



RF TEST REPORT

Product Name: Tecdesk Model 6

Model Name: Model 6

FCC ID: 2BDUK-MODEL6

Issued For : Tecdesk (UK) Ltd.

Santok House, Unit L, Braintree Industrial Estate, Braintree Road,
Ruislip, HA4 0EJ, UK

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: LGT23K114RF08

Sample Received Date: Nov. 27, 2023

Date of Test: Nov. 27, 2023 – Jan. 12, 2024

Date of Issue: Jan. 12, 2024

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TEST REPORT CERTIFICATION

Applicant: Tecdesk (UK) Ltd.
Address: Santok House, Unit L, Braintree Industrial Estate, Braintree Road,
Ruislip, HA4 0EJ, UK
Manufacturer: Tecdesk (UK) Ltd.
Address: Santok House, Unit L, Braintree Industrial Estate, Braintree Road,
Ruislip, HA4 0EJ, UK
Product Name: Tecdesk Model 6
Trademark: Tecdesk
Model Name: Model 6
Sample Status: Normal

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

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Revision History

Rev.	Issue Date	Contents
00	Jan. 12, 2024	Initial Issue

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
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 3.2 \%$
RF Output Power, Conducted	$\pm 0.87\text{dB}$
Power Spectral Density, Conducted	$\pm 2.11 \text{ dB}$
Unwanted Emission, Conducted	$\pm 0.86\text{dB}$
All Emissions, Radiated (Below 1GHz)	$\pm 3.54\text{dB}$
All Emissions, Radiated (1GHz-18GHz)	$\pm 4.22\text{dB}$
All Emissions, Radiated (18GHz-25GHz)	$\pm 4.81\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 2\%$

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

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:	Tecdesk Model 6
Trademark:	Tecdesk
Model Name:	Model 6
Series Model:	N/A
Model Difference:	N/A
Frequency Bands:	U.S. Bands: LTE FDD Band 5 LTE FDD Band 7 LTE TDD Band 41
SIM Card:	Only one SIM card.
Antenna:	FPC
Antenna gain:	Band 5: 2.67dBi, Band 7: 2.78dBi, Band 41: 2.78dBi
Adapter:	Model: KA1602-0501000DEU Input: AC 100-240V, 50/60Hz, 0.35A Output: 5.0V,1.0A
Battery:	Capacity: 2100mAh Rated Voltage: 3.8 V
Extreme Vol. Limits:	3.4V to 4.35V (Nominal 3.8V)
Extreme Temp. Tolerance:	-10°C to + 55°C
Hardware Version:	Model 6
Software Version:	MODEL6_SW_V2.0_HW_V1.0_VOWFVLTE_240424

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

2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Product Specification Subjective To This Standard	
Tx Frequency	LTE Band 5: 824~849MHz LTE Band 7: 2500~2570MHz LTE Band 41: 2496-2690MHz
Rx Frequency	LTE Band 5: 869-894MHz LTE Band 7: 2620-2690MHz LTE Band 41: 2496-2690MHz
Bandwidth	LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7: 5MHz / 10MHz / 15MHz /20MHz LTE Band 41: 5MHz / 10MHz / 15MHz /20MHz
Type of Modulation	QPSK /16QAM

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 to find 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	M	H
Max. Output Power	5	v	v	v	v			v	v	v	v	v	v	v	v
	7			v	v	v	v	v	v	v	v	v	v	v	v
	41			v	v	v	v	v	v	v	v	v	v	v	v
Peak&Avera Ratio	5				v			v	v	v		v	v	v	v
	7						v	v	v	v		v	v	v	v
	41						v	v	v	v		v	v	v	v

26dB&99% Bandwidth	5	v	v	v	v			v	v			v	v	v	v
	7			v	v	v	v	v	v			v	v	v	v
	41			v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	5	v	v	v	v			v	v	v		v	v	v	v
	7			v	v	v	v	v	v	v		v	v	v	v
	41			v	v	v	v	v	v	v		v	v	v	v
Conducted Spurious Emission	5	v	v	v	v			v	v	v			v	v	v
	7			v	v	v	v	v	v	v			v	v	v
	41			v	v	v	v	v	v	v			v	v	v

Frequency Stability	5				v			v				v		v	
	7				v			v				v		v	
	41				v			v				v		v	
E.R.P.& E.I.R.P.	5	v	v	v	v			v	v	v	v	v	v	v	v
	7			v	v	v	v	v	v	v	v	v	v	v	v
	41			v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	5	v	v	v	v			v		v			v	v	v
	7			v	v	v	v	v		v			v	v	v
	41			v	v	v	v	v		v			v	v	v

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.

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.

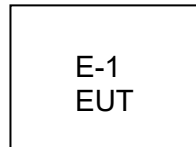


Table 2-1 Equipment Used in EUT System

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 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.

2.1.9 MEASUREMENT 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 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	2023.08.14	2024.08.13
Active loop Antenna	ETS	6502	00049544	2022.06.02	2025.06.01
Bilog Antenna	SCHWARZBECK	VULB 9168	01447	2022.12.12	2025.12.11
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	2023.04.07	2024.04.06
Signal Analyzer	Keysight	N9010B	MY60242508	2023.08.14	2024.08.13
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	2023.08.14	2024.08.13
Attenuator	eastsheep	90db	N/A	2023.04.10	2024.04.09
Testing Software	MTS 8310_2.0.0.0_MWRF-TEST				

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

4. PEAK-TO-AVERAGE RATIO

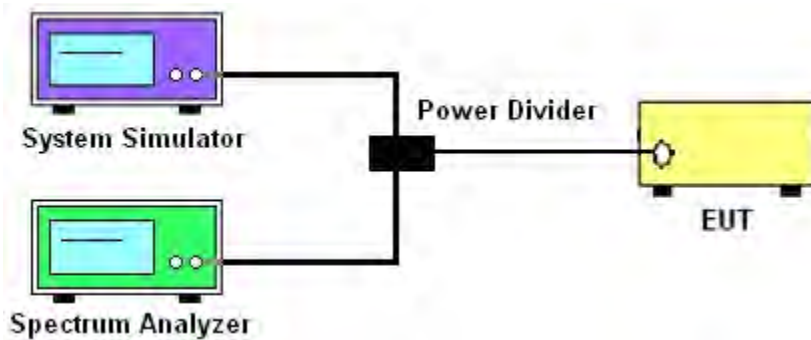
4.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

4.1.1 MEASUREMENT METHOD

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

$PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm)$.

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

5. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

5.1 DESCRIPTION OF THE ERP/EIRP MEASUREMENT

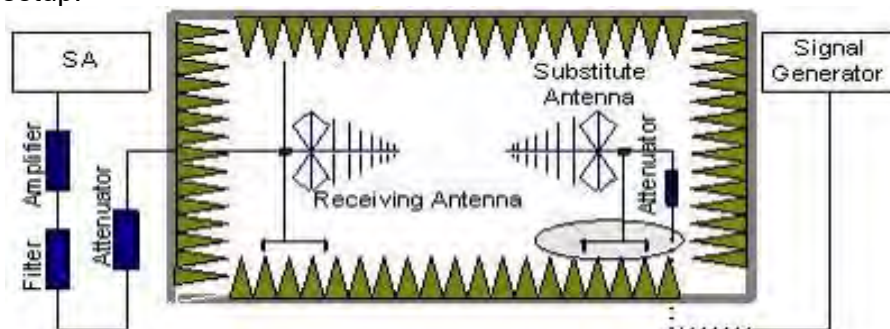
5.1.1 MEASUREMENT METHOD

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.

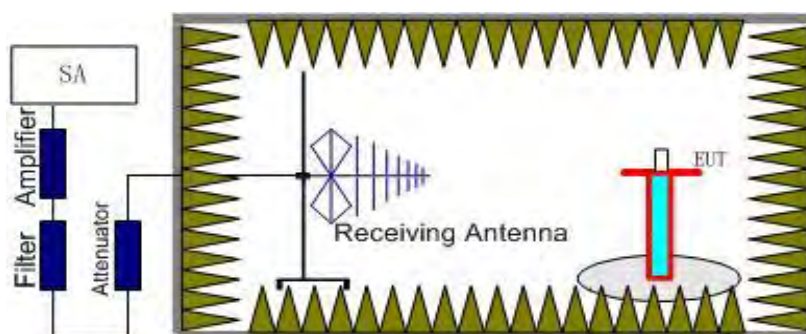
5.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = R_x \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + \text{Gain (dBi)} - 107 \text{ (dBuV to dBm)}$ 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:
 $\text{Power} = \text{PMea} + \text{ARpl}$

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 EUT transmitting 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. $EIRP = S.G \text{ Level} + \text{Gain} - \text{Cable loss}$; $ERP = S.G \text{ Level} + \text{Gain} - \text{Cable loss} - 2.15$.
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

6. OCCUPIED BANDWIDTH

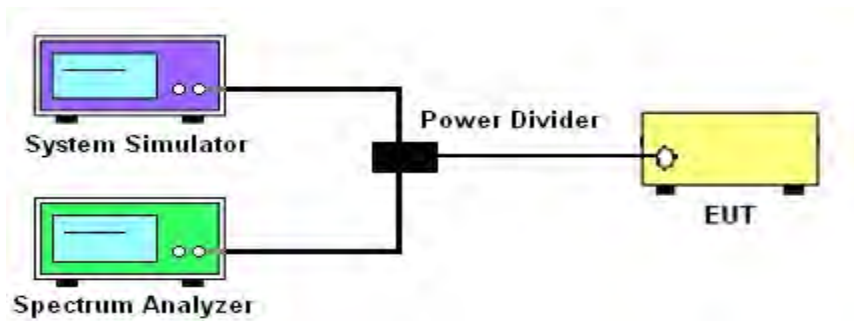
6.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

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 $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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 $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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 $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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.

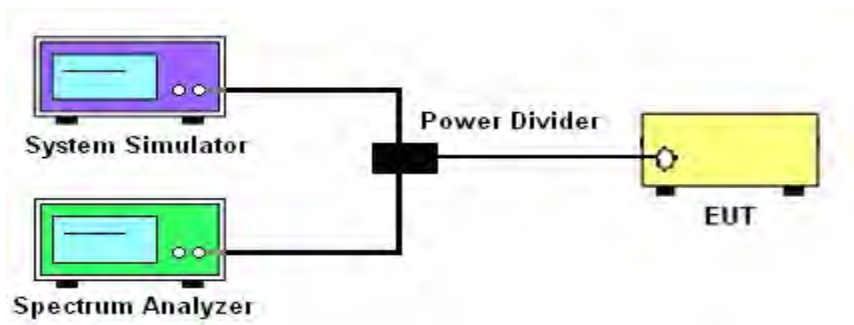
4. §27.53(m)(4)

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 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against 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 $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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.

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 $\geq 1\%$ 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 frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

Band 7:

$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm}.$$

	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

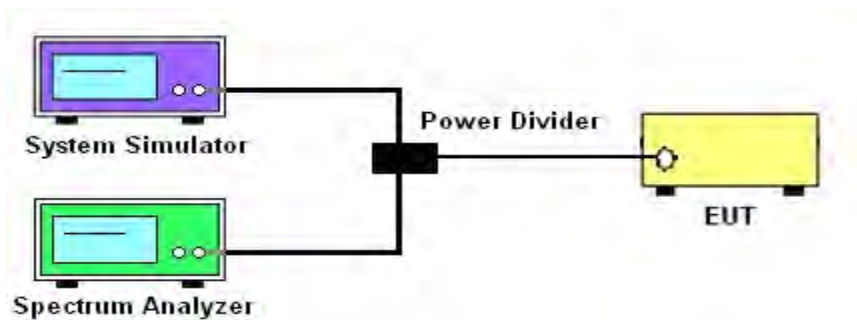
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

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 frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

For Band 7: $P(W) - [43 + 10\log(P)] \text{ (dB)} = -25\text{dBm}$

	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

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 be 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

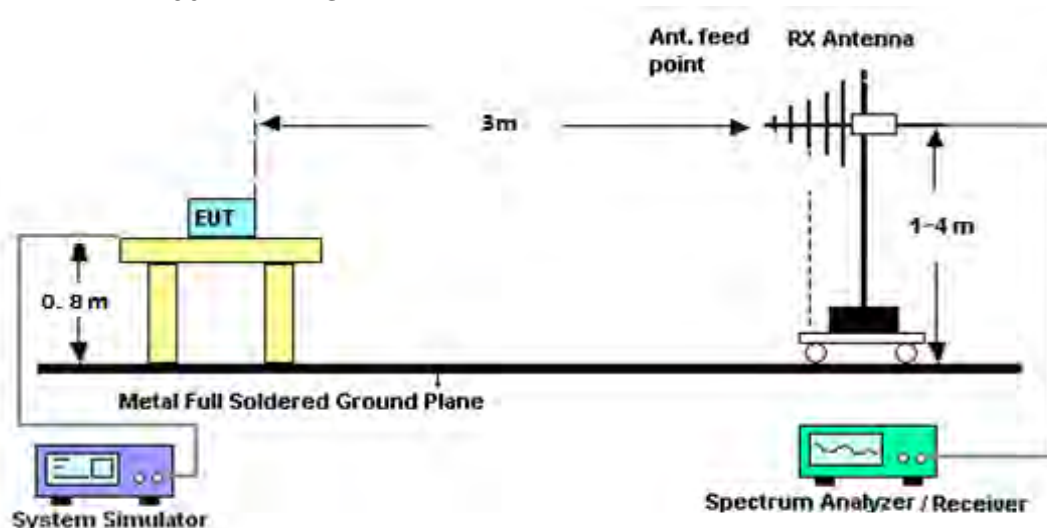
The procedure of radiated spurious emissions is as follows:

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

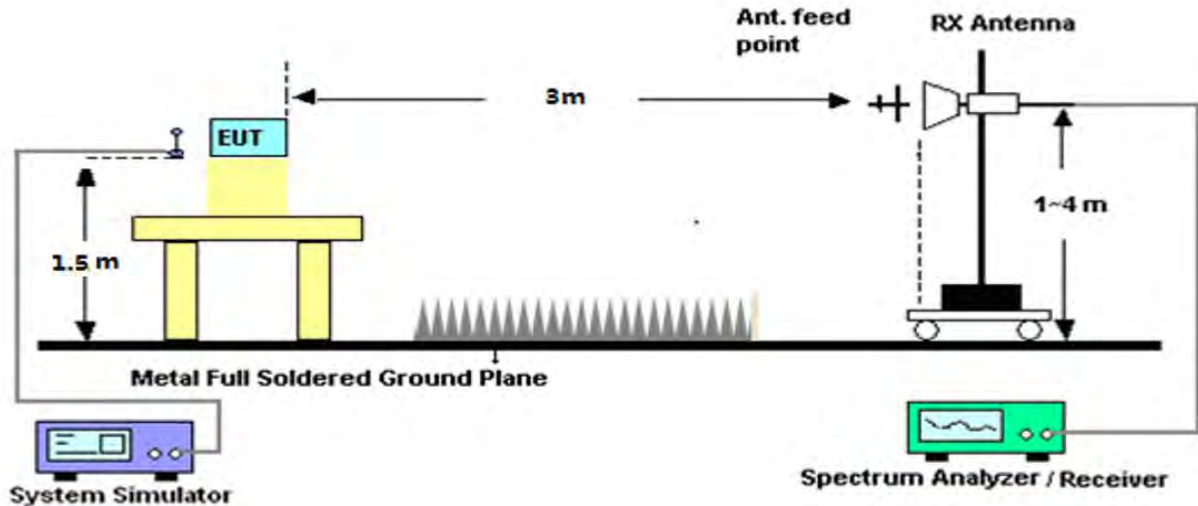
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were 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: $Power = P_{Mea} + AR_{pl}$ For radiated test from 30MHz to 1GHz



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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}$$

For Band 7:

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

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm}$$

$$P_{\text{Mea}} = S.G \text{ Level} + \text{Ant-Cable loss}; \text{Margin} = P_{\text{Mea}} - \text{Limit}.$$

9.1.4 TEST RESULTS

Note: Test chart See Appendix I

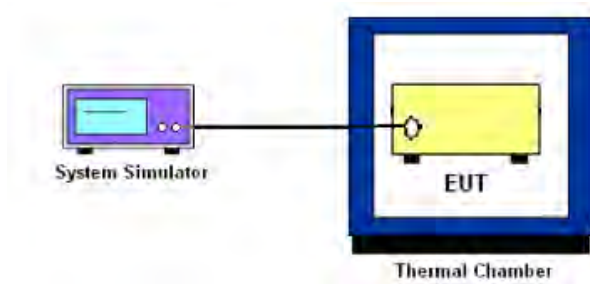
10. FREQUENCY STABILITY

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 $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) 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 $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
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

APPENDIX I - TEST DATA

Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dB)	ERP (dBm)	ERP Limit (dBm)	Verdict
Band5	1.4	20407	1	#0	QPSK	22.77	2.67	23.29	38.45	PASS
Band5	1.4	20407	1	#Mid	QPSK	22.80	2.67	23.32	38.45	PASS
Band5	1.4	20407	1	#Max	QPSK	22.80	2.67	23.32	38.45	PASS
Band5	1.4	20407	3	#0	QPSK	22.66	2.67	23.18	38.45	PASS
Band5	1.4	20407	3	#Mid	QPSK	22.77	2.67	23.29	38.45	PASS
Band5	1.4	20407	3	#Max	QPSK	22.68	2.67	23.20	38.45	PASS
Band5	1.4	20407	6	#0	QPSK	21.64	2.67	22.16	38.45	PASS
Band5	1.4	20407	1	#0	16QAM	22.67	2.67	23.19	38.45	PASS
Band5	1.4	20407	1	#Mid	16QAM	22.50	2.67	23.02	38.45	PASS
Band5	1.4	20407	1	#Max	16QAM	22.51	2.67	23.03	38.45	PASS
Band5	1.4	20407	3	#0	16QAM	21.83	2.67	22.35	38.45	PASS
Band5	1.4	20407	3	#Mid	16QAM	21.81	2.67	22.33	38.45	PASS
Band5	1.4	20407	3	#Max	16QAM	21.81	2.67	22.33	38.45	PASS
Band5	1.4	20407	6	#0	16QAM	20.82	2.67	21.34	38.45	PASS
Band5	1.4	20525	1	#0	QPSK	22.78	2.67	23.30	38.45	PASS
Band5	1.4	20525	1	#Mid	QPSK	22.90	2.67	23.42	38.45	PASS
Band5	1.4	20525	1	#Max	QPSK	22.88	2.67	23.40	38.45	PASS
Band5	1.4	20525	3	#0	QPSK	22.85	2.67	23.37	38.45	PASS
Band5	1.4	20525	3	#Mid	QPSK	22.89	2.67	23.41	38.45	PASS
Band5	1.4	20525	3	#Max	QPSK	22.91	2.67	23.43	38.45	PASS
Band5	1.4	20525	6	#0	QPSK	21.74	2.67	22.26	38.45	PASS
Band5	1.4	20525	1	#0	16QAM	22.57	2.67	23.09	38.45	PASS
Band5	1.4	20525	1	#Mid	16QAM	22.52	2.67	23.04	38.45	PASS
Band5	1.4	20525	1	#Max	16QAM	22.48	2.67	23.00	38.45	PASS
Band5	1.4	20525	3	#0	16QAM	21.84	2.67	22.36	38.45	PASS
Band5	1.4	20525	3	#Mid	16QAM	21.80	2.67	22.32	38.45	PASS
Band5	1.4	20525	3	#Max	16QAM	21.80	2.67	22.32	38.45	PASS
Band5	1.4	20525	6	#0	16QAM	20.77	2.67	21.29	38.45	PASS
Band5	1.4	20643	1	#0	QPSK	23.35	2.67	23.87	38.45	PASS
Band5	1.4	20643	1	#Mid	QPSK	23.29	2.67	23.81	38.45	PASS
Band5	1.4	20643	1	#Max	QPSK	23.32	2.67	23.84	38.45	PASS
Band5	1.4	20643	3	#0	QPSK	23.34	2.67	23.86	38.45	PASS
Band5	1.4	20643	3	#Mid	QPSK	23.21	2.67	23.73	38.45	PASS
Band5	1.4	20643	3	#Max	QPSK	23.26	2.67	23.78	38.45	PASS
Band5	1.4	20643	6	#0	QPSK	22.28	2.67	22.80	38.45	PASS
Band5	1.4	20643	1	#0	16QAM	23.39	2.67	23.91	38.45	PASS
Band5	1.4	20643	1	#Mid	16QAM	23.17	2.67	23.69	38.45	PASS
Band5	1.4	20643	1	#Max	16QAM	23.16	2.67	23.68	38.45	PASS
Band5	1.4	20643	3	#0	16QAM	22.70	2.67	23.22	38.45	PASS
Band5	1.4	20643	3	#Mid	16QAM	22.55	2.67	23.07	38.45	PASS
Band5	1.4	20643	3	#Max	16QAM	22.62	2.67	23.14	38.45	PASS
Band5	1.4	20643	6	#0	16QAM	21.49	2.67	22.01	38.45	PASS
Band5	3	20415	1	#0	QPSK	22.56	2.67	23.08	38.45	PASS
Band5	3	20415	1	#Mid	QPSK	22.59	2.67	23.11	38.45	PASS
Band5	3	20415	1	#Max	QPSK	22.62	2.67	23.14	38.45	PASS
Band5	3	20415	8	#0	QPSK	21.72	2.67	22.24	38.45	PASS
Band5	3	20415	8	#Mid	QPSK	21.71	2.67	22.23	38.45	PASS
Band5	3	20415	8	#Max	QPSK	21.80	2.67	22.32	38.45	PASS
Band5	3	20415	15	#0	QPSK	21.54	2.67	22.06	38.45	PASS
Band5	3	20415	1	#0	16QAM	22.48	2.67	23.00	38.45	PASS
Band5	3	20415	1	#Mid	16QAM	22.39	2.67	22.91	38.45	PASS
Band5	3	20415	1	#Max	16QAM	22.49	2.67	23.01	38.45	PASS
Band5	3	20415	8	#0	16QAM	20.67	2.67	21.19	38.45	PASS
Band5	3	20415	8	#Mid	16QAM	20.46	2.67	20.98	38.45	PASS
Band5	3	20415	8	#Max	16QAM	20.44	2.67	20.96	38.45	PASS

Band5	3	20415	15	#0	16QAM	20.67	2.67	21.19	38.45	PASS
Band5	3	20525	1	#0	QPSK	22.89	2.67	23.41	38.45	PASS
Band5	3	20525	1	#Mid	QPSK	22.96	2.67	23.48	38.45	PASS
Band5	3	20525	1	#Max	QPSK	23.01	2.67	23.53	38.45	PASS
Band5	3	20525	8	#0	QPSK	21.89	2.67	22.41	38.45	PASS
Band5	3	20525	8	#Mid	QPSK	21.91	2.67	22.43	38.45	PASS
Band5	3	20525	8	#Max	QPSK	21.88	2.67	22.40	38.45	PASS
Band5	3	20525	15	#0	QPSK	21.89	2.67	22.41	38.45	PASS
Band5	3	20525	1	#0	16QAM	21.85	2.67	22.37	38.45	PASS
Band5	3	20525	1	#Mid	16QAM	21.85	2.67	22.37	38.45	PASS
Band5	3	20525	1	#Max	16QAM	21.86	2.67	22.38	38.45	PASS
Band5	3	20525	8	#0	16QAM	21.05	2.67	21.57	38.45	PASS
Band5	3	20525	8	#Mid	16QAM	20.84	2.67	21.36	38.45	PASS
Band5	3	20525	8	#Max	16QAM	20.90	2.67	21.42	38.45	PASS
Band5	3	20525	15	#0	16QAM	20.78	2.67	21.30	38.45	PASS
Band5	3	20635	1	#0	QPSK	23.37	2.67	23.89	38.45	PASS
Band5	3	20635	1	#Mid	QPSK	23.20	2.67	23.72	38.45	PASS
Band5	3	20635	1	#Max	QPSK	23.44	2.67	23.96	38.45	PASS
Band5	3	20635	8	#0	QPSK	22.33	2.67	22.85	38.45	PASS
Band5	3	20635	8	#Mid	QPSK	22.28	2.67	22.80	38.45	PASS
Band5	3	20635	8	#Max	QPSK	22.24	2.67	22.76	38.45	PASS
Band5	3	20635	15	#0	QPSK	22.45	2.67	22.97	38.45	PASS
Band5	3	20635	1	#0	16QAM	22.48	2.67	23.00	38.45	PASS
Band5	3	20635	1	#Mid	16QAM	22.43	2.67	22.95	38.45	PASS
Band5	3	20635	1	#Max	16QAM	22.40	2.67	22.92	38.45	PASS
Band5	3	20635	8	#0	16QAM	21.39	2.67	21.91	38.45	PASS
Band5	3	20635	8	#Mid	16QAM	21.36	2.67	21.88	38.45	PASS
Band5	3	20635	8	#Max	16QAM	21.41	2.67	21.93	38.45	PASS
Band5	3	20635	15	#0	16QAM	21.36	2.67	21.88	38.45	PASS
Band5	5	20425	1	#0	QPSK	22.56	2.67	23.08	38.45	PASS
Band5	5	20425	1	#Mid	QPSK	22.48	2.67	23.00	38.45	PASS
Band5	5	20425	1	#Max	QPSK	22.65	2.67	23.17	38.45	PASS
Band5	5	20425	12	#0	QPSK	21.70	2.67	22.22	38.45	PASS
Band5	5	20425	12	#Mid	QPSK	21.56	2.67	22.08	38.45	PASS
Band5	5	20425	12	#Max	QPSK	21.64	2.67	22.16	38.45	PASS
Band5	5	20425	25	#0	QPSK	21.59	2.67	22.11	38.45	PASS
Band5	5	20425	1	#0	16QAM	21.72	2.67	22.24	38.45	PASS
Band5	5	20425	1	#Mid	16QAM	21.76	2.67	22.28	38.45	PASS
Band5	5	20425	1	#Max	16QAM	21.82	2.67	22.34	38.45	PASS
Band5	5	20425	12	#0	16QAM	20.58	2.67	21.10	38.45	PASS
Band5	5	20425	12	#Mid	16QAM	20.40	2.67	20.92	38.45	PASS
Band5	5	20425	12	#Max	16QAM	20.33	2.67	20.85	38.45	PASS
Band5	5	20425	25	#0	16QAM	20.55	2.67	21.07	38.45	PASS
Band5	5	20525	1	#0	QPSK	22.76	2.67	23.28	38.45	PASS
Band5	5	20525	1	#Mid	QPSK	22.78	2.67	23.30	38.45	PASS
Band5	5	20525	1	#Max	QPSK	23.04	2.67	23.56	38.45	PASS
Band5	5	20525	12	#0	QPSK	21.78	2.67	22.30	38.45	PASS
Band5	5	20525	12	#Mid	QPSK	21.87	2.67	22.39	38.45	PASS
Band5	5	20525	12	#Max	QPSK	21.91	2.67	22.43	38.45	PASS
Band5	5	20525	25	#0	QPSK	21.78	2.67	22.30	38.45	PASS
Band5	5	20525	1	#0	16QAM	21.47	2.67	21.99	38.45	PASS
Band5	5	20525	1	#Mid	16QAM	21.41	2.67	21.93	38.45	PASS
Band5	5	20525	1	#Max	16QAM	21.61	2.67	22.13	38.45	PASS
Band5	5	20525	12	#0	16QAM	20.97	2.67	21.49	38.45	PASS
Band5	5	20525	12	#Mid	16QAM	20.71	2.67	21.23	38.45	PASS
Band5	5	20525	12	#Max	16QAM	20.76	2.67	21.28	38.45	PASS
Band5	5	20525	25	#0	16QAM	20.96	2.67	21.48	38.45	PASS
Band5	5	20625	1	#0	QPSK	23.10	2.67	23.62	38.45	PASS
Band5	5	20625	1	#Mid	QPSK	23.18	2.67	23.70	38.45	PASS
Band5	5	20625	1	#Max	QPSK	23.25	2.67	23.77	38.45	PASS
Band5	5	20625	12	#0	QPSK	22.11	2.67	22.63	38.45	PASS

Band5	5	20625	12	#Mid	QPSK	22.28	2.67	22.80	38.45	PASS
Band5	5	20625	12	#Max	QPSK	22.41	2.67	22.93	38.45	PASS
Band5	5	20625	25	#0	QPSK	22.39	2.67	22.91	38.45	PASS
Band5	5	20625	1	#0	16QAM	22.07	2.67	22.59	38.45	PASS
Band5	5	20625	1	#Mid	16QAM	22.27	2.67	22.79	38.45	PASS
Band5	5	20625	1	#Max	16QAM	22.15	2.67	22.67	38.45	PASS
Band5	5	20625	12	#0	16QAM	21.38	2.67	21.90	38.45	PASS
Band5	5	20625	12	#Mid	16QAM	21.33	2.67	21.85	38.45	PASS
Band5	5	20625	12	#Max	16QAM	21.35	2.67	21.87	38.45	PASS
Band5	5	20625	25	#0	16QAM	21.34	2.67	21.86	38.45	PASS
Band5	10	20450	1	#0	QPSK	22.74	2.67	23.26	38.45	PASS
Band5	10	20450	1	#Mid	QPSK	22.73	2.67	23.25	38.45	PASS
Band5	10	20450	1	#Max	QPSK	22.85	2.67	23.37	38.45	PASS
Band5	10	20450	25	#0	QPSK	21.56	2.67	22.08	38.45	PASS
Band5	10	20450	25	#Mid	QPSK	21.72	2.67	22.24	38.45	PASS
Band5	10	20450	25	#Max	QPSK	21.73	2.67	22.25	38.45	PASS
Band5	10	20450	50	#0	QPSK	21.85	2.67	22.37	38.45	PASS
Band5	10	20450	1	#0	16QAM	22.61	2.67	23.13	38.45	PASS
Band5	10	20450	1	#Mid	16QAM	22.68	2.67	23.20	38.45	PASS
Band5	10	20450	1	#Max	16QAM	22.80	2.67	23.32	38.45	PASS
Band5	10	20450	25	#0	16QAM	20.39	2.67	20.91	38.45	PASS
Band5	10	20450	25	#Mid	16QAM	20.75	2.67	21.27	38.45	PASS
Band5	10	20450	25	#Max	16QAM	20.57	2.67	21.09	38.45	PASS
Band5	10	20450	50	#0	16QAM	20.73	2.67	21.25	38.45	PASS
Band5	10	20525	1	#0	QPSK	22.90	2.67	23.42	38.45	PASS
Band5	10	20525	1	#Mid	QPSK	23.05	2.67	23.57	38.45	PASS
Band5	10	20525	1	#Max	QPSK	23.28	2.67	23.80	38.45	PASS
Band5	10	20525	25	#0	QPSK	21.81	2.67	22.33	38.45	PASS
Band5	10	20525	25	#Mid	QPSK	21.77	2.67	22.29	38.45	PASS
Band5	10	20525	25	#Max	QPSK	22.02	2.67	22.54	38.45	PASS
Band5	10	20525	50	#0	QPSK	21.89	2.67	22.41	38.45	PASS
Band5	10	20525	1	#0	16QAM	21.67	2.67	22.19	38.45	PASS
Band5	10	20525	1	#Mid	16QAM	21.79	2.67	22.31	38.45	PASS
Band5	10	20525	1	#Max	16QAM	22.08	2.67	22.60	38.45	PASS
Band5	10	20525	25	#0	16QAM	20.99	2.67	21.51	38.45	PASS
Band5	10	20525	25	#Mid	16QAM	20.90	2.67	21.42	38.45	PASS
Band5	10	20525	25	#Max	16QAM	21.28	2.67	21.80	38.45	PASS
Band5	10	20525	50	#0	16QAM	20.86	2.67	21.38	38.45	PASS
Band5	10	20600	1	#0	QPSK	23.02	2.67	23.54	38.45	PASS
Band5	10	20600	1	#Mid	QPSK	23.25	2.67	23.77	38.45	PASS
Band5	10	20600	1	#Max	QPSK	23.34	2.67	23.86	38.45	PASS
Band5	10	20600	25	#0	QPSK	22.06	2.67	22.58	38.45	PASS
Band5	10	20600	25	#Mid	QPSK	22.29	2.67	22.81	38.45	PASS
Band5	10	20600	25	#Max	QPSK	22.44	2.67	22.96	38.45	PASS
Band5	10	20600	50	#0	QPSK	22.28	2.67	22.80	38.45	PASS
Band5	10	20600	1	#0	16QAM	21.82	2.67	22.34	38.45	PASS
Band5	10	20600	1	#Mid	16QAM	22.29	2.67	22.81	38.45	PASS
Band5	10	20600	1	#Max	16QAM	22.16	2.67	22.68	38.45	PASS
Band5	10	20600	25	#0	16QAM	21.04	2.67	21.56	38.45	PASS
Band5	10	20600	25	#Mid	16QAM	21.29	2.67	21.81	38.45	PASS
Band5	10	20600	25	#Max	16QAM	21.41	2.67	21.93	38.45	PASS
Band5	10	20600	50	#0	16QAM	21.30	2.67	21.82	38.45	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Band7	5	20775	1	#0	QPSK	22.68	2.78	25.46	33.01	PASS
Band7	5	20775	1	#Mid	QPSK	22.61	2.78	25.39	33.01	PASS
Band7	5	20775	1	#Max	QPSK	22.58	2.78	25.36	33.01	PASS
Band7	5	20775	12	#0	QPSK	21.61	2.78	24.39	33.01	PASS
Band7	5	20775	12	#Mid	QPSK	21.66	2.78	24.44	33.01	PASS
Band7	5	20775	12	#Max	QPSK	21.65	2.78	24.43	33.01	PASS
Band7	5	20775	25	#0	QPSK	21.63	2.78	24.41	33.01	PASS
Band7	5	20775	1	#0	16QAM	21.41	2.78	24.19	33.01	PASS
Band7	5	20775	1	#Mid	16QAM	21.41	2.78	24.19	33.01	PASS
Band7	5	20775	1	#Max	16QAM	21.39	2.78	24.17	33.01	PASS
Band7	5	20775	12	#0	16QAM	20.71	2.78	23.49	33.01	PASS
Band7	5	20775	12	#Mid	16QAM	20.55	2.78	23.33	33.01	PASS
Band7	5	20775	12	#Max	16QAM	20.62	2.78	23.40	33.01	PASS
Band7	5	20775	25	#0	16QAM	20.77	2.78	23.55	33.01	PASS
Band7	5	21100	1	#0	QPSK	22.60	2.78	25.38	33.01	PASS
Band7	5	21100	1	#Mid	QPSK	22.44	2.78	25.22	33.01	PASS
Band7	5	21100	1	#Max	QPSK	22.69	2.78	25.47	33.01	PASS
Band7	5	21100	12	#0	QPSK	21.76	2.78	24.54	33.01	PASS
Band7	5	21100	12	#Mid	QPSK	21.79	2.78	24.57	33.01	PASS
Band7	5	21100	12	#Max	QPSK	21.81	2.78	24.59	33.01	PASS
Band7	5	21100	25	#0	QPSK	21.78	2.78	24.56	33.01	PASS
Band7	5	21100	1	#0	16QAM	21.92	2.78	24.70	33.01	PASS
Band7	5	21100	1	#Mid	16QAM	21.90	2.78	24.68	33.01	PASS
Band7	5	21100	1	#Max	16QAM	21.95	2.78	24.73	33.01	PASS
Band7	5	21100	12	#0	16QAM	20.85	2.78	23.63	33.01	PASS
Band7	5	21100	12	#Mid	16QAM	20.80	2.78	23.58	33.01	PASS
Band7	5	21100	12	#Max	16QAM	20.85	2.78	23.63	33.01	PASS
Band7	5	21100	25	#0	16QAM	20.82	2.78	23.60	33.01	PASS
Band7	5	21425	1	#0	QPSK	22.56	2.78	25.34	33.01	PASS
Band7	5	21425	1	#Mid	QPSK	22.56	2.78	25.34	33.01	PASS
Band7	5	21425	1	#Max	QPSK	22.54	2.78	25.32	33.01	PASS
Band7	5	21425	12	#0	QPSK	21.70	2.78	24.48	33.01	PASS
Band7	5	21425	12	#Mid	QPSK	21.53	2.78	24.31	33.01	PASS
Band7	5	21425	12	#Max	QPSK	21.54	2.78	24.32	33.01	PASS
Band7	5	21425	25	#0	QPSK	21.51	2.78	24.29	33.01	PASS
Band7	5	21425	1	#0	16QAM	21.89	2.78	24.67	33.01	PASS
Band7	5	21425	1	#Mid	16QAM	21.88	2.78	24.66	33.01	PASS
Band7	5	21425	1	#Max	16QAM	21.93	2.78	24.71	33.01	PASS
Band7	5	21425	12	#0	16QAM	20.48	2.78	23.26	33.01	PASS
Band7	5	21425	12	#Mid	16QAM	20.60	2.78	23.38	33.01	PASS
Band7	5	21425	12	#Max	16QAM	20.51	2.78	23.29	33.01	PASS
Band7	5	21425	25	#0	16QAM	20.73	2.78	23.51	33.01	PASS
Band7	10	20800	1	#0	QPSK	22.69	2.78	25.47	33.01	PASS
Band7	10	20800	1	#Mid	QPSK	22.51	2.78	25.29	33.01	PASS
Band7	10	20800	1	#Max	QPSK	22.50	2.78	25.28	33.01	PASS
Band7	10	20800	25	#0	QPSK	21.65	2.78	24.43	33.01	PASS
Band7	10	20800	25	#Mid	QPSK	21.65	2.78	24.43	33.01	PASS
Band7	10	20800	25	#Max	QPSK	21.65	2.78	24.43	33.01	PASS
Band7	10	20800	50	#0	QPSK	21.58	2.78	24.36	33.01	PASS
Band7	10	20800	1	#0	16QAM	22.89	2.78	25.67	33.01	PASS
Band7	10	20800	1	#Mid	16QAM	22.81	2.78	25.59	33.01	PASS
Band7	10	20800	1	#Max	16QAM	22.79	2.78	25.57	33.01	PASS
Band7	10	20800	25	#0	16QAM	20.65	2.78	23.43	33.01	PASS
Band7	10	20800	25	#Mid	16QAM	20.59	2.78	23.37	33.01	PASS
Band7	10	20800	25	#Max	16QAM	20.64	2.78	23.42	33.01	PASS
Band7	10	20800	50	#0	16QAM	20.69	2.78	23.47	33.01	PASS
Band7	10	21100	1	#0	QPSK	22.83	2.78	25.61	33.01	PASS
Band7	10	21100	1	#Mid	QPSK	22.78	2.78	25.56	33.01	PASS
Band7	10	21100	1	#Max	QPSK	22.84	2.78	25.62	33.01	PASS

Band7	10	21100	25	#0	QPSK	21.72	2.78	24.50	33.01	PASS
Band7	10	21100	25	#Mid	QPSK	21.80	2.78	24.58	33.01	PASS
Band7	10	21100	25	#Max	QPSK	21.81	2.78	24.59	33.01	PASS
Band7	10	21100	50	#0	QPSK	21.71	2.78	24.49	33.01	PASS
Band7	10	21100	1	#0	16QAM	21.90	2.78	24.68	33.01	PASS
Band7	10	21100	1	#Mid	16QAM	21.94	2.78	24.72	33.01	PASS
Band7	10	21100	1	#Max	16QAM	21.97	2.78	24.75	33.01	PASS
Band7	10	21100	25	#0	16QAM	20.93	2.78	23.71	33.01	PASS
Band7	10	21100	25	#Mid	16QAM	20.92	2.78	23.70	33.01	PASS
Band7	10	21100	25	#Max	16QAM	20.90	2.78	23.68	33.01	PASS
Band7	10	21100	50	#0	16QAM	20.91	2.78	23.69	33.01	PASS
Band7	10	21400	1	#0	QPSK	22.58	2.78	25.36	33.01	PASS
Band7	10	21400	1	#Mid	QPSK	22.62	2.78	25.40	33.01	PASS
Band7	10	21400	1	#Max	QPSK	22.75	2.78	25.53	33.01	PASS
Band7	10	21400	25	#0	QPSK	21.50	2.78	24.28	33.01	PASS
Band7	10	21400	25	#Mid	QPSK	21.66	2.78	24.44	33.01	PASS
Band7	10	21400	25	#Max	QPSK	21.68	2.78	24.46	33.01	PASS
Band7	10	21400	50	#0	QPSK	21.53	2.78	24.31	33.01	PASS
Band7	10	21400	1	#0	16QAM	21.66	2.78	24.44	33.01	PASS
Band7	10	21400	1	#Mid	16QAM	21.76	2.78	24.54	33.01	PASS
Band7	10	21400	1	#Max	16QAM	21.76	2.78	24.54	33.01	PASS
Band7	10	21400	25	#0	16QAM	20.72	2.78	23.50	33.01	PASS
Band7	10	21400	25	#Mid	16QAM	20.77	2.78	23.55	33.01	PASS
Band7	10	21400	25	#Max	16QAM	20.73	2.78	23.51	33.01	PASS
Band7	10	21400	50	#0	16QAM	20.79	2.78	23.57	33.01	PASS
Band7	15	20825	1	#0	QPSK	22.58	2.78	25.36	33.01	PASS
Band7	15	20825	1	#Mid	QPSK	22.52	2.78	25.30	33.01	PASS
Band7	15	20825	1	#Max	QPSK	22.46	2.78	25.24	33.01	PASS
Band7	15	20825	36	#0	QPSK	21.64	2.78	24.42	33.01	PASS
Band7	15	20825	36	#Mid	QPSK	21.62	2.78	24.40	33.01	PASS
Band7	15	20825	36	#Max	QPSK	21.50	2.78	24.28	33.01	PASS
Band7	15	20825	75	#0	QPSK	21.63	2.78	24.41	33.01	PASS
Band7	15	20825	1	#0	16QAM	22.91	2.78	25.69	33.01	PASS
Band7	15	20825	1	#Mid	16QAM	22.77	2.78	25.55	33.01	PASS
Band7	15	20825	1	#Max	16QAM	22.85	2.78	25.63	33.01	PASS
Band7	15	20825	36	#0	16QAM	20.75	2.78	23.53	33.01	PASS
Band7	15	20825	36	#Mid	16QAM	20.72	2.78	23.50	33.01	PASS
Band7	15	20825	36	#Max	16QAM	20.74	2.78	23.52	33.01	PASS
Band7	15	20825	75	#0	16QAM	20.76	2.78	23.54	33.01	PASS
Band7	15	21100	1	#0	QPSK	22.71	2.78	25.49	33.01	PASS
Band7	15	21100	1	#Mid	QPSK	22.80	2.78	25.58	33.01	PASS
Band7	15	21100	1	#Max	QPSK	22.74	2.78	25.52	33.01	PASS
Band7	15	21100	36	#0	QPSK	21.73	2.78	24.51	33.01	PASS
Band7	15	21100	36	#Mid	QPSK	21.87	2.78	24.65	33.01	PASS
Band7	15	21100	36	#Max	QPSK	21.80	2.78	24.58	33.01	PASS
Band7	15	21100	75	#0	QPSK	21.67	2.78	24.45	33.01	PASS
Band7	15	21100	1	#0	16QAM	21.84	2.78	24.62	33.01	PASS
Band7	15	21100	1	#Mid	16QAM	21.80	2.78	24.58	33.01	PASS
Band7	15	21100	1	#Max	16QAM	21.81	2.78	24.59	33.01	PASS
Band7	15	21100	36	#0	16QAM	21.04	2.78	23.82	33.01	PASS
Band7	15	21100	36	#Mid	16QAM	20.90	2.78	23.68	33.01	PASS
Band7	15	21100	36	#Max	16QAM	21.03	2.78	23.81	33.01	PASS
Band7	15	21100	75	#0	16QAM	20.85	2.78	23.63	33.01	PASS
Band7	15	21375	1	#0	QPSK	22.65	2.78	25.43	33.01	PASS
Band7	15	21375	1	#Mid	QPSK	22.65	2.78	25.43	33.01	PASS
Band7	15	21375	1	#Max	QPSK	22.76	2.78	25.54	33.01	PASS
Band7	15	21375	36	#0	QPSK	21.66	2.78	24.44	33.01	PASS
Band7	15	21375	36	#Mid	QPSK	21.49	2.78	24.27	33.01	PASS
Band7	15	21375	36	#Max	QPSK	21.54	2.78	24.32	33.01	PASS
Band7	15	21375	75	#0	QPSK	21.51	2.78	24.29	33.01	PASS
Band7	15	21375	1	#0	16QAM	22.37	2.78	25.15	33.01	PASS

Band7	15	21375	1	#Mid	16QAM	22.42	2.78	25.20	33.01	PASS
Band7	15	21375	1	#Max	16QAM	22.50	2.78	25.28	33.01	PASS
Band7	15	21375	36	#0	16QAM	20.70	2.78	23.48	33.01	PASS
Band7	15	21375	36	#Mid	16QAM	20.64	2.78	23.42	33.01	PASS
Band7	15	21375	36	#Max	16QAM	20.64	2.78	23.42	33.01	PASS
Band7	15	21375	75	#0	16QAM	20.85	2.78	23.63	33.01	PASS
Band7	20	20850	1	#0	QPSK	22.61	2.78	25.39	33.01	PASS
Band7	20	20850	1	#Mid	QPSK	22.48	2.78	25.26	33.01	PASS
Band7	20	20850	1	#Max	QPSK	22.53	2.78	25.31	33.01	PASS
Band7	20	20850	50	#0	QPSK	21.65	2.78	24.43	33.01	PASS
Band7	20	20850	50	#Mid	QPSK	21.62	2.78	24.40	33.01	PASS
Band7	20	20850	50	#Max	QPSK	21.55	2.78	24.33	33.01	PASS
Band7	20	20850	100	#0	QPSK	21.65	2.78	24.43	33.01	PASS
Band7	20	20850	1	#0	16QAM	21.49	2.78	24.27	33.01	PASS
Band7	20	20850	1	#Mid	16QAM	21.44	2.78	24.22	33.01	PASS
Band7	20	20850	1	#Max	16QAM	21.54	2.78	24.32	33.01	PASS
Band7	20	20850	50	#0	16QAM	20.78	2.78	23.56	33.01	PASS
Band7	20	20850	50	#Mid	16QAM	20.77	2.78	23.55	33.01	PASS
Band7	20	20850	50	#Max	16QAM	20.75	2.78	23.53	33.01	PASS
Band7	20	20850	100	#0	16QAM	20.63	2.78	23.41	33.01	PASS
Band7	20	21100	1	#0	QPSK	22.82	2.78	25.60	33.01	PASS
Band7	20	21100	1	#Mid	QPSK	22.90	2.78	25.68	33.01	PASS
Band7	20	21100	1	#Max	QPSK	22.76	2.78	25.54	33.01	PASS
Band7	20	21100	50	#0	QPSK	21.84	2.78	24.62	33.01	PASS
Band7	20	21100	50	#Mid	QPSK	21.79	2.78	24.57	33.01	PASS
Band7	20	21100	50	#Max	QPSK	21.74	2.78	24.52	33.01	PASS
Band7	20	21100	100	#0	QPSK	21.78	2.78	24.56	33.01	PASS
Band7	20	21100	1	#0	16QAM	22.04	2.78	24.82	33.01	PASS
Band7	20	21100	1	#Mid	16QAM	22.05	2.78	24.83	33.01	PASS
Band7	20	21100	1	#Max	16QAM	21.99	2.78	24.77	33.01	PASS
Band7	20	21100	50	#0	16QAM	20.88	2.78	23.66	33.01	PASS
Band7	20	21100	50	#Mid	16QAM	20.80	2.78	23.58	33.01	PASS
Band7	20	21100	50	#Max	16QAM	20.77	2.78	23.55	33.01	PASS
Band7	20	21100	100	#0	16QAM	20.81	2.78	23.59	33.01	PASS
Band7	20	21350	1	#0	QPSK	22.77	2.78	25.55	33.01	PASS
Band7	20	21350	1	#Mid	QPSK	22.76	2.78	25.54	33.01	PASS
Band7	20	21350	1	#Max	QPSK	22.93	2.78	25.71	33.01	PASS
Band7	20	21350	50	#0	QPSK	21.66	2.78	24.44	33.01	PASS
Band7	20	21350	50	#Mid	QPSK	21.54	2.78	24.32	33.01	PASS
Band7	20	21350	50	#Max	QPSK	21.53	2.78	24.31	33.01	PASS
Band7	20	21350	100	#0	QPSK	21.55	2.78	24.33	33.01	PASS
Band7	20	21350	1	#0	16QAM	21.61	2.78	24.39	33.01	PASS
Band7	20	21350	1	#Mid	16QAM	21.51	2.78	24.29	33.01	PASS
Band7	20	21350	1	#Max	16QAM	21.77	2.78	24.55	33.01	PASS
Band7	20	21350	50	#0	16QAM	20.69	2.78	23.47	33.01	PASS
Band7	20	21350	50	#Mid	16QAM	20.65	2.78	23.43	33.01	PASS
Band7	20	21350	50	#Max	16QAM	20.69	2.78	23.47	33.01	PASS
Band7	20	21350	100	#0	16QAM	20.68	2.78	23.46	33.01	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Band41	5	39675	1	#0	QPSK	22.76	2.78	25.54	33.01	PASS
Band41	5	39675	1	#Mid	QPSK	22.71	2.78	25.49	33.01	PASS
Band41	5	39675	1	#Max	QPSK	22.71	2.78	25.49	33.01	PASS
Band41	5	39675	12	#0	QPSK	21.84	2.78	24.62	33.01	PASS
Band41	5	39675	12	#Mid	QPSK	21.84	2.78	24.62	33.01	PASS
Band41	5	39675	12	#Max	QPSK	21.67	2.78	24.45	33.01	PASS
Band41	5	39675	25	#0	QPSK	21.71	2.78	24.49	33.01	PASS
Band41	5	39675	1	#0	16QAM	21.59	2.78	24.37	33.01	PASS
Band41	5	39675	1	#Mid	16QAM	21.48	2.78	24.26	33.01	PASS
Band41	5	39675	1	#Max	16QAM	21.46	2.78	24.24	33.01	PASS
Band41	5	39675	12	#0	16QAM	20.79	2.78	23.57	33.01	PASS
Band41	5	39675	12	#Mid	16QAM	20.77	2.78	23.55	33.01	PASS
Band41	5	39675	12	#Max	16QAM	20.76	2.78	23.54	33.01	PASS
Band41	5	39675	25	#0	16QAM	20.84	2.78	23.62	33.01	PASS
Band41	5	40620	1	#0	QPSK	22.29	2.78	25.07	33.01	PASS
Band41	5	40620	1	#Mid	QPSK	22.24	2.78	25.02	33.01	PASS
Band41	5	40620	1	#Max	QPSK	22.19	2.78	24.97	33.01	PASS
Band41	5	40620	12	#0	QPSK	21.48	2.78	24.26	33.01	PASS
Band41	5	40620	12	#Mid	QPSK	21.43	2.78	24.21	33.01	PASS
Band41	5	40620	12	#Max	QPSK	21.31	2.78	24.09	33.01	PASS
Band41	5	40620	25	#0	QPSK	21.31	2.78	24.09	33.01	PASS
Band41	5	40620	1	#0	16QAM	21.70	2.78	24.48	33.01	PASS
Band41	5	40620	1	#Mid	16QAM	21.74	2.78	24.52	33.01	PASS
Band41	5	40620	1	#Max	16QAM	21.64	2.78	24.42	33.01	PASS
Band41	5	40620	12	#0	16QAM	20.50	2.78	23.28	33.01	PASS
Band41	5	40620	12	#Mid	16QAM	20.44	2.78	23.22	33.01	PASS
Band41	5	40620	12	#Max	16QAM	20.47	2.78	23.25	33.01	PASS
Band41	5	40620	25	#0	16QAM	20.65	2.78	23.43	33.01	PASS
Band41	5	41565	1	#0	QPSK	22.71	2.78	25.49	33.01	PASS
Band41	5	41565	1	#Mid	QPSK	22.73	2.78	25.51	33.01	PASS
Band41	5	41565	1	#Max	QPSK	22.76	2.78	25.54	33.01	PASS
Band41	5	41565	12	#0	QPSK	21.60	2.78	24.38	33.01	PASS
Band41	5	41565	12	#Mid	QPSK	21.72	2.78	24.50	33.01	PASS
Band41	5	41565	12	#Max	QPSK	21.71	2.78	24.49	33.01	PASS
Band41	5	41565	25	#0	QPSK	21.60	2.78	24.38	33.01	PASS
Band41	5	41565	1	#0	16QAM	21.23	2.78	24.01	33.01	PASS
Band41	5	41565	1	#Mid	16QAM	21.30	2.78	24.08	33.01	PASS
Band41	5	41565	1	#Max	16QAM	21.31	2.78	24.09	33.01	PASS
Band41	5	41565	12	#0	16QAM	20.56	2.78	23.34	33.01	PASS
Band41	5	41565	12	#Mid	16QAM	20.69	2.78	23.47	33.01	PASS
Band41	5	41565	12	#Max	16QAM	20.69	2.78	23.47	33.01	PASS
Band41	5	41565	25	#0	16QAM	20.93	2.78	23.71	33.01	PASS
Band41	10	39700	1	#0	QPSK	22.86	2.78	25.64	33.01	PASS
Band41	10	39700	1	#Mid	QPSK	22.82	2.78	25.60	33.01	PASS
Band41	10	39700	1	#Max	QPSK	22.78	2.78	25.56	33.01	PASS
Band41	10	39700	25	#0	QPSK	21.76	2.78	24.54	33.01	PASS
Band41	10	39700	25	#Mid	QPSK	21.69	2.78	24.47	33.01	PASS
Band41	10	39700	25	#Max	QPSK	21.59	2.78	24.37	33.01	PASS
Band41	10	39700	50	#0	QPSK	21.72	2.78	24.50	33.01	PASS
Band41	10	39700	1	#0	16QAM	22.27	2.78	25.05	33.01	PASS
Band41	10	39700	1	#Mid	16QAM	22.24	2.78	25.02	33.01	PASS
Band41	10	39700	1	#Max	16QAM	22.22	2.78	25.00	33.01	PASS
Band41	10	39700	25	#0	16QAM	20.76	2.78	23.54	33.01	PASS
Band41	10	39700	25	#Mid	16QAM	20.71	2.78	23.49	33.01	PASS
Band41	10	39700	25	#Max	16QAM	20.79	2.78	23.57	33.01	PASS
Band41	10	39700	50	#0	16QAM	20.80	2.78	23.58	33.01	PASS
Band41	10	40620	1	#0	QPSK	22.35	2.78	25.13	33.01	PASS
Band41	10	40620	1	#Mid	QPSK	22.43	2.78	25.21	33.01	PASS
Band41	10	40620	1	#Max	QPSK	22.39	2.78	25.17	33.01	PASS

Band41	10	40620	25	#0	QPSK	21.37	2.78	24.15	33.01	PASS
Band41	10	40620	25	#Mid	QPSK	21.22	2.78	24.00	33.01	PASS
Band41	10	40620	25	#Max	QPSK	21.36	2.78	24.14	33.01	PASS
Band41	10	40620	50	#0	QPSK	21.23	2.78	24.01	33.01	PASS
Band41	10	40620	1	#0	16QAM	20.60	2.78	23.38	33.01	PASS
Band41	10	40620	1	#Mid	16QAM	20.57	2.78	23.35	33.01	PASS
Band41	10	40620	1	#Max	16QAM	20.59	2.78	23.37	33.01	PASS
Band41	10	40620	25	#0	16QAM	20.36	2.78	23.14	33.01	PASS
Band41	10	40620	25	#Mid	16QAM	20.34	2.78	23.12	33.01	PASS
Band41	10	40620	25	#Max	16QAM	20.44	2.78	23.22	33.01	PASS
Band41	10	40620	50	#0	16QAM	20.52	2.78	23.30	33.01	PASS
Band41	10	41540	1	#0	QPSK	22.52	2.78	25.30	33.01	PASS
Band41	10	41540	1	#Mid	QPSK	22.57	2.78	25.35	33.01	PASS
Band41	10	41540	1	#Max	QPSK	22.66	2.78	25.44	33.01	PASS
Band41	10	41540	25	#0	QPSK	21.50	2.78	24.28	33.01	PASS
Band41	10	41540	25	#Mid	QPSK	21.60	2.78	24.38	33.01	PASS
Band41	10	41540	25	#Max	QPSK	21.70	2.78	24.48	33.01	PASS
Band41	10	41540	50	#0	QPSK	21.61	2.78	24.39	33.01	PASS
Band41	10	41540	1	#0	16QAM	21.83	2.78	24.61	33.01	PASS
Band41	10	41540	1	#Mid	16QAM	22.10	2.78	24.88	33.01	PASS
Band41	10	41540	1	#Max	16QAM	21.97	2.78	24.75	33.01	PASS
Band41	10	41540	25	#0	16QAM	20.63	2.78	23.41	33.01	PASS
Band41	10	41540	25	#Mid	16QAM	20.74	2.78	23.52	33.01	PASS
Band41	10	41540	25	#Max	16QAM	20.71	2.78	23.49	33.01	PASS
Band41	10	41540	50	#0	16QAM	20.72	2.78	23.50	33.01	PASS
Band41	15	39725	1	#0	QPSK	22.90	2.78	25.68	33.01	PASS
Band41	15	39725	1	#Mid	QPSK	22.81	2.78	25.59	33.01	PASS
Band41	15	39725	1	#Max	QPSK	22.81	2.78	25.59	33.01	PASS
Band41	15	39725	36	#0	QPSK	21.74	2.78	24.52	33.01	PASS
Band41	15	39725	36	#Mid	QPSK	21.69	2.78	24.47	33.01	PASS
Band41	15	39725	36	#Max	QPSK	21.65	2.78	24.43	33.01	PASS
Band41	15	39725	75	#0	QPSK	21.75	2.78	24.53	33.01	PASS
Band41	15	39725	1	#0	16QAM	22.37	2.78	25.15	33.01	PASS
Band41	15	39725	1	#Mid	16QAM	22.08	2.78	24.86	33.01	PASS
Band41	15	39725	1	#Max	16QAM	22.23	2.78	25.01	33.01	PASS
Band41	15	39725	36	#0	16QAM	20.73	2.78	23.51	33.01	PASS
Band41	15	39725	36	#Mid	16QAM	20.68	2.78	23.46	33.01	PASS
Band41	15	39725	36	#Max	16QAM	20.74	2.78	23.52	33.01	PASS
Band41	15	39725	75	#0	16QAM	20.68	2.78	23.46	33.01	PASS
Band41	15	40620	1	#0	QPSK	22.34	2.78	25.12	33.01	PASS
Band41	15	40620	1	#Mid	QPSK	22.44	2.78	25.22	33.01	PASS
Band41	15	40620	1	#Max	QPSK	22.47	2.78	25.25	33.01	PASS
Band41	15	40620	36	#0	QPSK	21.31	2.78	24.09	33.01	PASS
Band41	15	40620	36	#Mid	QPSK	21.31	2.78	24.09	33.01	PASS
Band41	15	40620	36	#Max	QPSK	21.29	2.78	24.07	33.01	PASS
Band41	15	40620	75	#0	QPSK	21.26	2.78	24.04	33.01	PASS
Band41	15	40620	1	#0	16QAM	20.66	2.78	23.44	33.01	PASS
Band41	15	40620	1	#Mid	16QAM	20.59	2.78	23.37	33.01	PASS
Band41	15	40620	1	#Max	16QAM	20.69	2.78	23.47	33.01	PASS
Band41	15	40620	36	#0	16QAM	20.57	2.78	23.35	33.01	PASS
Band41	15	40620	36	#Mid	16QAM	20.57	2.78	23.35	33.01	PASS
Band41	15	40620	36	#Max	16QAM	20.63	2.78	23.41	33.01	PASS
Band41	15	40620	75	#0	16QAM	20.52	2.78	23.30	33.01	PASS
Band41	15	41515	1	#0	QPSK	22.26	2.78	25.04	33.01	PASS
Band41	15	41515	1	#Mid	QPSK	22.46	2.78	25.24	33.01	PASS
Band41	15	41515	1	#Max	QPSK	22.52	2.78	25.30	33.01	PASS
Band41	15	41515	36	#0	QPSK	21.52	2.78	24.30	33.01	PASS
Band41	15	41515	36	#Mid	QPSK	21.49	2.78	24.27	33.01	PASS
Band41	15	41515	36	#Max	QPSK	21.63	2.78	24.41	33.01	PASS
Band41	15	41515	75	#0	QPSK	21.51	2.78	24.29	33.01	PASS
Band41	15	41515	1	#0	16QAM	21.57	2.78	24.35	33.01	PASS

Band41	15	41515	1	#Mid	16QAM	21.64	2.78	24.42	33.01	PASS
Band41	15	41515	1	#Max	16QAM	21.76	2.78	24.54	33.01	PASS
Band41	15	41515	36	#0	16QAM	20.45	2.78	23.23	33.01	PASS
Band41	15	41515	36	#Mid	16QAM	20.63	2.78	23.41	33.01	PASS
Band41	15	41515	36	#Max	16QAM	20.62	2.78	23.40	33.01	PASS
Band41	15	41515	75	#0	16QAM	20.82	2.78	23.60	33.01	PASS
Band41	20	39750	1	#0	QPSK	22.69	2.78	25.47	33.01	PASS
Band41	20	39750	1	#Mid	QPSK	22.58	2.78	25.36	33.01	PASS
Band41	20	39750	1	#Max	QPSK	22.69	2.78	25.47	33.01	PASS
Band41	20	39750	50	#0	QPSK	21.77	2.78	24.55	33.01	PASS
Band41	20	39750	50	#Mid	QPSK	21.73	2.78	24.51	33.01	PASS
Band41	20	39750	50	#Max	QPSK	21.65	2.78	24.43	33.01	PASS
Band41	20	39750	100	#0	QPSK	21.55	2.78	24.33	33.01	PASS
Band41	20	39750	1	#0	16QAM	21.51	2.78	24.29	33.01	PASS
Band41	20	39750	1	#Mid	16QAM	21.37	2.78	24.15	33.01	PASS
Band41	20	39750	1	#Max	16QAM	21.37	2.78	24.15	33.01	PASS
Band41	20	39750	50	#0	16QAM	20.87	2.78	23.65	33.01	PASS
Band41	20	39750	50	#Mid	16QAM	20.89	2.78	23.67	33.01	PASS
Band41	20	39750	50	#Max	16QAM	20.92	2.78	23.70	33.01	PASS
Band41	20	39750	100	#0	16QAM	20.65	2.78	23.43	33.01	PASS
Band41	20	40620	1	#0	QPSK	22.44	2.78	25.22	33.01	PASS
Band41	20	40620	1	#Mid	QPSK	22.49	2.78	25.27	33.01	PASS
Band41	20	40620	1	#Max	QPSK	22.57	2.78	25.35	33.01	PASS
Band41	20	40620	50	#0	QPSK	21.42	2.78	24.20	33.01	PASS
Band41	20	40620	50	#Mid	QPSK	21.29	2.78	24.07	33.01	PASS
Band41	20	40620	50	#Max	QPSK	21.40	2.78	24.18	33.01	PASS
Band41	20	40620	100	#0	QPSK	21.30	2.78	24.08	33.01	PASS
Band41	20	40620	1	#0	16QAM	21.16	2.78	23.94	33.01	PASS
Band41	20	40620	1	#Mid	16QAM	21.05	2.78	23.83	33.01	PASS
Band41	20	40620	1	#Max	16QAM	21.11	2.78	23.89	33.01	PASS
Band41	20	40620	50	#0	16QAM	20.47	2.78	23.25	33.01	PASS
Band41	20	40620	50	#Mid	16QAM	20.46	2.78	23.24	33.01	PASS
Band41	20	40620	50	#Max	16QAM	20.49	2.78	23.27	33.01	PASS
Band41	20	40620	100	#0	16QAM	20.58	2.78	23.36	33.01	PASS
Band41	20	41490	1	#0	QPSK	22.64	2.78	25.42	33.01	PASS
Band41	20	41490	1	#Mid	QPSK	22.65	2.78	25.43	33.01	PASS
Band41	20	41490	1	#Max	QPSK	22.87	2.78	25.65	33.01	PASS
Band41	20	41490	50	#0	QPSK	21.57	2.78	24.35	33.01	PASS
Band41	20	41490	50	#Mid	QPSK	21.52	2.78	24.30	33.01	PASS
Band41	20	41490	50	#Max	QPSK	21.71	2.78	24.49	33.01	PASS
Band41	20	41490	100	#0	QPSK	21.56	2.78	24.34	33.01	PASS
Band41	20	41490	1	#0	16QAM	21.34	2.78	24.12	33.01	PASS
Band41	20	41490	1	#Mid	16QAM	21.09	2.78	23.87	33.01	PASS
Band41	20	41490	1	#Max	16QAM	21.15	2.78	23.93	33.01	PASS
Band41	20	41490	50	#0	16QAM	20.75	2.78	23.53	33.01	PASS
Band41	20	41490	50	#Mid	16QAM	20.86	2.78	23.64	33.01	PASS
Band41	20	41490	50	#Max	16QAM	20.92	2.78	23.70	33.01	PASS
Band41	20	41490	100	#0	16QAM	20.74	2.78	23.52	33.01	PASS

Frequency stability

LTE Band 5 (QPSK) / 836.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	3.97	0.005	2.5ppm	PASS
40		4.14	0.005		
30		3.83	0.005		
20		6.17	0.007		
10		4.17	0.005		
0		-4.11	-0.005		
-10		3.69	0.004		
-20		3.78	0.005		
-30		3.70	0.004		
20	Maximum Voltage	5.45	0.007		
20	BEP	-2.01	-0.002		

LTE Band 5 (16QAM) / 836.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	3.78	0.005	2.5ppm	PASS
40		4.27	0.005		
30		-4.27	-0.005		
20		6.47	0.008		
10		-4.22	-0.005		
0		4.27	0.005		
-10		-4.26	-0.005		
-20		-4.03	-0.005		
-30		-3.85	-0.005		
20	Maximum Voltage	-2.10	-0.003		
20	BEP	6.03	0.007		

LTE Band 7 (QPSK) / 2535MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	17.49	0.007	2.5ppm	PASS
40		17.79	0.007		
30		-17.96	-0.007		
20		-37.12	-0.015		
10		-17.60	-0.007		
0		-17.70	-0.007		
-10		17.56	0.007		
-20		17.94	0.007		
-30		17.88	0.007		
20	Maximum Voltage	8.77	0.003		
20	BEP	8.82	0.003		

LTE Band 7 (16QAM) / 2535MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	7.58	0.003	2.5ppm	PASS
40		-7.26	-0.003		
30		7.08	0.003		
20		-16.34	-0.006		
10		7.56	0.003		
0		7.35	0.003		
-10		-7.09	-0.003		
-20		7.17	0.003		
-30		7.11	0.003		
20	Maximum Voltage	3.60	0.001		
20	BEP	3.53	0.001		

LTE Band 41 (QPSK) / 2593MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	-4.02	-0.002	2.5ppm	PASS
40		4.18	0.002		
30		-3.76	-0.001		
20		6.41	0.002		
10		4.27	0.002		
0		3.97	0.002		
-10		-4.31	-0.002		
-20		3.73	0.001		
-30		-3.87	-0.001		
20	Maximum Voltage	-1.95	-0.001		
20	BEP	6.45	0.002		

LTE Band 41 (16QAM) / 2593MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	1.05	0.000	2.5ppm	PASS
40		0.63	0.000		
30		0.74	0.000		
20		-3.42	-0.001		
10		-0.90	0.000		
0		-0.74	0.000		
-10		-0.61	0.000		
-20		0.60	0.000		
-30		-0.77	0.000		
20	Maximum Voltage	-1.75	-0.001		
20	BEP	0.46	0.000		

Peak-to-Average Ratio

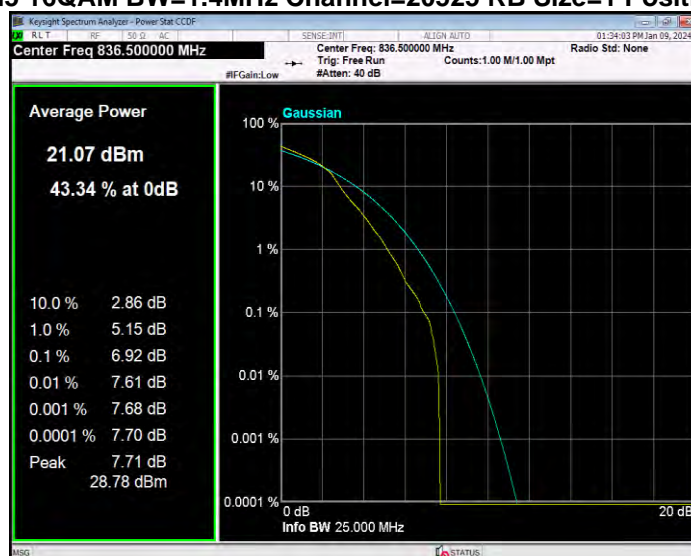
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band5	1.4	20407	1	#0	QPSK	5.66	13	PASS
Band5	1.4	20407	1	#0	16QAM	6.46	13	PASS
Band5	1.4	20525	1	#0	QPSK	6.03	13	PASS
Band5	1.4	20525	1	#0	16QAM	6.92	13	PASS
Band5	1.4	20643	1	#0	QPSK	5.07	13	PASS
Band5	1.4	20643	1	#0	16QAM	5.90	13	PASS
Band5	3	20415	1	#0	QPSK	5.73	13	PASS
Band5	3	20415	1	#0	16QAM	6.56	13	PASS
Band5	3	20525	1	#0	QPSK	6.16	13	PASS
Band5	3	20525	1	#0	16QAM	6.66	13	PASS
Band5	3	20635	1	#0	QPSK	5.24	13	PASS
Band5	3	20635	1	#0	16QAM	6.04	13	PASS
Band5	5	20425	1	#0	QPSK	6.08	13	PASS
Band5	5	20425	1	#0	16QAM	6.34	13	PASS
Band5	5	20525	1	#0	QPSK	5.61	13	PASS
Band5	5	20525	1	#0	16QAM	6.16	13	PASS
Band5	5	20625	1	#0	QPSK	5.50	13	PASS
Band5	5	20625	1	#0	16QAM	6.19	13	PASS
Band5	10	20450	1	#0	QPSK	5.79	13	PASS
Band5	10	20450	1	#0	16QAM	6.64	13	PASS
Band5	10	20525	1	#0	QPSK	5.59	13	PASS
Band5	10	20525	1	#0	16QAM	6.49	13	PASS
Band5	10	20600	1	#0	QPSK	5.45	13	PASS
Band5	10	20600	1	#0	16QAM	6.03	13	PASS
Band7	5	20775	1	#0	QPSK	4.89	13	PASS
Band7	5	20775	1	#0	16QAM	5.66	13	PASS
Band7	5	21100	1	#0	QPSK	4.85	13	PASS
Band7	5	21100	1	#0	16QAM	5.46	13	PASS
Band7	5	21425	1	#0	QPSK	4.80	13	PASS
Band7	5	21425	1	#0	16QAM	5.48	13	PASS
Band7	10	20800	1	#0	QPSK	4.81	13	PASS
Band7	10	20800	1	#0	16QAM	5.74	13	PASS
Band7	10	21100	1	#0	QPSK	4.73	13	PASS
Band7	10	21100	1	#0	16QAM	5.72	13	PASS
Band7	10	21400	1	#0	QPSK	4.60	13	PASS
Band7	10	21400	1	#0	16QAM	5.45	13	PASS
Band7	15	20825	1	#0	QPSK	4.80	13	PASS
Band7	15	20825	1	#0	16QAM	5.64	13	PASS
Band7	15	21100	1	#0	QPSK	4.79	13	PASS
Band7	15	21100	1	#0	16QAM	5.57	13	PASS
Band7	15	21375	1	#0	QPSK	5.01	13	PASS
Band7	15	21375	1	#0	16QAM	5.62	13	PASS
Band7	20	20850	1	#0	QPSK	4.69	13	PASS
Band7	20	20850	1	#0	16QAM	5.45	13	PASS
Band7	20	21100	1	#0	QPSK	4.73	13	PASS
Band7	20	21100	1	#0	16QAM	5.66	13	PASS
Band7	20	21350	1	#0	QPSK	5.18	13	PASS
Band7	20	21350	1	#0	16QAM	5.83	13	PASS
Band41	5	39675	1	#0	QPSK	11.15	13	PASS
Band41	5	39675	1	#0	16QAM	9.35	13	PASS
Band41	5	40620	1	#0	QPSK	8.06	13	PASS
Band41	5	40620	1	#0	16QAM	8.29	13	PASS
Band41	5	41565	1	#0	QPSK	7.91	13	PASS
Band41	5	41565	1	#0	16QAM	10.68	13	PASS
Band41	10	39700	1	#0	QPSK	9.73	13	PASS
Band41	10	39700	1	#0	16QAM	9.70	13	PASS
Band41	10	40620	1	#0	QPSK	8.23	13	PASS
Band41	10	40620	1	#0	16QAM	9.26	13	PASS

Band41	10	41540	1	#0	QPSK	8.20	13	PASS
Band41	10	41540	1	#0	16QAM	9.05	13	PASS
Band41	15	39725	1	#0	QPSK	9.67	13	PASS
Band41	15	39725	1	#0	16QAM	11.30	13	PASS
Band41	15	40620	1	#0	QPSK	7.78	13	PASS
Band41	15	40620	1	#0	16QAM	10.39	13	PASS
Band41	15	41515	1	#0	QPSK	9.36	13	PASS
Band41	15	41515	1	#0	16QAM	9.65	13	PASS
Band41	20	39750	1	#0	QPSK	7.71	13	PASS
Band41	20	39750	1	#0	16QAM	9.47	13	PASS
Band41	20	40620	1	#0	QPSK	8.84	13	PASS
Band41	20	40620	1	#0	16QAM	9.24	13	PASS
Band41	20	41490	1	#0	QPSK	8.84	13	PASS
Band41	20	41490	1	#0	16QAM	9.23	13	PASS

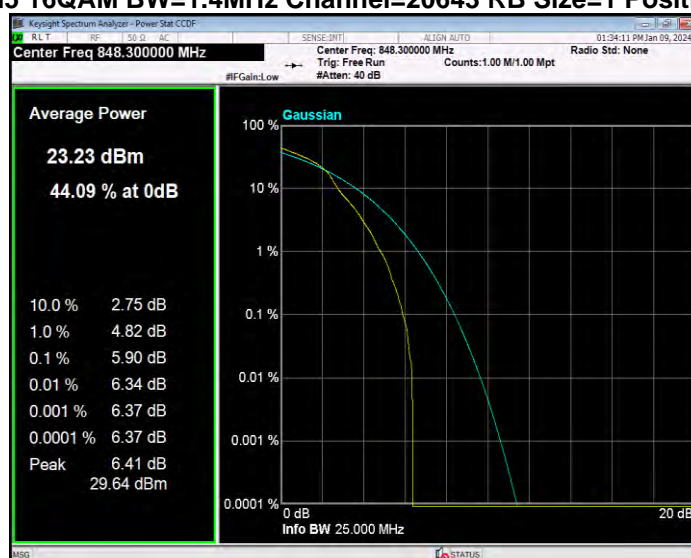
Band5 16QAM BW=1.4MHz Channel=20407 RB Size=1 Position=#0



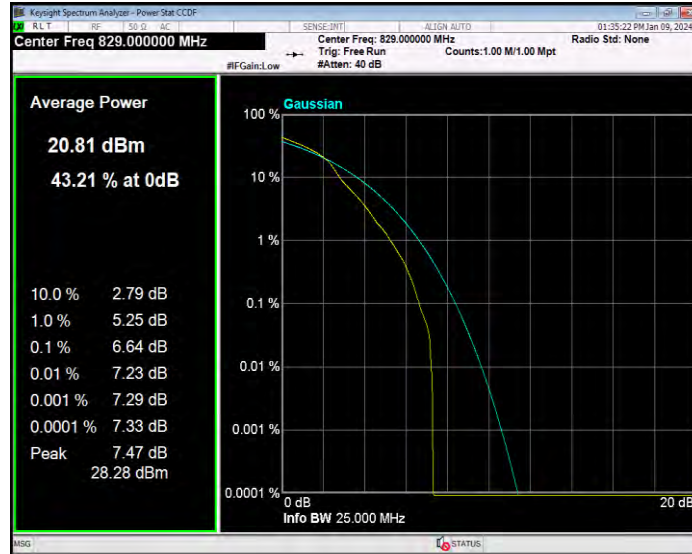
Band5 16QAM BW=1.4MHz Channel=20525 RB Size=1 Position=#0



Band5 16QAM BW=1.4MHz Channel=20643 RB Size=1 Position=#0



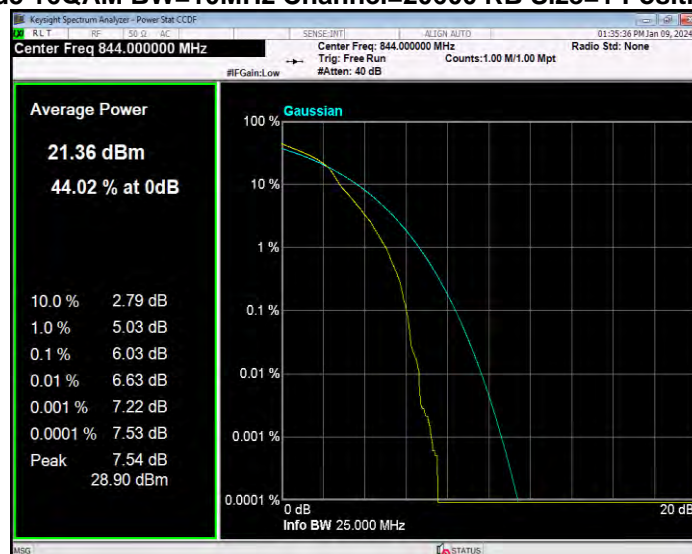
Band5 16QAM BW=10MHz Channel=20450 RB Size=1 Position=#0



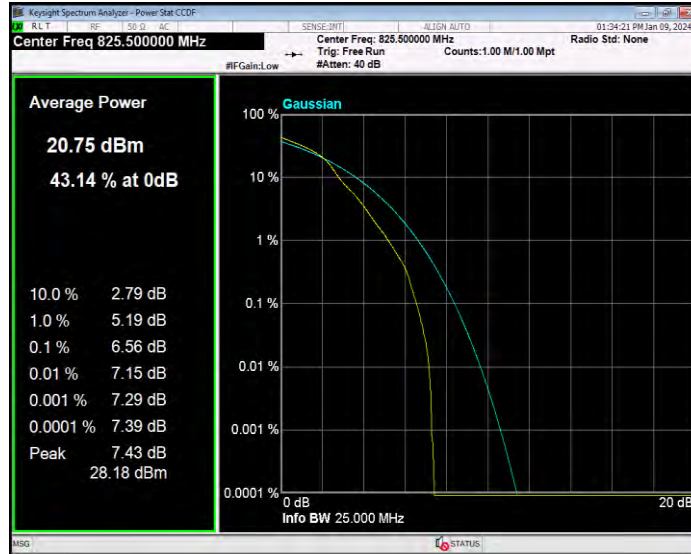
Band5 16QAM BW=10MHz Channel=20525 RB Size=1 Position=#0



Band5 16QAM BW=10MHz Channel=20600 RB Size=1 Position=#0



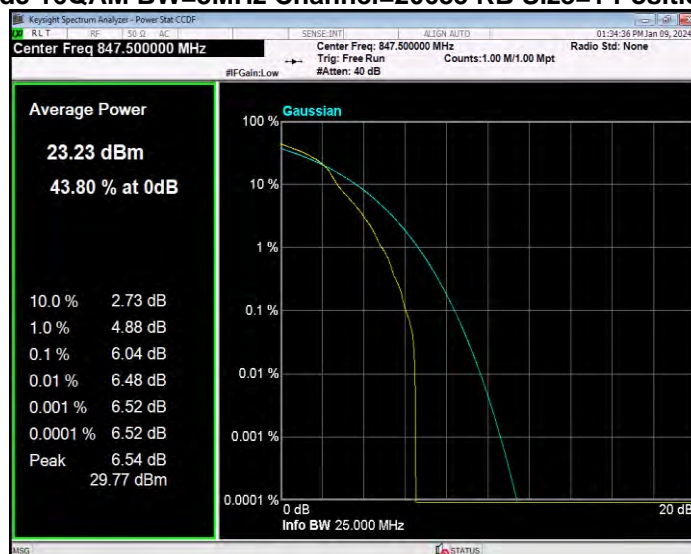
Band5 16QAM BW=3MHz Channel=20415 RB Size=1 Position=#0



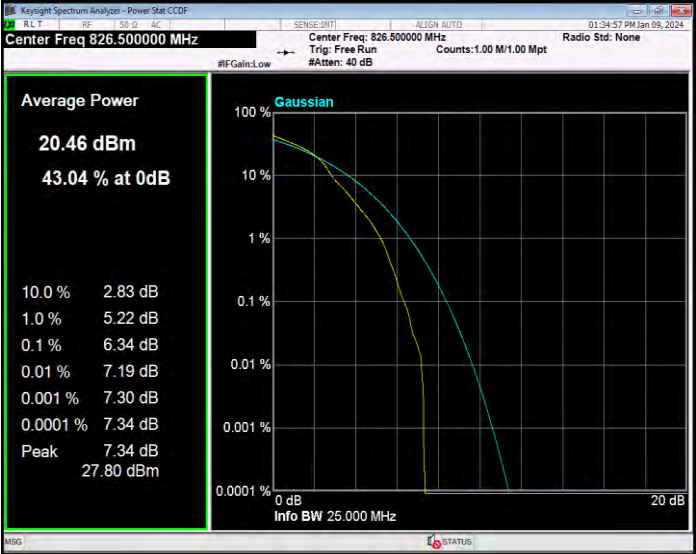
Band5 16QAM BW=3MHz Channel=20525 RB Size=1 Position=#0



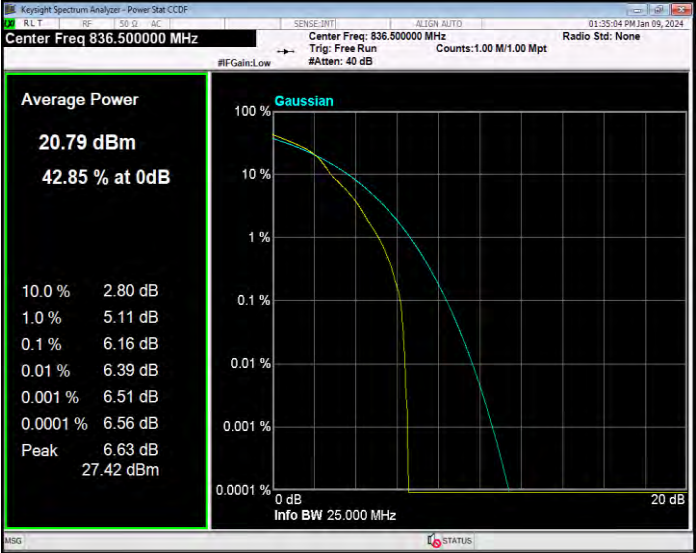
Band5 16QAM BW=3MHz Channel=20635 RB Size=1 Position=#0



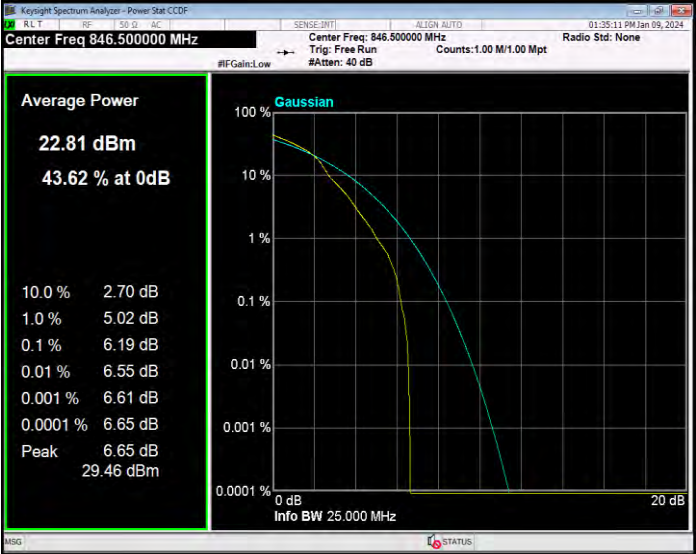
Band5 16QAM BW=5MHz Channel=20425 RB Size=1 Position=#0



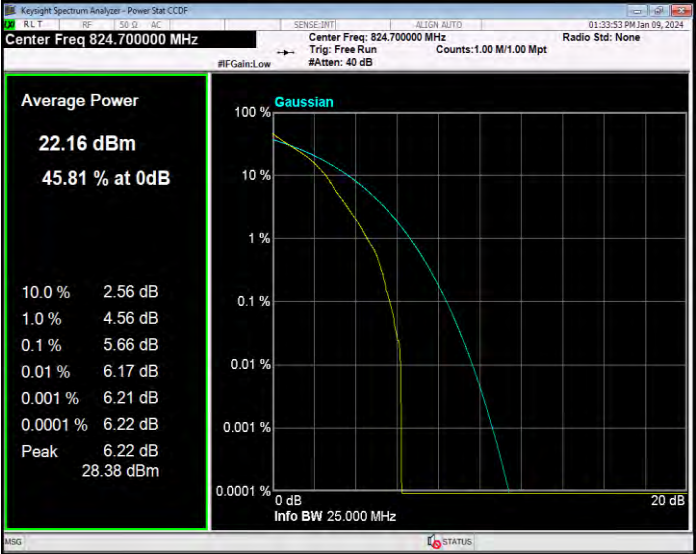
Band5 16QAM BW=5MHz Channel=20525 RB Size=1 Position=#0



Band5 16QAM BW=5MHz Channel=20625 RB Size=1 Position=#0



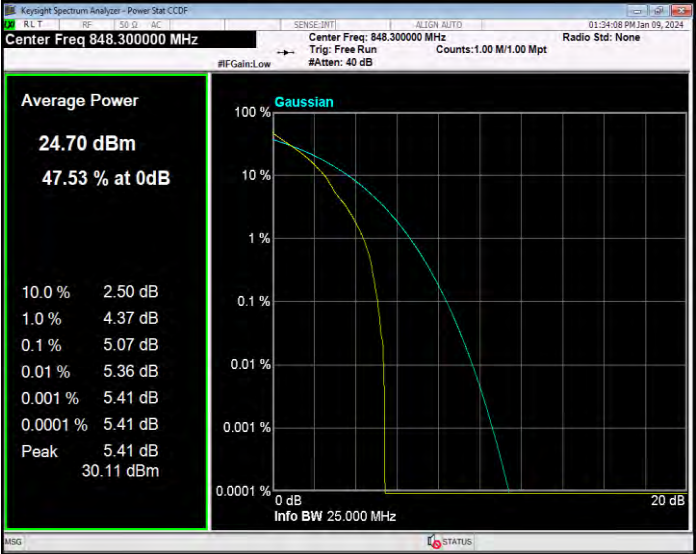
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=1 Position=#0



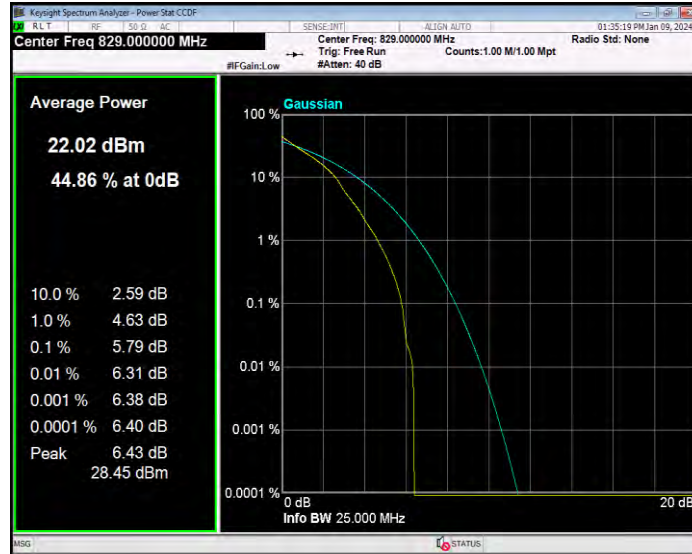
Band5 QPSK BW=1.4MHz Channel=20525 RB Size=1 Position=#0



Band5 QPSK BW=1.4MHz Channel=20643 RB Size=1 Position=#0



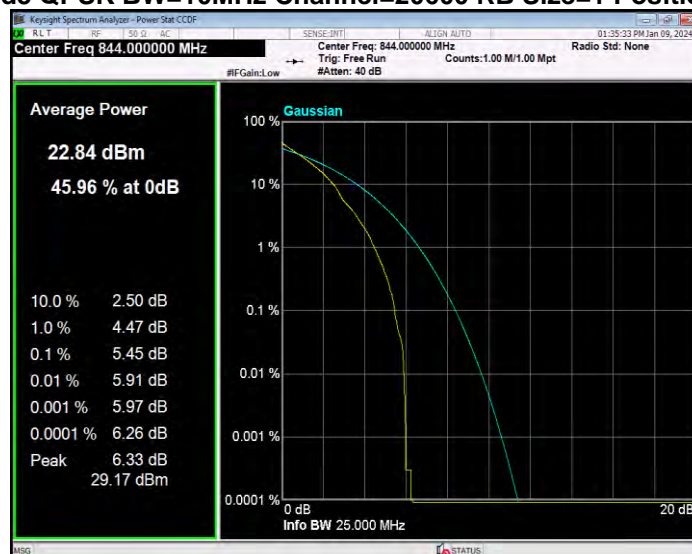
Band5 QPSK BW=10MHz Channel=20450 RB Size=1 Position=#0



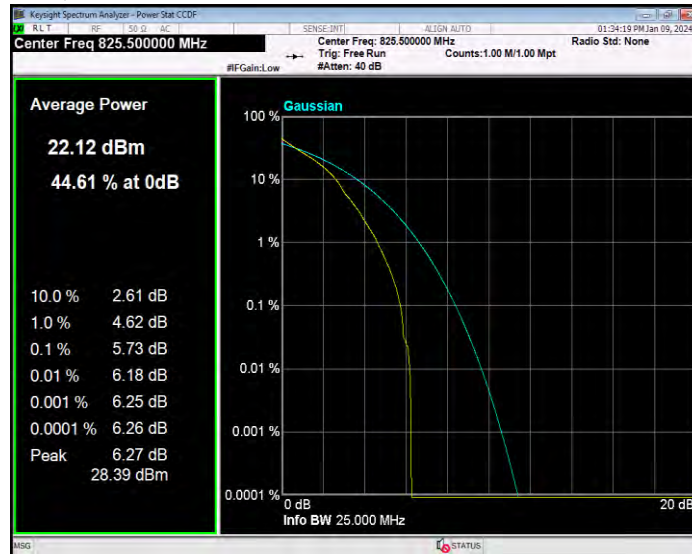
Band5 QPSK BW=10MHz Channel=20525 RB Size=1 Position=#0



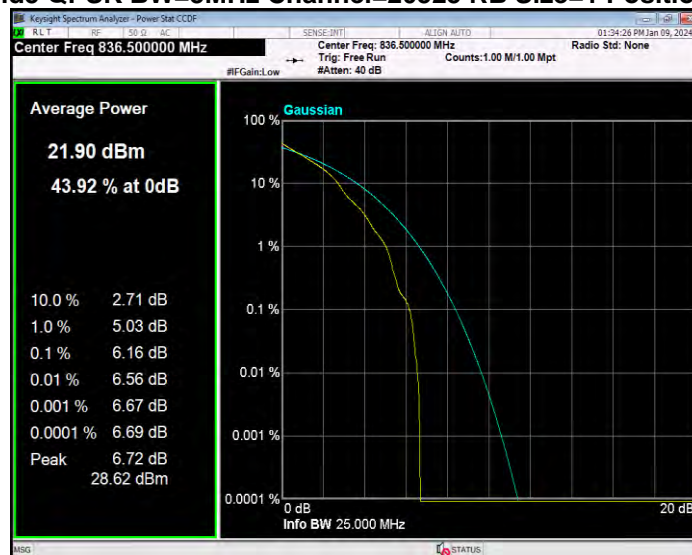
Band5 QPSK BW=10MHz Channel=20600 RB Size=1 Position=#0



Band5 QPSK BW=3MHz Channel=20415 RB Size=1 Position=#0



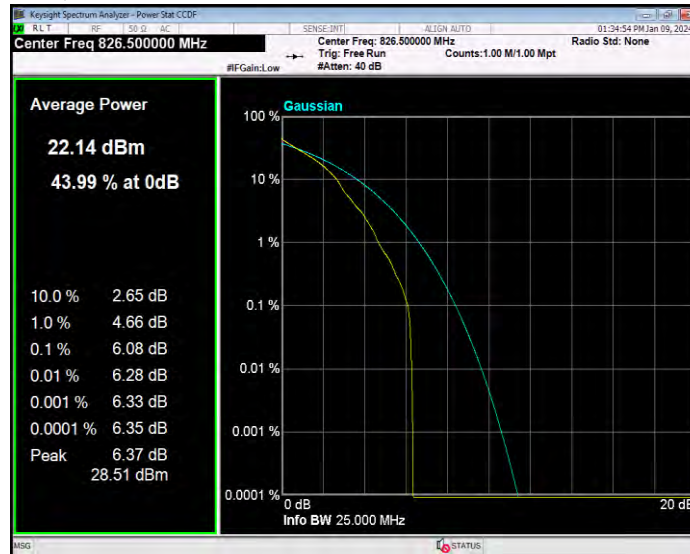
Band5 QPSK BW=3MHz Channel=20525 RB Size=1 Position=#0



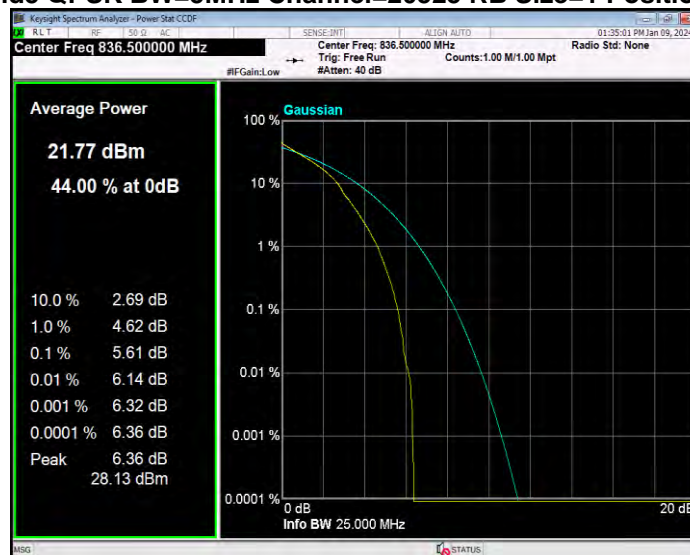
Band5 QPSK BW=3MHz Channel=20635 RB Size=1 Position=#0



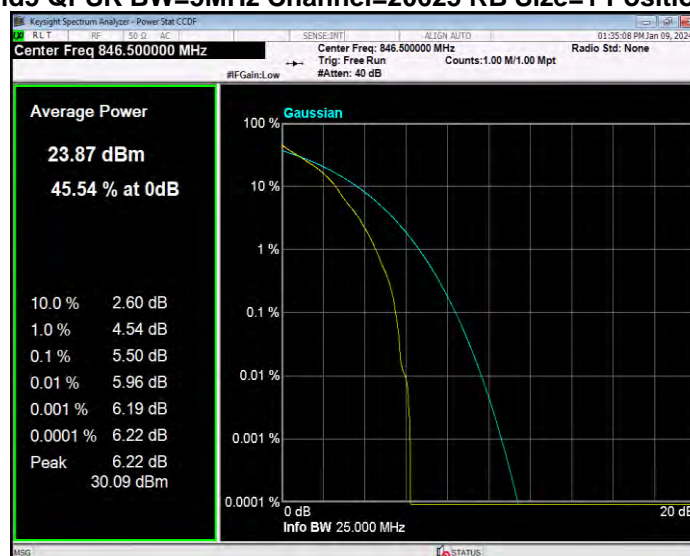
Band5 QPSK BW=5MHz Channel=20425 RB Size=1 Position=#0



Band5 QPSK BW=5MHz Channel=20525 RB Size=1 Position=#0



Band5 QPSK BW=5MHz Channel=20625 RB Size=1 Position=#0



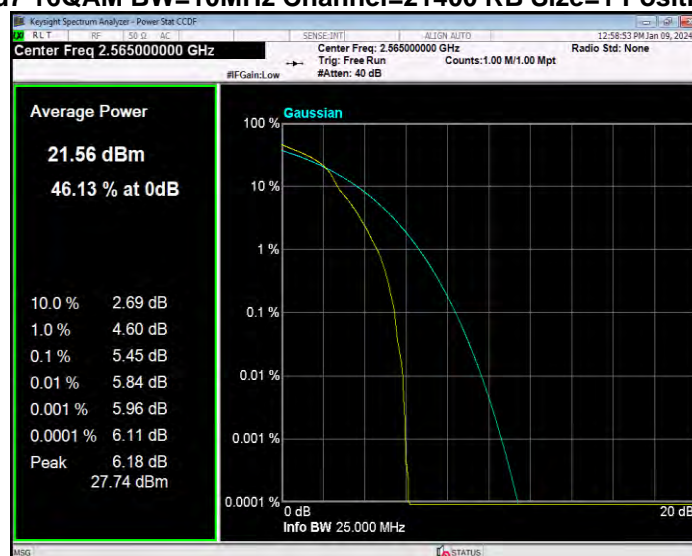
Band7 16QAM BW=10MHz Channel=20800 RB Size=1 Position=#0



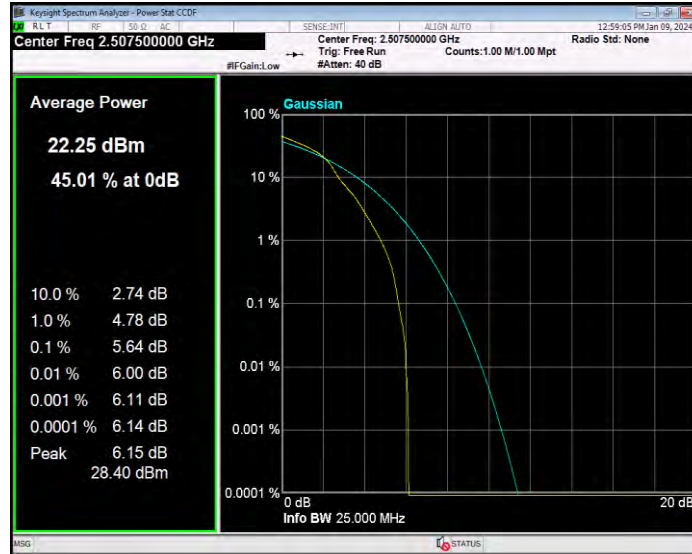
Band7 16QAM BW=10MHz Channel=21100 RB Size=1 Position=#0



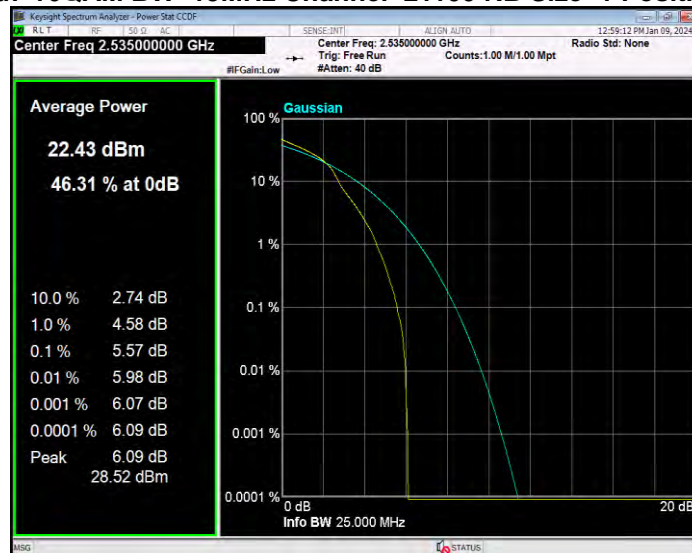
Band7 16QAM BW=10MHz Channel=21400 RB Size=1 Position=#0



Band7 16QAM BW=15MHz Channel=20825 RB Size=1 Position=#0



Band7 16QAM BW=15MHz Channel=21100 RB Size=1 Position=#0



Band7 16QAM BW=15MHz Channel=21375 RB Size=1 Position=#0

