

Product Name: Smart Phone PMN: Smart Phone	Report No: ITEZA2-202400339RF6
For FCC ID Model: Blade GT, Blade GT Ultra, Blade GT Play, Blade GT Pro, Blade GT Max, Blade10 Play, Blade10 Max 5G For ISED HVIN: Blade GT	Security Classification: Open
Version: V1.0	Total Page: 49

TIRT Testing Report

Prepared By:	Checked By:	Approved By:	
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RF TEST REPORT

FCC ID: 2AX4YBLADEGT

IC: 33167-BLADEGT

According to

FCC CFR Title 47 Part 2

**FCC CFR Title 47 Part 22 Subpart H, FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27 Subpart C, FCC CFR Title 47 Part 90 Subpart S
RSS-133 Issue 7, RSS-139 issue 4, RSS-132 issue 4, RSS-199 issue 4**

ANSI C63.26:2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

Applicant:	Shenzhen DOOGEE Hengtong Technology CO.,LTD
FCC ID Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China
IC Address	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Dafu Industrial Zone, Guanlan Aobei Community, Guanlan Street, Longhua New District, Shenzhen, Guangdong China
Manufacturer:	Shenzhen DOOGEE Hengtong Technology CO.,LTD
Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China
Sample No:	1000046260
Product Name:	Smart Phone
PMN:	Smart Phone
Brand Name:	DOOGEE
For FCC ID Model No.:	Blade GT, Blade GT Ultra, Blade GT Play, Blade GT Pro, Blade GT Max, Blade10 Play, Blade10 Max 5G
For ISED HVIN	Blade GT
Test No.:	Blade GT

Date of Receipt:	2024/09/11
Date of Test:	2024/09/11~2024/12/27
Issued Date:	2024/12/27
Testing Lab:	TIRT

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History of this test report

Original Report Issue Date: 2024.12.27

- No additional attachment
- Additional attachments were issued following record

Attachment No.	Issue Date	Description

1 TEST SUMMARY

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307, Part 2.1093 RSS-102 Issue 6	Pass*(Please refer to SAR Report)
RF Output Power	Part 2.1046, Part 22.913(a), Part 24.232(b), Part 27.50(b) Part 27.50(c), Part 27.50(d), Part 27.50(h), Part 90.635 RSS-Gen Issue 5 §6.12 RSS-132 (5.4), RSS-133 (5.5) RSS-139 (5.5), RSS-199 (5.5)	Pass
Peak-To-Average Ratio	Part 2.1046, Part 22.913(d) Part 24.232 (d), Part 27.50(d) RSS-132 (5.4), RSS-133 (5.5) RSS-139 (5.5), RSS-199 (5.5)	Pass
Modulation Characteristics	Part 2.1047, RSS-Gen Issue 5 §6.7 RSS-132 (5.2), RSS-133 (5.3) RSS-139 (5.3), RSS-199 (5.3)	N/A
99% & -26 dB Occupied Bandwidth	Part 2.1049, Part 22.917 Part 24.238, Part 27.53(a) RSS-Gen Issue 5 §6.7	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051, Part 22.917, Part 24.238 Part 27.53(c)(f), Part 27.53(g),Part 27.53(h), Part 27.53(m) Part 90.691, RSS-Gen Issue 5 §6.12 RSS-132 (5.5), RSS-133 (5.6) RSS-139 (5.6), RSS-199 (5.6)	Pass
Receiver Radiated Spurious Emission	RSS-133 Issue 6 (6.6) RSS-Gen Issue 5 (7.3)	Pass
Field Strength of Spurious Radiation	Part 2.1053, Part 22.917, Part 24.238 Part 27.53(c)(f), Part 27.53(g) Part 27.53(h), Part 27.53(m), Part 90.691, RSS-Gen Issue 5 §6.12	Pass

Out of band emission, Band Edge	Part 2.1051, Part 22.917 Part 24.238, Part 27.53(c)(f) Part 27.53(g), Part 27.53(h) Part 27.53(m), Part 90.691 RSS-Gen Issue 5 §6.12 RSS-132 (5.5), RSS-133 (5.6) RSS-139 (5.6), RSS-199 (5.6)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b), Part 22.355, Part 24.235, Part 27.54, Part 90.213, RSS-132 (5.3), RSS-133 (5.4), RSS-Gen Issue 5 §6.11, RSS-139 (5.4), RSS-199 (5.4)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2), Part 22.355, Part 24.235 Part 27.54, Part 90.213, RSS-132 (5.3) RSS-133 (5.4), RSS-Gen Issue 5 §6.11, RSS-139 (5.4), RSS-199 (5.4)	Pass

Note: 1. Pass: The EUT complies with the essential requirements in the standard.

2. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Description of Device (EUT)

EUT Name	: Smart Phone
PMN	: Smart Phone
For FCC ID Model No.	: Blade GT, Blade GT Ultra, Blade GT Play, Blade GT Pro, Blade GT Max, Blade10 Play, Blade10 Max 5G
DIFF for. FCC ID Model No	: There is no difference except the name of the model. All tests are made with the Blade GT model.
For ISED HVIN	: Blade GT
Power supply	: DC 3.87V from battery or DC 9V from adapter
Support Bands	: LTE Band 2/4/5/7/19/25/26/38/41/66
Channel Bandwidth	: LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 19: 5MHz, 10MHz, 15MHz LTE Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
TX Frequency	: LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~2570 MHz LTE Band 19: 830 ~845MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2535MHz ~ 2655MHz LTE Band 66: 1710 MHz ~ 1780 MHz
Modulation type	: QPSK, 16QAM
Antenna Type	: PIFA antenna, LTE Band 2: Maximum Gain is -0.6dBi. LTE Band 4: Maximum Gain is -1.15dBi. LTE Band 5: Maximum Gain is -3.64dBi. LTE Band 7: Maximum Gain is -1.5Bi. LTE Band 19: Maximum Gain is -3.64dBi. LTE Band 25: Maximum Gain is -0.6dBi. LTE Band 26: Maximum Gain is -3.64dBi. LTE Band 38: Maximum Gain is -2.05dBi. LTE Band 41: Maximum Gain is 0.51dBi. LTE Band 66: Maximum Gain is -1.15dBi. Antenna information is provided by applicant. There is WWAN diversity antenna inside the product, which is only for receiving function.
Software version	: DOOGEE-Blade_GT-EEA-Android14.0-20240830
Hardwareversion/FVIN	: M163-MUB-V2

Remark 1: The worst-case simultaneous transmission configuration was evaluated with no non-compliance found. Results in this report are only for 4G function, and there is no other transmitter involved.

2: The LTE Band41 supports frequency is 2535-2655MHz, Due to actual customer needs

Using software, the prototype can only operate at 2535-2655 MHz, other frequencies have been blocked

2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H, Part 24 subpart E, Part 27 Subpart C, Part 90 Subpart S of the FCC CFR 47 Rules, RSS-133 Issue 7, RSS-139 issue 4, RSS-132 issue 4, RSS-199 issue 4 of the RSS Rules

2.3 TEST FACILITY

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	104 Building C, Xinmingsheng Industrial Park No.132, Zhangge Old Village East Zone, Zhangge Community, Fucheng Street, Longhua District, Shenzhen, Guangdong, P. R. China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number:	6049.01
FCC Accredited Lab.Designation Number:	CN1366
FCC Test Firm Registration Number:	820690
CAB identifier	CN0159
Company Number	31418
Telephone:	+86-0755-27087573

2.4 ACCESSORIES OF DEVICE (EUT)

Accessories : AC Adapter
 Manufacturer : Shenzhen Theone Electronic CO.,Ltd
 Model : TP182C-US
 Input: AC100-240V~ 50/60Hz 0.5A Max
 Output USB-A: 5.0V=3.0A 15.0W; 9.0V=2.0A 18.0W,
 Ratings : 12.0V=1.5A 18.0W;
 Power:18.0W Max

2.5 TESTED SUPPORTING SYSTEM DETAILS

No.	Description	Manufacturer	Model	Serial Number	Certification or SDoC
1	N/A	N/A	N/A	N/A	N/A

2.6 TEST CONDITIONS

Items	Required	Actual
Temperature range:	15-35°C	24°C
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7 MEASUREMENT UNCERTAINTY

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	± 142.12 KHz
RF power conducted	± 0.74 dB
RF power radiated	± 3.25 dB
Spurious emissions, conducted	± 1.78 dB
Spurious emissions, radiated (9KHz~30MHz)	± 2.56 dB
Spurious emissions, radiated (30MHz~1GHz)	± 4.6 dB
Spurious emissions, radiated (Above 1GHz)	± 4.9 dB
Conduction Emissions(150kHz~30MHz)	± 3.1 dB
Humidity	$\pm 4.6\%$
Temperature	$\pm 0.7^{\circ}\text{C}$
Time	$\pm 1.25\%$

3 TEST INSTRUMENTS LIST

Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Receiver	Rohde&Schwarz	ESIB 40	YH-TIRT-SAC-966-20220911	2024/01/05	2025/01/04
Integral Antenna	Schwarzbeck	VULB 9163	01314	2023/12/11	2025/12/10
Integral Antenna	Rohde&Schwarz	HF907	RSM2991424	2023/12/11	2025/12/10
Preamplifier	Emtrace	RP01A	'02017	2024/01/05	2025/01/04
Preamplifier	Schwarzbeck	BBV9744	00143	2024/01/05	2025/01/04
Loop Antenna	ZHINAN	ZN30900A	12024	2024/01/05	2025/01/04
Exposure Level Tester	narda	ELT-400	N-0925	2024/01/05	2025/01/04
Horn Antenna	Schwarzbeck	BBHA9170	00956	2024/01/05	2025/01/04
RF Cable	/	LMR400UF-NMNM-7.0M	/	2024/01/05	2025/01/04
RF Cable	/	SFT2050PUR-NMNM-7.0M	/	2024/01/05	2025/01/04
EMI Receiver	Rohde&Schwarz	ESR7	1316.3003K07-102611-mk	2024/11/02	2025/11/01
LISN	Rohde&Schwarz	ENV216	3560.655.12-102915-Bp	2024/11/02	2025/11/01
ISN	Schwarzbeck	ENY81	1309.8510.03	2024/01/05	2025/01/04
ISN	Schwarzbeck	ENY81-CAT6	1309.8526.03-101976-kh	2024/01/05	2025/01/04
RF Cable	\	SFT2050PUR-NMNM-2.0M	\	2024/01/05	2025/01/04
CMW500	ROHDE&SCHWARZ	CMW500	120434	2024/01/05	2025/01/04
Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2024/01/05	2025/01/04
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	101722	2024/01/05	2025/01/04
vector Signal Generator	KEYSIGHT	N5182B	MY56200458	2024/01/05	2025/01/04
vector Signal Generator	HEWLETT PACKARD	83752A	3610A02458	2024/01/05	2025/01/04
Filter	HEWLETT PACKARD	JS0806-F	19K8060209	2024/01/05	2025/01/04
Wireless comprehensive tester	ANRISTU	MT8821C	SN6262170409	2024/01/05	2025/01/04

Wireless comprehensive tester	ANRISTU	MT8000A	SN6262166782	2024/01/05	2025/01/04
ROB ANT	Hubei world for communication Co., LTD	SW-700/2700XP-4	/	/	/

4 SYSTEM TEST CONFIGURATION

4.1 TEST MODE

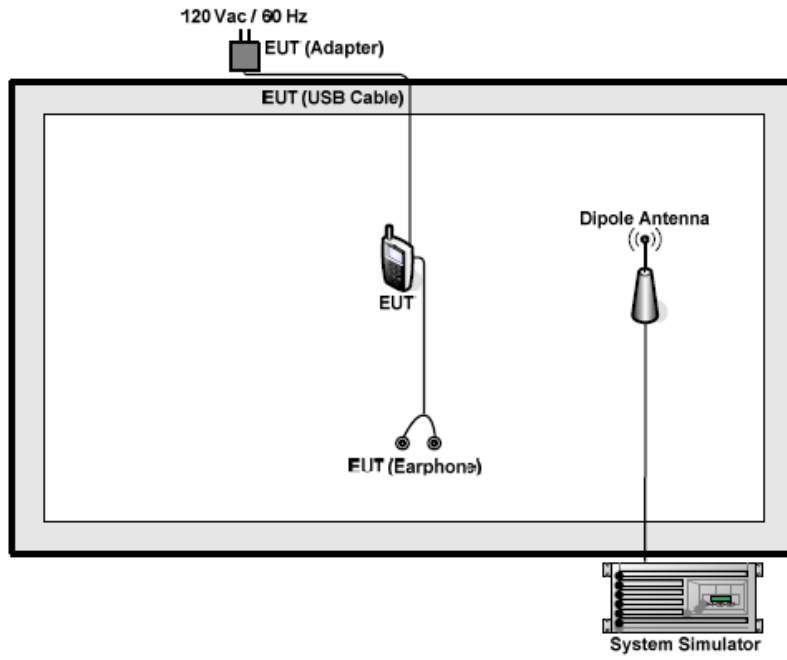
During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes		
Band	Radiated	Conducted
LTE Band 2	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 4	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 5	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 7	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 19	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 25	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 26	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 38	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 41	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 66	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link

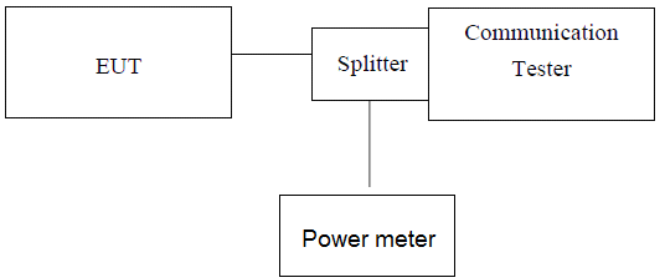
Note: Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas License Digital Systems v03r1 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

4.2 CONFIGURATION OF TESTED SYSTEM

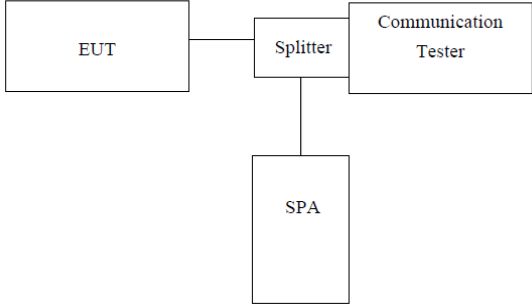


4.3 CONDUCTED OUTPUT POWER

Test Requirement:	Part 2.1046, Part 22.913(a), Part 24.232(b), Part 27.50(b) Part 27.50(c), Part 27.50(d), Part 27.50(h), Part 90.635 RSS-Gen Issue 5 §6.12, RSS-132 (5.4), RSS-133 (5.5) RSS-139 (5.5), RSS-199 (5.5)
Test Method:	ANSI C63.26:2015
Limit:	LTE Band 2: 2W LTE Band 4: 1W LTE Band 5/19: 7W LTE Band 7: 2W LTE Band 25: 2W LTE Band 26: 100W LTE Band 38: 2W LTE Band 41: 2W LTE Band 66: 1W
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> 1. The transmitter output port was connected to base station. 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement. 3. Set EUT at maximum power through base station. 4. Select lowest, middle, and highest channels for each band and different modulation. 5. Measure the maximum burst average power.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

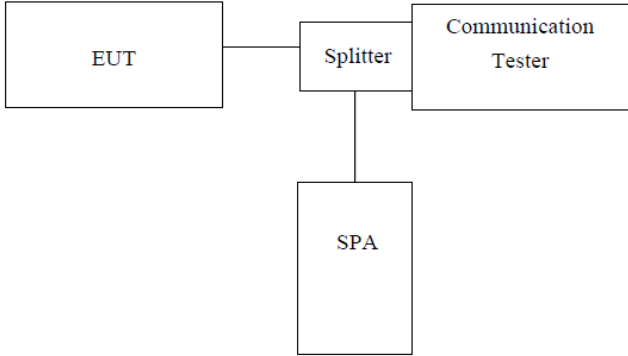
Note: Please refer to Appendix A of the Appendix LTE Test Data.

4.4 PEAK-TO-AVERAGE RATIO

Test Requirement:	Part 2.1046, Part 22.913(d), Part 24.232 (d), Part 27.50(d), RSS-132 (5.4), RSS-133 (5.5), RSS-139 (5.5), RSS-199 (5.5)
Test Method:	ANSI C63.26:2015
Test Limit:	Used complementary cumulative distribution function (CCDF) of analyzer to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> 1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7 2. The EUT was connected to spectrum and system simulator via a power divider 3. Using the CCDF measurement of spectrum analyzer; 4. Set $RBW \geq OBW$ or specified reference bandwidth; 5. Set the number of counts to a value that stabilizes the measured CCDF curve; 6. Set the measurement interval as 1ms 7. Record the maximum PAPR level associated with a probability of 0.1%.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Note: Please refer to Appendix B of the Appendix LTE Test Data.

4.5 OCCUPY BANDWIDTH

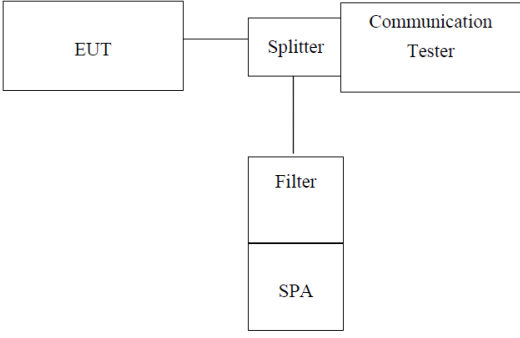
Test Requirement:	Part 2.1049, Part 22.917, Part 24.238, Part 27.53(a) RSS-Gen Issue 5 §6.7
Test Method:	ANSI C63.26:2015
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<p>1.The EUT's output RF connector was connected with a short cable to the spectrum analyzer, set center frequency to channel center frequency.</p> <p>2.RBW was set to about 1%-5% of emission OBW, VBW\geq 3 X RBW.</p> <p>3.Set spectrum analyzer detection mode to peak, and the trace mode to max hold.</p> <p>4. Use the 99% OBW function, The 99% power OBW can be found on the plot, determine the “-26dB amplitude” as equal to reference value -26dB.</p>
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Note: Please refer to Appendix C of the Appendix LTE Test Data.

4.6 MODULATION CHARACTERISTIC

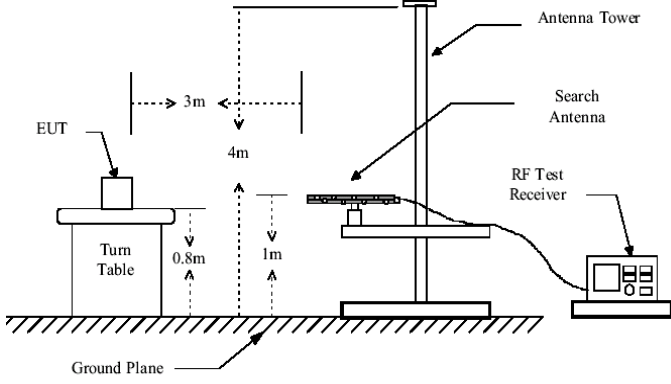
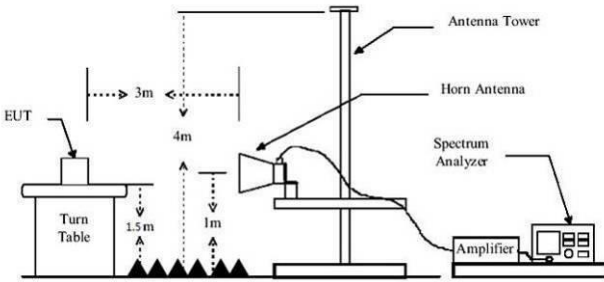
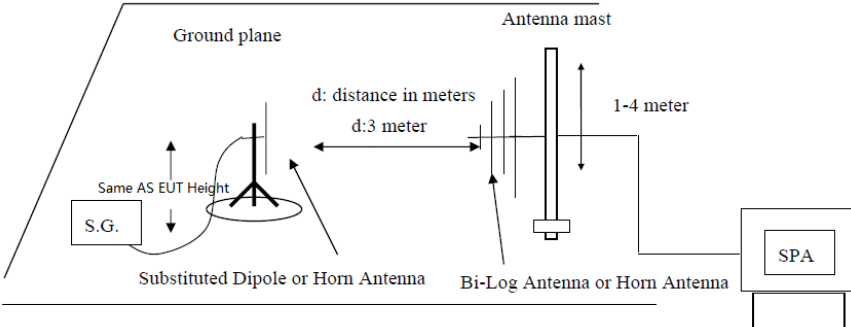
According to FCC § 2.1047(d), Part 24E & Part 27, Part 2.1047, RSS-Gen Issue 5 §6.7, RSS-132 (5.2), RSS-133 (5.3), RSS-139 (5.3), RSS-199 (5.3) there are no specific requirement for digital modulation, therefore modulation characteristic is not presented.

4.7 OUT OF BAND EMISSION AT ANTENNA TERMINALS

Test Requirement:	Part 2.1051, Part 22.917, Part 24.238, Part 27.53(c)(f), Part 27.53(g), Part 27.53(h), Part 27.53(m), Part 90.691, RSS-Gen Issue 5 §6.12, RSS-132 (5.5), RSS-133 (5.6) RSS-139 (5.6), RSS-199 (5.6)
Test Method:	ANSI C63.26:2015
Limit:	$\leq -13\text{dBm}(\text{LTE Band5,19, 26}(824\text{-}849\text{MHz}))$ $\leq -13\text{dBm}(\text{LTE Band2,25})$ $\leq -13\text{dBm}(\text{LTE Band4,66})$ $\leq -25\text{dBm}(\text{LTE Band 7, 38, 41})$ $\leq -13\text{dBm}(\text{LTE Band26}(814\text{-}824\text{MHz}))$
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> 1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. 3 For the out of band: Set the RBW=1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic. 4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Note: Please refer to Appendix D of the Appendix LTE Test Data.

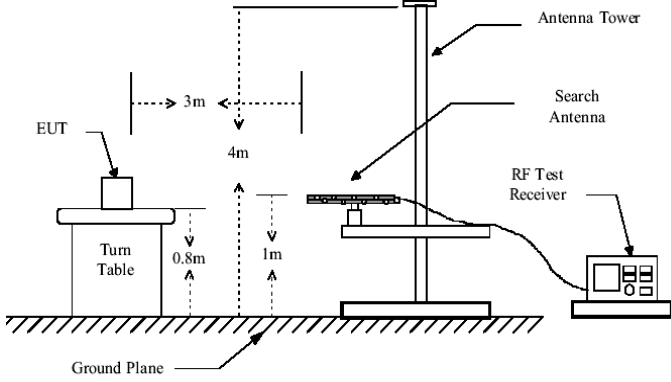
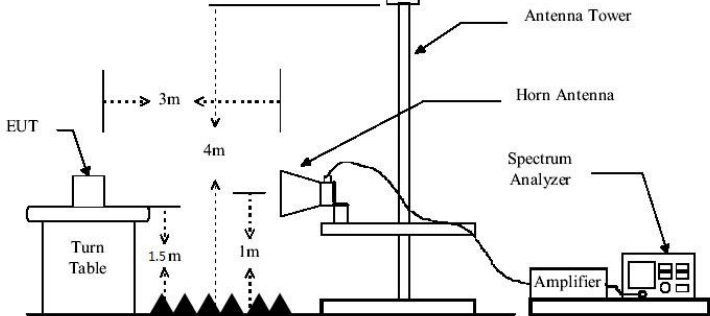
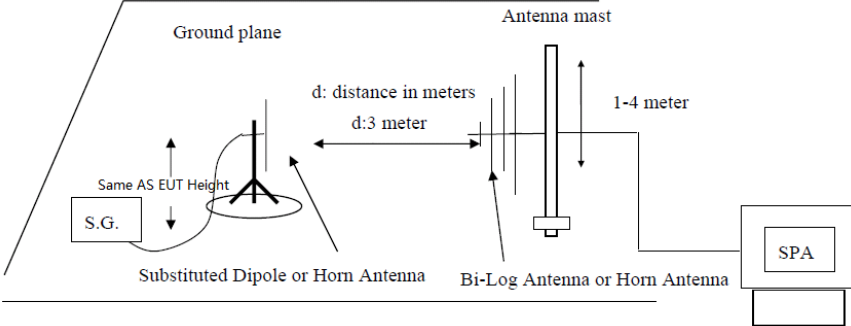
4.8 ERP, EIRP MEASUREMENT

Test Requirement:	Part 2.1046, Part 22.913(a), Part 24.232(b), Part 27.50(b) Part 27.50(c), Part 27.50(d), Part 27.50(h), Part 90.635 RSS-Gen Issue 5 §6.12, RSS-132 (5.4), RSS-133 (5.5) RSS-139 (5.5), RSS-199 (5.5)
Test Method:	ANSI C63.26:2015
Limit:	ERP ≤ 7W(38.45dBm) (LTE Band 5,19, 26(824-849MHz)) EIRP ≤ 2W(33.00dBm) (LTE Band 2,25) EIRP ≤ 1W(30.00dBm) (LTE Band 4,66) EIRP ≤ 2W(33.00dBm) (LTE Band 7,38,41) ERP ≤ 100W(50.00dBm) (LTE Band 26(814-824MHz))
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 

Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 4. EIRP were measured using a substitution method. The EUTwas replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated asfollows: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass
Remark:	H,E1,E2 mean for EUT polarization of X, Y, Z

Note: Please refer to Appendix A of the Appendix LTE Test Data.

4.9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

Test Requirement:	Part 2.1053, Part 22.917, Part 24.238, Part 27.53(c)(f), Part 27.53(g) Part 27.53(h), Part 27.53(m), Part 90.691, RSS-Gen Issue 5 §6.12
Test Method:	ANSI C63.26:2015
Limit:	$\leq -13\text{dBm}(\text{LTE Band 5, 19, 26}(824\text{-}849\text{MHz}))$ $\leq -13\text{dBm}(\text{LTE Band 2,25})$ $\leq -13\text{dBm}(\text{LTE Band 4,66})$ $\leq -25\text{dBm}(\text{LTE Band 7, 38, 41})$ $\leq -13\text{dBm}(\text{LTE Band 26}(814\text{-}824\text{MHz}))$
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>  <p>Test Procedure:</p> <p>1. The EUT was placed on an non-conductive turntable using a</p>

	<p>non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</p> <ol style="list-style-type: none"> During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency(low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data:

QPSK Mode:

Test mode:	LTE Band 2(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3732.14	Vertical	-30.84	-13.00	Pass
5599.98	V	-30.82		
7430.64	V	-30.20		
9285.48	V	-42.07		
11257.54	V	---		
3733.20	Horizontal	-32.20	-13.00	Pass
5525.61	H	-31.21		
7407.04	H	-36.76		
9246.08	H	-41.45		
11234.72	H	---		
Test mode:	LTE Band 2(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3732.13	Vertical	-30.11	-13.00	Pass
5642.45	V	-30.82		
7508.51	V	-32.28		
9485.97	V	-43.45		
11409.35	V	---		
3717.44	Horizontal	-31.97	-13.00	Pass
5674.31	H	-31.27		
7532.57	H	-38.83		
9427.24	H	-38.42		
11330.82	H	---		
Test mode:	LTE Band 2(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3833.67	Vertical	-30.84	-13.00	Pass
5744.96	V	-31.34		
7650.21	V	-33.01		
9521.43	V	-43.45		
11607.55	V	---		
3834.73	Horizontal	-31.91	-13.00	Pass
5747.61	H	-31.21		
7626.01	H	-37.76		
9579.02	H	-40.82		
11532.52	H	---		

Remark :

1. The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 4(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3428.49	Vertical	-32.52	-13.00	Pass
5145.73	V	-28.92		
6871.87	V	-33.55		
8541.78	V	-44.66		
10329.99	V	---		
3429.09	Horizontal	-31.19	-13.00	Pass
5131.88	H	-39.28		
6870.47	H	-36.67		
8605.09	H	-34.69		
10244.51	H	---		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3442.72	Vertical	-31.52	-13.00	Pass
5141.29	V	-30.97		
6979.85	V	-34.94		
8667.36	V	-43.70		
10475.79	V	---		
3471.80	Horizontal	-32.15	-13.00	Pass
5118.93	H	-39.21		
6965.03	H	-37.42		
8716.80	H	-35.34		
10319.32	H	---		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3515.38	Vertical	-30.49	-13.00	Pass
5224.01	V	-28.89		
7032.10	V	-31.44		
8771.23	V	-44.26		
10666.52	V	---		
3545.76	Horizontal	-32.50	-13.00	Pass
5251.91	H	-38.26		
7060.22	H	-36.96		
8822.72	H	-36.87		
10547.01	H	---		

Remark:

1. The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 5(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1614.66	Vertical	-32.99	-13.00	Pass
2445.72	V	-33.34		
3224.29	V	-33.69		
4143.73	V	-44.33		
5073.36	V	---		
1811.70	Horizontal	-31.59	-13.00	Pass
2504.16	H	-40.26		
3885.26	H	-36.12		
4312.18	H	-33.91		
5147.65	H	---		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1639.01	Vertical	-30.99	-13.00	Pass
2422.83	V	-29.39		
3252.42	V	-32.10		
4288.48	V	-43.67		
5160.37	V	---		
4750.75	Horizontal	-30.99	-13.00	Pass
2667.92	H	-37.86		
3857.13	H	-35.72		
4426.19	H	-35.41		
5148.40	H	---		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1703.30	Vertical	-34.68	-13.00	Pass
2561.24	V	-33.07		
3420.16	V	-32.71		
4369.86	V	-44.26		
5260.16	V	---		
1751.77	Horizontal	-32.52	-13.00	Pass
2876.17	H	-39.20		
3440.36	H	-37.93		
4394.82	H	-36.75		
5147.70	H	---		

Remark :

1. The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 7(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5229.26	Vertical	-31.34	-25.00	Pass
4861.51	V	-29.55		
10095.06	V	-32.74		
13594.39	V	-44.65		
15233.92	V	---		
5138.77	Horizontal	-31.39	-25.00	Pass
7945.63	H	-38.82		
10155.53	H	-35.98		
12812.68	H	-36.34		
15137.93	H	---		
Test mode:	LTE Band 7(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5158.16	Vertical	-30.09	-25.00	Pass
7641.25	V	-31.32		
10225.25	V	-31.61		
13285.71	V	-44.47		
15637.46	V	---		
5131.29	Horizontal	-33.64	-25.00	Pass
7739.14	H	-38.67		
10279.02	H	-35.41		
13878.41	H	-33.40		
15363.62	H	---		
Test mode:	LTE Band 7(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5241.04	Vertical	-32.87	-25.00	Pass
7885.02	V	-34.36		
10349.64	V	-30.87		
12924.97	V	-44.35		
15442.55	V	---		
5227.45	Horizontal	-31.57	-25.00	Pass
7739.78	H	-38.16		
10358.74	H	-36.05		
12779.32	H	-35.89		
15364.41	H	---		

Remark :

1. The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 19(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1362.71	Vertical	-31.27	-13.00	Pass
2696.55	V	-34.40		
3351.05	V	-31.60		
4220.24	V	-42.47		
5065.04	V	---		
1407.79	Horizontal	-29.41	-13.00	Pass
2505.06	H	-38.55		
3643.41	H	-33.02		
4328.89	H	-30.45		
5147.47	H	---		
Test mode:	LTE Band 19(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1537.16	Vertical	-30.19	-13.00	Pass
2649.01	V	-32.84		
3450.60	V	-32.79		
4321.54	V	-43.98		
5256.23	V	---		
4845.28	Horizontal	-29.36	-13.00	Pass
2555.90	H	-35.27		
3956.03	H	-35.10		
4336.67	H	-34.91		
5364.93	H	---		
Test mode:	LTE Band 19(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1526.53	Vertical	-35.62	-13.00	Pass
2318.62	V	-31.97		
3586.37	V	-33.01		
4421.36	V	-43.34		
5404.77	V	---		
1745.11	Horizontal	-30.69	-13.00	Pass
2867.85	H	-38.07		
3566.86	H	-36.07		
4412.33	H	-35.49		
5147.16	H	---		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
4. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 25(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5134.45	Vertical	-33.17	-13.00	Pass
7638.04	V	-31.24		
10124.87	V	-34.87		
12262.56	V	-41.23		
15330.54	V	---		
5049.06	Horizontal	-34.06	-13.00	Pass
7540.98	H	-35.98		
10559.32	H	-31.40		
12621.88	H	-33.44		
15241.32	H	---		
Test mode:	LTE Band 25(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5252.01	Vertical	-31.34	-13.00	Pass
7642.86	V	-29.06		
10226.38	V	-30.67		
12542.90	V	-42.07		
15514.14	V	---		
5220.42	Horizontal	-28.40	-13.00	Pass
7521.35	H	-31.91		
10266.88	H	-35.29		
13592.37	H	-35.48		
15318.97	H	---		
Test mode:	LTE Band 25(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5212.20	Vertical	-29.55	-13.00	Pass
7864.15	V	-31.13		
10013.31	V	-29.24		
12237.47	V	-43.39		
15505.57	V	---		
5308.15	Horizontal	-33.18	-13.00	Pass
7825.81	H	-37.67		
10405.17	H	-34.96		
12267.63	H	-33.13		
15327.70	H	---		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode(814-824MHz):	LTE Band 26(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3430.65	Vertical	-31.35	-13.00	Pass
7819.20	V	-31.46		
10131.55	V	-29.65		
12316.88	V	-43.94		
16343.26	V	---		
5193.60	Horizontal	-27.54	-13.00	Pass
7621.59	H	-38.75		
10263.75	H	-36.55		
12593.07	H	-33.75		
15219.42	H	---		
Test mode(814-824MHz):	LTE Band 26(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5132.02	Vertical	-28.79	-13.00	Pass
7644.37	V	-28.11		
10248.54	V	-30.83		
13280.00	V	-41.30		
15650.63	V	---		
5237.57	Horizontal	-28.12	-13.00	Pass
7701.07	H	-32.35		
10285.75	H	-34.96		
12662.24	H	-34.42		
15269.03	H	---		
Test mode(814-824MHz):	LTE Band 26(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5228.86	Vertical	-32.77	-13.00	Pass
7828.01	V	-29.01		
10350.12	V	-33.06		
12870.02	V	-41.52		
15445.02	V	---		
5143.95	Horizontal	-31.12	-13.00	Pass
7825.26	H	-37.02		
10344.77	H	-33.98		
12998.27	H	-34.64		
15271.08	H	---		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode(824-849MHz):	LTE Band 26(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3915.94	Vertical	-31.84	-13.00	Pass
5703.98	V	-28.45		
10252.34	V	-30.06		
12295.80	V	-43.62		
13527.11	V	---		
3846.28	Horizontal	-33.73	-13.00	Pass
7268.61	H	-36.13		
10307.57	H	-35.53		
12123.13	H	-35.92		
13343.80	H	---		
Test mode(824-849MHz):	LTE Band 26(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3692.05	Vertical	-32.08	-13.00	Pass
7910.37	V	-28.86		
10451.58	V	-30.47		
12033.58	V	-43.61		
15888.21	V	---		
3845.59	Horizontal	-31.32	-13.00	Pass
7584.89	H	-38.73		
10487.40	H	-35.03		
12534.03	H	-35.47		
15336.41	H	---		
Test mode(824-849MHz):	LTE Band 26(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3866.53	Vertical	-28.76	-13.00	Pass
7831.65	V	-25.43		
10452.30	V	-32.25		
12341.89	V	-43.66		
15618.27	V	---		
3904.64	Horizontal	-29.03	-13.00	Pass
7839.31	H	-35.40		
10458.46	H	-35.57		
12384.69	H	-36.07		
15288.03	H	---		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode	LTE Band 38(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
2629.29	Vertical	-31.18	-25.00	Pass
5256.49	V	-31.41		
10564.97	V	-30.77		
12217.55	V	-43.68		
13697.79	V	---		
2643.12	Horizontal	-33.39	-25.00	Pass
5233.34	H	-38.27		
10852.92	H	-37.31		
12304.72	H	-37.11		
13264.41	H	---		
Test mode	LTE Band 38(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
2758.63	Vertical	-29.45	-25.00	Pass
5484.23	V	-33.54		
10639.25	V	-31.73		
12866.69	V	-46.13		
15709.46	V	---		
2687.65	Horizontal	-33.59	-25.00	Pass
5436.40	H	-37.53		
10840.49	H	-37.24		
12309.45	H	-36.56		
15330.59	H	---		
Test mode	LTE Band 38(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
2626.74	Vertical	-30.62	-25.00	Pass
6894.54	V	-32.87		
10439.59	V	-30.91		
12726.86	V	-43.69		
15638.13	V	---		
2689.55	Horizontal	-28.73	-25.00	Pass
5192.37	H	-36.81		
10761.68	H	-36.70		
13307.64	H	-36.32		
16260.51	H	---		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode	LTE Band 41(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3676.20	Vertical	-28.06	-25.00	Pass
8634.39	V	-33.32		
10232.77	V	-34.14		
12662.53	V	-44.32		
13375.39	V	---		
3991.71	Horizontal	-31.59	-25.00	Pass
9811.27	H	-38.82		
10273.76	H	-37.25		
12317.92	H	-34.66		
13164.59	H	---		
Test mode	LTE Band 41(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3578.31	Vertical	-30.83	-25.00	Pass
5976.21	V	-32.64		
8945.13	V	-32.31		
10239.03	V	-43.71		
13802.72	V	---		
5870.31	Horizontal	-30.32	-25.00	Pass
7235.69	H	-41.10		
10341.58	H	-35.24		
12305.60	H	-26.25		
13262.46	H	---		
Test mode	LTE Band 41(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3116.49	Vertical	-33.46	-25.00	Pass
5637.24	V	-33.59		
8943.26	V	-33.80		
10362.32	V	-44.02		
12876.24	V	---		
5132.22	Horizontal	-32.39	-25.00	Pass
8676.20	H	-38.80		
10302.91	H	-35.93		
12711.01	H	-36.43		
13592.14	H	---		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 66(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3316.11	Vertical	-30.86	-13.00	Pass
5689.59	V	-33.15		
7305.32	V	-32.56		
8300.42	V	-44.36		
10441.61	V	---		
3335.55	Horizontal	-33.34	-13.00	Pass
5230.78	H	-38.68		
6951.54	H	-37.18		
8917.16	H	-36.58		
10268.88	H	---		
Test mode:	LTE Band 66(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
2887.01	Vertical	-36.06	-13.00	Pass
5370.58	V	-35.03		
7518.01	V	-34.82		
9867.23	V	-44.80		
10369.44	V	---		
3021.92	Horizontal	-33.34	-13.00	Pass
5236.24	H	-38.52		
7652.46	H	-36.63		
8886.13	H	-35.70		
10400.53	H	---		
Test mode:	LTE Band 66(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3749.33	Vertical	-31.60	-13.00	Pass
5314.83	V	-27.97		
7234.39	V	-33.48		
8632.34	V	-46.90		
10575.21	V	---		
3336.45	Horizontal	-33.00	-13.00	Pass
5292.95	H	-41.03		
7329.55	H	-37.90		
8880.10	H	-36.70		
10128.70	H	---		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst

16 QAM Mode:

Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3731.85	Vertical	-31.13	-13.00	Pass
5599.69	V	-31.11		
7430.35	V	-30.49		
9285.19	V	-42.36		
11257.25	V	---		
3732.91	Horizontal	-32.49	-13.00	Pass
5525.32	H	-31.50		
7406.75	H	-37.05		
9245.79	H	-41.74		
11234.43	H	---		
Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3731.84	Vertical	-30.40	-13.00	Pass
5642.16	V	-31.11		
7508.22	V	-32.57		
9485.68	V	-43.74		
11409.06	V	---		
3717.15	Horizontal	-32.26	-13.00	Pass
5674.02	H	-31.56		
7532.28	H	-39.12		
9426.95	H	-38.71		
11330.53	H	---		
Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3833.38	Vertical	-31.13	-13.00	Pass
5744.67	V	-31.63		
7649.92	V	-33.30		
9521.14	V	-43.74		
11607.26	V	---		
3834.44	Horizontal	-32.20	-13.00	Pass
5747.32	H	-31.50		
7625.72	H	-38.05		
9578.73	H	-41.11		
11532.23	H	---		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 4(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3428.88	Vertical	-32.13	-13.00	Pass
5146.38	V	-28.27		
6872.22	V	-33.20		
8541.57	V	-44.87		
10330.28	V	---		
3429.51	Horizontal	-30.77	-13.00	Pass
5131.21	H	-39.95		
6869.94	H	-37.20		
8605.14	H	-34.64		
10245.29	H	---		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3443.11	Vertical	-31.13	-13.00	Pass
5141.94	V	-30.32		
6980.20	V	-34.59		
8667.15	V	-43.91		
10476.08	V	---		
3472.19	Horizontal	-32.68	-13.00	Pass
5119.58	H	-38.43		
6965.38	H	-37.07		
8717.22	H	-35.55		
10320.10	H	---		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3516.16	Vertical	-31.02	-13.00	Pass
5223.34	V	-28.84		
7032.52	V	-32.11		
8770.70	V	-43.87		
10667.30	V	---		
3545.09	Horizontal	-31.72	-13.00	Pass
5251.96	H	-38.79		
7060.27	H	-36.18		
8823.11	H	-37.54		
10547.79	H	---		

Remark:

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 5(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1615.12	Vertical	-32.53	-13.00	Pass
2446.18	V	-32.88		
3224.75	V	-33.23		
4144.19	V	-43.87		
5073.82	V	---		
1812.16	Horizontal	-31.13	-13.00	Pass
2504.62	H	-39.80		
3885.72	H	-35.66		
4312.64	H	-33.45		
5148.11	H	---		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1638.29	Vertical	-31.71	-13.00	Pass
2422.11	V	-30.11		
3251.70	V	-32.82		
4287.76	V	-44.39		
5159.65	V	---		
4750.03	Horizontal	-31.71	-13.00	Pass
2667.20	H	-38.58		
3856.41	H	-36.44		
4425.47	H	-36.13		
5147.68	H	---		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1703.55	Vertical	-34.43	-13.00	Pass
2561.49	V	-32.82		
3420.41	V	-32.46		
4370.11	V	-44.01		
5260.41	V	---		
1752.02	Horizontal	-32.27	-13.00	Pass
2876.42	H	-38.95		
3440.61	H	-37.68		
4395.07	H	-36.50		
5147.95	H	---		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 19(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1362.49	Vertical	-31.49	-13.00	Pass
2696.33	V	-34.62		
3350.83	V	-31.82		
4220.02	V	-42.69		
5064.82	V	---		
1407.57	Horizontal	-29.63	-13.00	Pass
2504.84	H	-38.77		
3643.19	H	-33.24		
4328.67	H	-30.67		
5147.25	H	---		
Test mode:	LTE Band 19(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1537.12	Vertical	-30.23	-13.00	Pass
2648.97	V	-32.88		
3450.56	V	-32.83		
4321.50	V	-44.02		
5256.19	V	---		
4845.24	Horizontal	-29.40	-13.00	Pass
2555.86	H	-35.31		
3955.99	H	-35.14		
4336.63	H	-34.95		
5364.89	H	---		
Test mode:	LTE Band19(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1526.75	Vertical	-35.40	-13.00	Pass
2318.84	V	-31.75		
3586.59	V	-32.79		
4421.58	V	-43.12		
5404.99	V	---		
1745.33	Horizontal	-30.47	-13.00	Pass
2868.07	H	-37.85		
3567.08	H	-35.85		
4412.55	H	-35.27		
5147.38	H	---		

Remark :

- 4 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 5 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 6 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 7(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5229.24	Vertical	-31.36	-25.00	Pass
4861.49	V	-29.57		
10095.04	V	-32.76		
13594.37	V	-44.67		
15233.90	V	---		
5138.75	Horizontal	-31.41	-25.00	Pass
7945.61	H	-38.84		
10155.51	H	-36.00		
12812.66	H	-36.36		
15137.91	H	---		
Test mode:	LTE Band 7(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5158.09	Vertical	-30.16	-25.00	Pass
7641.18	V	-31.39		
10225.18	V	-31.68		
13285.64	V	-44.54		
15637.39	V	---		
5131.22	Horizontal	-33.71	-25.00	Pass
7739.07	H	-38.74		
10278.95	H	-35.48		
13878.34	H	-33.47		
15363.55	H	---		
Test mode:	LTE Band 7(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5240.99	Vertical	-32.92	-25.00	Pass
7884.97	V	-34.41		
10349.59	V	-30.92		
12924.92	V	-44.40		
15442.50	V	---		
5227.40	Horizontal	-31.62	-25.00	Pass
7739.73	H	-38.21		
10358.69	H	-36.10		
12779.27	H	-35.94		
15364.36	H	---		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 25(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5134.95	Vertical	-32.67	-13.00	Pass
7638.54	V	-30.74		
10125.37	V	-34.37		
12263.06	V	-40.73		
15331.04	V	---		
5049.56	Horizontal	-33.56	-13.00	Pass
7541.48	H	-35.48		
10559.82	H	-30.90		
12622.38	H	-32.94		
15241.82	H	---		
Test mode:	LTE Band 25(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5251.91	Vertical	-31.44	-13.00	Pass
7642.76	V	-29.16		
10226.28	V	-30.77		
12542.80	V	-42.17		
15514.04	V	---		
5220.32	Horizontal	-28.50	-13.00	Pass
7521.25	H	-32.01		
10266.78	H	-35.39		
13592.27	H	-35.58		
15318.87	H	---		
Test mode:	LTE Band 25(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5211.47	Vertical	-30.28	-13.00	Pass
7863.42	V	-31.86		
10012.58	V	-29.97		
12236.74	V	-44.12		
15504.84	V	---		
5307.42	Horizontal	-33.91	-13.00	Pass
7825.08	H	-38.40		
10404.44	H	-35.69		
12266.90	H	-33.86		
15326.97	H	---		

Remark :

- 4 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 5 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 6 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode(814-824MHz):	LTE Band 26(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3430.43	Vertical	-31.57	-13.00	Pass
7818.98	V	-31.68		
10131.33	V	-29.87		
12316.66	V	-44.16		
16343.04	V	---		
5193.38	Horizontal	-27.76	-13.00	Pass
7621.37	H	-38.97		
10263.53	H	-36.77		
12592.85	H	-33.97		
15219.20	H	---		
Test mode(814-824MHz):	LTE Band 26(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5131.95	Vertical	-28.86	-13.00	Pass
7644.30	V	-28.18		
10248.47	V	-30.90		
13279.93	V	-41.37		
15650.56	V	---		
5237.50	Horizontal	-28.19	-13.00	Pass
7701.00	H	-32.42		
10285.68	H	-35.03		
12662.17	H	-34.49		
15268.96	H	---		
Test mode(814-824MHz):	LTE Band 26(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5228.05	Vertical	-33.58	-13.00	Pass
7827.20	V	-29.82		
10349.31	V	-33.87		
12869.21	V	-42.33		
15444.21	V	---		
5143.14	Horizontal	-31.93	-13.00	Pass
7824.45	H	-37.83		
10343.96	H	-34.79		
12997.46	H	-35.45		
15270.27	H	---		

Remark :

- 4 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 5 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 6 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode(824-849MHz):	LTE Band 26(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3915.97	Vertical	-31.81	-13.00	Pass
5704.01	V	-28.42		
10252.37	V	-30.03		
12295.83	V	-43.59		
13527.14	V	---		
3846.31	Horizontal	-33.70	-13.00	Pass
7268.64	H	-36.10		
10307.60	H	-35.50		
12123.16	H	-35.89		
13343.83	H	---		
Test mode(824-849MHz):	LTE Band 26(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3692.02	Vertical	-32.11	-13.00	Pass
7910.34	V	-28.89		
10451.55	V	-30.50		
12033.55	V	-43.64		
15888.18	V	---		
3845.56	Horizontal	-31.35	-13.00	Pass
7584.86	H	-38.76		
10487.37	H	-35.06		
12534.00	H	-35.50		
15336.38	H	---		
Test mode(824-849MHz):	LTE Band 26(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3866.54	Vertical	-28.75	-13.00	Pass
7831.66	V	-25.42		
10452.31	V	-32.24		
12341.90	V	-43.65		
15618.28	V	---		
3904.65	Horizontal	-29.02	-13.00	Pass
7839.32	H	-35.39		
10458.47	H	-35.56		
12384.70	H	-36.06		
15288.04	H	---		

Remark :

- 4 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 5 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 6 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode	LTE Band 38(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
2629.59	Vertical	-30.88	-25.00	Pass
5256.79	V	-31.11		
10565.27	V	-30.47		
12217.85	V	-43.38		
13698.09	V	---		
2643.42	Horizontal	-33.09	-25.00	Pass
5233.64	H	-37.97		
10853.22	H	-37.01		
12305.02	H	-36.81		
13264.71	H	---		
Test mode	LTE Band 38(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
2758.99	Vertical	-29.09	-25.00	Pass
5484.59	V	-33.18		
10639.61	V	-31.37		
12867.05	V	-45.77		
15709.82	V	---		
2688.01	Horizontal	-33.23	-25.00	Pass
5436.76	H	-37.17		
10840.85	H	-36.88		
12309.81	H	-36.20		
15330.95	H	---		
Test mode	LTE Band 38(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
2627.16	Vertical	-30.20	-25.00	Pass
6894.96	V	-32.45		
10440.01	V	-30.49		
12727.28	V	-43.27		
15638.55	V	---		
2689.97	Horizontal	-28.54	-25.00	Pass
5192.79	H	-36.69		
10762.10	H	-36.75		
13308.06	H	-36.08		
16260.93	H	---		

Remark :

- 4 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 5 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 6 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode	LTE Band 41(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3676.50	Vertical	-28.31	-25.00	Pass
8634.69	V	-33.17		
10233.07	V	-34.19		
12662.83	V	-43.88		
13375.69	V	---		
3992.01	Horizontal	-32.30	-25.00	Pass
9811.57	H	-38.86		
10274.06	H	-37.33		
12318.22	H	-35.23		
13164.89	H	---		
Test mode	LTE Band 41(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3578.00	Vertical	-31.14	-25.00	Pass
5976.35	V	-32.50		
8944.53	V	-32.91		
10239.31	V	-43.43		
13802.43	V	---		
5869.91	Horizontal	-29.57	-25.00	Pass
7236.44	H	-41.50		
10342.33	H	-34.49		
12305.50	H	-26.35		
13262.36	H	---		
Test mode	LTE Band 41(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3116.17	Vertical	-33.78	-25.00	Pass
5637.90	V	-33.56		
8943.29	V	-34.17		
10362.94	V	-43.40		
12876.79	V	---		
5131.85	Horizontal	-32.44	-25.00	Pass
8676.15	H	-38.95		
10302.54	H	-35.31		
12711.03	H	-35.81		
13592.45	H	---		

Remark :

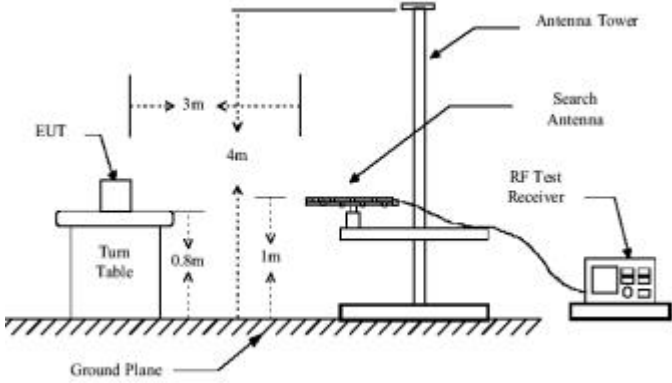
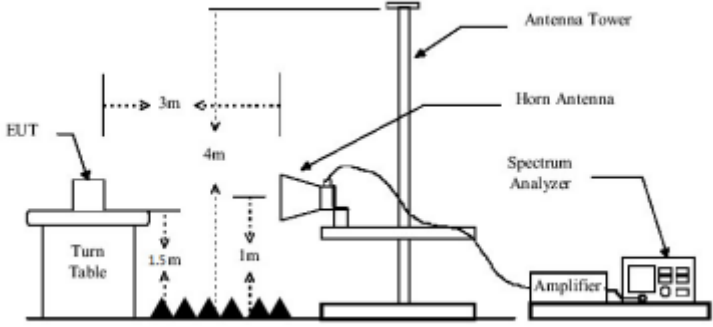
- 4 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 5 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 6 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

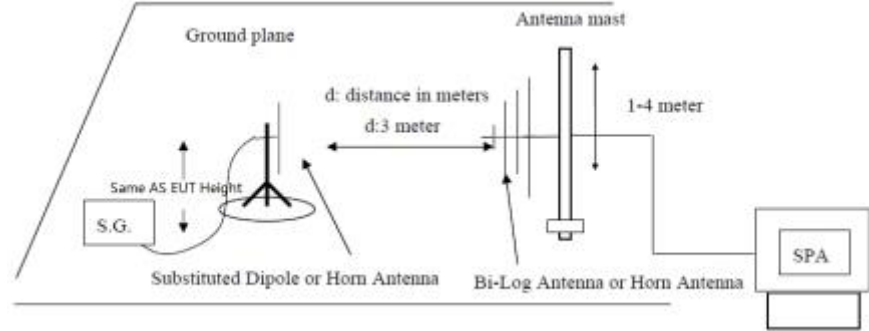
Test mode:	LTE Band 66(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3316.36	Vertical	-30.97	-13.00	Pass
5689.48	V	-32.73		
7305.43	V	-32.31		
8299.78	V	-45.00		
10442.52	V	---		
3335.15	Horizontal	-32.92	-13.00	Pass
5231.03	H	-39.32		
6951.96	H	-37.82		
8917.05	H	-36.69		
10268.71	H	---		
Test mode:	LTE Band 66(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
2887.82	Vertical	-35.25	-13.00	Pass
5370.83	V	-34.78		
7517.90	V	-35.46		
9866.59	V	-44.63		
10369.04	V	---		
3022.06	Horizontal	-32.92	-13.00	Pass
5236.41	H	-38.10		
7652.76	H	-37.27		
8886.55	H	-35.40		
10401.44	H	---		
Test mode:	LTE Band 66(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3750.07	Vertical	-31.51	-13.00	Pass
5314.92	V	-27.85		
7234.92	V	-33.32		
8632.86	V	-47.08		
10574.58	V	---		
3336.20	Horizontal	-33.63	-13.00	Pass
5293.04	H	-40.36		
7329.64	H	-37.37		
8880.19	H	-37.33		
10128.79	H	---		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission,all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

4.10 RECEIVER RADIATED SPURIOUS EMISSION

Test Requirement:	RSS-133 Issue 6 (6.6) RSS-Gen Issue 5 (7.3)		
Test Method:	ANSI C63.26:2015		
Limit:	Frequency	Limit (dBuV/m @3m)	Value
	30MHz-88MHz	40.00	Quasi-peak
	88MHz-216MHz	43.50	Quasi-peak
	216MHz-960MHz	46.00	Quasi-peak
	960MHz-1GHz	54.00	Quasi-peak
	Above 1GHz	74.00	Peak
	Above 1GHz	54.00	Average
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>		



Test Procedure:

1. The EUT was tested according to ANSI C63.4:2014.
 2. The EUT is placed on a turn table which is 0.8 meter above ground.
 3. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
 4. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
 5. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz,
RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold;
 - (3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz
- If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Test Instruments:

Refer to section 3 for details

Test mode:

Refer to section 4.1 for details

Test results:

Pass

Below 1GHz

Test Mode:		LTE Band 2 1880MHz						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
34.15	47.84	11.59	0.93	30.42	29.94	40	-10.06	Vertical
55.70	41.24	11.93	0.81	29.96	24.02	40	-15.98	Vertical
120.54	47.12	9.78	1.74	29.95	28.69	43.5	-14.81	Vertical
173.05	44.39	8.55	1.75	29.36	25.33	43.5	-18.17	Vertical
440.52	37.80	16.76	3.52	29.88	28.20	46	-17.80	Vertical
860.67	34.20	21.84	4.7	29.15	31.59	46	-14.41	Vertical
65.54	37.08	9.06	1.23	30.22	17.15	40	-22.85	Horizontal
100.10	34.88	12.09	1.55	30.06	18.46	43.5	-25.04	Horizontal
270.24	45.83	12.56	2.25	29.82	30.82	46	-15.18	Horizontal
351.61	36.88	14.6	2.72	29.83	24.37	46	-21.63	Horizontal
628.25	36.88	19.57	3.97	29.41	31.01	46	-14.99	Horizontal
955.87	41.17	22.91	5.43	29.47	40.04	46	-5.96	Horizontal

Test Results (Above 1GHz)

Test Mode:		LTE Band 2 1880MHz					
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.	Detector
1378.94	73.36	-24.32	49.04	74.00	-24.96	H	Peak
1827.42	72.45	-25.27	47.18	74.00	-26.82	H	Peak
2052.23	77.19	-26.04	51.15	74.00	-22.85	H	Peak
4038.06	71.71	-27.41	44.30	74.00	-29.70	H	Peak
4537.44	70.19	-27.73	42.46	74.00	-31.54	H	Peak
5114.16	78.31	-27.72	50.59	74.00	-23.41	H	Peak
1378.42	58.25	-24.32	33.93	54.00	-20.07	H	AVG
1827.42	63.70	-25.27	38.43	54.00	-15.57	H	AVG
2051.38	63.57	-26.04	37.53	54.00	-16.47	H	AVG
4038.69	64.73	-27.41	37.32	54.00	-16.68	H	AVG
4537.27	61.83	-27.73	34.10	54.00	-19.90	H	AVG
5113.66	62.48	-27.72	34.76	54.00	-19.24	H	AVG
1699.48	76.71	-24.26	52.45	74.00	-21.55	V	Peak
2057.67	72.39	-25.24	47.15	74.00	-26.85	V	Peak
1964.74	76.64	-26.09	50.55	74.00	-23.45	V	Peak
3800.58	70.64	-27.40	43.24	74.00	-30.76	V	Peak
4433.20	73.29	-27.65	45.64	74.00	-28.36	V	Peak
5078.73	76.30	-27.77	48.53	74.00	-25.47	V	Peak
1699.56	62.40	-24.26	38.14	54.00	-15.86	V	AVG
2057.43	63.24	-25.24	38.00	54.00	-16.00	V	AVG
1964.75	60.24	-26.09	34.15	54.00	-19.85	V	AVG
3800.99	64.37	-27.40	36.97	54.00	-17.03	V	AVG
4432.91	64.63	-27.65	36.98	54.00	-17.02	V	AVG
5078.19	66.26	-27.77	38.49	54.00	-15.51	V	AVG

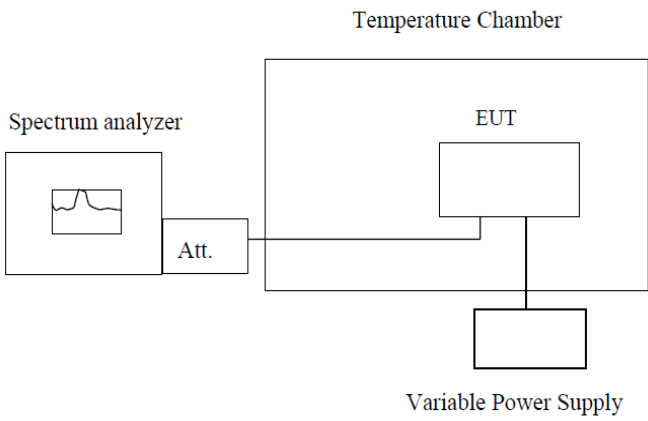
Level =Read Level + Factor; Over Limit=Level-Limit

Remark:

The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.

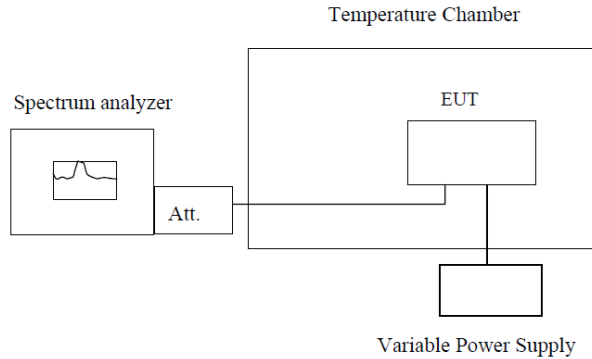
Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured and not show in test report.

4.11 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

Test Requirement:	Part 2.1055(a)(1)(b), Part 22.355, Part 24.235, Part 27.54, Part 90.213, RSS-132 (5.3), RSS-133 (5.4), RSS-Gen Issue 5 §6.11, RSS-139 (5.4), RSS-199 (5.4)
Test Method:	ANSI C63.26:2015
Limit:	2.5ppm(Part 22) Within the authorized bands of operation(Part 24, Part 27)
Test setup:	 <p>Note : Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> 1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass
Remark:	If all frequencies stability are comply with the lower limit, then all results can be considered qualified

Note: Please refer to Appendix F of the Appendix LTE Test Data.

4.12 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

Test Requirement:	Part 2.1055(d)(1)(2), Part 22.355, Part 24.235, Part 27.54, Part 90.213, RSS-132 (5.3), RSS-133 (5.4), RSS-Gen Issue 5 §6.11, RSS-139 (5.4), RSS-199 (5.4)
Test Method:	ANSI C63.26:2015
Limit:	2.5ppm Band II & Band VII should be within authorized band.
Test setup:	 <p>Note : Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> 1. Set chamber temperature to 20°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass
Remark:	<ol style="list-style-type: none"> 1. Manufacturer specified the battery operating end point voltage is 3.61VDC, max voltage is 4.18VDC. 2. If all frequencies stability are comply with the lower limit, then all results can be considered qualified

Note: Please refer to Appendix F of the Appendix LTE Test Data.

4.13 TEST SETUP PHOTO

Reference to the Test Setup Photo appendix I photos for details.

4.14 PHOTOS OF EUT

Reference to the appendix II external photos and appendix III internal photos for details.

-----END OF REPORT-----