



RADIO TEST REPORT

FCC ID:2AWCB-KT-W01A

Product Designation : Mia Baby sound machine
Trade mark : N/A
Model Name : KT-W01A
Applicant : SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD
Date of Issue : May. 12, 2020
Standard(s) : FCC Part 15.247
Report No : DGE200413005D

Prepared for

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Prepared by

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Revision History

| Report No. | Version | Description | Issued Date |
|-------------------|----------------|-------------------------|--------------------|
| DGE200413005D | Rev.01 | Initial issue of report | May 16, 2020 |
| | | | |
| | | | |
| | | | |
| | | | |

1. TEST RESULT CERTIFICATION

| | |
|-----------------------------------|---|
| Applicant's name.....: | SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD |
| Address.....: | Software Building, No. 9 Gaoxin Zhong Yi Road, High-Tech Park, Nanshan district, Shenzhen City ,Guangdong Provice,P.R.China |
| Manufacturer's Name.....: | SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD |
| Address.....: | Software Building, No. 9 Gaoxin Zhong Yi Road, High-Tech Park, Nanshan district, Shenzhen City ,Guangdong Provice,P.R.China |
| Product description | |
| Product name.....: | Mia Baby sound machine |
| Trademark | N/A |
| Model and/or type reference | KT-W01A |
| Serial Model.....: | N/A |
| Difference Description.....: | N/A |
| Standards.....: | FCC Part 15.247 |

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., 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.

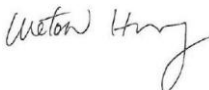
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The test results of this report relate only to the tested sample identified in this repor.

Date of Test : 15 Apr. 2020 ~ 12 May. 2020

Testing Engineer : 
(Estelle Chen)

Technical Manager : 
(Murphy Chen)

Authorized Signatory : 
(Wetow Huang)

2. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------|---|-----------|
| §15.247 | Output Power | Compliant |
| §15.247 | 6 dB Bandwidth | Compliant |
| §15.247 | Conducted Spurious Emission | Compliant |
| §15.247 | Maximum Conducted Output Power SPECTRAL Density | Compliant |
| §15.209 | Radiated Emission | Compliant |
| §15.247 | Band Edges | Compliant |
| §15.207 | Line Conduction Emission | Compliant |
| §15.203 | Antenna Requirement | Compliant |

3.FACILITIES AND ACCREDITATIONS

3.1. FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2.LABORATORY ACCREDITATIONS AND LISTINGS

| | |
|------------------|--|
| Site Description | |
| EMC Lab | Accredited by CNAS, 2014.09.04 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516. |
| | Accredited by FCC, September 6, 2013 The Certificate Registration Number is 238937. |
| | Accredited by Industry Canada, August 29, 2012 The Certificate Registration Number is 9270A-1. |
| Name of Firm | : Shenzhen NTEK Testing Technology Co., Ltd |
| Site Location | : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China. |

3.3.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 | $\pm 2\%$ |

4.GENERAL DESCRIPTION OF EUT

4.1. PRODUCT DESCRIPTION

The EUT is designed as “White noise WIFI edition”. It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

| | |
|------------------------------|---|
| Operation Frequency | 2.412 GHz ~ 2.462GHz |
| Output Power(Average) | IEEE 802.11b:14.81dBm; IEEE 802.11g:12.11dBm; IEEE 802.11n(20):10.96dBm; IEEE 802.11n(40):11.22dBm |
| Modulation | DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM) |
| Number of channels | 11 |
| Hardware Version | V1.0 |
| Software Version | V1.0 |
| Antenna Designation | PCB antenna |
| Antenna Gain | 2.0dBi |
| Power Supply | Input:AC100V~240V 50/60Hz 0.2A;Output:DC 5V 1500mA by adapter |

4.2. TABLE OF CARRIER FREQUENCIES

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| 2400~2483.5MHZ | 1 | 2412 MHZ |
| | 2 | 2417 MHZ |
| | 3 | 2422 MHZ |
| | 4 | 2427 MHZ |
| | 5 | 2432 MHZ |
| | 6 | 2437 MHZ |
| | 7 | 2442 MHZ |
| | 8 | 2447 MHZ |
| | 9 | 2452 MHZ |
| | 10 | 2457 MHZ |
| | 11 | 2462 MHZ |

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11, For 40MHZ bandwidth system use Channel 3 to Channel 9

4.3. IEEE 802.11N MODULATION SCHEME

| MCS Index | Nss | Modulation | R | NBPS | NCBPS | | NDBPS | | Data rate(Mbps) | |
|-----------|-----|------------|-----|------|-------|-------|-------|-------|-----------------|-------|
| | | | | | | | | | 800nsGI | |
| | | | | | 20MHz | 40MHz | 20MHz | 40MHz | 20MHz | 40MHz |
| 0 | 1 | BPSK | 1/2 | 1 | 52 | 108 | 26 | 54 | 6.5 | 13.5 |
| 1 | 1 | QPSK | 1/2 | 2 | 104 | 216 | 52 | 108 | 13.0 | 27.0 |
| 2 | 1 | QPSK | 3/4 | 2 | 104 | 216 | 78 | 162 | 19.5 | 40.5 |
| 3 | 1 | 16-QAM | 1/2 | 4 | 208 | 432 | 104 | 216 | 26.0 | 54.0 |
| 4 | 1 | 16-QAM | 3/4 | 4 | 208 | 432 | 156 | 324 | 39.0 | 81.0 |
| 5 | 1 | 64-QAM | 2/3 | 6 | 312 | 648 | 208 | 432 | 52.0 | 108.0 |
| 6 | 1 | 64-QAM | 3/4 | 6 | 312 | 648 | 234 | 489 | 58.5 | 121.5 |
| 7 | 1 | 64-QAM | 5/6 | 6 | 312 | 648 | 260 | 540 | 65.0 | 135.0 |

| Symbol | Explanation |
|--------|---|
| NSS | Number of spatial streams |
| R | Code rate |
| NBPS | Number of coded bits per single carrier |
| NCBPS | Number of coded bits per symbol |
| NDBPS | Number of data bits per symbol |
| GI | Guard interval |

4.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

4.6. SPECIAL ACCESSORIES

Refer to section 6.2.

4.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

5. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION |
|-----|-----------------------|
| 1 | Low channel TX |
| 2 | Middle channel TX |
| 3 | High channel TX |
| 4 | Normal operating |

Note:

Transmit by 802.11b with Data rate (1/2/5.5/11)

Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)

Transmit by 802.11n (40MHz) with Data rate (13.5/27/40.5/54/81/108/121.5/135)

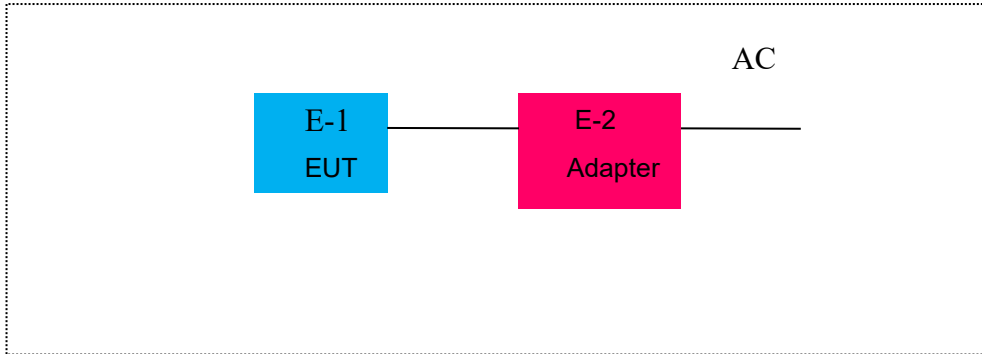
Note:

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

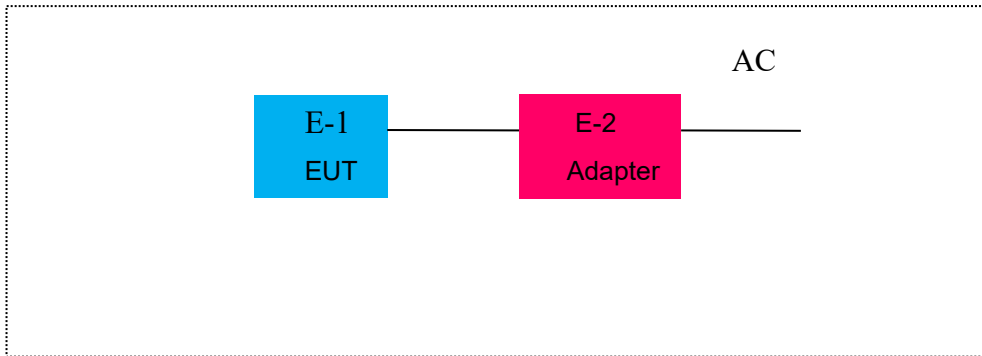
6. SYSTEM TEST CONFIGURATION

6.1. CONFIGURATION OF EUT SYSTEM

For AC Conducted Emission Mode



For Radiated Test Cases



6.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|------------------------|----------------|--|-------------|
| 1 | Mia Baby sound machine | KT-W01A | FCC ID:2AWCB-KT-W01A | EUT |
| 2 | Adapter | SR-C50501500U1 | Input:AC100V~240V 50/60Hz 0.2A;Output:DC 5V 1500mA | Accessories |

6. TEST FACILITY

Radiation Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|---|--------------|-----------------|------------|------------------|------------------|--------------------|
| 1 | Spectrum Analyzer | Agilent | E4407B | MY45108040 | 2019.07.06 | 2020.07.05 | 1 year |
| 2 | Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2019.11.19 | 2020.11.18 | 1 year |
| 3 | Test Receiver | R&S | ESPI | 101318 | 2019.06.07 | 2020.06.06 | 1 year |
| 4 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2019.07.06 | 2020.07.05 | 1 year |
| 5 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2019.06.07 | 2020.06.06 | 1 year |
| 7 | Horn Antenna | EM | EM-AH-1018 0 | 2011071402 | 2019.07.06 | 2020.07.05 | 1 year |
| 8 | Horn Ant | Schwarzbeck | BBHA 9170 | 9170-181 | 2019.07.06 | 2020.07.05 | 1 year |
| 9 | Pre-Amplifier | EMC | EMC051835 SE | 980246 | 2019.08.09 | 2020.08.09 | 1 year |
| 10 | Loop Antenna | ARA | PLA-1030/B | 1029 | 2019.06.08 | 2020.06.07 | 1 year |
| 11 | Test Cable (9KHz-30MHz) | N/A | R-04 | N/A | 2019.06.06 | 2020.06.05 | 1 year |
| 12 | Test Cable (30MHz-1GHz) | N/A | R-01 | N/A | 2019.07.06 | 2020.07.05 | 1 year |
| 13 | Test Cable (1-18GHz) | N/A | R-02 | N/A | 2019.07.06 | 2020.07.05 | 1 year |
| 14 | High Test Cable(18G-40 GHz) | N/A | R-03 | N/A | 2019.06.06 | 2020.06.05 | 1 year |
| 15 | temporary antenna connector (Note) | NTS | R001 | N/A | N/A | N/A | N/A |

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list.

Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|-------------------------|--------------|----------|------------|------------------|------------------|--------------------|
| 1 | Test Receiver | R&S | ESCI | 101160 | 2019.06.06 | 2020.06.05 | 1 year |
| 2 | LISN | R&S | ENV216 | 101313 | 2019.08.24 | 2020.08.23 | 1 year |
| 3 | LISN | EMCO | 3816/2 | 00042990 | 2019.08.24 | 2020.08.23 | 1 year |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264417 | 2019.06.07 | 2020.06.06 | 1 year |
| 7 | Test Cable (9KHz-30MHz) | N/A | C01 | N/A | 2019.06.08 | 2020.06.07 | 1 year |
| 8 | Test Cable (9KHz-30MHz) | N/A | C02 | N/A | 2019.06.08 | 2020.06.07 | 1 year |
| 9 | Test Cable (9KHz-30MHz) | N/A | C03 | N/A | 2019.06.08 | 2020.06.07 | 1 year |

Note: Each piece of equipment is scheduled for calibration once a year.

7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

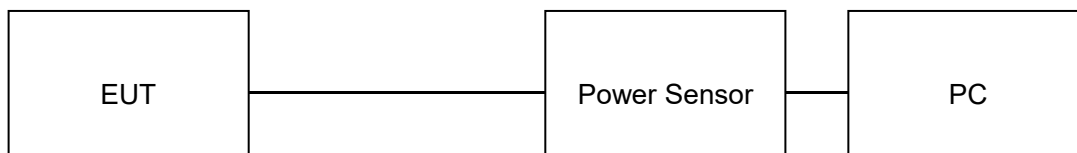
For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on Low channel, Medium channel and High channel respectively.
4. Record the maximum power from the software.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

AVERAGE POWER SETUP



7.3. LIMITS AND MEASUREMENT RESULT

| | |
|------------------|--------------------------|
| TEST ITEM | OUTPUT POWER |
| TEST MODE | 802.11b with data rate 1 |

| Frequency (GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|-----------------|---------------------|-------------------------|--------------|
| 2.412 | 14.64 | 30 | Pass |
| 2.437 | 14.81 | 30 | Pass |
| 2.462 | 14.27 | 30 | Pass |

| | |
|------------------|--------------------------|
| TEST ITEM | OUTPUT POWER |
| TEST MODE | 802.11g with data rate 6 |

| Frequency (GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|-----------------|---------------------|-------------------------|--------------|
| 2.412 | 11.91 | 30 | Pass |
| 2.437 | 12.11 | 30 | Pass |
| 2.462 | 11.05 | 30 | Pass |

| | |
|------------------|-------------------------------|
| TEST ITEM | OUTPUT POWER |
| TEST MODE | 802.11n 20 with data rate 6.5 |

| Frequency (GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|-----------------|---------------------|-------------------------|--------------|
| 2.412 | 10.83 | 30 | Pass |
| 2.437 | 10.96 | 30 | Pass |
| 2.462 | 10.38 | 30 | Pass |

| | |
|------------------|--------------------------------|
| TEST ITEM | OUTPUT POWER |
| TEST MODE | 802.11n 40 with data rate 13.5 |

| Frequency (GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|------------------------|----------------------------|--------------------------------|---------------------|
| 2.422 | 10.75 | 30 | Pass |
| 2.437 | 11.22 | 30 | Pass |
| 2.452 | 10.83 | 30 | Pass |

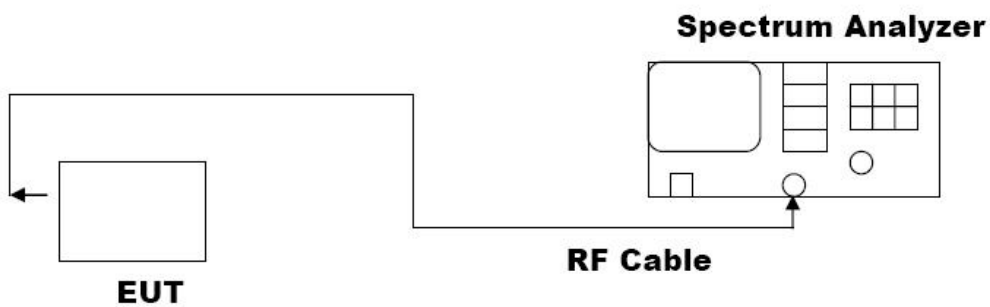
8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on Low channel, Medium channel and High channel respectively.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \geq 3 \times RBW.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



8.3. LIMITS AND MEASUREMENT RESULTS

| | |
|------------------|---------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11b with data rate 11 |

| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|-------------------|---------------------|----------|
| Applicable Limits | Applicable Limits | | |
| | Channel | 6DB BANDWIDTH (MHz) | Criteria |
| >500KHZ | Low Channel | 8.578 | PASS |
| | Middle Channel | 9.010 | PASS |
| | High Channel | 9.037 | PASS |

| | |
|------------------|---------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11g with data rate 54 |

| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|-------------------|---------------------|----------|
| Applicable Limits | Applicable Limits | | |
| | Channel | 6DB BANDWIDTH (MHz) | Criteria |
| >500KHZ | Low Channel | 16.36 | PASS |
| | Middle Channel | 16.38 | PASS |
| | High Channel | 16.36 | PASS |

| | |
|------------------|------------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11n 20 with data rate 65 |

| LIMITS AND MEASUREMENT RESULT | | | |
|-------------------------------|-------------------|---------------------|----------|
| Applicable Limits | Applicable Limits | | |
| | Channel | 6DB BANDWIDTH (MHz) | Criteria |
| >500KHZ | Low Channel | 17.32 | PASS |
| | Middle Channel | 17.33 | PASS |
| | High Channel | 17.55 | PASS |

| | |
|------------------|-------------------------------|
| TEST ITEM | 6DB BANDWIDTH |
| TEST MODE | 802.11n 40 with data rate 135 |

LIMITS AND MEASUREMENT RESULT

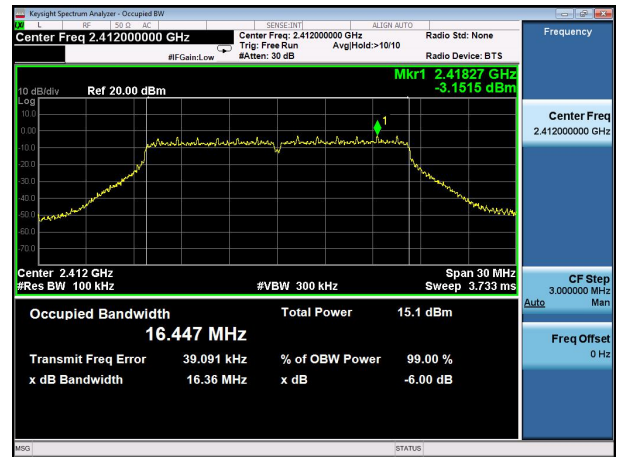
| Applicable Limits | Applicable Limits | | |
|-------------------|-------------------|---------------------|----------|
| | Channel | 6DB BANDWIDTH (MHz) | Criteria |
| >500KHZ | Low Channel | 35.73 | PASS |
| | Middle Channel | 35.72 | PASS |
| | High Channel | 35.91 | PASS |

Test Plot

6dB Bandwidth plot on Low channel (802.11b)



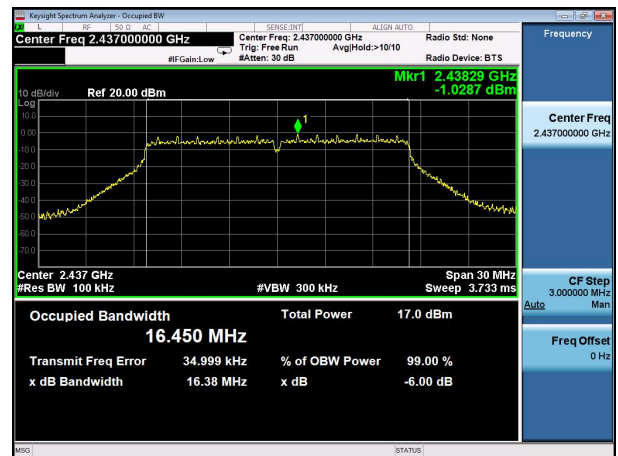
6dB Bandwidth plot on Middle channel (802.11g)



6dB Bandwidth plot on Middle channel (802.11b)



6dB Bandwidth plot on Middle channel (802.11g)



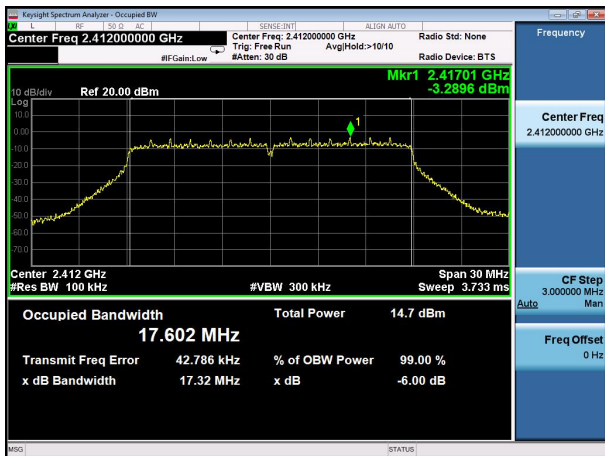
6dB Bandwidth plot on High channel (802.11b)



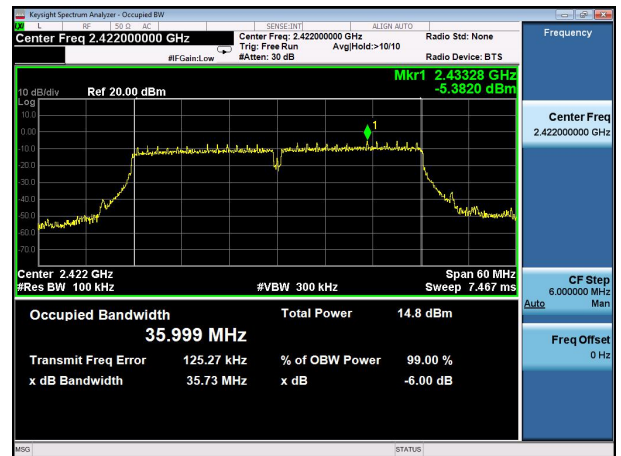
6dB Bandwidth plot on High channel (802.11g)



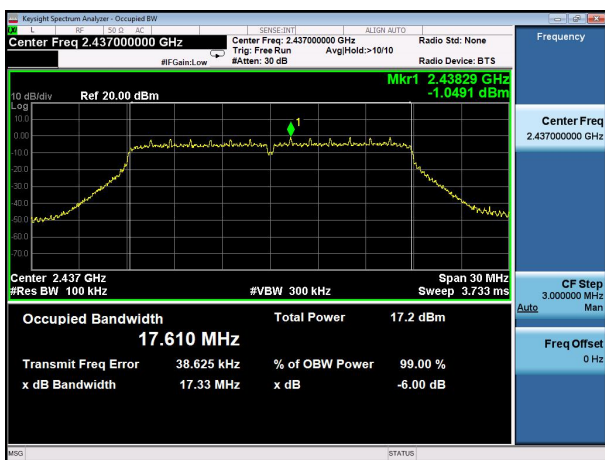
6dB Bandwidth plot on Low channel (802.11n20)



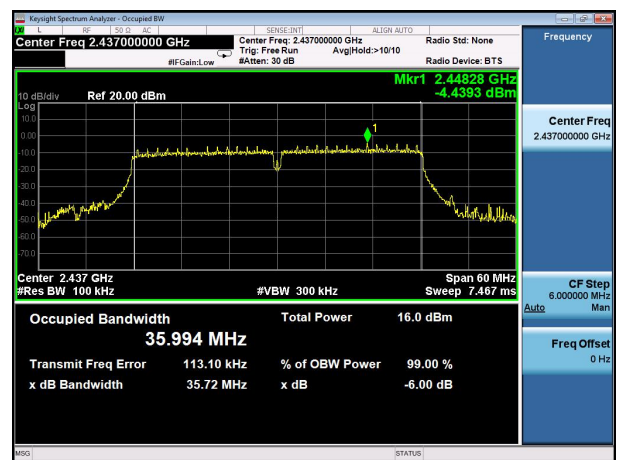
6dB Bandwidth plot on Middle channel (802.11n40)



6dB Bandwidth plot on Middle channel (802.11n20)



6dB Bandwidth plot on Middle channel (802.11n40)



6dB Bandwidth plot on High channel (802.11n20)



6dB Bandwidth plot on High channel (802.11n40)

