



# TEST REPORT

**APPLICANT** : Reliance Communications LLC

**PRODUCT NAME** : Orbic Speed 5G

**MODEL NAME** : R500L5S6

**BRAND NAME** : Orbic

**FCC ID** : 2ABGH-R500L5S6

**STANDARD(S)** : 47 CFR Part 15 Subpart B

**RECEIPT DATE** : 2022-05-16

**TEST DATE** : 2022-07-12 to 2022-07-20

**ISSUE DATE** : 2022-08-18

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# DIRECTORY

- 1.1. Technical Information ..... 3
- 1.2. Applicant and Manufacturer Information ..... 3
- 1.3. Equipment Under Test (EUT) Description ..... 3
- 2. Test Results ..... 6
- 2.1. Applied Reference Documents ..... 6
- 2.2. EUT Setup and Operating Conditions ..... 7
- 3. 47 CFR Part 15B Requirements ..... 8
- 3.1. Conducted Emission ..... 8
- 3.2. Radiated Emission ..... 12
- Annex A Test Uncertainty ..... 19
- Annex B Testing Laboratory Information ..... 20

Change History		
Version	Date	Reason for Change
1.0	2022-08-18	First edition



## 1.1. Technical Information

Note: Provide by applicant

## 1.2. Applicant and Manufacturer Information

<b>Applicant:</b>	Reliance Communications LLC
<b>Applicant Address:</b>	1560 Fifth Ave BayShore, NY 11706
<b>Manufacturer:</b>	Unimaxcomm
<b>Manufacturer Address:</b>	Room 602, Floor 6th, Building B, Software Park T3,Hi-Tech Park South, Nanshan District, Shenzhen, P.R. China

## 1.3. Equipment Under Test (EUT) Description

<b>Product Name:</b>	Orbic Speed 5G
<b>EUT No:</b>	7#,8#,51#
<b>Hardware Version:</b>	V1.2
<b>Software Version:</b>	ORB500L5S6_V1.0.6_BVT-NA
<b>Tx Frequency:</b>	WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2:1850 MHz ~ 1910 MHz 5G NR n5:824 MHz ~ 849 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66:1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3300 MHz ~ 4200 MHz 5G NR n78: 3300 MHz ~ 3800 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n/ax: 5180 MHz ~ 5240 MHz;5745 MHz ~ 5825 MHz



<b>Rx Frequency:</b>	WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA BandIV:2110 MHz ~ 2155 MHz WCDMA Band V: 869 MHz ~ 894 MHz LTE Band 2: 1930 MHz ~ 1990 MHz LTE Band 4: 2110 MHz ~ 2155 MHz LTE Band 5: 869 MHz ~ 894 MHz LTE Band 12: 729 MHz ~ 746 MHz LTE Band 13: 746 MHz ~ 756 MHz LTE Band 17: 734 MHz ~ 746 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 2110 MHz ~ 2180MHz LTE Band 71: 617 MHz ~ 652 MHz 5G NR n2: 1930 MHz ~ 1990 MHz 5G NR n5: 869 MHz ~ 894 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 2110 MHz ~ 2180MHz 5G NR n71: 617 MHz ~ 652 MHz 5G NR n77: 3300 MHz ~ 4200 MHz 5G NR n78: 3300 MHz ~ 3800 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n/ax: 5180 MHz ~ 5240 MHz;5745 MHz ~ 5825 MHz																															
<b>Ancillary Equipment:</b>	<table border="1"> <tr> <td colspan="2" data-bbox="507 1178 1445 1211"><b>AC Adapter</b></td> </tr> <tr> <td data-bbox="507 1223 722 1256">Brand Name:</td> <td data-bbox="730 1223 1445 1256">Orbic</td> </tr> <tr> <td data-bbox="507 1267 722 1301">Model No.:</td> <td data-bbox="730 1267 1445 1301">TPA-23A050200UU01</td> </tr> <tr> <td data-bbox="507 1312 722 1346">Serial No.:</td> <td data-bbox="730 1312 1445 1346">(N/A, marked #1 by test site)</td> </tr> <tr> <td data-bbox="507 1357 722 1391">Rated Input:</td> <td data-bbox="730 1357 1445 1391">100-240V~ 50/60Hz,0.3A</td> </tr> <tr> <td data-bbox="507 1402 722 1435">Rated Output:</td> <td data-bbox="730 1402 1445 1435">5V=2A</td> </tr> <tr> <td data-bbox="507 1447 722 1480">Manufacturer:</td> <td data-bbox="730 1447 1445 1480">Dongguan summer electronics Co., LTD</td> </tr> <tr> <td colspan="2" data-bbox="507 1491 1445 1525"><b>Battery</b></td> </tr> <tr> <td data-bbox="507 1536 722 1570">Brand Name:</td> <td data-bbox="730 1536 1445 1570">Orbic</td> </tr> <tr> <td data-bbox="507 1581 722 1615">Model No.:</td> <td data-bbox="730 1581 1445 1615">BTE-4401</td> </tr> <tr> <td data-bbox="507 1626 722 1659">Serial No.:</td> <td data-bbox="730 1626 1445 1659">(N/A, marked #1 by test site)</td> </tr> <tr> <td data-bbox="507 1671 722 1704">Capacity:</td> <td data-bbox="730 1671 1445 1704">4400mAh</td> </tr> <tr> <td data-bbox="507 1715 722 1749">Rated Voltage:</td> <td data-bbox="730 1715 1445 1749">3.8V</td> </tr> <tr> <td data-bbox="507 1760 722 1794">Charge Limit:</td> <td data-bbox="730 1760 1445 1794">4.35V</td> </tr> <tr> <td data-bbox="507 1805 722 1868">Manufacturer:</td> <td data-bbox="730 1805 1445 1868">HUIZHOU DXDRAGON INC</td> </tr> </table>		<b>AC Adapter</b>		Brand Name:	Orbic	Model No.:	TPA-23A050200UU01	Serial No.:	(N/A, marked #1 by test site)	Rated Input:	100-240V~ 50/60Hz,0.3A	Rated Output:	5V=2A	Manufacturer:	Dongguan summer electronics Co., LTD	<b>Battery</b>		Brand Name:	Orbic	Model No.:	BTE-4401	Serial No.:	(N/A, marked #1 by test site)	Capacity:	4400mAh	Rated Voltage:	3.8V	Charge Limit:	4.35V	Manufacturer:	HUIZHOU DXDRAGON INC
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**Note:**

1. This test report is variant from the original report (Report No.: SZ22050178E01, Model Name: R500L5S6) based on the similarity between before, only enable LTE B17 by software. However, there is no other evaluation for LTE B17 due to the band is completely covered by LTE B12 and its power level setting also same as LTE B12. The other are the same as before. We evaluated the above changes, which had no impact on the test results. The test results in this report still refer to the test results of the original test report.
2. For a more detailed description, please refer to specification or user's manual supplied by the applicant and/or manufacturer.



## 2. Test Results

### 2.1. Applied Reference Documents

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination Remark
1	15.107	Conducted Emission	2022.07.20	Wu Zhaoling	PASS <sup>Note 3</sup>	No deviation
2	15.109	Radiated Emission	2022.07.12	Yin Xiaogang	PASS <sup>Note 3</sup>	No deviation

**Note 1:** Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

**Note 2:** When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

**Note 3:** The test results of these test items in this report refer to the test report (Report No.: SZ22050178E01).



## 2.2. EUT Setup and Operating Conditions

Note: All of the following test modes are tested in all the test items.

Test Modes	
<b>Mode 1</b>	<b>WCDMA Band II Idle + 2.4G WLAN Idle + SIM Card +Data Cable + AC Adapter + Ping Network Mode</b>
Mode 2	WCDMA Band IV Idle+ 5G WLAN Idle+ AC Adapter + SIM Card +Data Cable
Mode 3	WCDMA Band V Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 4	LTE Band 2 Idle+ 2.4 WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 5	LTE Band 4 Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 6	LTE Band 5 Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 7	LTE Band 12 Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 8	LTE Band 13 Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 9	LTE Band 41 Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 10	LTE Band 48 Idle+ 2.4G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 11	LTE Band 66 Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 12	LTE Band 71 Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 13	DC_66A_n2A Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 14	DC_2A_n5A Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 15	DC_2A_n41A Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 17	DC_12A_n66A Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 18	DC_66A_n71A Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 19	DC_5A_n77A Idle+ 2.4G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 20	DC_66A_n78A Idle+ 5G WLAN Idle+ AC Adapter + SIM Card + Data Cable
Mode 21	LTE Band 41 Idle+ 5G WLAN Idle+ Adapter + SIM Card + Data Cable + PC + PC Adapter + Data Transmission Mode
Mode 22	LTE Band 17 Idle+ 2.4G WLAN Idle+ AC Adapter + SIM Card + Data Cable
<b>Remark:</b>	
The above test mode in boldface (Mode 1) was the worst case of conducted emission and radiated emission test, only the test data of these modes were reported.	

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86 - 106

## 3. 47 CFR Part 15B Requirements

### 3.1. Conducted Emission

#### 3.1.1. Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

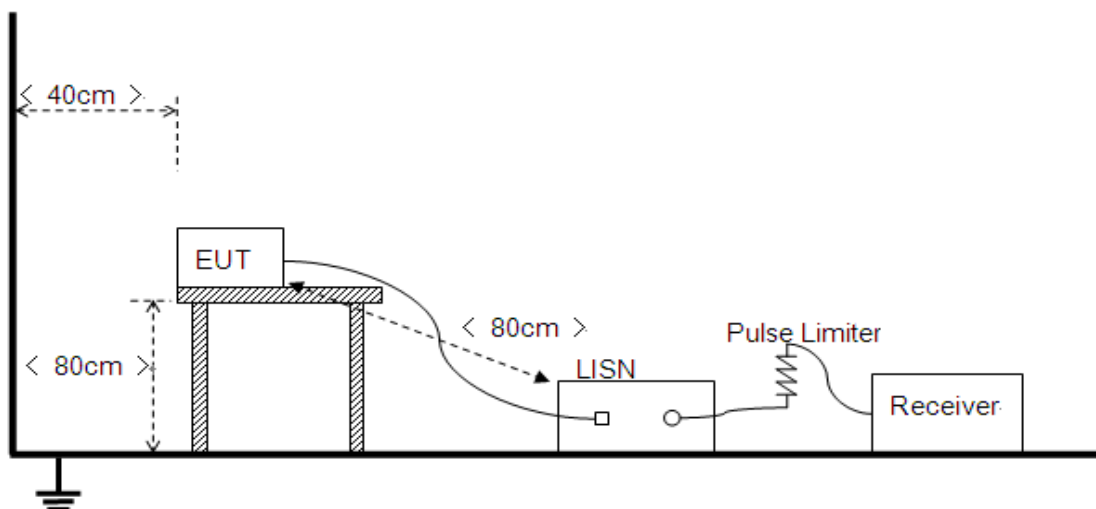
Frequency Range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- The limit subjects to the Class B digital device.
- The lower limit shall apply at the band edges.
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

#### 3.1.2. Test Setup

Please refer to Annex A for the photographs of the Test Configuration.







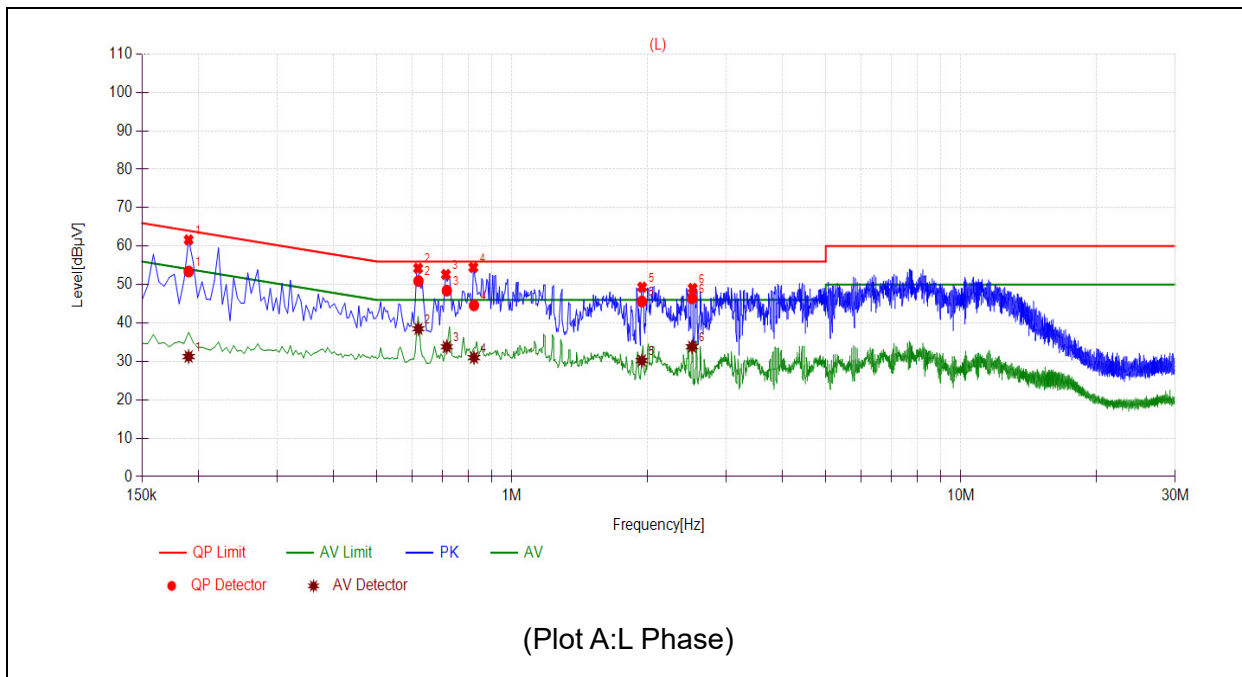
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides  $50\Omega/50\mu\text{H}$  of coupling impedance for the measuring instrument. A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

The power strip or extension cord has been investigated to make sure that the LISN integrity is maintained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

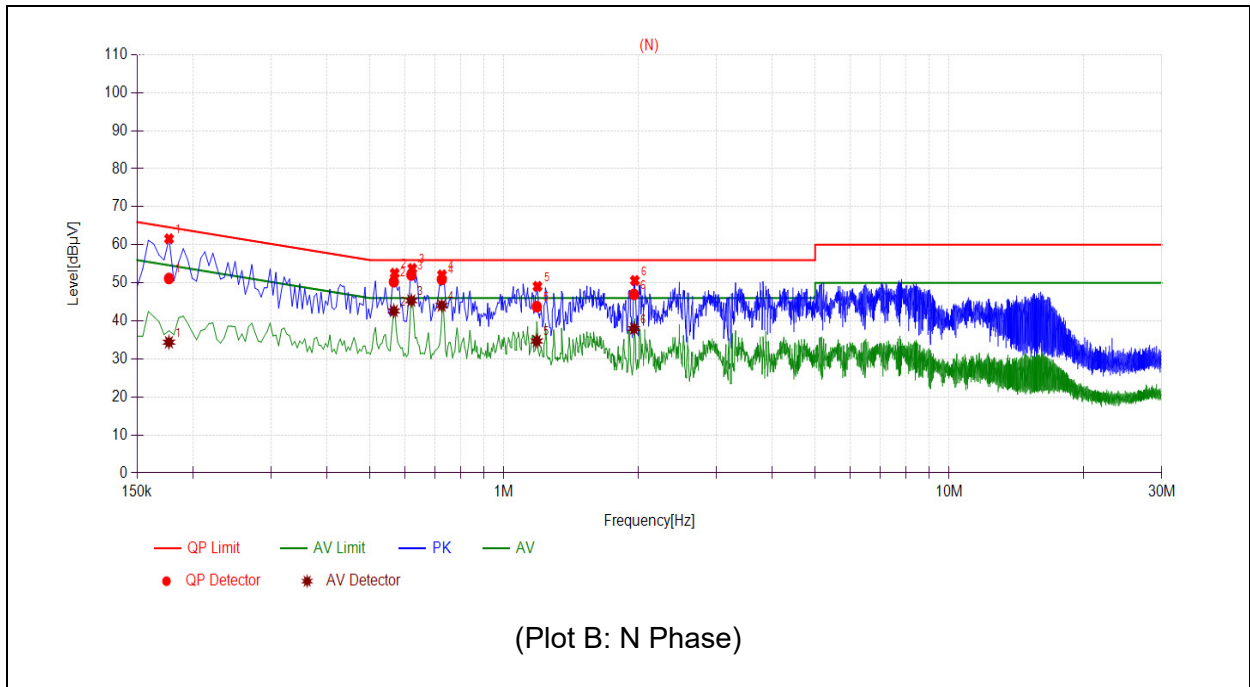
### 3.1.3. Test Result

Set RBW=9 kHz, VBW=30 kHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

**A. Test Plot and Suspicious Points:**



NO.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1905	53.40	31.25	64.01	54.01	Line	PASS
2	0.6190	50.92	38.49	56.00	46.00		PASS
3	0.7158	48.42	33.79	56.00	46.00		PASS
4	0.8231	44.60	30.98	56.00	46.00		PASS
5	1.9466	45.58	30.23	56.00	46.00		PASS
6	2.5187	46.41	33.82	56.00	46.00		PASS



NO.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1769	51.15	34.40	64.63	54.63	Neutral	PASS
2	0.5659	50.30	42.62	56.00	46.00		PASS
3	0.6194	52.07	45.33	56.00	46.00		PASS
4	0.7250	50.91	44.04	56.00	46.00		PASS
5	1.1850	43.74	34.71	56.00	46.00		PASS
6	1.9582	46.98	37.97	56.00	46.00		PASS



### 3.2. Radiated Emission

#### 3.2.1. Requirement

According to FCC section 15.109 (a), the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency Range (MHz)	Field Strength Limitation at 3m Measurement Dist	
	( $\mu\text{V/m}$ )	( $\text{dB}\mu\text{V/m}$ )
30.0 - 88.0	100	20log 100
88.0 - 216.0	150	20log 150
216.0 - 960.0	200	20log 200
Above 960.0	500	20log 500

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Note:

- 1) The tighter limit shall apply at the boundary between two frequency range.
- 2) Limitation expressed in  $\text{dB}\mu\text{V/m}$  is calculated by  $20\log$  Emission Level( $\mu\text{V/m}$ ).

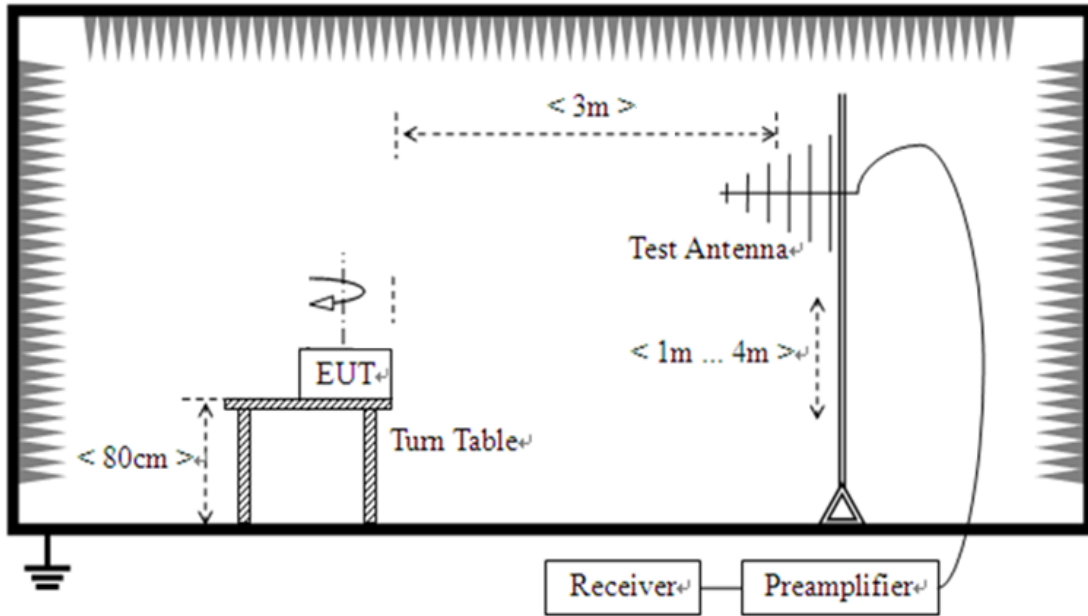
#### 3.2.2. Frequency Range of Measurement

According to 15.33(b)(1), the frequency range of radiated measurement for the EUT is listed in the following table:

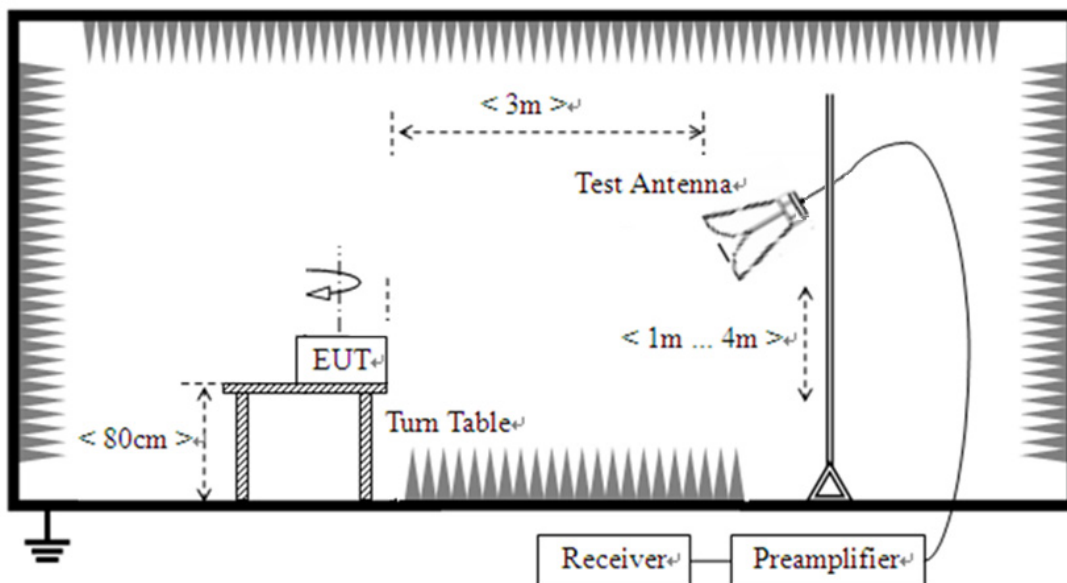
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705 .....	30.
1.705-108 .....	1000.
108-500 .....	2000.
500-1000 .....	5000.
Above 1000 .....	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

### 3.2.3. Test Setup

- 1) For radiated emissions from 30MHz to 1GHz



- 2) For radiated emissions above 1GHz





The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on variable-height antenna master tower.

For the test Antenna:

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

For measurements below 1GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

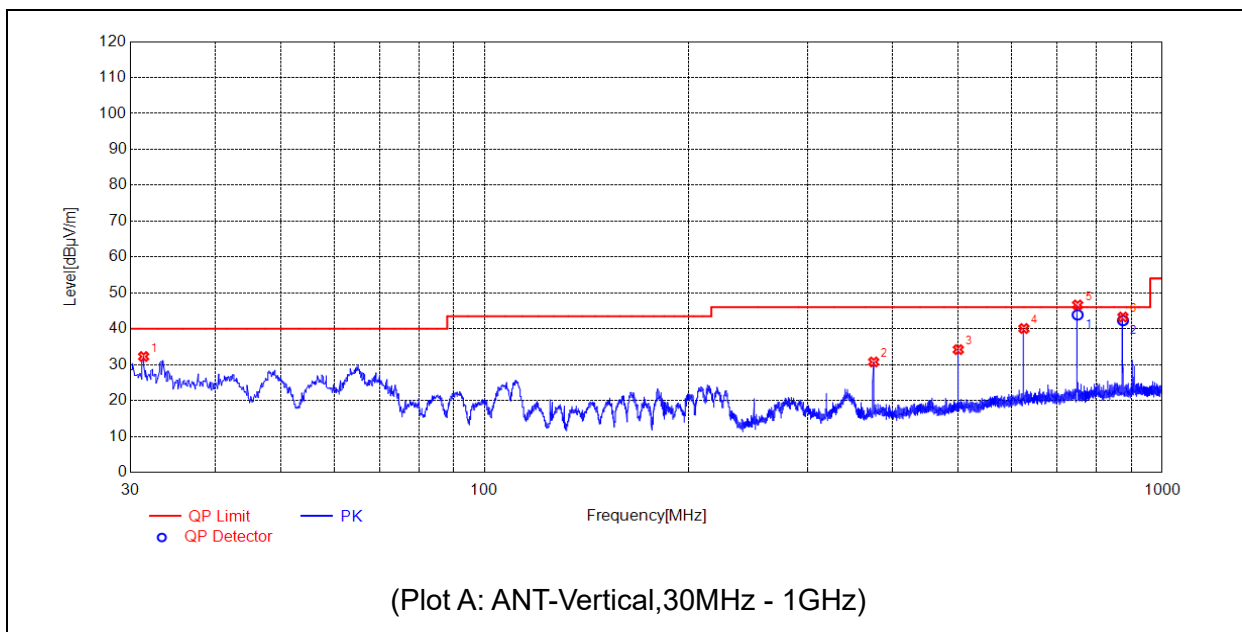
For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

#### **3.2.4. Test Result**

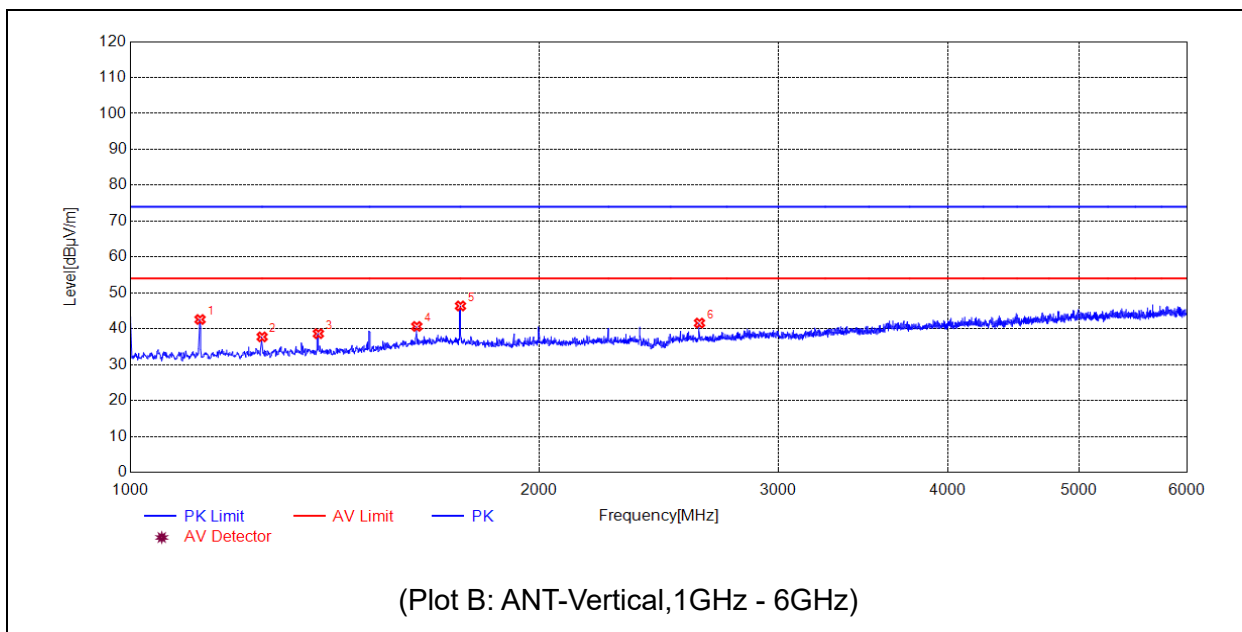
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

The amplitude of emissions which (6GHz-30GHz) are attenuated more than 20 dB below the permissible value need not be reported.

Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.

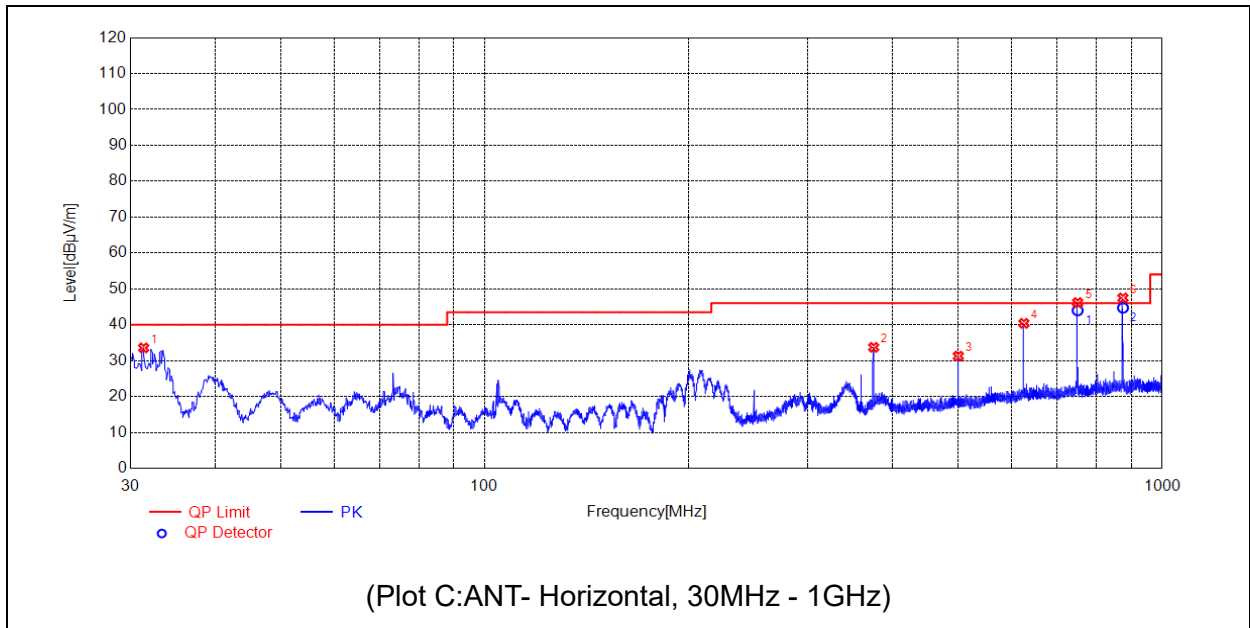


No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	31.3581	32.26	N.A	N.A	N.A	40.00	N.A	V	PASS
2	374.9665	30.75	N.A	N.A	N.A	46.00	N.A	V	PASS
3	500.0120	34.19	N.A	N.A	N.A	46.00	N.A	V	PASS
4	624.9605	40.07	N.A	N.A	N.A	46.00	N.A	V	PASS
5	750.0060	46.64	43.87	N.A	N.A	46.00	N.A	V	PASS
6	874.9545	43.28	42.30	N.A	N.A	46.00	N.A	V	PASS

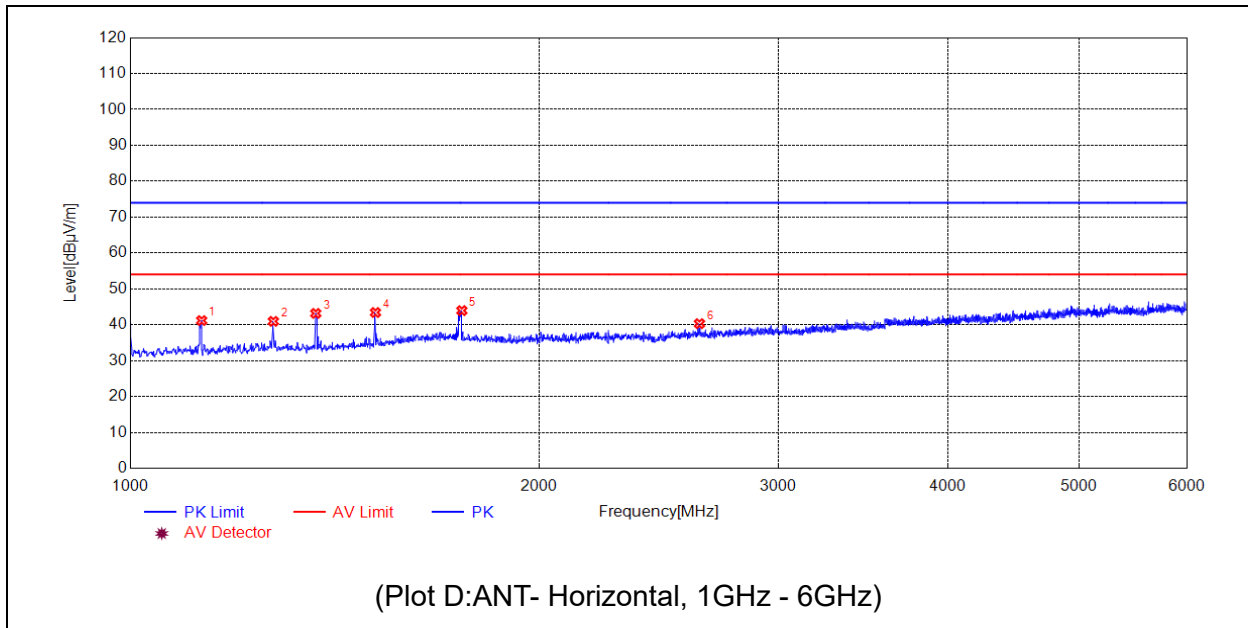


No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1125.0250	42.58	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1250.0500	37.73	N.A	N.A	74.00	N.A	54.00	V	PASS
3	1375.0750	38.63	N.A	N.A	74.00	N.A	54.00	V	PASS
4	1625.1250	40.65	N.A	N.A	74.00	N.A	54.00	V	PASS
5	1750.1500	46.35	N.A	N.A	74.00	N.A	54.00	V	PASS
6	2625.3251	41.59	N.A	N.A	74.00	N.A	54.00	V	PASS





No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	31.3581	33.56	N.A	N.A	N.A	40.00	N.A	H	PASS
2	374.9665	33.71	N.A	N.A	N.A	46.00	N.A	H	PASS
3	500.0120	31.27	N.A	N.A	N.A	46.00	N.A	H	PASS
4	624.9605	40.40	N.A	N.A	N.A	46.00	N.A	H	PASS
5	750.0060	46.19	43.97	N.A	N.A	46.00	N.A	H	PASS
6	874.9545	47.49	44.71	N.A	N.A	46.00	N.A	H	PASS



No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1128.0256	41.17	N.A	N.A	74.00	N.A	54.00	H	PASS
2	1274.0548	40.95	N.A	N.A	74.00	N.A	54.00	H	PASS
3	1369.0738	43.17	N.A	N.A	74.00	N.A	54.00	H	PASS
4	1515.1030	43.42	N.A	N.A	74.00	N.A	54.00	H	PASS
5	1754.1508	43.94	N.A	N.A	74.00	N.A	54.00	H	PASS
6	2625.3251	40.31	N.A	N.A	74.00	N.A	54.00	H	PASS



## Annex A Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

### Uncertainty of Conducted Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95%(U=2Uc(y))	9kHz-150kHz	±3.3dB
	150kHz-30MHz	±2.8dB

### Uncertainty of Radiated Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95%(U=2Uc(y))	30MHz-200MHz	±5.06dB
	200MHz-1000MHz	±5.04dB
	1GHz-6GHz	±5.18dB
	6GHz-18GHz	±5.48dB



## Annex B Testing Laboratory Information

### 1. Identification of the Responsible Testing Laboratory

<b>Laboratory Name:</b>	Shenzhen Morlab Communications Technology Co., Ltd.
<b>Laboratory Address:</b>	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
<b>Telephone:</b>	+86 755 36698555
<b>Facsimile:</b>	+86 755 36698525

### 2. Identification of the Responsible Testing Location

<b>Name:</b>	Shenzhen Morlab Communications Technology Co., Ltd.
<b>Address:</b>	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

### 3. Accreditation Certificate

<b>Accredited Testing Laboratory:</b>	The FCC designation number is CN1192. Test firm registration number is 226174. (Shenzhen Morlab Communications Technology Co., Ltd.)
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### 4. Test Software Utilized

<b>Model</b>	<b>Version Number</b>	<b>Producer</b>
TS+ -[JS32-RE]	Version 2.5.0.6	Tonscend
TS+ -[ JS32-CE]	Version 2.5.0.0	Tonscend

**5. Test Equipments Utilized**

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBECK	2022/5/25	2025/5/24
Horn Antenna	BBHA 9120D	01774	SCHWARZBECK	2019/7/26	2022/7/25
Receiver	N9038A	MY564000 93	KEYSIGHT	2022/3/3	2023/3/2
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2021/10/18	2022/10/17
Preamplifier	S020180L3203	61171/611 72	LUCIX CORP.	2021/7/16	2022/7/15
Preamplifier	S020180L3203	61171/611 72	LUCIX CORP.	2022/7/8	2023/7/7
Preamplifier	S10M100L3802	46732	LUCIX CORP.	2021/7/16	2022/7/15
Preamplifier	S10M100L3802	46732	LUCIX CORP.	2022/7/8	2023/7/7
Receiver	ESPI	101052	R&S	2022/7/7	2023/7/6
LISN	NSLK 8127	8127449	Schwarzbeck	2022/3/3	2023/3/2
10dB Pulse Limiter	VTSD 9561-F	VTSD 9561 F-B #206	SCHWARZBECK	2022/7/7	2023/7/6

**6. Ancillary Equipment Utilized**

Description	Manufacturer	Model	Serial No.
PC	DELL	VOSTRO 5370	DF2DR A01 DPC
PC Adapter	DELL	LA45NM140	OKXTTW

\_\_\_\_\_ END OF REPORT \_\_\_\_\_