

TECHNICAL REPORT



Report No: TW2011042-03E
File reference No: January 16, 2021

Applicant: Quetel Wireless Solutions Co., Ltd

Product: LTE Module

Model No: EC25-AF, EC25-AF-MINIPCIE

Brand Name: Quetel

Test Standards: FCC Part 2 and Part 27

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 2 and Part 27 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: January 16, 2021

**Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is
subject to withdrawal at**

SHENZHEN TIMEWAY TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with “Quality Law of People’s Republic of China” Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone, Futian District,Shenzhen, Guangdong China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Quectel Wireless Solutions Co., Ltd
Address: 7th Floor, Hongye Building, No.1801 Hongmei Road, Cuhui District, Shanghai 200233, China
Telephone: --
Fax: --

1.3 Description of EUT

Product: LTE Module
Manufacturer: Quectel Wireless Solutions Co., Ltd
Address: 7th Floor, Hongye Building, No.1801 Hongmei Road, Cuhui District, Shanghai 200233, China
Brand Name: Quectel
Model Number: EC25-AF, EC25-AF-MINIPCIE
IMEI: EC25=AF: 866834040000767
EC25-AF MINIPCIE: 866834040002375
Hardware Version: R1.0
Software Version: EC25AFFAR07A02M4G
Rating: EUT installed in a Body Worn Camera that powered by a DC3.8V 3200mAh Li-ion battery.
Antenna: FPC Antenna with maximum gain 3.2dBi
Test modes: LTE Band 4/12/13/66/71
Moddulation: LTE: QPSK, 16QAM
LTE Category: 4
Maximum
E.I.R.P/E.R.P
LTE Band 4: 25.22dBm
LTE Band 12: 19.57dBm
LTE Band 13: 22.75dBm
LTE Band 66: 26.59dBm
LTE Band 17: 21.85dBm

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Frequency range	Mode	Tx (MHz)	Rx (MHz)
	LTE Band 4:	1710-1755	2110-2155
	LTE Band 12:	699-716	729-746
	LTE Band 13:	777-787	746-756
	LTE Band 66:	1710-1780	2110-2200
	LTE Band 71:	663-698	617-652

Note:1. the information of the EUT is declared by the manufacturer

2. EUT used in a a Body Worn Camera, whose model name is BioAX and that is manufactured by Audax Global Solutions Ltd.

1.4 Submitted Sample: 2 Samples

1.5 Test Duration: 2020-11-03 ~ 2021-01-15

1.6 Test Uncertainty

Spurious Radiated Emissions below 1GHz Uncertainty =4.7dB

Spurious Radiated Emissions above 1GHz Uncertainty =6.0dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

2.0 Test Equipment

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22

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Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic	--	--	N/A	2020-07-06	2021-07-05
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2020-01-16	2021-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2020-06-23	2021-06-22
RF Cable	Zhengdi	7m	--	2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05
Wideband Radio Communication Test Set	ROHDE&SCHW ARZ	CMW500	147376	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2018-07-09	2021-07-08

2.1 Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Pass* (Please refer to SAR Report)
Effective Isotropic Radiated Power	Part 27.50(d)(4)/(b)(10)/ (c)(10)/ (h)(2)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 27.53(h)/(c)(2)	Pass

Note: This is a C2PC test report based on original FCC ID: XMR201808EC25AF. In the new applicaiton, a FPC antenna is used, while a dipole antenna was used in the original application. And also, the WCDMA Band II and IV is not enable by the software.

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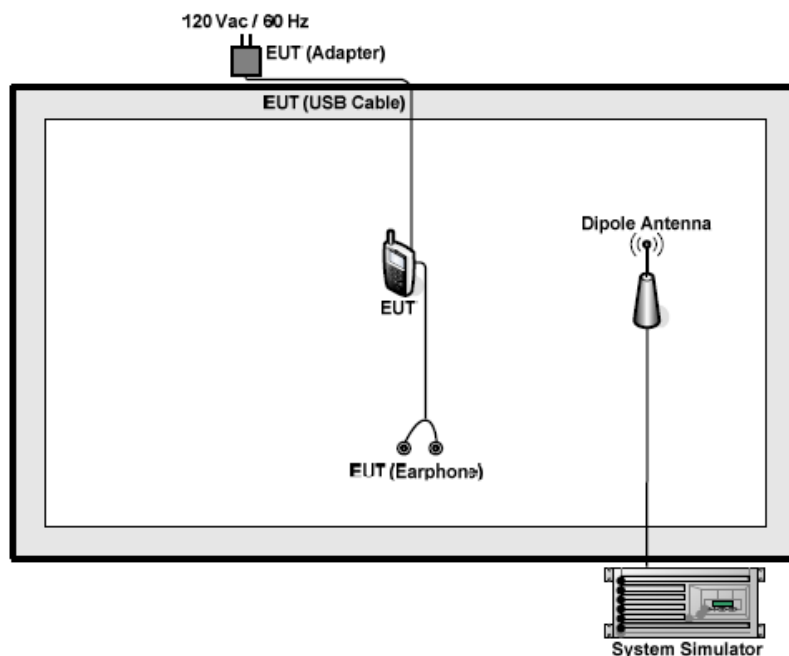
3 System test configuration

3.1 Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes		
Band	Radiated	Conducted
LTE Band 4	QPSK and 16QAM link	QPSK and 16QAM link
LTE Band 12	QPSK and 16QAM link	QPSK and 16QAM link
LTE Band 13	QPSK and 16QAM link	QPSK and 16QAM link
LTE Band 66	QPSK and 16QAM link	QPSK and 16QAM link
LTE Band 71	QPSK and 16QAM link	QPSK and 16QAM link

3.2 Configuration of Tested System



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4.0 Effective Isotropic Radiated Power

Ambient	Temperature	Relative humidity	Pressure	condition
	23°C ~25°C	45%~50%	101.5kPa	

Methods of Measurement

The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI/TIA-603-E (2016).

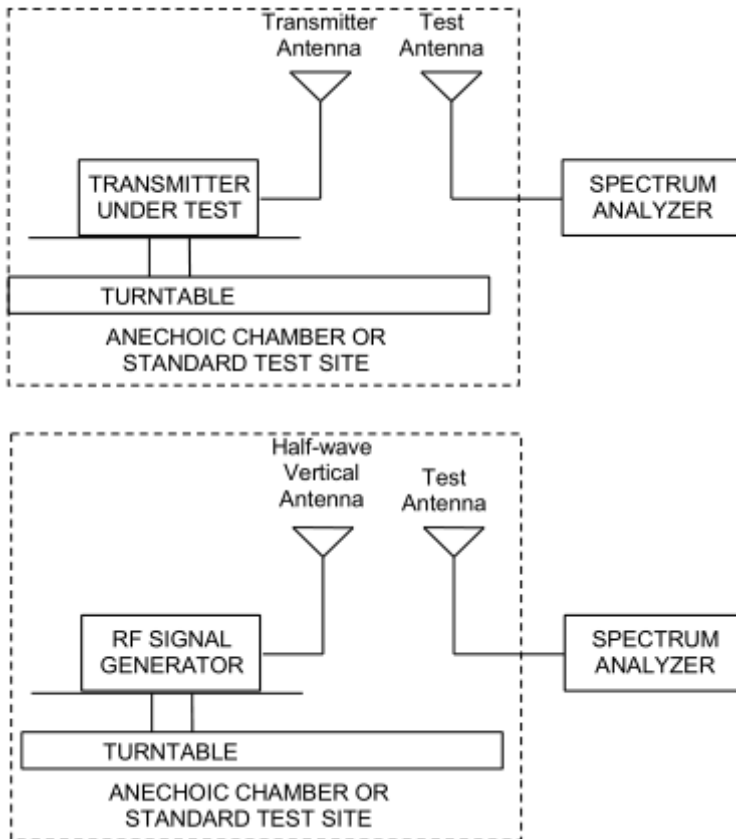
- a) Connect the equipment as illustrated. Mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer specified mounting surface located on a non-conducting rotating platform of a RF anechoic chamber (preferred) or a standard radiation site.
- b) Key the transmitter, then rotate the EUT 360° azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment. (Note: several batteries may be needed to offset the effect of battery voltage droop, which should not exceed 5% of the manufactured specified battery voltage during transmission).
- c) Replace the transmitter under test with a vertically polarized half-wave dipole (or an antenna whose gain is known relative to an ideal half-wave dipole). The center of the antenna should be at the same location as the center of the antenna under test.
- d) Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading. $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$
- e) Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation: $ERP \text{ (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$
- f) The maximum ERP is the maximum value determined in the preceding step.
- g) When calculating ERP, in addition to knowing the antenna radiation and matching characteristics, it is necessary to know the loss values of all elements (e.g.transmission line attenuation, mismatches, filters, combiners) interposed between the point where transmitter output power is measured, and the point where power is applied to the antenna. ERP can then be calculated as follows:
 $EIRP \text{ (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBd)}$
where: dBd refers to gain relative to an ideal dipole.
 $EIRP \text{ (dBm)} = \text{ERP (dBm)} + 2.15 \text{ (dB.)}$

Using the maximum output power configuration.

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Test setup



The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

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Limits

Rule Part 27.50(b) (10) specifies that "Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805- 806 MHz bands are limited to 3 watts ERP"

Rule Part 27.50(c) (10) specifies that "Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP"

Rule Part 27.50(d) (4) specifies that "Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP."

Part 27.50(b)(10) Limit	$\leq 3 \text{ W (34.77 dBm)}$
Part 27.50(c)(10) Limit	$\leq 3 \text{ W (34.77 dBm)}$
Part 27.50(d)(4) Limit	$\leq 1 \text{ W (30 dBm)}$

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 1.19 \text{ dB}$

Test Results:

The measurement is performed for both of horizontal and vertical antenna Polarization, and only the data of worst mode is recorded in this report.

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LTE Band 4						
bandwidth	Channel	Frequency (MHz)	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
1.4 MHz (QPSK)	Low	1710.7	Horizontal	25.22	30	Pass
	Mid	1732.5	Horizontal	24.96	30	Pass
	High	1754.3	Horizontal	24.39	30	Pass
3 MHz (QPSK)	Low	1711.5	Horizontal	24.92	30	Pass
	Mid	1732.5	Horizontal	24.69	30	Pass
	High	1753.5	Horizontal	24.35	30	Pass
5 MHz (QPSK)	Low	1712.5	Horizontal	25.03	30	Pass
	Mid	1732.5	Horizontal	24.85	30	Pass
	High	1752.5	Horizontal	24.12	30	Pass
10 MHz (QPSK)	Low	1715	Horizontal	24.70	30	Pass
	Mid	1732.5	Horizontal	24.68	30	Pass
	High	1750	Horizontal	24.85	30	Pass
15 MHz (QPSK)	Low	1717.5	Horizontal	25.03	30	Pass
	Mid	1732.5	Horizontal	24.79	30	Pass
	High	1747.5	Horizontal	24.66	30	Pass
20 MHz (QPSK)	Low	1720	Horizontal	23.62	30	Pass
	Mid	1732.5	Horizontal	23.52	30	Pass
	High	1745	Horizontal	24.68	30	Pass
1.4 MHz (16QAM)	Low	1710.7	Horizontal	24.56	30	Pass
	Mid	1732.5	Horizontal	24.97	30	Pass
	High	1754.3	Horizontal	24.02	30	Pass
3 MHz (16QAM)	Low	1711.5	Horizontal	24.33	30	Pass
	Mid	1732.5	Horizontal	23.90	30	Pass
	High	1753.5	Horizontal	23.82	30	Pass
5 MHz (16QAM)	Low	1712.5	Horizontal	24.63	30	Pass
	Mid	1732.5	Horizontal	24.68	30	Pass
	High	1752.5	Horizontal	23.96	30	Pass
10 MHz (16QAM)	Low	1715	Horizontal	23.12	30	Pass
	Mid	1732.5	Horizontal	24.15	30	Pass
	High	1750	Horizontal	24.48	30	Pass
15 MHz (16QAM)	Low	1717.5	Horizontal	24.33	30	Pass
	Mid	1732.5	Horizontal	24.35	30	Pass
	High	1747.5	Horizontal	24.12	30	Pass

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20 MHz (16QAM)	Low	1720	Horizontal	24.34	30	Pass
	Mid	1732.5	Horizontal	23.97	30	Pass
	High	1745	Horizontal	24.46	30	Pass

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LTE Band 12						
bandwidth	Channel	Frequency (MHz)	Polarization	ERP (dBm)	Limit (dBm)	Conclusion
1.4 MHz (QPSK)	Low	699.7	Horizontal	18.10	34.77	Pass
	Mid	707.5	Horizontal	19.43	34.77	Pass
	High	715.3	Horizontal	19.35	34.77	Pass
3 MHz (QPSK)	Low	700.5	Horizontal	18.71	34.77	Pass
	Mid	707.5	Horizontal	19.07	34.77	Pass
	High	714.5	Horizontal	19.30	34.77	Pass
5 MHz (QPSK)	Low	701.5	Horizontal	18.25	34.77	Pass
	Mid	707.5	Horizontal	19.17	34.77	Pass
	High	713.5	Horizontal	19.57	34.77	Pass
10 MHz (QPSK)	Low	704	Horizontal	18.33	34.77	Pass
	Mid	707.5	Horizontal	18.46	34.77	Pass
	High	711	Horizontal	18.95	34.77	Pass
1.4 MHz (16QAM)	Low	699.7	Horizontal	17.82	34.77	Pass
	Mid	707.5	Horizontal	18.95	34.77	Pass
	High	715.3	Horizontal	19.09	34.77	Pass
3 MHz (16QAM)	Low	700.5	Horizontal	18.31	34.77	Pass
	Mid	707.5	Horizontal	18.70	34.77	Pass
	High	714.5	Horizontal	19.05	34.77	Pass
5 MHz (16QAM)	Low	701.5	Horizontal	18.01	34.77	Pass
	Mid	707.5	Horizontal	19.06	34.77	Pass
	High	713.5	Horizontal	19.52	34.77	Pass
10 MHz (16QAM)	Low	704	Horizontal	17.69	34.77	Pass
	Mid	707.5	Horizontal	17.82	34.77	Pass
	High	711	Horizontal	18.43	34.77	Pass

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LTE Band 13						
bandwidth	Channel	Frequency (MHz)	Polarization	ERP (dBm)	Limit (dBm)	Conclusion
5 MHz (QPSK)	Low	779.5	Horizontal	22.33	34.77	Pass
	Mid	782	Horizontal	22.37	34.77	Pass
	High	784.5	Horizontal	22.49	34.77	Pass
10 MHz (QPSK)	Mid	782	Horizontal	22.75	34.77	Pass
5 MHz (16QAM)	Low	779.5	Horizontal	21.79	34.77	Pass
	Mid	782	Horizontal	21.98	34.77	Pass
	High	784.5	Horizontal	21.90	34.77	Pass
10 MHz (16QAM)	Mid	782	Horizontal	22.37	34.77	Pass

LTE Band 66						
bandwidth	Channel	Frequency (MHz)	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
1.4 MHz (QPSK)	Low	1710.70	Horizontal	26.25	30	Pass
	Mid	1745.00	Horizontal	26.19	30	Pass
	High	1779.30	Horizontal	25.13	30	Pass
3 MHz (QPSK)	Low	1711.50	Horizontal	26.59	30	Pass
	Mid	1745.00	Horizontal	26.12	30	Pass
	High	1778.50	Horizontal	25.08	30	Pass
5 MHz (QPSK)	Low	1712.50	Horizontal	26.04	30	Pass
	Mid	1745.00	Horizontal	25.93	30	Pass
	High	1777.50	Horizontal	25.09	30	Pass
10 MHz (QPSK)	Low	1715.00	Horizontal	26.32	30	Pass
	Mid	1745.00	Horizontal	26.41	30	Pass
	High	1775.00	Horizontal	25.20	30	Pass
15 MHz (QPSK)	Low	1717.50	Horizontal	26.07	30	Pass
	Mid	1745.00	Horizontal	26.25	30	Pass
	High	1772.50	Horizontal	25.50	30	Pass
20 MHz (QPSK)	Low	1720.00	Horizontal	26.10	30	Pass
	Mid	1745.00	Horizontal	26.15	30	Pass
	High	1770.00	Horizontal	25.40	30	Pass
1.4 MHz	Low	1710.70	Horizontal	25.61	30	Pass

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(16QAM)	Mid	1745.00	Horizontal	25.32	30	Pass
	High	1779.30	Horizontal	24.65	30	Pass
3 MHz (16QAM)	Low	1711.50	Horizontal	26.03	30	Pass
	Mid	1745.00	Horizontal	25.31	30	Pass
	High	1778.50	Horizontal	24.53	30	Pass
5 MHz (16QAM)	Low	1712.50	Horizontal	25.27	30	Pass
	Mid	1745.00	Horizontal	25.30	30	Pass
	High	1777.50	Horizontal	24.46	30	Pass
10 MHz (16QAM)	Low	1715.00	Horizontal	25.76	30	Pass
	Mid	1745.00	Horizontal	25.61	30	Pass
	High	1775.00	Horizontal	24.64	30	Pass
15 MHz (16QAM)	Low	1717.50	Horizontal	25.75	30	Pass
	Mid	1745.00	Horizontal	26.12	30	Pass
	High	1772.50	Horizontal	25.34	30	Pass
20 MHz (16QAM)	Low	1720.00	Horizontal	25.96	30	Pass
	Mid	1745.00	Horizontal	25.77	30	Pass
	High	1770.00	Horizontal	24.90	30	Pass

LTE Band 71						
bandwidth	Channel	Frequency (MHz)	Polarization	IRP (dBm)	Limit (dBm)	Conclusion
5 MHz (QPSK)	Low	665.5	Horizontal	20.45	34.77	Pass
	Mid	680.5	Horizontal	21.85	34.77	Pass
	High	695.5	Horizontal	21.67	34.77	Pass
10 MHz (QPSK)	Low	668	Horizontal	20.27	34.77	Pass
	Mid	680.5	Horizontal	21.52	34.77	Pass
	High	693	Horizontal	21.23	34.77	Pass
15 MHz (QPSK)	Low	670.5	Horizontal	20.41	34.77	Pass
	Mid	680.5	Horizontal	20.89	34.77	Pass
	High	690.5	Horizontal	21.59	34.77	Pass
20 MHz (QPSK)	Low	673	Horizontal	20.52	34.77	Pass
	Mid	683	Horizontal	21.78	34.77	Pass
	High	688	Horizontal	21.63	34.77	Pass
5 MHz (16QAM)	Low	665.5	Horizontal	20.78	34.77	Pass
	Mid	680.5	Horizontal	21.37	34.77	Pass
	High	695.5	Horizontal	21.18	34.77	Pass
10 MHz (16QAM)	Low	668	Horizontal	19.75	34.77	Pass
	Mid	680.5	Horizontal	20.83	34.77	Pass

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	High	693	Horizontal	20.79	34.77	Pass
15 MHz (16QAM)	Low	670.5	Horizontal	19.78	34.77	Pass
	Mid	680.5	Horizontal	20.44	34.77	Pass
	High	690.5	Horizontal	21.02	34.77	Pass
20 MHz (16QAM)	Low	673	Horizontal	19.99	34.77	Pass
	Mid	683	Horizontal	21.05	34.77	Pass
	High	688	Horizontal	21.01	34.77	Pass

Note: 1.EIRP=E.R.P+2.15

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5.0 Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

1. The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI/TIA-603-E (2016).
 2. The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarization and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
 3. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
 4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (Pr).
 5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
 6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl), the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
 7. The measurement results are obtained as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$

The measurement results are amend as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
 8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$.
- The modulation mode and RB allocation refer to section 5.1, using the maximum output power

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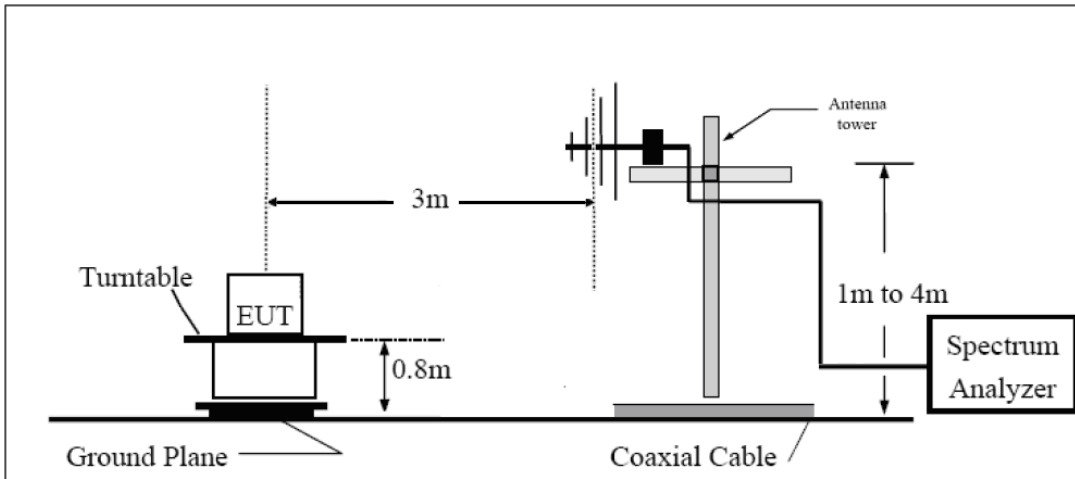
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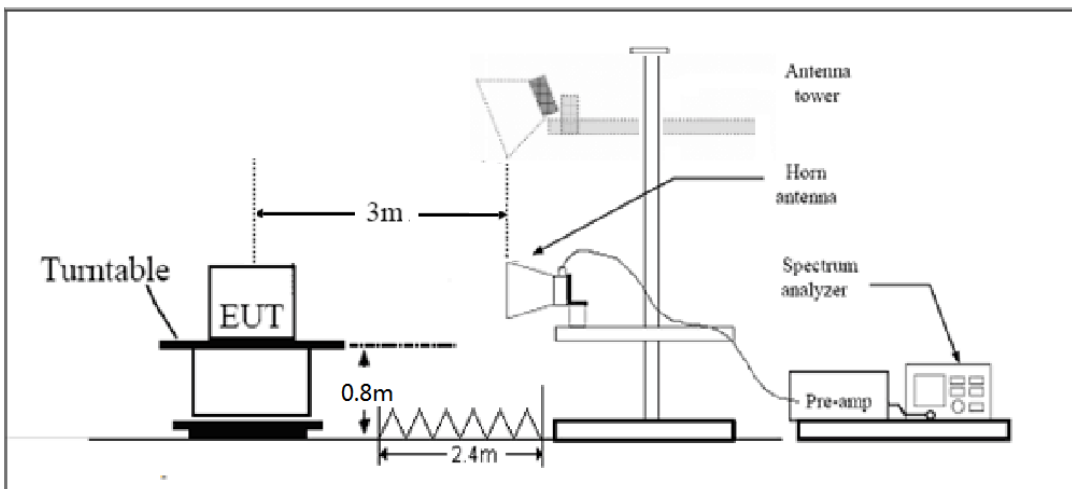
configuration.

Test setup

30MHz~~~ 1GHz



Above 1GHz



The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

Limits

Rule Part 27.53(h) specifies that "for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780MHz, 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

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transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB..”

Rule Part 27.53 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Rule Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Part 27.53 (a)/(h)/(g) Limit	-13 dBm
Part 27.53(f) Limit	Limit out of the band 1559-1610 MHz
	Limit in the band 1559-1610 MHz

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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.

Test Result

Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

LTE Band 4 QPSK 1.4MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3421.4	Horizontal	-48.55	-13.00
3	5131.1	Horizontal	-39.62	-13.00
4	6842.8	Horizontal	-31.06	-13.00
5	8553.5	Horizontal	-32.70	-13.00
6	10264.2	Horizontal	-44.69	-13.00
7	11974.9	Horizontal	-43.92	-13.00
8	13685.6	Horizontal	-41.30	-13.00
9	15396.3	Horizontal	-44.28	-13.00
10	17107.0	Horizontal	-39.51	-13.00

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LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3465	Horizontal	-56.18	-13.00
3	5197.5	Horizontal	-45.22	-13.00
4	6930	Horizontal	-33.96	-13.00
5	8662.5	Horizontal	-35.21	-13.00
6	10395	Horizontal	-45.10	-13.00
7	12127.5	Horizontal	44.09	-13.00
8	13860	Horizontal	-41.27	-13.00
9	15592.5	Horizontal	-43.86	-13.00
10	17325	Horizontal	-41.07	-13.00

LTE Band 4 QPSK 1.4MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3508.6	Horizontal	-52.35	-13.00
3	5262.9	Horizontal	-48.82	-13.00
4	70172.2	Horizontal	-37.08	-13.00
5	8771.5	Horizontal	-36.29	-13.00
6	10525.8	Horizontal	-44.46	-13.00
7	12280.1	Horizontal	-43.28	-13.00
8	14034.4	Horizontal	-42.61	-13.00
9	15788.7	Horizontal	-43.75	-13.00
10	17543.0	Horizontal	-40.61	-13.00

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LTE Band 4 QPSK 5MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3425.0	Horizontal	-52.69	-13.00
3	5137.5	Horizontal	-44.32	-13.00
4	6850.0	Horizontal	-37.03	-13.00
5	8562.5	Horizontal	-38.34	-13.00
6	10275.0	Horizontal	-45.21	-13.00
7	11987.5	Horizontal	44.13	-13.00
8	13700.0	Horizontal	-42.65	-13.00
9	15412.5	Horizontal	-43.86	-13.00
10	17125.0	Horizontal	-40.33	-13.00

LTE Band 4 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3465	Horizontal	-56.31	-13.00
3	5197.5	Horizontal	-50.12	-13.00
4	6930.0	Horizontal	-40.65	-13.00
5	8662.5	Horizontal	-41.48	-13.00
6	10395.0	Horizontal	-44.70	-13.00
7	12127.5	Horizontal	-43.83	-13.00
8	13860.0	Horizontal	-41.39	-13.00
9	15592.5	Horizontal	-45.18	-13.00
10	17325.0	Horizontal	-40.27	-13.00

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LTE Band 4 QPSK 5MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3505	Horizontal	-54.19	-13.00
3	5257.5	Horizontal	-49.36	-13.00
4	7010.0	Horizontal	-38.70	-13.00
5	8762.5	Horizontal	-36.67	-13.00
6	10515.0	Horizontal	-43.52	-13.00
7	12267.5	Horizontal	-43.04	-13.00
8	14020.0	Horizontal	-41.23	-13.00
9	15772.5	Horizontal	-43.60	-13.00
10	17525.0	Horizontal	-41.16	-13.00

LTE Band 4 QPSK 20MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3440.0	Horizontal	-48.50	-13.00
3	5160.0	Horizontal	-39.65	-13.00
4	6880.0	Horizontal	-31.38	-13.00
5	8600.0	Horizontal	-33.65	-13.00
6	10320.0	Horizontal	-45.07	-13.00
7	12040.0	Horizontal	-43.22	-13.00
8	13760.0	Horizontal	-41.09	-13.00
9	15480.0	Horizontal	-43.87	-13.00
10	17200.0	Horizontal	-40.06	-13.00

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LTE Band 4 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3465.0	Horizontal	-54.19	-13.00
3	5197.5	Horizontal	-40.88	-13.00
4	6930.0	Horizontal	-30.72	-13.00
5	8662.5	Horizontal	-32.17	-13.00
6	10395.0	Horizontal	-44.33	-13.00
7	12127.5	Horizontal	-43.92	-13.00
8	13860.0	Horizontal	-42.37	-13.00
9	15592.5	Horizontal	-44.61	-13.00
10	17325.0	Horizontal	-41.12	-13.00

LTE Band 4 QPSK 20MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3490.0	Horizontal	-54.51	-13.00
3	5235.0	Horizontal	-44.23	-13.00
4	6980.0	Horizontal	-35.87	-13.00
5	8725.0	Horizontal	-36.09	-13.00
6	10470.0	Horizontal	-43.92	-13.00
7	12215.0	Horizontal	-43.52	-13.00
8	13960.0	Horizontal	-41.60	-13.00
9	15705.0	Horizontal	-43.58	-13.00
10	17450.0	Horizontal	-39.77	-13.00

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LTE Band 12 QPSK 1.4MHz CH- Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1399.4	Horizontal	-58.23	-13.00
3	2099.1	Horizontal	-56.12	-13.00
4	2798.8	Horizontal	-50.33	-13.00
5	3498.5	Horizontal	-49.79	-13.00
6	4198.2	Horizontal	-55.23	-13.00
7	4897.9	Horizontal	-53.07	-13.00
8	5597.6	Horizontal	-52.35	-13.00
9	6297.3	Horizontal	-50.27	-13.00
10	6997.0	Horizontal	-48.90	-13.00

LTE Band 12 QPSK 1.4MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1415.0	Horizontal	-59.66	-13.00
3	2122.5	Horizontal	-55.72	-13.00
4	2830.0	Horizontal	-54.08	-13.00
5	3537.5	Horizontal	-56.63	-13.00
6	4245.0	Horizontal	-55.21	-13.00
7	4952.5	Horizontal	-53.07	-13.00
8	5660.0	Horizontal	-52.01	-13.00
9	6367.5	Horizontal	-51.66	-13.00
10	7075.0	Horizontal	-48.39	-13.00

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LTE Band 12 QPSK 1.4MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1430.6	Horizontal	-59.76	-13.00
3	2145.9	Horizontal	-55.12	-13.00
4	2861.2	Horizontal	-50.06	-13.00
5	3576.5	Horizontal	-53.32	-13.00
6	4291.8	Horizontal	-54.15	-13.00
7	5007.1	Horizontal	-51.86	-13.00
8	5722.4	Horizontal	-51.60	-13.00
9	6437.7	Horizontal	-51.55	-13.00
10	7153.0	Horizontal	-46.39	-13.00

LTE Band 12 QPSK 5MHz CH- Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1403.0	Horizontal	-58.83	-13.00
3	2104.5	Horizontal	-56.56	-13.00
4	2806.0	Horizontal	-49.37	-13.00
5	3507.5	Horizontal	-55.08	-13.00
6	4209.0	Horizontal	-54.21	-13.00
7	4910.5	Horizontal	-52.38	-13.00
8	5612.0	Horizontal	-52.25	-13.00
9	6313.5	Horizontal	-50.79	-13.00
10	7015.0	Horizontal	-49.37	-13.00

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LTE Band 12 QPSK 5MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1415.0	Horizontal	-59.75	-13.00
3	2122.5	Horizontal	-57.32	-13.00
4	2830.0	Horizontal	-52.61	-13.00
5	3537.5	Horizontal	-56.93	-13.00
6	4245.0	Horizontal	-55.21	-13.00
7	4952.5	Horizontal	-52.90	-13.00
8	5660.0	Horizontal	-52.63	-13.00
9	6367.5	Horizontal	-50.76	-13.00
10	7075.0	Horizontal	-49.35	-13.00

LTE Band 12 QPSK 5MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1427.0	Horizontal	-59.72	-13.00
3	2140.5	Horizontal	-55.64	-13.00
4	2854.0	Horizontal	-48.60	-13.00
5	3567.5	Horizontal	-55.23	-13.00
6	4281.0	Horizontal	-54.65	-13.00
7	4994.5	Horizontal	-53.62	-13.00
8	5708.0	Horizontal	-52.19	-13.00
9	6421.5	Horizontal	-52.29	-13.00
10	7135.0	Horizontal	-47.40	-13.00

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LTE Band 12 QPSK 10MHz CH- Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1408.0	Horizontal	-59.23	-13.00
3	2112.0	Horizontal	-57.38	-13.00
4	2816.0	Horizontal	-49.02	-13.00
5	3520.0	Horizontal	-48.04	-13.00
6	4224.0	Horizontal	-55.43	-13.00
7	4928.0	Horizontal	-55.08	-13.00
8	5632.0	Horizontal	-53.43	-13.00
9	6336.0	Horizontal	-51.96	-13.00
10	7040.0	Horizontal	-49.11	-13.00

LTE Band 12 QPSK 10MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1415.0	Horizontal	-59.37	-13.00
3	2122.5	Horizontal	-56.38	-13.00
4	2830.0	Horizontal	-52.70	-13.00
5	3537.5	Horizontal	-49.66	-13.00
6	4245.0	Horizontal	-55.63	-13.00
7	4952.5	Horizontal	-52.34	-13.00
8	5660.0	Horizontal	-54.15	-13.00
9	6367.5	Horizontal	-51.09	-13.00
10	7075.0	Horizontal	-48.06	-13.00

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LTE Band 12 QPSK 10MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1422.0	Horizontal	-59.71	-13.00
3	2133.0	Horizontal	-57.36	-13.00
4	2844.0	Horizontal	-54.52	-13.00
5	3555.0	Horizontal	-57.08	-13.00
6	4266.0	Horizontal	-56.30	-13.00
7	4977.0	Horizontal	-53.63	-13.00
8	5688.0	Horizontal	-53.95	-13.00
9	6399.0	Horizontal	-50.88	-13.00
10	7110.0	Horizontal	-47.65	-13.00

LTE Band 13 QPSK 5MHz CH- Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1559.0	Horizontal	-59.61	-40.00
3	2338.5	Horizontal	-52.30	-13.00
4	3118.0	Horizontal	-54.52	-13.00
5	3897.5	Horizontal	-50.19	-13.00
6	4677.0	Horizontal	-54.43	-13.00
7	5456.5	Horizontal	-47.34	-13.00
8	6236.0	Horizontal	-51.26	-13.00
9	7015.5	Horizontal	-48.63	-13.00
10	7795.0	Horizontal	-48.29	-13.00

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LTE Band 13 QPSK 5MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1564.0	Horizontal	-59.85	-40.00
3	2346.0	Horizontal	-53.56	-13.00
4	3128.0	Horizontal	-55.61	-13.00
5	3910.0	Horizontal	-52.33	-13.00
6	4692.0	Horizontal	-52.97	-13.00
7	5474.0	Horizontal	-46.13	-13.00
8	6256.0	Horizontal	-50.75	-13.00
9	7038.0	Horizontal	-48.15	-13.00
10	7820.0	Horizontal	-48.32	-13.00

LTE Band 13 QPSK 5MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1569.0	Horizontal	-59.83	-40.00
3	2353.5	Horizontal	-52.69	-13.00
4	3138.0	Horizontal	-57.13	-13.00
5	3922.5	Horizontal	-51.87	-13.00
6	4707.0	Horizontal	-54.32	-13.00
7	5491.5	Horizontal	-50.14	-13.00
8	6276.0	Horizontal	-52.63	-13.00
9	7060.5	Horizontal	-48.19	-13.00
10	7845.0	Horizontal	-47.57	-13.00

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LTE Band 13 QPSK 10MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1555.3	Horizontal	-59.67	-40.00
3	2346.0	Horizontal	-50.28	-13.00
4	3128.0	Horizontal	-53.98	-13.00
5	3910.0	Horizontal	-51.27	-13.00
6	4692.0	Horizontal	-53.47	-13.00
7	5474.0	Horizontal	-50.22	-13.00
8	6256.0	Horizontal	-51.68	-13.00
9	7038.0	Horizontal	-48.50	-13.00
10	7820.0	Horizontal	-48.16	-13.00

LTE Band 66 QPSK 1.4MHz CH- Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3421.4	Horizontal	-47.51	-13.00
3	5131.1	Horizontal	-41.23	-13.00
4	6842.8	Horizontal	-31.65	-13.00
5	8553.5	Horizontal	-32.81	-13.00
6	10264.2	Horizontal	-44.53	-13.00
7	11974.9	Horizontal	-43.37	-13.00
8	13685.6	Horizontal	-42.64	-13.00
9	15396.3	Horizontal	-44.17	-13.00
10	17107	Horizontal	-39.27	-13.00

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LTE Band 66 QPSK 1.4MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3490.0	Horizontal	-48.91	-13.00
3	5235.0	Horizontal	-44.25	-13.00
4	6980.0	Horizontal	-38.10	-13.00
5	8725.0	Horizontal	-34.19	-13.00
6	10470	Horizontal	-44.53	-13.00
7	12215.0	Horizontal	-43.75	-13.00
8	13860	Horizontal	-41.28	-13.00
9	15592.5	Horizontal	-44.34	-13.00
10	17450	Horizontal	-41.48	-13.00

LTE Band 66 QPSK 1.4MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3558.6	Horizontal	-47.23	-13.00
3	5337.9	Horizontal	-46.59	-13.00
4	7117.2	Horizontal	-29.18	-13.00
5	8896.5	Horizontal	-30.31	-13.00
6	10675.8	Horizontal	-44.67	-13.00
7	12455.1	Horizontal	-43.55	-13.00
8	14234.4	Horizontal	-42.29	-13.00
9	16013.7	Horizontal	-45.15	-13.00
10	17793	Horizontal	-41.50	-13.00

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LTE Band 66 QPSK 5MHz CH- Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3425	Horizontal	-47.08	-13.00
3	5137.5	Horizontal	-40.27	-13.00
4	6850	Horizontal	-30.81	-13.00
5	8562.5	Horizontal	-32.13	-13.00
6	10275	Horizontal	-45.21	-13.00
7	11987.5	Horizontal	-43.49	-13.00
8	13700	Horizontal	-43.88	-13.00
9	15412.5	Horizontal	-42.95	-13.00
10	17125	Horizontal	-41.16	-13.00

LTE Band 66 QPSK 5MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3490.0	Horizontal	-50.32	-13.00
3	5235.0	Horizontal	-43.61	-13.00
4	6980.0	Horizontal	-36.43	-13.00
5	8725.0	Horizontal	-34.87	-13.00
6	10470.0	Horizontal	-43.68	-13.00
7	12215.0	Horizontal	-43.45	-13.00
8	13960.0	Horizontal	-41.56	-13.00
9	15705.0	Horizontal	-44.39	-13.00
10	17450.0	Horizontal	-40.08	-13.00

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LTE Band 66 QPSK 5MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3555.0	Horizontal	-47.04	-13.00
3	5332.5	Horizontal	-46.31	-13.00
4	7110.0	Horizontal	-28.22	-13.00
5	8887.5	Horizontal	-29.07	-13.00
6	10665.0	Horizontal	-43.53	-13.00
7	12442.5	Horizontal	-43.62	-13.00
8	14220.0	Horizontal	-41.82	-13.00
9	15997.5	Horizontal	-45.33	-13.00
10	17775.0	Horizontal	-42.25	-13.00

LTE Band 66 QPSK 10MHz CH- Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3430.0	Horizontal	-47.59	-13.00
3	5145.0	Horizontal	-41.66	-13.00
4	6860	Horizontal	-30.57	-13.00
5	8575	Horizontal	-33.19	-13.00
6	10290	Horizontal	-45.25	-13.00
7	12005	Horizontal	-43.38	-13.00
8	13720	Horizontal	-42.13	-13.00
9	15435	Horizontal	-43.81	-13.00
10	17150	Horizontal	-40.43	-13.00

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LTE Band 66 QPSK 10MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3490	Horizontal	-50.53	-13.00
3	5235	Horizontal	-43.75	-13.00
4	6980	Horizontal	-36.71	-13.00
5	8725	Horizontal	-31.86	-13.00
6	10470	Horizontal	-45.56	-13.00
7	12215	Horizontal	-43.49	-13.00
8	13960	Horizontal	-41.58	-13.00
9	15705	Horizontal	-45.34	-13.00
10	17450	Horizontal	-40.12	-13.00

LTE Band 66 QPSK 10MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3550	Horizontal	-47.01	-13.00
3	5325	Horizontal	-45.30	-13.00
4	7100	Horizontal	-29.85	-13.00
5	8875	Horizontal	-30.06	-13.00
6	10650	Horizontal	-45.28	-13.00
7	12425	Horizontal	-45.11	-13.00
8	14200	Horizontal	-42.93	-13.00
9	15975	Horizontal	-43.82	-13.00
10	17750	Horizontal	-41.48	-13.00

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LTE Band 66 QPSK 20MHz CH- Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3440	Horizontal	-45.21	-13.00
3	5160	Horizontal	-53.85	-13.00
4	6880	Horizontal	-49.23	-13.00
5	8600	Horizontal	-47.07	-13.00
6	10320	Horizontal	-45.83	-13.00
7	12040	Horizontal	-43.46	-13.00
8	13760	Horizontal	-41.73	-13.00
9	15480	Horizontal	-45.76	-13.00
10	17200	Horizontal	-40.89	-13.00

LTE Band 66 QPSK 20MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3490	Horizontal	-45.33	-13.00
3	5235	Horizontal	-52.39	-13.00
4	6980	Horizontal	-49.04	-13.00
5	8725	Horizontal	-48.12	-13.00
6	10470	Horizontal	-45.51	-13.00
7	12215	Horizontal	-43.75	-13.00
8	13960	Horizontal	-41.64	-13.00
9	15705	Horizontal	-45.43	-13.00
10	17450	Horizontal	-40.65	-13.00

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LTE Band 66 QPSK 20MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)
2	3540	Horizontal	-45.43	-13.00
3	5310	Horizontal	-52.86	-13.00
4	7080	Horizontal	-49.28	-13.00
5	8850	Horizontal	-47.61	-13.00
6	10620	Horizontal	-45.93	-13.00
7	12390	Horizontal	-42.87	-13.00
8	14160	Horizontal	-41.57	-13.00
9	15930	Horizontal	-46.23	-13.00
10	17700	Horizontal	-40.81	-13.00

LTE Band 71 QPSK 5MHz CH- Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1331.0	Horizontal	-48.72	-13.00
3	1996.5	Horizontal	-58.96	-13.00
4	2662.0	Horizontal	-56.40	-13.00
5	3327.5	Horizontal	-59.15	-13.00
6	3993	Horizontal	-56.37	-13.00
7	4658.5	Horizontal	-55.08	-13.00
8	5324	Horizontal	-55.59	-13.00
9	5989.5	Horizontal	-53.23	-13.00
10	6655	Horizontal	-50.38	-13.00

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LTE Band 71 QPSK 5MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1361	Horizontal	-51.97	-13.00
3	2041.5	Horizontal	-58.52	-13.00
4	2722	Horizontal	-56.37	-13.00
5	3402.5	Horizontal	-59.28	-13.00
6	4083	Horizontal	-56.16	-13.00
7	4763.5	Horizontal	-54.63	-13.00
8	5444	Horizontal	-53.71	-13.00
9	6124.5	Horizontal	-52.53	-13.00
10	6805	Horizontal	-52.43	-13.00

LTE Band 71 QPSK 5MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1391	Horizontal	-59.12	-13.00
3	2086.5	Horizontal	-58.40	-13.00
4	2782	Horizontal	-56.76	-13.00
5	3477.5	Horizontal	-58.32	-13.00
6	4173	Horizontal	-55.19	-13.00
7	4868.5	Horizontal	-53.44	-13.00
8	5564	Horizontal	-53.91	-13.00
9	6259.5	Horizontal	-52.47	-13.00
10	6955	Horizontal	-49.82	-13.00

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LTE Band 71 QPSK 10 MHz CH- Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1336	Horizontal	-48.77	-13.00
3	2004	Horizontal	-59.15	-13.00
4	2672	Horizontal	-55.64	-13.00
5	3340	Horizontal	-59.72	-13.00
6	4008	Horizontal	-55.86	-13.00
7	4676	Horizontal	-54.81	-13.00
8	5344	Horizontal	-54.79	-13.00
9	6012	Horizontal	-51.63	-13.00
10	6680	Horizontal	-50.36	-13.00

LTE Band 71 QPSK 10MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1361	Horizontal	-51.62	-13.00
3	2041.5	Horizontal	-58.95	-13.00
4	2722	Horizontal	-53.27	-13.00
5	3402.5	Horizontal	-58.46	-13.00
6	4083	Horizontal	-56.52	-13.00
7	4763.5	Horizontal	-54.19	-13.00
8	5444	Horizontal	-53.49	-13.00
9	6124.5	Horizontal	-52.05	-13.00
10	6805	Horizontal	-51.76	-13.00

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LTE Band 71 QPSK 10MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1386	Horizontal	-59.15	-13.00
3	2079	Horizontal	-58.71	-13.00
4	2772	Horizontal	-55.67	-13.00
5	3465	Horizontal	-58.51	-13.00
6	4158	Horizontal	-56.36	-13.00
7	4851	Horizontal	-54.73	-13.00
8	5544	Horizontal	-54.38	-13.00
9	6237	Horizontal	-51.67	-13.00
10	6930	Horizontal	-50.21	-13.00

LTE Band 71 QPSK 20 MHz CH- Low, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1346	Horizontal	-48.90	-13.00
3	2019	Horizontal	-59.33	-13.00
4	2692	Horizontal	-55.71	-13.00
5	3365	Horizontal	-58.85	-13.00
6	4038	Horizontal	-56.67	-13.00
7	4711	Horizontal	-55.10	-13.00
8	5384	Horizontal	-54.65	-13.00
9	6057	Horizontal	-52.58	-13.00
10	6730	Horizontal	-50.97	-13.00

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LTE Band 71 QPSK 20MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1366	Horizontal	-54.14	-13.00
3	2049	Horizontal	-57.80	-13.00
4	2732	Horizontal	-56.71	-13.00
5	3415	Horizontal	-59.35	-13.00
6	4098	Horizontal	-56.29	-13.00
7	4781	Horizontal	-54.78	-13.00
8	5464	Horizontal	-53.34	-13.00
9	6147	Horizontal	-52.33	-13.00
10	6830	Horizontal	-50.06	-13.00

LTE Band 71 QPSK 20MHz CH- High, RB 1

Harmonic	Frequency (MHz)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)
2	1376	Horizontal	-51.63	-13.00
3	2064	Horizontal	-57.18	-13.00
4	2752	Horizontal	-54.77	-13.00
5	3440	Horizontal	-59.08	-13.00
6	4128	Horizontal	-56.37	-13.00
7	4816	Horizontal	-54.92	-13.00
8	5504	Horizontal	-52.46	-13.00
9	6192	Horizontal	-51.94	-13.00
10	6880	Horizontal	-50.65	-13.00

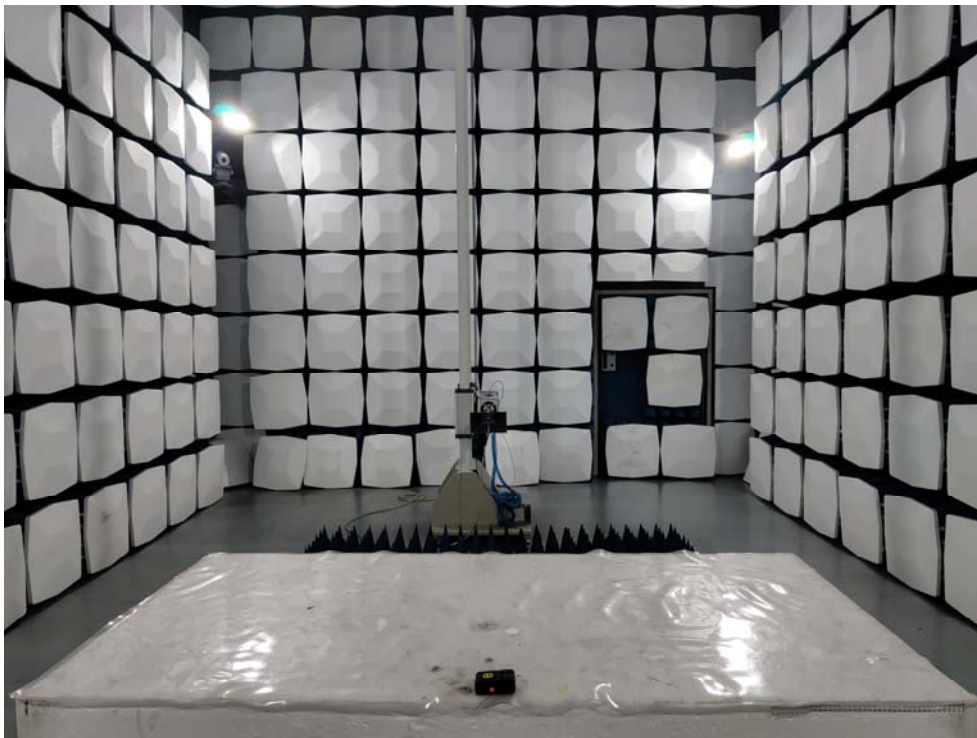
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
 2. The worst emission was found in the antenna is Horizontal position.

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6.0 Test Setup Photos

Spurious Radiated Emission:



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7.0 EUT Photos

Outside View



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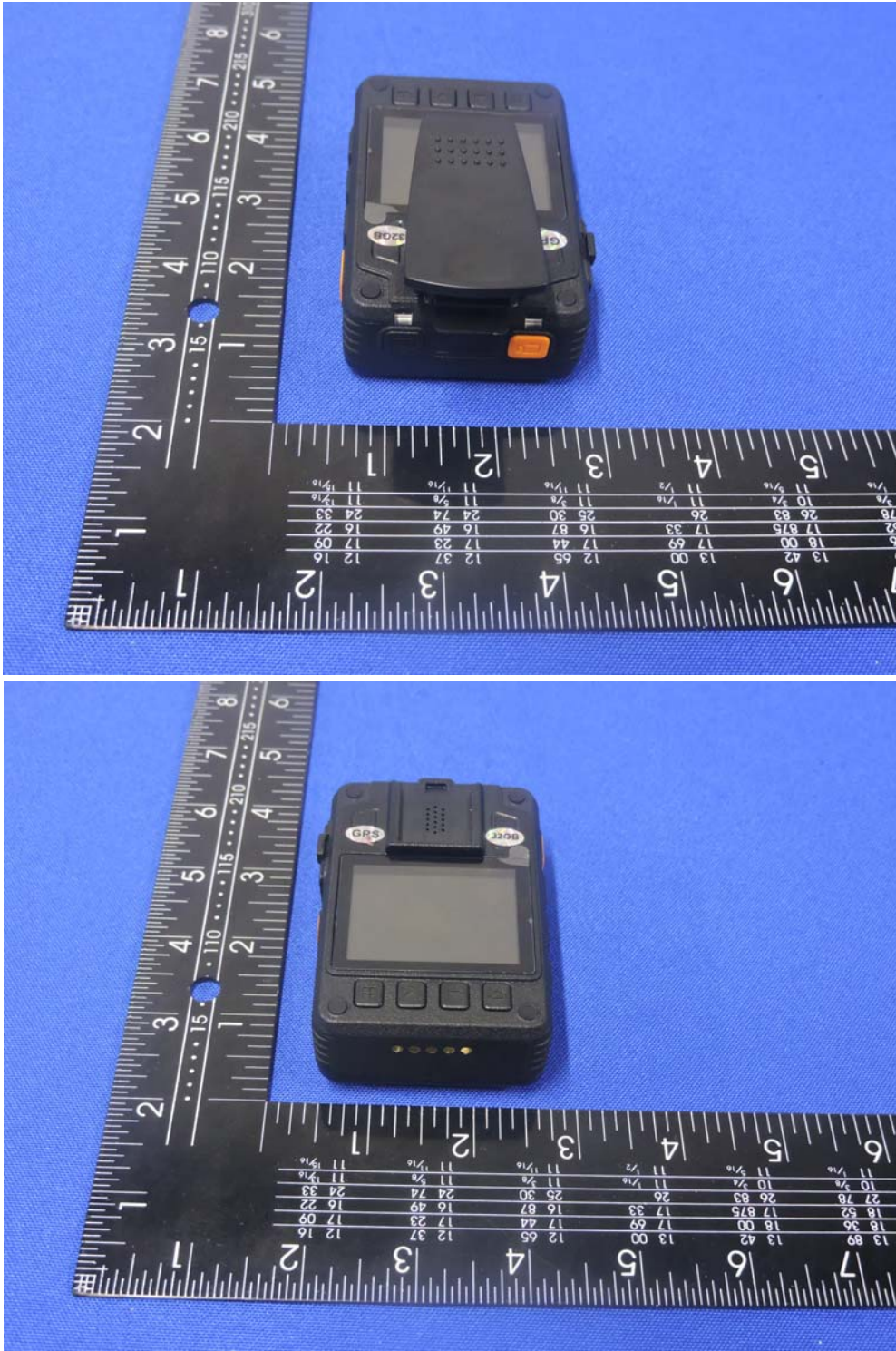
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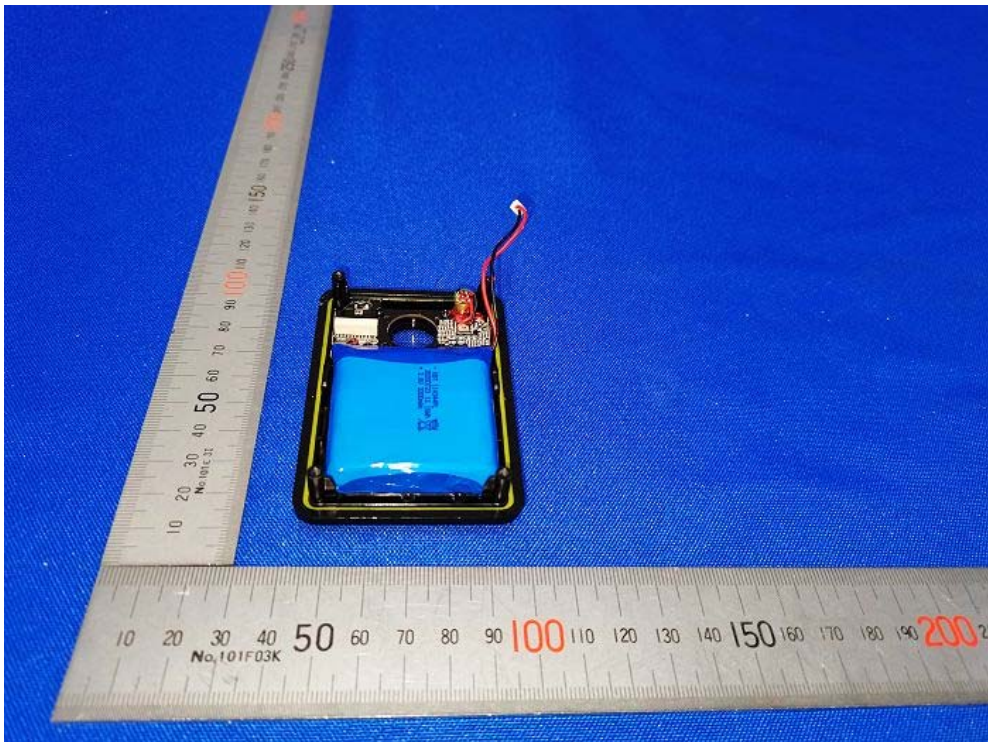
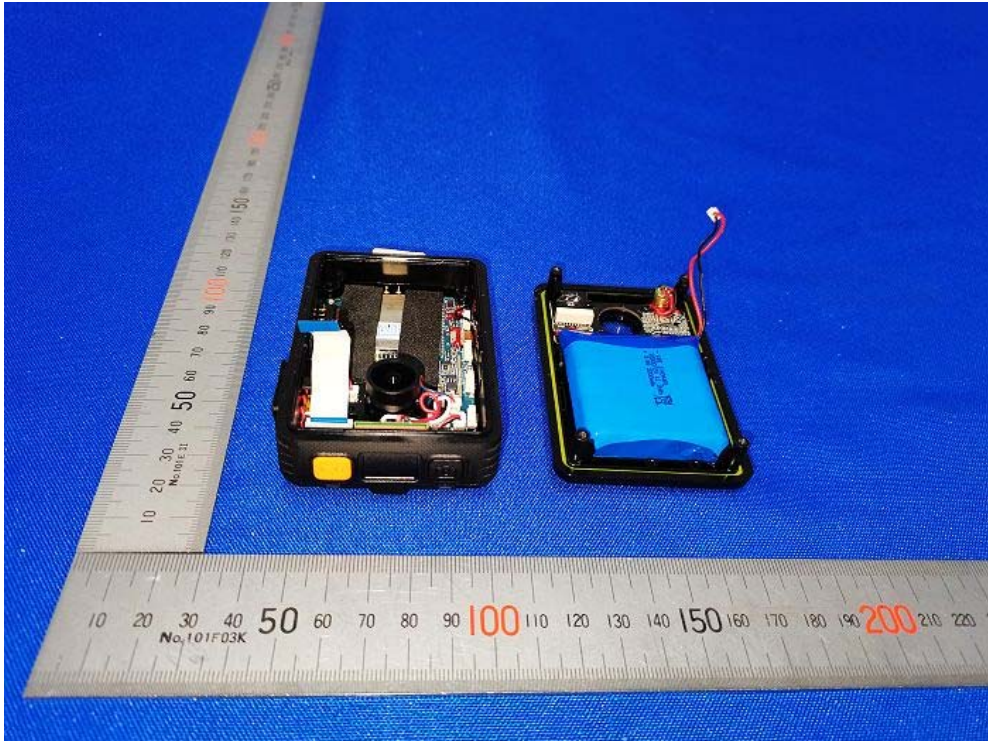
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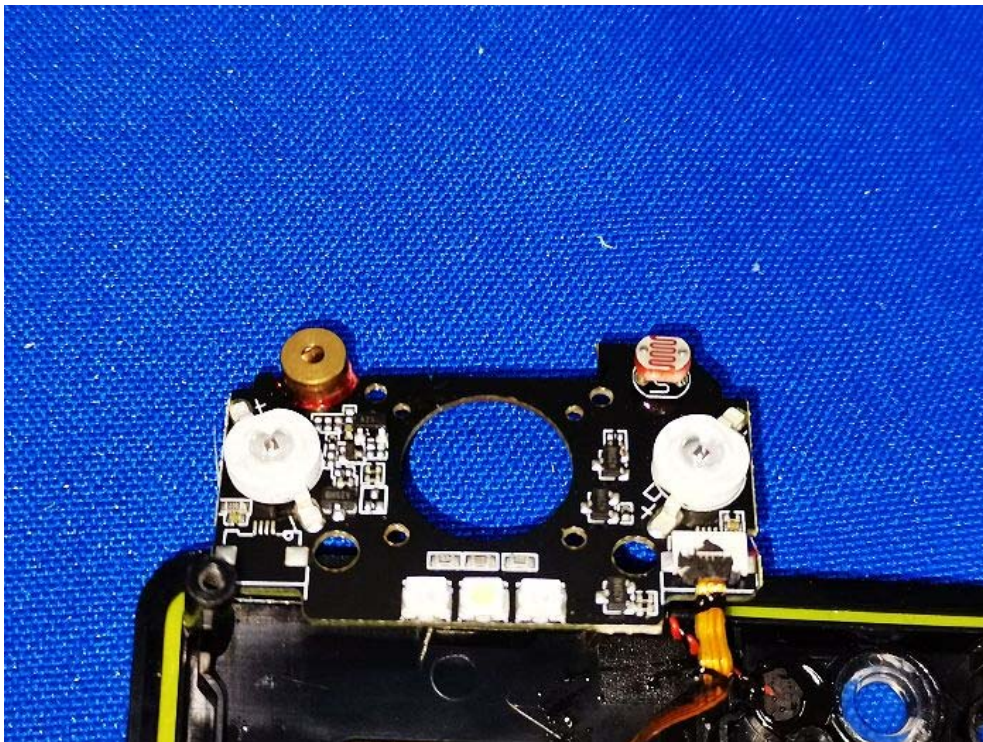
Inside view



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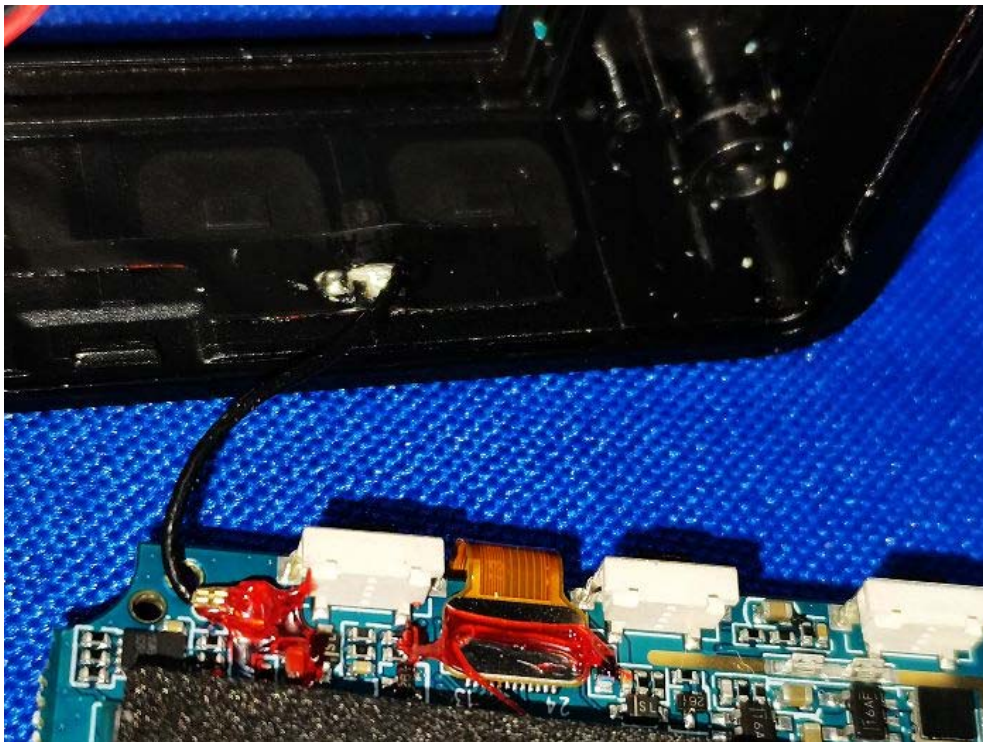
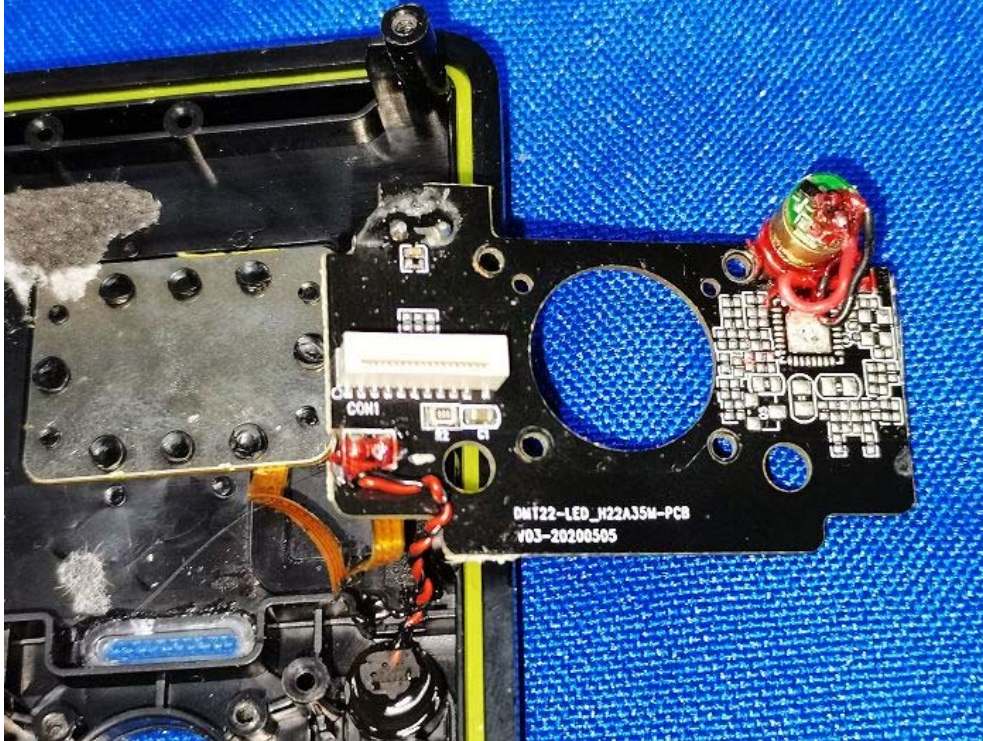
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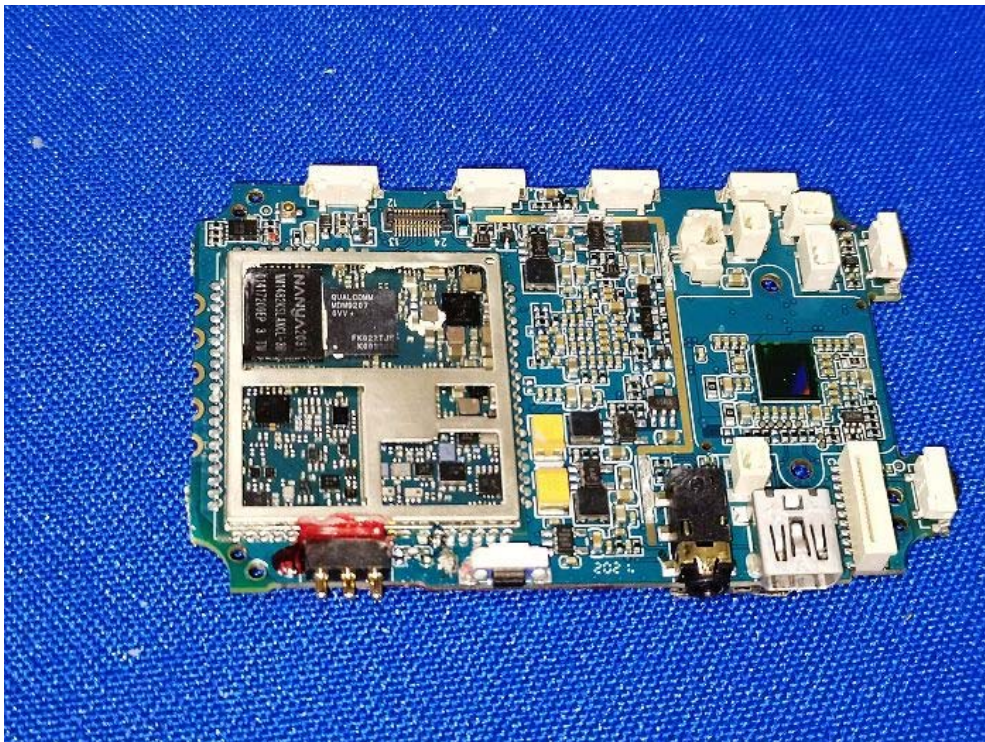
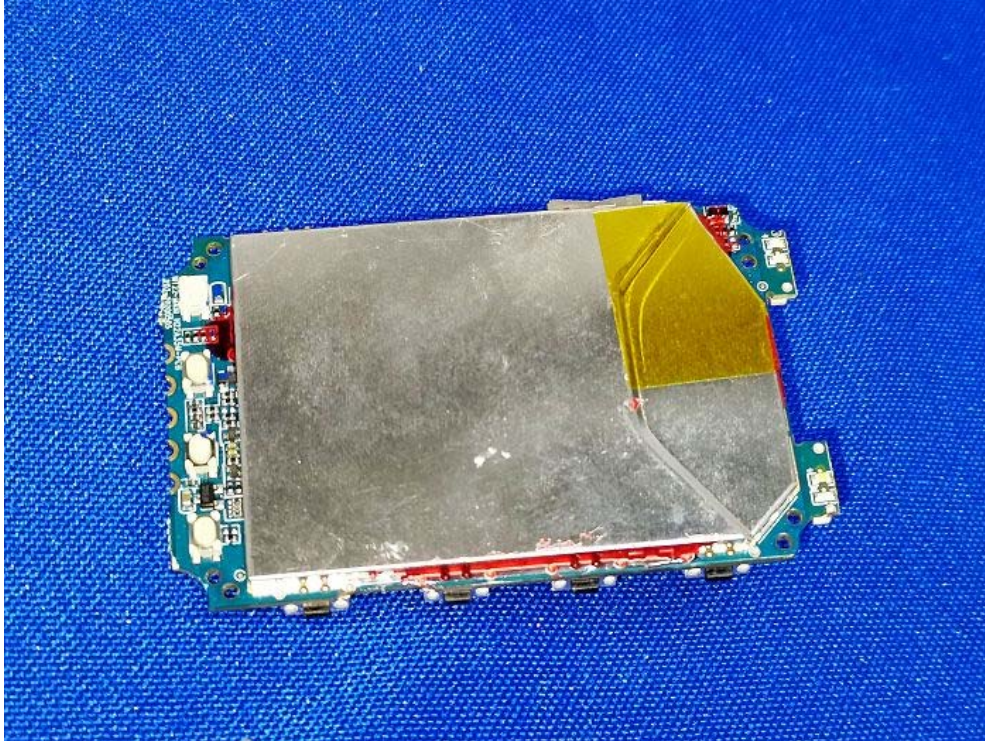
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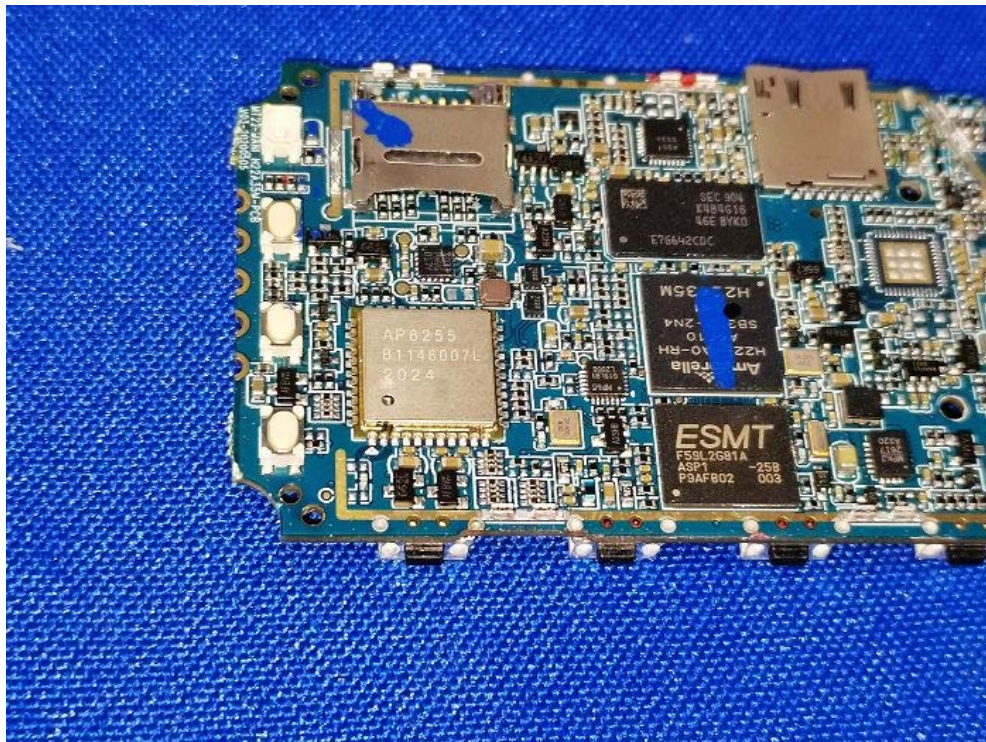
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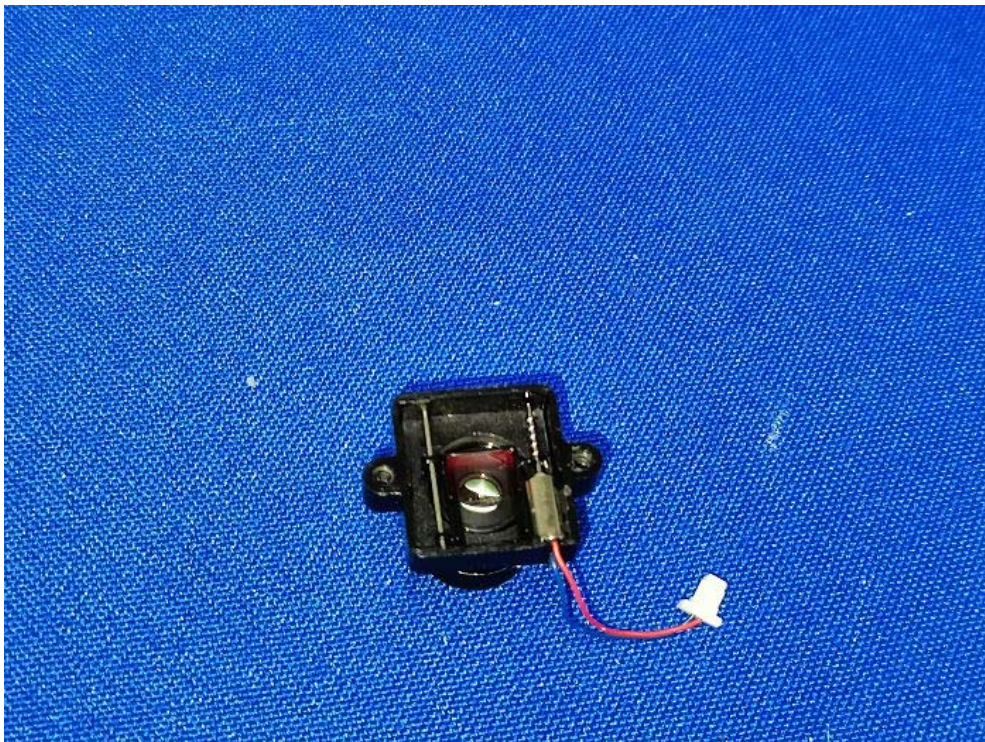
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Inside view



--End the of Report--

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