Prüfbericht-Nr.: *Test report No.:*	**60364206 001**	**Auftrags-Nr.:** *Order No.:*	168150307	Seite 1 von 24 *Page 1 of 24*
Kunden-Referenz-Nr.: *Client reference No.:*	N/A	**Auftragsdatum:** *Order date.:*	15.01.2020	
Auftraggeber: *Client:*	**Binatone Electronics International Ltd.** Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong			
Prüfgegenstand: *Test item:*	4.3" Video Baby Monitor (Baby Unit)			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	EASE34BU, MBP44ABU, MBP482ANXLBU, MBP483XLBU (Trademark: motorola)			
Auftrags-Inhalt: *Order content:*	FCC and IC approval			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109		RSS-247 Issue 2 February 2017 RSS-Gen Issue 5 April 2018 ICES-003 Issue 6 January 2016	

Wareneingangsdatum: *Date of receipt:*	15.01.2020
Prüfmuster-Nr.: *Test sample No.:*	A001046222-001-002
Prüfzeitraum: *Testing period:*	15.01.2020 - 08.04.2020
Ort der Prüfung: *Place of testing:*	TÜV Rheinland (Shenzhen) Co., Ltd.
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.
Prüfergebnis*: *Test result*:*	Pass

Please refer to photo documents

geprüft von / *tested by:*

Datum *Date*	Name/Stellung *Name/Position*	Unterschrift *Signature*
02.06.2020	Ryan Yang / Assistant Project Manager	

kontrolliert von / *reviewed by:*

Datum *Date*	Name/Stellung *Name/Position*	Unterschrift *Signature*
02.06.2020	Winnie Hou / Technical Certifier	

Sonstiges / *Other:*

FCC ID: VLJ-EASE34BU

IC: 4522A-EASE34BU HVIN: EASE34BU

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged:*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhalt
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
Legend:	1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor
	P(ass) = passed a.m. test specifications(s)		F(ail) = failed a.m. test specifications(s)	N/A = not applicable	N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.

Test Summary

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER
RESULT: Pass

5.1.3 99% BANDWIDTH
RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH
RESULT: Pass

5.1.5 RADIATED SPURIOUS EMISSION
RESULT: Pass

5.1.6 20DB BANDWIDTH
RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION
RESULT: Pass

5.1.8 NUMBER OF HOPPING FREQUENCY
RESULT: Pass

5.1.9 TIME OF OCCUPANCY
RESULT: Pass

5.1.10 CONDUCTED EMISSION ON AC MAINS
RESULT: Pass

5.1.11 RADIATED EMISSION
RESULT: Pass

Contents

1 GENERAL REMARKS 4
1.1 COMPLEMENTARY MATERIALS 4
2 TEST SITES 5
2.1 TEST FACILITIES 5
2.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS 5
2.3 TRACEABILITY 6
2.4 CALIBRATION 6
2.5 MEASUREMENT UNCERTAINTY 7
2.6 LOCATION OF ORIGINAL DATA 7
2.7 STATUS OF FACILITY USED FOR TESTING 7
3 GENERAL PRODUCT INFORMATION 8
3.1 PRODUCT FUNCTION AND INTENDED USE 8
3.2 RATINGS AND SYSTEM DETAILS 8
3.3 INDEPENDENT OPERATION MODES 9
3.4 NOISE GENERATING AND NOISE SUPPRESSING PARTS 9
3.5 SUBMITTED DOCUMENTS 9
4 TEST SET-UP AND OPERATION MODES 10
4.1 PRINCIPLE OF CONFIGURATION SELECTION 10
4.2 TEST OPERATION AND TEST SOFTWARE 10
4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT 10
4.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE 10
4.5 TEST SETUP DIAGRAM 11
5 TEST RESULTS 13
5.1 TRANSMITTER REQUIREMENT & TEST SUITES 13
5.1.1 Antenna Requirement 13
5.1.2 Maximum Peak Conducted Output Power 14
5.1.3 99% Bandwidth 15
5.1.4 Conducted Spurious Emissions Measured in 100 kHz Bandwidth 16
5.1.5 Radiated Spurious Emission 17
5.1.6 20dB Bandwidth 18
5.1.7 Carrier Frequency Separation 19
5.1.8 Number of Hopping Frequency 20
5.1.9 Time of Occupancy 21
5.1.10 Conducted Emission on AC Mains 22
5.1.11 Radiated Emission 23
6 PHOTOGRAPHS OF THE TEST SET-UP 24
7 LIST OF TABLES 24

1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of 2.4GHz FHSS

Appendix C: Test Results of Part 15B and ICES 003

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.
362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China

FCC Accreditation Designation No.: CN1260
ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.

Radio Spectrum Testing				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Wireless Connectivity Tester	R&S	CMW270	101375	20.08.2020
Signal Analyzer	R&S	FSV 40	101441	20.08.2020
Vector Signal Generator	R&S	SMBV100A	263301	21.08.2020
Signal Generator	R&S	SMB100A	115186	21.08.2020
OSP	R&S	OSP 150	101017	20.12.2019
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V10.40.10)	N/A	N/A
Power Meter	R&S	NRP2	107105	20.12.2019
Wideband Power Sensor	R&S	NRP-Z81	105350	20.12.2019
Spurious Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Signal Generator	R&S	SMB100A	180840	20.08.2020
Wideband Radio Communication Tester	R&S	CMW500	165339	20.08.2020
Signal Analyzer	R&S	FSV 40	101440	20.08.2020
System Controller Interface	R&S	SCI-100	S10010036	N/A
Filterbank	R&S	CDMA	100751	21.08.2020
Filterbank	R&S	GSM	100811	21.08.2020
OSP	R&S	OSP 120	102041	N/A

OSP	R&S	OSP 150	101385	N/A
Pre-amplifier	R&S	SCU08F1	08320030	20.08.2020
Amplifier	R&S	SCU-18F	180079	20.08.2020
Amplifier	R&S	SCU40A	100450	20.08.2020
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	192	02.09.2020
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218719	02.09.2020
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18312	02.09.2020
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19066	02.09.2020
Conducted Emission on AC Mains				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
EMI Test Receiver	R&S	ESR3	102428	19.08.2020
Artificial Mains Network	R&S	ENV216	102333	19.08.2020
Radiated Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
EMI Test Receiver	R&S	ESR7	102022	19.08.2020
Bilog Antenna	TESEQ	CBL6112D	51321	29.08.2020

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty
Radio Frequency	±1 x 10-7
RF Power (conducted)	±2.5 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	±6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	±6 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB
Radiated Emission (3m SAC), 30MHz to 1000MHz	± 4.52 dB
Radiated Emission (3m SAC), above 1000MHz	± 4.37 dB
Temperature	±1 °C
Humidity	±5 %
Voltage (DC)	±1 %
Voltage (AC, <10kHz)	±2 %

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd.. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a baby unit (camera) of one of the 4.3" Video Baby Monitor, which supports 2.4GHz FHSS wireless technology.

According to the declaration of the applicant, the electrical circuit design, PCB layout and components used are identical for all models, only the model number is different.

The baby unit is supplied by external adapters, see below table for details:

Test EUT (Model No.)	Baby Unit		Supplier
	Supported	Tested	
Adapter #1 *(YWK-AD050060-U)*	☒	☒	YWK
Adapter #2 *(BQ05A-0500600-U)*	☒	☒	BECKY

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	4.3" Video Baby Monitor (Baby Unit)
Type Designation	EASE34BU, MBP44ABU, MBP482ANXLBU, MBP483XLBU
Trade Mark	motorola
FCC ID	VLJ-EASE34BU
IC	4522A-EASE34BU
HVIN	EASE34BU
Operating Voltage	DC 5.0V@600mA input via AC/DC adapter
Testing Voltage	AC 120V@60Hz
AC/DC Adapter #1	Model: YWK-AD050060-U (YWK) Input: AC 100-240V~50/60Hz, 300mA Output: DC 5.0V@600mA
AC/DC Adapter #2	Model: BQ05A-0500600-U (BECKY) Input: AC 100-240V~50/60Hz, 300mA Output: DC 5.0V@600mA

Technical Specification of 2.4GHz FHSS	
Operating Frequency	2402 - 2477 MHz
Type of Modulation	GFSK
Channel Number	22 channels
Channel Separation	2 MHz, 5 MHz
Antenna Type	Integral antenna
Antenna Gain	0 dBi

Table 3: RF Channel and Frequency of 2.4GHz FHSS

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
01	**2402**	07	2420	13	2450	19	2471
02	2404	08	2425	14	2455	20	2473
03	2406	09	2430	15	2460	21	2475
04	2408	10	2435	16	2465	**22**	**2477**
05	2410	**11**	**2440**	17	2467	/	/
06	2415	12	2445	18	2469	/	/

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2477 MHz for 2.4GHz FHSS.

3.3 Independent Operation Modes

The basic operation modes are:

A. On, 2.4GHz FHSS wireless transmitting mode
    1. Low channel
    2. Middle channel
    3. High channel
B. On, Transmitting on hopping channel
C. On, Normal operation with 2.4GHz FHSS mode
D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- FCC/IC Label and Location Info
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014.

According to clause 3.1, all tests were performed on model EASE34BU in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T480	PF-16A6N8	N/A
4.3" Video Baby Monitor (Parent Unit)	King Chuang	EASE34PU	N/A	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

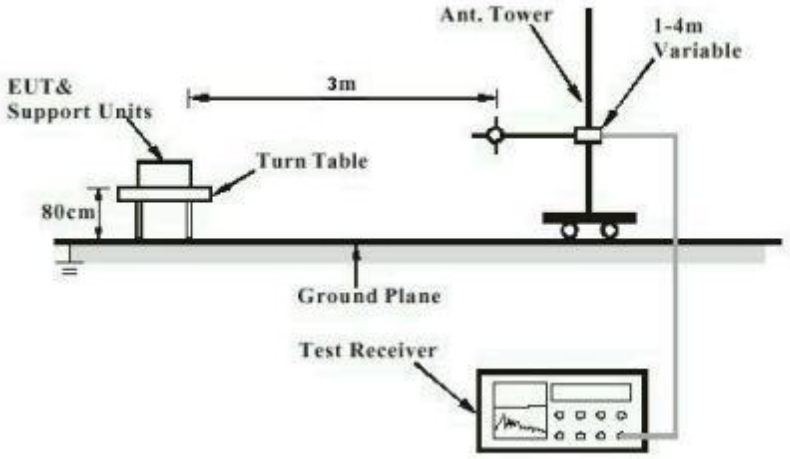


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

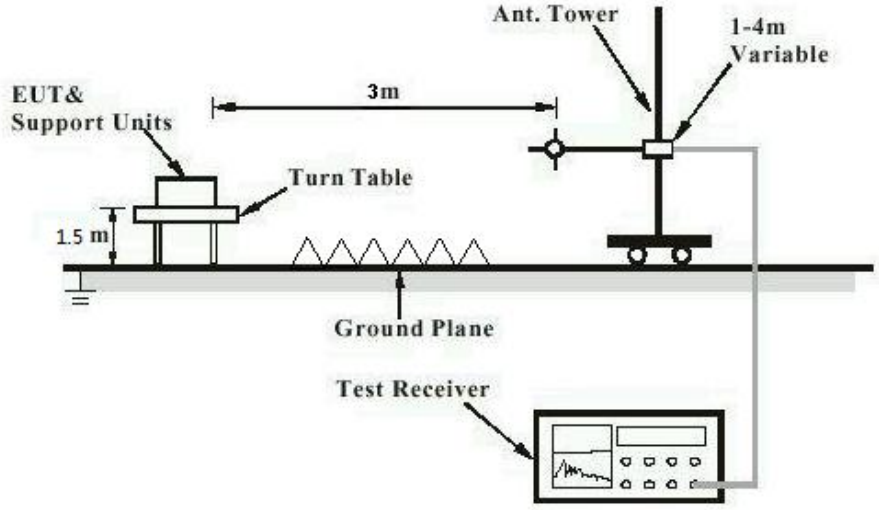


Diagram of Measurement Configuration for Mains Conduction Measurement

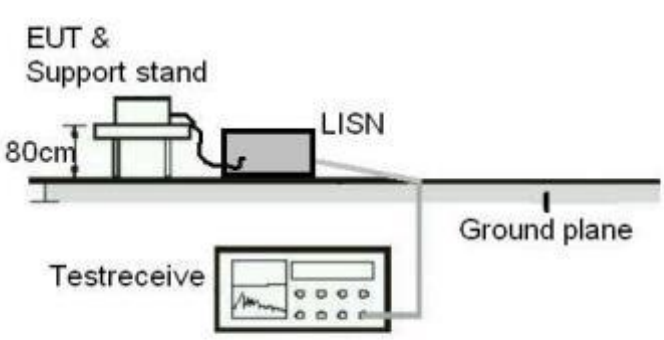
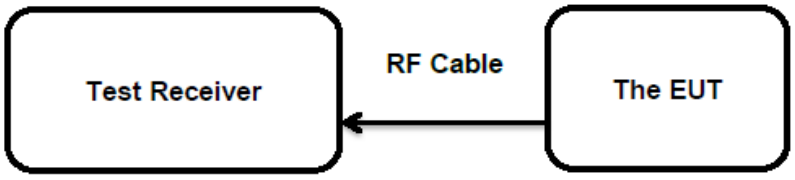


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification
Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(b)(1)
		RSS-247 Clause 5.4(b)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 0.125 Watts
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	07.03.2020
Input voltage	:	AC 120V@60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 5: Test Result of Maximum Peak Conducted Output Power, 2.4GHz FHSS

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
FHSS	Low CH	19.56	0.0904	< 0.125
	Middle CH	18.91	0.0778	
	High CH	17.66	0.0583	
Maximum Measured Value		19.56	0.0904	

Note:
1) The cable loss is taken into account in results.
2) Antenna gain(G) of FHSS: 0 dBi,
e.i.r.p. = $P_{(Peak\ power)}$ + G, which is far below the 4 W

5.1.3 99% Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	RSS-Gen Clause 6.6
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	07.03.2020
Input voltage	:	AC 120V@60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 6: Test Result of 99% Bandwidth, 2.4GHz FHSS

Test Mode	Test Channel (MHz)	99% Bandwidth (MHz)	Limit
FHSS	Low CH	2.01	/
	Middle CH	2.07	
	High CH	2.37	
Maximum Measured Value		2.37	

For the measurement records, refer to the appendix B.

5.1.4 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	:	ANSI C63.10: 2013
Limits	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	07.03.2020
Input voltage	:	AC 120V@60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

5.1.5 Radiated Spurious Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	:	ANSI C63.10: 2013
Limits	:	FCC Part 15.209(a) RSS-Gen Table 5&6
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	Refer to test result
Input voltage	:	AC 120V@60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	22 ℃
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa

Remark:
Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

5.1.6 20dB Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
		RSS-247 Clause 5.1(a)
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	07.03.2020
Input voltage	:	AC 120V@60Hz
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 7: Test Result of 20dB Bandwidth, 2.4GHz FHSS

Test Mode	Test Channel (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
FHSS	Low CH	2420.00	1613.33	/
	Middle CH	2460.00	1640.00	
	High CH	2800.00	1866.67	
Maximum Measured Value		2800.00	1866.67	

For the measurement records, refer to the appendix B.

5.1.7 Carrier Frequency Separation

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1) RSS-247 Clause 5.1(b)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	07.03.2020
Input voltage	:	AC 120V@60Hz
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 8: Test Result of Carrier Frequency Separation, 2.4GHz FHSS

Test Mode	Test Channel	Test Channel (MHz)	Measured Channel Separation (KHz)	Limit (kHz)
FHSS	Low Channel	2402.00	1930.69	≥ 25kHz or 2/3 of 20dB bandwidth
	Adjacency Channel	2404.00		
	Middle Channel	2440.00	5049.50	
	Adjacency Channel	2435.00		
	High Channel	2477.00	2079.21	
	Adjacency Channel	2475.00		

Note: The limit is maximum 2/3 of the 20 dB bandwidth: 1866.67 KHz.

For the measurement records, refer to the appendix B.

5.1.8 Number of Hopping Frequency

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	07.03.2020
Input voltage	:	AC 120V@60Hz
Operation mode	:	B
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 9: Test Result of Number of Hopping Frequency, 2.4GHz FHSS

Test Mode	Frequency Range	Measured Quantity of Hopping Channel	Limit
FHSS	2402 - 2477 MHz	22	≥15

For the measurement records, refer to the appendix B.

5.1.9 Time of Occupancy

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 0.4s
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	07.03.2020
Input voltage	:	AC 120V@60Hz
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Note:
Dwell time = Pulse width x Number of channels in Period
Period = 0.4 (seconds/ channel) x 22 (channel) = 8.8 seconds

For the measurement records, refer to the appendix B.

5.1.10 Conducted Emission on AC Mains

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen Clause 8.8 & ICES-003
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen Table 3 & ICES-003 Table 2
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	02.04.2020
Input voltage	:	AC 120V@60Hz
Operation mode	:	B, C
Earthing	:	Not connected
Ambient temperature	:	24 ℃
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B & C.

5.1.11 Radiated Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.109(a) ICES-003
Basic standard	:	ANSI C63.4: 2014
Frequency range	:	30MHz to 5th harmonic of the highest frequency
Classification	:	Class B
Limits	:	FCC Part 15.109(a) ICES-003 Table 5 & Table 7
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	Refer to test result
Input voltage	:	AC 120V@60Hz
Operation mode	:	C
Earthing	:	Not connected
Ambient temperature	:	24 ℃
Relative humidity	:	53 %
Atmospheric pressure	:	101 kPa

Note: The measurement results 6GHz to 5th harmonic were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 6GHz were reported.

For the measurement records, refer to the appendix D.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

7 List of Tables

Table 1: List of Test and Measurement Equipment 5
Table 2: Technical Specification of EUT 8
Table 3: RF Channel and Frequency of 2.4GHz FHSS 9
Table 4: List of Accessories and Auxiliary Equipment.....10
Table 5: Test Result of Maximum Peak Conducted Output Power, 2.4GHz FHSS 14
Table 6: Test Result of 99% Bandwidth, 2.4GHz FHSS.....15
Table 7: Test Result of 20dB Bandwidth, 2.4GHz FHSS 18
Table 8: Test Result of Carrier Frequency Separation, 2.4GHz FHSS 19
Table 9: Test Result of Number of Hopping Frequency, 2.4GHz FHSS 20

Appendix B: Test Results of 2.4GHz FHSS

APPENDIX B: TEST RESULTS OF 2.4GHZ FHSS 1

APPENDIX B.1: TEST RESULTS OF 99% BANDWIDTH 2
Low Channel 2
Middle Channel 3
High Channel 4
APPENDIX B.2: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH 5
Low Channel 5
Middle Channel 5
High Channel 6
Band Edge, Low Channel 7
Band Edge, High Channel 7
Band Edge, Hopping Mode, Low Channel 8
Band Edge, Hopping Mode, High Channle 8
APPENDIX B.3: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS 9
30MHz - 1GHz (Worst case) 9
1GHz - 18GHz 13
APPENDIX B.4: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS 19
Low channel 19
High channel 21
APPENDIX B.5: TEST RESULTS OF 20DB BANDWIDTH 23
Low Channel 23
Middle Channel 24
High Channel 25
APPENDIX B.6: TEST RESULTS OF CARRIER FREQUENCY SEPARATION 26
Low Channel 26
Middle Channel 27
High Channel 28
APPENDIX B.7: TEST RESULTS OF NUMBER OF HOPPING FREQUENCY 29
All hopping channels 29
APPENDIX B.9: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS 31
FHSS Connecting mode with adapter #1(YWK) 31
FHSS Connecting mode with adapter #2(BECKY) 33

Appendix B.1: Test Results of 99% Bandwidth

Low Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2402 MHz; 18.000 dBm; 2 MHz; Test Mode)

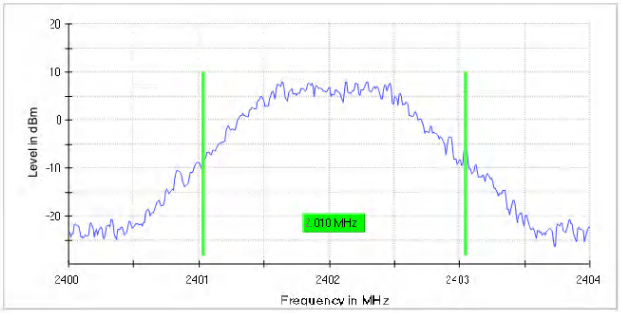
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	2.010000	---	---	2401.035000	2403.045000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.11 dB	0.30 dB

Middle Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2440 MHz; 18.000 dBm; 2 MHz; Test Mode)

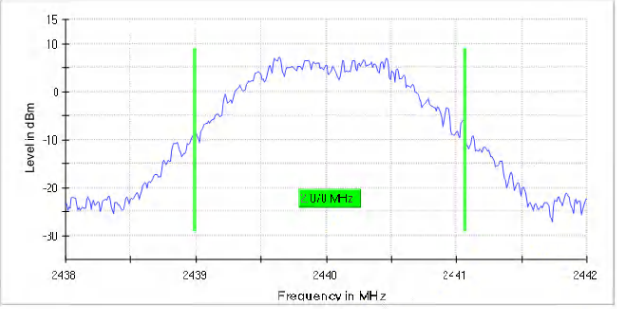
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	2.070000	---	---	2438.995000	2441.065000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.24 dB	0.30 dB

High Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2477 MHz; 18.000 dBm; 2 MHz; Test Mode)

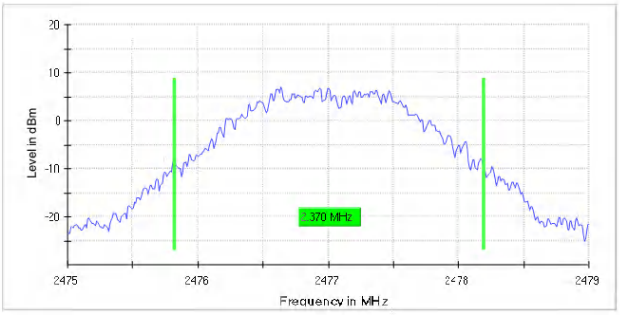
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2477.000000	2.370000	---	---	2475.825000	2478.195000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2477.000000	PASS



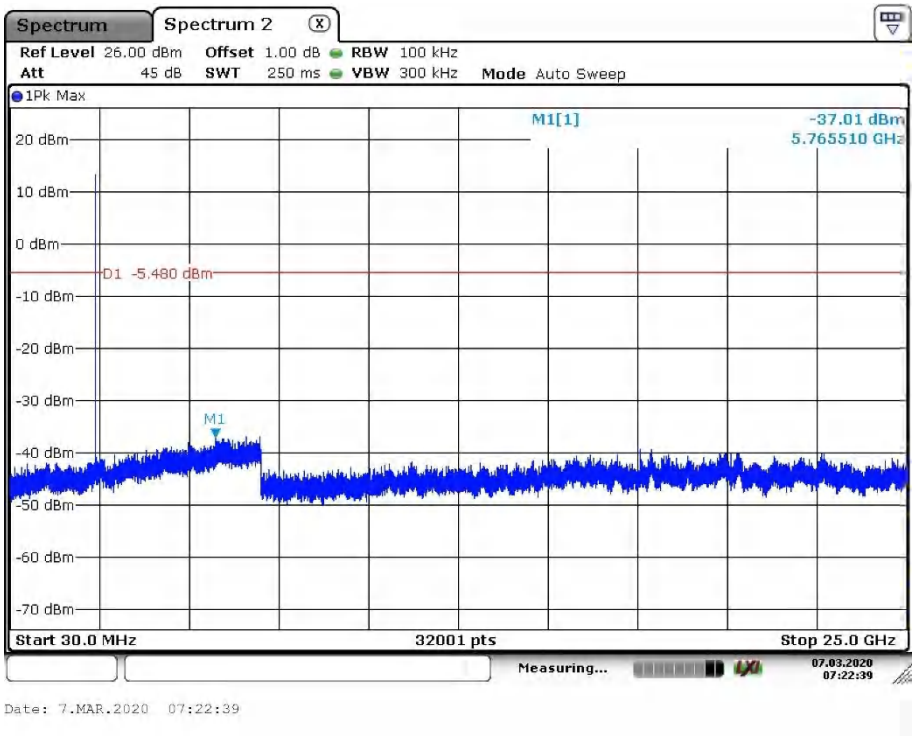
Bandwidth

Measurement

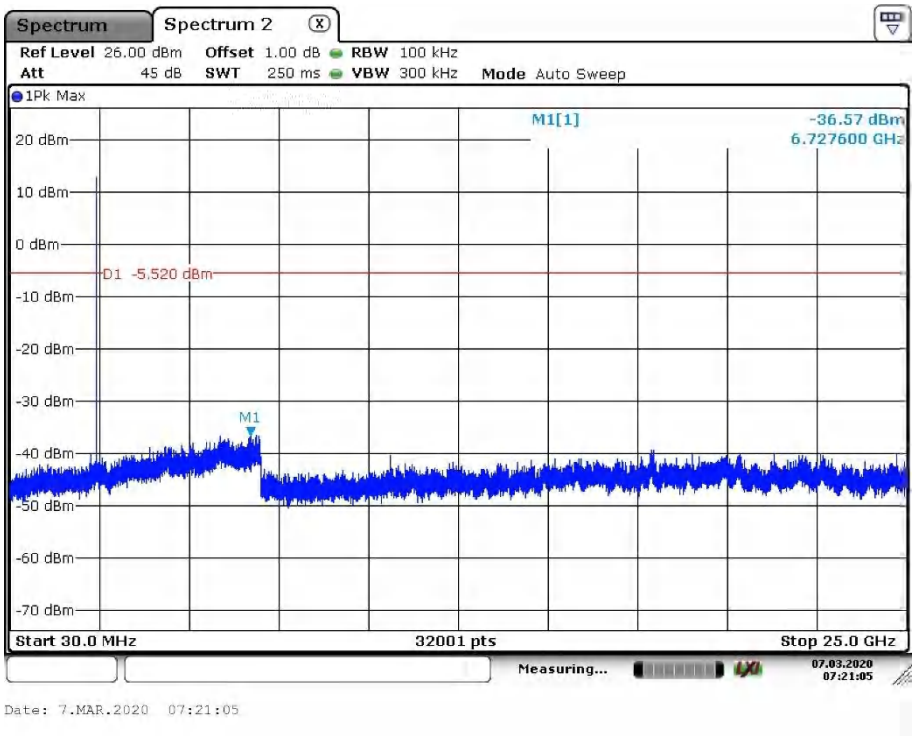
Setting	Instrument Value	Target Value
Start Frequency	2.47500 GHz	2.47500 GHz
Stop Frequency	2.47900 GHz	2.47900 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.22 dB	0.30 dB

Appendix B.2: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

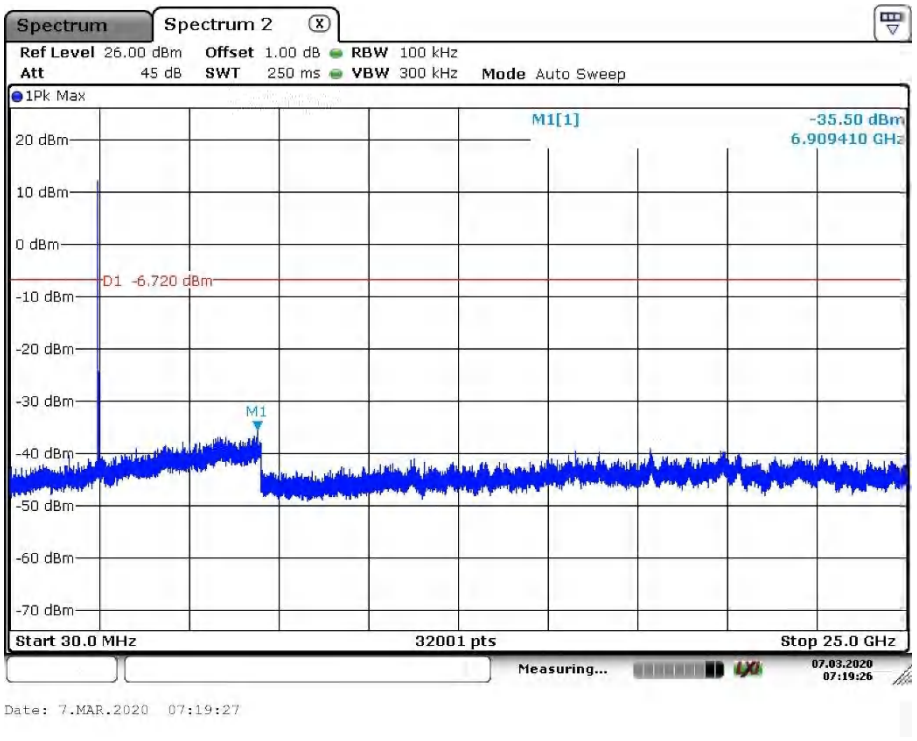
Low Channel



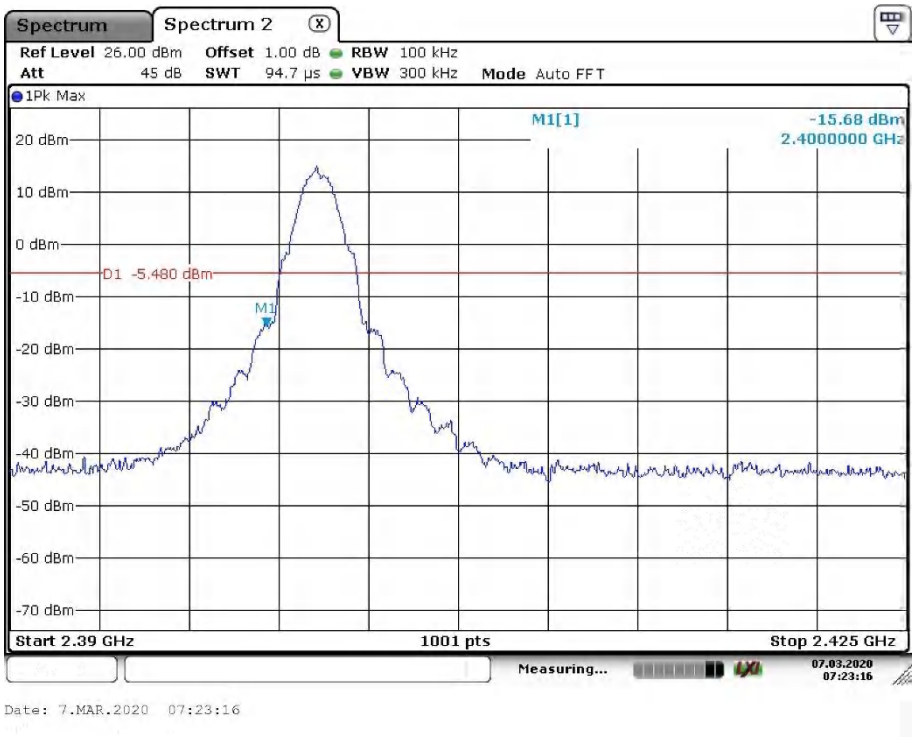
Middle Channel



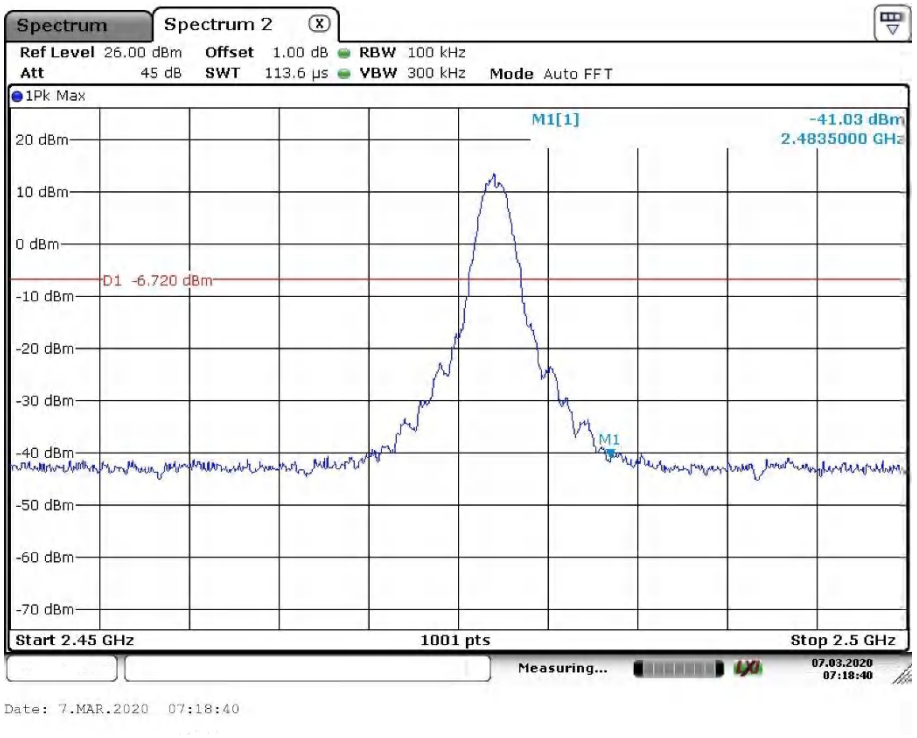
High Channel



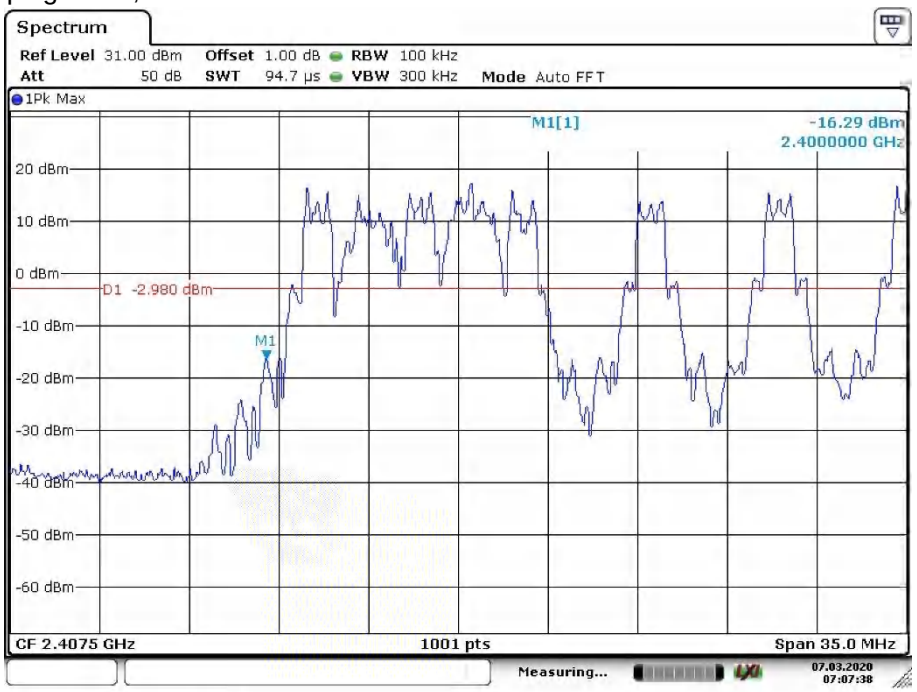
Band Edge, Low Channel



Band Edge, High Channel

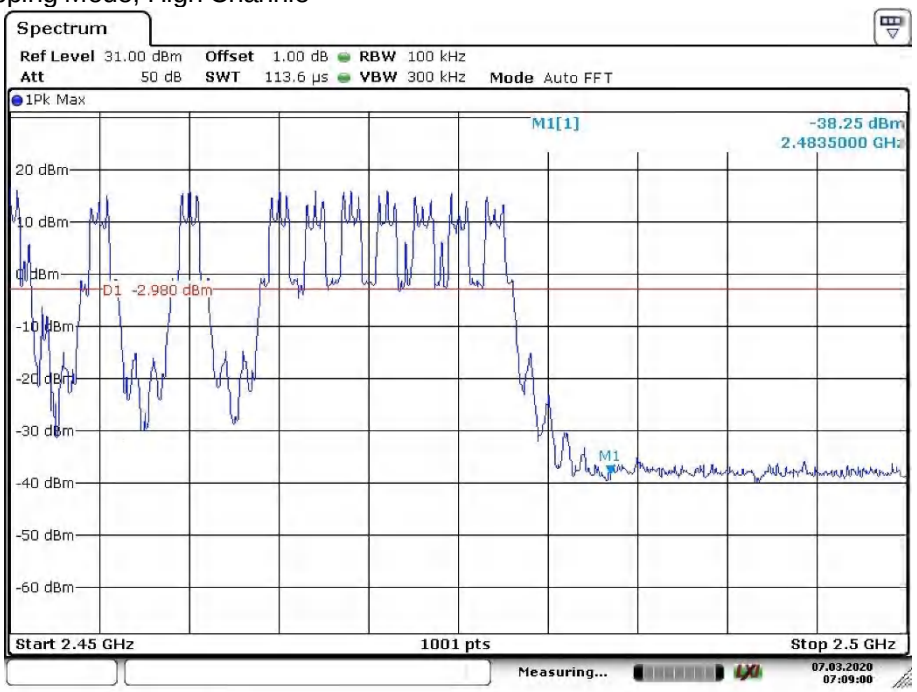


Band Edge, Hopping Mode, Low Channel



Date: 7.MAR.2020 07:07:38

Band Edge, Hopping Mode, High Channle



Date: 7.MAR.2020 07:09:01

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.3: Test Results of Radiated Spurious Emissions

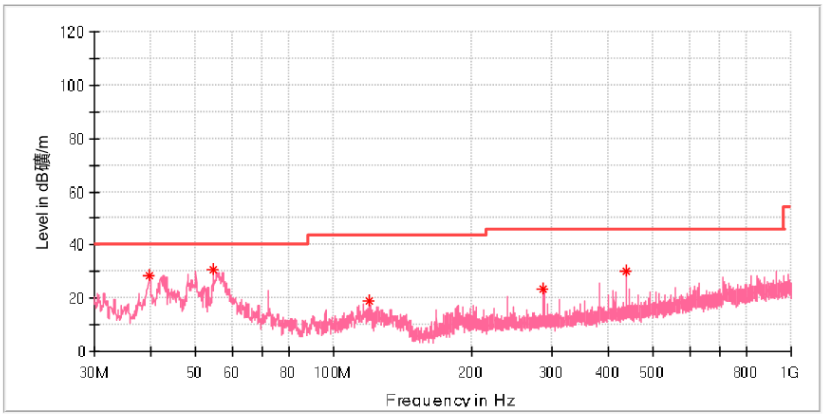
30MHz - 1GHz (Worst case)

Test 1 / 4

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_Low Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

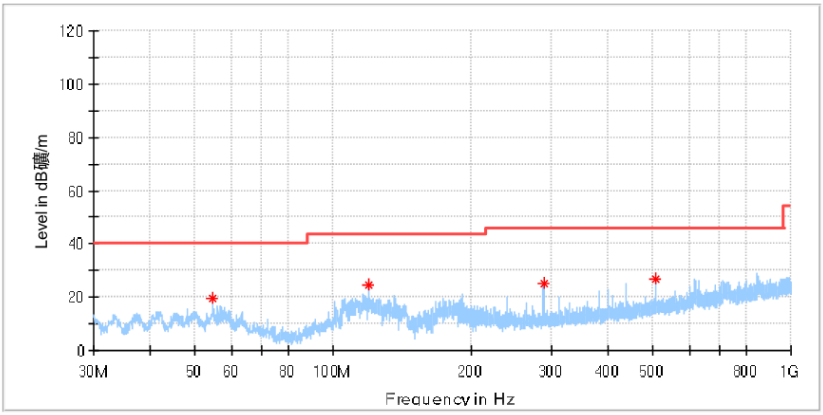
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.603000	28.65	---	40.00	11.35	100.0	V	0.0	-20.5
54.492500	30.73	---	40.00	9.27	100.0	V	70.0	-18.7
119.967500	19.20	---	43.50	24.30	100.0	V	307.0	-21.1
287.971500	23.38	---	46.00	22.62	100.0	V	152.0	-16.9
436.381500	30.19	---	46.00	15.81	100.0	V	6.0	-13.5

Test 2 / 4

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_Low Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

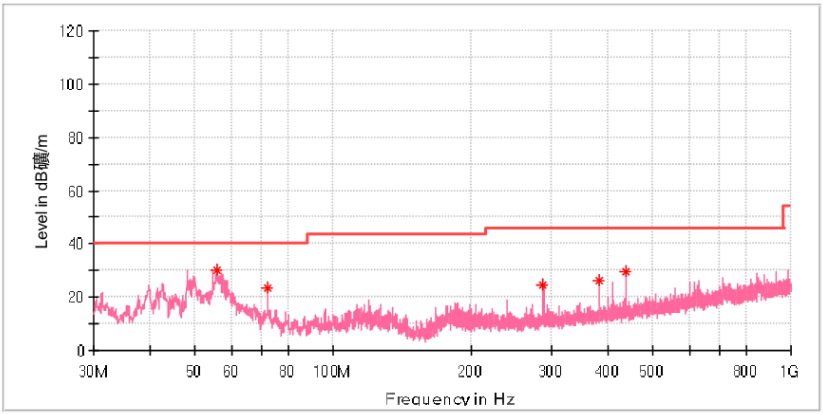
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
54.492500	19.74	---	40.00	20.26	100.0	H	59.0	-18.7
119.967500	24.73	---	43.50	18.77	100.0	H	84.0	-21.1
288.020000	24.89	---	46.00	21.11	100.0	H	141.0	-16.9
506.706500	26.52	---	46.00	19.48	100.0	H	231.0	-12.2

Test 3 / 4

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_High Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

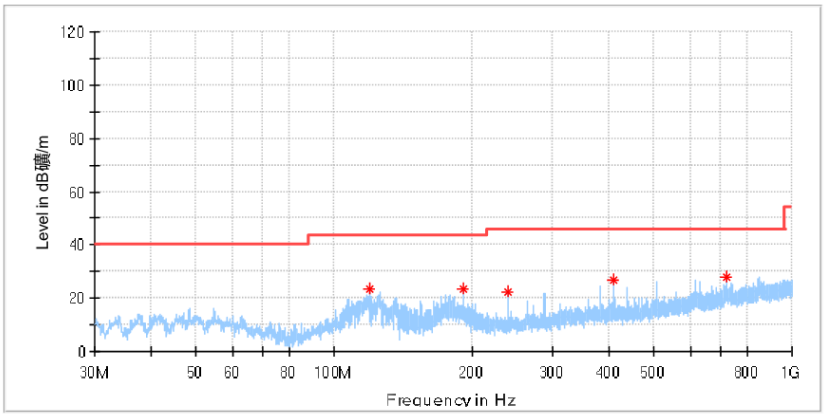
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.753500	30.23	---	40.00	9.77	100.0	V	0.0	-18.8
72.001000	23.53	---	40.00	16.47	100.0	V	95.0	-22.7
287.971500	24.36	---	46.00	21.64	100.0	V	208.0	-16.9
381.819000	26.46	---	46.00	19.54	100.0	V	103.0	-14.5
436.333000	29.54	---	46.00	16.46	100.0	V	62.0	-13.5

Test 4 / 4

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_High Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
119.967500	23.56	---	43.50	19.94	100.0	H	275.0	-21.1
191.990000	23.35	---	43.50	20.15	100.0	H	285.0	-19.7
240.005000	22.08	---	46.00	23.92	100.0	H	275.0	-18.0
409.076000	26.90	---	46.00	19.10	100.0	H	134.0	-13.9
720.009500	27.70	---	46.00	18.30	100.0	H	253.0	-8.1

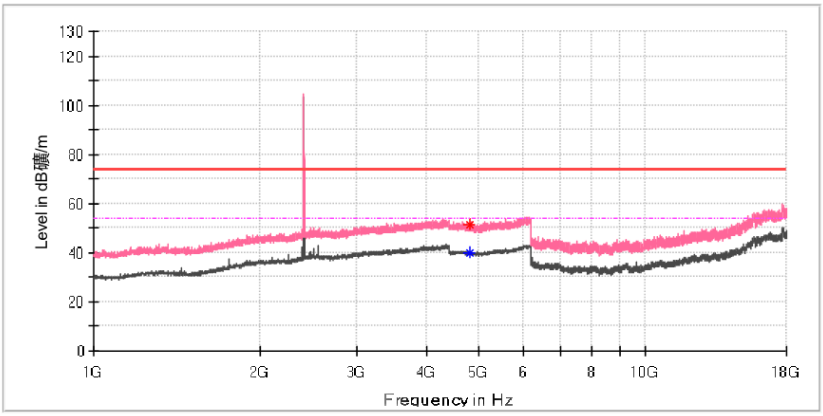
1GHz - 18GHz
Low Channel

Test 1 / 6

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_low Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

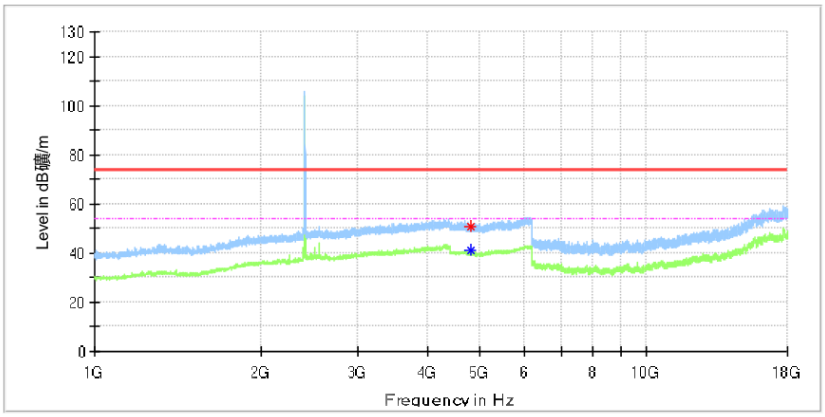
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	40.21	54.00	13.79	100.0	V	5.0	13.6
4805.500000	51.38	---	74.00	22.62	100.0	V	303.0	13.6

Test 2 / 6

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_low Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.500000	51.09	---	74.00	22.91	100.0	H	205.0	13.6
4803.500000	---	40.92	54.00	13.08	100.0	H	221.0	13.6

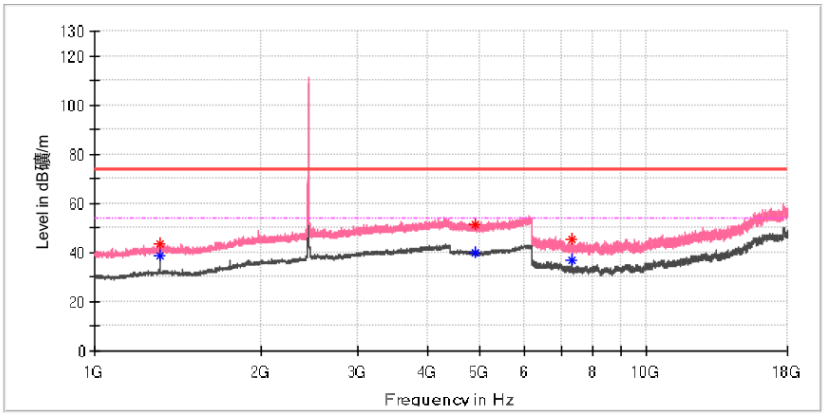
Middle Channel

Test 3 / 6

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_MID Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

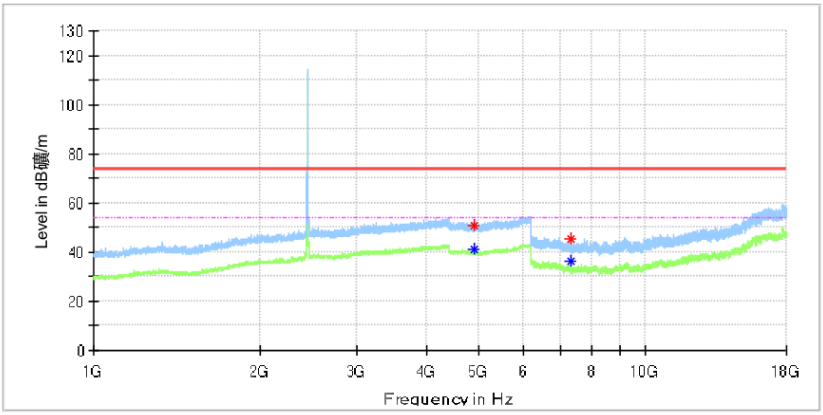
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1312.000000	---	38.55	54.00	15.45	100.0	V	114.0	2.0
1312.000000	43.58	---	74.00	30.42	100.0	V	114.0	2.0
4879.000000	51.52	---	74.00	22.48	100.0	V	306.0	13.4
4879.500000	---	39.78	54.00	14.22	100.0	V	0.0	13.4
7319.525000	---	37.06	54.00	16.94	100.0	V	4.0	8.2
7319.525000	45.54	---	74.00	28.46	100.0	V	4.0	8.2

Test 4 / 6

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_MID Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.500000	---	41.27	54.00	12.73	100.0	H	193.0	13.4
4880.500000	50.71	---	74.00	23.29	100.0	H	162.0	13.4
7318.541667	---	36.30	54.00	17.70	100.0	H	351.0	8.2
7318.541667	45.26	---	74.00	28.75	100.0	H	351.0	8.2

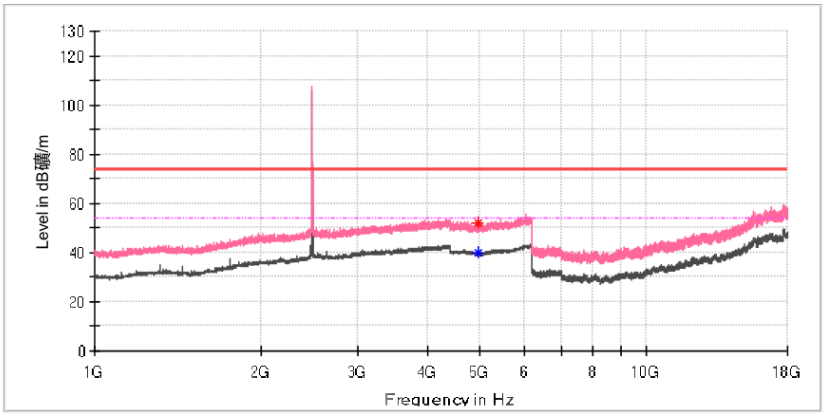
High Channel

Test 5 / 6

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_High Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

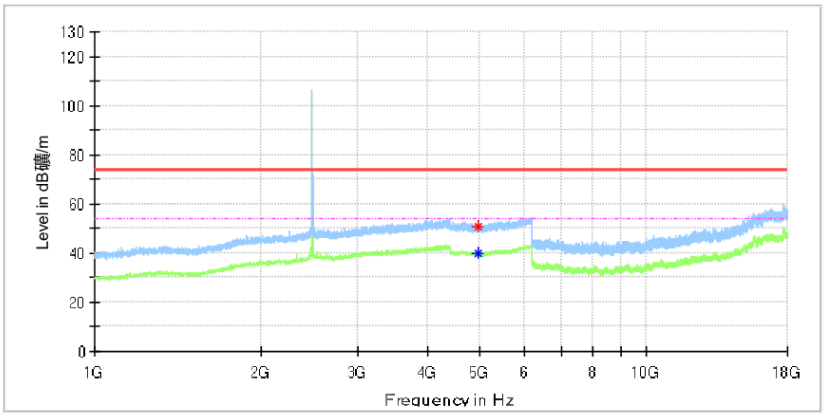
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4955.500000	---	39.95	54.00	14.05	100.0	V	92.0	13.2
4957.500000	52.19	---	74.00	21.81	100.0	V	295.0	13.2

Test 6 / 6

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_High Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4951.000000	---	40.16	54.00	13.84	100.0	H	144.0	13.2
4956.500000	51.03	---	74.00	22.97	100.0	H	152.0	13.2

2/3/2020 2:23:13 PM

Note: The highest waveform in the figure is FHSS Fundamental.

Appendix B.4: Test Results of Radiated Emissions in Restricted Bands

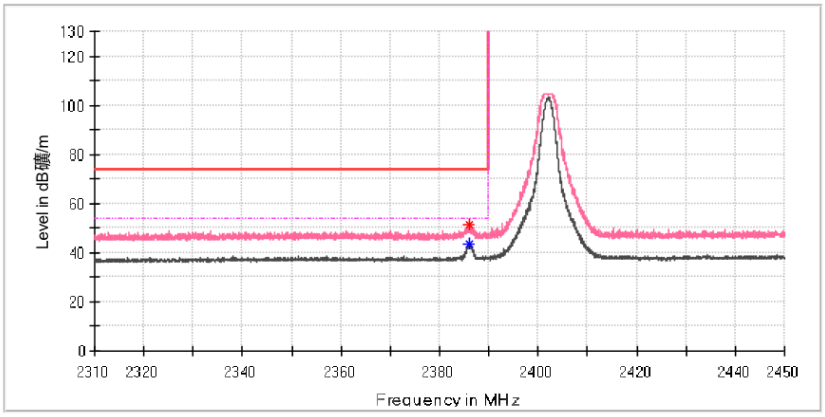
Low channel

Test 1 / 4

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_low Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

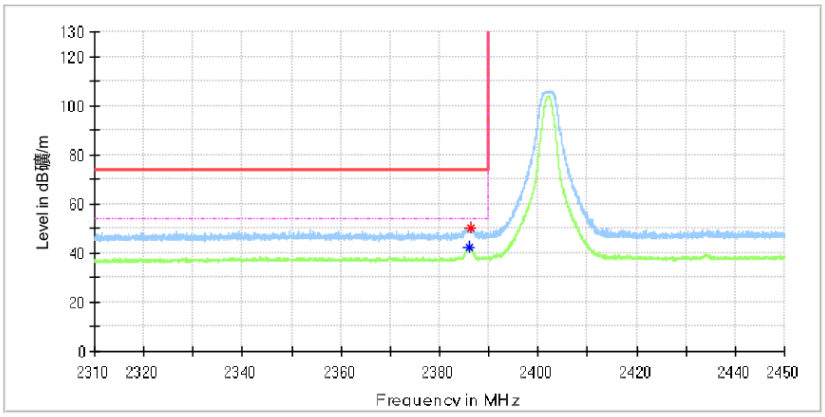
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.011765	51.17	---	74.00	22.83	100.0	V	105.0	7.0
2386.032353	---	43.48	54.00	10.52	100.0	V	35.0	7.0

Test 2 / 4

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_low Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.135294	---	42.49	54.00	11.51	100.0	H	358.0	7.0
2386.279412	50.45	---	74.00	23.55	100.0	H	10.0	7.0

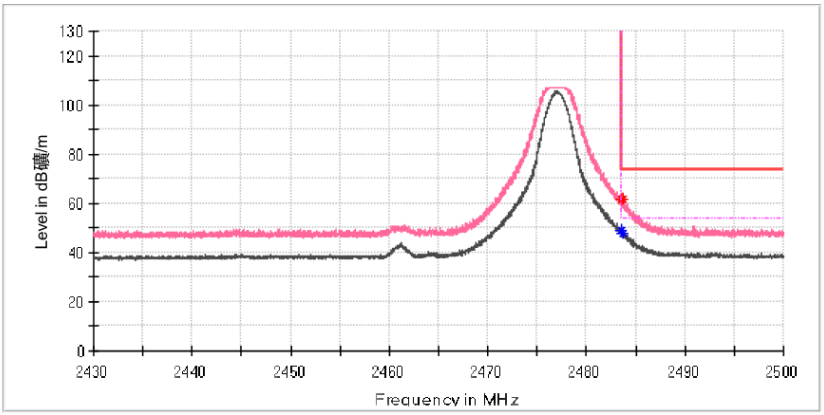
High channel

Test 3 / 4

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_High Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

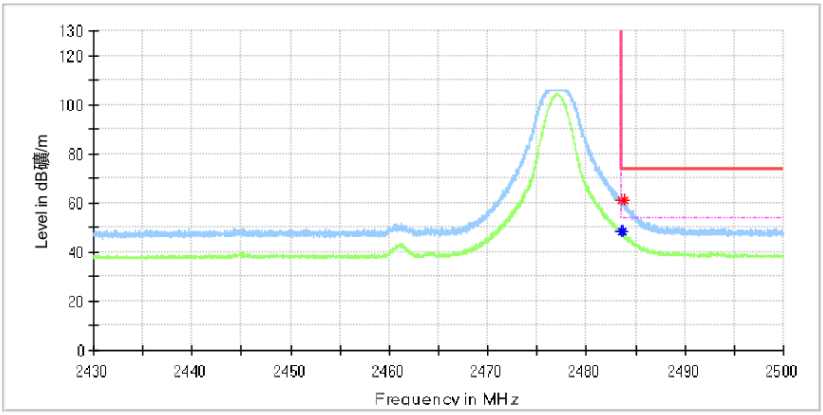
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	61.40	---	74.00	12.60	100.0	V	93.0	7.4
2483.539706	---	48.84	54.00	5.16	100.0	V	303.0	7.4
2483.745588	---	48.01	54.00	5.99	100.0	V	93.0	7.4
2483.745588	61.70	---	74.00	12.30	100.0	V	93.0	7.4

Test 4 / 4

Test Report

EUT Information

EUT Name:	Baby Monitor
Model:	Ease 34_BU
Test Mode:	TX_High Channel
Test Voltage::	AC120V/60Hz
Remark:	Temp 22 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.508824	60.99	---	74.00	13.01	100.0	H	22.0	7.4
2483.570588	---	48.39	54.00	5.61	100.0	H	330.0	7.4
2483.776471	---	48.11	54.00	5.89	100.0	H	0.0	7.4
2483.807353	61.18	---	74.00	12.82	100.0	H	330.0	7.4

Appendix B.5: Test Results of 20dB Bandwidth

Low Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Emission Bandwidth 20 dB (2402 MHz; 18.000 dBm; 2 MHz; Test Mode)

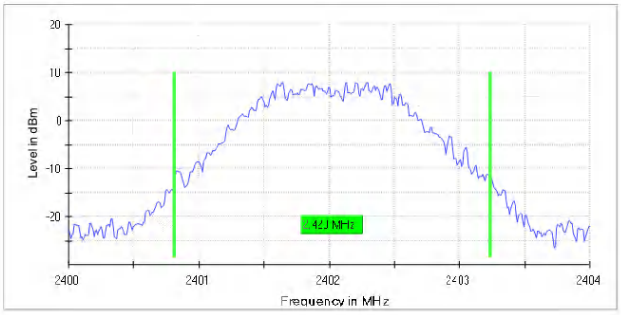
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	2.420000	---	---	2400.815000	2403.235000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	8.0	PASS



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.17 dB	0.50 dB

Middle Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Emission Bandwidth 20 dB (2440 MHz; 18.000 dBm; 2 MHz; Test Mode)

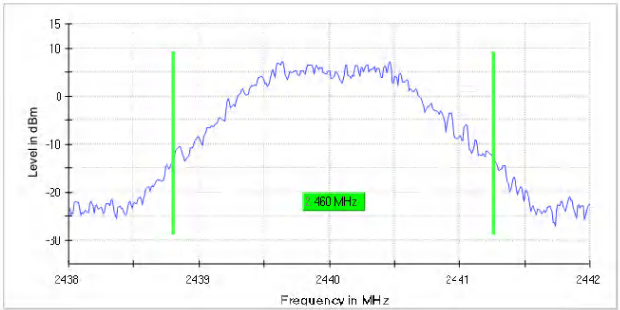
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	2.460000	---	---	2438.805000	2441.265000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	7.2	PASS



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.20 dB	0.50 dB

High Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Emission Bandwidth 20 dB (2477 MHz; 18.000 dBm; 2 MHz; Test Mode)

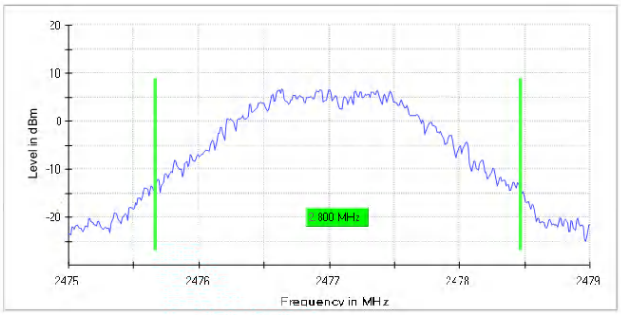
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2477.000000	2.800000	---	---	2475.665000	2478.465000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2477.000000	6.8	PASS



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47500 GHz	2.47500 GHz
Stop Frequency	2.47900 GHz	2.47900 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.21 dB	0.50 dB

Appendix B.6: Test Results of Carrier Frequency Separation

Low Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Carrier Frequency Separation (2402 MHz; 18.000 dBm; 2 MHz)

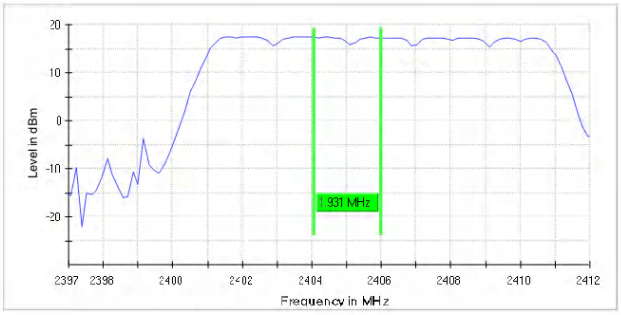
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	1.930694	1.613333	---	2404.054455	2405.985149

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS



CFS

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.41200 GHz	2.41200 GHz
Span	15.000 MHz	15.000 MHz
RBW	1.000 MHz	<= 1.500 MHz
VBW	1.000 MHz	>= 1.000 MHz
SweepPoints	101	~ 15
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	18 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.03 dB	0.50 dB

Middle Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Carrier Frequency Separation (2440 MHz; 18.000 dBm; 2 MHz)

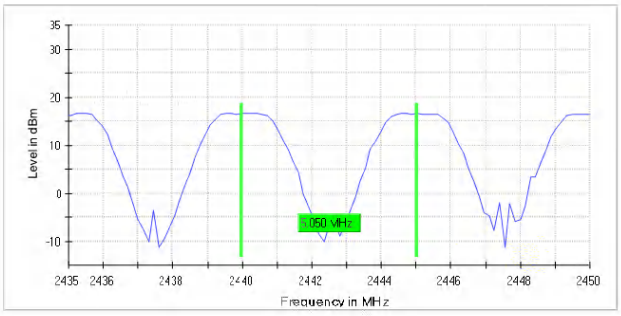
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2440.000000	5.049504	1.640000	---	2439.975248	2445.024752

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS



CFS

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43500 GHz	2.43500 GHz
Stop Frequency	2.45000 GHz	2.45000 GHz
Span	15.000 MHz	15.000 MHz
RBW	1.000 MHz	<= 1.500 MHz
VBW	1.000 MHz	>= 1.000 MHz
SweepPoints	101	~ 15
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	15 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.06 dB	0.50 dB

High Channel

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Carrier Frequency Separation (2477 MHz; 18.000 dBm; 2 MHz)

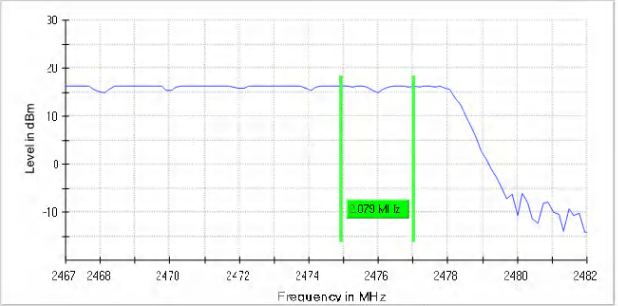
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2477.000000	2.079207	1.866667	---	2474.945545	2477.024752

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2477.000000	PASS



CFS

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.46700 GHz	2.46700 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	15.000 MHz	15.000 MHz
RBW	1.000 MHz	<= 1.500 MHz
VBW	1.000 MHz	>= 1.000 MHz
SweepPoints	101	~ 15
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	67 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

Appendix B.7: Test Results of Number of Hopping Frequency

All hopping channels

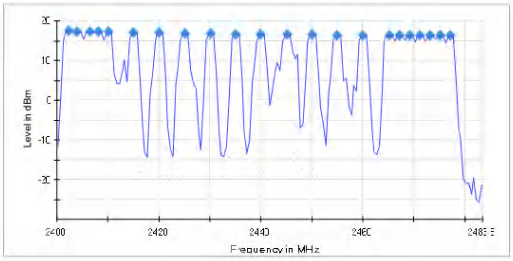
FCC Part 47 §15.247 2400-2483.5 MHz 2017

Hopping Frequencies (frequency independent; 18.000 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(g), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Channels

Channels	Limit Min	Limit Max	Result
22	15	---	PASS



Sequence

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	500.000 kHz	<= 598.000 kHz
VBW	500.000 kHz	>= 500.000 kHz
SweepPoints	167	~ 167
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	25 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.25 dB	0.50 dB

Appendix B.8: Test Results of Time of Occupancy

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Time of Channel Occupancy (2440 MHz; 18.000 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2440.000000	PASS	77	141.153	-2.0

Periode

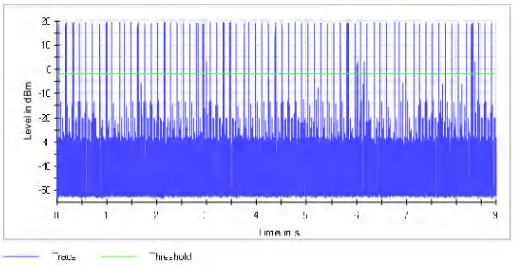
Min (ms)	Max (ms)	Mean (ms)
26.740	159.764	112.202

Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
0.00	2.324	400.000	0.000	1.808

DwellTime

Min (ms)	Max (ms)	Mean (ms)
0.00	6.021	2.125



Time of Channel Occupancy

Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.44000 GHz	2.44000 GHz
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	30001	~ 30001
Sweeptime	8.800 s	8.800 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

OSP

Setting	Instrument Value	Target Value
Measurement Time	8.800 s	8.800 s
Tracepoints	8800000	8800000
Time resolution	1.000 µs	1.000 µs
Detector	RMS	RMS

Appendix B.9: Test Results of Conducted Emission on AC Mains

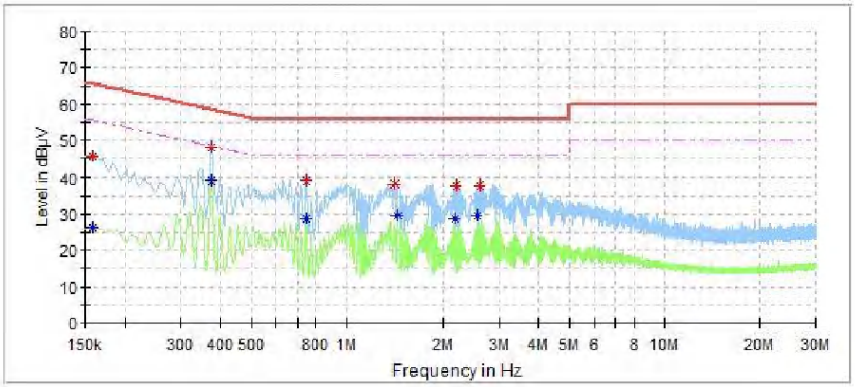
FHSS Connecting mode with adapter #1(YWK)

CE-BU-FCC Part 15-BQ05A-0500600-U-L 3 / 4

Test Report

EUT Information

EUT Name:	Video Baby Monitor(Baby Unit)
Model:	Ease 34BU
Order No.:	168150307 190/200
Test Mode:	2.4GHz FHSS connecting mode(for BU and PU)
Test Voltage:	AC 120V/60Hz
Test By:	Shower.Dai
Review By:	Gary Chen
Remark:	YWK-AD050060-U



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.158000	---	26.25	55.57	29.32	L1	9.6
0.158000	45.60	---	65.57	19.97	L1	9.6
0.374000	47.96	---	58.41	10.45	L1	9.7
0.374000	---	39.00	48.41	9.41	L1	9.7
0.748000	---	28.86	46.00	17.14	L1	9.7
0.748000	39.07	---	56.00	16.93	L1	9.7
1.408000	38.09	---	56.00	17.91	L1	9.7
1.440000	---	29.47	46.00	16.53	L1	9.7
2.184000	---	28.86	46.00	17.14	L1	9.7
2.212000	37.76	---	56.00	18.24	L1	9.7
2.560000	---	29.54	46.00	16.46	L1	9.8
2.620000	37.73	---	56.00	18.27	L1	9.8

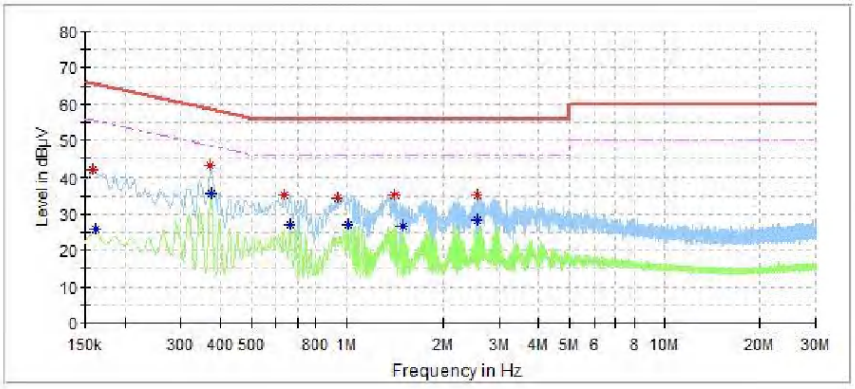
4/2/2020 3:59:48 PM

CE-BU-FCC Part 15-BQ05A-0500600-U-L 4 / 4

Test Report

EUT Information

EUT Name:	Video Baby Monitor(Baby Unit)
Model:	Ease 34BU
Order No.:	168150307 190/200
Test Mode:	2.4GHz FHSS connecting mode(for BU and PU)
Test Voltage:	AC 120V/60Hz
Test By:	Shower.Dai
Review By:	Gary Chen
Remark:	YWK-AD050060-U



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.158000	42.05	---	65.57	23.52	N	9.6
0.162000	---	25.66	55.36	29.70	N	9.6
0.370000	42.95	---	58.50	15.55	N	9.7
0.374000	---	35.83	48.41	12.58	N	9.7
0.640000	35.45	---	56.00	20.55	N	9.7
0.664000	---	27.12	46.00	18.88	N	9.7
0.944000	34.66	---	56.00	21.34	N	9.7
1.008000	---	27.21	46.00	18.79	N	9.7
1.412000	35.27	---	56.00	20.73	N	9.7
1.488000	---	26.61	46.00	19.39	N	9.7
2.576000	35.14	---	56.00	20.86	N	9.8
2.576000	---	28.47	46.00	17.53	N	9.8

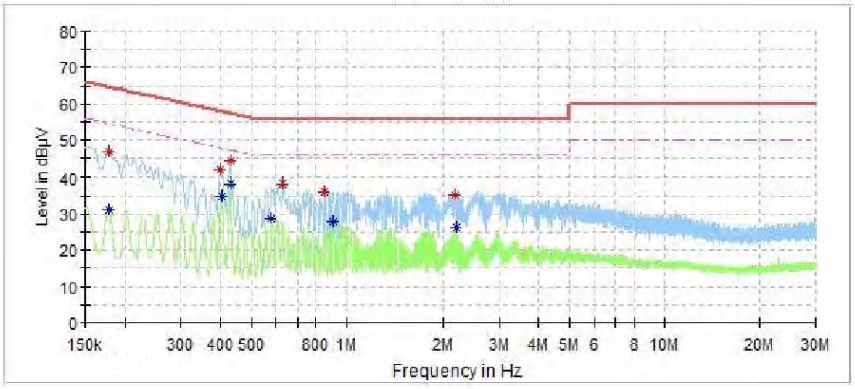
FHSS Connecting mode with adapter #2(BECKY)

CE-BU-FCC Part 15-BQ05A-0500600-U-L 1 / 4

Test Report

EUT Information

EUT Name:	Video Baby Monitor(Baby Unit)
Model:	Ease 34BU
Order No.:	168150307 190/200
Test Mode:	2.4GHz FHSS connecting mode(for BU and PU)
Test Voltage:	AC 120V/60Hz
Test By:	Shower.Dai
Review By:	Gary Chen
Remark:	BQ05A-0500600-U



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.178000	---	31.20	54.58	23.38	L1	9.6
0.178000	46.83	---	64.58	17.75	L1	9.6
0.402000	41.66	---	57.81	16.15	L1	9.7
0.406000	---	34.90	47.73	12.83	L1	9.7
0.430000	44.47	---	57.25	12.78	L1	9.7
0.430000	---	38.04	47.25	9.21	L1	9.7
0.580000	---	28.68	46.00	17.32	L1	9.7
0.632000	37.97	---	56.00	18.03	L1	9.7
0.856000	36.02	---	56.00	19.98	L1	9.7
0.908000	---	27.73	46.00	18.27	L1	9.7
2.172000	35.46	---	56.00	20.54	L1	9.7
2.196000	---	26.13	46.00	19.87	L1	9.7

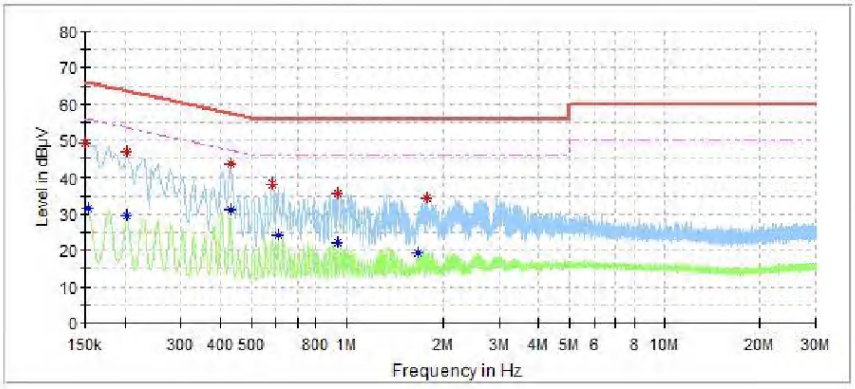
4/2/2020 3:59:48 PM

CE-BU-FCC Part 15-BQ05A-0500600-U-L 2 / 4

Test Report

EUT Information

EUT Name:	Video Baby Monitor(Baby Unit)
Model:	Ease 34BU
Order No.:	168150307 190/200
Test Mode:	2.4GHz FHSS connecting mode(for BU and PU)
Test Voltage:	AC 120V/60Hz
Test By:	Shower.Dai
Review By:	Gary Chen
Remark:	BQ05A-0500600-U



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	49.18	---	66.00	16.82	N	9.6
0.154000	---	31.47	55.78	24.31	N	9.6
0.202000	---	29.65	53.53	23.88	N	9.6
0.202000	46.62	---	63.53	16.91	N	9.6
0.430000	43.29	---	57.25	13.96	N	9.7
0.430000	---	31.03	47.25	16.22	N	9.7
0.584000	38.00	---	56.00	18.00	N	9.7
0.608000	---	24.21	46.00	21.79	N	9.7
0.936000	---	22.32	46.00	23.68	N	9.7
0.936000	35.56	---	56.00	20.44	N	9.7
1.672000	---	19.47	46.00	26.53	N	9.7
1.780000	34.26	---	56.00	21.74	N	9.7