

FCC TEST REPORT

Product : Multi-function Remote Controller
Trade mark : **TIGIDIGITAL**
Model/Type reference : TGCC-HR-B1
Serial Number : N/A
Report Number : EED32J001592
FCC ID : 2ANG3TGCC-HR-B1
Date of Issue : Aug. 16, 2017
Test Standards : 47 CFR Part 15 Subpart C (2015)
Test result : PASS

Prepared for:

SHENZHEN TIGI DIGITAL LIGHTING TECHNOLOGY CO., LTD.
7th Floor, 6th Block, Zhongyuntai Science and Technology Industrial
Park, Songbai Load, Shiyan Town, Baoan District, Shenzhen

Prepared by:

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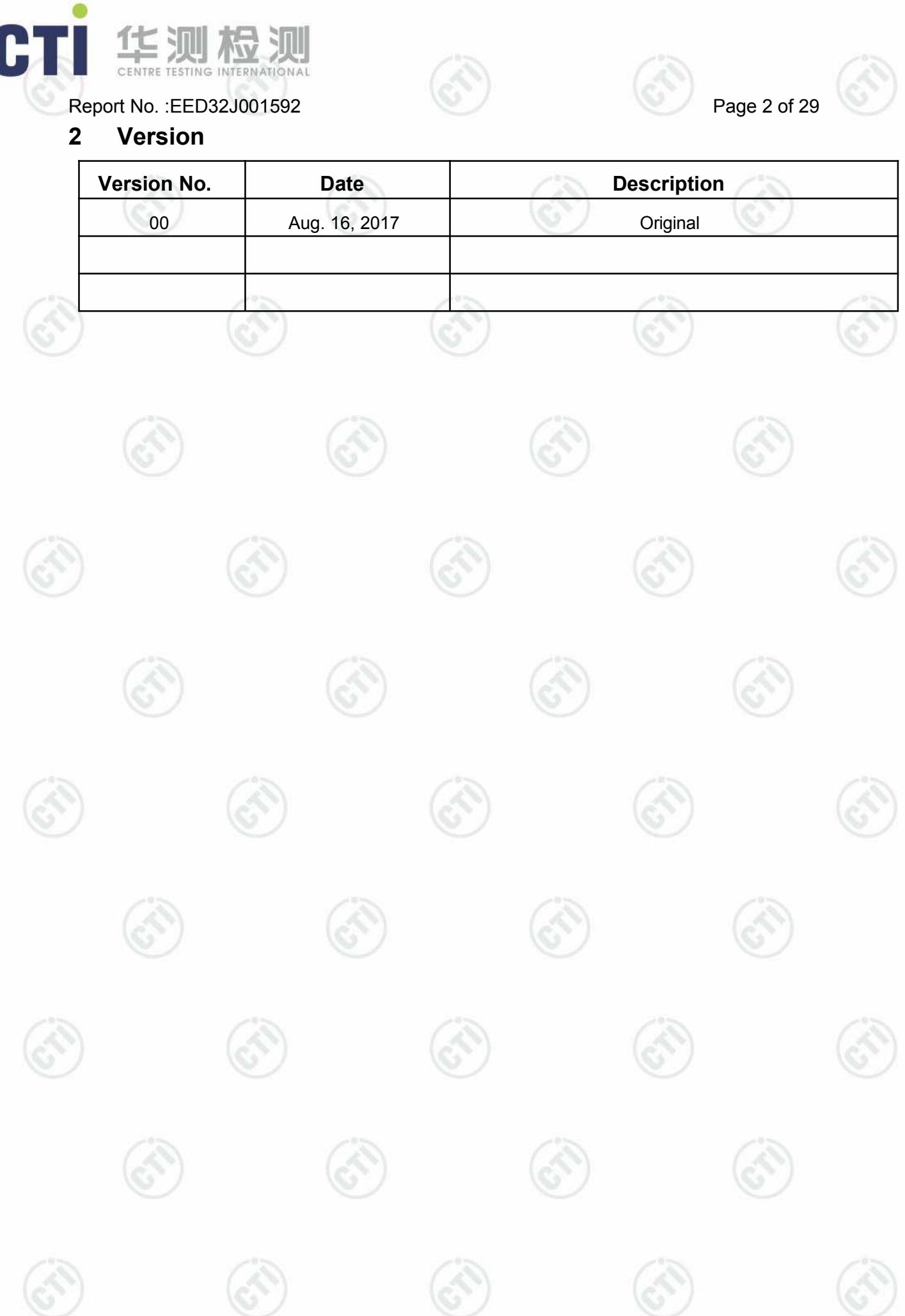
Aug. 16, 2017

Check No.: 2457500181



2 Version

Version No.	Date	Description
00	Aug. 16, 2017	Original



3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	N/A
Field Strength of the Fundamental Signal	47 CFR Part 15 Subpart C Section 15.249 (a)	ANSI C63.10-2013	PASS
Spurious Emissions	47 CFR Part 15 Subpart C Section 15.249 (a)/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart C Section 15.249(a)/15.205	ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.215 (c)	ANSI C63.10-2013	PASS

Remark:

The tested samples and the sample information are provided by the client.

N/A: The device is only battery operated, the test related AC mains is not applicable.

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

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5 General Information

5.1 Client Information

Applicant:	SHENZHEN TIGI DIGITAL LIGHTING TECHNOLOGY CO., LTD
Address of Applicant:	7th Floor, 6th Block, Zhongyuntai Science and Technology Industrial Park, Songbai Load, Shiyan Town, Baoan District, Shenzhen
Manufacturer:	SHENZHEN TIGI DIGITAL LIGHTING TECHNOLOGY CO., LTD
Address of Manufacturer:	7th Floor, 6th Block, Zhongyuntai Science and Technology Industrial Park, Songbai Load, Shiyan Town, Baoan District, Shenzhen
Factory:	SHENZHEN TIGI DIGITAL LIGHTING TECHNOLOGY CO., LTD.
Address of Factory:	7th Floor, 6th Block, Zhongyuntai Science and Technology Industrial Park, Songbai Load, Shiyan Town, Baoan District, Shenzhen

5.2 General Description of EUT

Product Name:	Multi-function Remote Controller
Model No.(EUT):	TGCC-HR-B1
Trade Mark:	TIGIDIGITAL III ONE SECOND ONE DOLLAR EVERY ONE
EUT Supports Radios application:	2409MHz, 2434MHz, 2468MHz
Power Supply:	2*1.5V AAA Battery = 3.0V

5.3 Product Specification subjective to this standard

Frequency Range:	2409MHz, 2434MHz, 2468MHz
Modulation Type:	GFSK
Number of Channel:	3
Test power grade:	N/A
Test software of EUT:	N/A
Antenna Type:	Monopole antenna
Antenna Gain:	0dBi
Test voltage:	2*1.5V AAA Battery = 3.0V
Sample Received Date:	Jul. 26, 2017
Sample tested Date:	Jul. 26, 2017 to Aug. 16, 2017

5.4 Test Environment and Mode

Operating Environment:	
Temperature:	25.5°C
Humidity:	61.5% RH
Atmospheric Pressure:	1010mbar
Test mode:	
TX mode	The EUT transmitted the continuous modulation test signal at the specific channels

5.5 Description of Support Units

The EUT has been tested independently.

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.31dB (30MHz-1GHz)
		0.57dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-12.75GHz)
4	Conduction emission	3.6dB (9kHz to 150kHz)
		3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%

6 Equipment List

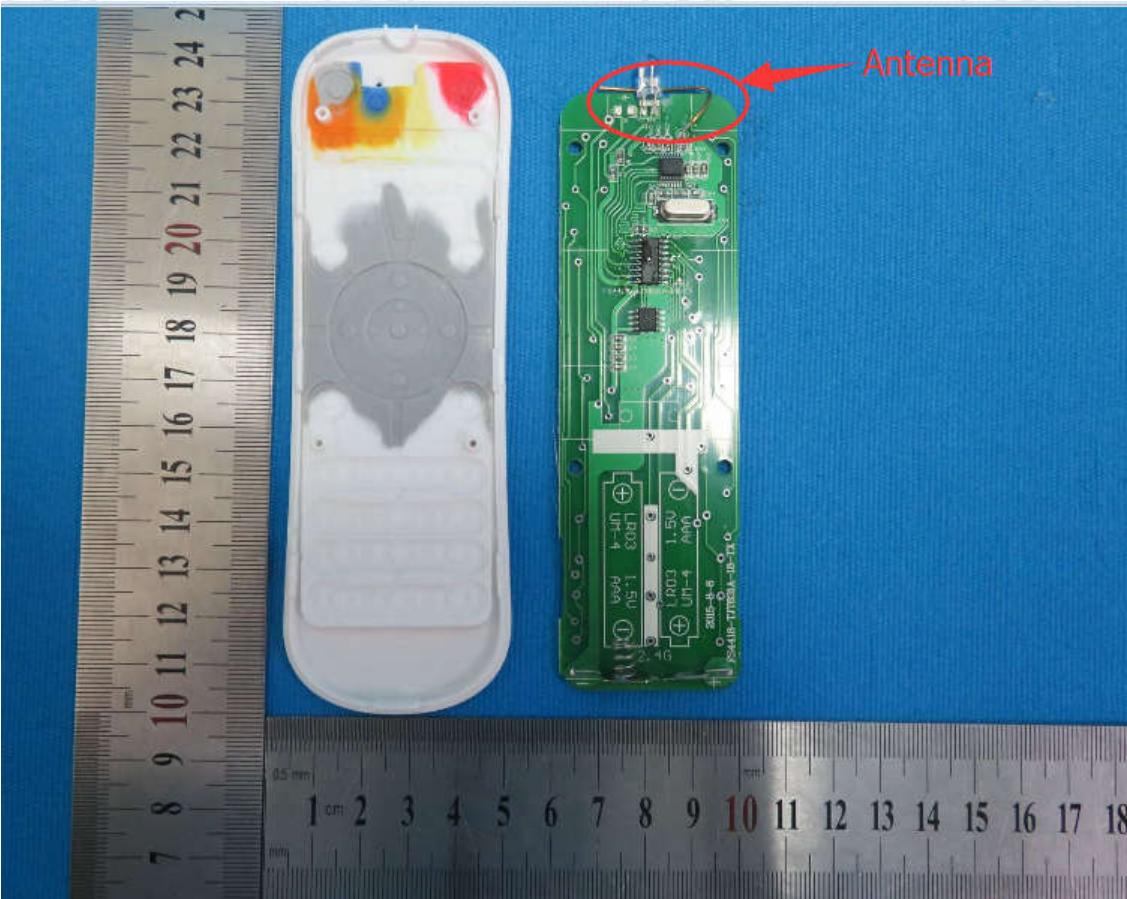
3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	TTE20130797	06-01-2016	05-31-2019
TRILOG Broadband Antenna	SCHWARZBECK	VULB9163	9163-484	06-09-2017	06-08-2018
Microwave Preamplifier	Agilent	8449B	3008A02425	02-16-2017	02-15-2018
Horn Antenna	ETS-LINDGREN	3117	00057410	06-30-2015	06-28-2018
Horn Antenna	A.H.SYSTEMS	SAS-574	374	06-30-2015	06-28-2018
Loop Antenna	ETS	6502	00071730	07-30-2016	07-28-2018
Spectrum Analyzer	R&S	FSP40	100416	06-13-2017	06-12-2018
Receiver	R&S	ESCI	100435	06-14-2017	06-13-2018
LISN	schwarzbeck	NNBM8125	81251547	06-13-2017	06-12-2018
LISN	schwarzbeck	NNBM8125	81251548	06-13-2017	06-12-2018
Signal Generator	Agilent	E4438C	MY45095744	03-14-2017	03-13-2018
Signal Generator	Keysight	E8257D	MY53401106	03-14-2017	03-13-2018
Temperature/ Humidity Indicator	TAYLOR	1451	1905	05-08-2017	05-07-2018
Cable line	Fulai(7M)	SF106	5219/6A	01-11-2017	01-10-2018
Cable line	Fulai(6M)	SF106	5220/6A	01-11-2017	01-10-2018
Cable line	Fulai(3M)	SF106	5216/6A	01-11-2017	01-10-2018
Cable line	Fulai(3M)	SF106	5217/6A	01-11-2017	01-10-2018
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	TTF20120439	01-11-2017	01-10-2018
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	003	01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX01CA09 CL12-0395-001	TTF20120434	01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX01CA08 CL12-0393-001	TTF20120435	01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX02CA04 CL12-0396-002	TTF20120436	01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX02CA03 CL12-0394-001	TTF20120437	01-11-2017	01-10-2018

RF Conducted test					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	R&S	FSP40	100416	06-13-2017	06-12-2018
Signal Generator	Agilent	E4438C	MY45095744	03-14-2017	03-13-2018
Signal Generator	Keysight	E8257D	MY53401106	03-14-2017	03-13-2018
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	TTF20120439	01-11-2017	01-10-2018
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	003	01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX01CA09C L12-0395-001	TTF20120434	01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX01CA08C L12-0393-001	TTF20120435	01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX02CA04C L12-0396-002	TTF20120436	01-11-2017	01-10-2018

7 Test results and Measurement Data

7.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
15.203 requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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.
EUT Antenna:	The antenna is Monopole antenna and no consideration of replacement. The best case gain of the antenna is 0dBi.



7.2 Radiated Spurious Emission

Test Requirement: 47 CFR Part 15C Section 15.249 and 15.209

Test Method: ANSI C63.10

Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120kHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Test Setup:

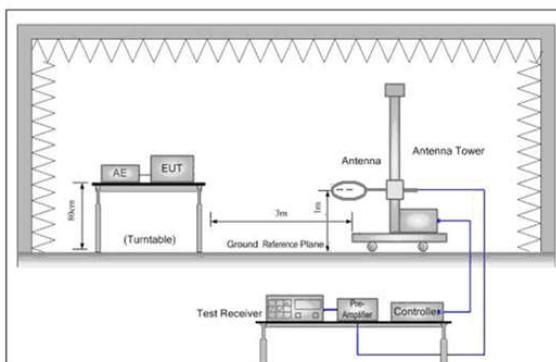


Figure 1. Below 30MHz

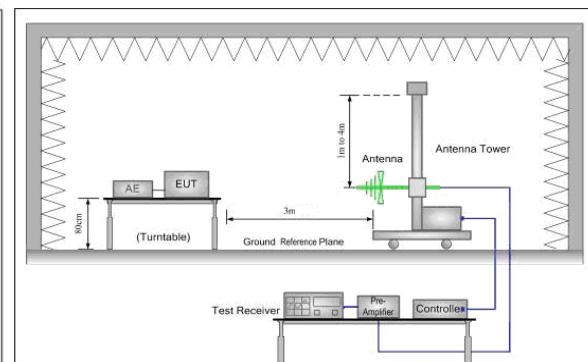


Figure 2. 30MHz to 1GHz

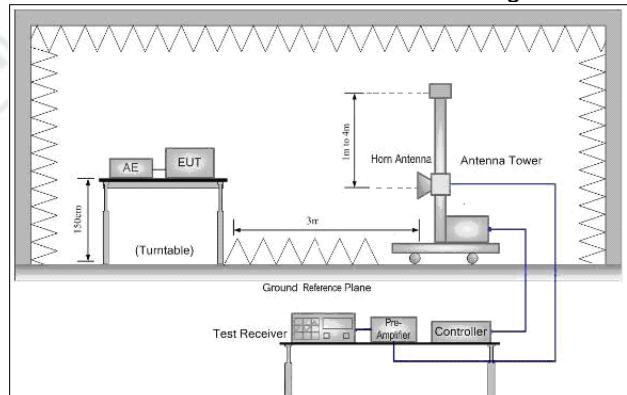


Figure 3. Above 1GHz

Below 1GHz test procedure as below:

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with

Test Procedure:

Maximum Hold Mode.

If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported.

Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).

Test the EUT in the lowest channel , the Highest channel

The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

Repeat above procedures until all frequencies measured was complete.

Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Frequency	Limit (dB μ V/m @3m)	Remark
2400MHz-2483.5MHz	94.0	Average Value
	114.0	Peak Value

Limit:
(Spurious Emissions)

Limit:
(Field strength of the fundamental signal)

Test Mode: Transmitting mode

Instruments Used: Refer to section 6 for details

Test Results: Pass

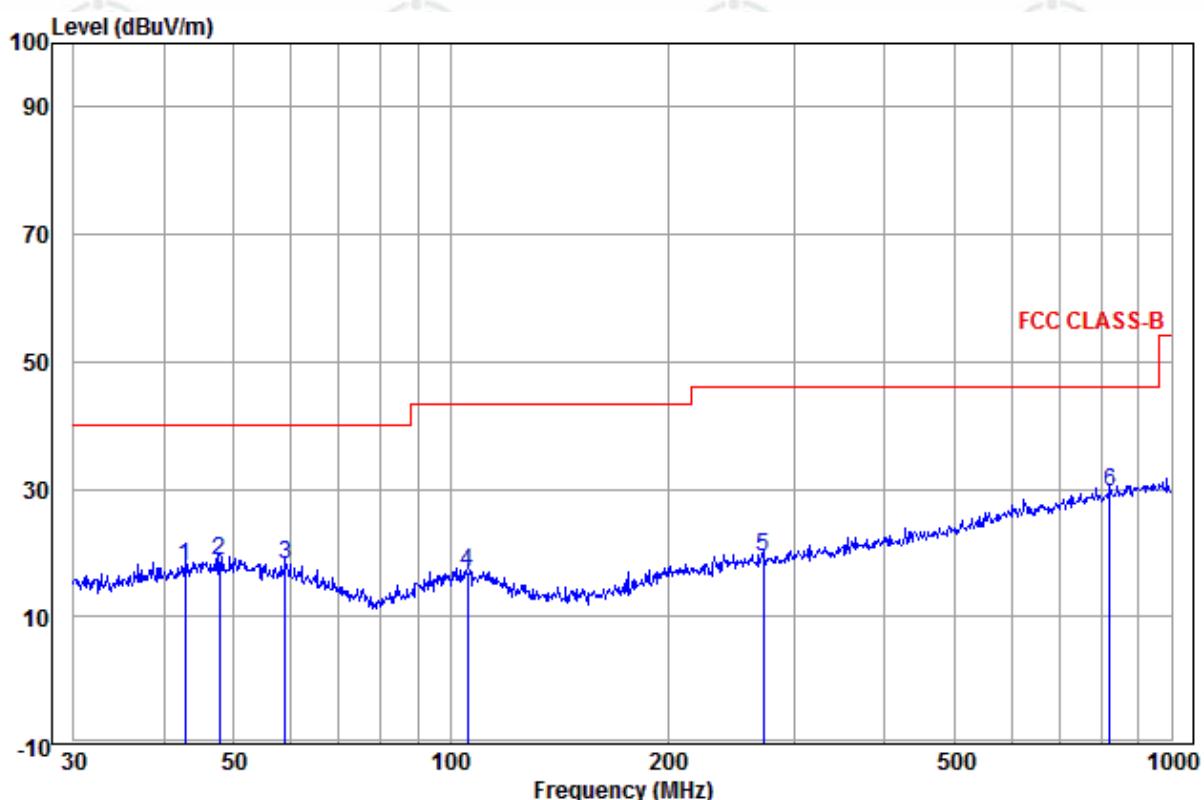
Measurement Data**Field Strength Of The Fundamental Signal****Peak value:**

Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB μ V)	Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Result	Antenna Polaxis
2409.00	32.57	3.08	44.05	80.70	72.30	94.00	-21.70	Pass	H
2409.00	32.57	3.08	44.05	69.91	61.51	94.00	-32.49	Pass	V
2434.00	32.61	3.09	44.08	77.18	68.80	94.00	-25.20	Pass	H
2434.00	32.61	3.09	44.08	68.45	60.07	94.00	-33.93	Pass	V
2468.00	32.69	3.11	44.12	78.27	69.95	94.00	-24.05	Pass	H
2468.00	32.69	3.11	44.12	67.65	59.33	94.00	-34.67	Pass	V

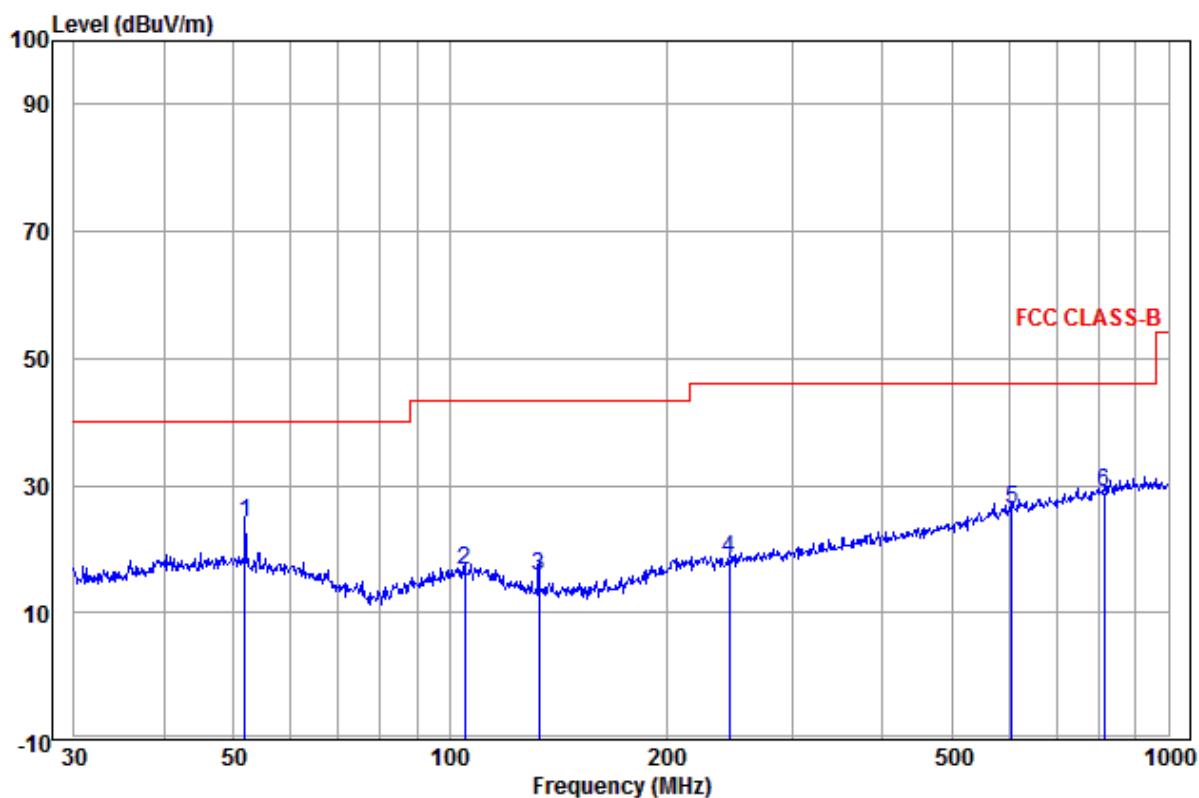
Remark: As shown in this section, for field strength of the fundamental signal measurements, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above. So only the peak measurements were shown in the report.

Spurious Emissions

30MHz~1GHz



Freq	Ant Factor	Cable Loss	Read Level	Level	Limit		Over Limit	Pol/Phase	Remark
					MHz	dB/m	dB	dBuV	dBuV/m
1	42.750	14.47	0.07	3.37	17.91	40.00	-22.09	Horizontal	QP
2	47.826	14.92	0.10	3.87	18.89	40.00	-21.11	Horizontal	QP
3	59.025	13.92	0.20	4.06	18.18	40.00	-21.82	Horizontal	QP
4	105.642	12.73	0.59	3.77	17.09	43.50	-26.41	Horizontal	QP
5	271.325	12.89	1.22	5.17	19.28	46.00	-26.72	Horizontal	QP
6 pp	821.710	21.73	2.46	5.25	29.44	46.00	-16.56	Horizontal	QP



	Ant Freq	Cable Factor	Read Level	Limit		Over Line	Over Limit	Pol/Phase	Remark	
				MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	51.843	14.84	0.13	9.12	24.09	40.00	-15.91	Vertical	QP
2		104.903	12.79	0.59	3.36	16.74	43.50	-26.76	Vertical	QP
3		133.151	10.73	0.60	4.56	15.89	43.50	-27.61	Vertical	QP
4		245.090	12.33	1.32	4.77	18.42	46.00	-27.58	Vertical	QP
5		605.659	18.89	1.83	5.52	26.24	46.00	-19.76	Vertical	QP
6		813.112	21.68	2.46	4.90	29.04	46.00	-16.96	Vertical	QP

Above 1GHz

Test mode:		Transmitting		Test Frequency :		2409MHz			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB μ V)	Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Result	Antenna Polaxis
1353.804	30.57	2.09	44.18	46.97	35.45	74.00	-38.55	Pass	H
1889.633	31.54	2.73	43.60	46.91	37.58	74.00	-36.42	Pass	H
4818.000	34.72	6.01	44.60	54.68	50.81	74.00	-23.19	Pass	H
5880.782	35.81	7.32	44.51	46.99	45.61	74.00	-28.39	Pass	H
7227.000	36.42	6.95	44.79	47.03	45.61	74.00	-28.39	Pass	H
9636.000	37.91	7.00	45.57	41.88	41.22	74.00	-32.78	Pass	H
1346.929	30.56	2.08	44.18	47.45	35.91	74.00	-38.09	Pass	V
1805.005	31.40	2.64	43.68	47.43	37.79	74.00	-36.21	Pass	V
4818.000	34.72	6.01	44.60	48.89	45.02	74.00	-28.98	Pass	V
6461.583	36.14	7.32	44.55	45.44	44.35	74.00	-29.65	Pass	V
7227.000	36.42	6.95	44.79	44.84	43.42	74.00	-30.58	Pass	V
9636.000	37.91	7.00	45.57	41.22	40.56	74.00	-33.44	Pass	V

Test mode:		Transmitting		Test Frequency :		2434MHz			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB μ V)	Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Result	Antenna Polaxis
1289.885	30.43	2.00	44.26	46.91	35.08	74.00	-38.92	Pass	H
1791.273	31.38	2.63	43.69	47.53	37.85	74.00	-36.15	Pass	H
4868.000	34.82	6.11	44.60	52.59	48.92	74.00	-25.08	Pass	H
5850.919	35.79	7.29	44.51	45.98	44.55	74.00	-29.45	Pass	H
7302.000	36.43	6.87	44.85	44.99	43.44	74.00	-30.56	Pass	H
9736.000	38.02	7.09	45.55	42.15	41.71	74.00	-32.29	Pass	H
1232.117	30.30	1.91	44.34	47.66	35.53	74.00	-38.47	Pass	V
1809.605	31.41	2.65	43.67	46.97	37.36	74.00	-36.64	Pass	V
4868.000	34.82	6.11	44.60	42.92	39.25	74.00	-34.75	Pass	V
6267.190	36.04	7.37	44.53	45.85	44.73	74.00	-29.27	Pass	V
7302.000	36.43	6.87	44.85	44.65	43.10	74.00	-30.90	Pass	V
9736.000	38.02	7.09	45.55	42.37	41.93	74.00	-32.07	Pass	V

Test mode:		Transmitting		Test Frequency :		2468MHz			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB μ V)	Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Result	Antenna Polaxis
1316.422	30.49	2.04	44.22	46.99	35.30	74.00	-38.70	Pass	H
1759.638	31.33	2.59	43.72	47.01	37.21	74.00	-36.79	Pass	H
4936.000	34.97	6.24	44.60	50.70	47.31	74.00	-26.69	Pass	H
6267.190	36.04	7.37	44.53	45.85	44.73	74.00	-29.27	Pass	H
7404.000	36.44	6.77	44.94	48.20	46.47	74.00	-27.53	Pass	H
9872.000	38.17	7.22	45.52	43.11	42.98	74.00	-31.02	Pass	H
1238.405	30.32	1.92	44.33	46.61	34.52	74.00	-39.48	Pass	V
1809.605	31.41	2.65	43.67	48.44	38.83	74.00	-35.17	Pass	V
4936.000	34.97	6.24	44.60	49.30	45.91	74.00	-28.09	Pass	V
6283.164	36.05	7.37	44.53	45.88	44.77	74.00	-29.23	Pass	V
7404.000	36.44	6.77	44.94	44.83	43.10	74.00	-30.90	Pass	V
9872.000	38.17	7.22	45.52	42.64	42.51	74.00	-31.49	Pass	V

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} - \text{Correct Factor}$$

$$\text{Correct Factor} = \text{Preamplifier Factor} - \text{Antenna Factor} - \text{Cable Factor}$$

Scan from the test data, The average value is lower than limit, and The below the limit need not be reported, so only the peak value had been displayed.
- 2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

7.3 Emissions Out of Band-edge

Test Requirement: 47 CFR Part 15C Section 15.209 and 15.205

Test Method: ANSI C63.10

Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Limit(Band Edge): Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Frequency	Limit (dB μ V/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test Setup:

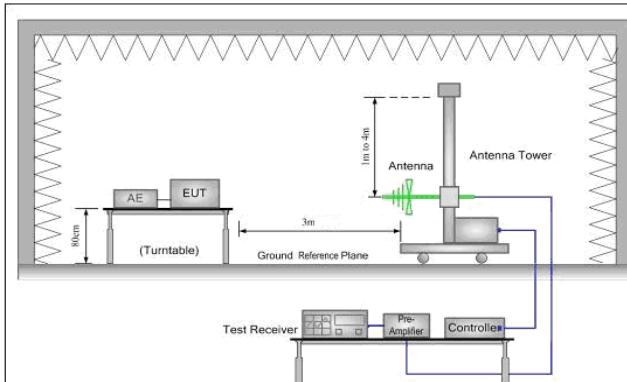


Figure 1. 30MHz to 1GHz

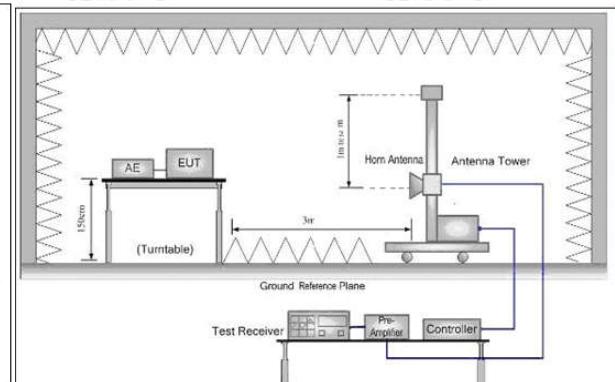


Figure 2. Above 1 GHz

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- Test the EUT in the lowest channel , the Highest channel
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

Instruments Used:

Refer to section 6 for details

Test Mode:

Transmitting mode

Test Results:

Pass

Test plot as follows:

Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Premap Factor (dB)	Read Level (dB μ V)	Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Antenna Factor (dB/m)	Remark
2390.0	32.53	3.07	44.03	44.84	36.41	74.00	-37.59	H	PK
2400.0	32.55	3.07	44.04	44.82	36.40	74.00	-37.60	H	PK
2390.0	32.53	3.07	44.03	45.01	36.58	74.00	-37.42	V	PK
2400.0	32.55	3.07	44.04	45.39	36.97	74.00	-37.03	V	PK
2483.5	32.71	3.12	44.14	45.66	37.35	74.00	-36.65	H	PK
2483.5	32.71	3.12	44.14	45.18	36.87	74.00	-37.13	V	PK

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

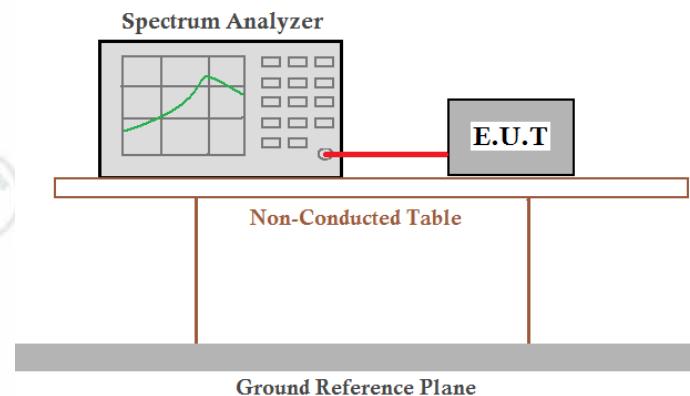
Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

7.4 20dB Bandwidth

Test Requirement: 47 CFR Part 15C Section 15.215

Test Method: ANSI C63.10

Test Setup:



Test Mode: Transmitter mode

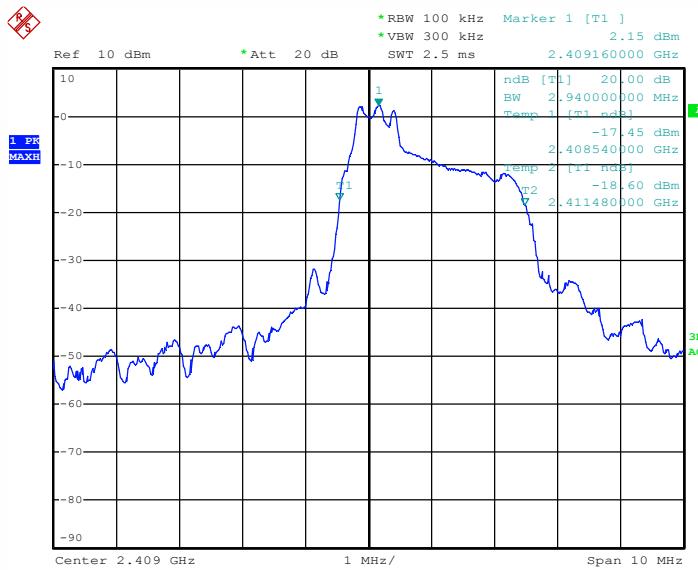
Limit: N/A

Instruments Used: Refer to section 6 for details

Test Channel/Frequency	20dB bandwidth (kHz)
2409MHz	2940
2434MHz	2320
2468MHz	2120

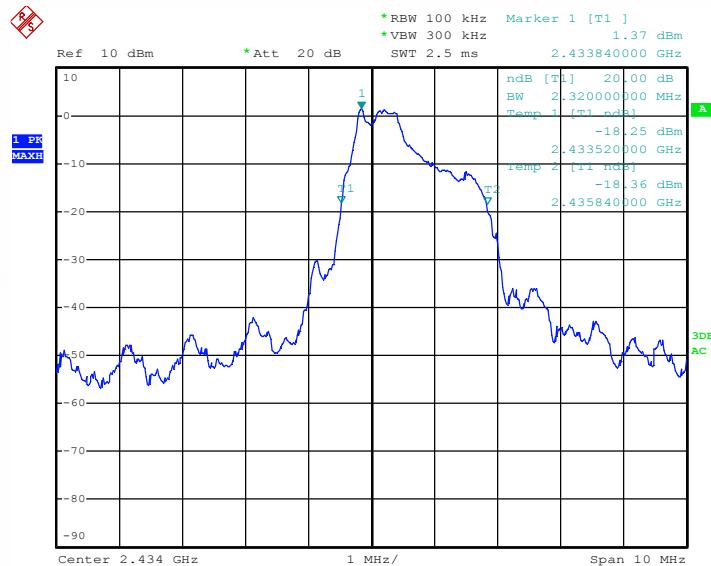
Test plot as follows:

2409MHz



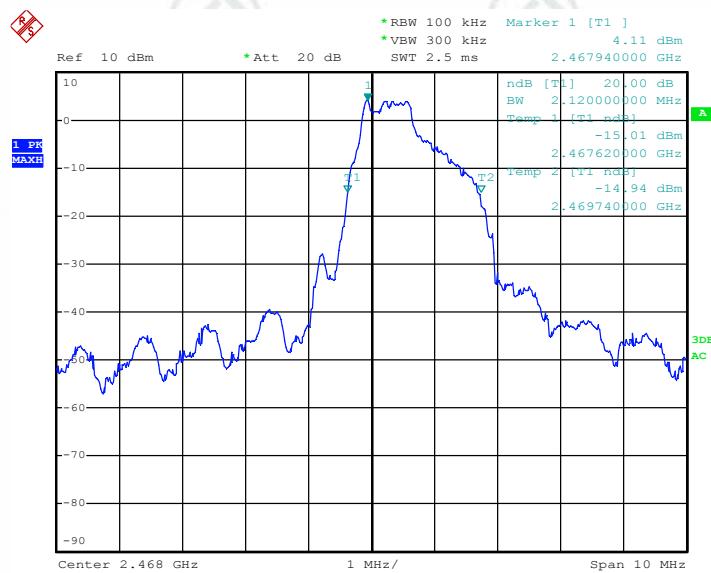
Date: 7.AUG.2017 16:14:36

2434MHz



Date: 7.AUG.2017 16:18:15

2468MHz



Date: 7.AUG.2017 16:13:15

PHOTOGRAPHS OF TEST SETUP

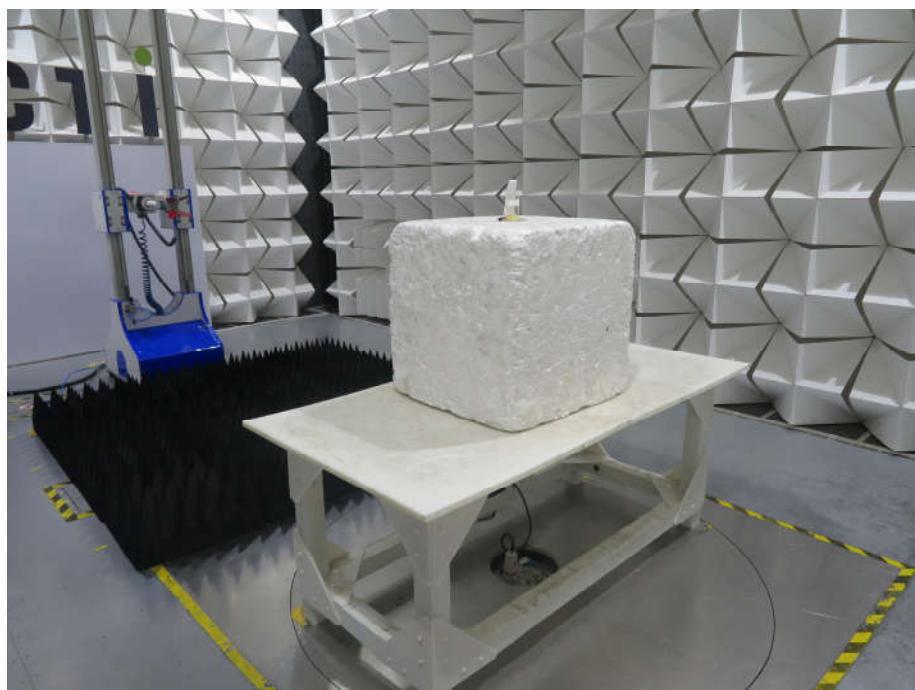
Test Model No.: TGCC-HR-B1



Radiated spurious emission Test Setup-1(Below 30MHz)



Radiated spurious emission Test Setup-2(30MHz-1GHz)



Radiated spurious emission Test Setup-3(Above 1GHz)



PHOTOGRAPHS OF EUT Constructional Details

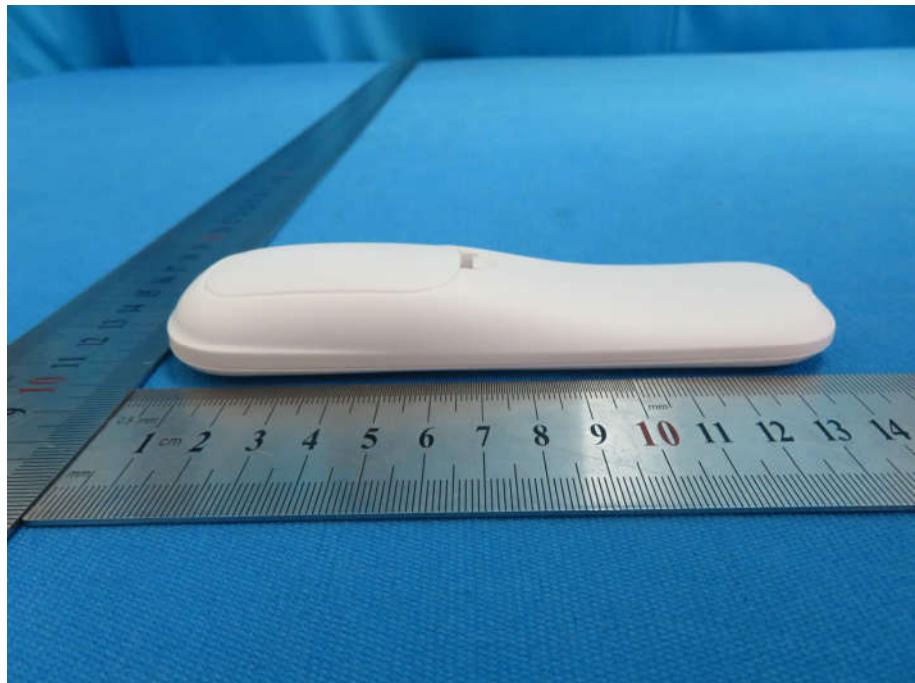
Test model No.: TGCC-HR-B1



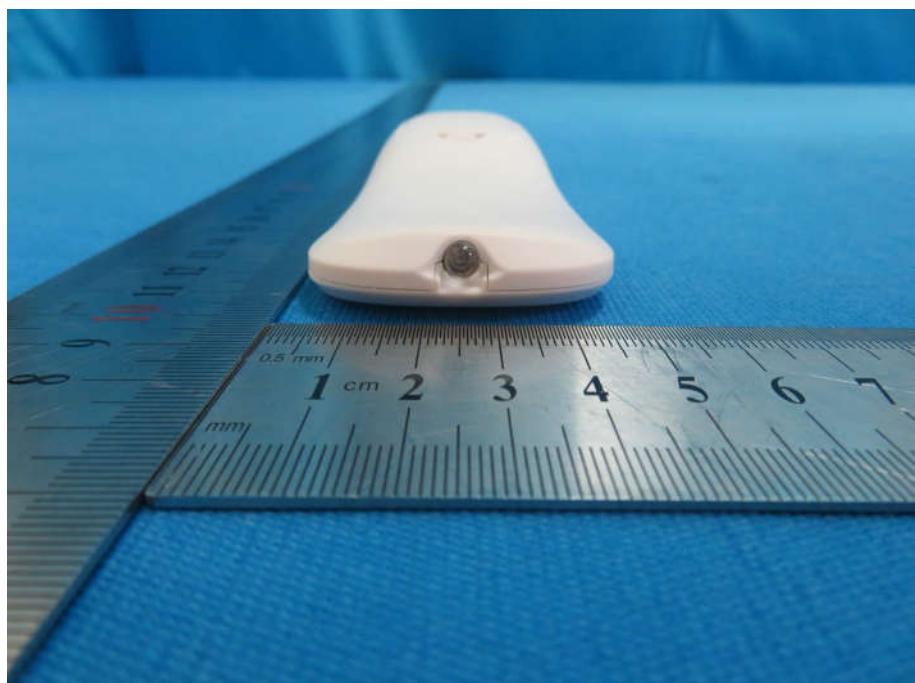
View of Product-1



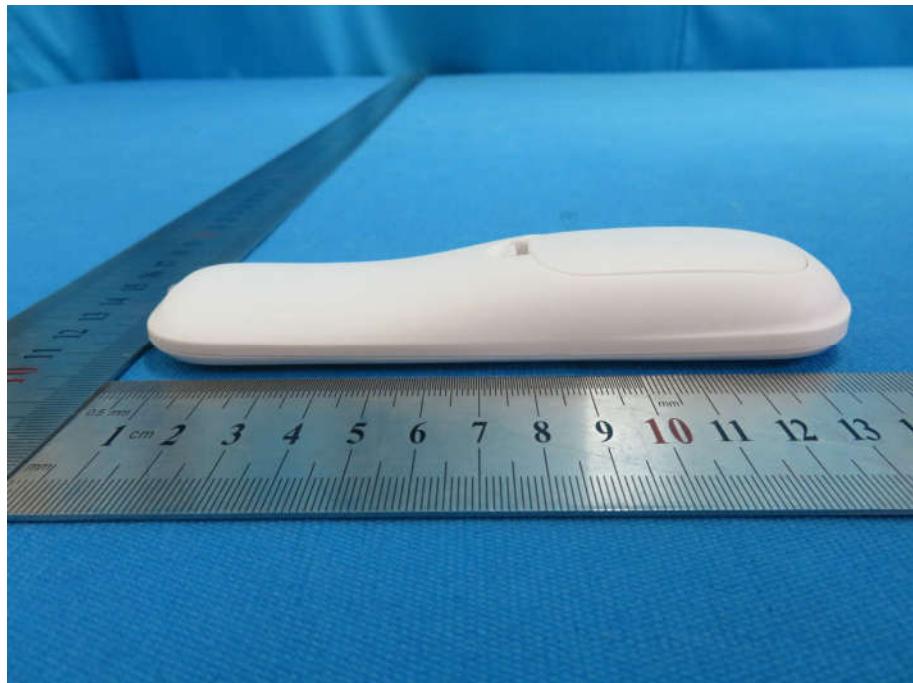
View of Product-2



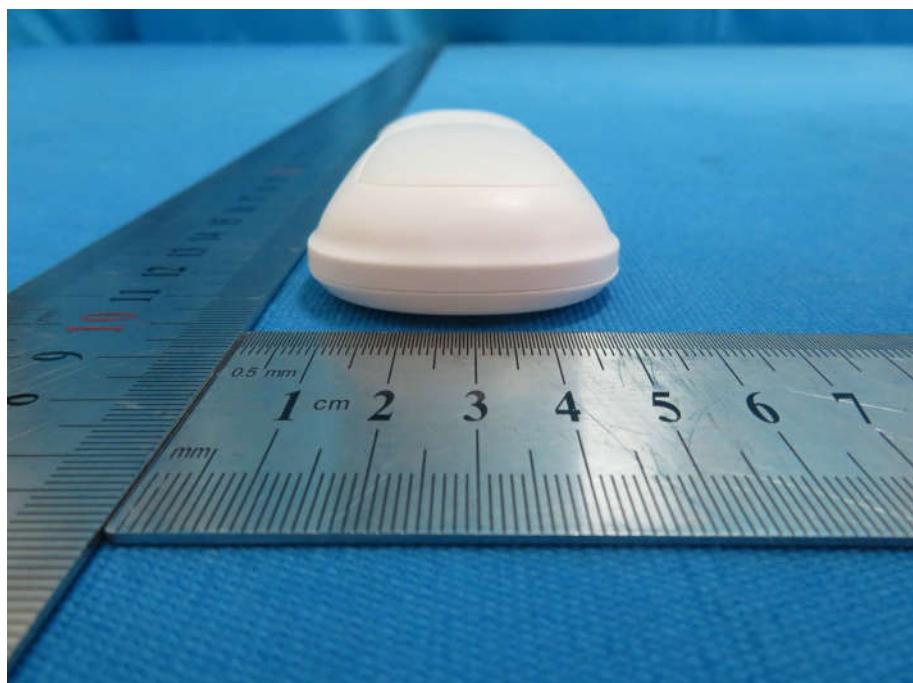
View of Product-3



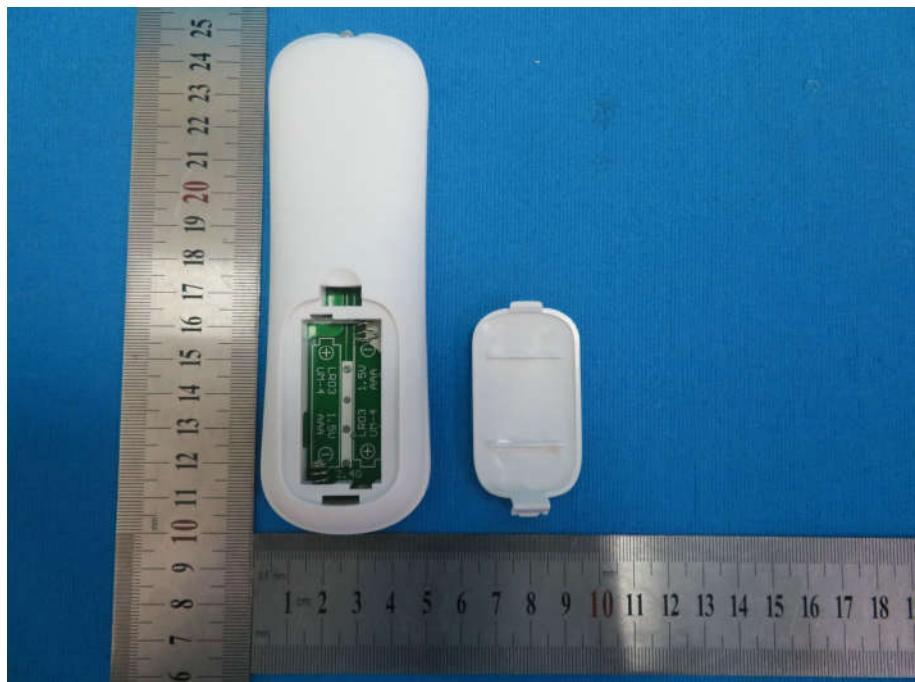
View of Product-4



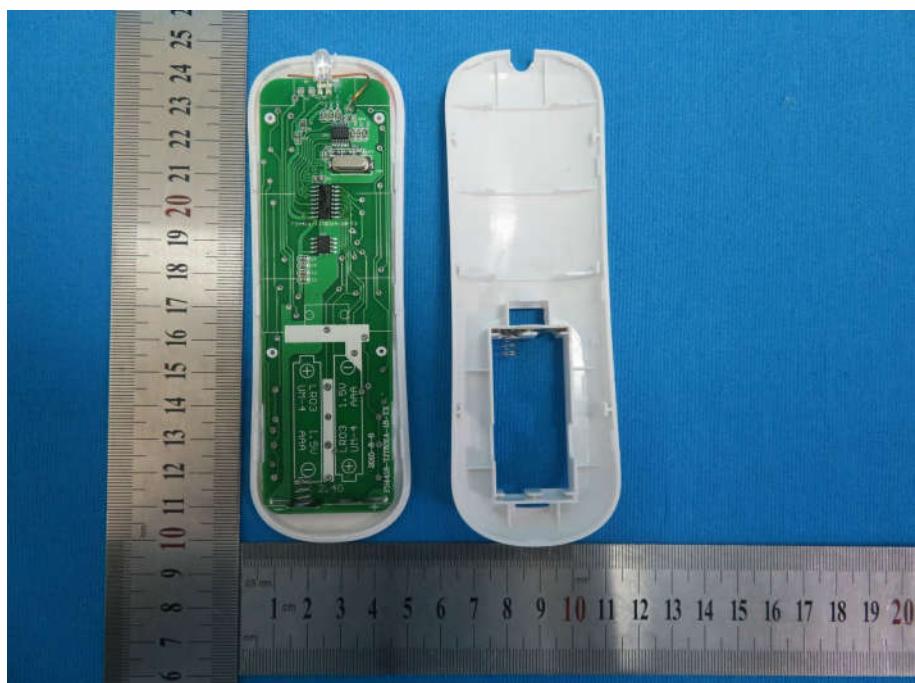
View of Product-5



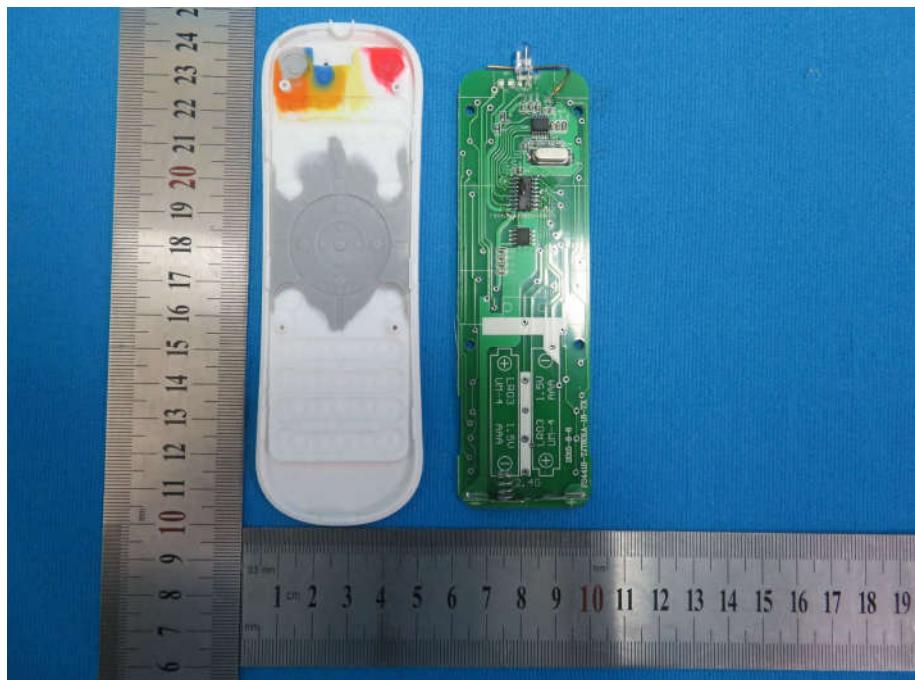
View of Product-6



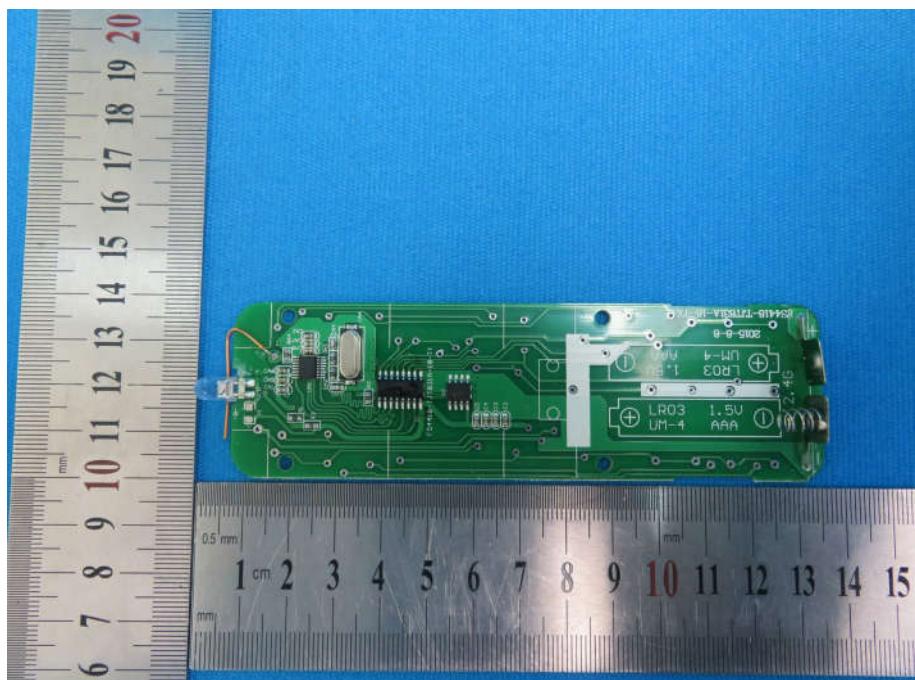
View of Product-7



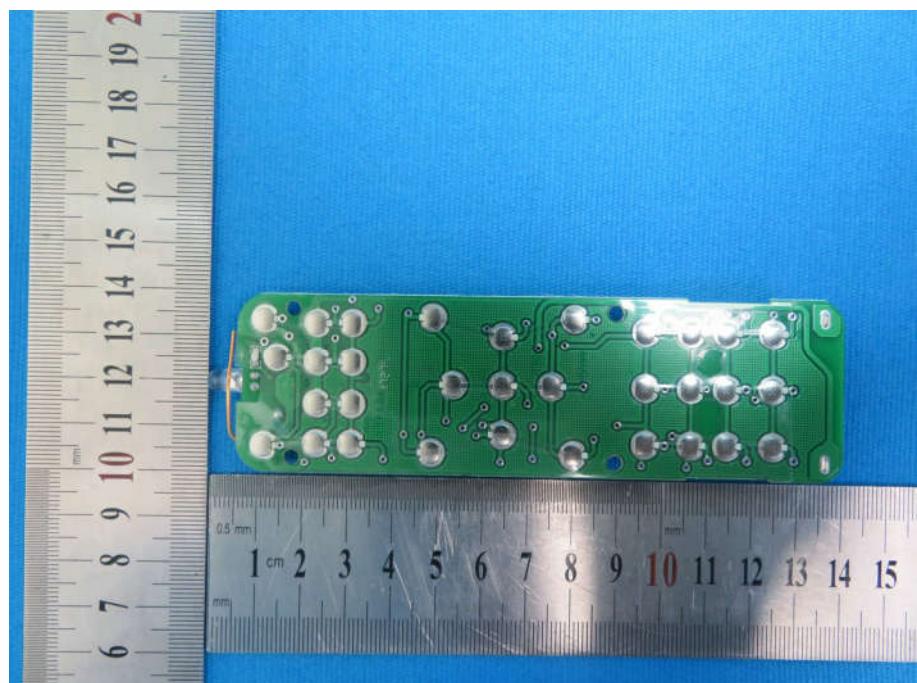
View of Product-8



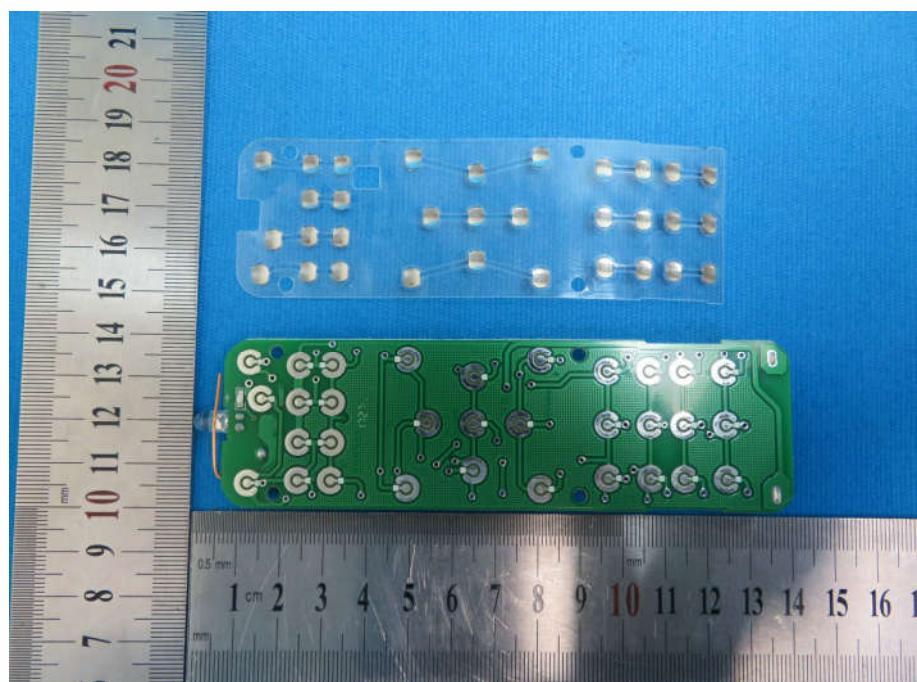
View of Product-9



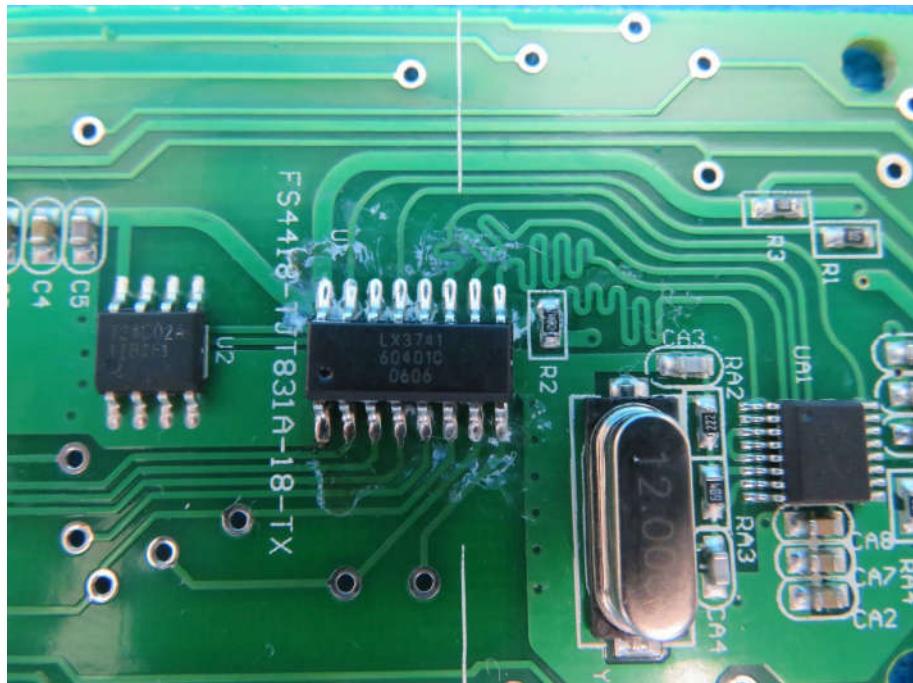
View of Product-10



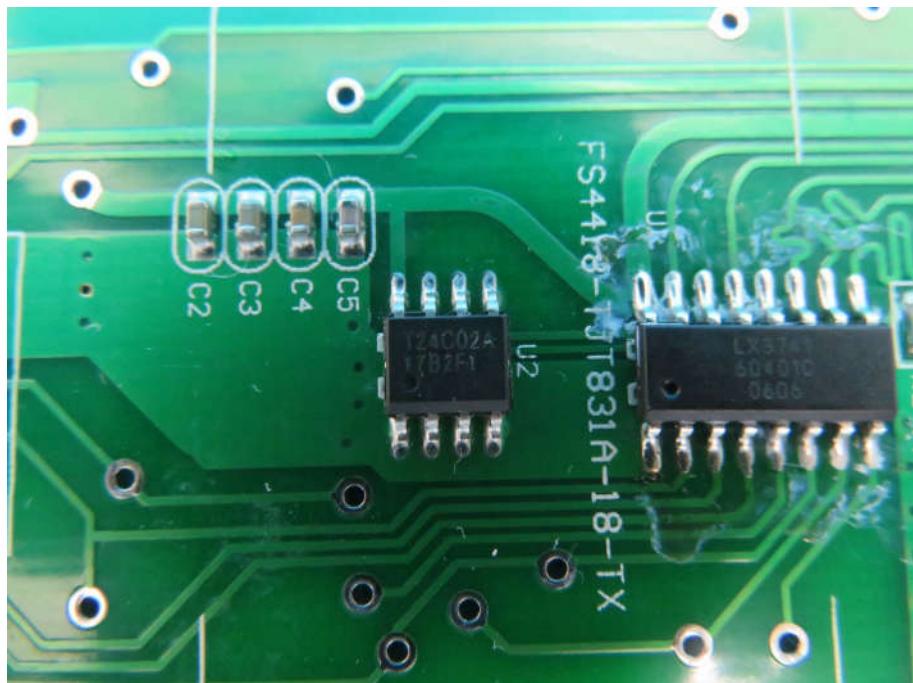
View of Product-11



View of Product-12



View of Product-13



View of Product-14

*** End of Report ***

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