



Test Report No.: PSU-NQN2504150110RF03



Certificate #6613.01

FCC TEST REPORT (PART 27)

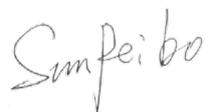
Applicant:	SHARP CORPORATION
Address:	1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

Manufacturer or Supplier:	SHARP CORPORATION
Address:	1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan
Product:	Smart Phone
Brand Name:	SHARP
FCC ID:	APYHRO00336
Date of tests:	Mar. 19, 2025 ~ Apr.28, 2025

The tests have been carried out according to the requirements of the following standard:

- FCC Part 27 ANSI/TIA/EIA-603-D
- FCC Part 2 ANSI/TIA/EIA-603-E ANSI C63.26-2015

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
 Date: Apr.28, 2025	 Date: Apr.28, 2025

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 SUMMARY OF TEST RESULTS	5
1.1 MEASUREMENT UNCERTAINTY	7
1.2 TEST SITE AND INSTRUMENTS	8
2 GENERAL INFORMATION	10
2.1 GENERAL DESCRIPTION OF EUT	10
2.2 CONFIGURATION OF SYSTEM UNDER TEST	15
2.3 DESCRIPTION OF SUPPORT UNITS	16
2.4 TEST ITEM AND TEST CONFIGURATION	16
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	21
3 TEST TYPES AND RESULTS	22
3.1 OUTPUT POWER MEASUREMENT	22
3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	22
3.1.2 TEST PROCEDURES	22
3.1.3 TEST SETUP	23
3.1.4 TEST RESULTS	24
3.2 FREQUENCY STABILITY MEASUREMENT	67
3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	67
3.2.2 TEST PROCEDURE	67
3.2.3 TEST SETUP	67
3.2.4 TEST RESULTS	67
3.3 OCCUPIED BANDWIDTH MEASUREMENT	68
3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	68
3.3.2 TEST SETUP	68
3.3.3 TEST PROCEDURES	68
3.3.4 TEST RESULTS	68
3.4 BAND EDGE MEASUREMENT	69
3.4.1 LIMITS OF BAND EDGE MEASUREMENT	69
3.4.2 TEST SETUP	70
3.4.3 TEST PROCEDURES	71
3.4.4 TEST RESULTS	71
3.5 CONDUCTED SPURIOUS EMISSIONS	72
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	72
3.5.2 TEST PROCEDURE	72
3.5.3 TEST SETUP	72
3.5.4 TEST RESULTS	72
3.6 RADIATED EMISSION MEASUREMENT	73
3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT	73
3.6.2 TEST PROCEDURES	73
3.6.3 DEVIATION FROM TEST STANDARD	73
3.6.4 TEST SETUP	74
3.6.5 TEST RESULTS	76
3.7 PEAK TO AVERAGE RATIO	78
3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	78
3.7.2 TEST SETUP	78
3.7.3 TEST PROCEDURES	78
3.7.4 TEST RESULTS	78
4 INFORMATION ON THE TESTING LABORATORIES	79
5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB... 79	79



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

6 APPENDIX	80
WCDMA IV	80
LTE BAND 4	112
LTE BAND38	299
LTE BAND41	447
LTE BAND66	594



Test Report No.: PSU-NQN2504150110RF03

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2504150110RF03	Original release	Apr.28, 2025

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 27 & PART 2			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
§2.1046	Conducted Output Power	Compliance	A
§27.50(d)(4) §27.50(h)(2) §27.50(k)(3)	Equivalent Isotropically Radiated Power (WCMDA Band 4) (Band 4) (Band 38) (Band 41) (Band 66)	Compliance	A
§2.1055 §27.54	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§2.1051 §27.53(h) §27.53(m)(4)(6) §27.53(n)(2)	Conducted Band Edge Measurements (WCMDA Band 4) (Band 4) (Band 38) (Band 41) (Band 66)	Compliance	A
§2.1051 §27.53(h) §27.53(m)(4)(6) §27.53(n)(2)	Conducted Spurious Emissions (WCMDA Band 4) (Band 4) (Band 38) (Band 41) (Band 66)	Compliance	A
§2.1053 §27.53(h) §27.53(m)(4)(6) §27.53(n)(2)	Radiated Spurious Emissions (WCMDA Band 4) (Band 4) (Band 38) (Band 41) (Band 66)	Compliance	A
§27.50(k)(4)	Peak to average ratio	Compliance	A



Test Report No.: PSU-NQN2504150110RF03

***Test Lab Information Reference**

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

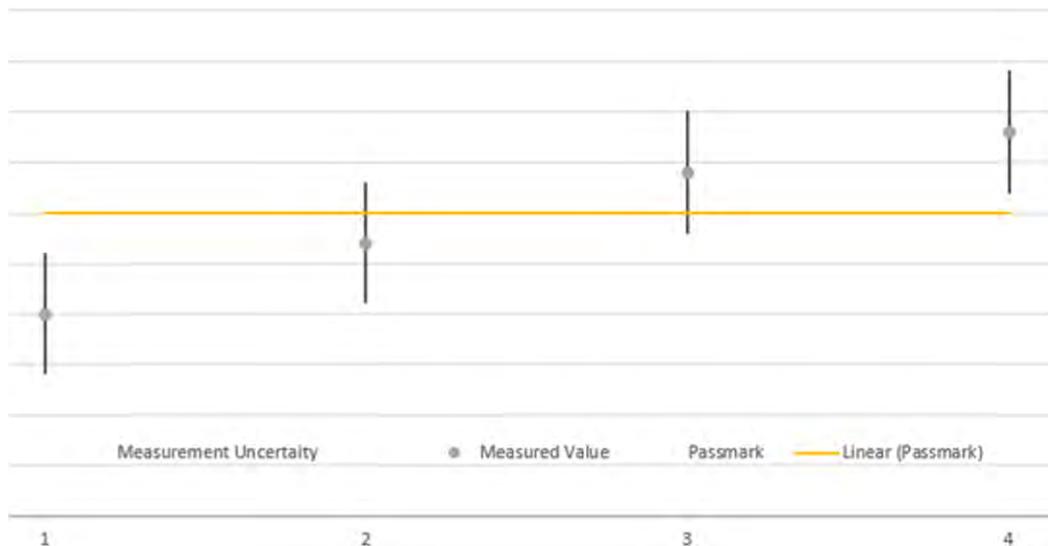
The FCC Site Registration No. is 434559; The Designation No. is CN1325.

1.1 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	UNCERTAINTY
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.



1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,23	Aug.29,25
Pre-Amplifier	R&S	SCU08F1	101028	Jan.22,24	Jan.21,26
Vector Signal Generator	R&S	SMBV100B	102176	Mar.29,24	Mar.28,26
Signal Generator	R&S	SMB100A	182185	Mar.29,24	Mar.28,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Mar.28,24	Mar.27,26
EMI TEST Receiver	R&S	ESW44	101973	Mar.28,24	Mar.27,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Dec.26,23	Dec.25,25
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,23	Aug.21,25
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Jul.15,24	Jul.14,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,23	Aug.21,25
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,25	Feb.22,27
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,23	Aug.30,25
Hygrothermograph	DELI	20210528	SZ014	Sep.06,23	Sep.05,25
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.27,25	Apr.26,26
CABLE	R&S	W12.14	N/A	Apr.27,25	Apr.26,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.27,25	Apr.26,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.27,25	Apr.26,26
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26



Test Report No.: PSU-NQN2504150110RF03

- NOTE:**
1. The calibration interval of the above test instruments is 12 / 24/ 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	Smart Phone	
BRAND NAME*	SHARP	
NOMINAL VOLTAGE*	4.0Vdc(adapter or host equipment) 3.89Vdc (Li-ion, battery)	
MODULATION TECHNOLOGY*	WCDMA	HSDPA 、HSUPA 、HSPA+
	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	WCDMA IV	1712.4MHz ~ 1752.6MHz
	LTE Band 4 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1754.3MHz
	LTE Band 4 Channel Bandwidth: 3MHz	1711.5MHz ~ 1753.5MHz
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~ 1752.5MHz
	LTE Band 4 Channel Bandwidth: 10MHz	1715MHz ~ 1750MHz
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~ 1747.5 MHz
	LTE Band 4 Channel Bandwidth: 20MHz	1720MHz ~ 1745MHz
	LTE Band 38 Channel Bandwidth: 5MHz	2572.5MHz ~ 2617.5MHz
	LTE Band 38 Channel Bandwidth: 10MHz	2575MHz ~ 2615MHz
	LTE Band 38 Channel Bandwidth: 15MHz	2577.5MHz ~ 2612.5MHz
	LTE Band 38 Channel Bandwidth: 20MHz	2580MHz ~ 2610MHz
	LTE Band 41 Channel Bandwidth: 5MHz	2498.5MHz ~ 2687.5MHz
	LTE Band 41 Channel Bandwidth: 10MHz	2501MHz ~ 2685MHz
	LTE Band 41 Channel Bandwidth: 15MHz	2503.5MHz ~ 2682.5MHz
	LTE Band 41 Channel Bandwidth: 20MHz	2506MHz ~ 2680MHz
	LTE Band 66 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1779.3MHz
	LTE Band 66 Channel Bandwidth: 3MHz	1711.5MHz ~ 1778.5MHz
	LTE Band 66 Channel Bandwidth: 5MHz	1712.5MHz ~ 1777.5MHz



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

	LTE Band 66 Channel Bandwidth: 10MHz	1715MHz ~ 1775MHz
	LTE Band 66 Channel Bandwidth: 15MHz	1717.5MHz ~ 1772.5MHz
	LTE Band 66 Channel Bandwidth: 20MHz	1720MHz ~ 1770MHz
MAX. EIRP POWER	WCDMA IV	94mW
	LTE Band 4 Channel Bandwidth: 1.4MHz	95mW
	LTE Band 4 Channel Bandwidth: 3MHz	104mW
	LTE Band 4 Channel Bandwidth: 5MHz	95mW
	LTE Band 4 Channel Bandwidth: 10MHz	96mW
	LTE Band 4 Channel Bandwidth: 15MHz	96mW
	LTE Band 4 Channel Bandwidth: 20MHz	92mW
	LTE Band 38 Channel Bandwidth: 5MHz	121mW
	LTE Band 38 Channel Bandwidth: 10MHz	112mW
	LTE Band 38 Channel Bandwidth: 15MHz	113mW
	LTE Band 38 Channel Bandwidth: 20MHz	116mW
	LTE Band 41 Channel Bandwidth: 5MHz	153mW
	LTE Band 41 Channel Bandwidth: 10MHz	150mW
	LTE Band 41 Channel Bandwidth: 15MHz	150mW
	LTE Band 41 Channel Bandwidth: 20MHz	151mW
	LTE Band 66 Channel Bandwidth: 1.4MHz	94mW
	LTE Band 66 Channel Bandwidth: 3MHz	95mW
	LTE Band 66 Channel Bandwidth: 5MHz	102mW
	LTE Band 66 Channel Bandwidth: 10MHz	95mW
	LTE Band 66 Channel Bandwidth: 15MHz	96mW



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

MAX. EIRP POWER	LTE Band 66 Channel Bandwidth: 20MHz	93mW
	WCDMA IV	4M17F9W
EMISSION DESIGNATOR	LTE Band 4 Channel Bandwidth: 1.4MHz	QPSK:1M11G7D
		16QAM:1M12W7D
		64QAM:1M12W7D
	LTE Band 4 Channel Bandwidth: 3MHz	QPSK:2M75G7D
		16QAM:2M75W7D
		64QAM:2M75W7D
	LTE Band 4 Channel Bandwidth: 5MHz	QPSK:4M53G7D
		16QAM:4M53W7D
		64QAM:4M53W7D
	LTE Band 4 Channel Bandwidth: 10MHz	QPSK:9M03G7D
		16QAM:9M04W7D
		64QAM:9M04W7D
	LTE Band 4 Channel Bandwidth: 15MHz	QPSK:13M6G7D
		16QAM:13M5W7D
		64QAM:13M5W7D
	LTE Band 4 Channel Bandwidth: 20MHz	QPSK:18M1G7D
		16QAM:18M1W7D
		64QAM:18M1W7D
	LTE Band 38 Channel Bandwidth: 5MHz	QPSK:4M53G7D
		16QAM:4M53W7D
		64QAM:4M53W7D
	LTE Band 38 Channel Bandwidth: 10MHz	QPSK:9M02G7D
		16QAM:9M03W7D
		64QAM:9M03W7D
LTE Band 38 Channel Bandwidth: 15MHz	QPSK:13M5G7D	
	16QAM:13M5W7D	
	64QAM:13M5W7D	



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

EMISSION DESIGNATOR	LTE Band 38 Channel Bandwidth: 20MHz	QPSK:18M1G7D
		16QAM:18M1W7D
		64QAM:18M1W7D
	LTE Band 41 Channel Bandwidth: 5MHz	QPSK:4M53G7D
		16QAM:4M53W7D
		64QAM:4M53W7D
	LTE Band 41 Channel Bandwidth: 10MHz	QPSK:9M01G7D
		16QAM:9M02W7D
		64QAM:9M02W7D
	LTE Band 41 Channel Bandwidth: 15MHz	QPSK:13M5G7D
		16QAM:13M5W7D
		64QAM:13M5W7D
	LTE Band 41 Channel Bandwidth: 20MHz	QPSK:18M1G7D
		16QAM:18M1W7D
		64QAM:18M1W7D
	LTE Band 66 Channel Bandwidth: 1.4MHz	QPSK:1M11G7D
		16QAM:1M12W7D
		64QAM:1M12W7D
	LTE Band 66 Channel Bandwidth: 3MHz	QPSK:2M75G7D
		16QAM:2M76W7D
		64QAM:2M76W7D
	LTE Band 66 Channel Bandwidth: 5MHz	QPSK:4M53G7D
		16QAM:4M53W7D
		64QAM:4M53W7D
LTE Band 66 Channel Bandwidth: 10MHz	QPSK:9M03G7D	
	16QAM:9M04W7D	
	64QAM:9M04W7D	
LTE Band 66 Channel Bandwidth: 15MHz	QPSK:13M5G7D	
	16QAM:13M5W7D	
	64QAM:13M5W7D	
LTE Band 66 Channel Bandwidth: 20MHz	QPSK:18M0G7D	
	16QAM:18M1W7D	



BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF03

EMISSION DESIGNATOR		64QAM:18M1W7D
ANTENNA TYPE*	PIFA Antenna with -2.5dBi gain for WCDMA IV/ LTE B4 PIFA Antenna with -2.2dBi gain for LTE B38 PIFA Antenna with -1.7dBi gain for LTE B41 PIFA Antenna with -2.5dBi gain for LTE B66	
HW VERSION*	DVT	
SW VERSION*	A2270	
I/O PORTS*	Refer to user's manual	
EXTREME TEMPERATURE*	5~35°C	
EXTREME VOLTAGE*	3.7V~4V	

NOTE:

- *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

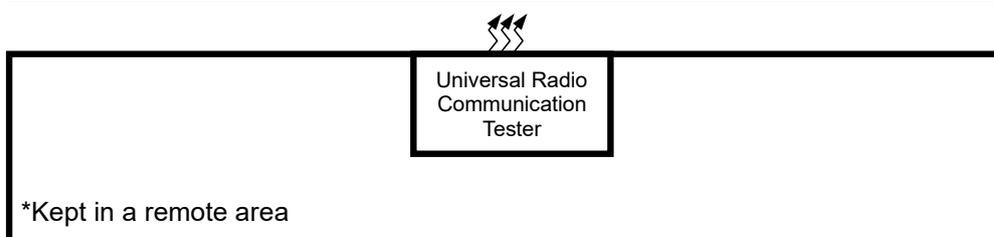
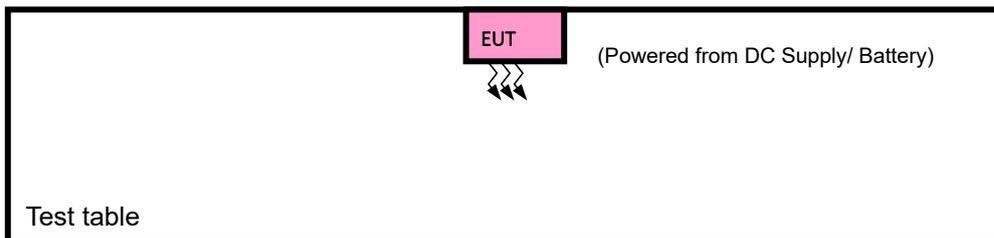
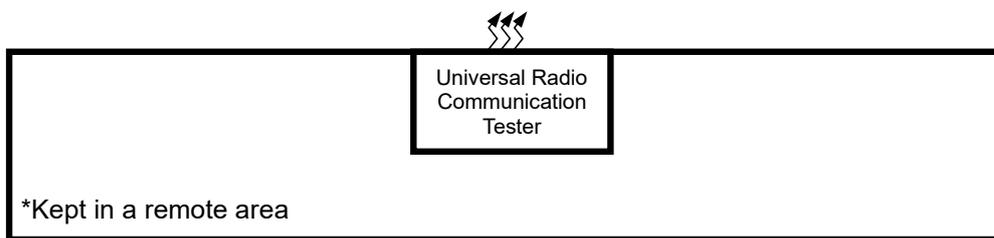
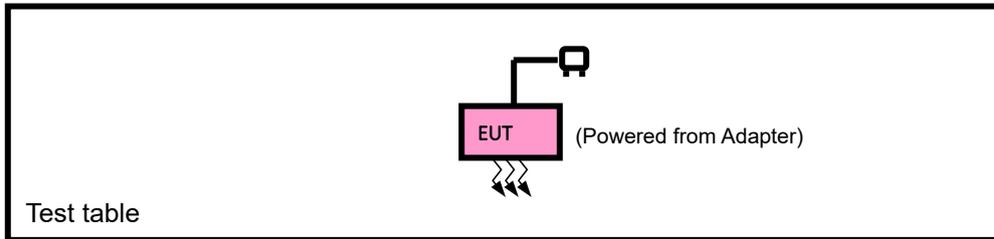
MODULATION MODE	TX FUNCTION
GSM/GPRS/EDGE	1TX/1RX
WCDMA	1TX/2RX
LTE B4/66	1TX/2RX
LTE B38/41	1TX/4RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.
- List of Accessory:

Battery Information	Battery Type	Li-Lon
	Manufacturer	Ningde Amperex Technology Limited
	Model Number	UBATIA319AFN2
	Capacity	4880 mAh
	Nominal Voltage	3.89V

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



2.3 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC Source	HYELEC	HY3010B	551016	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.8m

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane for EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter + USB Cable with WCDMA or LTE link
B	EUT + DC Supply with WCDMA or LTE link

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
B	FREQUENCY STABILITY	1312 to 1513	1312, 1413, 1513	WCDMA
A	OCCUPIED BANDWIDTH	1312 to 1513	1312, 1413, 1513	WCDMA
A	BAND EDGE	1312 to 1513	1312, 1513	WCDMA
A	PEAK TO AVERAGE RATIO	1312 to 1513	1312, 1413, 1513	WCDMA
A	CONDUCTED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA
A	RADIATED EMISSION	1312 to 1513	1312, 1413, 1513	WCDMA

LTE BAND 4 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION
A	EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM
B	FREQUENCY STABILITY	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM
A	OCCUPIED BANDWIDTH	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM
A	PEAK TO AVERAGE RATIO	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM
A	BAND EDGE	19957 to 20393	19957, 20393	1.4MHz	QPSK, 16QAM, 64QAM
		19965 to 20385	19965, 20385	3MHz	QPSK, 16QAM, 64QAM
		19975 to 20375	19975, 20375	5MHz	QPSK, 16QAM, 64QAM
		20000 to 20350	20000, 20350	10MHz	QPSK, 16QAM, 64QAM
		20025 to 20325	20025, 20325	15MHz	QPSK, 16QAM, 64QAM
		20050 to 20300	20050, 20300	20MHz	QPSK, 16QAM, 64QAM
A	CONDUCTED EMISSION	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM
A	RADIATED EMISSION	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK

Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE BAND 38 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION
A	EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM
		37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM
		37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM
		37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM
B	FREQUENCY STABILITY	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM
		37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM
		37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM
		37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM
A	OCCUPIED BANDWIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM
		37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM
		37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM
		37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM
A	PEAK TO AVERAGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM
		37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM
		37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM
		37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM
A	BAND EDGE	37775 to 38225	37775, 38225	5MHz	QPSK, 16QAM, 64QAM
		37800 to 38200	37800, 38200	10MHz	QPSK, 16QAM, 64QAM
		37825 to 38175	37825, 38175	15MHz	QPSK, 16QAM, 64QAM
		37850 to 38150	37850, 38150	20MHz	QPSK, 16QAM, 64QAM
A	CONDUCTED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM
		37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM
		37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM
		37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM
A	RADIATED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK
		37800 to 38200	37800, 38000, 38200	10MHz	QPSK
		37825 to 38175	37825, 38000, 38175	15MHz	QPSK
		37850 to 38150	37850, 38000, 38150	20MHz	QPSK



Note: 1.This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE BAND 41 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION
A	EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM
		39700 to 41540	39700, 40620,41540	10MHz	QPSK, 16QAM, 64QAM
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM
B	FREQUENCY STABILITY	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM
		39700 to 41540	39700, 40620,41540	10MHz	QPSK, 16QAM, 64QAM
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM
A	OCCUPIED BANDWIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM
		39700 to 41540	39700, 40620,41540	10MHz	QPSK, 16QAM, 64QAM
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM
A	PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM
		39700 to 41540	39700, 40620,41540	10MHz	QPSK, 16QAM, 64QAM
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM
A	BAND EDGE	39675 to 41565	39675, 41565	5MHz	QPSK, 16QAM, 64QAM
		39700 to 41540	39700, 41540	10MHz	QPSK, 16QAM, 64QAM
		39725 to 41515	39725, 41515	15MHz	QPSK, 16QAM, 64QAM
		39750 to 41490	39750, 41490	20MHz	QPSK, 16QAM, 64QAM
A	CONDUCTED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM
		39700 to 41540	39700, 40620,41540	10MHz	QPSK, 16QAM, 64QAM
		39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM
		39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM
A	RADIATED EMISSION	39675 to 41565	40620	5MHz	QPSK
		39700 to 41540	40620	10MHz	QPSK
		39725 to 41515	40620	15MHz	QPSK
		39750 to 41490	40620	20MHz	QPSK

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE BAND 66 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION
A	EIRP	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM,64QAM
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM,64QAM
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM
B	FREQUENCY STABILITY	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM,64QAM
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM,64QAM
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM
A	OCCUPIED BANDWIDTH	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM,64QAM
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM,64QAM
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM
A	PEAK TO AVERAGE RATIO	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM,64QAM
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM,64QAM
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM,64QAM
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM,64QAM
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM,64QAM
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM,64QAM
A	BAND EDGE	131979 to 132665	131979, 132665	1.4MHz	QPSK,16QAM,64QAM
		131987 to 132657	131987, 132657	3MHz	QPSK,16QAM,64QAM
		131997 to 132647	131997, 132647	5MHz	QPSK,16QAM,64QAM
		132022 to 132622	132022, 132622	10MHz	QPSK,16QAM,64QAM
		132047 to 132597	132047, 132597	15MHz	QPSK,16QAM,64QAM
		132072 to 132572	132072, 132572	20MHz	QPSK,16QAM,64QAM
A	CONDUCTED EMISSION	131979 to 132665	131979,132322,132665	1.4MHz	QPSK,16QAM, 64QAM
		131987 to 132657	131987,132322,132657	3MHz	QPSK,16QAM, 64QAM
		131997 to 132647	131997,132322,132647	5MHz	QPSK,16QAM, 64QAM
		132022 to 132622	132022,132322,132622	10MHz	QPSK,16QAM, 64QAM
		132047 to 132597	132047,132322,132597	15MHz	QPSK,16QAM, 64QAM
		132072 to 132572	132072,132322,132572	20MHz	QPSK,16QAM, 64QAM
A	RADIATED EMISSION	131979 to 132665	132322	1.4MHz	QPSK
		131987 to 132657	132322	3MHz	QPSK
		131997 to 132647	132322	5MHz	QPSK
		132022 to 132622	132322	10MHz	QPSK
		132047 to 132597	132322	15MHz	QPSK
		132072 to 132572	132322	20MHz	QPSK

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



Test Report No.: PSU-NQN2504150110RF03

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP&EIRP	23deg. C, 70%RH	DC 4V By DC Supply	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.7V/4V/4V By DC Supply	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC4V By DC Supply	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	DC 4V By DC Supply	Hanwen Xu
CONDUCTED EMISSION	23deg. C, 70%RH	DC4V By DC Supply	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	DC4V By DC Supply	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC4V By DC Supply	Hanwen Xu

2.5 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-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

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

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP

According to the specific rule Part 27.50 (k)(3) Mobile devices are limited to 1Watt (30 dBm) EIRP, Mobile devices operating inl these bands must employ a means for limiting power to the minimum necessary for successful communications

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_{T} = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_{C} = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

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



Test Report No.: PSU-NQN2504150110RF03

3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band		WCDMA IV		
Channel		1312	1413	1513
Frequency		1712.4	1732.6	1752.6
Release 99	RMC, 12.2kbps	22.22	22.19	22.11
HSDPA	Subtest1	21.22	21.22	21.13
	Subtest2	21.20	21.16	21.13
	Subtest3	20.71	20.67	20.63
	Subtest4	20.64	20.67	20.60
HSUPA	Subtest1	21.20	21.16	21.10
	Subtest2	19.22	19.17	19.10
	Subtest3	20.23	20.16	20.09
	Subtest4	19.05	19.05	18.92
	Subtest5	21.20	21.17	21.08
HSPA+	QPSK	20.71	20.69	20.65
	16QAM	20.70	20.68	20.61



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

LTE Band 4

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				19957	20175	20393
				1710.7	1732.5	1754.3
4/1.4	QPSK	1	0	22.11	22.17	22.09
		1	3	22.11	22.11	22.00
		1	5	22.05	22.04	22.00
		3	0	22.26	22.25	22.04
		3	1	22.00	22.19	22.03
		3	3	22.13	22.11	22.04
		6	0	21.15	21.14	21.05
	16QAM	1	0	21.43	21.32	21.16
		1	3	21.57	21.48	21.13
		1	5	21.26	21.17	21.30
		3	0	21.19	21.39	21.09
		3	1	21.09	21.16	21.05
		3	3	21.17	21.24	21.04
		6	0	20.02	20.13	20.07
	64QAM	1	0	20.30	20.32	20.61
		1	3	20.75	20.18	20.31
		1	5	20.43	20.42	20.33
		3	0	20.35	20.31	20.12
		3	1	20.19	20.40	20.23
		3	3	20.31	20.29	20.13
		6	0	19.10	19.06	19.09



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				19965	20175	20385
				1711.5	1732.5	1753.5
4/3	QPSK	1	0	22.45	22.28	22.16
		1	8	22.67	22.48	22.14
		1	14	22.41	22.38	22.14
		8	0	21.50	21.44	21.37
		8	4	21.52	21.47	21.33
		8	7	21.51	21.43	21.31
		15	0	21.56	21.43	21.38
	16QAM	1	0	21.61	21.49	21.35
		1	8	21.91	21.51	21.62
		1	14	21.61	21.71	21.37
		8	0	20.53	20.40	20.28
		8	4	20.60	20.38	20.38
		8	7	20.64	20.46	20.35
		15	0	20.48	20.46	20.27
	64QAM	1	0	20.56	20.31	20.71
		1	8	20.65	21.07	20.66
		1	14	20.83	20.40	20.12
		8	0	19.61	19.57	19.35
		8	4	19.65	19.66	19.28
		8	7	19.61	19.44	19.40
		15	0	19.44	19.50	19.31



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				19975	20175	20375
				1712.5	1732.5	1752.5
4/5	QPSK	1	0	22.29	22.16	22.24
		1	12	22.21	22.20	22.11
		1	24	22.18	22.01	21.98
		12	0	21.16	21.15	21.13
		12	7	21.23	21.27	21.13
		12	13	21.14	21.18	21.03
		25	0	21.17	21.12	21.14
	16QAM	1	0	21.17	21.18	21.19
		1	12	21.38	21.23	21.59
		1	24	21.69	21.39	21.11
		12	0	20.17	20.19	20.16
		12	7	20.27	20.28	20.14
		12	13	20.25	20.25	20.10
		25	0	20.14	20.19	20.12
	64QAM	1	0	20.91	20.33	20.31
		1	12	20.57	20.41	20.21
		1	24	20.63	20.63	20.16
		12	0	19.31	19.02	19.03
		12	7	19.26	19.30	19.16
		12	13	19.25	19.10	19.05
		25	0	19.21	19.09	19.10



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				20000	20175	20350
				1715	1732.5	1750
4/10	QPSK	1	0	22.02	22.34	21.96
		1	25	22.17	22.11	21.92
		1	49	22.12	22.07	22.10
		25	0	21.17	21.15	21.10
		25	12	21.20	21.08	21.08
		25	25	21.21	21.18	21.06
		50	0	21.20	21.06	21.05
	16QAM	1	0	21.31	21.32	21.53
		1	25	21.43	21.33	21.27
		1	49	21.05	21.00	21.23
		25	0	20.10	20.21	20.16
		25	12	20.21	20.13	20.16
		25	25	20.30	20.22	20.16
		50	0	20.16	20.13	20.12
	64QAM	1	0	20.32	20.11	20.08
		1	25	20.38	20.35	20.47
		1	49	20.61	20.24	20.16
		25	0	19.16	19.12	19.12
		25	12	19.21	19.09	19.05
		25	25	19.26	19.31	19.10
		50	0	19.21	19.08	19.07



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				20025	20175	20325
				1717.5	1732.5	1747.5
4/15	QPSK	1	0	22.08	22.34	22.13
		1	37	22.10	22.22	22.14
		1	74	22.08	22.02	22.13
		36	0	21.09	21.03	21.06
		36	29	21.21	21.12	21.16
		36	30	21.18	21.11	21.10
		75	0	21.16	21.05	20.91
	16QAM	1	0	21.26	21.39	21.12
		1	37	21.37	21.43	21.59
		1	74	21.42	21.19	21.13
		36	0	20.12	20.16	20.02
		36	29	20.52	20.14	20.14
		36	30	20.21	20.13	20.06
		75	0	20.19	19.98	20.04
	64QAM	1	0	20.47	20.71	20.34
		1	37	20.65	20.32	20.54
		1	74	20.38	19.87	20.44
		36	0	19.15	19.17	19.04
		36	29	19.19	19.07	19.13
		36	30	19.09	19.12	19.15
		75	0	19.22	19.15	19.00



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				20050	20175	20300
				1720	1732.5	1745
4/20	QPSK	1	0	22.12	22.05	21.95
		1	49	22.05	22.10	22.04
		1	99	22.11	22.06	22.03
		50	0	21.11	21.11	21.09
		50	24	21.14	21.15	21.08
		50	50	21.92	21.21	21.13
		100	0	21.13	21.05	21.03
	16QAM	1	0	21.03	21.34	21.33
		1	49	21.29	21.33	21.18
		1	99	21.26	21.09	21.44
		50	0	20.09	20.14	20.14
		50	24	20.49	20.20	20.07
		50	50	20.23	20.11	20.15
		100	0	20.19	20.09	20.11
	64QAM	1	0	20.71	20.21	20.26
		1	49	21.09	20.27	20.52
		1	99	20.59	20.41	20.44
		50	0	19.12	19.16	19.10
		50	24	19.08	19.16	19.05
		50	50	19.21	19.20	19.10
		100	0	19.16	19.09	19.07



Test Report No.: PSU-NQN2504150110RF03

LTE Band 38

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				37775	38000	38225
				2572.5	2595	2617.5
38/5	QPSK	1	0	22.69	22.57	23.04
		1	12	22.88	22.79	22.91
		1	24	22.70	22.63	22.65
		12	0	21.82	21.73	21.69
		12	7	21.74	21.72	21.79
		12	13	21.74	21.65	21.78
		25	0	21.72	21.66	21.76
	16QAM	1	0	21.71	22.01	22.00
		1	12	21.82	22.01	21.88
		1	24	21.45	21.93	21.97
		12	0	20.89	20.75	20.72
		12	7	20.83	20.78	20.88
		12	13	20.82	20.58	20.77
		25	0	20.79	20.64	20.77
	64QAM	1	0	20.95	20.77	20.93
		1	12	20.98	20.74	20.95
		1	24	20.91	20.55	20.90
		12	0	19.78	19.71	19.70
		12	7	19.77	19.68	19.71
		12	13	19.80	19.56	19.68
		25	0	19.74	19.66	19.78



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				37800	38000	38200
				2575	2595	2615
38/10	QPSK	1	0	22.61	22.57	22.63
		1	25	22.56	22.64	22.68
		1	49	22.47	22.48	22.71
		25	0	21.72	21.58	21.63
		25	12	21.69	21.64	21.74
		25	25	21.63	21.66	21.80
		50	0	21.61	21.68	21.65
	16QAM	1	0	21.78	21.85	21.79
		1	25	21.85	21.88	21.99
		1	49	21.75	21.94	21.77
		25	0	20.76	20.69	20.71
		25	12	20.69	20.63	20.75
		25	25	20.72	20.70	20.74
		50	0	20.68	20.67	20.64
	64QAM	1	0	20.83	20.73	20.74
		1	25	20.85	20.86	21.09
		1	49	20.77	21.10	20.83
		25	0	19.65	19.73	19.75
		25	12	19.70	19.78	19.70
		25	25	19.65	19.73	19.80
		50	0	19.71	19.64	19.68



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				37825	38000	38175
				2577.5	2595	2612.5
38/15	QPSK	1	0	22.66	22.45	22.52
		1	37	22.59	22.67	22.73
		1	74	22.63	22.54	22.55
		36	0	21.63	21.63	21.63
		36	29	21.66	21.64	21.72
		36	30	21.65	21.67	21.71
		75	0	21.63	21.62	21.61
	16QAM	1	0	22.12	21.78	21.79
		1	37	21.77	21.75	21.47
		1	74	21.82	21.80	22.27
		36	0	20.70	20.71	20.68
		36	29	20.69	20.61	20.83
		36	30	20.69	20.65	20.73
		75	0	20.68	20.69	20.68
	64QAM	1	0	20.86	21.18	20.57
		1	37	20.88	20.91	20.90
		1	74	20.98	21.04	20.71
		36	0	19.74	19.75	19.70
		36	29	19.70	19.69	19.75
		36	30	19.77	19.72	19.75
		75	0	19.72	19.68	19.71



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				37850	38000	38150
				2580	2595	2610
38/20	QPSK	1	0	22.54	22.86	22.62
		1	49	22.52	22.53	22.53
		1	99	22.59	22.71	22.70
		50	0	21.72	21.61	21.59
		50	24	21.69	21.59	21.73
		50	50	21.59	21.66	21.70
		100	0	21.60	21.70	21.63
	16QAM	1	0	22.09	21.86	21.92
		1	49	21.77	21.73	21.88
		1	99	21.72	21.89	21.78
		50	0	20.67	20.69	20.61
		50	24	20.67	20.67	20.71
		50	50	20.62	20.69	20.79
		100	0	20.62	20.66	20.73
	64QAM	1	0	20.72	21.11	20.60
		1	49	20.75	21.07	21.07
		1	99	20.99	20.92	20.78
		50	0	19.66	19.64	19.61
		50	24	19.70	19.73	19.76
		50	50	19.55	19.68	19.77
		100	0	19.66	19.67	19.75



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

LTE Band 41

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				39675	40620	41565
				2498.5	2593	2687.5
41/5	QPSK	1	0	23.39	23.08	23.35
		1	12	23.56	23.35	23.49
		1	24	23.22	23.14	23.32
		12	0	22.41	22.24	22.31
		12	7	22.40	22.16	22.34
		12	13	22.29	22.15	22.37
		25	0	22.41	22.19	22.28
	16QAM	1	0	22.37	22.17	22.43
		1	12	22.47	21.85	22.29
		1	24	22.59	21.99	22.31
		12	0	21.33	21.17	21.33
		12	7	21.52	21.02	21.39
		12	13	21.29	21.16	21.29
		25	0	21.29	21.16	21.32
	64QAM	1	0	21.47	21.35	21.18
		1	12	20.97	21.12	21.49
		1	24	21.45	21.16	21.09
		12	0	20.38	20.15	20.34
		12	7	20.43	20.17	20.26
		12	13	20.43	20.28	20.50
		25	0	20.35	20.23	20.32

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				39700	40620	41540
				2501	2593	2685
41/10	QPSK	1	0	23.45	23.05	23.25
		1	25	23.44	23.07	23.31
		1	49	23.27	23.13	23.20
		25	0	22.41	22.04	22.31
		25	12	22.48	22.20	22.35
		25	25	22.26	22.17	22.36
		50	0	22.35	22.17	22.31
	16QAM	1	0	22.47	22.22	22.53
		1	25	22.64	22.23	22.39
		1	49	22.46	22.06	22.25
		25	0	21.64	21.06	21.35
		25	12	21.41	21.25	21.28
		25	25	21.41	21.25	21.51
		50	0	21.36	21.18	21.40
	64QAM	1	0	21.26	21.14	21.30
		1	25	21.15	21.29	21.27
		1	49	21.14	20.99	21.38
		25	0	20.46	20.09	20.36
		25	12	20.51	20.21	20.27
		25	25	20.33	20.24	20.40
		50	0	20.36	20.22	20.34



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				39725	40620	41515
41/15	QPSK	1	0	23.32	23.32	23.30
		1	37	23.34	23.11	23.32
		1	74	23.47	23.13	23.31
		36	0	22.41	22.01	22.33
		36	29	22.30	22.18	22.42
		36	30	22.31	22.12	22.34
		75	0	22.30	22.10	22.35
	16QAM	1	0	22.30	22.16	22.34
		1	37	22.16	22.21	22.36
		1	74	22.15	22.32	22.28
		36	0	21.32	21.07	21.25
		36	29	21.26	21.26	21.44
		36	30	21.34	21.16	21.39
		75	0	21.30	21.13	21.40
	64QAM	1	0	21.57	21.07	21.08
		1	37	21.52	21.11	21.38
		1	74	21.40	21.03	21.44
		36	0	20.38	20.15	20.43
		36	29	20.37	20.10	20.50
		36	30	20.37	20.20	20.44
		75	0	20.20	20.18	20.40



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				39750	40620	41490
				2506	2593	2680
41/20	QPSK	1	0	23.45	23.01	23.32
		1	49	23.31	23.12	23.23
		1	99	23.41	23.07	23.48
		50	0	22.61	22.05	22.31
		50	24	22.46	22.24	22.40
		50	50	22.33	22.20	22.35
		100	0	22.37	22.18	22.38
	16QAM	1	0	22.51	21.93	21.87
		1	49	22.40	22.20	22.25
		1	99	22.53	22.38	22.08
		50	0	21.42	21.08	21.39
		50	24	21.49	21.27	21.42
		50	50	21.33	21.24	21.35
		100	0	21.49	21.20	21.41
	64QAM	1	0	20.96	20.83	21.16
		1	49	21.41	20.84	21.68
		1	99	21.07	21.08	20.99
		50	0	20.35	20.05	20.18
		50	24	20.41	20.22	20.38
		50	50	20.43	20.19	20.43
		100	0	20.38	20.14	20.42



Test Report No.: PSU-NQN2504150110RF03

LTE Band 66

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				131979	132322	132665
				1710.7	1755	1779.3
66/1.4	QPSK	1	0	22.11	22.06	22.06
		1	3	22.15	22.10	21.96
		1	5	22.13	22.05	22.10
		3	0	22.15	22.00	22.10
		3	1	22.13	22.24	22.11
		3	3	22.16	22.02	22.10
		6	0	21.17	21.09	21.10
	16QAM	1	0	21.35	21.38	21.17
		1	3	21.29	21.32	21.49
		1	5	21.24	21.42	21.39
		3	0	21.10	21.11	21.27
		3	1	21.11	21.21	21.12
		3	3	21.24	21.19	21.25
		6	0	20.37	20.16	20.17
	64QAM	1	0	20.60	20.23	20.01
		1	3	20.76	20.30	20.64
		1	5	20.20	20.62	20.17
		3	0	20.30	20.22	20.21
		3	1	20.33	20.29	20.39
		3	3	20.32	20.18	20.45
		6	0	19.25	19.08	19.26



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				131987	132322	132657
				1711.5	1755	1778.5
66/3	QPSK	1	0	22.16	21.91	22.06
		1	8	22.24	22.29	22.18
		1	14	22.15	22.08	22.00
		8	0	21.25	21.13	21.15
		8	4	21.27	21.17	21.24
		8	7	21.23	21.19	21.20
		15	0	21.15	21.10	21.07
	16QAM	1	0	21.67	21.40	21.57
		1	8	21.75	21.74	21.94
		1	14	21.55	21.36	21.44
		8	0	20.32	20.10	20.20
		8	4	20.27	20.19	20.33
		8	7	20.12	20.21	20.25
		15	0	20.17	20.12	20.05
	64QAM	1	0	20.52	20.33	20.70
		1	8	20.53	20.26	20.48
		1	14	20.17	20.48	20.39
		8	0	19.35	19.00	19.16
		8	4	19.25	19.32	19.34
		8	7	19.34	19.21	19.21
		15	0	19.28	19.11	19.04



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				131997	132322	132647
				1712.5	1755	1777.5
66/5	QPSK	1	0	22.47	22.00	22.07
		1	12	22.58	22.21	22.12
		1	24	22.23	22.08	22.26
		12	0	21.22	21.10	21.19
		12	7	21.25	21.11	21.35
		12	13	21.12	21.15	21.26
		25	0	21.22	21.09	21.18
	16QAM	1	0	21.42	21.50	21.49
		1	12	21.39	21.38	21.22
		1	24	21.27	21.25	21.31
		12	0	20.29	20.13	20.19
		12	7	20.41	20.11	20.29
		12	13	20.08	20.12	20.15
		25	0	20.26	20.00	20.25
	64QAM	1	0	20.55	20.47	20.48
		1	12	20.75	20.53	20.31
		1	24	20.52	20.58	20.58
		12	0	19.24	19.15	19.20
		12	7	19.27	19.09	19.32
		12	13	19.28	19.18	19.19
		25	0	19.30	19.10	19.13



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				132022	132322	132622
				1715	1755	1775
66/10	QPSK	1	0	22.16	22.08	22.18
		1	25	22.10	22.11	22.29
		1	49	22.06	22.07	22.12
		25	0	21.25	21.02	21.12
		25	12	21.24	21.11	21.21
		25	25	21.24	21.17	21.17
		50	0	21.21	21.04	21.16
	16QAM	1	0	21.29	21.41	21.40
		1	25	21.66	21.57	21.64
		1	49	21.55	21.52	21.31
		25	0	20.28	20.13	20.14
		25	12	20.30	20.07	20.25
		25	25	20.18	20.22	20.18
		50	0	20.27	20.06	20.25
	64QAM	1	0	20.57	20.26	20.26
		1	25	20.28	20.37	20.27
		1	49	20.53	20.57	20.11
		25	0	19.26	19.11	19.18
		25	12	19.36	19.13	19.29
		25	25	19.26	19.18	19.15
		50	0	19.22	19.13	19.22



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				132047	132322	132597
				1717.5	1755	1772.5
66/15	QPSK	1	0	22.17	22.33	21.98
		1	37	22.13	22.14	22.04
		1	74	22.23	22.07	22.00
		36	0	21.14	21.01	21.11
		36	29	21.22	21.12	21.23
		36	30	21.19	21.13	21.17
		75	0	21.15	20.96	21.03
	16QAM	1	0	21.49	21.14	21.19
		1	37	21.71	21.51	21.24
		1	74	21.84	20.99	21.51
		36	0	20.20	20.09	20.11
		36	29	20.20	20.07	20.19
		36	30	20.19	20.09	20.19
		75	0	20.20	20.03	20.07
	64QAM	1	0	20.58	20.67	20.50
		1	37	20.44	20.19	20.44
		1	74	20.19	20.36	20.59
		36	0	19.15	19.12	19.13
		36	29	19.23	19.20	19.20
		36	30	19.23	19.08	19.21
		75	0	19.23	19.08	19.15



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)		
				132072	132322	132572
				1720	1755	1770
66/20	QPSK	1	0	22.04	21.99	22.06
		1	49	22.18	22.00	21.99
		1	99	22.16	21.95	22.06
		50	0	21.25	21.07	21.09
		50	24	21.22	21.08	21.10
		50	50	21.21	21.13	21.18
		100	0	21.22	21.04	21.06
	16QAM	1	0	21.43	21.14	21.15
		1	49	21.23	21.83	21.12
		1	99	21.15	21.41	21.28
		50	0	20.26	20.04	20.17
		50	24	20.21	20.09	20.11
		50	50	20.15	20.09	20.14
		100	0	20.19	20.13	20.12
	64QAM	1	0	20.35	20.44	20.36
		1	49	20.26	20.60	20.25
		1	99	20.17	20.83	20.44
		50	0	19.25	19.14	19.14
		50	24	19.18	19.06	19.16
		50	50	19.14	19.07	19.11
		100	0	19.24	19.10	19.15



BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF03

EIRP

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
Release 99	RMC, 12.2kbps	1712.4	1312	22.22	19.72	0.094
Release 99	RMC, 12.2kbps	1732.6	1412	22.19	19.69	0.093
Release 99	RMC, 12.2kbps	1752.6	1513	22.11	19.61	0.091

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSDPA	Subtest1	1712.4	1312	21.22	18.72	0.074
HSDPA	Subtest1	1732.6	1412	21.22	18.72	0.074
HSDPA	Subtest1	1752.6	1513	21.13	18.63	0.073
HSDPA	Subtest2	1712.4	1312	21.20	18.70	0.074
HSDPA	Subtest2	1732.6	1412	21.16	18.66	0.073
HSDPA	Subtest2	1752.6	1513	21.13	18.63	0.073
HSDPA	Subtest3	1712.4	1312	20.71	18.21	0.066
HSDPA	Subtest3	1732.6	1412	20.67	18.17	0.066
HSDPA	Subtest3	1752.6	1513	20.63	18.13	0.065
HSDPA	Subtest4	1712.4	1312	20.64	18.14	0.065
HSDPA	Subtest4	1732.6	1412	20.67	18.17	0.066
HSDPA	Subtest4	1752.6	1513	20.60	18.10	0.065

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSUPA	Subtest1	1712.4	1312	21.20	18.70	0.074
HSUPA	Subtest1	1732.6	1412	21.16	18.66	0.073
HSUPA	Subtest1	1752.6	1513	21.10	18.60	0.072
HSUPA	Subtest2	1712.4	1312	19.22	16.72	0.047
HSUPA	Subtest2	1732.6	1412	19.17	16.67	0.046
HSUPA	Subtest2	1752.6	1513	19.10	16.60	0.046
HSUPA	Subtest3	1712.4	1312	20.23	17.73	0.059
HSUPA	Subtest3	1732.6	1412	20.16	17.66	0.058
HSUPA	Subtest3	1752.6	1513	20.09	17.59	0.057
HSUPA	Subtest4	1712.4	1312	19.05	16.55	0.045
HSUPA	Subtest4	1732.6	1412	19.05	16.55	0.045
HSUPA	Subtest4	1752.6	1513	18.92	16.42	0.044
HSUPA	Subtest5	1712.4	1312	21.20	18.70	0.074
HSUPA	Subtest5	1732.6	1412	21.17	18.67	0.074
HSUPA	Subtest5	1752.6	1513	21.08	18.58	0.072



Test Report No.: PSU-NQN2504150110RF03

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
HSPA+	QPSK	1712.4	1312	20.71	18.21	0.066
HSPA+	QPSK	1732.6	1412	20.69	18.19	0.066
HSPA+	QPSK	1752.6	1513	20.65	18.15	0.065
HSPA+	16QAM	1712.4	1312	20.70	18.20	0.066
HSPA+	16QAM	1732.6	1412	20.68	18.18	0.066
HSPA+	16QAM	1752.6	1513	20.61	18.11	0.065



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

LTE BAND 4

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				19957	20175	20393	19957	20175	20393	19957	20175	20393
				1710.7	1732.5	1754.3	1710.7	1732.5	1754.3	1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.11	22.17	22.09	19.61	19.67	19.59	0.091	0.093	0.091
		1	3	22.11	22.11	22.00	19.61	19.61	19.50	0.091	0.091	0.089
		1	5	22.05	22.04	22.00	19.55	19.54	19.50	0.090	0.090	0.089
		3	0	22.26	22.25	22.04	19.76	19.75	19.54	0.095	0.094	0.090
		3	1	22.00	22.19	22.03	19.50	19.69	19.53	0.089	0.093	0.090
		3	3	22.13	22.11	22.04	19.63	19.61	19.54	0.092	0.091	0.090
		6	0	21.15	21.14	21.05	18.65	18.64	18.55	0.073	0.073	0.072
	16QAM	1	0	21.43	21.32	21.16	18.93	18.82	18.66	0.078	0.076	0.073
		1	3	21.57	21.48	21.13	19.07	18.98	18.63	0.081	0.079	0.073
		1	5	21.26	21.17	21.30	18.76	18.67	18.80	0.075	0.074	0.076
		3	0	21.19	21.39	21.09	18.69	18.89	18.59	0.074	0.077	0.072
		3	1	21.09	21.16	21.05	18.59	18.66	18.55	0.072	0.073	0.072
		3	3	21.17	21.24	21.04	18.67	18.74	18.54	0.074	0.075	0.071
		6	0	20.02	20.13	20.07	17.52	17.63	17.57	0.056	0.058	0.057
	64QAM	1	0	20.30	20.32	20.61	17.80	17.82	18.11	0.060	0.061	0.065
		1	3	20.75	20.18	20.31	18.25	17.68	17.81	0.067	0.059	0.060
		1	5	20.43	20.42	20.33	17.93	17.92	17.83	0.062	0.062	0.061
		3	0	20.35	20.31	20.12	17.85	17.81	17.62	0.061	0.060	0.058
		3	1	20.19	20.40	20.23	17.69	17.90	17.73	0.059	0.062	0.059
		3	3	20.31	20.29	20.13	17.81	17.79	17.63	0.060	0.060	0.058
		6	0	19.10	19.06	19.09	16.60	16.56	16.59	0.046	0.045	0.046



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				19965	20175	20385	19965	20175	20385	19965	20175	20385
				1711.5	1732.5	1753.5	1711.5	1732.5	1753.5	1711.5	1732.5	1753.5
3	QPSK	1	0	22.45	22.28	22.16	19.95	19.78	19.66	0.099	0.095	0.092
		1	8	22.67	22.48	22.14	20.17	19.98	19.64	0.104	0.100	0.092
		1	14	22.41	22.38	22.14	19.91	19.88	19.64	0.098	0.097	0.092
		8	0	21.50	21.44	21.37	19.00	18.94	18.87	0.079	0.078	0.077
		8	4	21.52	21.47	21.33	19.02	18.97	18.83	0.080	0.079	0.076
		8	7	21.51	21.43	21.31	19.01	18.93	18.81	0.080	0.078	0.076
		15	0	21.56	21.43	21.38	19.06	18.93	18.88	0.081	0.078	0.077
	16QAM	1	0	21.61	21.49	21.35	19.11	18.99	18.85	0.081	0.079	0.077
		1	8	21.91	21.51	21.62	19.41	19.01	19.12	0.087	0.080	0.082
		1	14	21.61	21.71	21.37	19.11	19.21	18.87	0.081	0.083	0.077
		8	0	20.53	20.40	20.28	18.03	17.90	17.78	0.064	0.062	0.060
		8	4	20.60	20.38	20.38	18.10	17.88	17.88	0.065	0.061	0.061
		8	7	20.64	20.46	20.35	18.14	17.96	17.85	0.065	0.063	0.061
		15	0	20.48	20.46	20.27	17.98	17.96	17.77	0.063	0.063	0.060
	64QAM	1	0	20.56	20.31	20.71	18.06	17.81	18.21	0.064	0.060	0.066
		1	8	20.65	21.07	20.66	18.15	18.57	18.16	0.065	0.072	0.065
		1	14	20.83	20.40	20.12	18.33	17.90	17.62	0.068	0.062	0.058
		8	0	19.61	19.57	19.35	17.11	17.07	16.85	0.051	0.051	0.048
		8	4	19.65	19.66	19.28	17.15	17.16	16.78	0.052	0.052	0.048
		8	7	19.61	19.44	19.40	17.11	16.94	16.90	0.051	0.049	0.049
		15	0	19.44	19.50	19.31	16.94	17.00	16.81	0.049	0.050	0.048



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				19975	20175	20375	19975	20175	20375	19975	20175	20375
				1712.5	1732.5	1752.5	1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
5	QPSK	1	0	22.29	22.16	22.24	19.79	19.66	19.74	0.095	0.092	0.094
		1	12	22.21	22.20	22.11	19.71	19.70	19.61	0.094	0.093	0.091
		1	24	22.18	22.01	21.98	19.68	19.51	19.48	0.093	0.089	0.089
		12	0	21.16	21.15	21.13	18.66	18.65	18.63	0.073	0.073	0.073
		12	7	21.23	21.27	21.13	18.73	18.77	18.63	0.075	0.075	0.073
		12	13	21.14	21.18	21.03	18.64	18.68	18.53	0.073	0.074	0.071
		25	0	21.17	21.12	21.14	18.67	18.62	18.64	0.074	0.073	0.073
	16QAM	1	0	21.17	21.18	21.19	18.67	18.68	18.69	0.074	0.074	0.074
		1	12	21.38	21.23	21.59	18.88	18.73	19.09	0.077	0.075	0.081
		1	24	21.69	21.39	21.11	19.19	18.89	18.61	0.083	0.077	0.073
		12	0	20.17	20.19	20.16	17.67	17.69	17.66	0.058	0.059	0.058
		12	7	20.27	20.28	20.14	17.77	17.78	17.64	0.060	0.060	0.058
		12	13	20.25	20.25	20.10	17.75	17.75	17.60	0.060	0.060	0.058
		25	0	20.14	20.19	20.12	17.64	17.69	17.62	0.058	0.059	0.058
	64QAM	1	0	20.91	20.33	20.31	18.41	17.83	17.81	0.069	0.061	0.060
		1	12	20.57	20.41	20.21	18.07	17.91	17.71	0.064	0.062	0.059
		1	24	20.63	20.63	20.16	18.13	18.13	17.66	0.065	0.065	0.058
		12	0	19.31	19.02	19.03	16.81	16.52	16.53	0.048	0.045	0.045
		12	7	19.26	19.30	19.16	16.76	16.80	16.66	0.047	0.048	0.046
		12	13	19.25	19.10	19.05	16.75	16.60	16.55	0.047	0.046	0.045
		25	0	19.21	19.09	19.10	16.71	16.59	16.60	0.047	0.046	0.046



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				20000	20175	20350	20000	20175	20350	20000	20175	20350
				1715	1732.5	1750	1715	1732.5	1750	1715	1732.5	1750
10	QPSK	1	0	22.02	22.34	21.96	19.52	19.84	19.46	0.090	0.096	0.088
		1	25	22.17	22.11	21.92	19.67	19.61	19.42	0.093	0.091	0.087
		1	49	22.12	22.07	22.10	19.62	19.57	19.60	0.092	0.091	0.091
		25	0	21.17	21.15	21.10	18.67	18.65	18.60	0.074	0.073	0.072
		25	12	21.20	21.08	21.08	18.70	18.58	18.58	0.074	0.072	0.072
		25	25	21.21	21.18	21.06	18.71	18.68	18.56	0.074	0.074	0.072
		50	0	21.20	21.06	21.05	18.70	18.56	18.55	0.074	0.072	0.072
	16QAM	1	0	21.31	21.32	21.53	18.81	18.82	19.03	0.076	0.076	0.080
		1	25	21.43	21.33	21.27	18.93	18.83	18.77	0.078	0.076	0.075
		1	49	21.05	21.00	21.23	18.55	18.50	18.73	0.072	0.071	0.075
		25	0	20.10	20.21	20.16	17.60	17.71	17.66	0.058	0.059	0.058
		25	12	20.21	20.13	20.16	17.71	17.63	17.66	0.059	0.058	0.058
		25	25	20.30	20.22	20.16	17.80	17.72	17.66	0.060	0.059	0.058
		50	0	20.16	20.13	20.12	17.66	17.63	17.62	0.058	0.058	0.058
	64QAM	1	0	20.32	20.11	20.08	17.82	17.61	17.58	0.061	0.058	0.057
		1	25	20.38	20.35	20.47	17.88	17.85	17.97	0.061	0.061	0.063
		1	49	20.61	20.24	20.16	18.11	17.74	17.66	0.065	0.059	0.058
		25	0	19.16	19.12	19.12	16.66	16.62	16.62	0.046	0.046	0.046
		25	12	19.21	19.09	19.05	16.71	16.59	16.55	0.047	0.046	0.045
		25	25	19.26	19.31	19.10	16.76	16.81	16.60	0.047	0.048	0.046
		50	0	19.21	19.08	19.07	16.71	16.58	16.57	0.047	0.045	0.045



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				20025	20175	20325	20025	20175	20325	20025	20175	20325
				1717.5	1732.5	1747.5	1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
15	QPSK	1	0	22.08	22.34	22.13	19.58	19.84	19.63	0.091	0.096	0.092
		1	37	22.10	22.22	22.14	19.60	19.72	19.64	0.091	0.094	0.092
		1	74	22.08	22.02	22.13	19.58	19.52	19.63	0.091	0.090	0.092
		36	0	21.09	21.03	21.06	18.59	18.53	18.56	0.072	0.071	0.072
		36	29	21.21	21.12	21.16	18.71	18.62	18.66	0.074	0.073	0.073
		36	30	21.18	21.11	21.10	18.68	18.61	18.60	0.074	0.073	0.072
		75	0	21.16	21.05	20.91	18.66	18.55	18.41	0.073	0.072	0.069
	16QAM	1	0	21.26	21.39	21.12	18.76	18.89	18.62	0.075	0.077	0.073
		1	37	21.37	21.43	21.59	18.87	18.93	19.09	0.077	0.078	0.081
		1	74	21.42	21.19	21.13	18.92	18.69	18.63	0.078	0.074	0.073
		36	0	20.12	20.16	20.02	17.62	17.66	17.52	0.058	0.058	0.056
		36	29	20.52	20.14	20.14	18.02	17.64	17.64	0.063	0.058	0.058
		36	30	20.21	20.13	20.06	17.71	17.63	17.56	0.059	0.058	0.057
		75	0	20.19	19.98	20.04	17.69	17.48	17.54	0.059	0.056	0.057
	64QAM	1	0	20.47	20.71	20.34	17.97	18.21	17.84	0.063	0.066	0.061
		1	37	20.65	20.32	20.54	18.15	17.82	18.04	0.065	0.061	0.064
		1	74	20.38	19.87	20.44	17.88	17.37	17.94	0.061	0.055	0.062
		36	0	19.15	19.17	19.04	16.65	16.67	16.54	0.046	0.046	0.045
		36	29	19.19	19.07	19.13	16.69	16.57	16.63	0.047	0.045	0.046
		36	30	19.09	19.12	19.15	16.59	16.62	16.65	0.046	0.046	0.046
		75	0	19.22	19.15	19.00	16.72	16.65	16.50	0.047	0.046	0.045



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				20050	20175	20300	20050	20175	20300	20050	20175	20300
				1720	1732.5	1745	1720	1732.5	1745	1720	1732.5	1745
20	QPSK	1	0	22.12	22.05	21.95	19.62	19.55	19.45	0.092	0.090	0.088
		1	49	22.05	22.10	22.04	19.55	19.60	19.54	0.090	0.091	0.090
		1	99	22.11	22.06	22.03	19.61	19.56	19.53	0.091	0.090	0.090
		50	0	21.11	21.11	21.09	18.61	18.61	18.59	0.073	0.073	0.072
		50	24	21.14	21.15	21.08	18.64	18.65	18.58	0.073	0.073	0.072
		50	50	21.92	21.21	21.13	19.42	18.71	18.63	0.087	0.074	0.073
		100	0	21.13	21.05	21.03	18.63	18.55	18.53	0.073	0.072	0.071
	16QAM	1	0	21.03	21.34	21.33	18.53	18.84	18.83	0.071	0.077	0.076
		1	49	21.29	21.33	21.18	18.79	18.83	18.68	0.076	0.076	0.074
		1	99	21.26	21.09	21.44	18.76	18.59	18.94	0.075	0.072	0.078
		50	0	20.09	20.14	20.14	17.59	17.64	17.64	0.057	0.058	0.058
		50	24	20.49	20.20	20.07	17.99	17.70	17.57	0.063	0.059	0.057
		50	50	20.23	20.11	20.15	17.73	17.61	17.65	0.059	0.058	0.058
		100	0	20.19	20.09	20.11	17.69	17.59	17.61	0.059	0.057	0.058
	64QAM	1	0	20.71	20.21	20.26	18.21	17.71	17.76	0.066	0.059	0.060
		1	49	21.09	20.27	20.52	18.59	17.77	18.02	0.072	0.060	0.063
		1	99	20.59	20.41	20.44	18.09	17.91	17.94	0.064	0.062	0.062
		50	0	19.12	19.16	19.10	16.62	16.66	16.60	0.046	0.046	0.046
		50	24	19.08	19.16	19.05	16.58	16.66	16.55	0.045	0.046	0.045
		50	50	19.21	19.20	19.10	16.71	16.70	16.60	0.047	0.047	0.046
		100	0	19.16	19.09	19.07	16.66	16.59	16.57	0.046	0.046	0.045

LTE BAND 38

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				37775	38000	38225	37775	38000	38225	37775	38000	38225
				2572.5	2595	2617.5	2572.5	2595	2617.5	2572.5	2595	2617.5
5	QPSK	1	0	22.69	22.57	23.04	20.49	20.37	20.84	0.112	0.109	0.121
		1	12	22.88	22.79	22.91	20.68	20.59	20.71	0.117	0.115	0.118
		1	24	22.70	22.63	22.65	20.50	20.43	20.45	0.112	0.110	0.111
		12	0	21.82	21.73	21.69	19.62	19.53	19.49	0.092	0.090	0.089
		12	7	21.74	21.72	21.79	19.54	19.52	19.59	0.090	0.090	0.091
		12	13	21.74	21.65	21.78	19.54	19.45	19.58	0.090	0.088	0.091
		25	0	21.72	21.66	21.76	19.52	19.46	19.56	0.090	0.088	0.090
	16QAM	1	0	21.71	22.01	22.00	19.51	19.81	19.80	0.089	0.096	0.095
		1	12	21.82	22.01	21.88	19.62	19.81	19.68	0.092	0.096	0.093
		1	24	21.45	21.93	21.97	19.25	19.73	19.77	0.084	0.094	0.095
		12	0	20.89	20.75	20.72	18.69	18.55	18.52	0.074	0.072	0.071
		12	7	20.83	20.78	20.88	18.63	18.58	18.68	0.073	0.072	0.074
		12	13	20.82	20.58	20.77	18.62	18.38	18.57	0.073	0.069	0.072
		25	0	20.79	20.64	20.77	18.59	18.44	18.57	0.072	0.070	0.072
	64QAM	1	0	20.95	20.77	20.93	18.75	18.57	18.73	0.075	0.072	0.075
		1	12	20.98	20.74	20.95	18.78	18.54	18.75	0.076	0.071	0.075
		1	24	20.91	20.55	20.90	18.71	18.35	18.70	0.074	0.068	0.074
		12	0	19.78	19.71	19.70	17.58	17.51	17.50	0.057	0.056	0.056
		12	7	19.77	19.68	19.71	17.57	17.48	17.51	0.057	0.056	0.056
		12	13	19.80	19.56	19.68	17.60	17.36	17.48	0.058	0.054	0.056
		25	0	19.74	19.66	19.78	17.54	17.46	17.58	0.057	0.056	0.057



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				37800	38000	38200	37800	38000	38200	37800	38000	38200
				2575	2595	2615	2575	2595	2615	2575	2595	2615
10	QPSK	1	0	22.61	22.57	22.63	20.41	20.37	20.43	0.110	0.109	0.110
		1	25	22.56	22.64	22.68	20.36	20.44	20.48	0.109	0.111	0.112
		1	49	22.47	22.48	22.71	20.27	20.28	20.51	0.106	0.107	0.112
		25	0	21.72	21.58	21.63	19.52	19.38	19.43	0.090	0.087	0.088
		25	12	21.69	21.64	21.74	19.49	19.44	19.54	0.089	0.088	0.090
		25	25	21.63	21.66	21.80	19.43	19.46	19.60	0.088	0.088	0.091
		50	0	21.61	21.68	21.65	19.41	19.48	19.45	0.087	0.089	0.088
	16QAM	1	0	21.78	21.85	21.79	19.58	19.65	19.59	0.091	0.092	0.091
		1	25	21.85	21.88	21.99	19.65	19.68	19.79	0.092	0.093	0.095
		1	49	21.75	21.94	21.77	19.55	19.74	19.57	0.090	0.094	0.091
		25	0	20.76	20.69	20.71	18.56	18.49	18.51	0.072	0.071	0.071
		25	12	20.69	20.63	20.75	18.49	18.43	18.55	0.071	0.070	0.072
		25	25	20.72	20.70	20.74	18.52	18.50	18.54	0.071	0.071	0.071
		50	0	20.68	20.67	20.64	18.48	18.47	18.44	0.070	0.070	0.070
	64QAM	1	0	20.83	20.73	20.74	18.63	18.53	18.54	0.073	0.071	0.071
		1	25	20.85	20.86	21.09	18.65	18.66	18.89	0.073	0.073	0.077
		1	49	20.77	21.10	20.83	18.57	18.90	18.63	0.072	0.078	0.073
		25	0	19.65	19.73	19.75	17.45	17.53	17.55	0.056	0.057	0.057
		25	12	19.70	19.78	19.70	17.50	17.58	17.50	0.056	0.057	0.056
		25	25	19.65	19.73	19.80	17.45	17.53	17.60	0.056	0.057	0.058
		50	0	19.71	19.64	19.68	17.51	17.44	17.48	0.056	0.055	0.056



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				37825	38000	38175	37825	38000	38175	37825	38000	38175
				2577.5	2595	2612.5	2577.5	2595	2612.5	2577.5	2595	2612.5
15	QPSK	1	0	22.66	22.45	22.52	20.46	20.25	20.32	0.111	0.106	0.108
		1	37	22.59	22.67	22.73	20.39	20.47	20.53	0.109	0.111	0.113
		1	74	22.63	22.54	22.55	20.43	20.34	20.35	0.110	0.108	0.108
		36	0	21.63	21.63	21.63	19.43	19.43	19.43	0.088	0.088	0.088
		36	29	21.66	21.64	21.72	19.46	19.44	19.52	0.088	0.088	0.090
		36	30	21.65	21.67	21.71	19.45	19.47	19.51	0.088	0.089	0.089
		75	0	21.63	21.62	21.61	19.43	19.42	19.41	0.088	0.087	0.087
	16QAM	1	0	22.12	21.78	21.79	19.92	19.58	19.59	0.098	0.091	0.091
		1	37	21.77	21.75	21.47	19.57	19.55	19.27	0.091	0.090	0.085
		1	74	21.82	21.80	22.27	19.62	19.60	20.07	0.092	0.091	0.102
		36	0	20.70	20.71	20.68	18.50	18.51	18.48	0.071	0.071	0.070
		36	29	20.69	20.61	20.83	18.49	18.41	18.63	0.071	0.069	0.073
		36	30	20.69	20.65	20.73	18.49	18.45	18.53	0.071	0.070	0.071
		75	0	20.68	20.69	20.68	18.48	18.49	18.48	0.070	0.071	0.070
	64QAM	1	0	20.86	21.18	20.57	18.66	18.98	18.37	0.073	0.079	0.069
		1	37	20.88	20.91	20.90	18.68	18.71	18.70	0.074	0.074	0.074
		1	74	20.98	21.04	20.71	18.78	18.84	18.51	0.076	0.077	0.071
		36	0	19.74	19.75	19.70	17.54	17.55	17.50	0.057	0.057	0.056
		36	29	19.70	19.69	19.75	17.50	17.49	17.55	0.056	0.056	0.057
		36	30	19.77	19.72	19.75	17.57	17.52	17.55	0.057	0.056	0.057
		75	0	19.72	19.68	19.71	17.52	17.48	17.51	0.056	0.056	0.056



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				37850	38000	38150	37850	38000	38150	37850	38000	38150
				2580	2595	2610	2580	2595	2610	2580	2595	2610
20	QPSK	1	0	22.54	22.86	22.62	20.34	20.66	20.42	0.108	0.116	0.110
		1	49	22.52	22.53	22.53	20.32	20.33	20.33	0.108	0.108	0.108
		1	99	22.59	22.71	22.70	20.39	20.51	20.50	0.109	0.112	0.112
		50	0	21.72	21.61	21.59	19.52	19.41	19.39	0.090	0.087	0.087
		50	24	21.69	21.59	21.73	19.49	19.39	19.53	0.089	0.087	0.090
		50	50	21.59	21.66	21.70	19.39	19.46	19.50	0.087	0.088	0.089
		100	0	21.60	21.70	21.63	19.40	19.50	19.43	0.087	0.089	0.088
	16QAM	1	0	22.09	21.86	21.92	19.89	19.66	19.72	0.097	0.092	0.094
		1	49	21.77	21.73	21.88	19.57	19.53	19.68	0.091	0.090	0.093
		1	99	21.72	21.89	21.78	19.52	19.69	19.58	0.090	0.093	0.091
		50	0	20.67	20.69	20.61	18.47	18.49	18.41	0.070	0.071	0.069
		50	24	20.67	20.67	20.71	18.47	18.47	18.51	0.070	0.070	0.071
		50	50	20.62	20.69	20.79	18.42	18.49	18.59	0.070	0.071	0.072
		100	0	20.62	20.66	20.73	18.42	18.46	18.53	0.070	0.070	0.071
	64QAM	1	0	20.72	21.11	20.60	18.52	18.91	18.40	0.071	0.078	0.069
		1	49	20.75	21.07	21.07	18.55	18.87	18.87	0.072	0.077	0.077
		1	99	20.99	20.92	20.78	18.79	18.72	18.58	0.076	0.074	0.072
		50	0	19.66	19.64	19.61	17.46	17.44	17.41	0.056	0.055	0.055
		50	24	19.70	19.73	19.76	17.50	17.53	17.56	0.056	0.057	0.057
		50	50	19.55	19.68	19.77	17.35	17.48	17.57	0.054	0.056	0.057
		100	0	19.66	19.67	19.75	17.46	17.47	17.55	0.056	0.056	0.057



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

LTE BAND 41

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				39675	40620	41565	39675	40620	41565	39675	40620	41565
				2498.5	2593	2687.5	2498.5	2593	2687.5	2498.5	2593	2687.5
5	QPSK	1	0	23.39	23.08	23.35	21.69	21.38	21.65	0.148	0.137	0.146
		1	12	23.56	23.35	23.49	21.86	21.65	21.79	0.153	0.146	0.151
		1	24	23.22	23.14	23.32	21.52	21.44	21.62	0.142	0.139	0.145
		12	0	22.41	22.24	22.31	20.71	20.54	20.61	0.118	0.113	0.115
		12	7	22.40	22.16	22.34	20.70	20.46	20.64	0.117	0.111	0.116
		12	13	22.29	22.15	22.37	20.59	20.45	20.67	0.115	0.111	0.117
		25	0	22.41	22.19	22.28	20.71	20.49	20.58	0.118	0.112	0.114
	16QAM	1	0	22.37	22.17	22.43	20.67	20.47	20.73	0.117	0.111	0.118
		1	12	22.47	21.85	22.29	20.77	20.15	20.59	0.119	0.104	0.115
		1	24	22.59	21.99	22.31	20.89	20.29	20.61	0.123	0.107	0.115
		12	0	21.33	21.17	21.33	19.63	19.47	19.63	0.092	0.089	0.092
		12	7	21.52	21.02	21.39	19.82	19.32	19.69	0.096	0.086	0.093
		12	13	21.29	21.16	21.29	19.59	19.46	19.59	0.091	0.088	0.091
		25	0	21.29	21.16	21.32	19.59	19.46	19.62	0.091	0.088	0.092
	64QAM	1	0	21.47	21.35	21.18	19.77	19.65	19.48	0.095	0.092	0.089
		1	12	20.97	21.12	21.49	19.27	19.42	19.79	0.085	0.087	0.095
		1	24	21.45	21.16	21.09	19.75	19.46	19.39	0.094	0.088	0.087
		12	0	20.38	20.15	20.34	18.68	18.45	18.64	0.074	0.070	0.073
		12	7	20.43	20.17	20.26	18.73	18.47	18.56	0.075	0.070	0.072
		12	13	20.43	20.28	20.50	18.73	18.58	18.80	0.075	0.072	0.076
		25	0	20.35	20.23	20.32	18.65	18.53	18.62	0.073	0.071	0.073



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				39700	40620	41540	39700	40620	41540	39700	40620	41540
				2501	2593	2685	2501	2593	2685	2501	2593	2685
10	QPSK	1	0	23.45	23.05	23.25	21.75	21.35	21.55	0.150	0.136	0.143
		1	25	23.44	23.07	23.31	21.74	21.37	21.61	0.149	0.137	0.145
		1	49	23.27	23.13	23.20	21.57	21.43	21.50	0.144	0.139	0.141
		25	0	22.41	22.04	22.31	20.71	20.34	20.61	0.118	0.108	0.115
		25	12	22.48	22.20	22.35	20.78	20.50	20.65	0.120	0.112	0.116
		25	25	22.26	22.17	22.36	20.56	20.47	20.66	0.114	0.111	0.116
		50	0	22.35	22.17	22.31	20.65	20.47	20.61	0.116	0.111	0.115
	16QAM	1	0	22.47	22.22	22.53	20.77	20.52	20.83	0.119	0.113	0.121
		1	25	22.64	22.23	22.39	20.94	20.53	20.69	0.124	0.113	0.117
		1	49	22.46	22.06	22.25	20.76	20.36	20.55	0.119	0.109	0.114
		25	0	21.64	21.06	21.35	19.94	19.36	19.65	0.099	0.086	0.092
		25	12	21.41	21.25	21.28	19.71	19.55	19.58	0.094	0.090	0.091
		25	25	21.41	21.25	21.51	19.71	19.55	19.81	0.094	0.090	0.096
		50	0	21.36	21.18	21.40	19.66	19.48	19.70	0.092	0.089	0.093
	64QAM	1	0	21.26	21.14	21.30	19.56	19.44	19.60	0.090	0.088	0.091
		1	25	21.15	21.29	21.27	19.45	19.59	19.57	0.088	0.091	0.091
		1	49	21.14	20.99	21.38	19.44	19.29	19.68	0.088	0.085	0.093
		25	0	20.46	20.09	20.36	18.76	18.39	18.66	0.075	0.069	0.073
		25	12	20.51	20.21	20.27	18.81	18.51	18.57	0.076	0.071	0.072
		25	25	20.33	20.24	20.40	18.63	18.54	18.70	0.073	0.071	0.074
		50	0	20.36	20.22	20.34	18.66	18.52	18.64	0.073	0.071	0.073



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				39725	40620	41515	39725	40620	41515	39725	40620	41515
				2503.5	2593	2682.5	2503.5	2593	2682.5	2503.5	2593	2682.5
15	QPSK	1	0	23.32	23.32	23.30	21.62	21.62	21.60	0.145	0.145	0.145
		1	37	23.34	23.11	23.32	21.64	21.41	21.62	0.146	0.138	0.145
		1	74	23.47	23.13	23.31	21.77	21.43	21.61	0.150	0.139	0.145
		36	0	22.41	22.01	22.33	20.71	20.31	20.63	0.118	0.107	0.116
		36	29	22.30	22.18	22.42	20.60	20.48	20.72	0.115	0.112	0.118
		36	30	22.31	22.12	22.34	20.61	20.42	20.64	0.115	0.110	0.116
		75	0	22.30	22.10	22.35	20.60	20.40	20.65	0.115	0.110	0.116
	16QAM	1	0	22.30	22.16	22.34	20.60	20.46	20.64	0.115	0.111	0.116
		1	37	22.16	22.21	22.36	20.46	20.51	20.66	0.111	0.112	0.116
		1	74	22.15	22.32	22.28	20.45	20.62	20.58	0.111	0.115	0.114
		36	0	21.32	21.07	21.25	19.62	19.37	19.55	0.092	0.086	0.090
		36	29	21.26	21.26	21.44	19.56	19.56	19.74	0.090	0.090	0.094
		36	30	21.34	21.16	21.39	19.64	19.46	19.69	0.092	0.088	0.093
		75	0	21.30	21.13	21.40	19.60	19.43	19.70	0.091	0.088	0.093
	64QAM	1	0	21.57	21.07	21.08	19.87	19.37	19.38	0.097	0.086	0.087
		1	37	21.52	21.11	21.38	19.82	19.41	19.68	0.096	0.087	0.093
		1	74	21.40	21.03	21.44	19.70	19.33	19.74	0.093	0.086	0.094
		36	0	20.38	20.15	20.43	18.68	18.45	18.73	0.074	0.070	0.075
		36	29	20.37	20.10	20.50	18.67	18.40	18.80	0.074	0.069	0.076
		36	30	20.37	20.20	20.44	18.67	18.50	18.74	0.074	0.071	0.075
		75	0	20.20	20.18	20.40	18.50	18.48	18.70	0.071	0.070	0.074



**BUREAU
VERITAS**

Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				39750	40620	41490	39750	40620	41490	39750	40620	41490
				2506	2593	2680	2506	2593	2680	2506	2593	2680
20	QPSK	1	0	23.45	23.01	23.32	21.75	21.31	21.62	0.150	0.135	0.145
		1	49	23.31	23.12	23.23	21.61	21.42	21.53	0.145	0.139	0.142
		1	99	23.41	23.07	23.48	21.71	21.37	21.78	0.148	0.137	0.151
		50	0	22.61	22.05	22.31	20.91	20.35	20.61	0.123	0.108	0.115
		50	24	22.46	22.24	22.40	20.76	20.54	20.70	0.119	0.113	0.117
		50	50	22.33	22.20	22.35	20.63	20.50	20.65	0.116	0.112	0.116
		100	0	22.37	22.18	22.38	20.67	20.48	20.68	0.117	0.112	0.117
	16QAM	1	0	22.51	21.93	21.87	20.81	20.23	20.17	0.121	0.105	0.104
		1	49	22.40	22.20	22.25	20.70	20.50	20.55	0.117	0.112	0.114
		1	99	22.53	22.38	22.08	20.83	20.68	20.38	0.121	0.117	0.109
		50	0	21.42	21.08	21.39	19.72	19.38	19.69	0.094	0.087	0.093
		50	24	21.49	21.27	21.42	19.79	19.57	19.72	0.095	0.091	0.094
		50	50	21.33	21.24	21.35	19.63	19.54	19.65	0.092	0.090	0.092
		100	0	21.49	21.20	21.41	19.79	19.50	19.71	0.095	0.089	0.094
	64QAM	1	0	20.96	20.83	21.16	19.26	19.13	19.46	0.084	0.082	0.088
		1	49	21.41	20.84	21.68	19.71	19.14	19.98	0.094	0.082	0.100
		1	99	21.07	21.08	20.99	19.37	19.38	19.29	0.086	0.087	0.085
		50	0	20.35	20.05	20.18	18.65	18.35	18.48	0.073	0.068	0.070
		50	24	20.41	20.22	20.38	18.71	18.52	18.68	0.074	0.071	0.074
		50	50	20.43	20.19	20.43	18.73	18.49	18.73	0.075	0.071	0.075
		100	0	20.38	20.14	20.42	18.68	18.44	18.72	0.074	0.070	0.074



Test Report No.: PSU-NQN2504150110RF03

LTE BAND 66

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				131979	132322	132665	131979	132322	132665	131979	132322	132665
				1710.7	1755	1779.3	1710.7	1755	1779.3	1710.7	1755	1779.3
1.4	QPSK	1	0	22.11	22.06	22.06	19.61	19.56	19.56	0.091	0.090	0.090
		1	3	22.15	22.10	21.96	19.65	19.60	19.46	0.092	0.091	0.088
		1	5	22.13	22.05	22.10	19.63	19.55	19.60	0.092	0.090	0.091
		3	0	22.15	22.00	22.10	19.65	19.50	19.60	0.092	0.089	0.091
		3	1	22.13	22.24	22.11	19.63	19.74	19.61	0.092	0.094	0.091
		3	3	22.16	22.02	22.10	19.66	19.52	19.60	0.092	0.090	0.091
		6	0	21.17	21.09	21.10	18.67	18.59	18.60	0.074	0.072	0.072
	16QAM	1	0	21.35	21.38	21.17	18.85	18.88	18.67	0.077	0.077	0.074
		1	3	21.29	21.32	21.49	18.79	18.82	18.99	0.076	0.076	0.079
		1	5	21.24	21.42	21.39	18.74	18.92	18.89	0.075	0.078	0.077
		3	0	21.10	21.11	21.27	18.60	18.61	18.77	0.072	0.073	0.075
		3	1	21.11	21.21	21.12	18.61	18.71	18.62	0.073	0.074	0.073
		3	3	21.24	21.19	21.25	18.74	18.69	18.75	0.075	0.074	0.075
		6	0	20.37	20.16	20.17	17.87	17.66	17.67	0.061	0.058	0.058
	64QAM	1	0	20.60	20.23	20.01	18.10	17.73	17.51	0.065	0.059	0.056
		1	3	20.76	20.30	20.64	18.26	17.80	18.14	0.067	0.060	0.065
		1	5	20.20	20.62	20.17	17.70	18.12	17.67	0.059	0.065	0.058
		3	0	20.30	20.22	20.21	17.80	17.72	17.71	0.060	0.059	0.059
		3	1	20.33	20.29	20.39	17.83	17.79	17.89	0.061	0.060	0.062
		3	3	20.32	20.18	20.45	17.82	17.68	17.95	0.061	0.059	0.062
		6	0	19.25	19.08	19.26	16.75	16.58	16.76	0.047	0.045	0.047



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				131987	132322	132657	131987	132322	132657	131987	132322	132657
				1711.5	1755	1778.5	1711.5	1755	1778.5	1711.5	1755	1778.5
3	QPSK	1	0	22.16	21.91	22.06	19.66	19.41	19.56	0.092	0.087	0.090
		1	8	22.24	22.29	22.18	19.74	19.79	19.68	0.094	0.095	0.093
		1	14	22.15	22.08	22.00	19.65	19.58	19.50	0.092	0.091	0.089
		8	0	21.25	21.13	21.15	18.75	18.63	18.65	0.075	0.073	0.073
		8	4	21.27	21.17	21.24	18.77	18.67	18.74	0.075	0.074	0.075
		8	7	21.23	21.19	21.20	18.73	18.69	18.70	0.075	0.074	0.074
		15	0	21.15	21.10	21.07	18.65	18.60	18.57	0.073	0.072	0.072
	16QAM	1	0	21.67	21.40	21.57	19.17	18.90	19.07	0.083	0.078	0.081
		1	8	21.75	21.74	21.94	19.25	19.24	19.44	0.084	0.084	0.088
		1	14	21.55	21.36	21.44	19.05	18.86	18.94	0.080	0.077	0.078
		8	0	20.32	20.10	20.20	17.82	17.60	17.70	0.061	0.058	0.059
		8	4	20.27	20.19	20.33	17.77	17.69	17.83	0.060	0.059	0.061
		8	7	20.12	20.21	20.25	17.62	17.71	17.75	0.058	0.059	0.060
		15	0	20.17	20.12	20.05	17.67	17.62	17.55	0.058	0.058	0.057
	64QAM	1	0	20.52	20.33	20.70	18.02	17.83	18.20	0.063	0.061	0.066
		1	8	20.53	20.26	20.48	18.03	17.76	17.98	0.064	0.060	0.063
		1	14	20.17	20.48	20.39	17.67	17.98	17.89	0.058	0.063	0.062
		8	0	19.35	19.00	19.16	16.85	16.50	16.66	0.048	0.045	0.046
		8	4	19.25	19.32	19.34	16.75	16.82	16.84	0.047	0.048	0.048
		8	7	19.34	19.21	19.21	16.84	16.71	16.71	0.048	0.047	0.047
		15	0	19.28	19.11	19.04	16.78	16.61	16.54	0.048	0.046	0.045



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				131997	132322	132647	131997	132322	132647	131997	132322	132647
				1712.5	1755	1777.5	1712.5	1755	1777.5	1712.5	1755	1777.5
5	QPSK	1	0	22.47	22.00	22.07	19.97	19.50	19.57	0.099	0.089	0.091
		1	12	22.58	22.21	22.12	20.08	19.71	19.62	0.102	0.094	0.092
		1	24	22.23	22.08	22.26	19.73	19.58	19.76	0.094	0.091	0.095
		12	0	21.22	21.10	21.19	18.72	18.60	18.69	0.074	0.072	0.074
		12	7	21.25	21.11	21.35	18.75	18.61	18.85	0.075	0.073	0.077
		12	13	21.12	21.15	21.26	18.62	18.65	18.76	0.073	0.073	0.075
		25	0	21.22	21.09	21.18	18.72	18.59	18.68	0.074	0.072	0.074
	16QAM	1	0	21.42	21.50	21.49	18.92	19.00	18.99	0.078	0.079	0.079
		1	12	21.39	21.38	21.22	18.89	18.88	18.72	0.077	0.077	0.074
		1	24	21.27	21.25	21.31	18.77	18.75	18.81	0.075	0.075	0.076
		12	0	20.29	20.13	20.19	17.79	17.63	17.69	0.060	0.058	0.059
		12	7	20.41	20.11	20.29	17.91	17.61	17.79	0.062	0.058	0.060
		12	13	20.08	20.12	20.15	17.58	17.62	17.65	0.057	0.058	0.058
		25	0	20.26	20.00	20.25	17.76	17.50	17.75	0.060	0.056	0.060
	64QAM	1	0	20.55	20.47	20.48	18.05	17.97	17.98	0.064	0.063	0.063
		1	12	20.75	20.53	20.31	18.25	18.03	17.81	0.067	0.064	0.060
		1	24	20.52	20.58	20.58	18.02	18.08	18.08	0.063	0.064	0.064
		12	0	19.24	19.15	19.20	16.74	16.65	16.70	0.047	0.046	0.047
		12	7	19.27	19.09	19.32	16.77	16.59	16.82	0.048	0.046	0.048
		12	13	19.28	19.18	19.19	16.78	16.68	16.69	0.048	0.047	0.047
		25	0	19.30	19.10	19.13	16.80	16.60	16.63	0.048	0.046	0.046



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				132022	132322	132622	132022	132322	132622	132022	132322	132622
				1715	1755	1775	1715	1755	1775	1715	1755	1775
10	QPSK	1	0	22.16	22.08	22.18	19.66	19.58	19.68	0.092	0.091	0.093
		1	25	22.10	22.11	22.29	19.60	19.61	19.79	0.091	0.091	0.095
		1	49	22.06	22.07	22.12	19.56	19.57	19.62	0.090	0.091	0.092
		25	0	21.25	21.02	21.12	18.75	18.52	18.62	0.075	0.071	0.073
		25	12	21.24	21.11	21.21	18.74	18.61	18.71	0.075	0.073	0.074
		25	25	21.24	21.17	21.17	18.74	18.67	18.67	0.075	0.074	0.074
		50	0	21.21	21.04	21.16	18.71	18.54	18.66	0.074	0.071	0.073
	16QAM	1	0	21.29	21.41	21.40	18.79	18.91	18.90	0.076	0.078	0.078
		1	25	21.66	21.57	21.64	19.16	19.07	19.14	0.082	0.081	0.082
		1	49	21.55	21.52	21.31	19.05	19.02	18.81	0.080	0.080	0.076
		25	0	20.28	20.13	20.14	17.78	17.63	17.64	0.060	0.058	0.058
		25	12	20.30	20.07	20.25	17.80	17.57	17.75	0.060	0.057	0.060
		25	25	20.18	20.22	20.18	17.68	17.72	17.68	0.059	0.059	0.059
		50	0	20.27	20.06	20.25	17.77	17.56	17.75	0.060	0.057	0.060
	64QAM	1	0	20.57	20.26	20.26	18.07	17.76	17.76	0.064	0.060	0.060
		1	25	20.28	20.37	20.27	17.78	17.87	17.77	0.060	0.061	0.060
		1	49	20.53	20.57	20.11	18.03	18.07	17.61	0.064	0.064	0.058
		25	0	19.26	19.11	19.18	16.76	16.61	16.68	0.047	0.046	0.047
		25	12	19.36	19.13	19.29	16.86	16.63	16.79	0.049	0.046	0.048
		25	25	19.26	19.18	19.15	16.76	16.68	16.65	0.047	0.047	0.046
		50	0	19.22	19.13	19.22	16.72	16.63	16.72	0.047	0.046	0.047



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				132047	132322	132597	132047	132322	132597	132047	132322	132597
				1717.5	1755	1772.5	1717.5	1755	1772.5	1717.5	1755	1772.5
15	QPSK	1	0	22.17	22.33	21.98	19.67	19.83	19.48	0.093	0.096	0.089
		1	37	22.13	22.14	22.04	19.63	19.64	19.54	0.092	0.092	0.090
		1	74	22.23	22.07	22.00	19.73	19.57	19.50	0.094	0.091	0.089
		36	0	21.14	21.01	21.11	18.64	18.51	18.61	0.073	0.071	0.073
		36	29	21.22	21.12	21.23	18.72	18.62	18.73	0.074	0.073	0.075
		36	30	21.19	21.13	21.17	18.69	18.63	18.67	0.074	0.073	0.074
		75	0	21.15	20.96	21.03	18.65	18.46	18.53	0.073	0.070	0.071
	16QAM	1	0	21.49	21.14	21.19	18.99	18.64	18.69	0.079	0.073	0.074
		1	37	21.71	21.51	21.24	19.21	19.01	18.74	0.083	0.080	0.075
		1	74	21.84	20.99	21.51	19.34	18.49	19.01	0.086	0.071	0.080
		36	0	20.20	20.09	20.11	17.70	17.59	17.61	0.059	0.057	0.058
		36	29	20.20	20.07	20.19	17.70	17.57	17.69	0.059	0.057	0.059
		36	30	20.19	20.09	20.19	17.69	17.59	17.69	0.059	0.057	0.059
		75	0	20.20	20.03	20.07	17.70	17.53	17.57	0.059	0.057	0.057
	64QAM	1	0	20.58	20.67	20.50	18.08	18.17	18.00	0.064	0.066	0.063
		1	37	20.44	20.19	20.44	17.94	17.69	17.94	0.062	0.059	0.062
		1	74	20.19	20.36	20.59	17.69	17.86	18.09	0.059	0.061	0.064
		36	0	19.15	19.12	19.13	16.65	16.62	16.63	0.046	0.046	0.046
		36	29	19.23	19.20	19.20	16.73	16.70	16.70	0.047	0.047	0.047
		36	30	19.23	19.08	19.21	16.73	16.58	16.71	0.047	0.045	0.047
		75	0	19.23	19.08	19.15	16.73	16.58	16.65	0.047	0.045	0.046



Test Report No.: PSU-NQN2504150110RF03

BW	Modulation	RB Size	RB Offset	Conducted power(dBm)			ERP/EIRP (dBm)			ERP/EIRP (W)		
				132072	132322	132572	132072	132322	132572	132072	132322	132572
				1720	1755	1770	1720	1755	1770	1720	1755	1770
20	QPSK	1	0	22.04	21.99	22.06	19.54	19.49	19.56	0.090	0.089	0.090
		1	49	22.18	22.00	21.99	19.68	19.50	19.49	0.093	0.089	0.089
		1	99	22.16	21.95	22.06	19.66	19.45	19.56	0.092	0.088	0.090
		50	0	21.25	21.07	21.09	18.75	18.57	18.59	0.075	0.072	0.072
		50	24	21.22	21.08	21.10	18.72	18.58	18.60	0.074	0.072	0.072
		50	50	21.21	21.13	21.18	18.71	18.63	18.68	0.074	0.073	0.074
		100	0	21.22	21.04	21.06	18.72	18.54	18.56	0.074	0.071	0.072
	16QAM	1	0	21.43	21.14	21.15	18.93	18.64	18.65	0.078	0.073	0.073
		1	49	21.23	21.83	21.12	18.73	19.33	18.62	0.075	0.086	0.073
		1	99	21.15	21.41	21.28	18.65	18.91	18.78	0.073	0.078	0.076
		50	0	20.26	20.04	20.17	17.76	17.54	17.67	0.060	0.057	0.058
		50	24	20.21	20.09	20.11	17.71	17.59	17.61	0.059	0.057	0.058
		50	50	20.15	20.09	20.14	17.65	17.59	17.64	0.058	0.057	0.058
		100	0	20.19	20.13	20.12	17.69	17.63	17.62	0.059	0.058	0.058
	64QAM	1	0	20.35	20.44	20.36	17.85	17.94	17.86	0.061	0.062	0.061
		1	49	20.26	20.60	20.25	17.76	18.10	17.75	0.060	0.065	0.060
		1	99	20.17	20.83	20.44	17.67	18.33	17.94	0.058	0.068	0.062
		50	0	19.25	19.14	19.14	16.75	16.64	16.64	0.047	0.046	0.046
		50	24	19.18	19.06	19.16	16.68	16.56	16.66	0.047	0.045	0.046
		50	50	19.14	19.07	19.11	16.64	16.57	16.61	0.046	0.045	0.046
		100	0	19.24	19.10	19.15	16.74	16.60	16.65	0.047	0.046	0.046

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

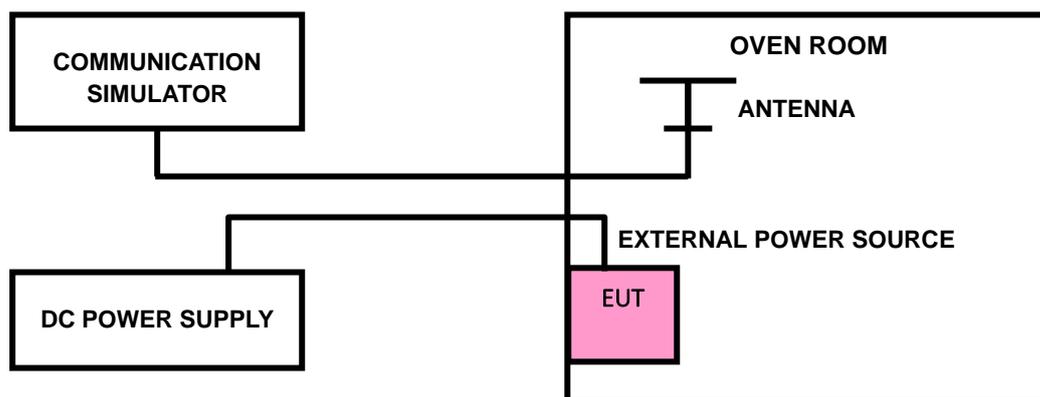
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.2.2 TEST PROCEDURE

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

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

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

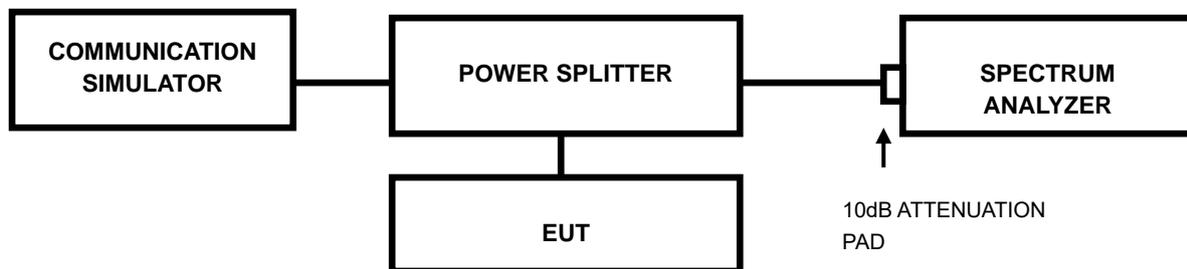
Please Refer to Appendix Of this test report.

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.4 TEST RESULTS

Please Refer to Appendix Of this test report.



3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC Part 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

According to FCC Part 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

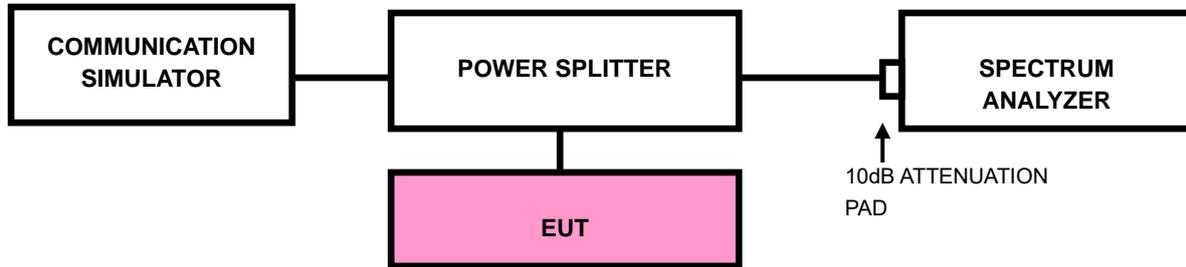
According to FCC Part 27.53 (n)(2)For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph is based on the use of measurement instrumentation employing a lresolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.



BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF03

3.4.2 TEST SETUP





Test Report No.: PSU-NQN2504150110RF03

3.4.3 TEST PROCEDURES

- a) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- b) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
- c) Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- d) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- e) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- f) Select the average power (RMS) display detector.
- g) Set the number of measurement points to ≥ 1001 .
- h) Use auto-coupled sweep time.
- i) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- j) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- k) Record the max trace plot into the test report.

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

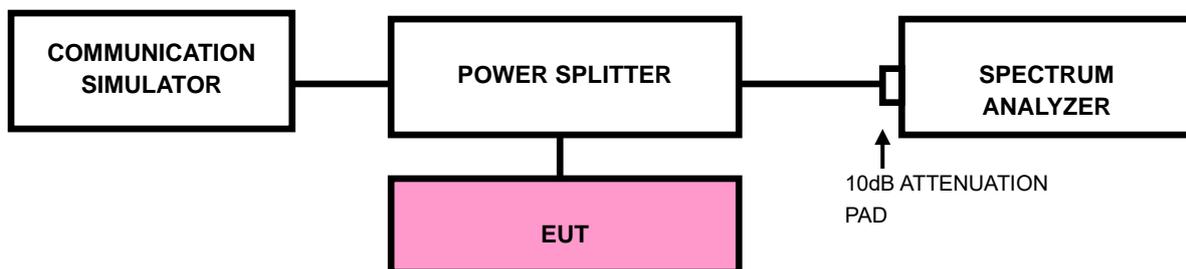
For: Band41

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP



3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix Of this test report.



3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

For: Band41

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission is equal to -25dBm .

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m 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.
- b. 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 a. Record the power level of S.G.
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

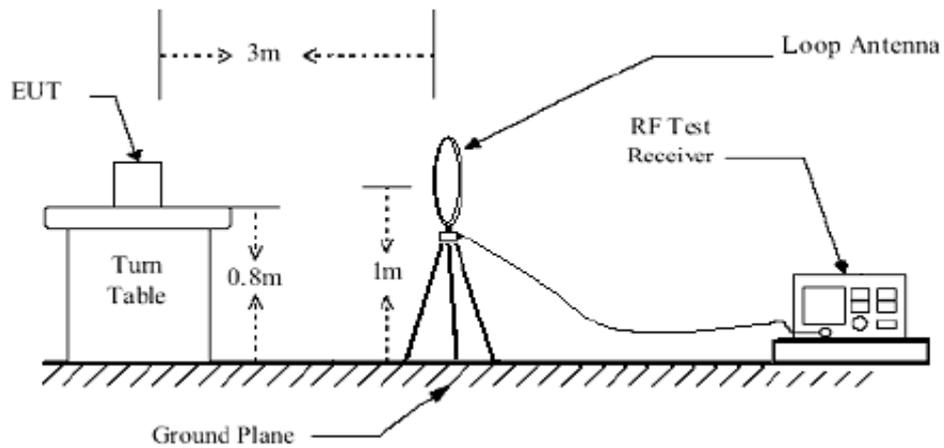
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

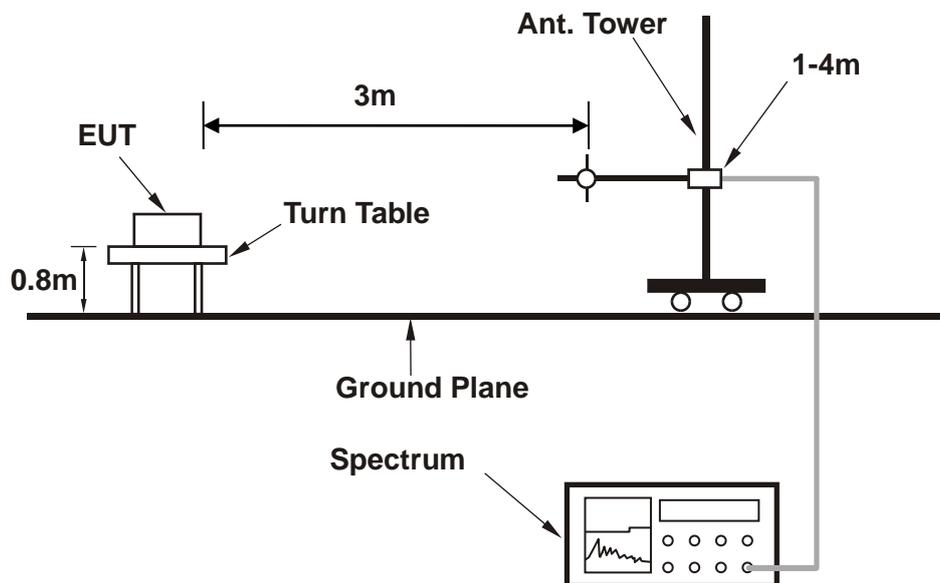
No deviation

3.6.4 TEST SETUP

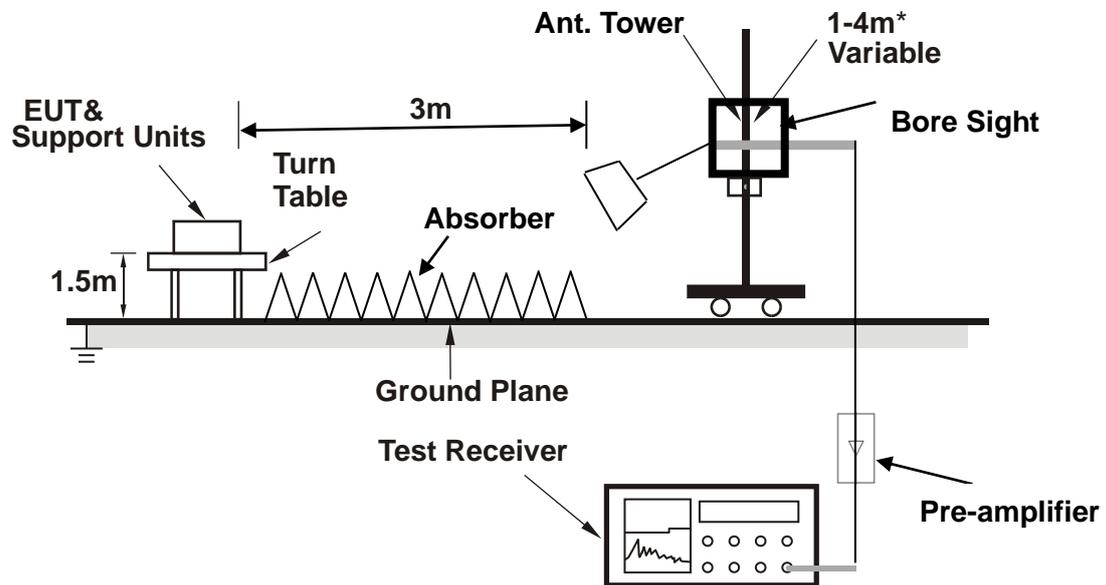
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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



3.6.5 TEST RESULTS

NOTE1 : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

NOTE2 : The measurement range is 30M to the tenth harmonic of the highest fundamental frequency, For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report

WCDMA band IV

Test result:

WCDMA Mode:

ANT2 Channel 1413

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1198.00	-80.70	-13	Vertical
1468.00	-77.37	-13	Vertical
2350.00	-79.25	-13	Vertical
3108.00	-82.90	-13	Vertical
3585.00	-80.94	-13	Vertical
4497.00	-88.74	-13	Vertical

LTE band 4

Test result:

ANT2 Channel 20175

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1145.60	-80.71	-13.00	Vertical
2419.29	-78.37	-13.00	Vertical
2658.08	-82.12	-13.00	Vertical
3120.00	-82.85	-13.00	Vertical
3597.00	-80.96	-13.00	Vertical
4677.00	-87.66	-13.00	Vertical



BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF03

LTE band 38

Test result:

ANT2 Channel 38000

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1187.60	-80.53	-25	Vertical
1470.40	-77.20	-25	Vertical
1777.00	-82.54	-25	Vertical
3147.00	-83.22	-25	Vertical
3552.00	-80.72	-25	Vertical
4635.00	-88.10	-25	Vertical

LTE band 41

Test result:

ANT2 Channel 40620

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1187.60	-80.53	-25	Vertical
1502.60	-76.68	-25	Vertical
1707.00	-80.93	-25	Horizontal
3069.00	-83.43	-25	Vertical
3552.00	-80.72	-25	Vertical
4683.00	-87.51	-25	Vertical

LTE band 66

Test result

ANT2 Channel : 132322

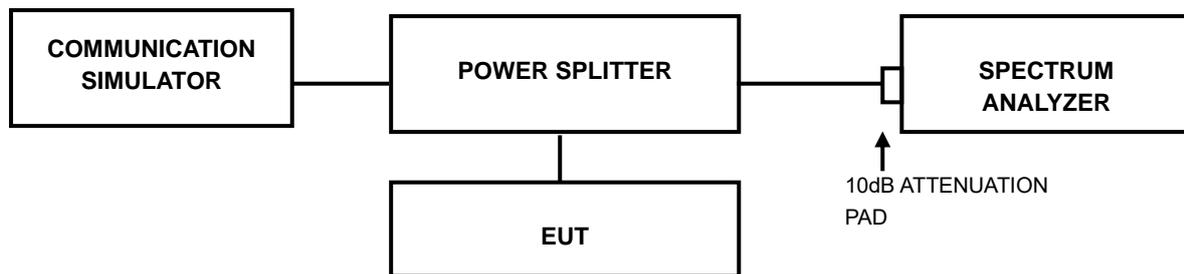
Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1142.80	-80.86	-13.00	Vertical
1366.80	-79.56	-13.00	Vertical
2674.61	-82.25	-13.00	Vertical
3132.00	-82.99	-13.00	Vertical
3552.00	-80.72	-13.00	Vertical
4452.00	-88.95	-13.00	Vertical

3.7 PEAK TO AVERAGE RATIO

3.7.1 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

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

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

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



Test Report No.: PSU-NQN2504150110RF03

4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



Test Report No.: PSU-NQN2504150110RF03

6 APPENDIX

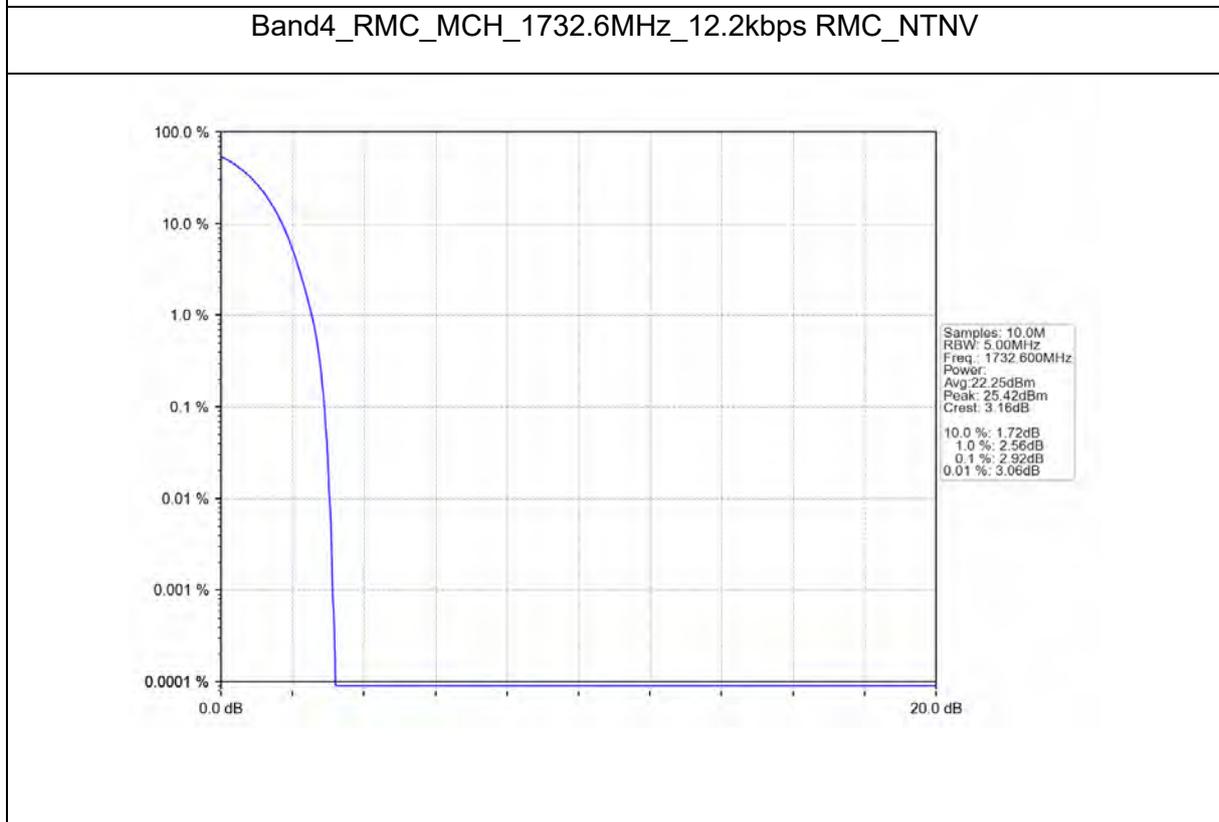
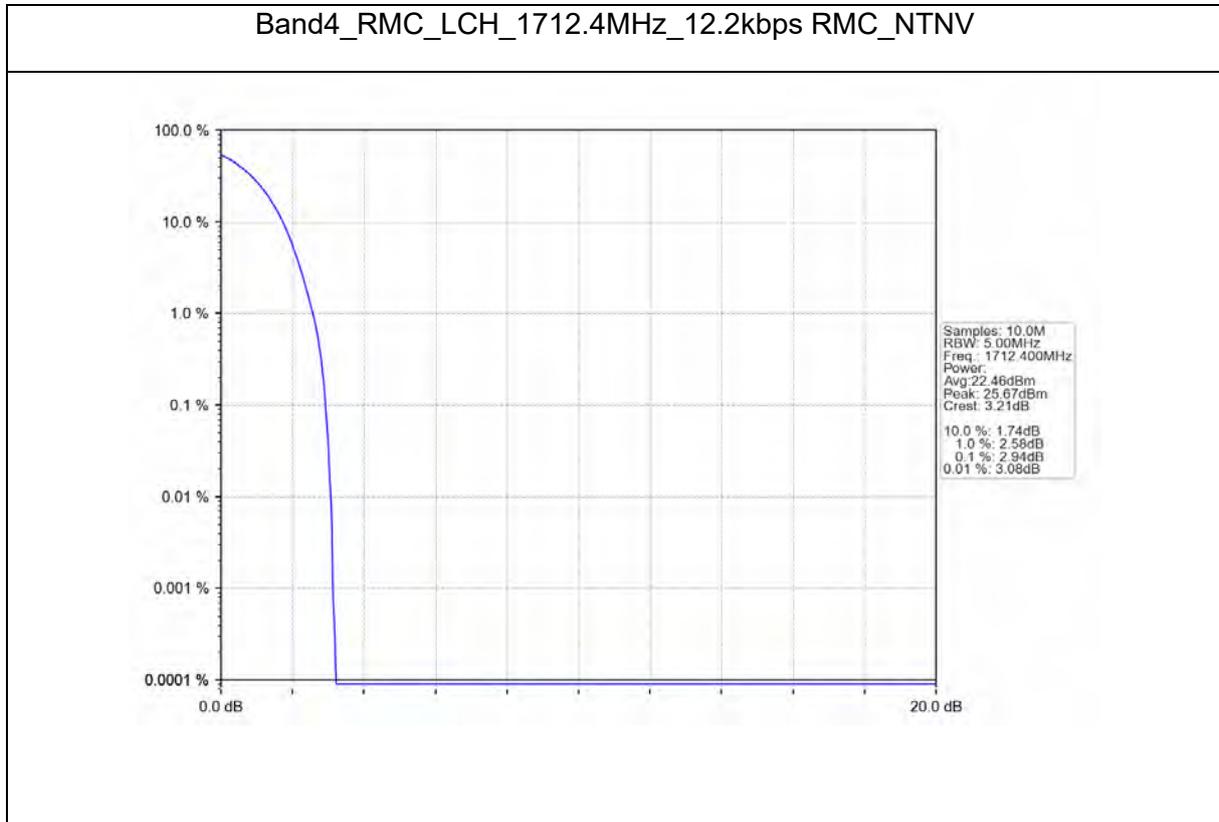
WCDMA IV

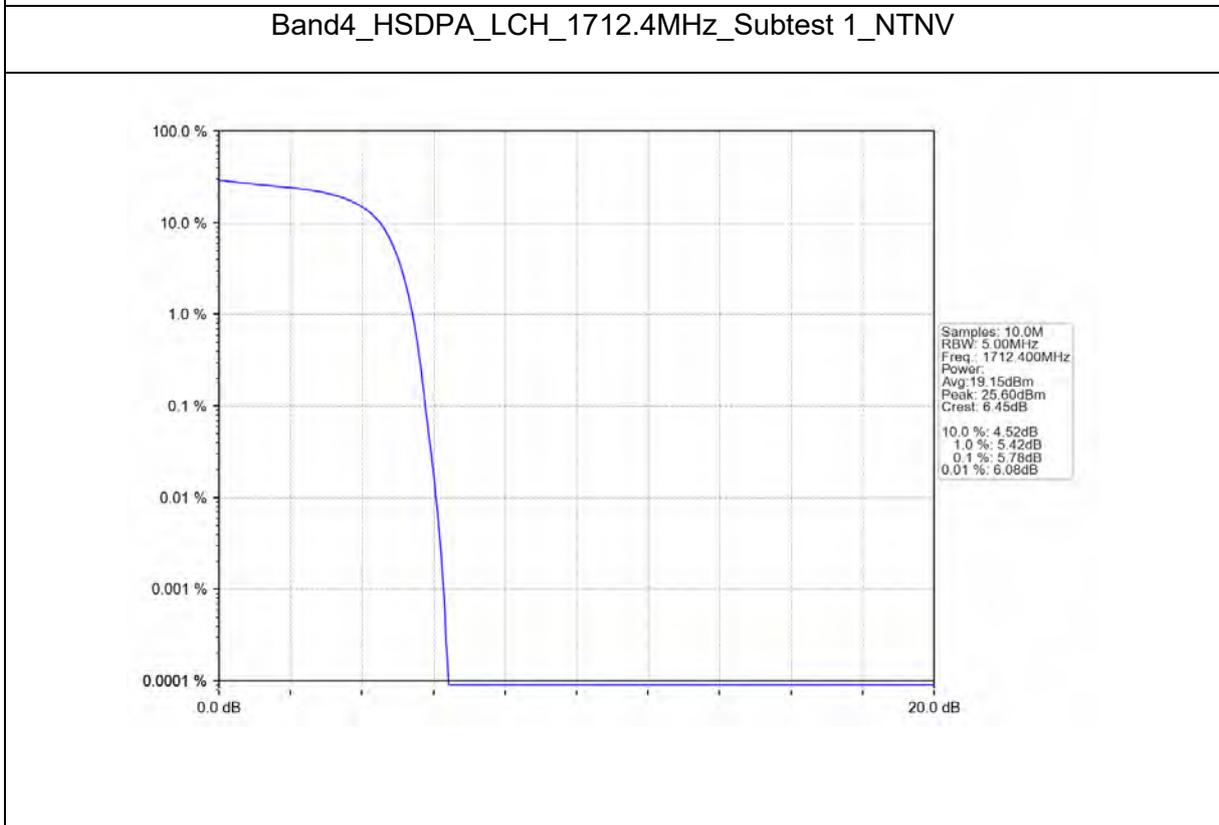
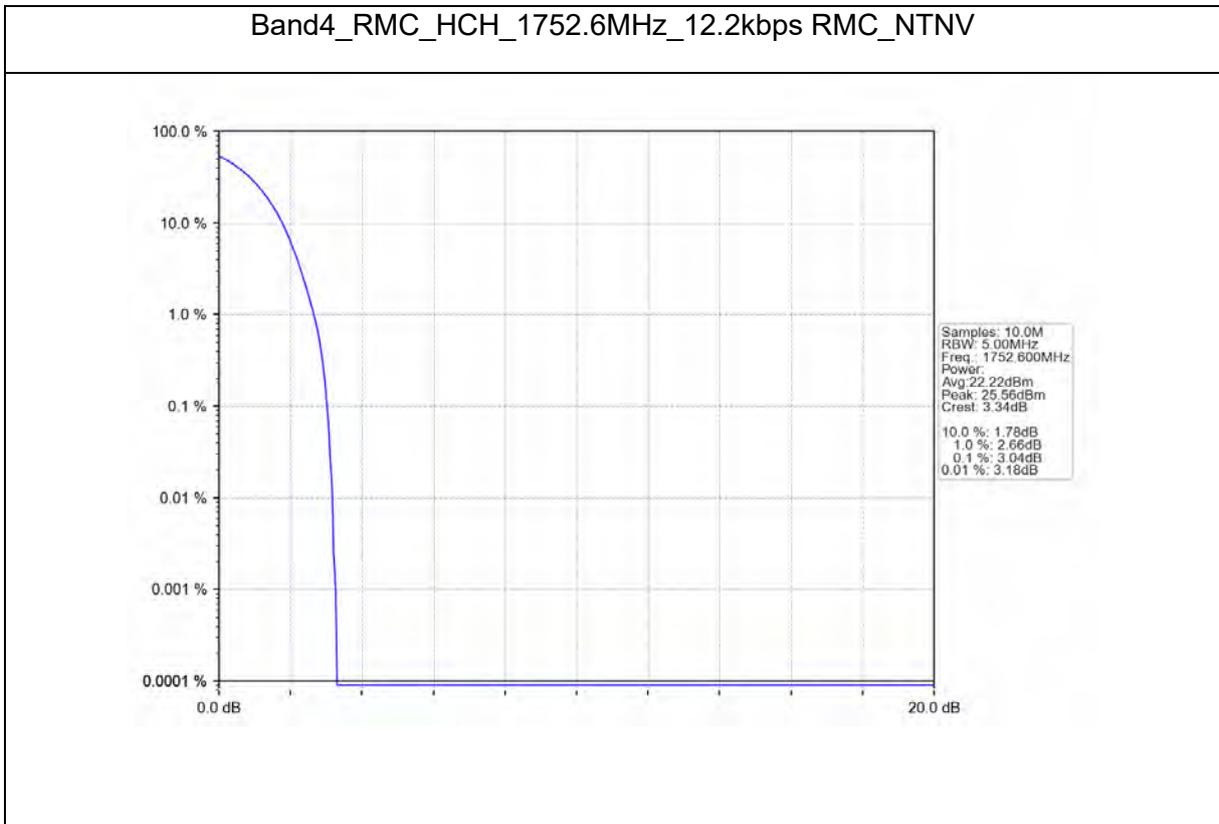
PEAK-TO-AVERAGE RATIO (CCDF)

Test Result

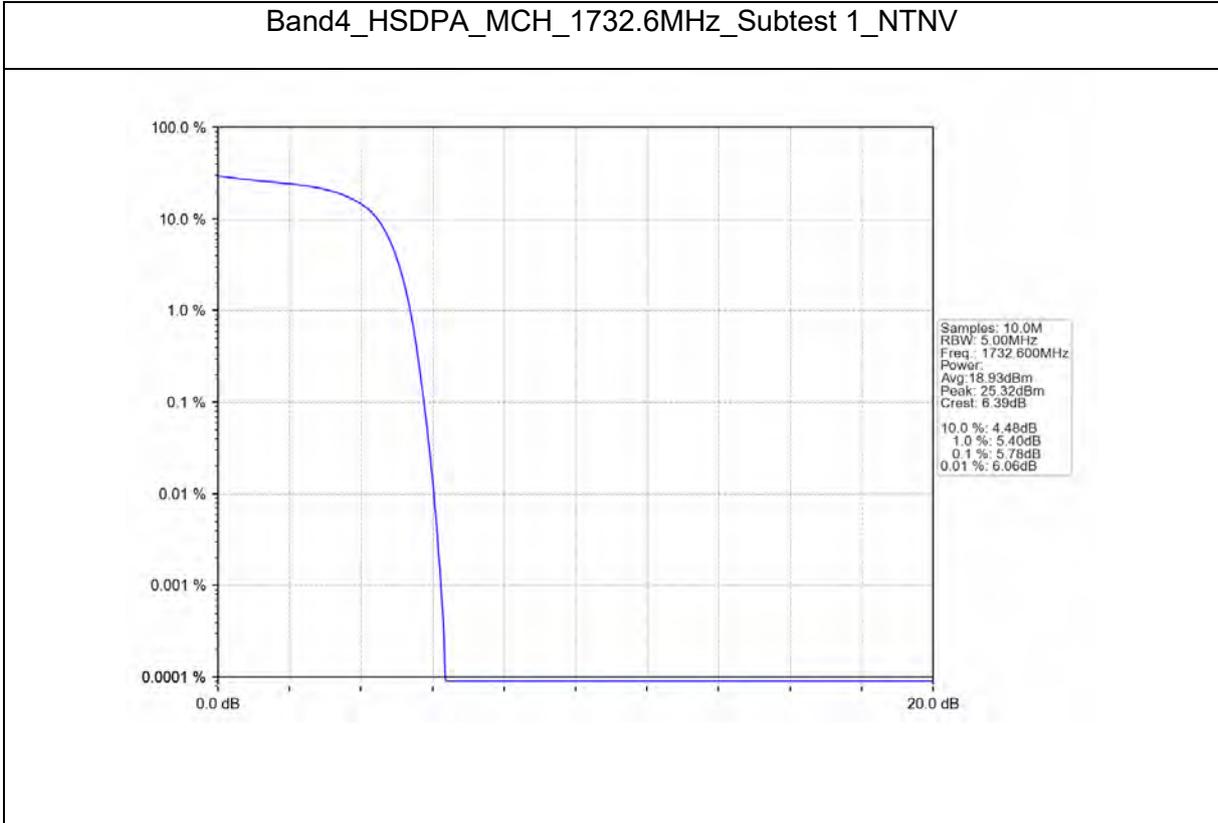
WCDMA IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.94	<=13	Pass
			1732.6	2.92	<=13	Pass
			1752.6	3.04	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.78	<=13	Pass
			1732.6	5.78	<=13	Pass
			1752.6	5.88	<=13	Pass
	HSUPA	Subtest 1	1712.4	6.46	<=13	Pass
			1732.6	6.42	<=13	Pass
			1752.6	6.58	<=13	Pass

Test Graphs

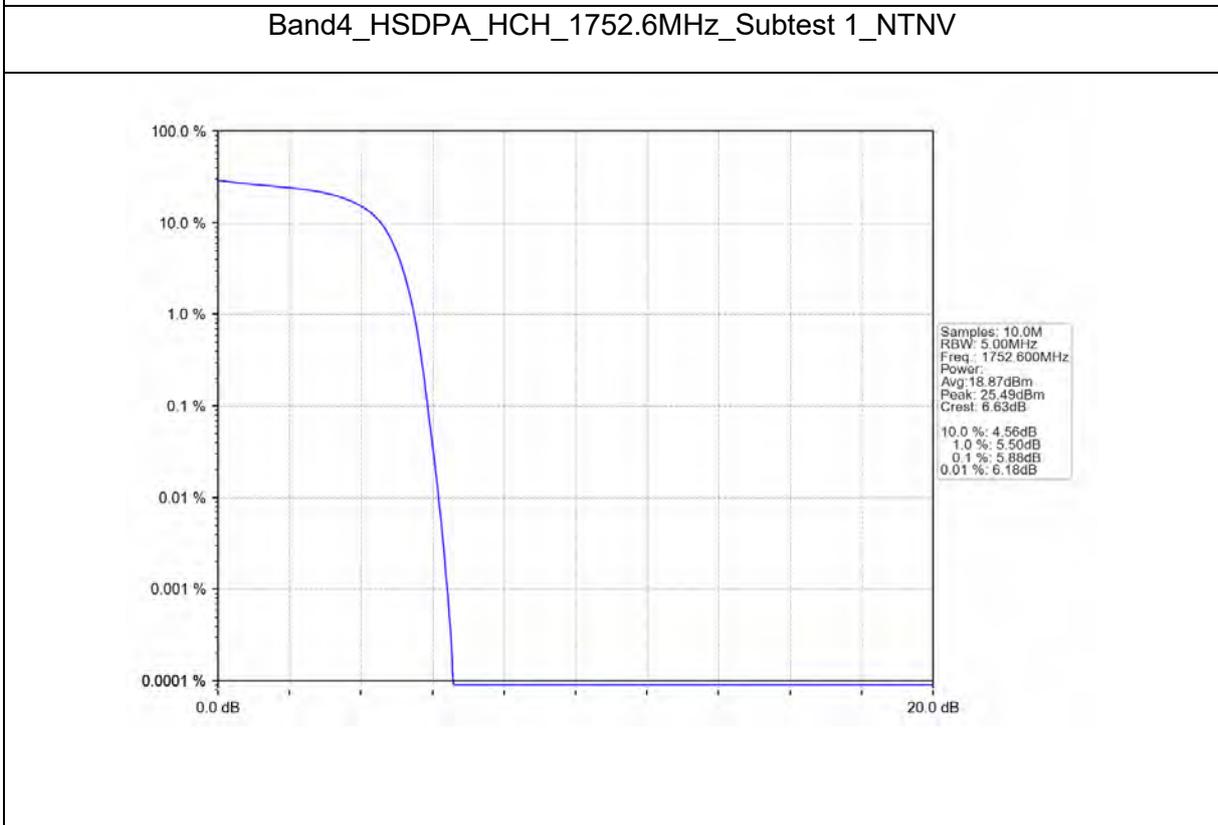




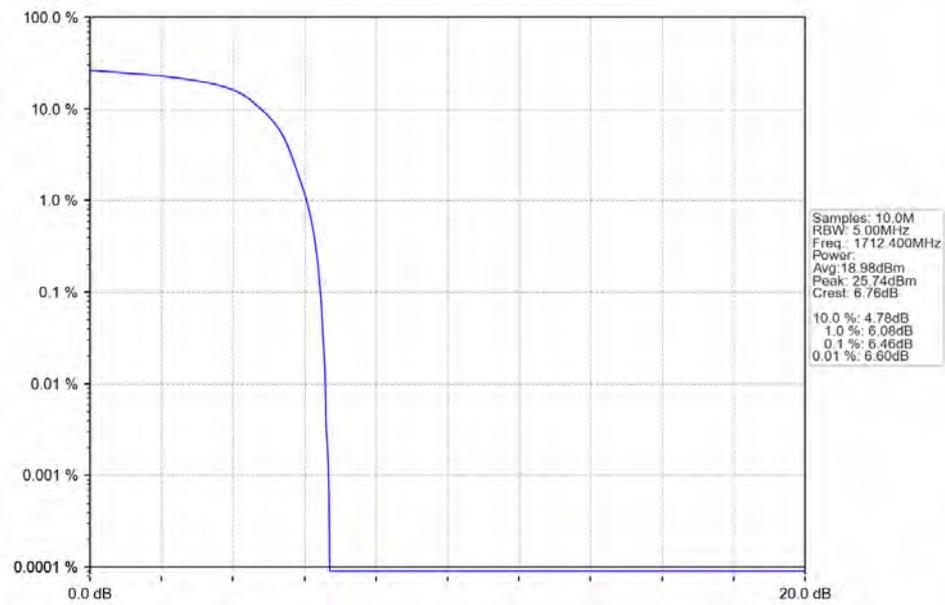
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



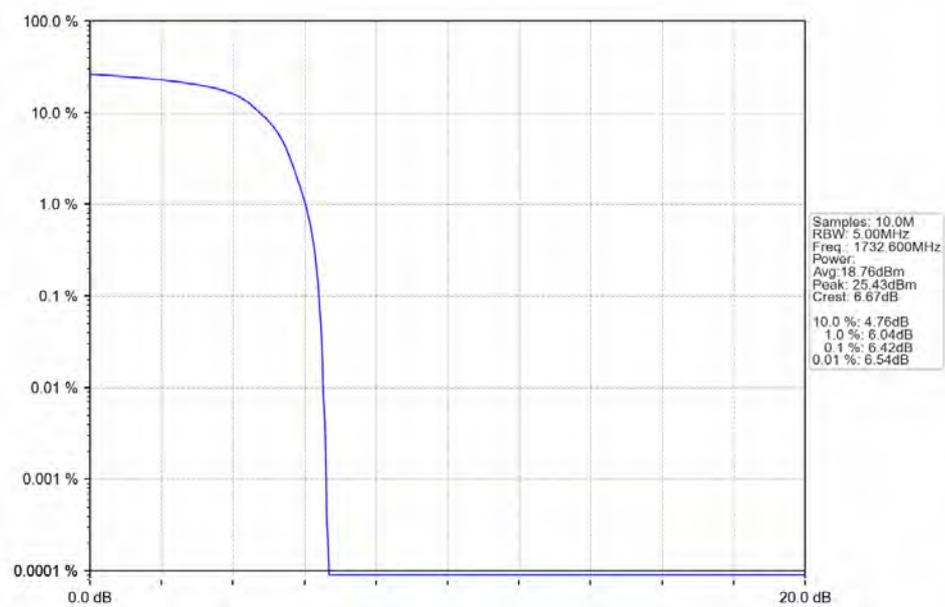
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV

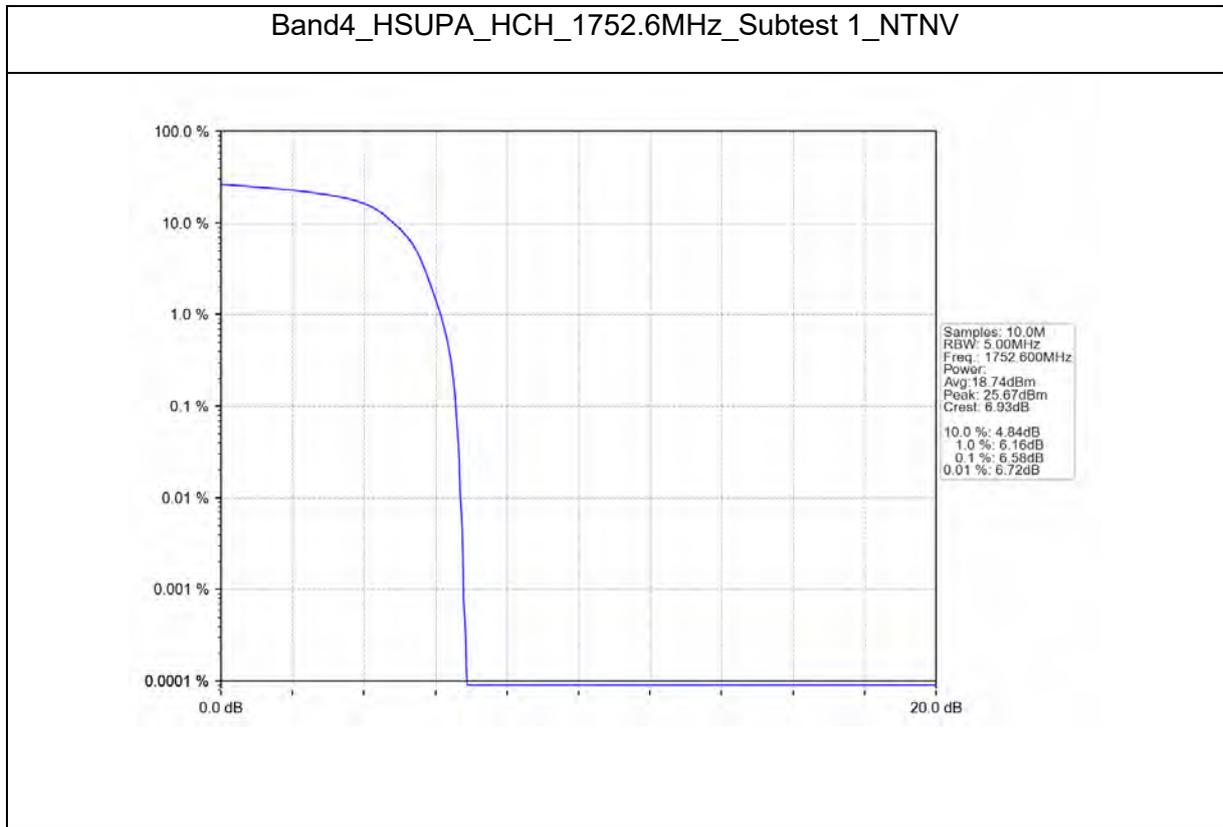


Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV





Test Report No.: PSU-NQN2504150110RF03





Test Report No.: PSU-NQN2504150110RF03

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

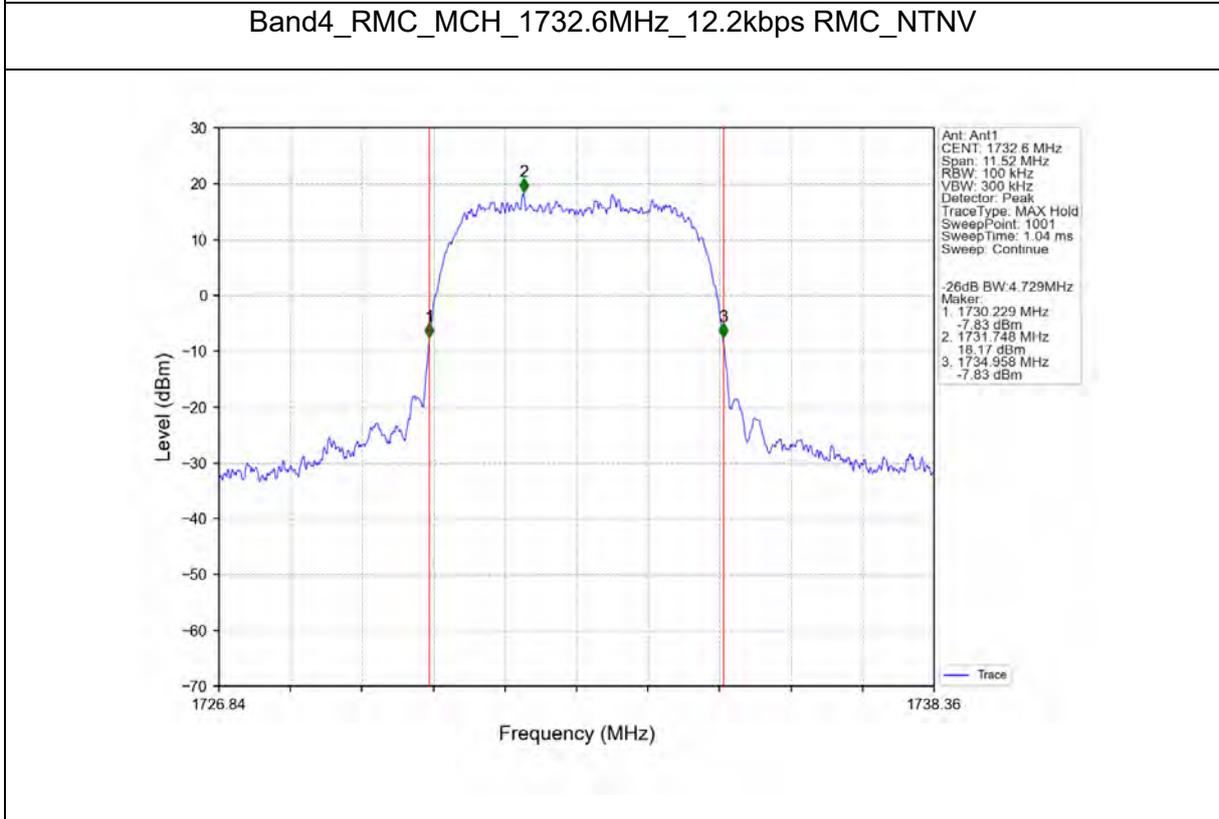
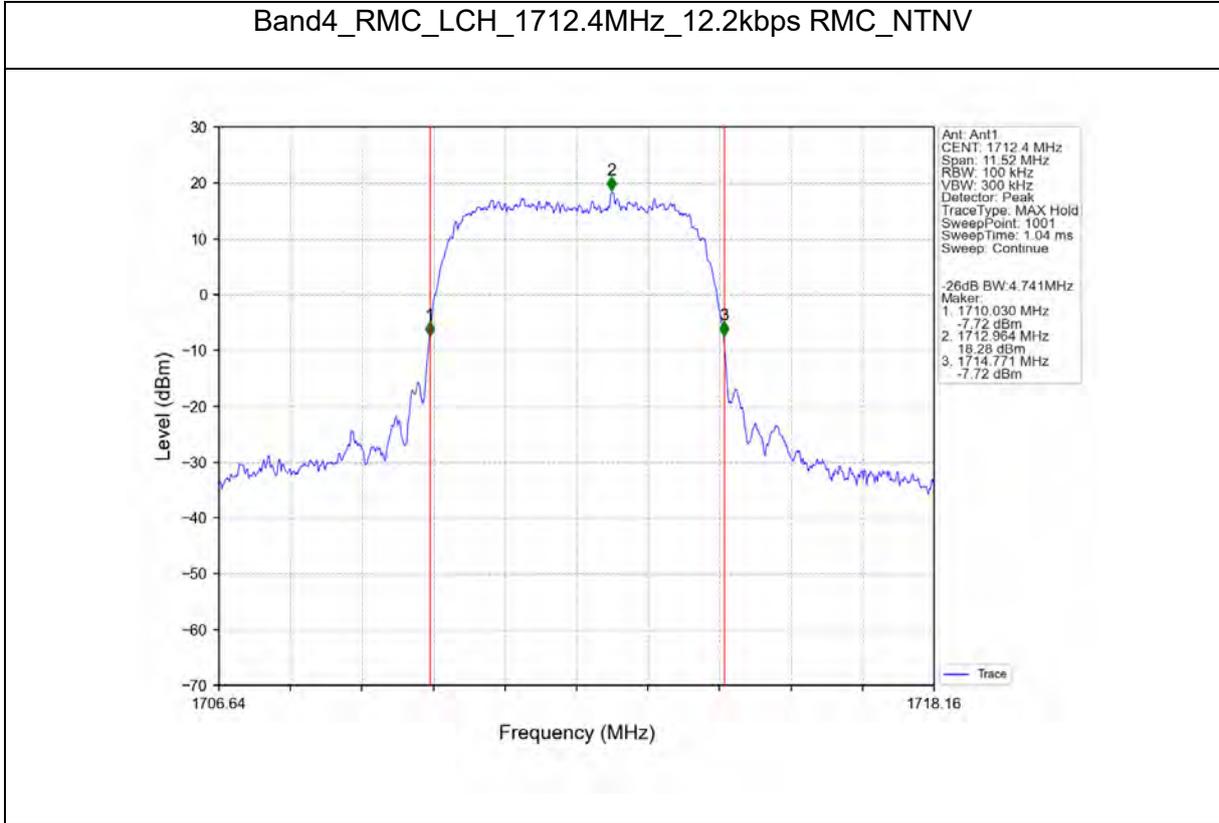
Test Result

WCDMA IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.158	/	Pass
			1732.6	4.152	/	Pass
			1752.6	4.149	/	Pass
	HSDPA	Subtest 1	1712.4	4.172	/	Pass
			1732.6	4.170	/	Pass
			1752.6	4.159	/	Pass
	HSUPA	Subtest 1	1712.4	4.175	/	Pass
			1732.6	4.168	/	Pass
			1752.6	4.175	/	Pass

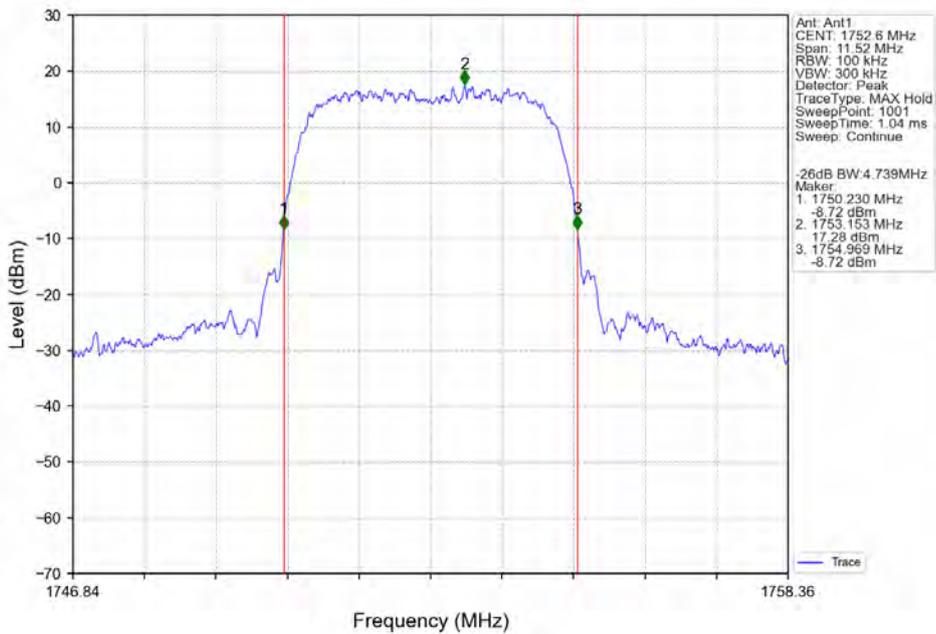
WCDMA IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.741	/	Pass
			1732.6	4.729	/	Pass
			1752.6	4.739	/	Pass
	HSDPA	Subtest 1	1712.4	4.738	/	Pass
			1732.6	4.737	/	Pass
			1752.6	4.738	/	Pass
	HSUPA	Subtest 1	1712.4	4.749	/	Pass
			1732.6	4.748	/	Pass
			1752.6	4.741	/	Pass

Test Graphs

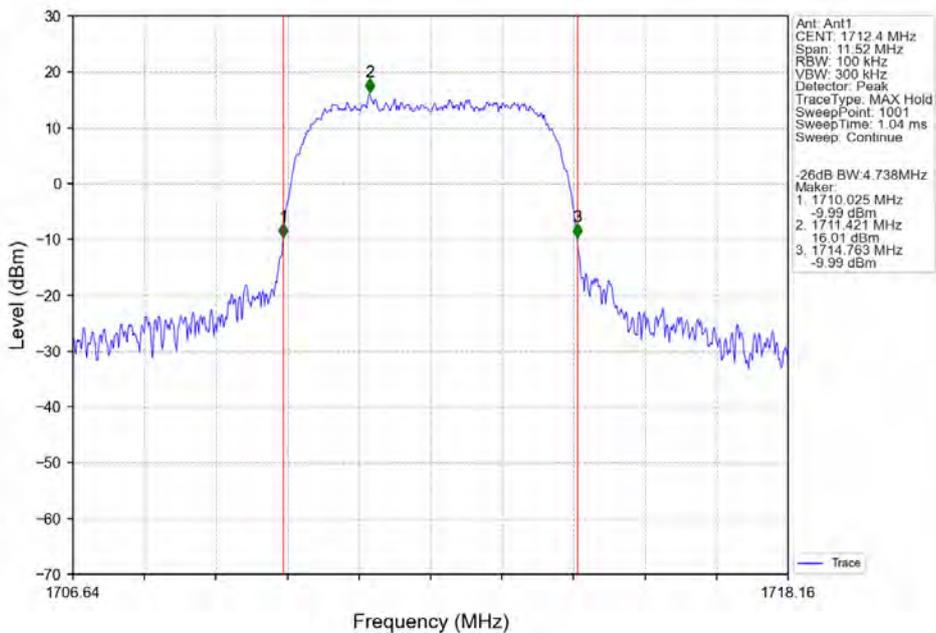
26dB Bandwidth



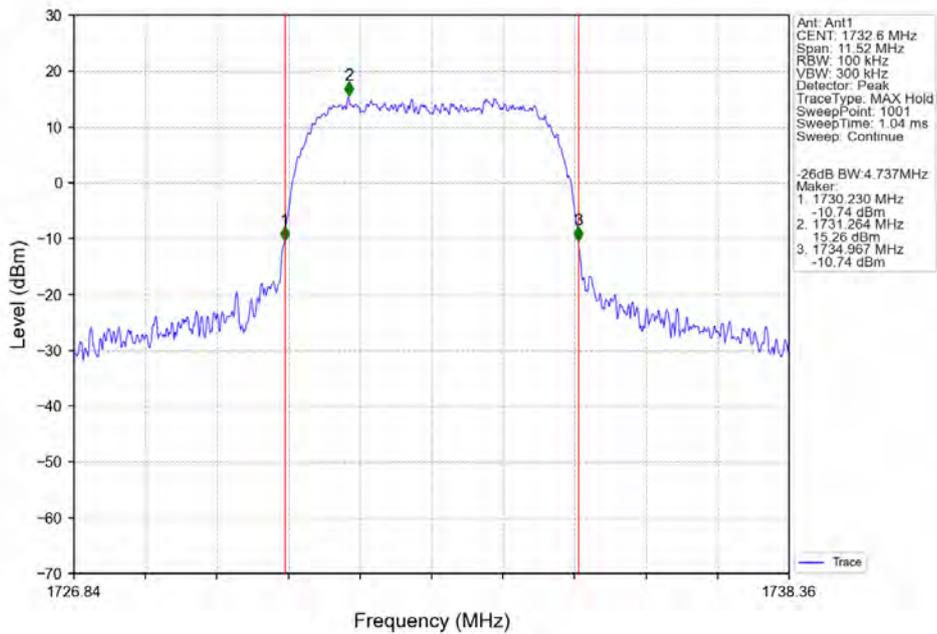
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



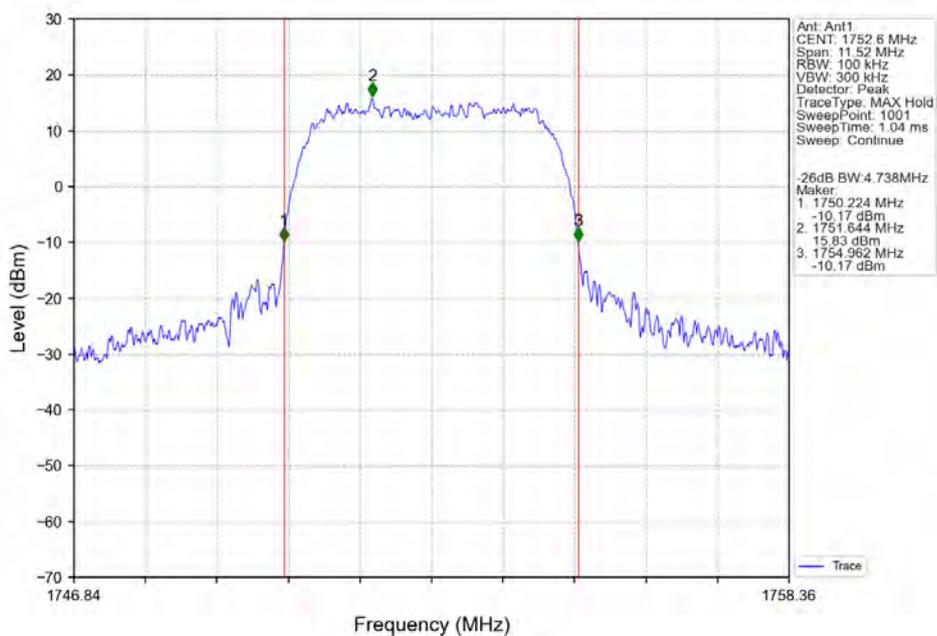
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



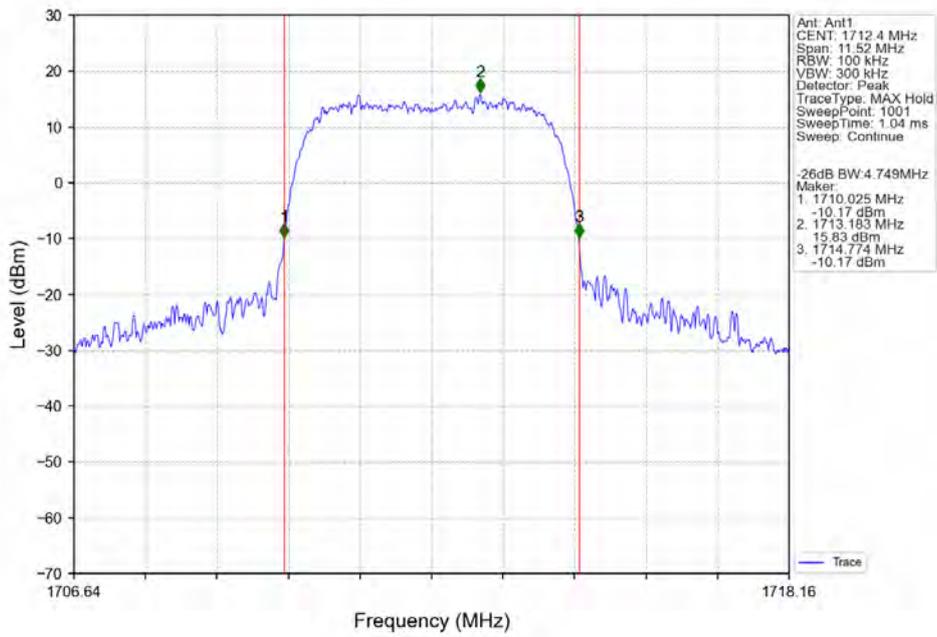
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



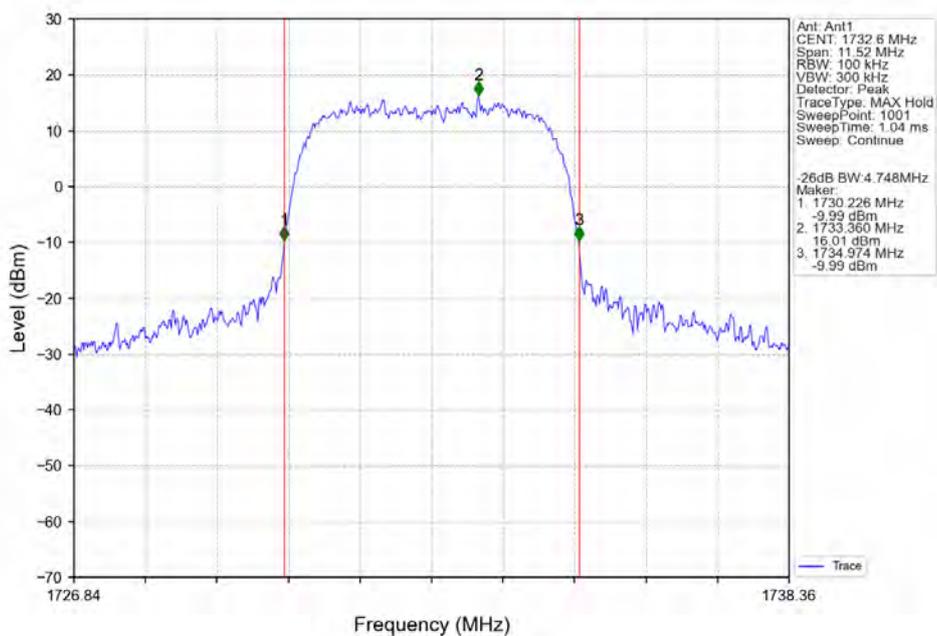
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



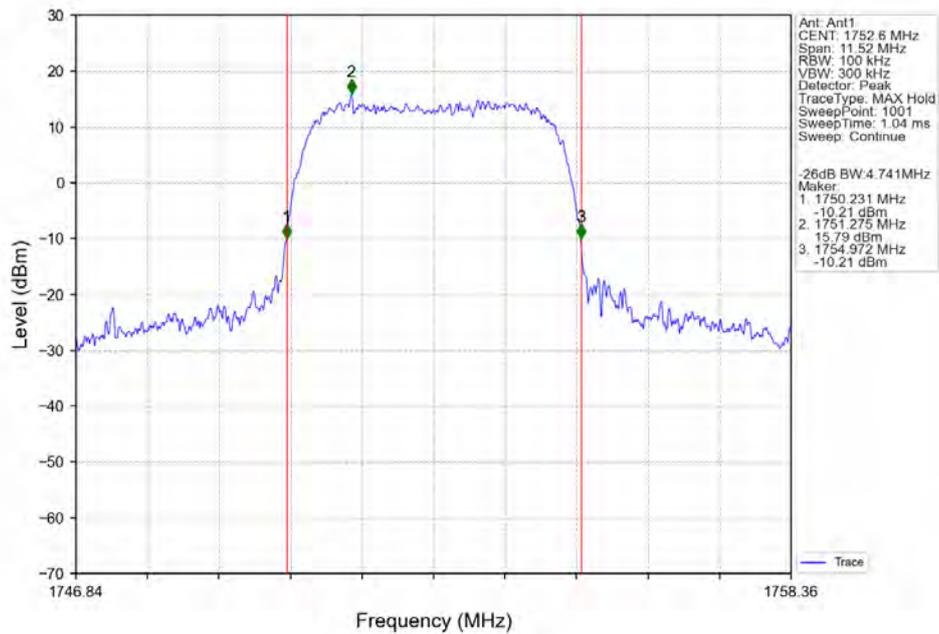
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV

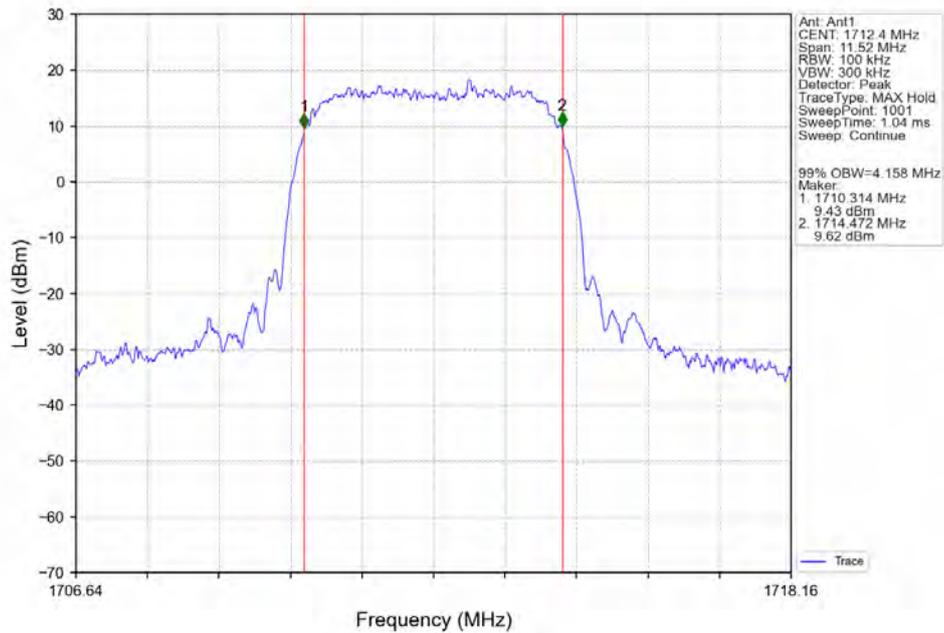


Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV

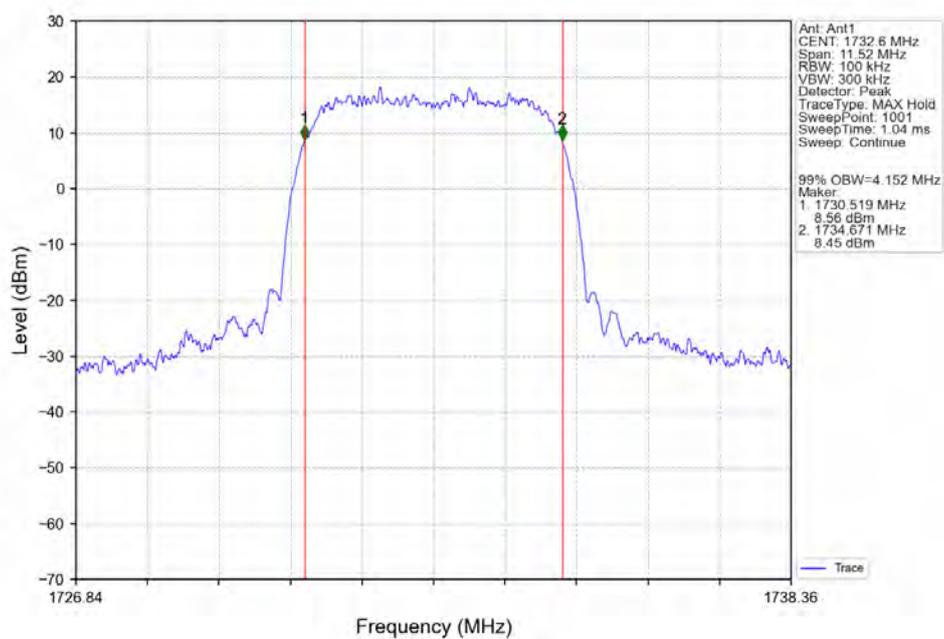


Occupied Bandwidth

Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV

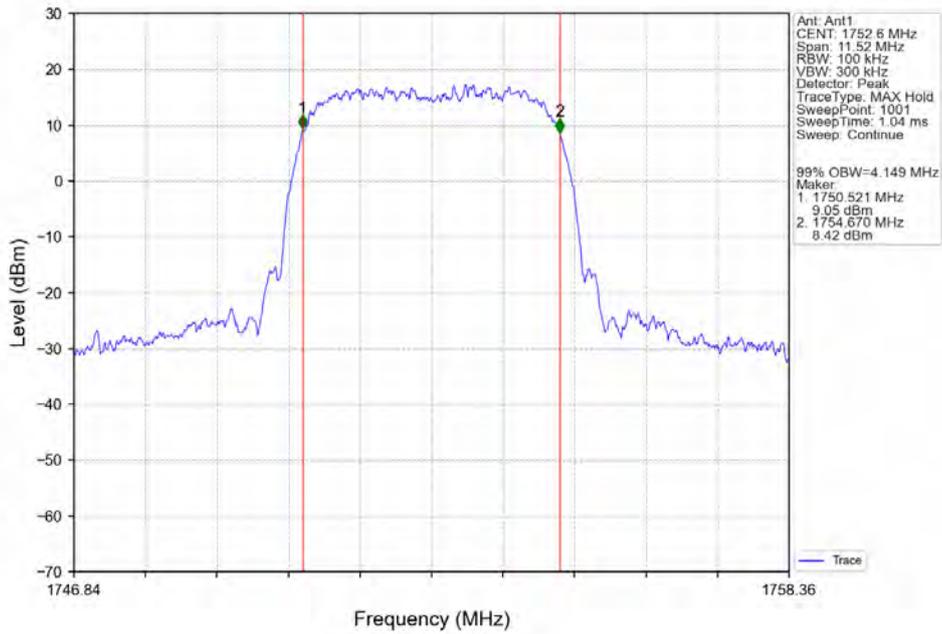




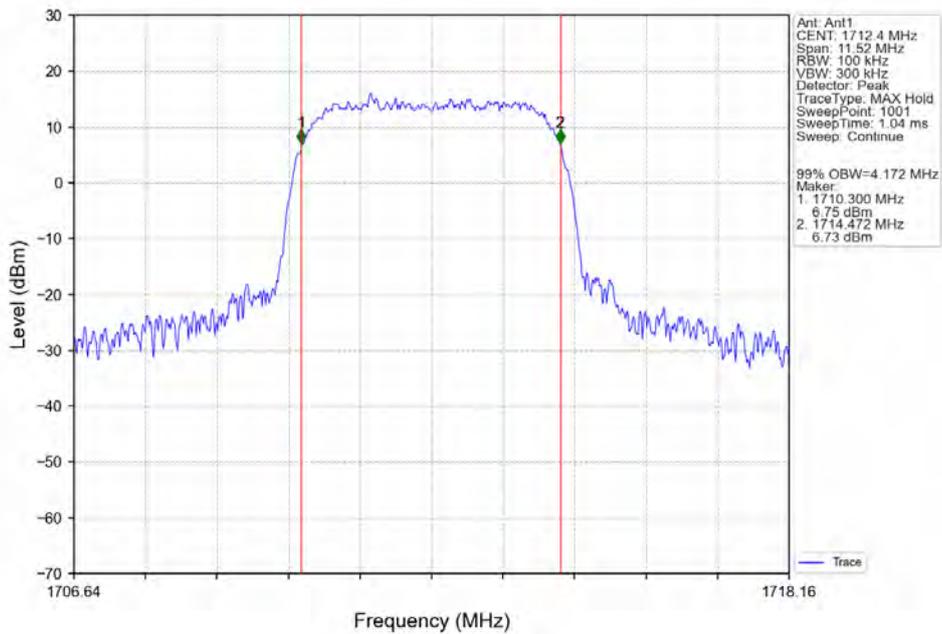
BUREAU
VERITAS

Test Report No.: PSU-NQN2504150110RF03

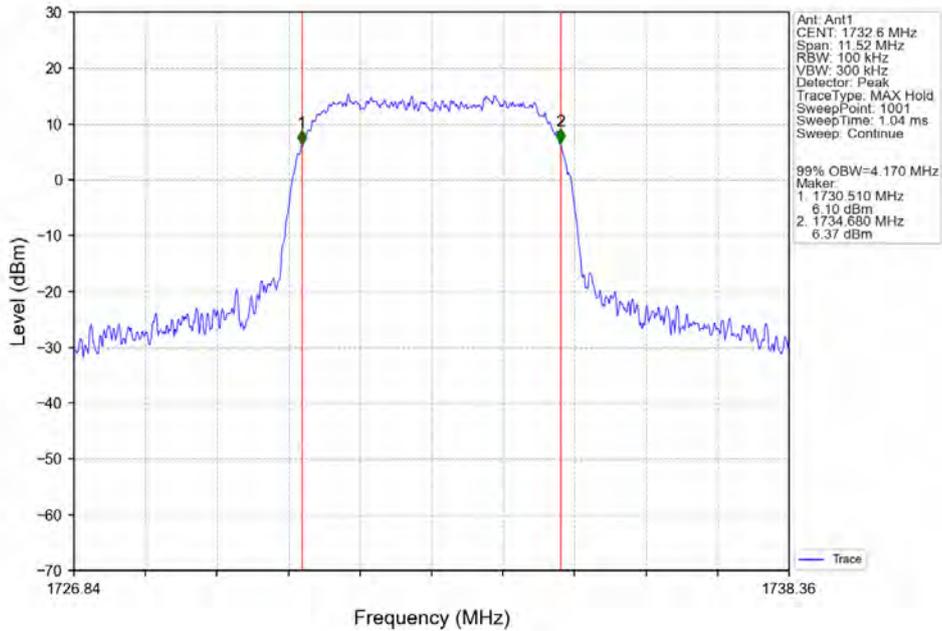
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



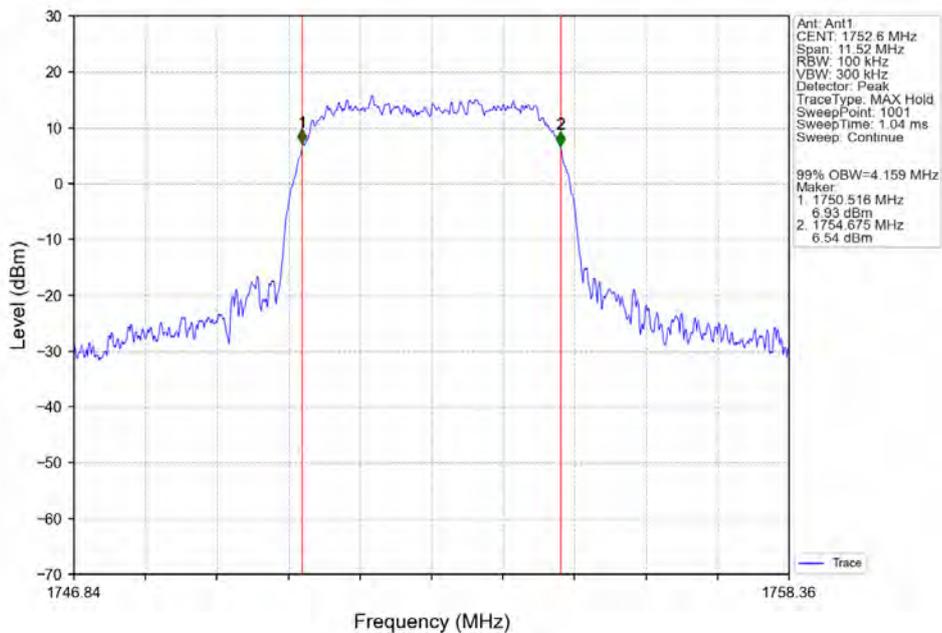
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



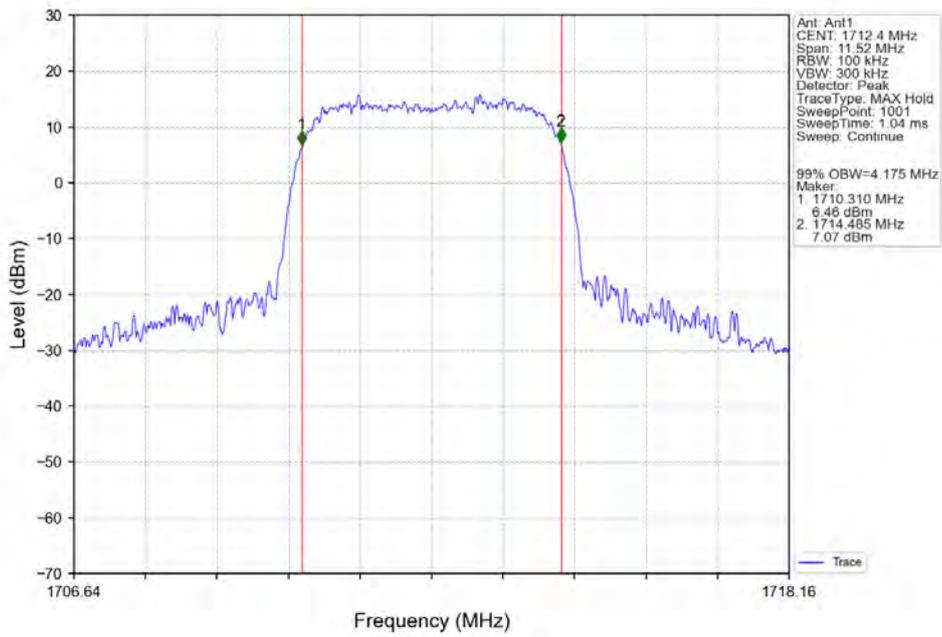
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



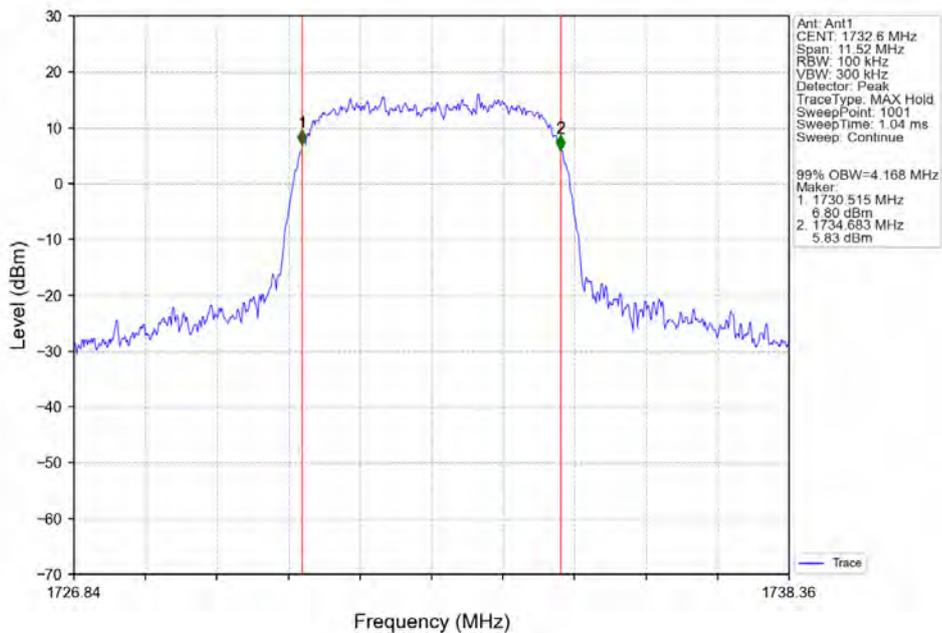
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



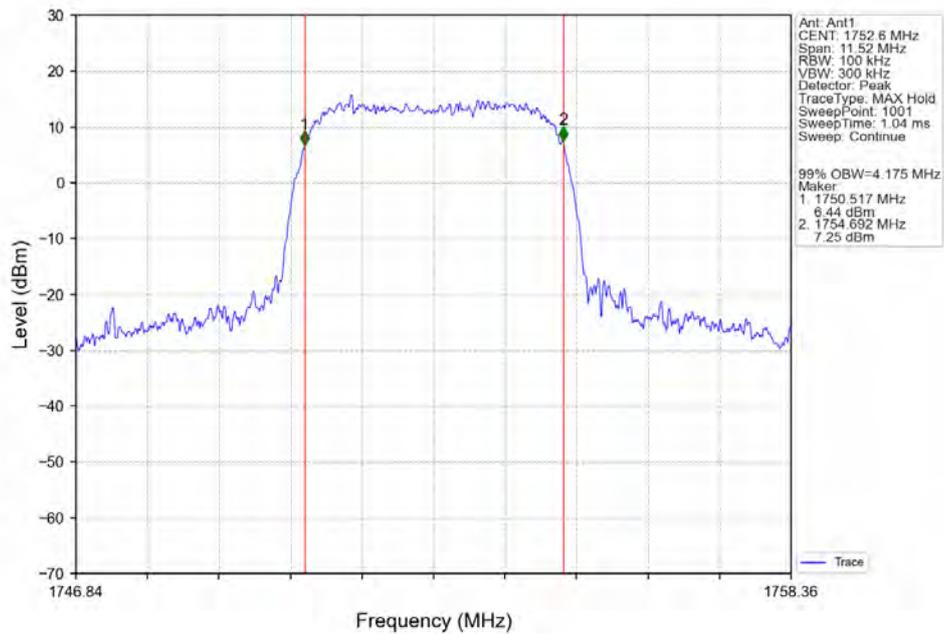
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV





Test Report No.: PSU-NQN2504150110RF03

BAND EDGE AND SPURIOUS EMISSION

Test Result

WCDMA IV						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	<=13	Pass
			1732.6	Refer To Test Graph	<=13	Pass
			1752.6	Refer To Test Graph	<=13	Pass
	HSDPA	Subtest 1	1712.4	Refer To Test Graph	<=13	Pass
			1732.6	Refer To Test Graph	<=13	Pass
			1752.6	Refer To Test Graph	<=13	Pass
	HSUPA	Subtest 1	1712.4	Refer To Test Graph	<=13	Pass
			1732.6	Refer To Test Graph	<=13	Pass
			1752.6	Refer To Test Graph	<=13	Pass