

Patrol 6, LLC

TEST REPORT

SCOPE OF WORK

FCC Testing – P1

REPORT NUMBER

260317073SZN-005

ISSUE DATE

22 April 2026

PAGES

26

DOCUMENT CONTROL NUMBER

FCC ID 22/24/27/90_a

© 2017 INTERTEK



FCC

RF Test Report

For**Patrol 6, LLC****Product Name: Body worn camera****Model Number: P1****FCC ID: 2BVFCP6-BC-V1****Report No: 260317073SZN-005**

Tested and Prepared by:



Draven Li
Sr. Project Engineer

Approved by:



Johnny Wang
Project Engineer
Date: 22 April 2026

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Intertek Testing Service Shenzhen Ltd. Longhua Branch

101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community GuanHu Subdistrict, LongHua District, Shenzhen, People's Republic of China

Tel: (86 755) 8601 6288 Fax: (86 755) 8601 6751

Table of Contents

1. Summary of Test Result	3
1.1 Band 5 Cellular Band (824-849MHz paired with 869-894MHz)	4
1.2 Band 2 PCS Band (1850-1910MHz paired with 1930-1990MHz)	4
1.3 Band 4 AWS Band(1710-1755MHz paired with 2110-2155MHz)	5
1.4 Band12 (699-716MHz paired with 729-746 MHz)	5
1.5 Band17 (704-716MHz paired with 734-746 MHz)	6
1.6 Band30 (2305-2315MHz paired with 2350-2360 MHz)	6
1.7 Band 66 AWS Band (1710-1780MHz paired with 2110-2180MHz).....	7
1.8 Band 71 (663-698MHz paired with 617-652MHz)	7
2. General Description	8
2.1 Product Description	8
2.2 Test Facility	8
2.3 Test Environment Condition	8
2.4 Sub-Assembly	8
2.5 Technical Specification	9
3. General Test Conditions/Configuration	12
3.1 Test Modes.....	12
3.2 Test Environment	12
3.3 Test Frequency	12
4. DESCRIPTION OF TESTS	16
4.1 Radiated Power and Radiated Spurious Emissions	16
4.2 Peak-Average Ratio	17
4.3 Occupied Bandwidth	18
4.4 Band Edge Compliance.....	18
4.5 Spurious and Harmonic Emissions at Antenna Terminal	19
4.6 Frequency Stability / Temperature Variation	20
5. Test Setups.....	21
5.1 Test Setup 1	21
5.2 Test Setup 2	21
5.3 Test Setup 3	22
5.4 Test Conditions	23
6. Main Test Instruments.....	25
7. Measurement Uncertainty.....	26
8. Appendixes	26

1. Summary of Test Result

Applicant:	Patrol 6, LLC
Address:	2843 E. Robin Lane Phoenix, AZ 85050 USA
Product name:	Body worn camera
Model Number:	P1
FCC ID:	2BVFCP6-BC-V1
Report number:	260317073SZN-001
Date of Test	17 March 2026 to 30 March 2026

The above equipment was tested by Intertek Testing Services Shenzhen Ltd. Longhua Branch. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI 63.26:2015 and KDB 971168 D01. This device is in compliance with FCC rules as following:

47 CFR FCC Part 02:2023

47 CFR FCC Part 22:2023

47 CFR FCC Part 24:2023

47 CFR FCC Part 27:2023

The test results of this report relate only to the tested sample identified in this report.

1.1 Band 5 Cellular Band (824-849MHz paired with 869-894MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913	FCC: ERP $\leq$ 7 W.	Appendix A	Pass
Peak-Average Ratio	--	--	Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Appendix G	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Appendix C	Pass
Band Edges Compliance	§2.1051, §22.917	$\leq$ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Appendix D	Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917	FCC: $\leq$ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Appendix E	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917	FCC: $\leq$ -13 dBm/100 kHz.	Appendix H	Pass
Frequency Stability	§2.1055, §22.355	$\leq$ $\pm$ 2.5ppm.	Appendix F	Pass
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

1.2 Band 2 PCS Band (1850-1910MHz paired with 1930-1990MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232	EIRP $\leq$ 2 W	Appendix A	Pass
Peak-Average Ratio	§2.1046, §24.232	Limit $\leq$ 13 dB	Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Appendix G	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Appendix C	Pass
Band Edges Compliance	§2.1051, §24.238	$\leq$ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Appendix D	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238	$\leq$ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Appendix E	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238	$\leq$ -13 dBm/1 MHz.	Appendix H	Pass
Frequency Stability	§2.1055, §24.235	$\leq$ $\pm$ 2.5 ppm.	Appendix F	Pass
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

1.3 Band 4 AWS Band(1710-1755MHz paired with 2110-2155MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)	EIRP ≤ 1 W	Appendix A	Pass
Peak-Average Ratio	§2.1046, §27.50(d)	Limit ≤ 13 dB	Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Appendix G	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Appendix C	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.	Appendix D	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.	Appendix E	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Appendix H	Pass
Frequency Stability	§2.1055, §27.54	$\leq \pm 2.5$ ppm.	Appendix F	Pass
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

1.4 Band12 (699-716MHz paired with 729-746 MHz)

Test Item	FCC Rule No	Requirements	Test Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	§27.50(c)	FCC: ERP ≤ 3 W.	Appendix A	Pass
Peak-Average Ratio	--	--	Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Appendix G	Pass
Bandwidth	§2.1047	OBW: No limit. EBW: No limit.	Appendix C	Pass
Band Edges Compliance	§2.1049,	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Appendix D	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Appendix E	Pass
Field Strength of Spurious Radiation	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Appendix H	Pass
Frequency Stability	§2.1053, §27.53(g)	$\leq \pm 2.5$ ppm.	Appendix F	Pass
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

1.5 Band17 (704-716MHz paired with 734-746 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	§27.50(c).	FCC: ERP ≤ 3 W.	Appendix A	Pass
Peak-Average Ratio	--	--	Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Appendix G	Pass
Bandwidth	§2.1047	OBW: No limit. EBW: No limit.	Appendix C	Pass
Band Edges Compliance	§2.1049	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Appendix D	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Appendix E	Pass
Field Strength of Spurious Radiation	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Appendix H	Pass
Frequency Stability	§2.1053, §27.53(g)	≤ ±2.5ppm.	Appendix F	Pass
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

1.6 Band30 (2305-2315MHz paired with 2350-2360 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	§27.50(h)(2)	EIRP ≤ 2 W	Appendix A	Pass
Peak-Average Ratio	--	--	Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Appendix G	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Appendix C	Pass
Band Edges Compliance	§2.1051, §27.53(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Appendix D	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Appendix E	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Appendix H	Pass
Frequency Stability	§2.1055, §27.54	≤ ±2.5ppm.	Appendix F	Pass
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

1.7 Band 66 AWS Band (1710-1780MHz paired with 2110-2180MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)	EIRP $\leq$ 1 W	Appendix A	Pass
Peak-Average Ratio	§2.1046, §27.50(d)	Limit $\leq$ 13 dB	Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Appendix G	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Appendix C	Pass
Band Edges Compliance	§2.1051, §27.53(h)	$\leq$ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Appendix D	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	$\leq$ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Appendix E	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	$\leq$ -13 dBm/1 MHz.	Appendix H	Pass
Frequency Stability	§2.1055, §27.54	$\leq$ $\pm$ 2.5 ppm.	Appendix F	Pass
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

1.8 Band 71 (663-698MHz paired with 617-652MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict (Note1)
Effective (Isotropic) Radiated Power Output Data	§27.50(c).	FCC: ERP $\leq$ 3 W.	Appendix A	Pass
Peak-Average Ratio	--	--	Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Appendix G	Pass
Bandwidth	§2.1047	OBW: No limit. EBW: No limit.	Appendix C	Pass
Band Edges Compliance	§2.1049	$\leq$ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Appendix D	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: $\leq$ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Appendix E	Pass
Field Strength of Spurious Radiation	§2.1051, §27.53(g)	FCC: $\leq$ -13 dBm/100 kHz.	Appendix H	Pass
Frequency Stability	§2.1053, §27.53(g)	$\leq$ $\pm$ 2.5ppm.	Appendix F	Pass
Note1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".				

2. General Description

2.1 Product Description

The equipment under test (EUT) is a Body worn camera operating in the LTE system. The LTE frequency band are Band 2/4/5/12/17/30/66/71, NFC function operating in 13.56MHz. The Body worn camera implements such functions as RF signal receiving/transmitting, LTE protocol. Externally it provides USIM card interface. The EUT is powered by DC 3.8V rechargeable battery or DC 5V/2A by adapter. For more detailed features description, please refer to the user's manual.

2.2 Test Facility

Company Name:	Intertek Testing Services Shenzhen Ltd. Longhua Branch
Address:	101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen, P.R. China
FCC Registration Number:	CN1188

2.3 Test Environment Condition

Ambient Temperature:	19.5 to 25 °C
Ambient Relative Humidity:	40 to 55 %
Atmospheric Pressure:	Not applicable

2.4 Sub-Assembly

Description	Manufacturer	Model No.
Laptop (Provided by Intertek)	DELL	Latitude 3480
Router (Provided by Intertek)	NETGEAR	Model: R7800
Adapter (Provided by Applicant)	Dongguan Kaisheng electronic technology co., LTD	Input: 100-240V~ 50/60Hz 0.3A Output: 5V=2A
Type-C Cable (Provided by Applicant)	N/A	Unshielded, Length 1.0m

2.5 Technical Specification

Characteristics	Description	
Radio System Type	LTE	
Supported Frequency Range	LTE BAND2	Transmission (TX): 1850 to 1910 MHz
		Receiving (RX): 1930 to 1990 MHz
	LTE BAND4	Transmission (TX): 1710 to 1755 MHz
		Receiving (RX): 2110 to 2155 MHz
	LTE BAND5	Transmission (TX): 824 to 849 MHz
		Receiving (RX): 869 to 894 MHz
	LTE BAND12	Transmission (TX): 699 to 716 MHz
		Receiving (RX): 729 to 746 MHz
	LTE BAND17	Transmission (TX): 704 to 716 MHz
		Receiving (RX): 734 to 746 MHz
TX and RX Antenna Ports	TX & RX port:	1
		0
	RX-only port:	1
Target TX Output Power	LTE BAND2: 25dBm	
	LTE BAND4: 25dBm	
	LTE BAND5: 25dBm	
	LTE BAND12: 25dBm	
	LTE BAND17: 25dBm	
	LTE BAND30: 25dBm	
	LTE BAND66: 25dBm	
	LTE BAND71: 25dBm	
Antenna Gain:	LTE BAND2: 3.03dBi	
	LTE BAND4: 2.9dBi	
	LTE BAND5: -1.11dBi	
	LTE BAND12: -8.78dBi	
	LTE BAND17: -8.78dBi	
	LTE BAND30: 2.45dBi	
	LTE BAND66: 2.9dBi	
	LTE BAND71: -9.42dBi	
Supported Channel Bandwidth	LTE band 2	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE band 4	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE band 5	1.4 MHz, 3 MHz, 5 MHz, 10 MHz
	LTE band 12	1.4 MHz, 3 MHz, 5 MHz, 10 MHz
	LTE band 17	5 MHz, 10 MHz
	LTE band 30	5 MHz, 10 MHz
	LTE band 66	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
	LTE band 71	5MHz, 10MHz, 15MHz, 20MHz

Characteristics	Description	
Designation of Emissions (Note: the necessary bandwidth of which is the worst value from the measured occupied bandwidths for each type of channel bandwidth configuration.)	LTE BAND2:	1M09G7D (1.4 MHz QPSK modulation), 1M09W7D (1.4 MHz 16QAM modulation) 2M70G7D (3 MHz QPSK modulation), 2M70W7D (3 MHz 16QAM modulation) 4M50G7D (5 MHz QPSK modulation), 4M51W7D (5 MHz 16QAM modulation) 8M96G7D (10 MHz QPSK modulation), 8M96W7D (10 MHz 16QAM modulation) 13M45G7D (15 MHz QPSK modulation), 13M43W7D (15 MHz 16QAM modulation) 17M92G7D (20 MHz QPSK modulation), 17M92W7D (20 MHz 16QAM modulation)
	LTE BAND4:	1M09G7D (1.4 MHz QPSK modulation), 1M09W7D (1.4 MHz 16QAM modulation) 2M70G7D (3 MHz QPSK modulation), 2M69W7D (3 MHz 16QAM modulation) 4M50G7D (5 MHz QPSK modulation), 4M50W7D (5 MHz 16QAM modulation) 8M96G7D (10 MHz QPSK modulation), 8M96W7D (10 MHz 16QAM modulation) 13M44G7D (15 MHz QPSK modulation), 13M43W7D (15 MHz 16QAM modulation) 17M91G7D (20 MHz QPSK modulation), 17M92W7D (20 MHz 16QAM modulation)
	LTE BAND5:	1M09G7D (1.4 MHz QPSK modulation), 1M09W7D (1.4 MHz 16QAM modulation) 2M70G7D (3 MHz QPSK modulation), 2M70W7D (3 MHz 16QAM modulation) 4M51G7D (5 MHz QPSK modulation), 4M51W7D (5 MHz 16QAM modulation) 8M97G7D (10 MHz QPSK modulation), 8M96W7D (10 MHz 16QAM modulation)
	LTE BAND12:	1M09G7D (1.4 MHz QPSK modulation), 1M09W7D (1.4 MHz 16QAM modulation) 2M70G7D (3 MHz QPSK modulation), 2M69W7D (3 MHz 16QAM modulation) 4M51G7D (5 MHz QPSK modulation), 4M51W7D (5 MHz 16QAM modulation) 8M97G7D (10 MHz QPSK modulation), 8M97W7D (10 MHz 16QAM modulation)
	LTE BAND17:	4M51G7D (5 MHz QPSK modulation), 4M52W7D (5 MHz 16QAM modulation) 8M99G7D (10 MHz QPSK modulation), 8M99W7D (10 MHz 16QAM modulation)
	LTE BAND30:	4M51G7D (5 MHz QPSK modulation), 4M52W7D (5 MHz 16QAM modulation) 8M99G7D (10 MHz QPSK modulation), 8M99W7D (10 MHz 16QAM modulation)
	LTE BAND66:	2M97G7D (1.4 MHz QPSK modulation), 2M97W7D (1.4 MHz 16QAM modulation) 2M70G7D (3 MHz QPSK modulation), 2M70W7D (3 MHz 16QAM modulation)

Characteristics	Description	
		4M50G7D (5 MHz QPSK modulation), 4M52W7D (5 MHz 16QAM modulation) 8M99G7D (10 MHz QPSK modulation), 8M99W7D (10 MHz 16QAM modulation) 13M48G7D (15 MHz QPSK modulation), 13M48W7D (15 MHz 16QAM modulation) 18M04G7D (20 MHz QPSK modulation), 18M04W7D (20 MHz 16QAM modulation)
	LTE BAND71:	4M51G7D (5 MHz QPSK modulation), 4M52W7D (5 MHz 16QAM modulation) 8M99G7D (10 MHz QPSK modulation), 8M99W7D (10 MHz 16QAM modulation) 13M48G7D (15 MHz QPSK modulation), 13M48W7D (15 MHz 16QAM modulation) 18M04G7D (20 MHz QPSK modulation), 18M04W7D (20 MHz 16QAM modulation)

3. General Test Conditions/Configuration

3.1 Test Modes

Test Mode	Test Modes Description
LTE/TM1	LTE system, QPSK modulation
LTE/TM2	LTE system, 16QAM modulation

3.2 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Voltage	VL	3.23V
	VN	3.8V
	VH	4.37V

NOTE: VL= lower extreme test voltage, VN= nominal voltage, VH= upper extreme test voltage
TN= normal temperature

3.3 Test Frequency

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

		1940 MHz	1960 MHz	1980 MHz
Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
LTE Band 4	TX(1.4M)	Channel 19957	Channel 20175	Channel 20393
		1710.7 MHz	1732.5 MHz	1754.3 MHz
	TX(3M)	Channel 19965	Channel 20175	Channel 20385
		1711.5 MHz	1732.5 MHz	1753.5 MHz
	TX(5M)	Channel 19975	Channel 20175	Channel 20375
		1712.5 MHz	1732.5 MHz	1752.5 MHz
	TX(10M)	Channel 20000	Channel 20175	Channel 20350
		1715 MHz	1732.5 MHz	1750 MHz
	TX(15M)	Channel 20025	Channel 20175	Channel 20325
		1717.5 MHz	1732.5 MHz	1747.5 MHz
	TX(20M)	Channel 20050	Channel 20175	Channel 20300
		1720 MHz	1732.5 MHz	1745 MHz
	RX(1.4M)	Channel 1975	Channel 2175	Channel 2375
		2112.5 MHz	2132.5MHz	2152.5 MHz
	RX(3M)	Channel 2000	Channel 2175	Channel 2350
		2115 MHz	2132.5MHz	2150 MHz
	RX(5M)	Channel 1975	Channel 2175	Channel 2375
		2112.5 MHz	2132.5MHz	2152.5 MHz
	RX(10M)	Channel 2000	Channel 2175	Channel 2350
		2115 MHz	2132.5MHz	2150 MHz
	RX(15M)	Channel 2025	Channel 2175	Channel 2325
		2117.5 MHz	2132.5MHz	2147.5 MHz
	RX(20M)	Channel 2050	Channel 2175	Channel 2300
		2120 MHz	2132.5MHz	2145 MHz
Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
LTE Band 5	TX(1.4M)	Channel 20407	Channel 20525	Channel 20643
		824.7 MHz	836.5 MHz	848.3 MHz
	TX(3M)	Channel 20415	Channel 20525	Channel 20635
		825.5 MHz	836.5 MHz	847.5 MHz
	TX(5M)	Channel 20425	Channel 20525	Channel 20625
		826.5 MHz	836.5 MHz	846.5 MHz
	TX(10M)	Channel 20450	Channel 20525	Channel 20600
		829 MHz	836.5 MHz	844 MHz
	RX(1.4M)	Channel 2407	Channel 2525	Channel 2643
		869.7 MHz	881.5 MHz	893.3 MHz
	RX (3M)	Channel 2415	Channel 2525	Channel 2635
		870.5 MHz	881.5 MHz	892.5 MHz
	RX(5M)	Channel 2425	Channel 2525	Channel 2625
		871.5 MHz	881.5 MHz	891.5 MHz
	RX (10M)	Channel 2450	Channel 2525	Channel 2600
		874 MHz	881.5 MHz	889 MHz
Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)

LTE Band 12	TX(1.4M)	Channel 23017	Channel 23095	Channel 23173
		699.7 MHz	707.5 MHz	715.3 MHz
	TX(3M)	Channel 23025	Channel 23095	Channel 23165
		700.5 MHz	707.5 MHz	714.5 MHz
	TX(5M)	Channel 23035	Channel 23095	Channel 23155
		701.5 MHz	707.5 MHz	713.5 MHz
	TX(10M)	Channel 23060	Channel 23095	Channel 23130
		704 MHz	707.5 MHz	711 MHz
	RX(1.4M)	Channel 5017	Channel 5095	Channel 5173
		729.7 MHz	737.5 MHz	745.3 MHz
	RX (3M)	Channel 5025	Channel 5095	Channel 5165
		730.5 MHz	737.5 MHz	744.5 MHz
Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
LTE Band 17	TX (5M)	Channel 23755	Channel 23790	Channel 23825
		706.5 MHz	710 MHz	713.5 MHz
	TX (10M)	Channel 23780	Channel 23790	Channel 23800
		709 MHz	710 MHz	711 MHz
	RX (5M)	Channel 5755	Channel 5790	Channel 5825
		736.5 MHz	740 MHz	743.5 MHz
	RX (10M)	Channel 5780	Channel 5790	Channel 5800
		739 MHz	740 MHz	741 MHz
Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
LTE Band 30	TX (5M)	Channel 27665	Channel 27710	Channel 27755
		2305.5 MHz	2310.0 MHz	2314.5 MHz
	TX (10M)	Channel 27670	Channel 27710	Channel 27750
		2306.0 MHz	2310.0 MHz	2314.0 MHz
	RX (5M)	Channel 9750	Channel 9820	Channel 9865
		2350.5 MHz	2355.0 MHz	2359.5 MHz
	RX (10M)	Channel 9780	Channel 9820	Channel 9860
		2351.0 MHz	2355.0 MHz	2359.0 MHz
Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
LTE Band 66	TX(1.4M)	Channel 131979	Channel 132322	Channel 132665
		1710.7 MHz	1745.0 MHz	1779.3 MHz
	TX(3M)	Channel 131987	Channel 132322	Channel 132657
		1711.5 MHz	1745.0 MHz	1778.5 MHz
	TX(5M)	Channel 131997	Channel 132322	Channel 132647
		1712.5 MHz	1745.0 MHz	1777.5 MHz
	TX(10M)	Channel 132022	Channel 132322	Channel 132622
		1715 MHz	1745.0 MHz	1775.0 MHz
Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)

	TX(20M)	1717.5 MHz	1745.0 MHz	1772.5 MHz
		Channel 132072	Channel 132322	Channel 132572
		1720 MHz	1745.0 MHz	1770.0 MHz
	RX(1.4M)	Channel 131979	Channel 132322	Channel 132665
		2110.7 MHz	2145 MHz	2179.3 MHz
	RX(3M)	Channel 131987	Channel 132322	Channel 132657
		2111.5 MHz	2145 MHz	2178.5 MHz
	RX(5M)	Channel 131997	Channel 132322	Channel 132647
		2112.5 MHz	2145 MHz	2177.5 MHz
	RX(10M)	Channel 132022	Channel 132322	Channel 132622
		2115 MHz	2145 MHz	2175 MHz
	RX(15M)	Channel 132047	Channel 132322	Channel 132597
2117.5 MHz		2145 MHz	2172.5 MHz	
RX(20M)	Channel 132072	Channel 132322	Channel 132572	
	2120 MHz	2145 MHz	2170 MHz	
Test Mode	TX / RX	RF Channel		
		Low (B)	Middle (M)	High (T)
LTE Band 71	TX (5M)	Channel 133147	Channel 133297	Channel 133447
		665.5 MHz	680.5 MHz	695.5 MHz
	TX (10M)	Channel 133172	Channel 133297	Channel 133422
		668 MHz	680.5 MHz	693 MHz
	TX (15M)	Channel 133197	Channel 133297	Channel 133397
		670.5 MHz	680.5 MHz	690.5 MHz
	TX (20M)	Channel 133222	Channel 133322	Channel 133372
		673 MHz	680.5 MHz	688 MHz
	RX (5M)	Channel 133147	Channel 133297	Channel 133447
		619.5 MHz	634.5 MHz	649.5 MHz
	RX (10M)	Channel 133172	Channel 133297	Channel 133422
		622 MHz	634.5 MHz	647 MHz
	RX (15M)	Channel 133197	Channel 133297	Channel 133397
		624.5 MHz	634.5 MHz	644.5 MHz
RX (20M)	Channel 133222	Channel 133322	Channel 133372	
	627 MHz	634.5 MHz	642 MHz	

4. DESCRIPTION OF TESTS

4.1 Radiated Power and Radiated Spurious Emissions

Radiated spurious emissions are investigated indoors in a semi-anechoic chamber to determine the frequencies producing the worst case emissions. Final measurements for radiated power and radiated spurious emissions are performed on the 3 meter OATS per the guidelines of ANSI/TIA-603-C-2004. The equipment under test was transmitting while connected to its integral antenna and is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer. Emissions are also investigated with the receive antenna horizontally and vertically polarized.

A portable or small unlicensed wireless device shall be placed on a non-metallic test fixture or other non-metallic support during testing. The supporting fixture shall permit orientation of the EUT in each of three orthogonal (x, y, z) axis positions such that emissions from the EUT are maximized. Measure the EUT maximum RF power and record the result.

A half-wave dipole is then substituted in place of the EUT. For emissions above 3GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT.

The power of the emission is calculated using the following formula:

$$P_d [\text{dBm}] = P_g [\text{dBm}] - \text{cable loss} [\text{dB}] + \text{antenna gain} [\text{dBd/dBi}]$$

Where, P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g [\text{dBm}] - \text{cable loss} [\text{dB}]$.

The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of $43 + 10\log_{10}(\text{Power} [\text{Watts}])$.

Test Procedures Used

KDB 971168 D01 v03r01 -Section 5.2 / 971168 D01 v03r01 -Section 5.8

ANSI C63.26 §5.2 / ANSI C63.26 §5.5/ ANSI C63.26 §6.4

Note: Reference test setup 3

4.2 Peak-Average Ratio

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.

Test Procedures Used

KDB 971168 D01 v03r01 -Section 5.7

ANSI C63.26 §5.2

Test Settings

1. The signal analyzer's CCDF measurement profile enabled
2. Frequency= carrier center frequency
3. Measurement BW > EBW of signal
4. for continuous transmissions, set to 1ms
5. Record the maximum PAPR level associated with a probability of 0.1%. Note: Reference test setup 1

4.3 Occupied Bandwidth

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 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.

Test Procedures Used

KDB 971168 D01 v03r01 -Section 4.3

ANSI C63.26 §5.3

Test Settings

1. SET RBW=1-5% of OBW
2. SET VBW $\geq 3 \times$ RBW
3. Detector: Peak
4. Trace mode= max hold.
5. Sweep= auto couple
6. Steps 1-5 were repeated after it is stable

Note: Reference test setup 1.

4.4 Band Edge Compliance

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 power must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log_{10} P$ dB.

Test Procedures Used

KDB 971168 D01 v03r01 -Section 6

ANSI C63.26 §5.7/ ANSI C63.26 §6.4

Test Settings

1. SET RBW $\geq 1\%$ of Emission BW.
2. SET VBW about three times of RBW
3. Detector: RMS
4. Trace mode= max hold.
5. Span= 2MHz

Note: Reference test setup 1.

4.5 Spurious and Harmonic Emissions at Antenna Terminal

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.

Test Procedures Used

KDB 971168 D01 v03r01 -Section 6

ANSI C63.26 §5.7/ ANSI C63.26 §6.4

Test Settings

1. 9kHz~150kHz, RBW = 1KHz, VBW $\geq 3 \times$ RBW,
150kHz~30MHz, RBW = 10KHz, VBW $\geq 3 \times$ RBW,
30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz.
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz.
2. Detector: Peak
3. Trace mode= max hold.

Note: Reference test setup 1.

4.6 Frequency Stability / Temperature Variation

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-C-2004. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -20°C to +55°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 -20°C to +55°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Procedures Used

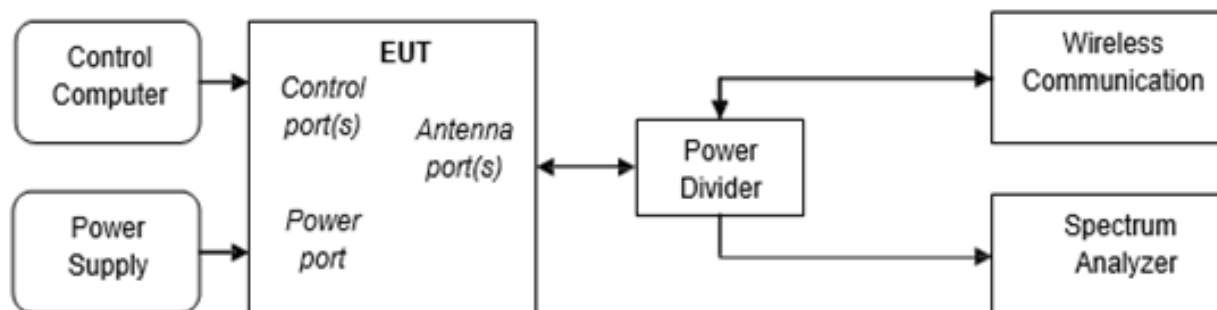
KDB 971168 D01 v03r01 -Section 9

ANSI C63.26 §5.6

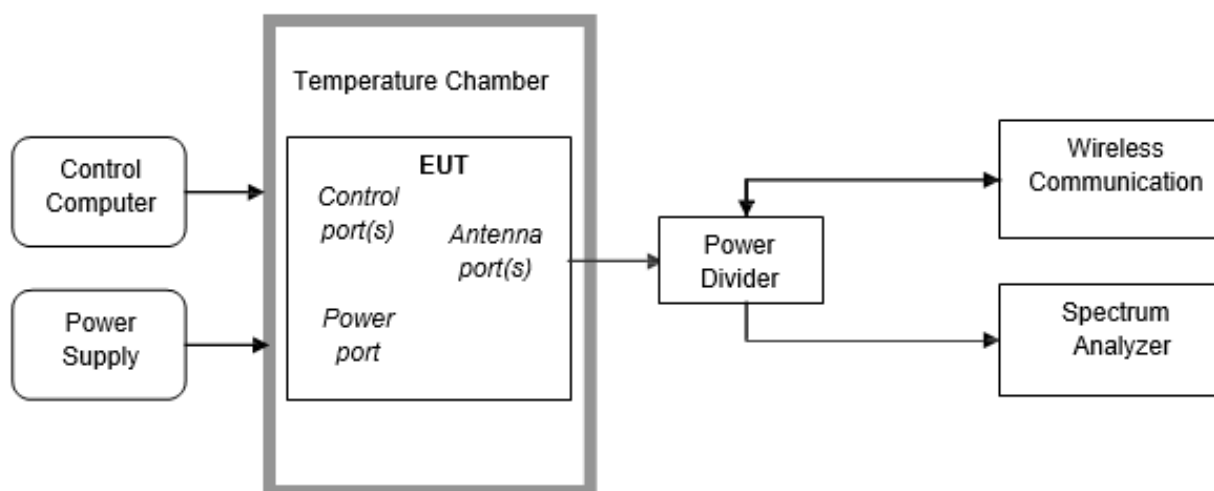
Note: Reference test setup 2.

5. Test Setups

5.1 Test Setup 1



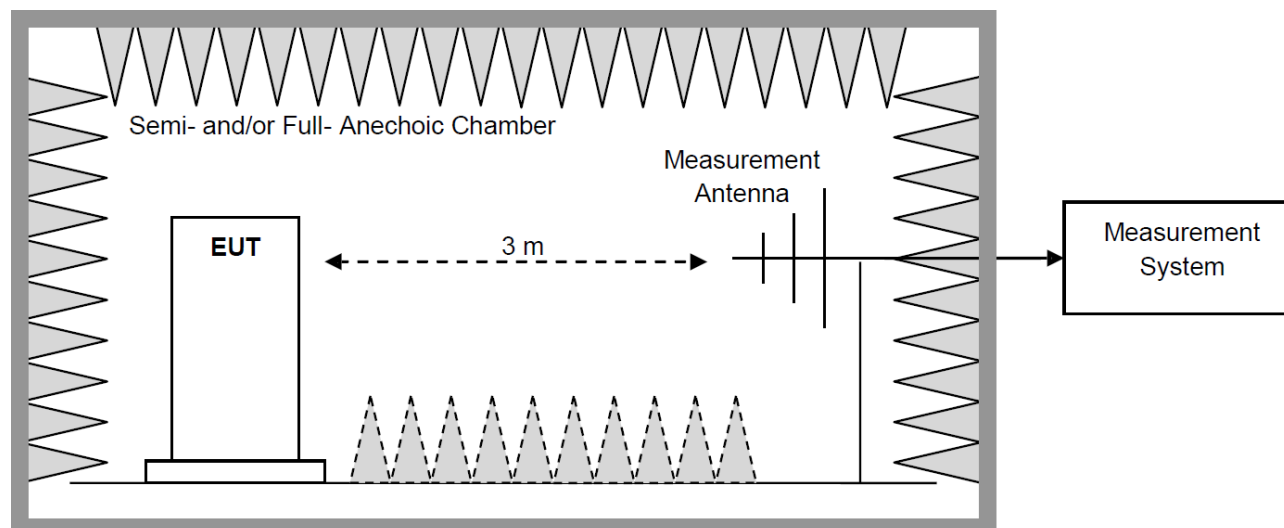
5.2 Test Setup 2



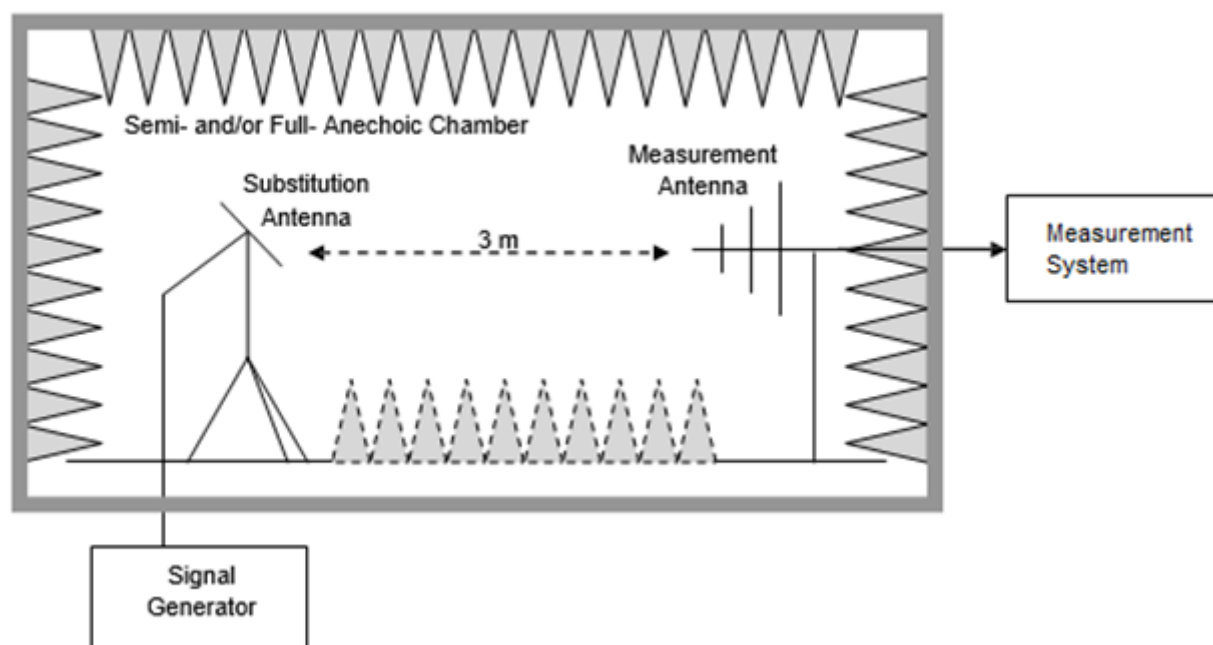
5.3 Test Setup 3

NOTE: Effective radiated power (ERP) and Equivalent Isotropic Radiated Power (EIRP) refers to the radiation power output of the EUT, assuming all emissions are radiated from half-wave dipole antennas.

5.3.1 Step 1: Pre-test



5.3.2 Step 2: Substitution method to verify the maximum ERP/EIRP



5.4 Test Conditions

Test Case		Test Conditions	
Transmit Output Power Data	Average Power, Total	Test Env.	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	LTE/TM2
	Average Power, Spectral Density (if required)	Test Env.	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	LTE/TM1, LTE/TM2
Peak-to-Average Ratio (if required)		Test Env.	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	LTE/TM1, LTE/TM2
Modulation Characteristics		Test Env.	Ambient Climate & Rated Voltage
		Test Setup	Test Setup 1
		RF Channels (TX)	M (L= low channel, M= middle channel, H= high channel)
		Test Mode	LTE/TM1, LTE/TM2
Bandwidth	Occupied Bandwidth	Test Env.	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	LTE/TM1, LTE/TM2
	Emission Bandwidth (if required)	Test Env.	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	LTE/TM1, LTE/TM2
Band Edges Compliance		Test Env.	Ambient Climate & Rated Voltage
		Test Setup	Test Setup 1
		RF Channels (TX)	L, H (L= low channel, M= middle channel, H= high channel)
		Test Mode	LTE/TM1, LTE/TM2
Spurious Emission at Antenna Terminals		Test Env.	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	LTE/TM1, LTE/TM2

Test Case	Test Conditions	
Field Strength of Spurious Radiation	Test Env.	Ambient Climate & Rated Voltage
	Test Setup	Test Setup 3
	Test Mode	LTE/TM1, LTE/TM2 NOTE: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.
	RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Frequency Stability	Test Env.	(1) -20 °C to +60 °C with step 10 °C at Rated Voltage; (2) VL, VN and VH of Rated Voltage at Ambient Climate.
	Test Setup	Test Setup 2
	RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
	Test Mode	LTE/TM1, LTE/TM2

6. Main Test Instruments

Main Test Equipment					
Equip No.	Equipment Name	Manufacturer	Model	Cal Date	Cal- Due
SZ065-08	Wideband Radio Communication Tester	R & S	CMW 500	2025-09-15	2026-09-15
SZ065-07	Wideband Radio Communication Tester	R & S	CMW 500	2025-04-21	2026-04-21
SZ056-06	Signal Analyzer	R&S	FSV 40	2025-12-01	2026-12-01
SZ062-10	RF Cable	Bedeia	RG 58	2025-11-01	2026-05-01
SZ056-08	Signal Analyzer	R&S	FSV 40	2025-12-01	2026-12-01
SZ185-03	EMI Receiver	R&S	ESR7	2025-04-13	2026-04-13
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	2024-05-05	2027-05-05
SZ061-13	BiConiLog Antenna	ETS	3142E	2025-05-29	2028-05-29
SZ061-08	Double-Ridged Waveguide Horn Antenna	ETS	3115	2024-09-13	2027-09-13
SZ181-08	Microwave System Amplifier	Agilent	83017A	2025-07-30	2026-07-30
SZ188-05	Anechoic Chamber	ETS	FACT 3-2.0	2025-06-18	2028-06-18
SZ062-23	RF Cable	RADIAL	SF104PE	2025-09-15	2026-09-15
SZ062-35	RF Cable	Rebes	A50-3.5M3.5M-8M	2025-09-15	2026-09-15
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	2025-04-21	2026-04-21

Software Information			
Test Item	Software Name	Manufacturer	Version
RSE	EMC32	R&S	V8.40.0
Conducted RF	JS1120 RF Test System	Shenzhen JS tonscond co., Ltd	2.6.9.0518

7. 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:

Test Item		Extended Uncertainty
Transmit Output Power Data	Power [dBm]	U = 0.42 dB
Bandwidth	Magnitude [%]	U = 0.12%
Band Edge Compliance	Disturbance Power [dBm]	U = 1.24 dB
Spurious Emissions, Conducted	Disturbance Power [dBm]	U = 1.78 dB
Field Strength of Spurious Radiation	ERP [dBm]	For 3 m Chamber: U = 4.86 dB (30 MHz to 26.5GHz)
Frequency Stability	Frequency Accuracy [ppm]	U = 0.012 ppm

8. Appendixes

Appendix No.	Description
260317073SZN-005_Appendix	Appendix for LTE

*****End of Report*****