



Shenzhen Asia Test Technology Co., Ltd.

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FCC RADIO TEST REPORT

FCC ID: 2AB6C-851

Product : wireless Baby Monitor

Trade Name : N/A

Model Name : 851

Addition Model : 850

Prepared for

Shenzhen Seepower Electronics Co.,LTD
3 floor, 9 Building, Guoxia industrial area Sanlian village, Longhua
Subdistrict, Baoan town, shenzhen, China

Prepared by

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TEST RESULT CERTIFICATION

Manufacture's Name : Shenzhen Seepower Electronics Co.,LTD

Address : 3 floor, 9 Building, Guoxia industrial area Sanlian village, Longhua Subdistrict, Baoan town, shenzhen, China

Product description

Product name : wireless Baby Monitor

Model and/or type reference : 851

Rating(s) : DC 5V

Standards : FCC Part15.249

Test procedure ANSI C63.10-2013

This device described above has been tested by ATT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test :

Date (s) of performance of tests : Jul. 01 2017 ~Jun. 10 2017

Date of Issue : Jul. 11 2017

Test Result : **Pass**

Reviewed by:

Seal-Chen

Approved by:

[Signature]



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Test	Test Requirement	Standard Paragraph	Result
Field Strength of Fundamental	FCC PART 15 C section 15.249 (a)	ANSI C63.10: Clause 6.6	PASS
Field Strength of Unwanted Emissions	FCC PART 15 C section 15.249 (a) section 15.249 (d)	ANSI C63.10: Clause 6.4, 6.6 and 6.7	PASS
Band Edges	FCC PART 15 C section 15.249 (d)	ANSI C63.10: Clause 6.9.2	PASS
Occupied Bandwidth	FCC PART 15 C section 15.215(c)	ANSI C63.10: Clause 6.9.1	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C section 15.207	ANSI C63.10: Clause 6.2	PASS
Antenna Requirement	FCC PART 15 C section 15.203	FCC PART 15 C section 15.203	PASS



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1.1 TEST FACILITY

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

Shenzhen Asia Test Technology Co.,Ltd.
7 / F, Xinwei Building, Gushu Village, Xixiang Town, Baoan District, Shenzhen, China

FCC Registration No.: 348715

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

EUT Name:	wireless Baby Monitor
Model No.:	851
Addition Model:	850
Brand Name:	N/A
Model Differences:	All models are identical except model name and colors.
Operation frequency:	2410.89 MHz to 2471.64 MHz
Number of channel:	15 channels
Modulation Type:	GFSK
Antenna Type:	FPCB antenna
Antenna Gain:	0 dBi
Power Supply Range:	DC 5V by adapter
Adapter:	M/N:SBJ-001 Input:100-240V~, 50/60Hz, 0.18A Output:5Vdc, 1A
Battery:	N/A
H/W No.:	CV371PBV02_TX_MAIN
S/W No.:	V1.1

Description of Channel:					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2410.890	07	2434.515	13	2461.515
02	2417.640	08	2441.265	14	2464.890
03	2421.015	09	2448.015	15	2471.640
04	2424.390	10	2451.390		
05	2427.765	11	2454.765		
06	2431.140	12	2458.140		



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
CH01	CH1
Mode 2	CH8
Mode 3	CH15
Mode 4	Link

For Conducted Emission	
Final Test Mode	Description
Mode 4	Link

For Radiated Emission	
Final Test Mode	Description
CH01	CH1
Mode 2	CH8
Mode 3	CH15
Mode 4	Link

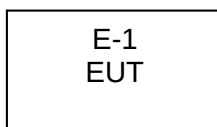
Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use full-charge battery.

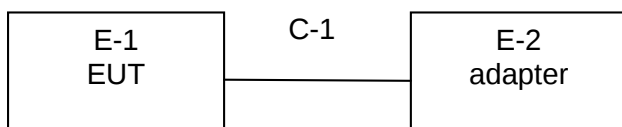


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Spurious Emission Test





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2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	wireless Baby Monitor	N/A	851	N/A	EUT
E-2	Adapter	N/A	SBJ-001	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.5m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Equipment No.	Instrument	Manufacturer	Model Name	Serial Number	Specification	Cal. Data
1	Semi-anechoic chamber	Changzhou Chengyu	EC3088	N/A	9*6*6m	10/25/2016
2	Broadband antenna	R&S	VULB 9160	VULB91 60-516	30MHz-1500 MHz	10/25/2016
3	Horn antenna	R&S	BBHA 9120D	10087	1GHz-18GHz	06/05/2016
4	Test receiver	R&S	ESCI	101686	9KHz-3GHz	10/25/2016
5	EMI Measuring Receiver	Agilent	N9020A	MY4910010 4	20KHz-26.5GHz	10/25/2016
6	Multi-device controller	MF	MF-7868	MF78680 8762	N/A	10/25/2016
7	Amplifier	EM	EM-30180	060538	1GHz-18GHz	10/25/2016
8	Amplifier	Schwarzbeck	BBV 9475	BBV 9475-663	1GHz-18GHz	06/05/2012
9	Spectrum Analyzer	agilent	E4440B	US44300368	1GHz-26.5GHz	06/05/2016
10	Test receiver	R&S	ESCI	101689	9KHz-3GHz	10/25/2016
11	LISN	R&S	NSLK81 26	8126466	9k-30MHz	10/25/2016
12	LISN	Narda	L2-16B	5589756	9k-30MHz	10/25/2016
13	Radiated Cable 1#	FUJIKURA	5D-2W	01	30MHz-1GHz	10/25/2016
14	Radiated Cable 2#	FUJIKURA	10D2W	02	1GHz -25GHz	10/25/2016
15	Conducted Cable 1#	FUJIKURA	1D-2W	01	9KHz-30MHz	10/25/2016
16	SMA Antenna connector	Dosin	Dosin-SMA	N/A	N/A	10/25/2016

Note: The SMA antenna connector is soldered on the PCB board in order to perform conducted tests and this SMA antenna connector is listed in the equipment list.
The Cal.Interval was one year



3. ANTENNA REQUIREMENT

3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

3.2 EUT ANTENNA

The EUT antenna is FPCB Antenna with 0dBi gain. It comply with the standard requirement.



3.3 CONDUCTED EMISSION MEASUREMENT

3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	(dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



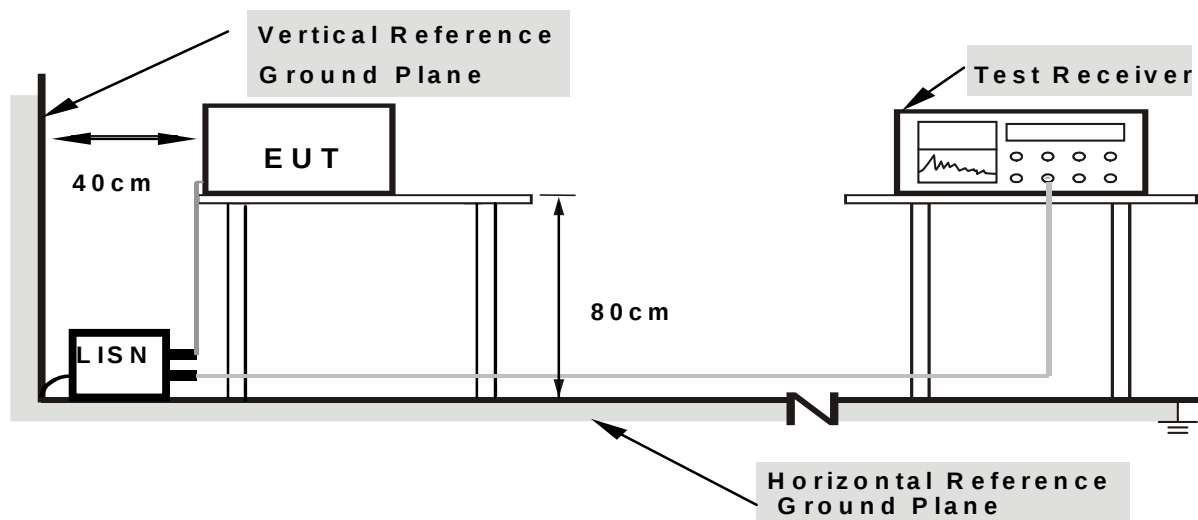
3.3.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes



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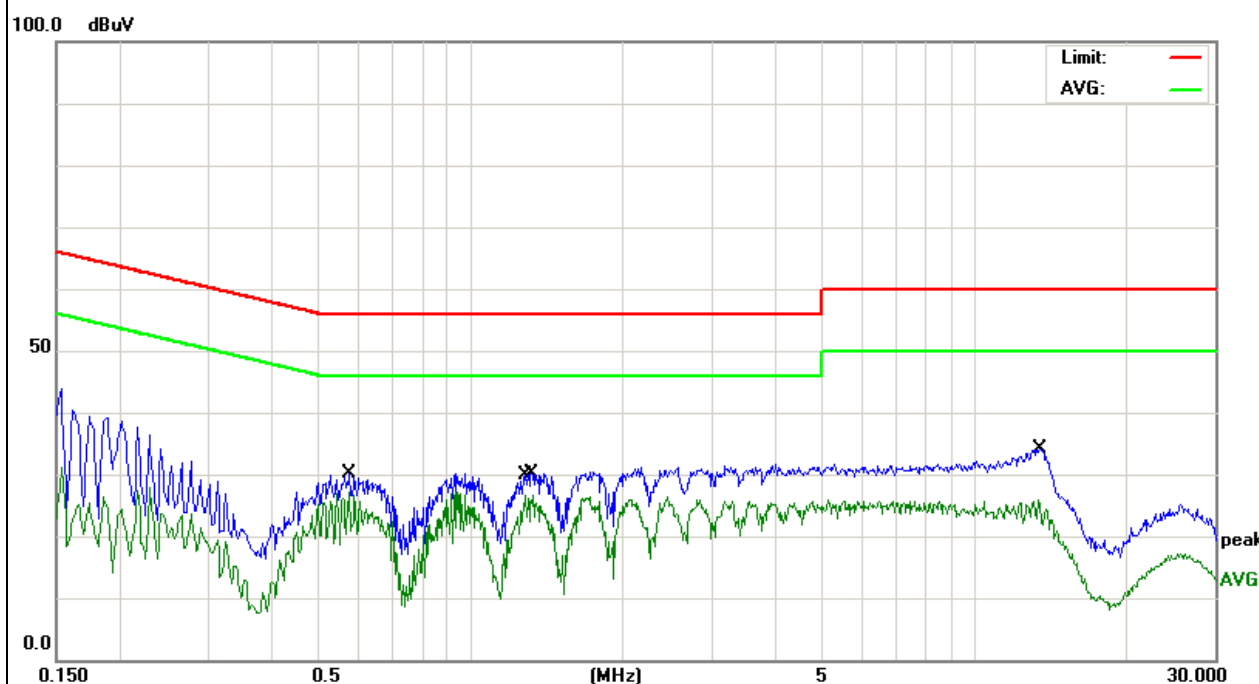
3.2.5 TEST RESULT

EUT :	wireless Baby Monitor	Model Name. :	851
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2017-07-06
Test Mode :	Link	Phase :	L
Test Voltage :	DC 5V from charger AC 120V/60Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5740	20.15	10.00	30.15	56.00	-25.85	QP	
2	*	0.5740	17.03	10.00	27.03	46.00	-18.97	AVG	
3		1.2860	16.73	9.96	26.69	46.00	-19.31	AVG	
4		1.3180	20.29	9.96	30.25	56.00	-25.75	QP	
5		13.4060	24.40	1.36	25.76	50.00	-24.24	AVG	
6		13.4420	32.69	1.36	34.05	60.00	-25.95	QP	

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit





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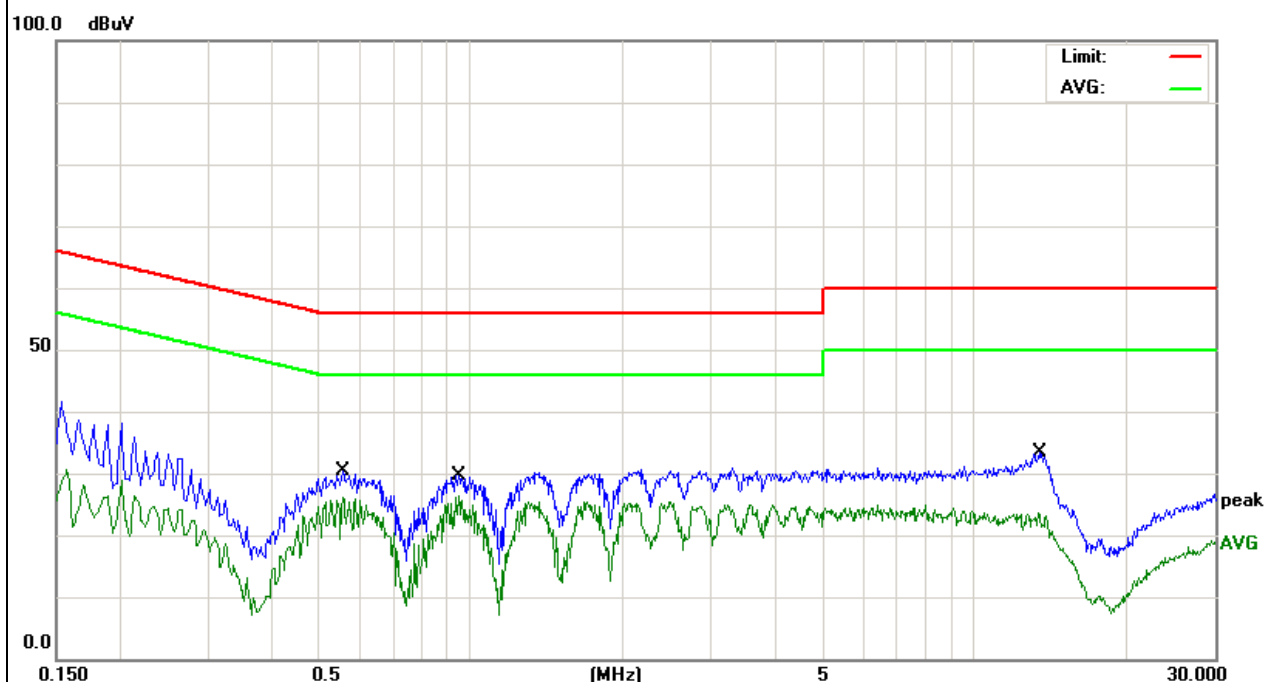
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EUT :	wireless Baby Monitor	Model Name. :	851
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2017-07-25
Test Mode :	Link	Phase :	N
Test Voltage :	DC 5V from charger AC 120V/60Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5580	20.42	10.00	30.42	56.00	-25.58	QP	
2		0.5580	16.04	10.00	26.04	46.00	-19.96	AVG	
3		0.9460	19.71	9.94	29.65	56.00	-26.35	QP	
4	*	0.9460	16.32	9.94	26.26	46.00	-19.74	AVG	
5		13.3740	22.32	1.36	23.68	50.00	-26.32	AVG	
6		13.4460	31.98	1.36	33.34	60.00	-26.66	QP	

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit





3.4 RADIATED EMISSION MEASUREMENT

3.4.1 Radiated Emission Limits (FCC 15.209)

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.249)

Frequency of Emission (MHz)	Field Strength of fundamental (millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
2400 - 2483.5	50	500

Notes:

- (1) 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.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.4.2 TEST PROCEDURE

1) 9 kHz to 30 MHz emissions:

For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.10. The centre of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT, During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

2) 30 MHz to 1 GHz emissions:

For testing performed with the bi-log type antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

3) 1 GHz to 25 GHz emissions:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2007 was used to perform radiated emission test above 1 GHz.

For testing performed with the horn antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360°, the antenna height scan between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

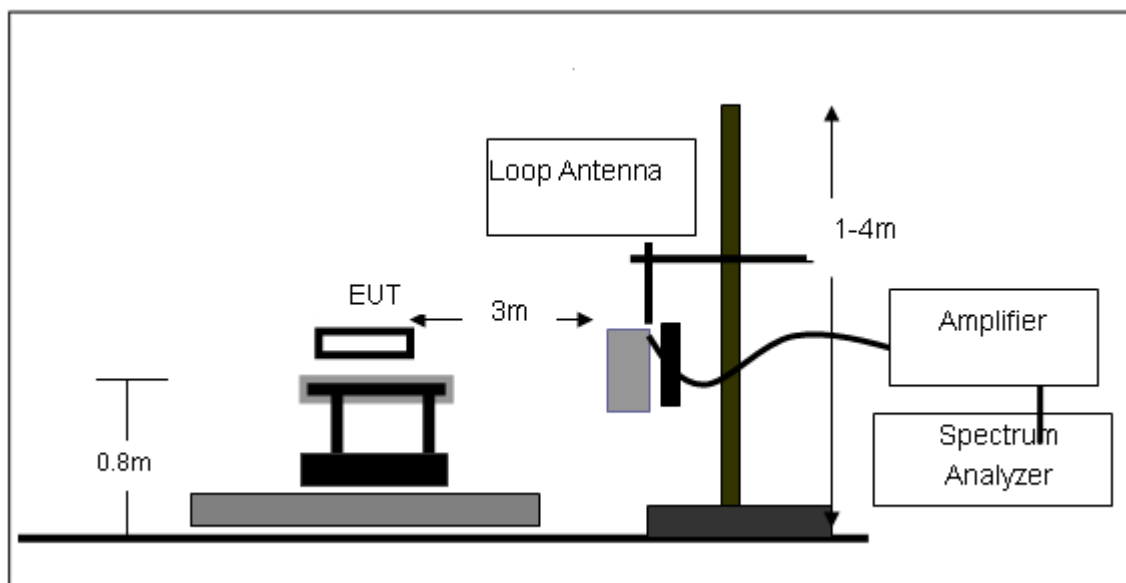
3.4.3 DEVIATION FROM TEST STANDARD

No deviation

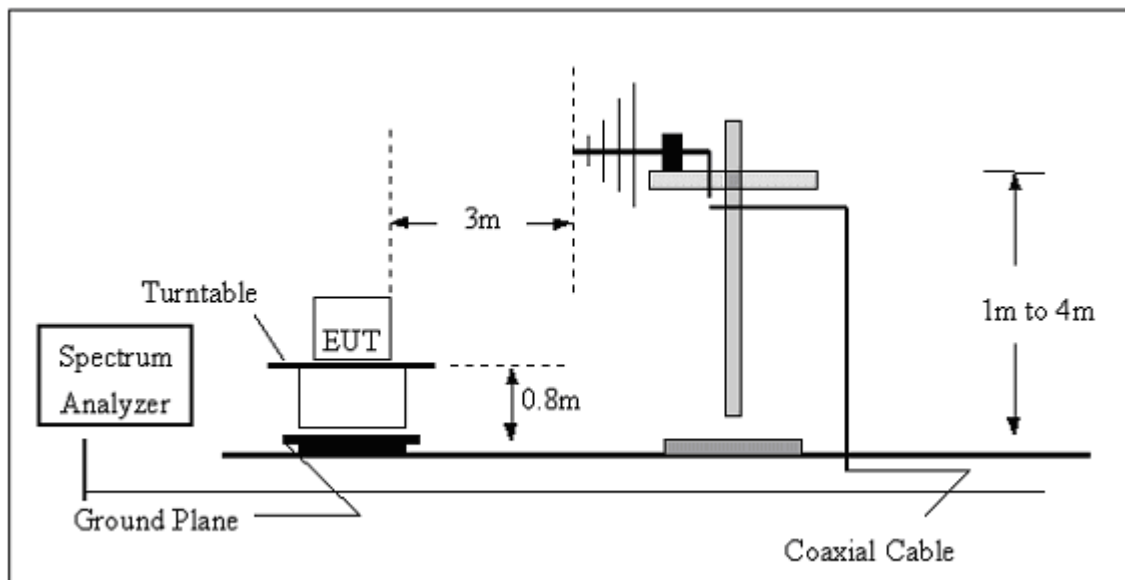


3.4.4 TEST SETUP

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



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz

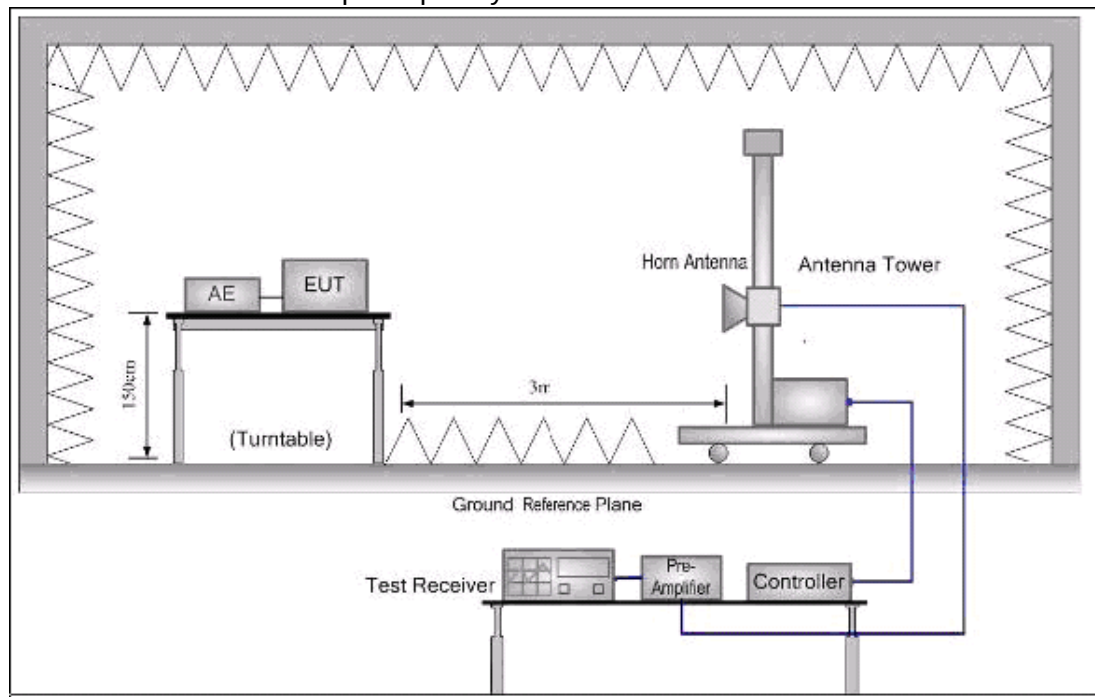




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(C) Radiated Emission Test-Up Frequency Above 1GHz





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Field Strength of Fundamental

Frequency (MHz)	Reading Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	amplifier factor (dB)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Detector type	Limits PK/AV (dBuV/m)	Margin (dB)
2400	50.32	25.21	6.51	35.24	46.8	H	Peak	74	-27.2
2400	37.27	25.21	6.51	35.24	33.75	H	AVG	54	-20.25
2410.89	93.82	25.87	6.56	35.1	91.15	H	Peak	114	-22.85
2410.89	90.31	25.87	6.56	35.1	87.64	H	AVG	94	-6.36
2441.265	93.13	25.93	6.64	35.37	90.33	H	Peak	114	-23.67
2441.265	87.92	25.93	6.64	35.37	85.12	H	AVG	94	-8.88
2471.64	95.36	26.05	6.7	35.42	92.69	H	Peak	114	-21.31
2471.64	90.84	26.05	6.7	35.42	88.17	H	AVG	94	-5.83
2483.5	47.86	26.13	6.88	35.15	45.72	H	Peak	74	-28.28
2483.5	36.25	26.13	6.88	35.15	34.11	H	AVG	54	-19.89
2400	50.3	25.21	6.51	35.24	46.78	V	Peak	74	-27.22
2400	38.78	25.21	6.51	35.24	35.26	V	AVG	54	-18.74
2410.89	93	25.87	6.56	35.1	90.33	V	Peak	114	-23.67
2410.89	88.29	25.87	6.56	35.1	85.62	V	AVG	94	-8.38
2441.265	92.67	25.93	6.64	35.37	89.87	V	Peak	114	-24.13
2441.265	87.92	25.93	6.64	35.37	85.12	V	AVG	94	-8.88
2471.64	93.31	26.05	6.7	35.42	90.64	V	Peak	114	-23.36
2471.64	89.05	26.05	6.7	35.42	86.38	V	AVG	94	-7.62
2483.5	47.41	26.13	6.88	35.15	45.27	V	Peak	74	-28.73
2483.5	35.83	26.13	6.88	35.15	33.69	V	AVG	54	-20.31



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Spurious Emissions

3.4.5 TEST RESULTS (BELOW 30MHz)

EUT :	wireless Baby Monitor	Model Name. :	851
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH01	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



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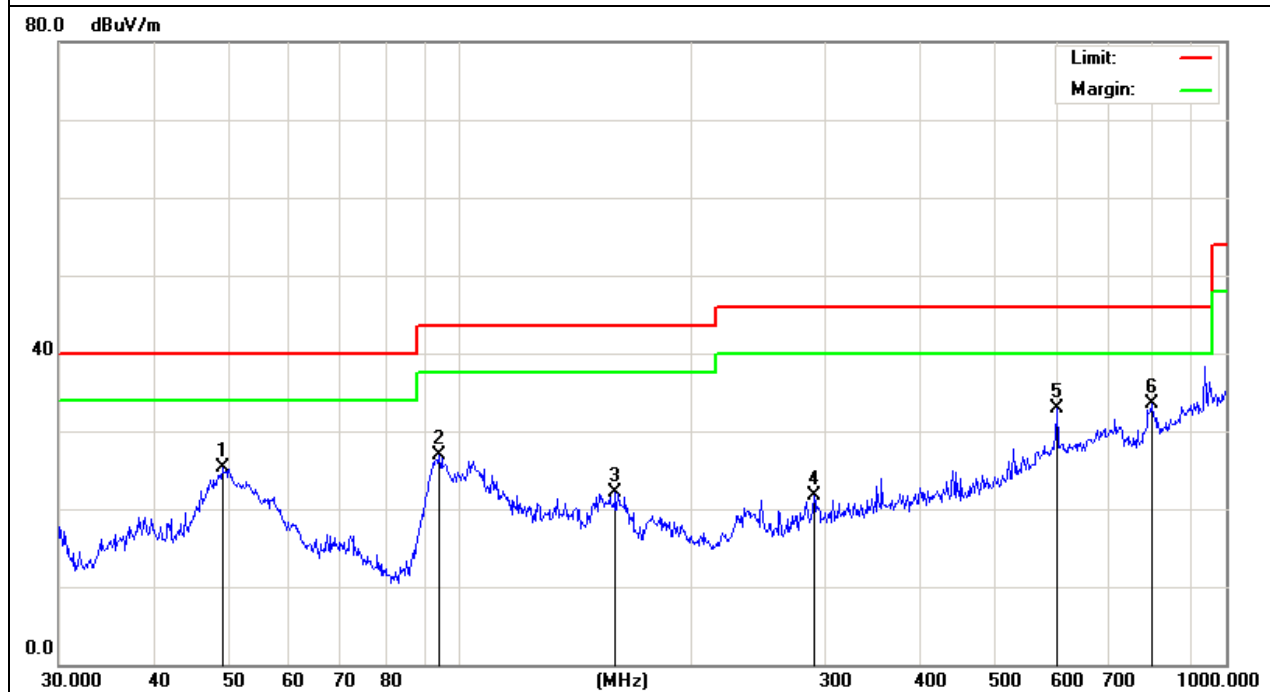
3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT :	wireless Baby Monitor	Model Name :	851
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH01	Polarization :	Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		49.0145	43.74	-18.52	25.22	40.00	-14.78	QP		
2		94.0979	44.44	-17.50	26.94	43.50	-16.56	QP		
3		159.7844	37.09	-15.01	22.08	43.50	-21.42	QP		
4		290.0172	31.84	-10.18	21.66	46.00	-24.34	QP		
5		601.4265	33.74	-0.89	32.85	46.00	-13.15	QP		
6	*	798.9797	30.10	3.44	33.54	46.00	-12.46	QP		

Remark:

Factor = Antenna Factor + Cable Loss.





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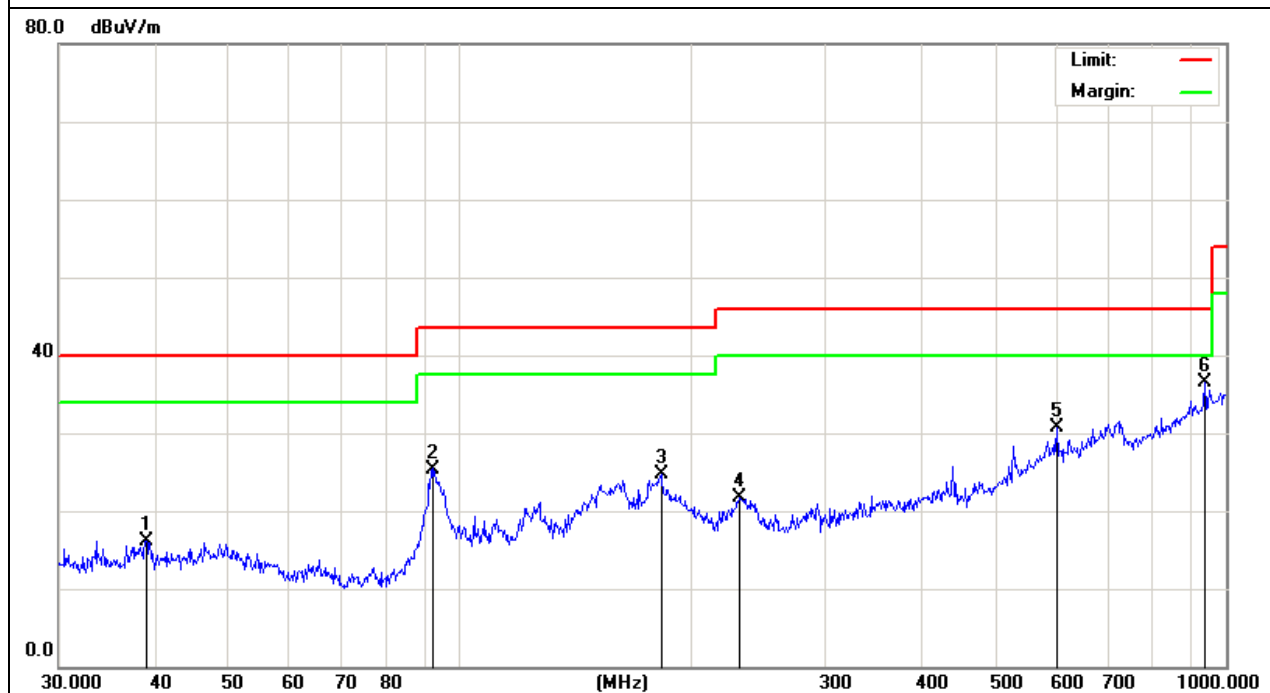
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EUT :	wireless Baby Monitor	Model Name :	851
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH01	Polarization :	Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		39.0245	30.72	-14.52	16.20	40.00	-23.80	QP		
2		92.1388	42.09	-16.69	25.40	43.50	-18.10	QP		
3		183.2005	36.12	-11.34	24.78	43.50	-18.72	QP		
4		231.7178	36.65	-14.94	21.71	46.00	-24.29	QP		
5		601.4265	32.46	-1.74	30.72	46.00	-15.28	QP		
6	*	938.8326	32.93	3.51	36.44	46.00	-9.56	QP		

Remark:

Factor = Antenna Factor + Cable Loss.



Note: test performed on TX mode1, mode2, mode3, mode1 mode is the worst mode and has been reported.



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3.4.7 TEST RESULTS (ABOVE 1000 MHZ)

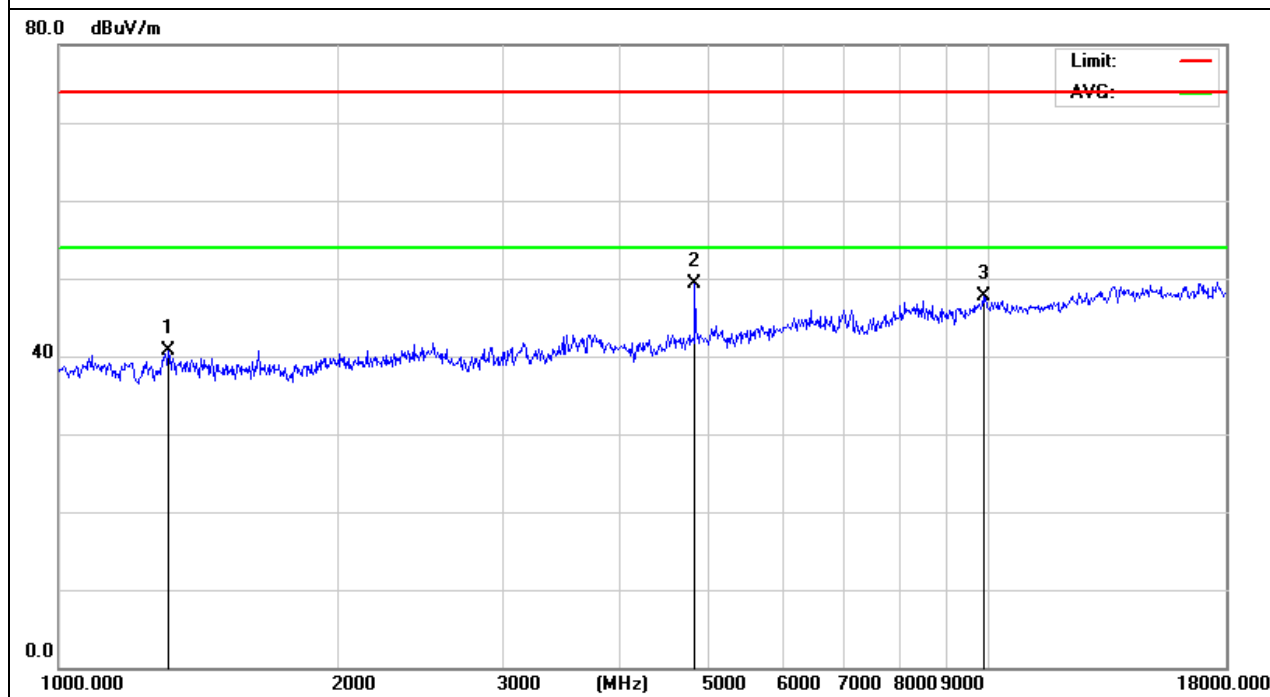
GFSK

EUT :	wireless Baby Monitor	Model Name :	851
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH01	Polarization :	Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		1312.187	52.62	-11.92	40.70	74.00	-33.30	peak		
2	*	4825.000	51.00	-1.70	49.30	74.00	-24.70	peak		
3		9866.789	41.94	5.76	47.70	74.00	-26.30	peak		

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





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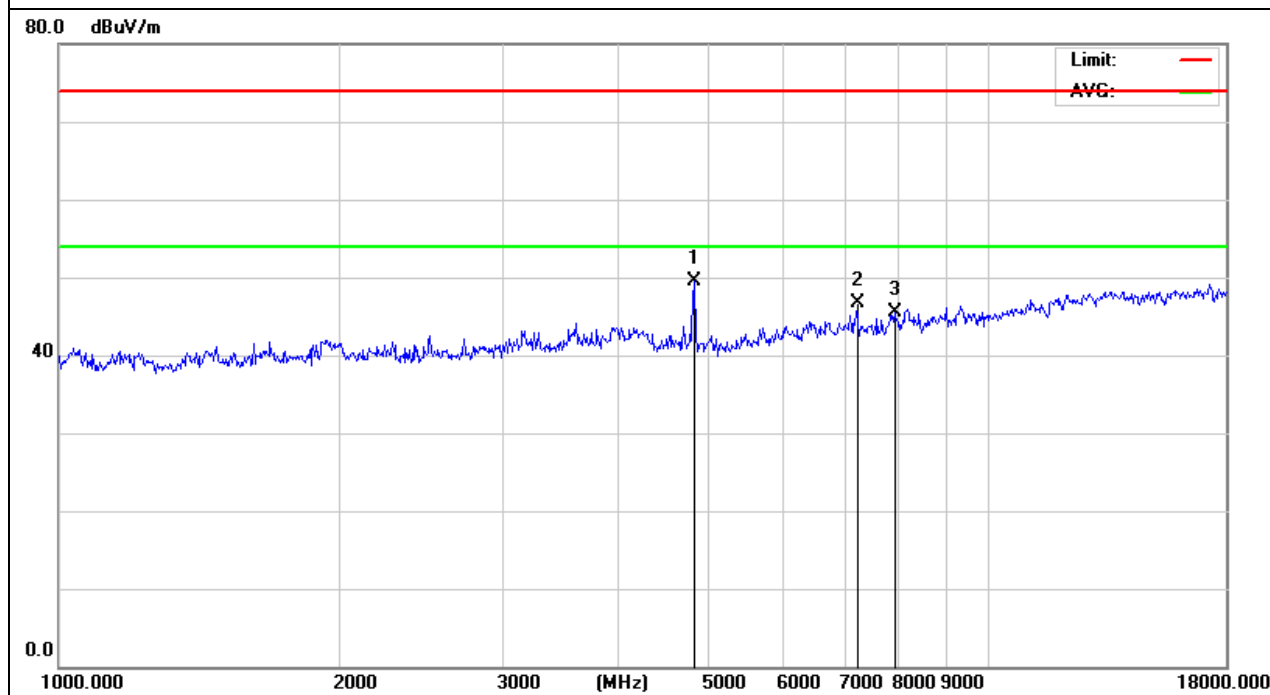
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EUT :	wireless Baby Monitor	Model Name :	851
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH01	Polarization :	Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	4825.000	51.20	-1.70	49.50	74.00	-24.50	peak		
2		7222.000	42.94	3.76	46.70	74.00	-27.30	peak		
3		7920.911	40.98	4.47	45.45	74.00	-28.55	peak		

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Note: test performed on TX mode1, mode2, mode3, mode1 mode is the worst mode and has been reported.



4. BANDWIDTH TEST

4.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below
- b. Spectrum Setting : RBW= 100KHz, VBW $\geq$ RBW, Sweep time = Auto.

4.2 DEVIATION FROM STANDARD

No deviation.

4.3 TEST SETUP





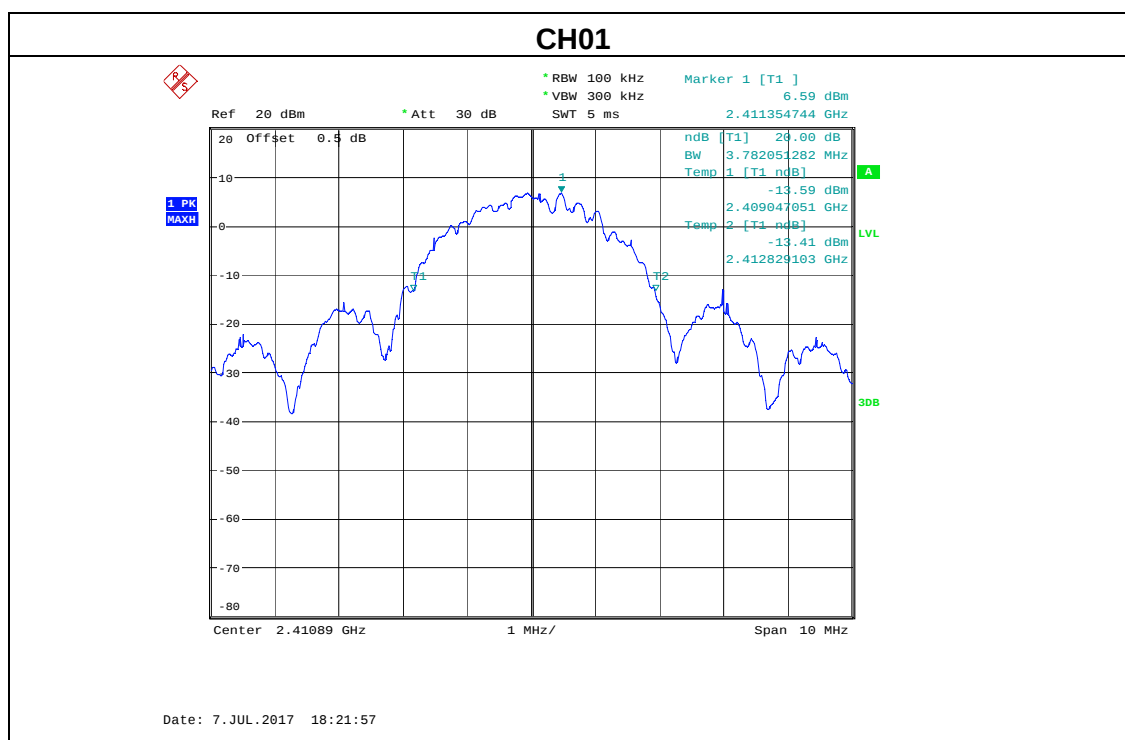
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4.4 TEST RESULTS

EUT :	wireless Baby Monitor	Model Name :	851
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V
Test Mode :	CH01 / CH08 /CH15		

Frequency	20dB Bandwidth (MHz)	Result
2410.890 MHz	3.7821	PASS
2441.265 MHz	3.7660	PASS
2471.640 MHz	3.7660	PASS

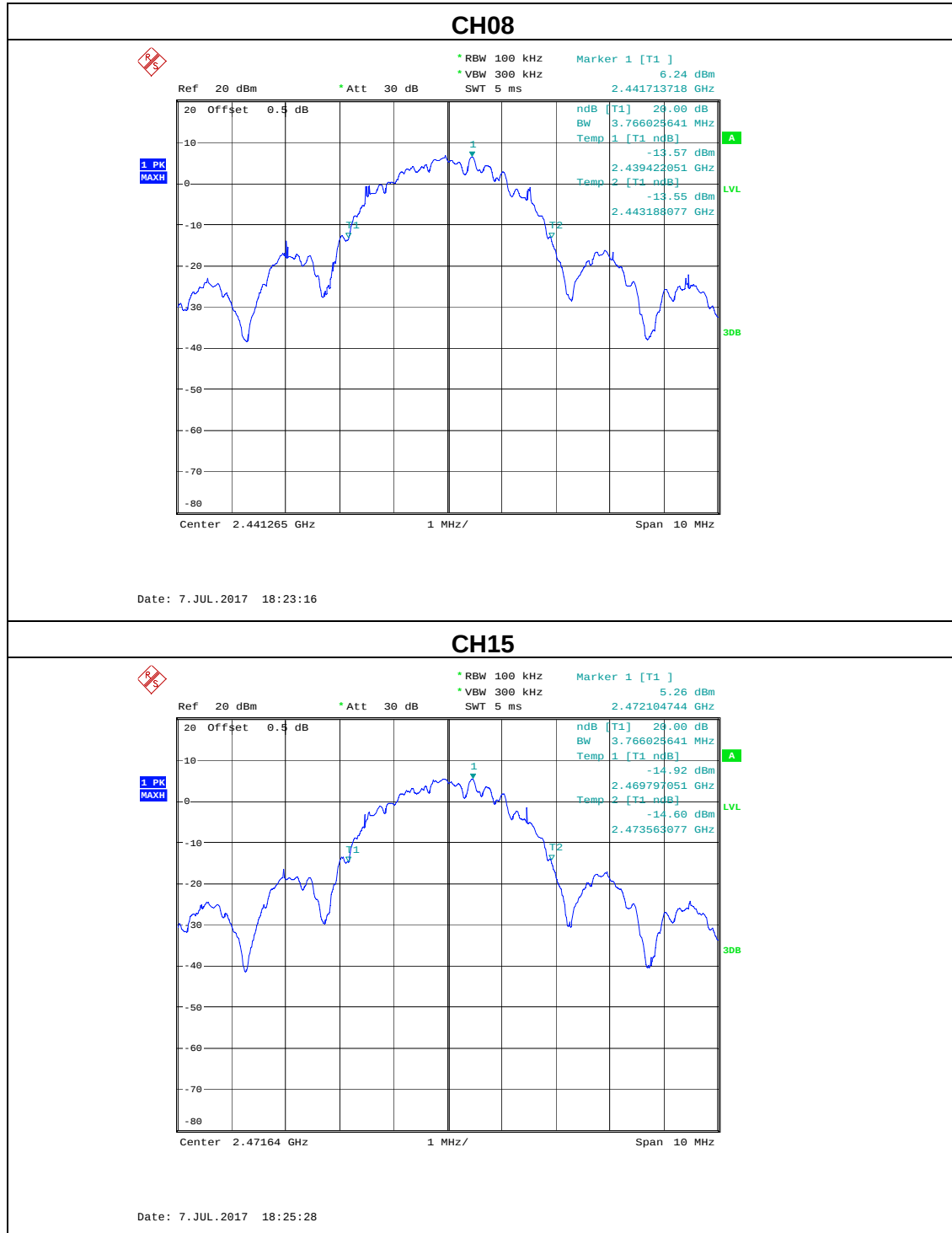




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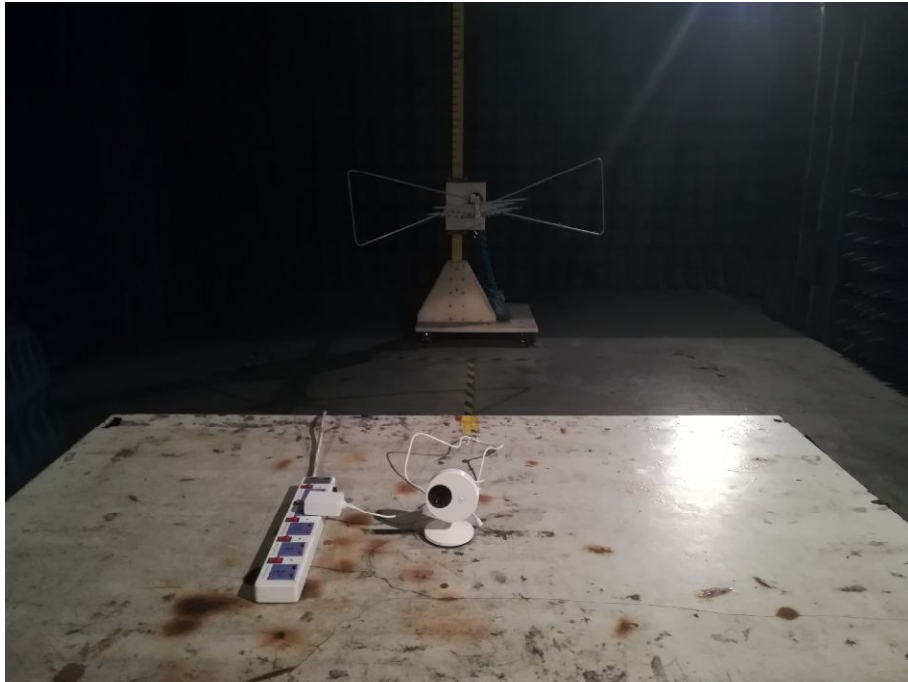


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5. EUT TEST PHOTO

Radiated Measurement Photos 30-1000MHz



Above 1GHz





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Conducted Measurement Photos

0.15-30MHz





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EUT
Photo 1



Photo 2





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Photo 3



Photo 4





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Photo 5

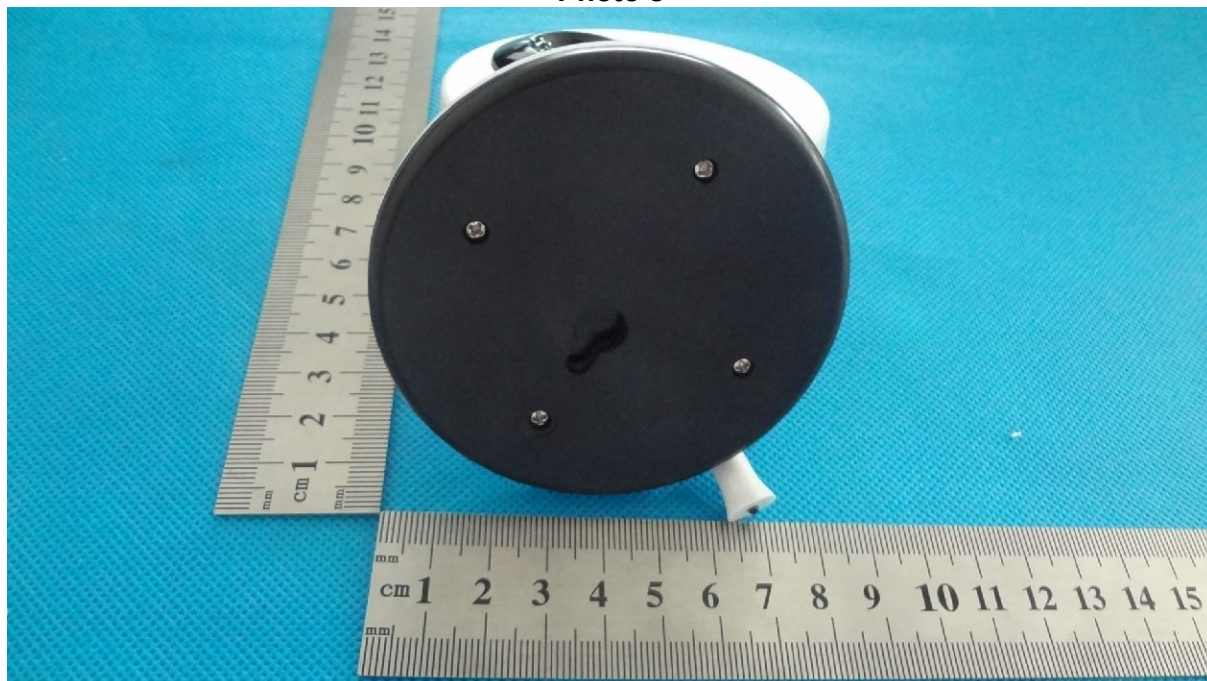


Photo 6





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Photo 7



Photo 8





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Photo 9

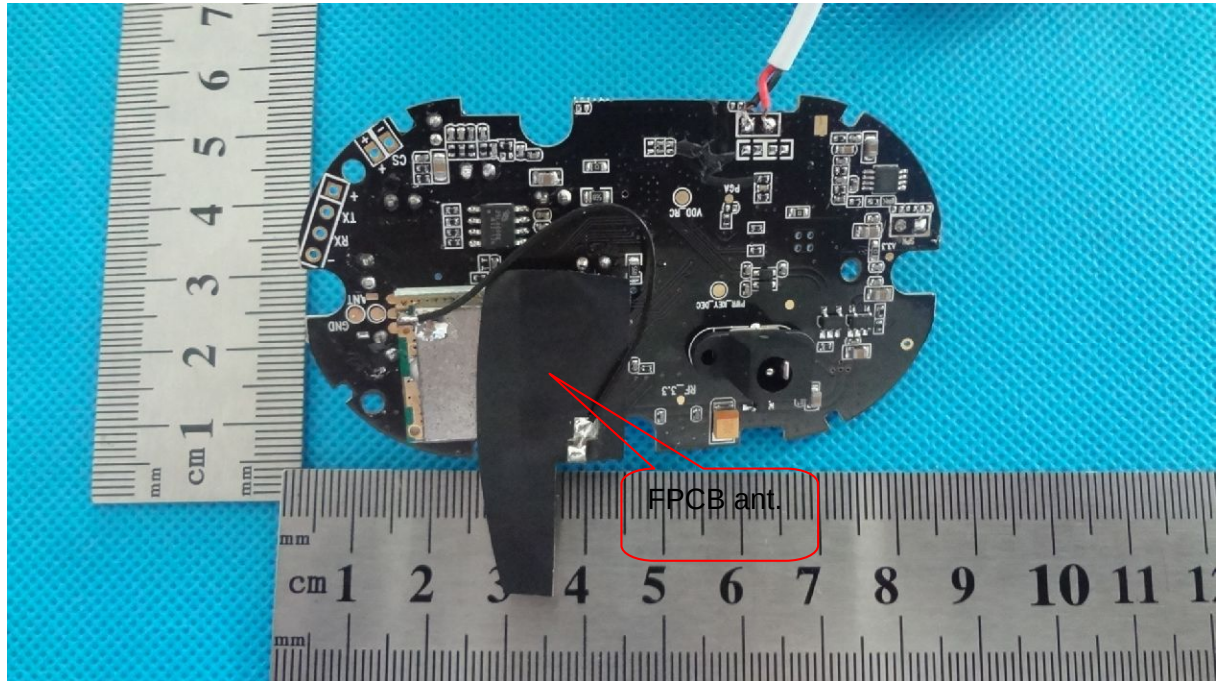
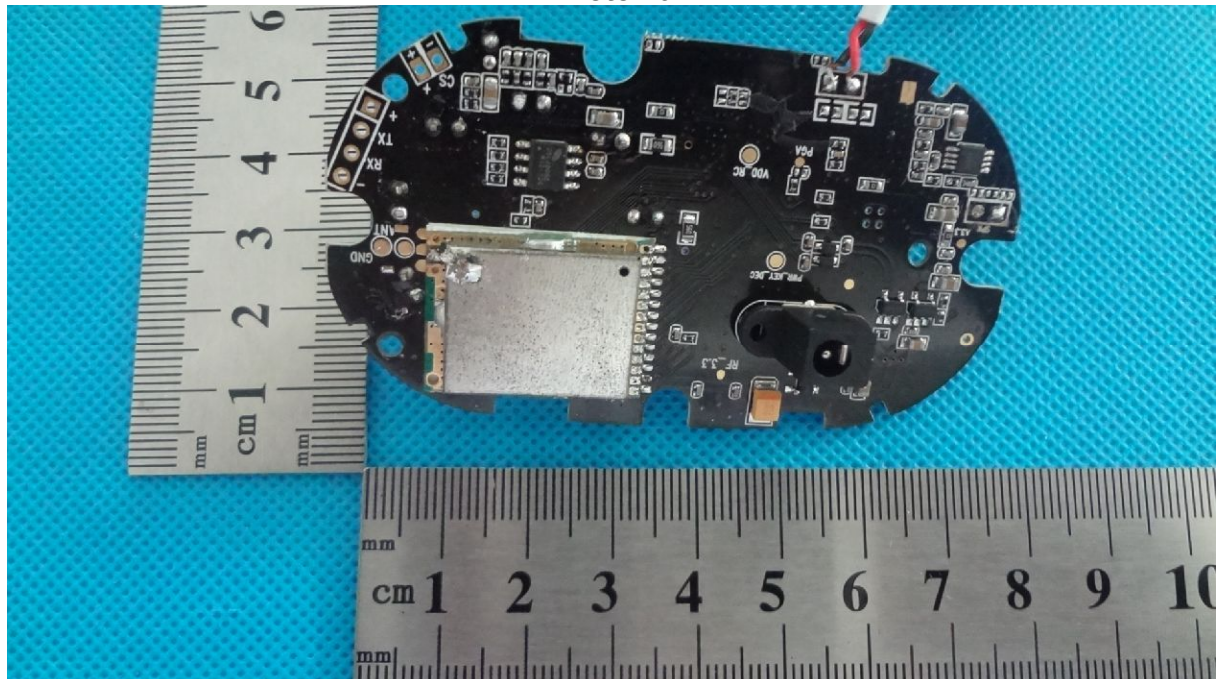


Photo 10





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Photo 11

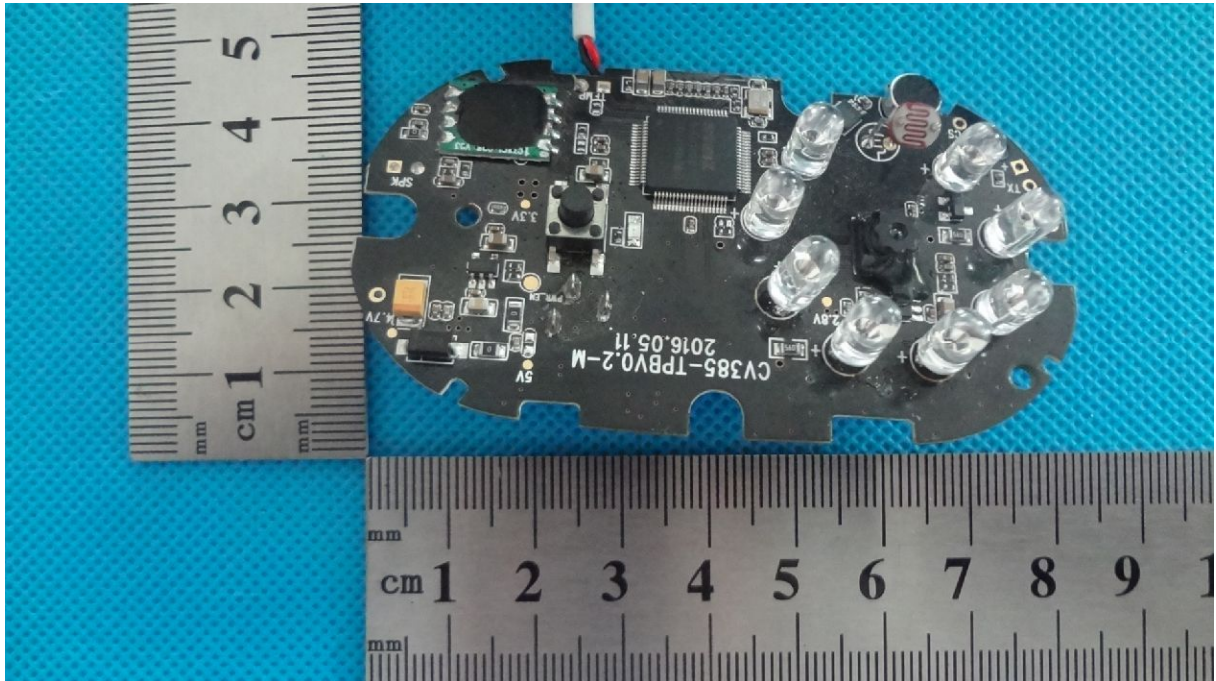
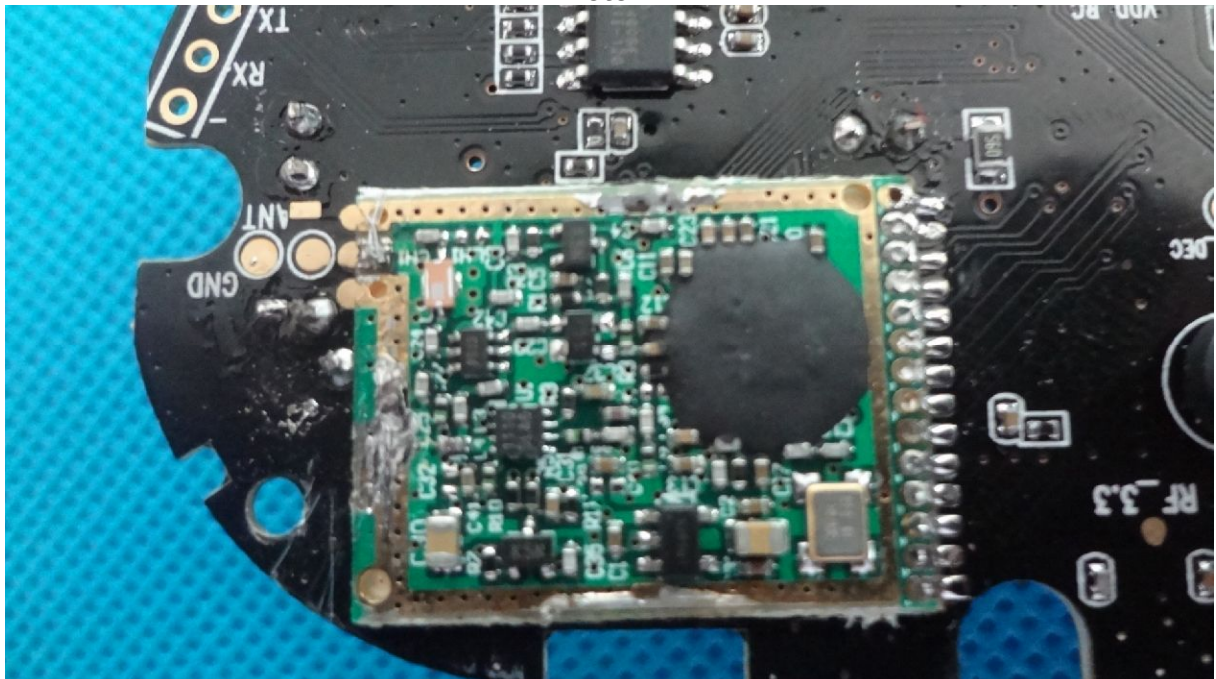


Photo 12



END OF REPORT