

FCC Test Report (Part 27)

Report No.: RF180928C18-8

FCC ID: Q3N-RS51

Test Model: RS51

Received Date: Sep. 28, 2018

Test Date: Nov. 15 ~ Dec. 12, 2018

Issued Date: Dec. 13, 2018

Applicant: CIPHERLAB CO., LTD

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF180928C18-8	Original release	Dec. 13, 2018

1 Certificate of Conformity

Product: Mobile Computer

Brand: CIPHERLAB

Test Model: RS51

Sample Status: Engineering sample

Applicant: CIPHERLAB CO., LTD

Test Date: Nov. 23 ~ Dec. 12, 2018

Standards: FCC Part 27, Subpart C, L, H, F, M

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Pettie Chen, **Date:** Dec. 13, 2018
Pettie Chen / Senior Specialist

Approved by : Bruce Chen, **Date:** Dec. 13, 2018
Bruce Chen / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2									
FCC Clause							Test Item	Result	Remarks
WCDMA Band 4 / LTE Band 4	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 17	LTE Band 38	LTE Band 41			
2.1046 27.50 (d)(4)	2.1046 27.50(h)	2.1046 27.50 (b)(10)	2.1046 27.50 (b)(10)	2.1046 27.50 (c)(10)	2.1046 27.50(h)	2.1046 27.50 (h)(2)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
----	----	----	----	----	----	----	Peak To Average Ratio	Pass	Meet the requirement of limit.
2.1055 27.54	2.1055 27.54	2.1055 27.54	2.1055 27.54	2.1055 27.54	2.1055 27.54	2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Meet the requirement of limit.
2.1049 27.53 (m)(6)	2.1049 27.53 (h)	2.1049 27.53 (m)(6)	2.1049 27.53 (m)(6)	2.1049 27.53 (m)(6)	2.1049 27.53 (h)	2.1049 27.53 (m)(6)	Emission Bandwidth	Pass	Meet the requirement of limit.
2.1051 27.53(h)	2.1051 27.53(m)	2.1051 27.53(c)	2.1051 27.53(c)	2.1051 27.53(g)	2.1051 27.53(m)	2.1051 27.53(m)(4)(6)	Band Edge Measurements	Pass	Meet the requirement of limit.
2.1051 27.53(h)	2.1051 27.53(m)	2.1051 27.53(c)	2.1051 27.53(c)	2.1051 27.53(g)	2.1051 27.53(m)	2.1051 27.53(m)(4)(6)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1051 27.53(h)	2.1053 27.53(m)	2.1051 27.53(c)	2.1051 27.53(c)	2.1051 27.53(g)	2.1053 27.53(m)	2.1053 27.53(m)(4)(6)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -7.2dB at 1559.00, 1564.00MHz.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.63 dB
	200MHz ~1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 29, 2018	May 28, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 25, 2018	Sep. 24, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Nov. 27, 2017 Nov. 21, 2018	Nov. 28, 2018 Nov. 20, 2019
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 25, 2018	Nov. 24, 2019
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 25, 2018	Nov. 24, 2019
Loop Antenna EMCI	EM-6879	269	Sep. 07, 2018	Sep. 06, 2019
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Aug. 08, 2018	Aug. 07, 2019
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jul. 02, 2018	Jul. 01, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Aug. 08, 2018	Aug. 07, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Aug. 08, 2018	Aug. 07, 2019
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 04, 2018	Jun. 03, 2019
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Radio Communication Analyzer	MT8821C	6261786083	Dec. 21, 2017	Dec. 20, 2018

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 4.
3. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
4. The IC Site Registration No. is 7450F-4.

3 General Information

3.1 General Description of EUT

Product	Mobile Computer		
Brand	CIPHERLAB		
Test Model	RS51		
Status of EUT	Engineering sample		
Power Supply Rating	5Vdc (adapter) 3.75Vdc (battery)		
Modulation Type	WCDMA: BPSK, QPSK HSDPA: BPSK HSUPA: QPSK LTE: QPSK, 16QAM		
Operating Frequency	WCDMA Band 4		1712.4MHz ~ 1752.6MHz
	LTE Band 4	Channel Bandwidth 1.4MHz	1710.7MHz ~ 1754.3MHz
		Channel Bandwidth 3MHz	1711.5MHz ~ 1753.5MHz
		Channel Bandwidth 5MHz	1712.5MHz ~ 1752.5MHz
		Channel Bandwidth 10MHz	1715.0MHz ~ 1750.0MHz
		Channel Bandwidth 15MHz	1717.5MHz ~ 1747.5MHz
		Channel Bandwidth 20MHz	1720.0MHz ~ 1745.0MHz
	LTE Band 7	Channel Bandwidth 5MHz	2502.5MHz ~ 2567.5MHz
		Channel Bandwidth 10MHz	2505.0MHz ~ 2565.0MHz
		Channel Bandwidth 15MHz	2507.5MHz ~ 2562.5MHz
		Channel Bandwidth 20MHz	2510.0MHz ~ 2560.0MHz
	LTE Band 12	Channel Bandwidth 1.4MHz	699.7MHz ~ 715.3MHz
		Channel Bandwidth 3MHz	700.5MHz ~ 714.5MHz
		Channel Bandwidth 5MHz	701.5MHz ~ 713.5MHz
		Channel Bandwidth 10MHz	704.0MHz ~ 711.0MHz
	LTE Band 13	Channel Bandwidth 5MHz	779.5MHz ~ 784.5MHz
		Channel Bandwidth 10MHz	782.0MHz
	LTE Band 17	Channel Bandwidth 5MHz	706.5MHz ~ 713.5MHz
		Channel Bandwidth 10MHz	709.0MHz ~ 711.0MHz
	LTE Band 38	Channel Bandwidth 5MHz	2572.5MHz ~ 2617.5MHz
		Channel Bandwidth 10MHz	2575.0MHz ~ 2615.0MHz
		Channel Bandwidth 15MHz	2577.5MHz ~ 2615.0MHz
		Channel Bandwidth 20MHz	2580.0MHz ~ 2610.0MHz
	LTE Band 41	Channel Bandwidth 5MHz	2547.5MHz ~ 2652.5MHz
		Channel Bandwidth 10MHz	2550.0MHz ~ 2650.0MHz
		Channel Bandwidth 15MHz	2552.5MHz ~ 2647.5MHz
		Channel Bandwidth 20MHz	2555.0MHz ~ 2645.0MHz

Max. EIRP Power	WCDMA Band 4		354.813mW (25.5dBm)	
			QPSK	16QAM
	LTE Band 4	Channel Bandwidth 1.4MHz	337.287mW (25.28dBm)	257.040mW (24.10dBm)
		Channel Bandwidth 3MHz	363.078mW (25.60dBm)	251.189mW (24.00dBm)
		Channel Bandwidth 5MHz	350.752mW (25.45dBm)	263.027mW (24.20dBm)
		Channel Bandwidth 10MHz	349.140mW (25.43dBm)	263.027mW (24.20dBm)
		Channel Bandwidth 15MHz	341.193mW (25.33dBm)	251.189mW (24.00dBm)
		Channel Bandwidth 20MHz	351.560mW (25.46dBm)	251.189mW (24.00dBm)
	LTE Band 7	Channel Bandwidth 5MHz	254.097mW (24.05dBm)	165.959mW (22.20dBm)
		Channel Bandwidth 10MHz	234.423mW (23.70dBm)	173.780mW (22.40dBm)
		Channel Bandwidth 15MHz	227.510mW (23.57dBm)	169.824mW (22.30dBm)
		Channel Bandwidth 20MHz	217.270mW (23.37dBm)	186.209mW (22.70dBm)
	LTE Band 38	Channel Bandwidth 5MHz	260.016mW (24.15dBm)	245.471mW (23.90dBm)
		Channel Bandwidth 10MHz	260.016mW (24.15dBm)	251.189mW (24.00dBm)
		Channel Bandwidth 15MHz	275.423mW (24.40dBm)	234.423mW (23.70dBm)
		Channel Bandwidth 20MHz	301.995mW (24.80dBm)	281.838mW (24.50dBm)
	LTE Band 41	Channel Bandwidth 5MHz	269.153mW (24.30dBm)	218.776mW (23.40dBm)
		Channel Bandwidth 10MHz	223.872mW (23.50dBm)	204.174mW (23.10dBm)
		Channel Bandwidth 15MHz	251.189mW (24.00dBm)	208.930mW (23.20dBm)
		Channel Bandwidth 20MHz	251.189mW (24.00dBm)	218.776mW (23.40dBm)
Max. ERP Power	LTE Band 12	Channel Bandwidth 1.4MHz	154.882mW (21.90dBm)	147.911mW (21.70dBm)
		Channel Bandwidth 3MHz	158.489mW (22.00dBm)	151.356mW (21.80dBm)
		Channel Bandwidth 5MHz	158.489mW (22.00dBm)	144.544mW (21.60dBm)
		Channel Bandwidth 10MHz	151.356mW (21.80dBm)	131.826mW (21.20dBm)
	LTE Band 13	Channel Bandwidth 5MHz	575.440mW (27.60dBm)	426.580mW (26.30dBm)
		Channel Bandwidth 10MHz	512.861mW (27.10dBm)	467.735mW (26.70dBm)
	LTE Band 17	Channel Bandwidth 5MHz	239.883mW (23.80dBm)	213.796mW (23.30dBm)
		Channel Bandwidth 10MHz	234.423mW (23.70dBm)	223.872mW (23.50dBm)

Emission Designator	WCDMA Band 4		4M15F9W	
			QPSK	16QAM
	LTE Band 4	Channel Bandwidth 1.4MHz	1M09G7D	1M09W7D
		Channel Bandwidth 3MHz	2M70G7D	2M69W7D
		Channel Bandwidth 5MHz	4M48G7D	4M48W7D
		Channel Bandwidth 10MHz	8M96G7D	8M95W7D
		Channel Bandwidth 15MHz	13M4G7D	13M4W7D
		Channel Bandwidth 20MHz	17M9G7D	17M9W7D
	LTE Band 7	Channel Bandwidth 5MHz	4M48G7D	4M48W7D
		Channel Bandwidth 10MHz	8M95G7D	8M95W7D
		Channel Bandwidth 15MHz	13M4G7D	13M4W7D
		Channel Bandwidth 20MHz	17M8G7D	17M9W7D
	LTE Band 12	Channel Bandwidth 1.4MHz	1M08G7D	1M09W7D
		Channel Bandwidth 3MHz	2M70G7D	2M69W7D
		Channel Bandwidth 5MHz	4M48G7D	4M48W7D
		Channel Bandwidth 10MHz	8M96G7D	8M97W7D
	LTE Band 13	Channel Bandwidth 5MHz	4M48G7D	4M48W7D
		Channel Bandwidth 10MHz	8M95G7D	8M95W7D
	LTE Band 17	Channel Bandwidth 5MHz	4M48G7D	4M48W7D
		Channel Bandwidth 10MHz	8M96G7D	8M97W7D
	LTE Band 38	Channel Bandwidth 5MHz	4M48G7D	4M48W7D
		Channel Bandwidth 10MHz	8M94G7D	8M95W7D
		Channel Bandwidth 15MHz	13M4G7D	13M4W7D
		Channel Bandwidth 20MHz	17M9G7D	17M9W7D
	LTE Band 41	Channel Bandwidth 5MHz	4M48G7D	4M48W7D
		Channel Bandwidth 10MHz	8M94G7D	8M96W7D
		Channel Bandwidth 15MHz	13M4G7D	13M4W7D
		Channel Bandwidth 20MHz	17M9G7D	17M8W7D
Antenna Connector	Refer to Note			
Antenna Connector	Refer to Note			
Accessory Device	Refer to Note			
Data Cable Supplied	0.08m module cable			

Note:

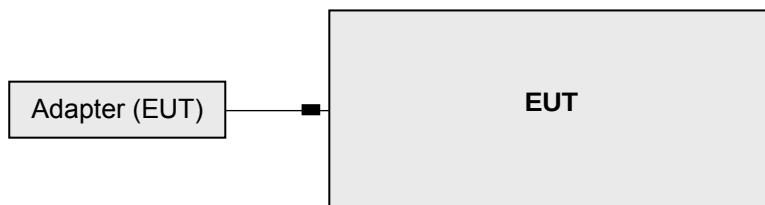
1. The EUT uses following antennas.

Antenna Type	Antenna Connector	Antenna Gain (dBi)		
		Ant.	Main (TX/RX)	Diversity (RX)
PIFA	Spring	WCDMA Band 4	2.9	-1.01
		LTE Band 4	2.9	-0.15
		LTE Band 7	2.53	-6.23
		LTE Band 12	-3.27	-6.23
		LTE Band 13	0.09	-5.89
		LTE Band 17	-3.27	-6.23
		LTE Band 38	2.77	1.74
		LTE Band 41	2.95	1.74

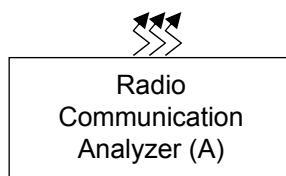
2. The EUT uses following accessory devices.

Component	Vendor	Model	Specification
Adapter	Sunny COMPUTER TECHNOLOGY CO.,LTD.	SYS1561-1005	I/P: 100-240Vac, 1.0A MAX, 50-60Hz O/P: +5Vdc, 2A, 10W MAX.
Battery	CIPHERLAB	BA-0115A3	Rating: 3.75Vdc, 5300mAh, 19.88Wh

3.2 Configuration of System under Test



Remote site



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Radio Communication Analyzer	Anritsu	MT8860C	1702001	NA	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane (For WCDMA Band 4, 7, 38, 41) and Z-plane (LTE Band 12, 13, 17). Following channel(s) was (were) selected for the final test as listed below:

WCDMA Band 4 Mode

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA
-	Modulation Characteristics	1312 to 1513	1413(1732.6MHz)	WCDMA, HSDPA, HSUPA
-	Frequency Stability	1312 to 1513	1312(1712.4MHz), 1513(1752.6MHz)	WCDMA
-	Occupied Bandwidth	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Band Edge	1312 to 1513	1312(1712.4MHz), 1513(1752.6MHz)	WCDMA
-	Peak To Average Ratio	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Conducted Emission	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA, HSDPA, HSUPA
-	Radiated Emission Below 1GHz	1312 to 1513	1312(1712.4MHz)	WCDMA
-	Radiated Emission Above 1GHz	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA

LTE Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	20050 to 20300	20175(1732.5MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Frequency Stability	19957 to 20393	19957(1710.7MHz), 20393(1754.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20385(1753.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20375(1752.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20350(1750.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20325(1747.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20300(1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK / 16QAM	6 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK / 16QAM	15 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK / 16QAM	75 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Band Edge	19957 to 20393	19957(1710.7MHz), 20393(1754.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset 1 RB / 5 RB Offset 6 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20385(1753.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20375(1752.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20350(1750.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20325(1747.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20300(1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Peak To Average Ratio	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Conducted Emission	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK	6 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK	15 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK	75 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK	100 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	19957 to 20393	19957(1710.7MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

LTE Band 7

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	2850 to 3350	21100(2535.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Frequency Stability	2775 to 3425	20775(2502.5MHz), 21425(2567.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz), 21400(2565.0MHz),	10MHz	QPSK	1 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz), 21375(2562.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21350(2560.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK / 16QAM	75 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Band Edge	2775 to 3425	20775(2502.5MHz), 21425(2567.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz), 21400(2565.0MHz),	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz), 21375(2562.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21350(2560.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak To Average Ratio	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Conducted Emission	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK	50 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK	75 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK	100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	2775 to 3425	20775(2502.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		2800 to 3400	20800(2505.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		2825 to 3375	20825(2507.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

LTE Band 12

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23017 to 23171	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23095(707.5MHz), 23165(714.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5 MHz), 23130(711.0 MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	23060 to 23130	23095(707.5MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Frequency Stability	23017 to 23171	23017(699.7MHz), 23173(715.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23165(714.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23155(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23130(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	23017 to 23171	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK / 16QAM	6 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23095(707.5MHz), 23165(714.5MHz)	3MHz	QPSK / 16QAM	15 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5MHz), 23130(711.0MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Band Edge	23017 to 23171	23017(699.7MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset 6 RB / 0 RB Offset
			23173(715.3MHz)	1.4MHz	QPSK	1 RB / 5 RB Offset 6 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset 15 RB / 0 RB Offset
			23165(714.5MHz)	3MHz	QPSK	1 RB / 14 RB Offset 15 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			23155(713.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			23130(711.0MHz)	10MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Peak to Average Ratio	23017 to 23171	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23095(707.5MHz), 23165(714.5MHz)	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5MHz), 23130(711.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Conducted Emission	23017 to 23171	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK	6 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz), 23095(707.5MHz), 23165(714.5MHz)	3MHz	QPSK	15 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5MHz), 23130(711.0MHz)	10MHz	QPSK	50 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	23017 to 23171	23017(699.7MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		23025 to 23165	23025(700.5MHz)	3MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23017 to 23171	23017(699.7MHz), 23095(707.5MHz), 23173(715.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035(701.5MHz), 23095(707.5MHz), 23155(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060(704.0MHz), 23095(707.5MHz), 23130(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

LTE Band 13

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	23230	23230(782.0MHz),	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Frequency Stability	23205 to 23255	23205(779.5MHz), 23255(784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230(782.0MHz),	10MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Band Edge	23205 to 23255	23205(779.5MHz), 23255(784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
-	Peak to Average Ratio	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Conducted Emission	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	23205 to 23255	23205(779.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

LTE Band 17

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23755 to 23825	23755(706.5MHz), 23790(710.0MHz), 23825(713.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23790(710.0MHz), 23800(711.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	23780 to 23800	23790(710.0MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Frequency Stability	23755 to 23825	23755(706.5MHz), 23825(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23800(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	23755 to 23825	23755(706.5MHz), 23790(710.0MHz), 23825(713.5MHz)	5MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23790(710.0MHz), 23800(711.0MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Band Edge	23755 to 23825	23755(706.5MHz), 23825(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23800(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
-	Peak to Average Ratio	23205 to 23255	23205(779.5MHz), 23230(782.0MHz), 23255(784.5MHz)	5MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		23230	23230(782.0MHz)	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
-	Conducted Emission	23755 to 23825	23755(706.5MHz), 23790(710.0MHz), 23825(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23790(710.0MHz), 23800(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	23755 to 23825	23755(706.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23780 to 23800	23780(710.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23755 to 23825	23755(706.5MHz), 23790(710.0MHz), 23825(713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23780 to 23800	23780(709.0MHz), 23790(710.0MHz), 23800(711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

LTE Band 38

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	37850 to 38150	38000(2595.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Frequency Stability	37775 to 38225	37775(2572.5MHz), 38225(2617.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz), 38200(2615.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz), 38175(2612.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38150(2610.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Band Edge	37775 to 38225	37775(2572.5MHz), 38225(2617.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz), 38200(2615.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz), 38175(2612.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38150(2610.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak to Average Ratio	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	37775 to 38225	37775(2572.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		37800 to 38200	37800(2575.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		37825 to 38175	37825(2577.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

LTE Band 41

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	40165 to 41215	40165(2547.5MHz), 40690(2600.0MHz), 41215(2652.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz), 40690(2600.0MHz), 41190(2650.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz), 40690(2600.0MHz), 41165(2647.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 40690(2600.0MHz), 41140(2645.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	40240 to 41140	40690(2600.0MHz)	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Frequency Stability	40165 to 41215	40165(2547.5MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz), 41190(2650.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz), 41165(2647.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 41140(2645.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	40165 to 41215	40165(2547.5MHz), 40690(2600.0MHz), 41215(2652.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz), 40690(2600.0MHz), 41190(2650.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz), 40690(2600.0MHz), 41165(2647.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 40690(2600.0MHz), 41140(2645.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Band Edge	40165 to 41215	40165(2547.5MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz), 41190(2650.0MHz)	10MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz), 41165(2647.5MHz)	15MHz	QPSK	1 RB / 74 RB Offset 75 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 41140(2645.0MHz)	20MHz	QPSK	1 RB / 99 RB Offset 100 RB / 0 RB Offset
-	Peak to Average Ratio	40165 to 41215	40165(2547.5MHz), 40690(2600.0MHz), 41215(2652.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz), 40690(2600.0MHz), 41190(2650.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz), 40690(2600.0MHz), 41165(2647.5MHz)	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 40690(2600.0MHz), 41140(2645.0MHz)	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Conducted Emission	40165 to 41215	40165(2547.5MHz), 40690(2600.0MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz), 40690(2600.0MHz), 41190(2650.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz), 40690(2600.0MHz), 41165(2647.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 40690(2600.0MHz), 41140(2645.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	40165 to 41215	40165(2547.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		40190 to 41190	40190(2550.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		40215 to 41165	40215(2552.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	40165 to 41215	40165(2547.5MHz), 40690(2600.0MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		40240 to 41140	40240(2555.0MHz), 40690(2600.0MHz), 41140(2645.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber with 1.4MHz mode. Low channel on mode A was found to be the worst case and therefore had been chosen for all final tests.
2. The conducted output power for QPSK and 16QAM, measured value of QPSK is higher than 16QAM mode. Therefore, only occupied bandwidth and Peak to average ratio items had been tested under QPSK and 16QAM modes, the other test items were performed under QPSK mode only.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP/ERP	25deg. C, 70%RH	120Vac, 60Hz	Noah Chang
Modulation characteristics	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Frequency Stability	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Occupied Bandwidth	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Band Edge	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Peak To Average Ratio	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Conducted Emission	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Radiated Emission	25deg. C, 70%RH	120Vac, 60Hz	Noah Chang

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

Note: All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 1 watts e.i.r.p for WCDMA, LTE Band 4, 2 watts e.r.p. for LTE Band 7, Band 38, Band 41 and 3 watts e.r.p for LTE Band 12, Band 13 & Band 17.

4.1.2 Test Procedures

EIRP / ERP Measurement:

- a. All measurements were done at low, middle and high operational frequency range. RWB and VBW is 5MHz for WCDMA mode and 5MHz for LTE Mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15\text{dBi}$.

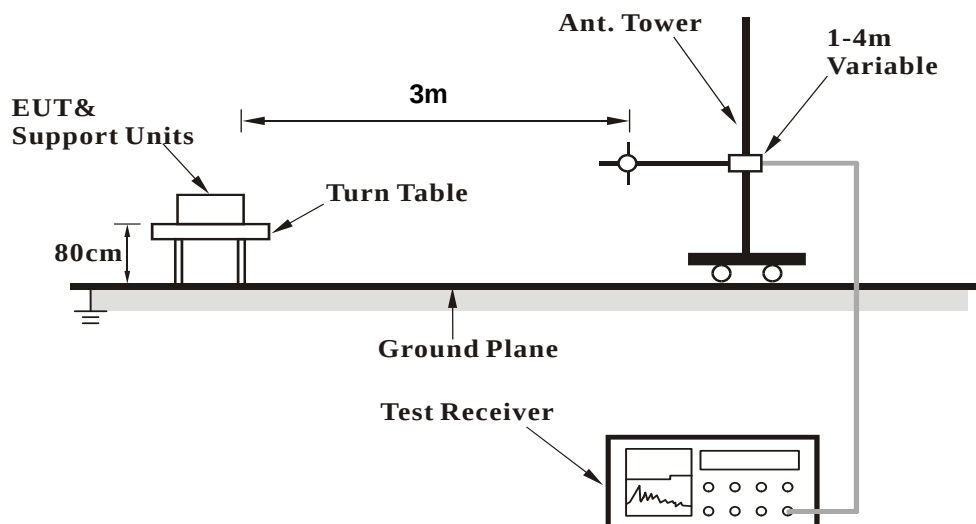
Conducted Power Measurement:

A power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

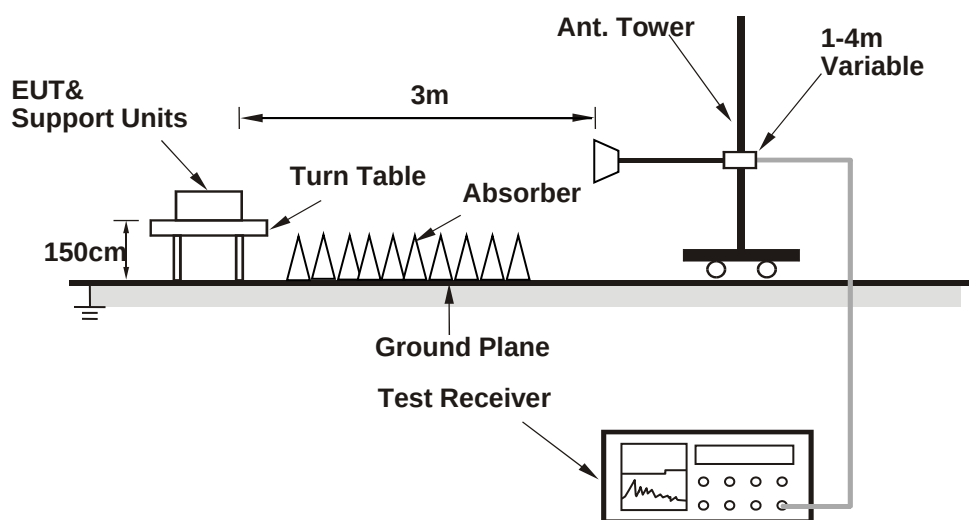
4.1.3 Test Setup

EIRP / ERP MEASUREMENT:

For Radiated Emission below or equal 1GHz



For Radiated Emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.4 Test Results

CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA Band IV		
TX Channel	1312	1413	1513
Rx Channel	1537	1638	1738
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	22.84	22.93	22.85
HSDPA Subtest-1	22.13	22.22	22.14
HSDPA Subtest-2	22.07	22.16	22.08
HSDPA Subtest-3	21.59	21.68	21.60
HSDPA Subtest-4	21.57	21.66	21.58
DC-HSDPA Subtest-1	22.05	22.14	22.06
DC-HSDPA Subtest-2	21.99	22.08	22.00
DC-HSDPA Subtest-3	21.51	21.60	21.52
DC-HSDPA Subtest-4	21.49	21.58	21.50
HSUPA Subtest-1	21.93	22.02	21.94
HSUPA Subtest-2	20.09	20.18	20.10
HSUPA Subtest-3	20.94	21.03	20.95
HSUPA Subtest-4	20.08	20.17	20.09
HSUPA Subtest-5	22.04	22.13	22.05

Conducted Output Power (dBm)

LTE Band 4								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20050	20175	20300		
		Frequency (MHz)		1720	1732.5	1745		
20M	QPSK	1	0	23.16	23.18	23.14	0	23.5
		1	50	23.09	23.01	23.07	0	23.5
		1	99	22.92	22.94	22.97	0	23.5
		50	0	22.01	22.13	22.09	1	22.5
		50	25	21.97	22.09	22.05	1	22.5
		50	50	21.95	22.07	22.03	1	22.5
		100	0	21.99	22.11	22.07	1	22.5
	16QAM	1	0	21.84	21.96	21.92	1	22.5
		1	50	21.77	21.89	21.85	1	22.5
		1	99	21.60	21.72	21.68	1	22.5
		50	0	20.99	21.11	21.07	2	21.5
		50	25	20.95	21.07	21.03	2	21.5
		50	50	20.93	21.05	21.01	2	21.5
		100	0	20.97	21.09	21.05	2	21.5
BW	MCS Index	Channel		20025	20175	20325	3GPP MPR	Max. Tune-up
		Frequency (MHz)		1717.5	1732.5	1747.5		
15M	QPSK	1	0	22.92	23.04	22.98	0	23.5
		1	37	22.85	22.97	22.93	0	23.5
		1	74	22.78	22.91	22.86	0	23.5
		36	0	21.97	22.09	22.05	1	22.5
		36	19	21.93	22.05	22.01	1	22.5
		36	39	21.91	22.03	21.99	1	22.5
		75	0	21.95	22.07	22.03	1	22.5
	16QAM	1	0	21.80	21.92	21.88	1	22.5
		1	37	21.73	21.85	21.81	1	22.5
		1	74	21.56	21.68	21.64	1	22.5
		36	0	20.95	21.07	21.03	2	21.5
		36	19	20.91	21.03	20.99	2	21.5
		36	39	20.89	21.01	20.97	2	21.5
		75	0	20.93	21.05	21.01	2	21.5

LTE Band 4								
BW	MCS Index	Channel		20000	20175	20350	3GPP MPR	Max. Tune-up
		Frequency (MHz)		1715	1732.5	1750		
10M	QPSK	1	0	22.87	22.95	22.91	0	23.5
		1	24	22.80	22.88	22.82	0	23.5
		1	49	22.63	22.75	22.71	0	23.5
		25	0	21.92	22.04	22.00	1	22.5
		25	12	21.88	22.00	21.96	1	22.5
		25	25	21.86	21.98	21.94	1	22.5
		50	0	21.90	22.02	21.98	1	22.5
	16QAM	1	0	21.75	21.87	21.83	1	22.5
		1	24	21.68	21.80	21.76	1	22.5
		1	49	21.51	21.63	21.59	1	22.5
		25	0	20.90	21.02	20.98	2	21.5
		25	12	20.86	20.98	20.94	2	21.5
		25	25	20.84	20.96	20.92	2	21.5
		50	0	20.88	21.00	20.96	2	21.5
BW	MCS Index	Channel		19975	20175	20375	3GPP MPR	Max. Tune-up
		Frequency (MHz)		1712.5	1732.5	1752.5		
5M	QPSK	1	0	22.75	22.87	22.83	0	23.5
		1	12	22.68	22.80	22.76	0	23.5
		1	24	22.51	22.63	22.59	0	23.5
		12	0	21.90	22.02	21.98	1	22.5
		12	6	21.86	21.98	21.94	1	22.5
		12	13	21.84	21.96	21.92	1	22.5
		25	0	21.88	22.00	21.96	1	22.5
	16QAM	1	0	21.73	21.85	21.81	1	22.5
		1	12	21.66	21.78	21.74	1	22.5
		1	24	21.49	21.61	21.57	1	22.5
		12	0	20.88	21.00	20.96	2	21.5
		12	6	20.84	20.96	20.92	2	21.5
		12	13	20.82	20.94	20.90	2	21.5
		25	0	20.86	20.98	20.94	2	21.5

LTE Band 4								
BW	MCS Index	Channel		19965	20175	20385	3GPP MPR	Max. Tune-up
		Frequency (MHz)		1711.5	1732.5	1753.5		
3M	QPSK	1	0	22.71	22.83	22.79	0	23.5
		1	7	22.64	22.76	22.72	0	23.5
		1	14	22.47	22.59	22.55	0	23.5
		8	0	21.86	21.98	21.94	1	22.5
		8	3	21.82	21.94	21.90	1	22.5
		8	7	21.80	21.92	21.88	1	22.5
		15	0	21.84	21.96	21.92	1	22.5
	16QAM	1	0	21.69	21.81	21.77	1	22.5
		1	7	21.62	21.74	21.70	1	22.5
		1	14	21.45	21.57	21.53	1	22.5
		8	0	20.84	20.96	20.92	2	21.5
		8	3	20.80	20.92	20.88	2	21.5
		8	7	20.78	20.90	20.86	2	21.5
		15	0	20.82	20.94	20.90	2	21.5
BW	MCS Index	Channel		19957	20175	20393	3GPP MPR	Max. Tune-up
		Frequency (MHz)		1710.7	1732.5	1754.3		
1.4M	QPSK	1	0	22.73	22.85	22.81	0	23.5
		1	2	22.66	22.78	22.74	0	23.5
		1	5	22.49	22.61	22.57	0	23.5
		3	0	22.67	22.79	22.75	0	23.5
		3	1	22.63	22.75	22.71	0	23.5
		3	3	22.61	22.73	22.69	0	23.5
		6	0	21.86	21.98	21.94	1	22.5
	16QAM	1	0	21.71	21.83	21.79	1	22.5
		1	2	21.64	21.76	21.72	1	22.5
		1	5	21.47	21.59	21.55	1	22.5
		3	0	21.65	21.77	21.73	1	22.5
		3	1	21.61	21.73	21.69	1	22.5
		3	3	21.59	21.71	21.67	1	22.5
		6	0	20.84	20.96	20.92	2	21.5

LTE Band 7								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20850	21100	21350		
		Frequency (MHz)		2510	2535	2560		
20M	QPSK	1	0	22.03	22.31	22.18	0	23.5
		1	50	21.86	22.14	22.01	0	23.5
		1	99	21.83	22.11	21.98	0	23.5
		50	0	20.91	21.19	21.06	1	22.5
		50	25	20.89	21.17	21.04	1	22.5
		50	50	20.85	21.13	21.00	1	22.5
		100	0	20.77	21.05	20.92	1	22.5
	16QAM	1	0	21.02	21.30	21.17	1	22.5
		1	50	20.85	21.13	21.00	1	22.5
		1	99	20.82	21.10	20.97	1	22.5
		50	0	19.90	20.18	20.05	2	21.5
		50	25	19.88	20.16	20.03	2	21.5
		50	50	19.84	20.12	19.99	2	21.5
		100	0	19.76	20.04	19.91	2	21.5
BW	MCS Index	Channel		20825	21100	21375	3GPP MPR	Max. Tune-up
		Frequency (MHz)		2507.5	2535	2562.5		
15M	QPSK	1	0	21.98	22.26	22.13	0	23.5
		1	37	21.81	22.09	21.96	0	23.5
		1	74	21.78	22.06	21.93	0	23.5
		36	0	20.86	21.14	21.01	1	22.5
		36	19	20.84	21.12	20.99	1	22.5
		36	39	20.80	21.08	20.95	1	22.5
		75	0	20.72	21.00	20.87	1	22.5
	16QAM	1	0	20.97	21.25	21.12	1	22.5
		1	37	20.80	21.08	20.95	1	22.5
		1	74	20.77	21.05	20.92	1	22.5
		36	0	19.85	20.13	20.00	2	21.5
		36	19	19.83	20.11	19.98	2	21.5
		36	39	19.79	20.07	19.94	2	21.5
		75	0	19.71	19.99	19.86	2	21.5

LTE Band 7								
BW	MCS Index	Channel		20800	21100	21400	3GPP MPR	Max. Tune-up
		Frequency (MHz)		2505	2535	2565		
10M	QPSK	1	0	21.92	22.20	22.07	0	23.5
		1	24	21.75	22.03	21.90	0	23.5
		1	49	21.72	22.00	21.87	0	23.5
		25	0	20.80	21.08	20.95	1	22.5
		25	12	20.78	21.06	20.93	1	22.5
		25	25	20.74	21.02	20.89	1	22.5
		50	0	20.66	20.94	20.81	1	22.5
	16QAM	1	0	20.91	21.19	21.06	1	22.5
		1	24	20.74	21.02	20.89	1	22.5
		1	49	20.71	20.99	20.86	1	22.5
		25	0	19.79	20.07	19.94	2	21.5
		25	12	19.77	20.05	19.92	2	21.5
		25	25	19.73	20.01	19.88	2	21.5
		50	0	19.65	19.93	19.80	2	21.5
BW	MCS Index	Channel		20775	21100	21425	3GPP MPR	Max. Tune-up
		Frequency (MHz)		2502.5	2535	2567.5		
5M	QPSK	1	0	21.88	22.16	22.03	0	23.5
		1	12	21.71	21.99	21.86	0	23.5
		1	24	21.68	21.96	21.83	0	23.5
		12	0	20.76	21.04	20.91	1	22.5
		12	6	20.74	21.02	20.89	1	22.5
		12	13	20.70	20.98	20.85	1	22.5
		25	0	20.62	20.90	20.77	1	22.5
	16QAM	1	0	20.87	21.15	21.02	1	22.5
		1	12	20.70	20.98	20.85	1	22.5
		1	24	20.67	20.95	20.82	1	22.5
		12	0	19.75	20.03	19.90	2	21.5
		12	6	19.73	20.01	19.88	2	21.5
		12	13	19.69	19.97	19.84	2	21.5
		25	0	19.61	19.89	19.76	2	21.5

LTE Band 12								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23060	23095	23130		
		Frequency (MHz)		704	707.5	711		
10M	QPSK	1	0	23.56	23.66	23.81	0	24
		1	24	23.69	23.79	23.94	0	24
		1	49	23.54	23.64	23.79	0	24
		25	0	22.54	22.64	22.79	1	23
		25	12	22.61	22.71	22.86	1	23
		25	25	22.53	22.63	22.78	1	23
		50	0	22.52	22.62	22.77	1	23
	16QAM	1	0	22.54	22.64	22.79	1	23
		1	24	22.67	22.77	22.92	1	23
		1	49	22.52	22.62	22.77	1	23
		25	0	21.52	21.62	21.77	2	22
		25	12	21.59	21.69	21.84	2	22
		25	25	21.51	21.61	21.76	2	22
		50	0	21.50	21.60	21.75	2	22
BW	MCS Index	Channel		23035	23095	23155	3GPP MPR	Max. Tune-up
		Frequency (MHz)		701.5	707.5	713.5		
5M	QPSK	1	0	23.51	23.61	23.76	0	24
		1	12	23.64	23.74	23.89	0	24
		1	24	23.49	23.59	23.74	0	24
		12	0	22.49	22.59	22.74	1	23
		12	6	22.56	22.66	22.81	1	23
		12	13	22.48	22.58	22.73	1	23
		25	0	22.47	22.57	22.72	1	23
	16QAM	1	0	22.49	22.59	22.74	1	23
		1	12	22.62	22.72	22.87	1	23
		1	24	22.47	22.57	22.72	1	23
		12	0	21.47	21.57	21.72	2	22
		12	6	21.54	21.64	21.79	2	22
		12	13	21.46	21.56	21.71	2	22
		25	0	21.45	21.55	21.70	2	22

LTE Band 12								
BW	MCS Index	Channel		23025	23095	23165	3GPP MPR	Max. Tune-up
		Frequency (MHz)		700.5	707.5	714.5		
3M	QPSK	1	0	23.48	23.58	23.73	0	24
		1	7	23.61	23.71	23.86	0	24
		1	14	23.46	23.56	23.71	0	24
		8	0	22.46	22.56	22.71	1	23
		8	3	22.53	22.63	22.78	1	23
		8	7	22.45	22.55	22.70	1	23
		15	0	22.44	22.54	22.69	1	23
	16QAM	1	0	22.46	22.56	22.71	1	23
		1	7	22.59	22.69	22.84	1	23
		1	14	22.44	22.54	22.69	1	23
		8	0	21.44	21.54	21.69	2	22
		8	3	21.51	21.61	21.76	2	22
		8	7	21.43	21.53	21.68	2	22
		15	0	21.42	21.52	21.67	2	22
BW	MCS Index	Channel		23017	23095	23173	3GPP MPR	Max. Tune-up
		Frequency (MHz)		699.7	707.5	715.3		
1.4M	QPSK	1	0	23.45	23.55	23.70	0	24
		1	2	23.58	23.68	23.83	0	24
		1	5	23.43	23.53	23.68	0	24
		3	0	23.32	23.42	23.57	0	24
		3	1	23.39	23.49	23.64	0	24
		3	3	23.31	23.41	23.56	0	24
		6	0	22.41	22.51	22.66	1	23
	16QAM	1	0	22.43	22.53	22.68	1	23
		1	2	22.56	22.66	22.81	1	23
		1	5	22.41	22.51	22.66	1	23
		3	0	22.31	22.41	22.56	1	23
		3	1	22.38	22.48	22.63	1	23
		3	3	22.30	22.40	22.55	1	23
		6	0	21.39	21.49	21.64	2	22

LTE Band 13								
BW	MCS Index	RB Size	RB Offset	Mid			3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23230				
		Frequency (MHz)		782				
10M	QPSK	1	0	23.59			0	24
		1	24	23.82			0	24
		1	49	23.75			0	24
		25	0	22.63			1	23
		25	12	22.71			1	23
		25	25	22.68			1	23
		50	0	22.65			1	23
	16QAM	1	0	22.55			1	23
		1	24	22.78			1	23
		1	49	22.71			1	23
		25	0	21.59			2	22
		25	12	21.67			2	22
		25	25	21.64			2	22
		50	0	21.61			2	22
BW	MCS Index	Channel		23205	23230	23255	3GPP MPR	Max. Tune-up
		Frequency (MHz)		779.5	782	784.5		
5M	QPSK	1	0	23.51	23.56	23.47	0	24
		1	12	23.74	23.79	23.70	0	24
		1	24	23.67	23.72	23.63	0	24
		12	0	22.55	22.60	22.51	1	23
		12	6	22.63	22.68	22.59	1	23
		12	13	22.60	22.65	22.56	1	23
		25	0	22.57	22.62	22.53	1	23
	16QAM	1	0	22.47	22.52	22.43	1	23
		1	12	22.70	22.75	22.66	1	23
		1	24	22.63	22.68	22.59	1	23
		12	0	21.51	21.56	21.47	2	22
		12	6	21.59	21.64	21.55	2	22
		12	13	21.56	21.61	21.52	2	22
		25	0	21.53	21.58	21.49	2	22

LTE Band 17								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		23780	23790	23800		
		Frequency (MHz)		709	710	711		
10M	QPSK	1	0	23.39	23.31	23.33	0	24
		1	24	23.49	23.43	23.45	0	24
		1	49	23.44	23.36	23.38	0	24
		25	0	22.43	22.35	22.37	1	23
		25	12	22.48	22.43	22.45	1	23
		25	25	22.46	22.38	22.40	1	23
		50	0	22.47	22.41	22.43	1	23
	16QAM	1	0	22.36	22.28	22.30	1	23
		1	24	22.48	22.40	22.42	1	23
		1	49	22.41	22.33	22.35	1	23
		25	0	21.40	21.32	21.34	2	22
		25	12	21.48	21.40	21.42	2	22
		25	25	21.43	21.35	21.37	2	22
		50	0	21.46	21.38	21.40	2	22
BW	MCS Index	Channel		23755	23790	23825	3GPP MPR	Max. Tune-up
		Frequency (MHz)		706.5	710	713.5		
5M	QPSK	1	0	23.35	23.27	23.29	0	24
		1	12	23.47	23.39	23.41	0	24
		1	24	23.40	23.32	23.34	0	24
		12	0	22.39	22.31	22.33	1	23
		12	6	22.47	22.39	22.41	1	23
		12	13	22.42	22.34	22.36	1	23
		25	0	22.45	22.37	22.39	1	23
	16QAM	1	0	22.32	22.24	22.26	1	23
		1	12	22.44	22.36	22.38	1	23
		1	24	22.37	22.29	22.31	1	23
		12	0	21.36	21.28	21.30	2	22
		12	6	21.44	21.36	21.38	2	22
		12	13	21.39	21.31	21.33	2	22
		25	0	21.42	21.34	21.36	2	22

LTE Band 38								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37850	38000	38150		
		Frequency (MHz)		2580	2595	2610		
20M	QPSK	1	0	22.49	22.29	22.41	0	23
		1	50	22.78	22.58	22.70	0	23
		1	99	22.62	22.42	22.54	0	23
		50	0	21.67	21.47	21.59	1	22
		50	25	21.87	21.67	21.79	1	22
		50	50	21.71	21.51	21.63	1	22
		100	0	21.65	21.45	21.57	1	22
	16QAM	1	0	21.39	21.20	21.37	1	22
		1	50	21.75	21.48	21.66	1	22
		1	99	21.56	21.33	21.44	1	22
		50	0	20.65	20.39	20.57	2	21
		50	25	20.82	20.61	20.76	2	21
		50	50	20.71	20.50	20.58	2	21
		100	0	20.63	20.43	20.53	2	21
BW	MCS Index	Channel		37825	38000	38175	3GPP MPR	Max. Tune-up
		Frequency (MHz)		2577.5	2595	2612.5		
15M	QPSK	1	0	22.45	22.28	22.37	0	23
		1	37	22.71	22.53	22.70	0	23
		1	74	22.61	22.37	22.54	0	23
		36	0	21.62	21.40	21.52	1	22
		36	19	21.86	21.62	21.71	1	22
		36	39	21.65	21.47	21.58	1	22
		75	0	21.61	21.36	21.51	1	22
	16QAM	1	0	21.34	21.20	21.33	1	22
		1	37	21.69	21.57	21.62	1	22
		1	74	21.50	21.37	21.40	1	22
		36	0	20.57	20.35	20.53	2	21
		36	19	20.73	20.61	20.72	2	21
		36	39	20.60	20.47	20.58	2	21
		75	0	20.49	20.38	20.51	2	21

LTE Band 38								
BW	MCS Index	Channel		37800	38000	38200	3GPP MPR	Max. Tune-up
		Frequency (MHz)		2575	2595	2615		
10M	QPSK	1	0	22.33	22.19	22.28	0	23
		1	24	22.67	22.45	22.65	0	23
		1	49	22.44	22.26	22.49	0	23
		25	0	21.48	21.28	21.49	1	22
		25	12	21.69	21.43	21.65	1	22
		25	25	21.56	21.35	21.53	1	22
		50	0	21.44	21.24	21.37	1	22
	16QAM	1	0	21.27	21.14	21.22	1	22
		1	24	21.51	21.45	21.54	1	22
		1	49	21.38	21.36	21.45	1	22
		25	0	20.56	20.24	20.42	2	21
		25	12	20.74	20.57	20.69	2	21
		25	25	20.54	20.23	20.37	2	21
		50	0	20.43	20.21	20.37	2	21
BW	MCS Index	Channel		37775	38000	38225	3GPP MPR	Max. Tune-up
		Frequency (MHz)		2572.5	2595	2617.5		
5M	QPSK	1	0	22.32	22.21	22.30	0	23
		1	12	22.75	22.40	22.55	0	23
		1	24	22.54	22.26	22.39	0	23
		12	0	21.67	21.32	21.43	1	22
		12	6	21.67	21.44	21.62	1	22
		12	13	21.53	21.43	21.53	1	22
		25	0	21.60	21.35	21.43	1	22
	16QAM	1	0	21.27	21.09	21.23	1	22
		1	12	21.64	21.39	21.50	1	22
		1	24	21.48	21.34	21.27	1	22
		12	0	20.42	20.30	20.59	2	21
		12	6	20.75	20.45	20.45	2	21
		12	13	20.62	20.33	20.50	2	21
		25	0	20.41	20.28	20.35	2	21

LTE Band 41								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		40240	40690	41140		
		Frequency (MHz)		2555	2600	2645		
20M	QPSK	1	0	22.52	22.43	22.51	0	23
		1	50	22.79	22.70	22.78	0	23
		1	99	22.77	22.68	22.76	0	23
		50	0	21.47	21.40	21.46	1	22
		50	25	21.72	21.68	21.71	1	22
		50	50	21.63	21.58	21.62	1	22
		100	0	21.61	21.52	21.60	1	22
	16QAM	1	0	21.50	21.40	21.49	1	22
		1	50	21.77	21.70	21.76	1	22
		1	99	21.75	21.65	21.74	1	22
		50	0	20.45	20.42	20.44	2	21
		50	25	20.70	20.67	20.69	2	21
		50	50	20.61	20.52	20.60	2	21
		100	0	20.59	20.56	20.58	2	21
BW	MCS Index	Channel		40215	40690	41165	3GPP MPR	Max. Tune-up
		Frequency (MHz)		2552.5	2600	2647.5		
15M	QPSK	1	0	22.47	22.40	22.46	0	23
		1	37	22.74	22.65	22.73	0	23
		1	74	22.72	22.64	22.71	0	23
		36	0	21.42	21.34	21.41	1	22
		36	19	21.67	21.58	21.66	1	22
		36	39	21.58	21.50	21.57	1	22
		75	0	21.56	21.51	21.55	1	22
	16QAM	1	0	21.45	21.42	21.44	1	22
		1	37	21.72	21.67	21.71	1	22
		1	74	21.70	21.62	21.69	1	22
		36	0	20.40	20.27	20.39	2	21
		36	19	20.65	20.48	20.64	2	21
		36	39	20.56	20.44	20.55	2	21
		75	0	20.54	20.46	20.53	2	21

LTE Band 41								
BW	MCS Index	Channel		40190	40690	41190	3GPP MPR	Max. Tune-up
		Frequency (MHz)		2550	2600	2650		
10M	QPSK	1	0	22.44	22.33	22.43	0	23
		1	24	22.71	22.62	22.70	0	23
		1	49	22.69	22.60	22.68	0	23
		25	0	21.39	21.34	21.38	1	22
		25	12	21.64	21.56	21.63	1	22
		25	25	21.55	21.46	21.54	1	22
		50	0	21.53	21.48	21.52	1	22
	16QAM	1	0	21.42	21.36	21.41	1	22
		1	24	21.69	21.60	21.68	1	22
		1	49	21.67	21.58	21.66	1	22
		25	0	20.37	20.29	20.36	2	21
		25	12	20.62	20.53	20.61	2	21
		25	25	20.53	20.49	20.52	2	21
		50	0	20.51	20.48	20.50	2	21
BW	MCS Index	Channel		40165	40690	41215	3GPP MPR	Max. Tune-up
		Frequency (MHz)		2547.5	2600	2652.5		
5M	QPSK	1	0	22.42	22.34	22.41	0	23
		1	12	22.69	22.60	22.68	0	23
		1	24	22.67	22.57	22.66	0	23
		12	0	21.37	21.28	21.36	1	22
		12	6	21.62	21.50	21.61	1	22
		12	13	21.53	21.45	21.52	1	22
		25	0	21.51	21.43	21.50	1	22
	16QAM	1	0	21.40	21.30	21.39	1	22
		1	12	21.67	21.60	21.66	1	22
		1	24	21.65	21.57	21.64	1	22
		12	0	20.35	20.30	20.34	2	21
		12	6	20.60	20.52	20.59	2	21
		12	13	20.51	20.46	20.50	2	21
		25	0	20.49	20.45	20.48	2	21

EIRP Power (dBm)

WCDMA Band 4 Mode

MODE		TX channel 1312					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.40	-21.6	16.0	1.0	17.0	30.0	-13.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.40	-14.2	24.4	1.0	25.4	30.0	-4.6

MODE		TX channel 1413					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.60	-20.9	16.8	1.0	17.8	30.0	-12.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.60	-14.0	24.5	1.0	25.5	30.0	-4.5

MODE		TX channel 1513					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.60	-21.1	16.6	1.1	17.7	30.0	-12.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.60	-13.9	24.4	1.1	25.5	30.0	-4.5

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Modulation Type: QPSK

LTE Band 4

Channel Bandwidth: 1.4MHz

MODE		TX channel 19957					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1710.70	-21.68	16.77	0.99	17.76	30.00	-12.24
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1710.70	-15.19	24.04	0.99	25.03	30.00	-4.97

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-22.21	16.44	1.01	17.45	30.00	-12.55
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-15.36	23.84	1.01	24.85	30.00	-5.15

MODE		TX channel 20393					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1754.30	-21.75	17.10	1.02	18.12	30.00	-11.88
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1754.30	-14.92	24.26	1.02	25.28	30.00	-4.72

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 3MHz

MODE		TX channel 19965					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1711.50	-21.33	17.13	0.99	18.12	30.00	-11.88
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1711.50	-14.62	24.61	0.99	25.60	30.00	-4.40

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-21.63	17.02	1.01	18.03	30.00	-11.97
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-15.28	23.92	1.01	24.93	30.00	-5.07

MODE		TX channel 20385					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1753.50	-22.09	16.75	1.02	17.77	30.00	-12.23
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1753.50	-14.98	24.20	1.02	25.22	30.00	-4.78

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 5MHz

MODE		TX channel 19975					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-21.71	16.76	0.99	17.75	30.00	-12.25
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-15.30	23.93	0.99	24.92	30.00	-5.08

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-21.99	16.66	1.01	17.67	30.00	-12.33
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-14.76	24.44	1.01	25.45	30.00	-4.55

MODE		TX channel 20375					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.50	-21.25	17.58	1.02	18.60	30.00	-11.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.50	-15.39	23.79	1.02	24.81	30.00	-5.19

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 20000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-22.02	16.48	0.99	17.47	30.00	-12.53
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-15.39	23.84	0.99	24.83	30.00	-5.17

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-21.63	17.02	1.01	18.03	30.00	-11.97
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-15.66	23.54	1.01	24.55	30.00	-5.45

MODE		TX channel 20350					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1750.00	-21.47	17.35	1.01	18.36	30.00	-11.64
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1750.00	-14.78	24.42	1.01	25.43	30.00	-4.57

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 15MHz

MODE		TX channel 20025					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-22.07	16.45	0.99	17.44	30.00	-12.56
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-15.05	24.18	0.99	25.17	30.00	-4.83

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-21.18	17.47	1.01	18.48	30.00	-11.52
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-15.20	24.00	1.01	25.01	30.00	-4.99

MODE		TX channel 20325					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1747.50	-22.66	16.13	1.01	17.14	30.00	-12.86
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1747.50	-14.88	24.32	1.01	25.33	30.00	-4.67

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 20MHz

MODE		TX channel 20050					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-21.03	17.50	1.00	18.50	30.00	-11.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-15.09	24.13	1.00	25.13	30.00	-4.87

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-21.12	17.53	1.01	18.54	30.00	-11.46
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-15.19	24.01	1.01	25.02	30.00	-4.98

MODE		TX channel 20300					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-21.61	17.16	1.01	18.17	30.00	-11.83
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-14.75	24.45	1.01	25.46	30.00	-4.54

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 7

Channel Bandwidth: 5MHz

MODE		TX channel 20775					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2502.50	-22.30	20.20	0.70	20.90	33.00	-12.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2502.50	-19.86	22.76	0.68	23.44	33.00	-9.56

MODE		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-21.69	20.85	0.74	21.59	33.00	-11.41
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-20.32	22.50	0.74	23.24	33.00	-9.76

MODE		TX channel 21425					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2567.50	-22.63	19.93	0.81	20.74	33.00	-12.26
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2567.50	-19.77	23.24	0.81	24.05	33.00	-8.95

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 20800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2505.00	-22.63	19.90	0.68	20.58	33.00	-12.42
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2505.00	-20.36	22.28	0.68	22.96	33.00	-10.04

MODE		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-21.96	20.58	0.74	21.32	33.00	-11.68
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-19.86	22.96	0.74	23.70	33.00	-9.30

MODE		TX channel 21400					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2565.00	-22.03	20.53	0.80	21.33	33.00	-11.67
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2565.00	-20.33	22.67	0.80	23.47	33.00	-9.53

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 15MHz

MODE		TX channel 20825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2507.50	-22.30	20.22	0.69	20.91	33.00	-12.09
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2507.50	-19.77	22.88	0.69	23.57	33.00	-9.43

MODE		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-22.17	20.37	0.74	21.11	33.00	-11.89
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-20.39	22.43	0.74	23.17	33.00	-9.83

MODE		TX channel 21375					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2562.50	-22.88	19.67	0.80	20.47	33.00	-12.53
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2562.50	-20.78	22.20	0.80	23.00	33.00	-10.00

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 20MHz

MODE		TX channel 20850					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2510.00	-21.87	20.66	0.69	21.35	33.00	-11.65
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2510.00	-19.99	22.68	0.69	23.37	33.00	-9.63

MODE		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-22.37	20.17	0.74	20.91	33.00	-12.09
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-20.96	21.86	0.74	22.60	33.00	-10.40

MODE		TX channel 21350					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2560.00	-22.53	20.03	0.79	20.82	33.00	-12.18
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2560.00	-20.68	22.29	0.79	23.08	33.00	-9.92

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 12

Channel Bandwidth: 1.4MHz

MODE		TX channel 23017					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	699.70	-19.80	8.40	-0.50	7.90	34.80	-26.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm))	Limit (dBm)	Margin (dB)
1	699.70	-9.40	21.90	-0.50	21.40	34.80	-13.40

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-19.50	9.00	-0.50	8.50	34.80	-26.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-9.80	21.80	-0.50	21.30	34.80	-13.50

MODE		TX channel 23173					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	715.30	-19.70	8.80	-0.50	8.30	34.80	-26.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	715.30	-9.50	22.40	-0.50	21.90	34.80	-12.90

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 3MHz

MODE		TX channel 23025					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	700.50	-19.90	8.40	-0.50	7.90	34.80	-26.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	700.50	-9.90	21.40	-0.50	20.90	34.80	-13.90

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-20.30	8.20	-0.50	7.70	34.80	-27.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-9.80	21.80	-0.50	21.30	34.80	-13.50

MODE		TX channel 23165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	714.50	-20.00	8.40	-0.50	7.90	34.80	-26.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	714.50	-9.20	22.50	-0.50	22.00	34.80	-12.80

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 5MHz

MODE		TX channel 23035					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	701.50	-19.90	8.40	-0.50	7.90	34.80	-26.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	701.50	-9.80	21.50	-0.50	21.00	34.80	-13.80

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-19.70	8.80	-0.50	8.30	34.80	-26.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-9.40	22.20	-0.50	21.70	34.80	-13.10

MODE		TX channel 23155					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-20.20	8.20	-0.50	7.70	34.80	-27.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-9.10	22.50	-0.50	22.00	34.80	-12.80

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 23060					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	704.00	-19.20	9.30	-0.50	8.80	34.80	-26.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	704.00	-9.30	22.30	-0.50	21.80	34.80	-13.00

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-19.40	9.10	-0.50	8.60	34.80	-26.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-9.40	22.20	-0.50	21.70	34.80	-13.10

MODE		TX channel 23130					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-19.60	8.60	-0.50	8.10	34.80	-26.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-9.80	21.80	-0.50	21.30	34.80	-13.50

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 13

Channel Bandwidth: 5MHz

MODE		TX channel 23205					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	779.50	-9.90	21.10	-0.50	20.60	34.80	-14.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	779.50	-4.90	27.60	-0.50	27.10	34.80	-7.70

MODE		TX channel 23230					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-10.10	20.90	-0.50	20.40	34.80	-14.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-5.10	27.10	-0.50	26.60	34.80	-8.20

MODE		TX channel 23255					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	784.50	-9.90	21.10	-0.40	20.70	34.80	-14.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	784.50	-4.10	28.00	-0.40	27.60	34.80	-7.20

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 23230					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-9.60	21.40	-0.50	20.90	34.80	-13.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-4.60	27.60	-0.50	27.10	34.80	-7.70

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 17

Channel Bandwidth: 5MHz

MODE		TX channel 23755					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	706.50	-13.00	15.60	-0.50	15.10	34.80	-19.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	706.50	-7.40	24.20	-0.50	23.70	34.80	-11.10

MODE		TX channel 23790					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-12.70	15.60	-0.50	15.10	34.80	-19.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-7.80	23.80	-0.50	23.30	34.80	-11.50

MODE		TX channel 23825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-12.90	15.50	-0.50	15.00	34.80	-19.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-7.30	24.30	-0.50	23.80	34.80	-11.00

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 23780					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	709.00	-12.70	15.70	-0.50	15.20	34.80	-19.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	709.00	-7.60	24.00	-0.50	23.50	34.80	-11.30

MODE		TX channel 23790					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-13.20	15.10	-0.50	14.60	34.80	-20.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-7.40	24.20	-0.50	23.70	34.80	-11.10

MODE		TX channel 23800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-12.70	15.60	-0.50	15.10	34.80	-19.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-8.00	23.60	-0.50	23.10	34.80	-11.70

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 38

Channel Bandwidth: 5MHz

MODE		TX channel 37775					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2572.50	-23.40	19.20	0.80	20.00	33.00	-13.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2572.50	-20.93	22.12	0.81	22.93	33.00	-10.07

MODE		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-23.30	19.20	0.90	20.10	33.00	-12.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-19.89	23.30	0.85	24.15	33.00	-8.85

MODE		TX channel 38225					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-23.30	19.30	0.90	20.20	33.00	-12.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-20.52	22.78	0.85	23.63	33.00	-9.37

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 37800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2575.00	-24.10	18.50	0.80	19.30	33.00	-13.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2575.00	-20.66	22.41	0.81	23.22	33.00	-9.78

MODE		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-23.40	19.10	0.90	20.00	33.00	-13.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-19.89	23.30	0.85	24.15	33.00	-8.85

MODE		TX channel 38200					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-23.60	19.00	0.90	19.90	33.00	-13.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-20.26	23.03	0.85	23.88	33.00	-9.12

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 15MHz

MODE		TX channel 37825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2577.50	-23.30	19.30	0.80	20.10	33.00	-12.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2577.50	-20.43	22.65	0.82	23.47	33.00	-9.53

MODE		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-24.20	18.30	0.90	19.20	33.00	-13.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-19.76	23.43	0.85	24.28	33.00	-8.72

MODE		TX channel 38175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2612.50	-24.10	18.50	0.90	19.40	33.00	-13.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2612.50	-19.70	23.50	0.90	24.40	33.00	-8.60

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 20MHz

MODE		TX channel 37850					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2580.00	-24.00	18.60	0.80	19.40	33.00	-13.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2580.00	-20.00	23.10	0.80	23.90	33.00	-9.10

MODE		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-23.80	18.70	0.90	19.60	33.00	-13.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-20.70	22.40	0.90	23.30	33.00	-9.70

MODE		TX channel 38150					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2610.00	-23.60	19.00	0.90	19.90	33.00	-13.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2610.00	-19.30	23.90	0.90	24.80	33.00	-8.20

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

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Channel Bandwidth: 5MHz

MODE		TX channel 40165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2547.50	-22.6	19.9	0.8	20.7	33.0	-12.3
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2547.50	-20.6	22.3	0.8	23.1	33.0	-9.9

MODE		TX channel 40690					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-22.8	19.8	0.9	20.7	33.0	-12.3
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-20.6	22.6	0.9	23.5	33.0	-9.5

MODE		TX channel 41215					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2652.50	-22.8	19.8	0.9	20.7	33.0	-12.3
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2652.50	-20.0	23.4	0.9	24.3	33.0	-8.7

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 40190					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2550.00	-23.1	19.4	0.8	20.2	33.0	-12.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2550.00	-21.1	21.8	0.8	22.6	33.0	-10.4

MODE		TX channel 40690					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-23.2	19.4	0.9	20.3	33.0	-12.7
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-21.1	22.1	0.9	23.0	33.0	-10.0

MODE		TX channel 41190					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2650.00	-22.6	20.0	0.9	20.9	33.0	-12.1
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2650.00	-20.8	22.6	0.9	23.5	33.0	-9.5

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 15MHz

MODE		TX channel 40215					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2552.50	-22.6	19.9	0.8	20.7	33.0	-12.3
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2552.50	-20.6	22.3	0.8	23.1	33.0	-9.9

MODE		TX channel 40690					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-22.3	20.3	0.9	21.2	33.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-20.4	22.8	0.9	23.7	33.0	-9.3

MODE		TX channel 41165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2647.50	-22.3	20.3	0.9	21.2	33.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2647.50	-20.3	23.1	0.9	24.0	33.0	-9.0

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 20MHz

MODE		TX channel 40240					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2555.00	-22.7	19.8	0.8	20.6	33.0	-12.4
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2555.00	-20.9	22.0	0.8	22.8	33.0	-10.2

MODE		TX channel 40690					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-22.8	19.8	0.9	20.7	33.0	-12.3
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-21.1	22.1	0.9	23.0	33.0	-10.0

MODE		TX channel 41140					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2645.00	-22.4	20.2	0.9	21.1	33.0	-11.9
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2645.00	-20.3	23.1	0.9	24.0	33.0	-9.0

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Modulation Type: 16QAM

LTE Band 4

Channel Bandwidth: 1.4MHz

MODE		TX channel 19957					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1710.70	-23.00	15.40	1.00	16.40	30.00	-13.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1710.70	-16.10	23.10	1.00	24.10	30.00	-5.90

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-23.50	15.20	1.00	16.20	30.00	-13.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-16.10	23.10	1.00	24.10	30.00	-5.90

MODE		TX channel 20393					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1754.30	-23.40	15.40	1.10	16.50	30.00	-13.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1754.30	-16.50	22.60	1.10	23.70	30.00	-6.30

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 3MHz

MODE		TX channel 19965					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1711.50	-23.10	15.40	1.00	16.40	30.00	-13.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1711.50	-16.40	22.80	1.00	23.80	30.00	-6.20

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-23.50	15.20	1.00	16.20	30.00	-13.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-16.20	23.00	1.00	24.00	30.00	-6.00

MODE		TX channel 20385					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1753.50	-23.20	15.60	1.10	16.70	30.00	-13.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1753.50	-16.30	22.80	1.10	23.90	30.00	-6.10

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 5MHz

MODE		TX channel 19975					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-23.20	15.30	1.00	16.30	30.00	-13.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-16.40	22.80	1.00	23.80	30.00	-6.20

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-23.30	15.40	1.00	16.40	30.00	-13.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-16.00	23.20	1.00	24.20	30.00	-5.80

MODE		TX channel 20375					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.50	-23.10	15.60	1.10	16.70	30.00	-13.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1752.50	-16.40	22.70	1.10	23.80	30.00	-6.20

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 20000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-23.20	15.30	1.00	16.30	30.00	-13.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-16.10	23.10	1.00	24.10	30.00	-5.90

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-23.50	15.20	1.00	16.20	30.00	-13.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-16.50	22.70	1.00	23.70	30.00	-6.30

MODE		TX channel 20350					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1750.00	-23.20	15.50	1.10	16.60	30.00	-13.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1750.00	-16.00	23.10	1.10	24.20	30.00	-5.80

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 15MHz

MODE		TX channel 20025					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-22.40	16.10	1.00	17.10	30.00	-12.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-16.20	23.00	1.00	24.00	30.00	-6.00

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-23.50	15.20	1.00	16.20	30.00	-13.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-16.20	23.00	1.00	24.00	30.00	-6.00

MODE		TX channel 20325					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1747.50	-23.00	15.70	1.10	16.80	30.00	-13.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1747.50	-16.40	22.70	1.10	23.80	30.00	-6.20

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 20MHz

MODE		TX channel 20050					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-23.40	15.10	1.00	16.10	30.00	-13.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-16.20	23.00	1.00	24.00	30.00	-6.00

MODE		TX channel 20175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-23.50	15.20	1.00	16.20	30.00	-13.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1732.50	-16.50	22.70	1.00	23.70	30.00	-6.30

MODE		TX channel 20300					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-23.40	15.40	1.00	16.40	30.00	-13.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-16.40	22.80	1.00	23.80	30.00	-6.20

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 7

Channel Bandwidth: 5MHz

MODE		TX channel 20775					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2502.50	-23.40	19.10	0.70	19.80	33.00	-13.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2502.50	-21.10	21.50	0.70	22.20	33.00	-10.80

MODE		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-23.60	19.00	0.70	19.70	33.00	-13.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-21.50	21.40	0.70	22.10	33.00	-10.90

MODE		TX channel 21425					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2567.50	-23.80	18.80	0.80	19.60	33.00	-13.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2567.50	-21.60	21.40	0.80	22.20	33.00	-10.80

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 20800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2505.00	-23.60	18.90	0.70	19.60	33.00	-13.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2505.00	-21.40	21.20	0.70	21.90	33.00	-11.10

MODE		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-23.70	18.90	0.70	19.60	33.00	-13.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-21.20	21.70	0.70	22.40	33.00	-10.60

MODE		TX channel 21400					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2565.00	-23.40	19.20	0.80	20.00	33.00	-13.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2565.00	-21.40	21.60	0.80	22.40	33.00	-10.60

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 15MHz

MODE		TX channel 20825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2507.50	-23.80	18.70	0.70	19.40	33.00	-13.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2507.50	-21.20	21.40	0.70	22.10	33.00	-10.90

MODE		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-23.30	19.30	0.70	20.00	33.00	-13.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-21.30	21.60	0.70	22.30	33.00	-10.70

MODE		TX channel 21375					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2562.50	-23.70	18.90	0.80	19.70	33.00	-13.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2562.50	-21.60	21.40	0.80	22.20	33.00	-10.80

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 20MHz

MODE		TX channel 20850					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2510.00	-23.30	19.20	0.70	19.90	33.00	-13.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2510.00	-21.30	21.40	0.70	22.10	33.00	-10.90

MODE		TX channel 21100					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-23.60	19.00	0.70	19.70	33.00	-13.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2535.00	-21.40	21.50	0.70	22.20	33.00	-10.80

MODE		TX channel 21350					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2560.00	-23.30	19.20	0.80	20.00	33.00	-13.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2560.00	-21.10	21.90	0.80	22.70	33.00	-10.30

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 12

Channel Bandwidth: 1.4MHz

MODE		TX channel 23017					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	699.70	-21.1	8.3	-0.5	7.8	34.8	-27.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm))	Limit (dBm)	Margin (dB)
1	699.70	-11.2	21.1	-0.5	20.6	34.8	-14.2

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-20.6	8.8	-0.5	8.3	34.8	-26.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-10.9	21.5	-0.5	21.0	34.8	-13.8

MODE		TX channel 23173					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	715.30	-21.2	8.5	-0.5	8.0	34.8	-26.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	715.30	-10.2	22.2	-0.5	21.7	34.8	-13.1

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 3MHz

MODE		TX channel 23025					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	700.50	-21.2	8.2	-0.5	7.7	34.8	-27.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	700.50	-11.2	21.2	-0.5	20.7	34.8	-14.1

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-21.5	7.9	-0.5	7.4	34.8	-27.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-10.9	21.5	-0.5	21.0	34.8	-13.8

MODE		TX channel 23165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	714.50	-21.4	8.3	-0.5	7.8	34.8	-27.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	714.50	-10.2	22.3	-0.5	21.8	34.8	-13.0

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 5MHz

MODE		TX channel 23035					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	701.50	-21.4	8.0	-0.5	7.5	34.8	-27.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	701.50	-11.6	20.8	-0.5	20.3	34.8	-14.5

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-20.8	8.6	-0.5	8.1	34.8	-26.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-10.2	22.1	-0.5	21.6	34.8	-13.2

MODE		TX channel 23155					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-21.9	7.8	-0.5	7.3	34.8	-27.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-11.0	21.5	-0.5	21.0	34.8	-13.8

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 23060					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	704.00	-20.4	9.0	-0.5	8.5	34.8	-26.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	704.00	-10.9	21.6	-0.5	21.1	34.8	-13.7

MODE		TX channel 23095					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-20.8	8.6	-0.5	8.1	34.8	-26.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	707.50	-10.7	21.7	-0.5	21.2	34.8	-13.6

MODE		TX channel 23130					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-21.3	8.2	-0.5	7.7	34.8	-27.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-10.8	21.6	-0.5	21.1	34.8	-13.7

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 13

Channel Bandwidth: 5MHz

MODE		TX channel 23205					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	779.50	-10.50	20.60	-0.50	20.10	34.80	-14.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	779.50	-7.00	26.60	-0.50	26.10	34.80	-8.70

MODE		TX channel 23230					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-10.60	20.60	-0.50	20.10	34.80	-14.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-7.30	26.30	-0.50	25.80	34.80	-9.00

MODE		TX channel 23255					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	784.50	-10.80	20.50	-0.40	20.10	34.80	-14.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	784.50	-6.80	26.70	-0.40	26.30	34.80	-8.50

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 23230					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-10.80	20.50	-0.50	20.00	34.80	-14.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	782.00	-6.40	27.20	-0.50	26.70	34.80	-8.10

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 17

Channel Bandwidth: 5MHz

MODE		TX channel 23755					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	706.50	-14.50	15.00	-0.50	14.50	34.80	-20.30
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	706.50	-8.70	23.80	-0.50	23.30	34.80	-11.50

MODE		TX channel 23790					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-14.10	15.40	-0.50	14.90	34.80	-19.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-8.80	23.50	-0.50	23.00	34.80	-11.80

MODE		TX channel 23825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-14.50	15.20	-0.50	14.70	34.80	-20.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	713.50	-8.90	23.60	-0.50	23.10	34.80	-11.70

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 23780					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	709.00	-13.90	15.50	-0.50	15.00	34.80	-19.80
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	709.00	-8.40	23.90	-0.50	23.40	34.80	-11.40

MODE		TX channel 23790					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-14.60	14.90	-0.50	14.40	34.80	-20.40
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	710.00	-8.20	24.00	-0.50	23.50	34.80	-11.30

MODE		TX channel 23800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-14.70	14.80	-0.50	14.30	34.80	-20.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	711.00	-8.90	23.50	-0.50	23.00	34.80	-11.80

Note: ERP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 38

Channel Bandwidth: 5MHz

MODE		TX channel 37775					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2572.50	-22.50	18.70	0.80	19.50	33.00	-13.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2572.50	-20.80	21.80	0.80	22.60	33.00	-10.40

MODE		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-22.20	18.90	0.90	19.80	33.00	-13.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-19.80	23.00	0.90	23.90	33.00	-9.10

MODE		TX channel 38225					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-22.10	19.00	0.90	19.90	33.00	-13.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2617.50	-20.60	22.10	0.90	23.00	33.00	-10.00

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 37800					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2575.00	-23.00	18.20	0.80	19.00	33.00	-14.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2575.00	-21.00	21.60	0.80	22.40	33.00	-10.60

MODE		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-22.70	18.40	0.90	19.30	33.00	-13.70
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-19.70	23.10	0.90	24.00	33.00	-9.00

MODE		TX channel 38200					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-23.10	18.00	0.90	18.90	33.00	-14.10
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2615.00	-20.50	22.30	0.90	23.20	33.00	-9.80

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 15MHz

MODE		TX channel 37825					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2577.50	-22.20	19.00	0.80	19.80	33.00	-13.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2577.50	-20.40	22.30	0.80	23.10	33.00	-9.90

MODE		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-22.90	18.20	0.90	19.10	33.00	-13.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-20.10	22.70	0.90	23.60	33.00	-9.40

MODE		TX channel 38175					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2612.50	-23.00	18.10	0.90	19.00	33.00	-14.00
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2612.50	-20.00	22.80	0.90	23.70	33.00	-9.30

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 20MHz

MODE		TX channel 37850					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2580.00	-23.20	18.00	0.80	18.80	33.00	-14.20
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2580.00	-20.50	22.20	0.80	23.00	33.00	-10.00

MODE		TX channel 38000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-22.50	18.60	0.90	19.50	33.00	-13.50
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2595.00	-21.10	21.70	0.90	22.60	33.00	-10.40

MODE		TX channel 38150					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2610.00	-22.60	18.50	0.90	19.40	33.00	-13.60
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2610.00	-19.20	23.60	0.90	24.50	33.00	-8.50

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 41

Channel Bandwidth: 5MHz

MODE		TX channel 40165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2547.50	-21.9	19.2	0.8	20.0	33.0	-13.0
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2547.50	-20.2	22.0	0.8	22.8	33.0	-10.2

MODE		TX channel 40690					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-22.2	18.9	0.9	19.8	33.0	-13.2
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-20.7	22.2	0.9	23.1	33.0	-9.9

MODE		TX channel 41215					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2652.50	-22.3	18.8	0.9	19.7	33.0	-13.3
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2652.50	-19.9	22.5	0.9	23.4	33.0	-9.6

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 10MHz

MODE		TX channel 40190					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2550.00	-22.8	18.4	0.8	19.2	33.0	-13.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2550.00	-20.9	21.3	0.8	22.1	33.0	-10.9

MODE		TX channel 40690					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-22.5	18.6	0.9	19.5	33.0	-13.5
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-21.6	21.3	0.9	22.2	33.0	-10.8

MODE		TX channel 41190					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2650.00	-22.1	19.0	0.9	19.9	33.0	-13.1
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2650.00	-20.2	22.2	0.9	23.1	33.0	-9.9

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 15MHz

MODE		TX channel 40215					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2552.50	-21.8	19.4	0.8	20.2	33.0	-12.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2552.50	-20.7	21.6	0.8	22.4	33.0	-10.6

MODE		TX channel 40690					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-21.8	19.3	0.9	20.2	33.0	-12.8
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-20.8	22.1	0.9	23.0	33.0	-10.0

MODE		TX channel 41165					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2647.50	-21.9	19.2	0.9	20.1	33.0	-12.9
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2647.50	-20.1	22.3	0.9	23.2	33.0	-9.8

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Channel Bandwidth: 20MHz

MODE		TX channel 40240					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2555.00	-22.4	18.8	0.8	19.6	33.0	-13.4
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2555.00	-21.3	21.0	0.8	21.8	33.0	-11.2

MODE		TX channel 40690					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-22.1	19.0	0.9	19.9	33.0	-13.1
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2600.00	-21.4	21.5	0.9	22.4	33.0	-10.6

MODE		TX channel 41140					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2645.00	-21.6	19.5	0.9	20.4	33.0	-12.6
Antenna Polarity & Test Distance: Vertical at 3 m							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	2645.00	-19.9	22.5	0.9	23.4	33.0	-9.6

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

N/A

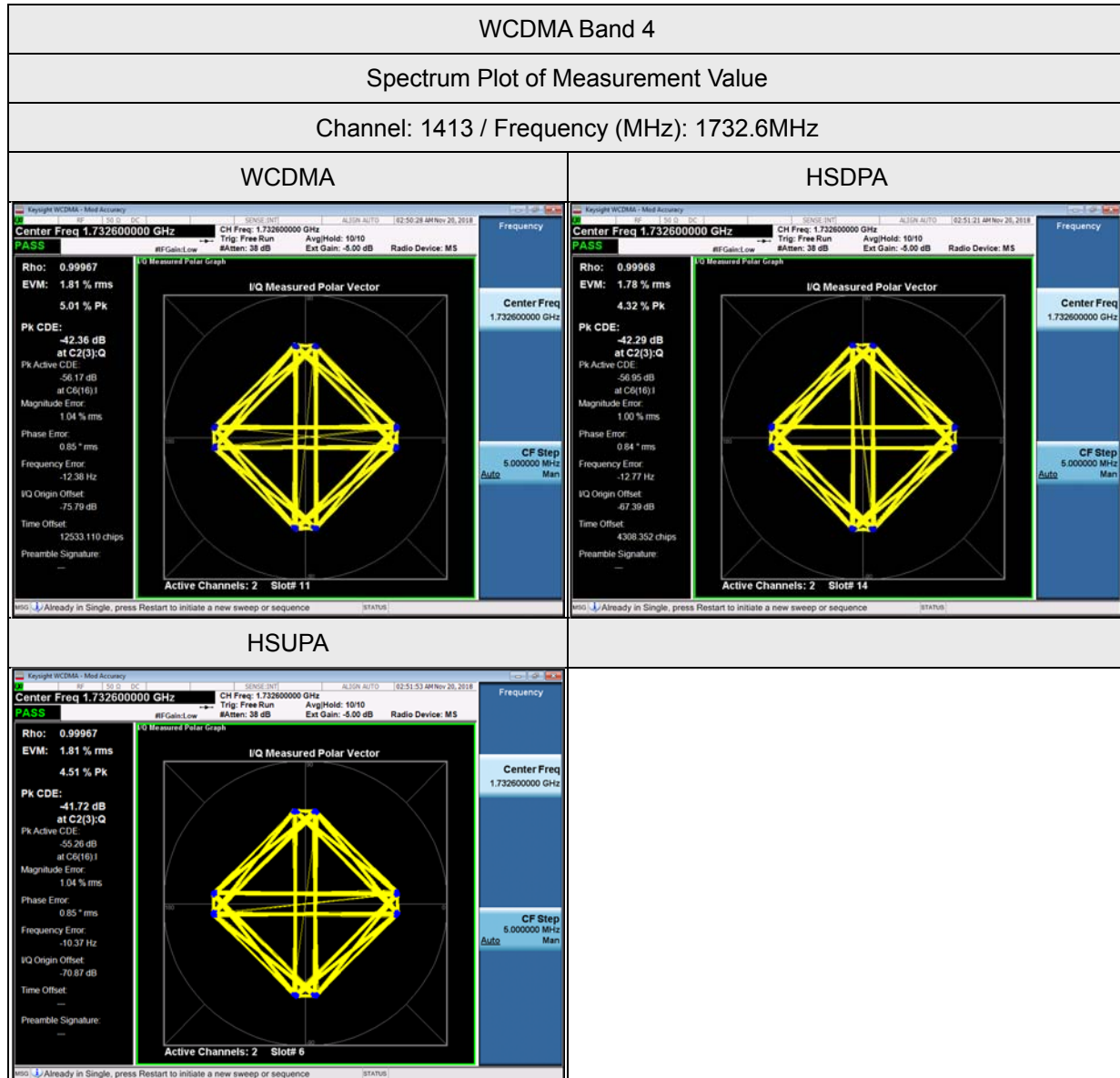
4.2.2 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector, the frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

4.2.3 Test Setup



4.2.4 Test Results

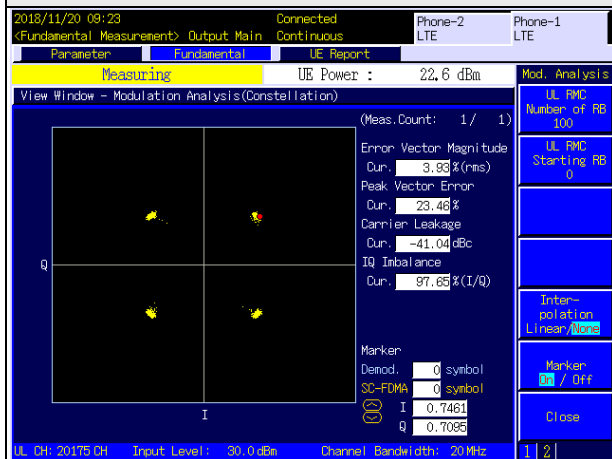


LTE Band 4

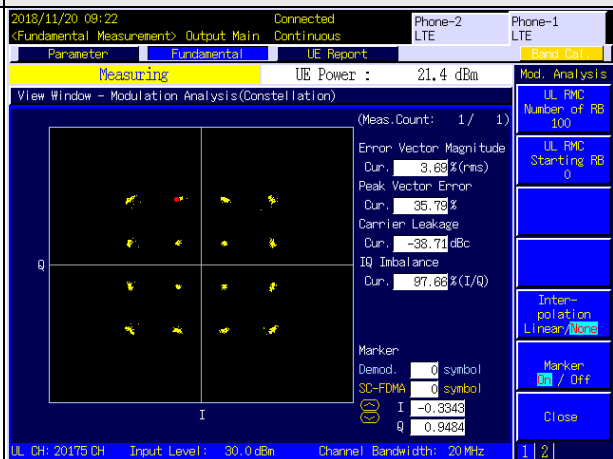
Spectrum Plot of Measurement Value

Channel: 20175 / Frequency (MHz): 1732.5MHz

QPSK



16QAM

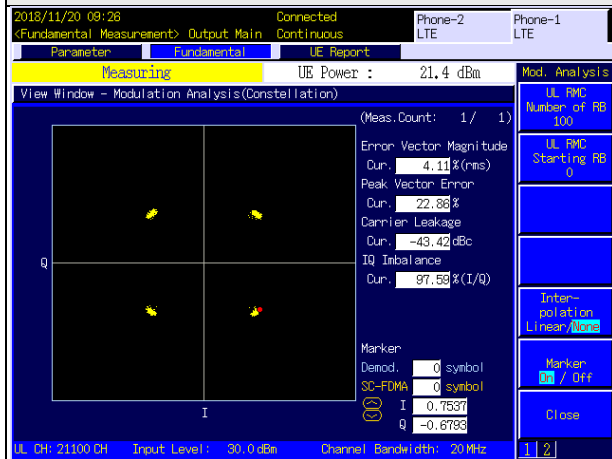


LTE Band 7

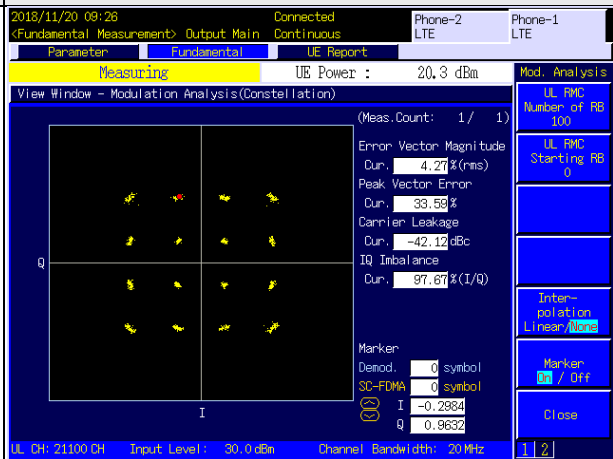
Spectrum Plot of Measurement Value

Channel: 21100 / Frequency (MHz): 2535 MHz

QPSK



16QAM

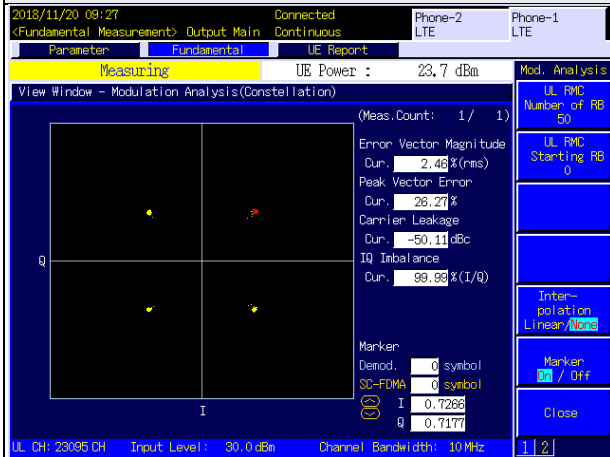


LTE Band 12

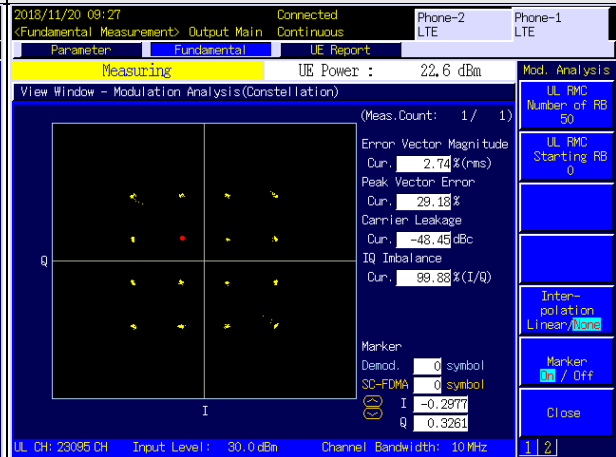
Spectrum Plot of Measurement Value

Channel: 23095 / Frequency (MHz): 707.5 MHz

QPSK



16QAM

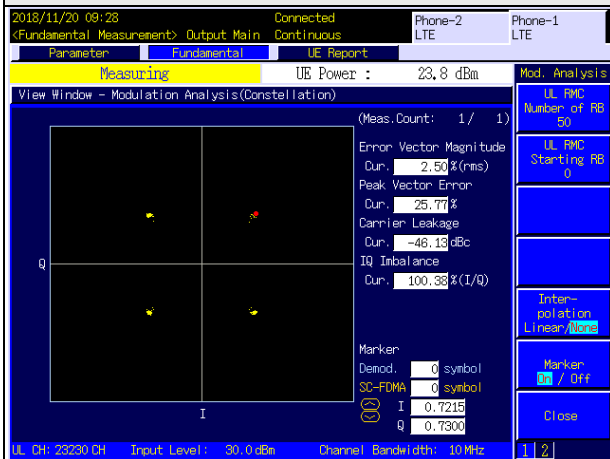


LTE Band 13

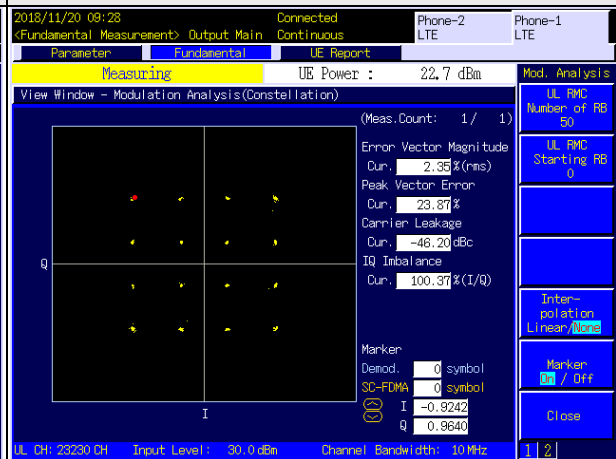
Spectrum Plot of Measurement Value

Channel: 23230 / Frequency (MHz): 782.0 MHz

QPSK



16QAM

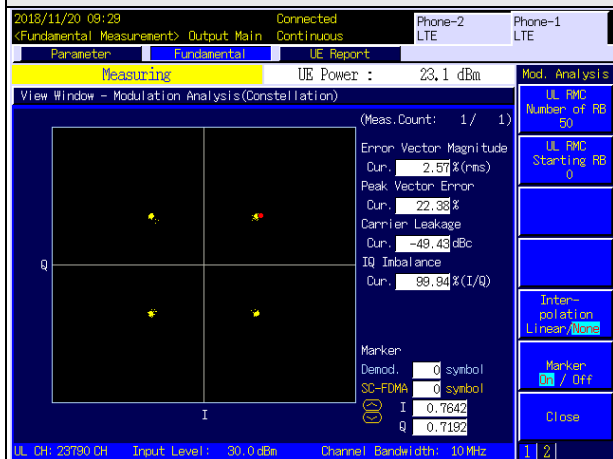


LTE Band 17

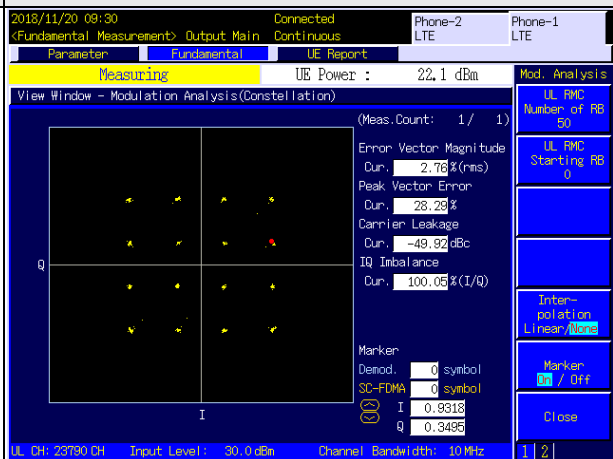
Spectrum Plot of Measurement Value

Channel: 23790 / Frequency (MHz): 710.0MHz

QPSK



16QAM

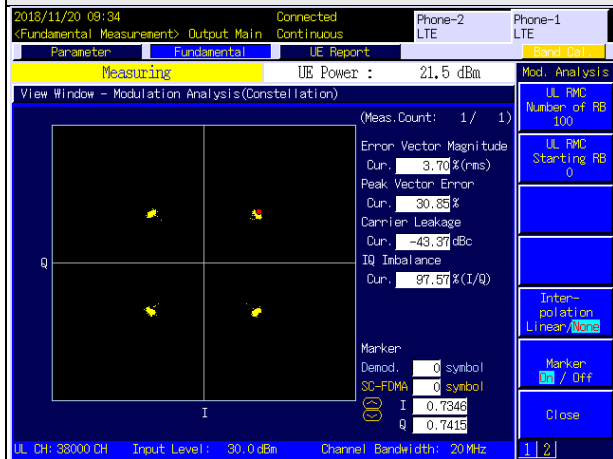


LTE Band 38

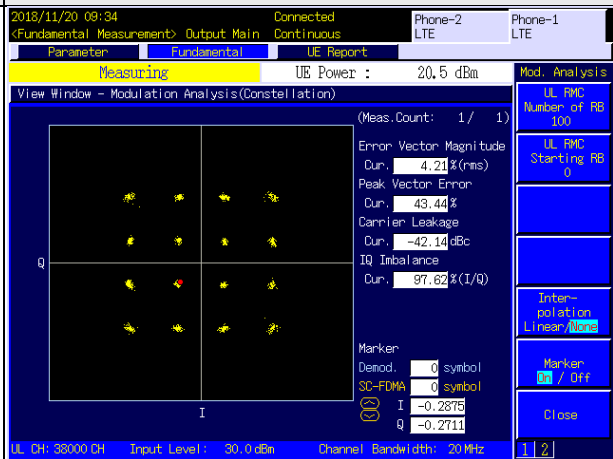
Spectrum Plot of Measurement Value

Channel: 38000 / Frequency (MHz): 2595.0 MHz

QPSK



16QAM



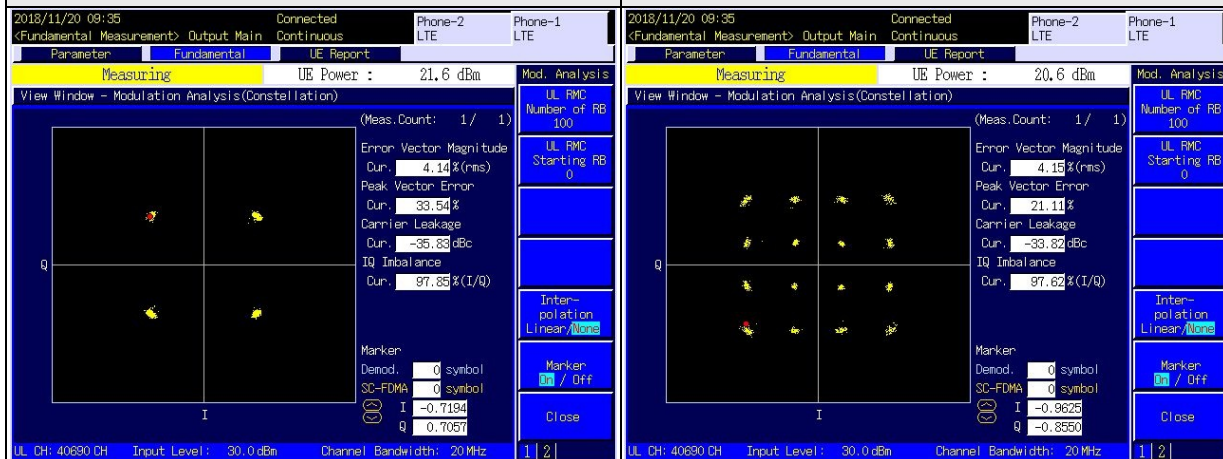
LTE Band 41

Spectrum Plot of Measurement Value

Channel: 40690 / Frequency (MHz): 2600.0 MHz

QPSK

16QAM



4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stability Measurement

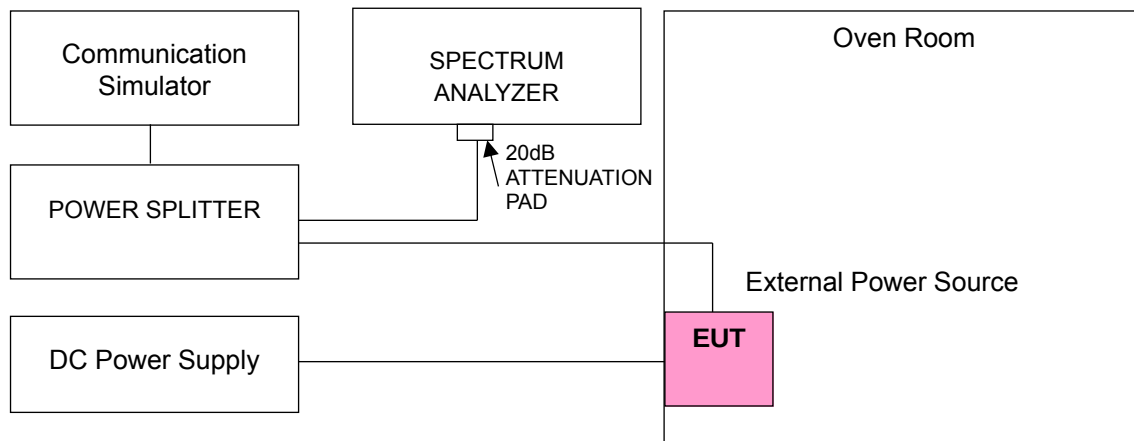
According to the FCC part 2.1055 shall be tested the frequency stability. The rule is defined that "The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block." The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with specification of EUT $-30^{\circ}\text{C} \sim 50^{\circ}\text{C}$.

4.3.2 Test Procedure

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

Note: The frequency error was recorded frequency error from the communication simulator.

4.3.3 Test Setup



4.3.4 Test Results

Frequency Error vs. Voltage

Voltage (Volts)	WCDMA Band 4			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	1712.400002	0.001	1752.600001	0.001
3.75	1712.400001	0.001	1752.600003	0.002
4.30	1712.400002	0.001	1752.600002	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	WCDMA Band 4			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.400003	0.002	1752.600003	0.002
-20	1712.400004	0.002	1752.600004	0.002
-10	1712.400004	0.002	1752.600002	0.001
0	1712.400004	0.002	1752.600001	0.001
10	1712.400002	0.001	1752.600003	0.002
20	1712.399999	-0.001	1752.599997	-0.002
30	1712.399997	-0.002	1752.599996	-0.002
40	1712.399996	-0.002	1752.599997	-0.002
50	1712.399999	-0.001	1752.599996	-0.002
60	1712.399998	-0.001	1752.599998	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	1710.700002	0.001	1754.300004	0.002
3.75	1710.700003	0.002	1754.300003	0.002
4.30	1710.700003	0.002	1754.300001	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1710.700001	0.001	1754.300004	0.002
-20	1710.700003	0.002	1754.300004	0.002
-10	1710.700002	0.001	1754.300003	0.002
0	1710.700004	0.002	1754.300003	0.002
10	1710.700004	0.002	1754.300002	0.001
20	1710.699999	-0.001	1754.299997	-0.002
30	1710.699998	-0.001	1754.299998	-0.001
40	1710.699998	-0.001	1754.299997	-0.002
50	1710.699997	-0.002	1754.299997	-0.002
60	1710.699997	-0.002	1754.299999	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	1711.500002	0.001	1753.500001	0.001
3.75	1711.500002	0.001	1753.500004	0.002
4.30	1711.500002	0.001	1753.500001	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1711.500001	0.001	1753.500002	0.001
-20	1711.500001	0.001	1753.500002	0.001
-10	1711.500003	0.002	1753.500002	0.001
0	1711.500003	0.002	1753.500004	0.002
10	1711.500003	0.002	1753.500002	0.001
20	1711.499997	-0.002	1753.499998	-0.001
30	1711.499997	-0.002	1753.499997	-0.002
40	1711.499998	-0.001	1753.499997	-0.002
50	1711.499997	-0.002	1753.499997	-0.002
60	1711.499998	-0.001	1753.499998	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	1712.500003	0.002	1752.500003	0.001
3.75	1712.500004	0.002	1752.500001	0.001
4.30	1712.500003	0.002	1752.500001	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.500003	0.002	1752.500003	0.002
-20	1712.500002	0.001	1752.500001	0.001
-10	1712.500002	0.001	1752.500002	0.001
0	1712.500003	0.002	1752.500002	0.001
10	1712.500002	0.001	1752.500002	0.001
20	1712.499999	-0.001	1752.499996	-0.002
30	1712.499998	-0.001	1752.499996	-0.002
40	1712.499998	-0.001	1752.499997	-0.002
50	1712.499999	-0.001	1752.499998	-0.001
60	1712.499998	-0.001	1752.499998	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	1715.000001	0.001	1750.000004	0.002
3.75	1715.000002	0.001	1750.000003	0.002
4.30	1715.000003	0.002	1750.000001	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1715.000001	0.001	1750.000003	0.002
-20	1715.000001	0.001	1750.000003	0.002
-10	1715.000002	0.001	1750.000004	0.002
0	1715.000004	0.002	1750.000004	0.002
10	1715.000002	0.001	1750.000004	0.002
20	1714.999999	-0.001	1749.999999	-0.001
30	1714.999999	-0.001	1749.999996	-0.002
40	1714.999999	-0.001	1749.999997	-0.002
50	1714.999998	-0.001	1749.999998	-0.001
60	1714.999999	-0.001	1749.999998	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	1717.500001	0.001	1747.500001	0.001
3.75	1717.500002	0.001	1747.500004	0.002
4.30	1717.500002	0.001	1747.500003	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1717.500003	0.002	1747.500002	0.001
-20	1717.500004	0.002	1747.500001	0.001
-10	1717.500002	0.001	1747.500003	0.002
0	1717.500003	0.002	1747.500001	0.001
10	1717.500002	0.001	1747.500003	0.002
20	1717.499997	-0.002	1747.499998	-0.001
30	1717.499997	-0.002	1747.499999	-0.001
40	1717.499997	-0.002	1747.499996	-0.002
50	1717.499999	-0.001	1747.499997	-0.002
60	1717.499999	-0.001	1747.499999	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 4			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	1720.000002	0.001	1745.000001	0.001
3.75	1720.000003	0.002	1745.000003	0.002
4.30	1720.000003	0.001	1745.000004	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 4			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1720.000001	0.001	1745.000002	0.001
-20	1720.000003	0.002	1745.000001	0.001
-10	1720.000003	0.002	1745.000002	0.001
0	1720.000002	0.001	1745.000003	0.002
10	1720.000001	0.001	1745.000004	0.002
20	1719.999998	-0.001	1744.999998	-0.001
30	1719.999998	-0.001	1744.999998	-0.001
40	1719.999999	-0.001	1744.999996	-0.002
50	1719.999996	-0.002	1744.999998	-0.001
60	1719.999997	-0.002	1744.999999	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 7			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2502.500001	0.0004	2567.500004	0.002
3.75	2502.500003	0.001	2567.500004	0.002
4.30	2502.500002	0.001	2567.500004	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 7			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2502.500002	0.001	2567.500003	0.001
-20	2502.500002	0.001	2567.500004	0.001
-10	2502.500002	0.001	2567.500003	0.001
0	2502.500003	0.001	2567.500002	0.001
10	2502.500003	0.001	2567.500003	0.001
20	2502.499998	-0.001	2567.499997	-0.001
30	2502.499997	-0.001	2567.499999	-0.001
40	2502.499997	-0.001	2567.499999	-0.0005
50	2502.499997	-0.001	2567.499998	-0.001
60	2502.499999	-0.001	2567.499996	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 7			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2505.000003	0.001	2565.000003	0.001
3.75	2505.000001	0.0004	2565.000003	0.001
4.30	2505.000003	0.001	2565.000002	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 7			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2505.000002	0.001	2565.000002	0.001
-20	2505.000002	0.001	2565.000003	0.001
-10	2505.000003	0.001	2565.000003	0.001
0	2505.000002	0.001	2565.000002	0.001
10	2505.000004	0.002	2565.000001	0.000
20	2504.999997	-0.001	2564.999997	-0.001
30	2504.999999	-0.001	2564.999999	0.0005
40	2504.999996	-0.002	2564.999997	-0.001
50	2504.999999	-0.001	2564.999998	-0.001
60	2504.999999	-0.001	2564.999998	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 7			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2507.500003	0.001	2562.500003	0.001
3.75	2507.500001	0.001	2562.500001	0.001
4.30	2507.500002	0.001	2562.500002	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 7			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2507.500001	0.0004	2562.500002	0.001
-20	2507.500004	0.001	2562.500003	0.001
-10	2507.500003	0.001	2562.500004	0.002
0	2507.500001	0.0005	2562.500002	0.001
10	2507.500003	0.001	2562.500002	0.001
20	2507.499999	-0.0004	2562.499999	-0.001
30	2507.499997	-0.001	2562.499997	-0.001
40	2507.499998	-0.001	2562.499996	-0.002
50	2507.499998	-0.001	2562.499997	-0.001
60	2507.499998	-0.001	2562.499997	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 7			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2510.000001	0.0004	2560.000002	0.001
3.75	2510.000002	0.001	2560.000003	0.001
4.30	2510.000003	0.001	2560.000003	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 7			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2510.000002	0.001	2560.000002	0.001
-20	2510.000004	0.002	2560.000002	0.001
-10	2510.000003	0.001	2560.000003	0.001
0	2510.000003	0.001	2560.000003	0.001
10	2510.000002	0.001	2560.000002	0.001
20	2509.999998	-0.001	2559.999997	-0.001
30	2509.999996	-0.002	2559.999997	-0.001
40	2509.999999	-0.001	2559.999997	-0.001
50	2509.999997	-0.001	2559.999999	-0.0005
60	2509.999999	-0.0005	2559.999997	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 12			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	699.700004	0.005	715.300001	0.002
3.75	699.700002	0.003	715.300003	0.004
4.30	699.700002	0.002	715.300003	0.003

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	699.700003	0.004	715.300003	0.004
-20	699.700002	0.003	715.300001	0.002
-10	699.700003	0.004	715.300002	0.002
0	699.700003	0.004	715.300002	0.002
10	699.700004	0.006	715.300004	0.006
20	699.699999	-0.002	715.299999	-0.002
30	699.699996	-0.006	715.299997	-0.004
40	699.699997	-0.004	715.299997	-0.004
50	699.699998	-0.004	715.299996	-0.005
60	699.699997	-0.004	715.299998	-0.003

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 12			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	700.500002	0.002	714.500002	0.002
3.75	700.500004	0.005	714.500001	0.002
4.30	700.500001	0.002	714.500001	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	700.500003	0.005	714.500001	0.002
-20	700.500003	0.004	714.500002	0.003
-10	700.500003	0.004	714.500003	0.004
0	700.500003	0.004	714.500002	0.003
10	700.500002	0.002	714.500003	0.004
20	700.499998	-0.003	714.499999	-0.002
30	700.499997	-0.004	714.499996	-0.005
40	700.499999	-0.001	714.499997	-0.004
50	700.499999	-0.001	714.499998	-0.003
60	700.499996	-0.005	714.499999	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 12			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	701.500001	0.002	713.500004	0.005
3.75	701.500003	0.004	713.500003	0.004
4.30	701.500002	0.003	713.500003	0.004

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	701.500001	0.001	713.500002	0.002
-20	701.500002	0.003	713.500003	0.004
-10	701.500001	0.002	713.500002	0.003
0	701.500003	0.004	713.500002	0.003
10	701.500003	0.004	713.500003	0.004
20	701.499998	-0.003	713.499998	-0.003
30	701.499996	-0.005	713.499998	-0.002
40	701.499997	-0.004	713.499998	-0.003
50	701.499997	-0.004	713.499998	-0.003
60	701.499998	-0.003	713.499996	-0.005

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 12			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	704.000002	0.003	711.000001	0.002
3.75	704.000003	0.004	711.000003	0.004
4.30	704.000003	0.004	711.000004	0.005

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 12			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	704.000003	0.004	711.000003	0.005
-20	704.000002	0.003	711.000002	0.003
-10	704.000002	0.002	711.000003	0.005
0	704.000002	0.002	711.000003	0.004
10	704.000003	0.004	711.000002	0.003
20	703.999996	-0.005	710.999999	-0.001
30	703.999997	-0.004	710.999998	-0.003
40	703.999998	-0.003	710.999997	-0.005
50	703.999998	-0.004	710.999996	-0.005
60	703.999999	-0.002	710.999998	-0.003

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 13			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	779.500002	0.002	784.500001	0.001
3.75	779.500003	0.004	784.500002	0.003
4.30	779.500004	0.005	784.500001	0.002

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 13			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	779.500003	0.003	784.500002	0.003
-20	779.500002	0.002	784.500001	0.002
-10	779.500003	0.003	784.500002	0.003
0	779.500002	0.003	784.500004	0.005
10	779.500002	0.002	784.500003	0.003
20	779.499998	-0.003	784.499998	-0.003
30	779.499997	-0.004	784.499999	-0.002
40	779.499998	-0.003	784.499997	-0.003
50	779.499997	-0.004	784.499999	-0.001
60	779.499996	-0.005	784.499998	-0.003

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 13	
	Channel Bandwidth: 10 MHz	
	Frequency (MHz)	Frequency Error (ppm)
3.20	782.000003	0.004
3.75	782.000003	0.004
4.30	782.000001	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 13	
	Channel Bandwidth: 10 MHz	
	Frequency (MHz)	Frequency Error (ppm)
-30	782.000004	0.004
-20	782.000003	0.004
-10	782.000004	0.005
0	782.000004	0.005
10	782.000004	0.005
20	781.999996	-0.005
30	781.999998	-0.002
40	781.999996	-0.005
50	781.999997	-0.004
60	781.999997	-0.004

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 17			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	706.500003	0.004	713.500003	0.004
3.75	706.500001	0.002	713.500002	0.003
4.30	706.500002	0.002	713.500003	0.004

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 17			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	706.500001	0.002	713.500003	0.004
-20	706.500004	0.005	713.500004	0.005
-10	706.500001	0.002	713.500002	0.003
0	706.500003	0.004	713.500001	0.002
10	706.500002	0.003	713.500003	0.004
20	706.499996	-0.006	713.499998	-0.002
30	706.499996	-0.005	713.499999	-0.001
40	706.499997	-0.004	713.499997	-0.004
50	706.499998	-0.003	713.499998	-0.003
60	706.499998	-0.003	713.499998	-0.003

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 17			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	709.000001	0.001	711.000002	0.003
3.75	709.000002	0.003	711.000004	0.005
4.30	709.000003	0.005	711.000004	0.005

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 17			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	709.000002	0.003	711.000002	0.003
-20	709.000003	0.005	711.000004	0.005
-10	709.000004	0.005	711.000002	0.003
0	709.000001	0.002	711.000003	0.004
10	709.000003	0.004	711.000002	0.002
20	708.999997	-0.004	710.999999	-0.002
30	708.999999	-0.001	710.999998	-0.002
40	708.999997	-0.004	710.999998	-0.003
50	708.999996	-0.005	710.999997	-0.004
60	708.999998	-0.004	710.999997	-0.004

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 38			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2572.500001	0.0004	2617.500003	0.001
3.75	2572.500004	0.001	2617.500002	0.001
4.30	2572.500001	0.001	2617.500002	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 38			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2572.500004	0.001	2617.500002	0.001
-20	2572.500003	0.001	2617.500002	0.001
-10	2572.500002	0.001	2617.500002	0.001
0	2572.500002	0.001	2617.500004	0.001
10	2572.500003	0.001	2617.500004	0.002
20	2572.499996	-0.001	2617.499998	-0.001
30	2572.499997	-0.001	2617.499999	-0.001
40	2572.499999	-0.0005	2617.499998	-0.001
50	2572.499998	-0.001	2617.499996	-0.001
60	2572.499996	-0.002	2617.499998	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 38			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2575.000003	0.001	2615.000004	0.001
3.75	2575.000002	0.001	2615.000001	0.0005
4.30	2575.000002	0.001	2615.000004	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 38			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2575.000002	0.001	2615.000002	0.001
-20	2575.000002	0.001	2615.000001	0.0004
-10	2575.000004	0.001	2615.000002	0.001
0	2575.000001	0.0005	2615.000003	0.001
10	2575.000002	0.001	2615.000001	0.0004
20	2574.999997	-0.001	2614.999996	-0.002
30	2574.999998	-0.001	2614.999999	-0.0004
40	2574.999998	-0.001	2614.999997	-0.001
50	2574.999999	-0.001	2614.999998	-0.001
60	2574.999999	-0.001	2614.999999	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 38			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2577.500003	0.001	2612.500003	0.001
3.75	2577.500003	0.001	2612.500001	0.0005
4.30	2577.500001	0.0004	2612.500003	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 38			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2577.500003	0.001	2612.500002	0.001
-20	2577.500003	0.001	2612.500004	0.001
-10	2577.500003	0.001	2612.500004	0.001
0	2577.500002	0.001	2612.500001	0.001
10	2577.500002	0.001	2612.500003	0.001
20	2577.499996	-0.002	2612.499998	-0.001
30	2577.499998	-0.001	2612.499997	-0.001
40	2577.499997	-0.001	2612.499999	-0.0005
50	2577.499998	-0.001	2612.499997	-0.001
60	2577.499997	-0.001	2612.499999	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 38			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2580.000001	0.001	2610.000003	0.001
3.75	2580.000004	0.001	2610.000003	0.001
4.30	2580.000002	0.001	2610.000000	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 38			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2580.000004	0.002	2610.000004	0.002
-20	2580.000001	0.0004	2610.000001	0.0004
-10	2580.000002	0.001	2610.000003	0.001
0	2580.000002	0.001	2610.000003	0.001
10	2580.000004	0.001	2610.000002	0.001
20	2579.999997	-0.001	2609.999996	-0.001
30	2579.999998	-0.001	2609.999999	-0.0005
40	2579.999996	-0.001	2609.999996	-0.001
50	2579.999997	-0.001	2609.999999	-0.001
60	2579.999999	-0.001	2609.999999	-0.0005

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2547.500004	0.001	2652.500004	0.002
3.75	2547.500003	0.001	2652.500004	0.001
4.30	2547.500002	0.001	2652.500001	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 41			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2547.500004	0.002	2652.500001	0.001
-20	2547.500002	0.001	2652.500002	0.001
-10	2547.500003	0.001	2652.500002	0.001
0	2547.500003	0.001	2652.500003	0.001
10	2547.500002	0.001	2652.500004	0.001
20	2547.499999	0.000	2652.499998	-0.001
30	2547.499997	-0.001	2652.499997	-0.001
40	2547.499998	-0.001	2652.499998	-0.001
50	2547.499997	-0.001	2652.499998	-0.001
60	2547.499998	-0.001	2652.499997	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2550.000002	0.001	2650.000001	0.0005
3.75	2550.000004	0.002	2650.000002	0.001
4.30	2550.000001	0.001	2650.000004	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 41			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2550.000003	0.001	2650.000003	0.001
-20	2550.000002	0.001	2650.000001	0.001
-10	2550.000001	0.0004	2650.000003	0.001
0	2550.000001	0.0004	2650.000002	0.001
10	2550.000002	0.001	2650.000004	0.001
20	2549.999998	-0.001	2649.999997	-0.001
30	2549.999997	-0.001	2649.999997	-0.001
40	2549.999998	-0.001	2649.999998	-0.001
50	2549.999998	-0.001	2649.999999	-0.001
60	2549.999997	-0.001	2649.999996	-0.002

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2552.500004	0.002	2647.500001	0.0004
3.75	2552.500002	0.001	2647.500003	0.001
4.30	2552.500003	0.001	2647.500003	0.001

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 41			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2552.500002	0.001	2647.500002	0.001
-20	2552.500003	0.001	2647.500002	0.001
-10	2552.500004	0.002	2647.500003	0.001
0	2552.500003	0.001	2647.500002	0.001
10	2552.500003	0.001	2647.500002	0.001
20	2552.499997	-0.001	2647.499999	-0.0004
30	2552.499998	-0.001	2647.499998	-0.001
40	2552.499998	-0.001	2647.499999	-0.001
50	2552.499999	-0.001	2647.499998	-0.001
60	2552.499998	-0.001	2647.499998	-0.001

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.20	2555.000001	0.001	2645.000002	0.001
3.75	2555.000003	0.001	2645.000001	0.0004
4.30	2555.000002	0.001	2645.000001	0.0004

Note: The applicant defined the normal working voltage is from 3.20Vdc to 4.30Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 41			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2555.000002	0.001	2645.000003	0.001
-20	2555.000002	0.001	2645.000003	0.001
-10	2555.000002	0.001	2645.000004	0.001
0	2555.000002	0.001	2645.000004	0.001
10	2555.000002	0.001	2645.000002	0.001
20	2554.999999	-0.0005	2644.999998	-0.001
30	2554.999997	-0.001	2644.999999	-0.001
40	2554.999997	-0.001	2644.999997	-0.001
50	2554.999999	-0.0004	2644.999999	-0.0004
60	2554.999998	-0.001	2644.999996	-0.001

4.4 Emission Bandwidth Measurement

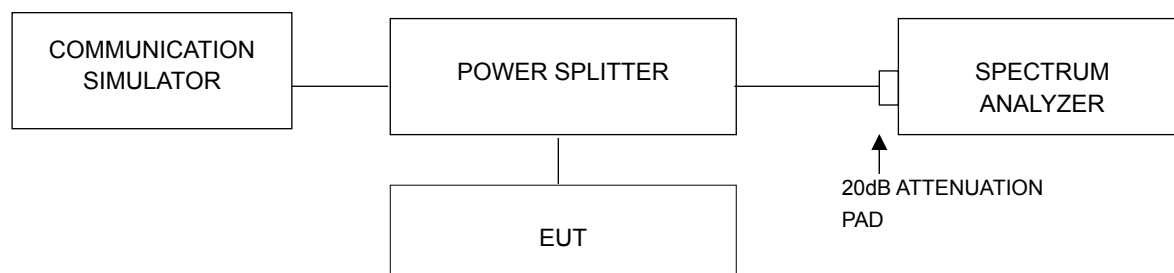
4.4.1 Limits of Emission Bandwidth Measurement

According to FCC 27.53(m)(6) specified that emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

4.4.2 Test Procedure

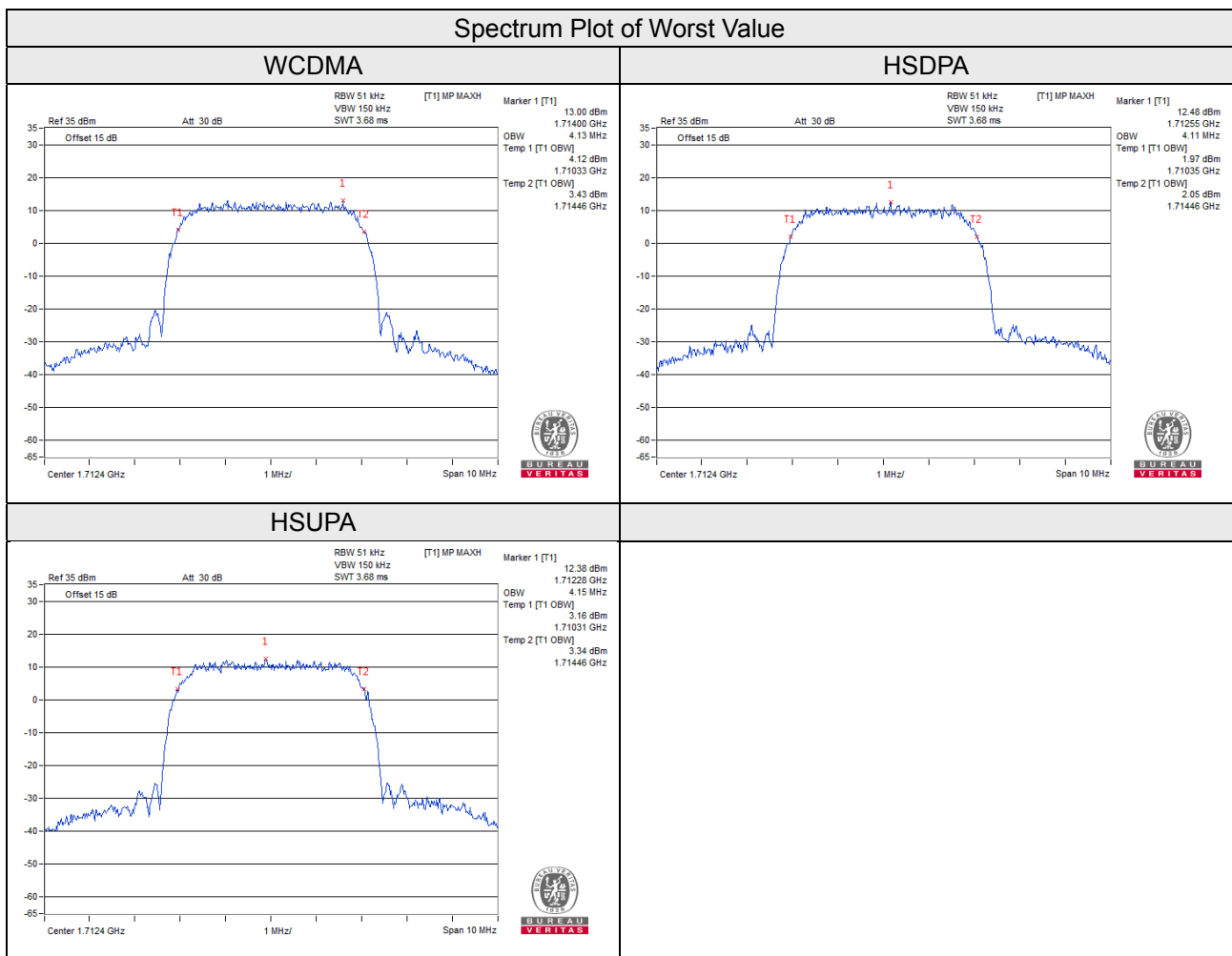
The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW = 30kHz and VBW = 100kHz (Channel Bandwidth: 1.4MHz), RBW = 51kHz and VBW = 150kHz (Channel Bandwidth: 3MHz and 5MHz), RBW = 100kHz and VBW = 300kHz (Channel Bandwidth: 10MHz), RBW = 200kHz and VBW = 620kHz (Channel Bandwidth: 15MHz) and RBW = 430kHz and VBW = 1.2MHz (Channel Bandwidth: 20MHz). The 26dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 26dB.

4.4.3 Test Setup



4.4.4 Test Result

WCDMA Band 4				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		WCDMA	HSDPA	HSUPA
1312	1712.4	4.13	4.11	4.15
1413	1732.6	4.13	4.11	4.13
1513	1752.6	4.13	4.11	4.13



LTE Band 4, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
19957	1710.7	1.25	1.27	1.089	1.090
20175	1732.5	1.26	1.28	1.088	1.091
20393	1754.3	1.28	1.30	1.090	1.091

LTE Band 4, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
19965	1711.5	2.93	2.94	2.698	2.696
20175	1732.5	2.93	2.93	2.699	2.695
20385	1753.5	2.92	2.95	2.700	2.697

LTE Band 4, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
19975	1712.5	4.81	4.81	4.484	4.486
20175	1732.5	4.81	4.81	4.480	4.482
20375	1752.5	4.83	4.83	4.484	4.488

LTE Band 4, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20000	1715.0	9.49	9.51	8.953	8.958
20175	1732.5	9.50	9.52	8.948	8.949
20350	1750.0	9.52	9.51	8.961	8.956

LTE Band 4, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20025	1717.5	14.23	14.23	13.428	13.416
20175	1732.5	14.22	14.21	13.398	13.392
20325	1747.5	14.25	14.25	13.438	13.421

LTE Band 4, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20050	1720.0	19.01	19.02	17.895	17.919
20175	1732.5	18.99	18.97	17.850	17.862
20300	1745.0	19.03	19.03	17.913	17.928

26dBc Bandwidth

Spectrum Plot of Worst Value

1.4MHz / 16QAM



3MHz / 16QAM



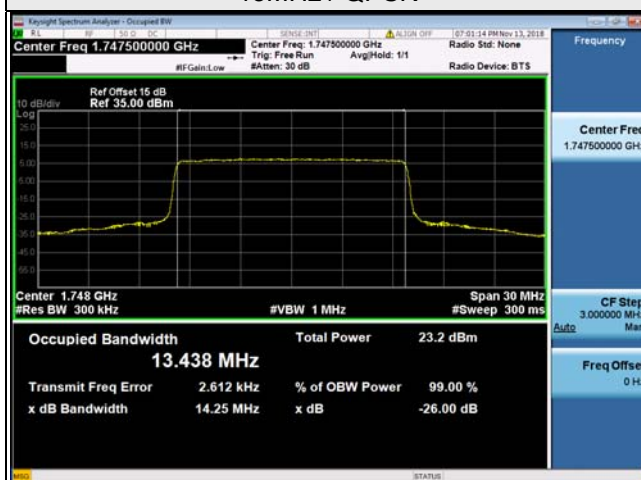
5MHz / QPSK



10MHz / 16QAM



15MHz / QPSK



20MHz / QPSK



Occupied Bandwidth Spectrum Plot of Worst Value

1.4MHz / 16QAM



3MHz / QPSK



5MHz / 16QAM



10MHz / QPSK



15MHz / QPSK



20MHz / 16QAM



LTE Band 7, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20775	2502.5	4.81	4.81	4.479	4.483
21100	2535.0	4.82	4.80	4.481	4.481
21425	2567.5	4.80	4.82	4.481	4.482

LTE Band 7, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20800	2505.0	9.52	9.51	8.946	8.948
21100	2535.0	9.51	9.51	8.954	8.958
21400	2565.0	9.50	9.53	8.953	8.950

LTE Band 7, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20825	2507.5	14.23	14.22	13.424	13.405
21100	2535.0	14.24	14.24	13.437	13.417
21375	2562.5	14.23	14.22	13.430	13.417

LTE Band 7, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20850	2510.0	19.00	19.02	17.873	17.887
21100	2535.0	19.01	19.01	17.891	17.919
21350	2560.0	19.00	19.00	17.892	17.918

26dBc Bandwidth

Spectrum Plot of Worst Value

5MHz / QPSK



10MHz / 16QAM



15MHz / QPSK



20MHz / 16QAM



Occupied Bandwidth Spectrum Plot of Worst Value

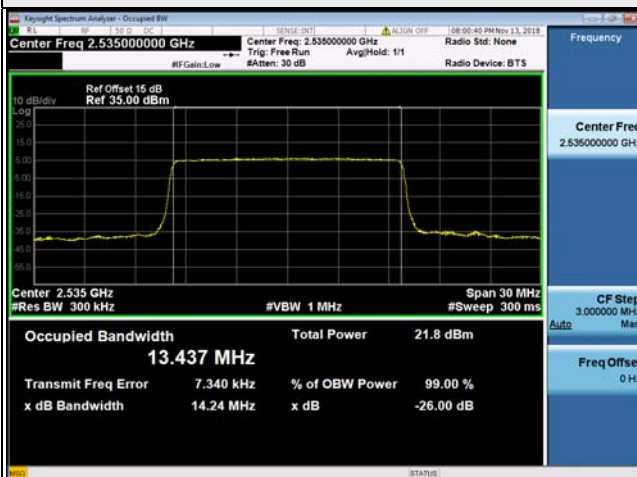
5MHz / 16QAM



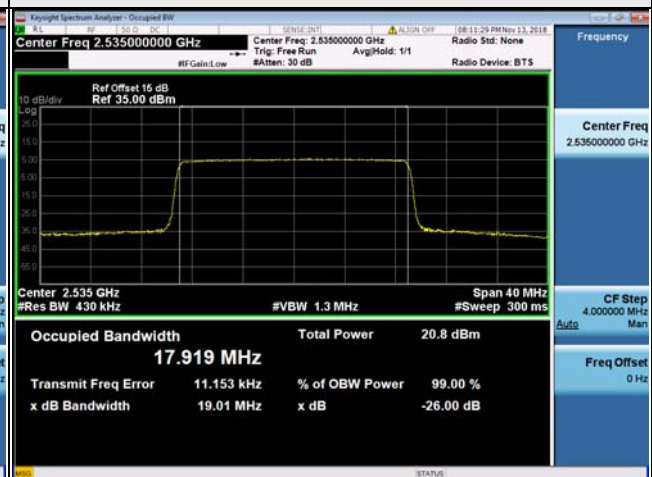
10MHz / 16QAM



15MHz / QPSK



20MHz / 16QAM



LTE Band 12, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23017	699.7	1.25	1.16	1.088	1.088
23095	707.5	1.26	1.25	1.088	1.090
23173	715.3	1.25	1.25	1.087	1.090

LTE Band 12, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23025	700.5	2.91	2.91	2.698	2.694
23095	707.5	2.91	2.92	2.702	2.696
23165	714.5	2.92	2.92	2.698	2.694

LTE Band 12, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23035	701.5	4.78	4.78	4.473	4.476
23095	707.5	4.80	4.81	4.482	4.485
23155	713.5	4.79	4.79	4.478	4.478

LTE Band 12, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23060	704	9.49	9.50	8.930	8.940
23095	707.5	9.53	9.51	8.969	8.972
23130	711	9.51	9.52	8.958	8.959

26dBc Bandwidth

Spectrum Plot of Worst Value

1.4MHz / QPSK



3MHz / 16QAM



5MHz / 16QAM



10MHz / QPSK



Occupied Bandwidth Spectrum Plot of Worst Value

1.4MHz / 16QAM



3MHz / QPSK



5MHz / 16QAM



10MHz / 16QAM



LTE Band 13, Channel Bandwidth 5MHz

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23205	779.5	4.78	4.78	4.479	4.478
23230	782.0	4.78	4.80	4.480	4.482
23255	784.5	4.80	4.80	4.483	4.485

LTE Band 13, Channel Bandwidth 10MHz

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23230	782.0	9.52	9.51	8.958	8.957

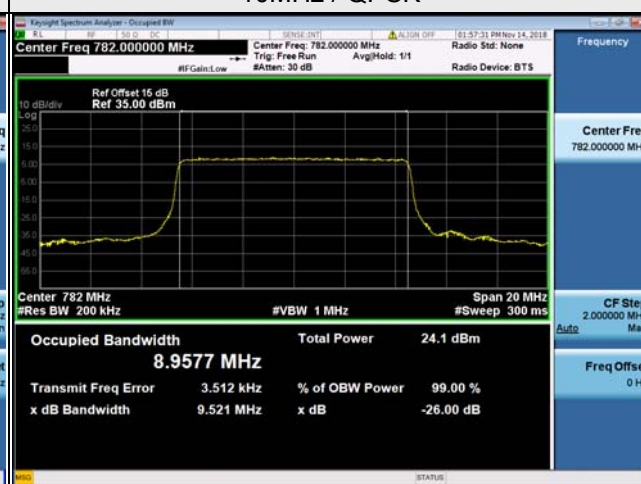
26dBc Bandwidth

Spectrum Plot of Worst Value

5MHz / QPSK



10MHz / QPSK



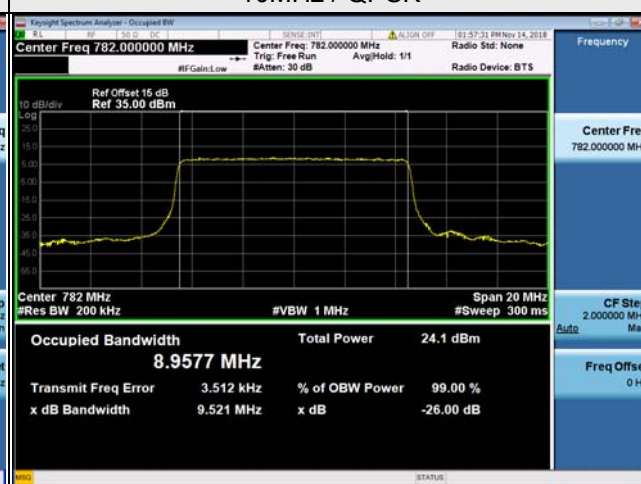
Occupied Bandwidth

Spectrum Plot of Worst Value

5MHz / 16QAM



10MHz / QPSK



LTE Band 17, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23755	706.5	4.81	4.79	4.482	4.487
23790	710.0	4.80	4.79	4.483	4.488
23825	713.5	4.80	4.78	4.474	4.478

LTE Band 17, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23780	709.0	9.51	9.51	8.969	8.971
23790	710.0	9.50	9.53	8.960	8.969
23800	711.0	9.50	9.52	8.958	8.964

26dBc Bandwidth

Spectrum Plot of Worst Value

5MHz / QPSK



10MHz / 16QAM



Occupied Bandwidth

Spectrum Plot of Worst Value

5MHz / 16QAM



10MHz / 16QAM



LTE Band 38, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
37775	2572.5	4.83	4.82	4.482	4.479
38000	2595.0	4.85	4.82	4.484	4.481
38225	2617.5	4.81	4.81	4.485	4.481

LTE Band 38, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
37800	2575.0	9.48	9.52	8.936	8.948
38000	2595.0	9.47	9.51	8.938	8.956
38200	2615.0	9.46	9.50	8.942	8.948

LTE Band 38, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
37825	2577.5	14.24	14.25	13.414	13.409
38000	2595.0	14.25	14.20	13.435	13.426
38175	2612.5	14.25	14.23	13.427	13.422

LTE Band 38, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
37850	2580.0	19.00	18.99	17.881	17.877
38000	2595.0	19.02	19.02	17.904	17.901
38150	2610.0	19.01	19.01	17.894	17.890

26dBc Bandwidth

Spectrum Plot of Worst Value

5MHz / QPSK



10MHz / 16QAM



15MHz / 16QAM



20MHz / 16QAM



Occupied Bandwidth Spectrum Plot of Worst Value

5MHz / QPSK



10MHz / 16QAM



15MHz / QPSK



20MHz / QPSK



LTE Band 41, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
40165	2547.5	4.82	4.81	4.480	4.484
40690	2600.0	4.82	4.82	4.485	4.482
41215	2652.5	4.82	4.84	4.482	4.484

LTE Band 41, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
40190	2550.0	9.49	9.51	8.942	8.960
40690	2600.0	9.48	9.50	8.943	8.960
41190	2650.0	9.47	9.52	8.945	8.964

LTE Band 41, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
40215	2552.5	14.25	14.23	13.430	13.414
40690	2600.0	14.26	14.24	13.426	13.424
41165	2647.5	14.25	14.25	13.430	13.419

LTE Band 41, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)		Occupied Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
40240	2555.0	19.01	19.00	17.892	17.886
40690	2600.0	19.03	19.01	17.904	17.898
41140	2645.0	19.00	19.00	17.903	17.896

26dBc Bandwidth

Spectrum Plot of Worst Value

5MHz / 16QAM



10MHz / 16QAM



15MHz / QPSK



20MHz / QPSK



Occupied Bandwidth Spectrum Plot of Worst Value

5MHz / QPSK



10MHz / 16QAM



15MHz / QPSK



20MHz / QPSK



4.5 Channel Edge Measurement

4.5.1 Limits of Band Edge Measurement

For WCDMA Band 4, LTE Band 4

According to FCC 27.53(h) for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

For LTE Band 7, 38, 41

According to FCC 27.53(l)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a 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. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

For LTE Band 12

According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

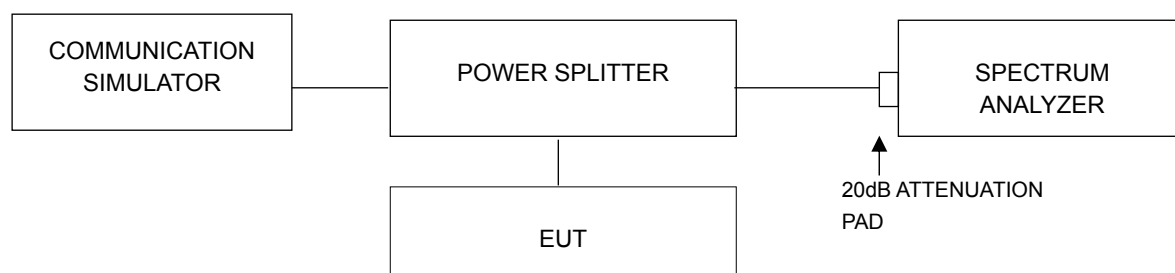
For LTE Band 13

According to FCC 27.53(c)(2) for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

For LTE Band 17

According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

4.5.2 Test Setup

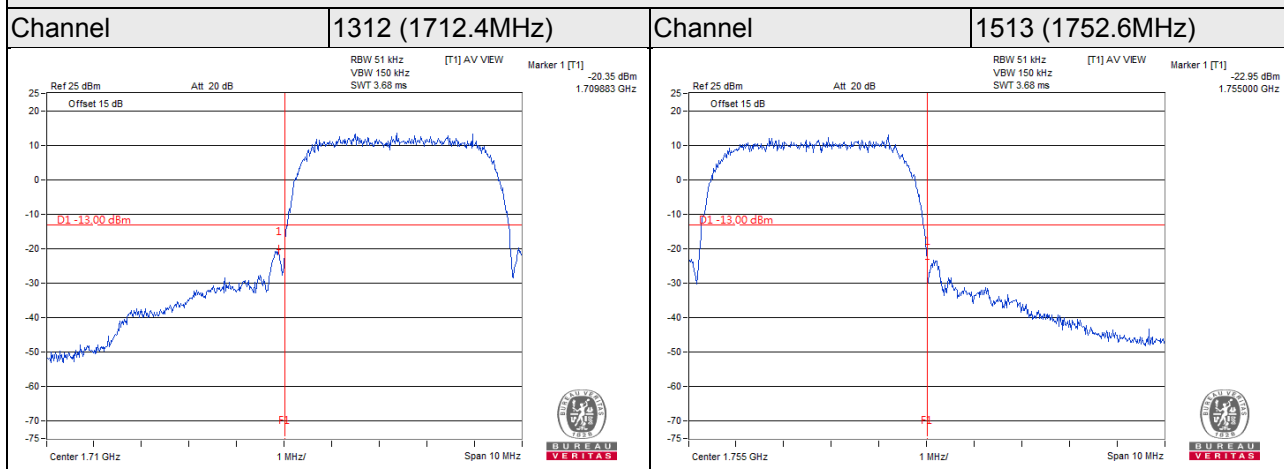


4.5.3 Test Procedures

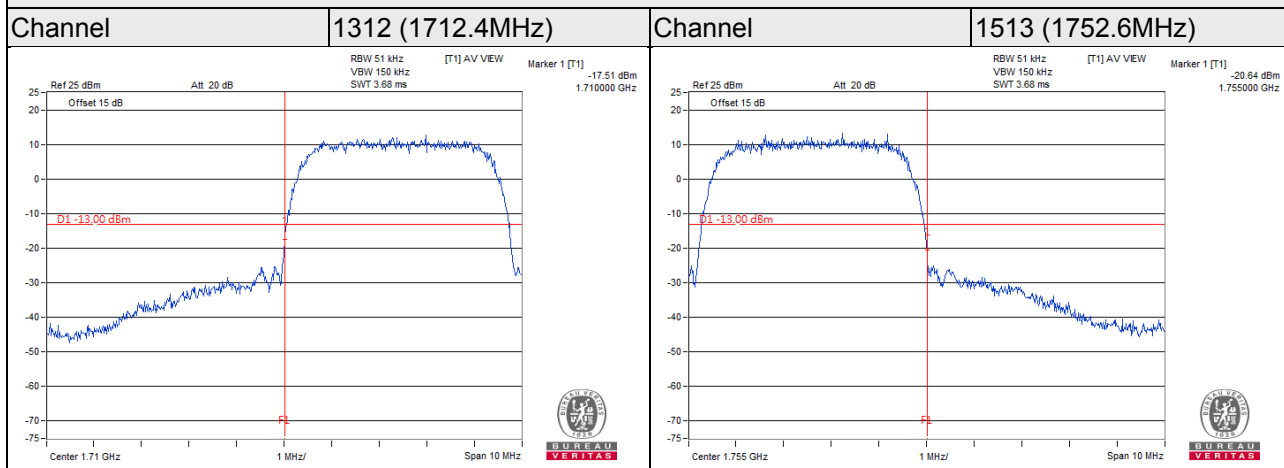
- a. The EUT was set up for the rated peak power. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels: low, middle and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1.5MHz. RBW = 15kHz and VBW = 51kHz (Channel Bandwidth: 1.4MHz), RBW = 30kHz and VBW = 100kHz (Channel Bandwidth: 3MHz), RBW = 62kHz and VBW = 200kHz (Channel Bandwidth: 5MHz), RBW = 100kHz and VBW = 300kHz (Channel Bandwidth: 10MHz), RBW = 150kHz and VBW = 470kHz (Channel Bandwidth: 15MHz) and RBW = 200kHz and VBW = 1MHz (Channel Bandwidth: 20MHz).
- c. Record the max trace plot into the test report.

4.5.4 Test Results

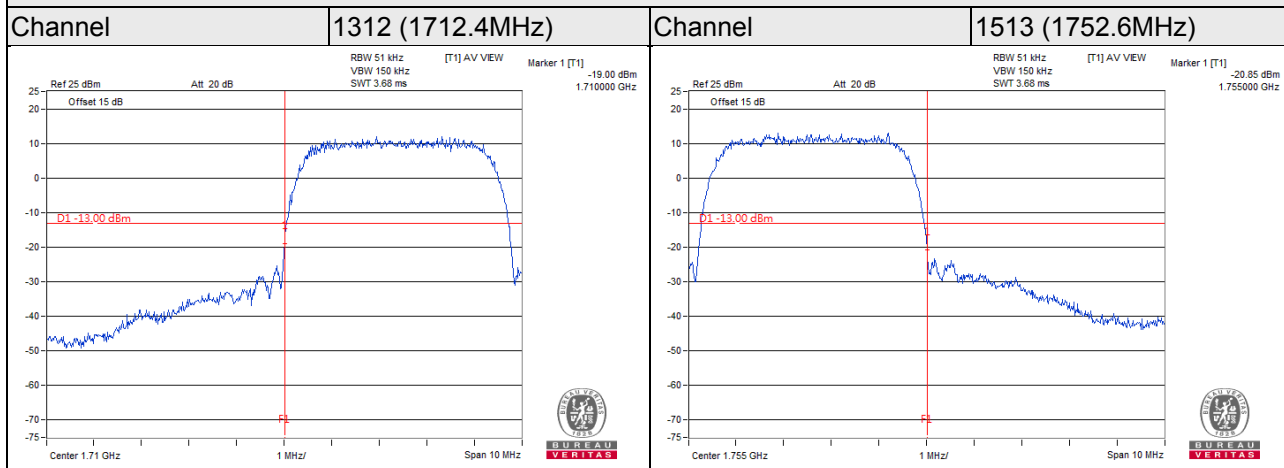
WCDMA Band 4



HSDPA



HSUPA



LTE Band 4

Channel Bandwidth: 1.4MHz

Channel 19957
(1710.7MHz)

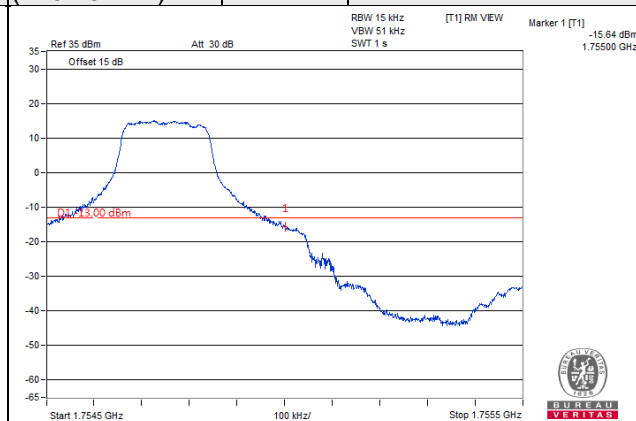
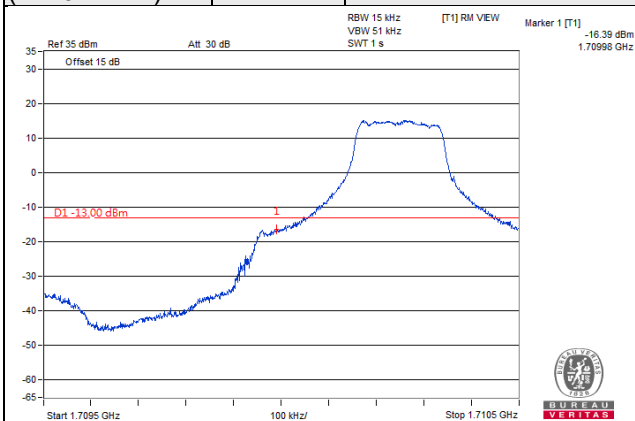
QPSK

1 RB / 0 RB Offset

Channel 20393
(1754.3MHz)

QPSK

1 RB / 5 RB Offset



Channel 19957
(1710.7MHz)

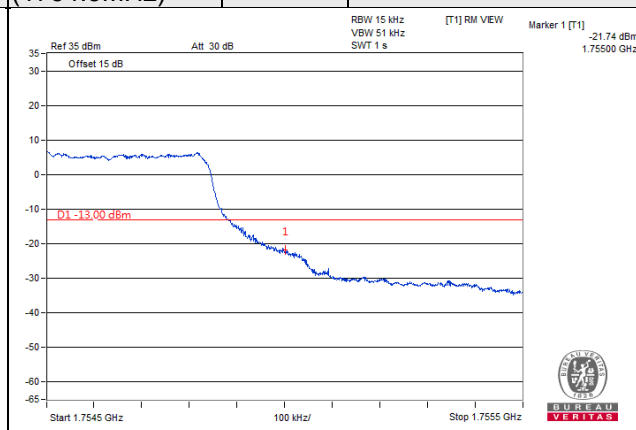
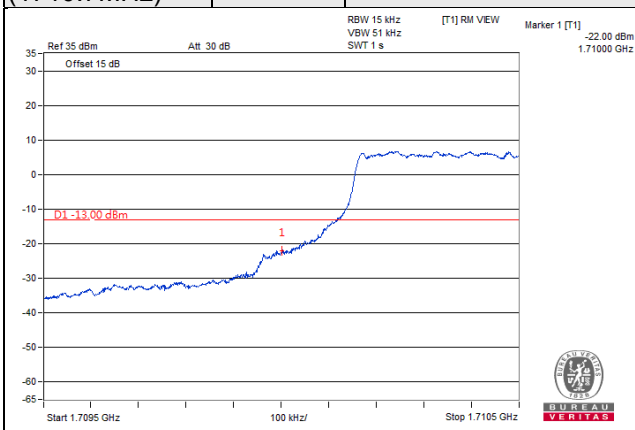
QPSK

6 RB / 0 RB Offset

Channel 20393
(1754.3MHz)

QPSK

6 RB / 0 RB Offset



Channel Bandwidth: 3MHz

Channel 19965
(1711.5MHz)

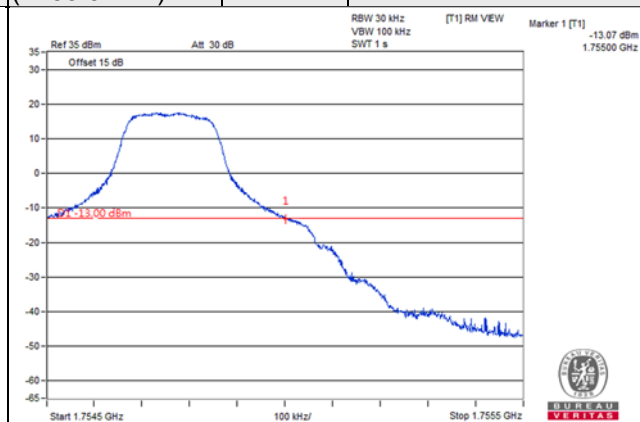
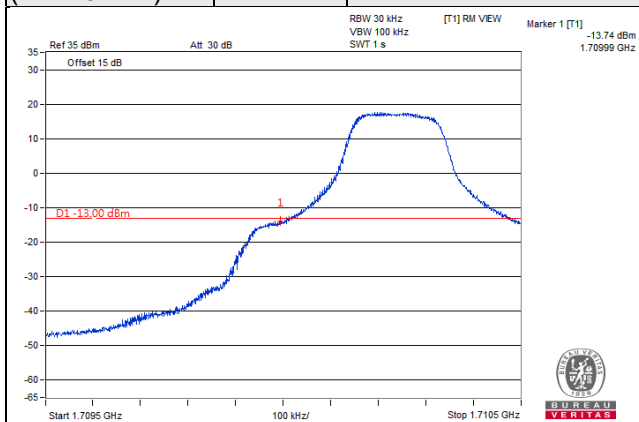
QPSK

1 RB / 0 RB Offset

Channel 20385
(1753.5MHz)

QPSK

1 RB / 14 RB Offset



Channel 19965
(1711.5MHz)

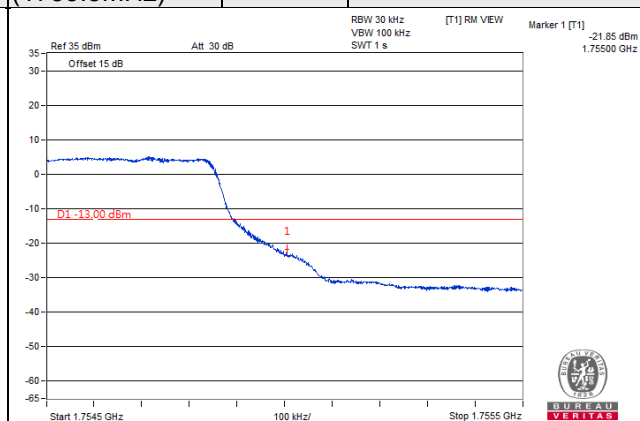
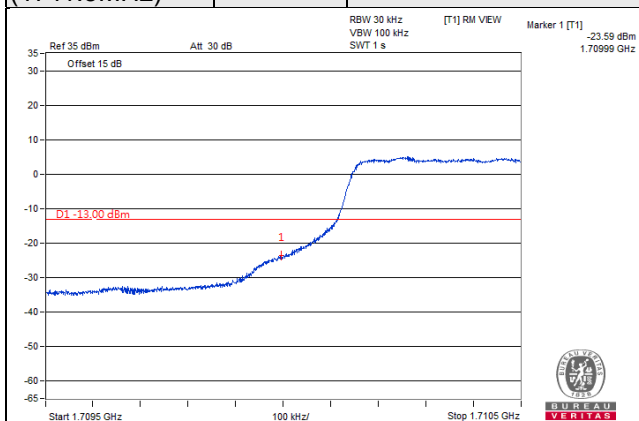
QPSK

15 RB / 0 RB Offset

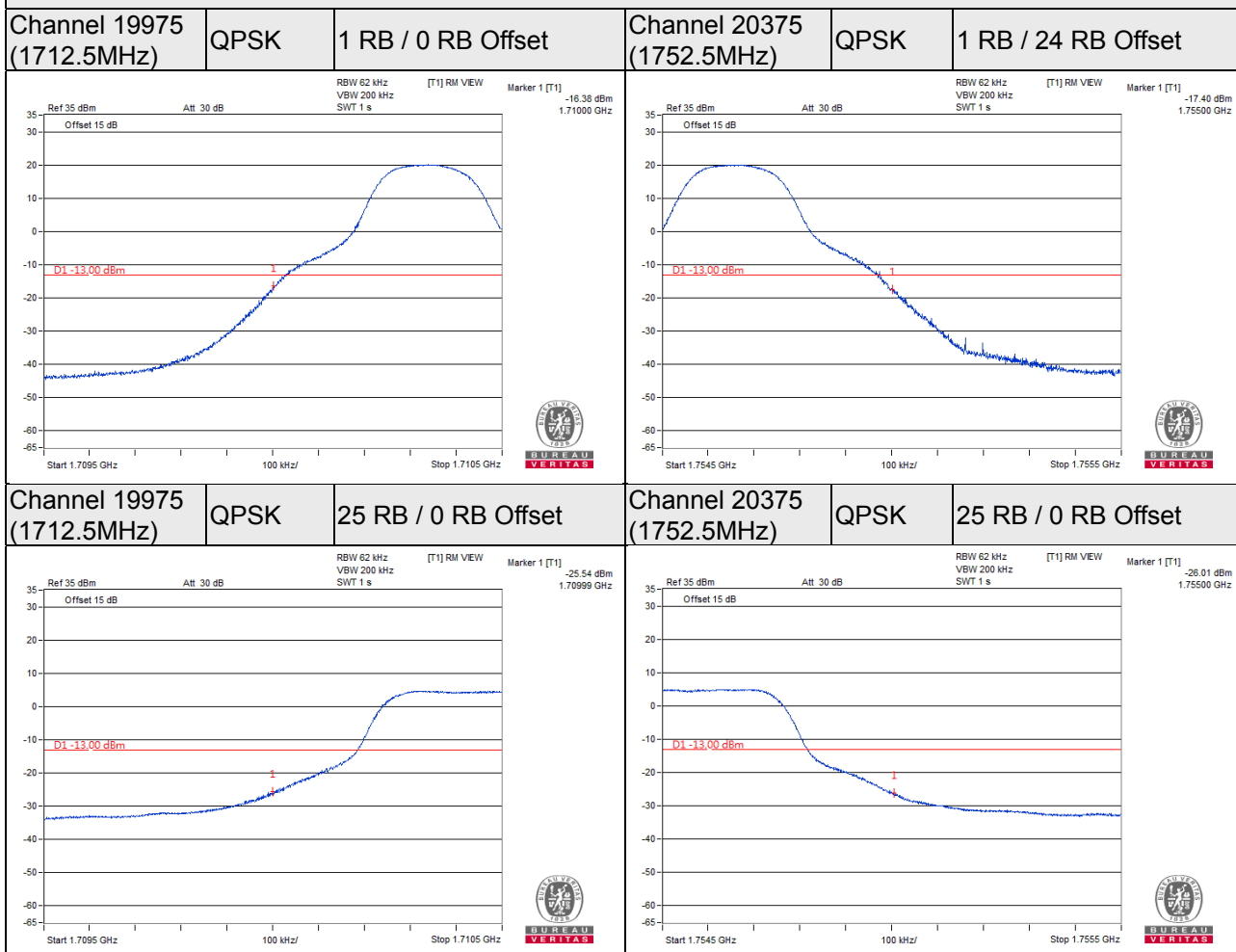
Channel 20385
(1753.5MHz)

QPSK

15 RB / 0 RB Offset

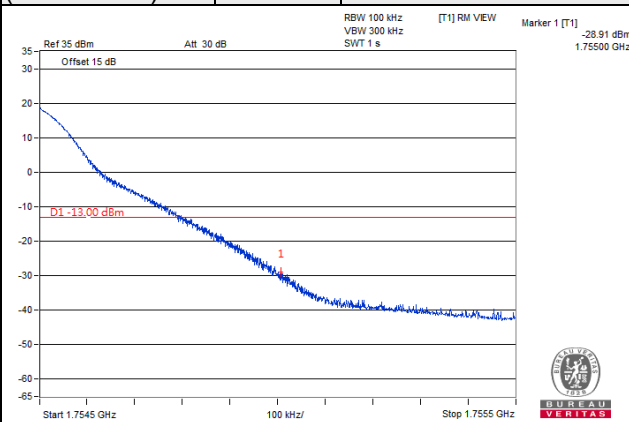
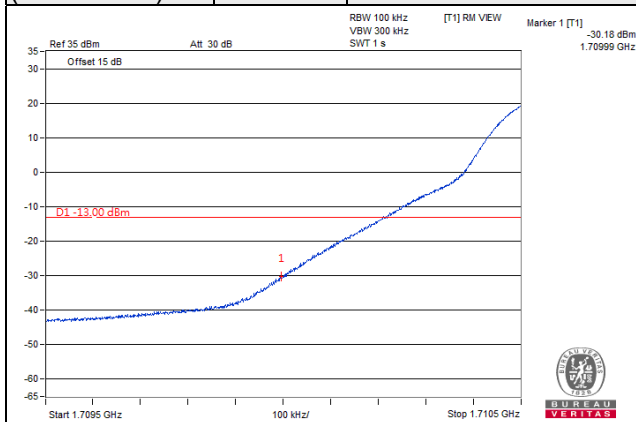


Channel Bandwidth: 5MHz

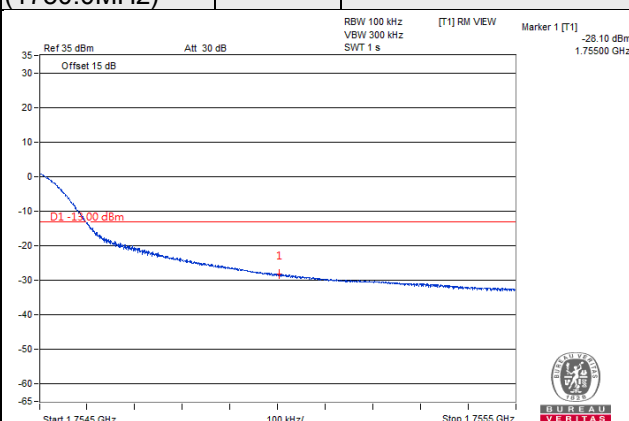
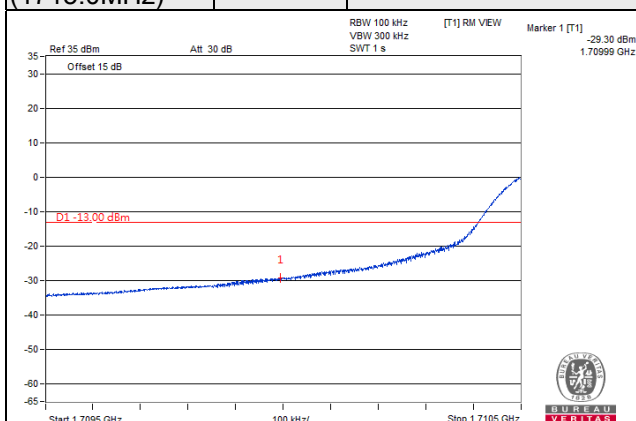


Channel Bandwidth: 10MHz

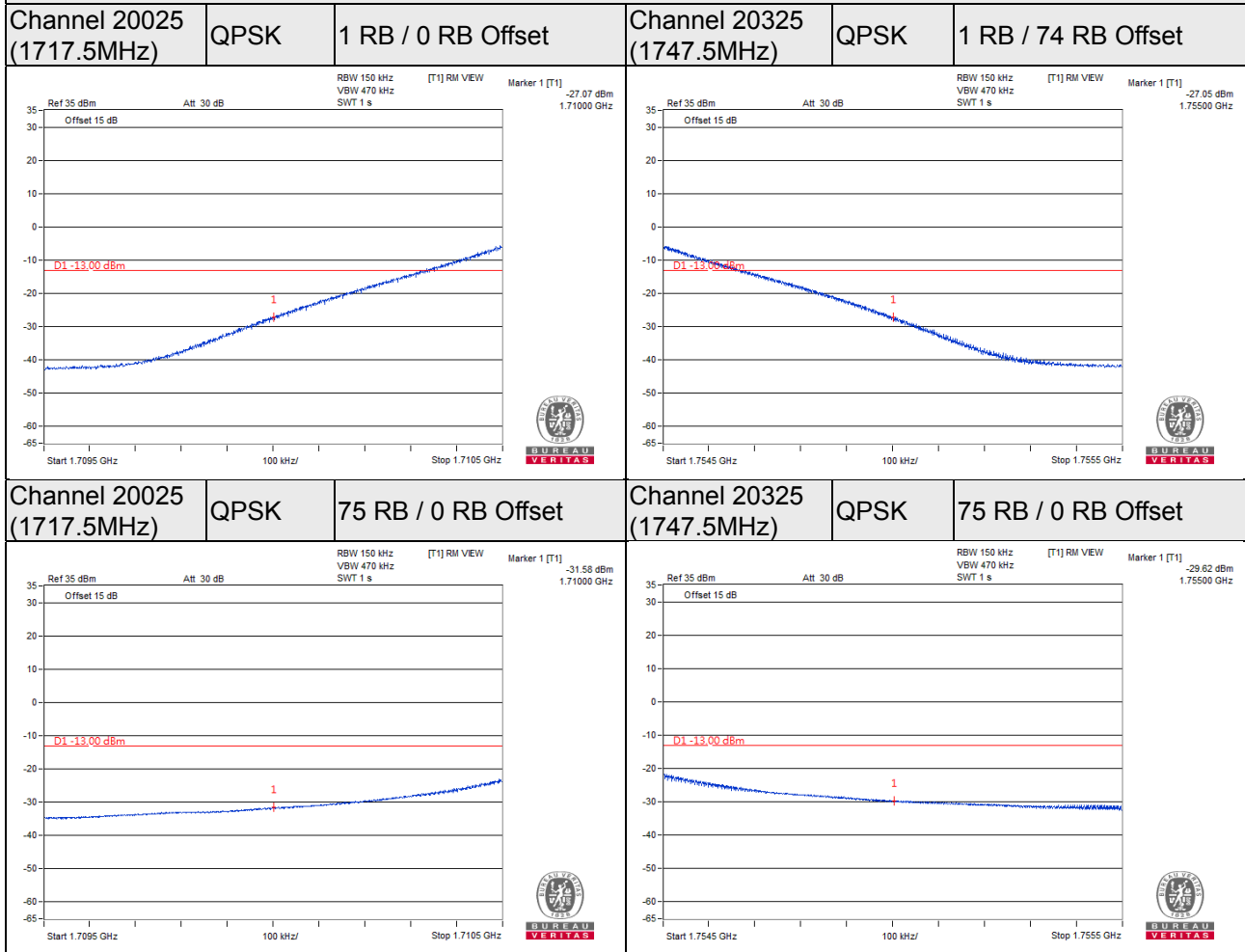
Channel 20000 (1715.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 20350 (1750.0MHz)	QPSK	1 RB / 49 RB Offset
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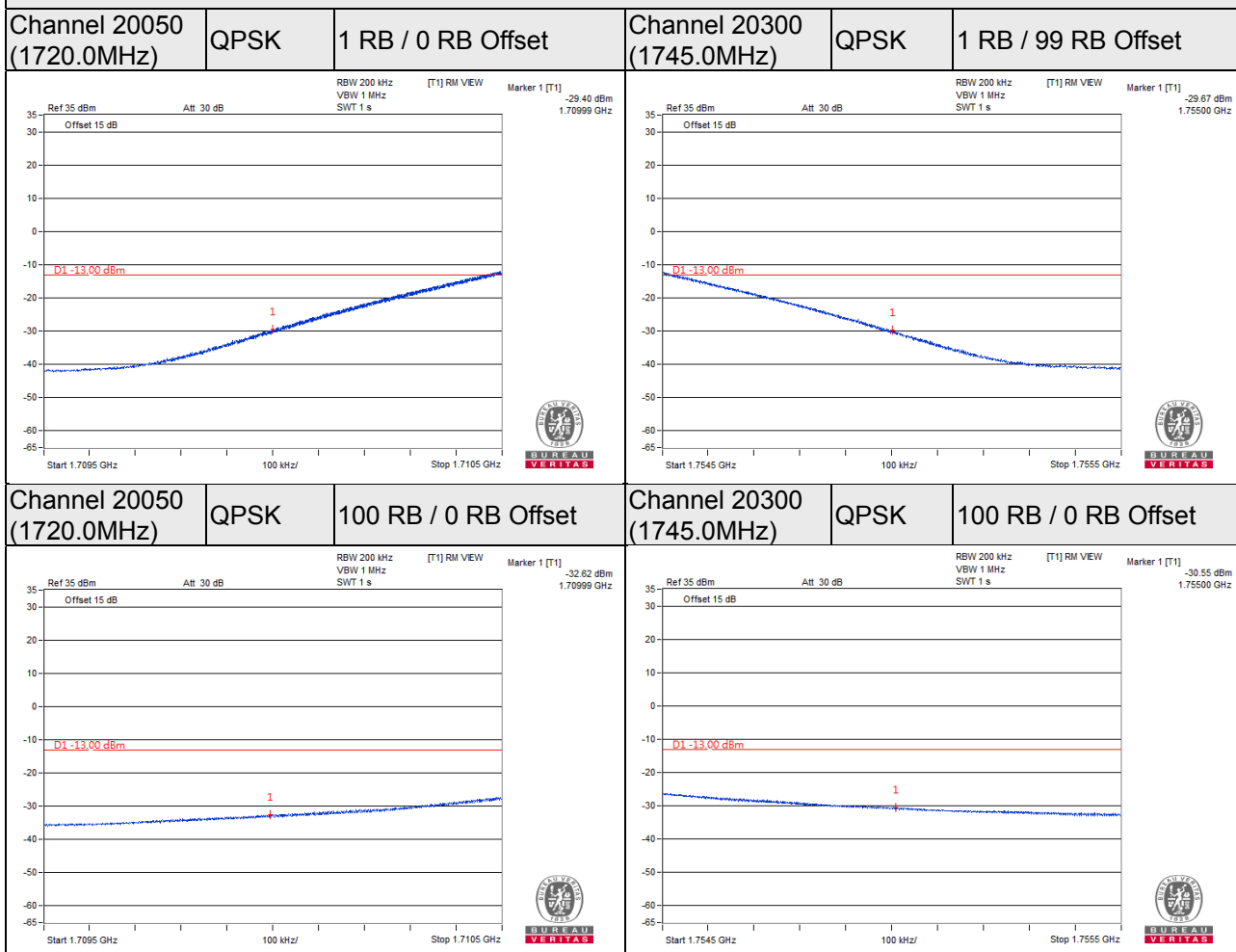
Channel 20000 (1715.0MHz)	QPSK	50 RB / 0 RB Offset	Channel 20350 (1750.0MHz)	QPSK	50 RB / 0 RB Offset
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Channel Bandwidth: 15MHz



Channel Bandwidth: 20MHz



LTE Band 7

Channel Bandwidth: 5MHz

Channel 20775
(2502.5MHz)

QPSK

1 RB / 0 RB Offset

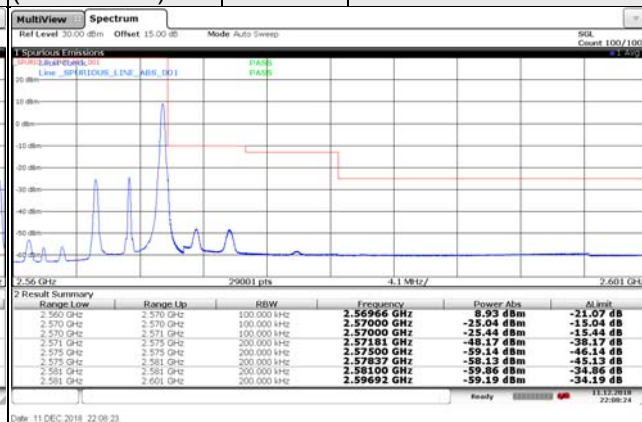
Channel 21425
(2567.5MHz)

QPSK

1 RB / 24 RB Offset



Date: 11 DEC 2018 21:46:28



Date: 11 DEC 2018 22:08:23

Channel 20775
(2502.5MHz)

QPSK

25 RB / 0 RB Offset

Channel 21425
(2567.5MHz)

QPSK

25 RB / 0 RB Offset



Date: 11 DEC 2018 21:59:08



Date: 11 DEC 2018 22:15:13

Channel Bandwidth: 10MHz

Channel 20800
(2505MHz)

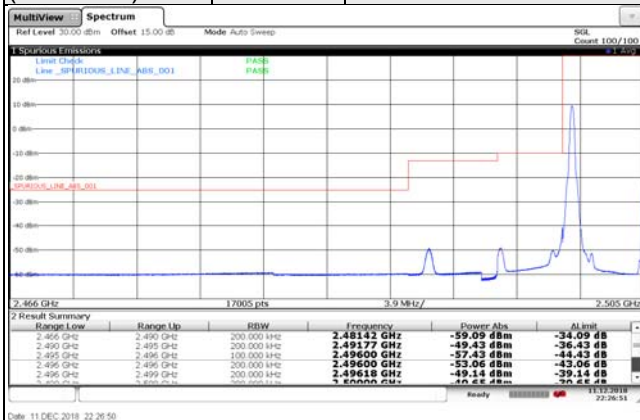
QPSK

1 RB / 0 RB Offset

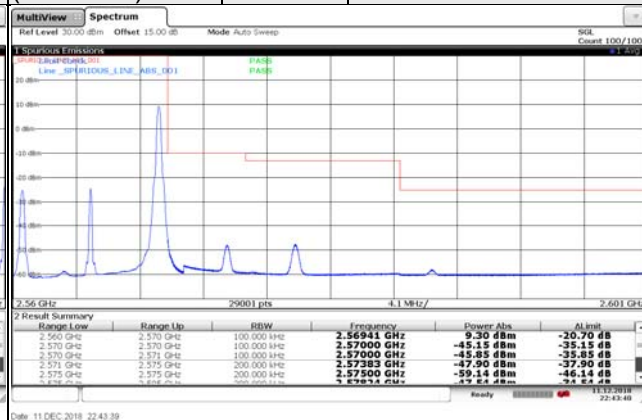
Channel 21400
(2565MHz)

QPSK

1 RB / 49RB Offset



Date: 11 DEC 2018 22:26:50



Date: 11 DEC 2018 22:43:39

Channel 20800
(2505MHz)

QPSK

50 RB / 0 RB Offset

Channel 21400
(2565MHz)

QPSK

50 RB / 0 RB Offset



Date: 11 DEC 2018 22:35:39



Date: 11 DEC 2018 22:50:10

Channel Bandwidth: 15MHz

Channel 20825
(2507.5MHz)

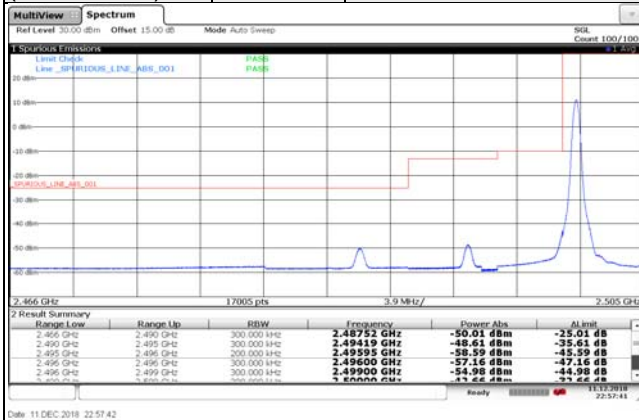
QPSK

1 RB / 0 RB Offset

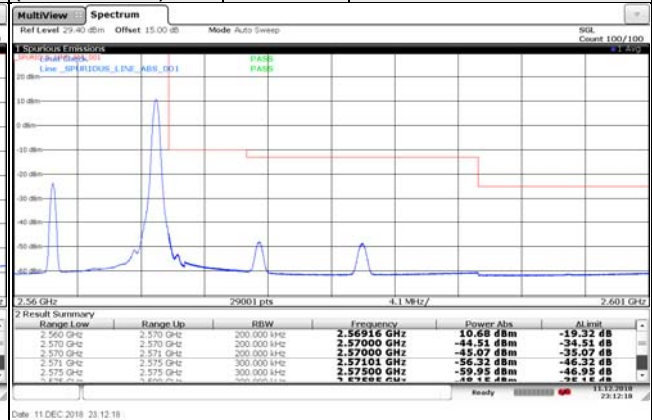
Channel 21375
(2562.5MHz)

QPSK

1 RB / 74RB Offset



Date: 11 DEC 2018 22:57:42



Date: 11 DEC 2018 23:12:18

Channel 20825
(2507.5MHz)

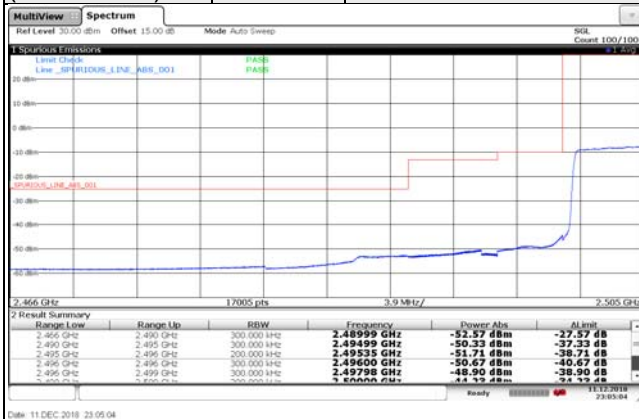
QPSK

75 RB / 0 RB Offset

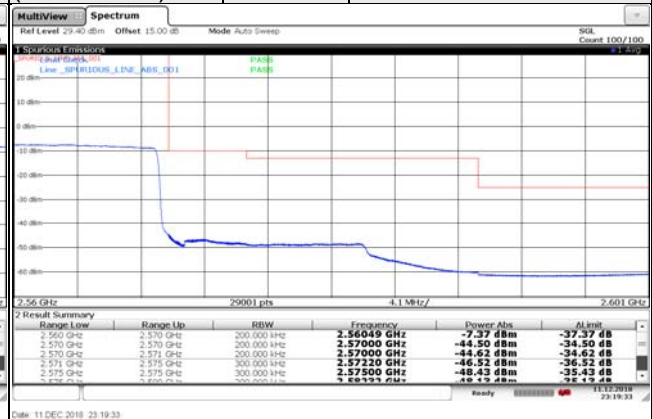
Channel 21375
(2562.5MHz)

QPSK

75 RB / 0 RB Offset



Date: 11 DEC 2018 23:05:04



Date: 11 DEC 2018 23:19:33

Channel Bandwidth: 20MHz

Channel 20850
(2510MHz)

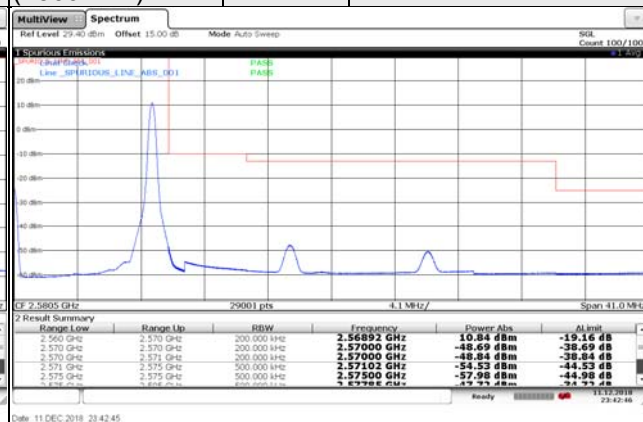
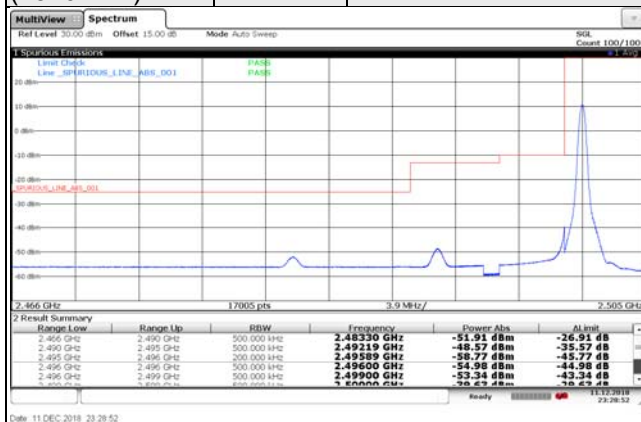
QPSK

1 RB / 0 RB Offset

Channel 21350
(2560MHz)

QPSK

1 RB / 99RB Offset



Channel 20850
(2510MHz)

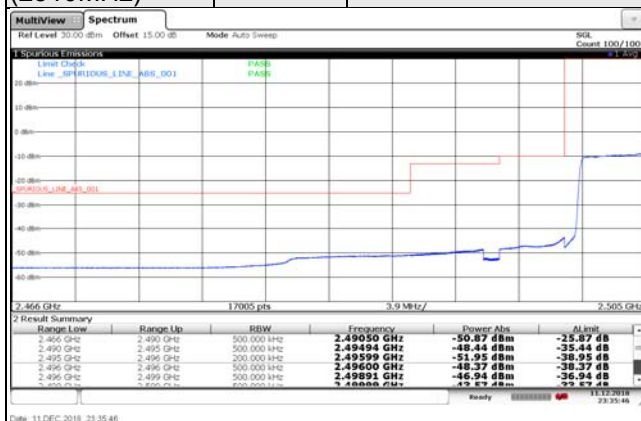
QPSK

100 RB / 0 RB Offset

Channel 21350
(2560MHz)

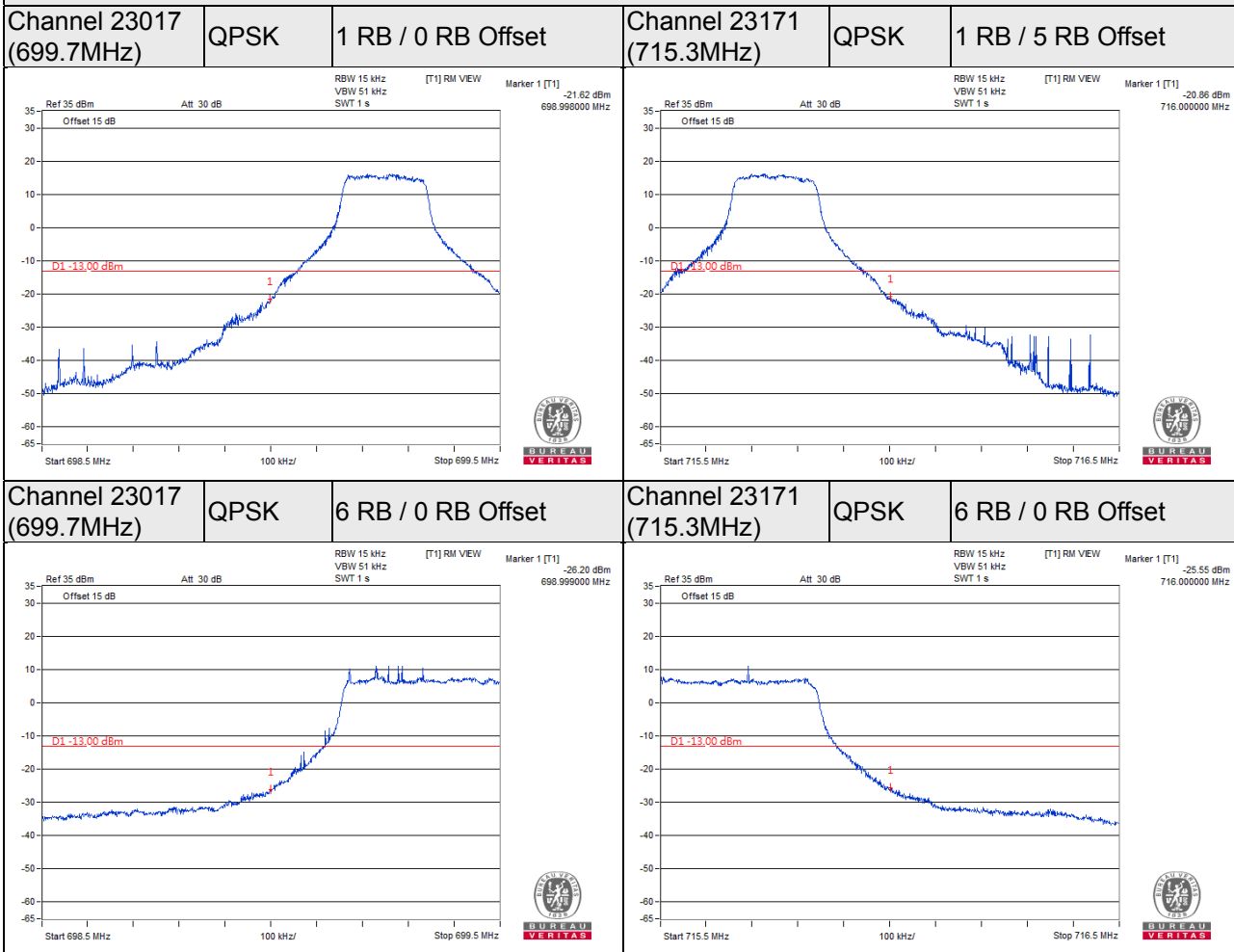
QPSK

100 RB / 0 RB Offset

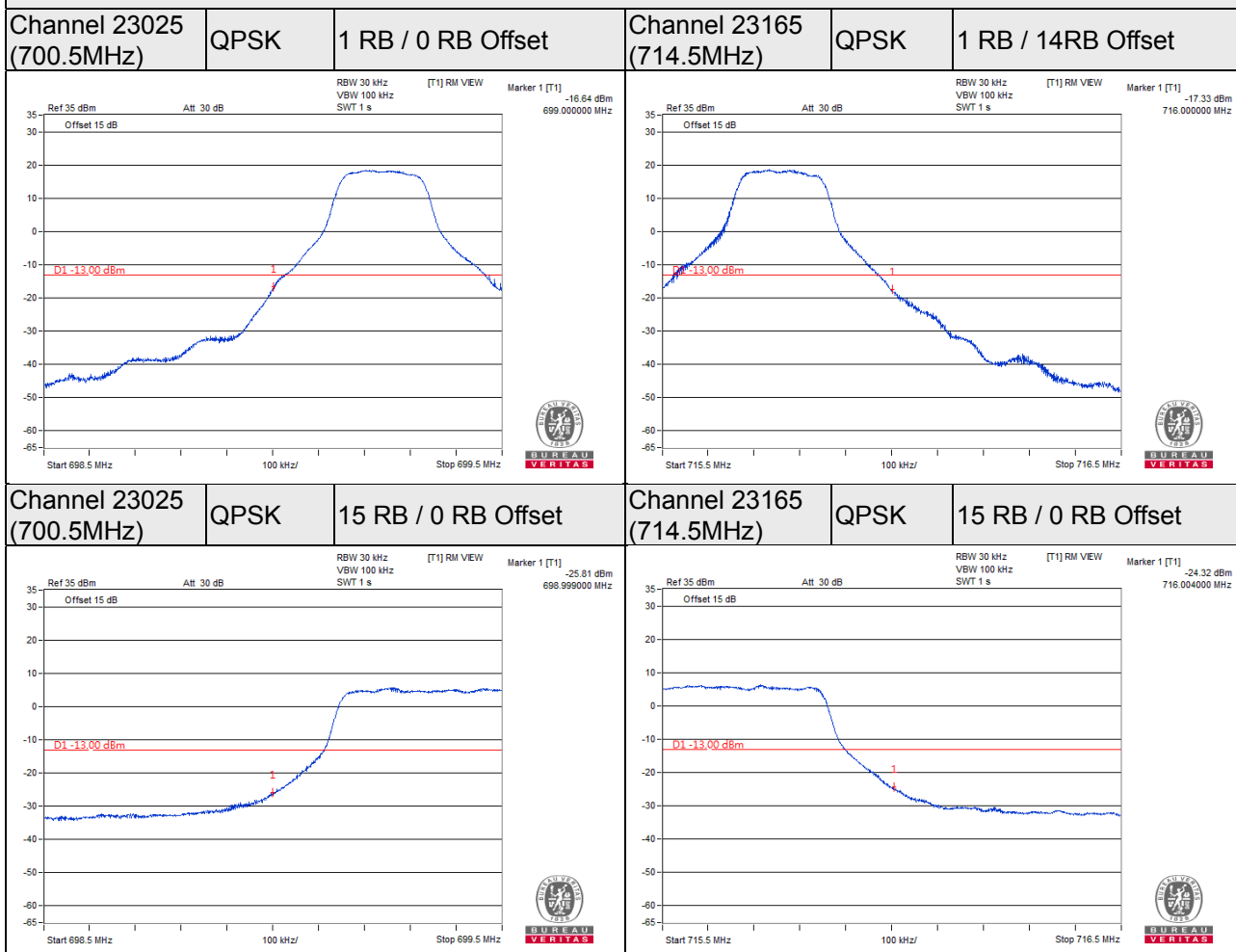


LTE Band 12

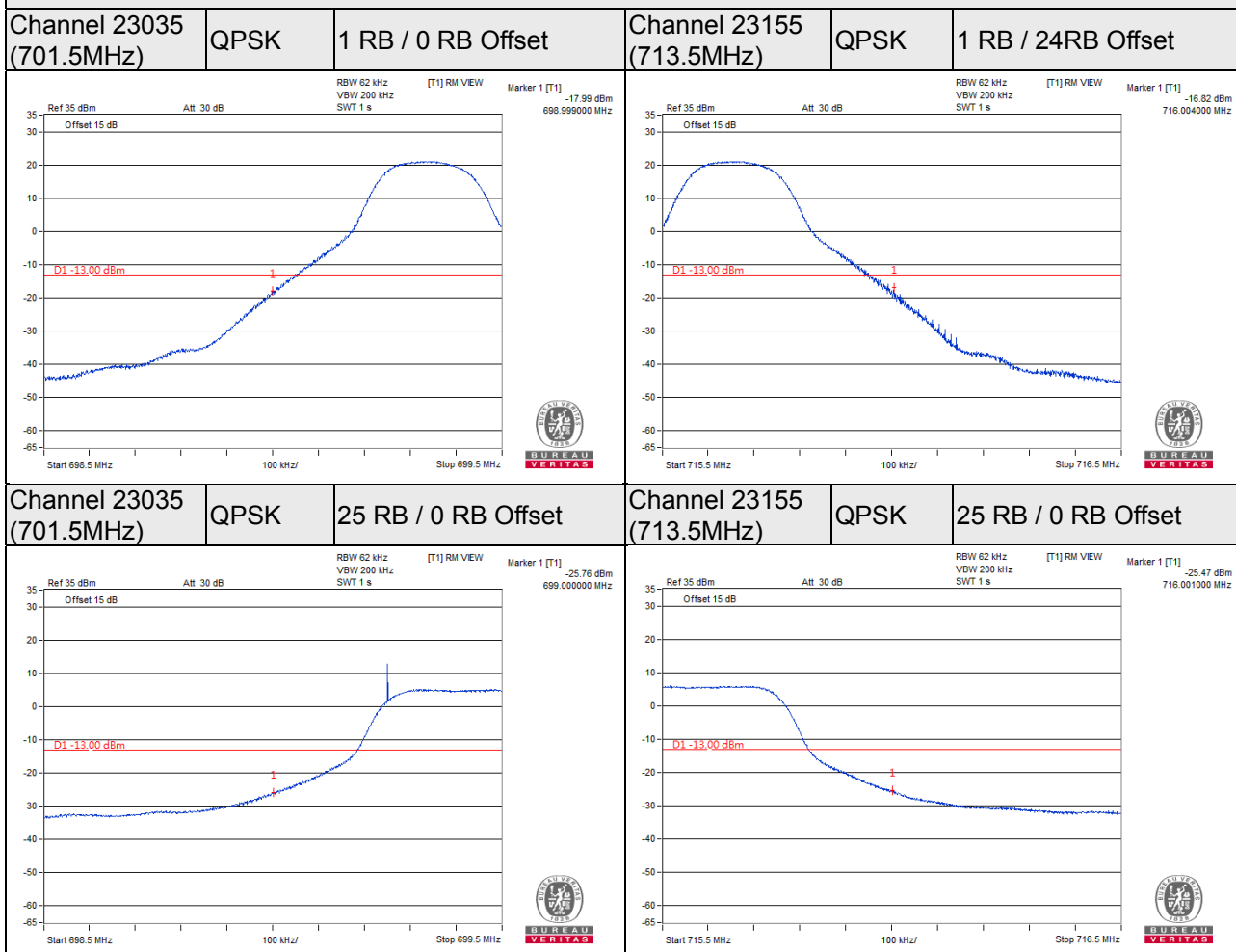
Channel Bandwidth: 1.4MHz



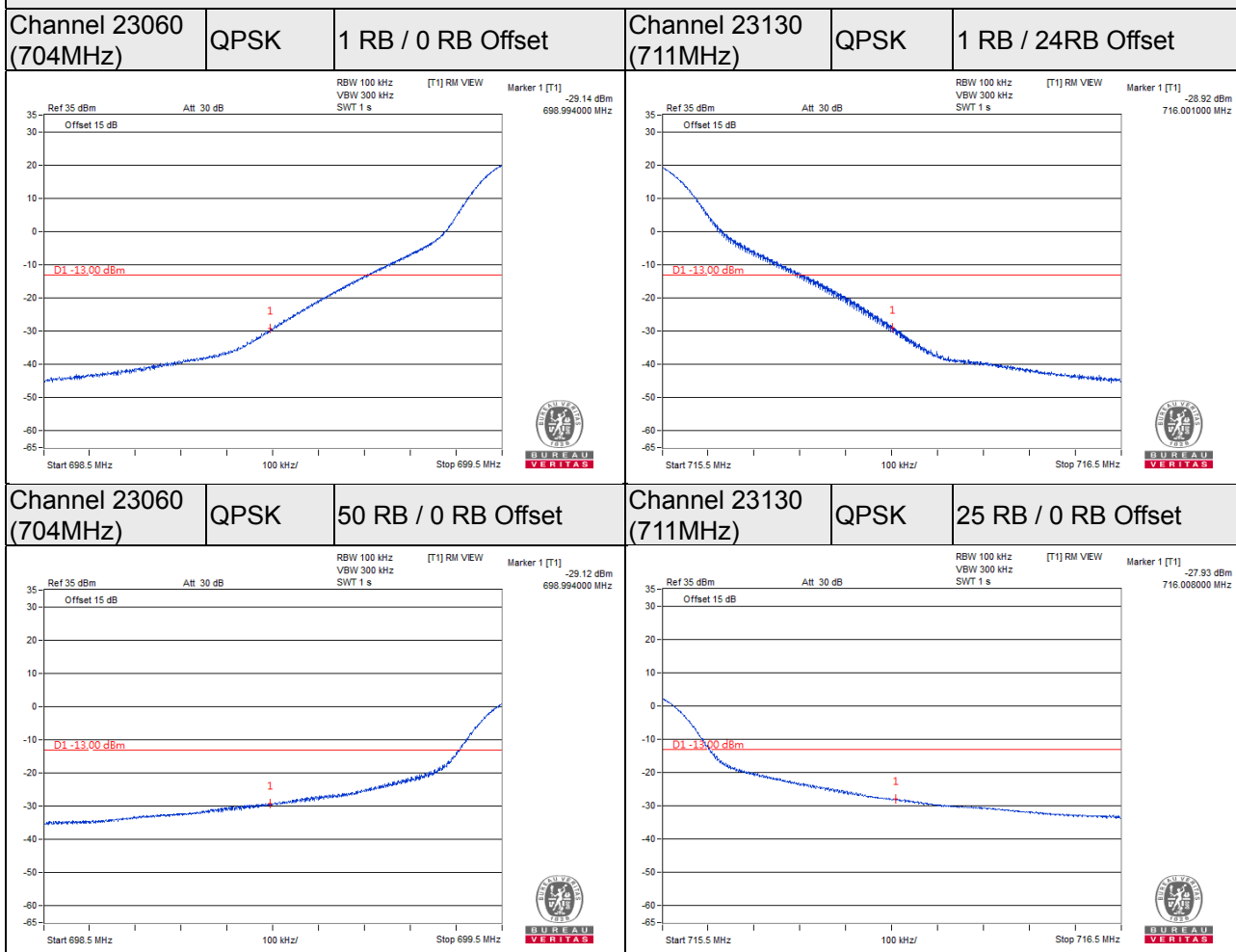
Channel Bandwidth: 3MHz



Channel Bandwidth: 5MHz

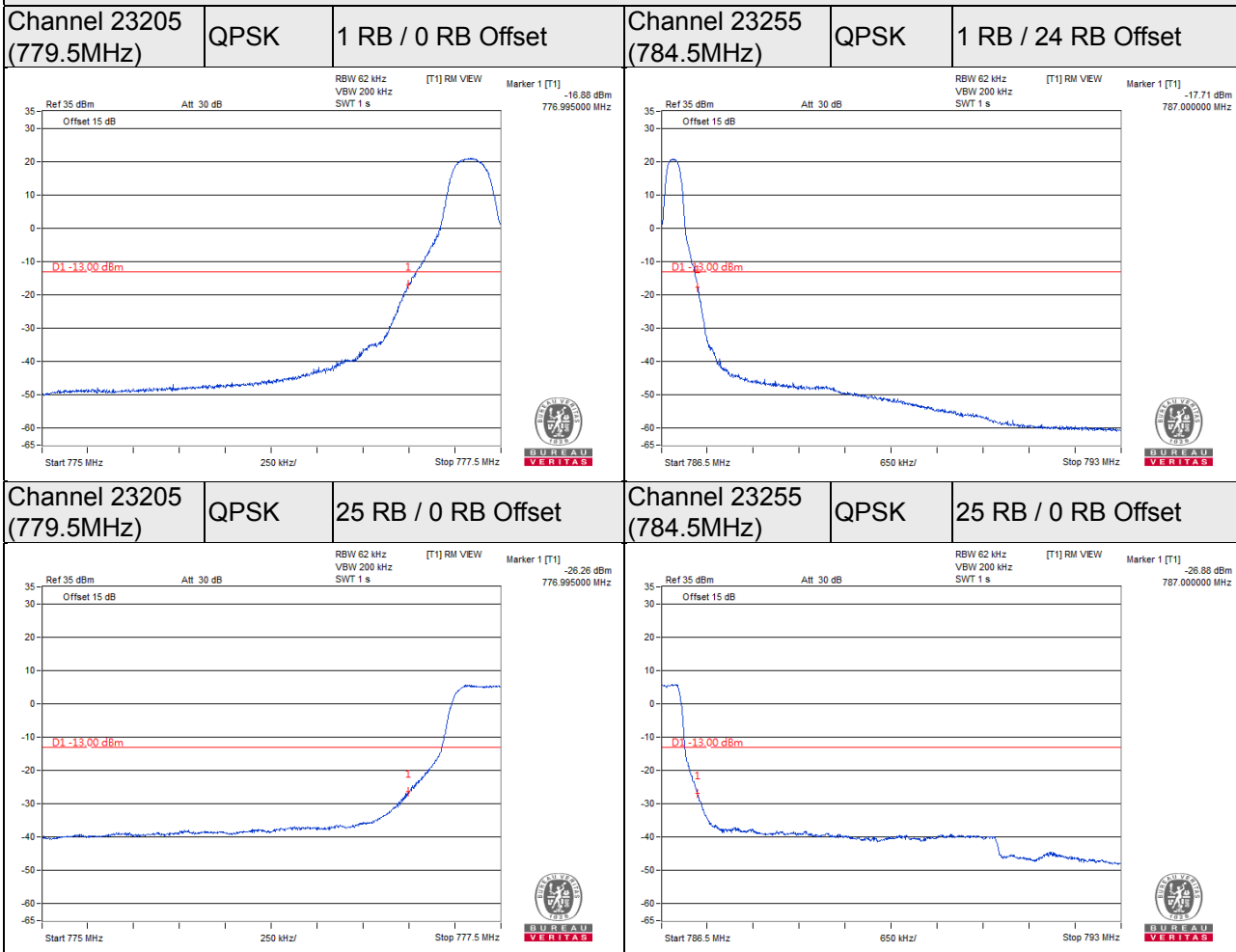


Channel Bandwidth: 10MHz

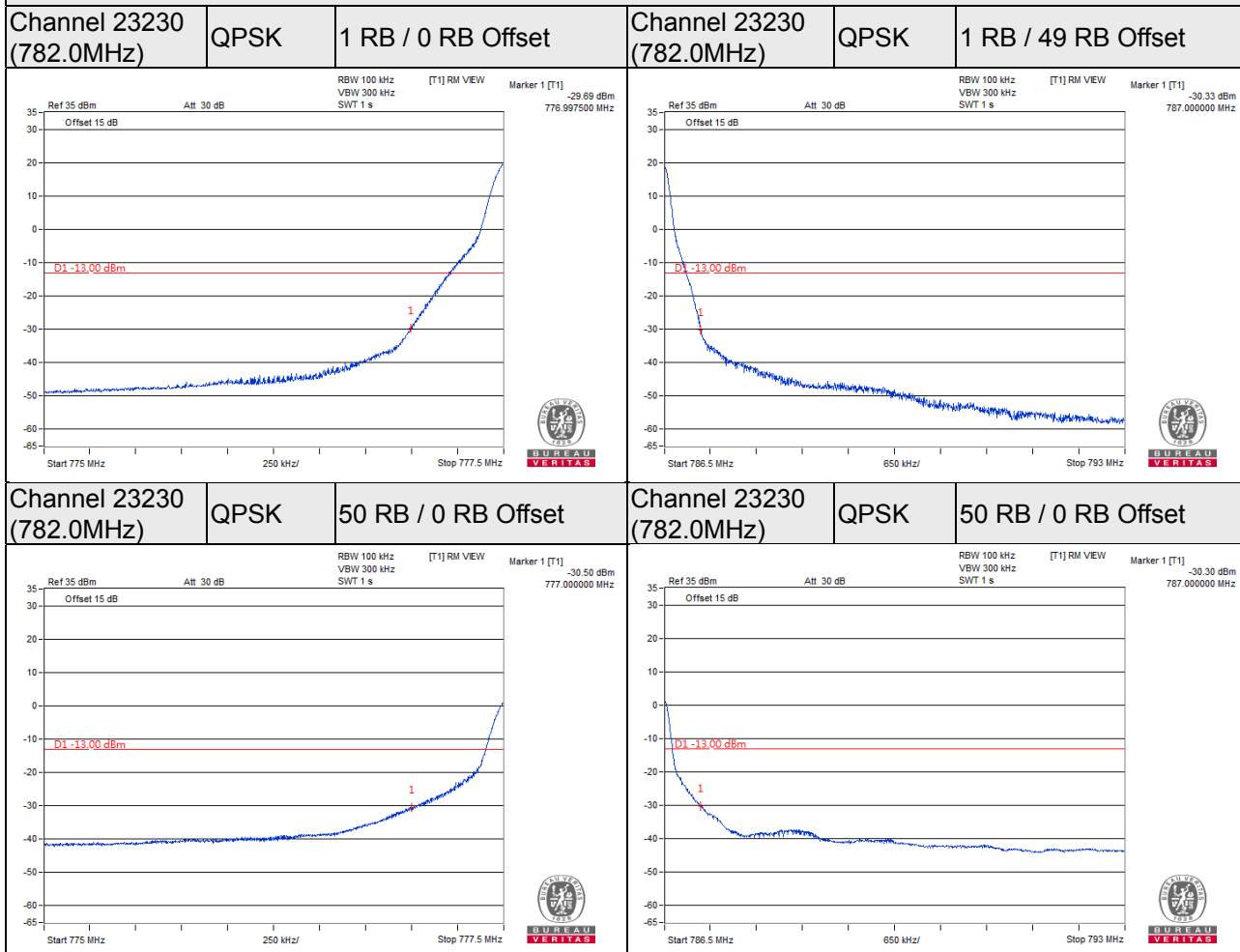


LTE Band 13

Channel Bandwidth: 5MHz



Channel Bandwidth: 10MHz



LTE Band 17

Channel Bandwidth: 5MHz

Channel 23755
(706.5MHz)

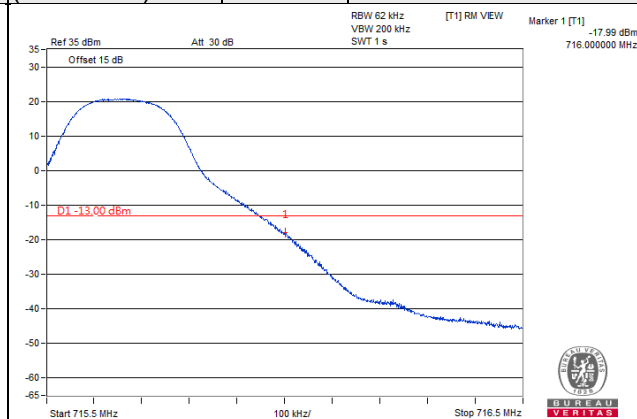
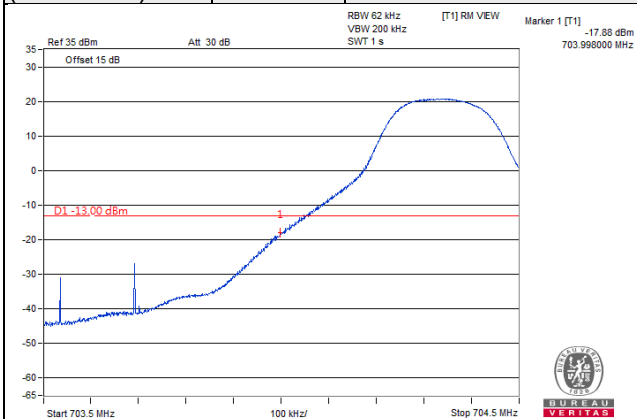
QPSK

1 RB / 0 RB Offset

Channel 23825
(713.5MHz)

QPSK

1 RB / 24 RB Offset



Channel 23755
(706.5MHz)

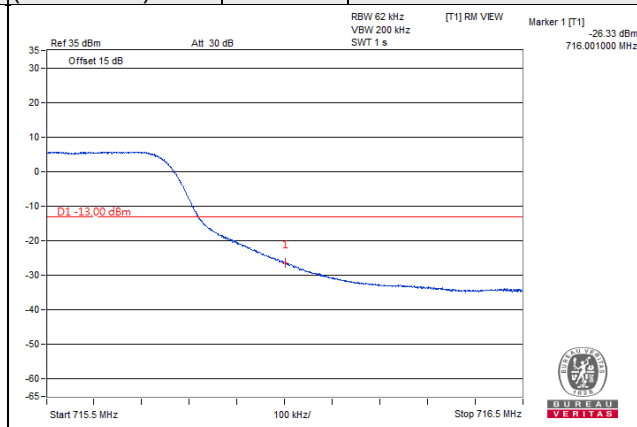
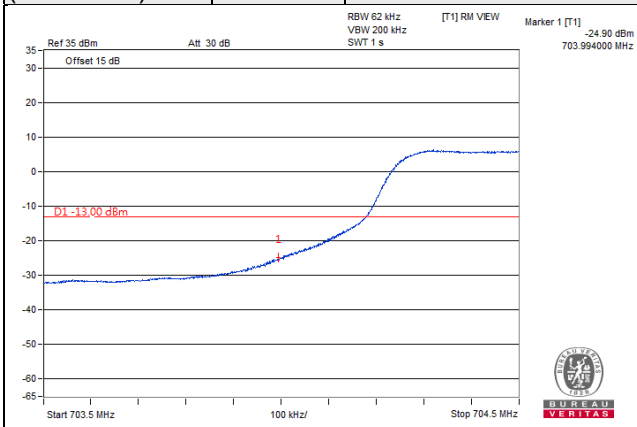
QPSK

25 RB / 0 RB Offset

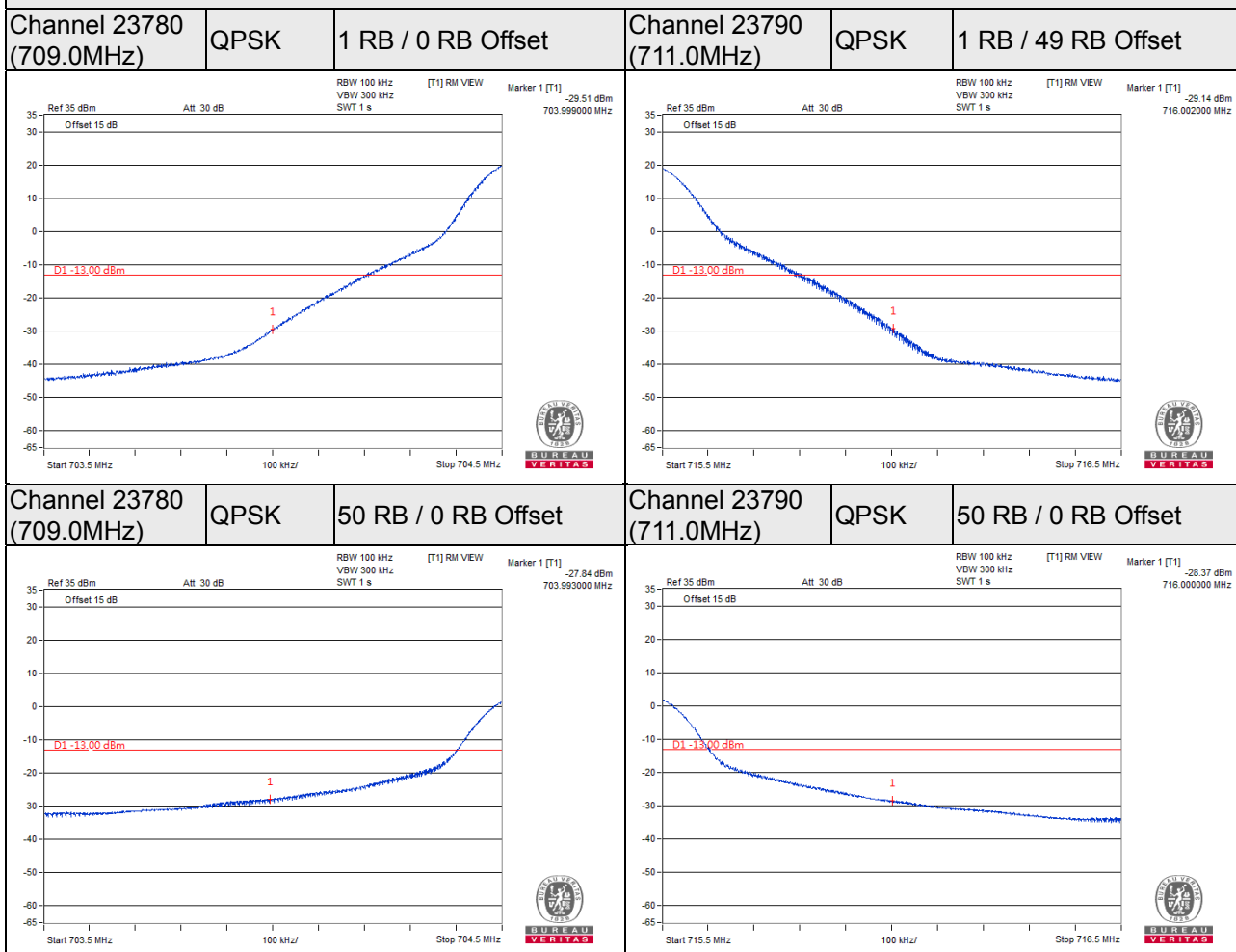
Channel 23825
(713.5MHz)

QPSK

25 RB / 0 RB Offset



Channel Bandwidth: 10MHz



LTE Band 38

Channel Bandwidth: 5MHz

Channel 37775
(2572.5MHz)

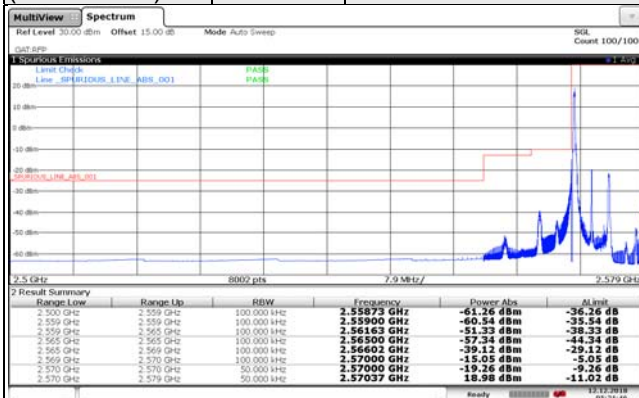
QPSK

1 RB / 0 RB Offset

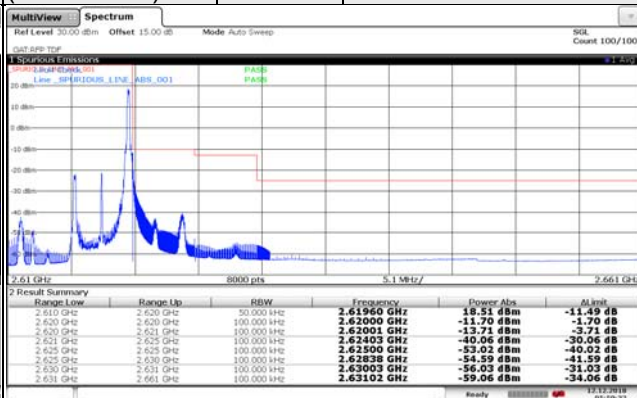
Channel 38225
(2617.5MHz)

QPSK

1 RB / 24 RB Offset



Date: 12 DEC 2018 05:21:46



Date: 12 DEC 2018 05:59:31

Channel 37775
(2572.5MHz)

QPSK

25 RB / 0 RB Offset

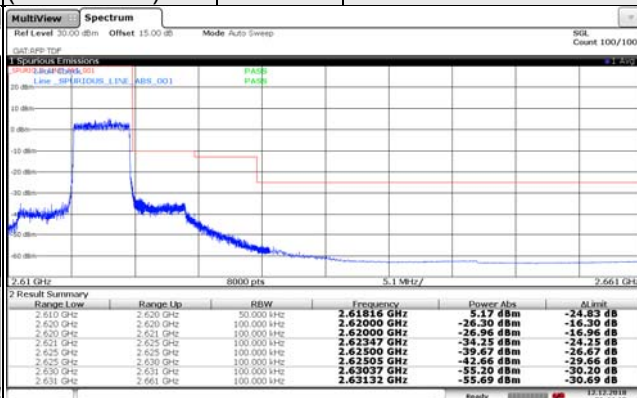
Channel 38225
(2617.5MHz)

QPSK

25 RB / 0 RB Offset



Date: 12 DEC 2018 05:41:33



Date: 12 DEC 2018 06:44:18

Channel Bandwidth: 10MHz

Channel 37800
(2575.0MHz)

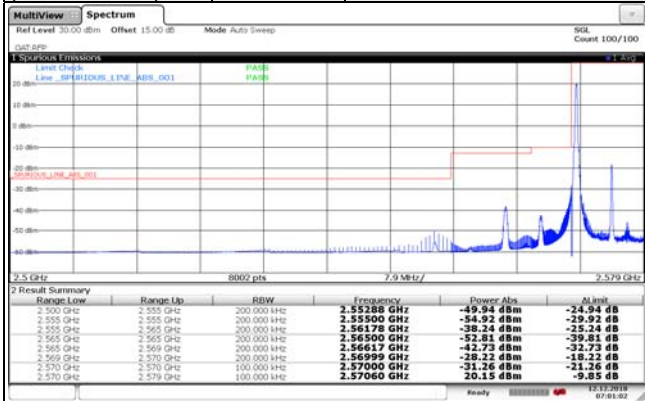
QPSK

1 RB / 0 RB Offset

Channel 38200
(2615.0MHz)

QPSK

1 RB / 49 RB Offset



Date: 12 DEC 2018 07:01:02

Channel 37800
(2575.0MHz)

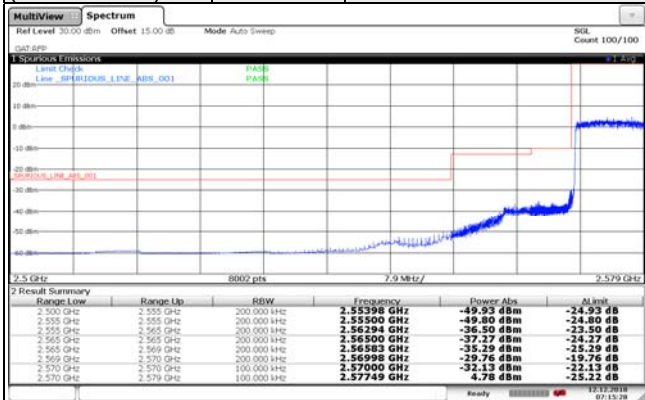
QPSK

50 RB / 0 RB Offset

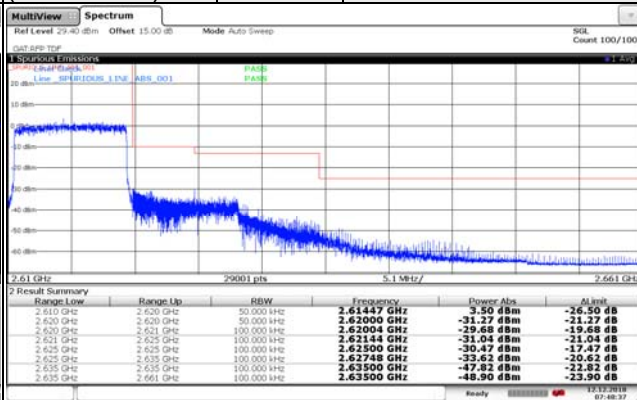
Channel 38200
(2615.0MHz)

QPSK

50 RB / 0 RB Offset



Date: 12 DEC 2018 07:15:27



Date: 12 DEC 2018 07:48:37

Channel Bandwidth: 15MHz

Channel 37825
(2577.5MHz)

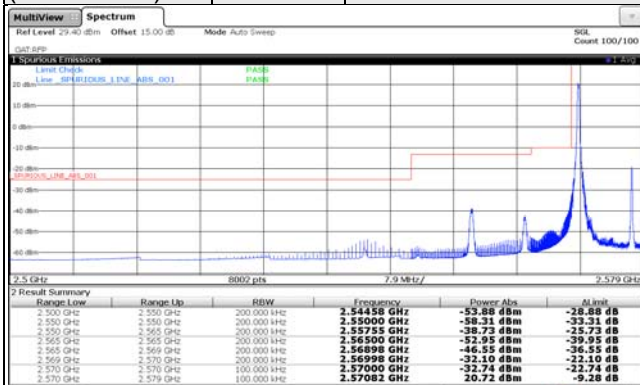
QPSK

1 RB / 0 RB Offset

Channel 38175
(2612.5MHz)

QPSK

1 RB / 74RB Offset



Channel 37825
(2577.5MHz)

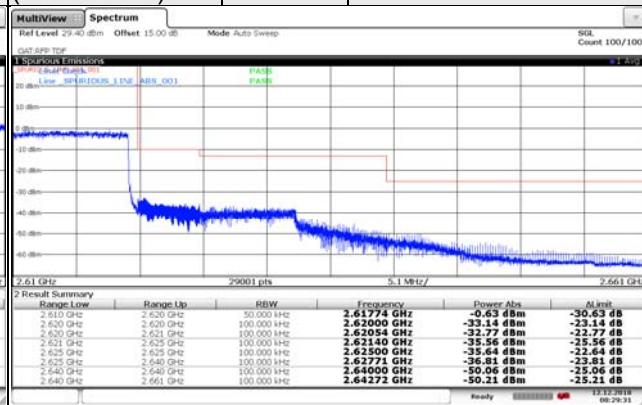
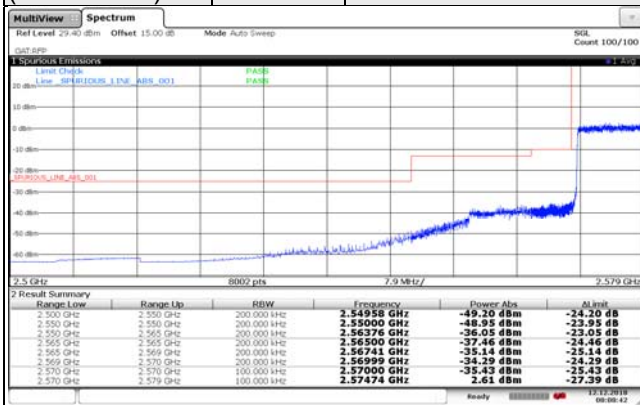
QPSK

75 RB / 0 RB Offset

Channel 38175
(2612.5MHz)

QPSK

75 RB / 0 RB Offset



Channel Bandwidth: 20MHz

Channel 37850
(2580.0MHz)

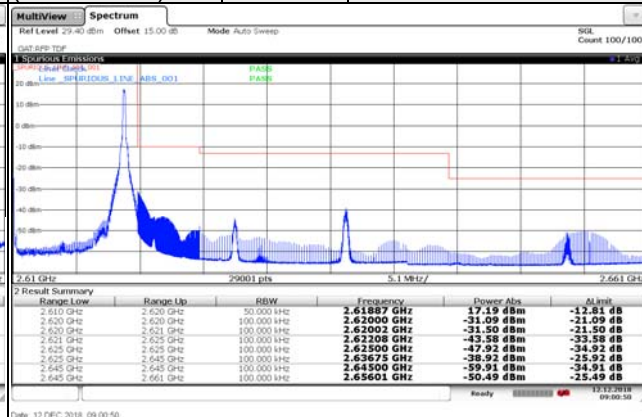
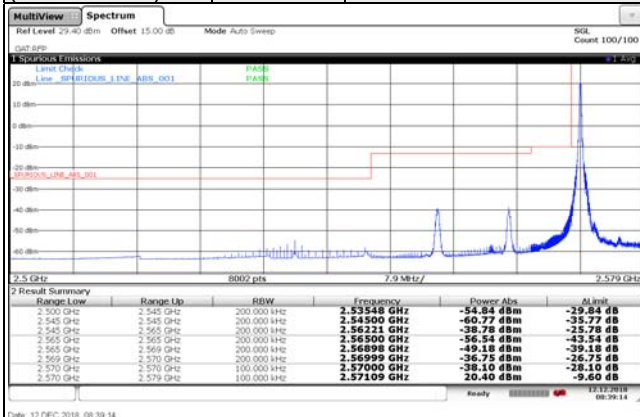
QPSK

1 RB / 0 RB Offset

Channel 38150
(2610.0MHz)

QPSK

1 RB / 99 RB Offset



Channel 37850
(2580.0MHz)

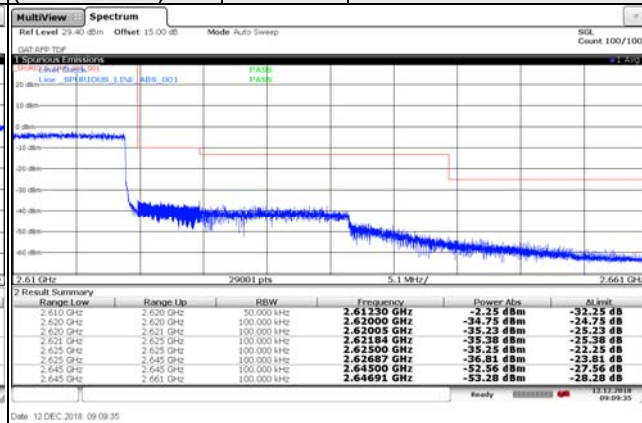
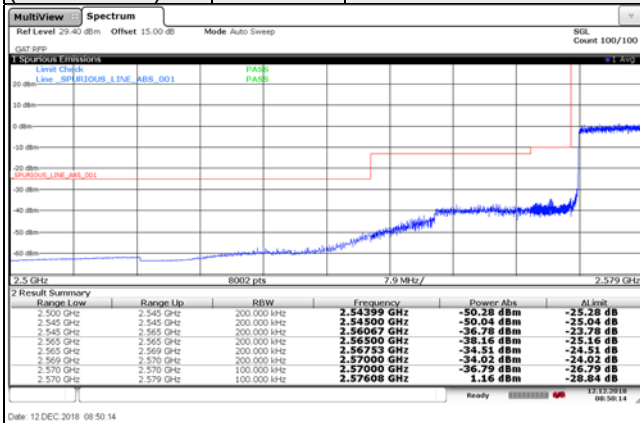
QPSK

100 RB / 0 RB Offset

Channel 38150
(2610.0MHz)

QPSK

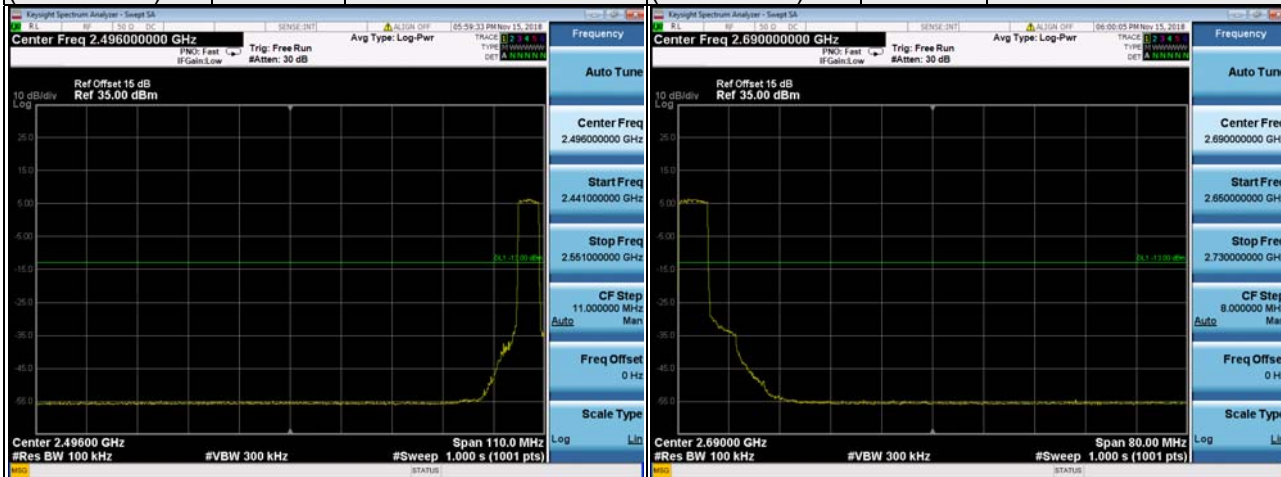
100 RB / 0 RB Offset



LTE Band 41

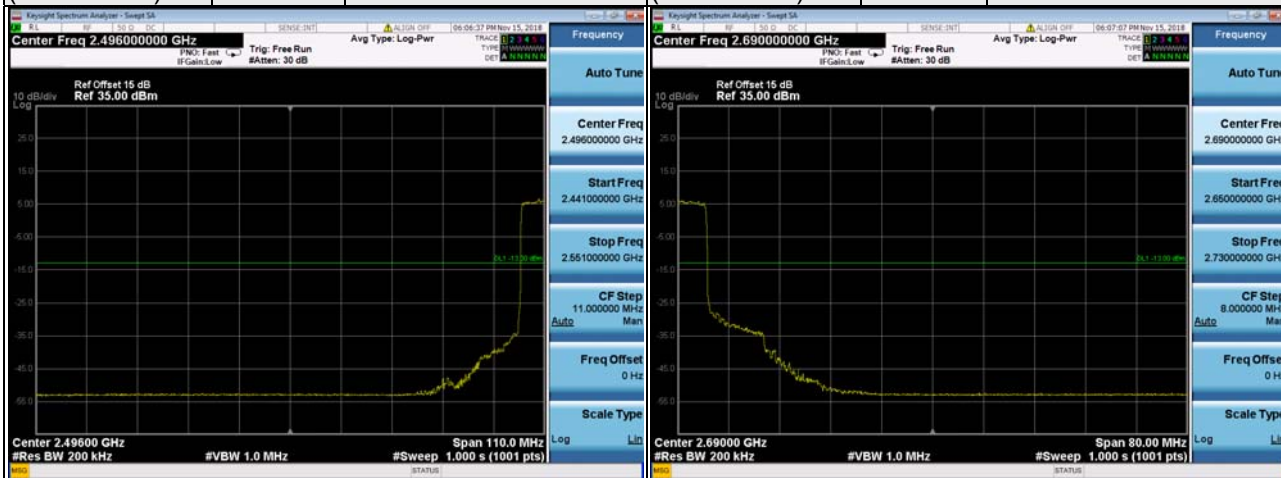
Channel Bandwidth: 5MHz

Channel 40165 (2547.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 41215 (2652.5MHz)	QPSK	25 RB / 0 RB Offset
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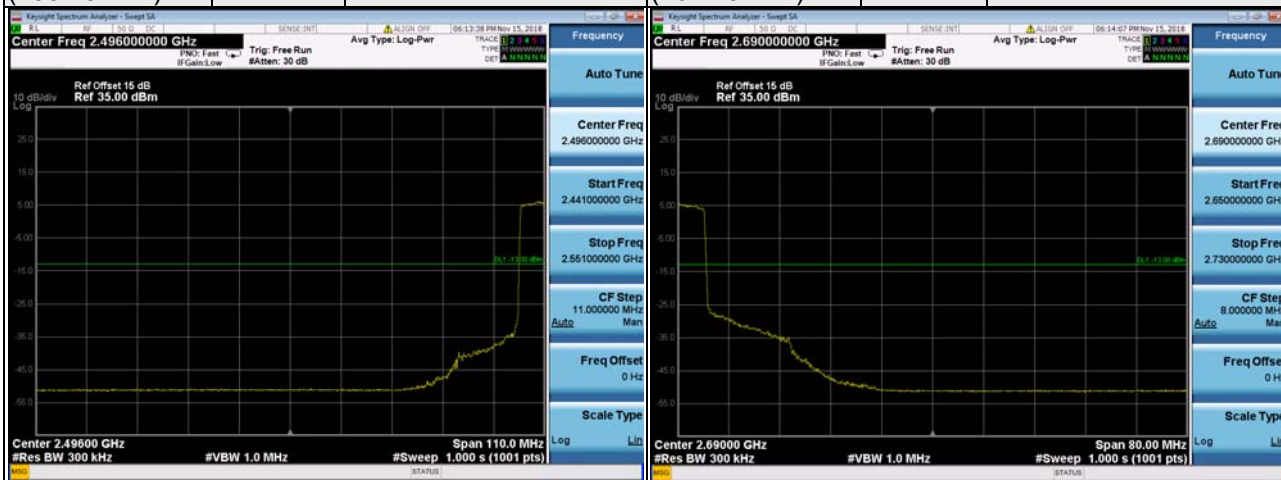
Channel Bandwidth: 10MHz

Channel 40190 (2550.0MHz)	QPSK	50 RB / 0 RB Offset	Channel 41190 (2650.0MHz)	QPSK	50 RB / 0 RB Offset
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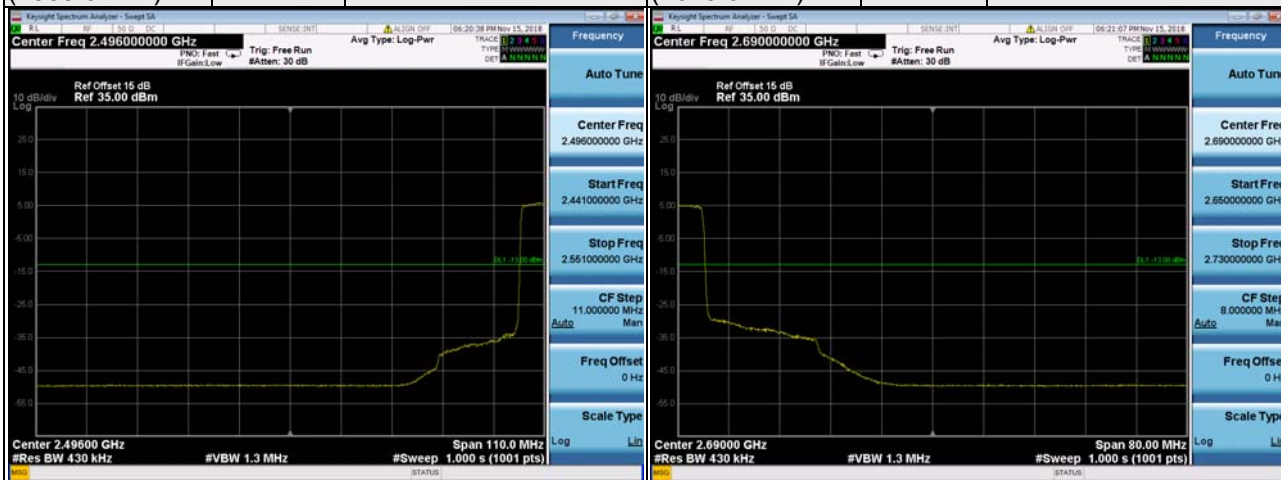
Channel Bandwidth: 15MHz

Channel 40215 (2552.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 41165 (2647.5MHz)	QPSK	75 RB / 0 RB Offset
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Channel Bandwidth: 20MHz

Channel 40240 (2555.0MHz)	QPSK	100 RB / 0 RB Offset	Channel 41140 (2645.0MHz)	QPSK	100 RB / 0 RB Offset
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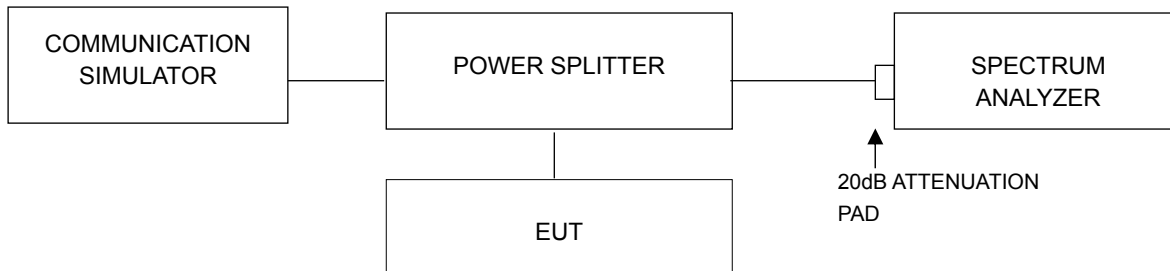


4.6 Peak to Average Ratio

4.6.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.6.2 Test Setup

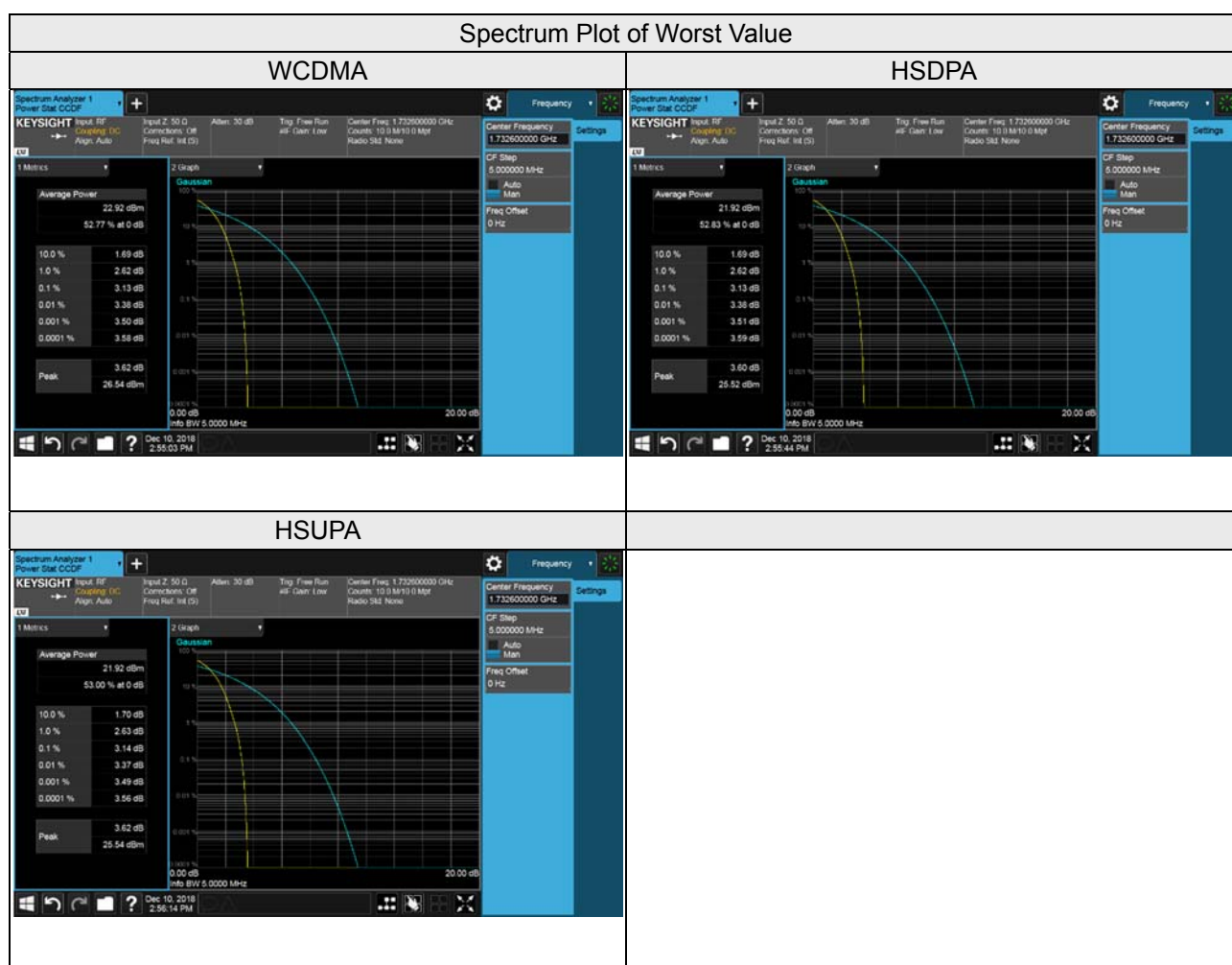


4.6.3 Test Procedures

- Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Record the maximum PAPR level associated with a probability of 0.1%.

4.6.4 Test Results

WCDMA Band 4				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		WCDMA	HSDPA	HSUPA
1312	1712.4	3.00	2.99	2.99
1413	1732.6	3.13	3.13	3.14
1513	1752.6	3.05	3.06	3.06



LTE Band 4, Channel Bandwidth 1.4MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
19957	1710.7	4.22	5.09
20175	1732.5	4.25	5.15
20393	1754.3	3.98	5.01

LTE Band 4, Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
19965	1711.5	4.27	5.07
20175	1732.5	4.30	5.12
20385	1753.5	4.15	5.16

LTE Band 4, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
19975	1712.5	4.24	5.08
20175	1732.5	4.30	5.13
20375	1752.5	4.16	5.16

LTE Band 4, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
20000	1715.0	4.22	5.23
20175	1732.5	4.30	5.18
20350	1750.0	4.13	4.98

LTE Band 4, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
20025	1717.5	4.21	5.00
20175	1732.5	4.22	5.09
20325	1747.5	4.05	4.88

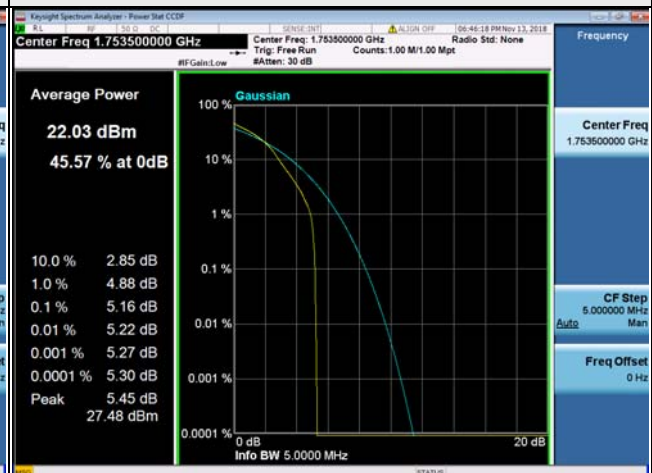
LTE Band 4, Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
20050	1720.0	4.19	5.07
20175	1732.5	4.27	5.14
20300	1745.0	4.09	5.05

Spectrum Plot Of Worst Value

1.4MHz / 16QAM



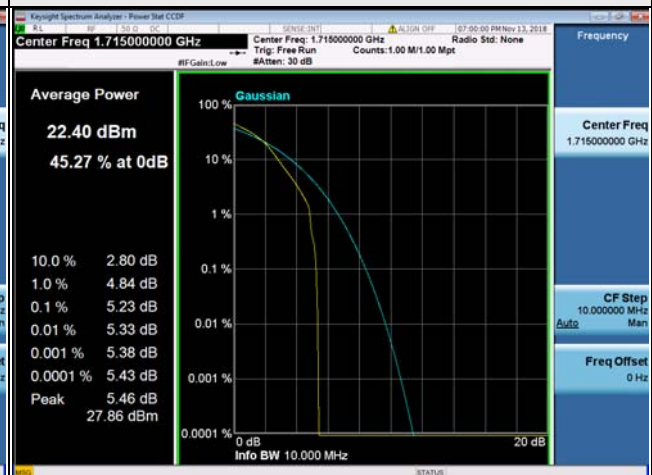
3MHz / 16QAM



5MHz / 16QAM



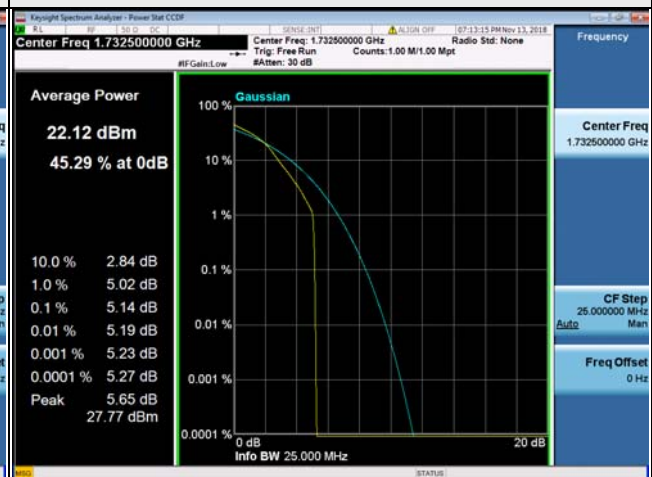
10MHz / 16QAM



15MHz / 16QAM



20MHz / 16QAM



LTE Band 7, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
20775	2502.5	4.40	5.16
21100	2535.0	4.75	5.56
21425	2567.5	4.57	5.31

LTE Band 7, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
20800	2505.0	4.37	5.23
21100	2535.0	4.73	5.48
21400	2565.0	4.33	5.16

LTE Band 7, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
20825	2507.5	4.36	5.14
21100	2535.0	4.67	5.40
21375	2562.5	4.17	5.03

LTE Band 7, Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
20850	2510.0	4.39	5.13
21100	2535.0	4.61	5.39
21350	2560.0	4.28	5.10

Spectrum Plot Of Worst Value

5MHz / 16QAM



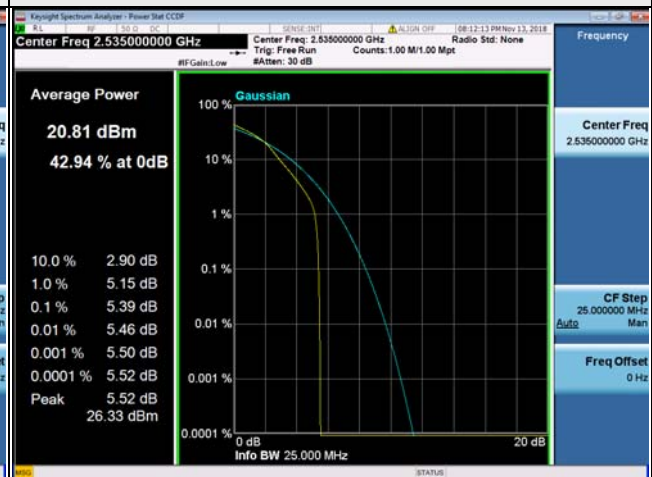
10MHz / 16QAM



15MHz / 16QAM



20MHz / 16QAM



LTE Band 12, Channel Bandwidth 1.4MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
23017	699.7	3.57	4.17
23095	707.5	3.41	4.24
23173	715.3	3.45	4.18

LTE Band 12, Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
23025	700.5	3.38	4.13
23095	707.5	3.38	4.15
23165	714.5	3.29	4.20

LTE Band 12, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
23035	701.5	3.32	4.15
23095	707.5	3.34	4.14
23155	713.5	3.30	4.11

LTE Band 12, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
23060	704.0	3.36	4.16
23095	707.5	3.32	4.21
23130	711.0	3.33	4.17

Spectrum Plot Of Worst Value

1.4MHz / 16QAM



3MHz / 16QAM



5MHz / 16QAM

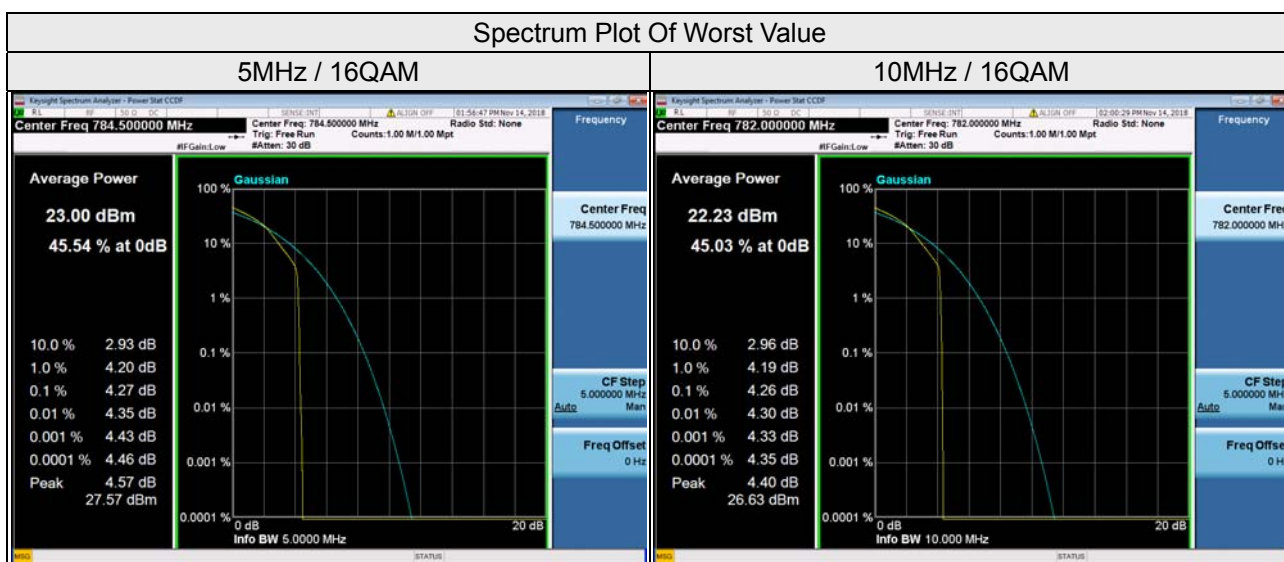


10MHz / 16QAM



LTE Band 13, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
23205	779.5	3.36	4.22
23230	782.0	3.44	4.27
23255	784.5	3.43	4.27

LTE Band 13, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
23230	782.0	3.47	4.26



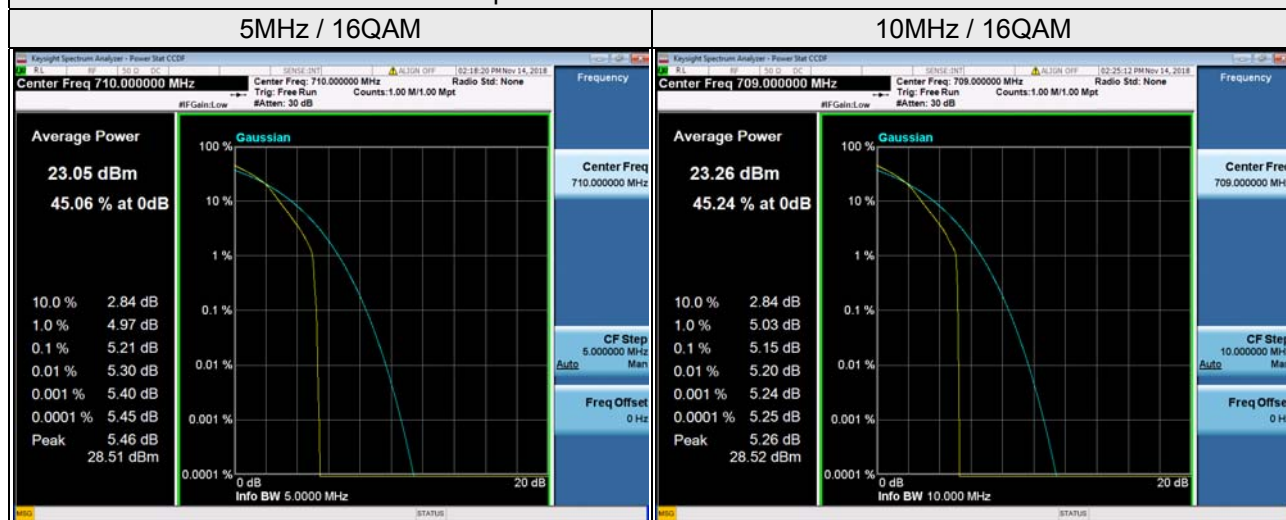
LTE Band 17, Channel Bandwidth 5MHz

Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
23755	706.5	4.28	5.15
23790	710.0	4.32	5.21
23825	713.5	4.31	5.17

LTE Band 17, Channel Bandwidth 10MHz

Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
23780	709.0	4.28	5.15
23790	710.0	4.23	5.11
23800	711.0	4.28	5.13

Spectrum Plot Of Worst Value



LTE Band 38, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
37775	2572.5	4.60	5.95
38000	2595.0	5.57	6.29
38225	2617.5	5.48	6.11

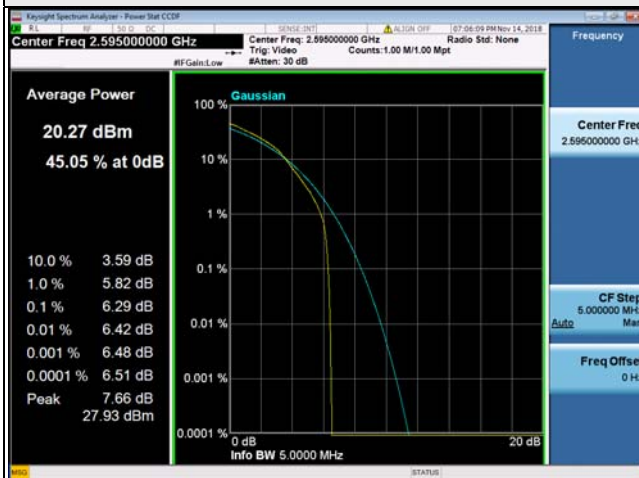
LTE Band 38, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
37800	2575.0	4.94	6.25
38000	2595.0	5.49	6.48
38200	2615.0	5.59	6.26

LTE Band 38, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
37825	2577.5	5.11	5.74
38000	2595.0	5.15	5.65
38175	2612.5	5.39	6.23

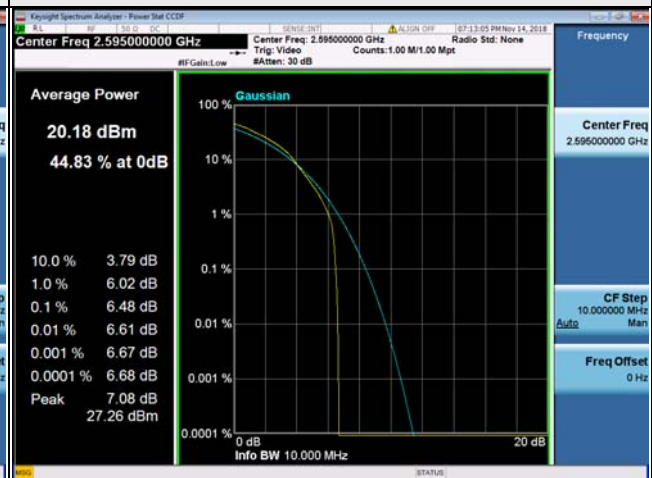
LTE Band 38, Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
37850	2580.0	5.02	5.78
38000	2595.0	5.22	6.05
38150	2610.0	6.53	5.82

Spectrum Plot Of Worst Value

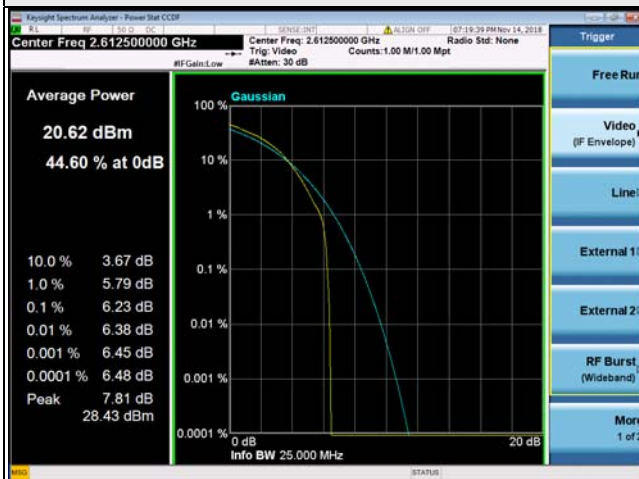
5MHz / 16QAM



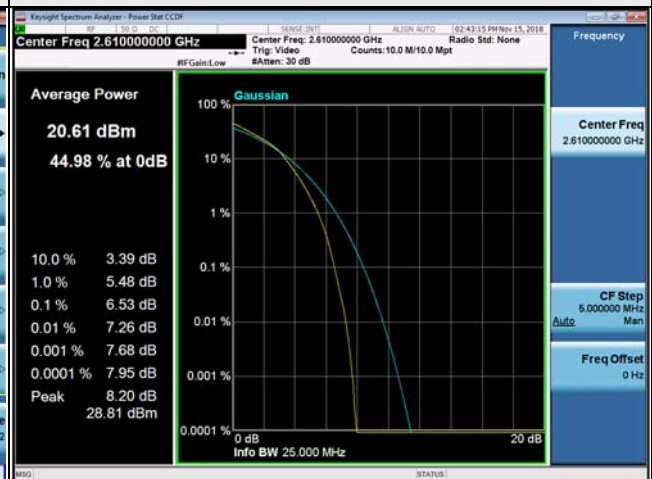
10MHz / 16QAM



15MHz / 16QAM



20MHz / QPSK



LTE Band 41, Channel Bandwidth 5MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
40165	2547.5	5.28	6.17
40690	2600.0	4.93	6.27
41215	2652.5	4.54	6.00

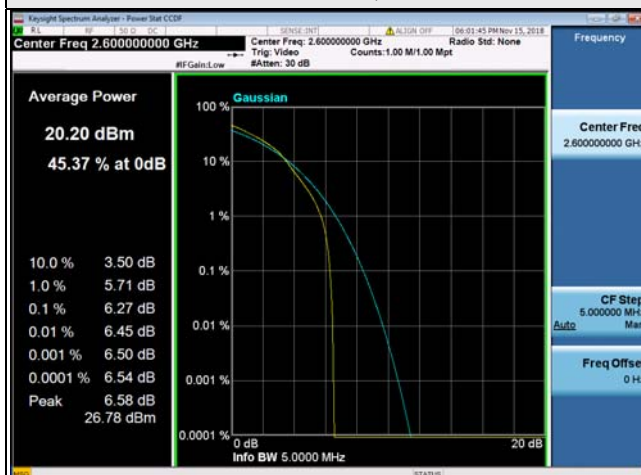
LTE Band 41, Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
40190	2550.0	5.10	6.03
40690	2600.0	5.71	5.90
41190	2650.0	5.30	5.85

LTE Band 41, Channel Bandwidth 15MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
40215	2552.5	5.13	6.19
40690	2600.0	5.16	6.35
41165	2647.5	4.68	6.32

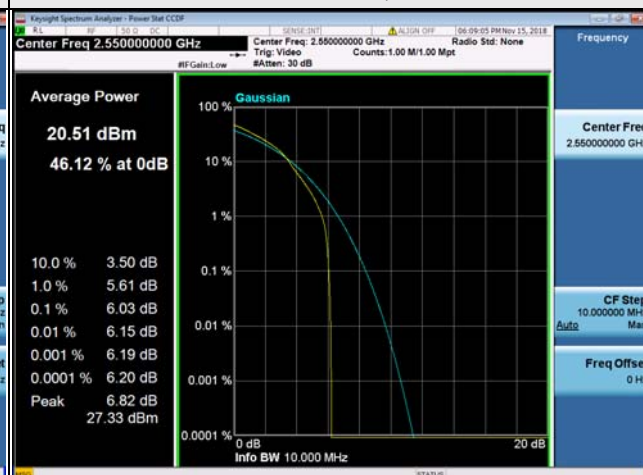
LTE Band 41, Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM
40240	2555.0	5.16	5.63
40690	2600.0	5.41	5.99
41140	2645.0	4.65	6.04

Spectrum Plot Of Worst Value

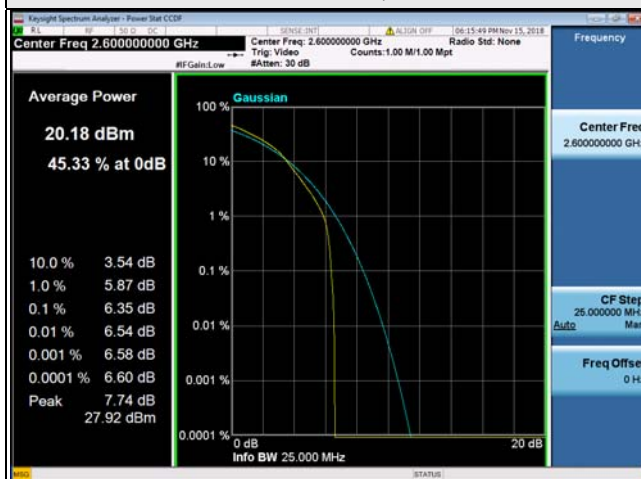
5MHz / 16QAM



10MHz / 16QAM



15MHz / 16QAM



20MHz / 16QAM

