



FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

Graco Children's Products Inc.

Baby monitor

Model Number: PD193480

FCC ID: M6YPD193480

Prepared for : Graco Children's Products Inc.  
150 OAKLANDS BOULEVARD EXTON, PA19341

Prepared By : Audix Technology (Shenzhen) Co., Ltd.  
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Report Number : ACS-F11279  
Date of Test : Dec.04~06, 2011  
Date of Report : Dec.08, 2011

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### TEST REPORT CERTIFICATION

Applicant : Graco Children's Products Inc.  
 Manufacturer : Honor Tone Limited  
 EUT Description : Baby monitor  
 FCC ID : M6YDPD193480  
 (A) MODEL NO. : PD193480  
 (B) SERIAL NO. : N/A  
 (C) POWER SUPPLY : DC 6V  
 (D) TEST VOLTAGE : DC 6V From Adapter Input AC 120V/60Hz

Tested for comply with:  
 FCC Rules and Regulations Part 15 Subpart C:2008

Test procedure used:  
 ANSI C63.10:2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

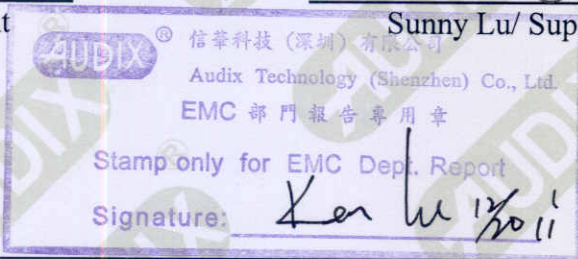
This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Dec.14~06, 2011 Report of date: Dec.08, 2011

Prepared by : Cerry He / Assistant Reviewer by : Sunny Lu / Supervisor



Approved & Authorized Signer : Ken Lu / Manager

## 1. SUMMARY OF STANDARDS AND RESULTS

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15C: 15.207 ANSI C63.10-2009	PASS
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.10-2009	PASS
Band Edge Compliance Test	FCC Part 15: 15.249 ANSI C63.10-2009	PASS
99% Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10-2009	PASS

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

Product Name : Baby monitor

Model Number : PD193480

FCC ID : M6YPD193480

Operation frequency : 903.9MHz~926.9MHz

Antenna : Wire antenna, 0dBi gain

Power Supply : DC 6V

Applicant : Graco Children's Products Inc.  
150 OAKLANDS BOULEVARD EXTON, PA19341

Manufacturer : Honor Tone Limited  
Dong Er Road, Western District of Science and Technology  
Park, Daya Bay Economy and Technology Development  
District, Huizhou City, Guangdong Province PRC.

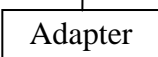
Power Adapter : Manufacturer: GRACO M/N:U060020D12  
Unshielded, Detachable , 1.9m

Date of Test : Dec.04~06, 2011

Date of Receipt : Dec.04, 2011

Sample Type : Prototype production

### 2.2. Block Diagram of Test Setup



AC Mains

**(EUT: Baby monitor)**



**2.3. Test Facility**

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.  
No. 6, Ke Feng Rd., 52 Block, Shenzhen  
Science & Industrial Park, Nantou,  
Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA  
Registration Number: 90454  
Valid Date: Mar.31, 2012

3m & 10m Anechoic Chamber : Certificated by FCC, USA  
Registration Number: 794232  
Valid Date: Dec.30, 2012

EMC Lab. : Certificated by Industry Canada  
Registration Number: IC 5183A-1  
Valid Date: Jun.13, 2014

Certificated by DAkkS, Germany  
Registration No: D-PL-12151-01-01  
Valid Date: Feb.01, 2014

Accredited by NVLAP, USA  
NVLAP Code: 200372-0  
Valid Date: Mar.31, 2012

**2.4. Measurement Uncertainty (95% confidence levels, k=2)**

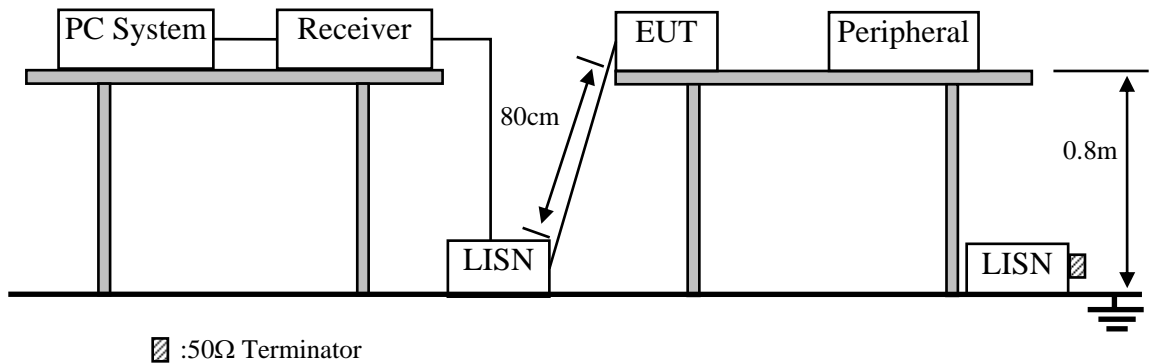
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.2 dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.6 dB(30~200MHz, Polarize: H)
	3.7 dB(30~200MHz, Polarize: V)
	4.0 dB(200M~1GHz, Polarize: H)
	3.7 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	3.1dB (Distance: 3m Polarize: V)
	3.7 dB (Distance: 3m Polarize: H)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 11	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 11	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 11	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 11	1 Year
5.	RF Cable	Fujikura	3D-2W	No.1	May.08, 11	1Year
6.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 11	1 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 11	1 Year

#### 3.2. Block Diagram of Test Setup



#### 3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

#### 3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

##### 3.4.1. Baby monitor (EUT)

Model Number : PD193480

Serial Number : N/A

### 3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3. Let the EUT work in test mode (TX Mode) and measure it.

### 3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2009 on conducted Emission test.

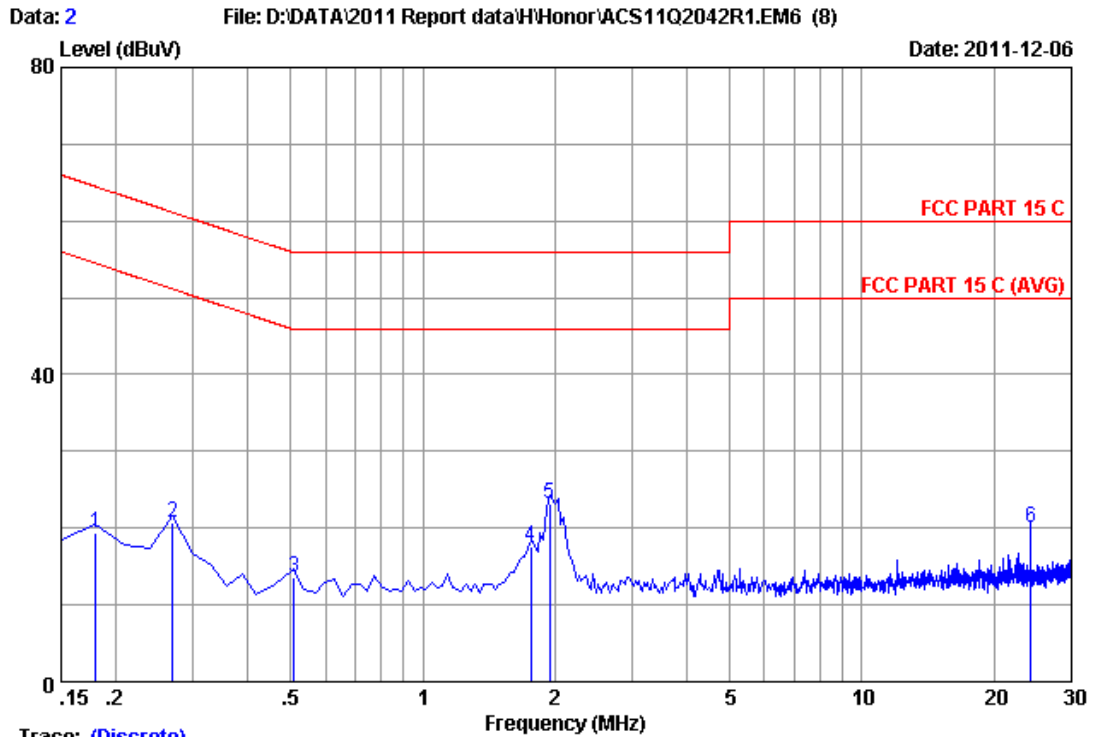
The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

### 3.7. Conducted Disturbance at Mains Terminals Test Results

**PASS.** (All emissions not reported below are too low against the prescribed limits.)



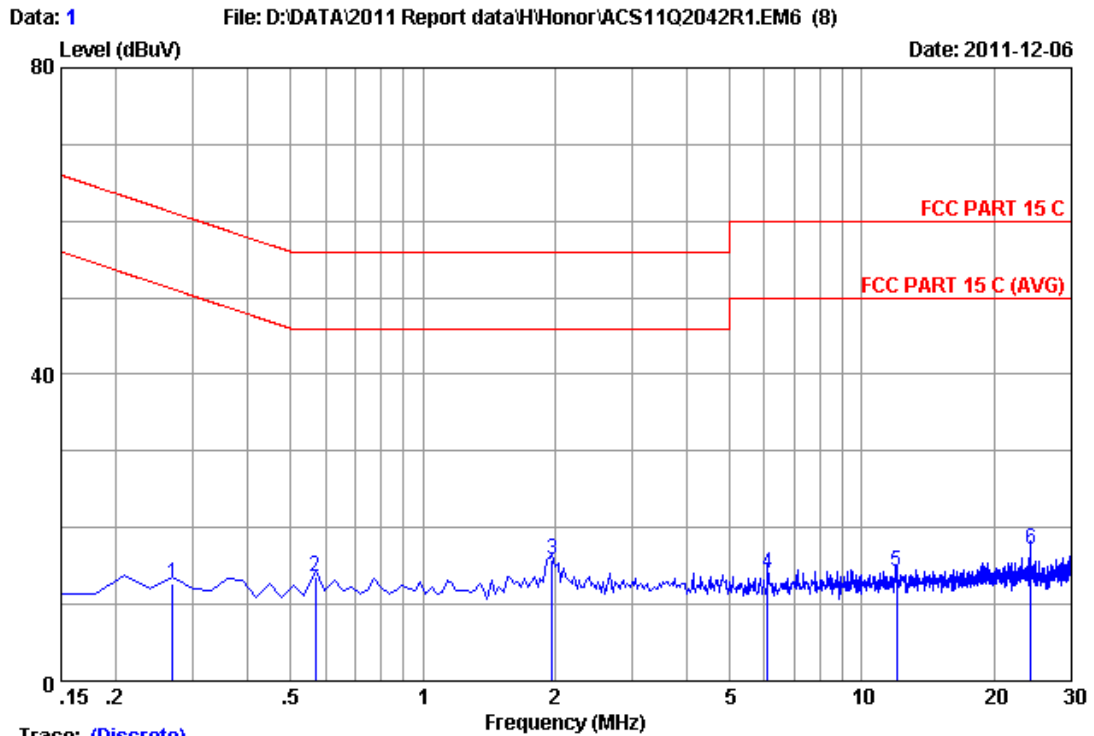


Trace: (Discrete)

Site no :1#conduction Data No :2  
 Dis./Ant. :\*\* 2011 ESH2-Z5 LINE  
 Limit :FCC PART 15 C  
 Env./Ins. :29.5\*C/55% Engineer :Leo\_Li  
 EUT :Baby monitor  
 Power Rating :DC 6V From Adapter Input AC 120V/60Hz  
 Test Mode :Tx Mode  
 M/N:PD193480

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17985	0.17	9.86	9.34	19.37	64.49	45.12	QP
2	0.26940	0.18	9.86	10.64	20.68	61.14	40.46	QP
3	0.50820	0.19	9.87	3.57	13.63	56.00	42.37	QP
4	1.762	0.29	9.91	7.37	17.57	56.00	38.43	QP
5	1.941	0.31	9.92	12.99	23.22	56.00	32.78	QP
6	24.239	1.20	10.17	8.63	20.00	60.00	40.00	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.  
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Trace: (Discrete)

```

Site no      :1#conduction           Data No     :1
Dis./Ant.   :** 2011 ESH2-Z5 NEUTRAL
Limit       :FCC PART 15 C
Env./Ins.   :29.5*C/55%           Engineer    :Leo_Li
EUT         :Baby monitor
Power Rating:DC 6V From Adapter Input AC 120V/60Hz
Test Mode   :Tx Mode
M/N:PD193480
    
```

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.26940	0.21	9.86	2.57	12.64	61.14	48.50	QP
2	0.56790	0.22	9.87	3.50	13.59	56.00	42.41	QP
3	1.971	0.27	9.92	5.58	15.77	56.00	40.23	QP
4	6.090	0.36	10.03	3.72	14.11	60.00	45.89	QP
5	12.000	0.51	10.07	3.66	14.24	60.00	45.76	QP
6	24.269	0.88	10.17	6.22	17.27	60.00	42.73	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.  
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

## 4. RADIATED EMISSION TEST

### 4.1. Test Equipment

Frequency rang: 30~1000MHz

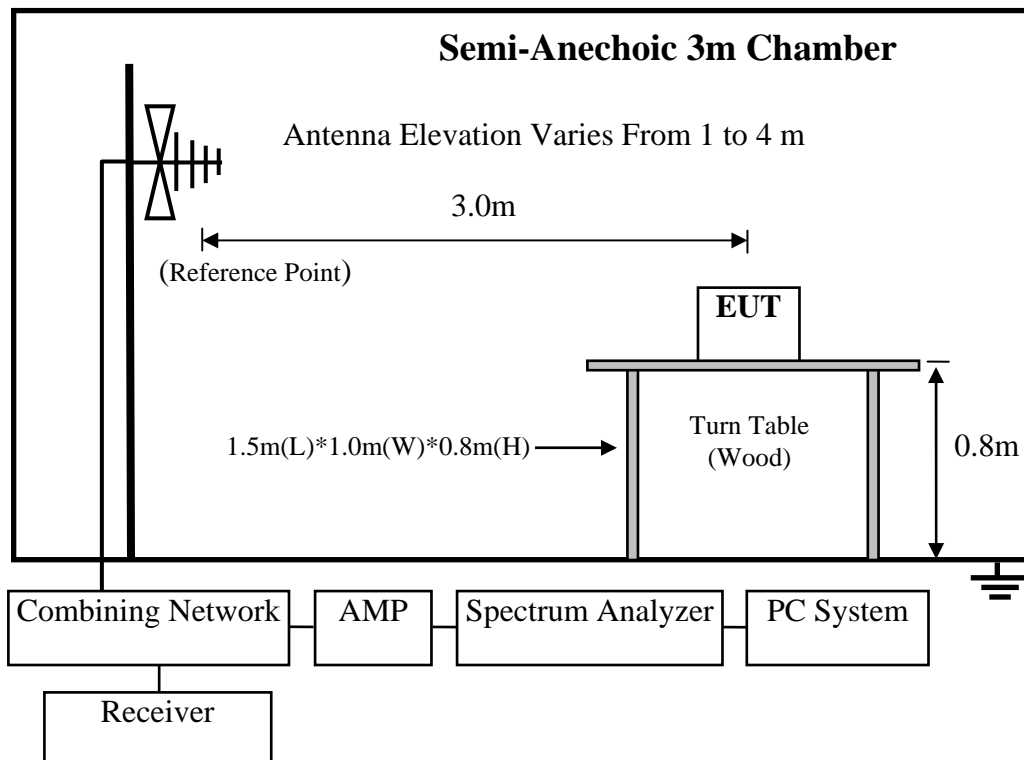
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.05,10	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 11	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 11	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 11	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2597	May.25, 11	1 Year
6	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 11	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 11	1 Year

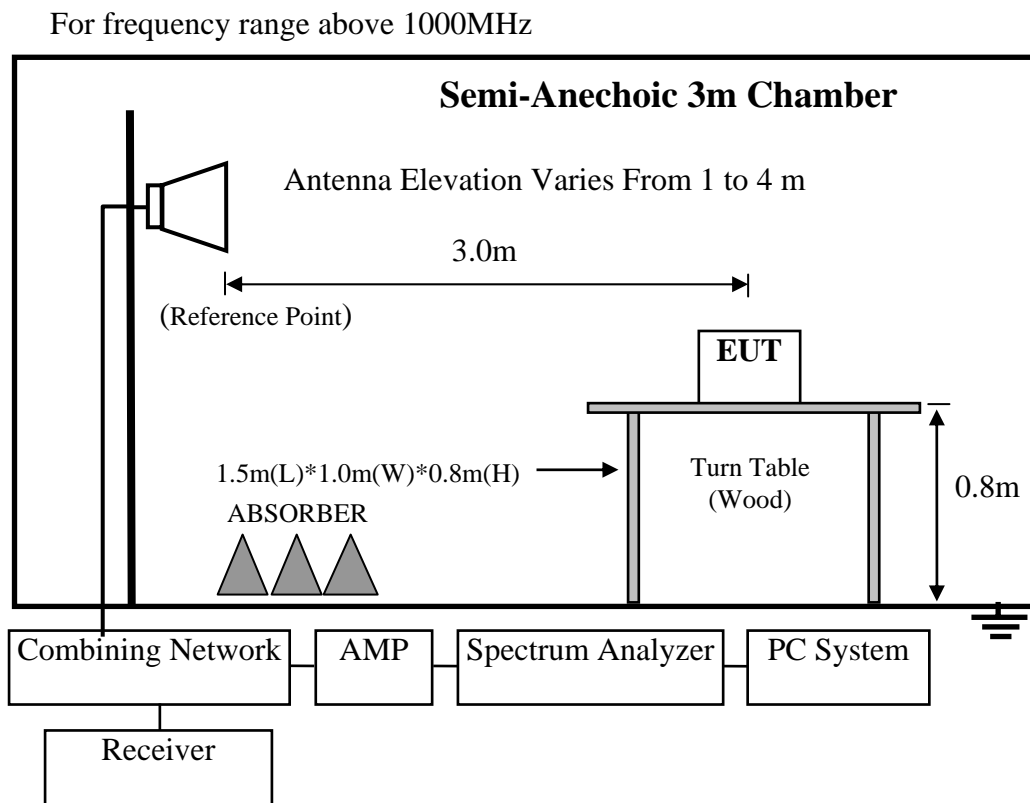
Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 11	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	July.01, 11	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 11	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28622/2	May.08, 11	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	May.08, 11	1 Year

### 4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz





4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	
Field Strength of fundamental emissions for 2.4GHz-2.4835GHz	3	114.0 dB(μV)/m (Peak) 94.0 dB(μV)/m (Average)	

- Remark :
- (1) Emission level dBμV = 20 log Emission level μV/m
  - (2) The smaller limit shall apply at the cross point between two frequency bands.
  - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
  - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

#### 4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turned on the power of all equipment.

4.5.3. Let EUT work in Tx mode.

#### 4.6. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (10GHz) are checked.

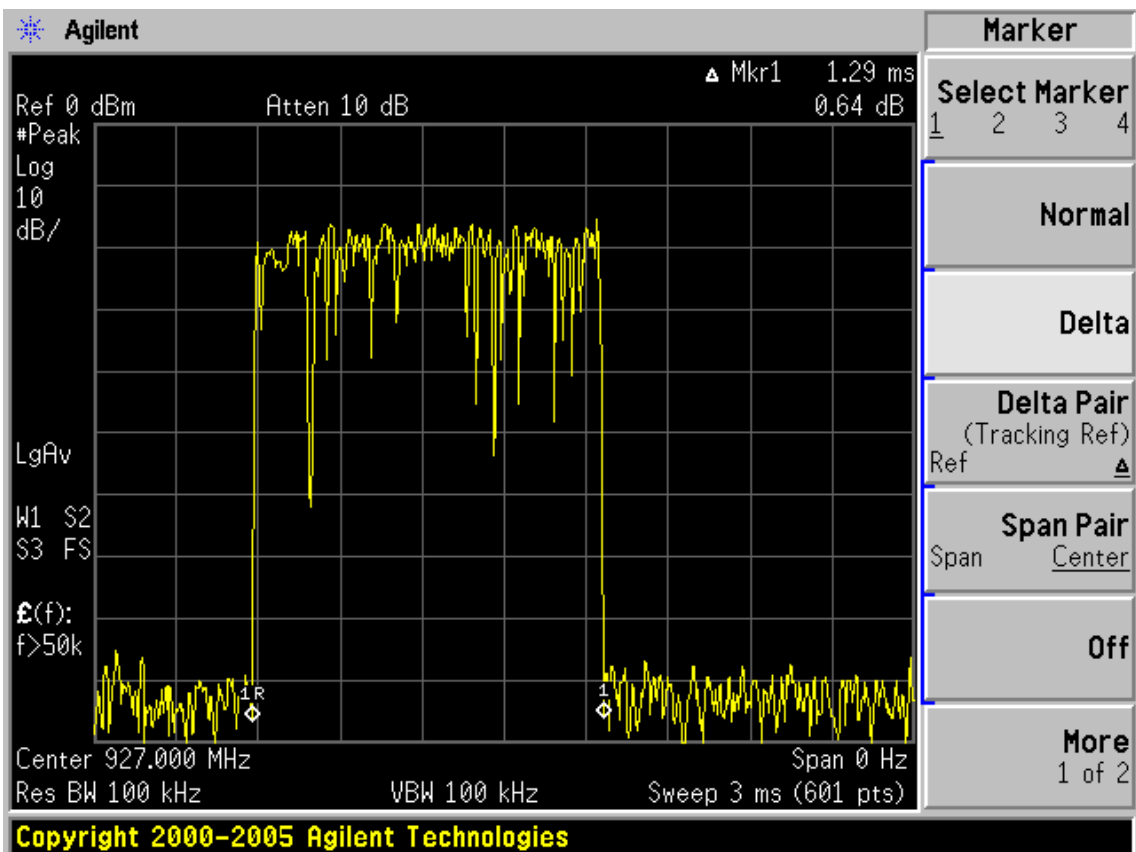
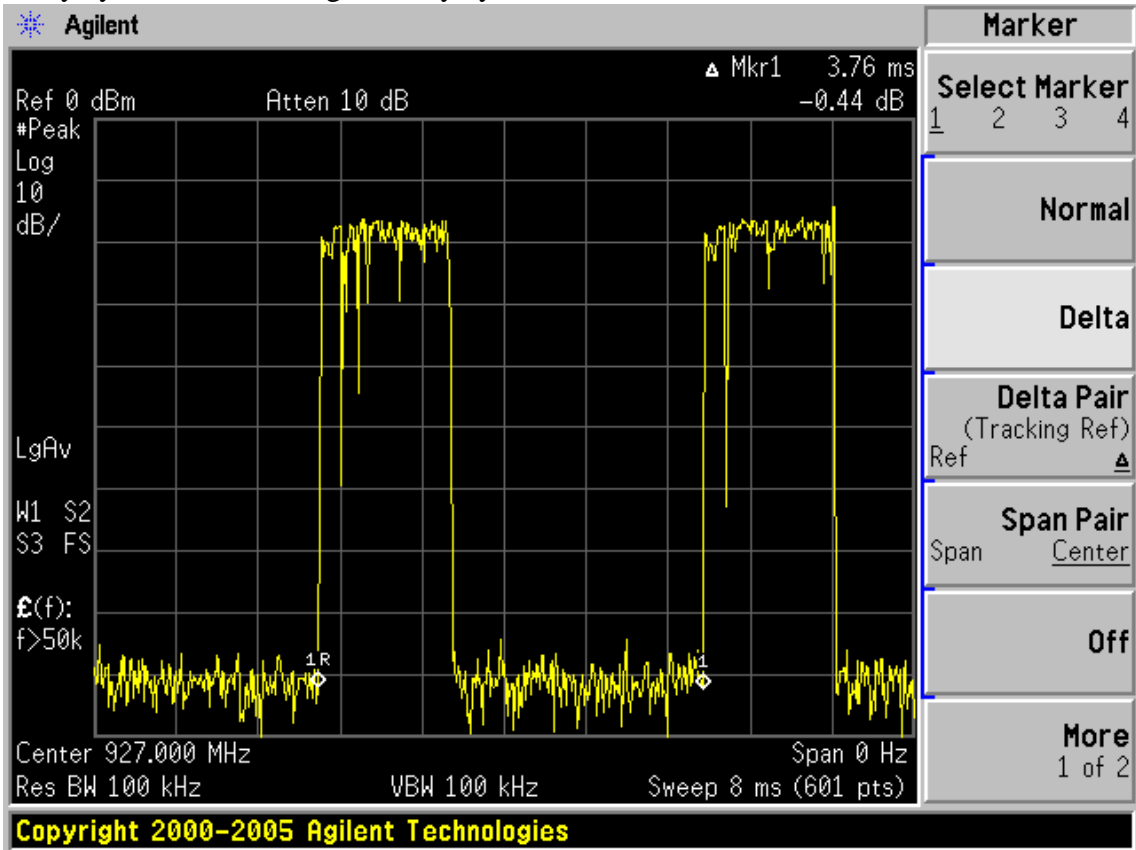
#### 4.7. Radiated Emission Test Results

**PASS.**

All the emissions from 30MHz to 10GHz were comply with the 15.209 Limit.

Note: The duty cycle factor for calculate average level is 9.29dB, and average limit is 20dB below peak limit, so if peak measured level comply with peak limit, the average level was deemed to comply with average limit.

Duty cycle:  $1.29\text{ms} / 3.76\text{ms} * 100\% = 34.31\%$   
 Duty cycle factor =  $20\log (1/\text{duty cycle}) = 9.29$



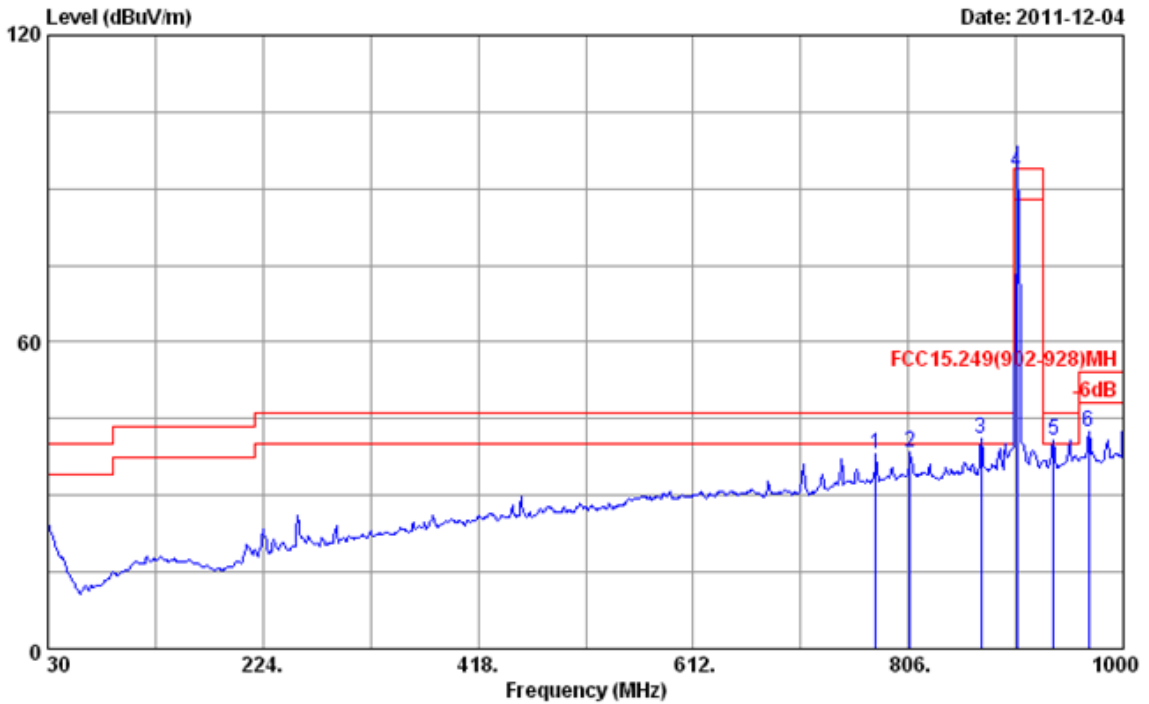


**Frequency: 30MHz~1GHz**

Data: 8

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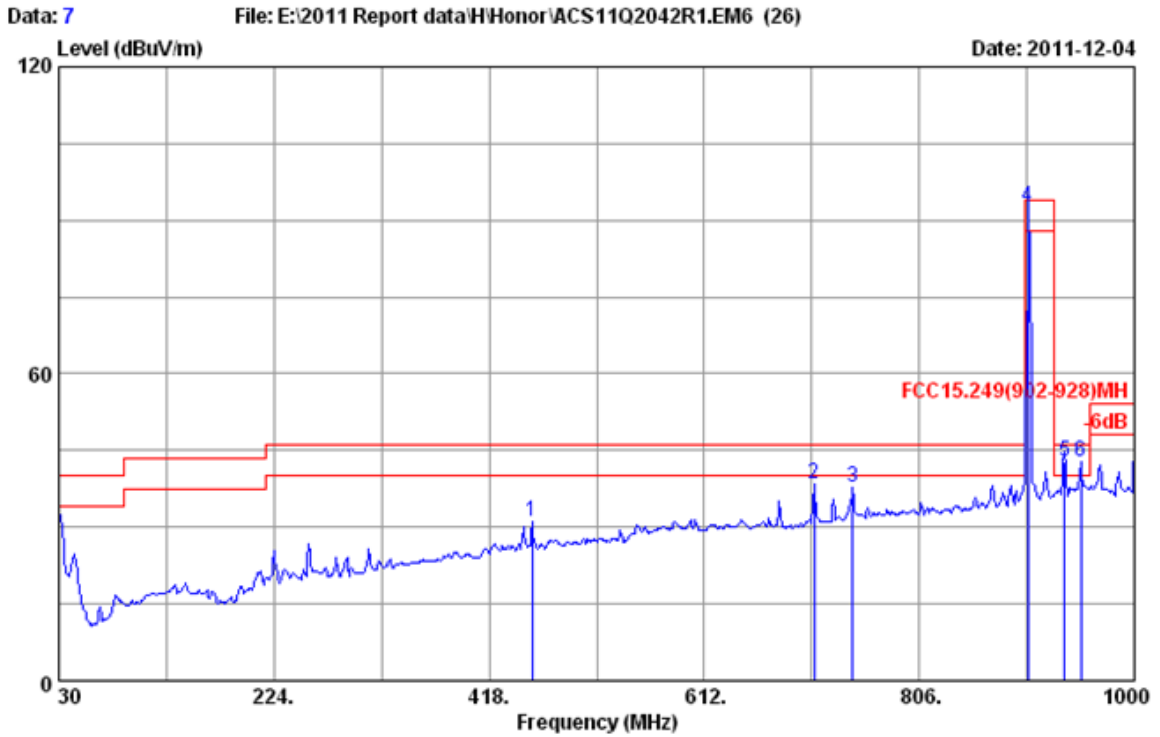
Date: 2011-12-04



Site no. : 3m Chamber Data no. : 8  
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC15.249(902-928)MH  
 Env. / Ins. : 24°C/56% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 6V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 903.9MHz  
 PD193480

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	776.900	22.10	1.93	41.03	38.06	46.00	7.94	QP
2	807.940	22.00	1.94	41.57	38.56	46.00	7.44	QP
3	871.960	22.80	2.26	43.43	41.26	46.00	4.74	QP
4	903.900	22.92	2.20	95.58	93.37	94.00	0.63	QP
5	936.950	23.83	2.12	41.92	40.68	46.00	5.32	QP
6	968.960	24.22	2.26	43.10	42.53	54.00	11.47	QP

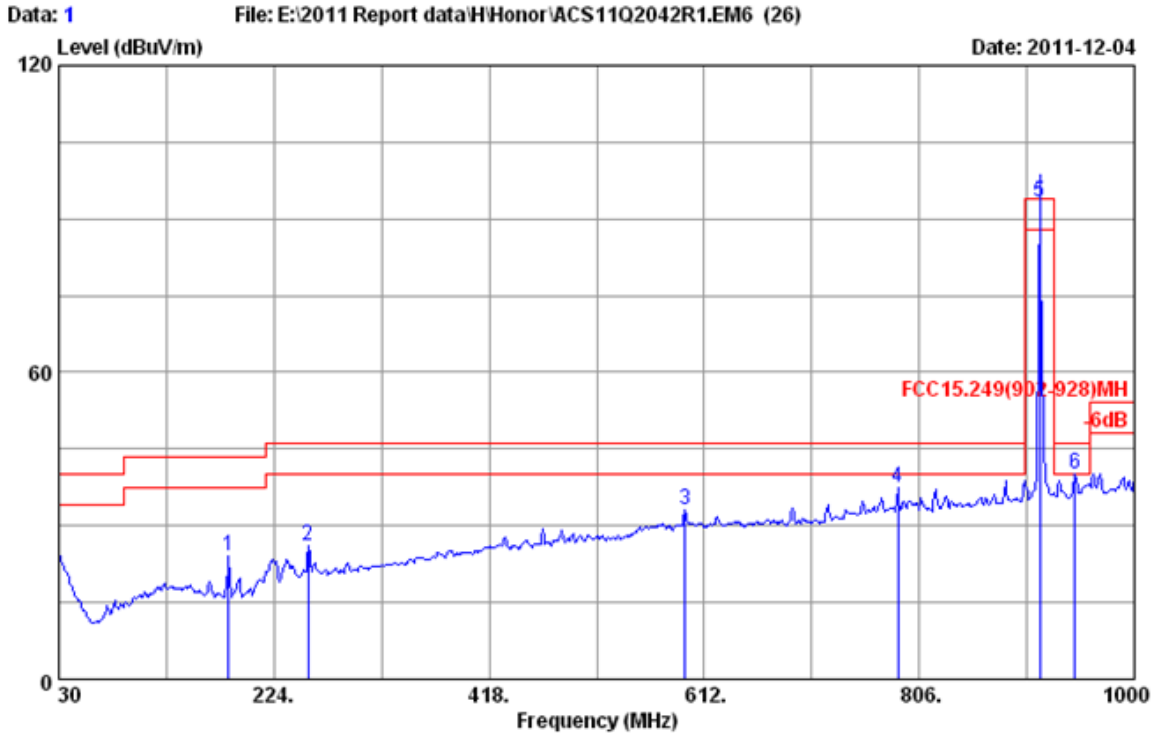
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 7  
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL  
 Limit : FCC15.249(902-928)MH  
 Env. / Ins. : 24°C/56% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 6V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 903.9MHz  
 PD193480

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	456.800	17.07	1.50	12.61	31.18	46.00	14.82	QP
2	710.940	20.71	1.84	15.75	38.30	46.00	7.70	QP
3	745.860	21.92	1.96	13.92	37.80	46.00	8.20	QP
4	903.900	22.92	2.20	67.58	92.70	94.00	1.30	QP
5	936.950	23.83	2.12	16.81	42.76	46.00	3.24	QP
6	951.500	24.15	2.21	16.27	42.63	46.00	3.37	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

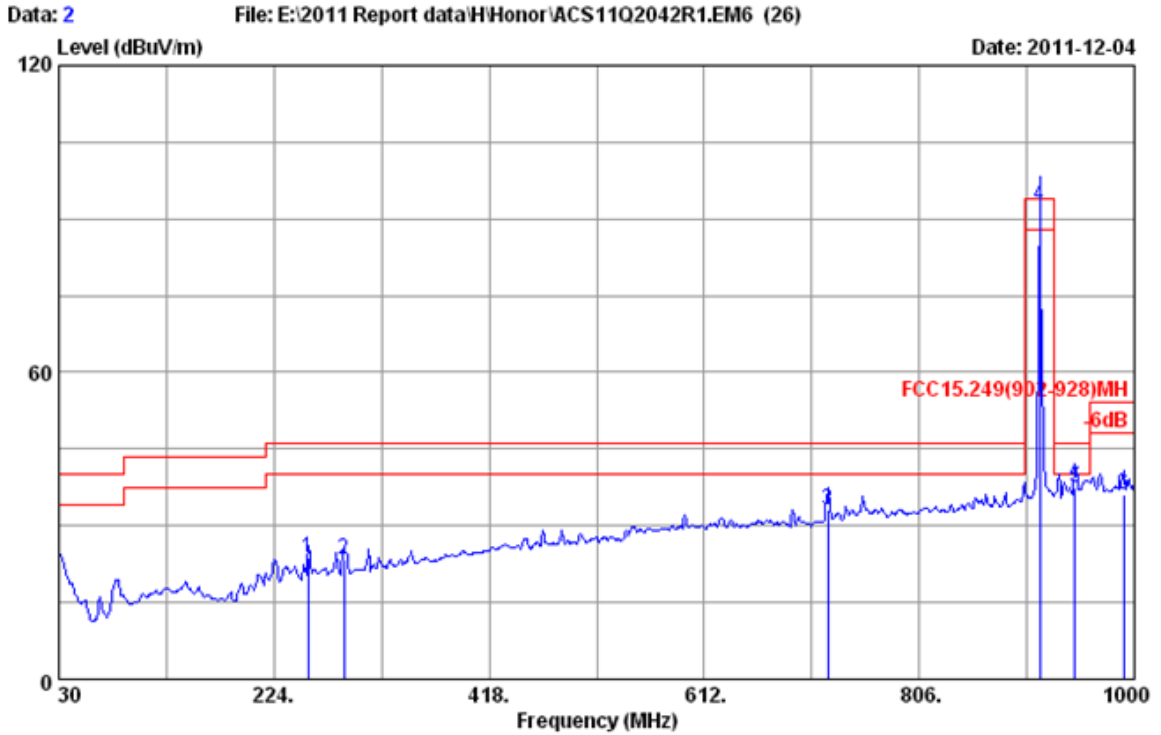


Site no. : 3m Chamber  
 Dis. / Ant. : 3m CBL6111C SN 2768  
 Limit : FCC15.249(902-928)MH  
 Env. / Ins. : 24°C/56%  
 EUT : Baby monitor  
 Power rating : DC 6V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 914.9MHz  
 PD193480

Data no. : 1  
 Ant. pol. : HORIZONTAL  
 Engineer : Leo\_Li

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	183.260	8.83	0.99	14.21	24.03	43.50	19.47	QP
2	255.040	13.12	1.18	11.71	26.01	46.00	19.99	QP
3	594.540	20.14	1.53	11.37	33.04	46.00	12.96	QP
4	786.600	22.56	1.90	13.05	37.51	46.00	8.49	QP
5	914.900	23.67	2.20	67.52	93.39	94.00	0.61	QP
6	946.650	24.65	2.17	13.42	40.24	46.00	5.76	QP

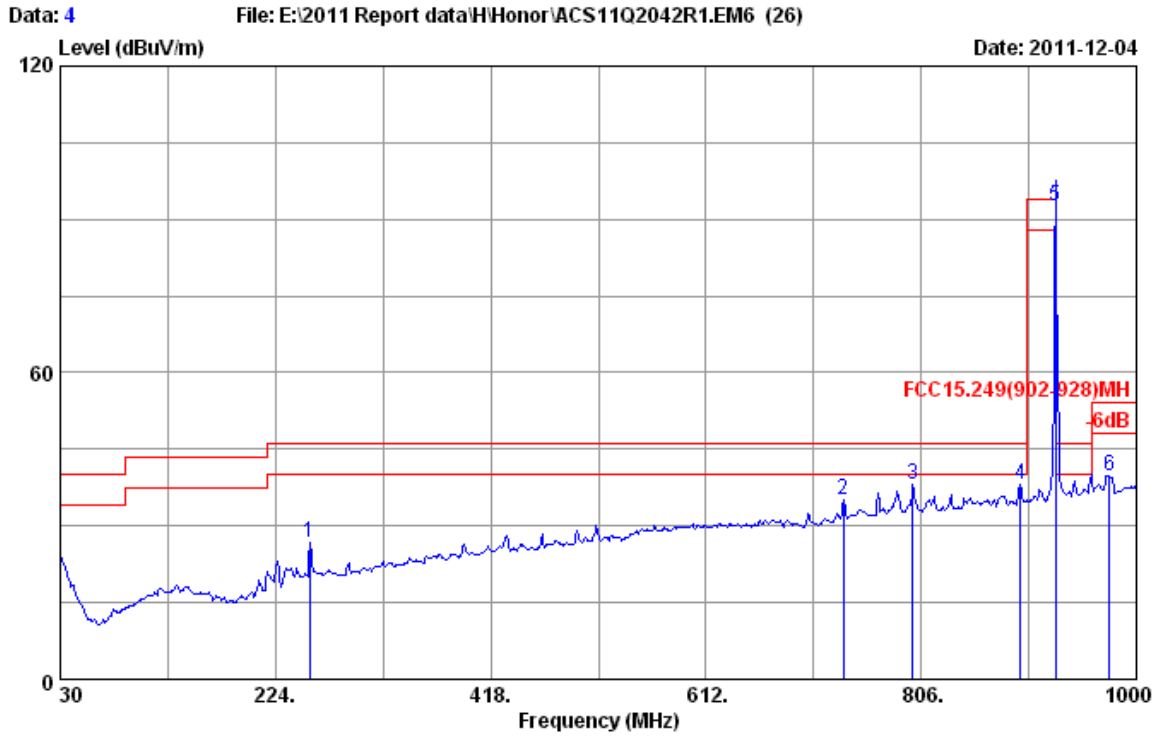
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2  
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL  
 Limit : FCC15.249(902-928)MH  
 Env. / Ins. : 24°C/56% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 6V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 914.9MHz  
 PD193480

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	255.040	13.30	1.18	9.18	23.66	46.00	22.34	QP
2	287.050	13.48	1.17	8.76	23.41	46.00	22.59	QP
3	723.550	20.98	1.82	10.32	33.12	46.00	12.88	QP
4	914.900	23.28	2.20	66.95	92.43	94.00	1.57	QP
5	946.650	24.01	2.17	11.16	37.34	46.00	8.66	QP
6	990.300	24.00	2.25	9.75	36.00	54.00	18.00	QP

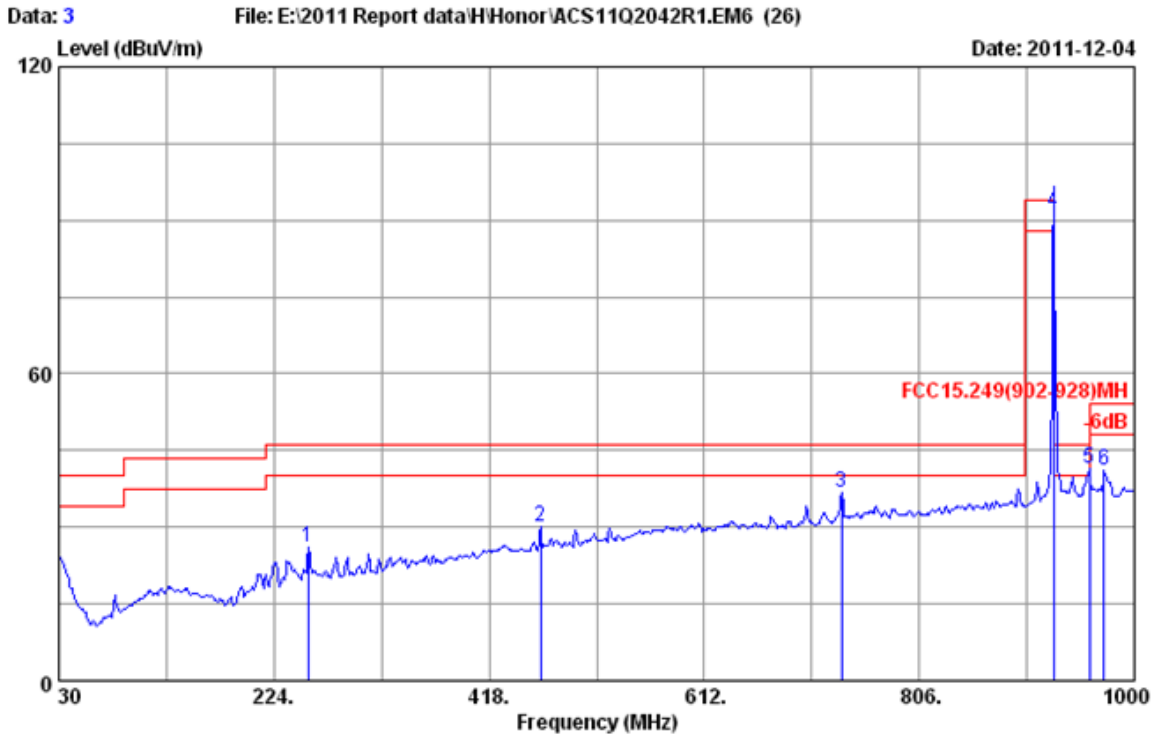
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4  
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC15.249(902-928)MH  
 Env. / Ins. : 24°C/56% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 6V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 926.9MHz  
 PD193480

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	255.040	13.30	1.18	12.22	26.70	46.00	19.30	QP
2	736.160	21.60	1.88	11.55	35.03	46.00	10.97	QP
3	798.240	22.02	1.90	14.10	38.02	46.00	7.98	QP
4	895.240	22.85	2.22	13.18	38.25	46.00	7.75	QP
5	926.900	23.78	2.16	66.74	92.68	94.00	1.32	QP
6	975.750	24.02	2.22	13.59	39.83	54.00	14.17	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



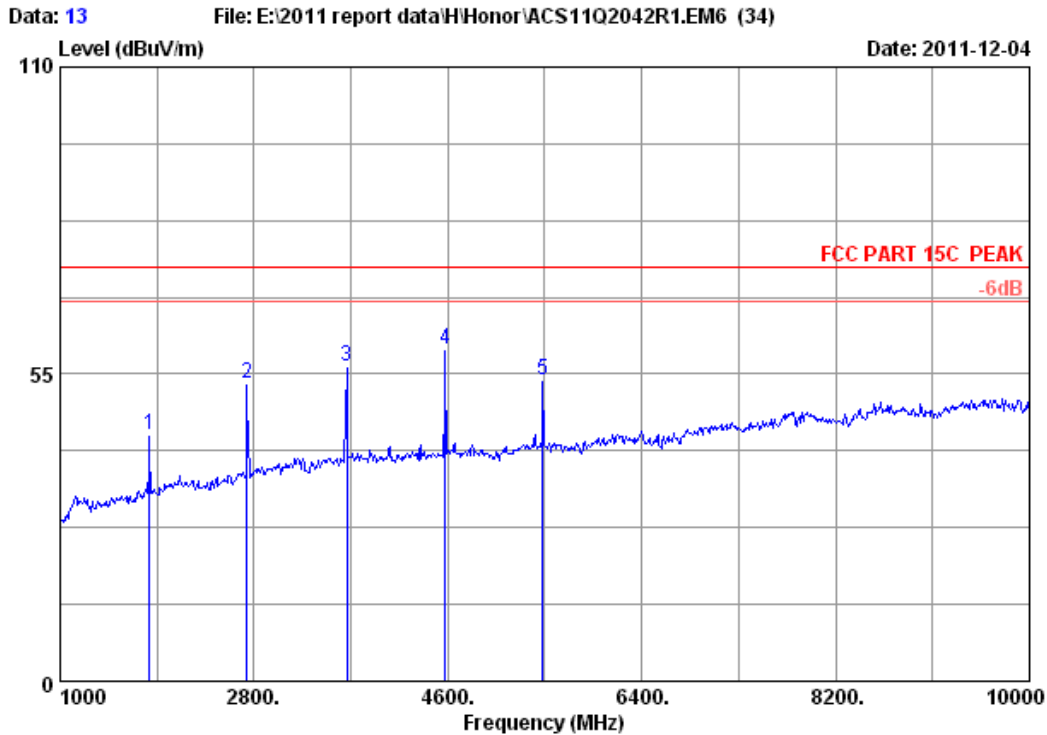
Site no. : 3m Chamber Data no. : 3  
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL  
 Limit : FCC15.249(902-928)MH  
 Env. / Ins. : 24°C/56% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 6V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 926.9MHz  
 PD193480

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	255.040	13.30	1.18	38.50	26.05	46.00	19.95	QP
2	464.560	17.33	1.50	38.49	30.23	46.00	15.77	QP
3	736.160	21.60	1.88	40.39	36.73	46.00	9.27	QP
4	926.900	23.78	2.16	92.84	91.55	94.00	2.45	QP
5	959.260	24.37	2.29	41.74	41.30	46.00	4.70	QP
6	972.840	24.11	2.24	41.72	41.03	54.00	12.97	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



**Frequency: 1GHz~10GHz**



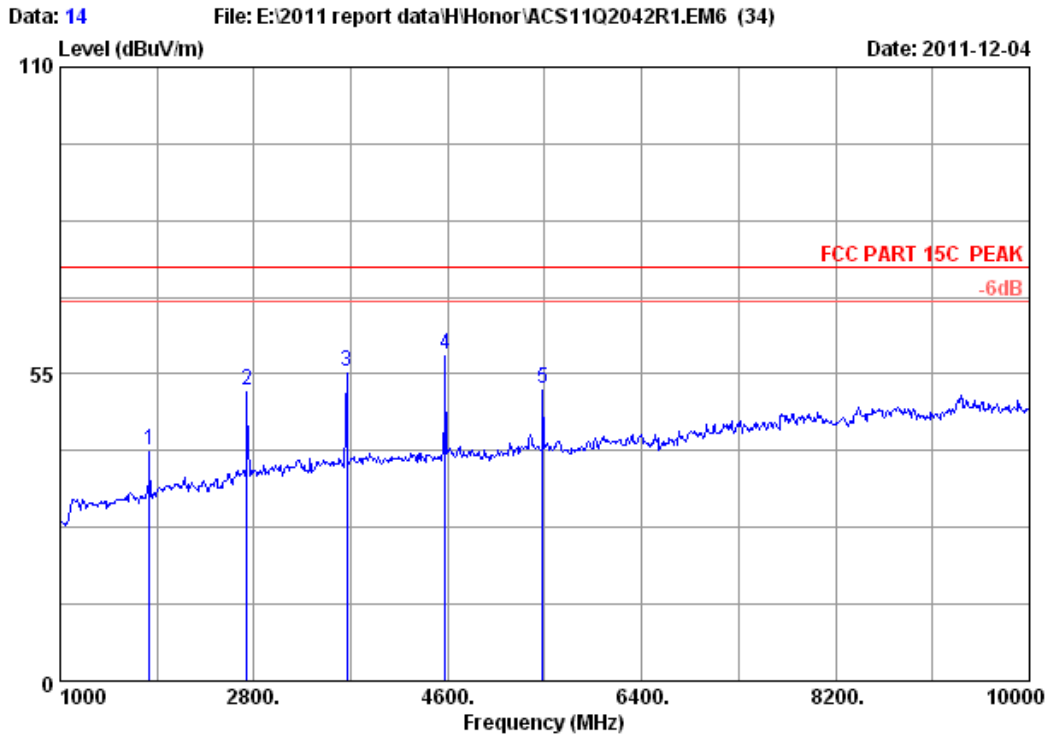
Site no. : 3m Chamber Data no. : 13  
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 6V From Adapter Input AC 120V/60Hz  
 Test mode : 914.9MHz Tx  
 M/N : PD193480

	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1828.000	26.70	5.13	34.49	46.92	44.26	74.00	29.74	Peak
2	2737.000	28.99	6.54	34.47	52.25	53.31	74.00	20.69	Peak
3	3659.000	31.47	7.53	34.56	52.03	56.47	74.00	17.53	Peak
4	4574.000	32.42	8.31	34.60	53.23	59.36	74.00	14.64	Peak
5	5482.000	33.88	9.10	34.60	45.46	53.84	74.00	20.16	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
3659.000	56.47	9.29	47.18	54	Pass
4574.000	59.36	9.29	50.07	54	Pass



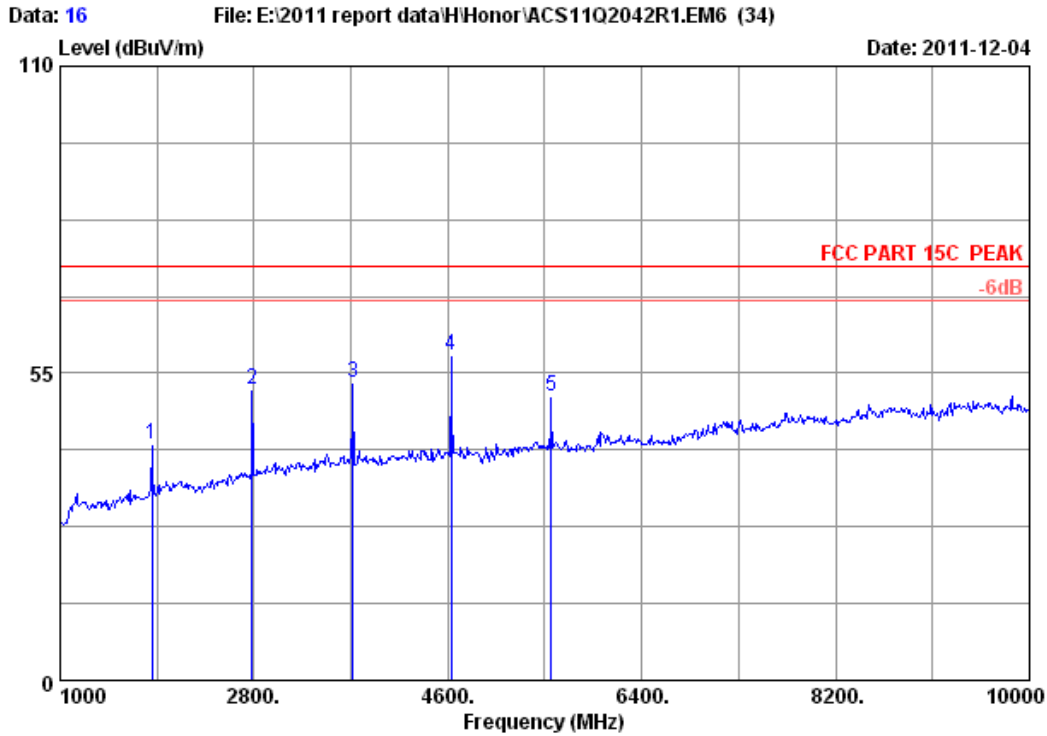
Site no. : 3m Chamber Data no. : 14  
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 6V From Adapter Input AC 120V/60Hz  
 Test mode : 914.9MHz Tx  
 M/N : PD193480

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1828.000	26.70	5.13	34.49	44.03	41.37	74.00	32.63	Peak
2	2737.000	28.99	6.54	34.47	50.97	52.03	74.00	21.97	Peak
3	3659.000	31.47	7.53	34.56	50.98	55.42	74.00	18.58	Peak
4	4574.000	32.42	8.31	34.60	52.45	58.58	74.00	15.42	Peak
5	5482.000	33.88	9.10	34.60	44.04	52.42	74.00	21.58	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
3659.000	55.42	9.29	46.13	54	Pass
4574.000	58.58	9.29	49.29	54	Pass

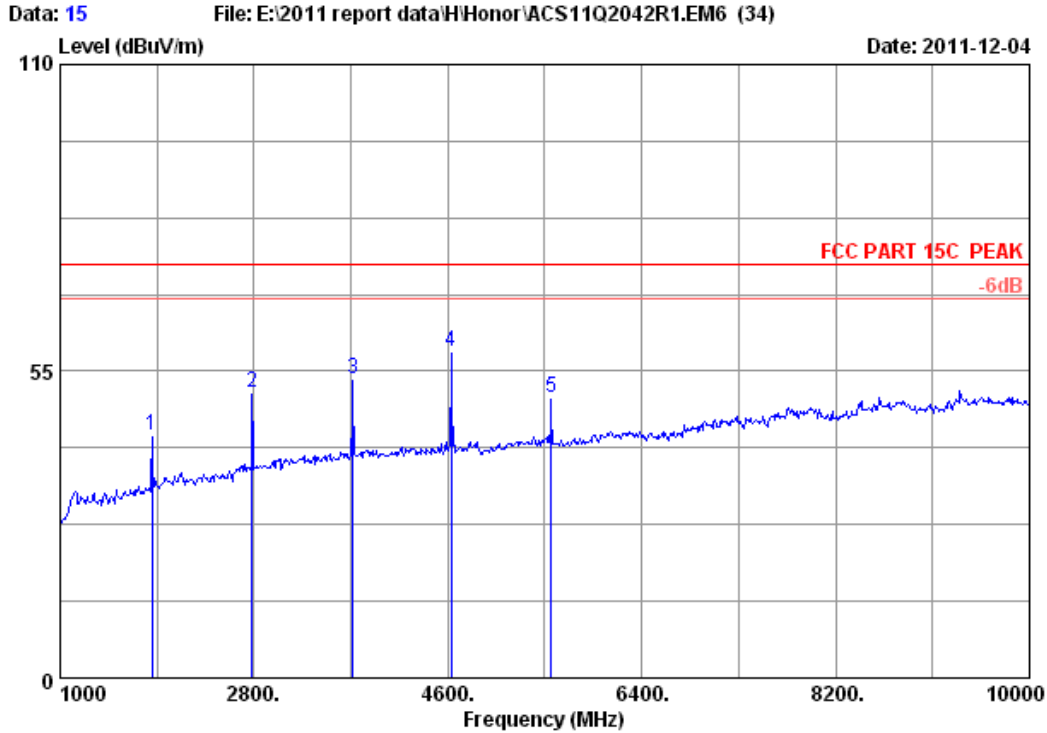


Site no. : 3m Chamber Data no. : 16  
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 6V From Adapter Input AC 120V/60Hz  
 Test mode : 926.9MHz Tx  
 M/N : PD193480

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1855.000	26.77	5.15	34.48	44.85	42.29	74.00	31.71	Peak
2	2782.000	29.18	6.63	34.48	50.89	52.22	74.00	21.78	Peak
3	3718.000	31.64	7.59	34.57	48.60	53.26	74.00	20.74	Peak
4	4634.000	32.55	8.38	34.60	52.02	58.35	74.00	15.65	Peak
5	5563.000	33.93	9.16	34.60	42.34	50.83	74.00	23.17	Peak

- Remarks:  
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
4634.000	58.35	9.29	49.06	54	Pass



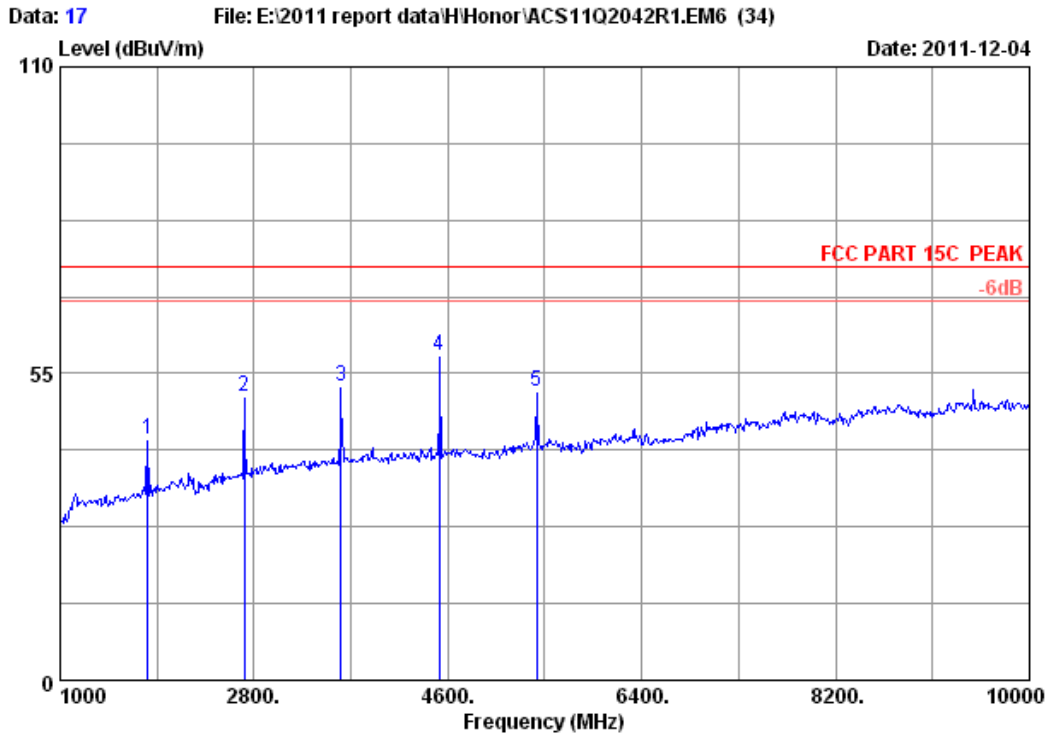
Site no. : 3m Chamber Data no. : 15  
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 6V From Adapter Input AC 120V/60Hz  
 Test mode : 926.9MHz Tx  
 M/N : PD193480

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1855.000	26.77	5.15	34.48	45.92	43.36	74.00	30.64	Peak
2	2782.000	29.18	6.63	34.48	49.76	51.09	74.00	22.91	Peak
3	3718.000	31.64	7.59	34.57	49.02	53.68	74.00	20.32	Peak
4	4634.000	32.55	8.38	34.60	52.29	58.62	74.00	15.38	Peak
5	5563.000	33.93	9.16	34.60	41.64	50.13	74.00	23.87	Peak

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBUV/m)	Duty cycle factor	AV level (dBUV/m)	Limit(dBUV/m)	Conclusion
4634.000	58.62	9.29	49.33	54	Pass



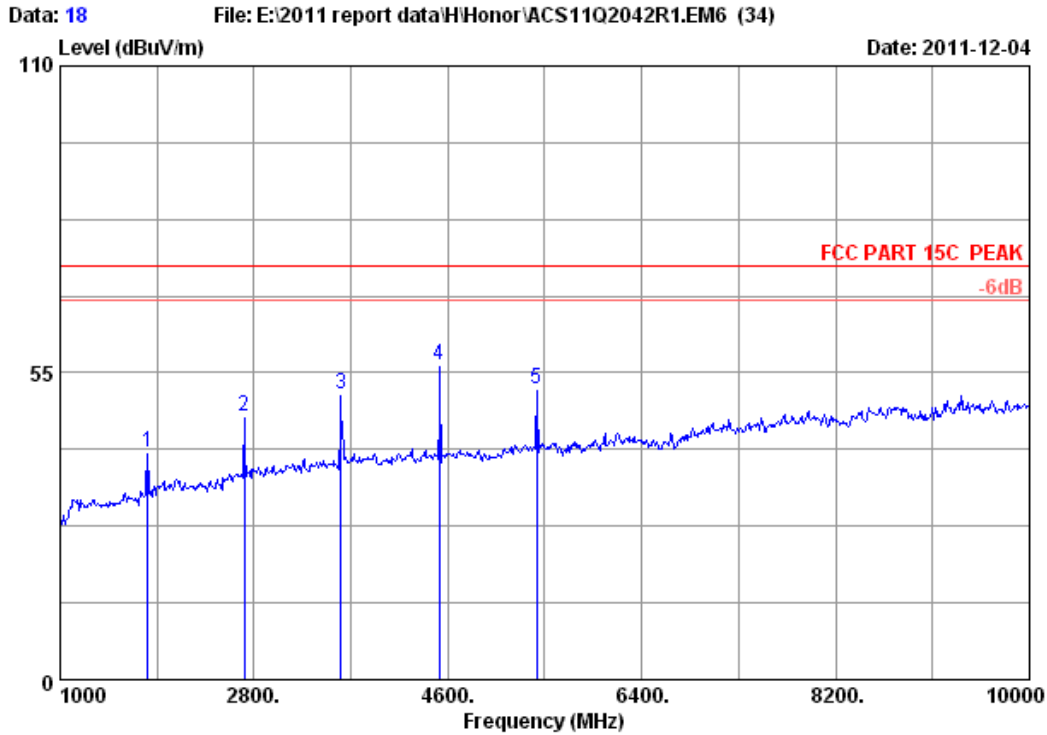
Site no. : 3m Chamber Data no. : 17  
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 6V From Adapter Input AC 120V/60Hz  
 Test mode : 903.9MHz Tx  
 M/N : PD193480

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1810.000	26.63	5.10	34.50	45.92	43.15	74.00	30.85	Peak
2	2710.000	28.92	6.52	34.47	49.81	50.78	74.00	23.22	Peak
3	3610.000	31.39	7.50	34.56	48.43	52.76	74.00	21.24	Peak
4	4519.000	32.33	8.27	34.60	52.16	58.16	74.00	15.84	Peak
5	5428.000	33.78	9.06	34.60	43.39	51.63	74.00	22.37	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
4519.000	58.16	9.29	48.87	54	Pass



Site no. : 3m Chamber Data no. : 18  
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 6V From Adapter Input AC 120V/60Hz  
 Test mode : 903.9MHz Tx  
 M/N : PD193480

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1810.000	26.63	5.10	34.50	43.65	40.88	74.00	33.12	Peak
2	2710.000	28.92	6.52	34.47	46.30	47.27	74.00	26.73	Peak
3	3610.000	31.39	7.50	34.56	46.84	51.17	74.00	22.83	Peak
4	4519.000	32.33	8.27	34.60	50.53	56.53	74.00	17.47	Peak
5	5428.000	33.78	9.06	34.60	43.90	52.14	74.00	21.86	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
4519.000	56.53	9.29	47.24	54	Pass



## 5. 99% BANDWIDTH TEST

### 5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,11	1 Year

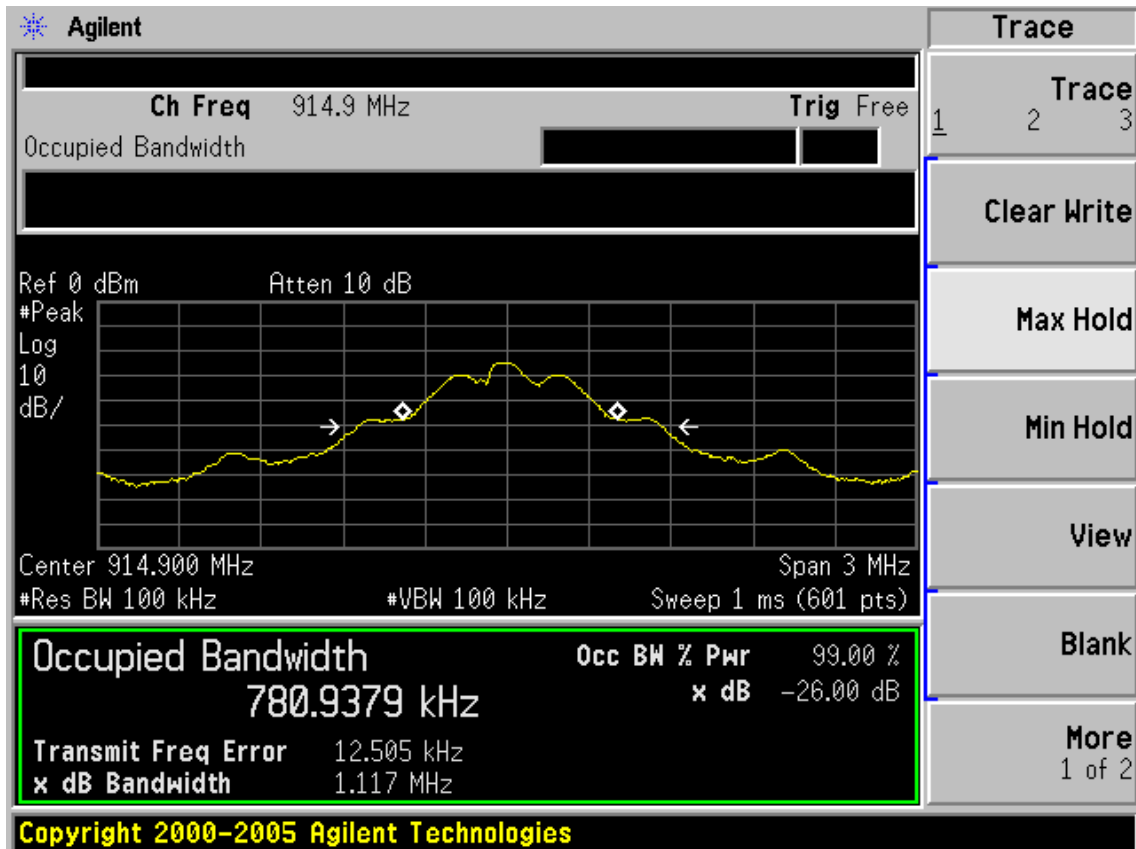
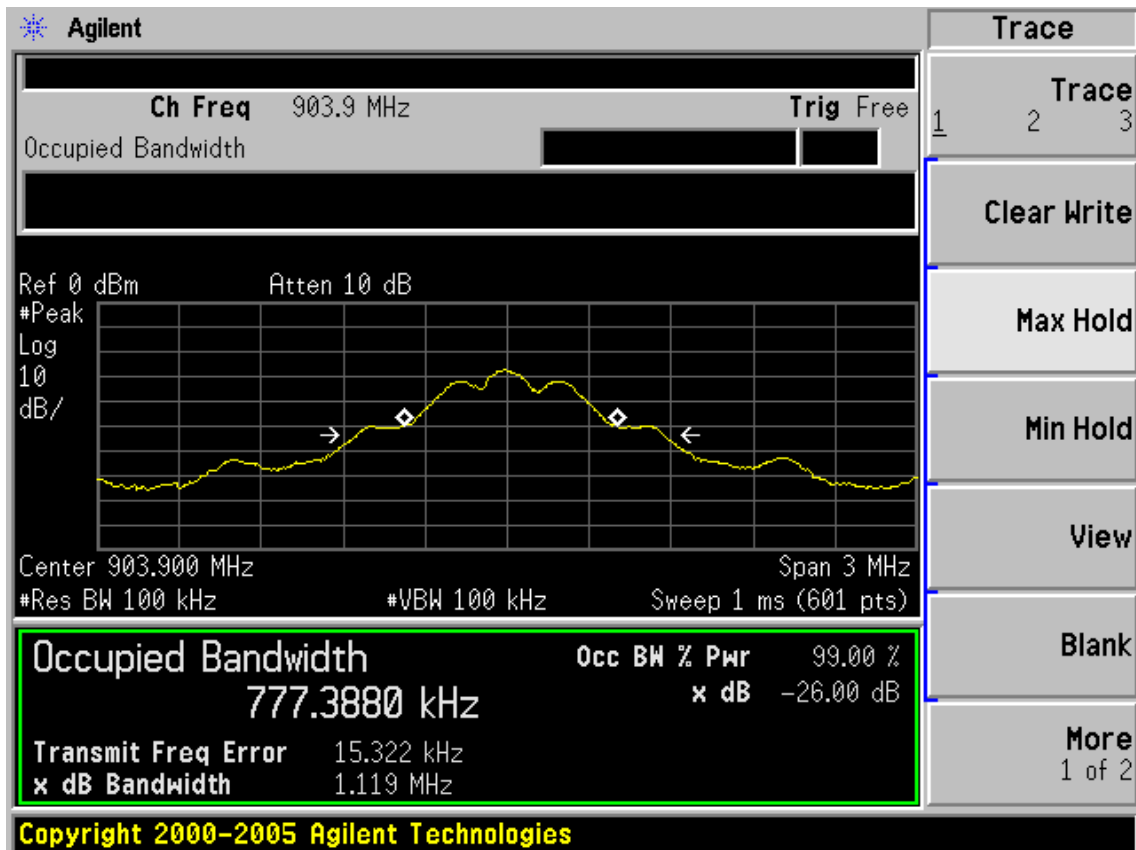
### 5.2. Limit

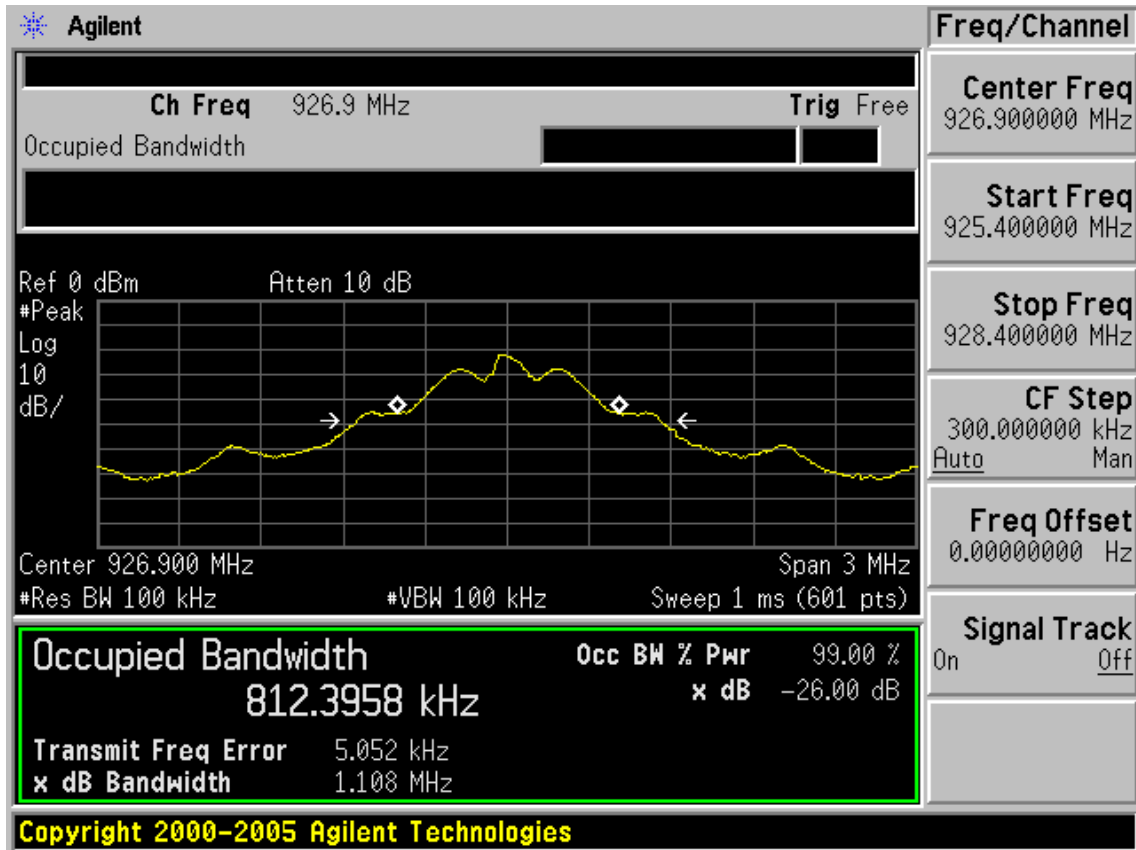
The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth.

### 5.3. Test Results

EUT: Baby monitor		
M/N: PD193480		
Test date:2011-12-05	Pressure: 101.2 kpa	Humidity: 51.9 %
Tested by: Leo-Li	Test site: RF site	Temperature : 24.7 °C

Frequency	99% bandwidth (KHz)	Limit (KHz)
903.9 MHz	777.3880	N/A
914.9MHz	780.9379	N/A
926.9MHz	812.3958	N/A
Conclusion : PASS		





## 6. BAND EDGE COMPLIANCE TEST

### 6.1. Test Equipment

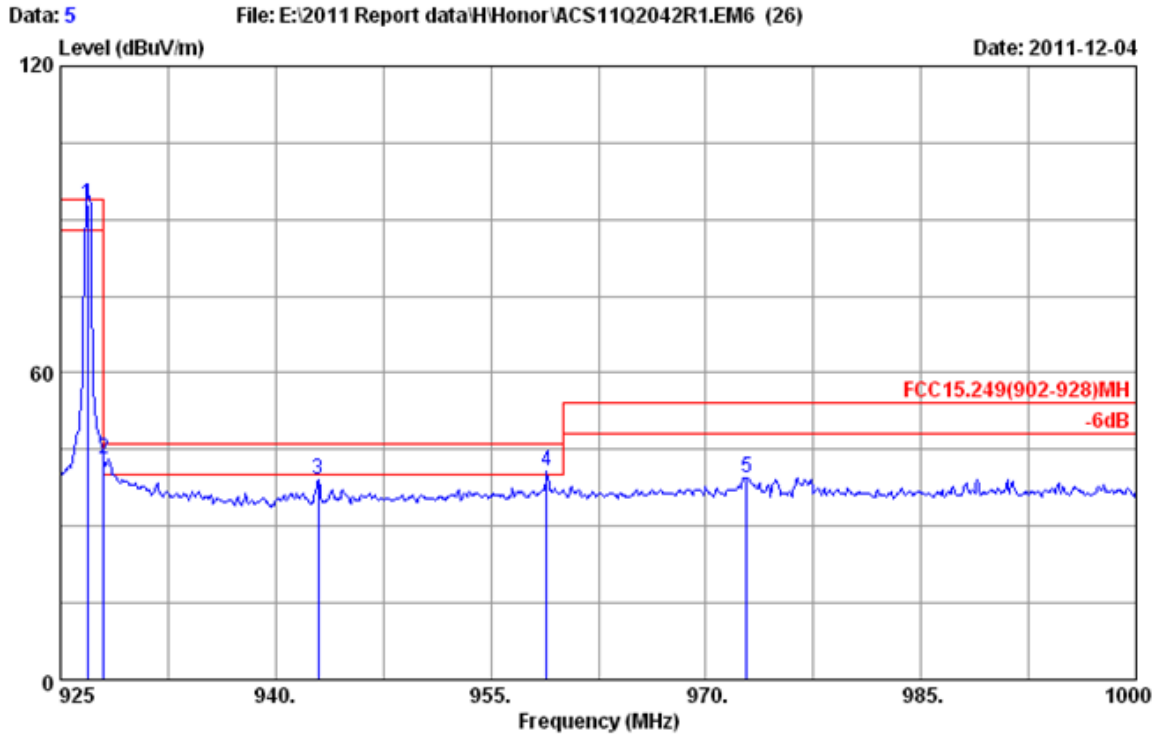
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,11	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 10	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 11	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,11	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,11	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,11	1 Year

### 6.2. Limit

All the lower and upper band-edges emissions should comply with the radiated emission limit 15.209.

### 6.3. Test Produce

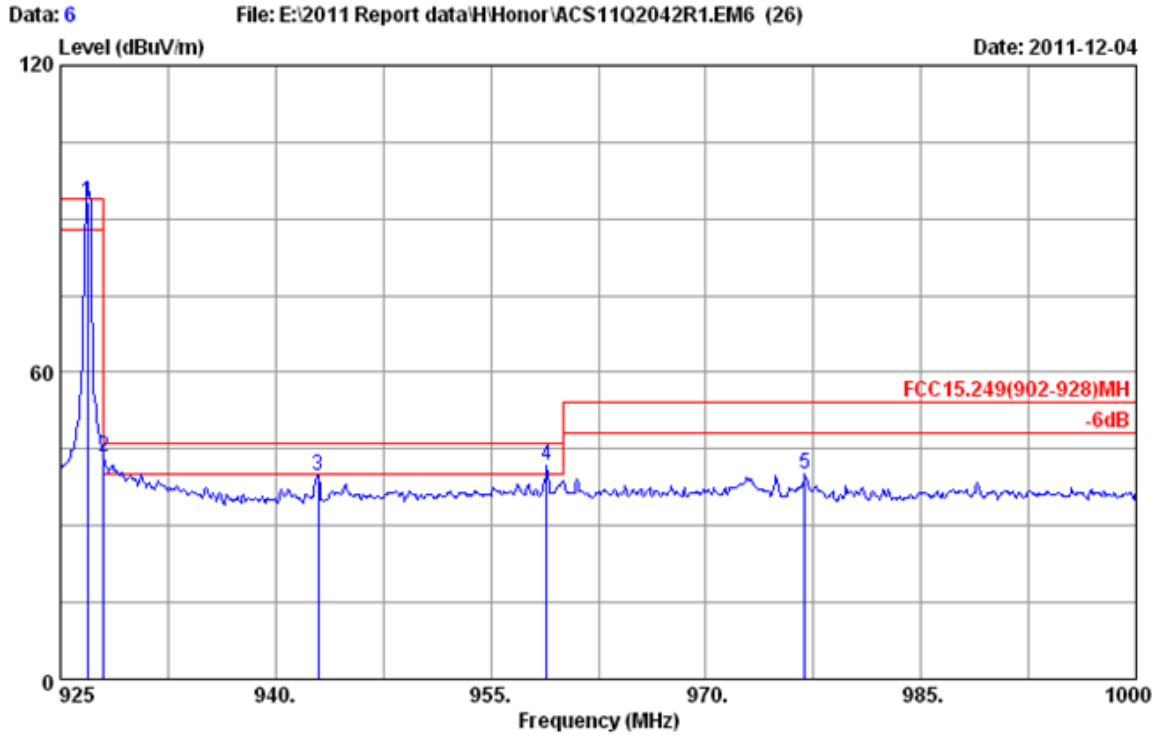
1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
  - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
  - (b)This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level



Site no. : 3m Chamber Data no. : 5  
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC15.249(902-928)MH  
 Env. / Ins. : 24°C/56% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 6V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 926.9MHz  
 PD193480

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	926.875	23.78	2.16	66.95	92.89	94.00	1.11	QP
2	928.000	23.82	2.16	17.00	42.98	46.00	3.02	QP
3	943.000	23.89	2.13	13.15	39.17	46.00	6.83	QP
4	958.900	24.37	2.29	14.14	40.80	46.00	5.20	QP
5	972.850	24.11	2.24	13.12	39.47	54.00	14.53	QP

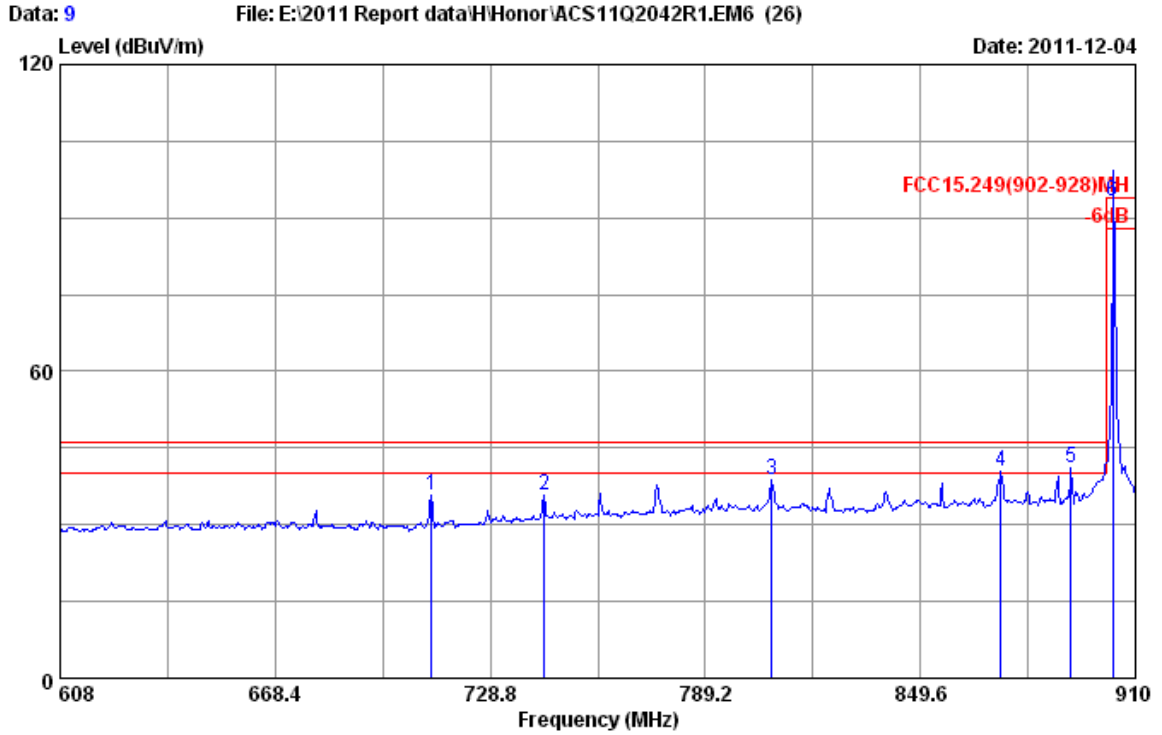
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6  
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL  
 Limit : FCC15.249(902-928)MH  
 Env. / Ins. : 24°C/56% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 6V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 926.9MHz  
 PD193480

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	926.875	23.78	2.16	67.46	93.40	94.00	0.60	QP
2	928.000	23.82	2.16	17.37	43.35	46.00	2.65	QP
3	943.000	23.89	2.13	13.80	39.82	46.00	6.18	QP
4	958.900	24.37	2.29	15.16	41.82	46.00	4.18	QP
5	976.900	23.99	2.22	13.87	40.08	54.00	13.92	QP

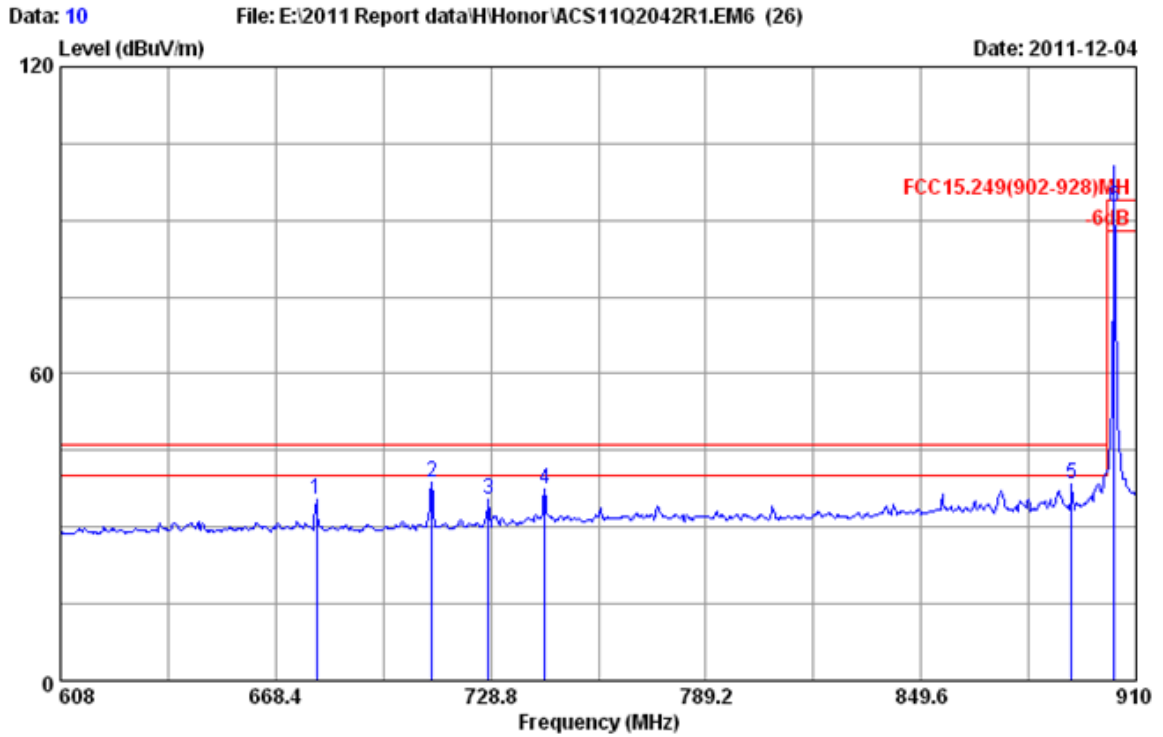
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 9  
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC15.249(902-928)MH  
 Env. / Ins. : 24°C/56% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 6V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 903.9MHz  
 PD193480

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	712.190	20.72	1.84	13.14	35.70	46.00	10.30	QP
2	743.900	21.88	1.94	12.09	35.91	46.00	10.09	QP
3	807.924	22.00	1.94	14.97	38.91	46.00	7.09	QP
4	872.250	22.80	2.26	15.49	40.55	46.00	5.45	QP
5	891.880	22.88	2.24	15.95	41.07	46.00	4.93	QP
6	903.700	22.92	2.20	67.98	93.10	94.00	0.90	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 10  
 Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL  
 Limit : FCC15.249(902-928)MH  
 Env. / Ins. : 24°C/56% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 6V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 903.9MHz  
 PD193480

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	679.876	20.70	1.90	12.97	35.57	46.00	10.43	QP
2	712.190	20.72	1.84	16.20	38.76	46.00	7.24	QP
3	728.196	21.21	1.84	12.38	35.43	46.00	10.57	QP
4	743.900	21.88	1.94	13.53	37.35	46.00	8.65	QP
5	891.880	22.88	2.24	13.20	38.32	46.00	7.68	QP
6	903.900	22.92	2.20	67.34	92.46	94.00	1.54	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



## 7. DEVIATION TO TEST SPECIFICATIONS

[NONE]