

Report No.: SEWM2209000168RG01

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TEST REPORT

Application No.: SEWM2209000168RG

Applicant: Xiaomi Communications Co., Ltd.

Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing,

China, 100085

Manufacturer: Xiaomi Communications Co., Ltd.

Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing,

China, 100085

EUT Description: Mobile Phone **Model No.:** 22101320G

Trade Mark: POCO

FCC ID: 2AFZZ1320G Standards: 47 CFR Part 2 47 CFR Part 22

47 CFR Part 24 47 CFR Part 27

Date of Receipt: 2022/09/29

Date of Test: 2022/10/01 to 2022/10/25

Date of Issue: 2022/10/26

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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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2022/10/26		Original

Prepared By	weller lin
	(Weller Liu) / Test Engineer
Checked By	well wei'
	(Well Wei) / Reviewer



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2 Test Summary

2.1 GSM850/UMTS Band 5/LTE 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	Section 1 of Appendix B.1&2&5	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Section 2 of Appendix B.1&2&5	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.1&2&5	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.1&2&5	Pass
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.1&2&5	Pass
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.	Section 6 of Appendix B.1&2&5	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B.1&2&5	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §22.355	≤ ±2.5ppm.	Section 8 of Appendix B.1&2&5	Pass



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2.2 GSM 1900/UMTS Band 2 /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	Section 1 of Appendix B.1&2&3	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 2 of Appendix B.1&2&3	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.1&2&3	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.1&2&3	Pass
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.1&2&3	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B.1&2&3	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.1&2&3	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §24.235	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.1&2&3	Pass



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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.2&4&9	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 2 of Appendix B.2&4&9	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.2&4&9	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.2&4&9	Pass
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.2&4&9	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B.2&4&9	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.2&4&9	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.2&4&9	Pass



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2.4 LTE Band 7/38/41/CA_7C/ CA_38C

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Section 1 of Appendix B.6&7&8&10&11	Pass
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B.6&7&8&10&11	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.6&7&8&10&11	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.6&7&8&10&11	Pass
Band Edges Compliance	§2.1051, §27.53(m4)	For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as de ned in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.	Section 5 of Appendix B.6&7&8&10&11	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1	Section 6 of Appendix B.6&7&8&10&11	Pass



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Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10 th harmonics X=Max {6MHz, EBW}	Section 7 of Appendix B.6&7&8&10&11	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.6&7&8&10&11	Pass



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3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

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, 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

 ${\tt SGS-CSTC\ STANDARDS\ TECHNICAL\ SERVICES\ (SUZHOU)\ CO.,\ LTD.\ has\ been\ recognized\ as\ an}$

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Mobile Phone						
Model No.:	22101320G						
Trade Mark:	POCO						
Hardware Version:	P2						
Software Version:	MIUI 14						
IMEI:	RF Conducted	869168060045056					
TIVILI.	RSE	869168060034183 869168060034191					
Antenna Type:	PIFA Antenna						
	GSM850: -9.67dBi(ANT0); -6.8dBi(ANT1);						
	GSM1900: -3.29dBi(ANT	0); -5.0dBi(ANT2);					
	WCDMA Band II: -3.29dl	WCDMA Band II: -3.29dBi(ANT0); -5.0dBi(ANT2);					
	WCDMA Band IV:-1.73dBi(ANT0); -5.2dBi(ANT2);						
	WCDMA Band V:-9.67dBi(ANT0); -6.8dBi(ANT1);						
	LTE Band 2:-3.29dBi(ANT0); -2.5dBi(ANT1); -5.0dBi(ANT2); -3.3dBi(ANT3);						
	LTE Band 4:-1.73dBi(AN	T0); -3.4dBi(ANT1); -5.2dE	Bi(ANT2); -1.59dBi(ANT3);				
	LTE Band 5: -9.67dBi(AN	IT0); -6.8dBi(ANT1);					
Antenna Gain:	LTE Band 7:0.65dBi(AN	T0); -2.4dBi(ANT1); -4.9dBi	i(ANT2); -3.75dBi(ANT3);				
	LTE Band 38: 0.2dBi(AN	T0); -2.4dBi(ANT1); -3.0dE	Bi(ANT2); -3.02dBi(ANT3);				
	LTE Band 41: 0.65dBi(Al	NT0); -2.4dBi(ANT1); -3.7d	Bi(ANT2); -6.71dBi(ANT3);				
	LTE Band 66: -1.73dBi(A	NT0); -2.3dBi(ANT1); -5.0	dBi(ANT2); -1.59dBi(ANT3);				
	LTE CA_7C:0.65dBi(AN	Γ0); -2.4dBi(ANT1); -4.9dB	i(ANT2); -3.75dBi(ANT3);				
	LTE CA_38C: 0.2dBi(AN	T0); -2.4dBi(ANT1); -3.0dE	Bi(ANT2); -3.02dBi(ANT3);				
Note: The antenna gain are derived from the gain information report provided manufacturer.							
DE Oakla	0.5dB(Below 1GHz)	0.8dB(1~2.4GHz)	1.0dB(2.4~3.4GHz)				
RF Cable: 1.5dB(Above 3.4GHz)							

Remark:

- 1. Conduction Power & EIRP of all antennas are tested, and only the worst data is presented.
- 2.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				
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	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	6 % RH Ambient		
Value	Voltage(V)			
NTNV	22~23	3.87		
LTLV	-30	3.6		
LTHV	-30	4.45		
HTLV	50	3.6		
HTHV	50	4.45		
_	v Extreme Test Voltage v Extreme Test Temperature	HV: High Extreme Test Voltage HT: High Extreme Test Temperature		

3.7 Description of Support Units

The EUT has been tested as an independent unit.



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3.8 Technical Specification

Characteristics	Description									
Radio System Type	⊠ GSM	⊠ ι	JMTS		□ LTE	Ξ				
	Band	ı		TX	(RX		
	GSM850			82	4 to 849	MHz		869 to	894 MHz	
	GSM1900		18	50 to 19	10 MHz		1930 to	1990 MHz		
	UMTS Band II			18	50 to 19	10 MHz		1930 to	1990 MHz	
	UMTS Band IN	/		17	10 to 17	55 MHz		2110 to	2155 MHz	
	UMTS Band V			82	4 to 849	MHz		869 to	894 MHz	
	LTE Band 2			18	50 to 19	10 MHz		1930 to	1990 MHz	
Supported Frequency Range	LTE Band 4			17	10 to 17	55 MHz		2110 to	2155 MHz	
	LTE Band 5			82	4 to 849	MHz		869 to	894 MHz	
	LTE Band 7			25	00 to 25	70 MHz		2620 to	2690 MHz	
	LTE Band 38			25	70 to 26	20 MHz		2570 to	2620 MHz	
	LTE Band 41			24	96 to 26	90MHz		2496 to	2496 to 2690MHz	
	LTE Band 66		1710 to 1770 MHz		2110 to	2110 to 2170 MHz				
	LTE CA_7C		2500 to 2570 MHz		2620 to	2690 MHz				
	LTE CA_38C			2570 to 2620 MHz		2570 to	2620 MHz			
	GSM system:		⊠0.2 MHz							
	UMTS system			⊠5 MHz						
	LTE Band 2			\boxtimes 1	I.4 MHz	⊠3 M	Hz	⊠5 MHz	⊠10 MHz	
	LIL Dand Z			\boxtimes 1	15 MHz	⊠20 N	ИHz			
	LTE Band 4			\boxtimes 1	I.4 MHz	⊠3 M	Hz	⊠5 MHz	⊠10 MHz	
	LIL Dana +			\boxtimes 1	15 MHz	⊠20 N	ЛHz			
	LTE Band 5			\boxtimes 1	I.4 MHz	⊠3 M	Hz	⊠5 MHz	⊠10 MHz	
Supported Channel Bandwidth	LTE Band 7			$\boxtimes 5$	5 MHz	⊠10 N	ЛHz	⊠15 MHz	z ⊠20 MHz	
	LTE Band38			$\boxtimes 5$	5 MHz	⊠10 N	ЛHz	⊠15 MHz	z ⊠20 MHz	
	LTE Band41			$\boxtimes 5$	5 MHz	⊠10 N	ЛHz	⊠15 MHz	z ⊠20 MHz	
	LTE Band66			\boxtimes 1	I.4 MHz	⊠3 M	Hz	⊠5 MHz	⊠10 MHz	
	LI L DUIIGOO			\boxtimes	15MHz	⊠20N	ИHz			
				\boxtimes	10MHz+	15MHz		⊠10MH	z+20MHz	
	LTE Band CA_	_7C		\boxtimes	15MHz+	-15MHz		⊠15MH:	z+20MHz	
				\boxtimes	20MHz+	-20MHz		⊠15MH:	z+10MHz	



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Note: WCDMA supports HSUPA, HSDPA, DC-HSDPA, but only the worst case was tested and the data displayed in this report. Characteristics								
Characteristics		LTE Band CA_38C		⊠15M⊦	Hz+15MHz	⊠20MHz	+20MHz	
GSM: GMSK 8PSK		, ,			-	the worst		
GSM850	Characteristics	Description						
GSM1900		GSM:	GMS	SK	8PSK			
UMTS:		GSM850	246K	GXW	252KG7W			
Band II		GSM1900	246K	GXW	246KG7W			
Band IV		UMTS:	QPS	K				
Band V 4M14F9W		Band II	4M17	7F9W				
E-UTRA:		Band IV	4M15	5F9W				
LTE Band 2 LTE Band 3 LTE Band 4 LTE Band 4 LTE Band 4 LTE Band 4 LTE Band 5 LTE Band 5 LTE Band 5 LTE Band 5 LTE Band 7 LTM SW7D		Band V	4M14	4F9W				
LTE Band 2 ETE Band 3 ETE Band 4 ETE Band 4 ETE Band 5 ETE Band 5 ETE Band 5 ETE Band 5 ETE Band 6 ETE Band 7 ETE Band 7 ETE Band 7 ETE Band 7 ETM		E-UTRA:	QPS	K	16QAM	64QAM	256QAM	
LTE Band 2 LTE Band 2 AM47G7D			1M10	0G7D	1M10W7D	1M13W7D	1M09W7D	
Designation of Emissions (Remark: the necessary bandwidth of which is the worst value from the measured occupied bandwidths for each type of channel bandwidth configuration.) 17			2M70	0G7D	2M69W7D	2M69W7D	2M69W7D	
Designation of Emissions (Remark: the necessary bandwidth of which is the worst value from the measured occupied bandwidths for each type of channel bandwidth configuration.) 17		LTE Band 2	4M47	7G7D	4M47W7D	4M47W7D	4M48W7D	
17M9G7D			8M9	5G7D	8M95W7D	8M94W7D	8M94W7D	
bandwidth of which is the worst value from the measured occupied bandwidths for each type of channel bandwidth configuration.) LTE Band 4 17M9G7D 17M9W7D 17M9W7D 17M9W7D 1M09W7D 1M09W7D 2M69W7D 2M70W7D 2M69W7D 3M5G7D 3M5W7D 3M5W7D 3M5W7D 13M5W7D 13M5W7D 13M5W7D 17M9W7D 17M9W7D 17M9W7D 17M9W7D 17M9W7D 17M9W7D 2M70W7D 2M70W7D	_		13M	5G7D	13M5W7D	13M5W7D	13M4W7D	
measured occupied bandwidths for each type of channel bandwidth configuration.) 2M70G7D 2M69W7D 2M70W7D 2M69W7D LTE Band 4 2M70G7D 2M69W7D 2M69W7D 2M69W7D 2M69W7D 2M69W7D 4M48W7D 4M48W7D 4M48W7D 4M99W7D 13M5W7D 13M5W7D 13M5W7D 17M9W7D 17M9W7D <td colsp<="" td=""><td></td><td></td><td>17M9</td><td>9G7D</td><td>17M9W7D</td><td>17M9W7D</td><td>17M9W7D</td></td>	<td></td> <td></td> <td>17M9</td> <td>9G7D</td> <td>17M9W7D</td> <td>17M9W7D</td> <td>17M9W7D</td>			17M9	9G7D	17M9W7D	17M9W7D	17M9W7D
bandwidths for each type of channel bandwidth configuration.) LTE Band 4 LTE Band 5 LTE Band 5 LTE Band 5 LTE Band 5 LTE Band 7 LTE Band 8 LTE Band 9 LTE			1M09	9G7D	1M09W7D	1M12W7D	1M09W7D	
Configuration.) LTE Band 4 BM95G7D 8M93W7D 8M96W7D 8M95W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 17M9G7D 17M9W7D 17M9W7D 17M9W7D 1M10G7D 1M09W7D 1M10W7D 1M09W7D 2M70G7D 2M70W7D 2M70W7D 2M70W7D 4M47G7D 4M47W7D 4M48W7D 4M48W7D 8M94G7D 8M93W7D 8M94W7D 8M93W7D 4M47G7D 4M47W7D 4M48W7D 4M48W7D 8M94G7D 8M94W7D 8M95W7D 8M94W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5G7D 13M5W7D 17M9W7D 17M9W7D	bandwidths for each type of		2M70	0G7D	2M69W7D	2M70W7D	2M69W7D	
8M95G7D		LTE Bond 4	4M48	8G7D	4M47W7D	4M48W7D	4M48W7D	
17M9G7D 17M9W7D 17M9W7D 17M9W7D 1M10G7D 1M09W7D 1M10W7D 1M09W7D 2M70G7D 2M70W7D 2M70W7D 2M70W7D 4M47G7D 4M47W7D 4M48W7D 4M48W7D 8M94G7D 8M93W7D 8M94W7D 8M93W7D 4M47G7D 4M47W7D 4M48W7D 4M48W7D 4M47G7D 4M47W7D 4M48W7D 4M48W7D 8M94G7D 8M94W7D 8M95W7D 8M94W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 17M9G7D 17M9W7D 17M9W7D 17M9W7D	coringaration.)	LIL Ballu 4	8M9	5G7D	8M93W7D	8M96W7D	8M95W7D	
LTE Band 5 1M10G7D			13M	5G7D	13M5W7D	13M5W7D	13M5W7D	
LTE Band 5 2M70G7D 2M70W7D 2M70W7D 2M70W7D 4M47G7D 4M47W7D 4M48W7D 4M48W7D 8M94G7D 8M93W7D 8M94W7D 8M93W7D 4M47G7D 4M47W7D 4M48W7D 4M48W7D 8M94G7D 8M94W7D 8M95W7D 8M94W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 17M9G7D 17M9W7D 17M9W7D 17M9W7D			17M9	9G7D	17M9W7D	17M9W7D	17M9W7D	
LTE Band 5 4M47G7D 4M47W7D 4M48W7D 4M48W7D 8M94G7D 8M93W7D 8M94W7D 8M93W7D 4M47G7D 4M47W7D 4M48W7D 4M48W7D 4M47G7D 4M47W7D 4M48W7D 4M48W7D 8M94G7D 8M94W7D 8M95W7D 8M94W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 17M9G7D 17M9W7D 17M9W7D 17M9W7D			1M10	0G7D	1M09W7D	1M10W7D	1M09W7D	
4M47G7D 4M47W7D 4M48W7D 4M48W7D 8M94G7D 8M93W7D 8M94W7D 8M93W7D 4M47G7D 4M47W7D 4M48W7D 4M48W7D 8M94G7D 8M94W7D 8M95W7D 8M94W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 17M9G7D 17M9W7D 17M9W7D 17M9W7D		LTE Pand 5	2M70	0G7D	2M70W7D	2M70W7D	2M70W7D	
LTE Band 7 4M47G7D 4M47W7D 4M48W7D 4M48W7D 8M94G7D 8M94W7D 8M95W7D 8M94W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 17M9G7D 17M9W7D 17M9W7D 17M9W7D		LIE Ballu 5	4M47	7G7D	4M47W7D	4M48W7D	4M48W7D	
LTE Band 7 8M94G7D 8M94W7D 8M95W7D 8M94W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5W7D 17M9G7D 17M9W7D 17M9W7D 17M9W7D			8M94	4G7D	8M93W7D	8M94W7D	8M93W7D	
LTE Band 7 13M5G7D 13M5W7D 13M5W7D 13M5W7D 17M9G7D 17M9W7D 17M9W7D 17M9W7D			4M47	7G7D	4M47W7D	4M48W7D	4M48W7D	
13M5G7D 13M5W7D 13M5W7D 13M5W7D 17M9W7D 17M9W7D 17M9W7D		LTE Pand 7	8M94	4G7D	8M94W7D	8M95W7D	8M94W7D	
		LIE Daliu /	13M	5G7D	13M5W7D	13M5W7D	13M5W7D	
LTE Band 38 4M47G7D 4M48W7D 4M48W7D 4M48W7D			17M9	9G7D	17M9W7D	17M9W7D	17M9W7D	
		LTE Band 38	4M47	7G7D	4M48W7D	4M48W7D	4M48W7D	



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			490. I		
		8M95G7D	8M94W7D	8M96W7D	8M94W7D
		13M5G7D	13M5W7D	13M5W7D	13M5W7D
		17M9G7D	17M9W7D	17M9W7D	17M9W7D
		4M47G7D	4M48W7D	4M48W7D	4M47W7D
	LTE Dand 41	8M93G7D	8M94W7D	8M94W7D	8M93W7D
	LTE Band 41	13M5G7D	13M5W7D	13M5W7D	13M5W7D
		17M9G7D	17M9W7D	17M9W7D	17M9W7D
		1M09G7D	1M09W7D	1M12W7D	1M09W7D
		2M70G7D	2M70W7D	2M69W7D	2M69W7D
	LTE David CC	4M47G7D	4M47W7D	4M48W7D	4M47W7D
	LTE Band 66	8M96G7D	8M94W7D	8M95W7D	8M94W7D
		13M5G7D	13M5W7D	13M5W7D	13M5W7D
		17M9G7D	17M9W7D	17M9W7D	17M9W7D
		50RB+100F	RB:		
		27M7G7D	27M7W7D	27M6W7D	27M6W7D
		75RB+50RB:			
		23M2G7D	23M1W7D	23M1W7D	23M1W7D
		75RB+75RE	3:		
		28M3G7D	28M3W7D	28M3W7D	28M3W7D
	LTE Dand CA 7C	75RB+100F	RB:		
	LTE Band CA_7C	32M6G7D	32M6W7D	32M5W7D	32M6W7D
		100RB+50F	RB:		
		27M8G7D	27M8W7D	27M7W7D	27M7W7D
		100RB+75F	RB:		
		32M6G7D	32M6W7D	32M5W7D	32M6W7D
		100RB+100	RB:		
		37M7G7D	37M7W7D	37M7W7D	37M7W7D
		75RB+75RE	3:		
	LTE Band CA_38C	28M4G7D	28M4W7D	28M3W7D	28M3W7D
		100RB+100	RB:		
		37M8G7D	37M8W7D	37M7W7D	37M8W7D



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3.9 Test Frequencies

Test Mode	TX / RX		RF Channel	
1 est Mode	ΙΛ/ ΠΛ	Low (L)	Middle (M)	High (H)
	TX	Channel 128	Channel 190	Channel 251
GSM850	1.7	824.2MHz	836.6 MHz	848.8 MHz
GSIVIOSU	DV	Channel 128	Channel 190	Channel 251
	RX	869.2 MHz	881.6 MHz	893.8 MHz

Test Mode	TX / RX		RF Channel	
rest Mode	ΙΛ/ ΠΛ	Low (L)	Middle (M)	High (H)
	TX	Channel 512	Channel 661	Channel 810
CCM1000	/1900 RX	1850.2MHz	1880.0 MHz	1909.8 MHz
GSWIT900		Channel 512	Channel 661	Channel 810
		1930.2 MHz	1960.0 MHz	1989.8 MHz

Test Mode	TX / RX		RF Channel	
i est ivioue	ΙΛ/ ΠΛ	Low (L)	Middle (M)	High (H)
	WCDMA Band II RX	Channel 9262	Channel 9400	Channel 9538
WCDMA Bond II		1852.4 MHz	1880.0 MHz	1907.6 MHz
WODIVIA BAHU II		Channel 9662	Channel 9800	Channel 9938
		1932.4 MHz	1960.0 MHz	1987.6 MHz

Test Mode	TX / RX		RF Channel	
1 631 Mode	IA/IIA	Low (L)	Middle (M)	High (H)
		Channel 1312	Channel 1413	Channel 1513
WCDMA Band IV	TX	1712.4MHz	1732.6 MHz	1752.6 MHz
WODIVIA Ballu IV	DV	Channel 1537	Channel 1638	Channel 1738
	RX	2112.4 MHz	2132.6 MHz	2152.6 MHz

Test Mode	TX / RX		RF Channel	
i est ivioue	IA/IIA	Low (L)	Middle (M)	High (H)
	TX	Channel 4132	Channel 4182	Channel 4233
WCDMA Band V	1 ^	826.4MHz	836.4 MHz	846.6 MHz
	RX	Channel 4357	Channel 4407	Channel 4458
	ΠΛ	871.4 MHz	881.4 MHz	891.6 MHz



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Test Mode	Bandwidth	TX / RX		RF Channel				
i est iviode	Dariuwiutii	ΙΛ / ΠΛ	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			
		ΠΛ	1930.7 MHz	1960 MHz	1989.3 MHz			
			Channel 18615	Channel 18900	Channel 19185			
		TX	1851.5 MHz	1880 MHz	1908.5 MHz			
	3MHz	RX	Channel 615	Channel 900	Channel 1185			
		ΠΛ	1931.5 MHz	1960 MHz	1988.5 MHz			
			Channel 18625	Channel 18900	Channel 19175			
		TX	1852.5 MHz	1880 MHz	1907.5 MHz			
	5MHz	RX	Channel 625	Channel 900	Channel1175			
LTE Band 2			1932.5 MHz	1960 MHz	1987.5 MHz			
LIE Dallu 2			Channel 18650	Channel 18900	Channel 19150			
		TX	1855 MHz	1880 MHz	1905 MHz			
	10MHz	RX	Channel 650	Channel 900	Channel 1150			
			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			
_		ΠΛ	1937.5 MHz	1960 MHz	1982.5 MHz			
			Channel 18700	Channel 18900	Channel 19100			
		TX	1860 MHz	1880 MHz	1900 MHz			
	20MHz	RX	Channel 700	Channel 900	Channel 1100			
		ΠΛ	1940 MHz	1960 MHz	1980 MHz			



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			1 age. 10 01 00					
Test Mode	Bandwidth	TX / RX	RF Channel					
i est ivioue	Dandwidth	17/117	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			
		ΠΛ	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	DV	Channel 2000	Channel 2175	Channel 2350			
		RX	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			Channel 20000	Channel 20175	Channel 20350			
		TX	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			
_		100	2117.5 MHz	2132.5MHz	2147.5 MHz			
			Channel 20050	Channel 20175	Channel 20300			
		TX	1720 MHz	1732.5 MHz	1745 MHz			
	20MHz	RX	Channel 2050	Channel 2175	Channel 2300			
		ΠΛ	2120 MHz	2132.5MHz	2145 MHz			

Took Mode	Danduidth	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		
		ΠΛ	869.7 MHz	881.5 MHz	893.3 MHz		
			Channel 20415	Channel 20525	Channel 20635		
		TX	825.5 MHz	836.5 MHz	847.5 MHz		
	3MHz	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		
	EN411		826.5 MHz	836.5 MHz	846.5 MHz		
	5MHz	RX	Channel 2425	Channel 2525	Channel 2625		
		ΠΛ	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		
		ПЛ	874 MHz	881.5 MHz	889 MHz		



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			rage. 190130				
Test Mode	Bandwidth	TX / RX		RF Channel			
rest Mode	Dariuwiutii	IA/ NA	Low (L)	Middle (M)	High (H)		
			Channel 20775	Channel 21100	Channel 21425		
		TX	2502.5 MHz	2535 MHz	2567.5 MHz		
	5MHz	RX	Channel 2775	Channel 3100	Channel 5825		
		ΠΛ	2622.5 MHz	2655 MHz	2687.5 MHz		
			Channel 20800	Channel 21100	Channel 21400		
		TX	2505 MHz	2535 MHz	2565 MHz		
	10MHz	RX	Channel 2800	Channel 3100	Channel 3400		
1.TE D 1.7			2625 MHz	2655 MHz	2685 MHz		
LTE Band 7		TX	Channel 20825	Channel 21100	Channel 21375		
	4 EVAL		2507.5 MHz	2535 MHz	2562.5 MHz		
	15MHz	RX	Channel 2825	Channel 3100	Channel 3375		
		ΠΛ	2627.5 MHz	2655 MHz	2682.5 MHz		
			Channel 20850	Channel 21100	Channel 21350		
		TX	2510 MHz	2535 MHz	2560 MHz		
	20MHz	RX	Channel 2850	Channel 3100	Channel 3350		
		ΠΛ	2630 MHz	2655 MHz	2680 MHz		

Test Mode	Test Mode Bandwidth		RF Channel				
rest Mode	Dariuwiutii	TX / RX	Low (L)	Middle (M)	High (H)		
	5MHz	TX/RX	Channel 37775	Channel38000	Channel 38225		
	SIVITZ	17/17	2572.5 MHz	2595 MHz	2617.5 MHz		
	10MHz	TX/RX	Channel 37800	Channel38000	Channel 38200		
LTE Band 38	TUIVIEZ	17/11/	2575 MHz	2595 MHz	2615 MHz		
LIE Danu 30	15MHz	TX/RX	Channel 37825	Channel38000	Channel 38175		
	IOIVITZ	17/117	2577.5 MHz	2595 MHz	2612.5 MHz		
	20MHz	TX/RX	Channel 37850	Channel38000	Channel 38150		
	ΖυΙνίΠΖ	17/117	2580 MHz	2595 MHz	2610 MHz		

Toot Mada	Dondwidth	TX / RX	RF Channel				
Test Mode	Bandwidth	IA/ NA	Low (L)	Middle (M)	High (H)		
			Channel 39675	Channel40620	Channel 41565		
	5MHz	TX / RX	2498.5 MHz	2593 MHz	2687.5 MHz		
			Channel 39700	Channel40620	Channel 41540		
LTE Band 41	10MHz	TX / RX	2501 MHz	2593 MHz	2685 MHz		
(2496-2690)			Channel 39725	Channel40620	Channel 41515		
	15MHz	TX / RX	2503.5 MHz	2593 MHz	2682.5 MHz		
			Channel 39750	Channel40620	Channel 41490		
	20MHz	TX / RX	2506 MHz	2593 MHz	2680 MHz		



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			Page. 200136							
Test Mode	Bandwidth	TX / RX		RF Channel						
i est ivioue	Danuwiutii	17/17	Low (L)	Middle (M)	High (H)					
			Channel 131979	Channel 132272	Channel 132565					
		TX	1710.7 MHz	1740 MHz	1769.3 MHz					
	1.4MHz	RX	Channel 66443	Channel 66736	Channel 67029					
		$\square \wedge$	2110.7 MHz	2140MHz	2169.3 MHz					
			Channel 131987	Channel 132272	Channel 132557					
		TX	1711.5 MHz	1740 MHz	1768.5MHz					
	3MHz	RX	Channel 66451	Channel 66736	Channel 67021					
		n.v.	2111.5 MHz	2140MHz	2168.5MHz					
			Channel 131997	Channel 132272	Channel 132547					
		TX	1712.5 MHz	1740 MHz	1767.5 MHz					
	5MHz	RX	Channel 66461	Channel 66736	Channel 67011					
LTC Davidoo			2112.5 MHz	2140MHz	2167.5 MHz					
LTE Band66			Channel 132022	Channel 132272	Channel 132522					
		TX	1715 MHz	1740 MHz	1765 MHz					
	10MHz	RX	Channel 66486	Channel 66736	Channel 66986					
		$\square \wedge$	2115 MHz	2140MHz	2165 MHz					
			Channel 132047	Channel 132272	Channel 132497					
		TX	1717.5 MHz	1740 MHz	1762.5 MHz					
	15MHz	RX	Channel 66511	Channel 66736	Channel 66961					
-		100	2117.5 MHz	2140MHz	2162.5 MHz					
			Channel 132072	Channel 132272	Channel 132472					
		TX	1720 MHz	1740 MHz	1760 MHz					
	20MHz	DV	Channel 66536	Channel 66736	Channel 66936					
		RX	2120 MHz	2140MHz	2160 MHz					



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Table 4.3.1.1.7A-1: Test frequencies for CA_7C

BW Nu IMHz Nu IMHz Nu IMHz Nu IMHz Nu IMHz IMHz Nu IMHz IMHz Nu IMHz IMHz	Range	CC-Combo / N _{RB_agg} [RB]			CC1 Note1					CC2 Note1		
Low 50+100 50 20805 2505.5 2805 2625.5 100 20949 2519.9 2949 2639.9 100 20850 2510 2850 2630 50 20994 2524.4 2994 2644.4 75+50 75 20825 2507.5 2825 2627.5 50 20945 2519.5 2945 2639.5 75+75 75 20828 2507.5 2825 2627.5 75 20975 252.5 2975 2642.5 75+100 75 20828 2507.8 2828 2627.8 100 20999 2524.9 2999 2644.9 100+100 100 20850 2500 2630 75 21021 2527.1 3021 2647.1 100+100 100 20850 250 2630 100 21048 2529.8 3048 2649.8 Mid 50+100 50 21006 2525.6 3006 2645.6 100 21150								1				
100 20850 2510 2850 2630 50 20994 2524.4 2994 2644.4 75+50 75 20825 2507.5 2825 2627.5 50 20945 2519.5 2945 2639.5 75+75 75 20825 2507.5 2825 2627.5 75 20975 2522.5 2975 2642.5 75+100 75 20828 2507.8 2828 2627.8 100 20999 2524.9 2999 2644.9 100 20850 2510 2850 2630 75 21021 2527.1 3021 2647.1 100+100 100 20850 2510 2850 2630 100 21048 2529.8 3048 2649.8 Mid 50+100 50 21006 2525.6 3006 2645.6 100 21150 2544.5 3150 2660 100 21051 2530.1 3051 2650.1 50 21195 2544.5 3195 2664.5 75+50 75 21025 2527.5 3025 2647.5 75 21175 2542.1 3171 2662.1 75+75 75 21025 2527.5 3025 2647.5 75 21175 2542.1 3174 2662.4 100 21062 2527.6 3026 2647.6 75 21177 2542.4 3174 2662.4 100 21026 2527.6 3026 2647.6 75 21197 2544.7 3197 2664.7 100+100 100 21001 2525.1 3001 2645.1 100 21199 2544.9 3199 2664.9 High 50+100 50 21206 2545.6 3206 2665.6 100 21350 2560 3350 2680 100 21251 2550.1 3251 2670.1 50 21395 2564.5 3395 2684.5 75+75 75 21225 2547.5 3225 2667.5 75 21375 2562.5 3375 2682.5 75+100 75 21179 2542.9 3179 2662.9 100 21350 2560 3350 2680 100 21201 2545.1 3201 2665.1 75 21375 2562.2 3372 2682.2 100+100 100 21012 2545.1 3201 2665.1 75 21372 2562.2 3372 2682.2 100+100 100 21152 2540.2 3152 2660.2 100 21350 2560 3350 2680 100 21201 2545.1 3201 2665.1 75 21375 2562.2 3372 2682.2 100+100 100 21152 2540.2 3152 2660.2 100 21350 2560 3350 2680 100 21201 2545.1 3201 2665.1 75 21375 2562.2 3372 2682.2 100+100 100 21152 2540.2 3152 2660.2 100 21350 2560 3350 2680 100 21201 2545.1 3201 266			[RB]									
75+50 75 20825 2507.5 2825 2627.5 50 20945 2519.5 2945 2639.5 75+75 75 20825 2507.5 2825 2627.5 75 20975 2522.5 2975 2642.5 75+100 75 20828 2507.8 2828 2627.8 100 20999 2524.9 2999 2644.9 100 20850 2510 2850 2630 75 21021 2527.1 3021 2647.1 100+100 100 20850 2510 2850 2630 100 21048 2529.8 3048 2649.8 Mid 50+100 50 21006 2525.6 3006 2645.6 100 21150 2540 3150 2660 Mid 50+100 21051 2530.1 3051 2650.1 50 21195 2544.5 3195 2664.5 75+50 75 21051 2530.1 3051 2650.1 50	Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9
75+75 75 20825 2507.5 2825 2627.5 75 20975 2522.5 2975 2642.5 75+100 75 20828 2507.8 2828 2627.8 100 20999 2524.9 2999 2644.9 100 20850 2510 2850 2630 75 21021 2527.1 3021 2647.1 100+100 100 20850 2510 2850 2630 100 21048 2529.8 3048 2649.8 Mid 50+100 50 21006 2525.6 3006 2645.6 100 21150 2540 3150 2660 100 21051 2530.1 3051 2650.1 50 21195 2544.5 3195 2664.5 75+50 75 21051 2530.1 3051 2650.1 50 21171 2542.5 3175 2662.5 75+100 75 21003 2525.3 3003 2647.5 75 21175			100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4
75+100 75 20828 2507.8 2828 2627.8 100 20999 2524.9 2999 2644.9 100 20850 2510 2850 2630 75 21021 2527.1 3021 2647.1 100+100 100 20850 2510 2850 2630 100 21048 2529.8 3048 2649.8 Mid 50+100 50 21006 2525.6 3006 2645.6 100 21150 2540 3150 2660 75+50 75 21051 2530.1 3051 2650.1 50 21171 2542.1 3171 2662.1 75+75 75 21025 2527.5 3025 2647.5 75 21175 2542.5 3175 2662.5 75+100 75 21003 2525.3 3003 2645.3 100 21174 2542.4 3174 2662.4 100+100 100 21026 2527.6 3026 2647.6 75		75+50	75	20825	2507.5	2825	2627.5	50	20945	2519.5	2945	2639.5
Mid 100 20850 2510 2850 2630 75 21021 2527.1 3021 2647.1 100+100 100 20850 2510 2850 2630 100 21048 2529.8 3048 2649.8 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.5 2644.7 2644.9		75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5
Mid S0+100 100 20850 2510 2850 2630 100 21048 2529.8 3048 2649.8		75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9
Mid 50+100 50 21006 2525.6 3006 2645.6 100 21150 2540 3150 2660 75+50 75 21051 2530.1 3051 2650.1 50 21195 2544.5 3195 2664.5 75+75 75 21025 2527.5 3025 2647.5 75 21175 2542.5 3175 2662.5 75+100 75 21003 2525.3 3003 2645.3 100 21174 2542.4 3174 2662.4 100 21026 2527.6 3026 2647.6 75 21197 2544.7 3197 2664.7 100+100 100 21001 2525.1 3001 2645.1 100 21199 2544.9 3199 2664.9 High 50+100 50 21206 2545.6 3206 2665.6 100 21350 2560 3350 2680 75+50 75 21277 2552.7 3277 2672.7			100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1
100		100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8
75+50 75 21051 2530.1 3051 2650.1 50 21171 2542.1 3171 2662.1 75+75 75 21025 2527.5 3025 2647.5 75 21175 2542.5 3175 2662.5 75+100 75 21003 2525.3 3003 2645.3 100 21174 2542.4 3174 2662.4 100 21026 2527.6 3026 2647.6 75 21197 2544.7 3197 2664.7 100+100 100 21001 2525.1 3001 2645.1 100 21199 2544.9 3199 2664.9 High 50+100 50 21206 2545.6 3206 2665.6 100 21350 2560 3350 2680 75+50 75 21277 2552.7 3277 2672.7 50 21397 2564.5 3397 2684.5 75+100 75 21275 2542.9 3179 2662.9 100 <td>Mid</td> <td>50+100</td> <td>50</td> <td>21006</td> <td>2525.6</td> <td>3006</td> <td>2645.6</td> <td>100</td> <td>21150</td> <td>2540</td> <td>3150</td> <td>2660</td>	Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660
75+75 75 21025 2527.5 3025 2647.5 75 21175 2542.5 3175 2662.5 75+100 75 21003 2525.3 3003 2645.3 100 21174 2542.4 3174 2662.4 100 21026 2527.6 3026 2647.6 75 21197 2544.7 3197 2664.7 100+100 100 21001 2525.1 3001 2645.1 100 21199 2544.9 3199 2664.9 High 50+100 50 21206 2545.6 3206 2665.6 100 21350 2560 3350 2680 75+50 75 21271 2552.7 3277 2672.7 50 21395 2564.5 3395 2684.5 75+75 75 21225 2547.5 3225 2667.5 75 21375 2562.5 3375 2682.5 75+100 75 21179 2542.9 3179 2662.9 100 <td></td> <td></td> <td>100</td> <td>21051</td> <td>2530.1</td> <td>3051</td> <td>2650.1</td> <td>50</td> <td>21195</td> <td>2544.5</td> <td>3195</td> <td>2664.5</td>			100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5
75+100 75 21003 2525.3 3003 2645.3 100 21174 2542.4 3174 2662.4 100 21026 2527.6 3026 2647.6 75 21197 2544.7 3197 2664.7 100+100 100 21001 2525.1 3001 2645.1 100 21199 2544.9 3199 2664.9 High 50+100 50 21206 2545.6 3206 2665.6 100 21350 2560 3350 2680 75+50 75 21277 2552.7 3277 2672.7 50 21395 2564.5 3395 2684.5 75+75 75 21225 2547.5 3225 2667.5 75 21375 2562.5 3375 2682.5 75+100 75 21179 2542.9 3179 2662.9 100 21350 2560 3350 2680 100+100 100 2152 2545.1 3201 2665.1		75+50	75	21051	2530.1	3051	2650.1	50	21171	2542.1	3171	2662.1
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75+50 75 21277 2552.7 3277 2672.7 50 21397 2564.7 3397 2684.7 75+75 75 21225 2547.5 3225 2667.5 75 21375 2562.5 3375 2682.5 75+100 75 21179 2542.9 3179 2662.9 100 21350 2560 3350 2680 100 21201 2545.1 3201 2665.1 75 21372 2562.2 3372 2682.2 100+100 100 21152 2540.2 3152 2660.2 100 21350 2560 3350 2680	High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680
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75+100 75 21179 2542.9 3179 2662.9 100 21350 2560 3350 2680 100 21201 2545.1 3201 2665.1 75 21372 2562.2 3372 2682.2 100+100 100 21152 2540.2 3152 2660.2 100 21350 2560 3350 2680		75+50	75	21277	2552.7	3277	2672.7	50	21397	2564.7	3397	2684.7
100 21201 2545.1 3201 2665.1 75 21372 2562.2 3372 2682.2 100+100 100 21152 2540.2 3152 2660.2 100 21350 2560 3350 2680		75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5
100+100 100 21152 2540.2 3152 2660.2 100 21350 2560 3350 2680		75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680
			100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2
		100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680
Note 1: Carriers in increasing frequency order.	Note 1:	Carriers in inc	reasing f	requency	order.							



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Table 4.3.1.2.6A-1: Test frequencies for CA_38C

Range	CC- Combo / NRB_agg [RB]		CC1 Note1			CC2 Note1			
		BW [RB]	N _{UL/DL}	ful/bl [MHz]	BW [RB]	N _{UL/DL}	ful/DL [MHz]		
Low	75+75	75	37825	2577.5	75	37975	2592.5		
	100+100	100	37850	2580	100	38048	2599.8		
Mid	75+75	75	37925	2587.5	75	38075	2602.5		
	100+100	100	37901	2585.1	100	38099	2604.9		
High	75+75	75	38025	2597.5	75	38175	2612.5		
	100+100	100	37952	2590.2	100	38150	2610		
Note 1:	Note 1: Carriers in increasing frequency order.								



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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
- 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
- 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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4.7 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 μ V/m) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB μ V/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 (dB μ V/m) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP(dB)) EIRP (dBm) = E (dB μ 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 & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

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

Margin = Limit(dBm) - Level(dBm)

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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4.8 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 $-30\,^{\circ}\text{C}$ to $+50\,^{\circ}\text{C}$ in $10\,^{\circ}\text{C}$ 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 $\pm 0.00025\%$ (± 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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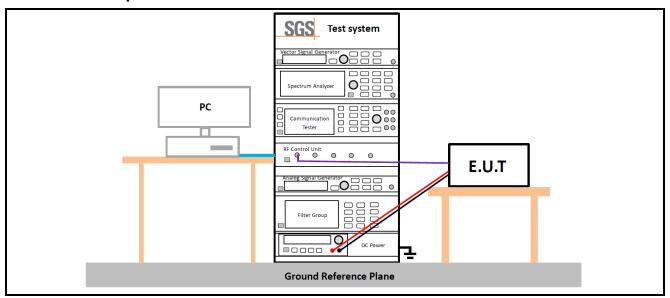


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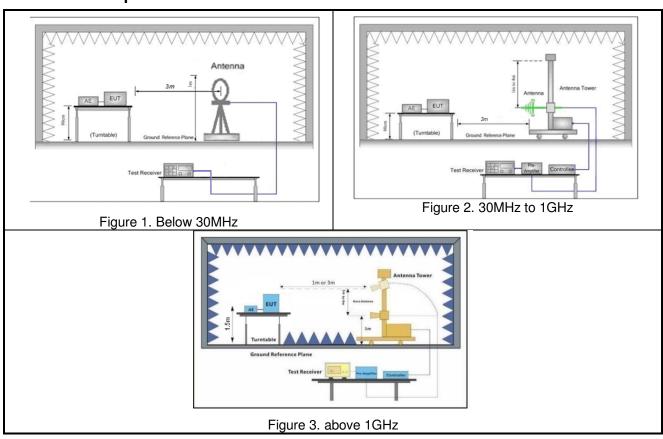
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4.9 Test Setups

4.9.1 Test Setup 1



4.9.2 Test Setup 2





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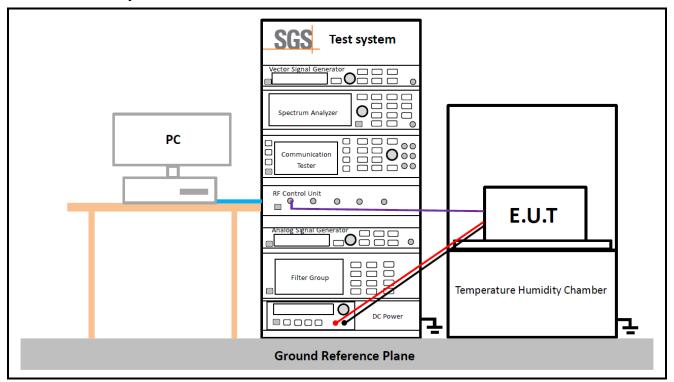
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4.9.3 Test Setup 3





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4.10Test Conditions

4.10 Test Cond	aitions								
	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	GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2; LTE/TM3								
	Peak-to-Average Ratio								
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	GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2; LTE/TM3								
Modulation Characteristics									
Test Case	Test Conditions								
Test Environment	Ambient Climate & Rated Voltage								
Test Setup	Test Setup 1								
RF Channels (TX)	M (M= middle channel)								
Test Mode	GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2; LTE/TM3								
	Bandwidth - Occupied Bandwidth								
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	GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2; LTE/TM3								
	Bandwidth - Emission Bandwidth								
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	GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2; LTE/TM3								



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	Band Edges Compliance
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, H (L= low channel, H= high channel)
Test Mode	GSM/TM1;UMTS/TM1; LTE/TM1;
	Spurious Emission at Antenna Terminals
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	GSM/TM1;UMTS/TM1; LTE/TM1;
	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: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.
	Frequency Stability
Test Case	Test Conditions
Test Environment	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage
Test Environment	(2) VL, VN and VH of Rated Voltage at Ambient Climate.
Test Setup	Test Setup 3
RF Channels (TX)	M (M= middle channel)
Till Offarmois (TX)	



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Main Test Instruments 5

	RF conducted test										
				Cal. date	Cal.Due date						
Test Equipment	Manufacturer	Model No.	Inventory No.	(yyyy/mm/dd)	(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&SCHWARZ	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 Test Ststion	Anritsu	MT8000A	SUWI-01-34-02	2022/09/16	2023/09/15						
Wideband Radio Communication Tester	ROHDE&SCHWARZ	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						
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14						
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27						



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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	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
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2021/12/04	2022/12/03
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	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	
2	RF power density, conducted	±1.03dB	
3	Spurious emissions, conducted	±0.54dB	
4	Radio Frequency	±1.0 %	
5	Duty Cycle	±0.37%	
6	Occupied Bandwidth	±1.0 %	
7		± 3.13dB (9k -30MHz)	
	Radiated Emission	± 4.8dB (30M -1GHz)	
	naulated Effission	± 4.8dB (1GHz to 18 GHz)	
		± 4.8dB (Above 18GHz)	

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/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 Appendixes

Appendix A.3	WWAN Setup Photos
Appendix B.1	GSM 850 & 1900
Appendix B.2	WCDMA Band II & IV & V
Appendix B.3	LTE Band 2
Appendix B.4	LTE Band 4
Appendix B.5	LTE Band 5
Appendix B.6	LTE Band 7
Appendix B.7	LTE Band 38
Appendix B.8	LTE Band 41
Appendix B.9	LTE Band 66
Appendix B.10	LTE CA_7C
Appendix B.11	LTE CA_38C

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