



TEST REPORT

Reference No. : WTX20X05026072W-2
FCC ID : 2AL7V-2002A
IC ID : 22869-2002A
Applicant : Shenzhen Reo-link Digital Technology Co., Ltd
Address : 11th floor, Building C, Unisplendour Information Harbour, North High-Tech Zone, Nanshan District, Shenzhen, China, 518057
Manufacturer : SHENZHEN BAICHUAN SECURITY TECHNOLOGY CO., LTD.
Address : 2-4th Floor, Building 2, YuanLing Industrial Park, ShangWu, Shiyan Street, Bao'an District, Shenzhen, China
Product : IP Camera
Model(s) : Reolink Go PT
Brand Name : [reolink](http://reolink.com)
Standards : FCC Part 27, RSS-199 Issue 3
Date of Receipt sample : May.11, 2020
Date of Test : May.11, 2020 to May.27, 2020
Date of Issue : May.27, 2020
Test Result : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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2 Laboratories Introduction

Waltek Services (Shenzhen) Co., Ltd is a professional third-party testing and certification laboratory with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by ILAC (International Laboratory Accreditation Cooperation) member. A2LA (American Association for Laboratory Accreditation, the certification number is 4243.01) of USA, CNAS (China National Accreditation Service for Conformity Assessment, the registration number is L3110) of China. Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC (The Federal Communications Commission), CEC (California energy efficiency), ISED (Innovation, Science and Economic Development Canada). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as Intertek (ETL-SEMKO), TÜV Rheinland, TÜV SÜD, etc.



Waltek Services (Shenzhen) Co., Ltd is one of the largest and the most comprehensive third party testing laboratory in China. Our test capability covered four large fields: safety test. Electro Magnetic Compatibility (EMC), and energy performance, wireless radio. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

**Test Facility:****A. Accreditations for Conformity Assessment (International)**

Country/Region	Scope Covered By	Scope	Note
USA	ISO/IEC 17025	FCC ID \ DOC \ VOC	1
Canada		IC ID \ VOC	2
Japan		MIC-T \ MIC-R	-
Europe		EMCD \ RED	-
Taiwan		NCC	-
Hong Kong		OFCA	-
Australia		RCM	-
India		WPC	-
Thailand		NTC	-
Singapore		IDA	-
Note:			
1. FCC Designation No.: CN1201. Test Firm Registration No.: 523476.			
2. ISED Canada Registration No.: 7760A			

B. TCBs and Notify Bodies Recognized Testing Laboratory.

Recognized Testing Laboratory of ...	Notify body number
TUV Rheinland	Optional.
Intertek	
TUV SUD	
SGS	
Phoenix Testlab GmbH	0700
Element Materials Technology Warwick Ltd	0891
Timco Engineering, Inc.	1177
Eurofins Product Service GmbH	0681



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4 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTX20X05026 072W-1	2020-05-11	2020-05-11 to 2020-05-27	2020-05-27	original	-	Valid



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5 General Information

5.1 General Description of E.U.T.

Product:	IP Camera
Model(s):	Reolink Go PT
Model Description:	N/A
LTE Band(s):	FDD Band 7
Hardware Version:	/
Software Version:	/
Storage Location:	Internal Storage
Note:	/

5.2 Details of E.U.T.

Operation Frequency:	LTE Band 7: 2500-2570MHz
Max. RF output power:	LTE Band 7: 22.70dBm
Type of Modulation:	LTE: QPSK, 16QAM
Antenna installation:	LTE: External Antenna
Antenna Gain:	LTE Band 7 1.14dBi
Ratings:	DC 3.6V
Adapter1:	/

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5.3 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Support Band	Test Mode BW(MHz)	Channel Frequency	Channel Number
LTE Band 7	5	2502.5	20775
		2535	21100
		2567.5	21425
	10	2505	20800
		2535	21100
		2565	21400
	15	2507.5	20825
		2535	21100
		2562.5	21375
	20	2510	20850
		2535	21100
		2560	21350
Remark: All mode(s) were tested and the worst data was recorded.			

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6 Test Summary

Test Items	Test Requirement	Result
RF Output Power	FCC Part 27.50(h.2) (d.4) RSS-199 4.4	PASS
Peak-to-Average Ratio	FCC Part 27.50(d)	PASS
Bandwidth	FCC Part 27.53(a) RSS-GEN 6.7	PASS
Spurious Emissions at Antenna Terminal	FCC Part 27.53(h) (m)(4) RSS-199 4.5	PASS
Field Strength of Spurious Radiation	FCC Part 27.53(h) (m)(4) RSS-199 4.5	PASS
Out of band emission	FCC Part 27.53(h) (m)(4) RSS-199 4.5	PASS
Frequency Stability	FCC Part 27.54 RSS-199 4.3	PASS
Maximum Permissible Exposure (SAR)	FCC Part 1.1307,2.1091 RSS-102	PASS

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7 Equipment Used during Test

7.1 Equipments List

3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP	100091	2020-04-29	2021-04-28
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	2020-04-29	2021-04-28
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2020-04-29	2021-04-28
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2019-09-12	2020-09-11
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2020-04-09	2021-04-08
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2020-04-09	2021-04-08
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2020-04-13	2021-04-12
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	2020-04-13	2021-04-12
9	Signal Generator	R&S	SMR20	100046	2019-09-12	2020-09-11
10	Smart Antenna	SCHWARZBECK	HA08	-	2020-04-09	2021-04-08
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2020-04-13	2021-04-12
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2020-04-09	2021-04-08
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	2020-04-13	2021-04-12
4	Cable	HUBER+SUHNER	CBL2	525178	2020-04-13	2021-04-12
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	2019-09-12	2020-09-11
2.	Spectrum Analyzer	Agilent	N9020A	MY49100060	2019-09-12	2020-09-11
3.	Universal Radio Communication Tester	R&S	CMW 500	127818	2020-04-13	2021-04-12
4	Signal Analyzer	Agilent	N9010A	MY50520207	2019-09-12	2020-09-11



	(9k~26.5GHz)					
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7.2 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	± 3.64 dB(AC mains 150KHz~30MHz)
Radiated Spurious Emissions	± 5.08 dB (Bilog antenna 30M~1000MHz) ± 5.47 dB (Horn antenna 1000M~25000MHz)
Radio Frequency	$\pm 1 \times 10^{-7}$ Hz
RF Power	± 0.42 dB
RF Power Density	± 0.7 dB
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval: 95%. Confidence factor:k=2	

7.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.





8 RF OUTPUT POWER

Test Requirement:	FCC Part 2.1046, FCC Part 27.50(h.2) (d.4) RSS-199 4.4
Test Method:	TIA/EIA-603-E:2016; ANSI C63.26-2015 KDB 971168 D01 Power Meas License Digital Systems v03
Test Mode:	TX transmitting

8.1 EUT Operation

Operating Environment :

Temperature:	22.5 °C
Humidity:	52.1 % RH
Atmospheric Pressure:	101.2kPa

8.2 Test Procedure

Conducted method:

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.



Radiated method:

1. The setup of EUT is according with per TIA/EIA Standard 603E:2016.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.



8.3 Test Result

Conducted Power

Please refer to Appendix A

Test result: Pass

EIRP

FDD-LTE Band 7

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	20.49	<33.00	PASS
		H	14.21		
	MCH	V	20.36		PASS
		H	14.24		
	HCH	V	20.49		PASS
		H	14.23		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	20.39	<33.00	PASS
		H	14.18		
	MCH	V	20.47		PASS
		H	14.64		
	HCH	V	20.36		PASS
		H	14.05		
Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	20.41	<33.00	PASS
		H	12.78		
	MCH	V	19.31		PASS
		H	12.95		
	HCH	V	19.63		PASS
		H	12.14		
Channel Bandwidth: 20 MHz					



Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPS	LCH	V	20.17	<33.00	PASS
		H	12.74		
	MCH	V	20.36		PASS
		H	12.52		
	HCH	V	20.47		PASS
		H	12.03		



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9 Peak-to-Average Ratio

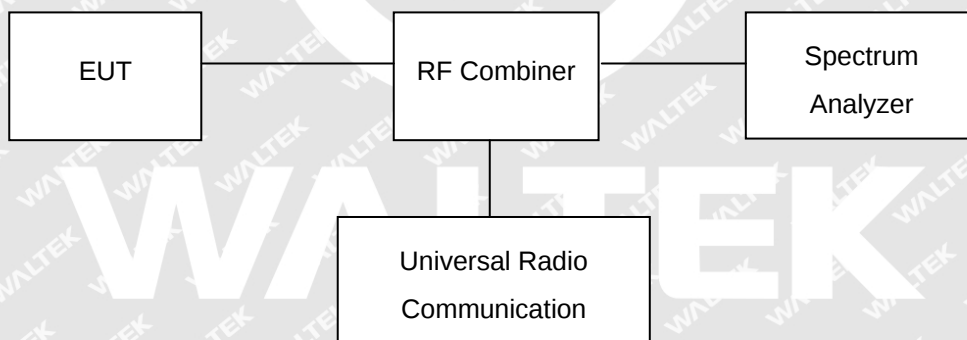
Test Requirement: FCC Part 27.50(d)
Test Method: ANSI C63.26-2015
Test Mode: TX transmitting

9.1 EUT Operation

Operating Environment :
Temperature: 22.5 °C
Humidity: 52.3% RH
Atmospheric Pressure: 101.2kPa

9.2 Test Procedure

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. Set EUT to transmit at maximum output power.
3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.



9.3 Test Result

Please refer to Appendix B

Test result: Pass



10 BANDWIDTH

Test Requirement: FCC Part 2.1049; RSS-GEN §6.7
Test Method: TIA/EIA-603-E:2016; ANSI C63.26-2015
KDB 971168 D01 Power Meas License Digital Systems v03
Test Mode: TX transmitting

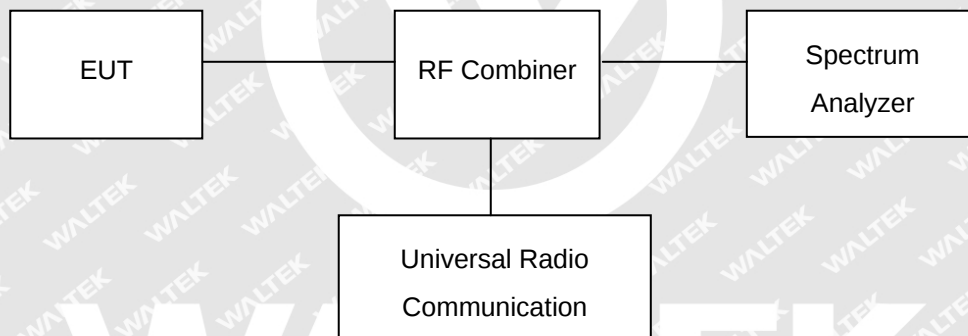
10.1 EUT Operation

Operating Environment :
Temperature: 22.5 °C
Humidity: 52.3% RH
Atmospheric Pressure: 101.2kPa

10.2 Test Procedure

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set in the range of 1 to 5 % of the anticipated OBW and the 26 dB & 99% bandwidth was recorded.





10.3 Test Result

Please refer to Appendix C

Test result: Pass



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11 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

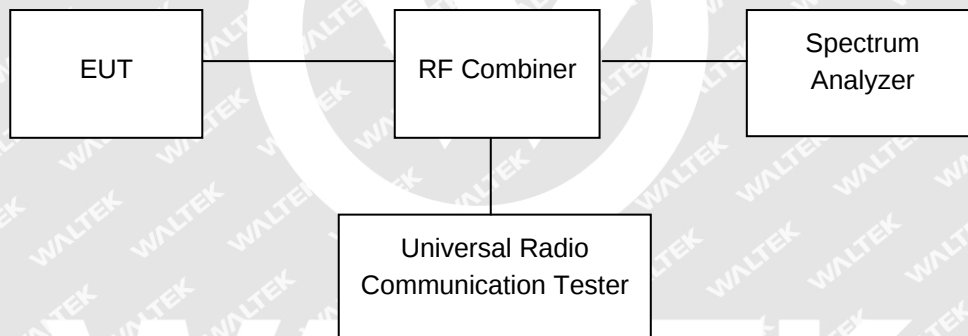
Test Requirement:	FCC Part 27.53(h) (m)(4); RSS-199 4.5
Test Method:	TIA/EIA-603-E:2016; ANSI C63.26-2015 KDB 971168 D01 Power Meas License Digital Systems v03
Test Mode:	TX transmitting

11.1 EUT Operation

Operating Environment :	
Temperature:	23.5 °C
Humidity:	52.1 % RH
Atmospheric Pressure:	101.3kPa

11.2 Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonics.



11.3 Test Result

PASS

LTE Band

Please refer to Appendix E: Conducted Spurious Emission

Test result: Pass



12 SPURIOUS RADIATED EMISSIONS

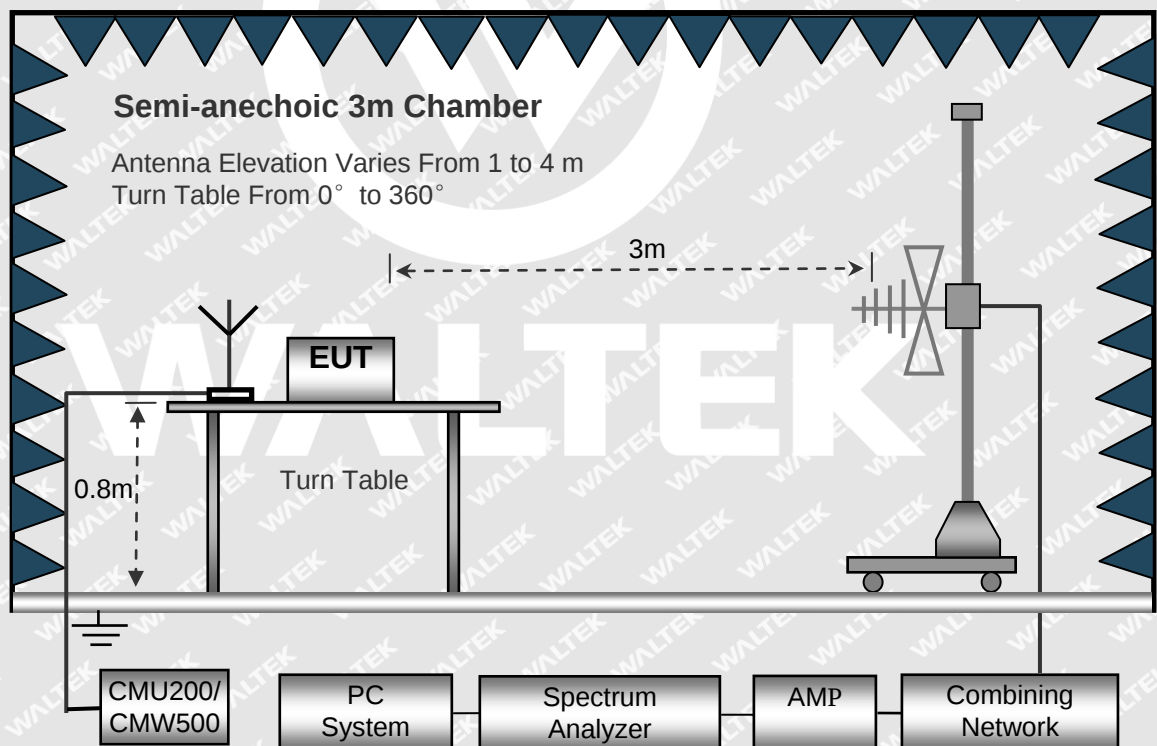
Test Requirement:	FCC Part 2.1053, FCC Part 27.53(h) (m)(4); RSS-199 4.5
Test Method:	TIA/EIA-603-E:2016 ; ANSI C63.26-2015 KDB 971168 D01 Power Meas License Digital Systems v03
Test Mode:	TX transmitting

12.1 EUT Operation

Operating Environment :	
Temperature:	23.5 °C
Humidity:	52.1 % RH
Atmospheric Pressure:	101.2kPa

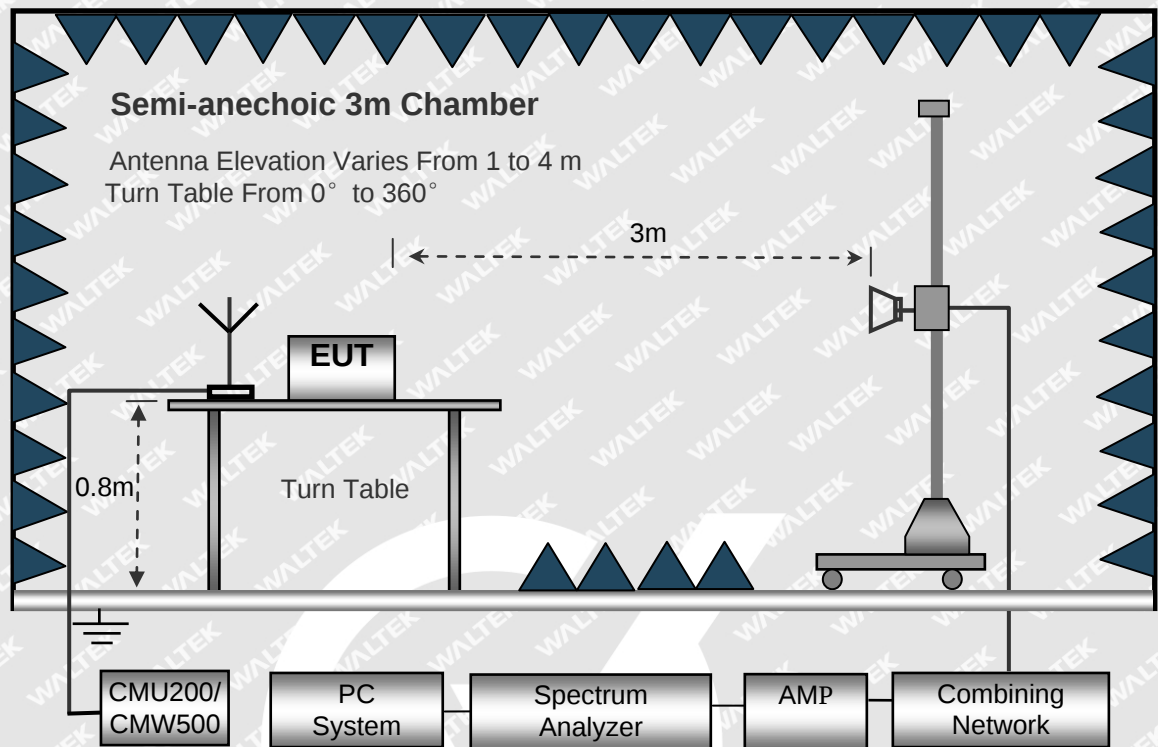
12.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site.
The test setup for emission measurement from 30 MHz to 1 GHz.





The test setup for emission measurement above 1 GHz.



12.3 Spectrum Analyzer Setup

30MHz ~ 1GHz

Sweep Speed Auto
Detector PK
Resolution Bandwidth..... 100kHz
Video Bandwidth..... 300kHz

Above 1GHz

Sweep Speed Auto
Detector PK
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 3MHz
Detector Ave.
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 10Hz



12.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from 30MHz up to the tenth harmonic of the highest fundamental frequency.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the Z position. So the data shown was the Z position only.
7. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.
Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) – the absolute level
Spurious attenuation limit in dB = 43 + 10 Log10 (power out in Watts)
8. Repeat above procedures until the measurements for all frequencies are completed.

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12.5 Summary of Test Results

Remark: Test performed from 30MHz to 10th harmonics with low/middle/high channels, only the worst data were recorded.

LTE Band 7

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Result	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE BAND 7 Channel 20775										
224.89	42.98	134	1.5	H	-69.87	0.15	0	-70.02	-25	-45.02
224.89	36.38	165	1.5	V	-72.28	0.15	0	-72.43	-25	-47.43
5005	66.78	165	1.5	H	-39.88	2.79	12.7	-29.97	-25	-4.97
5005	69.47	136	1.5	V	-41.65	2.79	12.7	-31.74	-25	-6.74
7507.5	73.03	203	1.5	H	-35.75	3.12	11.5	-27.37	-25	-2.37
7507.5	65.9	154	1.5	V	-41.72	3.12	11.5	-33.34	-25	-8.34
LTE BAND 7 Channel 21100										
223.68	40.59	132	1.5	H	-69.71	0.15	0	-69.86	-25	-44.86
223.68	36.25	168	1.5	V	-74.22	0.15	0	-74.37	-25	-49.37
5070	65.77	164	1.5	H	-40.98	2.37	12.5	-30.85	-25	-5.85
5070	67.43	135	1.5	V	-42.91	2.37	12.5	-32.78	-25	-7.78
7605	71.87	201	1.5	H	-36.93	3.12	11.5	-28.55	-25	-3.55
7605	65.22	155	1.5	V	-43.14	3.12	11.5	-34.76	-25	-9.76
LTE BAND 7 Channel 21425										
225.74	38.37	136	1.5	H	-70.37	0.15	0	-70.52	-25	-45.52
225.74	36.23	161	1.5	V	-74.49	0.15	0	-74.64	-25	-49.64
5135	65.14	167	1.5	H	-40.38	2.37	12.5	-30.25	-25	-5.25
5135	65.29	133	1.5	V	-44.4	2.37	12.5	-34.27	-25	-9.27
7702.5	66	201	1.5	H	-39	3.12	11.5	-30.62	-25	-5.62
7702.5	67.75	161	1.5	V	-41.33	3.12	11.5	-32.95	-25	-7.95

Note: 1) Absolute Level = SG Level - Cable loss + Antenna Gain

2) Margin = Absolute Level - Limit



13 Band Edge Measurement

Test Requirement:	FCC Part 2.1051, FCC Part 27.53(h) (m)(4);, RSS-199 4.5
Test Method:	TIA/EIA-603-E:2016; ANSI C63.26-2015 KDB 971168 D01 Power Meas License Digital Systems v03
Test Mode:	TX transmitting

13.1 EUT Operation

Operating Environment :	
Temperature:	23.5 °C
Humidity:	52.3 % RH
Atmospheric Pressure:	101.3kPa

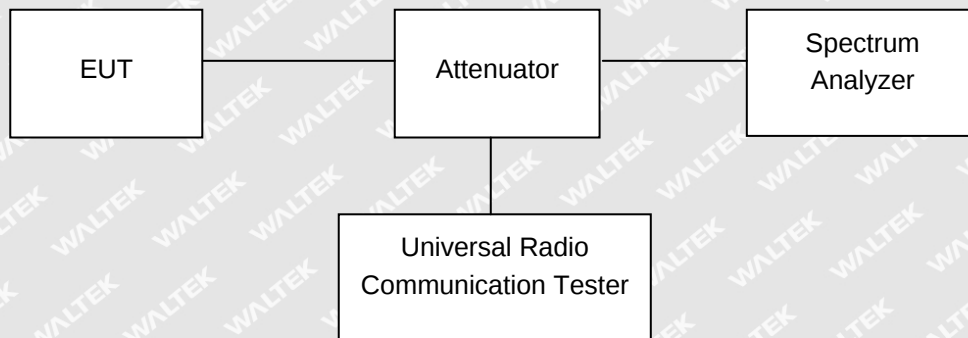
13.2 Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

According to FCC Part 27.53(h), Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to FCC Part 27.53(m)(4), For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

The center of the spectrum analyzer was set to block edge frequency



13.3 Test Result

Please refer to Appendix D: Band Edge

Test result: Pass



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14 FREQUENCY STABILITY

Test Requirement:	FCC Part 2.1055, FCC Part 27.54; RSS-199 4.3
Test Method:	TIA/EIA-603-E:2016; ANSI C63.26-2015 KDB 971168 D01 Power Meas License Digital Systems v03
Test Mode:	TX transmitting

14.1 EUT Operation

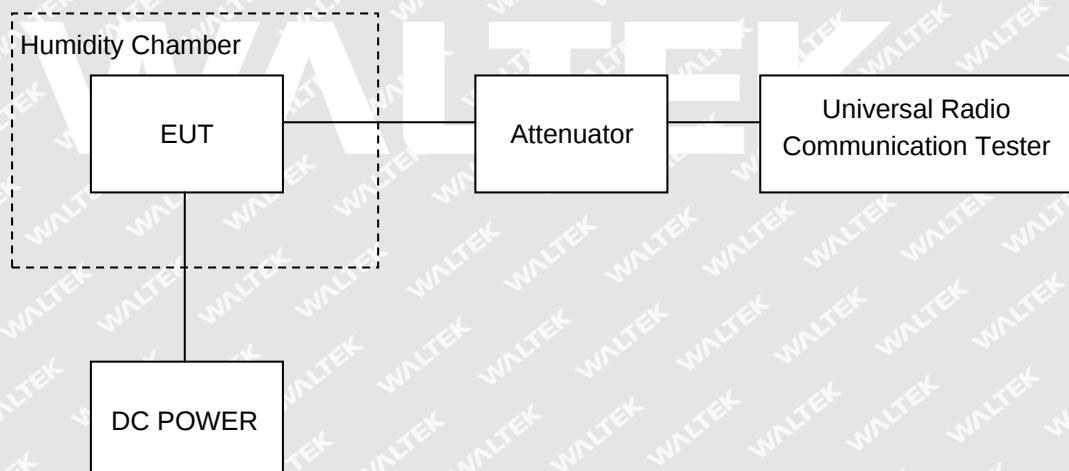
Operating Environment :	
Temperature:	22.9 °C
Humidity:	52.0 % RH
Atmospheric Pressure:	101.3kPa

14.2 Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.





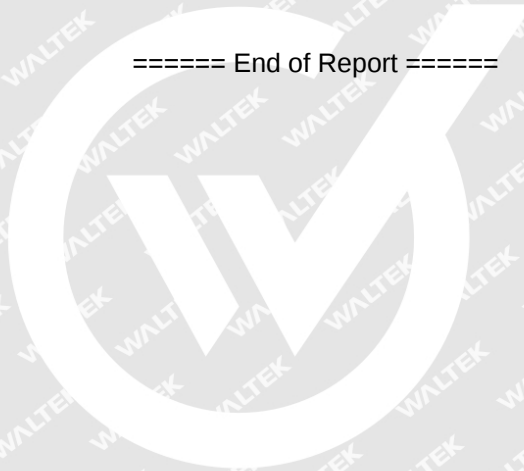
14.3 Test Result

Note: 1.Normal Voltage NV=DC3.6V; Low Voltage LV=DC3.2V;High Voltage HV=DC4.0V

Please refer to Appendix F: Frequency Stability

Test result: Pass

===== End of Report =====



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