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TEST REPORT

Application No.:	SEWM2308000314RG	
Applicant:	Shenzhen Tinno Mobile Technology Corp.	
Address of Applicant:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC	
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.	
Address of Manufacturer:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC	
EUT Description:	Smart Phone	
Model No.:	Celero3 5G	
FCC ID:	XD6U653DS	
Standards:	47 CFR Part 2	
	47 CFR Part 22	
	47 CFR Part 24	
	47 CFR Part 27 47 CFR Part 90	
	47 CFR Part 96	
Data of Passints		
Date of Receipt:	2023/08/19	
Date of Test:	2023/09/02 to 2023/10/12	
Date of Issue:	2023/10/13	
Test Result :	PASS *	

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

Authorized Signature:

ven

Well Wei Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/10/13		Original

Prepared By	(Levi Li) / Test Engineer
Checked By	Stone Gu) / Reviewer



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2 Test Summary

2.1 GSM850/UMTS Band 5/LTE Band 5/26(824~849 MHz)/LTE CA_5B

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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.2&B.5&B.10&B.15	Pass
Peak- Average Ratio	§22.913(d)	Limit≤13 dB	Section 2 of Appendix B.1&B.2&B.5&B.10&B.15	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.1&B.2&B.5&B.10&B.15	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 4 of Appendix B.1&B.2&B.5&B.10&B.15	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 5 of Appendix B.1&B.2&B.5&B.10&B.15	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 6 of Appendix B.1&B.2&B.5&B.10&B.15	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §22.355	±2.5ppm.	Section 7 of Appendix B.1&B.2&B.5&B.10&B.15	Pass



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2.2 GSM 1900/UMTS Band 2 /LTE Band 2

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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.3	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 2 of Appendix B.1&B.2&B.3	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.1&B.2&B.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 4 of Appendix B.1&B.2&B.3	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	 ≤ -13 dBm/1 MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. 	Section 5 of Appendix B.1&B.2&B.3	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 6 of Appendix B.1&B.2&B.3	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §24.235	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.1&B.2&B.3	Pass



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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&B.4&B.13	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 2 of Appendix B.2&B.4&B.13	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.2&B.4&B.13	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 4 of Appendix B.2&B.4&B.13	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 5 of Appendix B.2&B.4&B.13	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 6 of Appendix B.2&B.4&B.13	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.2&B.4&B.13	Pass

2.3 UMTS Band 4 /LTE Band 4 /66



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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Section 1 of Appendix B.6&B.8	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.6&B.8	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.6&B.8	Pass
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 4 of Appendix B.6&B.8	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.6&B.8	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 6 of Appendix B.6&B.8	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.6&B.8	Pass

2.4 LTE Band 12/17

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.542(a)	ERP ≤ 3 W	Section 1 of Appendix B.7	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.7	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.7	Pass
Emission Mask	§2.1051 §90.210(b)	Transmitters designed for operation under this part on frequencies other than listed in this section must meet the emission mask requirements of Emission Mask B. Equipment operating under this part on frequencies allocated to but shared with the Federal Government, must meet the applicable Federal Government technical standards (b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows: (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.	Section 4 of Appendix B.7	Pass
Band Edges Compliance	§2.1051 §90.543(e)(2)(3)	 (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in 	Section 5 of Appendix B.7	Pass

2.5 LTE Band 14



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		a 6.25 kHz band segment, for mobile and portable stations.(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.		
Spurious Emission at Antenna Terminals	§2.1051, §90.543(c) §90.543(f)	 FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. 	Section 6 of Appendix B.7	Pass
Field Strength of Spurious Radiation	§2.1053, §90.543(c) §90.543(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Section 7 of Appendix B.7	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §90.213	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.7	Pass



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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.9	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.9	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.9	Pass
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.	Section 4 of Appendix B.9	Pass
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Section 5 of Appendix B.9	Pass
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Section 6 of Appendix B.9	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §90.213	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.9	Pass

2.6 LTE Band 26(814~824 MHz)

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Test Item FCC Rule No. Requirements **Test Result** Verdict Effective (Isotropic) §2.1046, Section 1 of EIRP ≤ 250mW/5MHz Pass **Radiated Power** §27.50(a)(3) Appendix B.11 Output Data Peak-Average Section 2 of FCC: Limit≤13 dB Pass Ratio Appendix B.11 OBW: No limit. Section 3 of Bandwidth §2.1049, Pass EBW: No limit. Appendix B.11 ≤ -13 dBm/1%*EBW, in 1 MHz §2.1051, **Band Edges** Section 4 of bands immediately outside and Pass Compliance §27.53(a)(4) Appendix B.11 adjacent to the frequency block. 2290 231 For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside Spurious the licensed band(s) of operation, Emission at §2.1051, Section 5 of Pass not less than 55 + 10 log (P) dB Antenna §27.53(a)(4) Appendix B.11 on all frequencies between 2320 Terminals and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67

2.7 LTE Band 30



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		 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz. 		
Field Strength of Spurious Radiation	§2.1053, §27.53(a)(4)	≤ -40dBm/MHz.	Section 6 of Appendix B.11	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	within the range of the operating frequency blocks	Section 7 of Appendix B.11	Pass



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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41	EIRP ≤ 23dBm/10MHz	Section 1 of Appendix B.12	Pass
Peak-Average Ratio	§96.41	FCC: Limit≤13 dB	Section 2 of Appendix B.12	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.12	Pass
Adjacent Channel Leakage Ratio	§96.41	the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.	Section 4 of Appendix B.12	Pass
Band Edges Compliance	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed –13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD- assigned channel edge.	Section 5 of Appendix B.12	Pass
Spurious Emission at Antenna Terminals	§2.1051, §96.41	 for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD- assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the 	Section 6 of Appendix B.12	Pass

2.8 LTE Band 48



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		conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.		
Field Strength of Spurious Radiation	§2.1053, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD- assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.	Section 7 of Appendix B.12	Pass
Frequency Stability	§2.1055, §96.41	Within authorized bands of operation/ frequency block.	Section 8 of Appendix B.12	Pass



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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W	Section 1 of Appendix B.14	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.14	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.14	Pass
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 4 of Appendix B.14	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	 ≤ -13 dBm/1 MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. 	Section 5 of Appendix B.14	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 6 of Appendix B.14	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	within the authorized bands of operation.	Section 7 of Appendix B.14	Pass

2.9 LTE Band 71



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3 General Information

3.1 Details of Client

Applicant:	Shenzhen Tinno Mobile Technology Corp.
Address of Applicant:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC

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:	Levi Li, King-p Li

3.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0120.

IC#: 27594.

• FCC – Designation Number: CN1312

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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EUT Description:	Smart Phone			
Model No.:	Celero3 5G			
Hardware Version:	V1.0			
Software Version:	N/A			
Power Supply:	Lithium Battery (3.85	V)		
	RF Conducted	8602840600016	573	
IMEI:	RSE	8602840600109	906	
Antenna Type:	Fixed Internal Anten	na		
	GSM850:	-2.1dBi (Ant1)	GSM1900:	-0.1dBi (Ant2)
	WCDMA Band II:	1.0dBi (Ant2)	WCDMA Ba	nd IV: -0.1dBi (Ant2)
	WCDMA Band V:	-2.1dBi (Ant1)		
	LTE Band 2:	1.0dBi (Ant2)	LTE Band 4:	-0.1dBi (Ant2)
	LTE Band 5:	-2.3dBi (Ant1)	LTE Band 12	2: -2.0dBi (Ant1)
Antenna Gain:	LTE Band 14:	-1.5dBi (Ant1)	LTE Band 17	7: -2.0dBi (Ant1)
	LTE Band 26:	-2.3dBi (Ant1)	LTE Band 30): -0.6dBi (Ant3)
	LTE Band 48:	-1.0dBi (An5)	LTE Band 66	6: 0.2dBi (Ant2)
	LTE Band 71:	-1.7dBi (Ant1)	LTE CA_5B:	-2.3dBi (Ant1)
	Note: The antenna gain are manufacturer.	e derived from the	gain informatior	report provided by the
RF Cable:	4.5dB(Below 1GHz)	4.8dB(1.0	~2 4GHz)	5.2dB(2.4~3.4GHz)

3.4 General Description of EUT

1、We tested the conducted power and EIRP of all antennas and only provided the worst data. Conducting other test items using the highest power port for testing.

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) are selected according to relevant radio technology specifications.		

3.6 Test Environment

Environment Parameter	101.0 kPa Selected	101.0 kPa Selected Values During Tests		
Relative Humidity	44-46 %	RH Ambient		
Value	Temperature(°C)	Voltage(V)		
NTNV	22~23	3.85		
LTLV	-30	3.6		
LTHV	-30	4.4		
HTLV	50	3.6		
HTHV	50	4.4		
Remark:				
NV: Normal Voltage LV: L	ow Extreme Test Voltage H	IV: High Extreme Test Voltage		
NT: Normal Temperature LT: L	ow Extreme Test Temperature H	HT: High Extreme Test Temperature		

3.7 Description of Support Units

The EUT has been tested as an independent unit.



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Description Characteristics Radio System Type GSM GSM **UMTS LTE** Band ТΧ RX GSM850 824 to 849 MHz 869 to 894 MHz 1850 to 1910 MHz 1930 to 1990 MHz GSM1900 UMTS Band II 1850 to 1910 MHz 1930 to 1990 MHz UMTS Band IV 1710 to 1755 MHz 2110 to 2155 MHz UMTS Band V 824 to 849 MHz 869 to 894 MHz LTE Band 2 1850 to 1910 MHz 1930 to 1990 MHz LTE Band 4 2110 to 2155 MHz 1710 to 1755 MHz LTE Band 5 869 to 894 MHz 824 to 849 MHz LTE Band 12 699 to 716 MHz 729 to 746 MHz LTE Band 14 788 to 798 MHz 758 to 768 MHz LTE Band 17 704 to 716 MHz 734 to 746 MHz Supported Frequency Range LTE Band 26 814 to 824MHz 859 to 869 MHz (814 to 824 MHz) LTE Band 26 824 to 849 MHz 869 to 894 MHz (824 to 849 MHz) LTE Band 30 2305 to 2315 MHz 2350 to 2360 MHz LTE Band 48 3550 to 3700 MHz 3550 to 3700 MHz LTE Band 66 1710 to 1780 MHz 2110 to 2200 MHz LTE Band 71 663 to 698 MHz 617 to 652 MHz LTE CA: CA 5B; CA 2A-12A; CA 12A-66A; CA 2A-5A; CA 5A-66A; CA 2A-14A; CA 14A-66A; CA 2A-4A; CA 2A-66A; Remark: ULCA inter-band Only test RSE, report only show worst mode. GSM system: 🖾 0.2 MHz UMTS system: ⊠5 MHz ⊠1.4 MHz ⊠3 MHz ⊠5 MHz 10 MHz LTE Band 2 ⊠15 MHz ⊠20 MHz Supported Channel Bandwidth \boxtimes 1.4 MHz \boxtimes 3 MHz ⊠5 MHz 10 MHz LTE Band 4 ⊠15 MHz ⊠20 MHz ⊠1.4 MHz ⊠3 MHz 10 MHz LTE Band 5 ⊠5 MHz

3.8 Technical Specification



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			Repor Rev.: Page:		SEW 01 21 of	/M23080003 f 48	314RG01
	LTE Band 12		⊠1.4 MHz		MHz	🛛 5 MHz	⊠10 MHz
	LTE Band 14		⊠5 MHz	⊠10	MHz		
	LTE Band 17		⊠5 MHz	⊠10	MHz		
	LTE Band 26(814-824))	⊠1.4 MHz	z ⊠3 M	MHz	🛛 5 MHz	⊠10 MHz
	LTE Band 26(824-849))	⊠1.4 MHz ⊠15 MHz		MHz	⊠5 MHz	⊠10 MHz
	LTE Band30		⊠5 MHz	⊠10	MHz		
	LTE Band48		⊠5 MHz	⊠10	MHz	🛛 15 MHz	⊠20 MHz
	LTE Band66		⊠1.4 MHz ⊠15MHz			⊠5 MHz	⊠10 MHz
	LTE Band71			<u> </u>	MHz	⊠15MHz	⊠20MHz
			⊠10MHz+	10MHz	<u>z</u>	⊠10MHz+	5MHz
	LTE Band CA_5B		⊠3MHz+5	5MHz		⊠5MHz+1	0MHz
			⊠5MHz+3	BMHz			
	Note: WCDMA suppor worst case was tested						but only the
Characteristics	Description						
	GSM:	GM	ISK 8	BPSK			
	GSM850	248	KGXW 2	247KG7	W		
	GSM1900	247	KGXW 2	249KG7	W		
	UMTS:	QP	SK				
	Band II	4M ⁻	17F9W				
	Band IV	4M ⁻	15F9W				
Designation of Emissions (Remark: the necessary	Band V	4M ⁻	16F9W				
bandwidth of which is the	E-UTRA:	QP	SK 1	6QAM		64QAM	256QAM
worst value from the measured occupied		1M ⁻	10G7D 1	M10W	7D	1M10W7D	1M09W7D
bandwidths for each type of		2M	70G7D 2	2M69W	7D	2M69W7D	2M69W7D
channel bandwidth configuration.)	LTE Band 2	4M4	47G7D 4	M47W	7D	4M47W7D	4M47W7D
O /		8M8	93G7D 8	8M93W	7D	8M94W7D	8M92W7D
		13N	/4G7D 1	3M5W	7D	13M4W7D	13M4W7D
		17N	/I9G7D 1	7M8W	7D	17M9W7D	17M9W7D
		1M ⁻	10G7D 1	M10W	7D	1M10W7D	1M09W7D
	LTE Band 4	2M	70G7D 2	2M69W	7D	2M69W7D	2M69W7D
		4M4	47G7D 4	M47W	7D	4M47W7D	4M47W7D



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Page: 22 of 48 8M93G7D 8M92W7D 8M94W7D 8M92W7D 13M8G7D 13M8G7D 13M8W7D 13M4W7D 17M9G7D 17M9W7D 17M9W7D 17M9W7D 17M9G7D 1M10W7D 1M10W7D 1M09W7D 2M70G7D 2M69W7D 2M69W7D 2M69W7D 2M70G7D 8M92W7D 8M93W7D 8M93W7D 4M47G7D 4M47W7D 4M47W7D 4M47W7D 8M92C7D 8M92W7D 8M93W7D 8M93W7D 4M47G7D 1M10W7D 1M10W7D 1M09W7D 2W70G7D 2M69W7D 2M69W7D 2M69W7D 4M47G7D 4M47W7D 4M47W7D 4M47W7D 8M92C7D 8M93W7D 8M93W7D 8M92W7D 4M47G7D 4M4707D 4M47W7D 8M92W7D 4M4667D 4M47W7D 8M92W7D 8M92W7D 4M4767D 4M4707D 8M93W7D 8M92W7D 4M4767D 4M4707D 4M47W7D 8M93W7D 4M4767D 8M93W7D 8			Rep Rev		WM2308000	314RG01
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LTE Band 14 8M93G7D 8M94W7D 8M95W7D 8M92W7D LTE Band 17 4M47G7D 4M46W7D 4M47W7D 4M47W7D RM94G7D 8M93W7D 8M93W7D 8M93W7D 8M93W7D LTE Band 26 1M10G7D 1M10W7D 1M10W7D 1M09W7D LTE Band 26 2M70G7D 2M70W7D 2M69W7D 2M69W7D (814-824) 4M47G7D 4M47W7D 4M47W7D 4M47W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 8M93W7D 8M93G7D 8M93W7D 4M47W7D 4M47W7D 4M47W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 8M93W7D 8M93G7D 8M93W7D 1M10W7D 1M10W7D 1M09W7D 1XTE Band 26 1M10G7D 1M10W7D 1M10W7D 1M09W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 8M93W7D 1XTE Band 26 4M46G7D 4M46W7D 4M47W7D 4M47W7D 1XTE Band 30 4M49G7D 4M50W7D 4M50W7D 8M98W7D			8M92G7D	8M93W7D	8M94W7D	8M93W7D
8M93G7D 8M94W7D 8M95W7D 8M92W7D LTE Band 17 4M47G7D 4M46W7D 4M47W7D 4M47W7D RM94G7D 8M93W7D 8M93W7D 8M93W7D 8M93W7D LTE Band 26 1M10G7D 1M10W7D 1M10W7D 1M09W7D (814-824) 4M47G7D 4M47W7D 4M47W7D 4M47W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 8M93W7D 8M93G7D 4M47G7D 4M47W7D 4M47W7D 4M47W7D (814-824) 4M47G7D 4M47W7D 4M47W7D 4M47W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 8M93W7D LTE Band 26 (824-849) 1M10G7D 1M10W7D 1M10W7D 1M09W7D 2M70G7D 2M70G7D 2M69W7D 8M93W7D 8M93W7D 8M93W7D LTE Band 30 4M46G7D 4M46W7D 4M47W7D 4M47W7D LTE Band 48 4M48G7D 4M50W7D 4M50W7D 4M50W7D LTE Band 48 13M5G7D 13M5W7D 13M5W7D			4M46G7D	4M47W7D	4M47W7D	4M47W7D
LTE Band 17 8M94G7D 8M93W7D 8M95W7D 8M93W7D LTE Band 26 1M10G7D 1M10W7D 1M09W7D 2M69W7D (814-824) 2M70G7D 2M70W7D 2M69W7D 2M69W7D (814-824) 4M47G7D 4M47W7D 4M47W7D 4M47W7D 8M93G7D 8M93W7D 8M94W7D 8M93W7D 8M93W7D LTE Band 26 (824-849) 1M10G7D 1M10W7D 1M09W7D 2M70G7D 2M70W7D 2M69W7D 2M69W7D 2M69W7D 2M70G7D 2M70W7D 1M10W7D 1M09W7D 2M70G7D 2M70W7D 2M69W7D 8M93W7D 2M70G7D 2M70G7D 2M69W7D 2M69W7D 2M70G7D 2M70W7D 2M69W7D 2M69W7D 2M70G7D 2M70G7D 1M10W7D 1M09W7D 2M70G7D 3M5G7D 8M92W7D 8M93W7D 3M5G7D 13M5W7D 13M5W7D 13M4W7D LTE Band 30 4M48G7D 4M50W7D 4M4907D 8M98G7D 8M97W7D		LIE Band 14	8M93G7D	8M94W7D	8M95W7D	8M92W7D
8M94G7D 8M93W7D 8M95W7D 8M93W7D LTE Band 26 (814-824) 1M10G7D 1M10W7D 1M10W7D 1M09W7D 2M70G7D 2M70W7D 2M69W7D 2M69W7D 2M69W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 8M93W7D 8M93G7D 8M93W7D 4M47W7D 4M47W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 1M10G7D 1M10W7D 1M10W7D 1M09W7D 2M70G7D 2M70G7D 2M69W7D 2M69W7D 2M70G7D 2M70W7D 2M69W7D 2M69W7D 2M70G7D 2M70W7D 2M69W7D 2M69W7D 2M70G7D 2M70F7D 8M93W7D 8M93W7D 8M93G7D 8M93G7D 8M92W7D 8M93W7D 13M5G7D 13M5G7D 13M5W7D 13M4W7D LTE Band 30 4M48G7D 4M50W7D 4M50W7D 12TE Band 48		LTE Band 17	4M47G7D	4M46W7D	4M47W7D	4M47W7D
LTE Band 26 (814-824) 2M70G7D 2M70W7D 2M69W7D 2M69W7D 6814-824) 4M47G7D 4M47W7D 4M47W7D 4M47W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 8M93W7D 8M93G7D 1M10G7D 1M10W7D 1M09W7D 2M69W7D LTE Band 26 (824-849) 1M10G7D 1M10W7D 1M09W7D 2M69W7D 8M93G7D 8M92W7D 8M93W7D 8M93W7D 8M93W7D 8M93G7D 8M92W7D 4M47W7D 4M47W7D 8M93G7D 8M92W7D 8M93W7D 8M93W7D 8M93G7D 8M92W7D 8M95W7D 8M93W7D 13M5G7D 13M5W7D 13M4W7D 4M47W7D 13M5G7D 13M5W7D 13M407D 8M98W7D LTE Band 30 8M97G7D 8M97W7D 8M98W7D 8M98W7D LTE Band 48 13M5G7D 13M5W7D 13M5W7D 13M5W7D LTE Band 48 13M5G7D 13M5W7D 13M5W7D 13M5W7D LTE Band 66 1M09G7D 1M007D 13M5W7D			8M94G7D	8M93W7D	8M95W7D	8M93W7D
(814-824) 4M47G7D 4M47W7D 4M47W7D 4M47W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 8M93W7D 8M93G7D 8M93W7D 8M93W7D 8M93W7D 8M93W7D 8M5 1M10G7D 1M10W7D 1M09W7D 1M09W7D 2M70G7D 2M70W7D 2M69W7D 2M69W7D 2M46G7D 4M46G7D 4M47W7D 4M47W7D 8M93G7D 8M92W7D 8M95W7D 8M93W7D 8M93G7D 8M92W7D 8M95W7D 8M93W7D 8M93G7D 13M5G7D 13M5W7D 13M4W7D 12TE Band 30 4M49G7D 4M50W7D 4M50W7D 4M50W7D 8M97G7D 8M97W7D 8M98W7D 8M98W7D 8M98W7D 8M97G7D 8M97W7D 8M98W7D 8M98W7D 8M98W7D 8M98G7D 8M97W7D 4M50W7D 4M49W7D 8M98G7D 8M97W7D 8M96W7D 13M5W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5G7D 13M607D 18M0W7D <td></td> <td rowspan="4"></td> <td>1M10G7D</td> <td>1M10W7D</td> <td>1M10W7D</td> <td>1M09W7D</td>			1M10G7D	1M10W7D	1M10W7D	1M09W7D
BM93G7D 8M93W7D 8M94W7D 8M93W7D LTE Band 26 (824-849) 1M10G7D 1M10W7D 1M10W7D 1M09W7D 2M70G7D 2M70W7D 2M69W7D 2M69W7D 4M46G7D 4M46W7D 4M47W7D 4M47W7D 8M93G7D 8M92W7D 8M93W7D 8M93W7D 1M10G7D 13M5W7D 13M5W7D 4M47W7D 8M93G7D 8M92W7D 8M93W7D 8M93W7D 1M10G7D 13M5W7D 13M5W7D 13M47W7D 1M5G7D 13M5W7D 13M5W7D 13M4W7D LTE Band 30 4M49G7D 4M50W7D 4M50W7D 4M50W7D LTE Band 48 4M48G7D 4M50W7D 4M490W7D 8M98W7D LTE Band 48 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5W7D LTE Band 48 13M5G7D 13M5W7D 13M5W7D 13M5W7D LTE Band 66 2M70G7D 2M69W7D 18M0W7D 1M09W7D LTE Band 66 <td< td=""><td></td><td>2M70G7D</td><td>2M70W7D</td><td>2M69W7D</td><td>2M69W7D</td></td<>			2M70G7D	2M70W7D	2M69W7D	2M69W7D
IM10G7D 1M10W7D 1M10W7D 1M09W7D ITE Band 26 2M70G7D 2M70W7D 2M69W7D 2M69W7D 4M46G7D 4M46W7D 4M47W7D 4M47W7D 8M93G7D 8M92W7D 8M93W7D 8M93W7D 13M5G7D 13M5W7D 13M5W7D 13M4W7D ITE Band 30 4M49G7D 4M50W7D 4M50W7D 4M50W7D ITE Band 30 4M48G7D 4M50W7D 4M50W7D 4M50W7D ITE Band 30 4M48G7D 4M50W7D 4M490W7D 8M98W7D ITE Band 48 4M48G7D 4M50W7D 4M49W7D 8M98W7D ITE Band 48 13M5G7D 13M5W7D 13M5W7D 13M5W7D ITE Band 48 13M5G7D 13M5W7D 13M5W7D 13M5W7D Item band 66 13M5G7D 13M0W7D 18M0W7D 14M09W7D Item band 66 1M09G7D 1M10W7D 1M09W7D 2M69W7D			4M47G7D	4M47W7D	4M47W7D	4M47W7D
LTE Band 26 (824-849) 2M70G7D 2M69W7D 2M69W7D 4M46G7D 4M46W7D 4M47W7D 4M47W7D 8M93G7D 8M92W7D 8M95W7D 8M93W7D 13M5G7D 13M5G7D 13M5W7D 13M5W7D 13M4W7D LTE Band 30 4M49G7D 4M50W7D 4M50W7D 4M50W7D LTE Band 30 4M48G7D 4M50W7D 4M50W7D 8M98W7D LTE Band 30 4M48G7D 4M50W7D 4M50W7D 8M98W7D AM97G7D 8M97W7D 8M98W7D 8M98W7D 8M98W7D AM48G7D 4M50W7D 4M50W7D 8M98W7D 8M98W7D AM48G7D 4M50W7D 4M50W7D 8M98W7D 8M98W7D AM48G7D 4M50W7D 4M50W7D 8M98W7D 8M98W7D AM48G7D 13M507D 13M5W7D 13M5W7D 13M5W7D AM48G7D 4M4007D 13M5W7D 13M5W7D 13M5W7D AM98G7D 13M507D 13M5W7D 13M5W7D 13M5W7D AM007D 18M007D 18M0W7D			8M93G7D	8M93W7D	8M94W7D	8M93W7D
LTE Band 26 (824-849) 4M46G7D 4M47W7D 4M47W7D 8M93G7D 8M92W7D 8M95W7D 8M93W7D 13M5G7D 13M5W7D 13M5W7D 13M4W7D 13M5G7D 13M5W7D 13M5W7D 13M4W7D 13M5G7D 13M5W7D 13M5W7D 13M4W7D 12TE Band 30 4M49G7D 4M50W7D 4M50W7D 4M50W7D 12TE Band 30 8M97G7D 8M97W7D 8M98W7D 8M98W7D 12TE Band 30 4M48G7D 4M50W7D 4M50W7D 4M490V7D 12TE Band 48 4M48G7D 4M50W7D 8M98W7D 8M98W7D 12TE Band 48 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5W7D 13M5G7D 13M607D 13M5W7D 13M5W7D			1M10G7D	1M10W7D	1M10W7D	1M09W7D
(824-849) 4M46G7D 4M46W7D 4M47W7D 4M47W7D 8M93G7D 8M92W7D 8M95W7D 8M93W7D 13M5G7D 13M5W7D 13M5W7D 13M4W7D 13M5G7D 13M5W7D 13M5W7D 13M4W7D LTE Band 30 4M49G7D 4M50W7D 4M50W7D 4M50W7D 8M97G7D 8M97W7D 8M98W7D 8M98W7D 8M98W7D 4M48G7D 4M450W7D 4M50W7D 4M49W7D 8M98W7D 4M48G7D 4M50W7D 4M50W7D 4M49W7D 8M98W7D 8M98G7D 8M97W7D 8M96W7D 8M96W7D 8M96W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5W7D 18M0G7D 18M0W7D 18M0W7D 18M0W7D 18M0W7D 12TE Band 66 1M09G7D 1M10W7D 1M09W7D 2M69W7D 2M70G7D 2M69W7D 2M69W7D 2M69W7D 2M69W7D 4M47G7D 4M47W7D 4M47W7D			2M70G7D	2M70W7D	2M69W7D	2M69W7D
8M93G7D 8M92W7D 8M95W7D 8M93W7D 13M5G7D 13M5W7D 13M5W7D 13M4W7D 13M5G7D 13M5W7D 13M5W7D 13M4W7D LTE Band 30 4M49G7D 4M50W7D 4M50W7D 4M50W7D 8M97G7D 8M97W7D 8M98W7D 8M98W7D 8M98W7D 4M48G7D 4M50W7D 4M50W7D 4M49W7D 8M98G7D 8M97W7D 9M00W7D 8M96W7D 8M98G7D 8M97W7D 13M5W7D 13M5W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 8M98G7D 8M97W7D 13M5W7D 13M5W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M0G7D 18M0W7D 18M0W7D 18M0W7D 12M70G7D 1M10W7D 1M09W7D 2M69W7D 2M70G7D 2M69W7D 2M69W7D 2M69W7D 4M47G7D 4M47W7D 4M47W7D			4M46G7D	4M46W7D	4M47W7D	4M47W7D
LTE Band 30 4M49G7D 4M50W7D 4M50W7D 4M50W7D 8M97G7D 8M97W7D 8M98W7D 8M98W7D 8M97G7D 4M48G7D 4M50W7D 4M49W7D 4M48G7D 4M50W7D 4M50W7D 4M49W7D 8M98G7D 8M97W7D 9M00W7D 4M49W7D 8M98G7D 8M97W7D 9M00W7D 8M96W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M0G7D 13M5W7D 13M5W7D 13M5W7D 18M0G7D 18M0W7D 18M0W7D 18M0W7D 18M0G7D 1009G7D 1M10W7D 1M09W7D 12M70G7D 2M69W7D 2M69W7D 2M69W7D 2M70G7D 2M69W7D 4M47W7D 4M47W7D		(024-049)	8M93G7D	8M92W7D	8M95W7D	8M93W7D
LTE Band 30 8M97G7D 8M97W7D 8M98W7D 8M98W7D AM48G7D 4M48G7D 4M50W7D 4M49W7D AM98G7D 8M97W7D 9M00W7D 8M96W7D BM98G7D 8M97W7D 9M00W7D 8M96W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 18M0G7D 18M0W7D 18M0W7D 18M0W7D 18M0G7D 1M10W7D 1M09W7D 18M0W7D LTE Band 66 2M70G7D 2M69W7D 2M69W7D 4M47G7D 4M47W7D 4M47W7D 4M47W7D			13M5G7D	13M5W7D	13M5W7D	13M4W7D
8M97G7D 8M97W7D 8M98W7D 8M98W7D AM48G7D 4M50W7D 4M50W7D 4M49W7D AM48G7D 8M97W7D 9M00W7D 4M49W7D 8M98G7D 8M97W7D 9M00W7D 8M96W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 18M0G7D 18M0W7D 18M0W7D 18M0W7D 18M0G7D 1M10W7D 1M09W7D 18M0W7D LTE Band 66 2M70G7D 2M69W7D 2M69W7D 4M47G7D 4M47W7D 4M47W7D 4M47W7D			4M49G7D	4M50W7D	4M50W7D	4M50W7D
BM98G7D BM97W7D 9M00W7D BM96W7D 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5W7D 13M0G7D 13M0W7D 13M0W7D 13M0W7D 18M0W7D 18M0G7D 18M0W7D 18M0W7D 18M0W7D 18M0W7D 1M09G7D 1M10W7D 1M10W7D 1M09W7D 2M70G7D 2M69W7D 2M69W7D 2M69W7D 4M47G7D 4M47W7D 4M47W7D 4M47W7D		LIE Band 30	8M97G7D	8M97W7D	8M98W7D	8M98W7D
LTE Band 48 13M5G7D 13M5W7D 13M5W7D 13M5W7D 13M5W7D 18M0G7D 18M0W7D 18M0W7D 18M0W7D 18M0W7D 1M10W7D 1M09W7D 2M70G7D 2M69W7D 2M69W7D 2M69W7D 4M47G7D 4M47W7D 4M47W7D 4M47W7D			4M48G7D	4M50W7D	4M50W7D	4M49W7D
13M5G7D 13M5W7D 13M5W7D 13M5W7D 18M0G7D 18M0W7D 18M0W7D 18M0W7D 18M0G7D 18M0W7D 18M0W7D 18M0W7D 1M09G7D 1M10W7D 1M10W7D 1M09W7D 2M70G7D 2M69W7D 2M69W7D 2M69W7D 4M47G7D 4M47W7D 4M47W7D 4M47W7D			8M98G7D	8M97W7D	9M00W7D	8M96W7D
1M09G7D 1M10W7D 1M10W7D 1M09W7D 2M70G7D 2M69W7D 2M69W7D 2M69W7D 2M69W7D 4M47G7D 4M47W7D 4M47W7D 4M47W7D 4M47W7D		LIE Band 48	13M5G7D	13M5W7D	13M5W7D	13M5W7D
LTE Band 66 2M70G7D 2M69W7D 2M69W7D 2M69W7D 2M69W7D 4M47W7D 4M47W7D 4M47W7D 4M47W7D			18M0G7D	18M0W7D	18M0W7D	18M0W7D
LTE Band 66 4M47G7D 4M47W7D 4M47W7D 4M47W7D			1M09G7D	1M10W7D	1M10W7D	1M09W7D
4M47G7D 4M47W7D 4M47W7D 4M47W7D			2M70G7D	2M69W7D	2M69W7D	2M69W7D
8M93G7D 8M93W7D 8M94W7D 8M94W7D		LIE Band 66	4M47G7D	4M47W7D	4M47W7D	4M47W7D
			8M93G7D	8M93W7D	8M94W7D	8M94W7D



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		Rep Rev Pag		WM2308000 of 48	314RG01
		13M5G7D	13M5W7D	13M5W7D	13M4W7D
		17M9G7D	17M9W7D	17M9W7D	17M9W7D
		4M46G7D	4M47W7D	4M47W7D	4M47W7D
	LTE Band 71	8M93G7D	8M92W7D	8M94W7D	8M93W7D
		13M5G7D	13M4W7D	13M4W7D	13M4W7D
		17M9G7D	17M9W7D	17M9W7D	17M9W7D
		50RB+50RE	3:		
		18M9G7D	18M8W7D	18M8W7D	18M8W7D
		50RB+25RE	3:		
		13M9G7D	13M9W7D	13M8W7D	13M9W7D
	LTE Band CA 5B	15RB+25RE	3:		
	LTE Dand CA_3D	7M47G7D	7M49W7D	7M47W7D	7M50W7D
		25RB+50RE	3:		
		13M8G7D	13M8W7D	13M8W7D	13M8W7D
		25RB+15RE	3:		
		7M50G7D	7M53W7D	7M52W7D	7M52W7D



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3.9 Test Frequencies

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

Test Mode	TX / RX	RF Channel				
I EST MODE		Low (L)	Middle (M)	High (H)		
	ТХ	Channel 512	Channel 661	Channel 810		
GSM1900		1850.2MHz	1880.0 MHz	1909.8 MHz		
G2W1900	RX	Channel 512	Channel 661	Channel 810		
	ΓΛ	1930.2 MHz	1960.0 MHz	1989.8 MHz		

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

Test Mode	TX / RX	RF Channel		
I EST MODE		Low (L)	Middle (M)	High (H)
		Channel 1312	Channel 1413	Channel 1513
WCDMA Band IV	TX	1712.4MHz	1732.6 MHz	1752.6 MHz
	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 MODE		Low (L)	Middle (M)	High (H)		
	ТХ	Channel 4132	Channel 4182	Channel 4233		
WCDMA Band V		826.4MHz	836.4 MHz	846.6 MHz		
	DV	Channel 4357	Channel 4407	Channel 4458		
	RX	871.4 MHz	881.4 MHz	891.6 MHz		



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TeetMede	Danakuriatéh		Ŭ	RF Channel			
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)		
			Channel 18607	Channel 18900	Channel 19193		
		ТХ	1850.7 MHz	1880 MHz	1909.3 MHz		
	1.4MHz	RX	Channel 607	Channel 900	Channel 1193		
		КЛ	1930.7 MHz	1960 MHz	1989.3 MHz		
			Channel 18615	Channel 18900	Channel 19185		
		ТХ	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	z TX RX	Channel 18625	Channel 18900	Channel 19175		
			1852.5 MHz	1880 MHz	1907.5 MHz		
			Channel 625	Channel 900	Channel1175		
LTE Band 2			1932.5 MHz	1960 MHz	1987.5 MHz		
			Channel 18650	Channel 18900	Channel 19150		
		ТХ	1855 MHz	1880 MHz	1905 MHz		
	10MHz	RX	Channel 650	Channel 900	Channel 1150		
		۲۸	1935 MHz	1960 MHz	1985 MHz		
			Channel 18675	Channel 18900	Channel 19125		
		ТХ	1857.5 MHz	1880 MHz	1902.5 MHz		
	15MHz	RX	Channel 675	Channel 900	Channel 1125		
			1937.5 MHz	1960 MHz	1982.5 MHz		
		TV	Channel 18700	Channel 18900	Channel 19100		
	001411	ТХ	1860 MHz	1880 MHz	1900 MHz		
	20MHz	RX	Channel 700	Channel 900	Channel 1100		
			1940 MHz	1960 MHz	1980 MHz		



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TestMede	Development			RF Channel	
Test Mode	Bandwidth	TX/RX	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
		RA.	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
-		RA.	2115 MHz	2132.5MHz	2150 MHz
	5MHz	тх	Channel 19975	Channel 20175	Channel 20375
			1712.5 MHz	1732.5 MHz	1752.5 MHz
		RX	Channel 1975	Channel 2175	Channel 2375
		КЛ	2112.5 MHz	2132.5MHz	2152.5 MHz
LTE Band 4		тх	Channel 20000	Channel 20175	Channel 20350
			1715 MHz	1732.5 MHz	1750 MHz
	10MHz	RX	Channel 2000	Channel 2175	Channel 2350
		RA.	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
			2117.5 MHz	2132.5MHz	2147.5 MHz
			Channel 20050	Channel 20175	Channel 20300
		ТХ	1720 MHz	1732.5 MHz	1745 MHz
	20MHz	DV	Channel 2050	Channel 2175	Channel 2300
		RX	2120 MHz	2132.5MHz	2145 MHz

Test Made	Donduidth	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	
			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	
			870.5 MHz	881.5 MHz	892.5 MHz	
LTE Band 5		тх	Channel 20425	Channel 20525	Channel 20625	
			826.5 MHz	836.5 MHz	846.5 MHz	
	5MHz	DV	Channel 2425	Channel 2525	Channel 2625	
		RX	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	
			874 MHz	881.5 MHz	889 MHz	



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Test Mede	Bandwidth	TX / RX		RF Channel			
Test Mode	Danuwiutin		Low (L)	Middle (M)	High (H)		
			Channel 23017	Channel 23095	Channel 23173		
		ТХ	699.7 MHz	707.5 MHz	715.3 MHz		
	1.4MHz	DV	Channel 5017	Channel 5095	Channel 5173		
		RX	729.7 MHz	737.5 MHz	745.3 MHz		
	3MHz	ТХ	Channel 23025	Channel 23095	Channel 23165		
			700.5 MHz	707.5 MHz	714.5 MHz		
		RX	Channel 5025	Channel 5095	Channel 5165		
			730.5 MHz	737.5 MHz	744.5 MHz		
LTE Band 12		тх	Channel 23035	Channel 23095	Channel 23155		
			701.5 MHz	707.5 MHz	713.5 MHz		
	5MHz	DV	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	DV	Channel 5060	Channel 5095	Channel 5130		
		RX	734 MHz	737.5 MHz	741 MHz		
Test Mode	Bandwidth	TX / RX		RF Channel			

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

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



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TestMade	Donduvidth			RF Channel			
Test Mode	Bandwidth	TX / RX	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		
			859.7 MHz	864MHz	868.3 MHz		
	3MHz	тх	Channel 26705	Channel 26740	Channel 26775		
			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)		тх	Channel 26715	Channel 26740	Channel 26765		
(•••••••)	5 4 1		816.5 MHz	819 MHz	821.5 MHz		
	5MHz	RX	Channel 8715	Channel 8740	Channel 8755		
		КЛ	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		
		ΓΛ	864MHz	864MHz	864MHz		

Test Mode	Bandwidth		RF Channel				
Test Mode	Danuwidun	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		
		ΓΛ.	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	ΒV	Channel 8805	Channel 8915	Channel 9025		
		RX	860.5 MHz	881.5 MHz	892.5 MHz		
	5MHz	тх	Channel 26815	Channel 26915	Channel 27015		
LTE Band26			826.5 MHz	836.5 MHz	846.5 MHz		
(824-849)		RX	Channel 8815	Channel 8915	Channel 9015		
(871.5 MHz	881.5 MHz	891.5 MHz		
			Channel 26840	Channel 26915	Channel 26990		
		TX	829 MHz	836.5 MHz	844 MHz		
	10MHz	RX	Channel 8840	Channel 8915	Channel 8990		
			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		
Test Mode	Danuwiutn		Low (L)	Middle (M)	High (H)	
	5MHz	тх	Channel 27685	Channel27710	Channel 27735	
			2307.5 MHz	2310MHz	2312.5 MHz	
		RX	Channel 9795	Channel 9820	Channel 9845	
LTE Band 30			2352.5MHz	2355 MHz	2357.5MHz	
LIE Danu 30			Channel 27710	Channel27710	Channel27710	
		TX	2310 MHz	2310MHz	2310MHz	
	10MHz	DV	Channel 9820	Channel 9820	Channel 9820	
		RX	2355 MHz	2355 MHz	2355 MHz	

Test Mode	Bandwidth	TX / RX	RF Channel				
Test Mode	Danuwiuti		Low (L)	Middle (M)	High (H)		
			Channel 55265	Channel55990	Channel 56715		
	5MHz	TX/RX	3552.5 MHz	3625.0 MHz	3697.5 MHz		
	10MHz		Channel 55290	Channel55990	Channel 56690		
LTE Band 48		TX/RX	3555.0 MHz	3625.0 MHz	3695.0 MHz		
LIE Danu 40	15MHz	TX/RX	Channel 55315	Channel55990	Channel 56665		
			3557.5 MHz	3625.0 MHz	3692.5 MHz		
	201411-		Channel 55340	Channel55990	Channel 56640		
	20MHz	TX/RX	3560.0 MHz	3625.0 MHz	3690.0 MHz		



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TastMade	Developed		J	RF Channel			
Test Mode	Bandwidth	TX/RX	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		
		RA.	2110.7 MHz	2145MHz	2199.3 MHz		
			Channel 131987	Channel 132322	Channel 132657		
		TX	1711.5 MHz	1745 MHz	1778.5MHz		
	3MHz	RX	Channel 66451	Channel 66786	Channel 67321		
		RA.	2111.5 MHz	2145MHz	2198.5MHz		
	5MHz	тх	Channel 131997	Channel 132322	Channel 132647		
			1712.5 MHz	1745 MHz	1777.5 MHz		
		RX	Channel 66461	Channel 66786	Channel 67311		
			2112.5 MHz	2145MHz	2197.5 MHz		
LTE Band66	10MHz	ТХ	Channel 132022	Channel 132322	Channel 132622		
			1715 MHz	1745 MHz	1775 MHz		
		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	RX	Channel 66536	Channel 66786	Channel 67236		
		۳۸	2120 MHz	2145MHz	2190 MHz		



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



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Range	CC-Combo / NRB_agg [RB]			CC1 Note1					CC2 Note1		
		BW [RB]	NUL	ful [MHz]	NDL	f _{DL} [MHz]	BW [RB]	NUL	fu∟ [MHz]	NDL	f _{DL} [MHz]
Low	15+25	15	20416	825.6	2416	870.6	25	20455	829.5	2455	874.5
		25	20425	826.5	2425	871.5	15	20464	830.4	2464	875.4
	25+50	25	20428	826.8	2428	871.8	50	20500	834	2500	879
	50+25	50	20450	829	2450	874	25	20522	836.2	2522	881.2
	50+50	50	20450	829	2450	874	50	20549	838.9	2549	883.9
Mid	15+25	15	20501	834.1	2501	879.1	25	20540	838.0	2540	883.0
		25	20510	835.0	2510	880.0	15	20549	838.9	2549	883.9
	25+50	25	20478	831.8	2478	876.8	50	20550	839	2550	884
	50+25	50	20500	834	2500	879	25	20572	841.2	2572	886.2
	50+50	50	20476	831.6	2476	876.6	50	20575	841.5	2575	886.5
High	15+25	15	20586	842.6	2586	887.6	25	20625	846.5	2625	891.5
_		25	20595	843.5	2595	888.5	15	20634	847.4	2634	892.4
	25+50	25	20528	836.8	2528	881.8	50	20600	844	2600	889
	50+25	50	20550	839	2550	884	25	20622	846.2	2622	891.2
	50+50	50	20501	834.1	2501	879.1	50	20600	844	2600	889
Note 1:	Carriers in ind	creasing f	requency	order.							

Table 4.3.1.1.5A-1: Test frequencies for CA_5B



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4 Description of Tests

4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

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

Remark: Reference test setup 1



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4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4

Calculate power in dBm by the following formula:

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

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

EIRP=ERP+2.15dB



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4.3 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
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize



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4.5 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 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 (dBµV/m) = Measured amplitude level (dBµV) + (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 & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics

had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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



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4.8 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 $\pm 0.00025\%$ (± 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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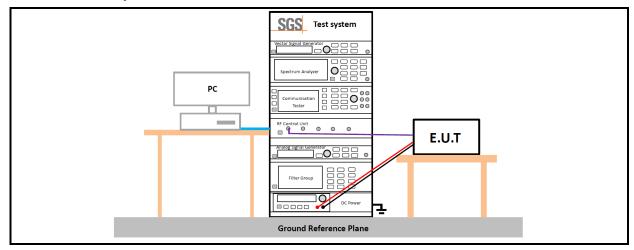
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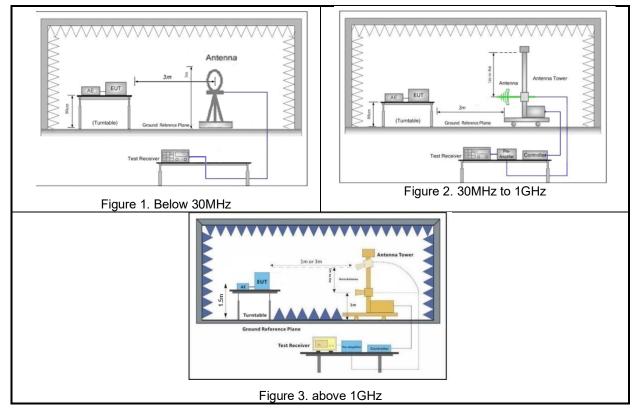
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4.9 Test Setups

4.9.1 Test Setup 1



4.9.2 Test Setup 2



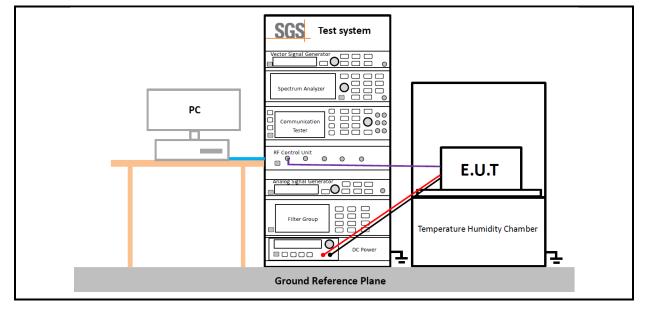


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4.9.3 Test Setup 3





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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	GSM/TM1;GSM/TM2;UMTS/TM1;LTE/TM1;LTE/TM2;LTE/TM3;LTE/TM4			
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;LTE/TM4			
	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;LTE/TM4			
	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;LTE/TM4			
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;GSM/TM2;UMTS/TM1;LTE/TM1			
	Spurious Emission at Antenna Terminals			
Test Case	Test Conditions			



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Ambient Climate & Rated Voltage				
Test Setup 1				
L, M, H (L= low channel, M= middle channel, H= high channel)				
GSM/TM1;GSM/TM2;UMTS/TM1;LTE/TM1				
Field Strength of Spurious Radiation				
Test Conditions				
Ambient Climate & Rated Voltage				
Test Setup 2				
L, M, H (L= low channel, M= middle channel, H= high channel)				
GSM/TM1;UMTS/TM1;LTE/TM1 Remark: All bandwidth and modulation of GSM/UMTS/LTE have been pre tested, and only the worst results are reflected in the report.				
Frequency Stability				
Test Conditions				
(1) -30 °C to +50 °C with step 10 °C at Rated Voltage				
(2) VL, VN and VH of Rated Voltage at Ambient Climate.				
Test Setup 3				
M (M= middle channel)				
GSM/TM1;GSM/TM2;UMTS/TM1;LTE/TM1				
The report only show the bandwidth with the worst case.				



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5 Main Test Instruments

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	2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10
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	2022/11/23	2023/11/22
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
Wideband Radio	Anritsu	MT8000A	SUWI-01-34-02	2022/09/16	2023/09/15
Communication Test Ststion				2023/09/12	2024/09/11
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10



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		RSE Test S	ystem		
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	2023/02/07	2024/02/06
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2023/02/06	2024/02/05
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

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 %	
		± 3.13dB (9k -30MHz)	
7	Dedicted Emission	± 4.8dB (30M -1GHz)	
	Radiated Emission	± 4.8dB (1GHz to 18GHz)	
		± 4.80dB (Above 18GHz)	

accordance with the recommendations of ISO 17025 as following:

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 12
Appendix B.7	LTE Band 14
Appendix B.8	LTE Band 17
Appendix B.9	LTE Band 26(814-824)
Appendix B.10	LTE Band 26(824-849)
Appendix B.11	LTE Band 30
Appendix B.12	LTE Band 48
Appendix B.13	LTE Band 66
Appendix B.14	LTE Band 71
Appendix B.15	LTE CA_5B

---End of Report---



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