FCC Test Report
(Part 27)

Report No.: RF190114C07-8

FCC ID: MSQI01WD

Test Model: ASUS_I01WD

Received Date: Jan. 14, 2019

Test Date: Jan. 22 ~ Feb. 25, 2019

Issued Date: Feb. 26, 2019

Applicant: ASUSTek COMPUTER INC.

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

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

FCC Registration / Designation Number: 788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
RF190114C07-8	Original release	Feb. 26, 2019

1 Certificate of Conformity

Product: ASUS Phone

Brand: ASUS

Test Model: ASUS_I01WD

Sample Status: Identical Prototype

Applicant: ASUSTek COMPUTER INC.

Test Date: Jan. 22 ~ Feb. 25, 2019

Standards: FCC Part 27, Subpart C, L, 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 : Celine Chou , **Date:** Feb. 26, 2019

Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Feb. 26, 2019

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 38 / LTE Band 41			
2.1046 27.50(d)(4)	2.1046 27.50(h)(2)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
27.50(d)(5)	----	Peak To Average Ratio	Pass	Meet the requirement of limit.
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	2.1049 27.53(m)(6)	Emission Bandwidth	Pass	Meet the requirement of limit.
2.1051 27.53(h)	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)(4)(6)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 27.53(h)	2.1053 27.53 (m)(4)(6)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -18.20dB at 5070.00MHz.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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	ESCI	100424	Jan. 03, 2019	Jan. 02, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 25, 2018	Sep. 24, 2019
Spectrum Analyzer KEYSIGHT	N9030B	MY57140953	Jul. 02, 2018	Jul. 01, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 21, 2018	Nov. 20, 2019
HORN Antenna SCHWARZBECK	9120D	9120D-408	Nov. 25, 2018	Nov. 24, 2019
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 25, 2018	Nov. 24, 2019
Loop Antenna TESEQ	HLA 6121	45745	Jun. 14, 2018	Jun. 13, 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
RF signal cable WOKEN	8D-FB	Cable-CH4-01	Aug. 29, 2018	Aug. 28, 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
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Nov. 14, 2018	Nov. 13, 2019
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

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	ASUS Phone		
Brand	ASUS		
Test Model	ASUS_I01WD		
Status of EUT	Identical Prototype		
Power Supply Rating	3.85 Vdc (Battery) 5 or 9 Vdc (Adapter) 5 Vdc (Host equipment)		
Modulation Type	WCDMA: BPSK, QPSK HSDPA: BPSK HSUPA: QPSK LTE: QPSK, 16QAM, 64QAM		
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 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	2537.5MHz ~ 2652.5MHz
		Channel Bandwidth 10MHz	2540.0MHz ~ 2650.0MHz
		Channel Bandwidth 15MHz	2542.5MHz ~ 2647.5MHz
		Channel Bandwidth 20MHz	2545.0MHz ~ 2645.0MHz

Max. EIRP Power	WCDMA Band 4		190.546mW (22.80dBm)		
			QPSK	16QAM	64QAM
	LTE Band 4	Channel Bandwidth 1.4MHz	91.201mW (19.60dBm)	70.795mW (18.50dBm)	60.256mW (17.80dBm)
		Channel Bandwidth 3MHz	95.499mW (19.80dBm)	70.795mW (18.50dBm)	63.096mW (18.00dBm)
		Channel Bandwidth 5MHz	97.724mW (19.90dBm)	70.795mW (18.50dBm)	61.660mW (17.90dBm)
		Channel Bandwidth 10MHz	95.499mW (19.80dBm)	66.069mW (18.20dBm)	63.096mW (18.00dBm)
		Channel Bandwidth 15MHz	91.201mW (19.60dBm)	66.069mW (18.20dBm)	63.096mW (18.00dBm)
		Channel Bandwidth 20MHz	97.724mW (19.90dBm)	67.608mW (18.30dBm)	61.660mW (17.90dBm)
	LTE Band 7	Channel Bandwidth 5MHz	58.884mW (17.70dBm)	52.481mW (17.20dBm)	46.774mW (16.70dBm)
		Channel Bandwidth 10MHz	57.544mW (17.60dBm)	51.286mW (17.10dBm)	44.668mW (16.50dBm)
		Channel Bandwidth 15MHz	57.544mW (17.60dBm)	50.119mW (17.00dBm)	41.687mW (16.20dBm)
		Channel Bandwidth 20MHz	53.703mW (17.30dBm)	46.774mW (16.70dBm)	41.687mW (16.20dBm)
	LTE Band 38	Channel Bandwidth 5MHz	58.884mW (17.70dBm)	52.481mW (17.20dBm)	44.668mW (16.50dBm)
		Channel Bandwidth 10MHz	61.660mW (17.90dBm)	53.703mW (17.30dBm)	44.668mW (16.50dBm)
		Channel Bandwidth 15MHz	58.884mW (17.70dBm)	50.119mW (17.00dBm)	43.652mW (16.40dBm)
		Channel Bandwidth 20MHz	63.096mW (18.00dBm)	53.703mW (17.30dBm)	45.709mW (16.60dBm)
	LTE Band 41	Channel Bandwidth 5MHz	56.234mW (17.50dBm)	52.481mW (17.20dBm)	46.774mW (16.70dBm)
		Channel Bandwidth 10MHz	57.544mW (17.60dBm)	51.286mW (17.10dBm)	45.709mW (16.60dBm)
		Channel Bandwidth 15MHz	57.544mW (17.60dBm)	50.119mW (17.00dBm)	44.668mW (16.50dBm)
		Channel Bandwidth 20MHz	57.544mW (17.60dBm)	51.286mW (17.10dBm)	45.709mW (16.60dBm)

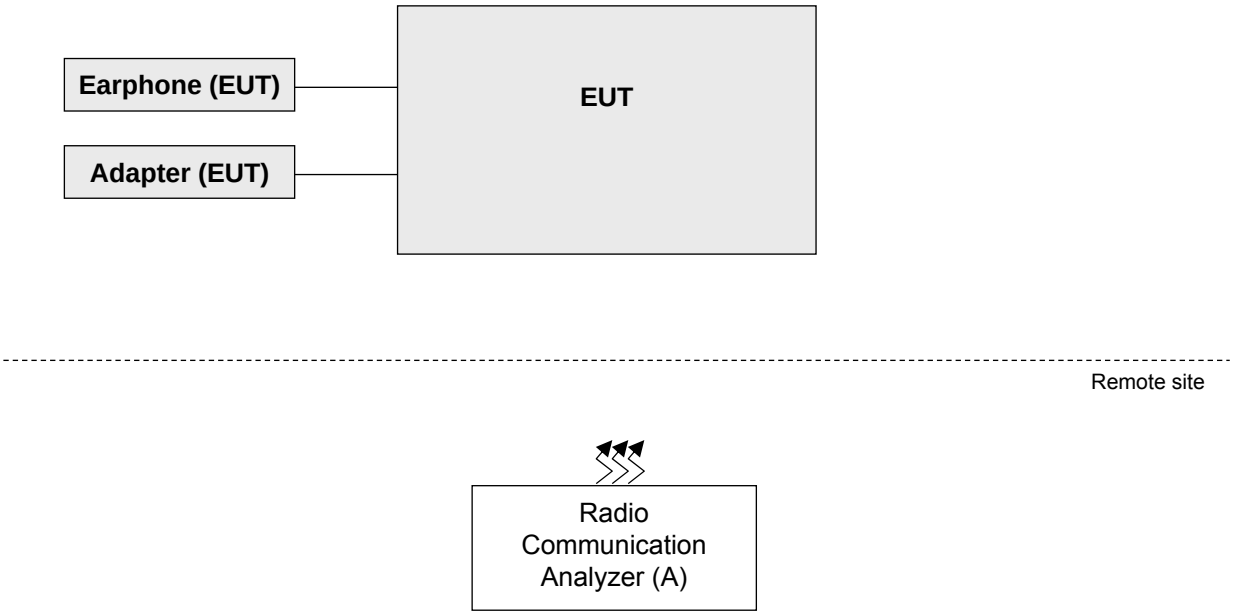
Emission Designator	WCDMA Band 4		4M18F9W		
			QPSK	16QAM	64QAM
	LTE Band 4	Channel Bandwidth 1.4MHz	1M09G7D	1M09D7W	1M09D7W
		Channel Bandwidth 3MHz	2M70G7D	2M70D7W	2M70D7W
		Channel Bandwidth 5MHz	4M49G7D	4M49D7W	4M49D7W
		Channel Bandwidth 10MHz	8M97G7D	8M98D7W	8M97D7W
		Channel Bandwidth 15MHz	13M5G7D	13M5D7W	13M5D7W
		Channel Bandwidth 20MHz	18M0G7D	18M0D7W	18M0D7W
	LTE Band 7	Channel Bandwidth 5MHz	4M50G7D	4M49D7W	4M49D7W
		Channel Bandwidth 10MHz	8M97G7D	8M98D7W	8M97D7W
		Channel Bandwidth 15MHz	13M5G7D	13M5D7W	13M5D7W
		Channel Bandwidth 20MHz	18M0G7D	18M0D7W	18M0D7W
	LTE Band 38	Channel Bandwidth 5MHz	4M49G7D	4M49D7W	4M49D7W
		Channel Bandwidth 10MHz	8M96G7D	8M98D7W	8M97D7W
		Channel Bandwidth 15MHz	13M5G7D	13M5D7W	13M5D7W
		Channel Bandwidth 20MHz	17M9G7D	18M0D7W	18M0D7W
	LTE Band 41	Channel Bandwidth 5MHz	4M50G7D	4M50D7W	4M48D7W
		Channel Bandwidth 10MHz	8M93G7D	8M93D7W	8M93D7W
		Channel Bandwidth 15MHz	13M4G7D	13M4D7W	13M4D7W
		Channel Bandwidth 20MHz	17M9G7D	18M0D7W	17M9D7W
Antenna Type	Refer to Note as below				
Antenna Connector	Refer to Note as below				
Accessory Device	Refer to Note as below				
Cable Supplied	Refer to Note as below				

Note:

1. The EUT accessories list refers to EUT Photo.pdf.
2. The following antennas were provided to the EUT.

Ant. No.	Type	Connector	Gain (dBi)											
			GSM 850	GSM 1900	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B26	LTE B38	LTE B41
WWAN Antenna-0	PIFA	NA	-4.5	-2.6	-2.6	-1.9	-4.5	-2.5	-1.9	-4.5	-1.3	-4.4	-1.0	-1.0
WWAN Antenna-1	PIFA	NA	-3.4	-3.2	-3.2	-5.3	-3.4	-3.2	-5.3	-3.3	-4.7	-3.3	-5.7	-5.7

3.2 Configuration of System under Test



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 Z-plane. Following channel(s) was (were) selected for the final test as listed below.

WCDMA Band 4

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	1513(1752.6MHz)	WCDMA
-	Radiated Emission Above 1GHz	1312 to 1513	1312(1712.4MHz), 1413(1732.6MHz), 1513(1752.6MHz)	WCDMA

Note: For radiated emission below 1GHz, low, mid and high channels were pre-tested E.I.R.P. in chamber. High channel was found to be the worst case and therefore had been chosen for all final tests.

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 / 64QAM	3 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	20050 to 20300	20175(1732.5MHz)	20MHz	QPSK / 16QAM / 64QAM	100 RB / 0 RB Offset
-	Frequency Stability	19957 to 20393	19957(1710.7MHz), 20393(1754.3MHz)	1.4MHz	QPSK	3 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 / 64QAM	6 RB / 0RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK / 16QAM / 64QAM	15 RB / 0RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK / 16QAM / 64QAM	25RB / 0RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK / 16QAM / 64QAM	50RB / 0RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK / 16QAM / 64QAM	75 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK / 16QAM / 64QAM	100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	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
-	Peak To Average Ratio	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM	3 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		19975 to 20375	19975(1712.5MHz), 20175(1732.5MHz), 20375(1752.5MHz)	5MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		20050 to 20300	20050(1720.0MHz), 20175(1732.5MHz), 20300(1745.0MHz)	20MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
-	Conducted Emission	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK	3 RB / 0 RB Offset
		19965 to 20385	19965(1711.5MHz), 20175(1732.5MHz), 20385(1753.5MHz)	3MHz	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
		20000 to 20350	20000(1715.0MHz), 20175(1732.5MHz), 20350(1750.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20025(1717.5MHz), 20175(1732.5MHz), 20325(1747.5MHz)	15MHz	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

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	19957 to 20393	19957(1710.7MHz)	1.4MHz	QPSK	3 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	19957 to 20393	19957(1710.7MHz), 20175(1732.5MHz), 20393(1754.3MHz)	1.4MHz	QPSK	3 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

Note:

1. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber with 1.4MHz mode. Low channel was found to be the worst case and therefore had been chosen for all final tests.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The conducted output power for QPSK, 16QAM and 64QAM, measured value of QPSK is higher than 16QAM and 64QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK, 16QAM and 64QAM modes, the other test items were performed under QPSK mode only.

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 / 64QAM	1 RB / 24 RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK / 16QAM / 64QAM	1 RB / 49 RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK / 16QAM / 64QAM	1 RB / 74 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK / 16QAM / 64QAM	1 RB / 99 RB Offset
-	Modulation Characteristics	2850 to 3350	21100(2535.0MHz)	20MHz	QPSK / 16QAM / 64QAM	100 RB / 0 RB Offset
-	Frequency Stability	2775 to 3425	20775(2502.5MHz), 21425(2567.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset
		2800 to 3400	20800(2505.0MHz), 21400(2565.0MHz),	10MHz	QPSK	1 RB / 49 RB Offset
		2825 to 3375	20825(2507.5MHz), 21375(2562.5MHz)	15MHz	QPSK	1 RB / 74 RB Offset
		2850 to 3350	20850(2510.0MHz), 21350(2560.0MHz)	20MHz	QPSK	1 RB / 99 RB Offset
-	Emission Bandwidth	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK / 16QAM / 64QAM	25RB / 0RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK / 16QAM / 64QAM	50RB / 0RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK / 16QAM / 64QAM	75 RB / 0 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK / 16QAM / 64QAM	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 / 64QAM	1 RB / 24 RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK / 16QAM / 64QAM	1 RB / 49 RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK / 16QAM / 64QAM	1 RB / 74 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK / 16QAM / 64QAM	1 RB / 99 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset
		2800 to 3400	20800(2505.0MHz), 21100(2535.0MHz), 21400(2565.0MHz),	10MHz	QPSK	1 RB / 49 RB Offset
		2825 to 3375	20825(2507.5MHz), 21100(2535.0MHz), 21375(2562.5MHz)	15MHz	QPSK	1 RB / 74 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK	1 RB / 99 RB Offset
-	Radiated Emission Below 1GHz	2775 to 3425	20775(2502.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset
-	Radiated Emission Above 1GHz	2775 to 3425	20775(2502.5MHz), 21100(2535.0MHz), 21425(2567.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset
		2850 to 3350	20850(2510.0MHz), 21100(2535.0MHz), 21350(2560.0MHz)	20MHz	QPSK	1 RB / 99 RB Offset

Note:

1. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber with 5MHz mode. Low channel was found to be the worst case and therefore had been chosen for all final tests.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the 5MHz & highest channel bandwidth for final test.
3. The conducted output power for QPSK, 16QAM and 64QAM, measured value of QPSK is higher than 16QAM and 64QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK, 16QAM and 64QAM modes, the other test items were performed under QPSK mode only.

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 / 64QAM	1 RB / 24 RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK / 16QAM / 64QAM	1 RB / 49 RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK / 16QAM / 64QAM	1 RB / 74 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK / 16QAM / 64QAM	1 RB / 99 RB Offset
-	Modulation Characteristics	37850 to 38150	38000(2595.0MHz)	20MHz	QPSK / 16QAM / 64QAM	100 RB / 0 RB Offset
-	Frequency Stability	37775 to 38225	37775(2572.5MHz), 38225(2617.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset
		37800 to 38200	37800(2575.0MHz), 38200(2615.0MHz)	10MHz	QPSK	1 RB / 49 RB Offset
		37825 to 38175	37825(2577.5MHz), 38175(2612.5MHz)	15MHz	QPSK	1 RB / 74 RB Offset
		37850 to 38150	37850(2580.0MHz), 38150(2610.0MHz)	20MHz	QPSK	1 RB / 99 RB Offset
-	Emission Bandwidth	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK / 16QAM / 64QAM	25RB / 0RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK / 16QAM / 64QAM	50RB / 0RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK / 16QAM / 64QAM	75 RB / 0 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK / 16QAM / 64QAM	100 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 / 64QAM	1 RB / 24 RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK / 16QAM / 64QAM	1 RB / 49 RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK / 16QAM / 64QAM	1 RB / 74 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK / 16QAM / 64QAM	1 RB / 99 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 / 24 RB Offset
		37800 to 38200	37800(2575.0MHz), 38000(2595.0MHz), 38200(2615.0MHz)	10MHz	QPSK	1 RB / 49 RB Offset
		37825 to 38175	37825(2577.5MHz), 38000(2595.0MHz), 38175(2612.5MHz)	15MHz	QPSK	1 RB / 74 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK	1 RB / 99 RB Offset
-	Radiated Emission Below 1GHz	37775 to 38225	37775(2572.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset
-	Radiated Emission Above 1GHz	37775 to 38225	37775(2572.5MHz), 38000(2595.0MHz), 38225(2617.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset
		37850 to 38150	37850(2580.0MHz), 38000(2595.0MHz), 38150(2610.0MHz)	20MHz	QPSK	1 RB / 99 RB Offset

Note:

1. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber with 5MHz mode. Low channel was found to be the worst case and therefore had been chosen for all final tests.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the 5MHz & highest channel bandwidth for final test.
3. The conducted output power for QPSK, 16QAM and 64QAM, measured value of QPSK is higher than 16QAM and 64QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK, 16QAM and 64QAM modes, the other test items were performed under QPSK mode only.

LTE Band 41

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	40065 to 41215	40065(2537.5MHz), 40445(2575.5MHz), 40825(2613.5MHz), 41215(2652.5MHz)	5MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		40090 to 41190	40090(2540.0MHz), 40450(2576.0MHz), 40820(2613.0MHz), 41190(2650.0MHz)	10MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		40115 to 41165	40115(2542.5MHz), 40465(2577.5MHz), 40815(2612.5MHz), 41165(2647.5MHz)	15MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		40140 to 41140	40140(2545.0MHz), 40470(2578.0MHz), 40810(2612.0MHz), 41140(2645.0MHz)	20MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	40140 to 41140	40810(2612.0MHz)	20MHz	QPSK / 16QAM / 64QAM	100 RB / 0 RB Offset
-	Frequency Stability	40065 to 41215	40065(2537.5MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		40090 to 41190	40090(2540.0MHz), 41190(2650.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		40115 to 41165	40115(2542.5MHz), 41165(2647.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		40140 to 41140	40140(2545.0MHz), 41140(2645.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	40065 to 41215	40065(2537.5MHz), 40445(2575.5MHz), 40825(2613.5MHz), 41215(2652.5MHz)	5MHz	QPSK / 16QAM / 64QAM	25RB / 0RB Offset
		40090 to 41190	40090(2540.0MHz), 40450(2576.0MHz), 40820(2613.0MHz), 41190(2650.0MHz)	10MHz	QPSK / 16QAM / 64QAM	50RB / 0RB Offset
		40115 to 41165	40115(2542.5MHz), 40465(2577.5MHz), 40815(2612.5MHz), 41165(2647.5MHz)	15MHz	QPSK / 16QAM / 64QAM	75 RB / 0 RB Offset
		40140 to 41140	40140(2545.0MHz), 40470(2578.0MHz), 40810(2612.0MHz), 41140(2645.0MHz)	20MHz	QPSK / 16QAM / 64QAM	100 RB / 0 RB Offset
-	Band Edge	40065 to 41215	40065(2537.5MHz), 40445(2575.5MHz), 40825(2613.5MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		40090 to 41190	40090(2540.0MHz), 40450(2576.0MHz), 40820(2613.0MHz), 41190(2650.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
		40115 to 41165	40115(2542.5MHz), 40465(2577.5MHz), 40815(2612.5MHz), 41165(2647.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 74 RB Offset 75 RB / 0 RB Offset
		40140 to 41140	40140(2545.0MHz), 40470(2578.0MHz), 40810(2612.0MHz), 41140(2645.0MHz)	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	40065 to 41215	40065(2537.5MHz), 40445(2575.5MHz), 40825(2613.5MHz), 41215(2652.5MHz)	5MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		40090 to 41190	40090(2540.0MHz), 40450(2576.0MHz), 40820(2613.0MHz), 41190(2650.0MHz)	10MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		40115 to 41165	40115(2542.5MHz), 40465(2577.5MHz), 40815(2612.5MHz), 41165(2647.5MHz)	15MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		40140 to 41140	40140(2545.0MHz), 40470(2578.0MHz), 40810(2612.0MHz), 41140(2645.0MHz)	20MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
-	Conducted Emission	40065 to 41215	40065(2537.5MHz), 40445(2575.5MHz), 40825(2613.5MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		40090 to 41190	40090(2540.0MHz), 40450(2576.0MHz), 40820(2613.0MHz), 41190(2650.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		40115 to 41165	40115(2542.5MHz), 40465(2577.5MHz), 40815(2612.5MHz), 41165(2647.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		40140 to 41140	40140(2545.0MHz), 40470(2578.0MHz), 40810(2612.0MHz), 41140(2645.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	40065 to 41215	40065(2537.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	40065 to 41215	40065(2537.5MHz), 40445(2575.5MHz), 40825(2613.5MHz), 41215(2652.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		40140 to 41140	40140(2545.0MHz), 40470(2578.0MHz), 40810(2612.0MHz), 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 5MHz mode. Low channel was found to be the worst case and therefore had been chosen for all final tests.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the 5MHz & highest channel bandwidth for final test.
3. The conducted output power for QPSK, 16QAM and 64QAM, measured value of QPSK is higher than 16QAM and 64QAM mode. Therefore, only Modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under QPSK, 16QAM and 64QAM modes, the other test items were performed under QPSK mode only.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25deg. C, 70%RH	120Vac, 60Hz	Han Wu
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.i.r.p. for LTE Band 7, Band 38, Band 41.

4.1.2 Test Procedures

EIRP / ERP Measurement:

a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5MHz for WCDMA mode, 10MHz 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 = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15dBi.

Where:

$ERP/EIRP = P_{Meas} + G_T - L_C$

P_{Meas} : Measure transmitter output power.
G_T : Gain of the transmitting antenna.
L_C : signal attenuation in the connecting cable between the transmitter and antenna.

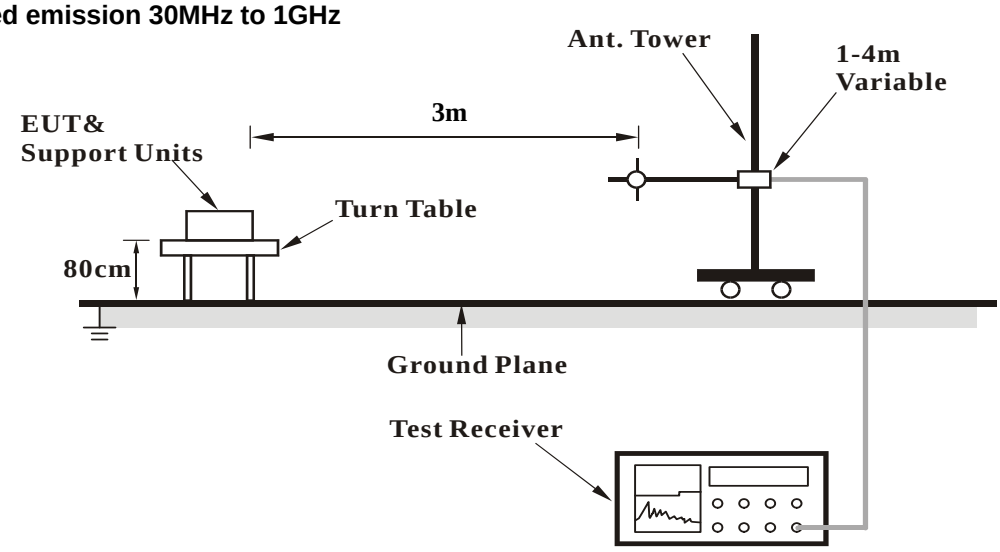
Conducted Power Measurement:

The EUT was set up for the maximum power with GSM, WCDMA, LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

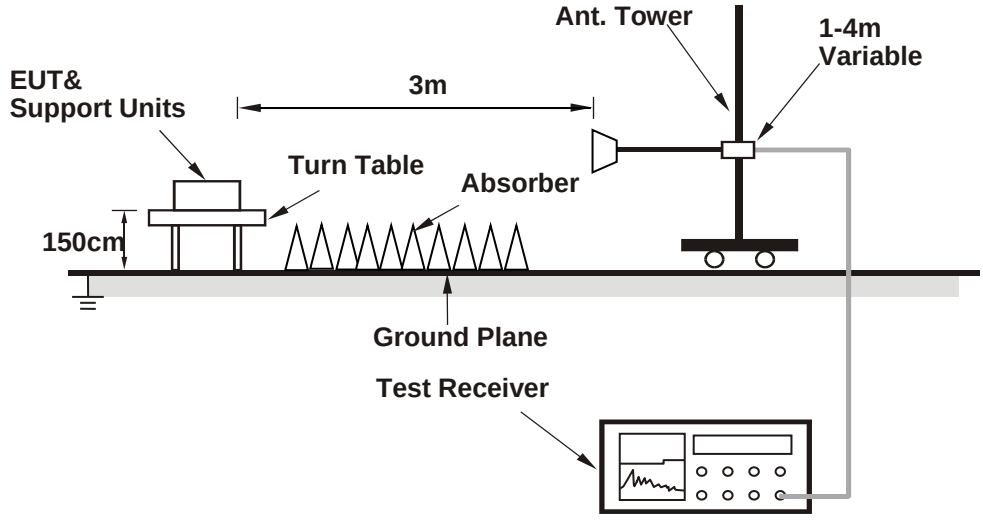
4.1.3 Test Setup

EIRP / ERP Measurement:

For radiated emission 30MHz to 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 IV			
TX Channel	1312	1413	1513	Max. Tune-up Power
Rx Channel	1537	1638	1738	
Frequency	1712.4	1732.6	1752.6	
RMC 12.2K	23.80	23.88	23.62	24.00
HSDPA Subtest-1	22.64	22.70	22.68	23.00
HSDPA Subtest-2	22.63	22.69	22.67	23.00
HSDPA Subtest-3	22.13	22.19	22.17	22.50
HSDPA Subtest-4	22.11	22.17	22.15	22.50
DC-HSDPA Subtest-1	22.62	22.68	22.66	23.00
DC-HSDPA Subtest-2	22.61	22.67	22.65	23.00
DC-HSDPA Subtest-3	22.11	22.17	22.15	22.50
DC-HSDPA Subtest-4	22.09	22.15	22.13	22.50
HSUPA Subtest-1	22.68	22.74	22.72	23.00
HSUPA Subtest-2	20.67	20.73	20.71	21.00
HSUPA Subtest-3	21.65	21.71	21.69	22.00
HSUPA Subtest-4	20.61	20.67	20.65	21.00
HSUPA Subtest-5	22.67	22.73	22.71	23.00

LTE Band 4								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		19957	20175	20393		
		Frequence (MHz)		1710.7	1732.5	1754.3		
1.4M	QPSK	1	0	22.57	22.45	22.36	0	23
		1	2	22.56	22.29	22.32	0	23
		1	5	22.36	22.32	22.19	0	23
		3	0	22.63	22.66	22.50	0	23
		3	1	22.63	22.57	22.55	0	23
		3	3	22.63	22.46	22.46	0	23
		6	0	21.58	21.41	21.51	1	22
	16QAM	1	0	21.38	21.33	21.51	1	22
		1	2	21.35	21.23	21.31	1	22
		1	5	21.43	21.28	21.23	1	22
		3	0	21.57	21.54	21.52	1	22
		3	1	21.58	21.57	21.48	1	22
		3	3	21.43	21.44	21.48	1	22
		6	0	20.52	20.38	20.47	2	21
	64QAM	1	0	20.50	20.45	20.34	2	21
		1	2	20.46	20.33	20.34	2	21
		1	5	20.20	20.27	20.24	2	21
		3	0	20.77	20.43	20.39	2	21
		3	1	20.46	20.52	20.58	2	21
		3	3	20.49	20.38	20.40	2	21
		6	0	19.51	19.33	19.51	3	20

LTE Band 4								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		19965	20175	20385		
		Frequence (MHz)		1711.5	1732.5	1753.5		
3M	QPSK	1	0	22.53	22.49	22.44	0	23
		1	7	22.41	22.24	22.29	0	23
		1	14	22.31	22.23	22.32	0	23
		8	0	21.59	21.61	21.53	1	22
		8	3	21.59	21.57	21.46	1	22
		8	7	21.65	21.56	21.53	1	22
		15	0	21.61	21.51	21.39	1	22
	16QAM	1	0	21.60	21.44	21.40	1	22
		1	7	21.48	21.33	21.37	1	22
		1	14	21.29	21.30	21.22	1	22
		8	0	20.69	20.39	20.43	2	21
		8	3	20.64	20.45	20.48	2	21
		8	7	20.66	20.37	20.40	2	21
		15	0	20.58	20.51	20.38	2	21
	64QAM	1	0	20.41	20.35	20.35	2	21
		1	7	20.32	20.31	20.26	2	21
		1	14	20.33	20.15	20.20	2	21
		8	0	19.50	19.59	19.50	3	20
		8	3	19.55	19.50	19.41	3	20
		8	7	19.48	19.43	19.44	3	20
		15	0	19.55	19.55	19.35	3	20

LTE Band 4								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		19975	20175	20375		
		Frequence (MHz)		1712.5	1732.5	1752.5		
5M	QPSK	1	0	22.55	22.52	22.34	0	23
		1	12	22.37	22.40	22.24	0	23
		1	24	22.38	22.24	22.19	0	23
		12	0	21.58	21.53	21.56	1	22
		12	6	21.68	21.54	21.48	1	22
		12	13	21.65	21.52	21.51	1	22
		25	0	21.60	21.51	21.47	1	22
	16QAM	1	0	21.54	21.45	21.21	1	22
		1	12	21.36	21.30	21.20	1	22
		1	24	21.37	21.30	21.19	1	22
		12	0	20.66	20.53	20.52	2	21
		12	6	20.52	20.45	20.50	2	21
		12	13	20.59	20.41	20.36	2	21
		25	0	20.61	20.42	20.34	2	21
	64QAM	1	0	20.50	20.32	20.37	2	21
		1	12	20.30	20.37	20.21	2	21
		1	24	20.35	20.29	20.20	2	21
		12	0	19.65	19.52	19.44	3	20
		12	6	19.61	19.51	19.40	3	20
		12	13	19.58	19.33	19.36	3	20
		25	0	19.57	19.51	19.58	3	20

LTE Band 4								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20000	20175	20350		
		Frequence (MHz)		1715	1732.5	1750		
10M	QPSK	1	0	22.60	22.45	22.51	0	23
		1	24	22.41	22.33	22.42	0	23
		1	49	22.48	22.27	22.29	0	23
		25	0	21.60	21.63	21.46	1	22
		25	12	21.65	21.62	21.53	1	22
		25	25	21.59	21.42	21.44	1	22
		50	0	21.58	21.46	21.45	1	22
	16QAM	1	0	21.53	21.39	21.35	1	22
		1	24	21.37	21.21	21.32	1	22
		1	49	21.29	21.19	21.21	1	22
		25	0	20.71	20.50	20.52	2	21
		25	12	20.56	20.47	20.42	2	21
		25	25	20.47	20.42	20.42	2	21
		50	0	20.49	20.50	20.48	2	21
	64QAM	1	0	20.45	20.47	20.46	2	21
		1	24	20.41	20.35	20.23	2	21
		1	49	20.36	20.25	20.17	2	21
		25	0	19.73	19.47	19.54	3	20
		25	12	19.63	19.40	19.41	3	20
		25	25	19.68	19.57	19.31	3	20
		50	0	19.50	19.42	19.32	3	20

LTE Band 4								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20025	20175	20325		
		Frequence (MHz)		1717.5	1732.5	1747.5		
15M	QPSK	1	0	22.61	22.49	22.46	0	23
		1	37	22.48	22.42	22.44	0	23
		1	74	22.53	22.39	22.29	0	23
		36	0	21.69	21.65	21.65	1	22
		36	19	21.75	21.66	21.55	1	22
		36	39	21.64	21.60	21.50	1	22
		75	0	21.72	21.60	21.59	1	22
	16QAM	1	0	21.62	21.46	21.44	1	22
		1	37	21.50	21.39	21.39	1	22
		1	74	21.50	21.38	21.32	1	22
		36	0	20.73	20.59	20.60	2	21
		36	19	20.60	20.61	20.56	2	21
		36	39	20.65	20.54	20.43	2	21
		75	0	20.68	20.57	20.52	2	21
	64QAM	1	0	20.54	20.44	20.39	2	21
		1	37	20.46	20.42	20.33	2	21
		1	74	20.43	20.27	20.21	2	21
		36	0	19.73	19.61	19.59	3	20
		36	19	19.67	19.62	19.48	3	20
		36	39	19.62	19.56	19.46	3	20
		75	0	19.67	19.55	19.51	3	20

LTE Band 4								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20050	20175	20300		
		Frequence (MHz)		1720	1732.5	1745		
20M	QPSK	1	0	22.68	22.57	22.54	0	23
		1	50	22.58	22.47	22.44	0	23
		1	99	22.53	22.42	22.39	0	23
		50	0	21.79	21.68	21.65	1	22
		50	25	21.78	21.67	21.64	1	22
		50	50	21.74	21.63	21.60	1	22
		100	0	21.75	21.64	21.61	1	22
	16QAM	1	0	21.63	21.55	21.53	1	22
		1	50	21.50	21.39	21.43	1	22
		1	99	21.51	21.39	21.33	1	22
		50	0	20.74	20.66	20.60	2	21
		50	25	20.73	20.66	20.62	2	21
		50	50	20.64	20.55	20.55	2	21
		100	0	20.70	20.59	20.60	2	21
	64QAM	1	0	20.66	20.56	20.52	2	21
		1	50	20.53	20.37	20.35	2	21
		1	99	20.45	20.36	20.31	2	21
		50	0	19.74	19.61	19.56	3	20
		50	25	19.70	19.63	19.64	3	20
		50	50	19.70	19.58	19.51	3	20
		100	0	19.69	19.56	19.60	3	20

LTE Band 7								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20775	21100	21425		
		Frequence (MHz)		2502.5	2535	2567.5		
5M	QPSK	1	0	22.39	22.44	22.57	0	23
		1	12	22.43	22.48	22.61	0	23
		1	24	22.54	22.59	22.72	0	23
		12	0	21.56	21.61	21.74	1	22
		12	6	21.58	21.63	21.76	1	22
		12	13	21.64	21.69	21.82	1	22
		25	0	21.48	21.53	21.66	1	22
	16QAM	1	0	21.37	21.42	21.55	1	22
		1	12	21.41	21.46	21.59	1	22
		1	24	21.52	21.57	21.70	1	22
		12	0	20.54	20.59	20.72	2	21
		12	6	20.56	20.61	20.74	2	21
		12	13	20.62	20.67	20.80	2	21
		25	0	20.46	20.51	20.64	2	21
	64QAM	1	0	20.33	20.40	20.51	2	21
		1	12	20.37	20.44	20.55	2	21
		1	24	20.48	20.55	20.66	2	21
		12	0	19.50	19.57	19.68	3	20
		12	6	19.52	19.59	19.70	3	20
		12	13	19.58	19.65	19.76	3	20
		25	0	19.42	19.49	19.60	3	20

LTE Band 7								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20800	21100	21400		
		Frequence (MHz)		2505	2535	2565		
10M	QPSK	1	0	22.44	22.49	22.62	0	23
		1	24	22.48	22.53	22.66	0	23
		1	49	22.59	22.64	22.77	0	23
		25	0	21.61	21.66	21.79	1	22
		25	12	21.63	21.68	21.81	1	22
		25	25	21.69	21.74	21.87	1	22
		50	0	21.53	21.58	21.71	1	22
	16QAM	1	0	21.42	21.47	21.60	1	22
		1	24	21.46	21.51	21.64	1	22
		1	49	21.57	21.62	21.75	1	22
		25	0	20.59	20.64	20.77	2	21
		25	12	20.61	20.66	20.79	2	21
		25	25	20.67	20.72	20.85	2	21
		50	0	20.51	20.56	20.69	2	21
	64QAM	1	0	20.38	20.45	20.56	2	21
		1	24	20.42	20.49	20.60	2	21
		1	49	20.53	20.60	20.71	2	21
		25	0	19.55	19.62	19.73	3	20
		25	12	19.57	19.64	19.75	3	20
		25	25	19.63	19.70	19.81	3	20
		50	0	19.47	19.54	19.65	3	20

LTE Band 7								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20825	21100	21375		
		Frequence (MHz)		2507.5	2535	2562.5		
15M	QPSK	1	0	22.41	22.46	22.59	0	23
		1	37	22.45	22.50	22.63	0	23
		1	74	22.56	22.61	22.74	0	23
		36	0	21.58	21.63	21.76	1	22
		36	19	21.60	21.65	21.78	1	22
		36	39	21.66	21.71	21.84	1	22
		75	0	21.50	21.55	21.68	1	22
	16QAM	1	0	21.39	21.44	21.57	1	22
		1	37	21.43	21.48	21.61	1	22
		1	74	21.54	21.59	21.72	1	22
		36	0	20.56	20.61	20.74	2	21
		36	19	20.58	20.63	20.76	2	21
		36	39	20.64	20.69	20.82	2	21
		75	0	20.48	20.53	20.66	2	21
	64QAM	1	0	20.35	20.42	20.53	2	21
		1	37	20.39	20.46	20.57	2	21
		1	74	20.50	20.57	20.68	2	21
		36	0	19.52	19.59	19.70	3	20
		36	19	19.54	19.61	19.72	3	20
		36	39	19.60	19.67	19.78	3	20
		75	0	19.44	19.51	19.62	3	20

LTE Band 7								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		20850	21100	21350		
		Frequence (MHz)		2510	2535	2560		
20M	QPSK	1	0	22.49	22.54	22.67	0	23
		1	50	22.53	22.58	22.71	0	23
		1	99	22.64	22.69	22.82	0	23
		50	0	21.66	21.71	21.84	1	22
		50	25	21.68	21.73	21.86	1	22
		50	50	21.74	21.79	21.92	1	22
		100	0	21.58	21.63	21.76	1	22
	16QAM	1	0	21.47	21.52	21.65	1	22
		1	50	21.51	21.56	21.69	1	22
		1	99	21.62	21.67	21.80	1	22
		50	0	20.64	20.69	20.82	2	21
		50	25	20.66	20.71	20.84	2	21
		50	50	20.72	20.77	20.90	2	21
		100	0	20.56	20.61	20.74	2	21
	64QAM	1	0	20.43	20.50	20.61	2	21
		1	50	20.47	20.54	20.65	2	21
		1	99	20.58	20.65	20.76	2	21
		50	0	19.60	19.67	19.78	3	20
		50	25	19.62	19.69	19.80	3	20
		50	50	19.68	19.75	19.86	3	20
		100	0	19.52	19.59	19.70	3	20

LTE Band 38								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37775	38000	38225		
		Frequence (MHz)		2572.5	2595	2617.5		
5M	QPSK	1	0	22.39	22.37	22.41	0	23
		1	12	22.51	22.49	22.53	0	23
		1	24	22.63	22.61	22.65	0	23
		12	0	21.55	21.53	21.57	1	22
		12	6	21.61	21.59	21.63	1	22
		12	13	21.63	21.61	21.65	1	22
		25	0	21.56	21.54	21.58	1	22
	16QAM	1	0	21.37	21.35	21.39	1	22
		1	12	21.49	21.47	21.51	1	22
		1	24	21.61	21.59	21.63	1	22
		12	0	20.53	20.51	20.55	2	21
		12	6	20.59	20.57	20.61	2	21
		12	13	20.61	20.59	20.63	2	21
		25	0	20.54	20.52	20.56	2	21
	64QAM	1	0	20.33	20.31	20.35	2	21
		1	12	20.45	20.43	20.47	2	21
		1	24	20.57	20.55	20.59	2	21
		12	0	19.49	19.47	19.51	3	20
		12	6	19.55	19.53	19.57	3	20
		12	13	19.57	19.55	19.59	3	20
		25	0	19.50	19.48	19.52	3	20

LTE Band 38								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37800	38000	38200		
		Frequence (MHz)		2575	2595	2615		
10M	QPSK	1	0	22.41	22.39	22.43	0	23
		1	24	22.53	22.51	22.55	0	23
		1	49	22.65	22.63	22.67	0	23
		25	0	21.57	21.55	21.59	1	22
		25	12	21.63	21.61	21.65	1	22
		25	25	21.65	21.63	21.67	1	22
		50	0	21.58	21.56	21.60	1	22
	16QAM	1	0	21.39	21.37	21.41	1	22
		1	24	21.51	21.49	21.53	1	22
		1	49	21.63	21.61	21.65	1	22
		25	0	20.55	20.53	20.57	2	21
		25	12	20.61	20.59	20.63	2	21
		25	25	20.63	20.61	20.65	2	21
		50	0	20.56	20.54	20.58	2	21
	64QAM	1	0	20.35	20.33	20.37	2	21
		1	24	20.47	20.45	20.49	2	21
		1	49	20.59	20.57	20.61	2	21
		25	0	19.51	19.49	19.53	3	20
		25	12	19.57	19.55	19.59	3	20
		25	25	19.59	19.57	19.61	3	20
		50	0	19.52	19.50	19.54	3	20

LTE Band 38								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37825	38000	38175		
		Frequence (MHz)		2577.5	2595	2612.5		
15M	QPSK	1	0	22.45	22.43	22.47	0	23
		1	37	22.57	22.55	22.59	0	23
		1	74	22.69	22.67	22.71	0	23
		36	0	21.61	21.59	21.63	1	22
		36	19	21.67	21.65	21.69	1	22
		36	39	21.69	21.67	21.71	1	22
		75	0	21.62	21.60	21.64	1	22
	16QAM	1	0	21.43	21.41	21.45	1	22
		1	37	21.55	21.53	21.57	1	22
		1	74	21.67	21.65	21.69	1	22
		36	0	20.59	20.57	20.61	2	21
		36	19	20.65	20.63	20.67	2	21
		36	39	20.67	20.65	20.69	2	21
		75	0	20.60	20.58	20.62	2	21
	64QAM	1	0	20.39	20.37	20.41	2	21
		1	37	20.51	20.49	20.53	2	21
		1	74	20.63	20.61	20.65	2	21
		36	0	19.55	19.53	19.57	3	20
		36	19	19.61	19.59	19.63	3	20
		36	39	19.63	19.61	19.65	3	20
		75	0	19.56	19.54	19.58	3	20

LTE Band 38								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		37850	38000	38150		
		Frequence (MHz)		2580	2595	2610		
20M	QPSK	1	0	22.51	22.49	22.53	0	23
		1	50	22.63	22.61	22.65	0	23
		1	99	22.75	22.73	22.77	0	23
		50	0	21.67	21.65	21.69	1	22
		50	25	21.73	21.71	21.75	1	22
		50	50	21.75	21.73	21.77	1	22
		100	0	21.68	21.66	21.70	1	22
	16QAM	1	0	21.49	21.47	21.51	1	22
		1	50	21.61	21.59	21.63	1	22
		1	99	21.73	21.71	21.75	1	22
		50	0	20.65	20.63	20.67	2	21
		50	25	20.71	20.69	20.73	2	21
		50	50	20.73	20.71	20.75	2	21
		100	0	20.66	20.64	20.68	2	21
	64QAM	1	0	20.45	20.43	20.47	2	21
		1	50	20.57	20.55	20.59	2	21
		1	99	20.69	20.67	20.71	2	21
		50	0	19.61	19.59	19.63	3	20
		50	25	19.67	19.65	19.69	3	20
		50	50	19.69	19.67	19.71	3	20
		100	0	19.62	19.60	19.64	3	20

LTE Band 41									
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		40065	40445	40825	41215		
		Frequence (MHz)		2537.5	2575.5	2613.5	2652.5		
5M	QPSK	1	0	22.75	22.36	22.39	22.77	0	23
		1	12	22.72	22.33	22.36	22.74	0	23
		1	24	22.57	22.18	22.21	22.59	0	23
		12	0	21.80	21.41	21.44	21.82	1	22
		12	6	21.77	21.38	21.41	21.79	1	22
		12	13	21.75	21.36	21.39	21.77	1	22
		25	0	21.78	21.39	21.42	21.80	1	22
	16QAM	1	0	21.73	21.34	21.37	21.75	1	22
		1	12	21.70	21.31	21.34	21.72	1	22
		1	24	21.55	21.16	21.19	21.57	1	22
		12	0	20.78	20.39	20.42	20.80	2	21
		12	6	20.75	20.36	20.39	20.77	2	21
		12	13	20.73	20.34	20.37	20.75	2	21
		25	0	20.76	20.37	20.40	20.78	2	21
	64QAM	1	0	20.70	20.31	20.34	20.72	2	21
		1	12	20.67	20.28	20.31	20.69	2	21
		1	24	20.52	20.13	20.16	20.54	2	21
		12	0	19.75	19.36	19.39	19.77	3	20
		12	6	19.72	19.33	19.36	19.74	3	20
		12	13	19.70	19.31	19.34	19.72	3	20
		25	0	19.73	19.34	19.37	19.75	3	20

LTE Band 41									
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		40090	40450	40820	41190		
		Frequence (MHz)		2540	2576	2613	2650		
10M	QPSK	1	0	22.79	22.40	22.43	22.81	0	23
		1	24	22.76	22.37	22.40	22.78	0	23
		1	49	22.61	22.22	22.25	22.63	0	23
		25	0	21.84	21.45	21.48	21.86	1	22
		25	12	21.81	21.42	21.45	21.83	1	22
		25	25	21.79	21.40	21.43	21.81	1	22
		50	0	21.82	21.43	21.46	21.84	1	22
	16QAM	1	0	21.77	21.38	21.41	21.79	1	22
		1	24	21.74	21.35	21.38	21.76	1	22
		1	49	21.59	21.20	21.23	21.61	1	22
		25	0	20.82	20.43	20.46	20.84	2	21
		25	12	20.79	20.40	20.43	20.81	2	21
		25	25	20.77	20.38	20.41	20.79	2	21
		50	0	20.80	20.41	20.44	20.82	2	21
	64QAM	1	0	20.74	20.35	20.38	20.76	2	21
		1	24	20.71	20.32	20.35	20.73	2	21
		1	49	20.56	20.17	20.20	20.58	2	21
		25	0	19.79	19.40	19.43	19.81	3	20
		25	12	19.76	19.37	19.40	19.78	3	20
		25	25	19.74	19.35	19.38	19.76	3	20
		50	0	19.77	19.38	19.41	19.79	3	20

LTE Band 41									
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		40115	40465	40815	41165		
		Frequence (MHz)		2542.5	2577.5	2612.5	2647.5		
15M	QPSK	1	0	22.82	22.43	22.46	22.84	0	23
		1	37	22.79	22.40	22.43	22.81	0	23
		1	74	22.64	22.25	22.28	22.66	0	23
		36	0	21.87	21.48	21.51	21.89	1	22
		36	19	21.84	21.45	21.48	21.86	1	22
		36	39	21.82	21.43	21.46	21.84	1	22
		75	0	21.85	21.46	21.49	21.87	1	22
	16QAM	1	0	21.80	21.41	21.44	21.82	1	22
		1	37	21.77	21.38	21.41	21.79	1	22
		1	74	21.62	21.23	21.26	21.64	1	22
		36	0	20.85	20.46	20.49	20.87	2	21
		36	19	20.82	20.43	20.46	20.84	2	21
		36	39	20.80	20.41	20.44	20.82	2	21
		75	0	20.83	20.44	20.47	20.85	2	21
	64QAM	1	0	20.77	20.38	20.41	20.79	2	21
		1	37	20.74	20.35	20.38	20.76	2	21
		1	74	20.59	20.20	20.23	20.61	2	21
		36	0	19.82	19.43	19.46	19.84	3	20
		36	19	19.79	19.40	19.43	19.81	3	20
		36	39	19.77	19.38	19.41	19.79	3	20
		75	0	19.80	19.41	19.44	19.82	3	20

LTE Band 41									
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		40140	40470	40810	41140		
		Frequence (MHz)		2545	2578	2612	2645		
20M	QPSK	1	0	22.87	22.48	22.51	22.89	0	23
		1	50	22.84	22.45	22.48	22.86	0	23
		1	99	22.69	22.30	22.33	22.71	0	23
		50	0	21.92	21.53	21.56	21.94	1	22
		50	25	21.89	21.50	21.53	21.91	1	22
		50	50	21.87	21.48	21.51	21.89	1	22
		100	0	21.90	21.51	21.54	21.92	1	22
	16QAM	1	0	21.85	21.46	21.49	21.87	1	22
		1	50	21.82	21.43	21.46	21.84	1	22
		1	99	21.67	21.28	21.31	21.69	1	22
		50	0	20.90	20.51	20.54	20.92	2	21
		50	25	20.87	20.48	20.51	20.89	2	21
		50	50	20.85	20.46	20.49	20.87	2	21
		100	0	20.88	20.49	20.52	20.90	2	21
	64QAM	1	0	20.82	20.43	20.46	20.84	2	21
		1	50	20.79	20.40	20.43	20.81	2	21
		1	99	20.64	20.25	20.28	20.66	2	21
		50	0	19.87	19.48	19.51	19.89	3	20
		50	25	19.84	19.45	19.48	19.86	3	20
		50	50	19.82	19.43	19.46	19.84	3	20
		100	0	19.85	19.46	19.49	19.87	3	20

EIRP Power

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	-17.30	20.70	0.70	21.40	30.00	-8.60
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	1712.40	-21.60	16.20	0.70	16.90	30.00	-13.10

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	-16.80	21.60	0.60	22.20	30.00	-7.80
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	1732.60	-21.30	17.10	0.60	17.70	30.00	-12.30

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	-16.50	22.30	0.50	22.80	30.00	-7.20
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	1752.60	-20.90	17.90	0.50	18.40	30.00	-11.60

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	-19.90	18.50	1.00	19.50	30.00	-10.50
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	1710.70	-23.00	16.20	1.00	17.20	30.00	-12.80

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	-20.50	18.20	1.00	19.20	30.00	-10.80
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	-22.90	16.30	1.00	17.30	30.00	-12.70

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	-20.30	18.50	1.10	19.60	30.00	-10.40
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	1754.30	-23.20	15.90	1.10	17.00	30.00	-13.00

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

LTE Band 4, 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	-19.70	18.80	1.00	19.80	30.00	-10.20
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	1711.50	-23.40	15.80	1.00	16.80	30.00	-13.20

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	-20.50	18.20	1.00	19.20	30.00	-10.80
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	-23.00	16.20	1.00	17.20	30.00	-12.80

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	-20.40	18.40	1.10	19.50	30.00	-10.50
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	1753.50	-22.80	16.30	1.10	17.40	30.00	-12.60

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

LTE Band 4, 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	-19.60	18.90	1.00	19.90	30.00	-10.10
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	1712.50	-23.20	16.00	1.00	17.00	30.00	-13.00

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	-20.30	18.40	1.00	19.40	30.00	-10.60
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	-22.70	16.50	1.00	17.50	30.00	-12.50

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	-20.80	17.90	1.10	19.00	30.00	-11.00
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	1752.50	-22.70	16.40	1.10	17.50	30.00	-12.50

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

LTE Band 4, 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	-20.20	18.30	1.00	19.30	30.00	-10.70
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	-23.00	16.20	1.00	17.20	30.00	-12.80

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	-20.20	18.50	1.00	19.50	30.00	-10.50
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	1732.50	-22.60	16.60	1.00	17.60	30.00	-12.40

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	-20.00	18.70	1.10	19.80	30.00	-10.20
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	1750.00	-23.30	15.80	1.10	16.90	30.00	-13.10

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

LTE Band 4, 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	-20.00	18.50	1.00	19.50	30.00	-10.50
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	1717.50	-22.90	16.30	1.00	17.30	30.00	-12.70

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	-20.10	18.60	1.00	19.60	30.00	-10.40
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	1732.50	-23.20	16.00	1.00	17.00	30.00	-13.00

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	-20.70	18.00	1.10	19.10	30.00	-10.90
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	1747.50	-22.50	16.60	1.10	17.70	30.00	-12.30

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

LTE Band 4, 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	-20.10	18.40	1.00	19.40	30.00	-10.60
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	1720.00	-23.10	16.10	1.00	17.10	30.00	-12.90

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	-20.10	18.60	1.00	19.60	30.00	-10.40
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	1732.50	-23.00	16.20	1.00	17.20	30.00	-12.80

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	-19.90	18.90	1.00	19.90	30.00	-10.10
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	1745.00	-22.90	16.30	1.00	17.30	30.00	-12.70

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	-32.90	9.60	0.70	10.30	33.00	-22.70
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	2502.50	-25.80	16.80	0.70	17.50	33.00	-15.50

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	-33.20	9.40	0.70	10.10	33.00	-22.90
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	2535.00	-25.90	17.00	0.70	17.70	33.00	-15.30

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	-33.40	9.20	0.80	10.00	33.00	-23.00
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	2567.50	-26.40	16.60	0.80	17.40	33.00	-15.60

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

LTE Band 7, 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	-32.80	9.70	0.70	10.40	33.00	-22.60
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	2505.00	-25.80	16.80	0.70	17.50	33.00	-15.50

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	-32.90	9.70	0.70	10.40	33.00	-22.60
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	2535.00	-26.30	16.60	0.70	17.30	33.00	-15.70

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	-33.50	9.10	0.80	9.90	33.00	-23.10
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	2565.00	-26.20	16.80	0.80	17.60	33.00	-15.40

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

LTE Band 7, 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	-33.00	9.50	0.70	10.20	33.00	-22.80
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	2507.50	-26.20	16.40	0.70	17.10	33.00	-15.90

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	-33.50	9.10	0.70	9.80	33.00	-23.20
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	2535.00	-26.20	16.70	0.70	17.40	33.00	-15.60

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	-33.40	9.20	0.80	10.00	33.00	-23.00
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	2562.50	-26.20	16.80	0.80	17.60	33.00	-15.40

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

LTE Band 7, 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	-33.50	9.00	0.70	9.70	33.00	-23.30
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	2510.00	-26.20	16.50	0.70	17.20	33.00	-15.80

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	-32.90	9.70	0.70	10.40	33.00	-22.60
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	2535.00	-26.50	16.40	0.70	17.10	33.00	-15.90

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	-33.20	9.30	0.80	10.10	33.00	-22.90
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	2560.00	-26.50	16.50	0.80	17.30	33.00	-15.70

Note: EIRP (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	-33.20	9.40	0.80	10.20	33.00	-22.80
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	2572.50	-26.40	16.70	0.80	17.50	33.00	-15.50

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	-33.40	9.10	0.90	10.00	33.00	-23.00
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	-26.30	16.80	0.90	17.70	33.00	-15.30

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	-33.50	9.10	0.90	10.00	33.00	-23.00
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	2617.50	-26.70	16.50	0.90	17.40	33.00	-15.60

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

LTE Band 38, 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	-32.90	9.70	0.80	10.50	33.00	-22.50
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	2575.00	-26.30	16.80	0.80	17.60	33.00	-15.40

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	-33.00	9.50	0.90	10.40	33.00	-22.60
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	2595.00	-26.30	16.80	0.90	17.70	33.00	-15.30

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	-32.90	9.70	0.90	10.60	33.00	-22.40
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	2615.00	-26.20	17.00	0.90	17.90	33.00	-15.10

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

LTE Band 38, 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	-33.20	9.40	0.80	10.20	33.00	-22.80
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	2577.50	-26.20	16.90	0.80	17.70	33.00	-15.30

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	-33.30	9.20	0.90	10.10	33.00	-22.90
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	-26.50	16.60	0.90	17.50	33.00	-15.50

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	-33.10	9.50	0.90	10.40	33.00	-22.60
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	-26.80	16.40	0.90	17.30	33.00	-15.70

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

LTE Band 38, 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	-33.20	9.40	0.80	10.20	33.00	-22.80
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	2580.00	-26.30	16.80	0.80	17.60	33.00	-15.40

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	-33.40	9.10	0.90	10.00	33.00	-23.00
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	-26.00	17.10	0.90	18.00	33.00	-15.00

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	-32.90	9.70	0.90	10.60	33.00	-22.40
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	2610.00	-26.30	16.90	0.90	17.80	33.00	-15.20

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

LTE Band 41, Channel Bandwidth: 5MHz

Mode		TX channel 40065					
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	2537.50	-33.10	9.40	0.80	10.20	33.00	-22.80
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	2537.50	-26.10	16.70	0.80	17.50	33.00	-15.50

Mode		TX channel 40445					
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	2575.50	-33.50	9.10	0.80	9.90	33.00	-23.10
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	2575.50	-26.80	16.30	0.80	17.10	33.00	-15.90

Mode		TX channel 40825					
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	2613.50	-33.40	9.20	0.90	10.10	33.00	-22.90
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	2613.50	-26.60	16.60	0.90	17.50	33.00	-15.50

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	-32.90	9.70	0.90	10.60	33.00	-22.40
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	2652.50	-27.00	16.40	0.90	17.30	33.00	-15.70

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

LTE Band 41, Channel Bandwidth: 10MHz

Mode		TX channel 40090					
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	2540.00	-33.00	9.50	0.80	10.30	33.00	-22.70
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	2540.00	-26.10	16.70	0.80	17.50	33.00	-15.50

Mode		TX channel 40450					
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	2576.00	-33.60	9.00	0.80	9.80	33.00	-23.20
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	2576.00	-26.70	16.40	0.80	17.20	33.00	-15.80

Mode		TX channel 40820					
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	2613.00	-33.70	8.90	0.90	9.80	33.00	-23.20
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	2613.00	-26.50	16.70	0.90	17.60	33.00	-15.40

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	-32.70	9.90	0.90	10.80	33.00	-22.20
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	2650.00	-26.90	16.50	0.90	17.40	33.00	-15.60

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

LTE Band 41, Channel Bandwidth: 15MHz

Mode		TX channel 40115					
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	2542.50	-33.00	9.50	0.80	10.30	33.00	-22.70
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	2542.50	-26.40	16.40	0.80	17.20	33.00	-15.80

Mode		TX channel 40465					
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	-33.80	8.80	0.80	9.60	33.00	-23.40
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	2577.50	-26.80	16.30	0.80	17.10	33.00	-15.90

Mode		TX channel 40815					
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	-33.50	9.10	0.90	10.00	33.00	-23.00
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	-26.60	16.60	0.90	17.50	33.00	-15.50

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	-33.30	9.30	0.90	10.20	33.00	-22.80
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	2647.50	-26.70	16.70	0.90	17.60	33.00	-15.40

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

LTE Band 41, Channel Bandwidth: 20MHz

Mode		TX channel 40140					
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	2545.00	-33.00	9.50	0.80	10.30	33.00	-22.70
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	2545.00	-26.30	16.50	0.80	17.30	33.00	-15.70

Mode		TX channel 40470					
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	2578.00	-33.90	8.70	0.80	9.50	33.00	-23.50
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	2578.00	-26.70	16.40	0.80	17.20	33.00	-15.80

Mode		TX channel 40810					
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	2612.00	-33.50	9.10	0.90	10.00	33.00	-23.00
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	2612.00	-26.50	16.70	0.90	17.60	33.00	-15.40

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	-33.10	9.50	0.90	10.40	33.00	-22.60
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	2645.00	-27.10	16.30	0.90	17.20	33.00	-15.80

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	-21.10	17.30	1.00	18.30	30.00	-11.70
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	1710.70	-24.10	15.10	1.00	16.10	30.00	-13.90

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	-21.40	17.30	1.00	18.30	30.00	-11.70
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	1732.50	-24.20	15.00	1.00	16.00	30.00	-14.00

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	-21.40	17.40	1.10	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	1754.30	-24.00	15.10	1.10	16.20	30.00	-13.80

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

LTE Band 4, 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	-21.00	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	1711.50	-24.20	15.00	1.00	16.00	30.00	-14.00

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	-21.60	17.10	1.00	18.10	30.00	-11.90
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	1732.50	-24.40	14.80	1.00	15.80	30.00	-14.20

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	-21.70	17.10	1.10	18.20	30.00	-11.80
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	1753.50	-24.40	14.70	1.10	15.80	30.00	-14.20

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

LTE Band 4, 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	-21.00	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	1712.50	-24.20	15.00	1.00	16.00	30.00	-14.00

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	-21.40	17.30	1.00	18.30	30.00	-11.70
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	1732.50	-24.20	15.00	1.00	16.00	30.00	-14.00

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	-21.70	17.00	1.10	18.10	30.00	-11.90
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	1752.50	-24.00	15.10	1.10	16.20	30.00	-13.80

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

LTE Band 4, 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	-21.40	17.10	1.00	18.10	30.00	-11.90
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	1715.00	-23.90	15.30	1.00	16.30	30.00	-13.70

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	-21.50	17.20	1.00	18.20	30.00	-11.80
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	-24.30	14.90	1.00	15.90	30.00	-14.10

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	-21.60	17.10	1.10	18.20	30.00	-11.80
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	1750.00	-24.30	14.80	1.10	15.90	30.00	-14.10

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

LTE Band 4, 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	-21.30	17.20	1.00	18.20	30.00	-11.80
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	1717.50	-23.90	15.30	1.00	16.30	30.00	-13.70

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	-21.60	17.10	1.00	18.10	30.00	-11.90
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	1732.50	-24.00	15.20	1.00	16.20	30.00	-13.80

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	-21.70	17.00	1.10	18.10	30.00	-11.90
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	1747.50	-24.20	14.90	1.10	16.00	30.00	-14.00

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

LTE Band 4, 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	-21.20	17.30	1.00	18.30	30.00	-11.70
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	1720.00	-24.20	15.00	1.00	16.00	30.00	-14.00

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	-21.50	17.20	1.00	18.20	30.00	-11.80
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	-24.30	14.90	1.00	15.90	30.00	-14.10

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	-21.60	17.20	1.00	18.20	30.00	-11.80
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	1745.00	-24.30	14.90	1.00	15.90	30.00	-14.10

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	-33.50	9.00	0.70	9.70	33.00	-23.30
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	2502.50	-26.30	16.30	0.70	17.00	33.00	-16.00

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	-33.60	9.00	0.70	9.70	33.00	-23.30
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	-26.40	16.50	0.70	17.20	33.00	-15.80

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	-33.80	8.80	0.80	9.60	33.00	-23.40
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	-26.90	16.10	0.80	16.90	33.00	-16.10

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

LTE Band 7, 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	-33.50	9.00	0.70	9.70	33.00	-23.30
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	2505.00	-26.20	16.40	0.70	17.10	33.00	-15.90

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	-33.40	9.20	0.70	9.90	33.00	-23.10
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	2535.00	-26.80	16.10	0.70	16.80	33.00	-16.20

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	-33.90	8.70	0.80	9.50	33.00	-23.50
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	2565.00	-26.80	16.20	0.80	17.00	33.00	-16.00

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

LTE Band 7, 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	-33.50	9.00	0.70	9.70	33.00	-23.30
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	2507.50	-26.80	15.80	0.70	16.50	33.00	-16.50

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	-33.90	8.70	0.70	9.40	33.00	-23.60
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	2535.00	-26.70	16.20	0.70	16.90	33.00	-16.10

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	-33.90	8.70	0.80	9.50	33.00	-23.50
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	2562.50	-26.80	16.20	0.80	17.00	33.00	-16.00

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

LTE Band 7, 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	-33.90	8.60	0.70	9.30	33.00	-23.70
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	2510.00	-26.80	15.90	0.70	16.60	33.00	-16.40

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	-33.20	9.40	0.70	10.10	33.00	-22.90
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	2535.00	-26.90	16.00	0.70	16.70	33.00	-16.30

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	-33.80	8.70	0.80	9.50	33.00	-23.50
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	2560.00	-27.10	15.90	0.80	16.70	33.00	-16.30

Note: EIRP (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	-33.90	8.70	0.80	9.50	33.00	-23.50
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	-26.90	16.20	0.80	17.00	33.00	-16.00

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	-33.80	8.70	0.90	9.60	33.00	-23.40
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	-26.80	16.30	0.90	17.20	33.00	-15.80

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	-34.20	8.40	0.90	9.30	33.00	-23.70
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	2617.50	-27.30	15.90	0.90	16.80	33.00	-16.20

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

LTE Band 38, 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	-33.60	9.00	0.80	9.80	33.00	-23.20
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	2575.00	-26.90	16.20	0.80	17.00	33.00	-16.00

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	-33.60	8.90	0.90	9.80	33.00	-23.20
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	-27.00	16.10	0.90	17.00	33.00	-16.00

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	-33.50	9.10	0.90	10.00	33.00	-23.00
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	2615.00	-26.80	16.40	0.90	17.30	33.00	-15.70

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

LTE Band 38, 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	-33.70	8.90	0.80	9.70	33.00	-23.30
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	2577.50	-26.90	16.20	0.80	17.00	33.00	-16.00

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	-33.90	8.60	0.90	9.50	33.00	-23.50
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	-27.10	16.00	0.90	16.90	33.00	-16.10

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	-33.80	8.80	0.90	9.70	33.00	-23.30
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	2612.50	-27.30	15.90	0.90	16.80	33.00	-16.20

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

LTE Band 38, 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	-33.80	8.80	0.80	9.60	33.00	-23.40
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	2580.00	-26.90	16.20	0.80	17.00	33.00	-16.00

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	-33.90	8.60	0.90	9.50	33.00	-23.50
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	-26.70	16.40	0.90	17.30	33.00	-15.70

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	-33.60	9.00	0.90	9.90	33.00	-23.10
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	-26.80	16.40	0.90	17.30	33.00	-15.70

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

LTE Band 41, Channel Bandwidth: 5MHz

Mode		TX channel 40065					
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	2537.50	-33.70	8.80	0.80	9.60	33.00	-23.40
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	2537.50	-26.80	16.00	0.80	16.80	33.00	-16.20

Mode		TX channel 40445					
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	2575.50	-34.00	8.60	0.80	9.40	33.00	-23.60
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	2575.50	-27.20	15.90	0.80	16.70	33.00	-16.30

Mode		TX channel 40825					
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	2613.50	-33.90	8.70	0.90	9.60	33.00	-23.40
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	2613.50	-26.90	16.30	0.90	17.20	33.00	-15.80

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	-33.40	9.20	0.90	10.10	33.00	-22.90
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	2652.50	-27.70	15.70	0.90	16.60	33.00	-16.40

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

LTE Band 41, Channel Bandwidth: 10MHz

Mode		TX channel 40090					
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	2540.00	-33.50	9.00	0.80	9.80	33.00	-23.20
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	2540.00	-26.80	16.00	0.80	16.80	33.00	-16.20

Mode		TX channel 40450					
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	2576.00	-34.20	8.40	0.80	9.20	33.00	-23.80
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	2576.00	-27.30	15.80	0.80	16.60	33.00	-16.40

Mode		TX channel 40820					
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	2613.00	-34.20	8.40	0.90	9.30	33.00	-23.70
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	2613.00	-27.00	16.20	0.90	17.10	33.00	-15.90

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	-33.30	9.30	0.90	10.20	33.00	-22.80
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	2650.00	-27.50	15.90	0.90	16.80	33.00	-16.20

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

LTE Band 41, Channel Bandwidth: 15MHz

Mode		TX channel 40115					
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	2542.50	-33.70	8.80	0.80	9.60	33.00	-23.40
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	2542.50	-27.10	15.70	0.80	16.50	33.00	-16.50

Mode		TX channel 40465					
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	-34.30	8.30	0.80	9.10	33.00	-23.90
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	-27.20	15.90	0.80	16.70	33.00	-16.30

Mode		TX channel 40815					
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	-33.90	8.70	0.90	9.60	33.00	-23.40
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	2612.50	-27.10	16.10	0.90	17.00	33.00	-16.00

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	-33.80	8.80	0.90	9.70	33.00	-23.30
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	2647.50	-27.60	15.80	0.90	16.70	33.00	-16.30

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

LTE Band 41, Channel Bandwidth: 20MHz

Mode		TX channel 40140					
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	2545.00	-33.70	8.80	0.80	9.60	33.00	-23.40
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	2545.00	-26.90	15.90	0.80	16.70	33.00	-16.30

Mode		TX channel 40470					
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	2578.00	-34.50	8.10	0.80	8.90	33.00	-24.10
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	2578.00	-27.10	16.00	0.80	16.80	33.00	-16.20

Mode		TX channel 40810					
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	2612.00	-34.00	8.60	0.90	9.50	33.00	-23.50
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	2612.00	-27.00	16.20	0.90	17.10	33.00	-15.90

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	-33.80	8.80	0.90	9.70	33.00	-23.30
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	2645.00	-27.90	15.50	0.90	16.40	33.00	-16.60

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

Modulation Type: 64QAM

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	-21.60	16.80	1.00	17.80	30.00	-12.20
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	1710.70	-24.80	14.40	1.00	15.40	30.00	-14.60

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	-21.90	16.80	1.00	17.80	30.00	-12.20
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	1732.50	-24.50	14.70	1.00	15.70	30.00	-14.30

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	-22.40	16.40	1.10	17.50	30.00	-12.50
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	-24.70	14.40	1.10	15.50	30.00	-14.50

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

LTE Band 4, 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	-21.50	17.00	1.00	18.00	30.00	-12.00
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	1711.50	-24.80	14.40	1.00	15.40	30.00	-14.60

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	-21.70	17.00	1.00	18.00	30.00	-12.00
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	1732.50	-24.50	14.70	1.00	15.70	30.00	-14.30

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	-22.20	16.60	1.10	17.70	30.00	-12.30
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	-24.40	14.70	1.10	15.80	30.00	-14.20

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

LTE Band 4, 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	-21.90	16.60	1.00	17.60	30.00	-12.40
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	1712.50	-24.50	14.70	1.00	15.70	30.00	-14.30

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	-21.90	16.80	1.00	17.80	30.00	-12.20
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	1732.50	-24.90	14.30	1.00	15.30	30.00	-14.70

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	-21.90	16.80	1.10	17.90	30.00	-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	1752.50	-24.60	14.50	1.10	15.60	30.00	-14.40

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

LTE Band 4, 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	-21.70	16.80	1.00	17.80	30.00	-12.20
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	1715.00	-24.40	14.80	1.00	15.80	30.00	-14.20

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	-21.70	17.00	1.00	18.00	30.00	-12.00
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	1732.50	-24.70	14.50	1.00	15.50	30.00	-14.50

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	-22.10	16.60	1.10	17.70	30.00	-12.30
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	1750.00	-24.90	14.20	1.10	15.30	30.00	-14.70

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

LTE Band 4, 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	-21.50	17.00	1.00	18.00	30.00	-12.00
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	1717.50	-24.70	14.50	1.00	15.50	30.00	-14.50

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	-21.90	16.80	1.00	17.80	30.00	-12.20
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	1732.50	-24.50	14.70	1.00	15.70	30.00	-14.30

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	-22.30	16.40	1.10	17.50	30.00	-12.50
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	1747.50	-24.80	14.30	1.10	15.40	30.00	-14.60

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

LTE Band 4, 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	-21.90	16.60	1.00	17.60	30.00	-12.40
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	1720.00	-24.40	14.80	1.00	15.80	30.00	-14.20

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	-21.80	16.90	1.00	17.90	30.00	-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	1732.50	-24.90	14.30	1.00	15.30	30.00	-14.70

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	-22.10	16.70	1.00	17.70	30.00	-12.30
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	1745.00	-24.50	14.70	1.00	15.70	30.00	-14.30

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	-33.90	8.60	0.70	9.30	33.00	-23.70
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	2502.50	-26.80	15.80	0.70	16.50	33.00	-16.50

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	-34.10	8.50	0.70	9.20	33.00	-23.80
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	2535.00	-26.90	16.00	0.70	16.70	33.00	-16.30

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	-34.60	8.00	0.80	8.80	33.00	-24.20
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	2567.50	-27.50	15.50	0.80	16.30	33.00	-16.70

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

LTE Band 7, 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	-33.90	8.60	0.70	9.30	33.00	-23.70
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	2505.00	-26.80	15.80	0.70	16.50	33.00	-16.50

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	-33.90	8.70	0.70	9.40	33.00	-23.60
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	2535.00	-27.60	15.30	0.70	16.00	33.00	-17.00

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	-34.70	7.90	0.80	8.70	33.00	-24.30
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	2565.00	-27.50	15.50	0.80	16.30	33.00	-16.70

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

LTE Band 7, 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	-34.20	8.30	0.70	9.00	33.00	-24.00
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	2507.50	-27.70	14.90	0.70	15.60	33.00	-17.40

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	-34.70	7.90	0.70	8.60	33.00	-24.40
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	-27.50	15.40	0.70	16.10	33.00	-16.90

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	-34.60	8.00	0.80	8.80	33.00	-24.20
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	2562.50	-27.60	15.40	0.80	16.20	33.00	-16.80

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

LTE Band 7, 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	-34.80	7.70	0.70	8.40	33.00	-24.60
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	2510.00	-27.50	15.20	0.70	15.90	33.00	-17.10

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	-33.90	8.70	0.70	9.40	33.00	-23.60
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	2535.00	-27.60	15.30	0.70	16.00	33.00	-17.00

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	-34.80	7.70	0.80	8.50	33.00	-24.50
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	2560.00	-27.60	15.40	0.80	16.20	33.00	-16.80

Note: EIRP (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	-34.80	7.80	0.80	8.60	33.00	-24.40
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	2572.50	-27.60	15.50	0.80	16.30	33.00	-16.70

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	-34.50	8.00	0.90	8.90	33.00	-24.10
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	2595.00	-27.60	15.50	0.90	16.40	33.00	-16.60

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	-34.80	7.80	0.90	8.70	33.00	-24.30
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	2617.50	-27.60	15.60	0.90	16.50	33.00	-16.50

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

LTE Band 38, 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	-34.30	8.30	0.80	9.10	33.00	-23.90
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	2575.00	-27.60	15.50	0.80	16.30	33.00	-16.70

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	-34.20	8.30	0.90	9.20	33.00	-23.80
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	-27.60	15.50	0.90	16.40	33.00	-16.60

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	-34.10	8.50	0.90	9.40	33.00	-23.60
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	2615.00	-27.60	15.60	0.90	16.50	33.00	-16.50

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

LTE Band 38, 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	-34.60	8.00	0.80	8.80	33.00	-24.20
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	-27.50	15.60	0.80	16.40	33.00	-16.60

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	-34.60	7.90	0.90	8.80	33.00	-24.20
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	-27.80	15.30	0.90	16.20	33.00	-16.80

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	-34.60	8.00	0.90	8.90	33.00	-24.10
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	2612.50	-27.90	15.30	0.90	16.20	33.00	-16.80

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

LTE Band 38, 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	-34.70	7.90	0.80	8.70	33.00	-24.30
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	2580.00	-27.60	15.50	0.80	16.30	33.00	-16.70

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	-34.60	7.90	0.90	8.80	33.00	-24.20
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	-27.40	15.70	0.90	16.60	33.00	-16.40

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	-34.20	8.40	0.90	9.30	33.00	-23.70
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	2610.00	-27.50	15.70	0.90	16.60	33.00	-16.40

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

LTE Band 41, Channel Bandwidth: 5MHz

Mode		TX channel 40065					
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	2537.50	-34.20	8.30	0.80	9.10	33.00	-23.90
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	2537.50	-27.40	15.40	0.80	16.20	33.00	-16.80

Mode		TX channel 40445					
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	2575.50	-34.50	8.10	0.80	8.90	33.00	-24.10
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	2575.50	-27.70	15.40	0.80	16.20	33.00	-16.80

Mode		TX channel 40825					
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	2613.50	-34.50	8.10	0.90	9.00	33.00	-24.00
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	2613.50	-27.40	15.80	0.90	16.70	33.00	-16.30

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	-33.90	8.70	0.90	9.60	33.00	-23.40
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	2652.50	-28.10	15.30	0.90	16.20	33.00	-16.80

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

LTE Band 41, Channel Bandwidth: 10MHz

Mode		TX channel 40090					
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	2540.00	-34.10	8.40	0.80	9.20	33.00	-23.80
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	2540.00	-27.30	15.50	0.80	16.30	33.00	-16.70

Mode		TX channel 40450					
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	2576.00	-34.70	7.90	0.80	8.70	33.00	-24.30
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	2576.00	-27.80	15.30	0.80	16.10	33.00	-16.90

Mode		TX channel 40820					
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	2613.00	-34.70	7.90	0.90	8.80	33.00	-24.20
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	2613.00	-27.50	15.70	0.90	16.60	33.00	-16.40

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	-33.90	8.70	0.90	9.60	33.00	-23.40
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	2650.00	-28.20	15.20	0.90	16.10	33.00	-16.90

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

LTE Band 41, Channel Bandwidth: 15MHz

Mode		TX channel 40115					
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	2542.50	-34.20	8.30	0.80	9.10	33.00	-23.90
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	2542.50	-27.90	14.90	0.80	15.70	33.00	-17.30

Mode		TX channel 40465					
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	-34.60	8.00	0.80	8.80	33.00	-24.20
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	-27.70	15.40	0.80	16.20	33.00	-16.80

Mode		TX channel 40815					
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	-34.40	8.20	0.90	9.10	33.00	-23.90
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	2612.50	-27.60	15.60	0.90	16.50	33.00	-16.50

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	-34.60	8.00	0.90	8.90	33.00	-24.10
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	2647.50	-28.20	15.20	0.90	16.10	33.00	-16.90

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

LTE Band 41, Channel Bandwidth: 20MHz

Mode		TX channel 40140					
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	2545.00	-34.10	8.40	0.80	9.20	33.00	-23.80
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	2545.00	-27.50	15.30	0.80	16.10	33.00	-16.90

Mode		TX channel 40470					
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	2578.00	-34.90	7.70	0.80	8.50	33.00	-24.50
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	2578.00	-27.60	15.50	0.80	16.30	33.00	-16.70

Mode		TX channel 40810					
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	2612.00	-34.50	8.10	0.90	9.00	33.00	-24.00
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	2612.00	-27.50	15.70	0.90	16.60	33.00	-16.40

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	-34.50	8.10	0.90	9.00	33.00	-24.00
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	2645.00	-28.60	14.80	0.90	15.70	33.00	-17.30

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

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

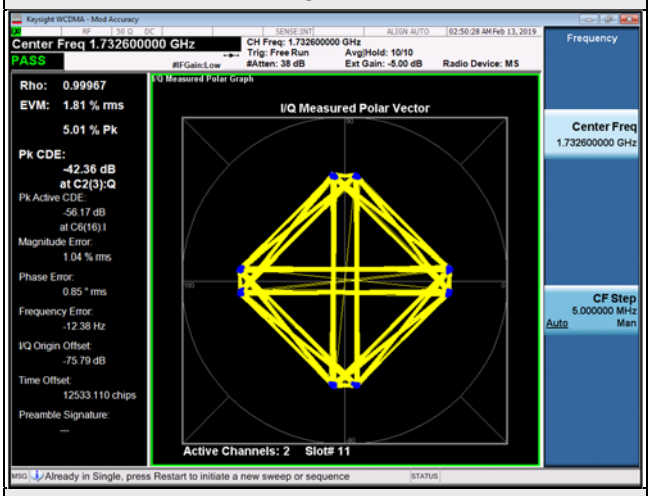
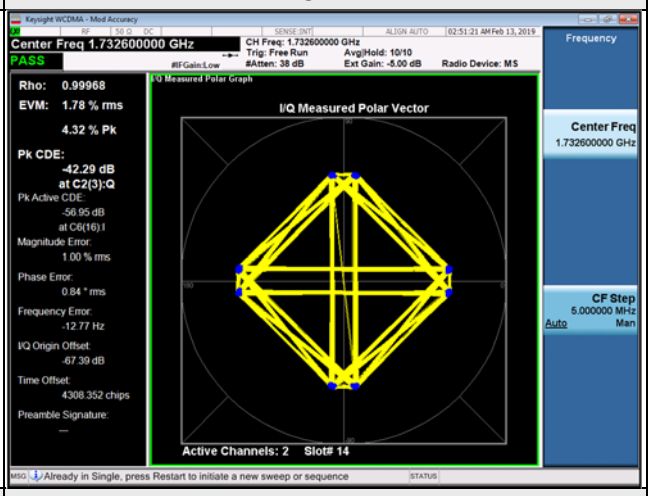
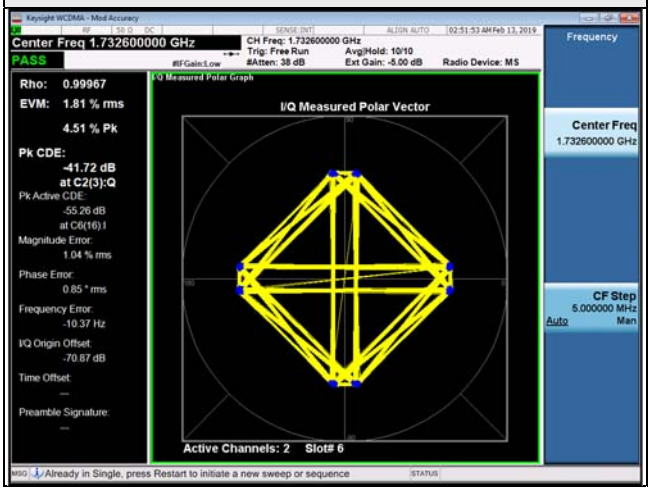
N/A

4.2.2 Test Procedure

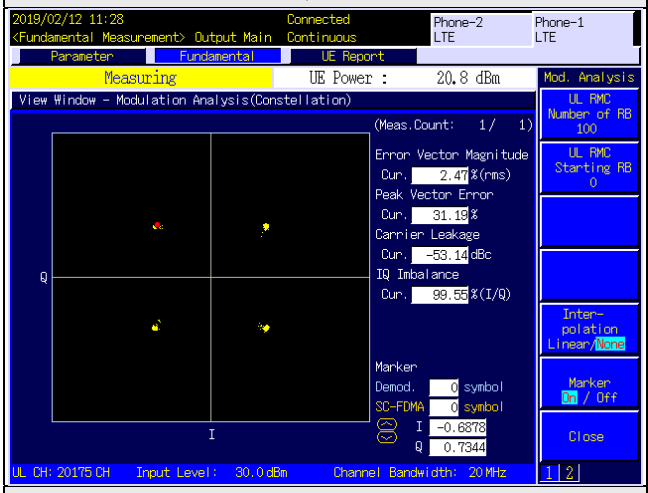
Connect the EUT to Communication Simulator via the antenna connector, The frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

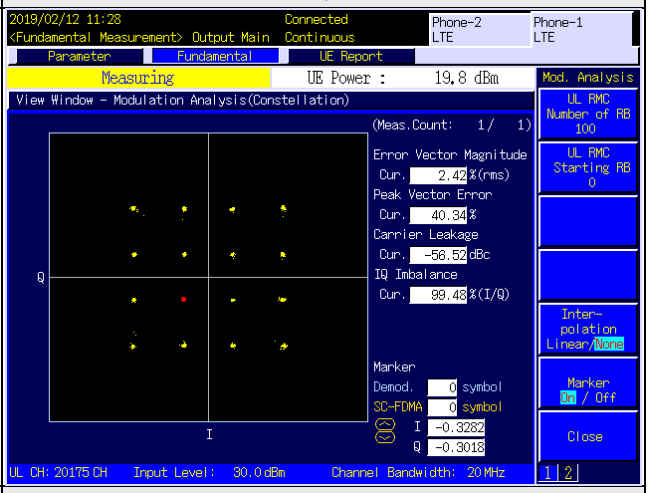
4.2.3 Test Setup

4.2.4 Test Results

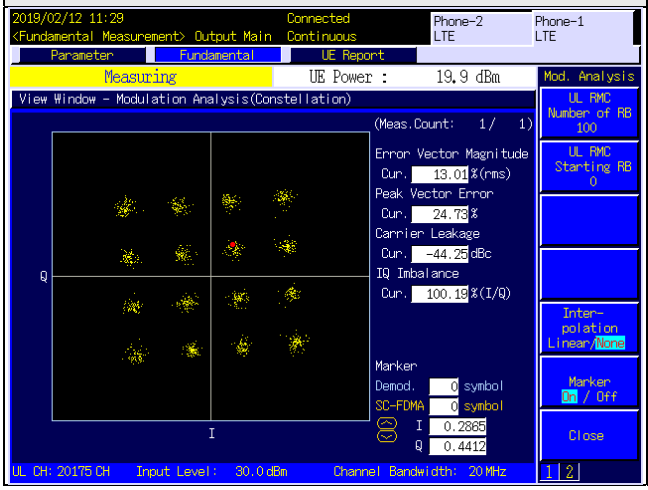
WCDMA Band 4	
Spectrum Plot of Measurement Value	
Channel: 1413 / Frequency (MHz): 1732.6MHz	
WCDMA	HSDPA
	
HSUPA	
	

LTE Band 4	
Spectrum Plot of Measurement Value	
Channel: 20175 / Frequency (MHz): 1732.5MHz	
QPSK	16QAM

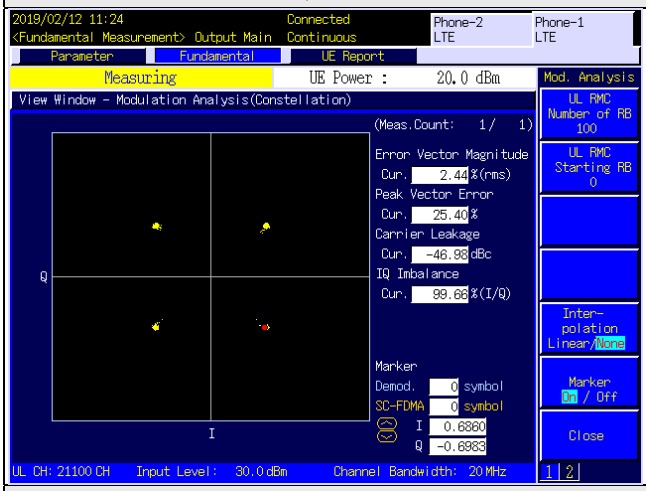


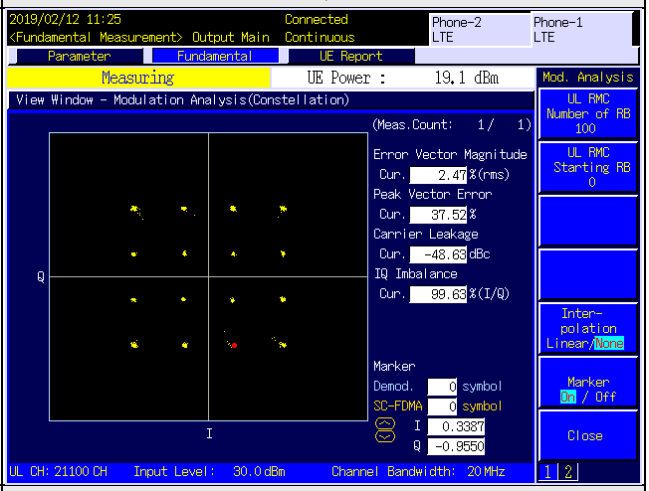


64QAM

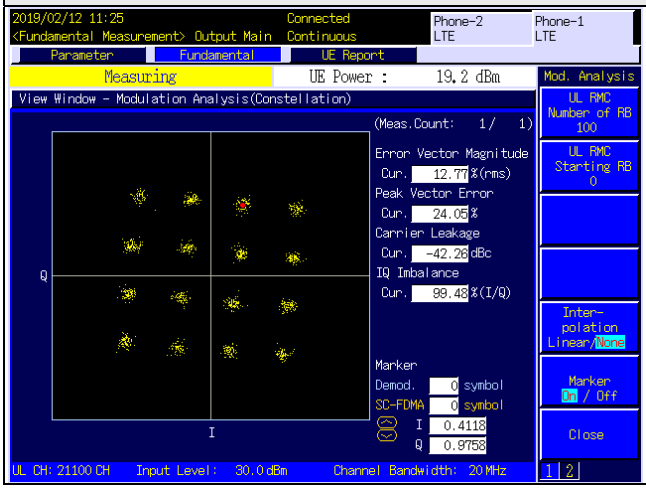


LTE Band 7	
Spectrum Plot of Measurement Value	
Channel: 21100 / Frequency (MHz): 2535 MHz	
QPSK	16QAM

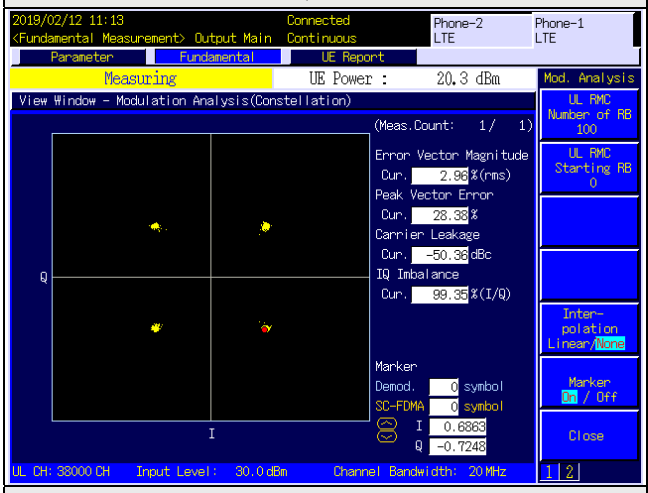


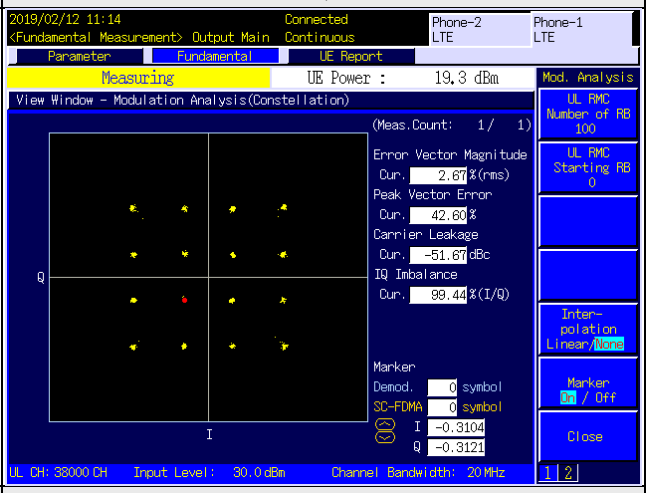


64QAM

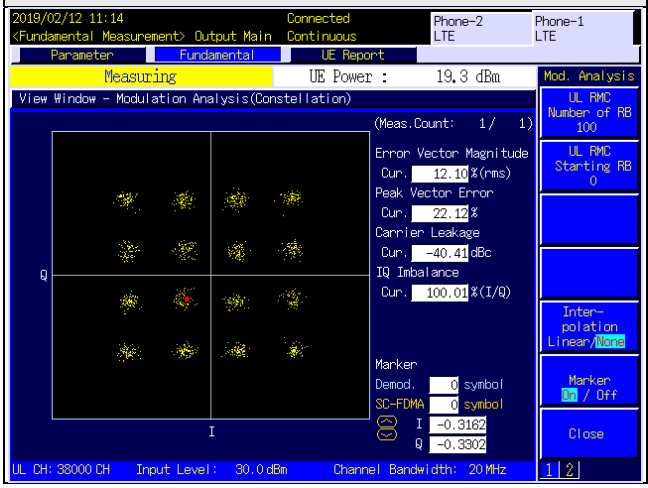


LTE Band 38	
Spectrum Plot of Measurement Value	
Channel: 38000 / Frequency (MHz): 2595.0 MHz	
QPSK	16QAM

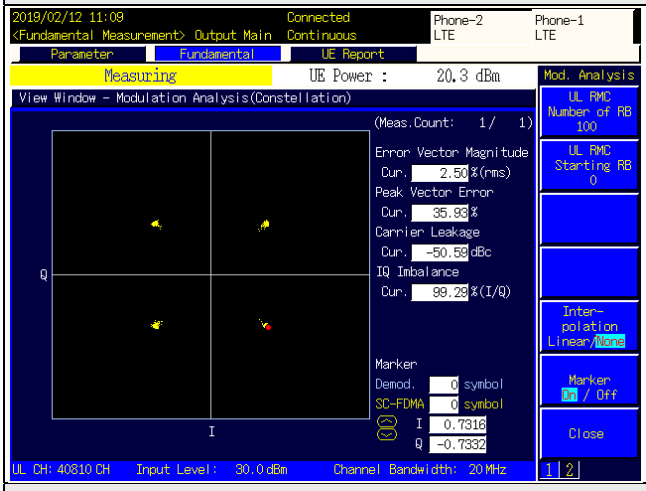


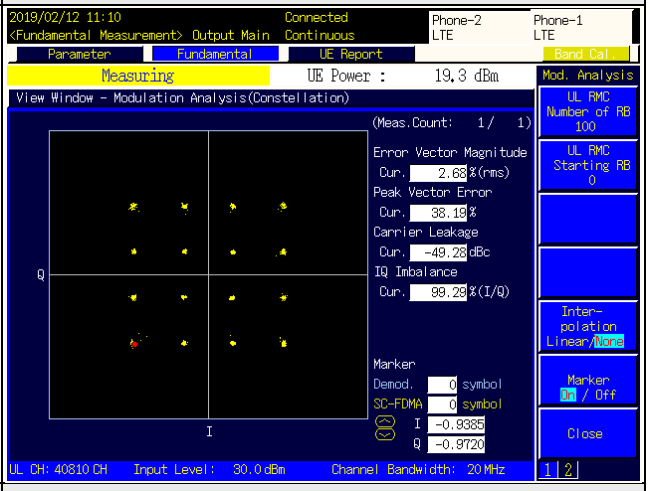


64QAM

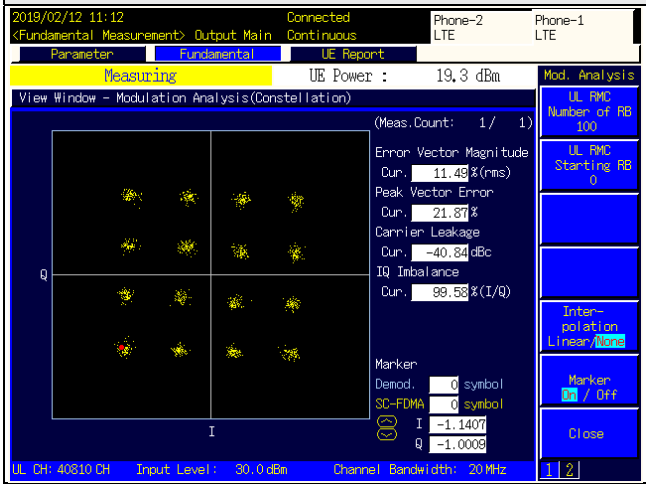


LTE Band 41	
Spectrum Plot of Measurement Value	
Channel: 40810 / Frequency (MHz): 2612.0 MHz	
QPSK	16QAM





64QAM



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℃ ~ 50℃.

4.3.2 Test Procedure

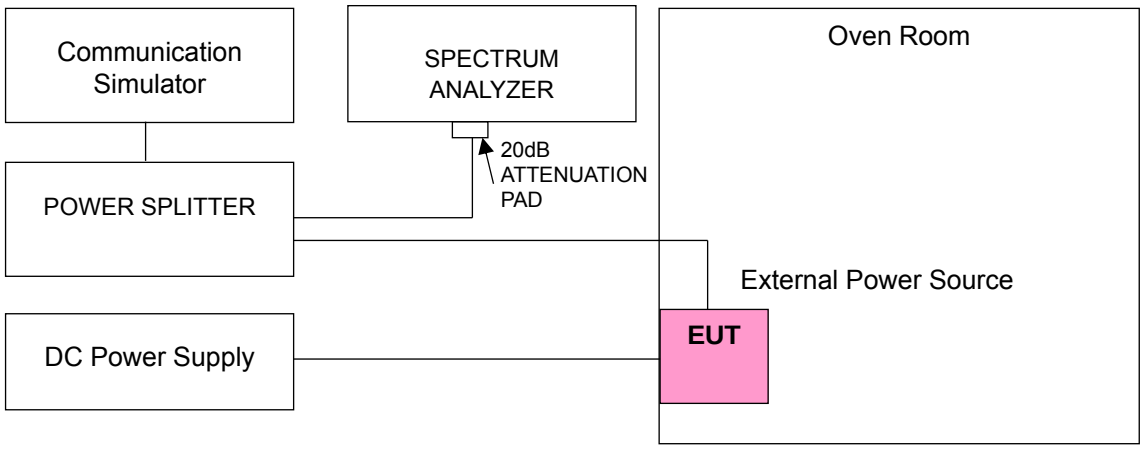
a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

b. 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.

c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5 ℃ 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)
4.4275	1712.400003	0.002	1752.600003	0.002
3.85	1712.400004	0.002	1752.600002	0.001
3.2725	1712.400002	0.001	1752.600002	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	WCDMA Band 4			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.400002	0.001	1752.600003	0.001
-20	1712.400003	0.002	1752.600003	0.002
-10	1712.400002	0.001	1752.600001	0.001
0	1712.400001	0.001	1752.600003	0.002
10	1712.400004	0.002	1752.600002	0.001
20	1712.399997	-0.002	1752.599999	-0.001
30	1712.399998	-0.001	1752.599996	-0.002
40	1712.399998	-0.001	1752.599997	-0.002
50	1712.399996	-0.002	1752.599997	-0.002
55	1712.399996	-0.002	1752.599997	-0.002

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)
4.4275	1710.700001	0.001	1754.300004	0.002
3.85	1710.700004	0.002	1754.300004	0.002
3.2725	1710.700002	0.001	1754.300001	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 4			
	Channel Bandwidth: 1.4 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1710.700002	0.001	1754.300003	0.002
-20	1710.700004	0.002	1754.300002	0.001
-10	1710.700004	0.002	1754.300001	0.001
0	1710.700001	0.001	1754.300004	0.002
10	1710.700002	0.001	1754.300002	0.001
20	1710.699999	-0.001	1754.299996	-0.002
30	1710.699996	-0.002	1754.299996	-0.002
40	1710.699999	-0.001	1754.299997	-0.002
50	1710.699997	-0.002	1754.299996	-0.002
55	1710.699998	-0.001	1754.299997	-0.002

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)
4.4275	1711.500004	0.002	1753.500004	0.002
3.85	1711.500002	0.001	1753.500003	0.002
3.2725	1711.500003	0.002	1753.500002	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 4			
	Channel Bandwidth: 3 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1711.500003	0.002	1753.500002	0.001
-20	1711.500003	0.001	1753.500001	0.001
-10	1711.500002	0.001	1753.500003	0.002
0	1711.500003	0.002	1753.500001	0.001
10	1711.500002	0.001	1753.500002	0.001
20	1711.499998	-0.001	1753.499997	-0.002
30	1711.499998	-0.001	1753.499996	-0.002
40	1711.499998	-0.001	1753.499998	-0.001
50	1711.499999	-0.001	1753.499999	-0.001
55	1711.499998	-0.001	1753.499997	-0.002

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)
4.4275	1712.500004	0.002	1752.500001	0.001
3.85	1712.500003	0.002	1752.500002	0.001
3.2725	1712.500003	0.002	1752.500001	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 4			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.500002	0.001	1752.500002	0.001
-20	1712.500001	0.001	1752.500002	0.001
-10	1712.500001	0.001	1752.500002	0.001
0	1712.500004	0.002	1752.500003	0.002
10	1712.500003	0.002	1752.500002	0.001
20	1712.499998	-0.001	1752.499998	-0.001
30	1712.499999	-0.001	1752.499999	-0.001
40	1712.499999	-0.001	1752.499997	-0.002
50	1712.499998	-0.001	1752.499998	-0.001
55	1712.499997	-0.002	1752.499997	-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)
4.4275	1715.000002	0.001	1750.000004	0.002
3.85	1715.000004	0.002	1750.000003	0.002
3.2725	1715.000002	0.001	1750.000004	0.002

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 4			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1715.000004	0.002	1750.000002	0.001
-20	1715.000002	0.001	1750.000001	0.001
-10	1715.000003	0.002	1750.000004	0.002
0	1715.000002	0.001	1750.000001	0.001
10	1715.000003	0.002	1750.000003	0.002
20	1714.999998	-0.001	1749.999998	-0.001
30	1714.999996	-0.002	1749.999996	-0.002
40	1714.999997	-0.002	1749.999998	-0.001
50	1714.999999	-0.001	1749.999996	-0.002
55	1714.999997	-0.002	1749.999997	-0.002

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)
4.4275	1717.500001	0.001	1747.500004	0.002
3.85	1717.500004	0.002	1747.500001	0.001
3.2725	1717.500003	0.002	1747.500002	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 4			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1717.500002	0.001	1747.500003	0.002
-20	1717.500001	0.001	1747.500001	0.001
-10	1717.500001	0.001	1747.500003	0.002
0	1717.500002	0.001	1747.500002	0.001
10	1717.500004	0.002	1747.500002	0.001
20	1717.499998	-0.001	1747.499997	-0.002
30	1717.499996	-0.002	1747.499997	-0.002
40	1717.499997	-0.002	1747.499997	-0.002
50	1717.499997	-0.002	1747.499997	-0.002
55	1717.499998	-0.001	1747.499996	-0.002

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)
4.4275	1720.000004	0.002	1745.000002	0.001
3.85	1720.000002	0.001	1745.000001	0.001
3.2725	1720.000004	0.002	1745.000001	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 4			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1720.000003	0.002	1745.000001	0.001
-20	1720.000004	0.002	1745.000004	0.002
-10	1720.000003	0.002	1745.000002	0.001
0	1720.000003	0.002	1745.000003	0.002
10	1720.000003	0.002	1745.000004	0.002
20	1719.999997	-0.002	1744.999997	-0.002
30	1719.999999	-0.001	1744.999997	-0.002
40	1719.999996	-0.002	1744.999996	-0.002
50	1719.999997	-0.002	1744.999998	-0.001
55	1719.999998	-0.001	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)
4.4275	2502.500004	0.002	2567.500001	0.000
3.85	2502.500003	0.001	2567.500003	0.001
3.2725	2502.500002	0.001	2567.500002	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	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	2567.500004	0.002
-20	2502.500002	0.001	2567.500003	0.001
-10	2502.500002	0.001	2567.500004	0.001
0	2502.500001	0.001	2567.500004	0.002
10	2502.500002	0.001	2567.500001	0.001
20	2502.499996	-0.001	2567.499999	0.000
30	2502.499999	-0.001	2567.499997	-0.001
40	2502.499997	-0.001	2567.499997	-0.001
50	2502.499998	-0.001	2567.499996	-0.002
55	2502.499997	-0.001	2567.499998	-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)
4.4275	2505.000002	0.001	2565.000004	0.001
3.85	2505.000003	0.001	2565.000004	0.001
3.2725	2505.000001	0.000	2565.000001	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	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	2505.000003	0.001	2565.000004	0.001
-10	2505.000002	0.001	2565.000003	0.001
0	2505.000002	0.001	2565.000002	0.001
10	2505.000002	0.001	2565.000003	0.001
20	2504.999997	-0.001	2564.999997	-0.001
30	2504.999997	-0.001	2564.999996	-0.001
40	2504.999997	-0.001	2564.999998	-0.001
50	2504.999997	-0.001	2564.999999	-0.001
55	2504.999998	-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)
4.4275	2507.500004	0.002	2562.500004	0.001
3.85	2507.500002	0.001	2562.500002	0.001
3.2725	2507.500002	0.001	2562.500002	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 7			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2507.500002	0.001	2562.500004	0.001
-20	2507.500003	0.001	2562.500002	0.001
-10	2507.500002	0.001	2562.500003	0.001
0	2507.500001	0.000	2562.500003	0.001
10	2507.500003	0.001	2562.500004	0.001
20	2507.499999	-0.001	2562.499996	-0.001
30	2507.499998	-0.001	2562.499997	-0.001
40	2507.499996	-0.001	2562.499997	-0.001
50	2507.499997	-0.001	2562.499997	-0.001
55	2507.499996	-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)
4.4275	2510.000002	0.001	2560.000003	0.001
3.85	2510.000003	0.001	2560.000004	0.001
3.2725	2510.000003	0.001	2560.000003	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 7			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2510.000001	0.000	2560.000003	0.001
-20	2510.000001	0.000	2560.000002	0.001
-10	2510.000003	0.001	2560.000004	0.002
0	2510.000002	0.001	2560.000002	0.001
10	2510.000003	0.001	2560.000003	0.001
20	2509.999996	-0.001	2559.999998	-0.001
30	2509.999999	0.000	2559.999997	-0.001
40	2509.999998	-0.001	2559.999998	-0.001
50	2509.999997	-0.001	2559.999998	-0.001
55	2509.999997	-0.001	2559.999998	-0.001

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)
4.4275	2572.500002	0.001	2617.500001	0.000
3.85	2572.500001	0.001	2617.500002	0.001
3.2725	2572.500003	0.001	2617.500004	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 38			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2572.500002	0.001	2617.500004	0.001
-20	2572.500003	0.001	2617.500001	0.001
-10	2572.500002	0.001	2617.500002	0.001
0	2572.500003	0.001	2617.500002	0.001
10	2572.500002	0.001	2617.500004	0.002
20	2572.499998	-0.001	2617.499998	-0.001
30	2572.499997	-0.001	2617.499997	-0.001
40	2572.499999	-0.001	2617.499998	-0.001
50	2572.499998	-0.001	2617.499999	0.000
55	2572.499997	-0.001	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)
4.4275	2575.000003	0.001	2615.000002	0.001
3.85	2575.000001	0.001	2615.000001	0.000
3.2725	2575.000002	0.001	2615.000004	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 38			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2575.000003	0.001	2615.000002	0.001
-20	2575.000001	0.000	2615.000002	0.001
-10	2575.000003	0.001	2615.000003	0.001
0	2575.000003	0.001	2615.000003	0.001
10	2575.000003	0.001	2615.000002	0.001
20	2574.999996	-0.001	2614.999997	-0.001
30	2574.999998	-0.001	2614.999997	-0.001
40	2574.999998	-0.001	2614.999997	-0.001
50	2574.999998	-0.001	2614.999998	-0.001
55	2574.999997	-0.001	2614.999998	-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)
4.4275	2577.500003	0.001	2612.500002	0.001
3.85	2577.500003	0.001	2612.500004	0.001
3.2725	2577.500002	0.001	2612.500002	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 38			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2577.500002	0.001	2612.500002	0.001
-20	2577.500002	0.001	2612.500003	0.001
-10	2577.500001	0.000	2612.500001	0.000
0	2577.500003	0.001	2612.500004	0.001
10	2577.500002	0.001	2612.500002	0.001
20	2577.499999	-0.001	2612.499996	-0.001
30	2577.499997	-0.001	2612.499997	-0.001
40	2577.499998	-0.001	2612.499999	0.000
50	2577.499998	-0.001	2612.499997	-0.001
55	2577.499997	-0.001	2612.499997	-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)
4.4275	2580.000003	0.001	2610.000004	0.001
3.85	2580.000002	0.001	2610.000002	0.001
3.2725	2580.000002	0.001	2610.000000	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 38			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2580.000001	0.000	2610.000003	0.001
-20	2580.000003	0.001	2610.000004	0.001
-10	2580.000004	0.001	2610.000001	0.000
0	2580.000001	0.000	2610.000003	0.001
10	2580.000004	0.001	2610.000003	0.001
20	2579.999999	-0.001	2609.999998	-0.001
30	2579.999998	-0.001	2609.999999	0.000
40	2579.999997	-0.001	2609.999998	-0.001
50	2579.999996	-0.001	2609.999999	0.000
55	2579.999996	-0.001	2609.999997	-0.001

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)
4.4275	2537.500003	0.001	2652.500002	0.001
3.85	2537.500003	0.001	2652.500001	0.000
3.2725	2537.500001	0.000	2652.500004	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 41			
	Channel Bandwidth: 5 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2537.500002	0.001	2652.500004	0.001
-20	2537.500002	0.001	2652.500003	0.001
-10	2537.500002	0.001	2652.500003	0.001
0	2537.500002	0.001	2652.500002	0.001
10	2537.500002	0.001	2652.500001	0.000
20	2537.499998	-0.001	2652.499997	-0.001
30	2537.499996	-0.002	2652.499998	-0.001
40	2537.499998	-0.001	2652.499998	-0.001
50	2537.499998	-0.001	2652.499998	-0.001
55	2537.499997	-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)
4.4275	2540.000004	0.001	2650.000004	0.001
3.85	2540.000002	0.001	2650.000002	0.001
3.2725	2540.000002	0.001	2650.000003	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 41			
	Channel Bandwidth: 10 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2540.000002	0.001	2650.000004	0.001
-20	2540.000001	0.001	2650.000002	0.001
-10	2540.000001	0.001	2650.000002	0.001
0	2540.000004	0.002	2650.000001	0.001
10	2540.000002	0.001	2650.000001	0.001
20	2539.999997	-0.001	2649.999996	-0.002
30	2539.999998	-0.001	2649.999999	0.000
40	2539.999999	-0.001	2649.999997	-0.001
50	2539.999999	-0.001	2649.999997	-0.001
55	2539.999999	0.000	2649.999996	-0.001

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)
4.4275	2542.500002	0.001	2647.500003	0.001
3.85	2542.500002	0.001	2647.500002	0.001
3.2725	2542.500003	0.001	2647.500003	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 41			
	Channel Bandwidth: 15 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2542.500001	0.000	2647.500002	0.001
-20	2542.500001	0.000	2647.500002	0.001
-10	2542.500004	0.002	2647.500004	0.001
0	2542.500002	0.001	2647.500001	0.000
10	2542.500004	0.001	2647.500002	0.001
20	2542.499998	-0.001	2647.499997	-0.001
30	2542.499997	-0.001	2647.499996	-0.002
40	2542.499999	-0.001	2647.499997	-0.001
50	2542.499998	-0.001	2647.499998	-0.001
55	2542.499996	-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)
4.4275	2545.000002	0.001	2645.000003	0.001
3.85	2545.000001	0.000	2645.000002	0.001
3.2725	2545.000004	0.002	2645.000004	0.001

Note: The applicant defined the normal working voltage is from 3.2725Vdc to 4.4275Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 41			
	Channel Bandwidth: 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2545.000004	0.001	2645.000003	0.001
-20	2545.000003	0.001	2645.000004	0.001
-10	2545.000002	0.001	2645.000002	0.001
0	2545.000002	0.001	2645.000001	0.001
10	2545.000004	0.001	2645.000004	0.002
20	2544.999996	-0.001	2644.999997	-0.001
30	2544.999998	-0.001	2644.999998	-0.001
40	2544.999999	-0.001	2644.999997	-0.001
50	2544.999999	-0.001	2644.999998	-0.001
55	2544.999998	-0.001	2644.999997	-0.001

4.4 Emission Bandwidth Measurement

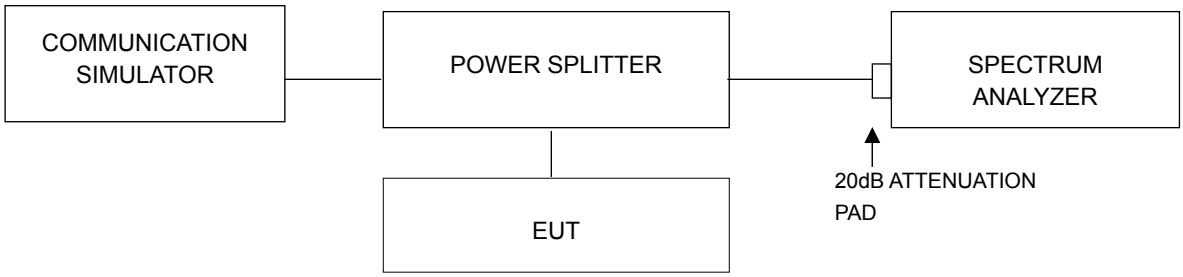
4.4.1 Limits of Emission Bandwidth Measurement

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 = 51kHz and VBW = 150kHz for WCDMA; with RBW = 30kHz and VBW = 100kHz (Channel Bandwidth: 1.4MHz), RBW = 62kHz and VBW = 200kHz (Channel Bandwidth: 3MHz), RBW = 100kHz and VBW = 300kHz (Channel Bandwidth: 5MHz), RBW = 200kHz and VBW = 1MHz (Channel Bandwidth: 10MHz), RBW = 300kHz and VBW = 1MHz (Channel Bandwidth: 15MHz) and RBW = 430kHz and VBW = 1.3MHz (Channel Bandwidth: 20MHz) for LTE Band 4, 7, 38; RBW = 51kHz and VBW = 150kHz (Channel Bandwidth: 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) for LTE Band 41. 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

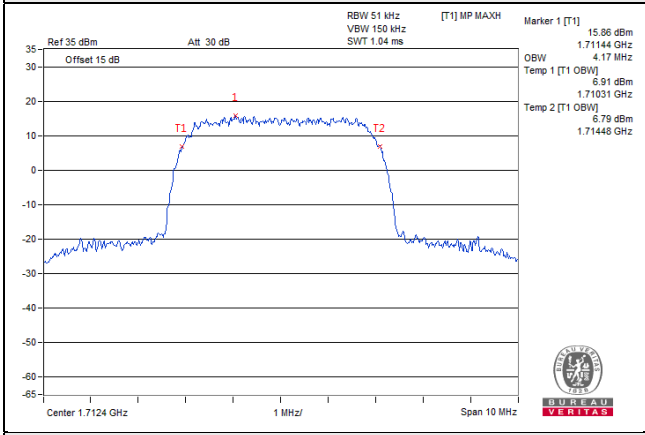
Occupied Bandwidth

WCDMA Band 4

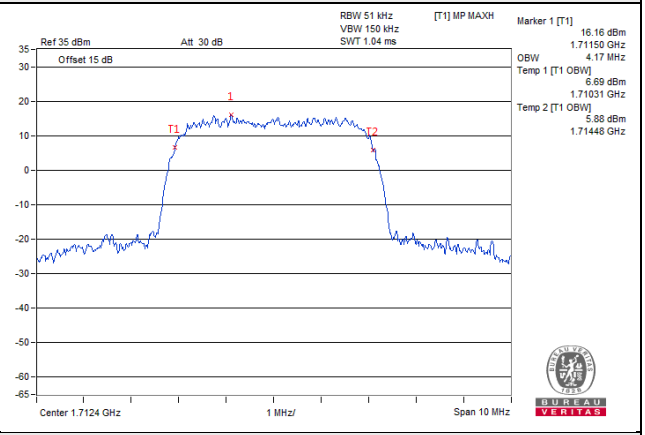
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		WCDMA	HSDPA	HSUPA
1312	1712.4	4.17	4.17	4.18
1413	1732.6	4.17	4.17	4.15
1513	1752.6	4.17	4.17	4.17

Spectrum Plot of Worst Value

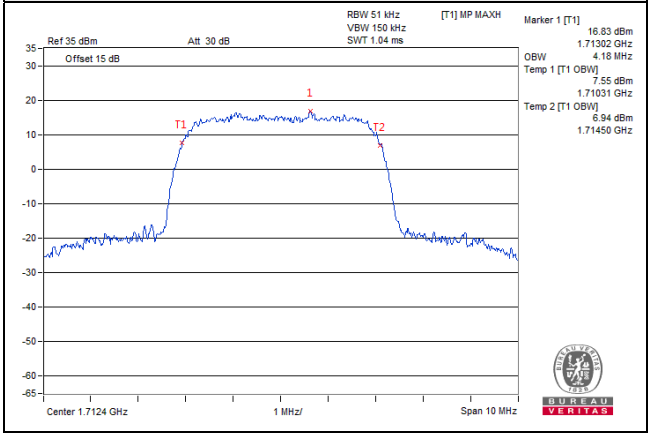
WCDMA



HSDPA



HSUPA



LTE Band 4

LTE Band 4, Channel Bandwidth 1.4MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
19957	1710.7	1.09	1.09	1.09
20175	1732.5	1.09	1.09	1.09
20393	1754.3	1.09	1.09	1.09
LTE Band 4, Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
19965	1711.5	2.70	2.69	2.70
20175	1732.5	2.70	2.70	2.70
20385	1753.5	2.70	2.69	2.70
LTE Band 4, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
19975	1712.5	4.49	4.49	4.49
20175	1732.5	4.49	4.49	4.49
20375	1752.5	4.49	4.49	4.49
LTE Band 4, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20000	1715.0	8.96	8.97	8.96
20175	1732.5	8.97	8.98	8.97
20350	1750.0	8.96	8.97	8.96
LTE Band 4, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20025	1717.5	13.46	13.46	13.45
20175	1732.5	13.47	13.46	13.46
20325	1747.5	13.43	13.43	13.42

LTE Band 4, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20050	1720.0	17.96	17.97	17.96
20175	1732.5	17.94	17.96	17.96
20300	1745.0	17.88	17.91	17.89

Spectrum Plot of Worst Value

1.4MHz / 16QAM

3MHz / 64QAM

5MHz / 16QAM

10MHz / 16QAM

15MHz / QPSK

20MHz / 16QAM

LTE Band 7

LTE Band 7, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20775	2502.5	4.50	4.49	4.49
21100	2535.0	4.49	4.49	4.49
21425	2567.5	4.50	4.49	4.49
LTE Band 7, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20800	2505.0	8.97	8.98	8.97
21100	2535.0	8.97	8.97	8.96
21400	2565.0	8.96	8.97	8.95
LTE Band 7, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20825	2507.5	13.47	13.46	13.45
21100	2535.0	13.46	13.44	13.45
21375	2562.5	13.43	13.42	13.41
LTE Band 7, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20850	2510.0	17.95	17.96	17.96
21100	2535.0	17.93	17.95	17.95
21350	2560.0	17.88	17.89	17.89

Spectrum Plot of Worst Value	
5MHz / QPSK	10MHz / 16QAM
15MHz / QPSK	20MHz / 64QAM

LTE Band 38

LTE Band 38, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
37775	2572.5	4.49	4.49	4.48
38000	2595.0	4.49	4.49	4.48
38225	2617.5	4.49	4.49	4.49
LTE Band 38, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
37800	2575.0	8.96	8.97	8.97
38000	2595.0	8.96	8.98	8.97
38200	2615.0	8.96	8.97	8.97
LTE Band 38, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
37825	2577.5	13.45	13.45	13.45
38000	2595.0	13.47	13.45	13.46
38175	2612.5	13.46	13.45	13.45
LTE Band 38, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
37850	2580.0	17.92	17.92	17.94
38000	2595.0	17.94	17.94	17.96
38150	2610.0	17.94	17.95	17.95

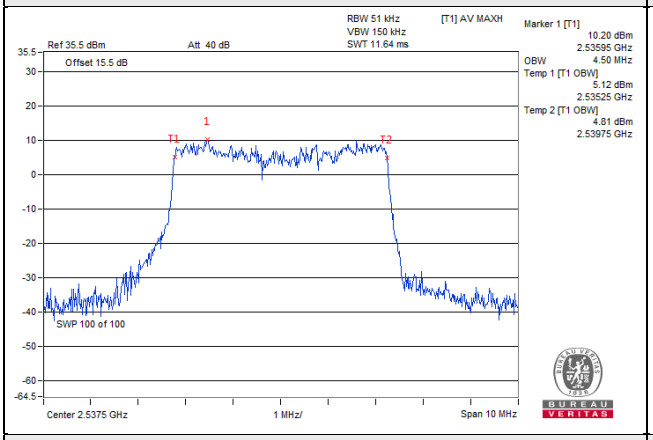
Spectrum Plot of Worst Value	
5MHz / 16QAM	10MHz / 16QAM
15MHz / QPSK	20MHz / 64QAM

LTE Band 41

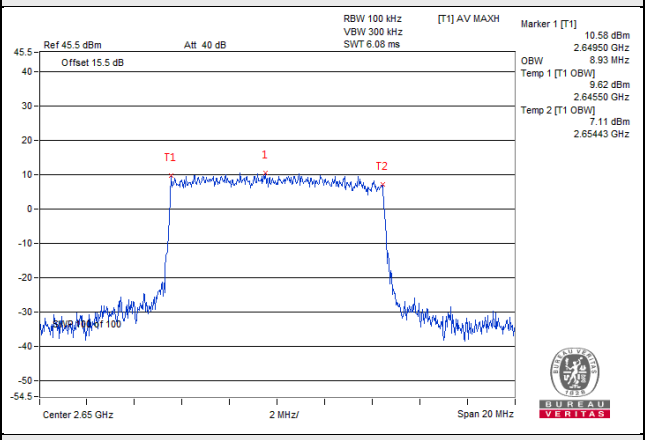
LTE Band 41, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
40065	2537.5	4.50	4.48	4.48
40445	2575.5	4.48	4.48	4.48
40825	2613.5	4.48	4.50	4.48
41215	2652.5	4.48	4.48	4.48
LTE Band 41, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
40090	2540.0	8.90	8.90	8.93
40450	2576.0	8.90	8.93	8.90
40820	2613.0	8.93	8.90	8.93
41190	2650.0	8.93	8.90	8.93
LTE Band 41, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
40115	2542.5	13.43	13.40	13.43
40465	2577.5	13.40	13.40	13.36
40815	2612.5	13.40	13.36	13.36
41165	2647.5	13.36	13.36	13.40
LTE Band 41, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM
40140	2545.0	17.93	18.00	17.86
40470	2578.0	17.93	17.86	17.86
40810	2612.0	17.93	17.86	17.93
41140	2645.0	17.86	17.93	17.93

Spectrum Plot of Worst Value

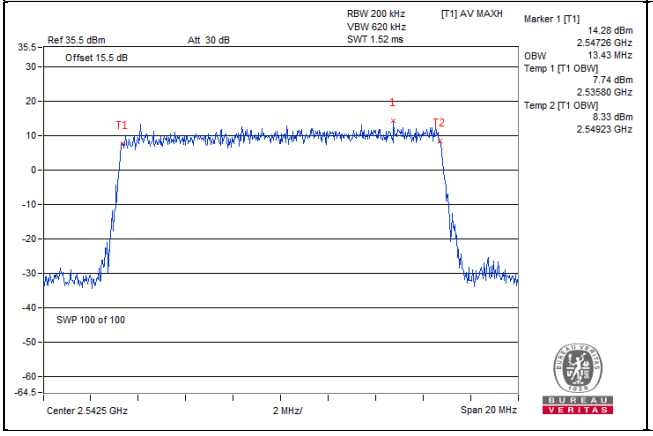
5MHz / QPSK



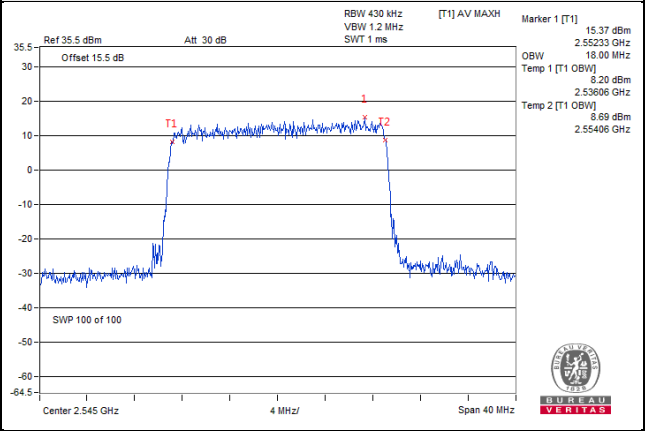
10MHz / QPSK



15MHz / QPSK



20MHz / 16QAM



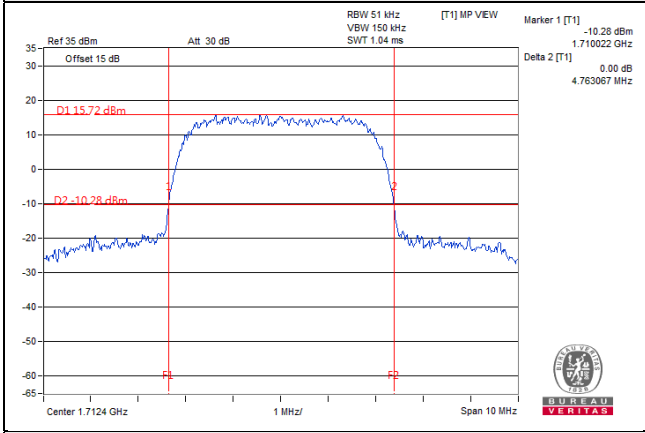
26dB Bandwidth

WCDMA Band 4

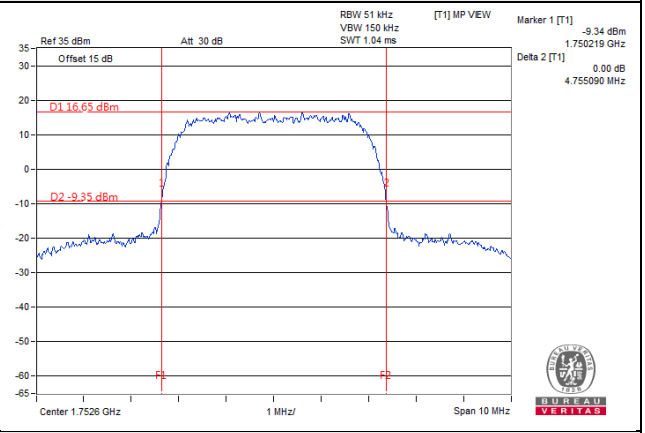
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		WCDMA	HSDPA	HSUPA
1312	1712.4	4.76	4.70	4.73
1413	1732.6	4.70	4.71	4.72
1513	1752.6	4.76	4.76	4.73

Spectrum Plot of Worst Value

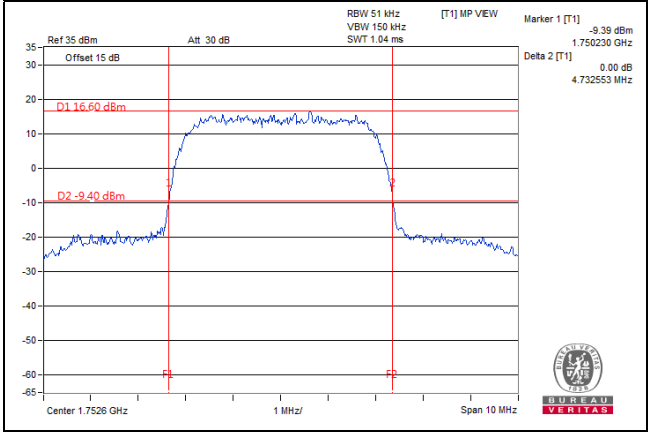
WCDMA



HSDPA



HSUPA



LTE Band 4

LTE Band 4, Channel Bandwidth 1.4MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
19957	1710.7	1.22	1.22	1.22
20175	1732.5	1.22	1.22	1.22
20393	1754.3	1.21	1.21	1.22
LTE Band 4, Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
19965	1711.5	2.91	2.93	2.93
20175	1732.5	2.92	2.93	2.91
20385	1753.5	2.91	2.93	2.93
LTE Band 4, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
19975	1712.5	4.79	4.79	4.80
20175	1732.5	4.82	4.81	4.80
20375	1752.5	4.81	4.80	4.80
LTE Band 4, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20000	1715.0	9.51	9.51	9.50
20175	1732.5	9.51	9.52	9.50
20350	1750.0	9.50	9.51	9.52
LTE Band 4, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20025	1717.5	14.25	14.23	14.26
20175	1732.5	14.26	14.25	14.24
20325	1747.5	14.23	14.23	14.22

LTE Band 4, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20050	1720.0	19.05	19.06	19.04
20175	1732.5	19.01	19.01	19.02
20300	1745.0	18.98	19.01	19.01

Spectrum Plot of Worst Value

1.4MHz / 64QAM

3MHz / 16QAM

5MHz / QPSK

10MHz / 16QAM

15MHz / QPSK

20MHz / 16QAM

LTE Band 7

LTE Band 7, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20775	2502.5	4.84	4.81	4.82
21100	2535.0	4.83	4.81	4.81
21425	2567.5	4.82	4.80	4.80
LTE Band 7, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20800	2505.0	9.51	9.52	9.52
21100	2535.0	9.52	9.51	9.52
21400	2565.0	9.51	9.51	9.50
LTE Band 7, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20825	2507.5	14.28	14.26	14.24
21100	2535.0	14.26	14.25	14.23
21375	2562.5	14.23	14.24	14.23
LTE Band 7, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
20850	2510.0	19.03	19.05	19.04
21100	2535.0	19.03	19.04	19.03
21350	2560.0	18.99	19.00	19.02

Spectrum Plot of Worst Value	
5MHz / QPSK	10MHz / 64QAM
15MHz / QPSK	20MHz / 16QAM

LTE Band 38

LTE Band 38, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
37775	2572.5	4.80	4.80	4.77
38000	2595.0	4.81	4.80	4.80
38225	2617.5	4.81	4.78	4.78
LTE Band 38, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
37800	2575.0	9.49	9.49	9.51
38000	2595.0	9.50	9.50	9.51
38200	2615.0	9.49	9.50	9.50
LTE Band 38, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
37825	2577.5	14.24	14.23	14.22
38000	2595.0	14.25	14.24	14.24
38175	2612.5	14.24	14.23	14.25
LTE Band 38, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
37850	2580.0	19.00	19.00	18.99
38000	2595.0	19.02	19.03	19.04
38150	2610.0	19.03	19.02	19.02

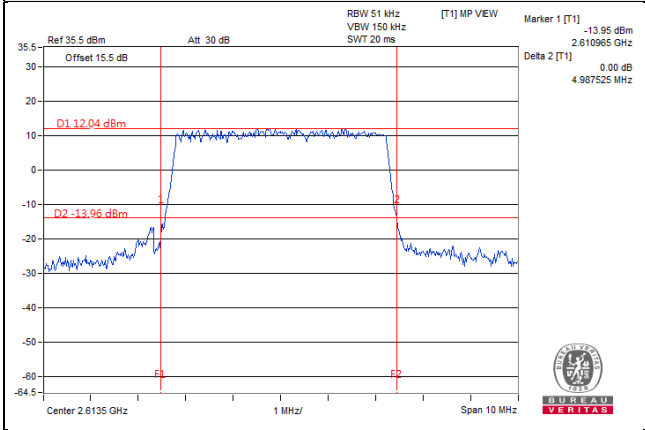
Spectrum Plot of Worst Value	
5MHz / QPSK	10MHz / 64QAM
15MHz / QPSK	20MHz / 64QAM

LTE Band 41

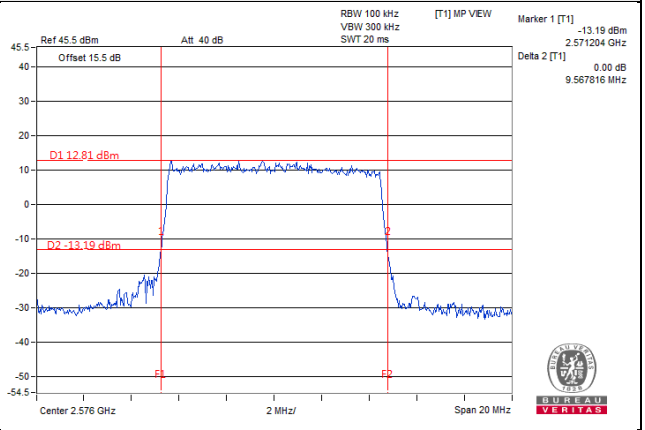
LTE Band 41, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
40065	2537.5	4.97	4.91	4.90
40445	2575.5	4.87	4.87	4.88
40825	2613.5	4.92	4.99	4.88
41215	2652.5	4.91	4.85	4.89
LTE Band 41, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
40090	2540.0	9.49	9.56	9.52
40450	2576.0	9.57	9.52	9.56
40820	2613.0	9.56	9.52	9.55
41190	2650.0	9.50	9.52	9.54
LTE Band 41, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
40115	2542.5	14.37	14.32	14.37
40465	2577.5	14.41	14.38	14.34
40815	2612.5	14.27	14.34	14.33
41165	2647.5	14.35	14.41	14.33
LTE Band 41, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM
40140	2545.0	19.45	19.44	19.45
40470	2578.0	19.33	19.42	19.44
40810	2612.0	19.36	19.44	19.40
41140	2645.0	19.35	19.46	19.48

Spectrum Plot of Worst Value

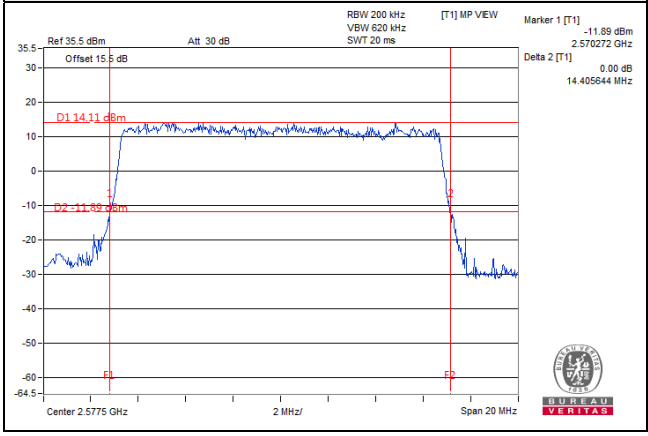
5MHz / 16QAM



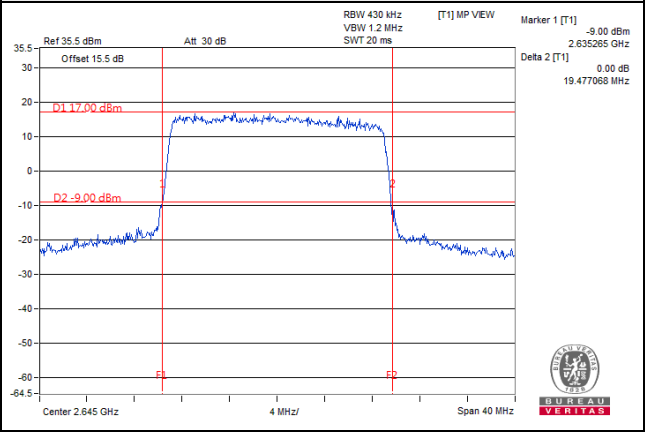
10MHz / QPSK



15MHz / QPSK



20MHz / 64QAM



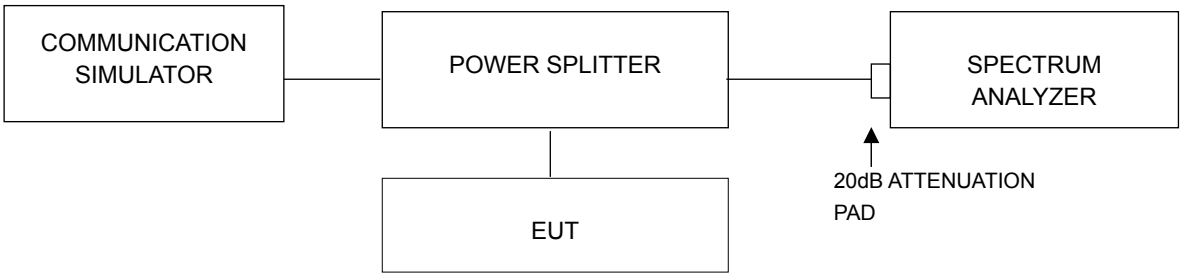
4.5 Channel Edge Measurement

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 (P) dB.

For LTE Band 7, 38, 41
According to FCC 27.53(m)(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 that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. 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.

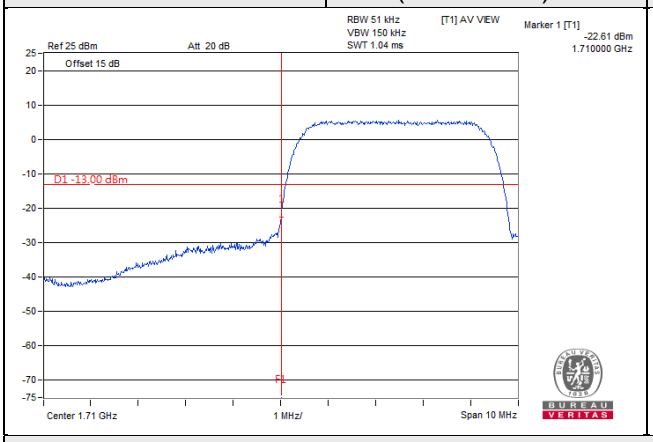
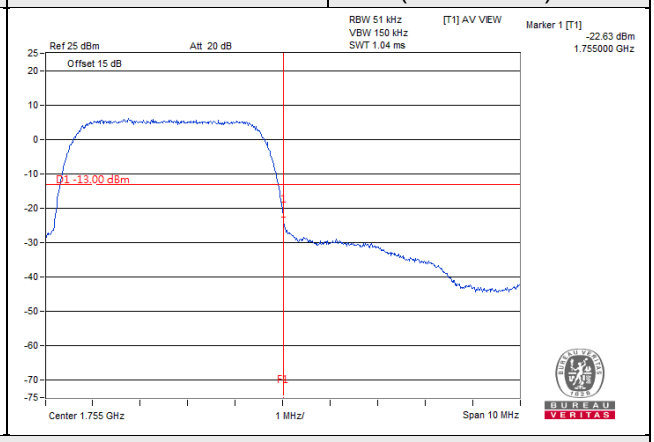
4.5.2 Test Setup

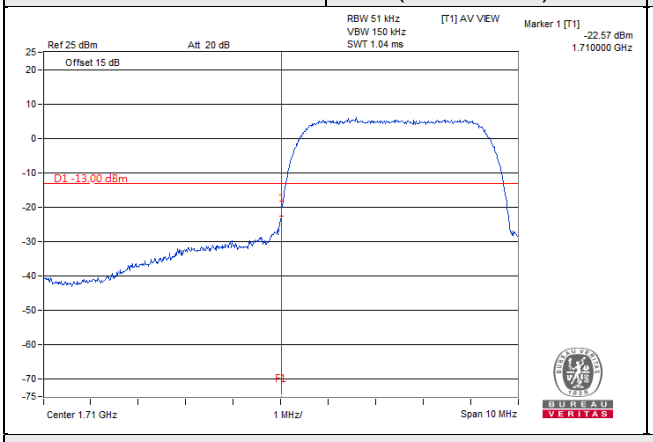
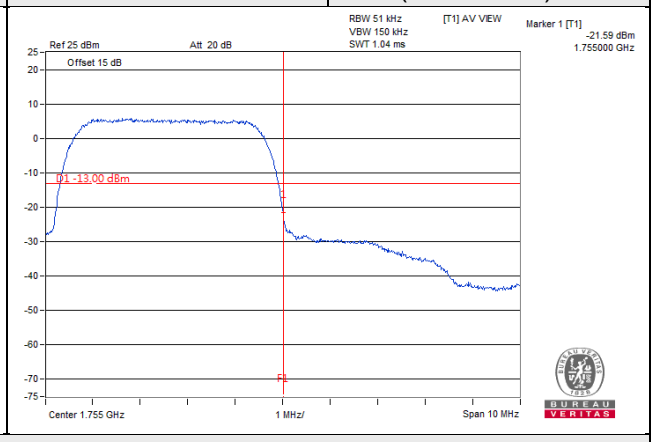


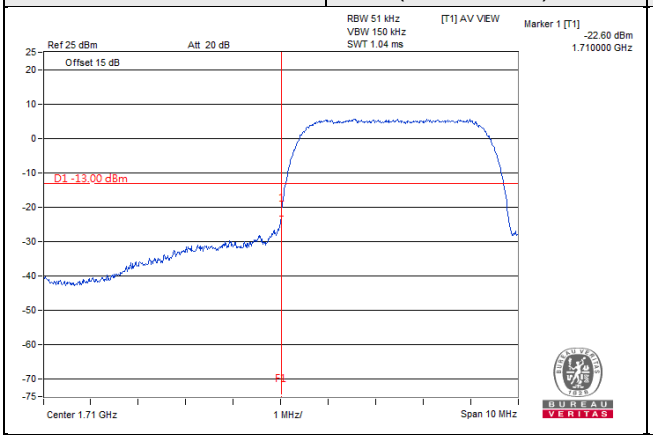
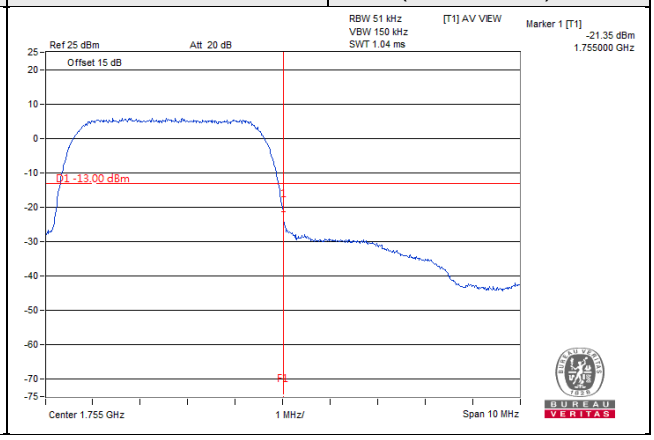
4.5.3 Test Procedures

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 10MHz. RB of the spectrum is 51kHz and VB of the spectrum is 150kHz (WCDMA / HSDPA / HSUPA).
c. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 15kHz and VB of the spectrum is 51kHz (LTE Channel Bandwidth 1.4MHz).
d. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Channel Bandwidth 3MHz).
e. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 62kHz and VB of the spectrum is 200kHz (LTE Channel Bandwidth 5MHz).
f. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Channel Bandwidth 10MHz).
g. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 150kHz and VB of the spectrum is 470kHz (LTE Channel Bandwidth 15MHz).
h. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 200kHz and VB of the spectrum is 1MHz (LTE Channel Bandwidth 20MHz).
i. Except WCDMA Band 4 and LTE Band 4, other LTE Band measurement procedure refer 27.53(m)(6).
j. Record the max trace plot into the test report.

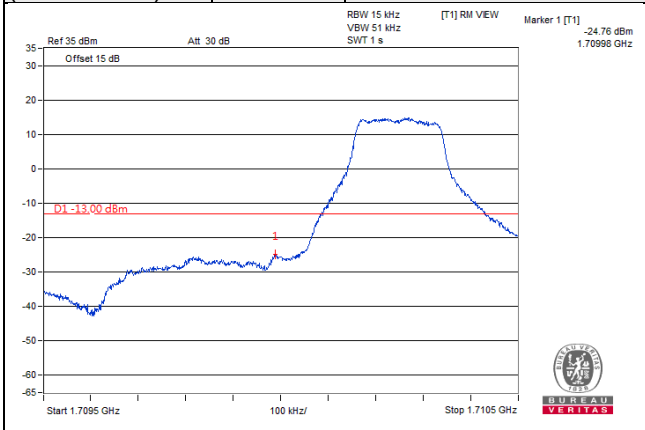
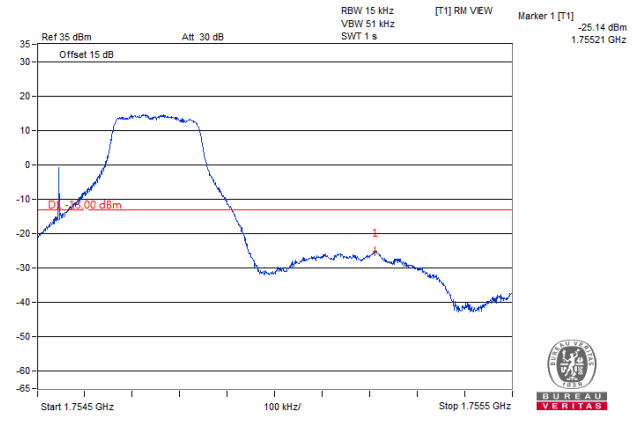
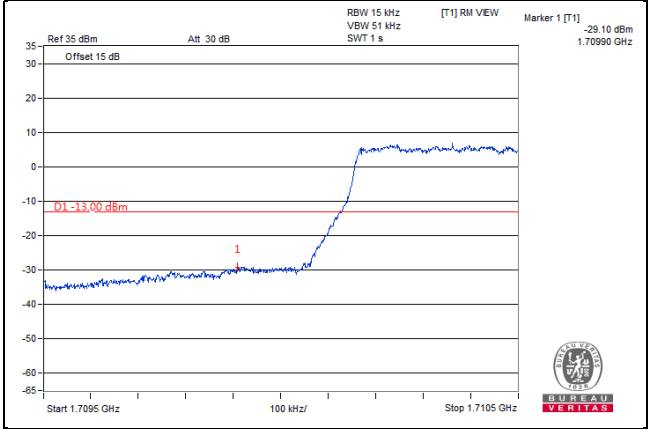
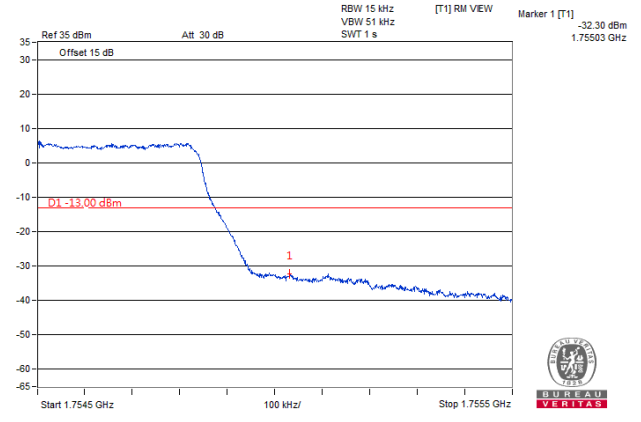
4.5.4 Test Results

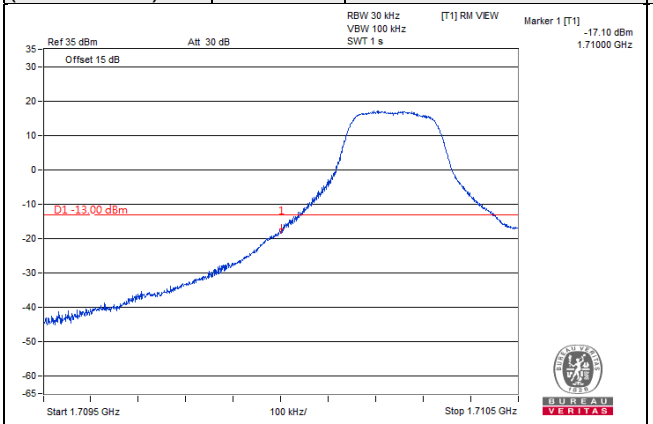
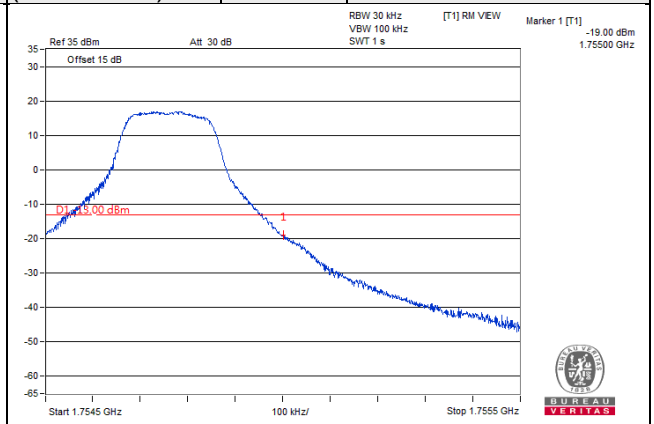
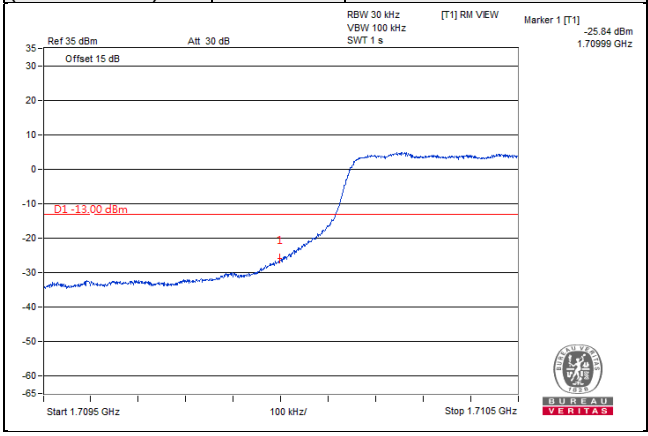
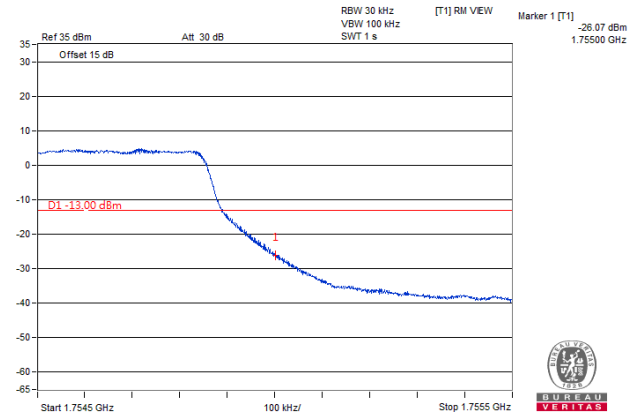
WCDMA Band 4			
Channel	1312 (1712.4MHz)	Channel	1513 (1752.6MHz)
			

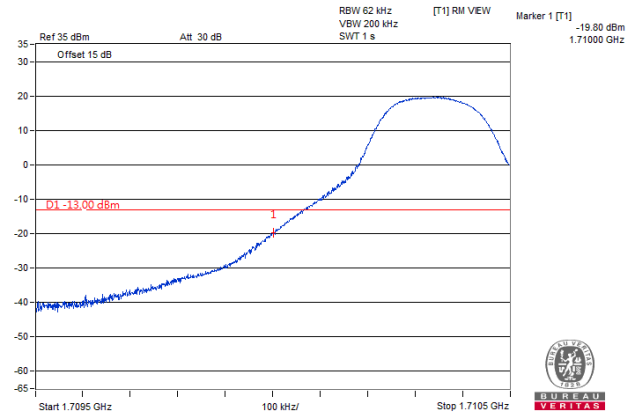
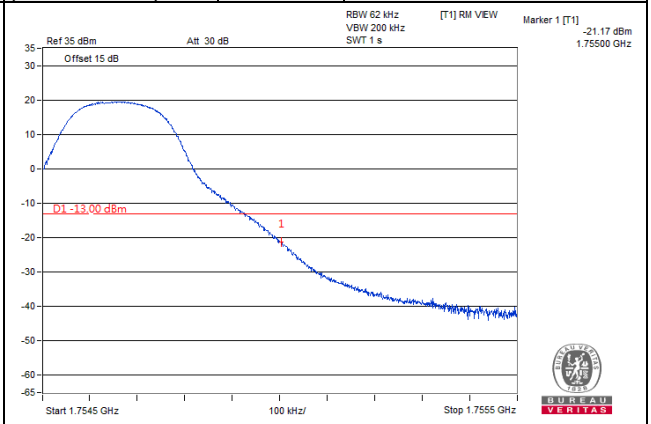
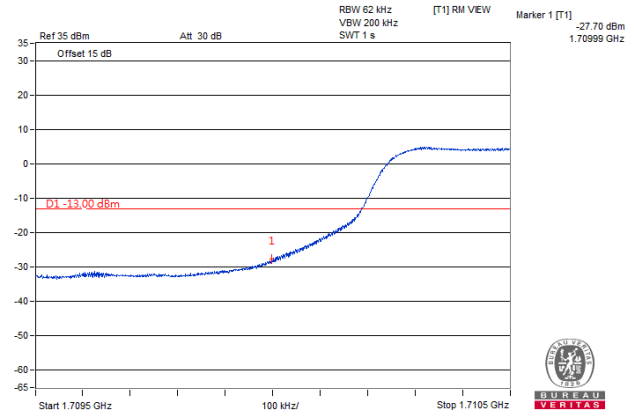
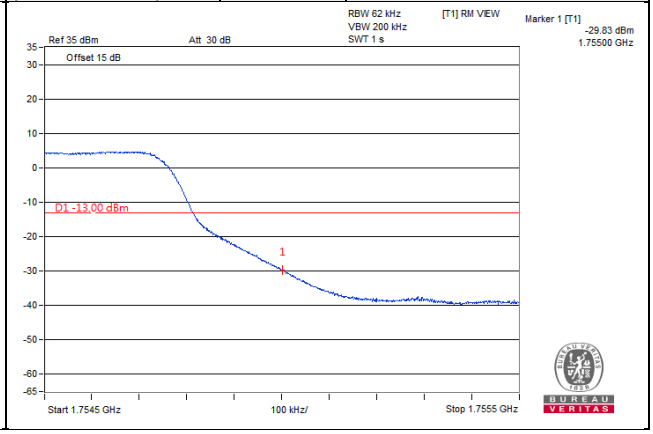
HSDPA			
Channel	1312 (1712.4MHz)	Channel	1513 (1752.6MHz)
			

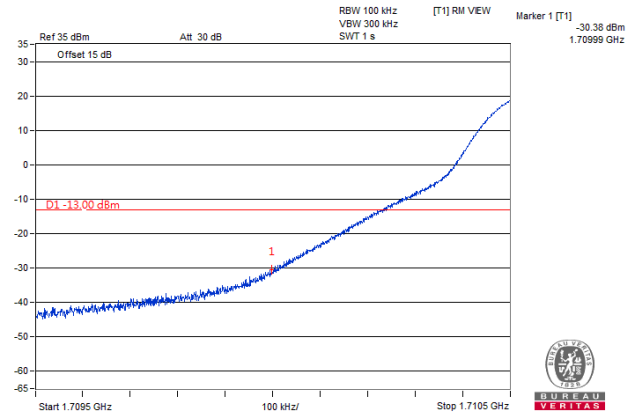
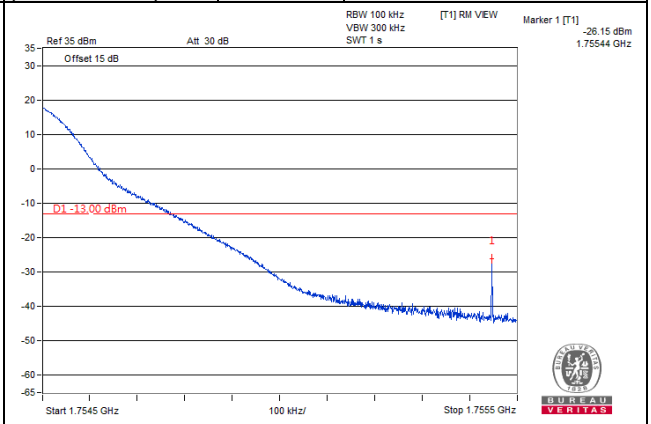
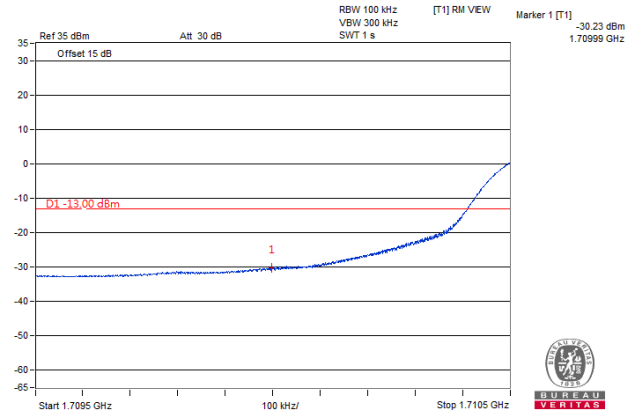
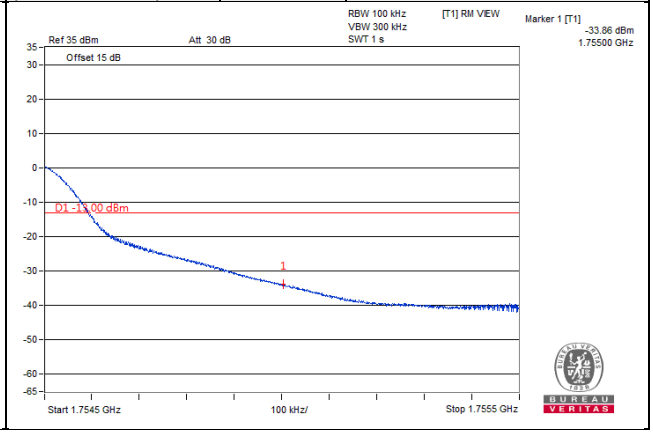
HSUPA			
Channel	1312 (1712.4MHz)	Channel	1513 (1752.6MHz)
			

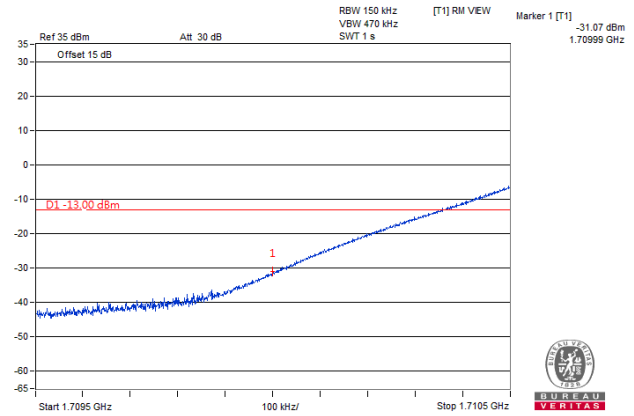
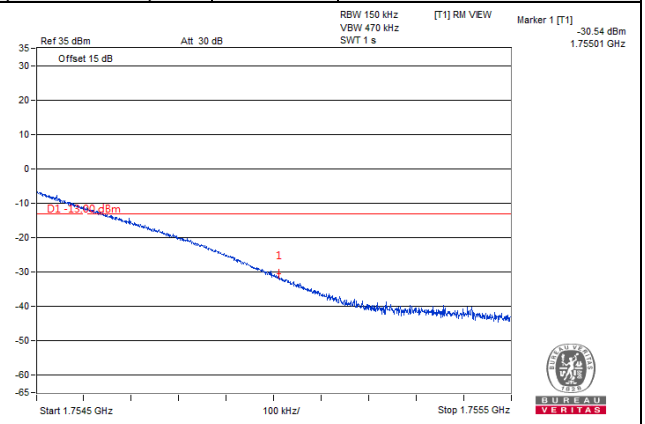
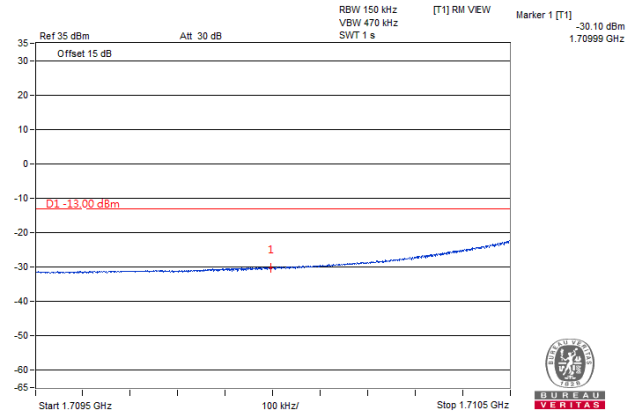
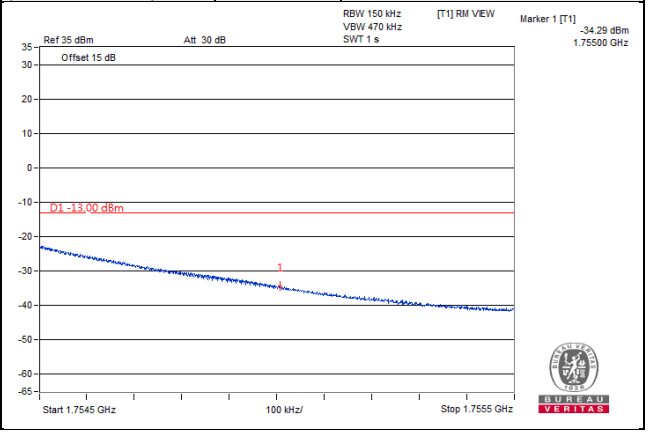
LTE Band 4

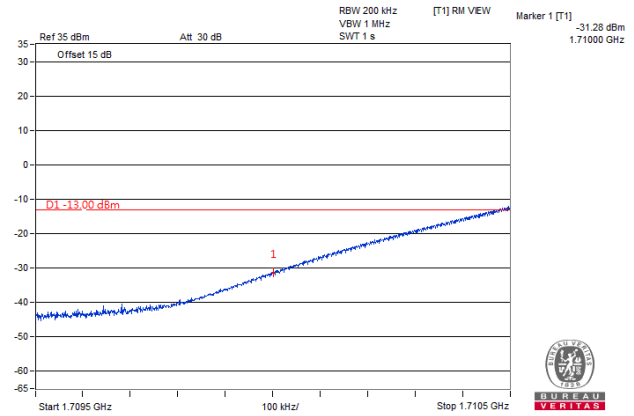
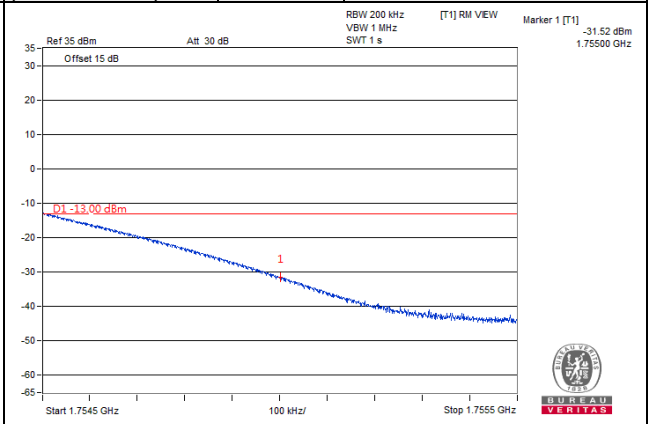
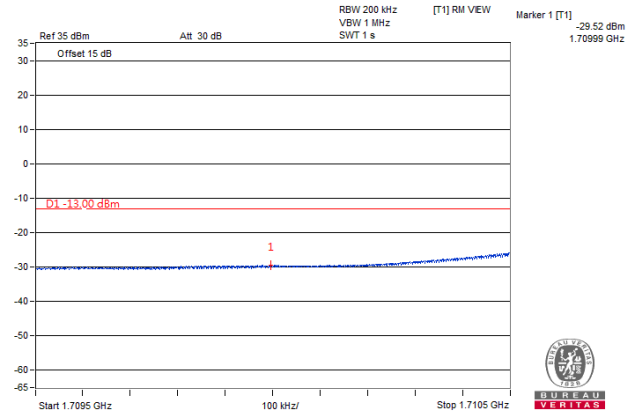
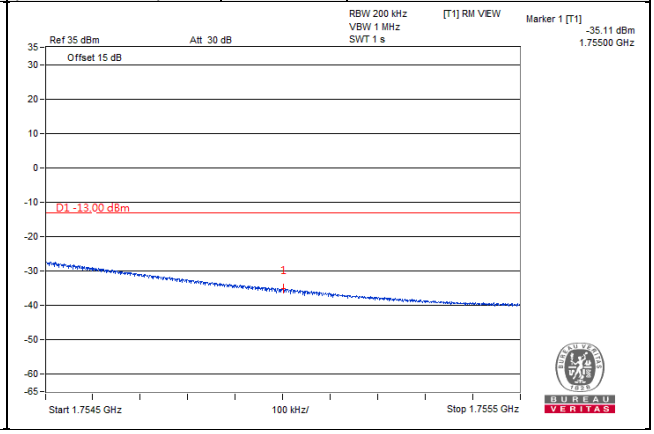
Channel Bandwidth: 1.4MHz					
Channel 19957 (1710.7MHz)	QPSK	1 RB / 0 RB Offset	Channel 20393 (1754.3MHz)	QPSK	1 RB / 5 RB Offset
					
Channel 19957 (1710.7MHz)	QPSK	6 RB / 0 RB Offset	Channel 20393 (1754.3MHz)	QPSK	6 RB / 0 RB Offset
					

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 19975 (1712.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 20375 (1752.5MHz)	QPSK	1 RB / 24 RB Offset
					
Channel 19975 (1712.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 20375 (1752.5MHz)	QPSK	25 RB / 0 RB Offset
					

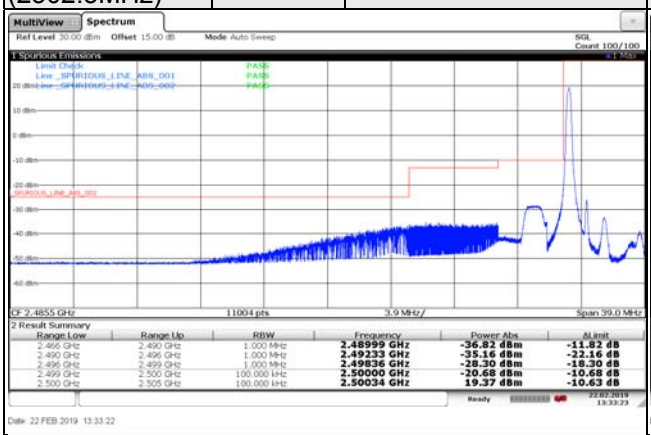
Channel Bandwidth: 10MHz					
Channel 20000 (1715.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 20350 (1750.0MHz)	QPSK	1 RB / 49 RB Offset
					
Channel 20000 (1715.0MHz)	QPSK	50 RB / 0 RB Offset	Channel 20350 (1750.0MHz)	QPSK	50 RB / 0 RB Offset
					

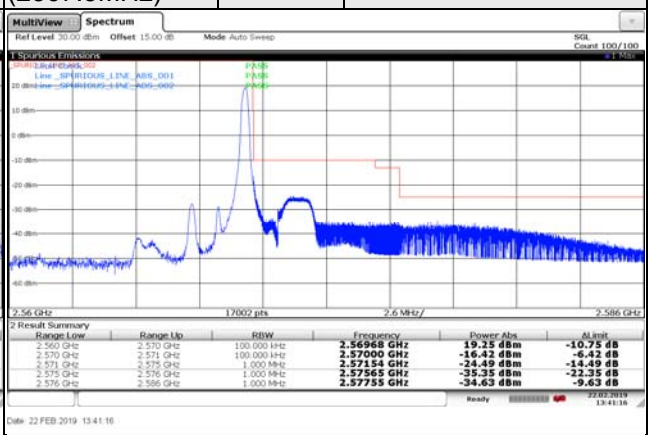
Channel Bandwidth: 15MHz					
Channel 20025 (1717.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 20325 (1747.5MHz)	QPSK	1 RB / 74 RB Offset
					
Channel 20025 (1717.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 20325 (1747.5MHz)	QPSK	75 RB / 0 RB Offset
					

Channel Bandwidth: 20MHz					
Channel 20050 (1720.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 20300 (1745.0MHz)	QPSK	1 RB / 99 RB Offset
					
Channel 20050 (1720.0MHz)	QPSK	100 RB / 0 RB Offset	Channel 20300 (1745.0MHz)	QPSK	100 RB / 0 RB Offset
					

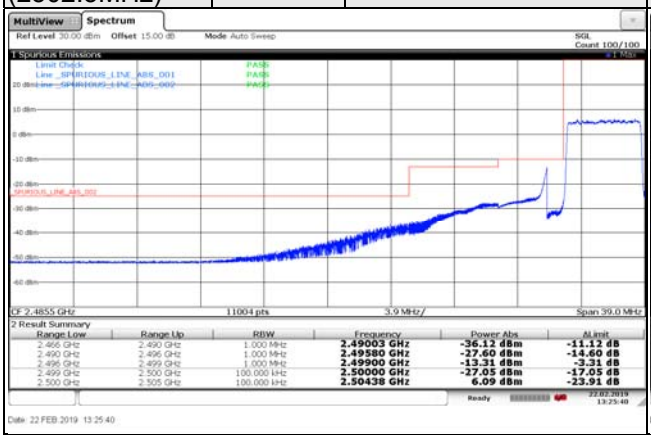
LTE Band 7

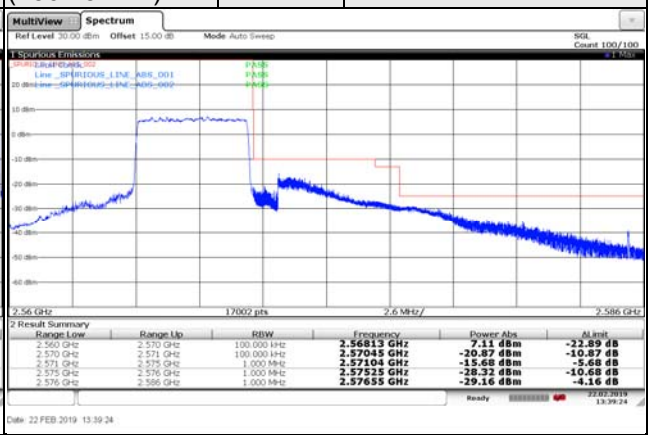
Channel Bandwidth: 5MHz					
Channel 20775 (2502.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 21425 (2567.5MHz)	QPSK	1 RB / 24 RB Offset



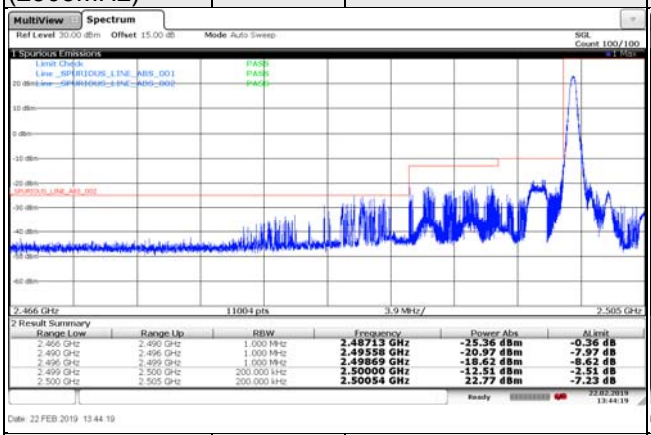


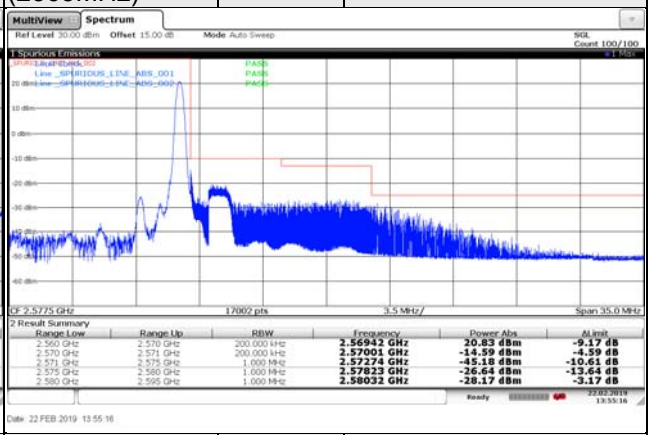
Channel 20775 (2502.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 21425 (2567.5MHz)	QPSK	25 RB / 0 RB Offset



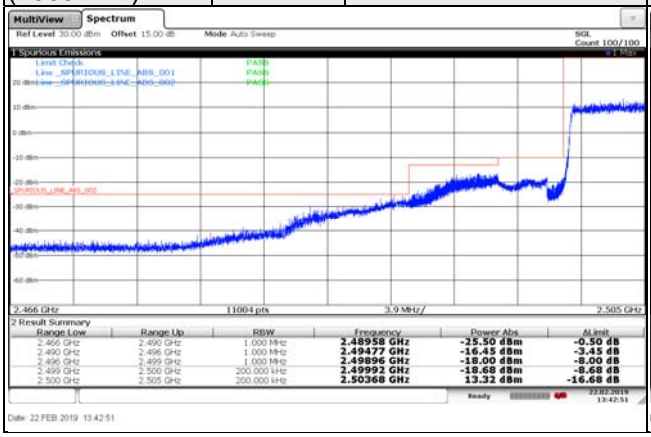


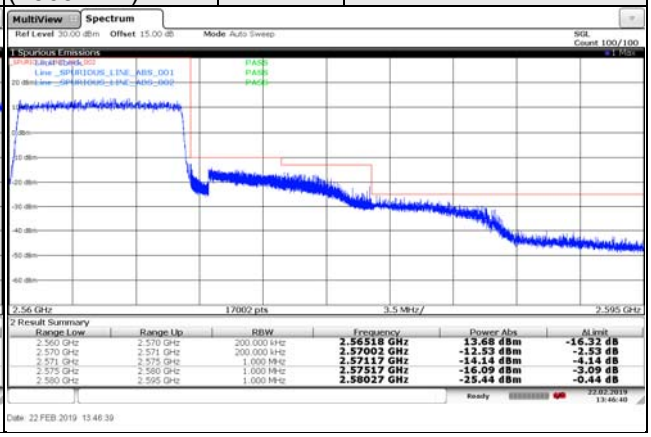
Channel Bandwidth: 10MHz					
Channel 20800 (2505MHz)	QPSK	1 RB / 0 RB Offset	Channel 21400 (2565MHz)	QPSK	1 RB / 49RB Offset

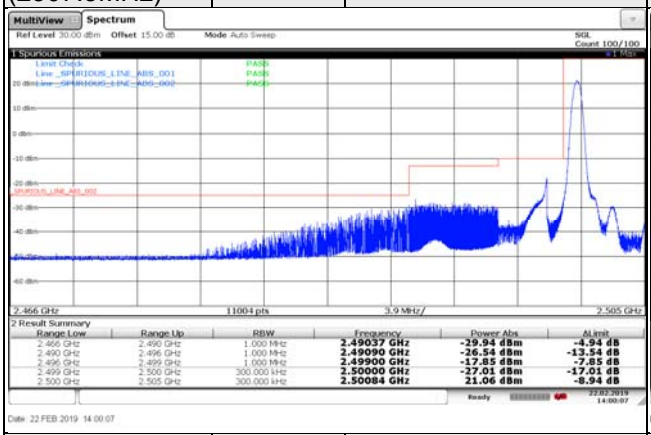
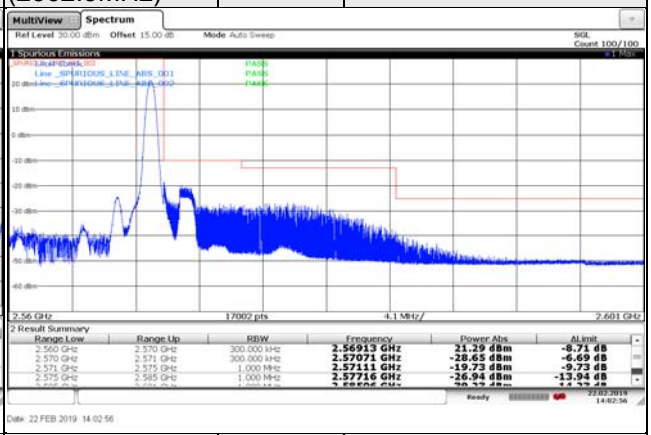
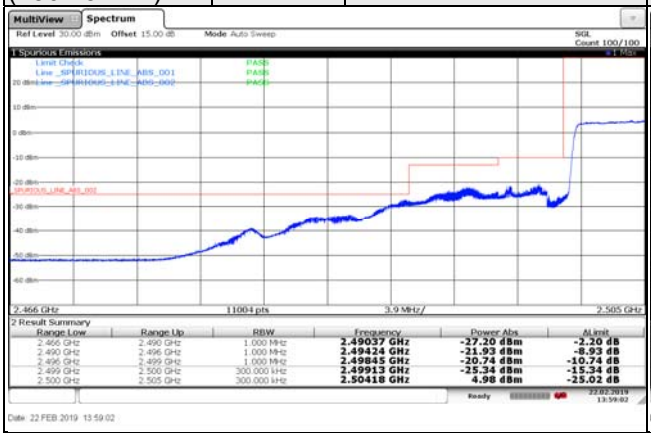


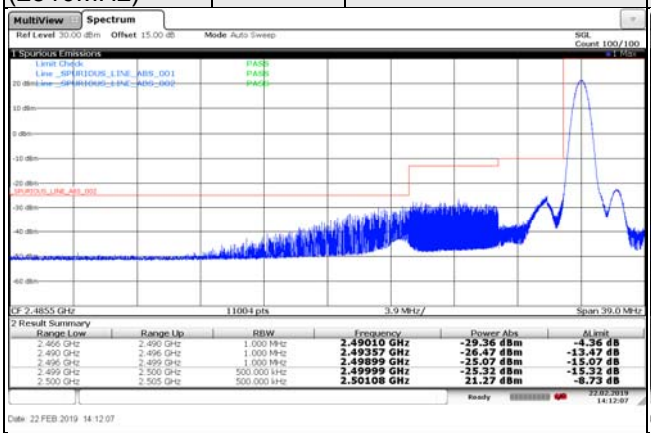
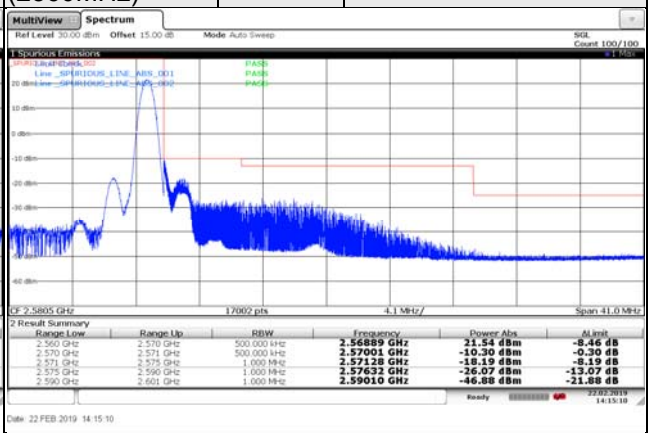
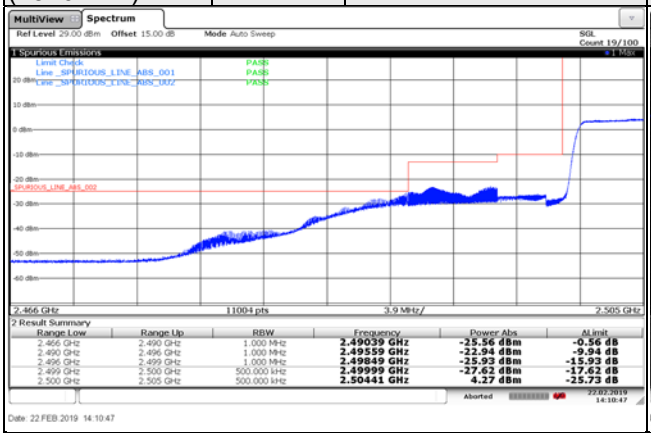


Channel 20800 (2505MHz)	QPSK	50 RB / 0 RB Offset	Channel 21400 (2565MHz)	QPSK	50 RB / 0 RB Offset

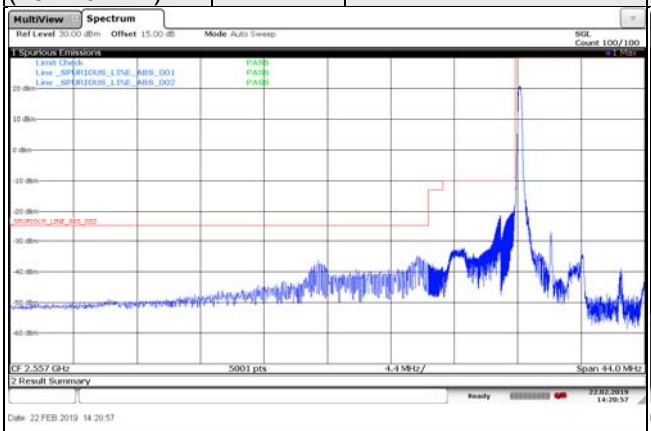
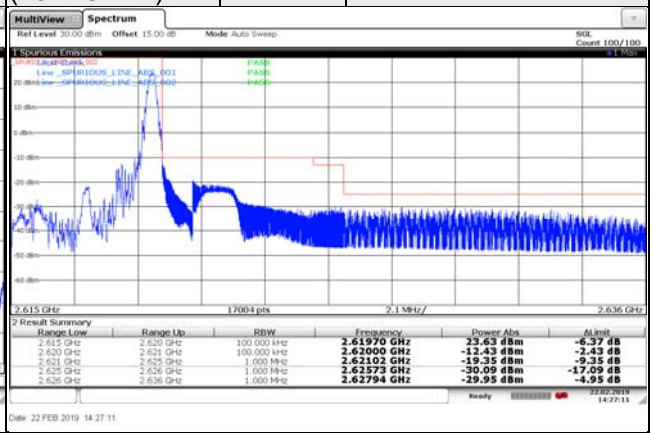
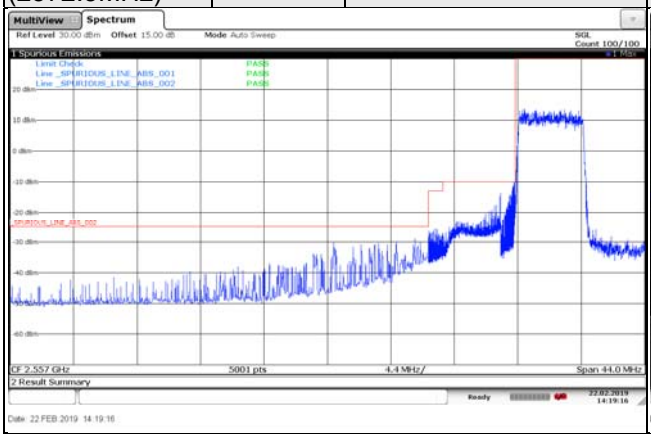
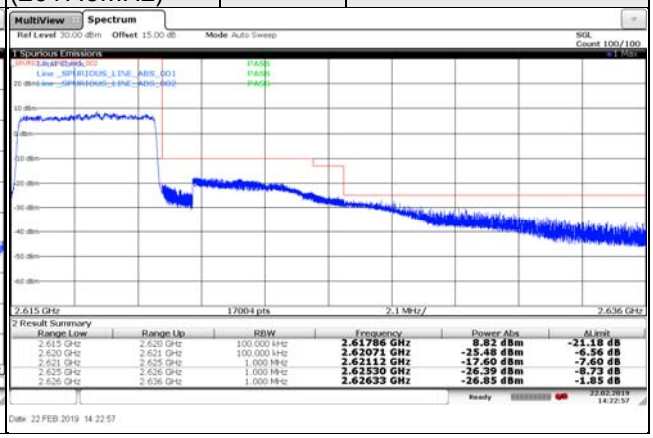


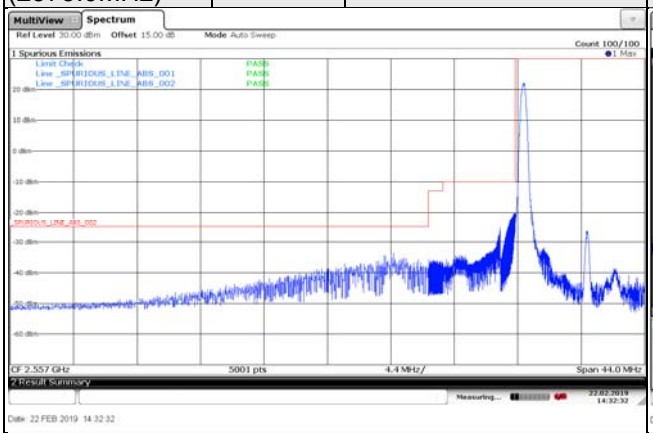
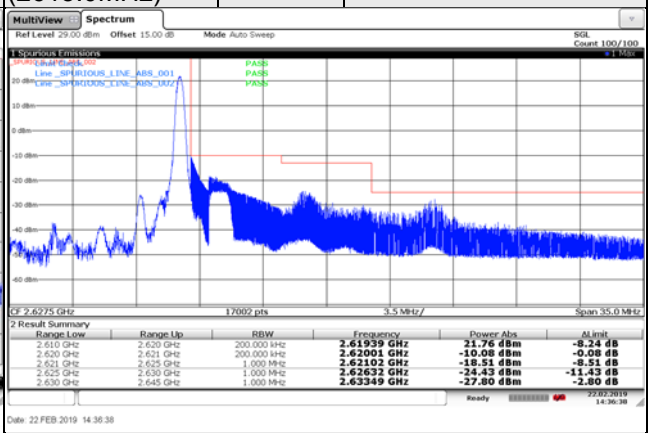
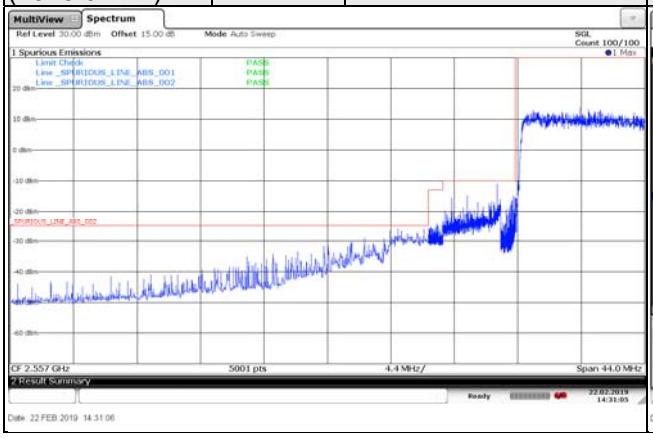
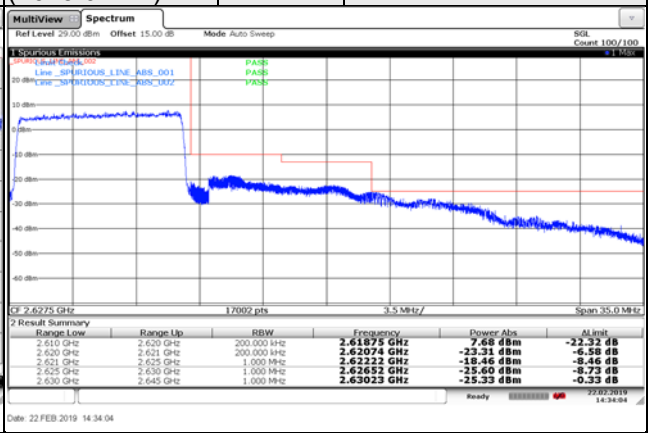


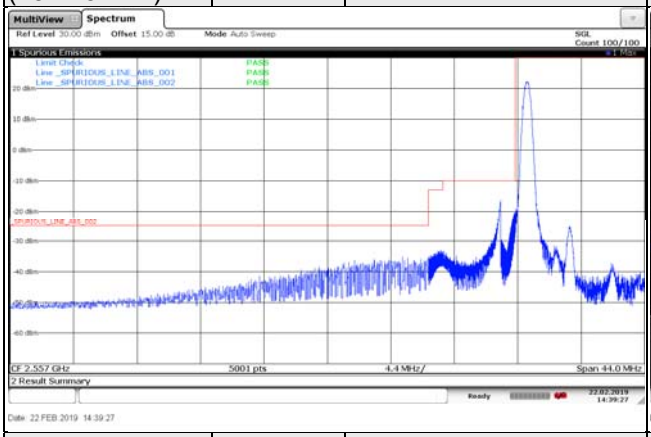
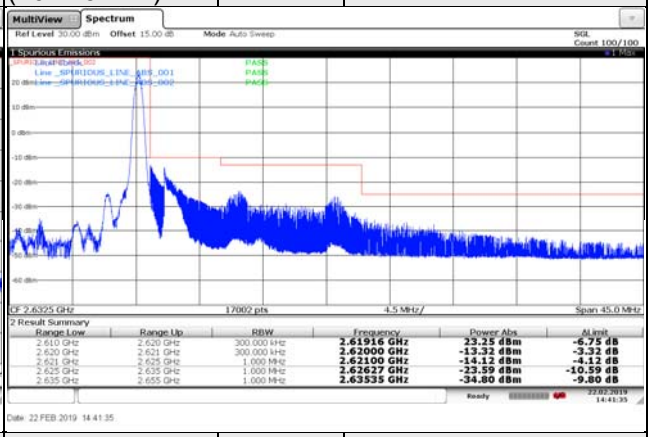
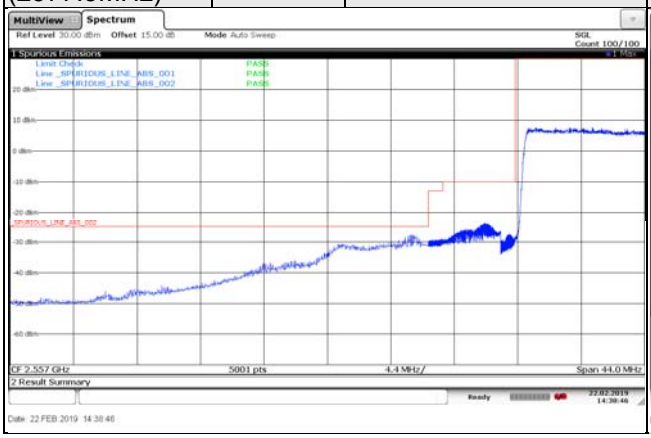
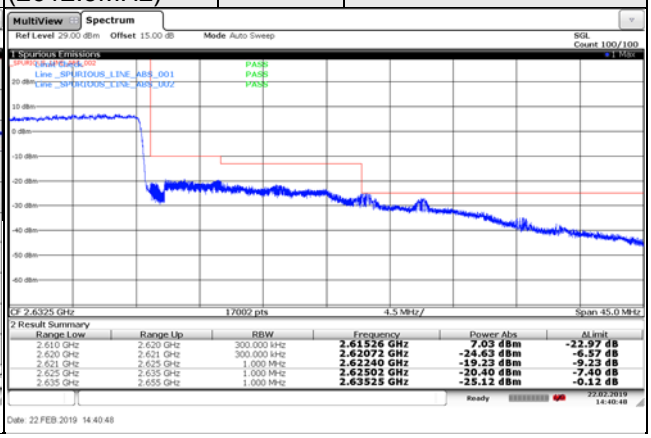
Channel Bandwidth: 15MHz					
Channel 20825 (2507.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 21375 (2562.5MHz)	QPSK	1 RB / 74RB Offset
					
Channel 20825 (2507.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 21375 (2562.5MHz)	QPSK	75 RB / 0 RB Offset
					

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
					

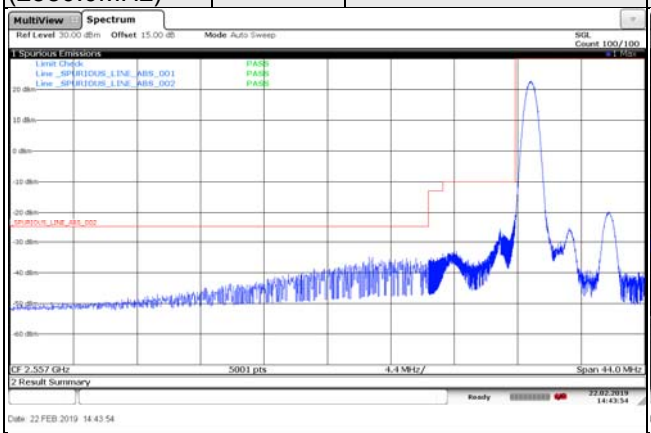
LTE Band 38

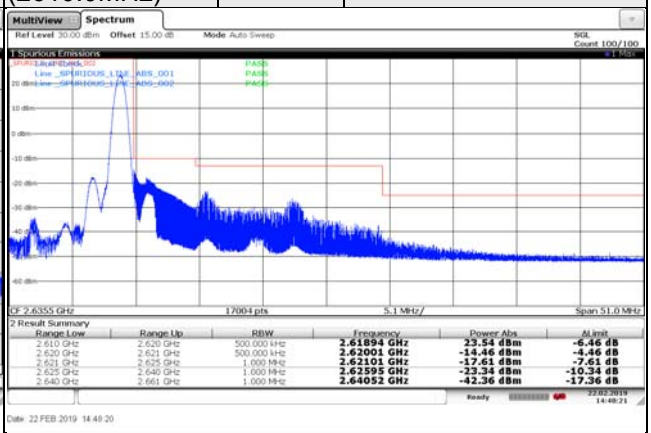
Channel Bandwidth: 5MHz					
Channel 37775 (2572.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 38225 (2617.5MHz)	QPSK	1 RB / 24 RB Offset
					
Channel 37775 (2572.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 38225 (2617.5MHz)	QPSK	25 RB / 0 RB Offset
					

Channel Bandwidth: 10MHz					
Channel 37800 (2575.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 38200 (2615.0MHz)	QPSK	1 RB / 49 RB Offset
					
Channel 37800 (2575.0MHz)	QPSK	50 RB / 0 RB Offset	Channel 38200 (2615.0MHz)	QPSK	50 RB / 0 RB Offset
					

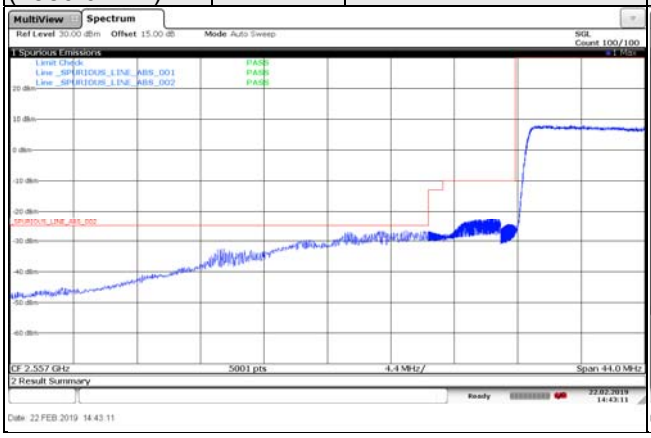
Channel Bandwidth: 15MHz					
Channel 37825 (2577.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 38175 (2612.5MHz)	QPSK	1 RB / 74RB Offset
					
Channel 37825 (2577.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 38175 (2612.5MHz)	QPSK	75 RB / 0 RB Offset
					

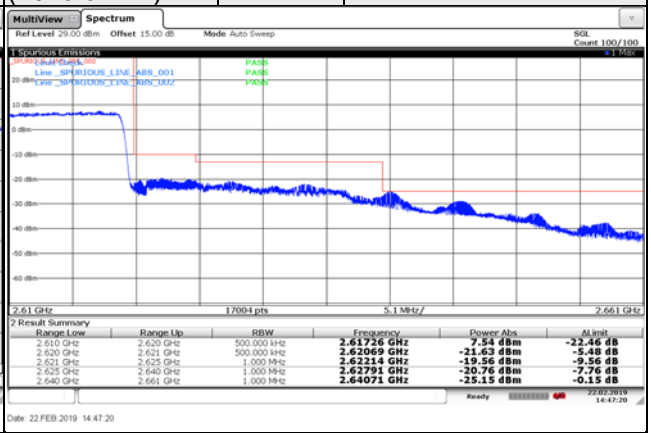
Channel Bandwidth: 20MHz					
Channel 37850 (2580.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 38150 (2610.0MHz)	QPSK	1 RB / 99 RB Offset





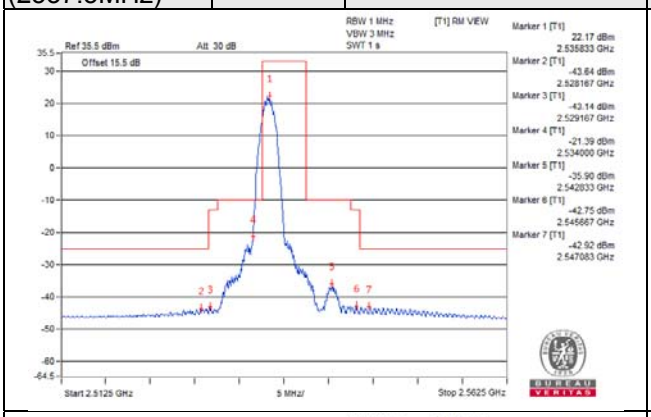
Channel 37850 (2580.0MHz)	QPSK	100 RB / 0 RB Offset	Channel 38150 (2610.0MHz)	QPSK	100 RB / 0 RB Offset

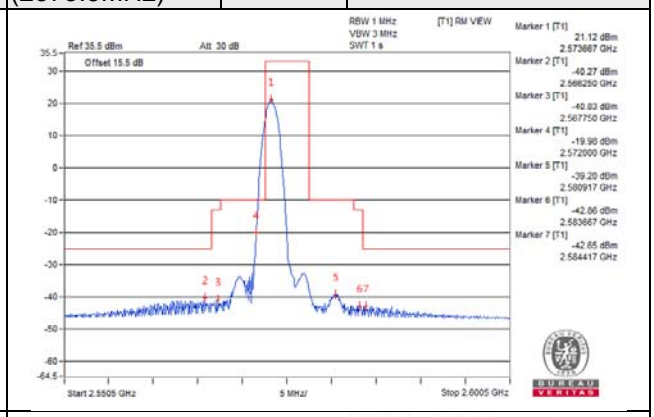


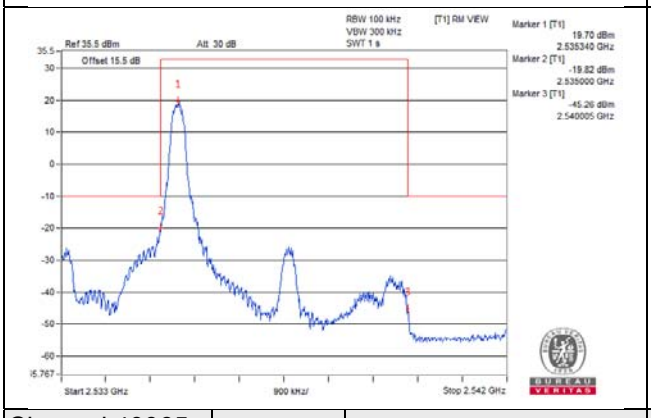


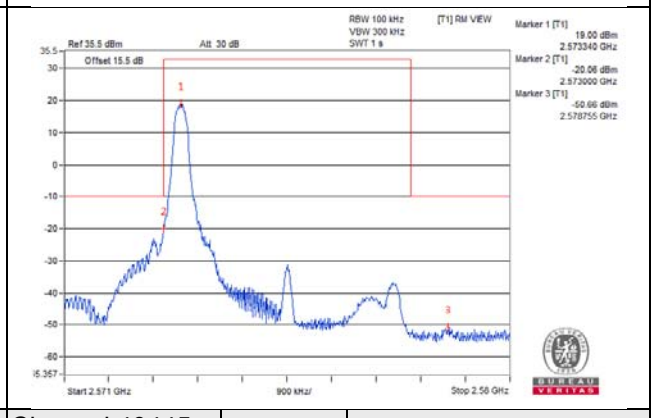
LTE Band 41

Channel Bandwidth: 5MHz					
Channel 40065 (2537.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 40445 (2575.5MHz)	QPSK	1 RB / 0 RB Offset

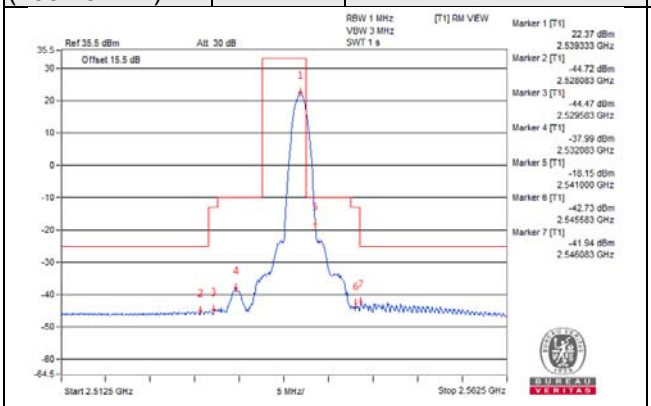


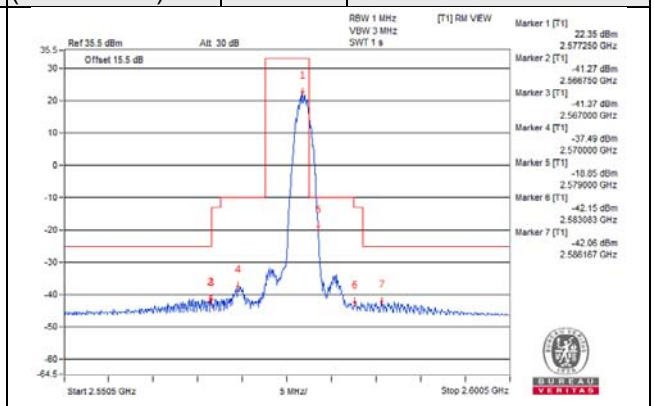


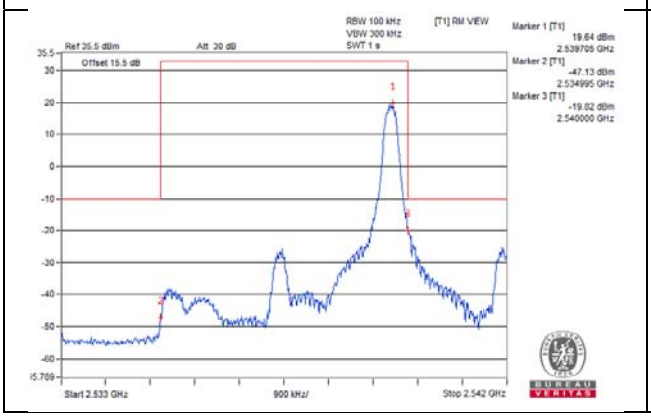


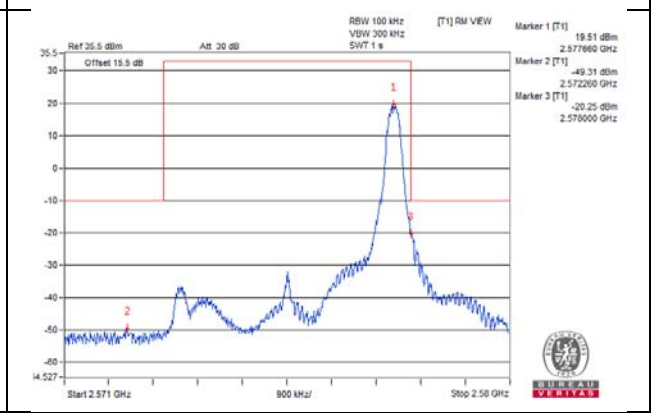


Channel 40065 (2537.5MHz)	QPSK	1 RB / 24 RB Offset	Channel 40445 (2575.5MHz)	QPSK	1 RB / 24 RB Offset

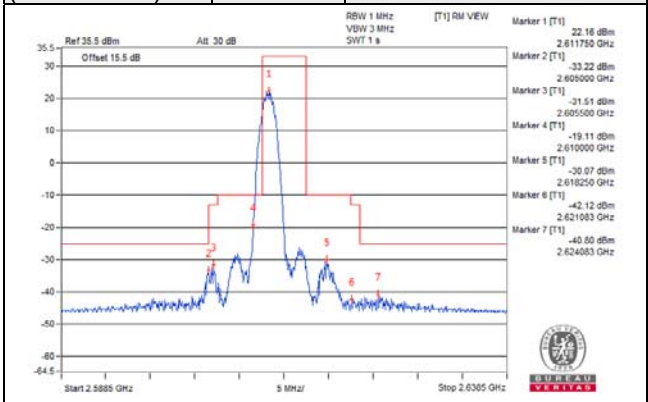


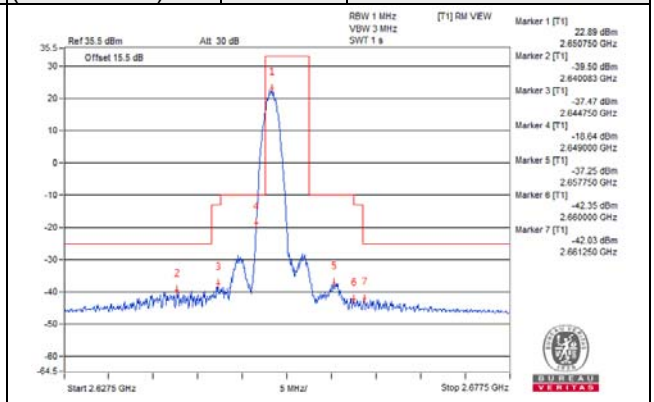


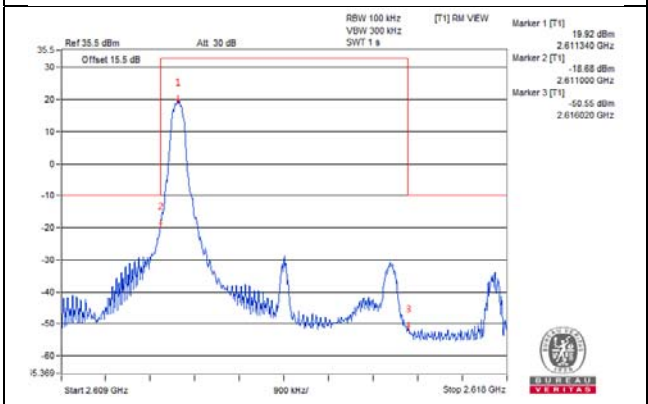


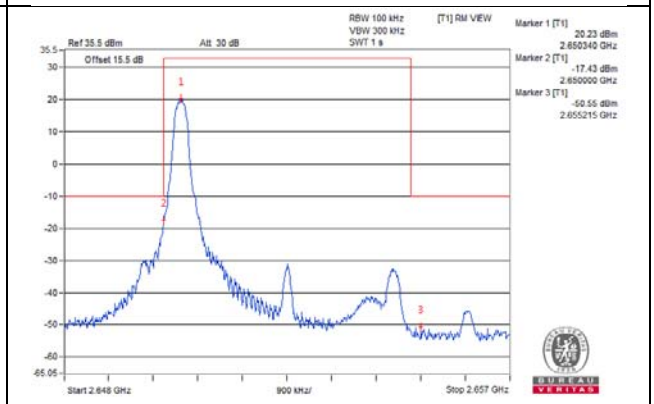


Channel Bandwidth: 5MHz					
Channel 40825 (2613.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 41215 (2652.5MHz)	QPSK	1 RB / 0 RB Offset

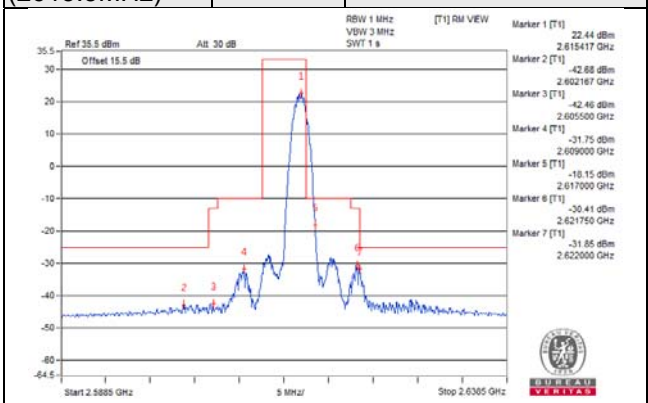


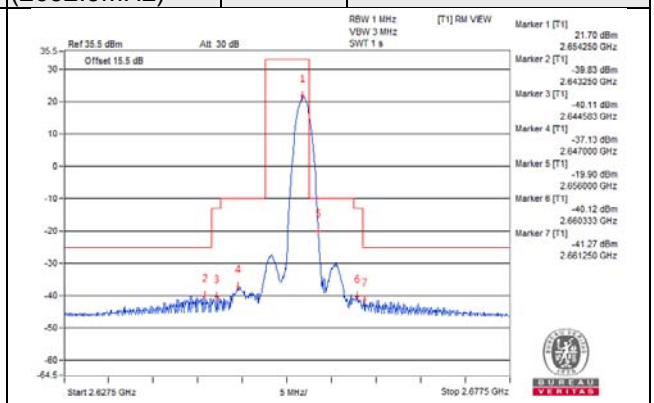


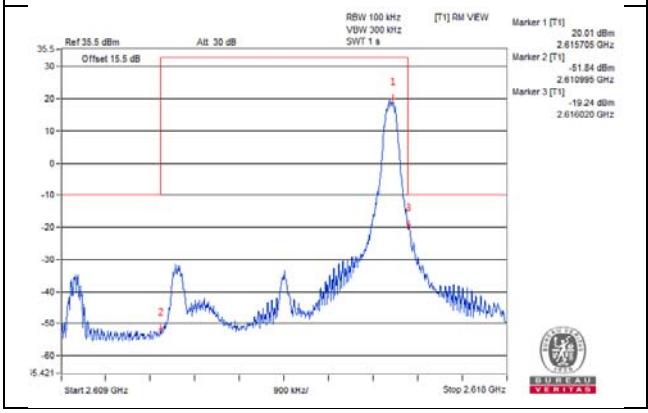


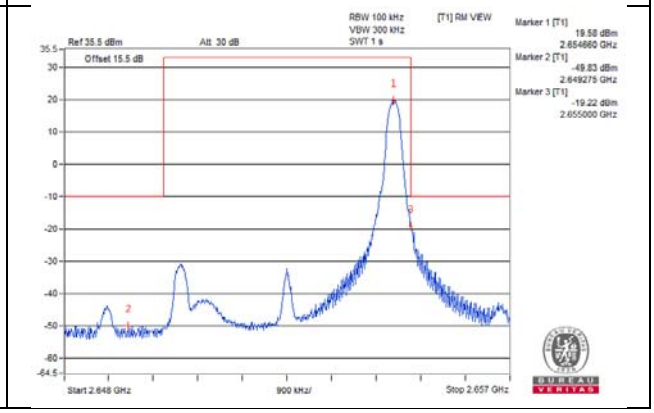


Channel 40825 (2613.5MHz)	QPSK	1 RB / 24 RB Offset	Channel 41215 (2652.5MHz)	QPSK	1 RB / 24 RB Offset

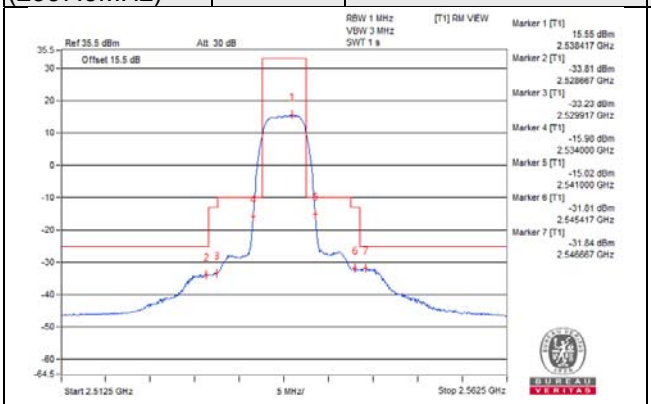


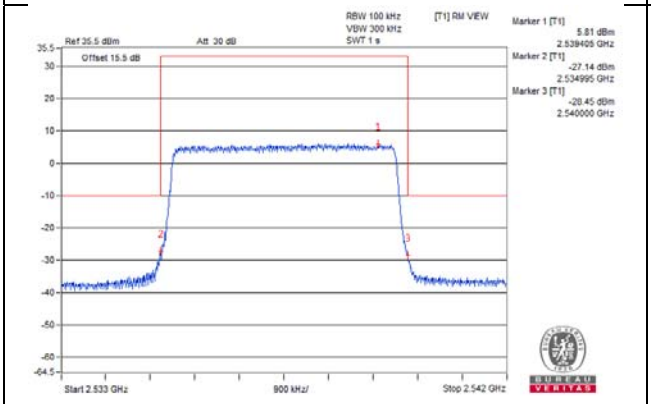


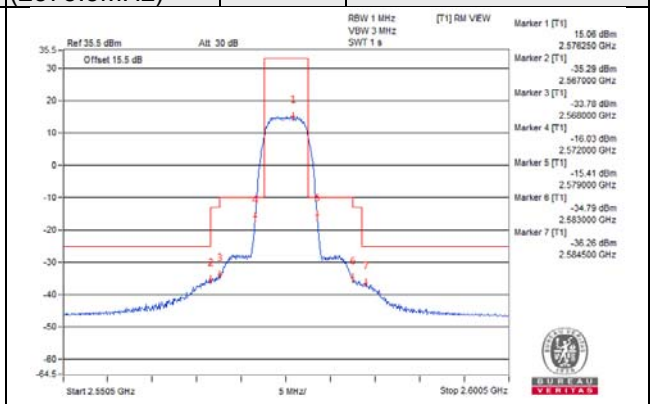


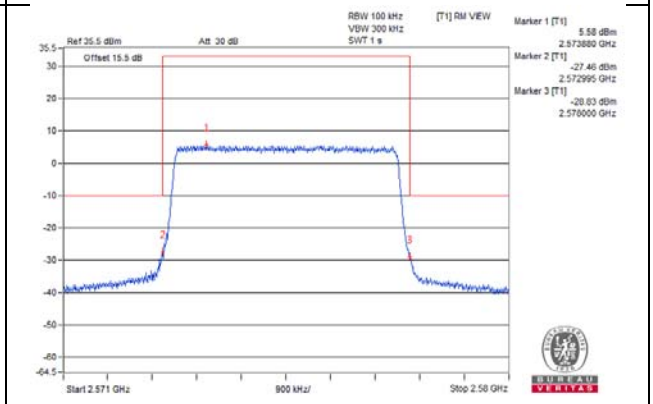


Channel Bandwidth: 5MHz					
Channel 40065 (2537.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 40445 (2575.5MHz)	QPSK	25 RB / 0 RB Offset

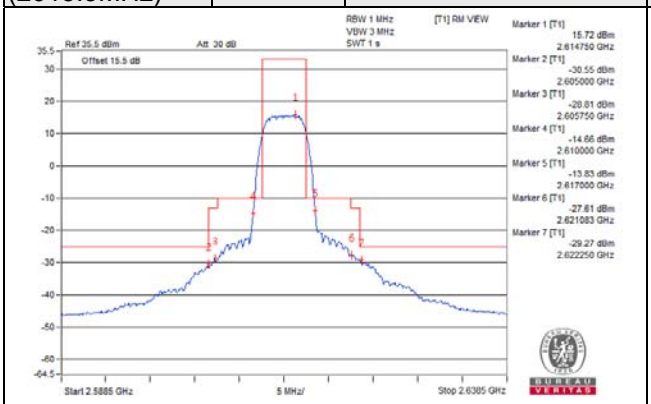


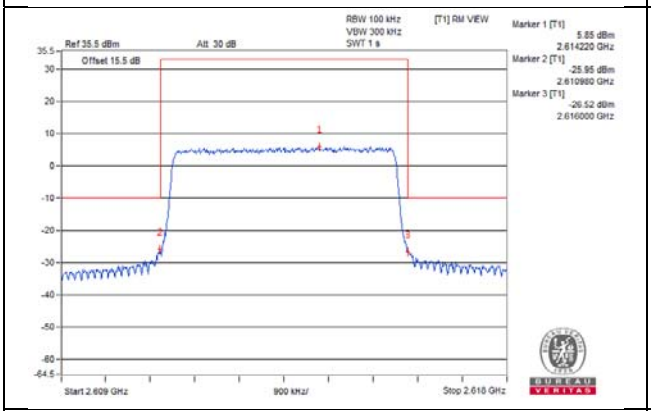


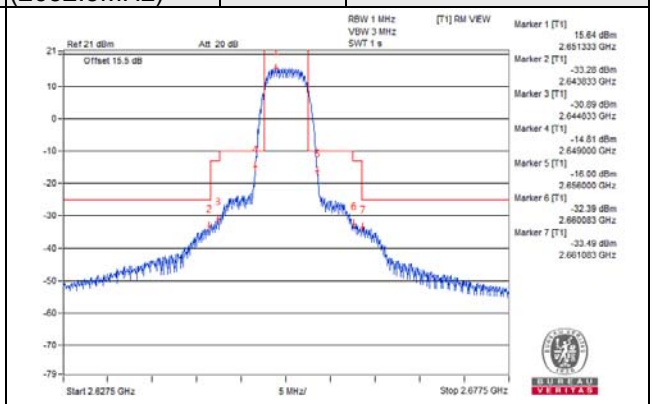


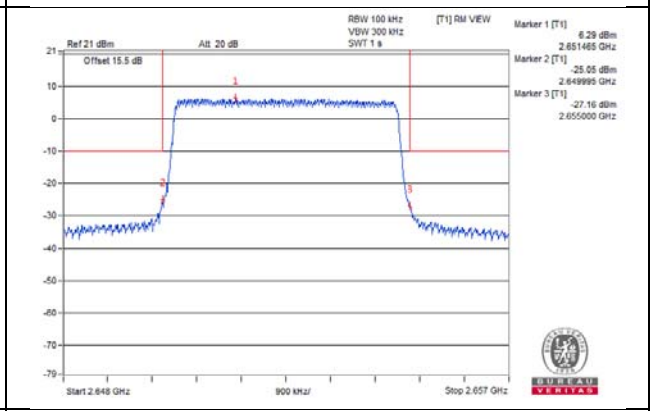


Channel 40825 (2613.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 41215 (2652.5MHz)	QPSK	25 RB / 0 RB Offset

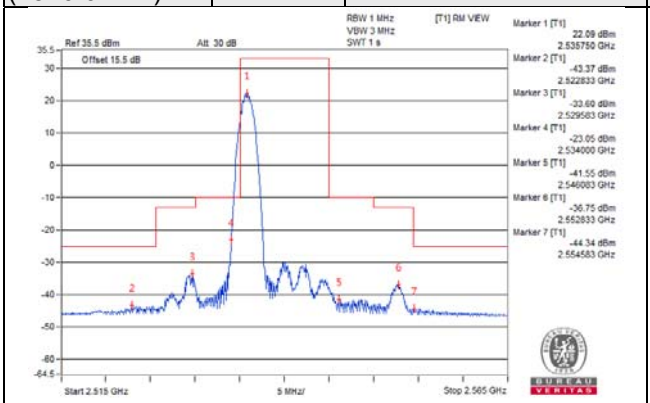


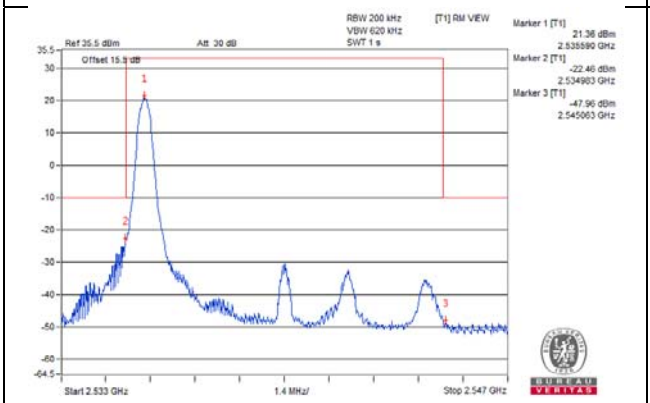


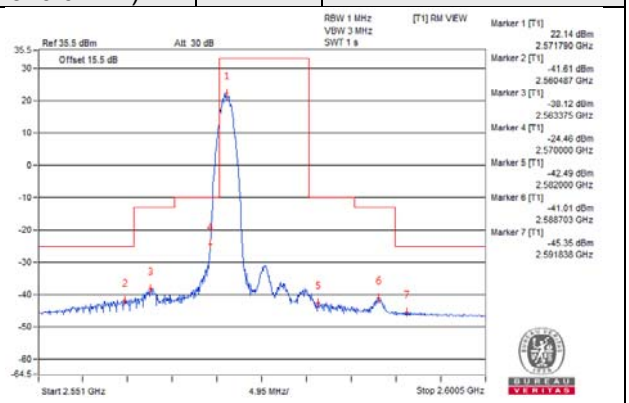


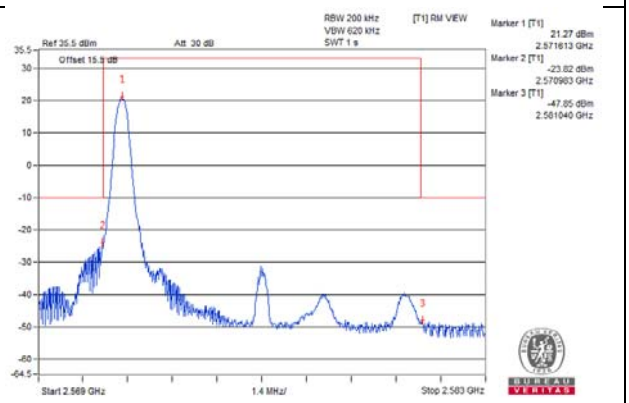


Channel Bandwidth: 10MHz					
Channel 40090 (2540.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 40450 (2576.0MHz)	QPSK	1 RB / 0 RB Offset

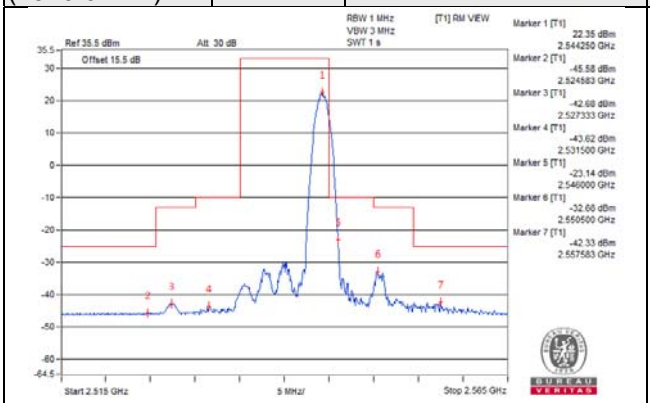


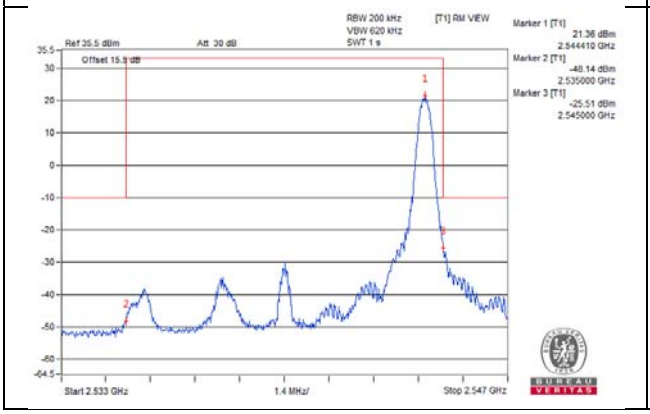


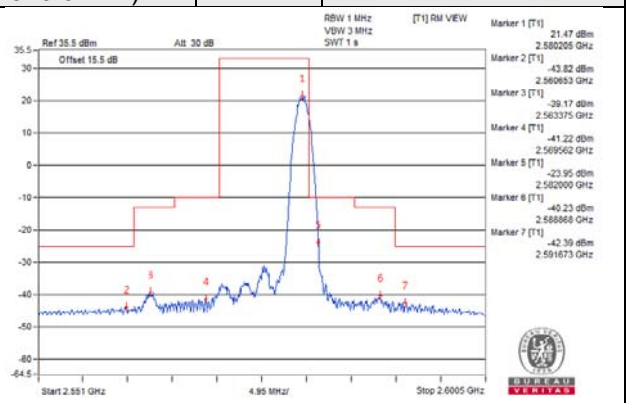


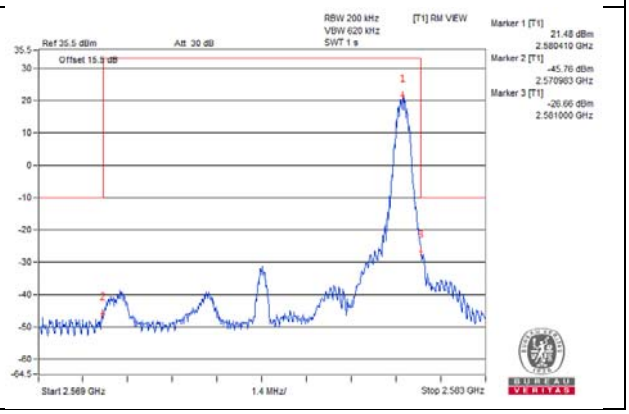


Channel 40090 (2540.0MHz)	QPSK	1 RB / 49 RB Offset	Channel 40450 (2576.0MHz)	QPSK	1 RB / 49 RB Offset

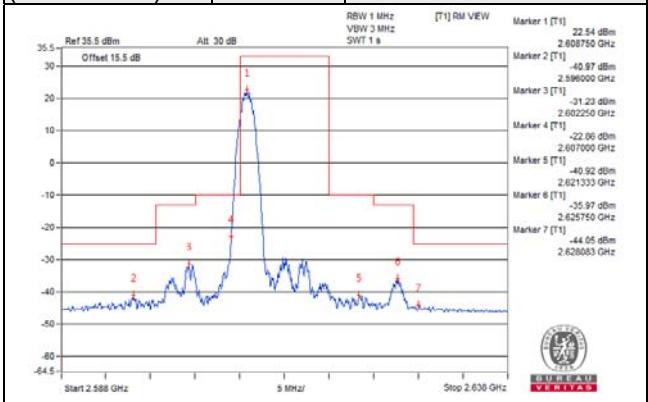


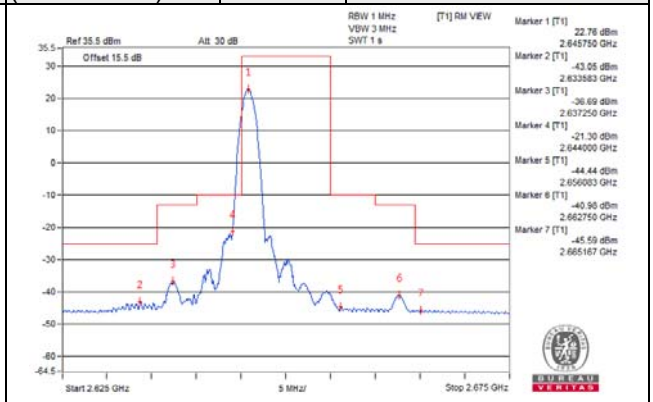


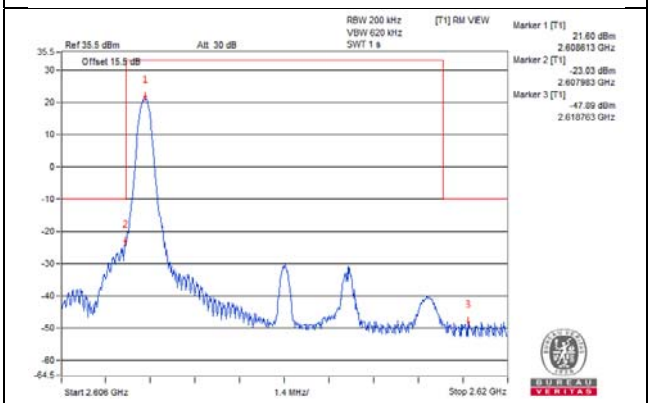


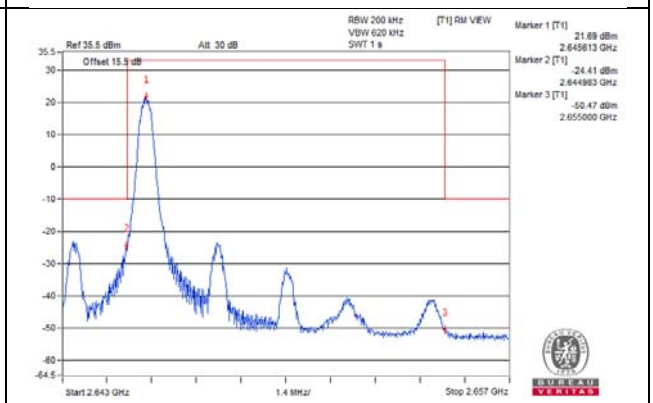


Channel Bandwidth: 10MHz					
Channel 40820 (2613.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 41190 (2650.0MHz)	QPSK	1 RB / 0 RB Offset

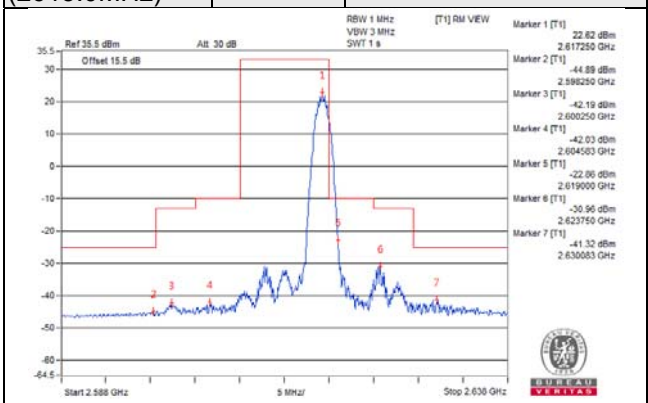


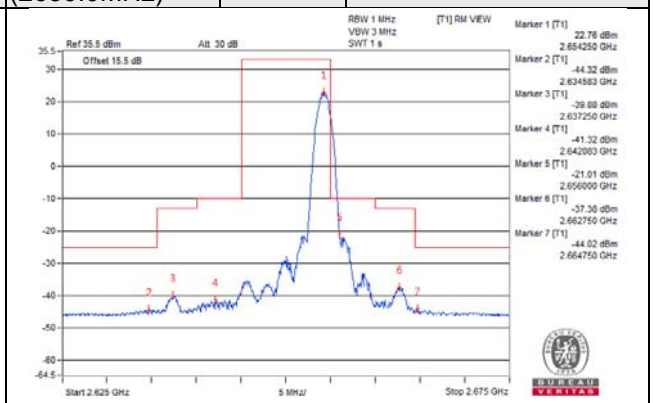


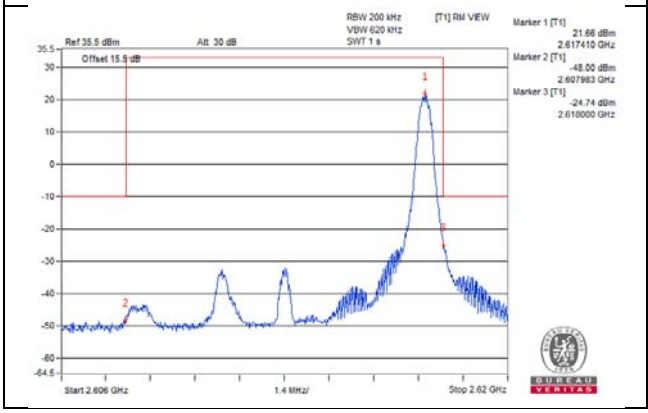


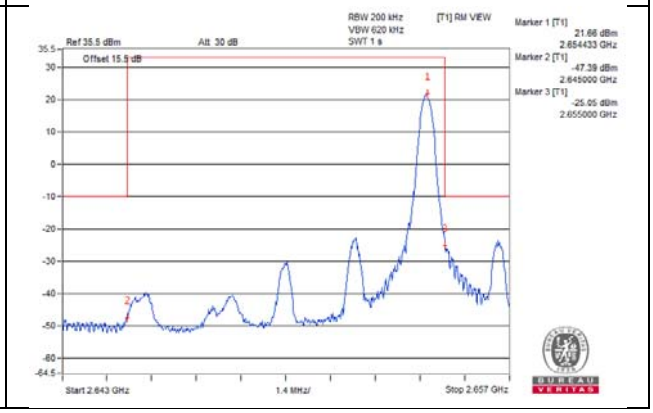


Channel 40820 (2613.0MHz)	QPSK	1 RB / 49 RB Offset	Channel 41190 (2650.0MHz)	QPSK	1 RB / 49 RB Offset

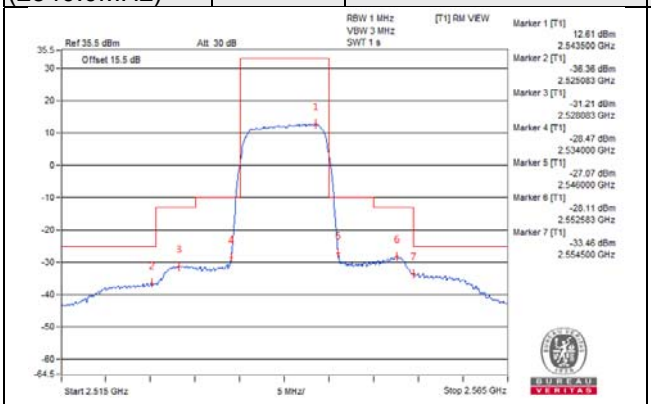


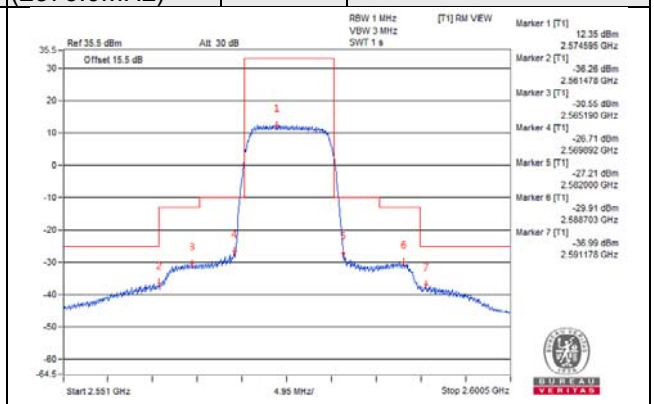


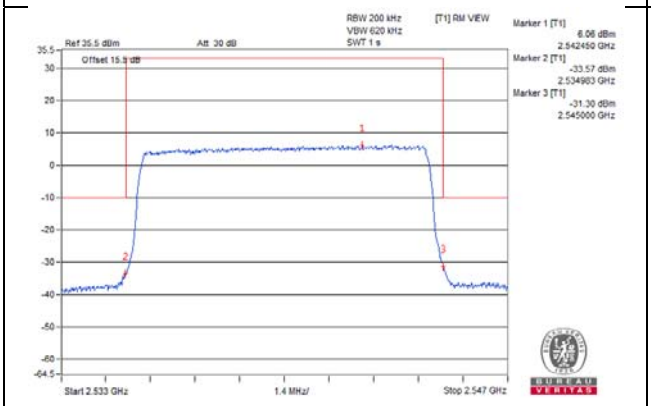


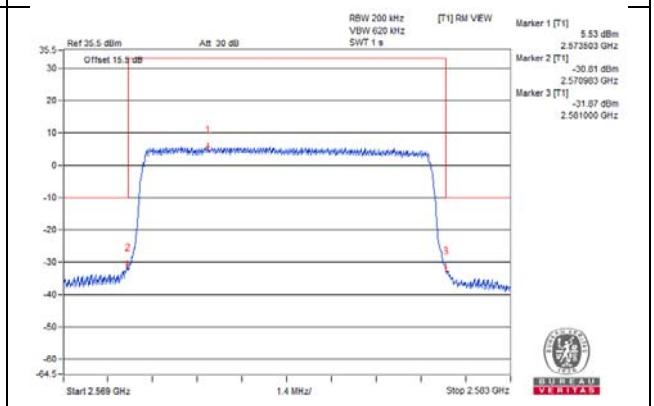


Channel Bandwidth: 10MHz					
Channel 40090 (2540.0MHz)	QPSK	50 RB / 0 RB Offset	Channel 40450 (2576.0MHz)	QPSK	50 RB / 0 RB Offset

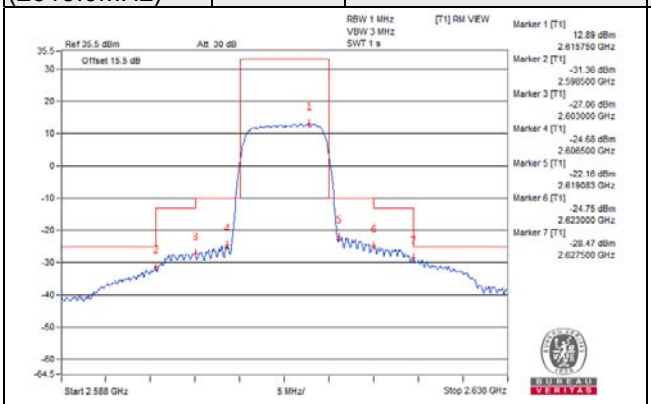


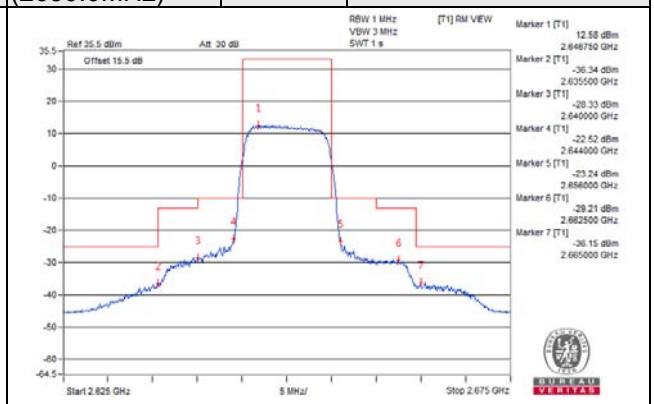


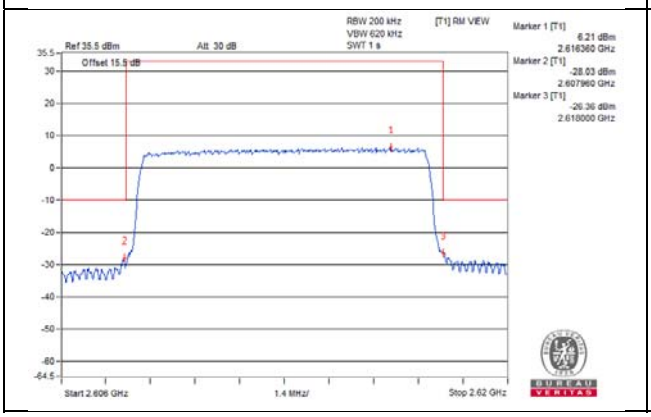


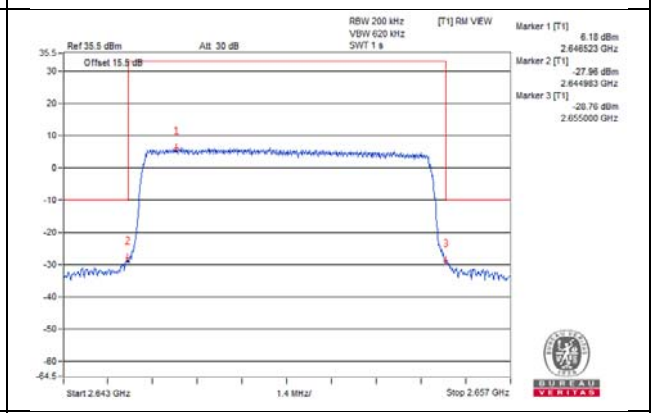


Channel 40820 (2613.0MHz)	QPSK	50 RB / 0 RB Offset	Channel 41190 (2650.0MHz)	QPSK	50 RB / 0 RB Offset

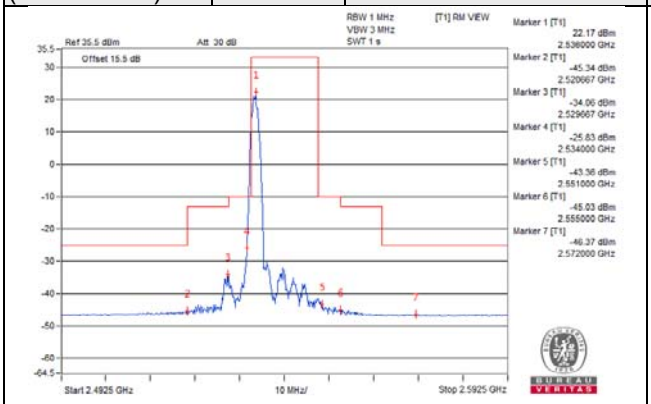


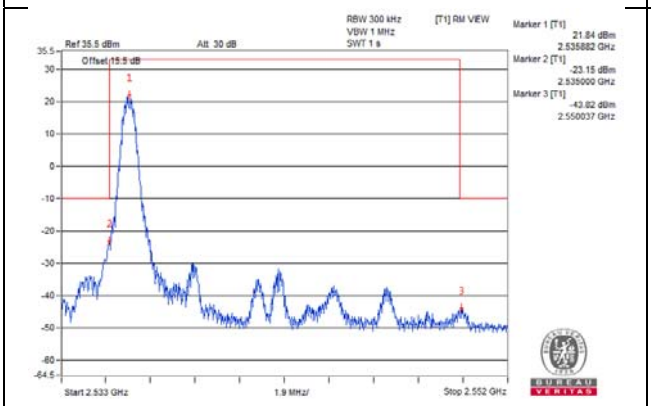


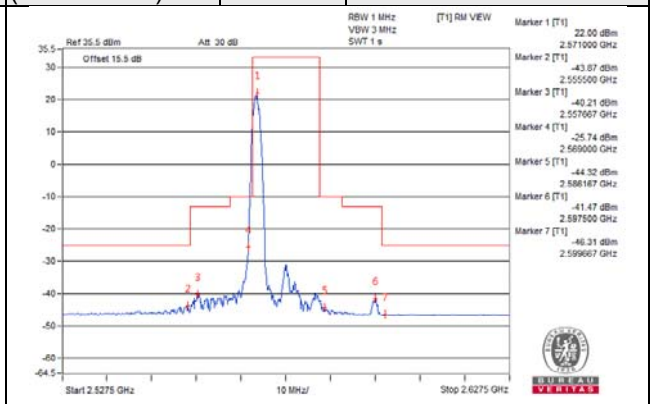


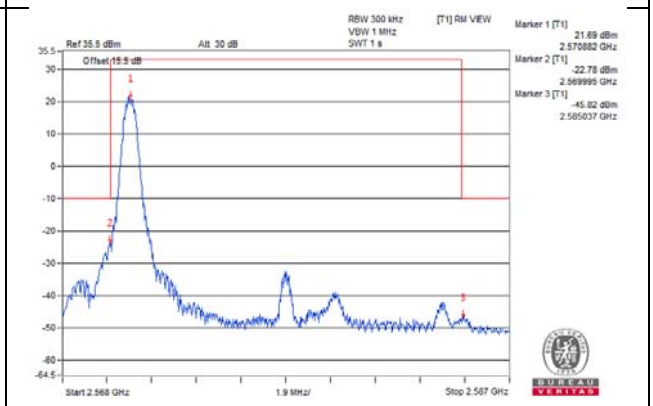


Channel Bandwidth: 15MHz					
Channel 40115 (2542.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 40465 (2577.5MHz)	QPSK	1 RB / 0 RB Offset

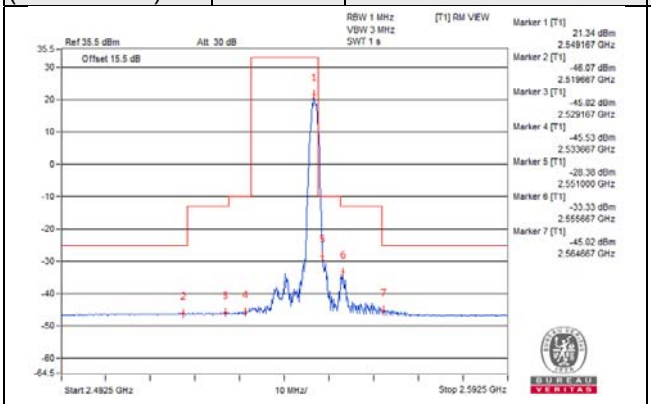


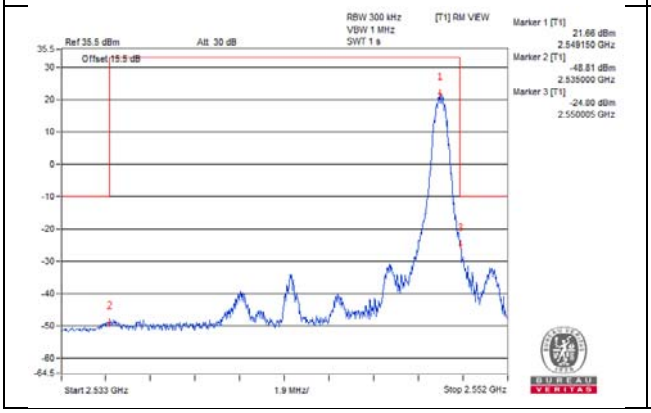


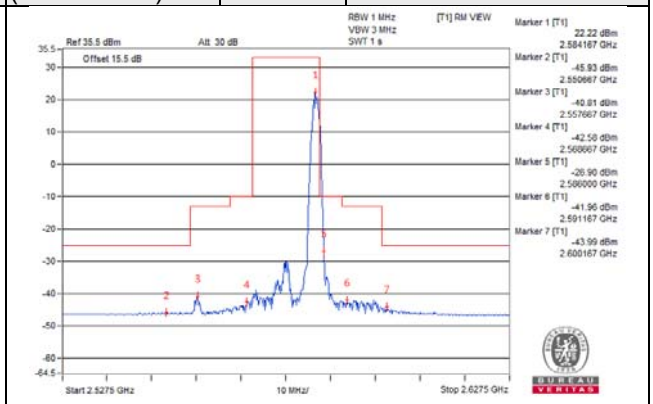


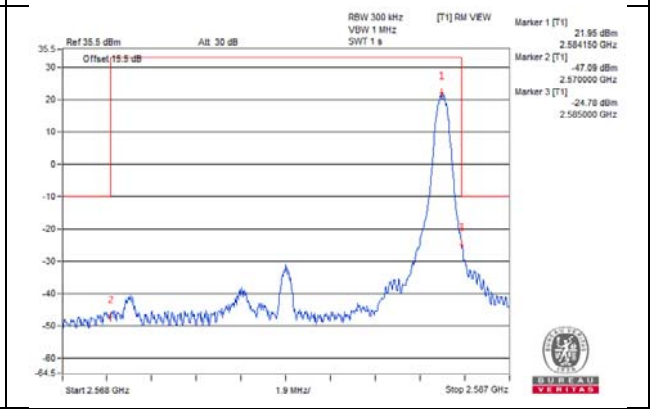


Channel 40115 (2542.5MHz)	QPSK	1 RB / 74 RB Offset	Channel 40465 (2577.5MHz)	QPSK	1 RB / 74 RB Offset

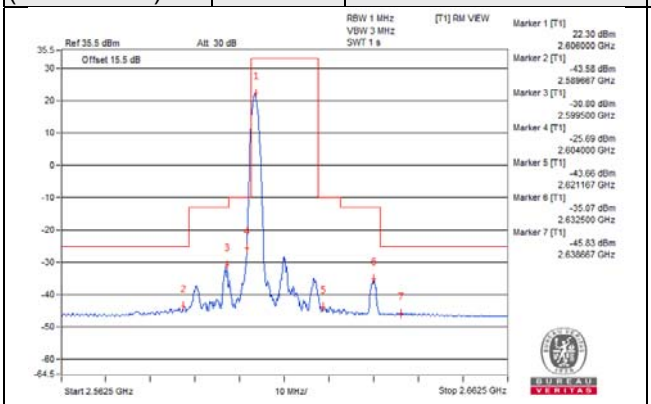


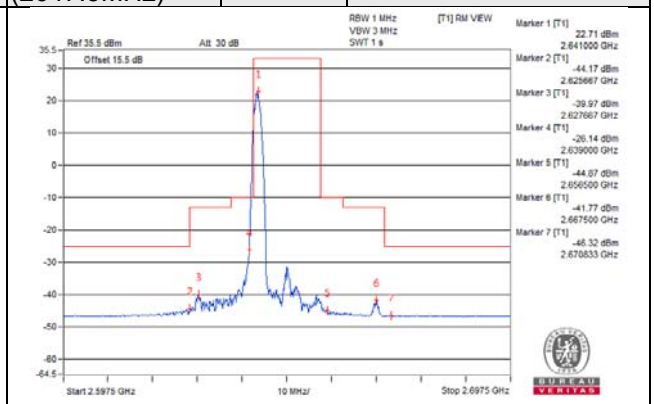


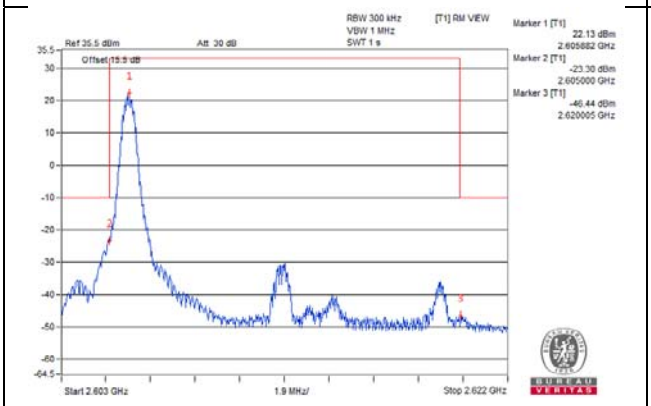


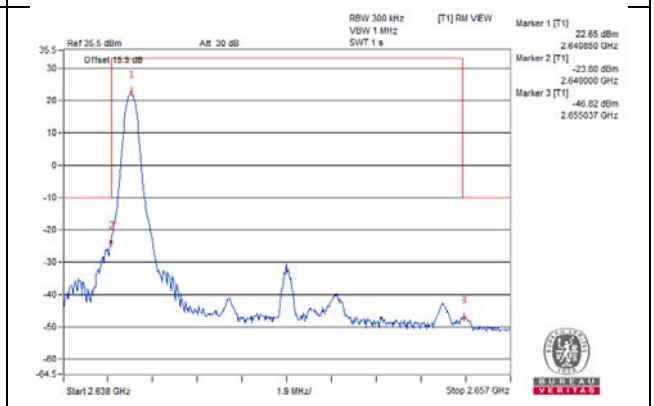


Channel Bandwidth: 15MHz					
Channel 40815 (2612.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 41165 (2647.5MHz)	QPSK	1 RB / 0 RB Offset

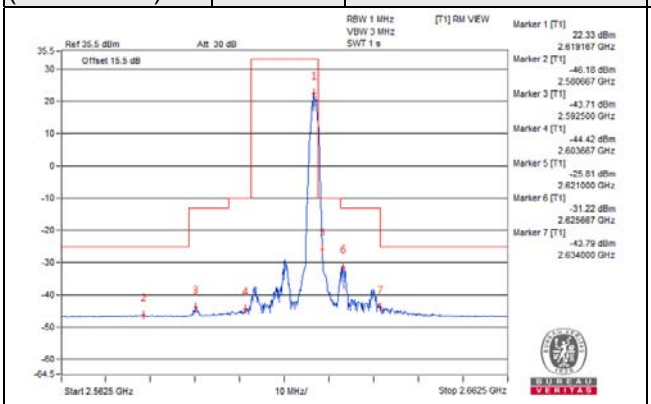


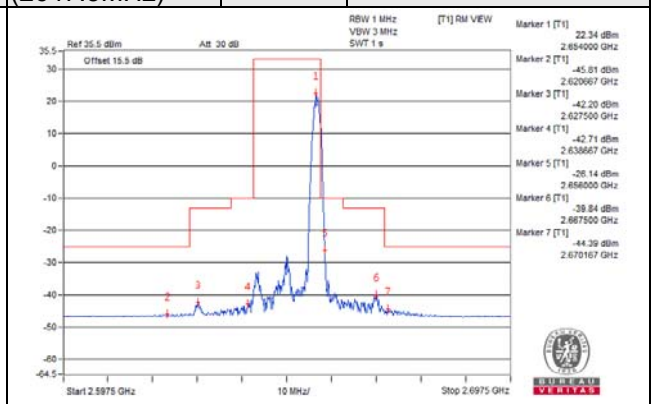


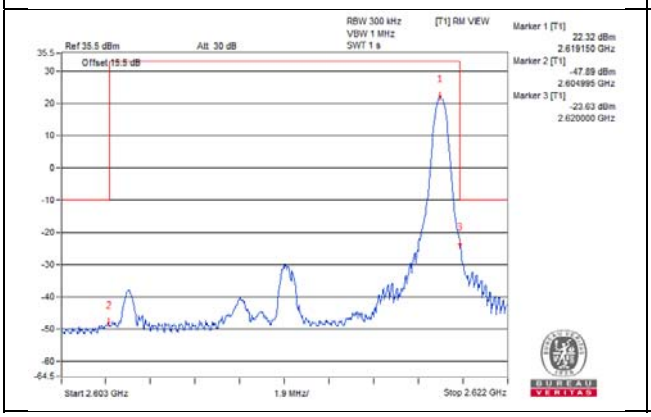


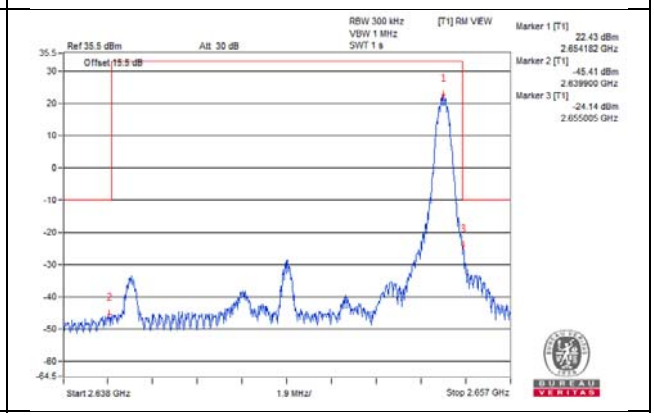


Channel 40815 (2612.5MHz)	QPSK	1 RB / 74 RB Offset	Channel 41165 (2647.5MHz)	QPSK	1 RB / 74 RB Offset

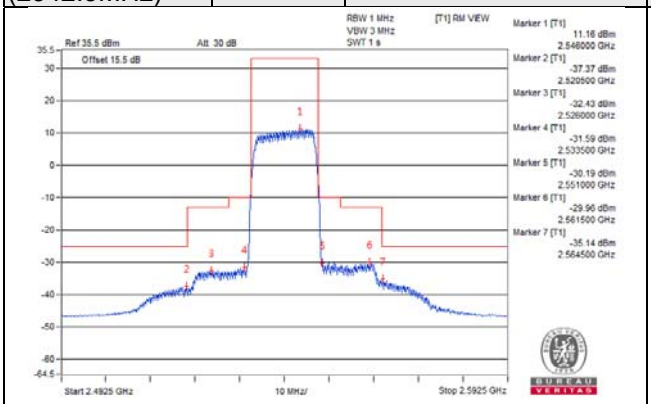


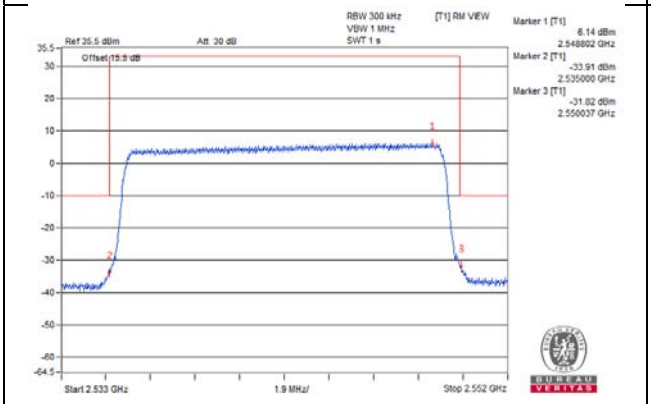


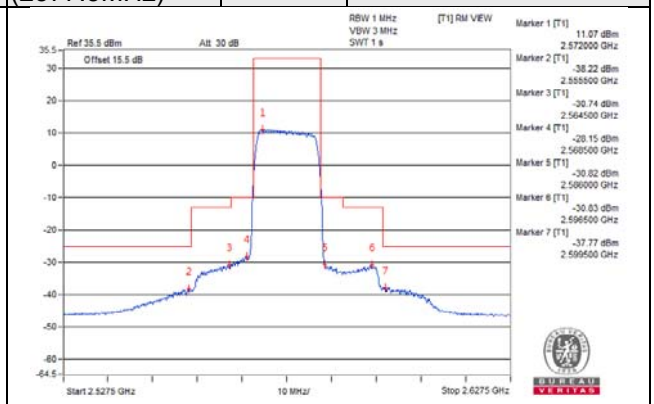


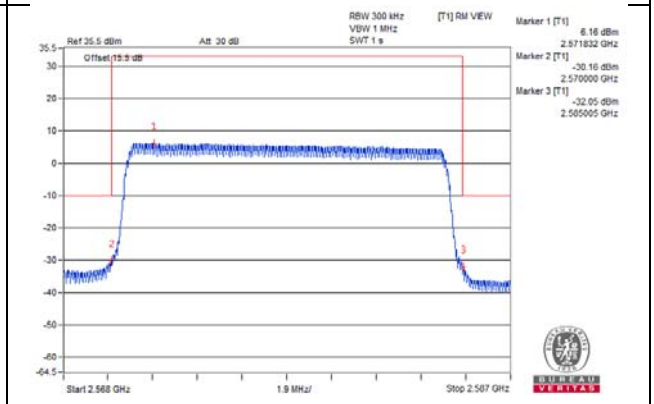


Channel Bandwidth: 15MHz					
Channel 40115 (2542.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 40465 (2577.5MHz)	QPSK	75 RB / 0 RB Offset

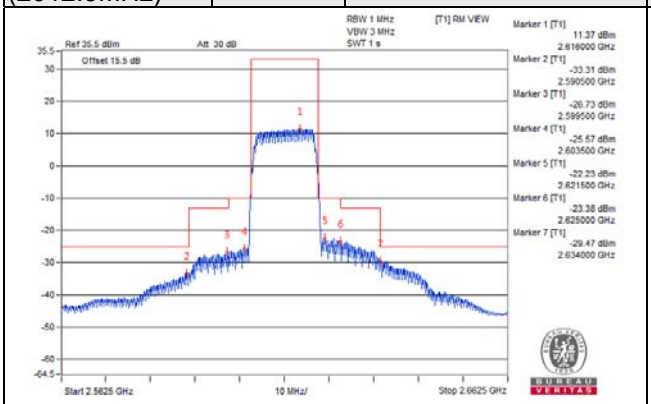


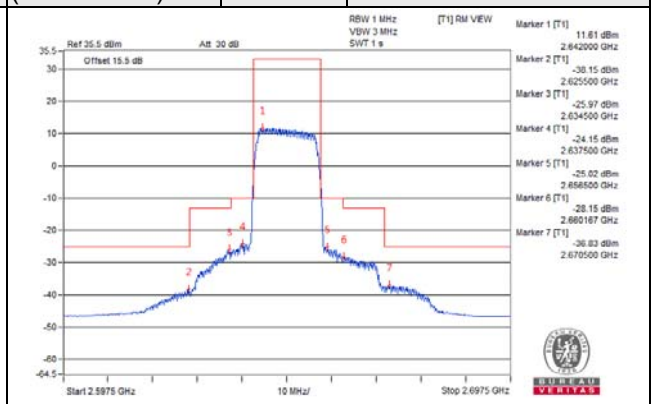


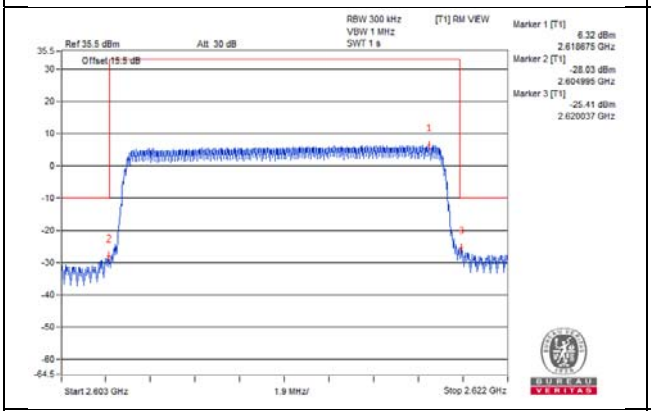


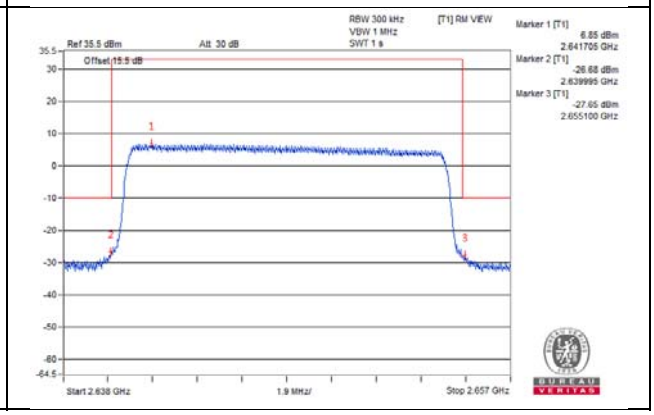


Channel 40815 (2612.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 41165 (2647.5MHz)	QPSK	75 RB / 0 RB Offset

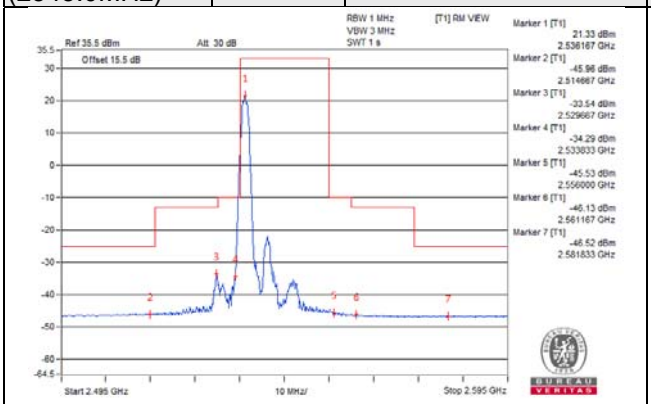


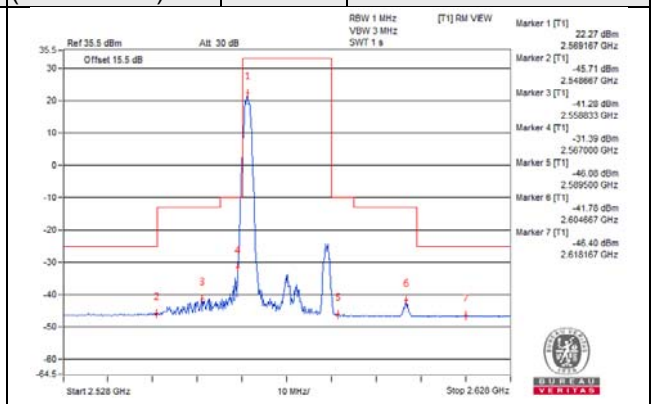


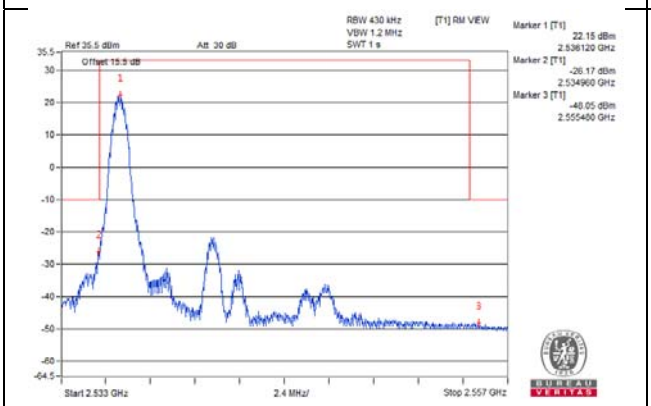


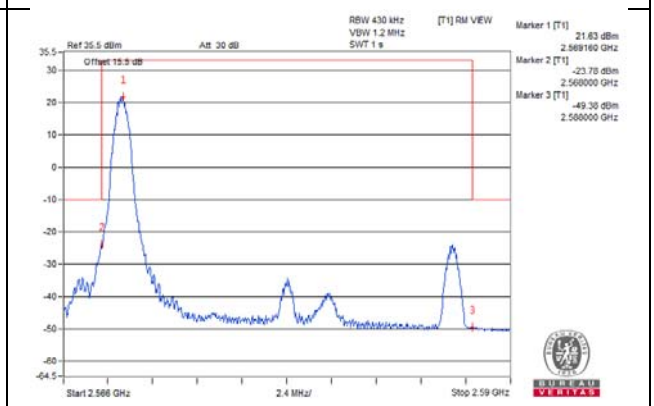


Channel Bandwidth: 20MHz					
Channel 40140 (2545.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 40470 (2578.0MHz)	QPSK	1 RB / 0 RB Offset

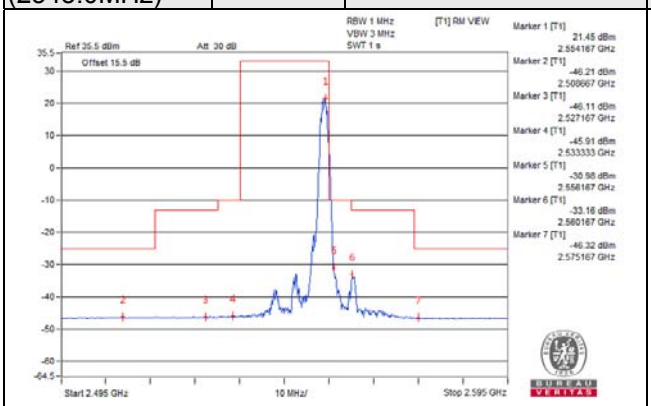


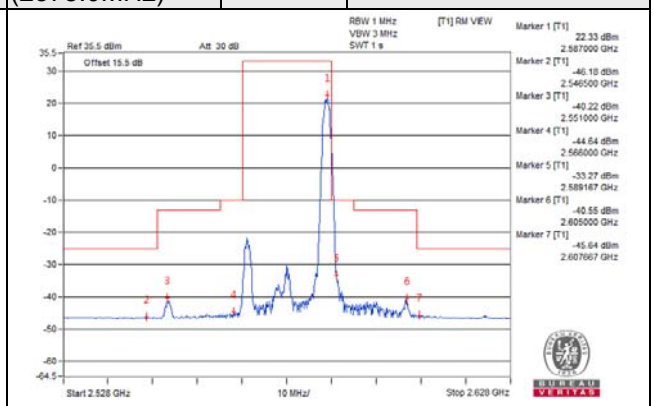


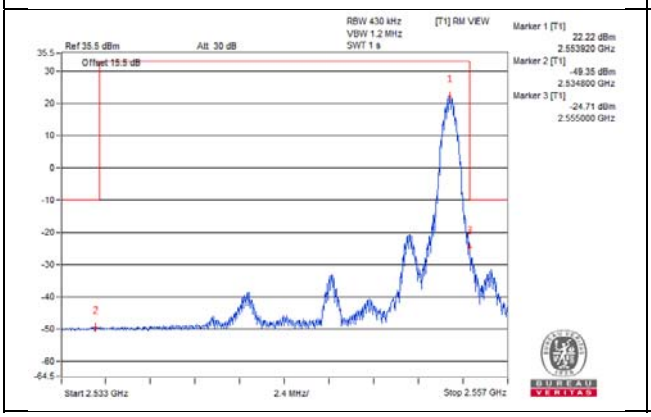


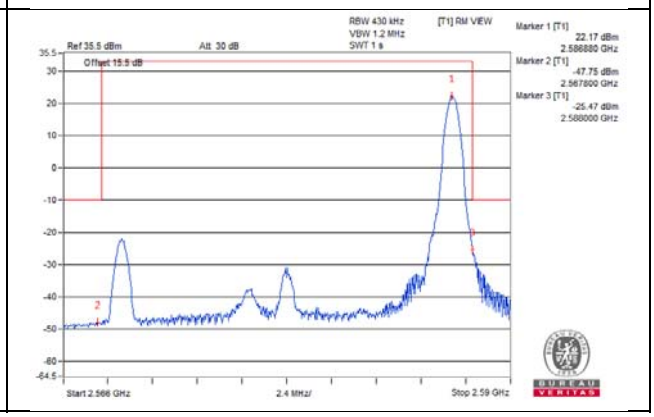


Channel 40140 (2545.0MHz)	QPSK	1 RB / 99 RB Offset	Channel 40470 (2578.0MHz)	QPSK	1 RB / 99 RB Offset

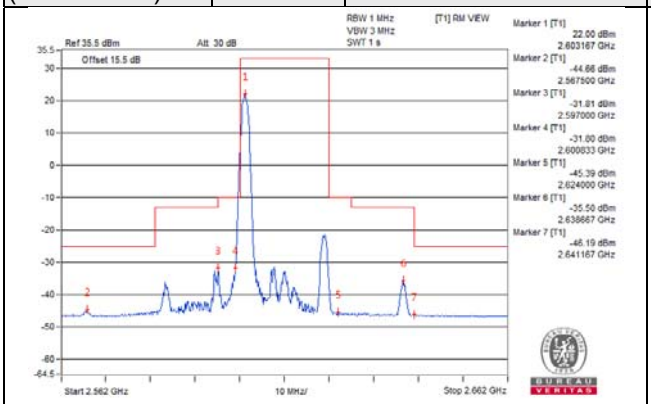


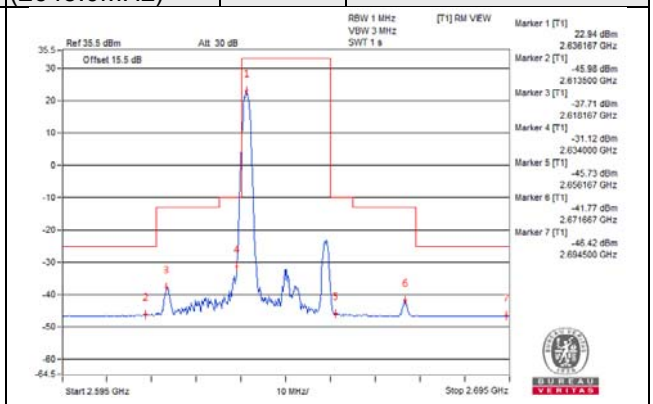


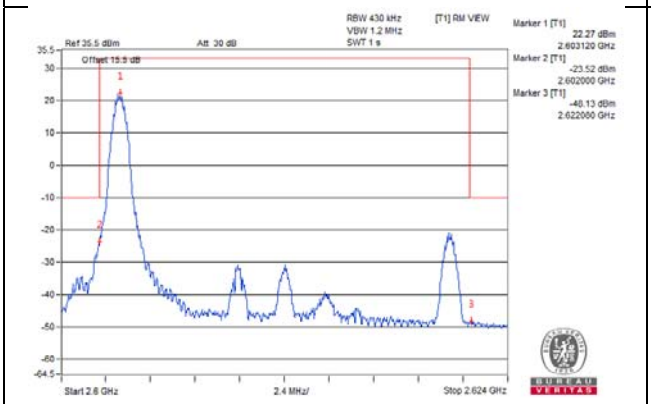


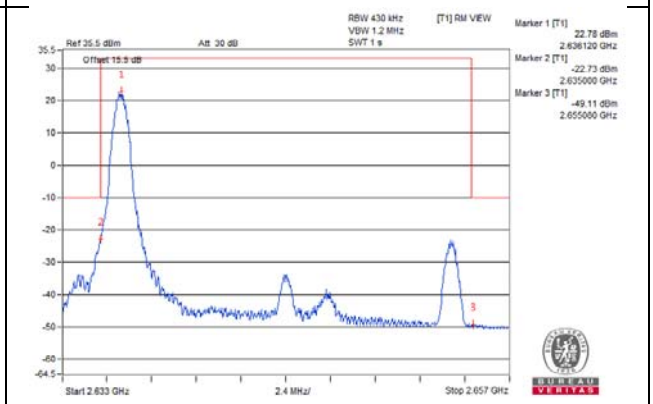


Channel Bandwidth: 20MHz					
Channel 40810 (2612.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 41140 (2645.0MHz)	QPSK	1 RB / 0 RB Offset

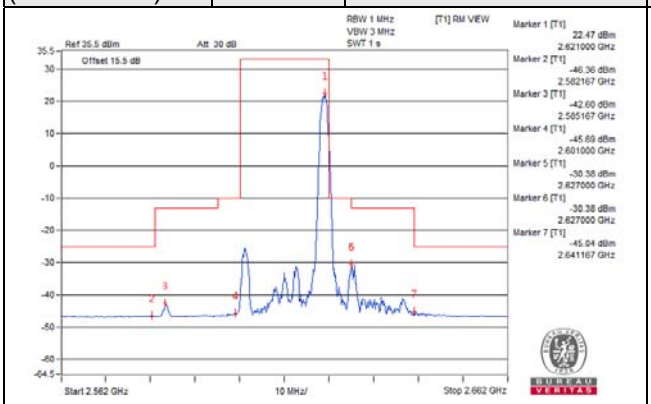


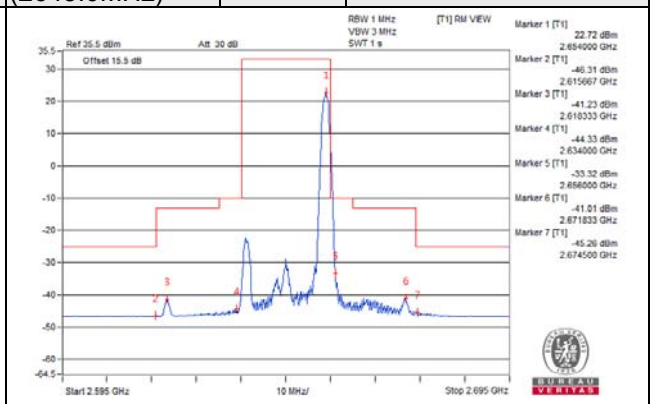


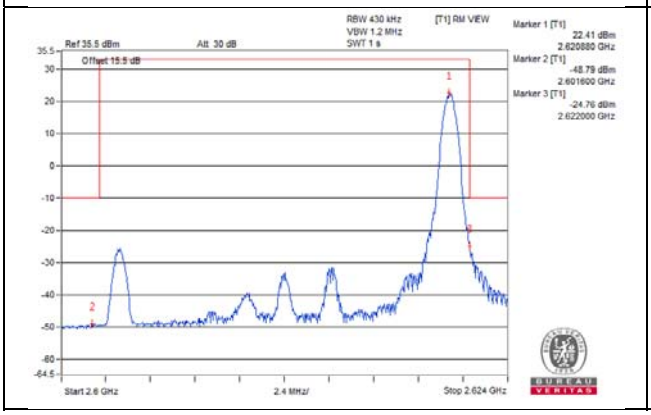


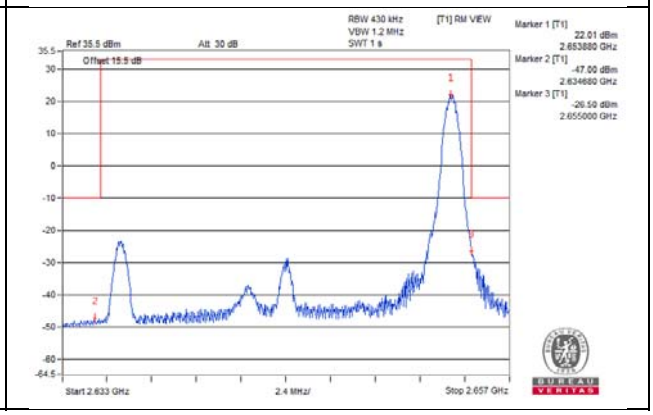


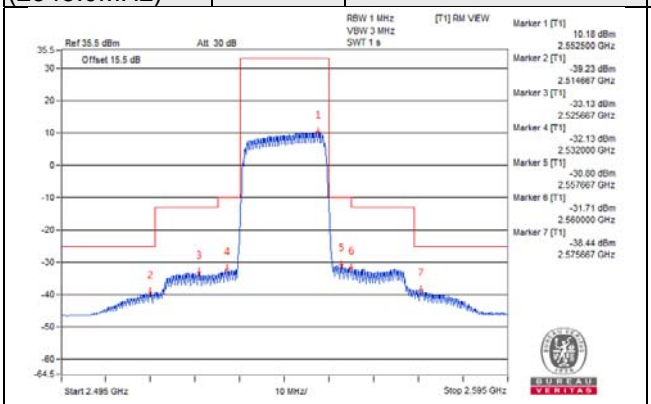
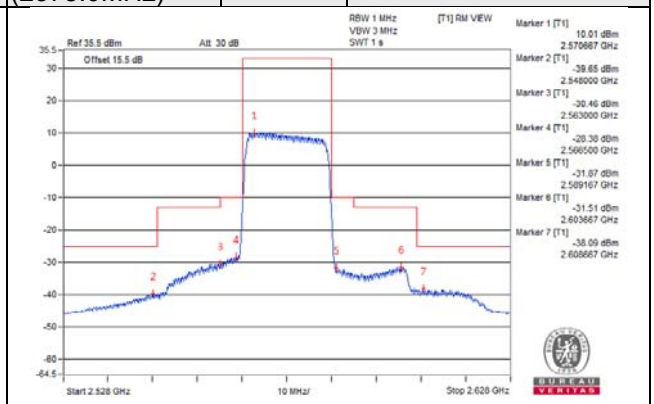
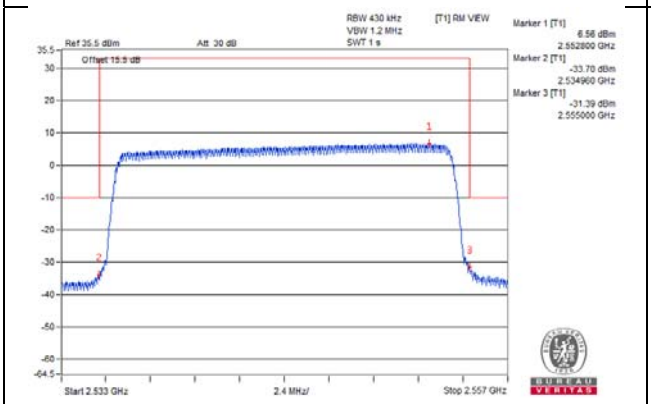
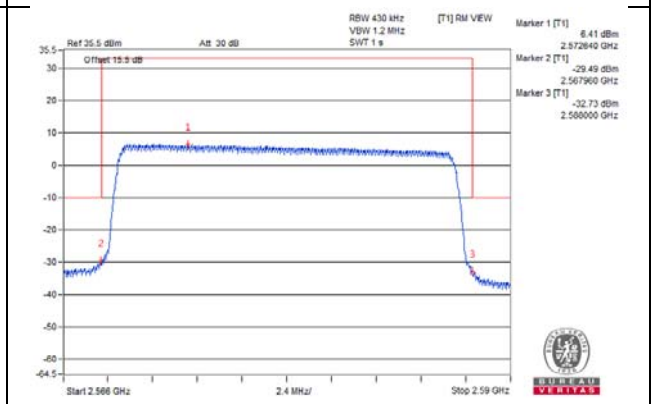
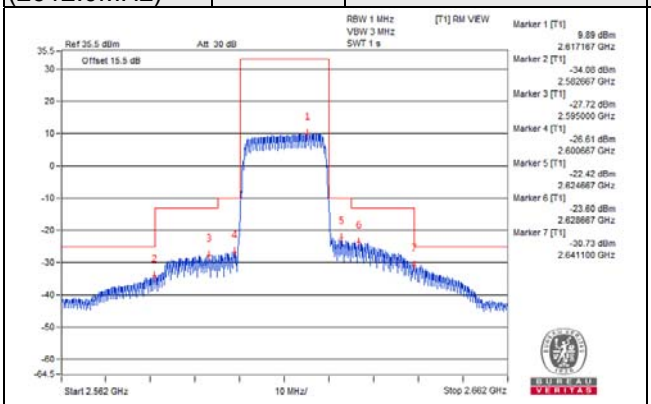
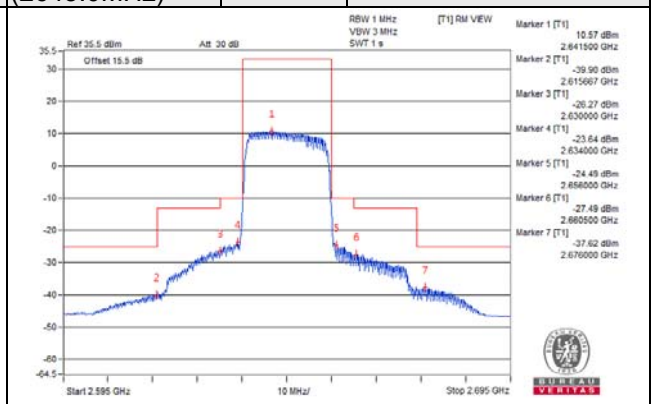
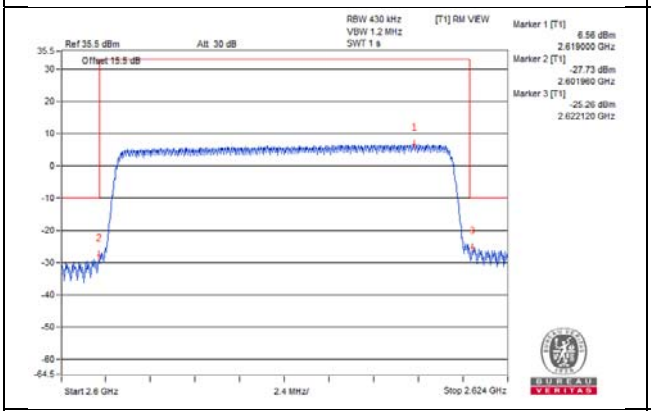
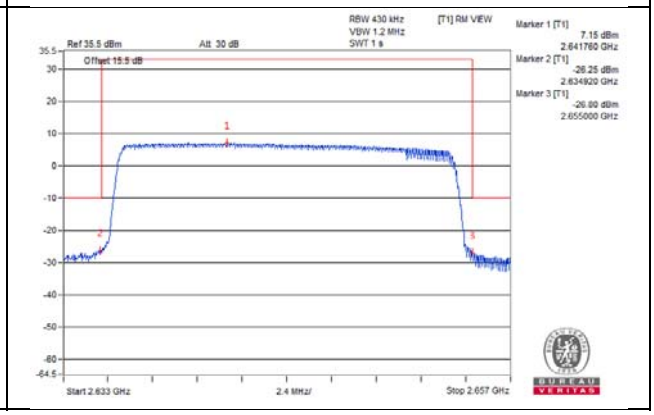
Channel 40810 (2612.0MHz)	QPSK	1 RB / 99 RB Offset	Channel 41140 (2645.0MHz)	QPSK	1 RB / 99 RB Offset









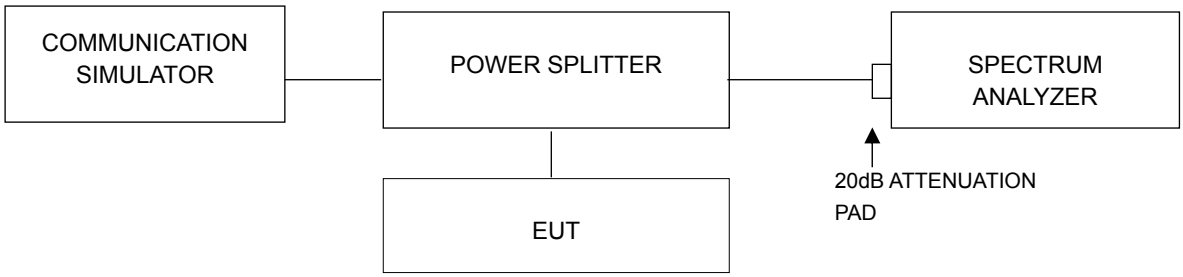
Channel Bandwidth: 20MHz					
Channel 40140 (2545.0MHz)	QPSK	100 RB / 0 RB Offset	Channel 40470 (2578.0MHz)	QPSK	100 RB / 0 RB Offset
					
					
Channel 40810 (2612.0MHz)	QPSK	100 RB / 0 RB Offset	Channel 41140 (2645.0MHz)	QPSK	100 RB / 0 RB Offset
					
					

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

a. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;

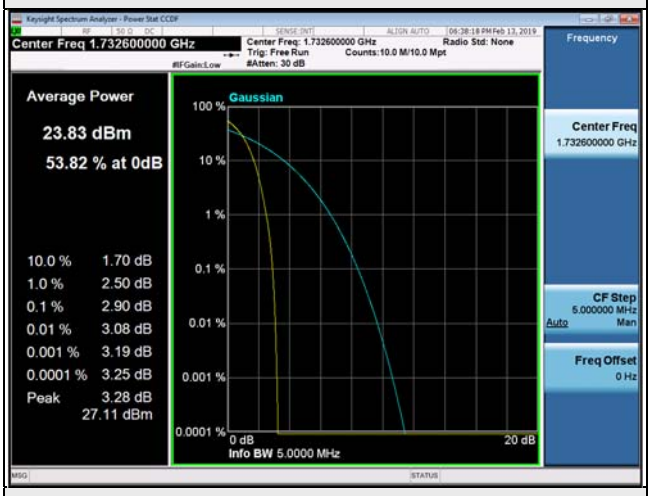
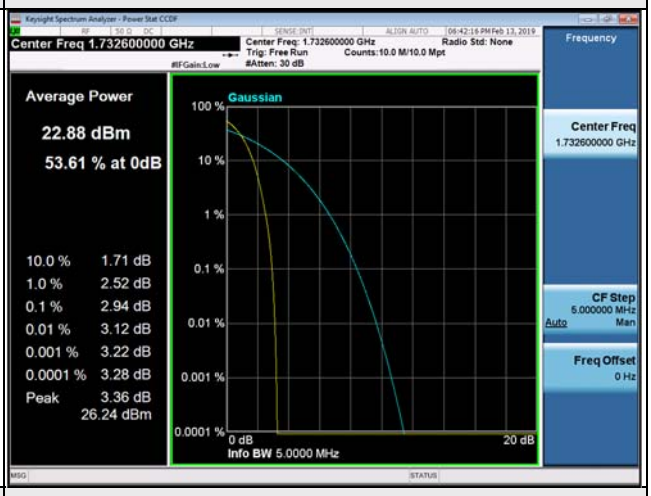
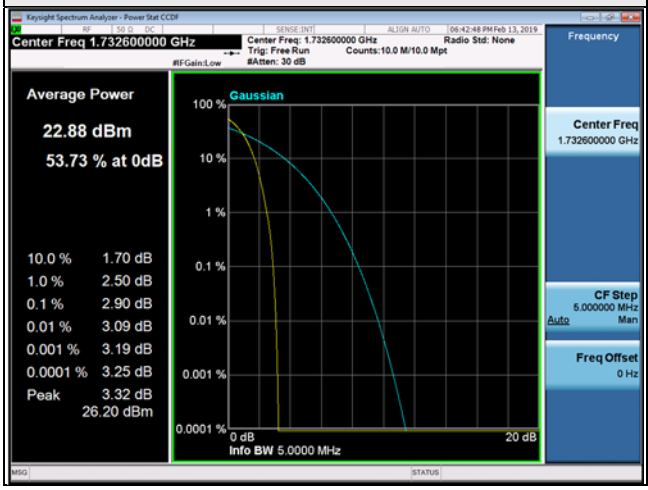
b. Set the number of counts to a value that stabilizes the measured CCDF curve;

c. 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	2.65	2.66	2.67
1413	1732.6	2.90	2.94	2.90
1513	1752.6	2.73	2.73	2.74

Spectrum Plot of Worst Value	
WCDMA	HSDPA
	
HSUPA	
	

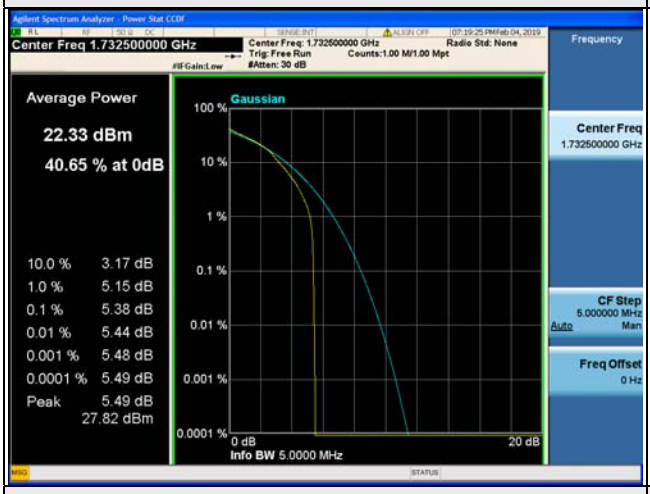
LTE Band 4

LTE Band 4, Channel Bandwidth 1.4MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
19957	1710.7	3.54	4.61	4.66
20175	1732.5	5.14	5.34	5.38
20393	1754.3	3.73	4.95	5.07
LTE Band 4, Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
19965	1711.5	3.37	4.57	4.88
20175	1732.5	3.80	5.31	5.44
20385	1753.5	3.49	4.74	4.81
LTE Band 4, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
19975	1712.5	3.39	4.59	4.62
20175	1732.5	3.82	5.26	5.32
20375	1752.5	3.52	4.83	4.88
LTE Band 4, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
20000	1715.0	3.45	4.60	4.66
20175	1732.5	3.77	5.15	5.17
20350	1750.0	3.53	4.82	4.95
LTE Band 4, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
20025	1717.5	3.33	4.38	4.54
20175	1732.5	3.62	4.97	5.06
20325	1747.5	3.56	4.83	4.86

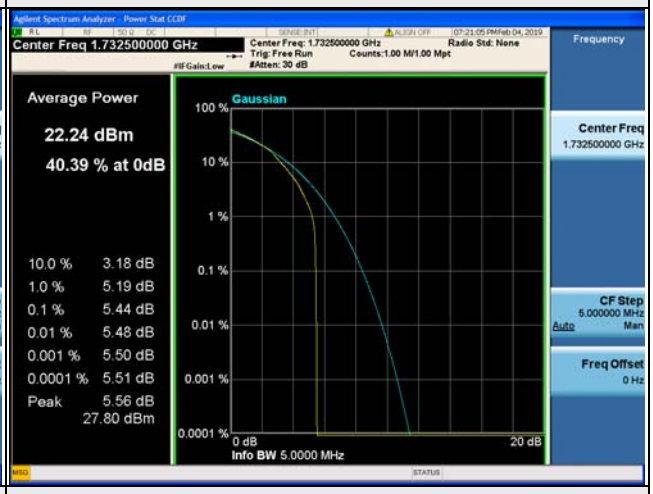
LTE Band 4, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
20050	1720.0	3.30	4.39	4.56
20175	1732.5	3.50	4.83	4.94
20300	1745.0	3.66	5.11	5.22

Spectrum Plot of Worst Value

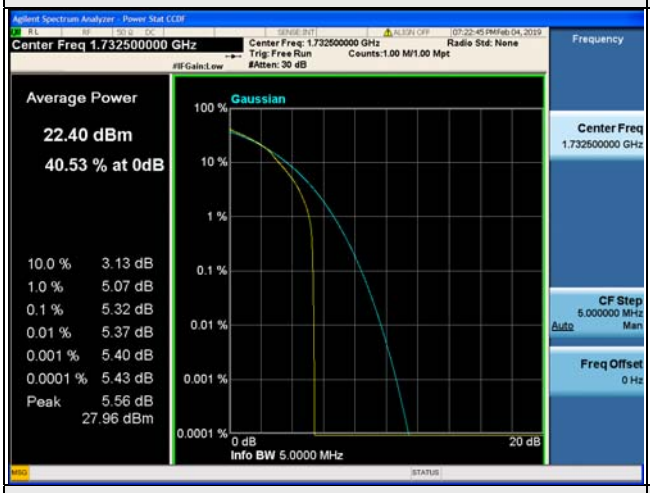
1.4MHz / 64QAM



3MHz / 64QAM



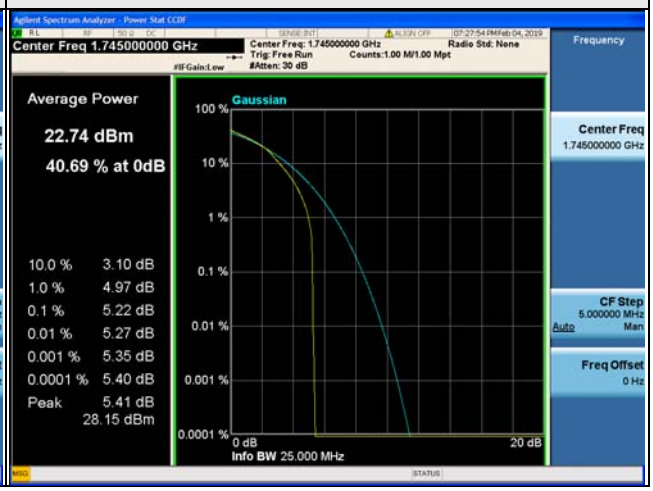
5MHz / 64QAM



10MHz / 64QAM

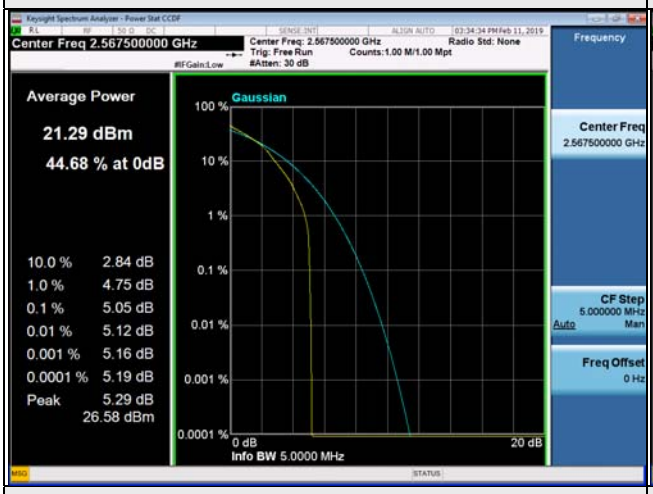
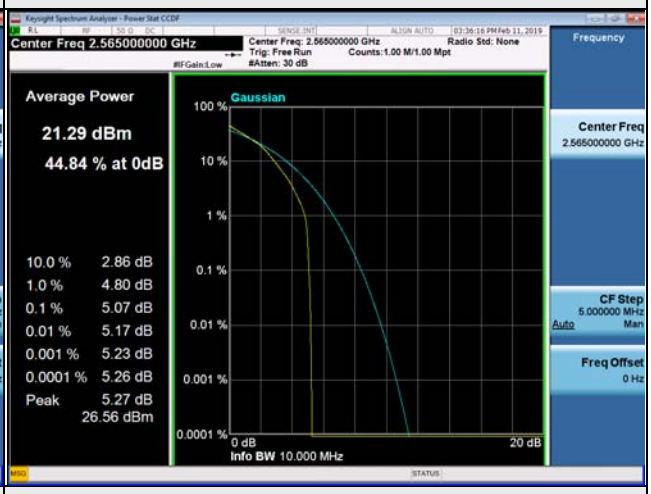
15MHz / 64QAM

20MHz / 64QAM



LTE Band 7

LTE Band 7, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
20775	2502.5	3.04	3.90	3.98
21100	2535.0	3.05	4.95	5.01
21425	2567.5	3.24	4.98	5.05
LTE Band 7, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
20800	2505.0	2.63	3.92	4.02
21100	2535.0	3.42	4.84	4.98
21400	2565.0	3.48	4.85	5.07
LTE Band 7, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
20825	2507.5	2.52	3.81	3.86
21100	2535.0	3.31	4.78	4.86
21375	2562.5	3.40	4.85	4.93
LTE Band 7, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
20850	2510.0	2.56	3.79	3.86
21100	2535.0	3.35	4.76	4.85
21350	2560.0	3.35	4.75	4.80

Spectrum Plot of Worst Value	
5MHz / 64QAM	10MHz / 64QAM
	
15MHz / 64QAM	20MHz / 64QAM