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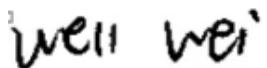
# TEST REPORT

**Application No.:** SUCR2403000065AT  
**Applicant:** COOSEA GROUP (HK) COMPANY LIMITED  
**Address of Applicant:** UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL  
**Manufacturer:** COOSEA GROUP (HK) COMPANY LIMITED  
**Address of Manufacturer:** UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL  
**EUT Description:** Smart Phone  
**Model No.:** SN339D  
**FCC ID:** 2A28USN339D  
**Standards:**  
47 CFR Part 2  
47 CFR Part 22  
47 CFR Part 24  
47 CFR Part 27  
47 CFR Part 90  
47 CFR Part 96  
**Date of Receipt:** 2024/03/12  
**Date of Test:** 2024/03/22 to 2024/03/25  
**Date of Issue:** 2024/03/26

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Well Wei  
Wireless Laboratory Manager



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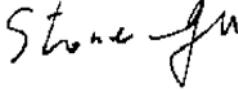
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## 1 Version

### Revision Record

Version	Chapter	Date	Modifier	Remark
01		2024/03/26		Original

Prepared By	 (King-p Li) / Test Engineer
Checked By	 (Stone Gu) / Reviewer

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## 2 Test Summary

### 2.1 GSM850/UMTS Band 5

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W		
Peak-Average Ratio	§22.913(d)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		Reference report SEWM2311000466RG01
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §22.355	±2.5ppm.		



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## 2.2 GSM 1900/UMTS Band 2

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Reference report SEWM2311000466RG01	
Peak-Average Ratio	§24.232(d)	Limits≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §24.235	Within authorized bands of operation/frequency block.	Reference report SEWM2311000466RG01	



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## 2.3 LTE Band 5/26(824~849 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	Reference report SEWM2311000466RG01	
Peak-Average Ratio	§22.913(d)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §22.355	±2.5ppm.		



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## 2.4 LTE Band 2

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Reference report SEWM2311000466RG01	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §24.235	Within authorized bands of operation/frequency block.	Reference report SEWM2311000466RG01	



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## 2.5 LTE Band 4 /66

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Reference report SEWM2311000466RG01	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Appendix	
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Reference report SEWM2311000466RG01	Pass



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## 2.6 LTE Band 12/17

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.		
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		Reference report SEWM2311000466RG01
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.		



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## 2.7 LTE Band 14

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.542(a)	ERP $\leq$ 3 W.		
Peak-Average Ratio	---	Limit $\leq$ 13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Emission Mask	§2.1051 §90.210(b)	<p>Transmitters designed for operation under this part on frequencies other than listed in this section must meet the emission mask requirements of Emission Mask B. Equipment operating under this part on frequencies allocated to but shared with the Federal Government, must meet the applicable Federal Government technical standards</p> <p>(b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:</p> <ul style="list-style-type: none"> <li>(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.</li> <li>(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.</li> <li>(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least <math>43 + 10 \log (P)</math> dB.</li> </ul>	Reference report SEWM2311000466RG01	
Band Edges Compliance	§2.1051 §90.543(e)(2)(3)	<p>(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than <math>76 + 10 \log (P)</math> dB in a 6.25 kHz band segment, for base and fixed stations.</p> <p>(2) On all frequencies between 769-775 MHz and 799-</p>		



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		805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.	
Spurious Emission at Antenna Terminals	§2.1051, §90.543(c) §90.543(f)	FCC: $\leq -13$ dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	
Field Strength of Spurious Radiation	§2.1053, §90.543(c) §90.543(f)	FCC: $\leq -13$ dBm/100 kHz. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §90.213	Within authorized bands of operation/frequency block.	

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## 2.8 LTE Band 26(814~824 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Transmitter Conducted Power Output	§2.1046, §90.635(b)	< 100 W.		
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Emission Mask	§2.1051 § 90.691(a)	For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.		Reference report SEWM2311000466RG01
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< $43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions		
Field Strength of Spurious Radiation	§2.1053, §90.691	< $43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §90.213	Within authorized bands of operation/frequency block.		



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## 2.9 LTE Band 30

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	EIRP $\leq$ 50mW/1MHz EIRP $\leq$ 250mW/5MHz		
Peak-Average Ratio	---	FCC: Limit $\leq$ 13 dB		
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(a)(4)	$\leq$ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	<p>Figure 1: Unwanted Emissions for Mobile, Portable, and Low Power Fixed Subscriber Equipment</p> <p>For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:</p> <ul style="list-style-type: none"> <li>(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;</li> <li>(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2305 and 2315 MHz, and 67 + 10 log (P) dB on all frequencies between 2315 and 2320 MHz.</li> </ul>	Reference report SEWM2311000466RG01	

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		between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz; (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.		
Field Strength of Spurious Radiation	§2.1053, §27.53(a)(4)	$\leq -40 \text{dBm/MHz}$ .	Appendix	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	within the range of the operating frequency blocks	Reference report SEWM2311000466RG01	



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## 2.10 LTE Band 71

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W		
Peak-Average Ratio	---	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		Reference report SEWM2311000466RG01
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	within the authorized bands of operation.		



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## 2.11 LTE Band 48

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41	EIRP ≤ 23dBm/10MHz		
Peak-Average Ratio	§96.41	FCC: Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Adjacent Channel Leakage Ratio	§96.41	the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.		
Band Edges Compliance	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge.		Reference report SEWM2311000466RG01
Spurious Emission at Antenna Terminals	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of		



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		emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.	
Field Strength of Spurious Radiation	§2.1053, §96.41	<p>for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz.</p> <p>(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.</p>	
Frequency Stability	§2.1055, §96.41	Within authorized bands of operation/ frequency block.	

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## Remark:

This test report (Report No.: SUCR240300006501 issue on 2024/03/26) is base on the original test report (Report No.: SEWM2311000466RG01 issue on 2024/01/26) .

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report all Band of Ant3 were tested and other test data refer to the previous report with report number SEWM2311000466RG01 issue on 2024/01/26.



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### 3 General Information

#### 3.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li

#### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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### 3.4 General Description of EUT

EUT Description:	Smart Phone		
Model No.:	SN339D		
Hardware Version:	1.0		
Software Version:	SN339DD10010		
Power Supply:	5V		
IMEI:	356704760004835		
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated		
Antenna Gain:	GSM850:	-3dBi (Ant0)	GSM1900: 0.95dBi (Ant3)
	WCDMA Band II:	0.95dBi (Ant3)	WCDMA Band V: -3dBi (Ant0)
	LTE Band 2:	0.95dBi (Ant3)	LTE Band 4: -0.43dBi (Ant3)
	LTE Band 5:	-3dBi (Ant0)	LTE Band 12: -1.2dBi (Ant0)
	LTE Band 14:	-3.3dBi (Ant0)	LTE Band 17: -1.2dBi (Ant0)
	LTE Band 26:	-3dBi (Ant0)	LTE Band 30: -2.8dBi (Ant3)
	LTE Band 48:	-0.68dBi (Ant4)	LTE Band 66: -0.43dBi (Ant3)
	LTE Band 71:	-2.2dBi (Ant0)	
	<p><b>Note:</b>            The antenna gain are derived from the gain information report provided by the manufacturer.</p>		
<p><b>Remark:</b>            As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>			



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### 3.5 Test Mode

Test Mode	Test Modes Description
GSM/TM1	GSM system, GSM/GPRS, GMSK modulation
GSM/TM2	GSM system, EGPRS, 8PSK modulation
UMTS/TM1	UMTS system, WCDMA, QPSK modulation
LTE/TM1	LTE system, QPSK modulation
LTE/TM2	LTE system, 16QAM modulation
LTE/TM3	LTE system, 64QAM modulation
LTE/TM4	LTE system, 256QAM modulation

Remark: The test mode(s) are selected according to relevant radio technology specifications.

### 3.6 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.8
LTLV	-30	3.4
LTHV	-30	4.4
HTLV	50	3.4
HTHV	50	4.4

Remark:

NV: Normal Voltage	LV: Low Extreme Test Voltage	HV: High Extreme Test Voltage
NT: Normal Temperature	LT: Low Extreme Test Temperature	HT: High Extreme Test Temperature

### 3.7 Description of Support Units

Description	Manufacturer	Model No.
Power Adapter	ShenZhen Baijunda Electronic Co.,Ltd	UT-681A-5200A1Y

Remark: The information of table are provided by client.



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### 3.8 Technical Specification

Characteristics	Description		
Radio System Type	<input checked="" type="checkbox"/> GSM	<input checked="" type="checkbox"/> UMTS	<input checked="" type="checkbox"/> LTE
Supported Frequency Range	Band	TX	RX
	GSM850	824 to 849 MHz	869 to 894 MHz
	GSM1900	1850 to 1910 MHz	1930 to 1990 MHz
	UMTS Band II	1850 to 1910 MHz	1930 to 1990 MHz
	UMTS Band V	824 to 849 MHz	869 to 894 MHz
	LTE Band 2	1850 to 1910 MHz	1930 to 1990 MHz
	LTE Band 4	1710 to 1755 MHz	2110 to 2155 MHz
	LTE Band 5	824 to 849 MHz	869 to 894 MHz
	LTE Band 12	699 to 716 MHz	729 to 746 MHz
	LTE Band 14	788 to 798 MHz	758 to 768 MHz
	LTE Band 17	704 to 716 MHz	734 to 746 MHz
	LTE Band 26 (814 to 824 MHz )	814 to 824MHz	859 to 869 MHz
	LTE Band 26 (824 to 849 MHz )	824 to 849 MHz	869 to 894 MHz
	LTE Band 30	2305 to 2315 MHz	2350 to 2360 MHz
	LTE Band 48	3550 to 3700 MHz	3550 to 3700 MHz
	LTE Band 66	1710 to 1780 MHz	2110 to 2200 MHz
	LTE Band 71	663 to 698 MHz	617 to 652 MHz
LTE UL CA: UL CA_2A-12A;UL CA_12A-66A;UL CA_4A-12A;UL CA_2A-5A; UL CA_2A-14A;UL CA_5A-66A LTE DL CA: CA_2C; CA_66C; CA_2A-2A; CA_2A-4A; CA_2A-5A; CA_2A-12A; CA_2A-29A; CA_2A-66A; CA_2A-71A; CA_4A-4A; CA_4A-5A; CA_4A-12A; CA_4A-71A; CA_5A-66A; CA_12A-66A; CA_29A-66A; CA_66A-66A; CA_66A-71A; CA_66B; CA_4A-29A; CA_48B; CA_48C; CA_2A-14A;CA_2A-30A; CA_2A-48A; CA_4A-30A; CA_5A-30A; CA_12A-30A; CA_14A-30A; CA_14A-66A; CA_29A-30A; CA_30A-66A; CA_48A-66A; Remark: ULCA inter-band Only test RSE, report only show worst mode.			
Supported Channel Bandwidth	GSM system:	<input checked="" type="checkbox"/> 0.2 MHz	
	UMTS system:	<input checked="" type="checkbox"/> 5 MHz	



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LTE Band 2	<input checked="" type="checkbox"/> 1.4 MHz	<input checked="" type="checkbox"/> 3 MHz	<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz
	<input checked="" type="checkbox"/> 15 MHz	<input checked="" type="checkbox"/> 20 MHz		
LTE Band 4	<input checked="" type="checkbox"/> 1.4 MHz	<input checked="" type="checkbox"/> 3 MHz	<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz
	<input checked="" type="checkbox"/> 15 MHz	<input checked="" type="checkbox"/> 20 MHz		
LTE Band 5	<input checked="" type="checkbox"/> 1.4 MHz	<input checked="" type="checkbox"/> 3 MHz	<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz
LTE Band 12	<input checked="" type="checkbox"/> 1.4 MHz	<input checked="" type="checkbox"/> 3 MHz	<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz
LTE Band 14	<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz		
LTE Band 17	<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz		
LTE Band 26(814-824)	<input checked="" type="checkbox"/> 1.4 MHz	<input checked="" type="checkbox"/> 3 MHz	<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz
LTE Band 26(824-849)	<input checked="" type="checkbox"/> 1.4 MHz	<input checked="" type="checkbox"/> 3 MHz	<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz
	<input checked="" type="checkbox"/> 15 MHz			
LTE Band30	<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz		
LTE Band48	<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz	<input checked="" type="checkbox"/> 15 MHz	<input checked="" type="checkbox"/> 20 MHz
LTE Band66	<input checked="" type="checkbox"/> 1.4 MHz	<input checked="" type="checkbox"/> 3 MHz	<input checked="" type="checkbox"/> 5 MHz	<input checked="" type="checkbox"/> 10 MHz
	<input checked="" type="checkbox"/> 15MHz	<input checked="" type="checkbox"/> 20MHz		
LTE Band71	<input checked="" type="checkbox"/> 5MHz	<input checked="" type="checkbox"/> 10MHz	<input checked="" type="checkbox"/> 15MHz	<input checked="" type="checkbox"/> 20MHz
Note: WCDMA supports HSUPA, HSDPA, DC-HSDPA, HSPA+, but only the worst case was tested and the data displayed in this report.				

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### 3.9 Test Frequencies

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
GSM850	TX	Channel 128	Channel 190	Channel 251
		824.2MHz	836.6 MHz	848.8 MHz
	RX	Channel 128	Channel 190	Channel 251
		869.2 MHz	881.6 MHz	893.8 MHz

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
GSM1900	TX	Channel 512	Channel 661	Channel 810
		1850.2MHz	1880.0 MHz	1909.8 MHz
	RX	Channel 512	Channel 661	Channel 810
		1930.2 MHz	1960.0 MHz	1989.8 MHz

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA Band II	TX	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz
	RX	Channel 9662	Channel 9800	Channel 9938
		1932.4 MHz	1960.0 MHz	1987.6 MHz

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA Band V	TX	Channel 4132	Channel 4182	Channel 4233
		826.4MHz	836.4 MHz	846.6 MHz
	RX	Channel 4357	Channel 4407	Channel 4458
		871.4 MHz	881.4 MHz	891.6 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 2	1.4MHz	TX	Channel 18607	Channel 18900	Channel 19193
			1850.7 MHz	1880 MHz	1909.3 MHz
	3MHz	RX	Channel 607	Channel 900	Channel 1193
			1930.7 MHz	1960 MHz	1989.3 MHz
	5MHz	TX	Channel 18615	Channel 18900	Channel 19185
			1851.5 MHz	1880 MHz	1908.5 MHz
	10MHz	RX	Channel 615	Channel 900	Channel 1185
			1931.5 MHz	1960 MHz	1988.5 MHz
	15MHz	TX	Channel 18625	Channel 18900	Channel 19175
			1852.5 MHz	1880 MHz	1907.5 MHz
	20MHz	RX	Channel 625	Channel 900	Channel 1175
			1932.5 MHz	1960 MHz	1987.5 MHz
	TX	RX	Channel 18650	Channel 18900	Channel 19150
			1855 MHz	1880 MHz	1905 MHz
	TX	RX	Channel 650	Channel 900	Channel 1150
			1935 MHz	1960 MHz	1985 MHz
	TX	RX	Channel 18675	Channel 18900	Channel 19125
			1857.5 MHz	1880 MHz	1902.5 MHz
	TX	RX	Channel 675	Channel 900	Channel 1125
			1937.5 MHz	1960 MHz	1982.5 MHz
	TX	RX	Channel 18700	Channel 18900	Channel 19100
			1860 MHz	1880 MHz	1900 MHz
	RX	TX	Channel 700	Channel 900	Channel 1100
			1940 MHz	1960 MHz	1980 MHz

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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 4	1.4MHz	TX	Channel 19957	Channel 20175	Channel 20393
			1710.7 MHz	1732.5 MHz	1754.3 MHz
		RX	Channel 1975	Channel 2175	Channel 2375
			2112.5 MHz	2132.5MHz	2152.5 MHz
	3MHz	TX	Channel 19965	Channel 20175	Channel 20385
			1711.5 MHz	1732.5 MHz	1753.5 MHz
		RX	Channel 2000	Channel 2175	Channel 2350
			2115 MHz	2132.5MHz	2150 MHz
	5MHz	TX	Channel 19975	Channel 20175	Channel 20375
			1712.5 MHz	1732.5 MHz	1752.5 MHz
		RX	Channel 1975	Channel 2175	Channel 2375
			2112.5 MHz	2132.5MHz	2152.5 MHz
LTE Band 5	10MHz	TX	Channel 20000	Channel 20175	Channel 20350
			1715 MHz	1732.5 MHz	1750 MHz
		RX	Channel 2000	Channel 2175	Channel 2350
			2115 MHz	2132.5MHz	2150 MHz
	15MHz	TX	Channel 20025	Channel 20175	Channel 20325
			1717.5 MHz	1732.5 MHz	1747.5 MHz
		RX	Channel 2025	Channel 2175	Channel 2325
			2117.5 MHz	2132.5MHz	2147.5 MHz
	20MHz	TX	Channel 20050	Channel 20175	Channel 20300
			1720 MHz	1732.5 MHz	1745 MHz
		RX	Channel 2050	Channel 2175	Channel 2300
			2120 MHz	2132.5MHz	2145 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 5	1.4MHz	TX	Channel 20407	Channel 20525	Channel 20643
			824.7 MHz	836.5 MHz	848.3 MHz
		RX	Channel 2407	Channel 2525	Channel 2643
			869.7 MHz	881.5 MHz	893.3 MHz
	3MHz	TX	Channel 20415	Channel 20525	Channel 20635
			825.5 MHz	836.5 MHz	847.5 MHz
		RX	Channel 2415	Channel 2525	Channel 2635
			870.5 MHz	881.5 MHz	892.5 MHz
	5MHz	TX	Channel 20425	Channel 20525	Channel 20625
			826.5 MHz	836.5 MHz	846.5 MHz
		RX	Channel 2425	Channel 2525	Channel 2625
			871.5 MHz	881.5 MHz	891.5 MHz
	10MHz	TX	Channel 20450	Channel 20525	Channel 20600
			829 MHz	836.5 MHz	844 MHz
		RX	Channel 2450	Channel 2525	Channel 2600
			874 MHz	881.5 MHz	889 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 12	1.4MHz	TX	Channel 23017	Channel 23095	Channel 23173
			699.7 MHz	707.5 MHz	715.3 MHz
	3MHz	RX	Channel 5017	Channel 5095	Channel 5173
			729.7 MHz	737.5 MHz	745.3 MHz
	5MHz	TX	Channel 23025	Channel 23095	Channel 23165
			700.5 MHz	707.5 MHz	714.5 MHz
LTE Band 12	10MHz	RX	Channel 5025	Channel 5095	Channel 5165
			730.5 MHz	737.5 MHz	744.5 MHz
	TX	TX	Channel 23035	Channel 23095	Channel 23155
			701.5 MHz	707.5 MHz	713.5 MHz
	RX	RX	Channel 5035	Channel 5095	Channel 5155
			731.5 MHz	737.5 MHz	743.5 MHz
LTE Band 12	TX	TX	Channel 23060	Channel 23095	Channel 23130
			704 MHz	707.5 MHz	711 MHz
	RX	RX	Channel 5060	Channel 5095	Channel 5130
			734 MHz	737.5 MHz	741 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 14	5MHz	TX	Channel 23305	Channel 23330	Channel 23355
			790.5 MHz	793 MHz	795.5 MHz
	RX	RX	Channel 5305	Channel 5330	Channel 5355
			760.5 MHz	763 MHz	765.5 MHz
	10MHz	TX	Channel 23330	Channel 23330	Channel 23330
			793MHz	793 MHz	793 MHz
LTE Band 14	RX	RX	Channel 5330	Channel 5330	Channel 5330
			763MHz	763 MHz	763 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 17	5MHz	TX	Channel 23755	Channel 23790	Channel 23825
			706.5 MHz	710 MHz	713.5 MHz
	RX	RX	Channel 5755	Channel 5790	Channel 5825
			736.5 MHz	740 MHz	743.5 MHz
	10MHz	TX	Channel 23780	Channel 23790	Channel 23800
			709 MHz	710 MHz	711 MHz
LTE Band 17	RX	RX	Channel 5780	Channel 5790	Channel 5800
			739 MHz	740 MHz	741 MHz

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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 26 (814-824)	1.4MHz	TX	Channel 26697	Channel 26740	Channel 26783
			814.7 MHz	819 MHz	823.3 MHz
	3MHz	RX	Channel 8697	Channel 8740	Channel 8783
			859.7 MHz	864MHz	868.3 MHz
	5MHz	TX	Channel 26705	Channel 26740	Channel 26775
			815.5 MHz	819 MHz	822.5 MHz
	10MHz	RX	Channel 8705	Channel 8740	Channel 8775
			860.5 MHz	864MHz	867.5 MHz
LTE Band26 (824-849)	1.4MHz	TX	Channel 26715	Channel 26740	Channel 26765
			816.5 MHz	819 MHz	821.5 MHz
	3MHz	RX	Channel 8715	Channel 8740	Channel 8755
			861.5 MHz	864MHz	866.5 MHz
	5MHz	TX	Channel 26740	Channel 26740	Channel 26740
			819 MHz	819 MHz	819 MHz
	10MHz	RX	Channel 8740	Channel 8740	Channel 8740
			864MHz	864MHz	864MHz
LTE Band26 (824-849)	1.4MHz	TX	Channel 26797	Channel 26915	Channel 27033
			824.7 MHz	836.5 MHz	848.3 MHz
	3MHz	RX	Channel 8697	Channel 8915	Channel 9033
			859.7 MHz	881.5 MHz	893.3 MHz
	5MHz	TX	Channel 26805	Channel 26915	Channel 27025
			825.5 MHz	836.5 MHz	847.5 MHz
	10MHz	RX	Channel 8805	Channel 8915	Channel 9025
			860.5 MHz	881.5 MHz	892.5 MHz
	15MHz	TX	Channel 26815	Channel 26915	Channel 27015
			826.5 MHz	836.5 MHz	846.5 MHz
	15MHz	RX	Channel 8815	Channel 8915	Channel 9015
			871.5 MHz	881.5 MHz	891.5 MHz
	15MHz	TX	Channel 26840	Channel 26915	Channel 26990
			829 MHz	836.5 MHz	844 MHz
	15MHz	RX	Channel 8840	Channel 8915	Channel 8990
			874 MHz	881.5 MHz	889 MHz
	15MHz	TX	Channel 26865	Channel 26915	Channel 26965
			831.5 MHz	836.5 MHz	841.5 MHz
	15MHz	RX	Channel 8865	Channel 8915	Channel 8965
			876.5 MHz	881.5 MHz	886.5 MHz

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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 30	5MHz	TX	Channel 27685	Channel 27710	Channel 27735
			2307.5 MHz	2310MHz	2312.5 MHz
	RX	RX	Channel 9795	Channel 9820	Channel 9845
			2352.5MHz	2355 MHz	2357.5MHz
	10MHz	TX	Channel 27710	Channel 27710	Channel 27710
			2310 MHz	2310MHz	2310MHz
	RX	RX	Channel 9820	Channel 9820	Channel 9820
			2355 MHz	2355 MHz	2355 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 48	5MHz	TX/RX	Channel 55265	Channel 55990	Channel 56715
			3552.5 MHz	3625.0 MHz	3697.5 MHz
	10MHz	TX/RX	Channel 55290	Channel 55990	Channel 56690
			3555.0 MHz	3625.0 MHz	3695.0 MHz
	15MHz	TX/RX	Channel 55315	Channel 55990	Channel 56665
			3557.5 MHz	3625.0 MHz	3692.5 MHz
	20MHz	TX/RX	Channel 55340	Channel 55990	Channel 56640
			3560.0 MHz	3625.0 MHz	3690.0 MHz

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Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band66 (RX 2110-2200)	1.4MHz	TX	Channel 131979	Channel 132322	Channel 132665
			1710.7 MHz	1745 MHz	1779.3 MHz
		RX	Channel 66443	Channel 66786	Channel 67329
			2110.7 MHz	2145MHz	2199.3 MHz
	3MHz	TX	Channel 131987	Channel 132322	Channel 132657
			1711.5 MHz	1745 MHz	1778.5MHz
		RX	Channel 66451	Channel 66786	Channel 67321
			2111.5 MHz	2145MHz	2198.5MHz
	5MHz	TX	Channel 131997	Channel 132322	Channel 132647
			1712.5 MHz	1745 MHz	1777.5 MHz
		RX	Channel 66461	Channel 66786	Channel 67311
			2112.5 MHz	2145MHz	2197.5 MHz
LTE Band71 (RX 2110-2200)	10MHz	TX	Channel 132022	Channel 132322	Channel 132622
			1715 MHz	1745 MHz	1775 MHz
		RX	Channel 66486	Channel 66786	Channel 67286
			2115 MHz	2145MHz	2195 MHz
	15MHz	TX	Channel 132047	Channel 132322	Channel 132597
			1717.5 MHz	1745 MHz	1772.5 MHz
		RX	Channel 66511	Channel 66786	Channel 67261
			2117.5 MHz	2145MHz	2192.5 MHz
	20MHz	TX	Channel 132072	Channel 132322	Channel 132572
			1720 MHz	1745 MHz	1770 MHz
		RX	Channel 66536	Channel 66786	Channel 67236
			2120 MHz	2145MHz	2190 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band71 (RX 2110-2200)	5MHz	TX	Channel 133147	Channel 133297	Channel 133447
			665.5 MHz	680.5 MHz	695.5 MHz
		RX	Channel 68611	Channel 68761	Channel 68911
			619.5 MHz	634.5 MHz	649.5 MHz
	10MHz	TX	Channel 133172	Channel 133297	Channel 133422
			668 MHz	680.5 MHz	693 MHz
		RX	Channel 68636	Channel 68761	Channel 68886
			622 MHz	634.5 MHz	647 MHz
	15MHz	TX	Channel 133197	Channel 133297	Channel 133397
			670.5 MHz	680.5 MHz	690.5 MHz
		RX	Channel 68661	Channel 68761	Channel 68861
			624.5 MHz	634.5 MHz	644.5 MHz
	20MHz	TX	Channel 133222	Channel 133297	Channel 133372
			673 MHz	680.5 MHz	688 MHz
		RX	Channel 68686	Channel 68761	Channel 68836
			627 MHz	634.5 MHz	642 MHz



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## 4 Description of Tests

### 4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

**Remark: Reference test setup 1**



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## 4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB

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## 4.3 EIRP Power Density

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.3

### **Test Settings**

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to the specified reference bandwidth (often 1 MHz).
4. Set VBW  $\geq 3 \times$  RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep  $\geq 2 \times$  span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).



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## 4.4 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2 & 4.3

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

### Remark: Reference test setup 1

#### Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW  $\geq$  3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7



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## 4.5 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel) in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to rms.

### Remark: Reference test setup 1

#### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW  $\geq$  1% of the emission bandwidth
4. VBW  $\geq$  3 x RBW
5. Detector = RMS
6. Number of sweep points  $\geq$  2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize



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## 4.6 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

### Remark: Reference test setup 1

#### Test Settings

1. Start frequency was set to 9kHz and stop frequency was set to at least  $10^*$  the fundamental frequency(Separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissinos, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings



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## 4.7 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.

### Remark: Reference test setup 1

#### Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power



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## 4.8 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

### Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

$E (\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level } (\text{dB}\mu\text{V}) + (\text{Cable Loss } (\text{dB}) + \text{Antenna Factor } (\text{dB}/\text{m}) - \text{AMP}(\text{dB}))$   
 $EIRP (\text{dBm}) = E (\text{dB}\mu\text{V}/\text{m}) + 20 \log D - 104.8$ ; where D is the measurement distance in meters

### Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

$E (\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level } (\text{dB}\mu\text{V}) + (\text{Cable Loss } (\text{dB}) + \text{Antenna Factor } (\text{dB}/\text{m}) - \text{AMP}(\text{dB}))$   
 $EIRP (\text{dBm}) = E (\text{dB}\mu\text{V}/\text{m}) + 20 \log D - 104.8$ ; where D is the measurement distance in meters

- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by  $20 \times \log(3/1) = 9.54 \text{ dB}$ .

### Remark: Reference test setup 2

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit - Level

- 2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

- 3) All modes have been tested, but only the worst case data displayed in this report.



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## 4.9 Frequency Stability / Temperature Variation

### Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01; Section 9

. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5 \text{ ppm}$ ) of the center frequency.

### Time Period and Procedure:

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

### Remark: Reference test setup 3



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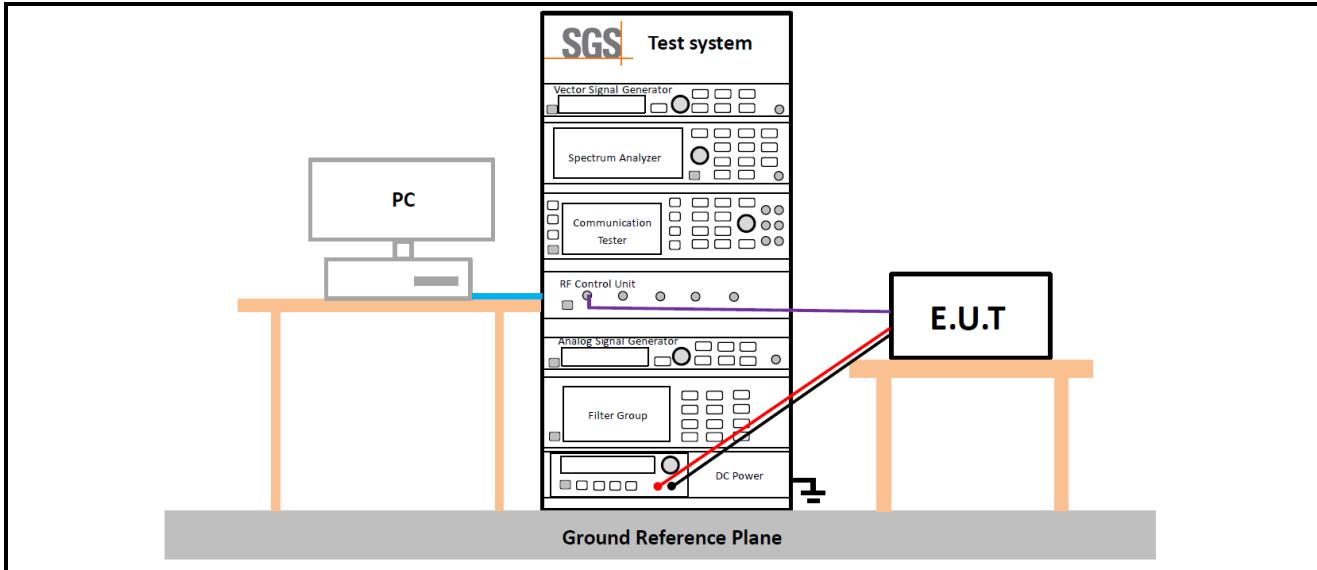
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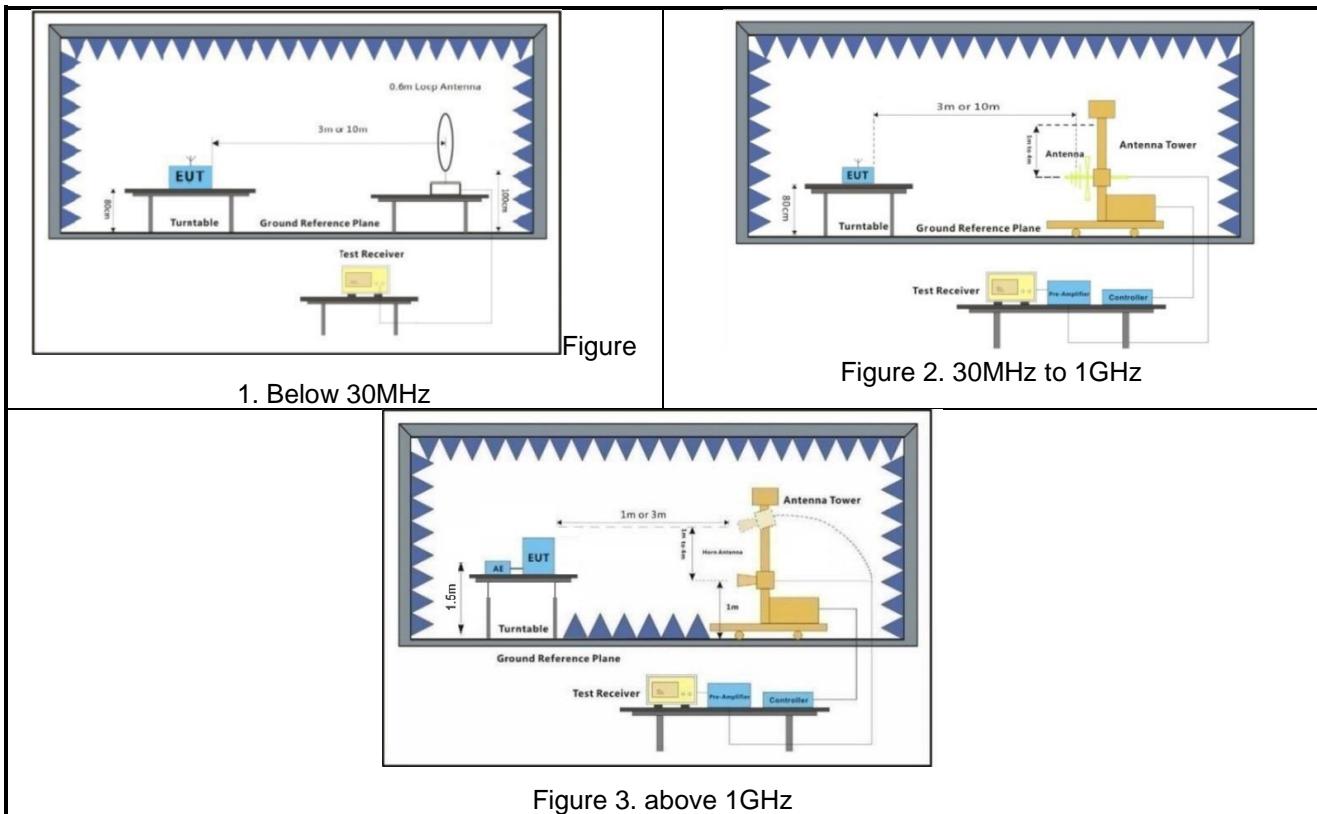
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## 4.10 Test Setups

### 4.10.1 Test Setup 1



### 4.10.2 Test Setup 2



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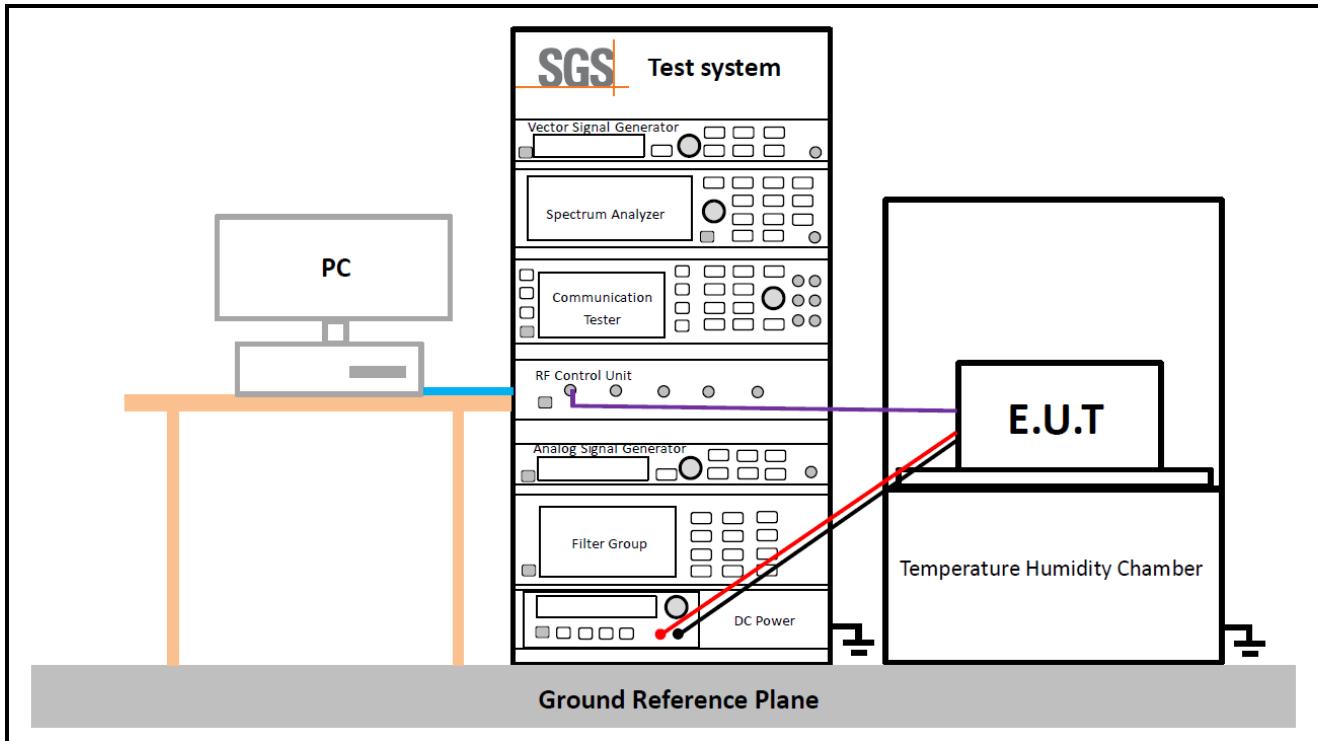
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#### 4.10.3 Test Setup 3



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## 4.11 Test Conditions

Field Strength of Spurious Radiation	
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 2
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	GSM/TM1; UMTS/TM1; LTE/TM1 Remark: All bandwidth and modulation of GSM/ UMTS/LTE have been pre tested, and only the worst results are reflected in the report.



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## 5 Main Test Instruments

RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2024/02/18	2025/02/17
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2024/02/01	2025/01/31
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2024/02/01	2025/01/31
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2024/02/01	2025/01/31
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2024/02/01	2025/01/31
Radio Communication Analyzer	Anritsu	MT8820C	SUWI-01-26-01	2023/09/13	2024/09/12
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.



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## 6 Measurement Uncertainty

For a 95% confidence level ( $k = 2$ ), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

No.	Item	Measurement Uncertainty
1	Radiated Emission	± 3.13dB (9k to 30MHz)
		± 4.8dB (30M to 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:  
The  $U_{lab}$  (lab Uncertainty) is less than  $U_{cisp/ETSI}$  (CISPR/ETSI Uncertainty), so the test results  
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;  
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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## 7 Photographs

Refer to Appendix A.1 - WWAN Setup Photos.



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# Appendix



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## Field Strength of Spurious Radiation For GSM

Test Band = GSM 1900

Test Channel = Low Channel

<b>Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	51.40	-43.01	30.28	-56.59	-13.00	43.59	Horizontal
2	5550.6	35.31	-40.67	33.27	-67.34	-13.00	54.34	Horizontal
3	7400.8	34.67	-37.89	36.48	-62.00	-13.00	49.00	Horizontal
4	9251	30.20	-34.29	37.68	-61.68	-13.00	48.68	Horizontal
5	11101.2	28.39	-30.26	38.40	-58.73	-13.00	45.73	Horizontal
6	12951.4	29.08	-29.75	39.54	-56.39	-13.00	43.39	Horizontal

<b>Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	60.46	-43.01	30.28	-47.53	-13.00	34.53	Vertical
2	5550.6	43.26	-40.67	33.27	-59.39	-13.00	46.39	Vertical
3	7400.8	35.92	-37.89	36.48	-60.75	-13.00	47.75	Vertical
4	9251	29.87	-34.29	37.68	-62.01	-13.00	49.01	Vertical
5	11101.2	28.44	-30.26	38.40	-58.68	-13.00	45.68	Vertical
6	12951.4	30.17	-29.75	39.54	-55.30	-13.00	42.30	Vertical

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**Test Band = GSM 1900**  
**Test Channel = Mid Channel**

Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	50.97	-42.94	30.49	-56.75	-13.00	43.75	Horizontal
2	5640	40.77	-40.63	33.58	-61.54	-13.00	48.54	Horizontal
3	7520	34.21	-37.77	36.62	-62.20	-13.00	49.20	Horizontal
4	9400	31.80	-33.75	37.72	-59.49	-13.00	46.49	Horizontal
5	11280	28.26	-30.09	38.40	-58.69	-13.00	45.69	Horizontal
6	13160	27.93	-29.29	39.71	-56.91	-13.00	43.91	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	50.16	-42.94	30.49	-57.56	-13.00	44.56	Vertical
2	5640	48.74	-40.63	33.58	-53.57	-13.00	40.57	Vertical
3	7520	38.65	-37.77	36.62	-57.76	-13.00	44.76	Vertical
4	9400	33.10	-33.75	37.72	-58.19	-13.00	45.19	Vertical
5	11280	28.03	-30.09	38.40	-58.92	-13.00	45.92	Vertical
6	13160	28.64	-29.29	39.71	-56.20	-13.00	43.20	Vertical

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**Test Band = GSM 1900**  
**Test Channel = High Channel**

<b>Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6	40.41	-42.88	30.69	-67.05	-13.00	54.05	Horizontal
2	5729.5	34.39	-40.42	33.88	-67.41	-13.00	54.41	Horizontal
3	7639.2	33.61	-37.57	36.74	-62.48	-13.00	49.48	Horizontal
4	9549	32.64	-33.69	37.76	-58.54	-13.00	45.54	Horizontal
5	11458.8	28.04	-30.14	38.40	-58.96	-13.00	45.96	Horizontal
6	13368.6	28.59	-29.74	39.86	-56.55	-13.00	43.55	Horizontal

<b>Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6	52.63	-42.88	30.69	-54.83	-13.00	41.83	Vertical
2	5729.5	37.02	-40.42	33.88	-64.78	-13.00	51.78	Vertical
3	7639.2	37.05	-37.57	36.74	-59.04	-13.00	46.04	Vertical
4	9549	34.47	-33.69	37.76	-56.71	-13.00	43.71	Vertical
5	11458.8	28.37	-30.14	38.40	-58.63	-13.00	45.63	Vertical
6	13368.6	28.27	-29.74	39.86	-56.87	-13.00	43.87	Vertical

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**For WCDMA****Test Band = WCDMA Band II\_ TM1****Test Channel = Low Channel**

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3706.5	48.12	-43.00	30.30	-59.84	-13.00	46.84	Horizontal
2	5557.2	35.22	-40.67	33.30	-67.42	-13.00	54.42	Horizontal
3	7409.6	33.82	-37.88	36.49	-62.83	-13.00	49.83	Horizontal
4	9262	30.24	-34.26	37.68	-61.60	-13.00	48.60	Horizontal
5	11114.4	28.77	-30.26	38.40	-58.35	-13.00	45.35	Horizontal
6	12966.8	29.55	-29.67	39.56	-55.81	-13.00	42.81	Horizontal

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.75	47.05	-43.01	30.29	-60.93	-13.00	47.93	Vertical
2	5557.2	34.41	-40.67	33.30	-68.23	-13.00	55.23	Vertical
3	7409.6	34.06	-37.88	36.49	-62.59	-13.00	49.59	Vertical
4	9262	29.84	-34.26	37.68	-62.00	-13.00	49.00	Vertical
5	11114.4	28.58	-30.26	38.40	-58.54	-13.00	45.54	Vertical
6	12966.8	29.99	-29.67	39.56	-55.37	-13.00	42.37	Vertical

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**Test Band = WCDMA Band II\_ TM1**

**Test Channel = Mid Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3761.25	51.97	-42.94	30.49	-55.74	-13.00	42.74	Horizontal
2	5640	34.90	-40.63	33.58	-67.41	-13.00	54.41	Horizontal
3	7520	32.37	-37.77	36.62	-64.04	-13.00	51.04	Horizontal
4	9400	30.96	-33.75	37.72	-60.33	-13.00	47.33	Horizontal
5	11280	27.92	-30.09	38.40	-59.03	-13.00	46.03	Horizontal
6	13160	28.22	-29.29	39.71	-56.62	-13.00	43.62	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3761.25	44.48	-42.94	30.49	-63.23	-13.00	50.23	Vertical
2	5640	34.21	-40.63	33.58	-68.10	-13.00	55.10	Vertical
3	7520	31.84	-37.77	36.62	-64.57	-13.00	51.57	Vertical
4	9400	31.07	-33.75	37.72	-60.22	-13.00	47.22	Vertical
5	11280	28.51	-30.09	38.40	-58.44	-13.00	45.44	Vertical
6	13160	28.01	-29.29	39.71	-56.83	-13.00	43.83	Vertical

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**Test Band = WCDMA Band II\_ TM1**

**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3813	51.29	-42.89	30.66	-56.20	-13.00	43.20	Horizontal
2	5722.8	34.71	-40.44	33.86	-67.13	-13.00	54.13	Horizontal
3	7630	34.06	-37.60	36.73	-62.07	-13.00	49.07	Horizontal
4	9538	32.65	-33.73	37.76	-58.58	-13.00	45.58	Horizontal
5	11445.6	28.59	-30.19	38.40	-58.46	-13.00	45.46	Horizontal
6	13353.2	28.48	-29.74	39.85	-56.67	-13.00	43.67	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3813.75	52.27	-42.89	30.67	-55.21	-13.00	42.21	Vertical
2	5722.8	34.52	-40.44	33.86	-67.32	-13.00	54.32	Vertical
3	7630	33.93	-37.60	36.73	-62.20	-13.00	49.20	Vertical
4	9538	33.17	-33.73	37.76	-58.06	-13.00	45.06	Vertical
5	11445.6	28.24	-30.19	38.40	-58.81	-13.00	45.81	Vertical
6	13353.2	28.51	-29.74	39.85	-56.64	-13.00	43.64	Vertical



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## For LTE

Test Band = LTE Band 2\_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702	54.91	-43.01	30.29	-53.07	-13.00	40.07	Horizontal
2	5553.27	36.33	-40.67	33.28	-66.32	-13.00	53.32	Horizontal
3	7404.36	34.55	-37.88	36.49	-62.11	-13.00	49.11	Horizontal
4	9255.45	33.35	-34.28	37.68	-58.51	-13.00	45.51	Horizontal
5	11106.54	28.75	-30.26	38.40	-58.37	-13.00	45.37	Horizontal
6	12957.63	30.23	-29.72	39.55	-55.20	-13.00	42.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702	53.32	-43.01	30.29	-54.66	-13.00	41.66	Vertical
2	5553.27	35.35	-40.67	33.28	-67.30	-13.00	54.30	Vertical
3	7404.36	33.62	-37.88	36.49	-63.04	-13.00	50.04	Vertical
4	9255.45	30.41	-34.28	37.68	-61.45	-13.00	48.45	Vertical
5	11106.54	28.76	-30.26	38.40	-58.36	-13.00	45.36	Vertical
6	12957.63	29.81	-29.72	39.55	-55.62	-13.00	42.62	Vertical

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Test Band = LTE Band 2\_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.18	51.47	-42.96	30.42	-56.33	-13.00	43.33	Horizontal
2	5613.27	38.84	-40.69	33.49	-63.62	-13.00	50.62	Horizontal
3	7484.36	33.47	-37.80	36.58	-63.00	-13.00	50.00	Horizontal
4	9355.45	32.64	-33.93	37.71	-58.85	-13.00	45.85	Horizontal
5	11226.54	29.00	-30.19	38.40	-58.05	-13.00	45.05	Horizontal
6	13097.63	28.66	-29.42	39.67	-56.35	-13.00	43.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.18	52.22	-42.96	30.42	-55.58	-13.00	42.58	Vertical
2	5613.27	35.86	-40.69	33.49	-66.60	-13.00	53.60	Vertical
3	7484.36	33.51	-37.80	36.58	-62.96	-13.00	49.96	Vertical
4	9355.45	31.15	-33.93	37.71	-60.34	-13.00	47.34	Vertical
5	11226.54	28.66	-30.19	38.40	-58.39	-13.00	45.39	Vertical
6	13097.63	28.20	-29.42	39.67	-56.81	-13.00	43.81	Vertical

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**Test Band = LTE Band 2\_ TM1**  
**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.18	56.42	-42.92	30.56	-51.20	-13.00	38.20	Horizontal
2	5673.27	36.59	-40.55	33.69	-65.53	-13.00	52.53	Horizontal
3	7564.36	34.54	-37.74	36.66	-61.80	-13.00	48.80	Horizontal
4	9455.45	33.23	-33.82	37.74	-58.12	-13.00	45.12	Horizontal
5	11346.54	28.41	-30.19	38.40	-58.64	-13.00	45.64	Horizontal
6	13237.63	28.34	-29.40	39.77	-56.56	-13.00	43.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.18	55.04	-42.92	30.56	-52.58	-13.00	39.58	Vertical
2	5673.27	36.60	-40.55	33.69	-65.52	-13.00	52.52	Vertical
3	7564.36	36.49	-37.74	36.66	-59.85	-13.00	46.85	Vertical
4	9455.45	31.82	-33.82	37.74	-59.53	-13.00	46.53	Vertical
5	11346.54	28.65	-30.19	38.40	-58.40	-13.00	45.40	Vertical
6	13237.63	28.40	-29.40	39.77	-56.50	-13.00	43.50	Vertical



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**Test Band = LTE Band 4\_ TM1**

**Test Channel = Low Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5133	45.46	-41.12	33.17	-57.75	-13.00	44.75	Horizontal
2	8555.25	39.16	-35.35	37.38	-54.07	-13.00	41.07	Horizontal
3	3422.18	55.11	-43.26	29.58	-53.82	-13.00	40.82	Horizontal
4	6844.36	35.05	-38.40	35.94	-62.67	-13.00	49.67	Horizontal
5	10266.54	30.67	-32.16	38.03	-58.72	-13.00	45.72	Horizontal
6	11977.63	28.66	-29.65	38.40	-57.85	-13.00	44.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5133	39.64	-41.12	33.17	-63.57	-13.00	50.57	Vertical
2	3422.18	50.96	-43.26	29.58	-57.97	-13.00	44.97	Vertical
3	6844.36	34.55	-38.40	35.94	-63.17	-13.00	50.17	Vertical
4	8555.45	32.10	-35.34	37.38	-61.13	-13.00	48.13	Vertical
5	10266.54	30.37	-32.16	38.03	-59.02	-13.00	46.02	Vertical
6	11977.63	29.24	-29.65	38.40	-57.27	-13.00	44.27	Vertical

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**Test Band = LTE Band 4\_ TM1****Test Channel =Mid Channel**

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447	51.10	-43.20	29.59	-57.77	-13.00	44.77	Horizontal
2	5170.5	39.67	-40.95	33.17	-63.37	-13.00	50.37	Horizontal
3	6894.36	33.80	-38.34	35.96	-63.84	-13.00	50.84	Horizontal
4	8617.95	37.35	-35.21	37.41	-55.71	-13.00	42.71	Horizontal
5	10341.54	30.46	-31.90	38.07	-58.63	-13.00	45.63	Horizontal
6	12065.13	29.22	-29.38	38.48	-56.94	-13.00	43.94	Horizontal

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447	47.30	-43.20	29.59	-61.57	-13.00	48.57	Vertical
2	5170.77	37.28	-40.95	33.17	-65.76	-13.00	52.76	Vertical
3	6894.36	33.61	-38.34	35.96	-64.03	-13.00	51.03	Vertical
4	8617.95	31.90	-35.21	37.41	-61.16	-13.00	48.16	Vertical
5	10341.54	30.71	-31.90	38.07	-58.38	-13.00	45.38	Vertical
6	12065.13	28.98	-29.38	38.48	-57.18	-13.00	44.18	Vertical

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**Test Band = LTE Band 4\_ TM1****Test Channel = High Channel**

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	51.49	-43.14	29.59	-57.32	-13.00	44.32	Horizontal
2	5208.27	38.85	-40.82	33.16	-64.07	-13.00	51.07	Horizontal
3	6944.36	34.20	-38.35	35.98	-63.43	-13.00	50.43	Horizontal
4	8680.45	36.10	-35.38	37.44	-57.10	-13.00	44.10	Horizontal
5	10416.54	28.59	-31.40	38.11	-59.96	-13.00	46.96	Horizontal
6	12152.63	29.50	-29.50	38.58	-56.68	-13.00	43.68	Horizontal

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	45.70	-43.14	29.59	-63.11	-13.00	50.11	Vertical
2	5208.27	36.67	-40.82	33.16	-66.25	-13.00	53.25	Vertical
3	6944.36	34.06	-38.35	35.98	-63.57	-13.00	50.57	Vertical
4	8680.45	31.80	-35.38	37.44	-61.40	-13.00	48.40	Vertical
5	10416.54	28.83	-31.40	38.11	-59.72	-13.00	46.72	Vertical
6	12152.63	30.34	-29.50	38.58	-55.84	-13.00	42.84	Vertical

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Test Band = LTE Band 30 BW=10M\_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611.18	38.51	-41.60	32.35	-66.00	-40.00	26.00	Horizontal
2	6916.77	42.09	-38.34	35.97	-55.54	-40.00	15.54	Horizontal
3	9222.36	43.39	-34.37	37.67	-48.57	-40.00	8.57	Horizontal
4	11527.95	30.80	-29.93	38.40	-55.99	-40.00	15.99	Horizontal
5	13833.54	30.52	-29.31	40.18	-53.87	-40.00	13.87	Horizontal
6	16139.13	29.26	-27.16	38.30	-54.86	-40.00	14.86	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611.18	35.62	-41.60	32.35	-68.89	-40.00	28.89	Vertical
2	6916.77	37.95	-38.34	35.97	-59.68	-40.00	19.68	Vertical
3	9222.36	32.69	-34.37	37.67	-59.27	-40.00	19.27	Vertical
4	11527.95	28.40	-29.93	38.40	-58.39	-40.00	18.39	Vertical
5	13833.54	29.88	-29.31	40.18	-54.51	-40.00	14.51	Vertical
6	16139.13	28.16	-27.16	38.30	-55.96	-40.00	15.96	Vertical

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**Test Band = LTE Band 30 BW=5M\_ TM1**

**Test Channel = Low Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	37.33	-41.60	32.34	-67.19	-40.00	27.19	Horizontal
2	6916	40.59	-38.34	35.97	-57.04	-40.00	17.04	Horizontal
3	9221.36	40.91	-34.37	37.67	-51.06	-40.00	11.06	Horizontal
4	11526.7	28.84	-29.93	38.40	-57.95	-40.00	17.95	Horizontal
5	13832.04	30.32	-29.31	40.18	-54.07	-40.00	14.07	Horizontal
6	16137.38	28.90	-27.16	38.30	-55.22	-40.00	15.22	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	37.66	-41.60	32.34	-66.86	-40.00	26.86	Vertical
2	6916	39.47	-38.34	35.97	-58.16	-40.00	18.16	Vertical
3	9221.36	32.68	-34.37	37.67	-59.29	-40.00	19.29	Vertical
4	11526.7	27.88	-29.93	38.40	-58.91	-40.00	18.91	Vertical
5	13832.04	29.82	-29.31	40.18	-54.57	-40.00	14.57	Vertical
6	16137.38	28.21	-27.16	38.30	-55.91	-40.00	15.91	Vertical

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Test Band = LTE Band 30 BW=5M\_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	37.17	-41.59	32.35	-67.33	-40.00	27.33	Horizontal
2	6923.5	40.85	-38.34	35.97	-56.78	-40.00	16.78	Horizontal
3	9231.36	41.84	-34.34	37.67	-50.10	-40.00	10.10	Horizontal
4	11539.2	28.17	-29.90	38.40	-58.59	-40.00	18.59	Horizontal
5	13847.04	30.78	-29.29	40.19	-53.58	-40.00	13.58	Horizontal
6	16154.88	28.22	-27.14	38.31	-55.87	-40.00	15.87	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	36.47	-41.59	32.35	-68.03	-40.00	28.03	Vertical
2	6923.5	38.82	-38.34	35.97	-58.81	-40.00	18.81	Vertical
3	9231.36	35.39	-34.34	37.67	-56.55	-40.00	16.55	Vertical
4	11539.2	28.35	-29.90	38.40	-58.41	-40.00	18.41	Vertical
5	13847.04	30.74	-29.29	40.19	-53.62	-40.00	13.62	Vertical
6	16154.88	29.48	-27.14	38.31	-54.61	-40.00	14.61	Vertical

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Test Band = LTE Band 30 BW=5M\_ TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.5	37.23	-41.59	32.37	-67.25	-40.00	27.25	Horizontal
2	6931	42.73	-38.35	35.97	-54.90	-40.00	14.90	Horizontal
3	9241.32	43.53	-34.32	37.67	-48.38	-40.00	8.38	Horizontal
4	11551.7	28.91	-29.88	38.40	-57.83	-40.00	17.83	Horizontal
5	13862.04	29.85	-29.27	40.20	-54.47	-40.00	14.47	Horizontal
6	16172.38	28.93	-27.12	38.32	-55.13	-40.00	15.13	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.5	36.94	-41.59	32.37	-67.54	-40.00	27.54	Vertical
2	6931	40.46	-38.35	35.97	-57.17	-40.00	17.17	Vertical
3	9241.32	34.26	-34.32	37.67	-57.65	-40.00	17.65	Vertical
4	11551.7	28.06	-29.88	38.40	-58.68	-40.00	18.68	Vertical
5	13862.04	30.12	-29.27	40.20	-54.20	-40.00	14.20	Vertical
6	16172.38	29.11	-27.12	38.32	-54.95	-40.00	14.95	Vertical

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**Test Band = LTE Band 66\_ TM1**

**Test Channel = Low Channel**

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3492	49.83	-43.10	29.60	-58.93	-13.00	45.93	Horizontal
2	5238	35.73	-40.85	33.15	-67.23	-13.00	54.23	Horizontal
3	6808.36	31.25	-38.45	35.92	-66.54	-13.00	53.54	Horizontal
4	8510.45	29.64	-35.53	37.36	-63.80	-13.00	50.80	Horizontal
5	10212.54	28.99	-32.06	38.01	-60.33	-13.00	47.33	Horizontal
6	11914.63	27.67	-29.69	38.40	-58.88	-13.00	45.88	Horizontal

<b>Final Data List</b>								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3492	44.96	-43.10	29.60	-63.80	-13.00	50.80	Vertical
2	5106.27	30.80	-41.25	33.18	-72.53	-13.00	59.53	Vertical
3	6808.36	31.24	-38.45	35.92	-66.55	-13.00	53.55	Vertical
4	8510.45	30.11	-35.53	37.36	-63.33	-13.00	50.33	Vertical
5	10212.54	28.77	-32.06	38.01	-60.55	-13.00	47.55	Vertical
6	11914.63	27.85	-29.69	38.40	-58.70	-13.00	45.70	Vertical

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Test Band = LTE Band 66\_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3471.75	47.32	-43.14	29.59	-61.49	-13.00	48.49	Horizontal
2	5208	37.41	-40.82	33.16	-65.51	-13.00	52.51	Horizontal
3	6908.36	31.23	-38.33	35.96	-66.40	-13.00	53.40	Horizontal
4	8635.45	29.70	-35.26	37.42	-63.40	-13.00	50.40	Horizontal
5	10362.54	27.45	-31.74	38.08	-61.47	-13.00	48.47	Horizontal
6	12089.63	27.58	-29.29	38.51	-58.46	-13.00	45.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3471.75	44.35	-43.14	29.59	-64.46	-13.00	51.46	Vertical
2	5208	36.43	-40.82	33.16	-66.49	-13.00	53.49	Vertical
3	6908.36	31.12	-38.33	35.96	-66.51	-13.00	53.51	Vertical
4	8635.45	30.10	-35.26	37.42	-63.00	-13.00	50.00	Vertical
5	10362.54	27.77	-31.74	38.08	-61.15	-13.00	48.15	Vertical
6	12089.63	27.28	-29.29	38.51	-58.76	-13.00	45.76	Vertical

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**Test Band = LTE Band 66\_ TM1**

**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522	49.35	-43.01	29.67	-59.24	-13.00	46.24	Horizontal
2	5283	37.79	-40.89	33.14	-65.22	-13.00	52.22	Horizontal
3	7008.36	31.20	-38.36	36.01	-66.41	-13.00	53.41	Horizontal
4	8760.45	29.64	-35.11	37.48	-63.25	-13.00	50.25	Horizontal
5	10512.54	27.47	-31.19	38.16	-60.82	-13.00	47.82	Horizontal
6	12262.63	28.05	-29.89	38.72	-58.38	-13.00	45.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522	43.84	-43.01	29.67	-64.75	-13.00	51.75	Vertical
2	5256.27	32.26	-40.87	33.15	-70.72	-13.00	57.72	Vertical
3	7008.36	31.40	-38.36	36.01	-66.21	-13.00	53.21	Vertical
4	8760.45	29.84	-35.11	37.48	-63.05	-13.00	50.05	Vertical
5	10512.54	27.55	-31.19	38.16	-60.74	-13.00	47.74	Vertical
6	12262.63	27.73	-29.89	38.72	-58.70	-13.00	45.70	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Report---



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