

Report No: JYTSZB-R12-2100667

FCC REPORT

| Applicant: | SHENZHEN LOFTYNN INTELLIGENCE CO., LTD. |
|-------------------------|---|
| Address of Applicant: | ROOM 812 BLK G PANORAMA, DALANG COMMUNITY XINAN BAOAN, SHENZHEN, China P.R,C |
| Equipment Under Test (E | EUT) |
| Product Name: | Baby Monitor |
| Model No.: | A2HD |
| FCC ID: | 2AJD6-A2HDR |
| Applicable standards: | FCC CFR Title 47 Part 15 Subpart C Section 15.247 |
| Date of sample receipt: | 25 Apr., 2021 |
| Date of Test: | 25 Apr., to 10 Jun., 2021 |
| Date of report issued: | 11 Jun., 2021 |
| Test Result: | PASS * |

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | 11 Jun., 2021 | Original |
| | | |
| | | |
| | | |
| | | |

Cavey Chen Test Engineer Winner Thang

Tested by:

11 Jun., 2021 Date:

Reviewed by:

Project Engineer

11 Jun., 2021 Date:

Project No.: JYTSZE2104100



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4 Test Summary

| Test Items | Section in CFR 47 | Test Data | Result | |
|----------------------------------|---------------------|--------------------|--------|--|
| Antenna Requirement | 15.203 & 15.247 (b) | See Section 6.1 | Pass | |
| AC Power Line Conducted Emission | 15.207 | See Section 6.2 | Pass | |
| Conducted Peak Output Power | 15.247 (b)(1) | Appendix A – SRD | Pass | |
| 20dB Occupied Bandwidth | 15.247 (a)(1) | Appendix A – SRD | Pass | |
| Carrier Frequencies Separation | 15.247 (a)(1) | Appendix A – SRD | Pass | |
| Hopping Channel Number | 15.247 (a)(1) | Appendix A – SRD | Pass | |
| Dwell Time | 15.247 (a)(1) | Appendix A – SRD | Pass | |
| Conducted Band Edge | 45 005 8 45 000 | Appendix A – SRD | Pass | |
| Radiated Band Edge | - 15.205 & 15.209 | See Section 6.9.2 | Pass | |
| Conducted Spurious Emission | | Appendix A – SRD | Pass | |
| Radiated Spurious Emission | 15.247(d) | See Section 6.10.2 | Pass | |
| Remark: | 1 | 1 | | |

Pass: The EUT complies with the essential requirements in the standard. 1.

2. N/A: Not Applicable.

The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by З. the customer).

| Toot Mathadi | ANSI C63.10-2013 |
|--------------|--|
| Test Method: | KDB 558074 D01 15.247 Meas Guidance v05r02 |



5 General Information

5.1 Client Information

| Applicant: | SHENZHEN LOFTYNN INTELLIGENCE CO., LTD. |
|-----------------------|--|
| Address: | ROOM 812 BLK G PANORAMA, DALANG COMMUNITY XINAN BAOAN, SHENZHEN, China P.R,C |
| Manufacturer/Factory: | EXVISION INDUSTRIES LIMITED |
| Address: | 3/F, No. 65, Gongye 6th Road, Longyan, Humen, Dongguan, 523925 China, P.R.C |

5.2 General Description of E.U.T.

| Product Name: | Baby Monitor |
|------------------------|---|
| Model No.: | A2HD |
| Operation Frequency: | 2410MHz~2477MHz |
| Transfer rate: | 3.5 Mbits/s |
| Number of channel: | 20 |
| Modulation type: | GFSK |
| Modulation technology: | FHSS |
| Antenna Type: | Internal Antenna |
| Antenna gain: | 0 dBi |
| Power supply: | Rechargeable Li-ion Battery DC3.7V, 3000mAh |
| AC adapter: | Model: GQ07-075050-AU |
| | Input: AC100-240V, 50/60Hz, 0.3A |
| | Output: DC 7.5V, 500mA |
| Test Sample Condition: | The test samples were provided in good working order with no visible defects. |

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 1 | 2410MHz | 13 | 2452MHz |
| 2 | 2413.5MHz | 14 | 2455.5MHz |
| 3 | 2417MHz | 15 | 2459MHz |
| 4 | 2420.5MHz | 16 | 2462.5MHz |
| 5 | 2424MHz | 17 | 2466MHz |
| 6 | 2427.5MHz | 18 | 2469.5MHz |
| 7 | 2431MHz | 19 | 2473MHz |
| 8 | 2434.5MHz | 20 | 2477MHz |
| 9 | 2438MHz | | |
| 10 | 2441.5MHz | | 1 |
| 11 | 2445MHz | | 1 |
| 12 | 2448.5MHz | | |



5.3 Test environment and mode

| Operating Environment: | | |
|---|---|--|
| Temperature: | 24.0 °C | |
| Humidity: | 54 % RH | |
| Atmospheric Pressure: | 1010 mbar | |
| Test Modes: | | |
| Non-hopping mode: | Keep the EUT in continuous transmitting mode with worst case data rate. | |
| Hopping mode: | Keep the EUT in hopping mode. | |
| Remark | GFSK (3.5 Mbps) is the worst case mode. | |
| Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane | | |

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

| Parameters | Expanded Uncertainty |
|-------------------------------------|----------------------|
| Conducted Emission (9kHz ~ 30MHz) | ±1.60 dB (k=2) |
| Radiated Emission (9kHz ~ 30MHz) | ±3.12 dB (k=2) |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.32 dB (k=2) |
| Radiated Emission (1GHz ~ 18GHz) | ±5.16 dB (k=2) |
| Radiated Emission (18GHz ~ 40GHz) | ±3.20 dB (k=2) |

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com



5.9 Test Instruments list

| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
|---------------------------------|-----------------|---------------|---------------|-------------------------|-----------------------------|
| 3m SAC | ETS | 9m*6m*6m | 966 | 01-19-2021 | 01-18-2024 |
| BiConiLog Antenna | SCHWARZBECK | VULB9163 | 497 | 03-03-2021 | 03-02-2022 |
| Biconical Antenna | SCHWARZBECK | VUBA9117 | 359 | 06-18-2020 | 06-17-2021 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 916 | 03-03-2021 | 03-02-2022 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 1805 | 06-18-2020 | 06-17-2021 |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170582 | 11-18-2020 | 11-17-2021 |
| EMI Test Software | AUDIX | E3 | V | /ersion: 6.110919b | |
| Pre-amplifier | HP | 8447D | 2944A09358 | 03-03-2021 | 03-02-2022 |
| Pre-amplifier | CD | PAP-1G18 | 11804 | 03-03-2021 | 03-02-2022 |
| Spectrum analyzer | Rohde & Schwarz | FSP30 | 101454 | 03-03-2021 | 03-02-2022 |
| Spectrum analyzer | Rohde & Schwarz | FSP40 | 100363 | 11-18-2020 | 11-17-2021 |
| EMI Test Receiver | Rohde & Schwarz | ESRP7 | 101070 | 03-03-2021 | 03-02-2022 |
| Spectrum Analyzer | Agilent | N9020A | MY50510123 | 11-18-2020 | 11-17-2021 |
| Signal Generator | Rohde & Schwarz | SMX | 835454/016 | 03-03-2021 | 03-02-2022 |
| Signal Generator | R&S | SMR20 | 1008100050 | 03-03-2021 | 03-02-2022 |
| RF Switch Unit | MWRFTEST | MW200 | N/A | N/A | N/A |
| Test Software | MWRFTEST | MTS8200 | | Version: 2.0.0.0 | |
| Cable | ZDECL | Z108-NJ-NJ-81 | 1608458 | 03-03-2021 | 03-02-2022 |
| Cable | MICRO-COAX | MFR64639 | K10742-5 | 03-03-2021 | 03-02-2022 |
| Cable | SUHNER | SUCOFLEX100 | 58193/4PE | 03-03-2021 | 03-02-2022 |
| DC Power Supply | XinNuoEr | WYK-10020K | 1409050110020 | 09-25-2020 | 09-24-2021 |
| Temperature Humidity Chamber | HengPu | HPGDS-500 | 20140828008 | 11-01-2020 | 10-31-2021 |
| Simulated Station | Rohde & Schwarz | CMW500 | 140493 | 07-22-2020 | 07-21-2021 |

| Conducted Emission: | | | | | |
|---------------------|--|------------|-------------|-------------------------|-----------------------------|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101189 | 03-03-2021 | 03-02-2022 |
| Pulse Limiter | SCHWARZBECK | OSRAM 2306 | 9731 | 03-03-2021 | 03-02-2022 |
| LISN | CHASE | MN2050D | 1447 | 03-03-2021 | 03-02-2022 |
| LISN | Rohde & Schwarz | ESH3-Z5 | 8438621/010 | 06-18-2020 | 06-17-2021 |
| Cable | HP | 10503A | N/A | 03-03-2021 | 03-02-2022 |
| EMI Test Software | MI Test Software AUDIX E3 Version: 6.110919b | | |) | |

| Conducted method: | | | | | | | | | |
|-------------------------|-----------------|------------|------------------|-------------------------|-----------------------------|--|--|--|--|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) | | | | |
| Spectrum Analyzer | Keysight | N9010B | MY60240202 | 11-27-2020 | 11-26-2021 | | | | |
| Vector Signal Generator | Keysight | N5182B | MY59101009 | 11-27-2020 | 11-26-2021 | | | | |
| Analog Signal Generator | Keysight | N5173B | MY59100765 | 11-27-2020 | 11-26-2021 | | | | |
| Power Detector Box | MWRF-test | MW100-PSB | MW201020JYT | 11-27-2020 | 11-26-2021 | | | | |
| Simulated Station | Rohde & Schwarz | CMW270 | 102335 | 11-27-2020 | 11-26-2021 | | | | |
| RF Control Box | MWRF-test | MW100-RFCB | MW200927JYT | N/A | N/A | | | | |
| PDU | MWRF-test | XY-G10 | N/A | N/A | N/A | | | | |
| Test Software | MWRF-tes | MTS 8310 | Version: 2.0.0.0 | | | | | | |
| DC Power Supply | Keysight | E3642A | MY60296194 | 11-27-2020 | 11-26-2021 | | | | |



6 Test results and measurement data

6.1 Antenna Requirement

| Standard requirement: | FCC Part 15 C Section 15.203 & 247(b) |
|--|--|
| responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohit 15.247(b) (4) requirement: (4) The conducted output po antennas with directional ga section, if transmitting anten power from the intentional ra | be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit in be replaced by the user, but the use of a standard antenna jack or bited. ower limit specified in paragraph (b) of this section is based on the use of ins that do not exceed 6 dBi. Except as shown in paragraph (c) of this inas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), tion, as appropriate, by the amount in dB that the directional gain of the |
| E.U.T Antenna: | |
| The Bluetooth antenna is an the antenna is 0 dBi. | Internal antenna which permanently attached, and the best case gain of |



6.2 Conducted Emissions

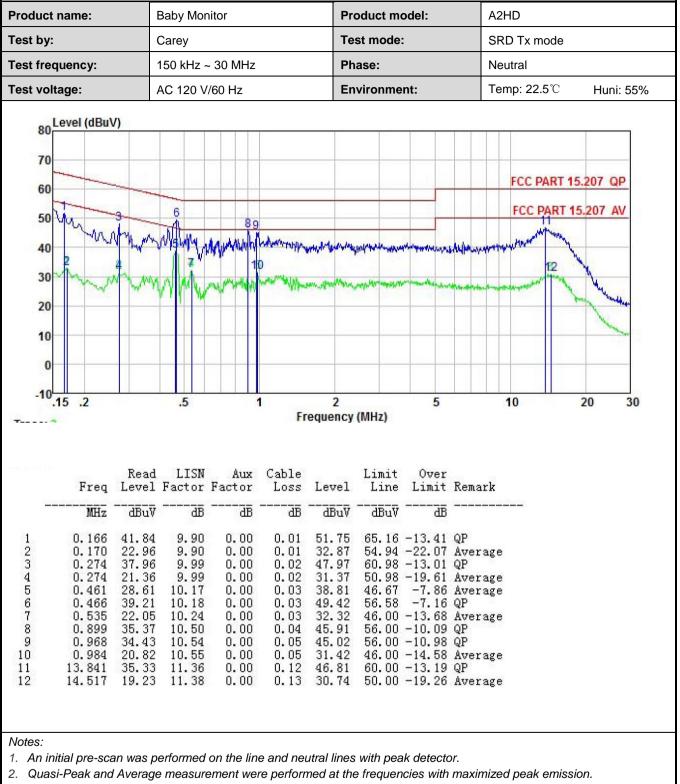
| Test Requirement: | FCC Part 15 C Section 15. | 207 | | | | |
|-----------------------|--|------------|-----------|--|--|--|
| Test Frequency Range: | 150 kHz to 30 MHz | | | | | |
| Class / Severity: | Class B | | | | | |
| Receiver setup: | RBW=9 kHz, VBW=30 kHz, Sweep time=auto | | | | | |
| Limit: | 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 | | | |
| Test setup: | * Decreases with the logari Reference PI | | | | | |
| Tost procedure: | AUX Equipment Test table/Insulation plane Remark E.U.T. EUT: Equipment Under Test LISN: Line Impedence Stabilization Networ Test table height=0.8m | | | | | |
| Test procedure: | The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement. | | | | | |
| Test Instruments: | Refer to section 5.9 for det | ails | | | | |
| Test mode: | Hopping mode | | | | | |
| Test results: | Pass | | | | | |



Measurement Data:

| Product name: | Baby Monitor | | Product | model: | | A2HD | | | |
|--|---|---|--|--|--|--|--|-------------------------------------|--|
| Test by: | Carey | | Test mode: | | | SRD Tx mode | | | |
| Test frequency: | 150 kHz ~ 30 |) MHz | | Phase: | | | Line | | |
| Test voltage: | AC 120 V/60 Hz | | | Environ | ment: | | Temp: 22.5℃ Huni: 55% | | |
| 80 For the second seco | .5 | 10 profit for the state of the state of the | 2 | Negar Markanya | su ⁿ anuardhaga 5 | | FCC PAF | T 15.207 QP T 15.207 AV 20 30 | |
| Freq | Read LISN Level Factor | | Cable Loss | Level | Limit Line | Over Limit | Remark | | |
| MHz | dBu∛ dB | āā | ₫₿ | dBu∛ | | āā | | | |
| | 41.33 10.13 40.75 10.13 26.43 10.26 35.21 10.32 44.61 10.32 39.23 10.35 26.64 10.35 25.18 10.39 27.12 10.45 37.61 10.47 36.00 11.01 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.01 0.02 0.03 0.03 0.03 0.03 0.02 0.04 0.05 0.12 0.13 | 51.47 50.89 36.71 45.56 54.96 49.61 37.02 35.59 37.61 48.13 47.13 34.41 | $\begin{array}{c} 64.59\\ 48.69\\ 46.76\\ 56.71\\ 56.00\\ 46.00\\ 46.00\\ 46.00\\ 56.00\\ 56.00\\ 60.00\\ \end{array}$ | -1.20 -1.75 -6.39 -8.98 -10.41 -8.39 -7.87 -12.87 | QP Average QP QP Average Average Average QP | | |





3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



| Test Requirement: | FCC Part 15 C Section 15.247 (b)(1) |
|-------------------|---|
| Receiver setup: | RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=2MHz, VBW=6MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz) |
| Limit: | For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts. |
| Test setup: | |
| Test Instruments: | Refer to section 5.9 for details |
| Test mode: | Non-hopping mode |
| Test results: | Pass |
| Measurement Data: | Refer to Appendix A - SRD |

6.3 Conducted Output Power

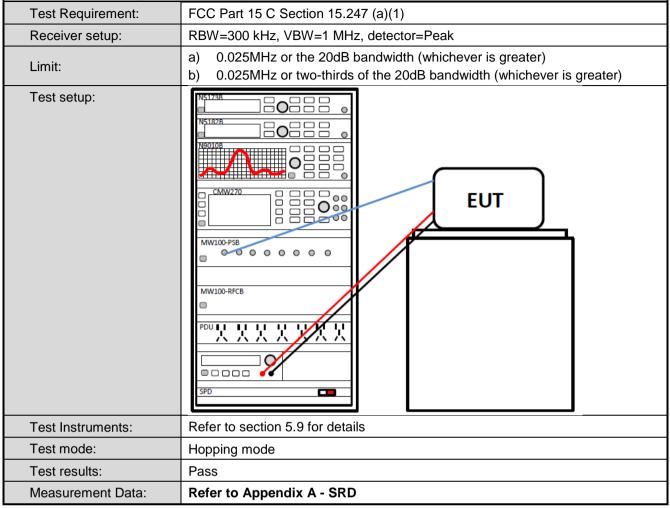


6.4 20dB Occupy Bandwidth

| Test Requirement: | FCC Part 15 C Section 15.247 (a)(1) |
|-------------------|---|
| Receiver setup: | DH1: RBW=15 kHz, VBW=47 kHz, detector=Peak 2DH1&3DH: RBW=20 kHz, VBW=62 kHz, detector=Peak |
| Limit: | Within authorization band |
| Test setup: | |
| Test Instruments: | Refer to section 5.9 for details |
| Test mode: | Non-hopping mode |
| Test results: | Pass |
| Measurement Data: | Refer to Appendix A - SRD |



6.5 Carrier Frequencies Separation



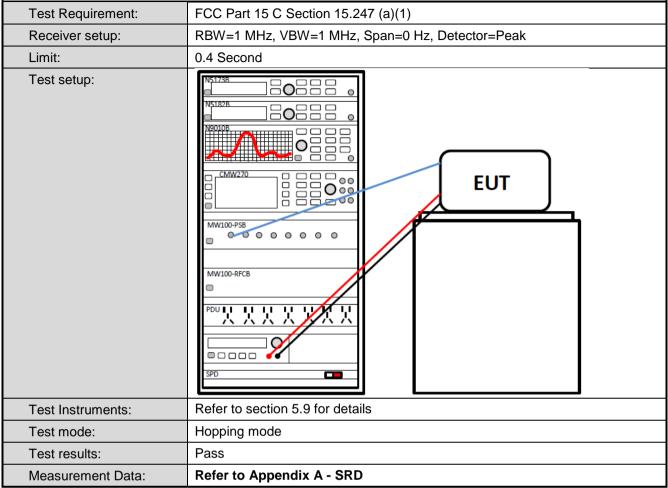


6.6 Hopping Channel Number

| Test Requirement: | FCC Part 15 C Section 15.247 (a)(1) | | | |
|-------------------|--|--|--|--|
| | | | | |
| Receiver setup: | RBW=100 kHz, VBW=300 kHz, Center Frequency=2441MHz, | | | |
| | Frequency Range: 2400MHz~2483.5MHz, Detector=Peak 15 channels | | | |
| Limit: | 15 channels | | | |
| Test setup: | | | | |
| Test Instruments: | Refer to section 5.9 for details | | | |
| Test mode: | Hopping mode | | | |
| Test results: | Pass | | | |
| Measurement Data: | Refer to Appendix A - SRD | | | |



6.7 Dwell Time





6.8 Pseudorandom Frequency Hopping Sequence

| Test Requirement: | FCC Part 15 C Section 15.247 (a)(1) requirement: |
|--|--|
| | shall have hopping channel carrier frequencies separated by a minimum of the hopping channel, whichever is greater. |
| channel carrier frequencies the hopping channel, whichever than 125 mW. The system s rate from a Pseudorandom con on the average by each trans | pping systems operating in the 2400-2483.5 MHz band may have hopping that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the is greater, provided the systems operate with an output power no greater hall hop to channel frequencies that are selected at the system hopping ordered list of hopping frequencies. Each frequency must be used equally smitter. The system receivers shall have input bandwidths that match the of their corresponding transmitters and shall shift frequencies in asmitted signals. |
| EUT Pseudorandom Frequ | ency Hopping Sequence |
| outputs are added in a modu | sequence: 2 ⁹ -1 = 511 bits |
| | |
| Linear Feedback Sl | hift Register for Generation of the PRBS sequence |
| - | m Frequency Hopping Sequence as follow: |
| | 62 64 78 1 73 75 77 |
| The system receivers have i | y on the average by each transmitter. nput bandwidths that match the hopping channel bandwidths of their and shift frequencies in synchronization with the transmitted signals. |



6.9 Band Edge

6.9.1 Conducted Emission Method

| Test Requirement: | FCC Part 15 C Section 15.247 (d) | | | | |
|-------------------|---|--|--|--|--|
| Receiver setup: | RBW=100 kHz, VBW=300 kHz, Detector=Peak | | | | |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | | | | |
| Test setup: | | | | | |
| Test Instruments: | Refer to section 5.9 for details | | | | |
| Test mode: | Non-hopping mode and hopping mode | | | | |
| Test results: | Pass | | | | |
| Measurement Data: | Refer to Appendix A - SRD | | | | |



6.9.2 Radiated Emission Method

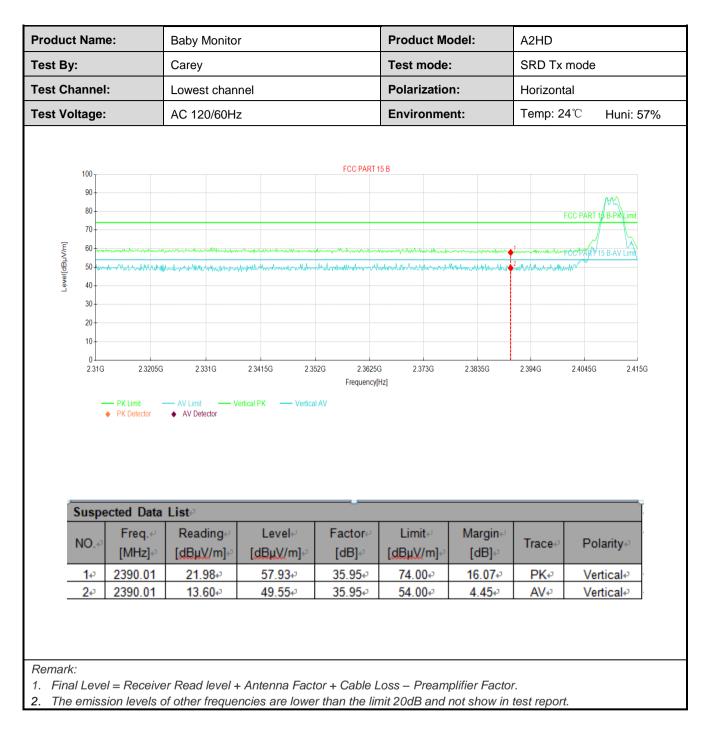
| Test Requirement: | FCC Part 15 C | Section 15.2 | 209 a | and 15.205 | | | | |
|-----------------------|---|--|--|---|--|---|--|--|
| Test Frequency Range: | 2310 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz | | | | | | | |
| Test Distance: | 3m | | | | | | | |
| Receiver setup: | Frequency Detect | | or RBW | | VBW | | Remark | |
| | Above 1GHz | Peak | | 1MHz | 3MHz | | Peak Value | |
| | Above IGH2 | RMS | | 1MHz | 3MHz | | Average Value | |
| Limit: | Frequence | Frequency Limit (dBu | | | | Remark | | |
| | Above 1G | H7 | | 54.00 | | Average Value | | |
| | 7,6070 10 | 112 | 74.00 | | | I | Peak Value | |
| Test setup: | AE EUT Horn Artenna Tower Horn Artenna Tower Ground Reference Plane Test Receiver Angular Controller | | | | | | | |
| Test Procedure: | determine the 2. The EUT was antenna, whi tower. 3. The antenna ground to de horizontal an measurement 4. For each sus and then the the rota table maximum reat 5. The test-rece Bandwidth w 6. If the emission limit specified EUT would b margin would | a meter caml e position of s set 3 meter ch was mouth height is van termine the n id vertical point. spected emise antenna wa was turned ading. eiver system ith Maximum on level of the d, then testin be reported. (d | ber. the rrs aver ried max blariz ssior s tur from was n Ho e EL ng cc Othe | The table was highest radiation way from the in a on the top of from one meter imum value of cations of the a n, the EUT was ned to heights n 0 degrees to s set to Peak E old Mode. JT in peak mo- ould be stoppe | s rotation. Interfe a vari er to fo the fi antenr s arran from 0 360 o Detect de wa d and ssions g peal | ed 360 rence-re able-he our met eld stre ha are s nged to 1 meter degrees Function as 10dB I the pea s that dia k, quasi | degrees to eceiving ight antenna ers above the ngth. Both et to make the its worst case to 4 meters and to find the on and Specified lower than the ak values of the d not have 10dB -peak or | |
| Test Instruments: | Refer to section | 5.9 for deta | ails | - | | | | |
| Test mode: | Non-hopping m | ode | | | | | | |
| Test results: | Passed | | | | | | | |



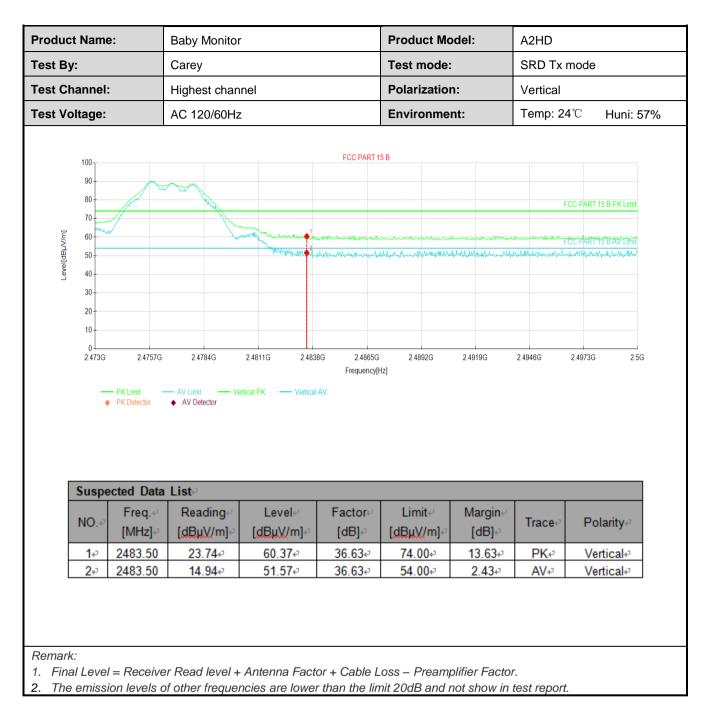
GFSK Mode:

| | lame: | Baby Monitor | | | Product Mo | | A2HD | | | |
|---|---|--------------------------------|---|---------------------------------------|--|------------------------|--|----------|-------------|------------------|
| est By: | | Carey | | | | Test mode: | : | SRD Tx | mode | |
| est Chan | nnel: | | Lowest chan | nel | | Polarization: Vertical | | Vertical | | |
| est Volta | age: | | AC 120/60Hz | 2 | | Environme | nt: | Temp: 24 | 4 ℃ | Huni: 57% |
| 9 8 7 Generation 9 8 7 9 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 8 8 | 40 | in a second | anne an | hydryfrad dydru, dyn, dyn, dyn, dyn, | FCC PART 1 | 5 B | John State | 1 | FCC PART 15 | hun |
| 1 | 20 10 0 2.31G PKL | 2 3205G Jimit – Jetector | 2.331G AV Limit — Ho AV Detector | 2.3415G 2.35. orizontal PK — Horiz | 2G 2.36250 Frequency[I zontal AV | | 2.3835G | 2.394G | 2.4045G | 2.415G |
| 1 | 10 0 2.31G — PK L | -imit — Detector | AV Limit Ho AV Detector | | Frequency[ł | | 2.3835G | 2.394G | 2.4045G | 2.415G |
| Su | 10 2.31G PKI PKI | -imit — Detector | AV Limit Ho AV Detector | | Frequency[ł | | 2.3835G 2.3835G Margin 4 ³ [dB] 4 ³ | 2.394G | | 2.415G arity₄ |
| Su NO | 10 0 231G → PKI → PKI → PKI 14-2 23 | imit → Detector → | AV Limit — Ho ♦ AV Detector List Reading | orizontal PK — Horiz Level«J | Frequency[i zontal AV Factor⊷ | tz] Limit⊷' | Margin∉ | | Pola | |

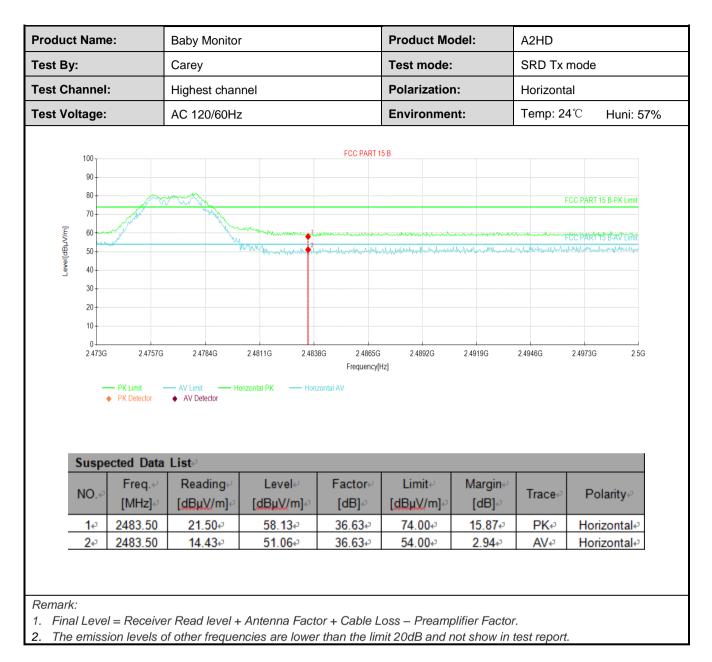














6.10 Spurious Emission

6.10.1 Conducted Emission Method

| Test Requirement: | FCC Part 15 C Section 15.247 (d) | | | | | |
|-------------------|---|--|--|--|--|--|
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | | | | | |
| Test setup: | | | | | | |
| Test Instruments: | Refer to section 5.9 for details | | | | | |
| Test mode: | Non-hopping mode | | | | | |
| Test results: | Pass | | | | | |
| Measurement Data: | Refer to Appendix A - SRD | | | | | |



6.10.2 Radiated Emission Method

| Test Requirement: | FCC Part 15 C S | Section 15.2 | 209 | | | | | |
|-----------------------|---|---|--------------------------|---|-------------------------------------|----------------------------|--|--|
| Test Frequency Range: | 9 kHz to 25 GHz | | | | | | | |
| Test Distance: | 3m | | | | | | | |
| Receiver setup: | Frequency | Detecto | or | RBW | VBW | 1 | Remark | |
| | 30MHz-1GHz | Quasi-pe | eak | 120kHz | 300kH | z (| Quasi-peak Value | |
| | | Peak | | 1MHz | 3MHz | z | Peak Value | |
| | Above 1GHz | RMS | | 1MHz | 3MHz | z | Average Value | |
| Limit: | Frequenc | ;y | Lim | nit (dBuV/m | @3m) | | Remark | |
| | 30MHz-88N | /Hz | | 40.0 | | Qı | uasi-peak Value | |
| | 88MHz-216 | MHz | | 43.5 | | Quasi-peak Value | | |
| | 216MHz-960 | MHz | | 46.0 | | Quasi-peak Value | | |
| | 960MHz-10 | GHz | | 54.0 | | Qı | uasi-peak Value | |
| | Ab av a 401 | | 54.0 | | Average Value | | | |
| | Above 1G | HZ | 74.0 | | | | Peak Value | |
| Tat Drooodure | Above 1GHz | d Plane | Test Ro | Ground Reference Plane | Pre- | ARF Test Receive | | |
| Test Procedure: | The EUT was /1.5m(above) was rotated 3 radiation. The EUT was antenna, which | 1GHz) abo 60 degrees s set 3 mete | ve th s to c ers a | ne ground at determine the way from the | a 3 mete e positio e interfer | er cha n of th ence- | mber. The table le highest receiving | |

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| | tower.3. 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. | | | | |
|-------------------|--|--|--|--|--|
| | 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. | | | | |
| | 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. | | | | |
| | 6. 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. | | | | |
| Test Instruments: | Refer to section 5.9 for details | | | | |
| Test mode: | Non-hopping mode | | | | |
| Test results: | Pass | | | | |
| Remark: | Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30 MHz is noise floor and lower than the limit 20dB, so only shows the data of above 30MHz in this report. | | | | |



Measurement Data (worst case):

Below 1GHz:

| Product Name: Test By: | | Baby Monitor Product Model: Carey Test mode: | | | duct Model: | A2HD | A2HD | | |
|---------------------------|------------|--|----------------|---------------------|--------------------|----------------------|-------------------|------------------------|-----|
| | | | | | SRD 1 | SRD Tx mode | | | |
| Test Fre | equency | /: | 30 MHz ~ 1 GHz | Pola | arization: | Vertica | Vertical | | |
| Test Vol | Itage: | | AC 120/60Hz | Env | ironment: | Temp | : 24 ℃ Hur | ni: 579 | |
| Level(dBpJVim) | | OP Limit QP Detector | Vertical PK | 3 2 2 100M | FCC PART 15.247 | Limit | Margine | FCC PART 15247-QP Lim | 11G |
| | NO.∉ | [MHz] | | [dBµV/m]₀ | [dB] | [dBµV/m]₀ | [dB]∉ | Polarity∉ | |
| | 1 ₽ | 39.798 | 0₽ 44.01₽ | 27.19 | - 16.82 ₽ | <mark>40.00</mark> ₽ | 12.81 ₽ | Vertical e | 4 |
| | 2₽ | 95.675 | 6₽ 47.82₽ | 28.80 | - 19.02 ₽ | 43.50₽ | 14.70 ₽ | Vertical e | 4 |
| L – | | | 3 56.77₽ | 38.58 | -18.19₽ | 43.50↩ | 4.92 ₽ | Vertical . | |
| E | 3₽ | 104.50 | 5 50.114 | 00.00* | -10.19@ | 43.30₽ | 1.02 | | - |
| | 3⊷ 4⊷ | 104.50 | | <u>33.15</u> ₽ | -18.19₽ -17.53₽ | 43.50₽ 43.50₽ | 10.35 | Vertical <i></i> ∘ | 4 |
| - | | | 9 50.68₽ | | | | | | |

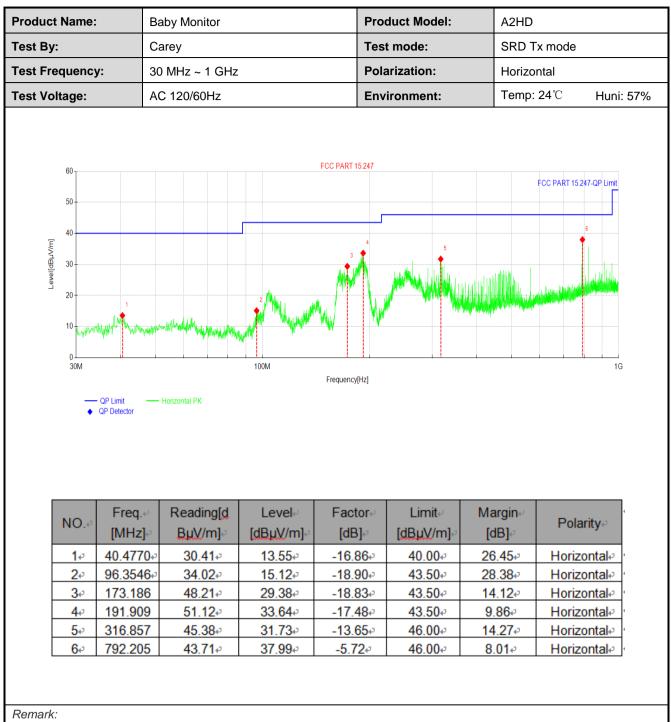
Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

3. The Aux Factor is a notch filter switch box loss, this item is not used.





1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Above 1GHz:

| | | Test ch | annel: Lowest ch | nannel | | |
|--------------------|----------------------|------------|--|------------------------|----------------|--------------|
| | | Det | tector: Peak Valu | ie | | |
| Frequency (MHz) | Read Level (dBuV) | Factor(dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Margin (dB) | Polarization |
| 4820.00 | 56.68 | -10.39 | 46.29 | 74.00 | 27.71 | Vertical |
| 4820.00 | 66.20 | -10.39 | 55.81 | 74.00 | 18.19 | Horizontal |
| | | Dete | ctor: Average Va | lue | | |
| Frequency (MHz) | Read Level (dBuV) | Factor(dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Margin (dB) | Polarizatior |
| 4820.00 | 48.21 | -10.39 | 37.82 | 54.00 | 16.18 | Vertical |
| 4820.00 | 58.37 | -10.39 | 47.98 | 54.00 | 6.02 | Horizontal |
| | | Test ch | annel: Middle ch | annel | | |
| | | Det | ector: Peak Valu | le | | |
| Frequency (MHz) | Read Level (dBuV) | Factor(dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Margin (dB) | Polarizatior |
| 4883.00 | 56.52 | -10.18 | 46.34 | 74.00 | 27.66 | Vertical |
| 4883.00 | 65.80 | -10.18 | 55.62 | 74.00 | 18.38 | Horizontal |
| | | Dete | ctor: Average Va | lue | | |
| Frequency (MHz) | Read Level (dBuV) | Factor(dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Margin (dB) | Polarizatior |
| 4883.00 | 48.01 | -10.18 | 37.83 | 54.00 | 16.17 | Vertical |
| 4883.00 | 58.50 | -10.18 | 48.32 | 54.00 | 5.68 | Horizontal |
| | | | annel: Highest ch rector: Peak Valu | | | |
| Frequency (MHz) | Read Level (dBuV) | Factor(dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Margin (dB) | Polarization |
| 4954.00 | 56.81 | -10.12 | 46.69 | 74.00 | 27.31 | Vertical |
| 4954.00 | 65.46 | -10.12 | 55.34 | 74.00 | 18.66 | Horizontal |
| | | Dete | ctor: Average Va | alue | | |
| _ | Read Level | Factor(dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Margin (dB) | Polarization |
| Frequency (MHz) | (dBuV) | | (0.201.11) | (/ | , | |
| | (dBuV) 47.53 | -10.12 | 37.41 | 54.00 | 16.59 | Vertical |

2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.