				
Trace	Max	Max	Max	Max	Max	Max				
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto				

6.1.4 MEASUREMENT RESULT Note: Test chart See Appendix I

7. CONDUCTED BAND EDGE

7.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

7.1.1 MEASUREMENT METHOD

1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4. §27.53(m)(4)

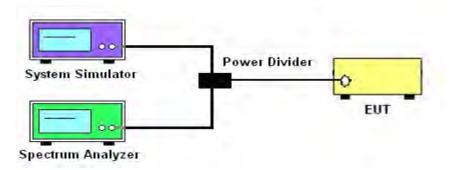
For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHzand 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licenseesoperating on frequencies below 2495 MHz may also submit a documented interference complaintagainst BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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7.1.2 TEST SETUP



7.1.3 TEST PROCEDURES

- 1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The band edges of low and high channels for the highest RF powers were measured. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 4. Set spectrum analyzer with RMS/AVG detector.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frquency band.
- 6. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
- = P(W)- [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

Band 7:

- = P(W) [55 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [55 + 10log(P)] (dB)
- = -25dBm.

		LTE									
LTE BW	1.4M	3M	5M	10M	15M	20M					
Span	12MHz	13MHz	15MHz	20MHz	25MHz	30MHz					
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz					
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz					
Detector	RMS	RMS	RMS	RMS	RMS	RMS					
Trace	Max	Max	Max	Max	Max	Max					
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto					

7.1.4 MEASUREMENT RESULT

Note: Test chart See Appendix I

8. CONDUCTED SPURIOUS EMISSION

8.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

8.1.1 MEASUREMENT METHOD

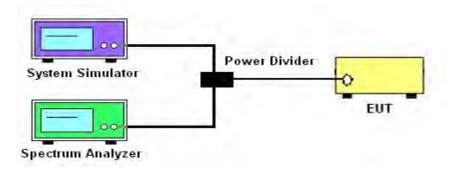
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

8.1.2 TEST SETUP



8.1.3 TEST PROCEDURES

- 1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement
- 4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frquency band.
- 6. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
- = P(W) [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm

For Band 7: P(W)- [43 + 10log(P)] (dB) =-25dBm

		LTE									
LTE BW	1.4M	3M	5M	10M	15M	20M					
Span	Auto	Auto	Auto	Auto	Auto	Auto					
RBW	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz					
VBW	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz					
Detector	PK	PK	PK	PK	PK	PK					
Trace	Max	Max	Max	Max	Max	Max					

8.1.4 TEST RESULTS

Note: Test chart See Appendix I

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9. RADIATED SPURIOUS EMISSION

9.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

9.1.1 MEASUREMENT METHOD

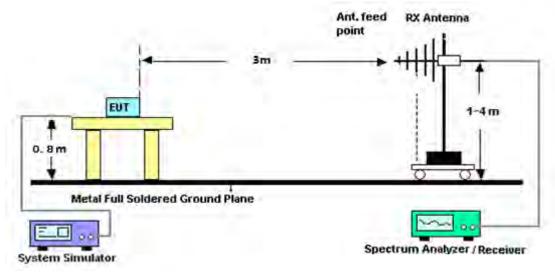
The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. For Band 7 The power of any emission outside of the authorized operating frequency ranges must attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

9.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

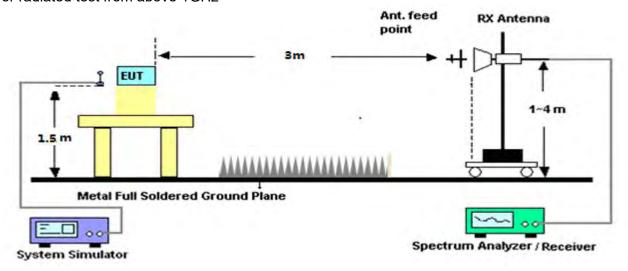
- a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, RSE=Rx (dBuV) +CL (dB) +SA (dB) +Gain (dBi) -107 (dBuV to dBm) The SA is calibrated using following setup.
- b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth. Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: Power=PMea+ARpl For radiated test from 30MHz to 1GHz



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For radiated test from above 1GHz



9.1.3 TEST PROCEDURES

- 1. The testing FCC KDB 971168 D01 Section 7 and ANSI C63.26 2015 Section 5.5.
- 2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm

For Band 7:

The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

- = [30 + 10log(P)] (dBm) [55 + 10log(P)] (dB)
- = -25dBm

PMea=S.G Level+ Ant-Cable loss; Margin=PMea-Limit.

9.1.4 TEST RESULTS

Note: Test chart See Appendix I

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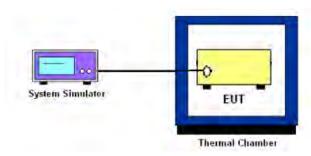
10. FREQUENCY STABILITY

10.1 DESCRIPTION OF FREQUENCY STABILITY MEASUREMENT

10.1.1 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

10.1.2 TEST SETUP



10.1.3 TEST PROCEDURES FOR TEMPERATURE VARIATION

- 1. The EUT was set up in the thermal chamber and connected with the system simulator.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

10.1.4 TEST PROCEDURES FOR VOLTAGE VARIATION

- 1. The testing follows FCC KDB 971168 D01v01r03 Section 9.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simlator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

10.1.5 TEST RESULTS

Note: Test chart See Appendix I

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APPENDIX I - TEST DATA

Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Band2	1.4	18607	1	#0	QPSK	21.62	-0.6	21.02	33.01	PASS
Band2	1.4	18607	1	#Mid	QPSK	21.84	-0.6	21.24	33.01	PASS
Band2	1.4	18607	1	#Max	QPSK	21.64	-0.6	21.04	33.01	PASS
Band2	1.4	18607	3	#0	QPSK	21.73	-0.6	21.13	33.01	PASS
Band2	1.4	18607	3	#Mid	QPSK	21.73	-0.6	21.13	33.01	PASS
Band2	1.4	18607	3	#Max	QPSK	21.76	-0.6	21.16	33.01	PASS
Band2	1.4	18607	6	#0	QPSK	20.67	-0.6	20.07	33.01	PASS
Band2	1.4	18607	1	#0 #N4: d	16QAM	20.58	-0.6	19.98	33.01	PASS
Band2 Band2	1.4 1.4	18607 18607	1	#Mid #Max	16QAM 16QAM	20.74 20.55	-0.6 -0.6	20.14 19.95	33.01 33.01	PASS PASS
Band2	1.4	18607	3	#IVIAX #0	16QAM	20.89	-0.6	20.29	33.01	PASS
Band2	1.4	18607	3	#Mid	16QAM	20.88	-0.6	20.28	33.01	PASS
Band2	1.4	18607	3	#Max	16QAM	20.93	-0.6	20.33	33.01	PASS
Band2	1.4	18607	6	#0	16QAM	19.88	-0.6	19.28	33.01	PASS
Band2	1.4	18900	1	#0	QPSK	21.35	-0.6	20.75	33.01	PASS
Band2	1.4	18900	1	#Mid	QPSK	21.48	-0.6	20.88	33.01	PASS
Band2	1.4	18900	1	#Max	QPSK	21.3	-0.6	20.7	33.01	PASS
Band2	1.4	18900	3	#0	QPSK	21.29	-0.6	20.69	33.01	PASS
Band2	1.4	18900	3	#Mid	QPSK	21.32	-0.6	20.72	33.01	PASS
Band2	1.4	18900	3	#Max	QPSK	21.34	-0.6	20.74	33.01	PASS
Band2	1.4	18900	6	#0	QPSK	20.32	-0.6	19.72	33.01	PASS
Band2	1.4	18900	1	#0	16QAM	20.47	-0.6	19.87	33.01	PASS
Band2	1.4	18900	1	#Mid	16QAM	20.62	-0.6	20.02	33.01	PASS
Band2	1.4	18900	1	#Max	16QAM	20.46	-0.6	19.86	33.01	PASS
Band2	1.4	18900	3	#0	16QAM	20.56	-0.6	19.96	33.01	PASS
Band2	1.4	18900	3	#Mid	16QAM	20.55	-0.6	19.95	33.01	PASS
Band2	1.4	18900	3	#Max	16QAM	20.54	-0.6	19.94	33.01	PASS
Band2	1.4	18900	6	#0	16QAM	19.52	-0.6	18.92	33.01	PASS
Band2	1.4	19193	1	#0 #NA:-I	QPSK	21.27	-0.6	20.67	33.01	PASS
Band2	1.4 1.4	19193 19193	1	#Mid	QPSK QPSK	21.39 21.2	-0.6 -0.6	20.79 20.6	33.01 33.01	PASS PASS
Band2 Band2	1.4	19193	3	#Max #0	QPSK	21.2	-0.6	20.6	33.01	PASS
Band2	1.4	19193	3	#Mid	QPSK	21.36	-0.6	20.76	33.01	PASS
Band2	1.4	19193	3	#Max	QPSK	21.35	-0.6	20.75	33.01	PASS
Band2	1.4	19193	6	#0	QPSK	20.26	-0.6	19.66	33.01	PASS
Band2	1.4	19193	1	#0	16QAM	20.52	-0.6	19.92	33.01	PASS
Band2	1.4	19193	1	#Mid	16QAM	20.6	-0.6	20	33.01	PASS
Band2	1.4	19193	1	#Max	16QAM	20.49	-0.6	19.89	33.01	PASS
Band2	1.4	19193	3	#0	16QAM	20.57	-0.6	19.97	33.01	PASS
Band2	1.4	19193	3	#Mid	16QAM	20.63	-0.6	20.03	33.01	PASS
Band2	1.4	19193	3	#Max	16QAM	20.57	-0.6	19.97	33.01	PASS
Band2	1.4	19193	6	#0	16QAM	19.49	-0.6	18.89	33.01	PASS
Band2	3	18615	1	#0	QPSK	21.75	-0.6	21.15	33.01	PASS
Band2	3	18615	1	#Mid	QPSK	21.99	-0.6	21.39	33.01	PASS
Band2	3	18615	1	#Max	QPSK	21.72	-0.6	21.12	33.01	PASS
Band2	3	18615	8	#0	QPSK	20.74	-0.6	20.14	33.01	PASS
Band2	3	18615	8	#Mid	QPSK	20.74	-0.6	20.14	33.01	PASS
Band2	3	18615	8	#Max	QPSK	20.75	-0.6	20.15	33.01	PASS
Band2	3	18615	15	#0	QPSK	20.74	-0.6	20.14	33.01	PASS
Band2	3	18615	1	#0 #Mid	16QAM	21.29	-0.6	20.69	33.01	PASS
Band2	3	18615	1	#Mid	16QAM	21.68	-0.6	21.08	33.01	PASS
Band2 Band2	3	18615 18615	8	#Max #0	16QAM 16QAM	21.22 19.84	-0.6 -0.6	20.62 19.24	33.01 33.01	PASS PASS
Band2	3 3	18615	8	#Mid	16QAM	19.87	-0.6	19.24	33.01	PASS
Band2	3	18615	8	#Max	16QAM	19.86	-0.6	19.27	33.01	PASS
Band2	3	18615	15	#IVIAX #0	16QAM	19.83	-0.6	19.23	33.01	PASS
Band2	3	18900	1	#0	QPSK	21.39	-0.6	20.79	33.01	PASS
Band2	3	18900	1	#Mid	QPSK	21.69	-0.6	21.09	33.01	PASS
Band2	3	18900	1	#Max	QPSK	21.41	-0.6	20.81	33.01	PASS
Band2	3	18900	8	#0	QPSK	20.39	-0.6	19.79	33.01	PASS
Danu/										

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Band2											
Band2	Band2	3	18900	8	#Max	QPSK	20.38	-0.6	19.78	33.01	PASS
Band2 3	Band2		18900				20.37	-0.6			PASS
Band2 3											
Band2											
Band2											
Band2											
Band2 3											
Band2 3											
Band2	Band2										
Bandz	Band2	3	18900	15	#0	16QAM	19.35	-0.6	18.75	33.01	PASS
Band2	Band2	3	19185	1	#0	QPSK	21.41	-0.6	20.81	33.01	PASS
Band2	Band2	3	19185	1	#Mid	QPSK	21.7	-0.6	21.1	33.01	PASS
Band2											
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Band2	10	18650	25	#0	QPSK	20.74	-0.6	20.14	33.01	PASS
Band2	10	18650	25	#Mid	QPSK	20.74	-0.6	20.14	33.01	PASS
Band2	10	18650	25	#Max	QPSK	20.81	-0.6	20.21	33.01	PASS
	10		50	#IVIAX #0	QPSK	20.78				PASS
Band2		18650					-0.6	20.18	33.01	
Band2	10	18650	1	#0	16QAM	20.57	-0.6	19.97	33.01	PASS
Band2	10	18650	1	#Mid	16QAM	20.73	-0.6	20.13	33.01	PASS
Band2	10	18650	1	#Max	16QAM	20.59	-0.6	19.99	33.01	PASS
Band2	10	18650	25	#0	16QAM	19.79	-0.6	19.19	33.01	PASS
Band2	10	18650	25	#Mid	16QAM	19.76	-0.6	19.16	33.01	PASS
Band2	10	18650	25	#Max	16QAM	19.83	-0.6	19.23	33.01	PASS
Band2	10	18650	50	#0	16QAM	19.81	-0.6	19.21	33.01	PASS
Band2	10	18900	1	#0	QPSK	21.33	-0.6	20.73	33.01	PASS
Band2	10	18900	1	#Mid	QPSK	21.42	-0.6	20.82	33.01	PASS
Band2	10	18900	1	#Max	QPSK	21.21	-0.6	20.61	33.01	PASS
Band2	10	18900	25	#0	QPSK	20.46	-0.6	19.86	33.01	PASS
Band2	10	18900	25	#Mid	QPSK	20.39	-0.6	19.79	33.01	PASS
Band2	10	18900	25	#Max	QPSK	20.34	-0.6	19.74	33.01	PASS
Band2	10	18900	50	#0	QPSK	20.39	-0.6	19.79	33.01	PASS
Band2	10	18900	1	#0	16QAM	20.82	-0.6	20.22	33.01	PASS
Band2	10	18900	1	#Mid	16QAM	20.94	-0.6	20.34	33.01	PASS
Band2	10	18900	1	#Max	16QAM	20.69	-0.6	20.09	33.01	PASS
Band2	10	18900	25	#1VIAX #0	16QAM	19.53	-0.6	18.93	33.01	PASS
										PASS
Band2	10	18900	25	#Mid	16QAM	19.47	-0.6	18.87	33.01	
Band2	10	18900	25	#Max	16QAM	19.42	-0.6	18.82	33.01	PASS
Band2	10	18900	50	#0	16QAM	19.46	-0.6	18.86	33.01	PASS
Band2	10	19150	1	#0	QPSK	21.29	-0.6	20.69	33.01	PASS
Band2	10	19150	1	#Mid	QPSK	21.48	-0.6	20.88	33.01	PASS
Band2	10	19150	1	#Max	QPSK	21.32	-0.6	20.72	33.01	PASS
Band2	10	19150	25	#0	QPSK	20.45	-0.6	19.85	33.01	PASS
Band2	10	19150	25	#Mid	QPSK	20.37	-0.6	19.77	33.01	PASS
Band2	10	19150	25	#Max	QPSK	20.38	-0.6	19.78	33.01	PASS
Band2	10	19150	50	#IVIAX #0	QPSK	20.30	-0.6	19.76	33.01	PASS
Band2	10	19150	1	#0	16QAM	20.46	-0.6	19.86	33.01	PASS
Band2	10	19150	1	#Mid	16QAM	20.64	-0.6	20.04	33.01	PASS
Band2	10	19150	1	#Max	16QAM	20.49	-0.6	19.89	33.01	PASS
Band2	10	19150	25	#0	16QAM	19.49	-0.6	18.89	33.01	PASS
Band2	10	19150	25	#Mid	16QAM	19.4	-0.6	18.8	33.01	PASS
Band2	10	19150	25	#Max	16QAM	19.39	-0.6	18.79	33.01	PASS
Band2	10	19150	50	#0	16QAM	19.48	-0.6	18.88	33.01	PASS
Band2	15	18675	1	#0	QPSK	21.46	-0.6	20.86	33.01	PASS
Band2	15	18675	1	#Mid	QPSK	21.79	-0.6	21.19	33.01	PASS
Band2	15	18675	1	#Max	QPSK	21.53	-0.6	20.93	33.01	PASS
Band2	15	18675	36	#0	QPSK	20.68	-0.6	20.08	33.01	PASS
Band2	15	18675	36	#Mid	QPSK	20.73	-0.6	20.13	33.01	PASS
Band2	15	18675	36	#Max	QPSK	20.76	-0.6	20.16	33.01	PASS
Band2	15	18675	75	#0	QPSK	20.72	-0.6	20.12	33.01	PASS
Band2	15	18675	1	#0	16QAM	20.7	-0.6	20.1	33.01	PASS
Band2	15	18675	1	#Mid	16QAM	21.15	-0.6	20.55	33.01	PASS
Band2	15	18675	1	#Max	16QAM	20.74	-0.6	20.14	33.01	PASS
Band2	15	18675	36	#0	16QAM	19.71	-0.6	19.11	33.01	PASS
Band2	15	18675	36	#Mid	16QAM	19.78	-0.6	19.18	33.01	PASS
Band2	15	18675	36	#Max	16QAM	19.83	-0.6	19.23	33.01	PASS
Band2	15	18675	75	#IVIAX #0	16QAM	19.69	-0.6	19.23	33.01	PASS
				#0						
Band2	15	18900	1		QPSK	21.29	-0.6	20.69	33.01	PASS
Band2	15	18900	1	#Mid	QPSK	21.54	-0.6	20.94	33.01	PASS
Band2	15	18900	1	#Max	QPSK	21.01	-0.6	20.41	33.01	PASS
Band2	15	18900	36	#0	QPSK	20.41	-0.6	19.81	33.01	PASS
Band2	15	18900	36	#Mid	QPSK	20.34	-0.6	19.74	33.01	PASS
Band2	15	18900	36	#Max	QPSK	20.21	-0.6	19.61	33.01	PASS
Band2	15	18900	75	#0	QPSK	20.29	-0.6	19.69	33.01	PASS
Band2	15	18900	1	#0	16QAM	20.4	-0.6	19.8	33.01	PASS
Band2	15	18900	1	#Mid	16QAM	20.74	-0.6	20.14	33.01	PASS
Band2	15	18900	1	#Max	16QAM	20.74	-0.6	19.51	33.01	PASS
Band2	15	18900	36	#0	16QAM	19.39	-0.6	18.79	33.01	PASS
Band2	15	18900	36	#Mid	16QAM	19.32	-0.6	18.72	33.01	PASS
Band2	15	18900	36	#Max	16QAM	19.21	-0.6	18.61	33.01	PASS
Band2	15	18900	75	#0	16QAM	19.34	-0.6	18.74	33.01	PASS
Band2	15	19125	1	#0	QPSK	20.93	-0.6	20.33	33.01	PASS
		•			*				•	

Band2	15	19125	1	#Mid	QPSK	21.62	-0.6	21.02	33.01	PASS
Band2	15	19125	1	#Max	QPSK	21.02	-0.6	20.52	33.01	PASS
Band2	15	19125	36	#IVIAX #0	QPSK	20.28	-0.6	19.68	33.01	PASS
Band2	15	19125	36	#Mid	QPSK	20.20	-0.6	19.74	33.01	PASS
Band2	15	19125	36	#Max	QPSK	20.34	-0.6	19.74	33.01	PASS
Band2	15	19125	75	#IVIAX #0	QPSK	20.32	-0.6	19.72	33.01	PASS
Band2	15	19125	1	#0	16QAM	20.28	-0.6	19.08	33.01	PASS
Band2	15	19125	1	#Mid	16QAM	20.36	-0.6	20.4	33.01	PASS
Band2	15	19125	1	#Max	16QAM	20.59	-0.6	19.99	33.01	PASS
Band2	15	19125	36	#IVIAX #0	16QAM	19.38	-0.6	18.78	33.01	PASS
Band2	15	19125	36	#Mid	16QAM	19.35	-0.6	18.75	33.01	PASS
Band2	15	19125	36	#Max	16QAM	19.32	-0.6	18.72	33.01	PASS
Band2	15	19125	75	#IVIAX #0	16QAM	19.32	-0.6	18.73	33.01	PASS
Band2	20	18700	1	#0	QPSK	21.85	-0.6	21.25	33.01	PASS
Band2	20	18700	1	#Mid	QPSK	22.32	-0.6	21.72	33.01	PASS
Band2	20	18700	1	#Max	QPSK	21.83	-0.6	21.72	33.01	PASS
			50	#IVIAX #0	QPSK			20.54	33.01	PASS
Band2	20 20	18700	50	#Mid		21.14	-0.6			PASS
Band2	20	18700 18700	50	#Max	QPSK QPSK	21.23 21.25	-0.6 -0.6	20.63 20.65	33.01 33.01	PASS
Band2 Band2	20	18700	100	#IVIAX #0	QPSK	21.25	-0.6	20.65	33.01	PASS
	20	18700	100	#0	16QAM				33.01	PASS
Band2	20	18700	-	#Mid	16QAM	21.15 21.62	-0.6	20.55 21.02	33.01	PASS
Band2 Band2	20	18700	1	#Max	16QAM	21.02	-0.6 -0.6	20.49	33.01	PASS
	20	18700	50	#IVIAX #0	16QAM	20.25		19.65	33.01	PASS
Band2	20	18700	50	#U #Mid	16QAM	20.25	-0.6	19.65	33.01	PASS
Band2	20	18700	50				-0.6	19.71		
Band2	20	18700	100	#Max #0	16QAM 16QAM	20.35 20.27	-0.6 -0.6	19.75	33.01 33.01	PASS PASS
Band2	20	18900	100	#0	QPSK		-0.6		33.01	PASS
Band2	20	18900	1	#Mid	QPSK	21.64 21.91	-0.6	21.04 21.31	33.01	PASS
Band2 Band2	20	18900	1	#Max	QPSK	21.19	-0.6	20.59	33.01	PASS
Band2	20	18900	50	#IVIAX #0	QPSK	20.97	-0.6	20.39	33.01	PASS
Band2	20	18900	50	#Mid	QPSK	20.83	-0.6	20.37	33.01	PASS
Band2	20	18900	50	#Max	QPSK	20.03	-0.6	20.23	33.01	PASS
Band2	20	18900	100	#IVIAX #0	QPSK	20.74	-0.6	20.14	33.01	PASS
Band2	20	18900	1	#0	16QAM	21.01	-0.6	20.20	33.01	PASS
Band2	20	18900	1	#Mid	16QAM	21.01	-0.6	20.41	33.01	PASS
Band2	20	18900	1	#Max	16QAM	20.6	-0.6	20.00	33.01	PASS
Band2	20	18900	50	#IVIAX #0	16QAM	20.08	-0.6	19.48	33.01	PASS
	20		50	#Mid	16QAM					PASS
Band2 Band2	20	18900 18900	50	#Max	16QAM	19.93 19.85	-0.6 -0.6	19.33 19.25	33.01 33.01	PASS
Band2 Band2	20	18900	100	#IVIAX #0	16QAM	19.85	-0.6	19.25	33.01	PASS
Band2 Band2	20			#0				20.52		PASS
		19100	1	#Mid	QPSK	21.12	-0.6		33.01	PASS
Band2	20	19100 19100	1	#Max	QPSK QPSK	21.99	-0.6	21.39 21.01	33.01	PASS
Band2	20		•	#IVIAX #0		21.61	-0.6		33.01	
Band2	20	19100	50		QPSK	20.65	-0.6	20.05	33.01	PASS
Band2	20	19100	50	#Mid	QPSK	20.8	-0.6	20.2	33.01	PASS
Band2	20	19100 19100	50	#Max	QPSK	20.77	-0.6	20.17	33.01	PASS PASS
Band2	20		100	#0 #0	QPSK 160AM	20.77	-0.6	19.75	33.01	
Band2	20	19100	1		16QAM	20.35	-0.6		33.01	PASS
Band2	20	19100	1	#Mid	16QAM	21.19	-0.6	20.59	33.01	PASS
Band2	20	19100	1	#Max	16QAM	20.85	-0.6	20.25	33.01	PASS
Band2	20	19100	50	#0 #N/id	16QAM	19.72	-0.6	19.12	33.01	PASS
Band2	20	19100	50	#Mid	16QAM	19.84	-0.6	19.24	33.01	PASS
Band2	20	19100	50	#Max	16QAM	19.8	-0.6	19.2	33.01	PASS
Band2	20	19100	100	#0	16QAM	19.76	-0.6	19.16	33.01	PASS

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	Dan destable	1,11	D.D.	D.D.		Deverse	Orlin	FIRE	EIRP	
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dB)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	1	#0	QPSK	22.71	-1.6	21.11	30	PASS
Band4	1.4	19957	1	#Mid	QPSK	22.88	-1.6	21.28	30	PASS
Band4	1.4	19957	1	#Max	QPSK	22.66	-1.6	21.06	30	PASS
Band4	1.4	19957	3	#0	QPSK	22.83	-1.6	21.23	30	PASS
Band4	1.4	19957	3	#Mid	QPSK	22.77	-1.6	21.17	30	PASS
Band4	1.4	19957	3	#Max	QPSK	22.74	-1.6	21.14	30	PASS
Band4	1.4 1.4	19957 19957	6	#0 #0	QPSK 16QAM	21.69	-1.6 -1.6	20.09 20.34	30 30	PASS PASS
Band4 Band4	1.4	19957	1	#Mid	16QAM	21.94 22.11	-1.6	20.34	30	PASS
Band4	1.4	19957	1	#Max	16QAM	21.91	-1.6	20.31	30	PASS
Band4	1.4	19957	3	#IVIAX #0	16QAM	22.09	-1.6	20.49	30	PASS
Band4	1.4	19957	3	#Mid	16QAM	22.09	-1.6	20.49	30	PASS
Band4	1.4	19957	3	#Max	16QAM	22.04	-1.6	20.44	30	PASS
Band4	1.4	19957	6	#0	16QAM	20.94	-1.6	19.34	30	PASS
Band4	1.4	20175	1	#0	QPSK	22.31	-1.6	20.71	30	PASS
Band4	1.4	20175	1	#Mid	QPSK	22.41	-1.6	20.81	30	PASS
Band4	1.4	20175	1	#Max	QPSK	22.37	-1.6	20.77	30	PASS
Band4	1.4	20175	3	#0	QPSK	22.38	-1.6	20.78	30	PASS
Band4	1.4	20175	3	#Mid	QPSK	22.45	-1.6	20.85	30	PASS
Band4	1.4	20175	3	#Max	QPSK	22.40	-1.6	20.8	30	PASS
Band4	1.4	20175	6	#0	QPSK	21.33	-1.6	19.73	30	PASS
Band4	1.4	20175	1	#0	16QAM	21.23	-1.6	19.63	30	PASS
Band4	1.4	20175	1	#Mid	16QAM	21.33	-1.6	19.73	30	PASS
Band4	1.4	20175	1	#Max	16QAM	21.27	-1.6	19.67	30	PASS
Band4	1.4	20175	3	#0	16QAM	21.55	-1.6	19.95	30	PASS
Band4	1.4	20175	3	#Mid	16QAM	21.61	-1.6	20.01	30	PASS
Band4	1.4	20175	3	#Max	16QAM	21.56	-1.6	19.96	30	PASS
Band4	1.4	20175	6	#0	16QAM	20.54	-1.6	18.94	30	PASS
Band4	1.4	20393	1	#0	QPSK	22.19	-1.6	20.59	30	PASS
Band4	1.4	20393	1	#Mid	QPSK	22.33	-1.6	20.73	30	PASS
Band4 Band4	1.4 1.4	20393 20393	3	#Max #0	QPSK QPSK	22.20 22.13	-1.6 -1.6	20.6 20.53	30 30	PASS PASS
Band4	1.4	20393	3	#Mid	QPSK	22.13	-1.6	20.53	30	PASS
Band4	1.4	20393	3	#Max	QPSK	22.17	-1.6	20.57	30	PASS
Band4	1.4	20393	6	#10	QPSK	21.12	-1.6	19.52	30	PASS
Band4	1.4	20393	1	#0	16QAM	21.33	-1.6	19.73	30	PASS
Band4	1.4	20393	1	#Mid	16QAM	21.45	-1.6	19.85	30	PASS
Band4	1.4	20393	1	#Max	16QAM	21.31	-1.6	19.71	30	PASS
Band4	1.4	20393	3	#0	16QAM	21.39	-1.6	19.79	30	PASS
Band4	1.4	20393	3	#Mid	16QAM	21.43	-1.6	19.83	30	PASS
Band4	1.4	20393	3	#Max	16QAM	21.38	-1.6	19.78	30	PASS
Band4	1.4	20393	6	#0	16QAM	20.31	-1.6	18.71	30	PASS
Band4	3	19965	1	#0	QPSK	22.84	-1.6	21.24	30	PASS
Band4	3	19965	1	#Mid	QPSK	23.04	-1.6	21.44	30	PASS
Band4	3	19965	1	#Max	QPSK	22.67	-1.6	21.07	30	PASS
Band4	3	19965	8	#0	QPSK	21.77	-1.6	20.17	30	PASS
Band4	3	19965	8	#Mid	QPSK	21.77	-1.6	20.17	30	PASS
Band4	3	19965	8	#Max	QPSK	21.69	-1.6	20.09	30	PASS
Band4	3	19965	15	#0	QPSK	21.76	-1.6	20.16	30	PASS
Band4	3	19965	1	#0 #N4id	16QAM	22.36	-1.6	20.76	30	PASS
Band4	3	19965	1	#Mid	16QAM	22.58	-1.6	20.98	30	PASS
Band4	3	19965	1	#Max #0	16QAM	22.13	-1.6	20.53	30	PASS PASS
Band4 Band4	3 3	19965 19965	8	#Mid	16QAM 16QAM	20.91 20.89	-1.6 -1.6	19.31 19.29	30 30	PASS
Band4	3	19965	8	#Max	16QAM	20.89	-1.6	19.29	30	PASS
Band4	3	19965	15	#IVIAX #0	16QAM	20.84	-1.6	19.24	30	PASS
Band4	3	20175	1	#0	QPSK	22.44	-1.6	20.84	30	PASS
Band4	3	20175	1	#Mid	QPSK	22.69	-1.6	21.09	30	PASS
Band4	3	20175	1	#Max	QPSK	22.51	-1.6	20.91	30	PASS
Band4	3	20175	8	#0	QPSK	21.41	-1.6	19.81	30	PASS
Band4	3	20175	8	#Mid	QPSK	21.45	-1.6	19.85	30	PASS
Band4	3	20175	8	#Max	QPSK	21.49	-1.6	19.89	30	PASS
Band4	3	20175	15	#0	QPSK	21.44	-1.6	19.84	30	PASS
Band4	3	20175	1	#0	16QAM	21.64	-1.6	20.04	30	PASS
	3	20175	1	#Mid	16QAM	22.03	-1.6	20.43	30	PASS

Band4											
Band4	Band4	3	20175	1	#Max	16QAM	21.75	-1.6	20.15	30	PASS
Band4 3	Band4		20175	8		16QAM	20.47	-1.6	18.87		PASS
Band4 3											
Band4 3											
Bandd											
Band4 3											
Band4 3											
Band4	Band4	3	20385	1	#Mid		22.60	-1.6		30	
Bandel 3 20385 8 #Max OPSK 21.23 1.6 19.59 30 PASS Bandd 3 20386 15 #0 OPSK 21.21 -1.6 19.51 30 PASS Bandd 3 20385 1 #Mid 160AM 21.18 -1.6 19.56 30 PASS Bandd 3 20385 1 #Mid 160AM 21.11 -1.6 19.67 30 PASS Bandd 3 20385 8 #Mol 160AM 20.27 -1.6 18.67 30 PASS Bandd 3 20385 8 #Mid 160AM 20.27 -1.6 18.67 30 PASS Bandd 3 20385 8 #Mid 160AM 20.27 -1.6 18.67 30 PASS Bandd 5 19975 1 #Mid OPSK 22.60 -1.6 18.0 30 PASS<	Band4	3	20385	1	#Max	QPSK	22.26	-1.6	20.66	30	PASS
Bandel 3 20385 8 #Max OPSK 21.23 1.6 19.59 30 PASS Bandd 3 20386 15 #0 OPSK 21.21 -1.6 19.51 30 PASS Bandd 3 20385 1 #Mid 160AM 21.18 -1.6 19.56 30 PASS Bandd 3 20385 1 #Mid 160AM 21.11 -1.6 19.67 30 PASS Bandd 3 20385 8 #Mol 160AM 20.27 -1.6 18.67 30 PASS Bandd 3 20385 8 #Mid 160AM 20.27 -1.6 18.67 30 PASS Bandd 3 20385 8 #Mid 160AM 20.27 -1.6 18.67 30 PASS Bandd 5 19975 1 #Mid OPSK 22.60 -1.6 18.0 30 PASS<	Band4	3	20385	8	#0	QPSK	21.24	-1.6	19.64	30	PASS
Bandd											
Bandd 3											
Bandd											
Band4 3 20385 1 #Mid 160AM 21.47 -1.6 19.87 30 PASS Band4 3 20385 1 #Max 160AM 20.27 -1.6 18.67 30 PASS Band4 3 20385 8 #0 160AM 20.27 -1.6 18.67 30 PASS Band4 3 20385 8 #Mid 160AM 20.27 -1.6 18.67 30 PASS Band4 3 20385 8 #Mid 160AM 20.27 -1.6 18.67 30 PASS Band4 3 20385 18 #Mid 160AM 20.28 -1.6 18.67 30 PASS Band4 3 20385 15 #0 160AM 20.28 -1.6 18.67 30 PASS Band4 5 19975 1 #0 OPSK 22.60 -1.6 18.77 30 PASS Band4 5 19975 1 #0 OPSK 22.60 -1.6 18.77 30 PASS Band4 5 19975 1 #Mid OPSK 22.60 -1.6 21 20 30 PASS Band4 5 19975 1 #Mid OPSK 22.60 -1.6 21 20 30 PASS Band4 5 19975 1 #Mid OPSK 22.60 -1.6 21 20 30 PASS Band4 5 19975 12 #Mid OPSK 22.60 -1.6 20.07 30 PASS Band4 5 19975 12 #Mid OPSK 21.68 -1.6 20.07 30 PASS Band4 5 19975 12 #Mid OPSK 21.68 -1.6 20.07 30 PASS Band4 5 19975 12 #Mid OPSK 21.68 -1.6 20.07 30 PASS Band4 5 19975 12 #Mid OPSK 21.68 -1.6 20.07 30 PASS Band4 5 19975 12 #Mid OPSK 21.68 -1.6 20.07 30 PASS Band4 5 19975 12 #Mid OPSK 21.68 -1.6 20.07 30 PASS Band4 5 19975 12 #Mid OPSK 21.68 -1.6 20.07 30 PASS Band4 5 19975 12 #Mid OPSK 21.69 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 22.03 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 22.03 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 22.03 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 22.07 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 21.82 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 21.82 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 21.82 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 21.82 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 21.82 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 21.82 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 21.82 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 21.82 -1.6 20.07 30 PASS Band4 5 19975 1 #Mid 10AM 20.07 -1.6 19.10 30 PASS Band4 5 19975 1 #Mid 10AM 20.07 -1.6 19.10 30 PASS Band4 5 20175 1 #Mid 10AM 20.07 -1.6 19.10 30 PASS Band4 5 20175 1 #Mid 10AM 20.07 -1.6 19.10 30 PASS Band4 5 20175 1 #Mid 10AM 20.07 -1.6 19.10 30 PASS Band4 5 20175 1 #Mid 10AM 20.07 -1.6 19.10 30 PASS Band4 5 20175 1 #Mid 10AM 20.07 -1.6 19.00 30 P											
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Band4 10 20000 50 #0 QPSK 21.60 -1.6 20 30 PASS											
	Band4	10	20000	50	#0	QPSK	21.60	-1.6	20	30	PASS

Band4	10	20000	1	#0	16QAM	21.90	-1.6	20.3	30	PASS
Band4	10	20000	1	#Mid	16QAM	21.90	-1.6	20.3	30	PASS
Band4	10	20000	1	#Max	16QAM	21.58	-1.6	19.98	30	PASS
Band4	10	20000	25	#0	16QAM	20.75	-1.6	19.15	30	PASS
Band4	10	20000	25	#Mid	16QAM	20.66	-1.6	19.06	30	PASS
Band4	10	20000	25	#Max	16QAM	20.57	-1.6	18.97	30	PASS
Band4	10	20000	50	#0	16QAM	20.73	-1.6	19.13	30	PASS
Band4	10	20175	1	#0	QPSK	22.23	-1.6	20.63	30	PASS
Band4	10	20175	1	#Mid	QPSK	22.48	-1.6	20.88	30	PASS
	10	20175	1	#Max	QPSK	22.40	-1.6	20.82	30	PASS
Band4	10	20175	25	#IVIAX #0	QPSK	21.36	-1.6	19.76	30	PASS
Band4				#Mid						
Band4	10	20175	25		QPSK	21.41	-1.6	19.81	30	PASS
Band4	10	20175	25	#Max	QPSK	21.47	-1.6	19.87	30	PASS
Band4	10	20175	50	#0	QPSK	21.42	-1.6	19.82	30	PASS
Band4	10	20175	1	#0	16QAM	21.15	-1.6	19.55	30	PASS
Band4	10	20175	1	#Mid	16QAM	21.44	-1.6	19.84	30	PASS
Band4	10	20175	1	#Max	16QAM	21.23	-1.6	19.63	30	PASS
Band4	10	20175	25	#0	16QAM	20.44	-1.6	18.84	30	PASS
Band4	10	20175	25	#Mid	16QAM	20.50	-1.6	18.9	30	PASS
Band4	10	20175	25	#Max	16QAM	20.54	-1.6	18.94	30	PASS
Band4	10	20175	50	#0	16QAM	20.50	-1.6	18.9	30	PASS
Band4	10	20350	1	#0	QPSK	22.34	-1.6	20.74	30	PASS
Band4	10	20350	1	#Mid	QPSK	22.38	-1.6	20.78	30	PASS
Band4	10	20350	1	#Max	QPSK	22.08	-1.6	20.48	30	PASS
Band4	10	20350	25	#0	QPSK	21.40	-1.6	19.8	30	PASS
Band4	10	20350	25	#Mid	QPSK	21.34	-1.6	19.74	30	PASS
Band4	10	20350	25	#Max	QPSK	21.29	-1.6	19.69	30	PASS
Band4	10	20350	50	#0	QPSK	21.36	-1.6	19.76	30	PASS
Band4	10	20350	1	#0	16QAM	21.84	-1.6	20.24	30	PASS
Band4	10	20350	1	#Mid	16QAM	21.87	-1.6	20.27	30	PASS
Band4	10	20350	1	#Max	16QAM	21.54	-1.6	19.94	30	PASS
Band4	10	20350	25	#IVIAX #0	16QAM	20.49	-1.6	18.89	30	PASS
	10		25	#Mid	16QAM	20.49	-1.6		30	PASS
Band4		20350						18.81		
Band4	10	20350	25	#Max	16QAM	20.39	-1.6	18.79	30	PASS
Band4	10	20350	50	#0	16QAM	20.37	-1.6	18.77	30	PASS
Band4	15	20025	1	#0	QPSK	22.49	-1.6	20.89	30	PASS
Band4	15	20025	11	#Mid	QPSK	22.77	-1.6	21.17	30	PASS
Band4	15	20025	1	#Max	QPSK	22.09	-1.6	20.49	30	PASS
Band4	15	20025	36	#0	QPSK	21.52	-1.6	19.92	30	PASS
Band4	15	20025	36	#Mid	QPSK	21.45	-1.6	19.85	30	PASS
Band4	15	20025	36	#Max	QPSK	21.34	-1.6	19.74	30	PASS
Band4	15	20025	75	#0	QPSK	21.41	-1.6	19.81	30	PASS
Band4	15	20025	1	#0	16QAM	21.74	-1.6	20.14	30	PASS
Band4	15	20025	1	#Mid	16QAM	21.91	-1.6	20.31	30	PASS
Band4	15	20025	1	#Max	16QAM	21.32	-1.6	19.72	30	PASS
Band4	15	20025	36	#0	16QAM	20.60	-1.6	19	30	PASS
Band4	15	20025	36	#Mid	16QAM	20.54	-1.6	18.94	30	PASS
Band4	15	20025	36	#Max	16QAM	20.41	-1.6	18.81	30	PASS
Band4	15	20025	75	#0	16QAM	20.44	-1.6	18.84	30	PASS
Band4	15	20175	1	#0	QPSK	22.05	-1.6	20.45	30	PASS
Band4	15	20175	1	#Mid	QPSK	22.71	-1.6	21.11	30	PASS
Band4	15	20175	1	#Max	QPSK	22.71	-1.6	20.51	30	PASS
	15	20175	36	#iviax #0	QPSK	21.26	-1.6	19.66		PASS
Band4									30	
Band4	15	20175	36	#Mid	QPSK	21.36	-1.6	19.76	30	PASS
Band4	15	20175	36	#Max	QPSK	21.39	-1.6	19.79	30	PASS
Band4	15	20175	75	#0	QPSK	21.35	-1.6	19.75	30	PASS
Band4	15	20175	1	#0	16QAM	21.18	-1.6	19.58	30	PASS
Band4	15	20175	1	#Mid	16QAM	21.86	-1.6	20.26	30	PASS
Band4	15	20175	11	#Max	16QAM	21.25	-1.6	19.65	30	PASS
Band4	15	20175	36	#0	16QAM	20.23	-1.6	18.63	30	PASS
Band4	15	20175	36	#Mid	16QAM	20.37	-1.6	18.77	30	PASS
Band4	15	20175	36	#Max	16QAM	20.35	-1.6	18.75	30	PASS
Band4	15	20175	75	#0	16QAM	20.39	-1.6	18.79	30	PASS
Band4	15	20325	1	#0	QPSK	21.88	-1.6	20.28	30	PASS
Band4	15	20325	1	#Mid	QPSK	22.59	-1.6	20.99	30	PASS
Band4	15	20325	1	#Max	QPSK	21.94	-1.6	20.34	30	PASS
Band4	15	20325	36	#0	QPSK	21.23	-1.6	19.63	30	PASS
Band4	15	20325	36	#Mid	QPSK	21.36	-1.6	19.76	30	PASS
Danut	10	20020	50	TIVIIU	जा जा	21.00	- 1.0	10.70	50	1 700