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TEST REPORT

47 CFR FCC Part 15 Subpart C 15.231

Report Reference No.: CTL1710122061-WF

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Product Name.....: 433MHz TRANSCEIVER

Model/Type reference: KTX433

List Model(s).....: KTX433-UART

Trade Mark: KINGLORD

FCC ID: 2AOW4KTX433-UART

Applicant's name: CM GLOBAL

Address of applicant: 1201 N. 4TH STREET, WATERTOWN, WI 53098, USA

Test Firm: Shenzhen CTL Testing Technology Co., Ltd.

Address of Test Firm: Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road,
Nanshan District, Shenzhen, China 518055

Test specification.....:

Standard.....: 47 CFR FCC Part 15 Subpart C 15.231

TRF Originator: Shenzhen CTL Testing Technology Co., Ltd.

Master TRF: Dated 2011-01

Date of Receipt.....: Jan. 09, 2018

Date of Test Date.....: Jan. 09, 2018 –Jan. 15, 2018

Data of Issue.....: Jan. 15, 2018

Result.....: Pass

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TEST REPORT

Test Report No. : CTL1710122061-WF	Jan. 15, 2018 Date of issue
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Equipment under Test : 433MHz TRANSCEIVER

Model /Type : KTX433

Listed Models : KTX433-UART

Applicant : **CM GLOBAL**

Address : 1201 N. 4TH STREET, WATERTOWN, WI 53098, USA

Manufacturer : **KINGLORD ELECTRONICS (HK) LTD.**

Address : FLAT 8, 14/F., WAH YIU INDUSTRIAL CENTRE, 30-32 AU
PUI WAN STREET, FO TAN, NT., HONG KONG

Test result	Pass *
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* In the configuration tested, the EUT complied with the standards specified page 5.

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

**** Modified History ****

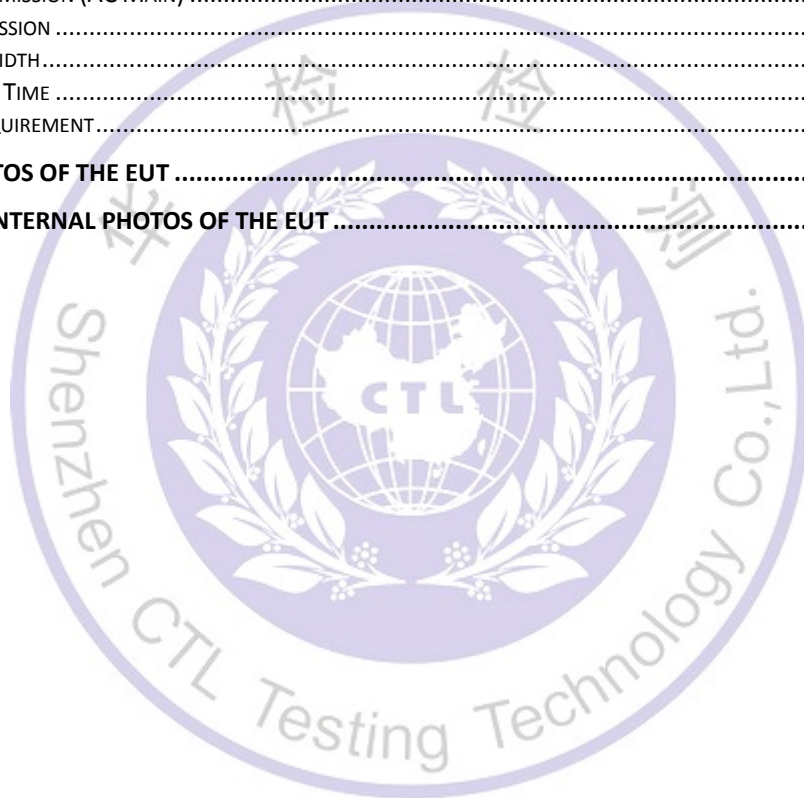
Version	Description	Issued Data	Report No.	Remark
Version 1.0	Initial Test Report Release	2018-01-15	CTL1710122061-WF	Tracy Qi



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1. SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.231: Periodic operation in the band 40.66-40.70 MHz and above 70 MHz.

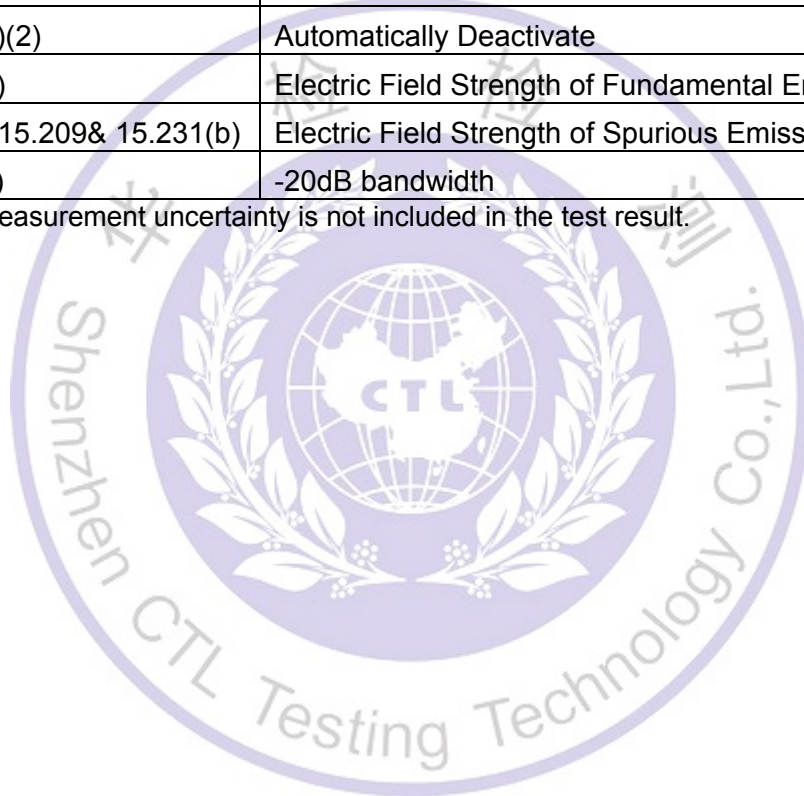
ANSI C63.10:2013 : American National Standard for Testing Unlicensed Wireless Devices

ANSI C63.4: 2014: –American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz
Range of 9 kHz to 40GHz

1.2. Test Description

FCC and IC Requirements		
FCC Part 15.207	Conducted Emission	PASS
FCC Part 15.231(a)(2)	Automatically Deactivate	PASS
FCC Part 15.231(b)	Electric Field Strength of Fundamental Emission	PASS
FCC Part 15.205 & 15.209 & 15.231(b)	Electric Field Strength of Spurious Emission	PASS
FCC Part 15.231(c)	-20dB bandwidth	PASS

Remark: The measurement uncertainty is not included in the test result.



1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 32/EN 55032 requirements.

1.3.2 Laboratory accreditation

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

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

FCC-Registration No.: 399832

Shenzhen CTL Testing Technology Co., Ltd. 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 399832, December 08, 2017.

1.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Measurement Uncertainty	Notes
Transmitter power conducted	± 0.57 dB	(1)
Transmitter power Radiated	± 2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	± 2.20 dB	(1)
Occupied Bandwidth	± 0.01 ppm	(1)
Radiated Emission 30~1000MHz	± 4.10 dB	(1)
Radiated Emission Above 1GHz	± 4.32 dB	(1)
Conducted Disturbance 0.15~30MHz	± 3.20 dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

2. GENERAL INFORMATION

2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2. General Description of EUT

Product Name:	433MHz TRANSCEIVER
Model/Type reference:	KTX433, KTX433-UART
Power supply:	DC 5V
Modulation:	GFSK
Operation frequency:	432.700MHz~434.900 MHz
Channel number:	8
Antenna type:	External antenna
Antenna gain:	2dBi

Note: For more details, please refer to the user's manual of the EUT.

2.3. Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency :

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	432.700	5	434.000
2	433.100	6	434.300
3	433.500	7	434.600
4	433.600	8	434.900

Note1: In section 15.31(m), regards to the operating frequency range less than 10MHz, one near top and one near bottom point in the frequency range of operation should be selected to measure.

Note2: The line display in grey was the channel selected for test.

2.4. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	3560.6550.12	2017/06/02	2018/06/01
LISN	R&S	ESH2-Z5	860014/010	2017/06/02	2018/06/01
Bilog Antenna	Sunol Sciences Corp.	JB1	A061713	2017/06/02	2018/06/01
EMI Test Receiver	R&S	ESCI	103710	2017/06/02	2018/06/01
Spectrum Analyzer	Agilent	N9020	US46220290	2017/01/17	2018/01/16
Controller	EM Electronics	Controller EM 1000	N/A	2017/05/21	2018/05/20

Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2017/05/19	2018/05/18
Active Loop Antenna	SCHWARZBECK	FMZB1519	1519-037	2017/05/19	2018/05/18
Amplifier	Agilent	8449B	3008A02306	2017/05/19	2018/05/18
Amplifier	Agilent	8447D	2944A10176	2017/05/19	2018/05/18
Temperature/Humidity Meter	Gangxing	CTH-608	02	2017/05/20	2018/05/19
High-Pass Filter	K&L	9SH10-2700/X 12750-O/O	N/A	2017/05/20	2018/05/19
High-Pass Filter	K&L	41H10-1375/U 12750-O/O	N/A	2017/05/20	2018/05/19
Coaxial Cables	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	2017/06/02	2018/06/01
Coaxial Cables	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	2017/06/02	2018/06/01
Coaxial Cables	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	2017/06/02	2018/06/01
RF Cable	Megalon	RF-A303	N/A	2017/06/02	2018/06/01

The calibration interval was one year

2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria.

3. TEST CONDITIONS AND RESULTS

3.1. Conducted Emission (AC Main)

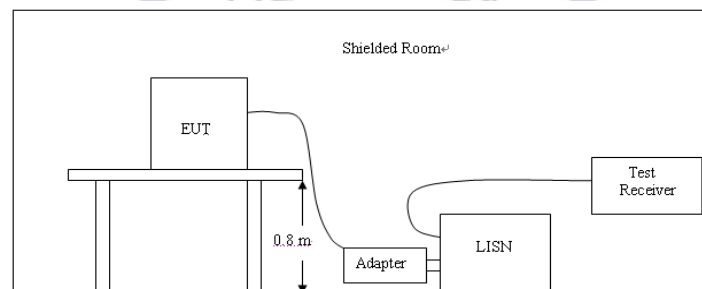
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

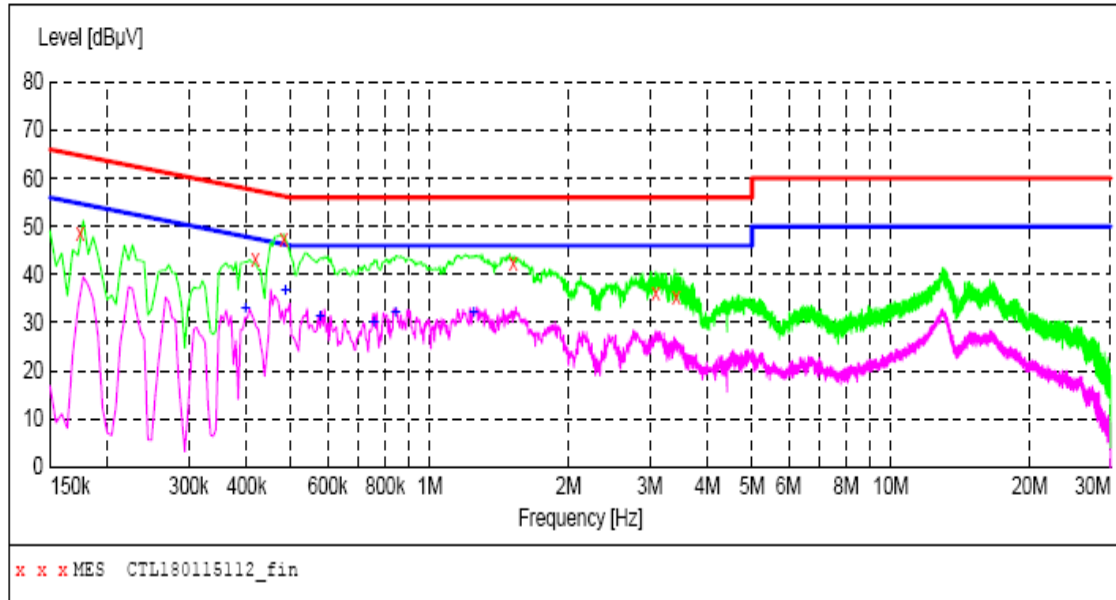
1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a flood stand system; a wooden table with a height of 0.1 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
2. Support equipment, if needed, was placed as per ANSI C63.10-2013
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST RESULTS

Remark: Both the top and bottom frequency was tested, and recorded the worst at bottom frequency as below:

SCAN TABLE: "Voltage (9K-30M) FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "CTL180115112_fin"**

15/01/2018 11:49

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.174000	48.40	10.2	65	16.4	QP	L1	GND
0.418000	43.20	10.2	58	14.3	QP	L1	GND
0.482000	47.50	10.2	56	8.8	QP	L1	GND
1.514000	42.20	10.3	56	13.8	QP	L1	GND
3.086000	36.00	10.4	56	20.0	QP	L1	GND
3.422000	35.20	10.4	56	20.8	QP	L1	GND

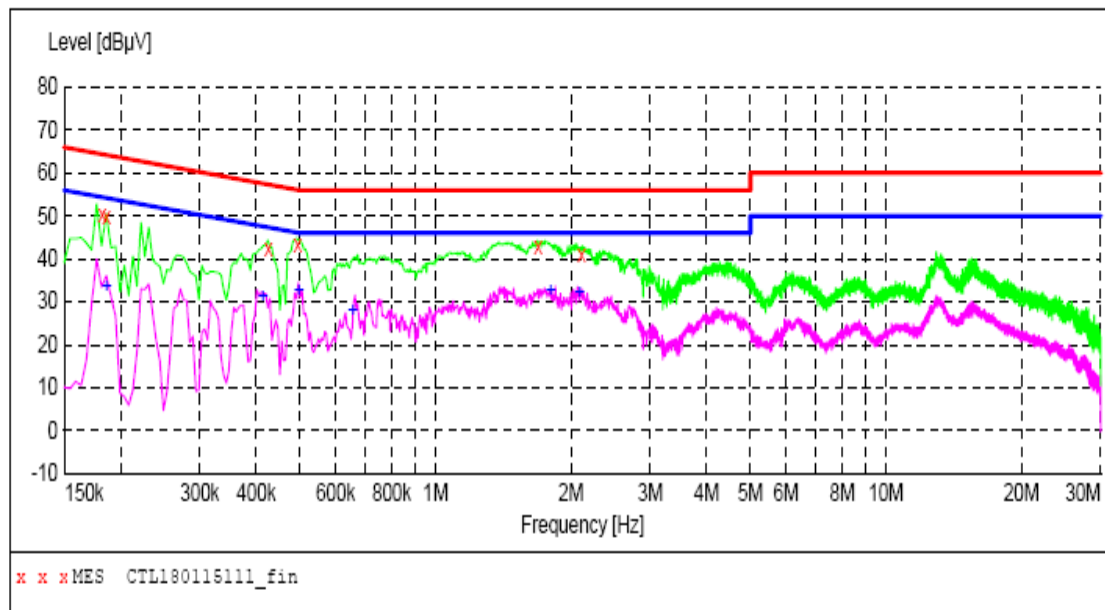
MEASUREMENT RESULT: "CTL180115112_fin2"

15/01/2018 11:49

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.398000	32.90	10.2	48	15.0	AV	L1	GND
0.486000	36.50	10.2	46	9.7	AV	L1	GND
0.578000	31.40	10.2	46	14.6	AV	L1	GND
0.758000	30.00	10.2	46	16.0	AV	L1	GND
0.842000	32.00	10.2	46	14.0	AV	L1	GND
1.244000	32.10	10.3	46	13.9	AV	L1	GND

SCAN TABLE: "Voltage (9K-30M) FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "CTL180115111_fin"**

15/01/2018 11:45

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.182000	50.30	10.2	64	14.1	QP	N	GND
0.186000	49.80	10.2	64	14.4	QP	N	GND
0.426000	42.30	10.2	57	15.0	QP	N	GND
0.494000	43.40	10.2	56	12.7	QP	N	GND
1.688000	42.70	10.3	56	13.3	QP	N	GND
2.108000	40.90	10.4	56	15.1	QP	N	GND

MEASUREMENT RESULT: "CTL180115111_fin2"

15/01/2018 11:45

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	33.50	10.2	54	20.7	AV	N	GND
0.414000	31.10	10.2	48	16.5	AV	N	GND
0.498000	32.40	10.2	46	13.6	AV	N	GND
0.656000	27.80	10.2	46	18.2	AV	N	GND
1.802000	32.50	10.3	46	13.5	AV	N	GND
2.090000	32.00	10.4	46	14.0	AV	N	GND

3.2. Radiated Emission

Limit

For intentional device, according to 15.209(a) the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table.

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

In addition to the provisions of 15.231(b) and RSS 210-A1.1.2, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

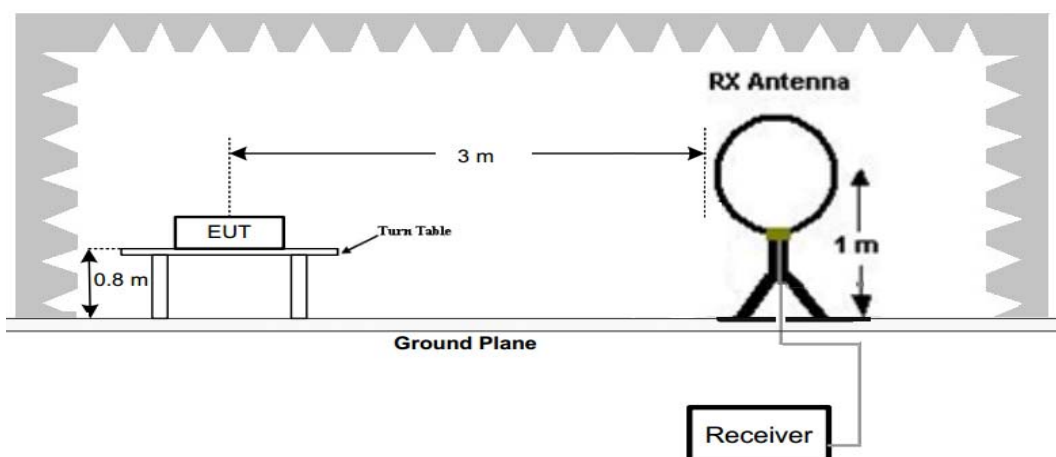
Funda- mental fre- quency (MHz)	Field strength of funda- mental (microvolts/ meter)	Field strength of spurious emissions (microvolts/meter)
40.66– 40.70.	2,250	225
70–130	1,250	125
130–174	¹ 1,250 to 3,750	¹ 125 to 375
174–260	3,750	375
260–470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1,250

¹ Linear interpolations.

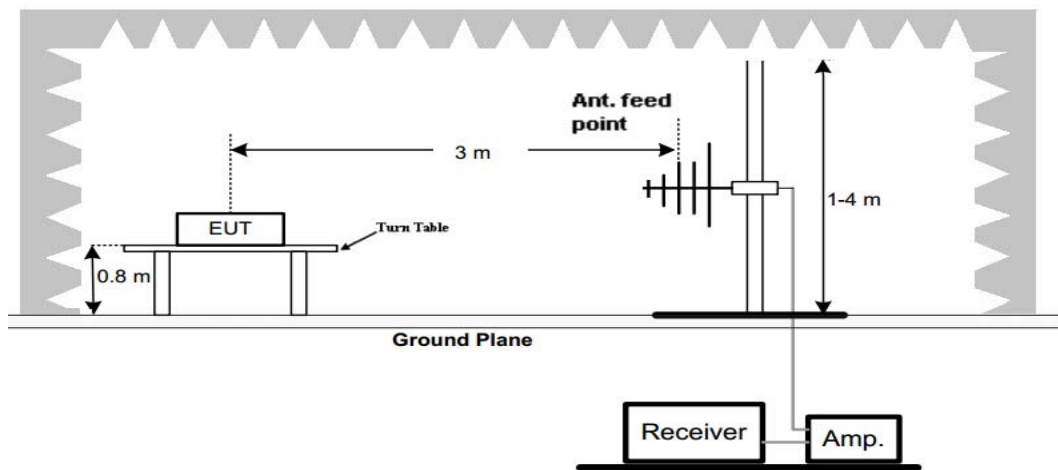
[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 260–470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

TEST CONFIGURATION

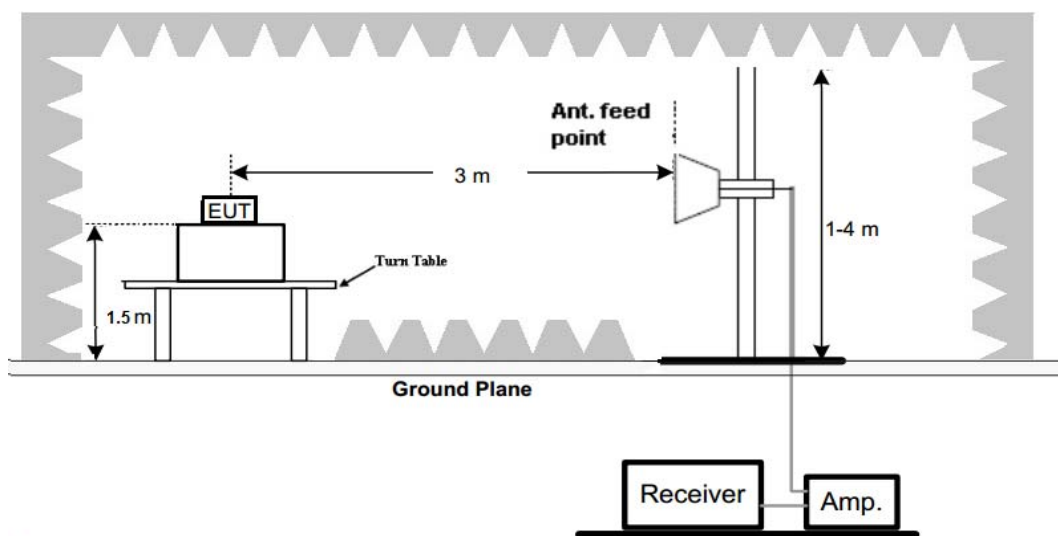
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

TEST RESULTS

The emissions from 30MHz to 5GHz are measured peak and average level, below 1 GHz measured QP level, detailed test data please see below. Besides, we tested 3 directions and recorded the worst data.

Test Frequency: 432.700MHz

Emission Styles	Frequency (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Direction (H/V)
Fundamental	432.70	84.42	100.78	16.36	PK	H
Spurious	141.89	41.53	80.78	39.25	PK	H
Harmonics	865.40	48.27	80.78	32.51	PK	H
Harmonics	1298.10	41.83	80.78	38.95	PK	H
--	--	--	--	--	--	--
Fundamental	432.70	84.86	100.78	15.92	PK	V
Spurious	141.89	42.20	80.78	38.58	PK	V
Harmonics	865.40	51.35	80.78	29.43	PK	V
Harmonics	1298.10	42.08	80.78	38.70	PK	V
--	--	--	--	--	--	--

Emission Styles	Frequency (MHz)	PK Level (dBuV/m)	AV Factor (dB/m)	AV Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Direction (H/V)
Fundamental	432.70	84.42	-6.02	78.40	80.78	2.38	H
Spurious	141.89	41.53	-6.02	35.51	60.78	25.27	H
Harmonics	865.40	48.27	-6.02	42.25	60.78	18.53	H
Harmonics	1298.10	41.83	-6.02	35.81	60.78	24.97	H
--	--	--	--	--	--	--	--
Fundamental	432.70	84.86	-6.02	78.84	80.78	1.94	V
Spurious	141.89	42.20	-6.02	36.18	60.78	24.60	V
Harmonics	865.40	51.35	-6.02	45.33	60.78	15.45	V
Harmonics	1298.10	42.08	-6.02	36.06	60.78	24.72	V
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Test Frequency: 434.90MHz

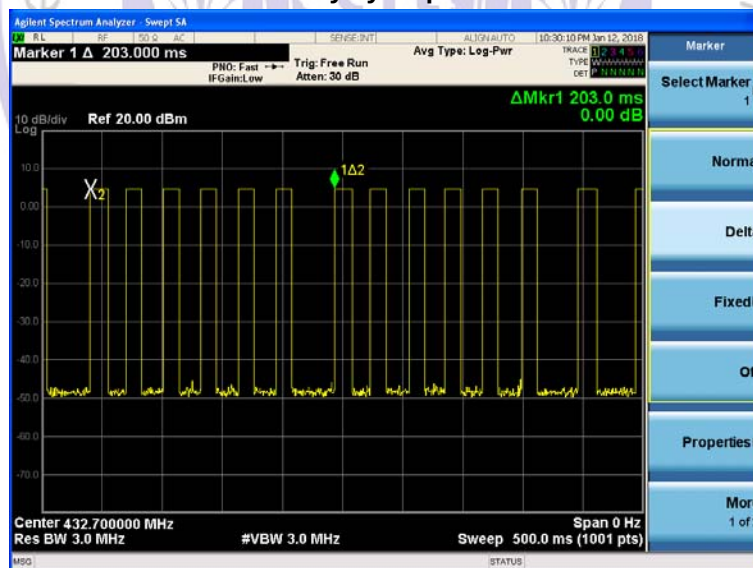
Emission Styles	Frequency (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Direction (H/V)
Fundamental	434.90	84.35	100.86	16.51	PK	H
Spurious	144.00	36.02	80.86	44.84	PK	H
Harmonics	869.80	48.64	80.86	32.22	PK	H
Harmonics	1304.70	42.73	80.86	38.13	PK	H
--	--	--	--	--	--	--
Fundamental	434.90	84.55	100.86	16.31	PK	V
Spurious	144.00	41.24	80.86	39.62	PK	V
Harmonics	869.80	50.18	80.86	30.68	PK	V
Harmonics	1304.70	43.91	80.86	36.95	PK	V
--	--	--	--	--	--	--

Emission Styles	Frequency (MHz)	PK Level (dBuV/m)	AV Factor (dB/m)	AV Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Direction (H/V)
Fundamental	434.90	84.35	-6.02	78.33	80.86	2.53	H
Spurious	144.00	36.02	-6.02	30.00	60.86	30.86	H
Harmonics	869.80	48.64	-6.02	42.62	60.86	18.24	H
Harmonics	1304.70	42.73	-6.02	36.71	60.86	24.15	H
--	--	--	--	--	--	--	--
Fundamental	434.90	84.55	-6.02	78.53	80.86	2.33	V
Spurious	144.00	41.24	-6.02	35.22	60.86	25.64	V
Harmonics	869.80	50.18	-6.02	44.16	60.86	16.70	V
Harmonics	1304.70	43.91	-6.02	37.89	60.86	22.97	V
--	--	--	--	--	--	--	--

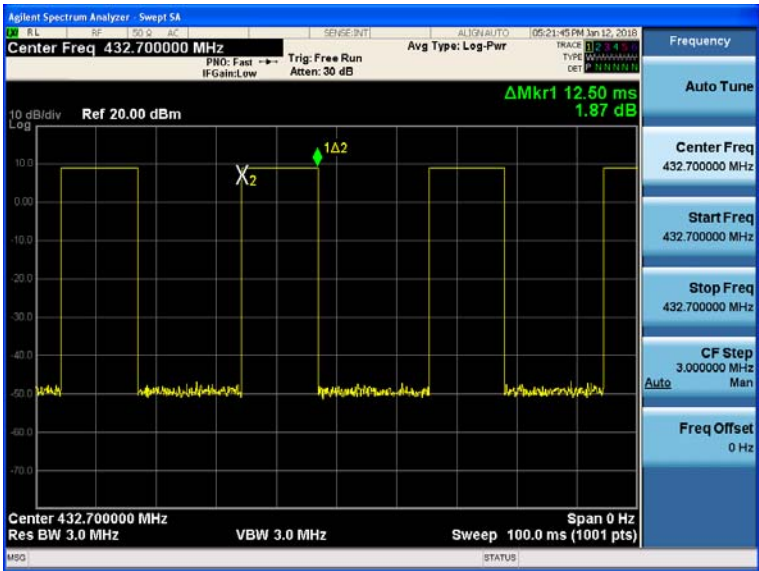
Note:

1. AV Level (dBuV/m)= PK Level (dBuV/m)+ AV Factor(dB)
2. In a transmit cycle 203.0ms period found 12.5ms burst 6pcs, the Duty Cycle can calculate as below:
Duty Cycle= (12.5 *4)/100=0.5
(Note: According to C63.10, if the transmit cycle period longer than 100ms, then 100ms is used calculation.)
AV Factor=20*log(Duty Cycle)=20*log(0.5)=-6.02
(The plot of Duty Cycle See the follow page)

Duty cycle plots



(Transmit cycle 203.0ms)
(Total Bursts in a transmit cycle 6pcs)



(12.50ms per burst)

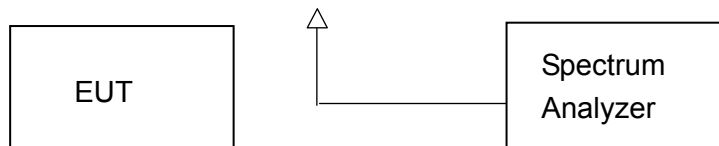


3.3. 20dB Bandwidth

Limit

According to 47 CFR 15.231(c) The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

Test Configuration



Test Procedure

The 20dB bandwidth and 99% bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

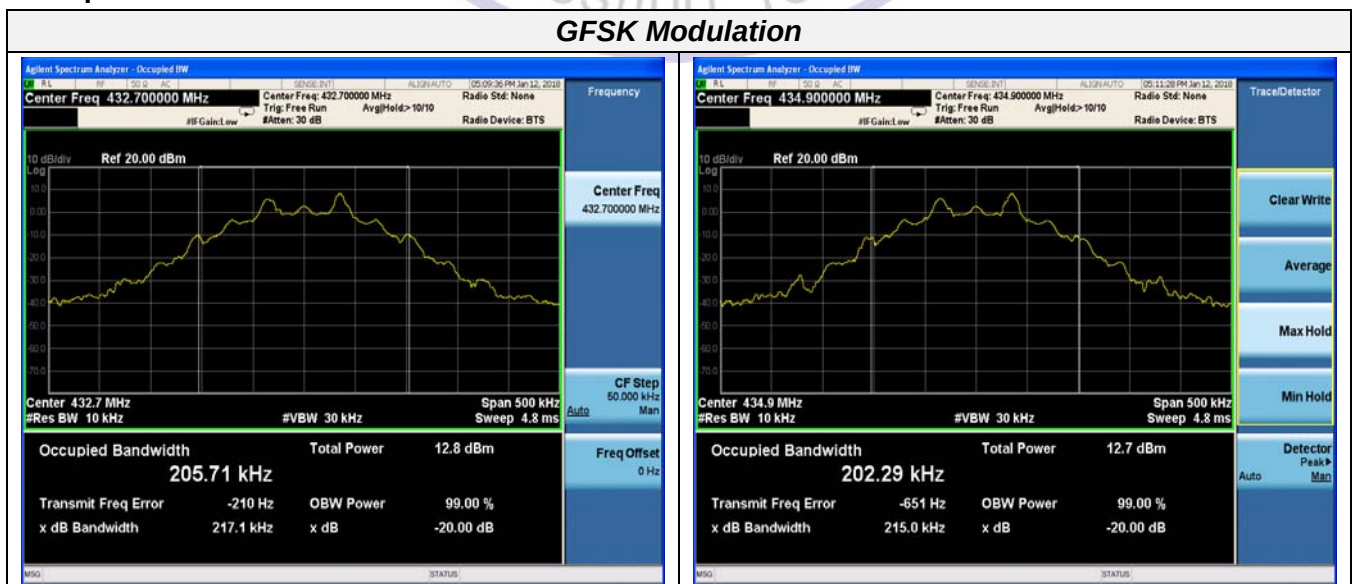
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The occupied bandwidth (OBW), 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.

Test Results

Modulation	Channel Frequency (MHz)	99% OBW (KHz)	20dB bandwidth (KHz)	Limit (KHz)	Result
GFSK	432.70	205.71	217.10	$0.25\% \times 432.70 = 1081.75$	Pass
	434.90	202.29	215.00	$0.25\% \times 434.90 = 1087.25$	Pass

Test plot as follows:

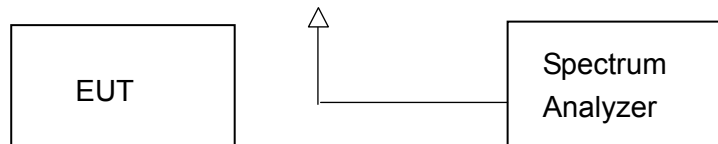


3.4. Deactivation Time

Limit

According to FCC §15.231(a)(2), A transmitter activated automatically shall cease transmission within 5 seconds after activation.

Test Configuration



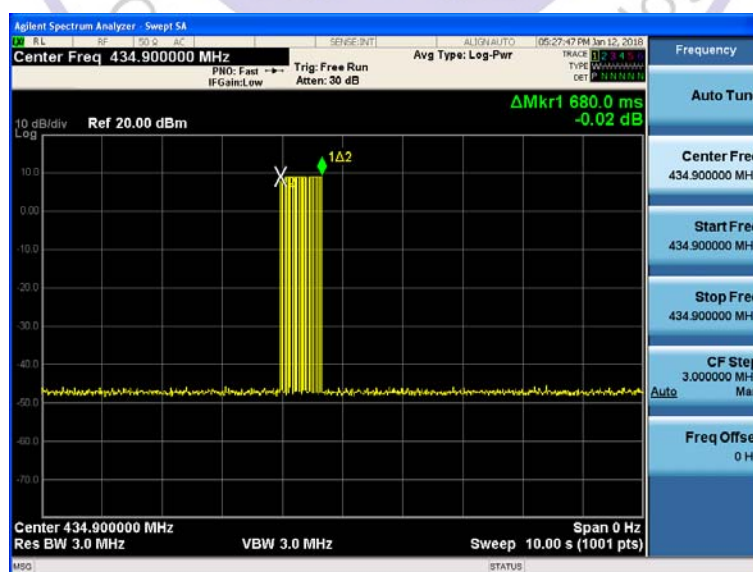
Test Procedure

1. The EUT was placed on a wooded table which is 0.8m height and close to receiver antenna of spectrum analyzer.
2. The spectrum analyzer resolution bandwidth was set to 3 MHz and video bandwidth was set to 3 MHz to encompass all significant spectral components during the test. The spectrum analyzer was operated in linear scale and zero span mode after tuning to the transmitter carrier frequency.

TEST RESULTS

Note: The transmitter was automatically activated, and the carrier frequency 434.90MHz:

Frequency (MHz)	One transmission time (S)	Limit(S)	Result
434.90	0.680	5	Pass



3.5. Antenna Requirement

Standard Applicable

According to FCC Part 15C 15.203

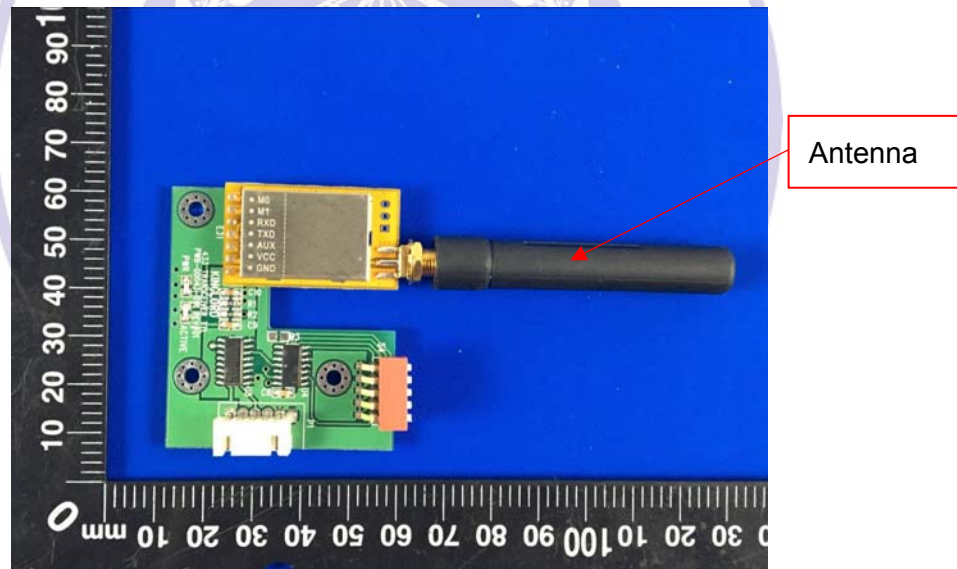
- a) An intentional radiator shall be de-signed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
- b) The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The EUT used unique non-standard reverse polarity external antenna port. The directional gains of antenna used for transmitting is 2 dBi.

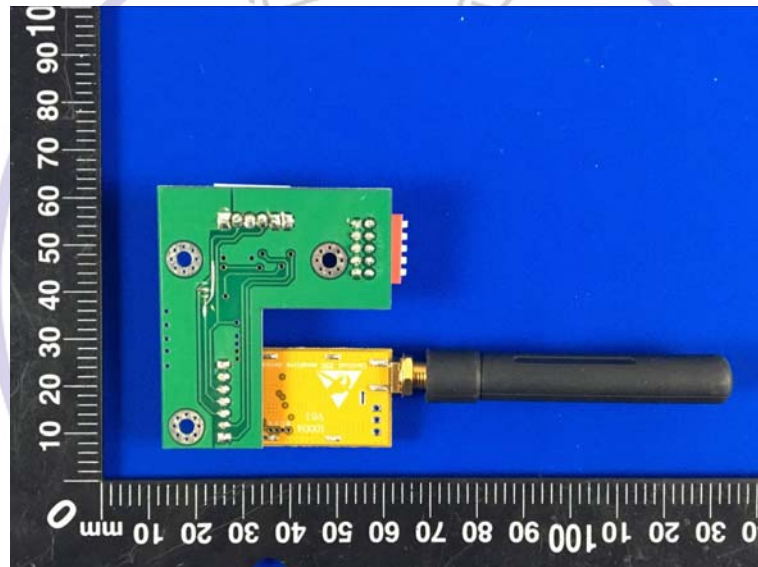
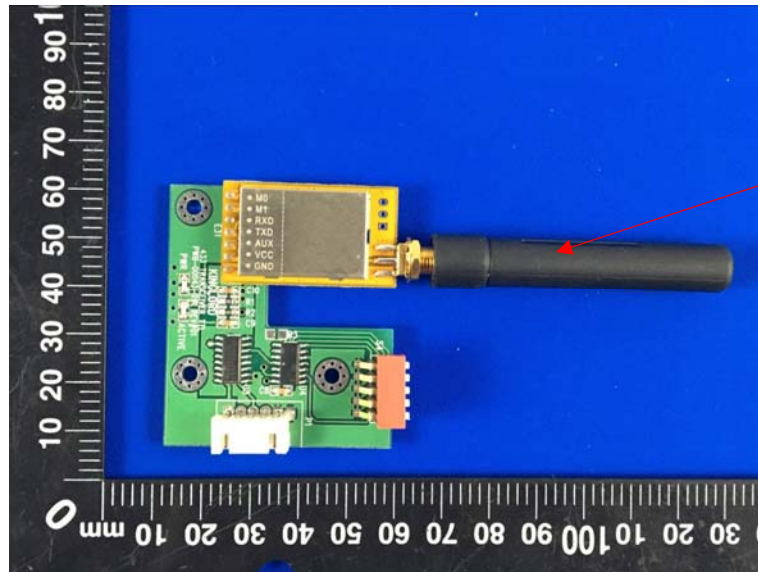


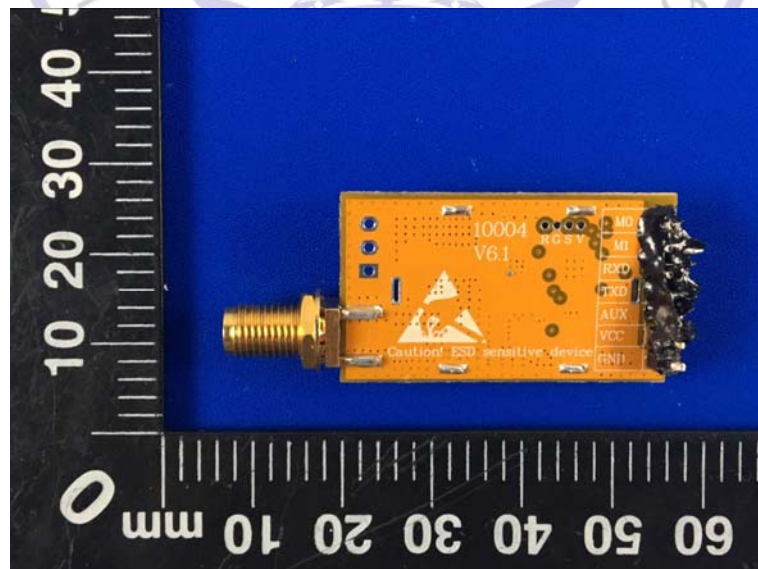
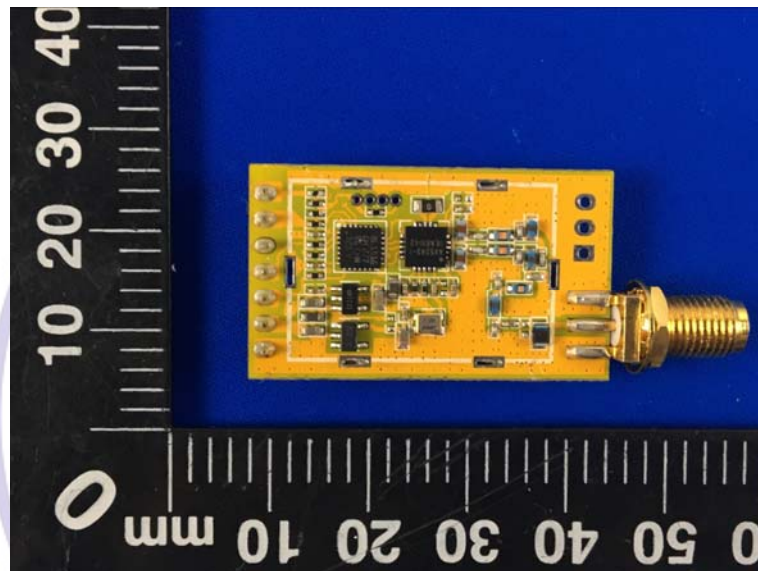
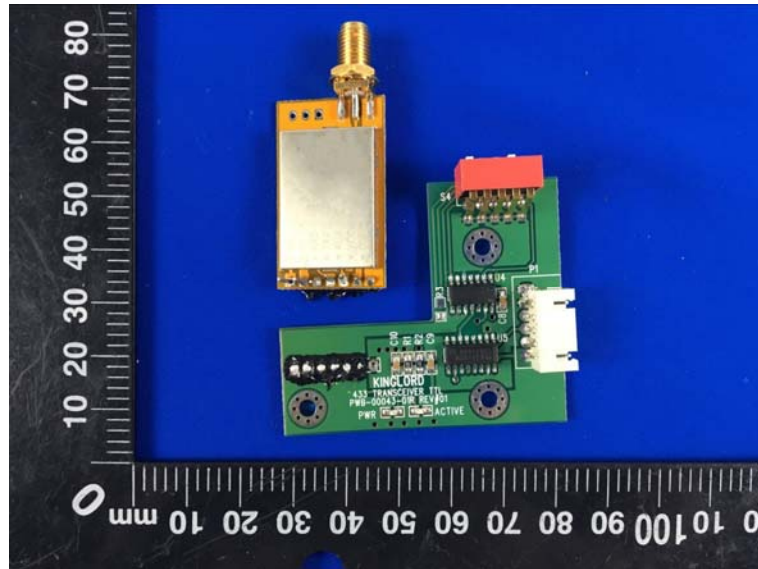
4. Test Setup Photos of the EUT



5. External and Internal Photos of the EUT

External Photos of EUT





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