



FCC SAR TEST REPORT

Report No.: STS2106047H01

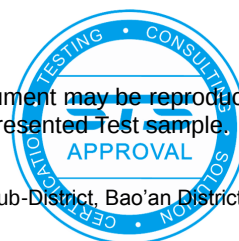
Issued for

JACS Solutions, Inc.

809 Pinnacle Drive, Suite R, Linthicum Heights, MD 21090

Product Name:	TD0301 LTE Wi-Fi Hotspot
Brand Name:	JACS
Model Name:	TD0301
Series Model:	N/A
FCC ID:	2AGCDJACSTD0301
Test Standard:	ANSI/IEEE Std. C95.1
	FCC 47 CFR Part 2 (2.1093)
	IEEE 1528: 2013
Max. Report SAR (1g):	Body: 1.054 W/kg

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Test Report Certification

Applicant's name : JACS Solutions, Inc.

Address..... : 809 Pinnacle Drive, Suite R, Linthicum Heights, MD 21090

Manufacture's Name : JACS Solutions, Inc.

Address..... : 809 Pinnacle Drive, Suite R, Linthicum Heights, MD 21090

Product description

Product name..... : TD0301 LTE Wi-Fi Hotspot

Brand name : JACS

Model name : TD0301

Series Model..... : N/A

Standards : ANSI/IEEE Std. C95.1-1992
FCC 47 CFR Part 2 (2.1093)
IEEE 1528: 2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test

Date (s) of performance of tests..... : 30 Apr. 2021 ~ 13 May 2021

Date of Issue : 21 June 2021

Test Result..... : **Pass**

Testing Engineer :

(Luffy He)

Technical Manager :

(Sean she)

Authorized Signatory :

(Vita Li)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	21 June 2021	STS2106047H01	ALL	Initial Issue





1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	TD0301 LTE Wi-Fi Hotspot		
Brand Name	JACS		
Model Name	TD0301		
Series Model	N/A		
Model Difference	N/A		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	V2.0		
Software Version	TD0301_JACS_V1.0.0		
Frequency Range	WCDMA Band II: 1850~1910MHz WCDMA Band IV : 1710~1755MHz WCDMA Band V : 824~849MHz LTE Band 2: 1850~1910MHz LTE Band 4 : 1710~1755MHz LTE Band 5: 824~849MHz LTE Band 12: 699-716MHz LTE Band 13: 777-787MHz LTE Band 14: 788-798MHz LTE Band 41: 2496-2690MHz LTE Band 66: 1710-1780MHz LTE Band 71: 663-698MHz 2.4G WLAN 802.11b/g/n20/n40: 2412 to 2462 MHz		
Max. Reported SAR(1g): (Limit:1.6W/kg)	Band	Mode	Body worn and hotspot (W/kg)
	PCB	WCDMA Band II	0.311
	PCB	WCDMA Band IV	0.791
	PCB	WCDMA Band V	0.974
	PCB	LTE Band 2	0.534
	PCB	LTE Band 4	0.861
	PCB	LTE Band 5	0.652
	PCB	LTE Band 12	0.440
	PCB	LTE Band 13	0.791
	PCB	LTE Band 14	0.678
	PCB	LTE Band 41	0.744
	PCB	LTE Band 66	1.054
	PCB	LTE Band 71	0.604



	DTS	2.4GHz WLAN ANT 1	0.062
	DTS	2.4GHz WLAN ANT 2	0.023
	DTS	2.4GHz WLAN ANT 1+2	0.039
FCC Equipment Class	PCS Licensed Transmitter(PCB) Unlicensed National Information Infrastructure TX (NII) Digital Transmission System (DTS)		
Battery	Rated Voltage:3.7V Charge Limit Voltage:4.2V Capacity: 2000mAh		
Operating Mode	WCDMA: RMC LTE: QPSK, 16QAM WLAN: 802.11 a/b/g/n20/n40		
Antenna Specification	PIFA Antenna		
Hotspot Mode	Support		
DTM Mode	Not Support		
Note: 1. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power			





1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01





2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
9	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
10	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

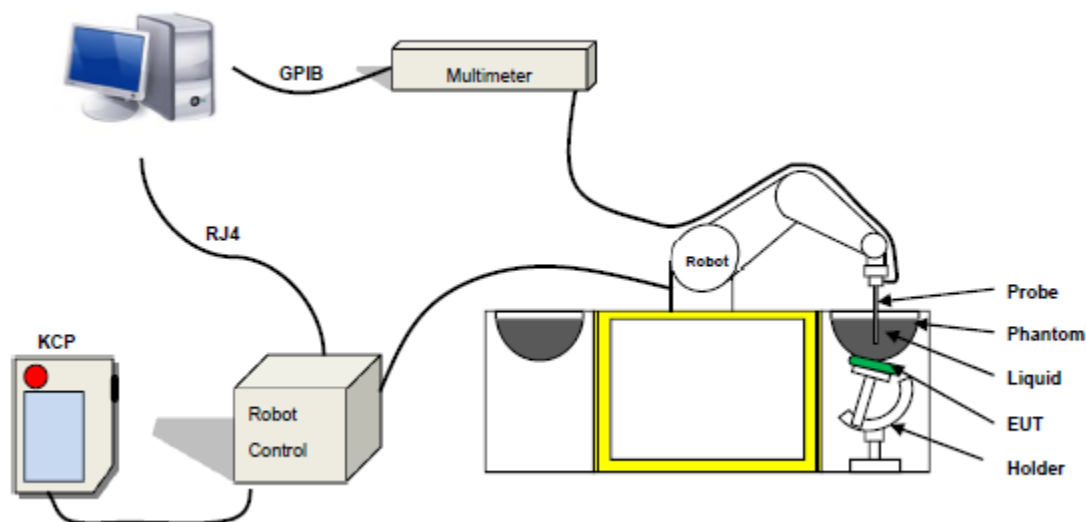
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,
ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The Open SAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 07/21 EPG0352 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 450 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Dipole

3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

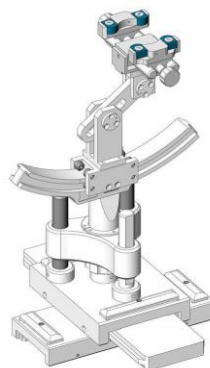


Figure-SN 32/14 SAM115



Figure-SN 32/14 SAM116

3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Head Tissue

Frequency (MHz)	cellulose %	DGBE %	HEC %	NaCl %	Preventol %	Sugar %	X100 %	Water %	Conductivity σ	Permittivity ϵ_r
750	0.2	/	/	1.4	0.2	57.0	/	41.1	0.89	41.9
835	0.2	/	/	1.4	0.2	57.9	/	40.3	0.90	41.5
900	0.2	/	/	1.4	0.2	57.9	/	40.3	0.97	41.5
1800	/	44.5	/	0.3	/	/	30.45	55.2	1.4	40.0
1900	/	44.5	/	0.3	/	/	30.45	55.2	1.4	40.0
2000	/	44.5	/	0.3	/	/	/	55.2	1.4	40.0
2450	/	44.9	/	0.1	/	/	/	55.0	1.80	39.2
2600	/	45.0	/	0.1	/	/	/	54.9	1.96	39.0

Body Tissue

Frequency (MHz)	cellulose %	DGBE %	HEC %	NaCl %	Preventol %	Sugar %	X100 %	Water %	Conductivity σ	Permittivity ϵ_r
750	0.2	/	/	0.9	0.1	47.2	/	51.7	0.96	55.5
835	0.2	/	/	0.9	0.1	48.2	/	50.8	0.97	55.2
900	0.2	/	/	0.9	0.1	48.2	/	50.8	1.05	55.0
1800	/	29.4	/	0.4	/	/	30.45	70.2	1.52	53.3
1900	/	29.4	/	0.4	/	/	30.45	70.2	1.52	53.3
2000	/	29.4	/	0.4	/	/	/	70.2	1.52	53.3
2450	/	31.3	/	0.1	/	/	/	68.6	1.95	52.7
2600	/	31.7	/	0.1	/	/	/	68.2	2.16	52.3

Tissue dielectric parameters for head and body phantoms				
Frequency	ϵ_r		σ S/m	
	Head	Body	Head	Body
300	45.3	58.2	0.87	0.92
450	43.5	56.7	0.87	0.94
900	41.5	55.0	0.97	1.05
1450	40.5	54.0	1.20	1.30
1800	40.0	53.3	1.40	1.52
2450	39.2	52.7	1.80	1.95
3000	38.5	52.0	2.40	2.73
5800	35.3	48.2	5.27	6.00

**LIQUID MEASUREMENT RESULTS**

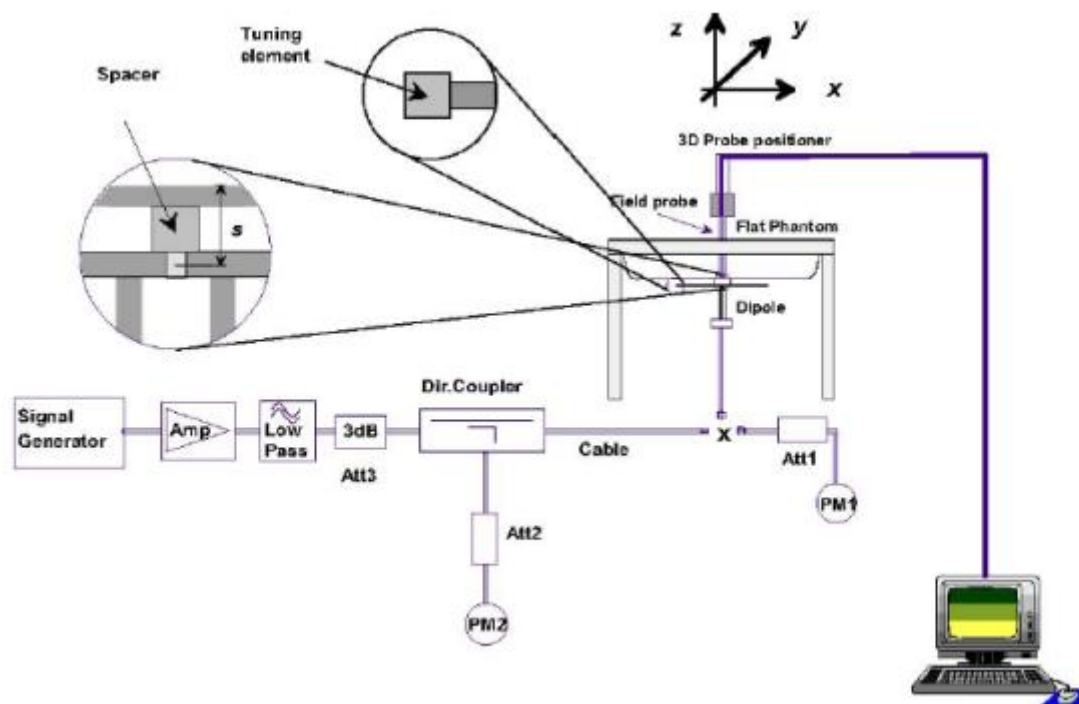
Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency	Temp. [°C]					
2021-06-10	22.5	48	680.5 MHz	22.3	Permittivity	42.27	41.96	-0.73	±5
					Conductivity	0.89	0.92	3.37	±5
2021-06-10	22.5	48	704 MHz	22.3	Permittivity	42.15	42.13	-0.05	±5
					Conductivity	0.89	0.89	0.00	±5
2021-06-10	22.5	48	750 MHz	22.3	Permittivity	41.9	41.65	-0.60	±5
					Conductivity	0.89	0.87	-2.25	±5
2021-06-10	22.5	48	782 MHz	22.3	Permittivity	41.75	40.78	-2.32	±5
					Conductivity	0.89	0.87	-2.25	±5
2021-06-10	22.5	48	793 MHz	22.3	Permittivity	41.7	40.80	-2.16	±5
					Conductivity	0.9	0.87	-3.33	±5
2021-06-10	22.5	48	829 MHz	22.3	Permittivity	41.53	43.38	4.45	±5
					Conductivity	0.9	0.94	4.44	±5
2021-06-10	22.5	48	826.6 MHz	22.3	Permittivity	41.54	40.26	-3.08	±5
					Conductivity	0.9	0.89	-1.11	±5
2021-06-10	22.5	48	846.4 MHz	22.3	Permittivity	41.5	42.81	3.16	±5
					Conductivity	0.9	0.91	1.11	±5
2021-06-10	22.5	48	835 MHz	22.3	Permittivity	41.5	41.98	1.16	±5
					Conductivity	0.9	0.92	2.22	±5
2021-06-11	23.2	50	1732.5 MHz	22.9	Permittivity	40.1	41.58	3.69	±5
					Conductivity	1.36	1.35	-0.74	±5
2021-06-11	23.2	50	1720 MHz	22.9	Permittivity	40.11	41.51	3.49	±5
					Conductivity	1.35	1.34	-0.74	±5
2021-06-11	23.2	50	1745 MHz	22.9	Permittivity	40.08	38.97	-2.77	±5
					Conductivity	1.37	1.38	0.73	±5
2021-06-11	23.2	50	1752.4 MHz	22.9	Permittivity	40.07	40.52	1.12	±5
					Conductivity	1.37	1.39	1.46	±5
2021-06-11	23.2	50	1800 MHz	22.9	Permittivity	40	40.28	0.70	±5
					Conductivity	1.4	1.41	0.71	±5
2021-06-15	23.5	51	1900 MHz	23.2	Permittivity	40	38.63	-3.42	±5
					Conductivity	1.4	1.40	0.00	±5
2021-06-15	23.5	51	1907.4 MHz	23.2	Permittivity	40	40.26	0.65	±5
					Conductivity	1.4	1.41	0.71	±5
2021-06-18	23.1	50	2437 MHz	22.8	Permittivity	39.22	38.68	-1.38	±5
					Conductivity	1.79	1.78	-0.56	±5
2021-06-18	23.1	50	2450 MHz	22.8	Permittivity	39.2	39.12	-0.20	±5
					Conductivity	1.8	1.78	-1.11	±5
2021-06-18	23.1	50	2506MHz	22.8	Permittivity	39.12	38.07	-2.68	±5
					Conductivity	1.84	1.84	0.00	±5
2021-06-18	23.1	50	2593 MHz	22.8	Permittivity	38.99	39.39	1.03	±5
					Conductivity	1.9	1.91	0.53	±5
2021-06-18	23.1	50	2600 MHz	22.8	Permittivity	39	39.72	1.85	±5
					Conductivity	1.96	1.99	1.53	±5

5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.



5.2 Validation Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of 10 %.

Date	Freq. (MHz)	Power (mW)	Tested Value (W/Kg)	Normalized SAR (W/kg)	Target SAR 1g(W/kg)	Tolerance (%)	Limit (%)
2021-06-10	750	100	0.857	8.57	8.49	0.95	10
2021-06-10	835	100	0.944	9.44	9.56	-1.30	10
2021-06-11	1800	100	3.986	39.86	38.40	3.81	10
2021-06-15	1900	100	4.057	40.57	39.70	2.18	10
2021-06-18	2450	100	5.363	53.63	52.40	2.34	10
2021-06-18	2600	100	5.524	55.24	55.30	-0.11	10

Note:

1. The tolerance limit of System validation $\pm 10\%$.
2. The dipole input power (forward power) was 100 mW.
3. The results are normalized to 1 W input power.



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

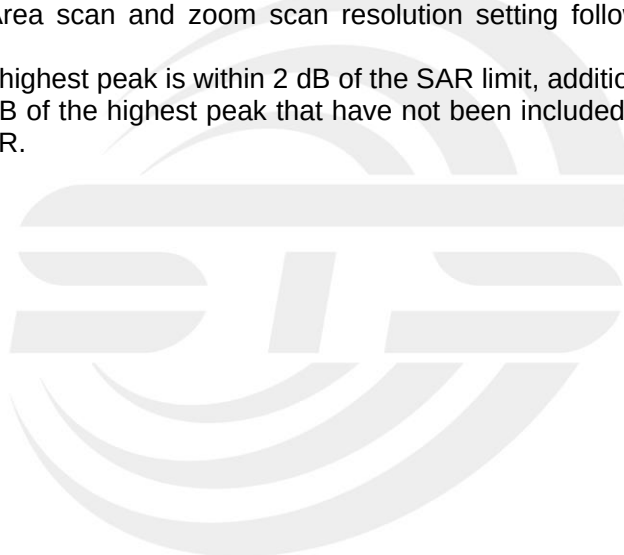
The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

Area Scan& Zoom Scan:

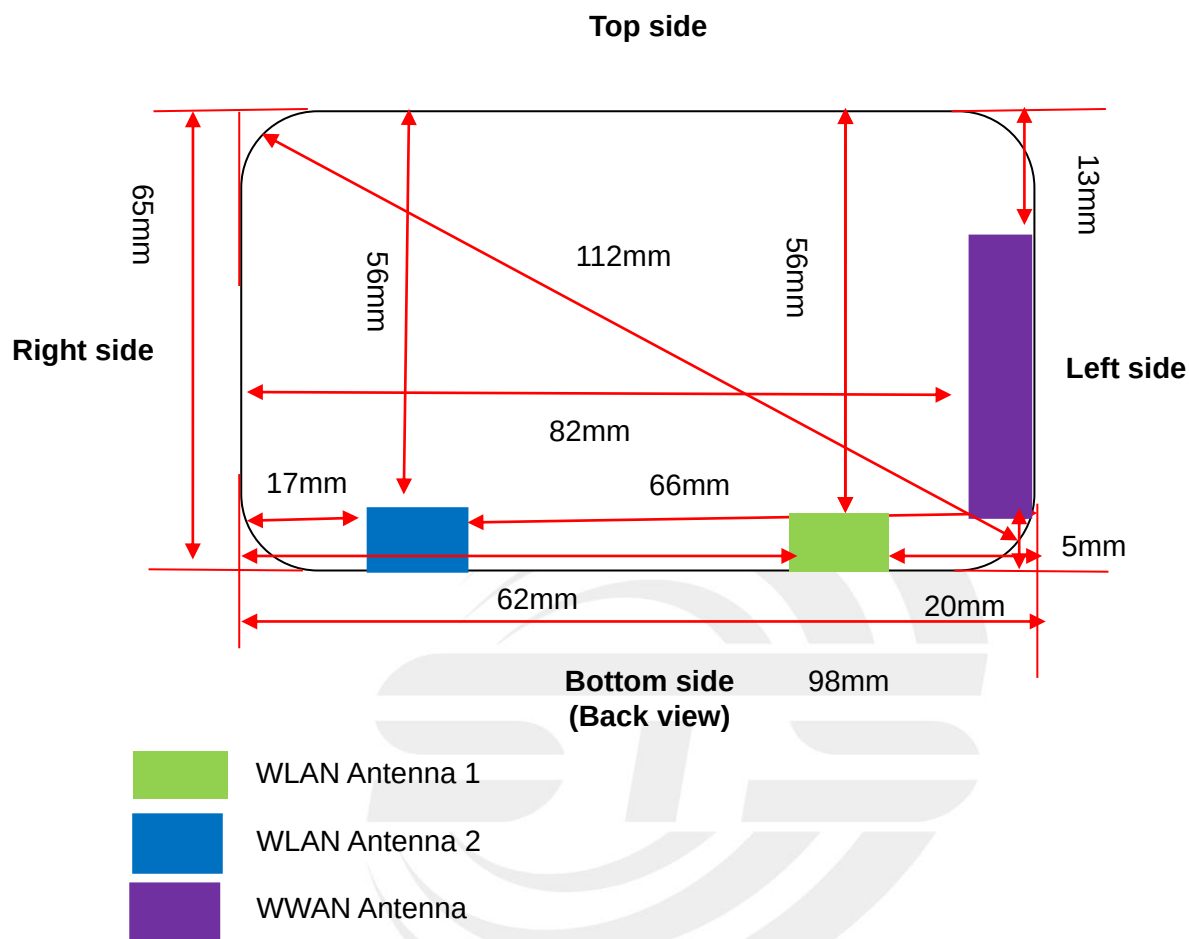
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR -distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r01 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.



7. EUT Antenna Location Sketch

It is a TD0301 LTE Wi-Fi Hotspot, support WWAN/WLAN mode.



Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



7.1 SAR test exclusion consider table

The WWAN/WLAN/BT SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	WCDMA II	WCDMA V	WCDMA IV	LTE Band 2	LTE Band 4
	Calculated Frequency(MHz)	1907.4	846.4	1752.4	1900	1745
	Maximum power (dBm)	24	24	24	24	22.5
	Maximum rated power(mW)	251.19	251.19	251.19	251.19	177.83
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.86	16.30	11.33	10.88	11.36
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.86	16.30	11.33	10.88	11.36
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.86	16.30	11.33	10.88	11.36
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	82	82	82	82	82
	exclusion threshold(mW)	428.61	343.61	433.31	428.82	433.55
	Testing required?	NO	NO	NO	NO	NO
Top Edge	Separation distance (mm)	13	13	13	13	13
	exclusion threshold(mW)	28.24	42.39	29.46	28.29	29.52
	Testing required?	YES	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.86	16.30	11.33	10.88	11.36
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 5	LTE Band 12	LTE Band 13	LTE Band 14	LTE Band 41
	Calculated Frequency(MHz)	844	711	782	793	2680
	Maximum power (dBm)	21	22	25	25	25.5
	Maximum rated power(mW)	125.89	158.49	316.23	316.23	354.81
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.33	17.79	16.96	16.84	9.16
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.33	17.79	16.96	16.84	9.16
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.33	17.79	16.96	16.84	9.16
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	82	82	82	82	82
	exclusion threshold(mW)	343.33	329.57	336.45	337.62	411.63
	Testing required?	NO	NO	NO	NO	NO
Top Edge	Separation distance (mm)	13	13	13	13	13
	exclusion threshold(mW)	42.45	46.25	44.10	43.80	23.82
	Testing required?	YES	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.33	17.79	16.96	16.84	9.16
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 66	LTE Band 71	2.4G WLAN 802.11b ANT1	2.4G WLAN 802.11b ANT2
	Calculated Frequency(MHz)	2190	688	2437	2437
	Maximum power (dBm)	25	25	22	22
	Maximum rated power(mW)	316.23	316.23	158.49	158.49
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	10.14	18.08	9.61	9.61
	Testing required?	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	10.14	18.08	9.61	9.61
	Testing required?	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	20	66
	exclusion threshold(mW)	10.14	18.08	38.43	356.03
	Testing required?	YES	YES	YES	NO
Right Edge	Separation distance (mm)	82	82	62	17
	exclusion threshold(mW)	421.36	327.61	216.09	721.25
	Testing required?	NO	NO	NO	NO
Top Edge	Separation distance (mm)	13	13	56	56
	exclusion threshold(mW)	26.35	47.02	156.09	156.09
	Testing required?	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	10.14	18.08	9.61	9.61
	Testing required?	YES	YES	YES	YES



Exposure Position	Wireless Interface	2.4G WLAN 802.11n20 ANT 1	2.4G WLAN 802.11n20 ANT 2
	Calculated Frequency(MHz)	2437	2437
	Maximum power (dBm)	20.5	20
	Maximum rated power(mW)	112.20	100.00
Back Side	Separation distance (mm)	5	5
	exclusion threshold(mW)	9.61	9.61
	Testing required?	YES	YES
Front Side	Separation distance (mm)	5	5
	exclusion threshold(mW)	9.61	9.61
	Testing required?	YES	YES
Left Edge	Separation distance (mm)	20	66
	exclusion threshold(mW)	38.43	356.03
	Testing required?	YES	NO
Right Edge	Separation distance (mm)	62	17
	exclusion threshold(mW)	216.09	721.25
	Testing required?	NO	NO
Top Edge	Separation distance (mm)	56	56
	exclusion threshold(mW)	156.09	156.09
	Testing required?	NO	NO
Bottom Edge	Separation distance (mm)	5	5
	exclusion threshold(mW)	9.61	9.61
	Testing required?	YES	YES

**Note:**

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. per KDB 447498 D01, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <25mm, 25mm is user to determine SAR exclusion threshold
4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance $\leq 50\text{mm}$ are determined by:
$$[(\text{max. power of channel, including tune-up tolerance, Mw}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation. The result is rounded to one decimal place for comparison}$$

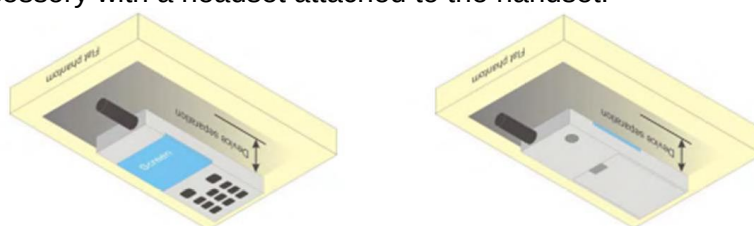
For <50mm distance, we just calculate mW of the exclusion threshold value(3.0) to do compare
5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
 - a) [threshold at 50mm in step 1] + (test separation distance - 50mm) * (f (MHz)/150)] Mw, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in step 1] + (test separation distance - 50mm) * 10] mW at > 1500MHz and $\leq 6\text{GHz}$
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band ,testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode ,thus the SAR can be excluded.
7. Per KDB 616217 D04, SAR evaluation for the front surface of tablet display screens are generally not necessary.

8. EUT Test Position

This EUT was tested in Front Face and Rear Face.

8.1 Body-worn Position Conditions

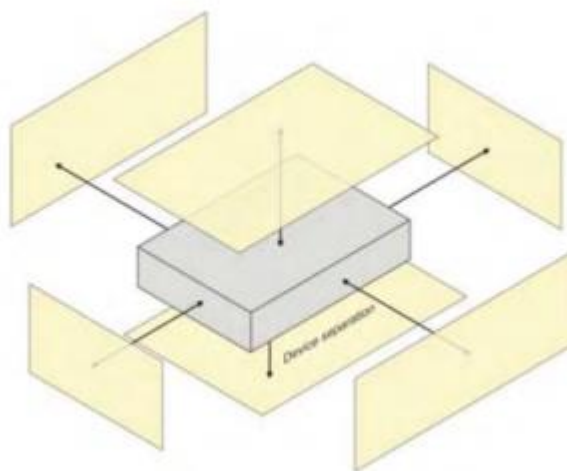
Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm from that surface or edge.

When form factor of a handset is smaller than $9\text{cm} \times 5\text{cm}$, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration(surface).





9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Uncertainty Component	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System								
Probe calibration	5.831	N	1	1	1	5.83	5.83	∞
Axial Isotropy	0.695	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	0.28	0.28	∞
Hemispherical Isotropy	1.045	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	0.43	0.43	∞
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	0.685	R	$\sqrt{3}$	1	1	0.40	0.40	∞
System detection limits	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Readout Electronics	0.021	N	1	1	1	0.021	0.021	∞
Response Time	0	R	$\sqrt{3}$	1	1	0	0	∞
Integration Time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF ambient conditions-Noise	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Post-processing	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Test sample Related								
Test sample positioning	2.6	N	1	1	1	2.6	2.6	∞
Device holder uncertainty	3	N	1	1	1	3	3	∞
SAR drift measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and tissue parameters								
Phantom uncertainty(shape and thickness uncertainty)	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity(temperature uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid conductivity(measured)	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity(temperature uncertainty)	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity(measured)	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty		RSS				9.79	9.59	
Expanded Uncertainty (95% Confidence interval)		K=2				19.58	19.18	



9.2 System validation Uncertainty

Uncertainty Component	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System								
Probe calibration	5.831	N	1	1	1	5.83	5.83	∞
Axial Isotropy	0.695	R	$\sqrt{3}$	1	1	0.40	0.40	∞
Hemispherical Isotropy	1.045	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	0.685	R	$\sqrt{3}$	1	1	0.40	0.40	∞
System detection limits	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	0.021	N	1	1	1	0.021	0.021	∞
Response Time	0.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Post-Processing	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
System validation source								
Deviation of experimental dipole from numerical dipole	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Other source contribution Uncertainty	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and set-up								
Phantom uncertainty(shape and thickness uncertainty)	4.0	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity(temperature uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid conductivity(measured)	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity(temperature uncertainty)	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity(measured)	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty		RSS				9.718	9.517	
Expanded Uncertainty (95% Confidence interval)		K=2				19.44	19.04	



10. Conducted Power Measurement

10.1 Test Result WCDMA

Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV		
Channel	4133	4175	4323	9263	9400	9537	1313	1450	1512
Frequency (MHz)	826.6	835	846.6	1852.6	1880.0	1907.4	1712.6	1740	1752.4
RMC 12.2Kbps	22.71	22.97	23.48	21.57	22.85	23.4	21.17	22.91	23.45
HSDPA Subtest-1	18.82	19.18	19.69	18.56	19.07	17.37	18.55	18.73	19.51
HSDPA Subtest-2	19.27	19.64	20.02	19.55	19.64	18.96	19.18	19.09	19.68
HSDPA Subtest-3	18.84	19.28	19.78	19.33	18.95	19.28	19.12	19.12	19.77
HSDPA Subtest-4	18.87	19.16	19.21	18.87	19.25	19.24	18.86	18.55	19.51
HSUPA Subtest-1	19.02	18.85	19.56	19.51	18.84	19.47	19.06	19.22	19.53
HSUPA Subtest-2	18.8	19.51	19.59	19.39	18.83	19.27	19.4	19.04	19.3
HSUPA Subtest-3	18.74	19.02	19.84	19.16	19.16	19.75	19.15	18.79	19.3
HSUPA Subtest-4	18.99	19.31	19.63	19.45	19.35	19.23	19.15	19.01	19.68
HSUPA Subtest-5	18.77	19.02	19.57	19.45	19.35	19.18	19.4	18.76	19.58

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

**2.4G WLAN**

Test Mode	Frequency (MHz)	Tx Type	Measured Average Output Power (dBm)			Verdict
			Ant 1	Ant 2	Total	
802.11b	2412	SISO	21.56	21.17	/	PASS
	2437	SISO	21.18	21.88	/	PASS
	2462	SISO	21.48	21.47	/	PASS
802.11g	2412	SISO	19.49	19.63	/	PASS
	2437	SISO	19.53	20.36	/	PASS
	2462	SISO	19.87	20.16	/	PASS
802.11n(HT20)	2412	MIMO	19.5	19.16	22.34	PASS
	2437	MIMO	20.43	19.32	22.92	PASS
	2462	MIMO	19.91	19.47	22.71	PASS
802.11n(HT40)	2422	MIMO	18.22	17.87	21.06	PASS
	2437	MIMO	18.85	18.19	21.54	PASS
	2452	MIMO	18.93	18.37	21.67	PASS





LTE Power

Test Band: 2 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.63	24.38	24.06	/	1.00	24.63	25.38	25.06	33.01	PASS
		2	23.64	24.38	24.11	/	1.00	24.64	25.38	25.11	33.01	PASS
		5	23.70	24.16	23.94	/	1.00	24.70	25.16	24.94	33.01	PASS
	3	0	23.77	24.28	23.94	/	1.00	24.77	25.28	24.94	33.01	PASS
		2	23.94	24.35	24.10	/	1.00	24.94	25.35	25.10	33.01	PASS
		3	23.61	24.28	24.02	/	1.00	24.61	25.28	25.02	33.01	PASS
	6	0	22.71	23.25	22.95	/	1.00	23.71	24.25	23.95	33.01	PASS
	23.19		23.60	23.39	/	1.00	24.19	24.60	24.39	33.01	PASS	
	16QAM	1	2	23.30	23.73	23.42	/	1.00	24.30	24.73	24.42	33.01
5			23.18	23.65	23.13	/	1.00	24.18	24.65	24.13	33.01	PASS
3			0	23.02	23.07	22.83	/	1.00	24.02	24.07	23.83	33.01
		2	23.06	23.02	22.72	/	1.00	24.06	24.02	23.72	33.01	PASS
		3	22.98	22.86	22.73	/	1.00	23.98	23.86	23.73	33.01	PASS
6		0	21.82	22.18	21.86	/	1.00	22.82	23.18	22.86	33.01	PASS

Test Band: 2 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.70	24.35	24.17	/	1.00	24.70	25.35	25.17	33.01	PASS
		7	23.93	24.50	24.22	/	1.00	24.93	25.50	25.22	33.01	PASS
		14	23.54	24.19	23.88	/	1.00	24.54	25.19	24.88	33.01	PASS
	8	0	22.76	23.46	23.23	/	1.00	23.76	24.46	24.23	33.01	PASS
		4	22.63	23.38	23.03	/	1.00	23.63	24.38	24.03	33.01	PASS
		7	22.64	23.37	23.06	/	1.00	23.64	24.37	24.06	33.01	PASS
	15	0	22.72	23.35	23.19	/	1.00	23.72	24.35	24.19	33.01	PASS
	22.77		23.57	23.07	/	1.00	23.77	24.57	24.07	33.01	PASS	
	16QAM	1	7	22.73	23.44	22.85	/	1.00	23.73	24.44	23.85	33.01
14			22.33	23.32	22.20	/	1.00	23.33	24.32	23.20	33.01	PASS
8			0	21.45	22.53	22.29	/	1.00	22.45	23.53	23.29	33.01
		4	21.37	22.48	22.18	/	1.00	22.37	23.48	23.18	33.01	PASS
		7	21.31	22.50	22.24	/	1.00	22.31	23.50	23.24	33.01	PASS
15		0	21.54	22.40	21.93	/	1.00	22.54	23.40	22.93	33.01	PASS



Test Band: 2 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.49	24.54	24.17	/	1.00	24.49	25.54	25.17	33.01	PASS
		13	23.34	24.43	23.96	/	1.00	24.34	25.43	24.96	33.01	PASS
		24	23.21	24.08	24.00	/	1.00	24.21	25.08	25.00	33.01	PASS
	12	0	22.67	23.50	23.33	/	1.00	23.67	24.50	24.33	33.01	PASS
		6	22.63	23.42	23.17	/	1.00	23.63	24.42	24.17	33.01	PASS
		13	22.46	23.20	23.11	/	1.00	23.46	24.20	24.11	33.01	PASS
	25	0	22.58	23.36	23.23	/	1.00	23.58	24.36	24.23	33.01	PASS
16QAM	1	0	23.15	23.77	23.05	/	1.00	24.15	24.77	24.05	33.01	PASS
		13	22.76	23.70	22.72	/	1.00	23.76	24.70	23.72	33.01	PASS
		24	22.44	23.54	22.39	/	1.00	23.44	24.54	23.39	33.01	PASS
	12	0	21.76	22.37	22.23	/	1.00	22.76	23.37	23.23	33.01	PASS
		6	21.66	22.28	22.07	/	1.00	22.66	23.28	23.07	33.01	PASS
		13	21.50	22.18	21.93	/	1.00	22.50	23.18	22.93	33.01	PASS
	25	0	21.52	22.35	22.14	/	1.00	22.52	23.35	23.14	33.01	PASS

Test Band: 2 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.62	24.57	24.11	/	1.00	24.62	25.57	25.11	33.01	PASS
		25	23.76	24.62	24.45	/	1.00	24.76	25.62	25.45	33.01	PASS
		49	23.05	23.69	23.91	/	1.00	24.05	24.69	24.91	33.01	PASS
	25	0	22.55	23.45	23.42	/	1.00	23.55	24.45	24.42	33.01	PASS
		13	22.49	23.38	23.40	/	1.00	23.49	24.38	24.40	33.01	PASS
		25	22.24	23.05	23.14	/	1.00	23.24	24.05	24.14	33.01	PASS
	50	0	22.45	23.29	23.36	/	1.00	23.45	24.29	24.36	33.01	PASS
16QAM	1	0	22.76	24.05	23.26	/	1.00	23.76	25.05	24.26	33.01	PASS
		25	23.11	23.64	23.43	/	1.00	24.11	24.64	24.43	33.01	PASS
		49	22.28	23.28	22.48	/	1.00	23.28	24.28	23.48	33.01	PASS
	25	0	21.68	22.40	22.42	/	1.00	22.68	23.40	23.42	33.01	PASS
		13	21.56	22.31	22.38	/	1.00	22.56	23.31	23.38	33.01	PASS
		25	21.30	22.15	22.07	/	1.00	22.30	23.15	23.07	33.01	PASS
	50	0	21.45	22.19	22.12	/	1.00	22.45	23.19	23.12	33.01	PASS



Test Band: 2 _ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.59	24.57	23.83	/	1.00	24.59	25.57	24.83	33.01	PASS
		38	23.35	24.48	24.46	/	1.00	24.35	25.48	25.46	33.01	PASS
		74	23.36	23.54	23.84	/	1.00	24.36	24.54	24.84	33.01	PASS
	36	0	22.51	23.58	23.19	/	1.00	23.51	24.58	24.19	33.01	PASS
		18	22.40	23.39	23.42	/	1.00	23.40	24.39	24.42	33.01	PASS
		39	22.38	22.87	23.30	/	1.00	23.38	23.87	24.30	33.01	PASS
	75	0	22.51	23.28	23.24	/	1.00	23.51	24.28	24.24	33.01	PASS
	22.67		23.98	22.23	/	1.00	23.67	24.98	23.23	33.01	PASS	
	16QAM	1	38	22.48	23.42	24.15	/	1.00	23.48	24.42	25.15	33.01
74			21.66	22.89	22.43	/	1.00	22.66	23.89	23.43	33.01	PASS
36			0	21.53	22.67	22.22	/	1.00	22.53	23.67	23.22	33.01
		18	21.50	22.48	22.37	/	1.00	22.50	23.48	23.37	33.01	PASS
		39	21.21	22.05	22.16	/	1.00	22.21	23.05	23.16	33.01	PASS
75		0	21.33	22.22	22.15	/	1.00	22.33	23.22	23.15	33.01	PASS

Test Band: 2 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.68	24.44	23.41	/	1.00	24.68	25.44	24.41	33.01	PASS
		50	23.48	24.45	24.69	/	1.00	24.48	25.45	25.69	33.01	PASS
		99	24.22	23.22	23.81	/	1.00	25.22	24.22	24.81	33.01	PASS
	50	0	22.53	23.62	22.85	/	1.00	23.53	24.62	23.85	33.01	PASS
		25	22.45	23.37	23.40	/	1.00	23.45	24.37	24.40	33.01	PASS
		50	22.75	22.81	23.42	/	1.00	23.75	23.81	24.42	33.01	PASS
	100	0	22.60	23.30	23.08	/	1.00	23.60	24.30	24.08	33.01	PASS
	22.99		23.26	22.90	/	1.00	23.99	24.26	23.90	33.01	PASS	
	16QAM	1	50	23.05	23.36	24.06	/	1.00	24.05	24.36	25.06	33.01
99			23.69	22.14	22.69	/	1.00	24.69	23.14	23.69	33.01	PASS
50			0	21.47	22.53	21.79	/	1.00	22.47	23.53	22.79	33.01
		25	21.41	22.37	22.41	/	1.00	22.41	23.37	23.41	33.01	PASS
		50	21.62	21.84	22.39	/	1.00	22.62	22.84	23.39	33.01	PASS
100		0	21.54	22.15	22.11	/	1.00	22.54	23.15	23.11	33.01	PASS



Test Band: 4 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.69	23.45	24.41	/	1.00	24.69	24.45	25.41	30.00	PASS
		2	23.77	23.38	24.37	/	1.00	24.77	24.38	25.37	30.00	PASS
		5	23.91	23.21	24.35	/	1.00	24.91	24.21	25.35	30.00	PASS
	3	0	23.66	23.47	24.31	/	1.00	24.66	24.47	25.31	30.00	PASS
		2	23.81	23.40	24.35	/	1.00	24.81	24.40	25.35	30.00	PASS
		3	23.72	23.31	24.31	/	1.00	24.72	24.31	25.31	30.00	PASS
	6	0	22.66	22.46	23.45	/	1.00	23.66	23.46	24.45	30.00	PASS
	22.95		22.43	23.59	/	1.00	23.95	23.43	24.59	30.00	PASS	
	16QAM	1	2	23.23	22.46	23.76	/	1.00	24.23	23.46	24.76	30.00
5			23.07	22.34	23.60	/	1.00	24.07	23.34	24.60	30.00	PASS
3			0	22.56	22.36	23.15	/	1.00	23.56	23.36	24.15	30.00
		2	22.64	22.45	23.19	/	1.00	23.64	23.45	24.19	30.00	PASS
		3	22.57	22.36	23.15	/	1.00	23.57	23.36	24.15	30.00	PASS
6		0	21.62	21.63	22.31	/	1.00	22.62	22.63	23.31	30.00	PASS

Test Band: 4 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.57	23.67	24.39	/	1.00	24.57	24.67	25.39	30.00	PASS
		7	24.00	23.44	24.56	/	1.00	25.00	24.44	25.56	30.00	PASS
		14	24.01	23.20	24.40	/	1.00	25.01	24.20	25.40	30.00	PASS
	8	0	22.76	22.63	23.46	/	1.00	23.76	23.63	24.46	30.00	PASS
		4	22.88	22.50	23.44	/	1.00	23.88	23.50	24.44	30.00	PASS
		7	22.91	22.36	23.34	/	1.00	23.91	23.36	24.34	30.00	PASS
	15	0	22.72	22.58	23.41	/	1.00	23.72	23.58	24.41	30.00	PASS
	22.87		22.54	23.29	/	1.00	23.87	23.54	24.29	30.00	PASS	
	16QAM	1	7	23.21	22.44	23.51	/	1.00	24.21	23.44	24.51	30.00
14			23.25	22.18	23.28	/	1.00	24.25	23.18	24.28	30.00	PASS
8			0	21.73	21.69	22.13	/	1.00	22.73	22.69	23.13	30.00
		4	21.89	21.57	22.13	/	1.00	22.89	22.57	23.13	30.00	PASS
		7	22.01	21.52	22.16	/	1.00	23.01	22.52	23.16	30.00	PASS
15		0	21.72	21.65	22.29	/	1.00	22.72	22.65	23.29	30.00	PASS



Test Band: 4 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.42	23.70	24.30	/	1.00	24.42	24.70	25.30	30.00	PASS
		13	23.86	23.25	24.44	/	1.00	24.86	24.25	25.44	30.00	PASS
		24	23.94	22.95	24.37	/	1.00	24.94	23.95	25.37	30.00	PASS
	12	0	22.74	22.63	23.61	/	1.00	23.74	23.63	24.61	30.00	PASS
		6	23.06	22.55	23.68	/	1.00	24.06	23.55	24.68	30.00	PASS
		13	22.87	22.36	23.59	/	1.00	23.87	23.36	24.59	30.00	PASS
	25	0	22.84	22.59	23.56	/	1.00	23.84	23.59	24.56	30.00	PASS
	22.50		22.99	23.33	/	1.00	23.50	23.99	24.33	30.00	PASS	
	16QAM	1	13	23.04	22.86	23.40	/	1.00	24.04	23.86	24.40	30.00
24			23.25	22.54	23.28	/	1.00	24.25	23.54	24.28	30.00	PASS
0			21.68	21.60	22.49	/	1.00	22.68	22.60	23.49	30.00	PASS
12		6	21.81	21.42	22.63	/	1.00	22.81	22.42	23.63	30.00	PASS
		13	21.97	21.28	22.61	/	1.00	22.97	22.28	23.61	30.00	PASS
		25	0	21.81	21.59	22.59	/	1.00	22.81	22.59	23.59	30.00

Test Band: 4 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.69	23.89	24.08	/	1.00	24.69	24.89	25.08	30.00	PASS
		25	24.31	23.83	24.85	/	1.00	25.31	24.83	25.85	30.00	PASS
		49	24.24	22.98	24.35	/	1.00	25.24	23.98	25.35	30.00	PASS
	25	0	22.88	22.81	23.42	/	1.00	23.88	23.81	24.42	30.00	PASS
		13	23.12	22.55	23.58	/	1.00	24.12	23.55	24.58	30.00	PASS
		25	23.24	22.27	23.55	/	1.00	24.24	23.27	24.55	30.00	PASS
	50	0	23.07	22.68	23.53	/	1.00	24.07	23.68	24.53	30.00	PASS
	22.72		23.28	22.64	/	1.00	23.72	24.28	23.64	30.00	PASS	
	16QAM	1	25	23.98	22.74	23.78	/	1.00	24.98	23.74	24.78	30.00
49			23.37	22.61	23.10	/	1.00	24.37	23.61	24.10	30.00	PASS
25			0	22.00	21.87	22.19	/	1.00	23.00	22.87	23.19	30.00
		13	22.22	21.62	22.63	/	1.00	23.22	22.62	23.63	30.00	PASS
		25	22.20	21.17	22.56	/	1.00	23.20	22.17	23.56	30.00	PASS
50		0	22.04	21.56	22.37	/	1.00	23.04	22.56	23.37	30.00	PASS



Test Band: 4 _ 15MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.69	24.19	23.39	/	1.00	24.69	25.19	24.39	30.00	PASS	
		38	24.44	23.42	24.43	/	1.00	25.44	24.42	25.43	30.00	PASS	
		74	24.22	23.09	24.14	/	1.00	25.22	24.09	25.14	30.00	PASS	
	36	0	23.09	23.00	22.96	/	1.00	24.09	24.00	23.96	30.00	PASS	
		18	23.31	22.56	23.47	/	1.00	24.31	23.56	24.47	30.00	PASS	
		39	23.34	22.25	23.58	/	1.00	24.34	23.25	24.58	30.00	PASS	
	75	0	23.17	22.67	23.31	/	1.00	24.17	23.67	24.31	30.00	PASS	
	23.10		23.17	22.38	/	1.00	24.10	24.17	23.38	30.00	PASS		
	16QAM	1	38	23.65	22.49	23.36	/	1.00	24.65	23.49	24.36	30.00	PASS
			74	23.78	22.19	23.16	/	1.00	24.78	23.19	24.16	30.00	PASS
36			0	22.06	21.89	21.80	/	1.00	23.06	22.89	22.80	30.00	PASS
		18	22.37	21.57	22.55	/	1.00	23.37	22.57	23.55	30.00	PASS	
		39	22.18	21.17	22.63	/	1.00	23.18	22.17	23.63	30.00	PASS	
75		0	22.23	21.56	22.41	/	1.00	23.23	22.56	23.41	30.00	PASS	

Test Band: 4 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.55	24.32	23.20	/	1.00	24.55	25.32	24.20	30.00	PASS
		50	24.55	23.36	24.44	/	1.00	25.55	24.36	25.44	30.00	PASS
		99	23.81	23.31	24.36	/	1.00	24.81	24.31	25.36	30.00	PASS
	50	0	23.17	23.06	22.68	/	1.00	24.17	24.06	23.68	30.00	PASS
		25	23.51	22.52	23.16	/	1.00	24.51	23.52	24.16	30.00	PASS
		50	23.41	22.29	23.47	/	1.00	24.41	23.29	24.47	30.00	PASS
	100	0	23.33	22.77	23.04	/	1.00	24.33	23.77	24.04	30.00	PASS
	22.70		23.77	22.75	/	1.00	23.70	24.77	23.75	30.00	PASS	
	16QAM	1	50	23.28	22.92	24.12	/	1.00	24.28	23.92	25.12	30.00
99			22.17	22.26	23.87	/	1.00	23.17	23.26	24.87	30.00	PASS
50			0	22.27	22.03	21.61	/	1.00	23.27	23.03	22.61	30.00
		25	22.58	21.60	22.22	/	1.00	23.58	22.60	23.22	30.00	PASS
		50	22.43	21.30	22.46	/	1.00	23.43	22.30	23.46	30.00	PASS
100		0	22.42	21.65	22.00	/	1.00	23.42	22.65	23.00	30.00	PASS



Test Band: 5 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.65	23.83	24.35	-1.15	1.00	22.50	22.68	23.20	38.45	PASS
		2	23.96	23.86	24.36	-1.15	1.00	22.81	22.71	23.21	38.45	PASS
		5	23.88	23.80	24.52	-1.15	1.00	22.73	22.65	23.37	38.45	PASS
	3	0	23.86	23.99	24.30	-1.15	1.00	22.71	22.84	23.15	38.45	PASS
		2	23.85	24.13	24.46	-1.15	1.00	22.70	22.98	23.31	38.45	PASS
		3	23.79	23.95	24.25	-1.15	1.00	22.64	22.80	23.10	38.45	PASS
	6	0	22.89	22.94	23.29	-1.15	1.00	21.74	21.79	22.14	38.45	PASS
	23.40		22.94	23.24	-1.15	1.00	22.25	21.79	22.09	38.45	PASS	
	16QAM	1	2	23.54	23.31	23.44	-1.15	1.00	22.39	22.16	22.29	38.45
5			23.29	23.36	23.13	-1.15	1.00	22.14	22.21	21.98	38.45	PASS
3			0	22.66	22.62	23.01	-1.15	1.00	21.51	21.47	21.86	38.45
		2	22.73	22.57	23.46	-1.15	1.00	21.58	21.42	22.31	38.45	PASS
		3	22.85	22.53	23.39	-1.15	1.00	21.70	21.38	22.24	38.45	PASS
6		0	21.84	21.99	22.42	-1.15	1.00	20.69	20.84	21.27	38.45	PASS

Test Band: 5 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.90	23.96	24.37	-1.15	1.00	22.75	22.81	23.22	38.45	PASS
		7	23.87	24.12	24.29	-1.15	1.00	22.72	22.97	23.14	38.45	PASS
		14	23.76	24.04	24.10	-1.15	1.00	22.61	22.89	22.95	38.45	PASS
	8	0	22.92	23.09	23.45	-1.15	1.00	21.77	21.94	22.30	38.45	PASS
		4	22.82	23.11	23.43	-1.15	1.00	21.67	21.96	22.28	38.45	PASS
		7	22.84	23.10	23.35	-1.15	1.00	21.69	21.95	22.20	38.45	PASS
	15	0	22.87	23.08	23.51	-1.15	1.00	21.72	21.93	22.36	38.45	PASS
	22.85		22.88	23.24	-1.15	1.00	21.70	21.73	22.09	38.45	PASS	
	16QAM	1	7	22.88	22.97	23.62	-1.15	1.00	21.73	21.82	22.47	38.45
14			22.62	22.99	23.22	-1.15	1.00	21.47	21.84	22.07	38.45	PASS
0			21.66	22.09	22.32	-1.15	1.00	20.51	20.94	21.17	38.45	PASS
8		4	21.57	22.13	22.23	-1.15	1.00	20.42	20.98	21.08	38.45	PASS
		7	21.50	22.10	22.14	-1.15	1.00	20.35	20.95	20.99	38.45	PASS
		0	21.82	21.88	22.42	-1.15	1.00	20.67	20.73	21.27	38.45	PASS
15		0	21.82	21.88	22.42	-1.15	1.00	20.67	20.73	21.27	38.45	PASS



Test Band: 5 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.76	23.89	24.14	-1.15	1.00	22.61	22.74	22.99	38.45	PASS
		13	23.48	24.05	24.36	-1.15	1.00	22.33	22.90	23.21	38.45	PASS
		24	23.30	23.87	24.09	-1.15	1.00	22.15	22.72	22.94	38.45	PASS
	12	0	22.83	23.02	23.40	-1.15	1.00	21.68	21.87	22.25	38.45	PASS
		6	22.84	23.07	23.50	-1.15	1.00	21.69	21.92	22.35	38.45	PASS
		13	22.71	23.13	23.36	-1.15	1.00	21.56	21.98	22.21	38.45	PASS
	25	0	22.81	23.01	23.50	-1.15	1.00	21.66	21.86	22.35	38.45	PASS
		13	22.78	23.13	22.95	-1.15	1.00	21.63	21.98	21.80	38.45	PASS
		24	22.73	23.33	23.34	-1.15	1.00	21.58	22.18	22.19	38.45	PASS
16QAM	1	0	21.73	21.93	22.40	-1.15	1.00	20.58	20.78	21.25	38.45	PASS
		6	21.91	21.89	22.49	-1.15	1.00	20.76	20.74	21.34	38.45	PASS
		13	21.71	22.05	22.35	-1.15	1.00	20.56	20.90	21.20	38.45	PASS
	12	0	21.80	22.06	22.49	-1.15	1.00	20.65	20.91	21.34	38.45	PASS
		6	21.80	22.06	22.49	-1.15	1.00	20.65	20.91	21.34	38.45	PASS
		13	21.80	22.06	22.49	-1.15	1.00	20.65	20.91	21.34	38.45	PASS
	25	0	21.80	22.06	22.49	-1.15	1.00	20.65	20.91	21.34	38.45	PASS
		6	21.80	22.06	22.49	-1.15	1.00	20.65	20.91	21.34	38.45	PASS
		13	21.80	22.06	22.49	-1.15	1.00	20.65	20.91	21.34	38.45	PASS

Test Band: 5 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.86	23.73	24.15	-1.15	1.00	22.71	22.58	23.00	38.45	PASS
		25	24.00	24.10	24.32	-1.15	1.00	22.85	22.95	23.17	38.45	PASS
		49	23.72	24.27	24.12	-1.15	1.00	22.57	23.12	22.97	38.45	PASS
	25	0	22.72	23.00	23.45	-1.15	1.00	21.57	21.85	22.30	38.45	PASS
		13	22.75	23.08	23.56	-1.15	1.00	21.60	21.93	22.41	38.45	PASS
		25	22.79	23.23	23.46	-1.15	1.00	21.64	22.08	22.31	38.45	PASS
	50	0	22.82	23.15	23.40	-1.15	1.00	21.67	22.00	22.25	38.45	PASS
		13	22.88	22.94	23.22	-1.15	1.00	21.73	21.79	22.07	38.45	PASS
		25	22.80	23.09	23.59	-1.15	1.00	21.65	21.94	22.44	38.45	PASS
16QAM	1	0	21.74	22.00	22.51	-1.15	1.00	20.59	20.85	21.36	38.45	PASS
		6	21.78	22.22	22.55	-1.15	1.00	20.63	21.07	21.40	38.45	PASS
		13	21.83	22.29	22.33	-1.15	1.00	20.68	21.14	21.18	38.45	PASS
	25	0	21.88	22.11	22.33	-1.15	1.00	20.73	20.96	21.18	38.45	PASS
		6	21.88	22.11	22.33	-1.15	1.00	20.73	20.96	21.18	38.45	PASS
		13	21.88	22.11	22.33	-1.15	1.00	20.73	20.96	21.18	38.45	PASS
	50	0	21.88	22.11	22.33	-1.15	1.00	20.73	20.96	21.18	38.45	PASS
		6	21.88	22.11	22.33	-1.15	1.00	20.73	20.96	21.18	38.45	PASS
		13	21.88	22.11	22.33	-1.15	1.00	20.73	20.96	21.18	38.45	PASS



Test Band: 12 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	24.37	23.22	23.50	-1.15	1.00	23.22	22.07	22.35	34.77	PASS
		2	24.47	23.13	23.61	-1.15	1.00	23.32	21.98	22.46	34.77	PASS
		5	24.37	23.08	23.68	-1.15	1.00	23.22	21.93	22.53	34.77	PASS
	3	0	24.21	23.24	23.52	-1.15	1.00	23.06	22.09	22.37	34.77	PASS
		2	24.23	23.35	23.59	-1.15	1.00	23.08	22.20	22.44	34.77	PASS
		3	24.06	23.25	23.66	-1.15	1.00	22.91	22.10	22.51	34.77	PASS
	6	0	23.17	22.33	22.65	-1.15	1.00	22.02	21.18	21.50	34.77	PASS
	23.58		22.12	22.97	-1.15	1.00	22.43	20.97	21.82	34.77	PASS	
	16QAM	1	2	23.66	22.11	23.01	-1.15	1.00	22.51	20.96	21.86	34.77
5			23.44	22.07	23.09	-1.15	1.00	22.29	20.92	21.94	34.77	PASS
3			0	22.88	22.21	22.64	-1.15	1.00	21.73	21.06	21.49	34.77
		2	22.76	22.23	22.72	-1.15	1.00	21.61	21.08	21.57	34.77	PASS
		3	22.71	22.20	22.58	-1.15	1.00	21.56	21.05	21.43	34.77	PASS
6		0	22.11	21.32	21.95	-1.15	1.00	20.96	20.17	20.80	34.77	PASS

Test Band: 12 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	24.18	23.39	23.35	-1.15	1.00	23.03	22.24	22.20	34.77	PASS
		7	24.21	23.35	23.52	-1.15	1.00	23.06	22.20	22.37	34.77	PASS
		14	23.95	23.35	23.63	-1.15	1.00	22.80	22.20	22.48	34.77	PASS
	8	0	23.05	22.35	22.45	-1.15	1.00	21.90	21.20	21.30	34.77	PASS
		4	23.08	22.27	22.49	-1.15	1.00	21.93	21.12	21.34	34.77	PASS
		7	22.98	22.27	22.49	-1.15	1.00	21.83	21.12	21.34	34.77	PASS
	15	0	23.01	22.29	22.47	-1.15	1.00	21.86	21.14	21.32	34.77	PASS
	22.72		22.68	21.89	-1.15	1.00	21.57	21.53	20.74	34.77	PASS	
	16QAM	1	7	22.85	22.54	21.87	-1.15	1.00	21.70	21.39	20.72	34.77
14			22.49	22.29	22.33	-1.15	1.00	21.34	21.14	21.18	34.77	PASS
0			21.95	21.46	21.62	-1.15	1.00	20.80	20.31	20.47	34.77	PASS
8		4	21.89	21.39	21.55	-1.15	1.00	20.74	20.24	20.40	34.77	PASS
		7	21.80	21.35	21.63	-1.15	1.00	20.65	20.20	20.48	34.77	PASS
		15	0	21.82	21.10	21.39	-1.15	1.00	20.67	19.95	20.24	34.77



Test Band: 12 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.97	23.21	23.06	-1.15	1.00	22.82	22.06	21.91	34.77	PASS
		13	24.02	22.94	23.33	-1.15	1.00	22.87	21.79	22.18	34.77	PASS
		24	23.48	22.81	23.53	-1.15	1.00	22.33	21.66	22.38	34.77	PASS
	12	0	23.08	22.23	22.21	-1.15	1.00	21.93	21.08	21.06	34.77	PASS
		6	22.93	22.20	22.38	-1.15	1.00	21.78	21.05	21.23	34.77	PASS
		13	22.77	22.17	22.35	-1.15	1.00	21.62	21.02	21.20	34.77	PASS
	25	0	22.92	22.24	22.38	-1.15	1.00	21.77	21.09	21.23	34.77	PASS
	23.03		22.57	21.53	-1.15	1.00	21.88	21.42	20.38	34.77	PASS	
	16QAM	1	13	23.11	22.40	21.97	-1.15	1.00	21.96	21.25	20.82	34.77
24			22.58	22.28	22.08	-1.15	1.00	21.43	21.13	20.93	34.77	PASS
12			0	22.17	21.30	20.83	-1.15	1.00	21.02	20.15	19.68	34.77
		6	22.06	21.16	21.02	-1.15	1.00	20.91	20.01	19.87	34.77	PASS
		13	21.72	21.01	21.46	-1.15	1.00	20.57	19.86	20.31	34.77	PASS
25		0	21.88	21.30	21.39	-1.15	1.00	20.73	20.15	20.24	34.77	PASS

Test Band: 12 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	24.09	23.56	23.26	-1.15	1.00	22.94	22.41	22.11	34.77	PASS
		25	23.83	23.33	23.39	-1.15	1.00	22.68	22.18	22.24	34.77	PASS
		49	23.05	23.13	23.56	-1.15	1.00	21.90	21.98	22.41	34.77	PASS
	25	0	22.84	22.46	22.23	-1.15	1.00	21.69	21.31	21.08	34.77	PASS
		13	22.68	22.30	22.35	-1.15	1.00	21.53	21.15	21.20	34.77	PASS
		25	22.27	22.11	22.32	-1.15	1.00	21.12	20.96	21.17	34.77	PASS
	50	0	22.59	22.24	22.23	-1.15	1.00	21.44	21.09	21.08	34.77	PASS
	23.32		22.93	21.51	-1.15	1.00	22.17	21.78	20.36	34.77	PASS	
	16QAM	1	25	23.30	22.61	22.30	-1.15	1.00	22.15	21.46	21.15	34.77
49			22.11	22.41	22.35	-1.15	1.00	20.96	21.26	21.20	34.77	PASS
25			0	22.10	21.65	21.18	-1.15	1.00	20.95	20.50	20.03	34.77
		13	21.79	21.38	21.34	-1.15	1.00	20.64	20.23	20.19	34.77	PASS
		25	21.38	21.00	21.30	-1.15	1.00	20.23	19.85	20.15	34.77	PASS
50		0	21.59	21.20	21.30	-1.15	1.00	20.44	20.05	20.15	34.77	PASS



Test Band: 13 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	24.17	24.59	24.59	-1.15	1.00	23.02	23.44	23.44	34.77	PASS
		13	24.71	24.45	24.69	-1.15	1.00	23.56	23.30	23.54	34.77	PASS
		24	24.43	24.45	24.63	-1.15	1.00	23.28	23.30	23.48	34.77	PASS
	12	0	23.47	23.79	23.68	-1.15	1.00	22.32	22.64	22.53	34.77	PASS
		6	23.81	23.75	23.70	-1.15	1.00	22.66	22.60	22.55	34.77	PASS
		13	23.72	23.72	23.62	-1.15	1.00	22.57	22.57	22.47	34.77	PASS
	25	0	23.68	23.83	23.50	-1.15	1.00	22.53	22.68	22.35	34.77	PASS
	23.39		23.88	23.38	-1.15	1.00	22.24	22.73	22.23	34.77	PASS	
	16QAM	1	13	23.97	24.12	23.34	-1.15	1.00	22.82	22.97	22.19	34.77
24			23.68	24.17	22.96	-1.15	1.00	22.53	23.02	21.81	34.77	PASS
12			0	22.66	22.54	22.54	-1.15	1.00	21.51	21.39	21.39	34.77
		6	22.73	22.66	22.64	-1.15	1.00	21.58	21.51	21.49	34.77	PASS
		13	22.63	22.63	22.54	-1.15	1.00	21.48	21.48	21.39	34.77	PASS
25		0	22.61	22.74	22.46	-1.15	1.00	21.46	21.59	21.31	34.77	PASS

Test Band: 13 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	/	24.31	/	-1.15	1.00	/	23.16	/	34.77	PASS
		25	/	24.93	/	-1.15	1.00	/	23.78	/	34.77	PASS
		49	/	24.36	/	-1.15	1.00	/	23.21	/	34.77	PASS
	25	0	/	23.54	/	-1.15	1.00	/	22.39	/	34.77	PASS
		13	/	23.57	/	-1.15	1.00	/	22.42	/	34.77	PASS
		25	/	23.59	/	-1.15	1.00	/	22.44	/	34.77	PASS
	50	0	/	23.58	/	-1.15	1.00	/	22.43	/	34.77	PASS
	/		23.60	/	-1.15	1.00	/	22.45	/	34.77	PASS	
	16QAM	1	25	/	24.08	/	-1.15	1.00	/	22.93	/	34.77
49			/	23.70	/	-1.15	1.00	/	22.55	/	34.77	PASS
25			0	/	22.60	/	-1.15	1.00	/	21.45	/	34.77
		13	/	22.63	/	-1.15	1.00	/	21.48	/	34.77	PASS
		25	/	22.58	/	-1.15	1.00	/	21.43	/	34.77	PASS
50		0	/	22.34	/	-1.15	1.00	/	21.19	/	34.77	PASS



Test Band: 14 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	24.37	24.23	23.71	-1.15	1.00	23.22	23.08	22.56	34.77	PASS
		13	24.21	23.90	23.71	-1.15	1.00	23.06	22.75	22.56	34.77	PASS
		24	23.76	23.48	23.45	-1.15	1.00	22.61	22.33	22.30	34.77	PASS
	12	0	23.52	23.06	22.77	-1.15	1.00	22.37	21.91	21.62	34.77	PASS
		6	23.39	23.01	22.72	-1.15	1.00	22.24	21.86	21.57	34.77	PASS
		13	23.06	22.78	22.59	-1.15	1.00	21.91	21.63	21.44	34.77	PASS
	25	0	23.39	23.05	22.68	-1.15	1.00	22.24	21.90	21.53	34.77	PASS
	23.46		23.51	22.60	-1.15	1.00	22.31	22.36	21.45	34.77	PASS	
	16QAM	1	13	23.26	23.39	22.48	-1.15	1.00	22.11	22.24	21.33	34.77
24			22.83	23.05	22.34	-1.15	1.00	21.68	21.90	21.19	34.77	PASS
12			0	22.28	22.01	21.76	-1.15	1.00	21.13	20.86	20.61	34.77
		6	22.20	21.87	21.70	-1.15	1.00	21.05	20.72	20.55	34.77	PASS
		13	21.99	21.63	21.56	-1.15	1.00	20.84	20.48	20.41	34.77	PASS
25		0	22.12	22.02	21.46	-1.15	1.00	20.97	20.87	20.31	34.77	PASS

Test Band: 14 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	/	24.60	/	-1.15	1.00	/	23.45	/	34.77	PASS
		25	/	24.21	/	-1.15	1.00	/	23.06	/	34.77	PASS
		49	/	23.44	/	-1.15	1.00	/	22.29	/	34.77	PASS
	25	0	/	23.37	/	-1.15	1.00	/	22.22	/	34.77	PASS
		13	/	23.00	/	-1.15	1.00	/	21.85	/	34.77	PASS
		25	/	22.65	/	-1.15	1.00	/	21.50	/	34.77	PASS
	50	0	/	23.05	/	-1.15	1.00	/	21.90	/	34.77	PASS
	/		23.94	/	-1.15	1.00	/	22.79	/	34.77	PASS	
	16QAM	1	25	/	23.86	/	-1.15	1.00	/	22.71	/	34.77
49			/	22.97	/	-1.15	1.00	/	21.82	/	34.77	PASS
25			0	/	22.43	/	-1.15	1.00	/	21.28	/	34.77
		13	/	22.16	/	-1.15	1.00	/	21.01	/	34.77	PASS
		25	/	21.56	/	-1.15	1.00	/	20.41	/	34.77	PASS
50		0	/	21.91	/	-1.15	1.00	/	20.76	/	34.77	PASS



Test Band: 41 _ 5MHz Bandwidth																
Modulation	RB Allocation		Conducted Power (dBm)					Antenna gain		EIRP(dBm)					Limit (dBm)	
	Size	Offset	LCH	MCH1	MCH2	MCH3	HCH	(dBd)	(dBi)	LCH	MCH1	MCH2	MCH3	HCH		
QPSK	1	0	23.37	24.14	24.19	23.78	23.79	/	1	24.37	25.14	25.19	24.78	24.79	33.01	PASS
		13	23.39	24.59	24.59	23.90	23.93	/	1	24.39	25.59	25.59	24.90	24.93	33.01	PASS
		24	23.44	24.72	24.72	23.68	23.73	/	1	24.44	25.72	25.72	24.68	24.73	33.01	PASS
	12	0	22.64	23.59	23.61	23.10	23.14	/	1	23.64	24.59	24.61	24.10	24.14	33.01	PASS
		6	22.77	23.77	23.79	23.04	23.07	/	1	23.77	24.77	24.79	24.04	24.07	33.01	PASS
		13	22.81	23.88	23.91	23.02	23.05	/	1	23.81	24.88	24.91	24.02	24.05	33.01	PASS
	25	0	22.8	23.77	23.78	23.10	23.13	/	1	23.8	24.77	24.78	24.10	24.13	33.01	PASS
	22.84		23.28	23.32	23.34	23.34	/	1	23.84	24.28	24.32	24.34	24.34	33.01	PASS	
	16QAM	1	13	23.01	23.75	23.77	23.59	23.61	/	1	24.01	24.75	24.77	24.59	24.61	33.01
24			23.26	23.67	23.7	23.19	23.23	/	1	24.26	24.67	24.7	24.19	24.23	33.01	PASS
0			21.64	22.41	22.43	21.88	21.9	/	1	22.64	23.41	23.43	22.88	22.9	33.01	PASS
12		6	21.67	22.65	22.66	21.93	21.95	/	1	22.67	23.65	23.66	22.93	22.95	33.01	PASS
		13	21.6	22.81	22.83	21.73	21.77	/	1	22.6	23.81	23.83	22.73	22.77	33.01	PASS
		25	0	21.68	22.82	22.86	22.01	22.04	/	1	22.68	23.82	23.86	23.01	23.04	33.01

Test Band: 41 _ 10MHz Bandwidth																
Modulation	RB Allocation		Conducted Power (dBm)					Antenna gain		EIRP(dBm)					Limit (dBm)	Verdict
	Size	Offset	LCH	MCH1	MCH2	MCH3	HCH	(dBd)	(dBi)	LCH	MCH1	MCH2	MCH3	HCH		
QPSK	1	0	23.43	24.18	24.22	23.81	23.86	/	1	24.43	25.18	25.22	24.81	24.86	33.01	PASS
		25	23.71	24.86	24.89	24.00	24.03	/	1	24.71	25.86	25.89	25.00	25.03	33.01	PASS
		49	23.94	25.12	25.17	24.02	24.06	/	1	24.94	26.12	26.17	25.02	25.06	33.01	PASS
	25	0	22.79	23.51	23.55	23.02	23.07	/	1	23.79	24.51	24.55	24.02	24.07	33.01	PASS
		13	22.98	23.83	23.84	23.05	23.07	/	1	23.98	24.83	24.84	24.05	24.07	33.01	PASS
		25	23.05	23.91	23.93	23.05	23.07	/	1	24.05	24.91	24.93	24.05	24.07	33.01	PASS
	50	0	22.93	23.64	23.68	22.97	23	/	1	23.93	24.64	24.68	23.97	24	33.01	PASS
	22.96		23.80	23.81	22.31	22.33	/	1	23.96	24.80	24.81	23.31	23.33	33.01	PASS	
	16QAM	1	25	23.74	24.35	24.37	22.87	22.88	/	1	24.74	25.35	25.37	23.87	23.88	33.01
49			23.27	24.56	24.6	22.45	22.46	/	1	24.27	25.56	25.6	23.45	23.46	33.01	PASS
0			21.71	22.48	22.51	21.96	22	/	1	22.71	23.48	23.51	22.96	23	33.01	PASS
25		13	21.95	22.64	22.66	22.04	22.09	/	1	22.95	23.64	23.66	23.04	23.09	33.01	PASS
		25	22.15	22.86	22.87	22.12	22.13	/	1	23.15	23.86	23.87	23.12	23.13	33.01	PASS
50		0	21.81	22.64	22.68	21.98	22	/	1	22.81	23.64	23.68	22.98	23	33.01	PASS



Test Band: 41 _ 15MHz Bandwidth																
Modulation	RB Allocation		Conducted Power (dBm)					Antenna gain		EIRP(dBm)					Limit (dBm)	Verdict
	Size	Offset	LCH	MCH1	MCH2	MCH3	HCH	(dBd)	(dBi)	LCH	MCH1	MCH2	MCH3	HCH		
QPSK	1	0	23.49	24.02	24.07	23.49	23.51	/	1	24.49	25.02	25.07	24.49	24.51	33.01	PASS
		38	23.72	24.93	24.97	23.80	23.85	/	1	24.72	25.93	25.97	24.80	24.85	33.01	PASS
		74	23.87	25.22	25.24	23.96	23.99	/	1	24.87	26.22	26.24	24.96	24.99	33.01	PASS
	36	0	22.72	23.36	23.4	22.76	22.79	/	1	23.72	24.36	24.4	23.76	23.79	33.01	PASS
		18	22.9	23.78	23.81	22.98	22.99	/	1	23.9	24.78	24.81	23.98	23.99	33.01	PASS
		39	23.09	24.04	24.08	23.07	23.1	/	1	24.09	25.04	25.08	24.07	24.1	33.01	PASS
	75	0	22.96	23.72	23.73	22.87	22.9	/	1	23.96	24.72	24.73	23.87	23.9	33.01	PASS
		0	22.77	23.42	23.44	22.04	22.07	/	1	23.77	24.42	24.44	23.04	23.07	33.01	PASS
		0	22.77	23.42	23.44	22.04	22.07	/	1	23.77	24.42	24.44	23.04	23.07	33.01	PASS
16QAM	1	38	22.65	24.13	24.17	22.70	22.7	/	1	23.65	25.13	25.17	23.70	23.7	33.01	PASS
		74	22.82	24.57	24.61	22.71	22.73	/	1	23.82	25.57	25.61	23.71	23.73	33.01	PASS
		0	21.59	22.28	22.29	21.57	21.57	/	1	22.59	23.28	23.29	22.57	22.57	33.01	PASS
	36	18	21.85	22.71	22.75	21.74	21.77	/	1	22.85	23.71	23.75	22.74	22.77	33.01	PASS
		39	21.92	22.95	22.98	21.76	21.76	/	1	22.92	23.95	23.98	22.76	22.76	33.01	PASS
		0	21.83	22.66	22.66	22.00	22.03	/	1	22.83	23.66	23.66	23.00	23.03	33.01	PASS
	75	0	21.83	22.66	22.66	22.00	22.03	/	1	22.83	23.66	23.66	23.00	23.03	33.01	PASS
		0	21.83	22.66	22.66	22.00	22.03	/	1	22.83	23.66	23.66	23.00	23.03	33.01	PASS
		0	21.83	22.66	22.66	22.00	22.03	/	1	22.83	23.66	23.66	23.00	23.03	33.01	PASS

Test Band: 41 _ 20MHz Bandwidth																
Modulation	RB Allocation		Conducted Power (dBm)					Antenna gain		EIRP(dBm)					Limit (dBm)	Verdict
	Size	Offset	LCH	MCH1	MCH2	MCH3	HCH	(dBd)	(dBi)	LCH	MCH1	MCH2	MCH3	HCH		
QPSK	1	0	23.41	23.77	23.82	23.38	23.4	/	1	24.41	24.77	24.82	24.38	24.4	33.01	PASS
		50	24.28	24.79	24.83	23.73	23.75	/	1	25.28	25.79	25.83	24.73	24.75	33.01	PASS
		99	23.93	24.85	24.87	23.67	23.71	/	1	24.93	25.85	25.87	24.67	24.71	33.01	PASS
	50	0	22.78	23.27	23.29	22.77	22.78	/	1	23.78	24.27	24.29	23.77	23.78	33.01	PASS
		25	23.04	23.83	23.86	22.82	22.84	/	1	24.04	24.83	24.86	23.82	23.84	33.01	PASS
		50	23.06	24.12	24.13	23.01	23.06	/	1	24.06	25.12	25.13	24.01	24.06	33.01	PASS
	100	0	22.99	23.66	23.67	22.91	22.92	/	1	23.99	24.66	24.67	23.91	23.92	33.01	PASS
		0	22.87	22.65	22.67	23.02	23.05	/	1	23.87	23.65	23.67	24.02	24.05	33.01	PASS
		0	22.87	22.65	22.67	23.02	23.05	/	1	23.87	23.65	23.67	24.02	24.05	33.01	PASS
16QAM	1	50	23.75	23.80	23.82	23.41	23.44	/	1	24.75	24.80	24.82	24.41	24.44	33.01	PASS
		99	22.88	23.74	23.77	23.55	23.56	/	1	23.88	24.74	24.77	24.55	24.56	33.01	PASS
		0	21.68	22.35	22.35	21.83	21.86	/	1	22.68	23.35	23.35	22.83	22.86	33.01	PASS
	50	25	22.03	22.76	22.78	21.92	21.92	/	1	23.03	23.76	23.78	22.92	22.92	33.01	PASS
		50	22.19	22.95	22.97	22.03	22.03	/	1	23.19	23.95	23.97	23.03	23.03	33.01	PASS
		0	21.94	22.55	22.59	21.85	21.88	/	1	22.94	23.55	23.59	22.85	22.88	33.01	PASS
	100	0	21.94	22.55	22.59	21.85	21.88	/	1	22.94	23.55	23.59	22.85	22.88	33.01	PASS
		0	21.94	22.55	22.59	21.85	21.88	/	1	22.94	23.55	23.59	22.85	22.88	33.01	PASS
		0	21.94	22.55	22.59	21.85	21.88	/	1	22.94	23.55	23.59	22.85	22.88	33.01	PASS



Test Band: 66 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.17	24.36	24.18	/	1.00	24.17	25.36	25.18	30.00	PASS
		2	23.29	24.59	24.20	/	1.00	24.29	25.59	25.20	30.00	PASS
		5	23.30	24.52	24.13	/	1.00	24.30	25.52	25.13	30.00	PASS
	3	0	23.16	24.26	24.19	/	1.00	24.16	25.26	25.19	30.00	PASS
		2	23.20	24.32	24.09	/	1.00	24.20	25.32	25.09	30.00	PASS
		3	23.42	24.38	24.13	/	1.00	24.42	25.38	25.13	30.00	PASS
	6	0	22.34	23.46	23.13	/	1.00	23.34	24.46	24.13	30.00	PASS
	22.09		23.69	23.43	/	1.00	23.09	24.69	24.43	30.00	PASS	
	16QAM	1	2	22.31	23.75	23.51	/	1.00	23.31	24.75	24.51	30.00
5			22.40	23.74	23.39	/	1.00	23.40	24.74	24.39	30.00	PASS
3			0	22.06	23.48	22.90	/	1.00	23.06	24.48	23.90	30.00
		2	22.27	23.53	22.92	/	1.00	23.27	24.53	23.92	30.00	PASS
		3	22.31	23.48	22.75	/	1.00	23.31	24.48	23.75	30.00	PASS
6		0	21.35	22.57	22.01	/	1.00	22.35	23.57	23.01	30.00	PASS

Test Band: 66 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.18	24.04	23.84	/	1.00	24.18	25.04	24.84	30.00	PASS
		7	23.40	24.44	23.95	/	1.00	24.40	25.44	24.95	30.00	PASS
		14	23.56	24.65	24.15	/	1.00	24.56	25.65	25.15	30.00	PASS
	8	0	22.27	23.37	23.11	/	1.00	23.27	24.37	24.11	30.00	PASS
		4	22.40	23.40	23.15	/	1.00	23.40	24.40	24.15	30.00	PASS
		7	22.53	23.47	23.12	/	1.00	23.53	24.47	24.12	30.00	PASS
	15	0	22.47	23.35	23.13	/	1.00	23.47	24.35	24.13	30.00	PASS
	21.91		23.53	22.78	/	1.00	22.91	24.53	23.78	30.00	PASS	
	16QAM	1	7	22.20	23.80	23.07	/	1.00	23.20	24.80	24.07	30.00
14			22.45	23.61	23.15	/	1.00	23.45	24.61	24.15	30.00	PASS
0			21.21	22.59	22.14	/	1.00	22.21	23.59	23.14	30.00	PASS
8		4	21.26	22.66	22.20	/	1.00	22.26	23.66	23.20	30.00	PASS
		7	21.41	22.70	22.18	/	1.00	22.41	23.70	23.18	30.00	PASS
		0	21.21	22.21	22.14	/	1.00	22.21	23.21	23.14	30.00	PASS



Test Band: 66 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.13	23.94	23.72	/	1.00	24.13	24.94	24.72	30.00	PASS
		13	23.55	24.41	23.99	/	1.00	24.55	25.41	24.99	30.00	PASS
		24	23.67	24.47	24.04	/	1.00	24.67	25.47	25.04	30.00	PASS
	12	0	22.38	23.30	22.88	/	1.00	23.38	24.30	23.88	30.00	PASS
		6	22.63	23.43	22.99	/	1.00	23.63	24.43	23.99	30.00	PASS
		13	22.66	23.55	23.09	/	1.00	23.66	24.55	24.09	30.00	PASS
	25	0	22.50	23.38	22.95	/	1.00	23.50	24.38	23.95	30.00	PASS
	22.24		23.33	22.43	/	1.00	23.24	24.33	23.43	30.00	PASS	
	16QAM	1	13	22.84	23.88	22.74	/	1.00	23.84	24.88	23.74	30.00
24			23.02	24.03	22.69	/	1.00	24.02	25.03	23.69	30.00	PASS
12			0	21.23	22.27	21.74	/	1.00	22.23	23.27	22.74	30.00
		6	21.38	22.43	21.95	/	1.00	22.38	23.43	22.95	30.00	PASS
		13	21.69	22.18	22.03	/	1.00	22.69	23.18	23.03	30.00	PASS
25		0	21.39	22.40	22.02	/	1.00	22.39	23.40	23.02	30.00	PASS

Test Band: 66 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.42	23.93	23.06	/	1.00	24.42	24.93	24.06	30.00	PASS
		25	24.31	24.67	23.92	/	1.00	25.31	25.67	24.92	30.00	PASS
		49	24.35	24.51	23.97	/	1.00	25.35	25.51	24.97	30.00	PASS
	25	0	22.61	23.22	22.48	/	1.00	23.61	24.22	23.48	30.00	PASS
		13	23.00	23.56	22.76	/	1.00	24.00	24.56	23.76	30.00	PASS
		25	23.24	23.66	22.92	/	1.00	24.24	24.66	23.92	30.00	PASS
	50	0	22.93	23.39	22.71	/	1.00	23.93	24.39	23.71	30.00	PASS
	22.64		22.96	21.83	/	1.00	23.64	23.96	22.83	30.00	PASS	
	16QAM	1	25	23.84	24.18	22.71	/	1.00	24.84	25.18	23.71	30.00
49			23.71	23.72	23.07	/	1.00	24.71	24.72	24.07	30.00	PASS
25			0	21.76	22.18	21.61	/	1.00	22.76	23.18	22.61	30.00
		13	22.08	22.54	21.90	/	1.00	23.08	23.54	22.90	30.00	PASS
		25	22.06	22.51	21.85	/	1.00	23.06	23.51	22.85	30.00	PASS
50		0	21.81	22.29	21.72	/	1.00	22.81	23.29	22.72	30.00	PASS



Test Band: 66 _ 15MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.13	23.88	22.76	/	1.00	24.13	24.88	23.76	30.00	PASS	
		38	24.27	24.71	23.44	/	1.00	25.27	25.71	24.44	30.00	PASS	
		74	24.43	24.64	24.06	/	1.00	25.43	25.64	25.06	30.00	PASS	
	36	0	22.85	23.15	22.13	/	1.00	23.85	24.15	23.13	30.00	PASS	
		18	23.35	23.50	22.37	/	1.00	24.35	24.50	23.37	30.00	PASS	
		39	23.57	23.68	22.78	/	1.00	24.57	24.68	23.78	30.00	PASS	
	75	0	23.28	23.42	22.43	/	1.00	24.28	24.42	23.43	30.00	PASS	
	22.57		23.33	21.35	/	1.00	23.57	24.33	22.35	30.00	PASS		
	16QAM	1	38	23.52	23.83	22.27	/	1.00	24.52	24.83	23.27	30.00	PASS
			74	23.01	23.90	23.17	/	1.00	24.01	24.90	24.17	30.00	PASS
36			0	21.90	22.04	21.09	/	1.00	22.90	23.04	22.09	30.00	PASS
		18	22.42	22.54	21.38	/	1.00	23.42	23.54	22.38	30.00	PASS	
		39	22.41	22.70	21.60	/	1.00	23.41	23.70	22.60	30.00	PASS	
75		0	22.19	22.32	21.35	/	1.00	23.19	23.32	22.35	30.00	PASS	

Test Band: 66 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.37	23.80	23.15	/	1.00	24.37	24.80	24.15	30.00	PASS
		50	24.90	24.66	23.46	/	1.00	25.90	25.66	24.46	30.00	PASS
		99	24.41	24.37	23.97	/	1.00	25.41	25.37	24.97	30.00	PASS
	50	0	23.13	23.10	22.09	/	1.00	24.13	24.10	23.09	30.00	PASS
		25	23.62	23.61	22.23	/	1.00	24.62	24.61	23.23	30.00	PASS
		50	23.60	23.66	22.61	/	1.00	24.60	24.66	23.61	30.00	PASS
	100	0	23.43	23.44	22.40	/	1.00	24.43	24.44	23.40	30.00	PASS
	22.73		22.82	22.69	/	1.00	23.73	23.82	23.69	30.00	PASS	
	16QAM	1	50	24.30	23.49	22.92	/	1.00	25.30	24.49	23.92	30.00
99			23.88	23.33	22.92	/	1.00	24.88	24.33	23.92	30.00	PASS
50			0	21.98	22.12	21.08	/	1.00	22.98	23.12	22.08	30.00
		25	22.39	22.56	21.18	/	1.00	23.39	23.56	22.18	30.00	PASS
		50	22.47	22.57	21.54	/	1.00	23.47	23.57	22.54	30.00	PASS
100		0	22.44	22.42	21.36	/	1.00	23.44	23.42	22.36	30.00	PASS



Test Band: 71 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	24.55	23.22	24.20	-1.15	1.00	23.40	22.07	23.05	34.77	PASS
		13	24.43	23.38	24.23	-1.15	1.00	23.28	22.23	23.08	34.77	PASS
		24	23.89	23.37	24.17	-1.15	1.00	22.74	22.22	23.02	34.77	PASS
	12	0	23.43	22.44	23.37	-1.15	1.00	22.28	21.29	22.22	34.77	PASS
		6	23.59	22.45	23.51	-1.15	1.00	22.44	21.30	22.36	34.77	PASS
		13	23.27	22.40	23.37	-1.15	1.00	22.12	21.26	22.22	34.77	PASS
	25	0	23.43	22.38	23.33	-1.15	1.00	22.28	21.23	22.18	34.77	PASS
	23.50		22.47	22.80	-1.15	1.00	22.35	21.32	21.65	34.77	PASS	
	16QAM	1	13	23.91	22.92	23.61	-1.15	1.00	22.76	21.77	22.46	34.77
24			23.11	22.79	23.57	-1.15	1.00	21.96	21.64	22.42	34.77	PASS
12			0	22.51	21.37	22.28	-1.15	1.00	21.36	20.22	21.13	34.77
		6	22.66	21.51	22.55	-1.15	1.00	21.51	20.36	21.40	34.77	PASS
		13	22.48	21.58	22.40	-1.15	1.00	21.33	20.43	21.25	34.77	PASS
25		0	22.40	21.52	22.26	-1.15	1.00	21.25	20.37	21.11	34.77	PASS

Test Band: 71 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	24.46	23.36	24.00	-1.15	1.00	23.31	22.21	22.85	34.77	PASS
		25	24.38	23.96	24.40	-1.15	1.00	23.23	22.81	23.25	34.77	PASS
		49	23.47	23.74	24.30	-1.15	1.00	22.32	22.59	23.15	34.77	PASS
	25	0	23.55	22.54	23.26	-1.15	1.00	22.40	21.39	22.11	34.77	PASS
		13	23.26	22.64	23.55	-1.15	1.00	22.11	21.49	22.40	34.77	PASS
		25	23.02	22.66	23.47	-1.15	1.00	21.87	21.51	22.32	34.77	PASS
	50	0	23.27	22.53	23.33	-1.15	1.00	22.12	21.38	22.18	34.77	PASS
	23.61		22.76	23.15	-1.15	1.00	22.46	21.61	22.00	34.77	PASS	
	16QAM	1	25	23.60	22.83	23.61	-1.15	1.00	22.45	21.68	22.46	34.77
49			22.64	23.30	23.40	-1.15	1.00	21.49	22.15	22.25	34.77	PASS
25			0	22.73	21.80	22.37	-1.15	1.00	21.58	20.65	21.22	34.77
		13	22.41	21.82	22.66	-1.15	1.00	21.26	20.67	21.51	34.77	PASS
		25	22.02	21.97	22.60	-1.15	1.00	20.87	20.82	21.45	34.77	PASS
50		0	22.25	21.57	22.51	-1.15	1.00	21.10	20.42	21.36	34.77	PASS



Test Band: 71 _ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	24.39	23.35	23.45	-1.15	1.00	23.24	22.20	22.30	34.77	PASS
		38	23.63	23.46	24.17	-1.15	1.00	22.48	22.31	23.02	34.77	PASS
		74	23.13	23.79	24.29	-1.15	1.00	21.98	22.64	23.14	34.77	PASS
	36	0	23.24	22.40	22.98	-1.15	1.00	22.09	21.25	21.83	34.77	PASS
		18	22.79	22.49	23.29	-1.15	1.00	21.64	21.34	22.14	34.77	PASS
		39	22.51	22.62	23.48	-1.15	1.00	21.36	21.47	22.33	34.77	PASS
	75	0	22.99	22.49	23.21	-1.15	1.00	21.84	21.34	22.06	34.77	PASS
	23.44		22.84	22.63	-1.15	1.00	22.29	21.69	21.48	34.77	PASS	
	16QAM	1	38	22.95	23.35	23.48	-1.15	1.00	21.80	22.20	22.33	34.77
74			22.14	23.41	23.65	-1.15	1.00	20.99	22.26	22.50	34.77	PASS
36			0	22.37	21.42	21.99	-1.15	1.00	21.22	20.27	20.84	34.77
		18	21.77	21.46	22.30	-1.15	1.00	20.62	20.31	21.15	34.77	PASS
		39	21.45	21.45	22.45	-1.15	1.00	20.30	20.30	21.30	34.77	PASS
75		0	21.92	21.38	22.29	-1.15	1.00	20.77	20.23	21.14	34.77	PASS

Test Band: 71 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.91	22.84	22.86	-1.15	1.00	22.76	21.69	21.71	34.77	PASS
		50	24.17	23.64	24.19	-1.15	1.00	23.02	22.49	23.04	34.77	PASS
		99	23.07	24.06	24.05	-1.15	1.00	21.92	22.91	22.90	34.77	PASS
	50	0	23.00	22.36	22.51	-1.15	1.00	21.85	21.21	21.36	34.77	PASS
		25	22.62	22.46	23.09	-1.15	1.00	21.47	21.31	21.94	34.77	PASS
		50	22.31	22.69	23.27	-1.15	1.00	21.16	21.54	22.12	34.77	PASS
	100	0	22.73	22.53	22.93	-1.15	1.00	21.58	21.38	21.78	34.77	PASS
	23.10		22.22	22.51	-1.15	1.00	21.95	21.07	21.36	34.77	PASS	
	16QAM	1	50	23.98	22.23	23.79	-1.15	1.00	22.83	21.08	22.64	34.77
99			23.00	22.48	23.52	-1.15	1.00	21.85	21.33	22.37	34.77	PASS
50			0	22.03	21.69	21.68	-1.15	1.00	20.88	20.54	20.53	34.77
		25	21.74	21.50	22.16	-1.15	1.00	20.59	20.35	21.01	34.77	PASS
		50	21.28	21.64	22.38	-1.15	1.00	20.13	20.49	21.23	34.77	PASS
100		0	21.69	21.33	22.04	-1.15	1.00	20.54	20.18	20.89	34.77	PASS