

Report No.: SEWA2209000044RG01

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## **TEST REPORT**

Application No.: SEWA2209000044RG

**Applicant:** Gosuncn Technology Group Co., Ltd.

Address of Applicant: 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City,

Guangdong, China.

Manufacturer: Gosuncn Technology Group Co., Ltd.

Address of Manufacturer: 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City,

Guangdong, China.

**EUT Description:** Automatic Database Diagnostic Monitor (LTE OBD II Hotspot)

Model No.: GD506

Trade Mark: GOSUNCN

FCC ID: 2APNR-GD506 Standards: 47 CFR Part 2 47 CFR Part 22

47 CFR Part 24 47 CFR Part 27 47 CFR Part 90

**Date of Receipt:** 2022/09/20

**Date of Test:** 2022/09/20 to 2022/10/10

**Date of Issue:** 2022/12/12

Test Result : PASS \*

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

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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www.sgsgroup.com.cn sgs.china@sgs.com



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### Version

Revision Record				
Version Chapter Date Modifier Remark				
01		2022/12/12		Original

Prepared By	(Weller Liu) / Test Engineer
Checked By	(Well Wei) / Reviewer



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## 2 Test Summary

### 2.1 UMTS Band 5/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	Section 1 of Appendix B.1&B.4&B.9	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Reference report FG272912A & FG272912B	
Modulation Characteristics	§2.1047	Digital modulation	Reference re FG272912 FG272912	À &
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference report FG272912A & FG272912B	
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 re FG272912 FG272912	À &
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.	Reference report FG272912A & FG272912B	
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B.1&B.4&B.9	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	≤ ±2.5ppm.	Reference report FG272912A & FG272912B	

### Remark:

The Effective (Isotropic) Radiated Power Output Data and Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the test report FG272912A issued by Sporton International Inc. (ShenZhen) on 2022/08/26 and FG272912B issued by Sporton International Inc. (ShenZhen) on 2022/08/26.



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### 2.2 UMTS Band 2/LTE Band 2/25

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Section 1 of Appendix B.1&B.2&B.7	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Reference report FG272912A & FG272912B	
Modulation Characteristics	§2.1047	Digital modulation	Reference r FG272912 FG272913	À &
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference report FG272912A & FG272912B	
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference ro FG272912 FG272913	À &
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.	Reference report FG272912A & FG272912B	
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.1&B.2&B.7	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.	Reference report FG272912A & FG272912B	

#### Remark:

The Effective (Isotropic) Radiated Power Output Data and Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the test report FG272912A issued by Sporton International Inc. (ShenZhen) on 2022/08/26 and FG272912B issued by Sporton International Inc. (ShenZhen) on 2022/08/26.



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### 2.3 UMTS Band 4/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	Section 1 of Appendix B.1&B.3&B.10	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Reference report FG272912A & FG272912B	
Modulation Characteristics	§2.1047	Digital modulation	Reference r FG272912 FG272913	A &
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference report FG272912A & FG272912B	
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference ro FG272912 FG272913	A &
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.	Reference report FG272912A & FG272912B	
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.1&B.3&B.10	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report FG272912A & FG272912B	

#### Remark:

The Effective (Isotropic) Radiated Power Output Data and Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the test report FG272912A issued by Sporton International Inc. (ShenZhen) on 2022/08/26 and FG272912B issued by Sporton International Inc. (ShenZhen) on 2022/08/26.



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### 2.4 LTE Band 12

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP≤3W.	Section 1 of Appendix B.5	Pass
Peak-Average Ratio		Limit≤13 dB	Reference re FG272912	
Modulation Characteristics	§2.1047	Digital modulation	Reference re FG272912	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference re FG272912	
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 FG272912B	
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.	Reference report FG272912B	
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B.5	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report FG272912B	

### Remark:

The Effective (Isotropic) Radiated Power Output Data and Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the test report FG272912B issued by Sporton International Inc. (ShenZhen) on 2022/08/26.



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### 2.5 LTE Band 13

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤ 3 W.	Section 1 of Appendix B.6	Pass
Peak-Average Ratio		Limit≤13 dB	Reference report FG272912B	
Modulation Characteristics	§2.1047	Digital modulation	Reference re FG272912	2B
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Reference re FG272912	
Band Edges Compliance	§2.1051, §27.53(c)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference re FG27291	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	<ul> <li>≤ -13 dBm/100 kHz, from 9 kHz to 10<sup>th</sup> harmonics but outside authorized operating frequency ranges.</li> <li>On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.</li> <li>For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions 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.</li> </ul>	Reference ro FG27291:	
Field Strength of Spurious Radiation	§2.1053, §27.53(c) §27.53(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions 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.	Section 7 of Appendix B.6	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report FG272912B	

#### Remark:

The Effective (Isotropic) Radiated Power Output Data and Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the test report FG272912B issued by Sporton International Inc. (ShenZhen) on 2022/08/26.



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### 2.6 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.	Section 1 of Appendix B.8	Pass
Peak-Average Ratio		Limit≤13 dB	Reference report FW272912	
Modulation Characteristics	§2.1047	Digital modulation	Reference re FW27291	12
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference re FW27291	eport 12
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 Log10(f/6.1) decibels or 50+10Log10(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 FW272912	
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Reference report FW272912	
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Section 7 of Appendix B.8	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.	Reference report FW272912	

#### Remark:

The Effective (Isotropic) Radiated Power Output Data and Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the test report FW272912 issued by Sporton International Inc. (ShenZhen) on 2022/08/26.



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Remark for Sporton International Inc. (ShenZhen) test report issue on 2022/08/26:

#### 1. Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model:GM500-U1G, FCC ID: 2APNR-GM500U1G1) is electrically identical to the reference device (Model:GM500-U1G\_A, FCC ID:2APNR-GM500U1G) for the portions of the circuitry corresponding to the data being re-used.Based on their similarity, the FCC Part 22H, 24Efor WCDMA Band II/V(equipment class: PCB) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 v01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID:2APNR-GM500U1G1.

#### 2. Model Difference Information:

The **main** difference between FCC ID: 2APNR-GM500U1Gand FCC ID: 2APNR-GM500U1G1is as below: Add WCDMA Band IV and LTE Band 66.

Otherdifferences and all the details of similarity and difference can be found in the confidential documents (GM500-U1G\_Operational Description of Product Equality Declaration).

#### 3. Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID(Parent)	Reference Title	Report Title/Section
22, 24	PCB (WCDMA)	Band II/V	2APNR- GM500U1G	FG0D0333A	All sections applicable

we confirm that the test data reuse policy of FCC KDB 484596 D01 referencing test data v01 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Gosuncn Technology Group Co., Ltd.
Address of Applicant:	6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
Manufacturer:	Gosuncn Technology Group Co., Ltd.
Address of Manufacturer:	6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.

### 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:	Weller Liu, Tizzy Song

### 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

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

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:	Automatic Database Diagnostic Monitor (LTE OBD II Hotspot)					
Model No.:	GD506					
Trade Mark:	GOSUNCN					
Hardware Version:	GD506.H01					
Software Version:	MDM_GEN_GD506	SV1.1.1	B01			
IMEI:	RF Conducted	86124	10040116246			
IIVIEI:	RSE	86124	10040115974			
Antenna Type:	Internal Antenna					
	WCDMA Band II:	2.06dBi(Ant0)		WCDMA Bar	nd IV:	1.24dBi(Ant0)
	WCDMA Band V:	-3.49dBi(Ant0)				
	LTE Band 2:	2.06dBi(Ant0)		LTE Band 4:		1.24dBi(Ant0)
	LTE Band 5:	-3.49dBi(Ant0)		LTE Band 12	2:	-2.95dBi(Ant0)
Antenna Gain:	LTE Band 13:	-2.51	dBi(Ant0)	LTE Band 25	5:	2.06dBi(Ant0)
	LTE Band 26:	-2.61	dBi(Ant0)	LTE Band 66	S:	1.24dBi(Ant0)
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			provided by the		
DE Cable	0.8dB(Below 1GHz)	)	1.0dB(1.0~2	.4GHz)	1.2dE	3(2.4~3.4GHz)
RF Cable:	1.5dB(Above 3.4GHz)					

Remark:

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.



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### 3.5 Test Mode

Test Mode	Test Modes Description		
UMTS/TM1	UMTS system, WCDMA, QPSK modulation		
LTE/TM1	LTE system, QPSK modulation		
LTE/TM2 LTE system, 16QAM modulation			
Remark: The test mode(s) are selected according to relevant radio technology specifications.			

### 3.6 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value	Temperature(°C) Voltage(V)			
NTNV	22~23	12		

Remark:

NV: Normal Voltage NT: Normal Temperature

## 3.7 Description of Support Units

Description	Manufacturer	Model No.		
Mother board	Gosuncn Technology Group Co., Ltd.	VX6080		
Remark: all above the information of table are provided by client.				



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### 3.8 Technical Specification

Characteristics	Description						
Radio System Type		UMTS 🛮 LTE					
	Band		TX		RX	RX	
	UMTS Band II		1850 to 1910 MHz		1930 to	1930 to 1990 MHz	
	UMTS Band I\	/	1710 to 17	55 MHz	2110 to	2155 MHz	
	UMTS Band V	,	824 to 849	MHz	869 to 8	394 MHz	
	LTE Band 2		1850 to 19	10 MHz	1930 to	1990 MHz	
Supported Frequency Range	LTE Band 4		1710 to 17	55 MHz	2110 to	2155 MHz	
	LTE Band 5		824 to 849	MHz	869 to 8	394 MHz	
	LTE Band 12		699 to 716	MHz	729 to 7	'46 MHz	
	LTE Band 13		777 to 787	MHz	746 to 7	756 MHz	
	LTE Band 25		1850 to 19	15MHz	1930 to	1995 MHz	
	LTE Band 26 (814 ~ 824)		814 to 824	MHz	859 to 8	869 MHz	
	LTE Band 26 (824 ~ 849)		824 to 849	MHz	869 to 8	894 MHz	
	LTE Band 66		1710 to 17	80 MHz	2110 to	2200 MHz	
	UMTS system:		⊠5 MHz				
	LTE Band 2		⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
			⊠15 MHz	⊠20 MHz			
	LTE Band 4	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz		
	LIE Ballu 4		⊠15 MHz	⊠20 MHz			
	LTE Band 5		⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
	LTE Band 12		⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
	LTE Band 13		⊠5 MHz	⊠10 MHz			
Supported Channel Bandwidth	LTE Band 25		⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
	LTE Bana 20		⊠15 MHz	⊠20 MHz			
	LTE Band 26(	814-824)	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
	LTE Band 26(	824-849)	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
	LTL Dana 20(	024-049)	⊠15 MHz				
	LTE Band66		⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
	LIL Dandou		⊠15MHz	⊠20MHz			
	Note1: WCDM the worst case					-, but only	



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## 3.9 Test Frequencies

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

Test Mode	TX / RX	RF Channel				
I est Mode	12/102	Low (L)	Middle (M)	High (H)		
		Channel 1312	Channel 1413	Channel 1513		
WCDMA Band IV	TX	1712.4MHz	1732.6 MHz	1752.6 MHz		
WCDIVIA Ballu IV	RX	Channel 1537	Channel 1638	Channel 1738		
	ΓΛ	2112.4 MHz	2132.6 MHz	2152.6 MHz		

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



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rage. 17 01 37					
Test Mode	Mode Bandwidth TX / R>			RF Channel	
i est Mode	Dariuwiutii	IA/NA	Low (L)	Middle (M)	High (H)
			Channel 18607	Channel 18900	Channel 19193
		TX	1850.7 MHz	1880 MHz	1909.3 MHz
	1.4MHz	RX	Channel 607	Channel 900	Channel 1193
		KA.	1930.7 MHz	1960 MHz	1989.3 MHz
			Channel 18615	Channel 18900	Channel 19185
		TX	1851.5 MHz	1880 MHz	1908.5 MHz
	3MHz	DV	Channel 615	Channel 900	Channel 1185
		RX	1931.5 MHz	1960 MHz	1988.5 MHz
	5MHz		Channel 18625	Channel 18900	Channel 19175
		TX	1852.5 MHz	1880 MHz	1907.5 MHz
		RX	Channel 625	Channel 900	Channel1175
LTC Dand O			1932.5 MHz	1960 MHz	1987.5 MHz
LTE Band 2	10MHz TX	TX	Channel 18650	Channel 18900	Channel 19150
			1855 MHz	1880 MHz	1905 MHz
		DV	Channel 650	Channel 900	Channel 1150
		KA.	1935 MHz	1960 MHz	1985 MHz
			Channel 18675	Channel 18900	Channel 19125
		TX	1857.5 MHz	1880 MHz	1902.5 MHz
	15MHz	RX	Channel 675	Channel 900	Channel 1125
_		KΛ	1937.5 MHz	1960 MHz	1982.5 MHz
			Channel 18700	Channel 18900	Channel 19100
		TX	1860 MHz	1880 MHz	1900 MHz
	20MHz	DV	Channel 700	Channel 900	Channel 1100
		RX	1940 MHz	1960 MHz	1980 MHz



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			ı aye.	10 01 37	
Test Mode	Bandwidth	TX / RX		RF Channel	
rest Mode	loue banuwiuin	IA/ NA	Low (L)	Middle (M)	High (H)
			Channel 19957	Channel 20175	Channel 20393
		TX	1710.7 MHz	1732.5 MHz	1754.3 MHz
	1.4MHz	RX	Channel 1975	Channel 2175	Channel 2375
		KA	2112.5 MHz	2132.5MHz	2152.5 MHz
			Channel 19965	Channel 20175	Channel 20385
		TX	1711.5 MHz	1732.5 MHz	1753.5 MHz
	3MHz	RX	Channel 2000	Channel 2175	Channel 2350
		KA	2115 MHz	2132.5MHz	2150 MHz
			Channel 19975	Channel 20175	Channel 20375
		TX	1712.5 MHz	1732.5 MHz	1752.5 MHz
	5MHz	RX	Channel 1975	Channel 2175	Channel 2375
LTC David 4			2112.5 MHz	2132.5MHz	2152.5 MHz
LTE Band 4		TX	Channel 20000	Channel 20175	Channel 20350
			1715 MHz	1732.5 MHz	1750 MHz
	10MHz	RX	Channel 2000	Channel 2175	Channel 2350
			2115 MHz	2132.5MHz	2150 MHz
			Channel 20025	Channel 20175	Channel 20325
		TX	1717.5 MHz	1732.5 MHz	1747.5 MHz
	15MHz	RX	Channel 2025	Channel 2175	Channel 2325
		I IVX	2117.5 MHz	2132.5MHz	2147.5 MHz
			Channel 20050	Channel 20175	Channel 20300
		TX	1720 MHz	1732.5 MHz	1745 MHz
	20MHz	DV	Channel 2050	Channel 2175	Channel 2300
		RX	2120 MHz	2132.5MHz	2145 MHz

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



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Test Mode	Bandwidth	TX / RX	-y / Py RF Channel		
rest Mode	Dariuwiuiri	IA/KA	Low (L)	Middle (M)	High (H)
			Channel 23017	Channel 23095	Channel 23173
		TX	699.7 MHz	707.5 MHz	715.3 MHz
	1.4MHz	RX	Channel 5017	Channel 5095	Channel 5173
		IX	729.7 MHz	737.5 MHz	745.3 MHz
			Channel 23025	Channel 23095	Channel 23165
	3MHz	TX	700.5 MHz	707.5 MHz	714.5 MHz
		RX	Channel 5025	Channel 5095	Channel 5165
LTE David 40			730.5 MHz	737.5 MHz	744.5 MHz
LTE Band 12		TX	Channel 23035	Channel 23095	Channel 23155
			701.5 MHz	707.5 MHz	713.5 MHz
	5MHz		Channel 5035	Channel 5095	Channel 5155
		RX	731.5 MHz	737.5 MHz	743.5 MHz
			Channel 23060	Channel 23095	Channel 23130
		TX	704 MHz	707.5 MHz	711 MHz
	10MHz	RX	Channel 5060	Channel 5095	Channel 5130
		IXX	734 MHz	737.5 MHz	741 MHz

Test Mode	Bandwidth	RF Channel			
rest wode	Dariuwiutii	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 23025	Channel 23230	Channel 23255
		TX	779.5 MHz	782 MHz	784.5 MHz
	5MHz	RX	Channel 5205	Channel 5230	Channel 5255
LTE Band 13			748.5 MHz	751 MHz	753.5 MHz
LIE Dallu 13		TX	Channel 23230	Channel 23230	Channel 23230
	10MHz		782 MHz	782 MHz	782 MHz
		DV	Channel 5230	Channel 5230	Channel 5230
		RX	751 MHz	751 MHz	751 MHz



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 215000
 t (86-512) 62992980

 中国 - 苏州 - 中国 (江苏) 自由贸易试验区苏州片区苏州工业园区测胜路1号的6号厂房南部
 邮编: 215000
 t (86-512) 62992980

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			raye.	20 01 37		
Test Mode	Bandwidth	TX / RX		RF Channel		
i est ivioue	Dandwidth	IX/IX	Low (L)	Middle (M)	High (H)	
			Channel 26047	Channel 26365	Channel 26683	
		TX	1850.7 MHz	1882.5 MHz	1914.3 MHz	
	1.4MHz	RX	Channel 8047	Channel 8365	Channel 8683	
		KA	1930.7 MHz	1962.5 MHz	1994.3 MHz	
			Channel 26055	Channel 26365	Channel 26675	
		TX	1851.5 MHz	1882.5 MHz	1913.5 MHz	
	3MHz	DV	Channel 8055	Channel 8365	Channel 8675	
		RX	1931.5 MHz	1962.5 MHz	1993.5 MHz	
			Channel 26065	Channel 26365	Channel 26665	
		TX	1852.5 MHz	1882.5 MHz	1912.5 MHz	
	5MHz	DV	Channel 8065	Channel 8365	Channel 8665	
LTE Daniel OF		RX	1932.5 MHz	1962.5 MHz	1992.5 MHz	
LTE Band 25		TX	Channel 26090	Channel 26365	Channel 26640	
			1855 MHz	1882.5 MHz	1910 MHz	
	10MHz	RX	Channel 8090	Channel 8365	Channel 8640	
			1935 MHz	1962.5 MHz	1990 MHz	
			Channel 26115	Channel 26365	Channel 26615	
		TX	1857.5 MHz	1882.5 MHz	1907.5 MHz	
	15MHz	RX	Channel 8115	Channel 8365	Channel 8615	
		100	1937.5 MHz	1962.5 MHz	1987.5 MHz	
			Channel 26140	Channel 26365	Channel 26590	
		TX	1860 MHz	1882.5 MHz	1905 MHz	
	20MHz	RX	Channel 8140	Channel 8365	Channel 8590	
		ΚΛ	1940 MHz	1962.5 MHz	1985 MHz	



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			i agc.	210101	
Test Mode	Randwidth	TX / RX	RF Channel		
i est Mode	Bandwidth	IA/NA	Low (L)	Middle (M)	High (H)
			Channel 26697	Channel 26740	Channel 26783
		TX	814.7 MHz	819 MHz	823.3 MHz
	1.4MHz	RX	Channel 8697	Channel 8740	Channel 8783
		KA.	859.7 MHz	864MHz	868.3 MHz
			Channel 26705	Channel 26740	Channel 26775
	3MHz	TX	815.5 MHz	819 MHz	822.5 MHz
		RX	Channel 8705	Channel 8740	Channel 8775
LTE Band 26			860.5 MHz	864MHz	867.5 MHz
(814-824)	5MHz	TX	Channel 26715	Channel 26740	Channel 26765
(011.021)			816.5 MHz	819 MHz	821.5 MHz
		RX	Channel 8715	Channel 8740	Channel 8755
		KA.	861.5 MHz	864MHz	866.5 MHz
			Channel 26740	Channel 26740	Channel 26740
		TX	819 MHz	819 MHz	819 MHz
	10MHz	RX	Channel 8740	Channel 8740	Channel 8740
		INA	864MHz	864MHz	864MHz

T (14 )	5 1 1 1 1 1 1 1	TV / DV	RF Channel		
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 26797	Channel 26915	Channel 27033
		TX	824.7 MHz	836.5 MHz	848.3 MHz
	1.4MHz	RX	Channel 8697	Channel 8915	Channel 9033
		IXX	859.7 MHz	881.5 MHz	893.3 MHz
			Channel 26805	Channel 26915	Channel 27025
		TX	825.5 MHz	836.5 MHz	847.5 MHz
	3MHz	RX	Channel 8805	Channel 8915	Channel 9025
		TVX	860.5 MHz	881.5 MHz	892.5 MHz
	5MHz	TX RX	Channel 26815	Channel 26915	Channel 27015
LTE Band26			826.5 MHz	836.5 MHz	846.5 MHz
(824-849)			Channel 8815	Channel 8915	Channel 9015
( /			871.5 MHz	881.5 MHz	891.5 MHz
		TX	Channel 26840	Channel 26915	Channel 26990
			829 MHz	836.5 MHz	844 MHz
	10MHz	RX	Channel 8840	Channel 8915	Channel 8990
		IXX	874 MHz	881.5 MHz	889 MHz
			Channel 26865	Channel 26915	Channel 26965
		TX	831.5 MHz	836.5 MHz	841.5 MHz
	15MHz	RX	Channel 8865	Channel 8915	Channel 8965
		100	876.5 MHz	881.5 MHz	886.5 MHz



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Test Mode	Bandwidth	TX / RX		RF Channel	
i est ivioue	Dandwidth	IX/IX	Low (L)	Middle (M)	High (H)
			Channel 131979	Channel 132322	Channel 132665
		TX	1710.7 MHz	1745 MHz	1779.3 MHz
	1.4MHz	RX	Channel 66443	Channel 66786	Channel 67329
		KA	2110.7 MHz	2145MHz	2199.3 MHz
			Channel 131987	Channel 132322	Channel 132657
		TX	1711.5 MHz	1745 MHz	1778.5MHz
	3MHz	DV	Channel 66451	Channel 66786	Channel 67321
		RX	2111.5 MHz	2145MHz	2198.5MHz
			Channel 131997	Channel 132322	Channel 132647
	<b>5.4.</b> .	TX	1712.5 MHz	1745 MHz	1777.5 MHz
	5MHz	DV	Channel 66461	Channel 66786	Channel 67311
LTE Davidoo		RX	2112.5 MHz	2145MHz	2197.5 MHz
LTE Band66			Channel 132022	Channel 132322	Channel 132622
		TX	1715 MHz	1745 MHz	1775 MHz
	10MHz	RX	Channel 66486	Channel 66786	Channel 67286
			2115 MHz	2145MHz	2195 MHz
			Channel 132047	Channel 132322	Channel 132597
		TX	1717.5 MHz	1745 MHz	1772.5 MHz
	15MHz	RX	Channel 66511	Channel 66786	Channel 67261
		100	2117.5 MHz	2145MHz	2192.5 MHz
			Channel 132072	Channel 132322	Channel 132572
		TX	1720 MHz	1745 MHz	1770 MHz
	20MHz	DV	Channel 66536	Channel 66786	Channel 67236
		RX	2120 MHz	2145MHz	2190 MHz



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 215000
 t (86-512) 62992980
 www.sgsgroup.com.cn

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 邮编:
 215000
 t (86-512) 62992980
 sgs.china@sgs.com



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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 (dBi)

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

EIRP=ERP+2.15Db



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### 4.3 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

- 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 ≥ 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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### 4.4 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 > 1% of the emission bandwidth
- VBW ≥ 3 x RBW
- 5. Detector = RMS
- Number of sweep points ≥ 2 x Span/RBW
- 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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### 4.5 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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### 4.6 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
- 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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### 4.7 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 (dB $\mu$ V/m) = Measured amplitude level (dB $\mu$ V) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB $\mu$ V/m) + 20 log D – 104.8; where D is the measurement distance in meters

#### Above 1GHz test procedure as below:

- 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 (dB $\mu$ V/m) = Measured amplitude level (dB $\mu$ V) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB $\mu$ V/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\*LOG(3/1) = 9.54 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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t (86–512) 62992980 t (86–512) 62992980

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### 4.8 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 ±0.00025% (±2.5 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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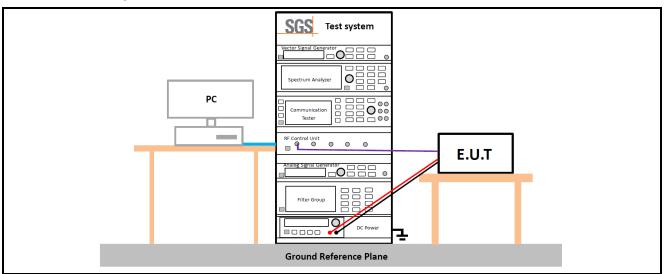


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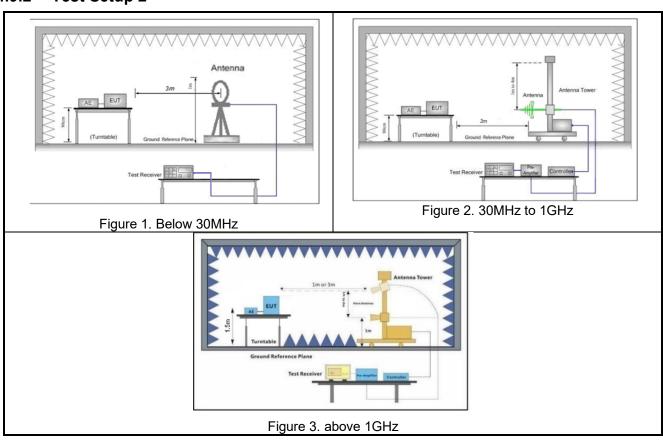
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### 4.9 Test Setups

### 4.9.1 Test Setup 1



### 4.9.2 Test Setup 2





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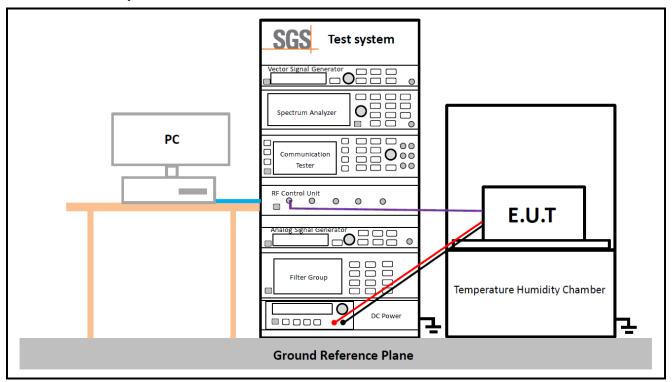
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### 4.9.3 Test Setup 3





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### **4.10Test Conditions**

	Transmit Output Power Data - Average Power, Total				
Test Case	Test Conditions				
Test Environment	Ambient Climate & Rated Voltage				
Test Setup	Test Setup 1				
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)				
Test Mode	UMTS/TM1;LTE/TM1;LTE/TM2				
	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	UMTS/TM1;LTE/TM1 Remark: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.				



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#### **Main Test Instruments** 5

RF conducted test						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15	
Signal Analyzer	ROHDE&SCHW ARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16	
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR	
Radio Communication Analyzer	Anritsu	MT8821C	SUWI-01-26-03	2021/12/04	2022/12/03	
Wideband Radio Communication Tester	ROHDE&SCHW ARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14	
Signal Analyzer	ROHDE&SCHW ARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	



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		RSE Test Sy	/stem		
Test 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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/02/14	2023/02/13
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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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	Total RF power, conducted	±0.54dB
		± 3.13dB (9k -30MHz)
2	Radiated Emission	± 4.80dB (30M -1GHz)
2	Radiated Effission	± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

#### Remark:

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr/ETSI</sub> (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 Appendixes

Appendix A.3	WWAN Setup Photos
Appendix B.1	WCDMA Band II & IV & V
Appendix B.2	LTE Band 2
Appendix B.3	LTE Band 4
Appendix B.4	LTE Band 5
Appendix B.5	LTE Band 12
Appendix B.6	LTE Band 13
Appendix B.7	LTE Band 25
Appendix B.8	LTE Band26(814-824)
Appendix B.9	LTE Band26(824-849)
Appendix B.10	LTE Band 66

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