

Issued: 2016-12-06

TEST REPORT

Applicant Name & : SUNWAY INDUSTRIES(HONG KONG)CO.LTD

Address UNIT C, 16/F., CHINAWEAL CENTRE, 414-424 JAFFE ROAD,

WANCHAI, HONG KONG

Sample Description

Product : Kitchen Machine (Cooking Blender)

FCC ID : 2AJMC-1280025848821

Model No. : SPM-128L Electrical Rating : AC 120V/60Hz

Date Received : 22 July 2016

Date Test Conducted : 23 July 2016 – 30 October 2016

Test standards : 47 CFR PART 15 Subpart C: 2015 section 15.247

Test Result : Pass

Conclusion : The submitted samples complied with the above rules/standards.

Remark : TRF No.: FCC BT 3.0-a

Effective date: 01 July 2016

Prepared and Checked By:

Approved By:

Sky 7hu

Project Engineer

Intertek Guangzhou

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06 December 2016 Date

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1.0 Summary of Test

TEST	TEST REQUIREMENT	TEST METHOD	RESULT
Antenna Requirement	FCC PART 15 C Clause 15.247 (c) and Clause 15.203	FCC PART 15 C Clause 15.247 (c) and Clause 15.203	PASS
20 dB Bandwidth	FCC PART 15 C Clause 15.247 (a)(1)	ANSI C63.10: Clause 7.8.7 & 6.9.2	PASS
Carrier Frequencies Separated	FCC PART 15 C Clause 15.247(a)(1)	ANSI C63.10: Clause 7.8.2	PASS
Hopping Channel Number	FCC PART 15 C Clause 15.247(a)(1)(iii)	ANSI C63.10: Clause 7.8.3	PASS
Dwell Time	FCC PART 15 C Clause 15.247(a)(1)(iii)	ANSI C63.10: Clause 7.8.4	PASS
Pseudorandom Frequency Hopping Sequence	FCC PART 15 C Clause 15.247(a)(1)	FCC PART 15 C Clause 15.247(a)(1)	PASS
Maximum Peak Conducted Output Power	FCC PART 15 C Clause 15.247(b)(1)	ANSI C63.10: Clause 7.8.5	PASS
Out of Band Conducted Emissions	FCC PART 15 C Clause 15.247(d)	ANSI C63.10: Clause 7.8.8	PASS
Out of Band Radiated Emission	FCC PART 15 C Clause 15.247(d)	ANSI C63.10: Clause 6.4, 6.5 and 6.6	N/A
Radiated Emissions in Restricted Bands	FCC PART 15 C Clause 15.209 &15.247(d)	ANSI C63.10: Clause 6.4, 6.5 and 6.6	PASS
Band Edges Measurement	FCC PART 15 C Clause 15.247 (d) &15.205	ANSI C63.10: Clause 7.8.6 & 6.10	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C Clause 15.207	ANSI C63.10: Clause 6.2	PASS

Remark:

N/A: not applicable. Refer to the relative section for the details. EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency.

ANSI C63.10: the detail version is ANSI C63.10:2013 in the whole report.

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2.0 General Description

2.1 Product Description

Operating Frequency 2402 MHz to 2480 MHz

Type of Modulation: GFSK, $(\pi/4)$ -DQPSK, 8-DPSK

Number of Channels 79 Channels

Channel Separation: 1 MHz

Dwell time Per channel is less than 0.4s.

Antenna Type Integral
Antenna gain: 1.5 dBi

Speciality: Bluetooth 3.0 with EDR

Function: Speaker with BT function to transmit and receive audio signal.

Power Supply: AC 120V 60 Hz

Power cord: 1.1 m x 3 wires unscreened AC supply cable

Remark: The device meets the requirements stated within Parts 15.247(g) & (h) in that they were developed under the Bluetooth protocol and operate as a true frequency hopping system. The device does not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

EUT modulation and data packet during test:

For Normal mode:

The EUT has been tested on the Modulation of GFSK with DH1, DH3 and DH5 data packet.

For EDR mode:

- 1. The EUT been tested on the Modulation of $(\pi/4)$ -DQPSK with 2DH1, 2DH3 and 2DH5 data packet.
- 2. The EUT has been tested on the Modulation of 8-DPSK with 3DH1, 3DH3 and 3DH5 data packet.

EUT channels and frequencies list:

Test frequencies are lowest channel 0: 2402 MHz, middle channel 39: 2441 MHz and highest channel 78: 2480 MHz.

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Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	27	2429	54	2456
1	2403	28	2430	55	2457
2	2404	29	2431	56	2458
3	2405	30	2432	57	2459
4	2406	31	2433	58	2460
5	2407	32	2434	59	2461
6	2408	33	2435	60	2462
7	2409	34	2436	61	2463
8	2410	35	2437	62	2464
9	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454	/	/
26	2428	53	2455	/	/

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2.2 Related Submittal(s) Grants

This is an application for certification of:

FHSS- Part 15 Spread Spectrum Transmitter (BT transmitter portion)

Remaining portions are subject to the following procedures:

- 1. Receiver portion of BT: exempt from technical requirement of this Part.
- 2. The food maker function: exempt from FCC requirement.

2.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10:2013. Radiated emission measurement was performed in semi-anechoic chamber, for radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.

2.4 Test Facility

All of the tests are performed at:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD Guangzhou, China 510663.

This test facility and site measurement data have been fully placed on file with the FCC, test firm registration number is 549654.

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3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing.

The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. The spurious emissions more than 20 dB below the permissible value are not reported.

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

Number of fundamental frequencies to be tested in EUT transmit band

difficult of fundamental frequencies to be tested in 201 transmit cand				
Frequency range in which	Number of	Location in frequency		
device operates	frequencies	range of operation		
1 MHz or less	1	Middle		
1 MHz to 10 MHz	2	1 near top and 1 near bottom		
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom		

3.2 EUT Exercising Software

The test was performed under "MT 7601USB" which was provided by manufacture.

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3.3 Special Accessories

No special accessories used.

3.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	RF output power (conducted)	1.1 dB
2	Occupied Channel Bandwidth	2.3%
3	Power Spectral Density	1.5dB
4	Spurious Emission (TX)-Radiated	4.7 dB (25 MHz-1 GHz) 4.8 dB (1 GHz-18 GHz)
5	Spurious Emission (TX)-Conducted	1.5 dB
6	Spurious Emission (RX) -Radiated	4.7 dB (25 MHz-1 GHz) 4.8 dB (1 GHz-18 GHz)
7	Spurious Emission (RX)-Conducted	1.5 dB
8	Temperature	0.5 °C
9	Humidity	0.4 %
10	Time	1.2%

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

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

3.5 **Equipment Modification**

Any modifications installed previous to testing by "SUNWAY INDUSTRIES(HONG KONG)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. Guangzhou Branch.

3.6 Support Equipment List and Description

This product was tested with corresponding accessories as below:

Supplied by Intertek:

Description	Manufacturer	Model No.	SN/Certificate NO
NoteBook	Lenovo	T430	CNU8240LF9

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4.0 Measurement Results

4.1 Antenna Requirement

Standard requirement

15.203 requirement:

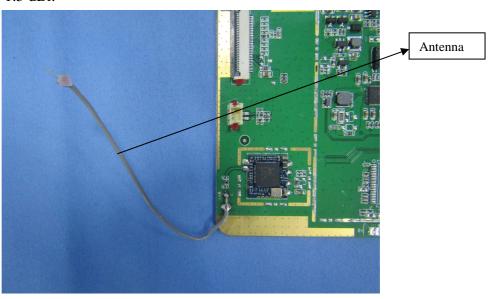
For intentional device. According to 15.203. an intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna

The antenna is an integral antenna and no consideration of replacement. The best case gain of the antenna is 1.5 dBi.



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4.2 20 dB Bandwidth

Test Requirement: FCC Part 15 C section 15.247

(a)(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125

mW.

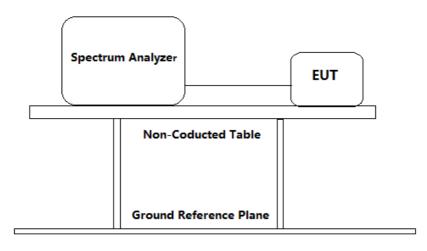
Test Method: ANSI C63.10: Clause 7.8.7 & 6.9.2

Test Status: Pre-test the EUT in continuous transmitting mode at the lowest

(2402 MHz), middle (2441 MHz) and highest (2480 MHz) channels with different data package. Compliance test in normal mode (DH5) and EDR mode (3DH5) as the worst case was

found.

Test Configuration:



Test Procedure:

Removed the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum. The transmitter was operated at its maximum carrier power measured under normal test conditions.

1. The instrument center frequency was set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer was between two times and five times the

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OBW(20 dB Bandwidth).

- 2. The nominal IF filter bandwidth (3 dB RBW) was in the range of 1% to 5% of the OBW, and VBW was approximately three times the RBW.
- 3. Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope was more than [10 log (OBW/RBW)] below the reference level.
- 4. Step 1) through step 3) might require iteration to adjust within the specified range.
- 5. The dynamic range of the instrument at the selected RBW was more than 10 dB below the target "-20 dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW was at least 30 dB below the reference value.
- 6. Peak detection and max hold mode (until the trace stabilizes) was used.
- 7. Used the 20dB bandwidth function of the instrument and reported the measured bandwidth.
- 8. The occupied bandwidth was reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division was clearly labeled. Tabular data was reported in addition to the plot(s).

Test result:

Normal mode (DH5):

Test Channel	Bandwidth(MHz)	2/3 bandwidth(MHz)
Lowest	1.124	0.749
Middle	1.121	0.747
Highest	1.121	0.747

EDR mode (3DH5):

Test Channel	bandwidth	2/3 bandwidth
Lowest	1.396	0.930
Middle	1.396	0.930
Highest	1.396	0.930

Test result: The unit does meet the FCC requirements.

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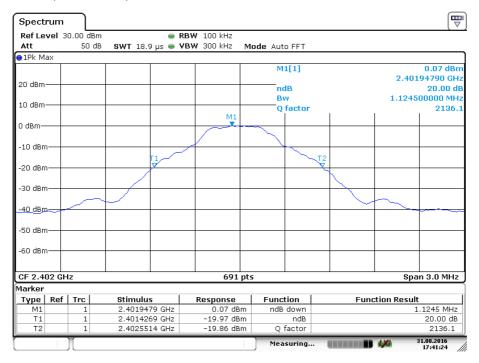


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Result plot as follows:

Normal mode (DH5):

Lowest Channel(2.402 GHz):

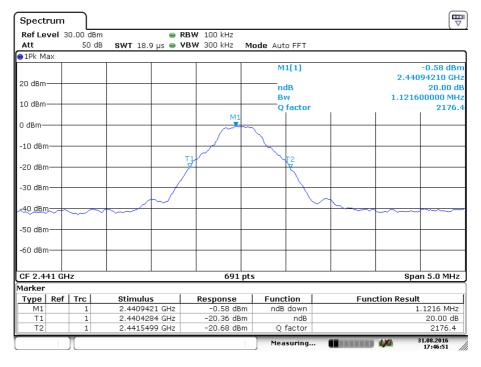


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Middle Channel(2.441 GHz):

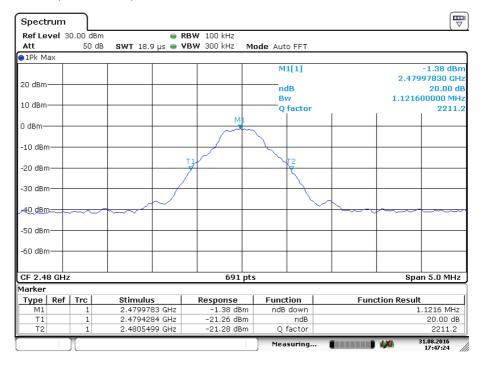


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Highest Channel(2.480 GHz):



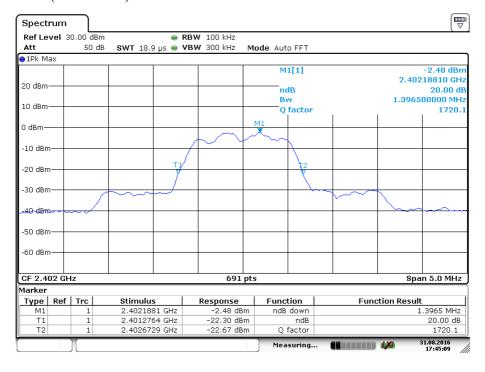
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EDR mode (3DH5):

Lowest channel(2.402 GHz):

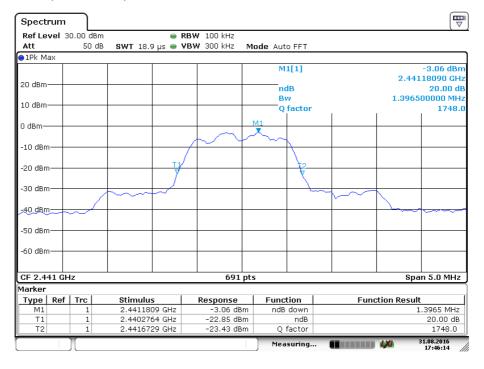


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Middle channel(2.441 GHz):

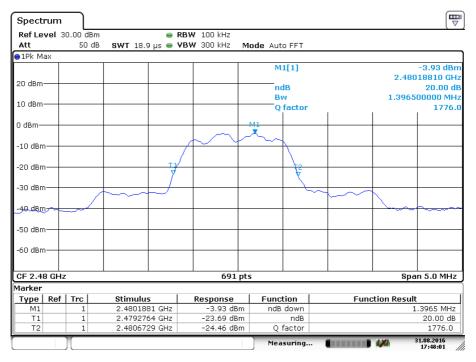


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Highest channel(2.480 GHz):



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4.3 Carrier Frequencies Separated

Test Requirement: FCC Part 15 C section 15.247

(a)(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output

power no greater than 125 mW.

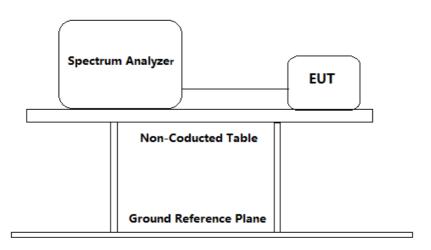
Test Method: ANSI C63.10: Clause 7.8.2

Test Status: Pre-test the EUT in continuous transmitting mode at the lowest (2402)

MHz), middle (2441 MHz) and highest (2480 MHz) channel and hopping mode with different data packet. Compliance test in hopping

with normal mode (DH5) as the worst case was found.

Test Configuration:



Test Procedure:

- 1. Removed the antenna from the EUT and then connect a low attenuation RF cable from the antenna port to the spectrum.
- 2. Span: Wide enough to capture the peaks of two adjacent channels.
- 3. Set the spectrum analyzer: RBW >= 1% of the span, VBW >= RBW, Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 4. Allowed the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

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Test result:

Test Channel	Carrier Frequencies Separated	Pass/Fail
Lower Channels (channel 0 and channel 1)	1013kHz	Pass
Middle Channels (channel 39 and channel 40)	1013kHz	Pass
Upper Channels (channel 77 and channel 78)	1013kHz	Pass

Remark:

The limit is the maximum two-thirds of the 20 dB bandwidth: 930 kHz.

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Result plot as follows:

Test worst case mode: DH5

Lowest Channels: Carrier Frequencies Separated

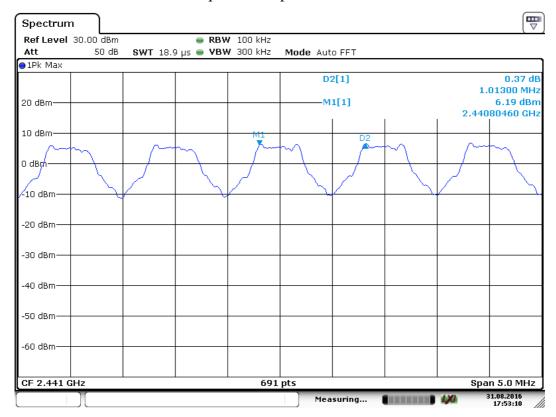


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Middle Channels: Carrier Frequencies Separated



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Highest Channels: Carrier Frequencies Separated



Test result: The unit does meet the FCC requirements.

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4.4 Hopping Channel Number

Test Requirement: FCC Part15 C section 15.247

(a)(1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band

shall use at least 15 channels.

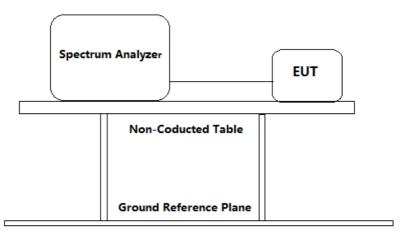
Test Method: ANSI C63.10: Clause 7.8.3

Test Status: Pre-test the EUT in hopping mode with different data packet.

Compliance test in hopping with Normal mode (DH5) as the worst

case was found.

Test Configuration:



Test Procedure:

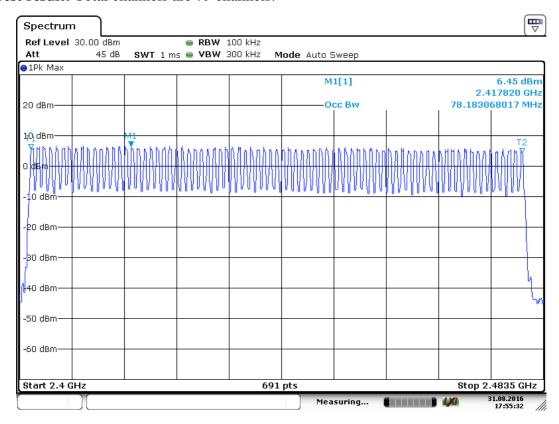
- 1. Removed the antenna from the EUT and then connect a low attenuation RF cable from the antenna port to the spectrum.
- 2. Span: The frequency band of operation
- 3. Set the spectrum analyzer: RBW = 100 kHz. VBW = 100 kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 4. Allowed the trace to stabilize.
- 5. Set the spectrum analyzer: start frequency = 2400 MHz, stop frequency = 2483.5 MHz. Submit the test result graph.

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Test result: Total channels are 79 channels.



Test result: The unit does meet the FCC requirements.

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4.5 Dwell Time

Test Requirement: FCC Part 15 C section 15.247

(a)(1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15

channels are used.

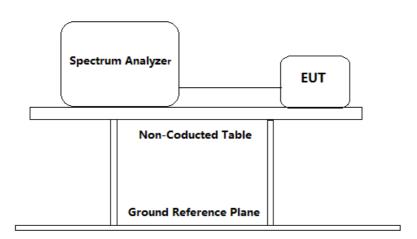
Test Method: ANSI C63.10: Clause 7.8.4

Test Status: Test the EUT in hopping mode at the lowest (2402 MHz), middle

(2441 MHz) and highest (2480 MHz) channel with different data packet. Compliance test in hopping mode with EDR mode (3DH1,

3DH3 and 3DH5) as the worst case was found.

Test Configuration:



Test Procedure:

- 1. Removed the antenna from the EUT and then connect a low attenuation RF cable from the antenna port to the spectrum.
- 2. Set spectrum analyzer span = 0, centered on a hopping channel.
- 3. Set RBW = 1 MHz and VBW = 1 MHz. Sweep = as necessary to capture the entire dwell time per hopping channel. Detector Function = Peak. Trace = Max hold;
- 4. Used the marker-delta function to determine the dwell time.

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Test Result:

The test period: T = 0.4 s x 79 Channel = 31.6 s

```
1. Channel 0: 2.402 GHz
3DH1 \text{ time slot} = 0.400 \text{ (ms)}
                                   32 *
                                           (31.6/3.16) = 128.000
                                                                   ms
3DH3 \text{ time slot} = 1.658 \text{ (ms)}
                                   16 *
                                           (31.6/3.16) =
                                                          265.280
                                                                   ms
3DH5 time slot = 2.898 (ms) *
                                   13 *
                                           (31.6/3.16) =
                                                          376.740
                                                                   ms
2. Channel 39: 2.441 GHz
3DH1 time slot = 0.394
                          (ms)
                                   31
                                           (31.6/3.16) = 122.140
                                                                   ms
3DH3 time slot = 1.646
                                   19 *
                          (ms)
                                           (31.6/3.16) = 312.740
                                                                   ms
3DH5 \text{ time slot} = 2.898 \text{ (ms)}
                                   11 *
                                           (31.6/3.16) = 318.780
                                                                   ms
3. Channel 78: 2.480 GHz
3DH1 time slot = 0.394
                                   32 *
                                           (31.6/3.16) = 126.080
                          (ms)
                                                                   ms
3DH3 time slot = 1.646
                                   18
                                           (31.6/3.16)
                                                          296.280
                          (ms)
                                                                   ms
3DH5 time slot = 2.898
                                   11 *
                                          (31.6/3.16) = 318.780
                          (ms)
                                                                   ms
```

The average time of occupancy in the specified 31.6 second period is equal to pulse width x (number of pulse in observation period) x (test period / observation period)

The results are not greater than 0.4 seconds.

The unit does meet the FCC requirements.

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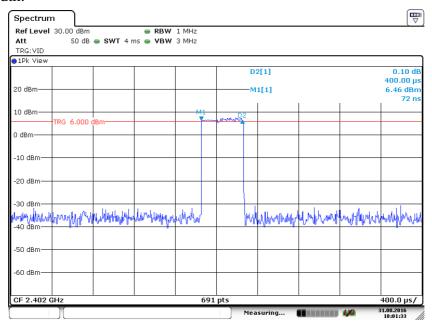
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Result plot as follows:

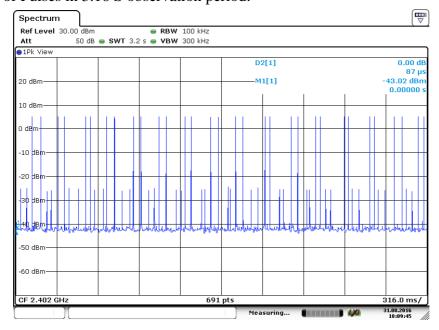
1. Lowest channel (2.402 GHz):

(1)3DH1

Pulse Width:



Number of Pulses in 3.16 S observation period:



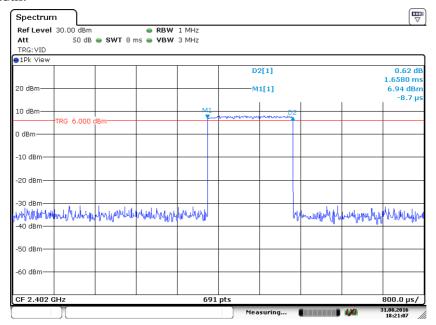
FCC ID: 2AJMC-1280025848821



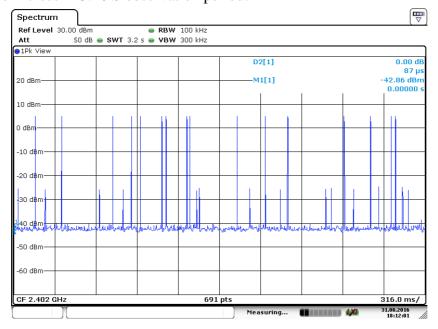
Issued: 2016-12-06

(2) 3DH3

Pulse Width:



Number of Pulses in 3.16 S observation period:



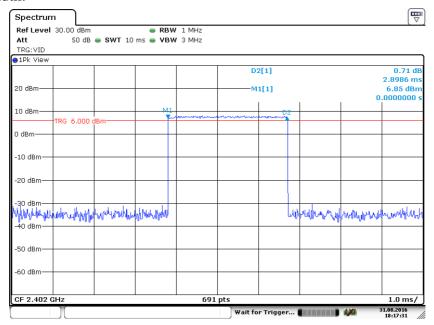
FCC ID: 2AJMC-1280025848821



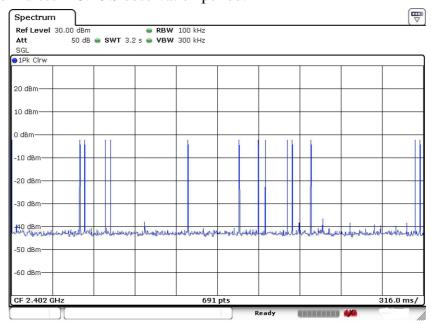
Issued: 2016-12-06

(3) 3DH5

Pulse Width:



Number of Pulses in 3.16 S observation period:



FCC ID: 2AJMC-1280025848821

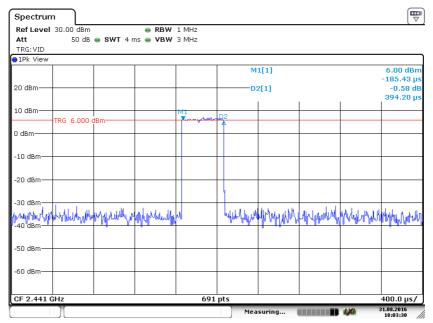


Issued: 2016-12-06

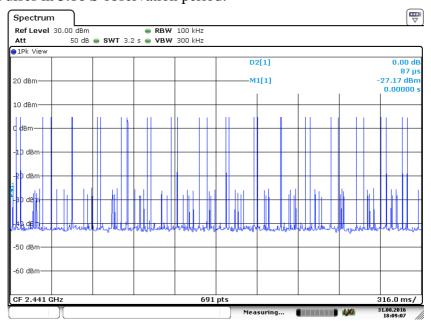
2. Middle Channel (2.441 GHz):

(1). 3DH1

Pulse Width:



Number of Pulses in 3.16 S observation period:



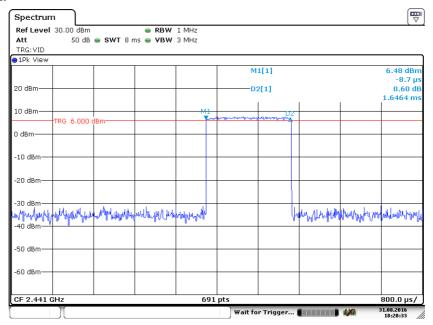
FCC ID: 2AJMC-1280025848821



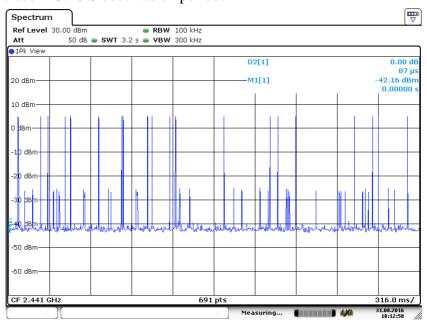
Issued: 2016-12-06

(2) 3DH3

Pulse Width:



Number of Pulses in 3.16 S observation period:



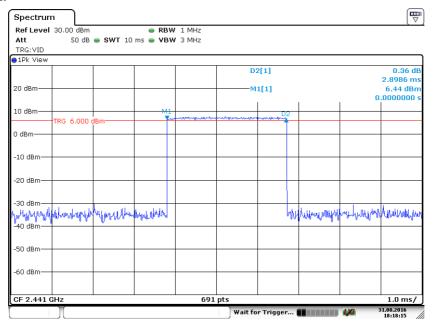
FCC ID: 2AJMC-1280025848821



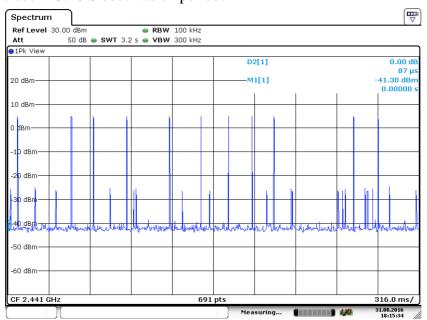
Issued: 2016-12-06

(3) 3DH5

Pulse Width:



Number of Pulses in 3.16 S observation period:



FCC ID: 2AJMC-1280025848821

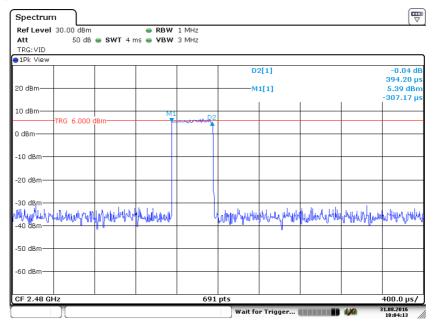


Issued: 2016-12-06

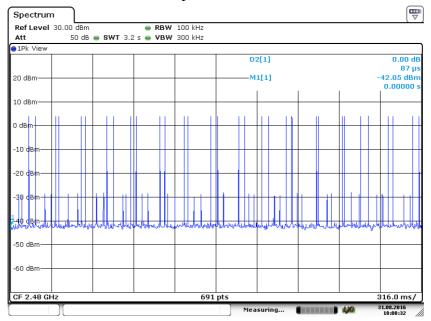
3. Highest Channel (2.480 GHz):

(1). 3DH1

Pulse Width:



Number of Pulses in 3.16 S observation period:



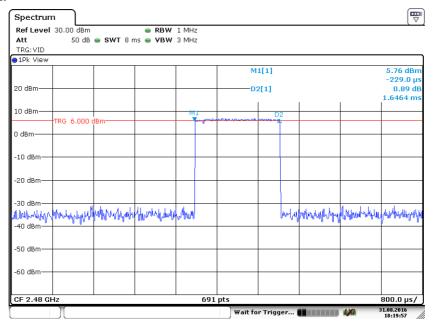
FCC ID: 2AJMC-1280025848821



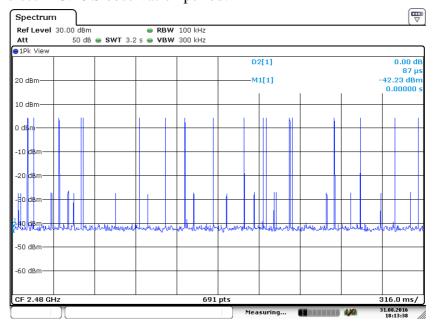
Issued: 2016-12-06

(2) 3DH3

Pulse Width:



Number of Pulses in 3.16 S observation period:



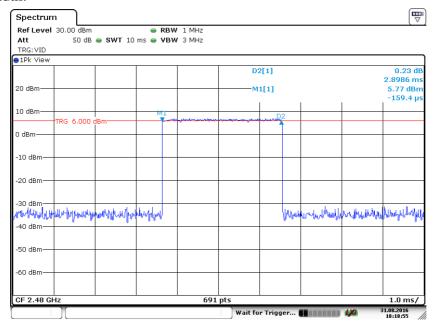
FCC ID: 2AJMC-1280025848821



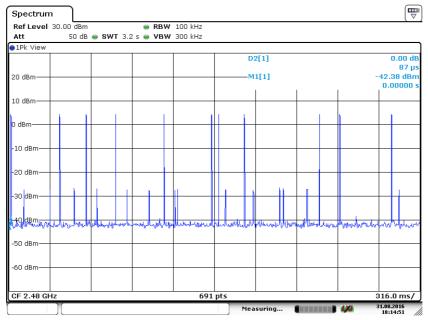
Issued: 2016-12-06

(3) 3DH5

Pulse Width:



Number of Pulses in 3.16 S observation period:



FCC ID: 2AJMC-1280025848821



Issued: 2016-12-06

4.6 Pseudo random Frequency Hopping Sequence

4.6.1 Standard requirement

15.247(a)(1) requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudo random ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

4.6.2 EUT Pseudo random Frequency Hopping Sequence

Bluetooth protocol is utilized by the EUT. It is shown that each frequency used equally on the average by the transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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4.7 Maximum Peak Conducted Output Power

Test Requirement: FCC Part 15 C section 15.247

(b)(1)For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping

systems in the 2400-2483.5 MHz band: 0.125 watts.

Test Method: ANSI C63.10: Clause 7.8.5

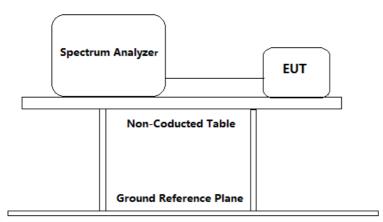
Test Status: Pre-test the EUT in continuous transmitting mode at the lowest

(2402 MHz), middle (2441 MHz) and highest (2480 MHz)

channel with different data packet. Compliance test in continuous transmitting mode with normal (DH5) and EDR mode (3DH5) as

the worst case was found.

Test Configuration:



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Test Procedure:

- 1. Removed the antenna from the EUT and then connect a low attenuation RF cable (cable loss=0.5 dB) from the antenna port to the spectrum.
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. Set the spectrum analyzer: RBW = 2 MHz (RBW > 20 dB bandwidth of the emission being measured) . VBW = 2 MHz. Sweep = auto; Detector Function = Peak. Trace: Max hold.
- 4. Kept the EUT in transmitting at lowest, medium and highest channel with different data packet individually. Record the max value.

Test result:

Normal mode (DH5):										
Test Fundamental Channel Frequency (MHz)		Output Power (dBm)	Limit (dBm)	Result						
Lowest	2402	1.5	21.0	Pass						
Middle	2441	1.0	21.0	Pass						
Highest	2480	0.3	21.0	Pass						

EDR mode(3DH5):

Test Channel	Fundamental Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result	
Lowest	2402	2.9	21.0	Pass	
Middle	2441	2.5	21.0	Pass	
Highest	2480	1.7	21.0	Pass	

Remark:

Cable lose=0.5 dB

Level = Read Level + Cable Loss.

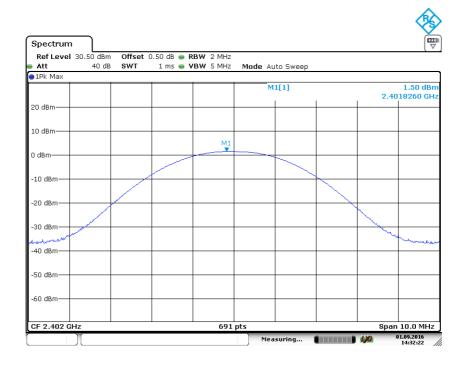


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Result plot as follows:

Normal mode(DH5):

Lowest Channel(2.402 MHz):

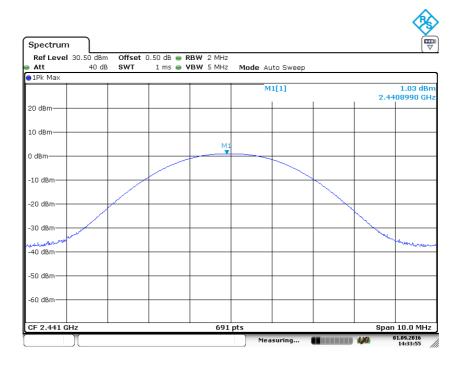


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Middle Channel(2.441 GHz):



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Highest Channel(2.480 GHz):



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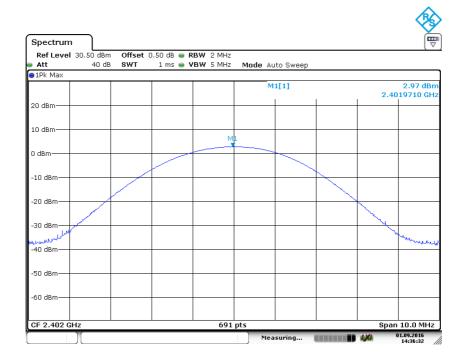
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EDR mode (3DH5):

Lowest channel(2.402 GHz):

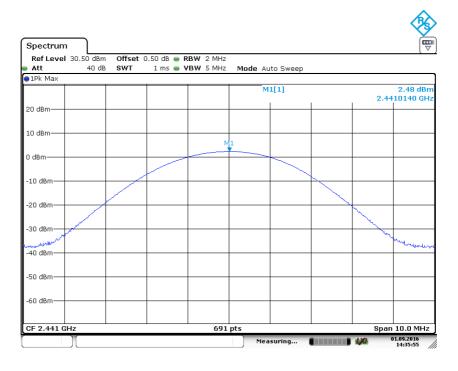


FCC ID: 2AJMC-1280025848821



Issued: 2016-12-06

Middle channel(2.441 GHz):

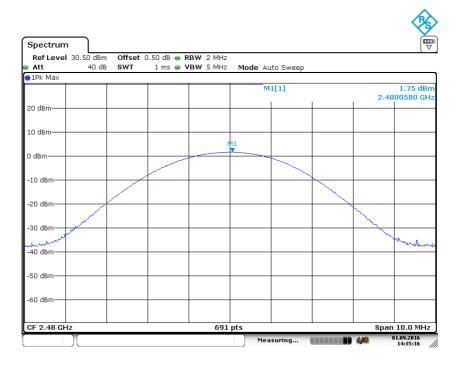


FCC ID: 2AJMC-1280025848821



Issued: 2016-12-06

Highest channel(2.480 GHz):



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4.5 Out of Band Conducted Emissions

Test Requirement: FCC Part 15 C section 15.247

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance

with the peak conducted power limits.

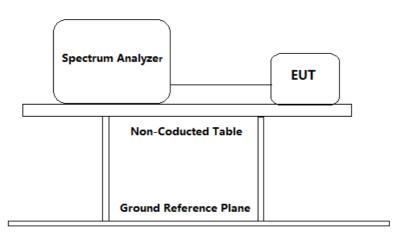
Test Method: ANSI C63.10: Clause 7.8.8

Test Status: Pre-test the EUT in continuous transmitting mode at the lowest

(2402 MHz), middle (2441 MHz) and highest (2480 MHz) channel with different data packet. Compliance test in continuous transmitting mode with EDR mode (3DH5) as the worst case was

found.

Test Configuration:



Test Procedure:

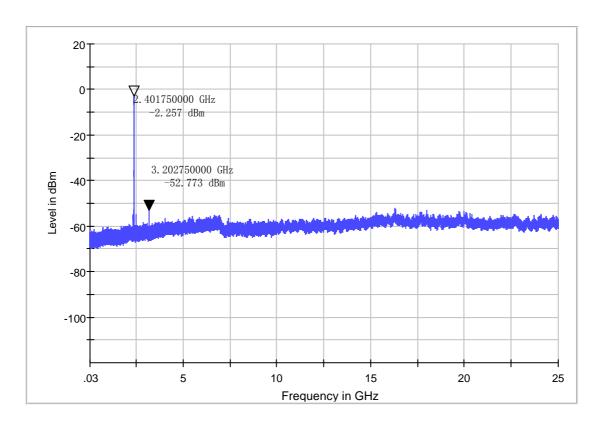
- 1. Removed the antenna from the EUT and then connect a low RF cable (cable loss =0.5dB) from the antenna port to the spectrum analyser.
- 2. Set the spectrum analyzer: RBW=100 kHz, VBW = 300 kHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
- 3. Measured the Conducted unwanted Emissions of the test frequency with special test status.
- 4. Repeated until all the test status was investigated.



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Result plot as follows:

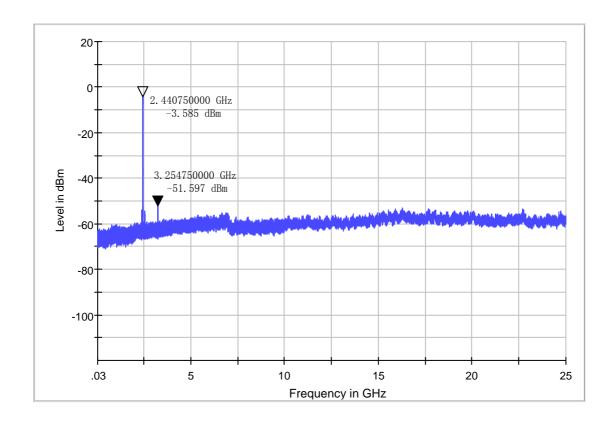
Lowest Channel 2402MHz: 30 M to 25 GHz





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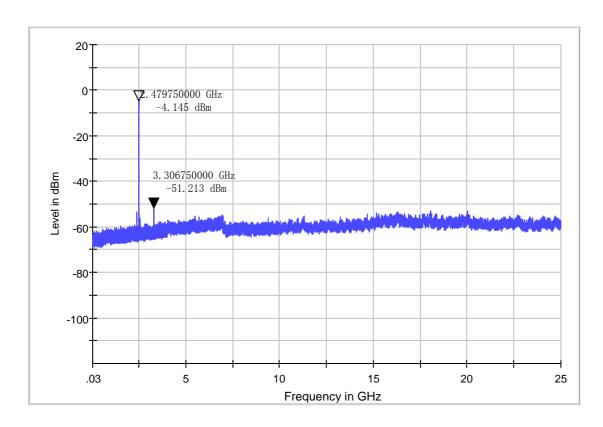
Middle Channel 2441MHz: 30 M to 25 GHz





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Highest Channel 2480MHz: 30 M to 25 GHz



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4.6 Out of Band Radiated Emissions

For out of band radiated emissions into Non-Restricted Frequency Bands were performed at a 3m separation distance to determine whether these emissions complied with the 20dB attenuation requirement.

$[\times]$		Not required,	since al	ll emissions	are more	than 20	dB bel	low fu	ndamer	ntal
[]	See attached	data she	et						

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4.7 Radiated Emissions in Restricted Bands

Test Requirement: FCC Part 15 C section 15.247

(d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section

15.205(c)).

Test Method: ANSI C63.10: Clause 6.4, 6.5 and 6.6

Test Status: Pre-test the EUT in continuous transmitting mode at the lowest

(2402 MHz), middle (2441 MHz) and highest (2480 MHz) channel

with different data packet. Compliance test in continuous

transmitting mode with EDR mode (3DH5) as the worst case was

found.

Test site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Limit: Section 15.209

 $40.0 \text{ dB}\mu\text{V/m}$ between 30MHz & 88MHz; $43.5 \text{ dB}\mu\text{V/m}$ between 88MHz & 216MHz;

46.0 dBµV/m between 216MHz & 960MHz;

54.0 dBµV/m above 960MHz.

Detector: For Peak and Quasi-Peak value:

RBW =

1 MHz for $f \ge 1$ GHz,

200 Hz for 9 kHz to 150 kHz 9 kHz for 150 kHz to 30 MHz 120 kHz for 30 MHz to 1GHz

 $VBW \ge RBW$ Sweep = auto

Detector function = peak for $f \ge 1$ GHz, QP for f < 1 GHz

Trace = max hold

For AV value:

RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz

VBW=3M Hz

Detector function =AV detector

Sweep = auto Trace = max hold

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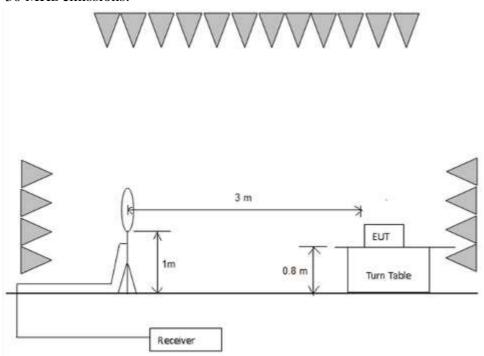
Issued: 2016-12-06

Section 15.205 Restricted bands of operation.

MHz	MHz	MHz	GHz
0.090 - 0.110 10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2 108 - 121.94 123 - 138 149.9 - 150.05 156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2 240 - 285 322 - 335.4	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7 13.25 - 13.4 14.47 - 14.5 15.35 - 16.2 17.7 - 21.4 22.01 - 23.12 23.6 - 24.0 31.2 - 31.8 36.43 - 36.5

Test Configuration:

1) 9 kHz to 30 MHz emissions:



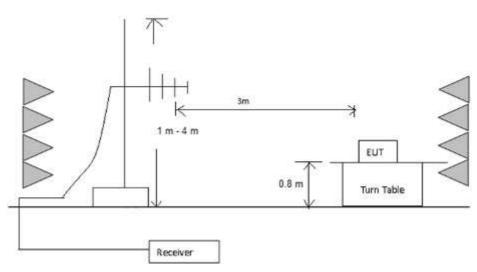
FCC ID: 2AJMC-1280025848821



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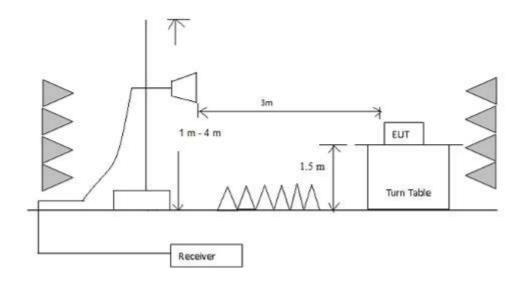
2) 30 MHz to 1 GHz emissions:





3) 1 GHz to 40 GHz emissions:





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Test Procedure:

1) 9 kHz to 30 MHz emissions:

For testing performed with the loop antenna. The centre of the loop was positioned 1 m above the ground and positioned with its plane vertical at the special distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

2) 30 MHz to 1 GHz emissions:

For testing performed with the bi-log type antenna. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

3) 1 GHz to 25 GHz emissions:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2010 was used to perform radiated emission test above 1 GHz.

For testing performed with the horn antenna. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

4) The receiver was scanned from 9 kHz to 25 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

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EDR mode (3DH5)

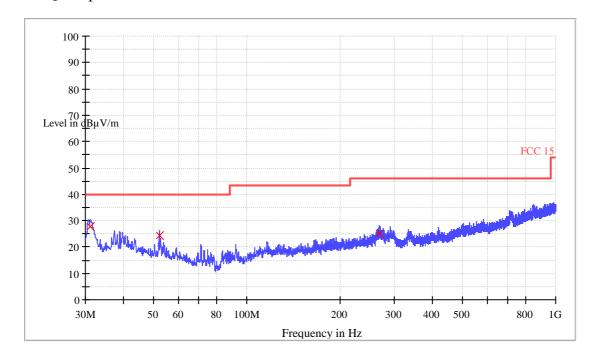
Test at Lowest Channel (2.402 GHz) in transmitting status 9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement

Vertical:

Peak scan Level ($dB\mu V/m$)

Quasi-peak measurement



QP

Frequency (MHz)	QuasiPeak (dΒμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.240000	27.7	120.000	٧	13.3	12.3	40.0
52.120000	24.4	120.000	٧	11.8	15.6	40.0
269.000000	25.2	120.000	٧	16.0	20.8	46.0

FCC ID: 2AJMC-1280025848821

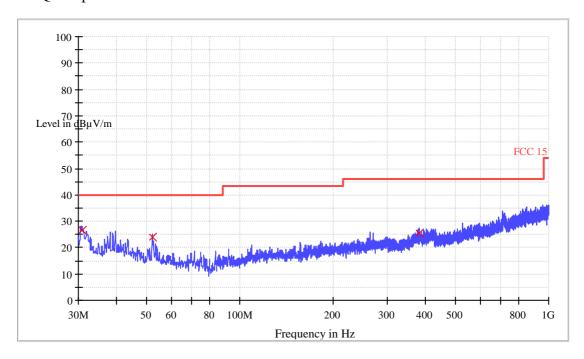


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Horizontal:

Peak scan Level $(dB\mu V/m)$

Quasi-peak measurement



QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.800000	26.6	120.000	٧	13.1	13.4	40.0
52.200000	23.9	120.000	٧	11.7	16.1	40.0
380.000000	25.6	120.000	٧	18.6	20.4	46.0

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1~25 GHz Radiated Emissions. Peak & Average Measurement

Polarization	Frequency (MHz)	PK Net at 3m (dBµV/m)	AV Net at 3m (dBµV/m)	Correction Factor (dB)	PK Limit at 3m (dBµV/m)	PK Margin (dB)	AV Limit at 3m (dBµV/m)	AV Margin (dB)
Horizontal	5136.800	42.8	/	-0.3	74.0	/	54.0	-11.2
Horizontal	7733.200	47.9	1	4.7	74.0	/	54.0	-6.1
Horizontal	10774.000	48.8	1	8.0	74.0	/	54.0	-5.2
Vertical	6005.600	49.5	1	2.4	74.0	/	54.0	-4.5
Vertical	7750.400	48.3	/	4.8	74.0	/	54.0	-5.7
Vertical	10265.600	49.6	/	7.7	74.0	/	54.0	-4.4

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Correction Factor

Correction Factor = Antenna Factor + Cable Loss – Preamplifier Factor.

Remark:

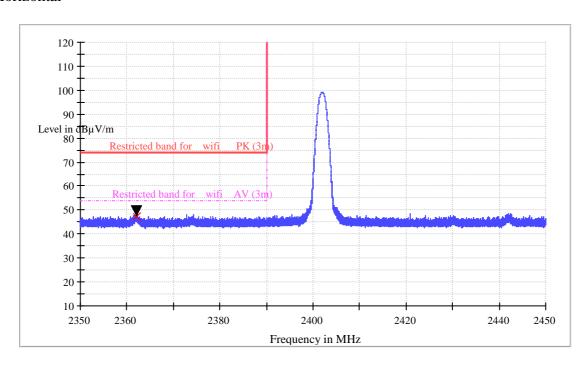
When Peak emission level was below AV limit, the AV emission level did not be recorded.

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Band Edge test Restricted Bands Horizontal



Result Table_Single

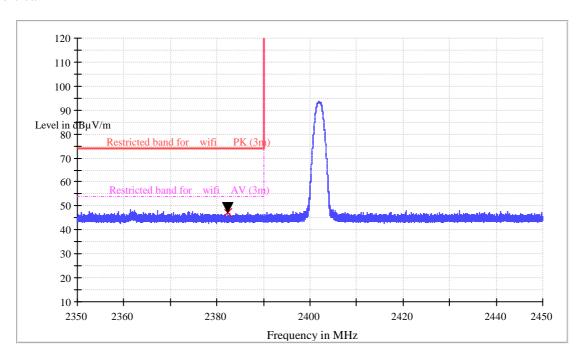
Frequer (MHz)	- ,	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Limit (dBµV/m)
2362.00	0000	47.4	1000.0	1000.000	130.0	Н	359.0	-2.3	54

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Vertical



Result Table Single

	_	J -						
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Limit (dBµV/m)
2382.400000	47.1	1000.0	1000.000	130.0	٧	359.0	-2.3	54



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Test at Middle Channel (2.441 GHz) in transmitting status

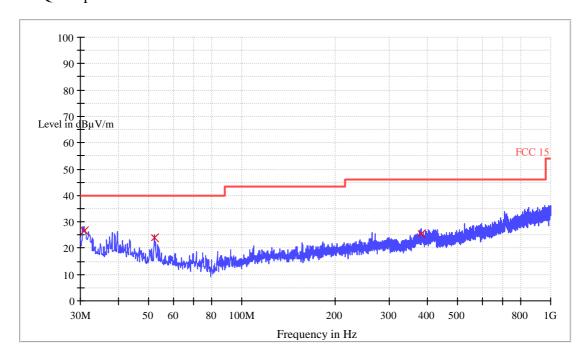
9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement

Vertical:

Peak scan Level $(dB\mu V/m)$

Quasi-peak measurement



QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.800000	26.6	120.000	٧	13.1	13.4	40.0
52.200000	23.9	120.000	٧	11.7	16.1	40.0
380.000000	25.6	120.000	٧	18.6	20.4	46.0

FCC ID: 2AJMC-1280025848821

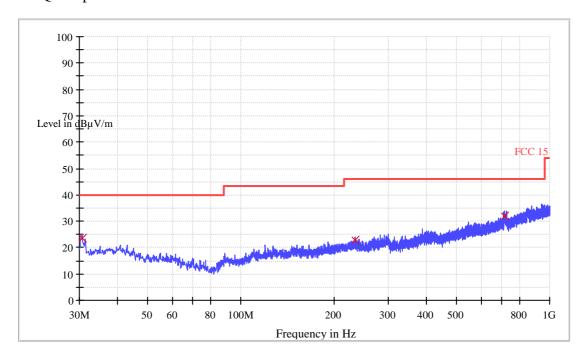


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Horizontal:

Peak scan Level $(dB\mu V/m)$

Quasi-peak measurement



QP

Frequency (MHz)	QuasiPeak (dΒμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.680000	23.6	120.000	Н	13.1	16.4	40.0
234.600000	22.8	120.000	Н	15.4	23.2	46.0
712.840000	32.1	120.000	Н	24.0	13.9	46.0

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1~25 GHz Radiated Emissions. Peak & Average Measurement

Polarization	Frequency	PK Net	AV Net	Correction	PK Limit	PK	AV Limit	AV Margin
	(MHz)	at 3m	at 3m	Factor	at 3m	Margin	at 3m	(dB)
		(dBµV/m)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(dBµV/m)	
Horizontal	6112.400	45.1	/	2.4	74.0	/	54.0	-8.9
Horizontal	7676.400	47.8	/	4.7	74.0	/	54.0	-6.2
Horizontal	9979.600	49.2	/	7.5	74.0	/	54.0	-4.8
Vertical	5864.000	48.8	/	1.9	74.0	/	54.0	-5.2
Vertical	7732.400	48.3	1	4.7	74.0	/	54.0	-5.7
Vertical	9880.000	49.4	1	7.2	74.0	/	54.0	-4.6

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Correction Factor

Correction Factor = Antenna Factor + Cable Loss – Preamplifier Factor.

Remark:

When Peak emission level was below AV limit, the AV emission level did not be recorded.

FCC ID: 2AJMC-1280025848821



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Test at Highest Channel (2.480 GHz) in transmitting status

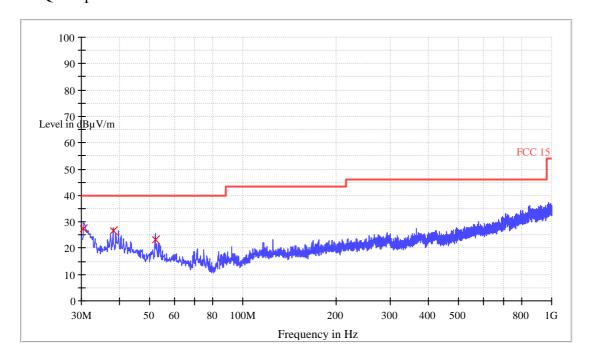
9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement

Vertical:

Peak scan Level $(dB\mu V/m)$

Quasi-peak measurement



QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.560000	27.5	120.000	V	13.0	12.5	40.0
38.000000	26.6	120.000	٧	15.4	13.4	40.0
52.120000	23.1	120.000	٧	11.8	16.9	40.0

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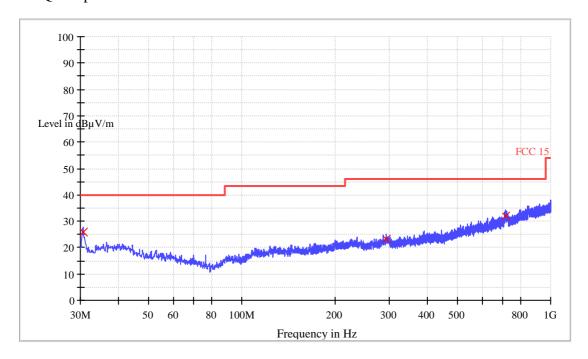


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Horizontal:

Peak scan Level $(dB\mu V/m)$

Quasi-peak measurement



QP

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.680000	25.8	120.000	Н	13.1	14.2	40.0
293.160000	23.0	120.000	Н	17.2	23.0	46.0
714.520000	32.0	120.000	Н	24.1	14.0	46.0

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1~25 GHz Radiated Emissions. Peak & Average Measurement

Polarization	Frequency	PK Net	AV Net	Correction	PK Limit	PK	AV Limit	AV Margin
	(MHz)	at 3m	at 3m	Factor	at 3m	Margin	at 3m	(dB)
		(dBµV/m)	(dBµV/m)	(dB)	(dBµV/m)	(dB)	(dBµV/m)	
Horizontal	5188.000	43.1	/	-0.2	74.0	/	54.0	-10.9
Horizontal	7614.000	48.0	/	4.6	74.0	/	54.0	-6.0
Horizontal	10949.600	48.7	/	8.1	74.0	/	54.0	-5.3
Vertical	4555.200	43.5	/	-0.5	74.0	/	54.0	-10.5
Vertical	7657.600	48.4	/	4.6	74.0	/	54.0	-5.6
Vertical	9807.600	50.1	/	6.9	74.0	/	54.0	-3.9

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Correction Factor

Correction Factor = Antenna Factor + Cable Loss - Preamplifier Factor.

Remark:

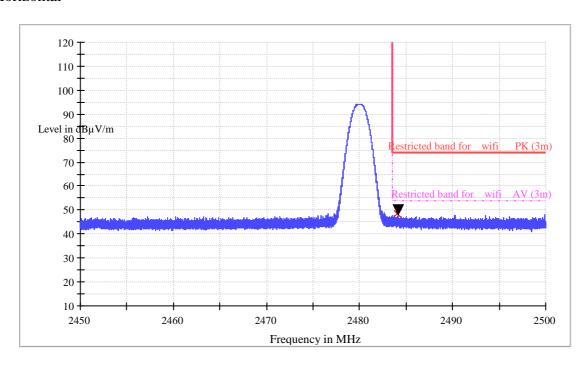
When Peak emission level was below AV limit, the AV emission level did not be recorded.

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Band Edge test Restricted Bands Horizontal



Result Table_Single

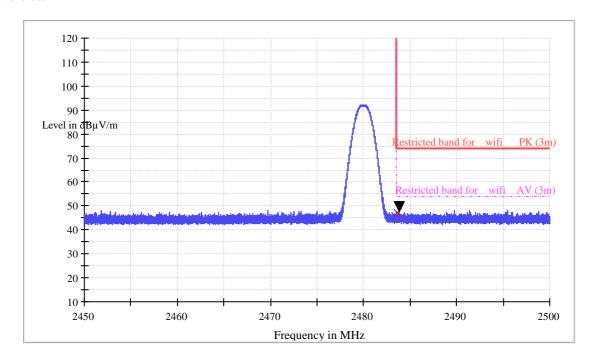
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Limit (dBµV/m)
2484.000000	48.3	1000.0	1000.000	150.0	Н	1.0	-2.1	54

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Vertical



Result Table Single

	_	_						
Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Limit (dBµV/m)
2483,600000	47.2	1000.0	1000.000	150.0	V	137.0	-2.1	54

As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

No any other emissions level which are attenuated less than 20dB below the limit.

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4.8 Band Edges Requirement

Test Requirement: FCC Part 15 C section 15.247

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. The radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance

with the peak conducted power limits.

Frequency Band: 2400 MHz to 2483.5 MHz

Test Method: ANSI C63.10: Clause 7.8.6 & 6.10

Test Status: Pre-test the EUT in continuous transmitting mode at the lowest

(2402 MHz), and highest (2480 MHz) channel and hopping mode

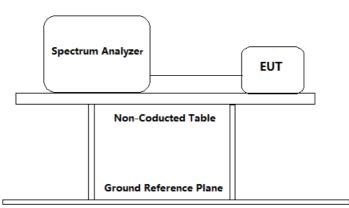
with different data packet. Compliance test in continuous

transmitting mode with EDR mode (3DH5) as the worst case was

found.

Test Configuration: For Band Edges Emission in Radiated mode, Please refer to clause

4.7



Test Procedure: For Band Edges Emission in Radiated mode, Please refer to clause 4.7

- 1. Removed the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
- 2. Set RBW of spectrum analyzer to 100 kHz and VBW of spectrum analyzer to 300 kHz with suitable frequency span including 100 kHz bandwidth from band edge.
- 3. Repeated until all the test status was investigated.
- 4. Reported the worst case.

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Test result with plots as follows:

For conducted mode:

The band edges was measured and recorded Result:

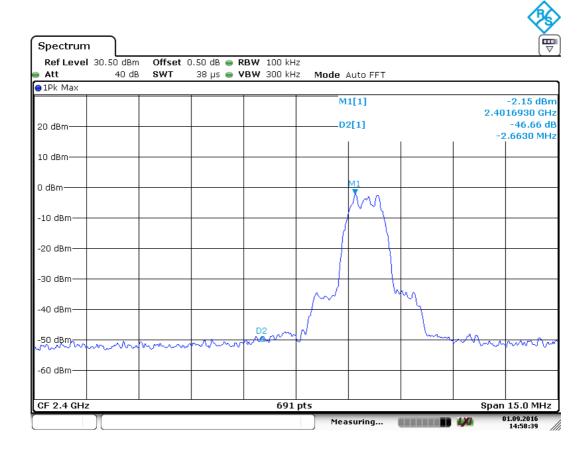
The Lower Edges attenuated more than 20dB.

The Upper Edges attenuated more than 20dB.

Result plot as follows:

EDR mode (3DH5):

Lowest channel: 2.402 GHz Continues transmit mode

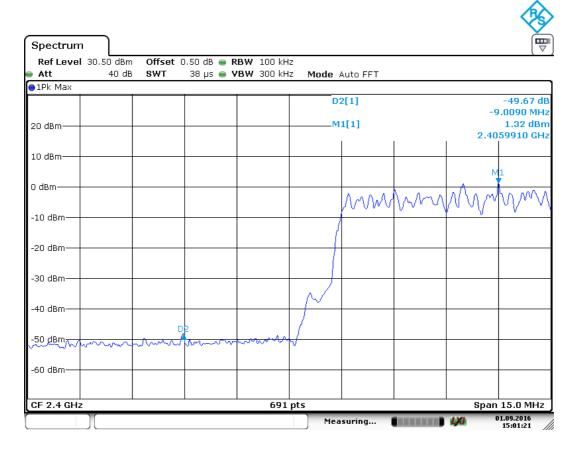


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Hopping mode

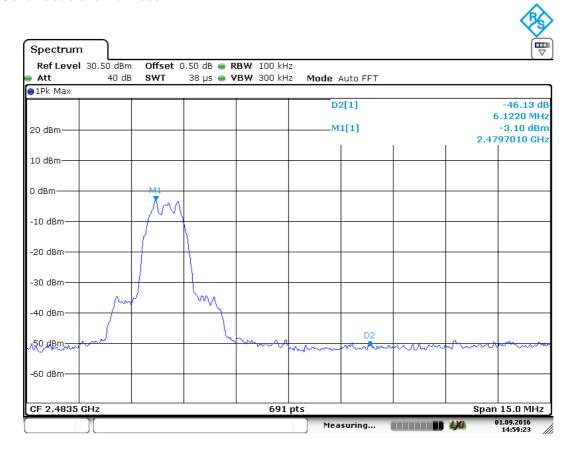


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Highest Channel: 2.480 GHz Continues transmit mode

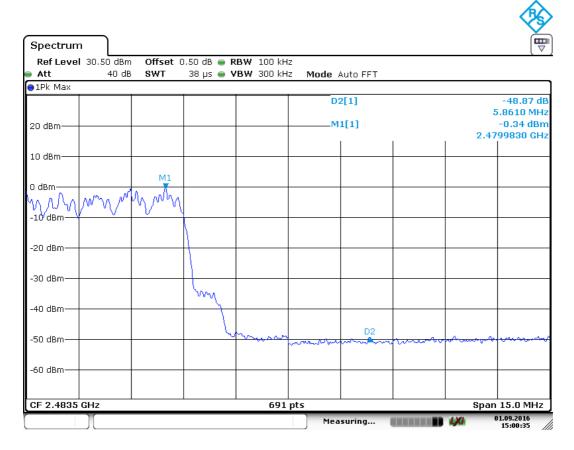


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Hopping mode



For radiated mode:

Please refer Clause 4.7 Radiated Emissions in Restricted Bands of this test report for more details. The resultant field strength in band edges meet the general radiated emission limit in section 15.209, which does not exceed 74 dB μ V/m (Peak Limit) and 54dB μ V/m (Average Limit).

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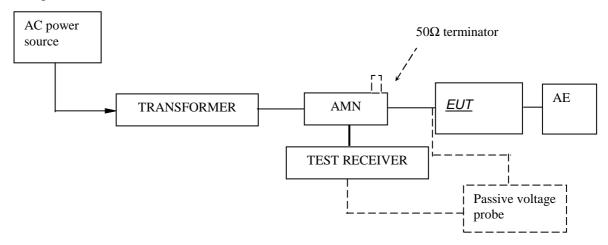


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4.9 Conducted Emission Test

Test result: Pass

Test Configuration:



Test Setup and Procedure

Test was performed according to ANSI C63.10 Clause 6.2. The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a 50Ω linear impedance Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.8m high non-metallic table above earthed ground plane (Ground Reference Plane). And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

The bandwidth of test receiver was set at 9 kHz. The frequency range from 150 kHz to 30MHz was checked.

Pre-test on all modes and only the worst case data had been report.

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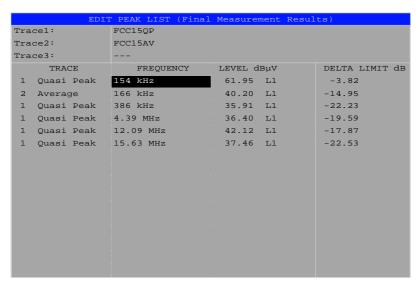


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Worst Case Test Data

At main terminal: Pass

Tested Wire: Live Operation Mode: transmitting 3DH5 mode at 2441MHz



Tested Wire: Neutral Operation Mode: transmitting 3DH5 mode at 2441MHz

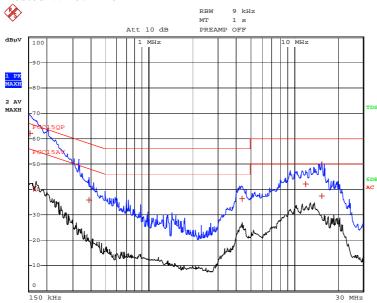
rac	cel:							
	2 •	FCC15QP FCC15AV						
		FCC15AV						
rac	ce3:							
	TRACE	FREQUENCY	LEVEL d	BμV	DELTA LIMIT de			
1	Quasi Peak	150 kHz	63.50	L1	-2.49			
2	Average	150 kHz	42.30	L1	-13.69			
1	Quasi Peak	370 kHz	38.48	L1	-20.01			
1	Quasi Peak		34.80	L1	-21.19			
1	Quasi Peak	12.182 MHz	39.51	L1	-20.48			
1	Quasi Peak	13.786 MHz	39.69	L1	-20.30			

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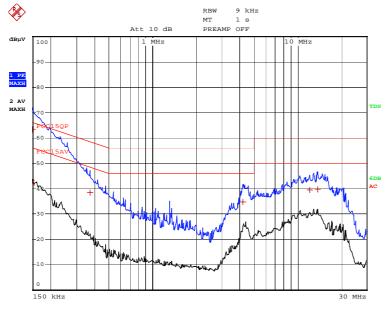


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Emission Curve Tested Wire: Live



Tested Wire: Neutral



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5.0 Test Equipment List

Radiated Emission

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (YYYY-MM-DD)	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m ³	ETS•LINDGRE N	2017/5/9	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	2017/6/7	1Y
EM031-03	Signal and Spectrum Analyzer (10 Hz~40 GHz)	R&S FSV40	R&S	2017/6/3	1Y
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	2017/6/6	1Y
EM061-03	TRILOG Super Broadband test Antenna (30 MHz-1.5 GHz) (TX)	VULB 9161	SCHWARZBECK	2017/6/6	1Y
EM033-01	TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX)	VULB 9163	SCHWARZBECK	2017/9/2	1Y
EM033-02	Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX)	R&S HF907	R&S	2017/6/6	1Y
EM033-03	High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX)	R&S SCU-26	R&S	2017/4/1	1Y
EM033-04	High Frequency Antenna & preamplifier (26 GHz-40 GHz)	R&S SCU-40	R&S	2017/4/1	1Y
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	N/A	R&S	2017/5/30	1Y
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	N/A	R&S	2017/5/30	1Y
EM033-04-02	Coaxial cable(18 GHz~40 GHz)	N/A	R&S	2017/4/1	1Y
EM031-01	Signal Generator (9 kHz~6 GHz)	SMB100A	R&S	2017/6/11	1Y
SZ180-10	Signal Generator (10MHz-40GHz)	68369B	Wiltron	2017/5/23	1Y
EM040-01	Band Reject/Notch Filter	WRHFV	Wainwright	N/A	1Y
EM040-02	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM040-03	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM022-03	2.45 GHz Filter	BRM50702	Micro-Tronics	2017/5/9	1Y
SA016-16	Programmable Temperature & Humidity Test Chamber	MHU-800LJ	TERCHY	2017/10/26	1Y
SA012-74	Digital Multimeter	FLUKE175	FLUKE	2017/10/12	1Y
EM010-01	Regulated DC Power supply	PAB-3003A	GUANHUA	N/A	1Y
SA040-22	Regulated DC Power supply	IT6721	ITECH	2017/9/22	1Y
EM084-06	Audio Analyzer	8903B	HP	2017/3/29	1Y
EM084-07	Modulation Analyzer	8901B	HP	2017/6/5	1Y

Conducted emission at the mains terminals

Equipment No.	Equipment	Model	Manufacturer	Cal. Due date	Calibration
Equipment No.	Ефириси	Wiodei	Manufacturer	(YYYY-MM-DD)	Interval
EM080-05	EMI receiver	ESCI	R&S	2017/7/27	1Y
EM006-05	LISN	ENV216	R&S	2017/9/28	1Y
EM006-06	LISN	ENV216	R&S	2017/9/16	1Y
EM006-06-01	Coaxial cable	/	R&S	2017/4/11	1Y
EM004-04	EMC shield Room	$8m\times3m\times3m$	Zhongyu	2017/1/25	1Y

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