

Shenzhen Asia Bright Industry Co., Ltd

# TEST REPORT

**SCOPE OF WORK**

FCC TESTING – e370

**REPORT NUMBER**

181030045SZN-004

**ISSUE DATE**

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**[REVISED DATE]**

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**Shenzhen Asia Bright Industry Co., Ltd****Application for Certification****FCC ID: 2ASVU-E370****WiFi Gateway PIR ON/OFF Switch****Model: e370****2.4GHz Transmitter****Report No.: 181030045SZN-004**

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-18]

**Prepared and Checked by:****Approved by:****Winkey Wang**  
**Senior Project Engineer**

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**Kidd Yang**  
**Technical Supervisor**  
**Date: 03 July 2019**

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**Intertek Testing Service Shenzhen Ltd. Longhua Branch**

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## MEASUREMENT/TECHNICAL REPORT

This report concerns (check one):                      Original Grant   X                        Class II Change       

Equipment Type: DXX - Part 15 Low Power Communication Device Transmitter

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes \_\_\_\_\_ No  X

If yes, defer until: \_\_\_\_\_  
date

Company Name agrees to notify the Commission by: \_\_\_\_\_  
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes \_\_\_\_\_ No  X

If no, assumed Part 15, Subpart C for intentional radiator – the new 47 CFR [10-1-188 Edition] provision.

Report prepared by:

## Winkey Wang

**Intertek Testing Services Shenzhen Ltd. Longhua Branch**

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**1.0 Summary of Test Result**

Applicant: Shenzhen Asia Bright Industry Co., Ltd

Applicant Address: Building 10, Asia Industrial Park, Gangtou, Bantian, Shenzhen, China

Model: e370

FCC ID: 2ASVU-E370

Test Specification	Reference	Results
Transmitter Radiated Emission Bandedge	15.249 &15.209 &15.205	Pass
Conducted Emission	15.207	Pass
20dB Bandwidth	15.215(c)	Pass

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

## 2.0 General Description

### 2.1 Product Description

The equipment under test (EUT) is a WiFi Gateway PIR ON/OFF Switch with 2.4G SRD function operated in 2.4G band. The EUT can be powered by AC 120V/60Hz. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Antenna Gain: 1.5dBi Max.

Modulation Type: GFSK

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

### 2.2 Related Submittal(s) Grants

This is an application for certification of a transceiver for the WiFi Gateway PIR ON/OFF Switch of 2.4G SRD function.

For the 2.4G WIFI function was tested and demonstrated in report 181030045SZN-003.

For other functions were reported in the SDOC report: 181030044SZN-001.

### 2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in Semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst-case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

### 2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen, P.R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: CN1188).

### 3.0 System Test Configuration

#### 3.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2013).

The EUT was powered by AC 120V/60Hz during the test, only the worst data was reported in this report.

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the centre of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Section 4.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on a turn table, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

#### 3.2 EUT Exercising Software

There was no special software to exercise the device.

#### 3.3 Special Accessories

No special accessories used.

#### 3.4 Equipment Modification

Any modifications installed previous to testing by Shenzhen Asia Bright Industry Co., Ltd will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd Longhua Branch.

**3.5 Measurement Uncertainty**

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

**3.6 Support Equipment List and Description**

Description	Manufacturer	Model No.	Note
LED Lamp	/	/	provided by Intertek
Lamp holder	/	/	provided by Intertek
Mobile Phone	SAMSUNG	S7	provided by Intertek
AC Input Line	/	/	provided by Intertek Length: 1m
AC Output Line	/	/	provided by Intertek Length: 0.5m



## 4.0 Emission Results

Data is included worst-case configuration (the configuration which resulted in the highest emission levels).

### 4.1 Radiated Test Results

A sample calculation, configuration photographs and data tables of the emissions are included.

#### 4.1.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

Where

- FS = Field Strength in dB $\mu$ V/m
- RA = Receiver Amplitude (including preamplifier) in dB $\mu$ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB
- PD = Pulse Desensitization in dB
- AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

Assume a receiver reading of 62.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$AV = -10 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

#### 4.1.2 Radiated Emission Configuration Photograph

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos. pdf.

#### 4.1.3 Radiated Emissions

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit. simultaneous transmission was considered during the test.

Worst Case Radiated Emission  
at  
43.095 MHz

Judgement: Passed by 8.9 dB

#### **TEST PERSONNEL:**

*Sign on file*

Winkey Wang, Senior Project Engineer  
*Typed/Printed Name*

03 June 2019  
*Date*

Applicant: Shenzhen Asia Bright Industry Co., Ltd

Date of Test: 03 June 2019

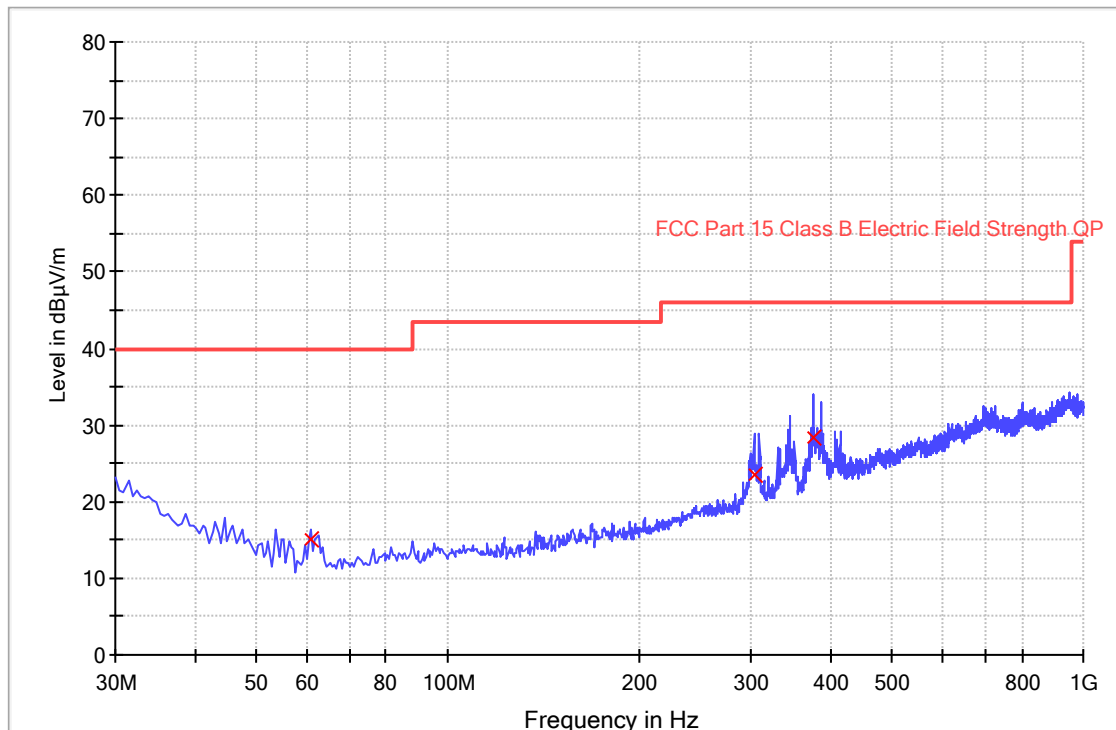
Model: e370

Worst Case Operating Mode:

Transmitting(2440MHz)

ANT Polarity: Horizontal

# FCC Part 15



Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
61.040000	15.0	1000.0	120.000	100	H	8.0	25.0	40.0
303.540000	23.4	1000.0	120.000	100	H	15.6	22.6	46.0
376.775000	28.3	1000.0	120.000	100	H	17.6	17.7	46.0

## Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Limit Line(dBμV/m) – Level (dBμV/m)

Applicant: Shenzhen Asia Bright Industry Co., Ltd

Date of Test: 03 June 2019

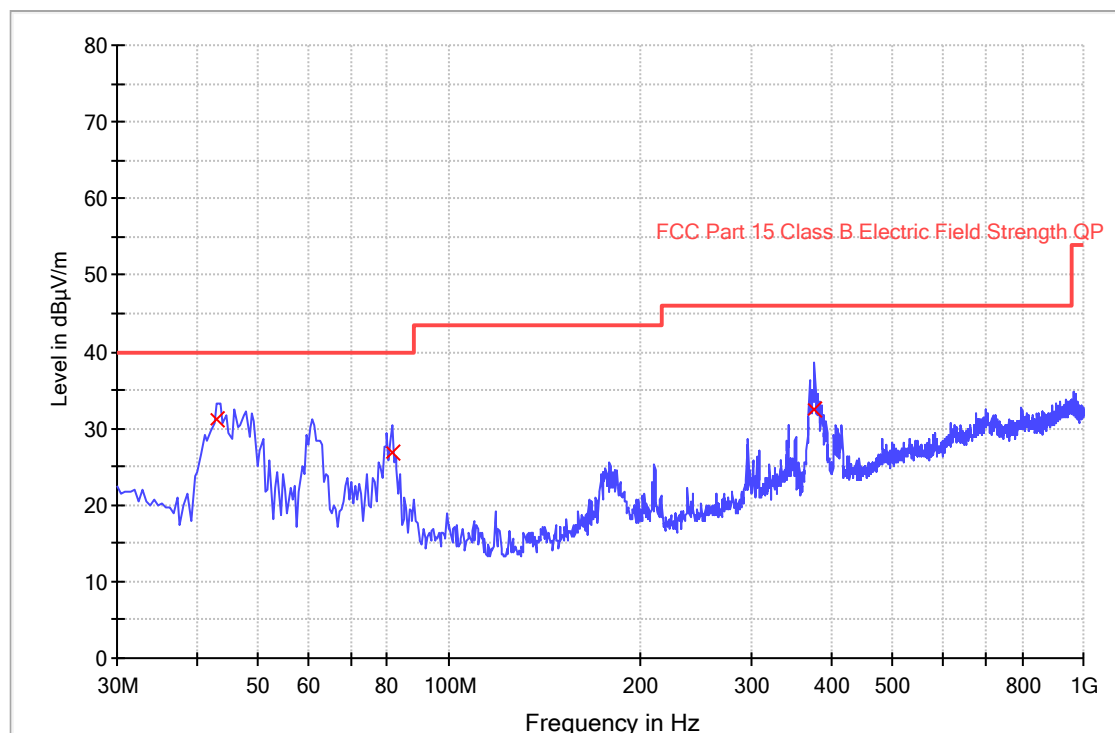
Model: e370

Worst Case Operating Mode:

Transmitting(2440MHz)

ANT Polarity: Vertical

## FCC Part 15



Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
43.095000	31.1	1000.0	120.000	100	V	11.5	8.9	40.0
81.410000	26.9	1000.0	120.000	100	V	8.8	13.1	40.0
377.260000	32.5	1000.0	120.000	100	V	17.6	13.5	46.0

### Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Limit Line(dBμV/m) – Level (dBμV/m)

#### 4.1.4 Transmitter Spurious Emissions (Radiated)

Worst Case Radiated Emission  
at  
2440.000 MHz

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos. pdf.

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 5.5 dB

**TEST PERSONNEL:**

*Sign on file*

Winkey Wang, Senior Project Engineer  
*Typed/Printed Name*

03 June 2019  
*Date*

Applicant: Shenzhen Asia Bright Industry Co., Ltd

Date of Test: 03 June 2019

Model: e370

Worst Case Operating Mode:

Transmitting

Table 1

## Radiated Emissions

(2440MHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2440.000	104.7	36.5	27.5	95.7	114.0	-18.3
Horizontal	4880.000	48.2	36.3	33.5	45.4	74.0	-28.6
Horizontal	7320.000	48.4	36.3	37.7	49.8	74.0	-24.2
Horizontal	9760.000	50.4	36.3	37.6	51.7	74.0	-22.3

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2440.000	104.7	36.5	27.5	7.2	88.5	94.0	-5.5
Horizontal	4880.000	48.2	36.3	33.5	7.2	38.2	54.0	-15.8
Horizontal	7320.000	48.4	36.3	37.7	7.2	42.6	54.0	-11.4
Horizontal	9760.000	50.4	36.3	37.6	7.2	44.5	54.0	-9.5

Notes: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna is used for the emission over 1000MHz.

#### 4.2 Conducted Emission Configuration Photograph

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: conducted photos.pdf.

##### 4.2.1 Conducted Emission

Worst Case Conducted Configuration  
at  
2.998MHz

Judgement: Passed by 11.8dB margin

#### **TEST PERSONNEL:**

*Sign on file*

Winkey Wang, Senior Project Engineer  
*Typed/Printed Name*

03 June 2019  
*Date*

Applicant: Shenzhen Asia Bright Industry Co., Ltd

Date of Test: 03 June 2019

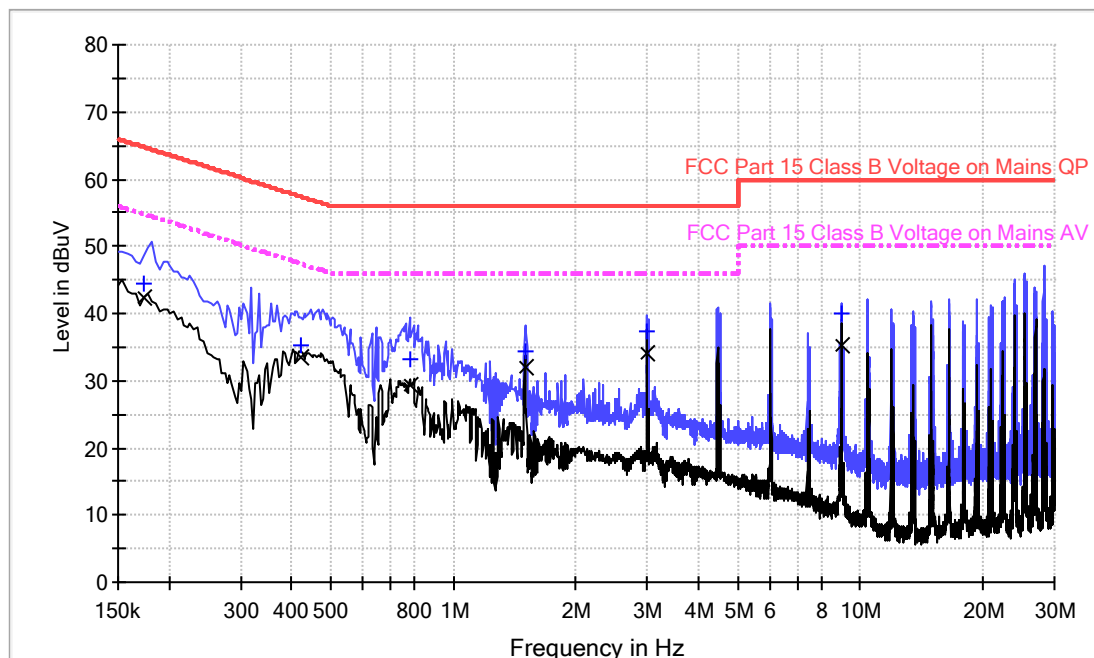
Model: e370

Worst Case Operating Mode: Transmitting(2440MHz)

Phase: Live

## Graphic / Data Table

### Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.174000	44.4	9.000	L1	9.6	20.4	64.8
0.422000	35.2	9.000	L1	9.4	22.2	57.4
0.782000	33.2	9.000	L1	9.4	22.8	56.0
1.498000	34.2	9.000	L1	9.4	21.8	56.0
2.998000	37.3	9.000	L1	9.4	18.7	56.0
8.986000	39.9	9.000	L1	9.5	20.1	60.0

### Limit and Margin AV

Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.174000	42.3	9.000	L1	9.6	12.5	54.8
0.422000	33.4	9.000	L1	9.4	14.0	47.4
0.782000	29.4	9.000	L1	9.4	16.6	46.0
1.498000	31.9	9.000	L1	9.4	14.1	46.0
2.998000	34.2	9.000	L1	9.4	11.8	46.0
8.986000	35.2	9.000	L1	9.5	14.8	50.0



Applicant: Shenzhen Asia Bright Industry Co., Ltd

Date of Test: 03 June 2019

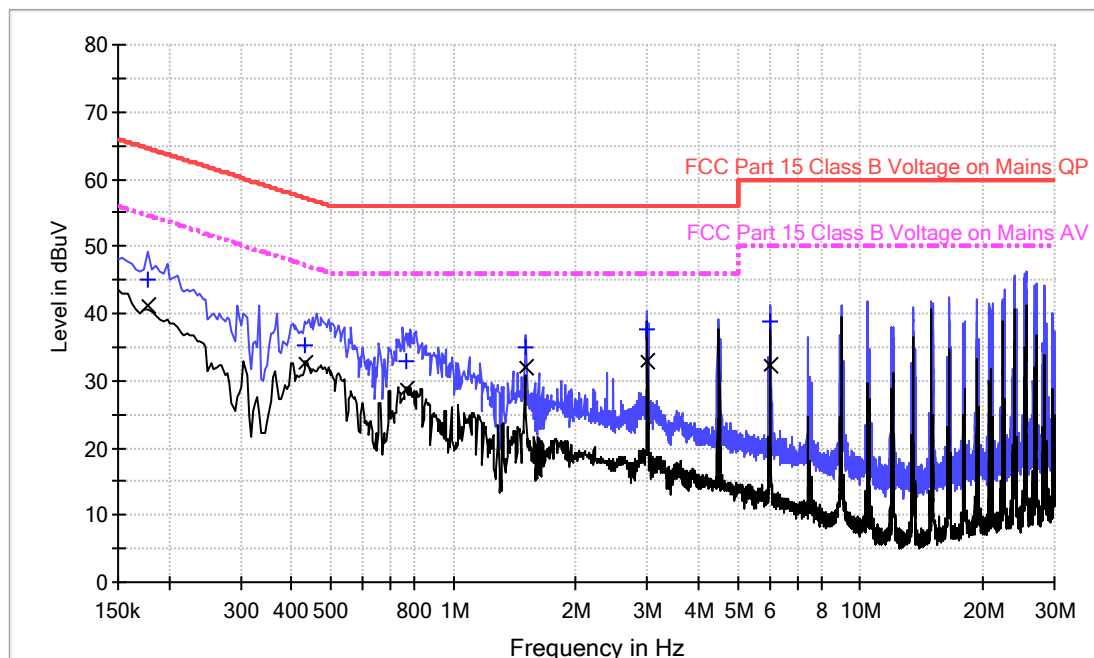
Model: e370

Worst Case Operating Mode: Transmitting(2440MHz)

Phase: Neutral

## Graphic / Data Table

### Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.178000	44.9	9.000	N	9.6	19.7	64.6
0.434000	35.2	9.000	N	9.4	22.0	57.2
0.766000	33.0	9.000	N	9.3	23.0	56.0
1.498000	35.1	9.000	N	9.3	20.9	56.0
3.002000	37.8	9.000	N	9.3	18.2	56.0
6.006000	38.9	9.000	N	9.4	21.1	60.0

### Limit and Margin AV

Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.178000	41.1	9.000	N	9.6	13.5	54.6
0.434000	32.6	9.000	N	9.4	14.6	47.2
0.766000	28.8	9.000	N	9.3	17.2	46.0
1.498000	32.0	9.000	N	9.3	14.0	46.0
3.002000	32.8	9.000	N	9.3	13.2	46.0
6.006000	32.2	9.000	N	9.4	17.8	50.0

## **5.0     Equipment Photographs**

For electronic filing, the photographs of the tested EUT are saved with filename: external photos.pdf & internal photos.pdf.

## **6.0     Product Labelling**

For electronic filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

## **7.0     Technical Specifications**

For electronic filing, the block diagram and schematics of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

## **8.0     Instruction Manual**

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

## 9.0 Miscellaneous Information

This miscellaneous information includes details of the measured bandedge, 20dB Bandwidth, the test procedure and calculation of factor such as pulse desensitization.

### 9.1 Bandedge Plot

The test plots are attached as below. From the plot, the field strength of any emissions outside of the specified frequency band are attenuated to the general radiated emission limits in section 15.209. It fulfils the requirement of 15.249(d).

#### Peak Measurement

Restricted-band band-edge tests shall be performed as radiated measurements, i.e (Band-edge Plot).

#### (i) Lower Bandedge:

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2400.000	66.1	36.7	28.1	57.5	74.0	-16.5

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2400.000	55.4	36.7	28.1	46.8	54.0	-7.2

#### (ii) Upper Bandedge:

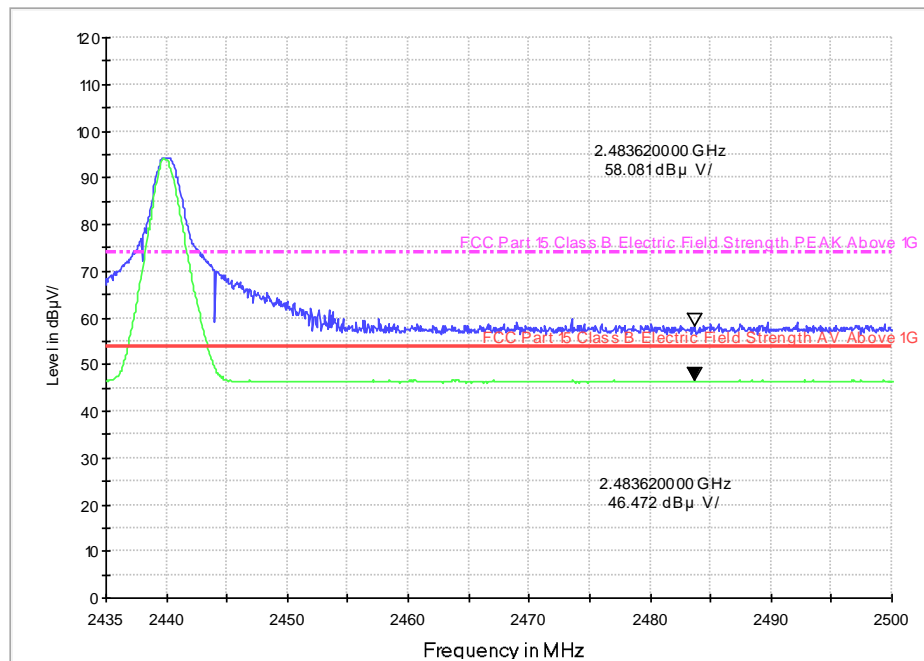
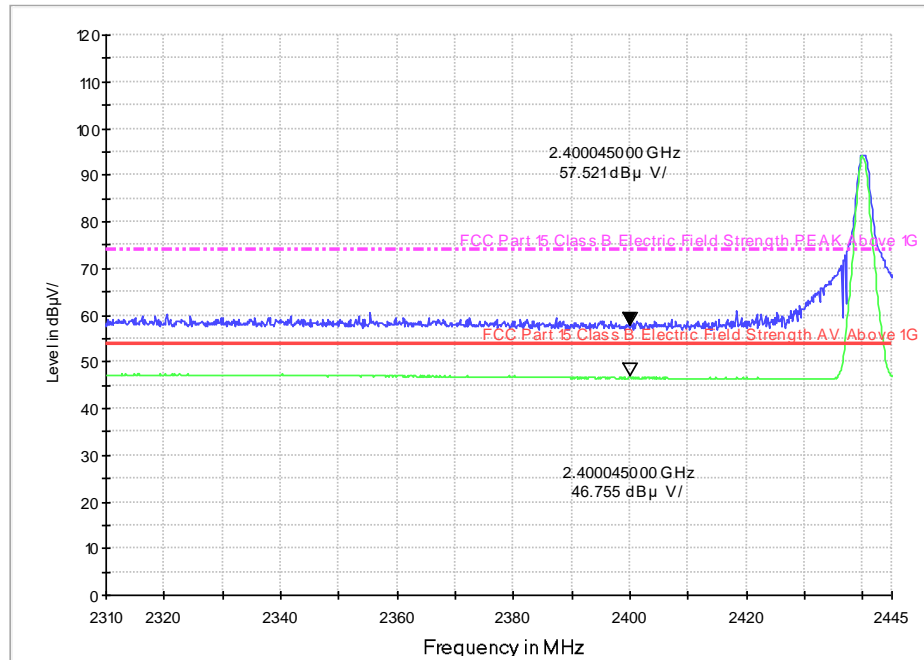
Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2483.500	63.7	36.8	31.2	58.1	74.0	-15.9

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2483.500	52.1	36.8	31.2	46.5	54.0	-7.5

The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 74dBμV/m (Peak Limit) and 54dBμV/m (Average Limit).

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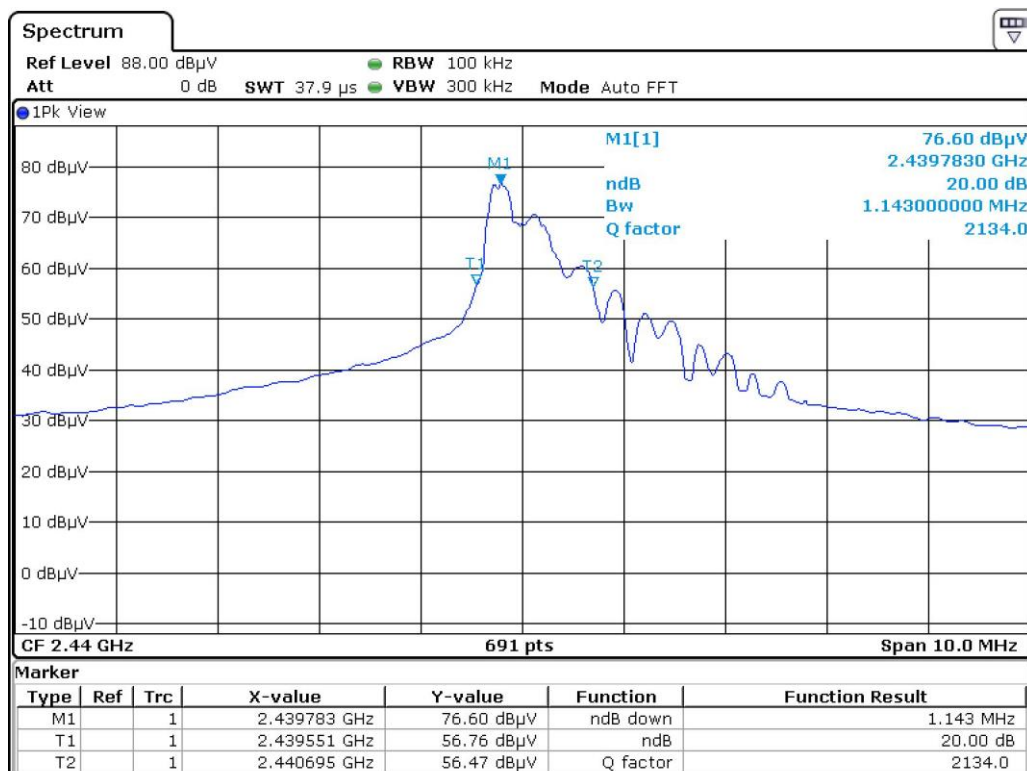


**Test Report**

Intertek Report No.: 181030045SZN-004

**9.2 20dB Bandwidth**

Pursuant to FCC part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered. The test plots are reported as below.



### 9.3 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period ( $T_{eff}$ ) is approximately 1.449ms for a digital "1" bit, as shown in the plots of Section 9.4. With a resolution bandwidth (3 dB) of 100 kHz, the pulse desensitivity factor was 0 dB

### 9.4 Calculation of Average Factor

Averaging factor in dB =  $20 \log (\text{duty cycle})$

The specification for output field strengths in accordance with the FCC rules specify measurements with an average detector. During testing, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation. The duty cycle is measured by placing the spectrum analyzer in zero scan (receiver mode) and linear mode at maximum bandwidth (3 MHz at 3 dB down) and viewing the resulting time domain signal output from the analyzer on a Tektronix oscilloscope. The oscilloscope is used because of its superior time base and triggering facilities.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 36.377ms

Effective period of the cycle =  $1.449\text{ms} * 11 = 15.939\text{ms}$

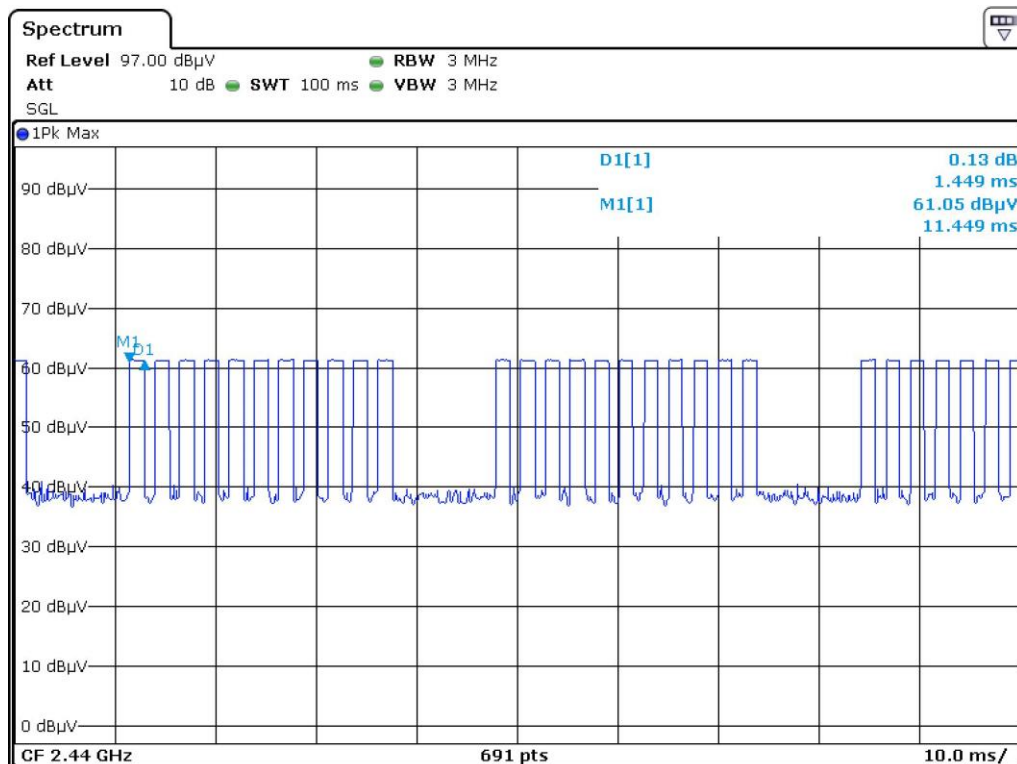
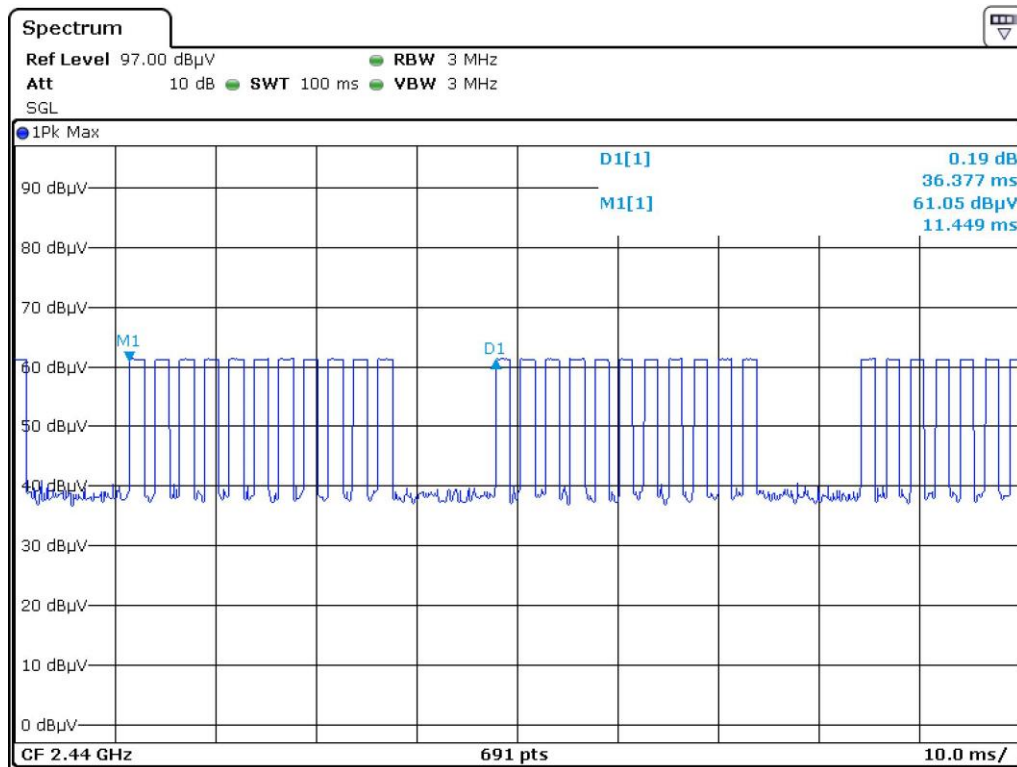
DC =  $15.939\text{ms} / 36.377\text{ms} = 0.4382$  or 43.82%

Therefore, the averaging factor is found by  $20 \log_{10} ( 0.4382 ) = -7.2\text{dB}$

The test plots are attached as below.

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## 9.5 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.10 - 2013.

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter up to 1GHz and 1.5 meter above 1GHz in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Section 9.4.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

Detector function for conducted emissions is in QP & AV mode and IFBW setting is 9 kHz from the frequency band 150 kHz to 30MHz.



## 9.5 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements are made as described in ANSI C63.10 - 2013.

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Section 9.3). Above 1000 MHz, a resolution bandwidth of 1 MHz is used, RBW 3MHz used for fundamental emission.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, but those measurements taken at a closer distance are so marked.

**Test Report**

Intertek Report No.: 181030045SZN-004

**10.0 Test Equipment List**

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-12	BiConiLog Antenna	ETS	3142E	00166158	14-Sep-2018	14-Sep-2019
SZ185-01	EMI Receiver	R&S	ESCI	100547	4-Jan-2019	4-Jan-2020
SZ061-08	Horn Antenna	ETS	3115	00092346	14-Sep-2018	14-Sep-2019
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	14-Sep-2018	14-Sep-2019
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	24-May-2019	24-May-2021
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	05-Jun-2018	05-Jun-2019
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	05-Jun-2018	05-Jun-2019
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	15-Jan-2019	15-Jan-2020
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	15-Dec-2018	15-Dec-2020
SZ062-02	RF Cable	RADIAL	RG 213U	--	02-Jun-2019	02-Dec-2019
SZ062-05	RF Cable	RADIAL	0.04-26.5GHz	--	02-Jun-2019	02-Dec-2019
SZ062-12	RF Cable	RADIAL	0.04-26.5GHz	--	02-Jun-2019	02-Dec-2019
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	05-Jun-2018	05-Jun-2019
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	26-Oct-2018	26-Oct-2019
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	26-Oct-2018	26-Oct-2019
SZ188-03	Shielding Room	ETS	RFD-100	4100	29-Oct-2018	29-Oct-2019

\*\*\*\*\* End of Report \*\*\*\*\*