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Report No.: SZEMO09060289401
Page: 1 of 40

TEST REPORT

Application No: SZEMO090602894RF
Applicant: Cyber Blue (HK) Limited
Manufacturer/ Factory: Ying Zhen Cyber Blue Industry Co., LTD
FCC ID: UFDBCK05B

Fundamental Carrier Frequency : 2.402GHz to 2.480GHz

Equipment Under Test (EUT):

Name: YD-V24 Mini Visor Speakerphone

Model: BT50823F/ BCK05B/ BCK05C/ BCK05D/ BCK05E/ BCK05F♣



Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.

Standards: FCC PART 15 Subpart C
ANSI C63.4 2003

Date of Receipt: 05 June 2009

Date of Test: 05 to 17 June 2009

Date of Issue: 18 June 2009

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 2 of this report for further detail.

Authorized Signature:

Robinson Lo
Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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2 Test Summary

Test	Test Requirement	Standard Paragraph	Result
Antenna Requirement	FCC PART 15	Section 15.247 (c)	PASS
Conducted Emission	FCC PART 15	Section 15.207	PASS
Occupied Bandwidth	FCC PART 15	Section 15.247 (a1)	PASS
Carrier Frequencies Separated	FCC PART 15	Section 15.247(a)(1)	PASS
Hopping Channel Number	FCC PART 15	Section 15.247(a)(1)(iii)	PASS
Dwell Time	FCC PART 15	Section 15.247(a)(1)(iii)	PASS
Pseudorandom Frequency Hopping Sequence	FCC PART 15	Section 15.247(a)(1)	PASS
Maximum Peak Output Power	FCC PART 15	Section 15.247(b)(1)	PASS
RF Exposure Compliance Requirement	FCC PART 15	15.247(b)(4)& TCB Exclusion List (7 July 2002)	PASS
Radiated Emission	FCC PART 15	Section 15.209 15.247(d)&15.205	PASS

Remark:

1. The EUT was tested installing fully charged batteries
2. Item No.: BT50823F/ BCK05B/ BCK05C/ BCK05D/ BCK05E/ BCK05F

Only the Item BCK05B was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above items.



3 Contents

	Page
.....	1
2 TEST SUMMARY	2
3 CONTENTS	3
4 GENERAL INFORMATION	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF THE E.U.T	4
4.3 DESCRIPTION OF SUPPORT UNITS	4
4.4 STANDARDS APPLICABLE FOR TESTING	4
4.5 TEST LOCATION	4
4.6 OTHER INFORMATION REQUESTED BY THE CUSTOMER	4
4.7 TEST FACILITY	5
5 EQUIPMENTS USED DURING TEST	6
6 TEST RESULTS	7
6.1 E.U.T. TEST CONDITIONS	7
6.2 ANTENNA REQUIREMENT	7
6.2.1 <i>Standard requirement</i>	7
6.2.2 <i>EUT Antenna</i>	7
6.3 CONDUCTED EMISSIONS AT MAINS TERMINALS 150 kHz TO 30MHz	8
6.4 OCCUPIED BANDWIDTH	11
6.5 CARRIER FREQUENCIES SEPARATED	14
6.6 HOPPING CHANNEL NUMBER	17
6.7 DWELL TIME	18
6.8 PSEUDORANDOM FREQUENCY HOPPING SEQUENCE	21
6.8.1 <i>Standard requirement</i>	21
6.8.2 <i>EUT Pseudorandom Frequency Hopping Sequence</i>	21
6.9 MAXIMUM PEAK OUTPUT POWER	22
6.10 RF EXPOSURE COMPLIANCE REQUIREMENT	25
6.10.1 <i>Standard requirement</i>	25
6.10.2 <i>EUT RF Exposure</i>	25
6.11 BAND EDGE	26
6.12 RADIATED EMISSIONS	31
6.12.1 <i>Radiated emission below 1GHz</i>	33
6.12.2 <i>Transmitter emission above 1GHz</i>	36-40



4 General Information

4.1 Client Information

Applicant: Cyber Blue (HK) Limited
Address of Applicant: Room A, 27/F., Park Avenue Tower, 5 Moreton Terrac, HK
Manufacturer/ Factory: Ying Zhen Cyber Blue Industry Co., LTD
Address of Manufacturer/ Factory: 34th floor, Block A, Galaxy Century Building, No.3069, South Caitian Road, Futian District, Shenzhen

4.2 General Description of the E.U.T

Product Name: YD-V24 Mini Visor Speakerphone
Model: BT50823F/ BCK05B/ BCK05C/ BCK05D/ BCK05E/ BCK05F
Number of Channels: 79 Channels
Channel Separation: 1 MHz
Type of Modulation: FHSS (Frequency Hopping Spread Spectrum); Adaptive Frequency Hopping (AFH) is used.
Technique of Modulation: GFSK
Dwell time: Per channel is less than 0.4s
Antenna Type: Integral
Antenna Gain: 0.5dBi
Power Supply: USB supply DC 5V

4.3 Description of Support Units

The EUT was tested independently

4.4 Standards Applicable for Testing

The customer requested FCC tests for the EUT.

The standard used was FCC PART 15 Subpart C: 2008. ANSI C63.4:2003.and DA 00-705.

4.5 Test Location

All tests were performed at:

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, District Shenzhen, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.6 Other Information Requested by the Customer

None.

4.7 Test Facility

- **VCCI**

The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2008. Valid until September 28, 2011

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, Aug. 04, 2005

- **Industry Canada (IC)**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

5 Equipments Used during Test

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	16-06-2008	15-06-2010
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	12-12-2008	11-12-2009
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2009	17-06-2010
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2008	11-08-2009
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	18-06-2009	17-06-2010
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0005	12-08-2008	11-08-2009
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	12-08-2008	11-08-2009
9	Pre-amplifier (1-18GHz)	Rohde & Schwarz	AFS42-00101 800-25-S-42	SEL0081	18-06-2009	17-06-2010
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33- 18002650-30- 8P-44	SEL0080	18-06-2009	17-06-2010
11	Band filter	Amindeon	82346	SEL0094	18-06-2009	17-06-2010
12	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15-06-2009	14-06-2010

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A
2	LISN	ETS-LINDGREN	3816/2	SEL0021	18-06-2009	17-06-2010
3	ISN	Rohde & Schwarz	ENY 22 1109	EMC0114	18-06-2009	17-06-2010
4	ISN	Rohde & Schwarz	ENY 41 1110	EMC0115	18-06-2009	17-06-2010
5	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	18-06-2009	17-06-2010
6	Coaxial Cable	SGS	N/A	SEL0024	18-06-2009	17-06-2010



6 Test Results

6.1 E.U.T. test conditions

Operating Environment:

Temperature: 24.0 °C

Humidity: 50 % RH

Atmospheric Pressure: 1010 mbar

Test frequencies: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 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

Test frequency is the lowest channel: 0 channel(2402MHz), middle channel: 38 channel(2441MHz) and highest channel: 78 channel(2480MHz)

6.2 Antenna Requirement

6.2.1 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 band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi 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 6dBi.

6.2.2 EUT Antenna

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.5dBi.

Test result: The unit does meet the FCC requirements.

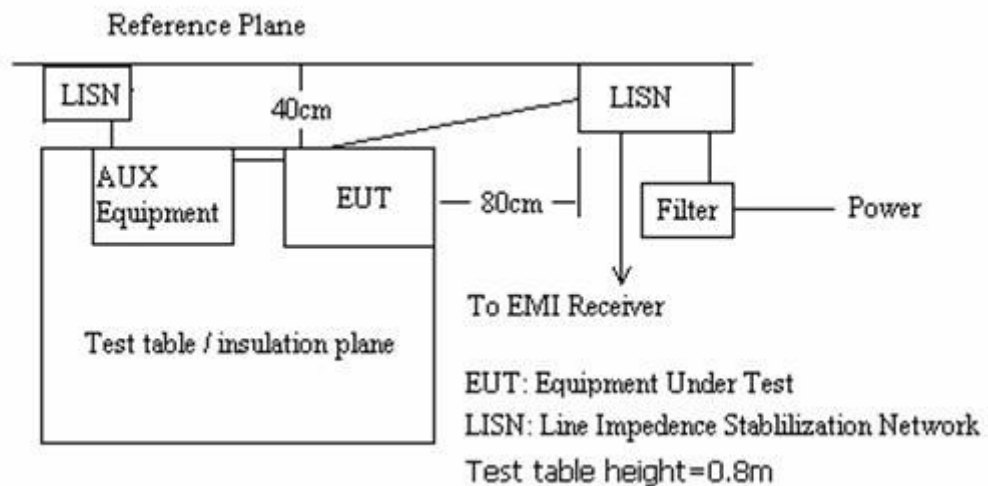
6.3 Conducted Emissions at Mains Terminals 150 kHz to 30MHz

Test Requirement: FCC Part 15.207
 Test Method: ANSI C63.4
 Frequency Range: 150KHz to 30MHz
 Detector: RBW=9KHz VBW=30KHz
 Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit
 EUT Operation: Pre-test the EUT in PC charging mode

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

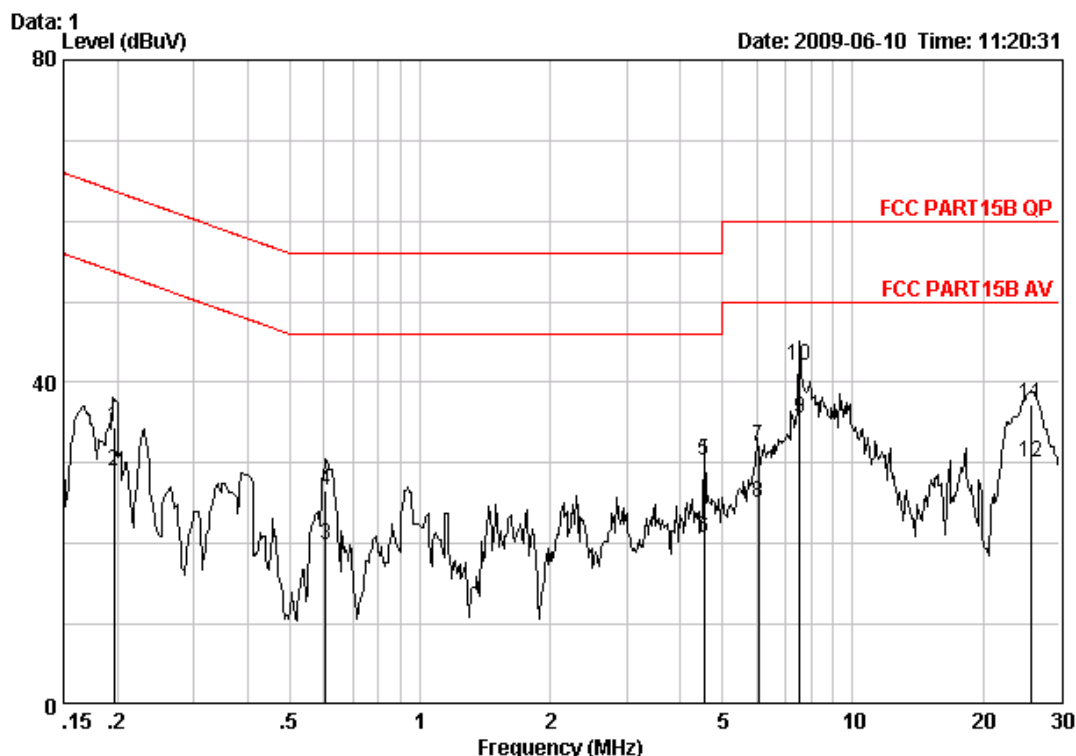
Plan View of Test Setup





PC charging mode

Live line:

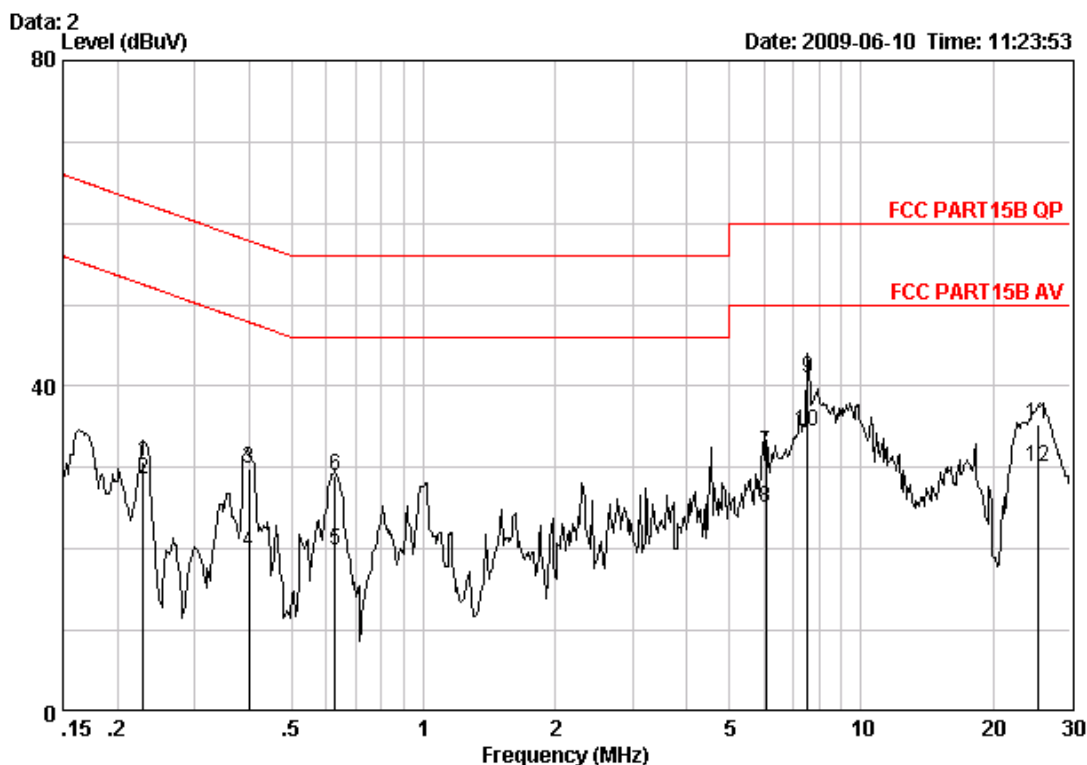


Site : Shielding Room
Condition : FCC PART15B QP CE LINE
EUT : HANDS-FREE SPEAKERPHONE
JOB : 2894RF
MODE : PC CONNECTION MODE WITH CHARGING MODE

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19654	0.04	-0.05	34.54	34.53	63.76	-29.22	QP
2	0.19654	0.04	-0.05	28.89	28.89	53.76	-24.87	AVERAGE
3	0.60431	0.06	-0.05	19.88	19.90	46.00	-26.10	AVERAGE
4	0.60431	0.06	-0.05	26.59	26.61	56.00	-29.39	QP
5	4.525	0.16	-0.10	30.22	30.28	56.00	-25.72	QP
6	4.525	0.16	-0.10	20.72	20.78	46.00	-25.22	AVERAGE
7	6.056	0.18	-0.13	31.90	31.95	50.00	-18.05	Average
8	6.056	0.18	-0.13	25.09	25.14	60.00	-34.86	QP
9 @	7.526	0.20	-0.17	35.41	35.44	50.00	-14.56	AVERAGE
10	7.526	0.20	-0.17	42.14	42.17	60.00	-17.83	QP
11	25.864	0.29	-0.80	37.85	37.35	60.00	-22.65	QP
12	25.864	0.29	-0.80	30.51	30.00	50.00	-20.00	AVERAGE



Neutral line:



Site : Shielding Room
Condition : FCC PART15B QP CE NEUTRAL
EUT : HANDS-FREE SPEAKERPHONE
JOB : 2894RF
MODE : PC CONNECTION MODE WITH CHARGING MODE

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.22918	0.04	-0.04	30.68	30.68	62.48	-31.80	QP
2	0.22918	0.04	-0.04	28.59	28.59	52.48	-23.89	AVERAGE
3	0.39974	0.06	-0.04	29.79	29.80	57.86	-28.06	QP
4	0.39974	0.06	-0.04	19.59	19.61	47.86	-28.25	AVERAGE
5	0.62715	0.06	-0.04	19.84	19.86	46.00	-26.14	AVERAGE
6	0.62715	0.06	-0.04	28.89	28.91	56.00	-27.09	QP
7	6.056	0.18	-0.15	31.74	31.78	60.00	-28.22	QP
8	6.056	0.18	-0.15	25.00	25.04	50.00	-24.96	Average
9	7.526	0.20	-0.20	40.99	40.99	60.00	-19.01	QP
10 @	7.526	0.20	-0.20	34.48	34.48	50.00	-15.52	AVERAGE
11	25.321	0.29	-1.03	36.10	35.35	60.00	-24.65	QP
12	25.321	0.29	-1.03	30.78	30.03	50.00	-19.97	AVERAGE

Remark: Level = Real Level + Cable loss + LISN factor

TEST RESULTS: The unit does meet the FCC requirements

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6.4 Occupied Bandwidth

Test Requirement:	FCC 15.247(a)								
Test Method:	ANSI C63.4 2003& DA 00-705								
Test Status:	Test in fixing operating frequency at lowest, Middle, highest channel.								
Test Procedure:									
The Transmitter output of EUT was connected to the spectrum analyzer. The 20 dB bandwidth of the fundamental frequency was measured. The setting of spectrum analyzer is as follows;									
	<table><tr><td>Equipment Mode</td><td>Spectrum Analyzer</td></tr><tr><td>Detector Function</td><td>Peak Mode</td></tr><tr><td>RBW</td><td>30KHz</td></tr><tr><td>VBW</td><td>100KHz</td></tr></table>	Equipment Mode	Spectrum Analyzer	Detector Function	Peak Mode	RBW	30KHz	VBW	100KHz
Equipment Mode	Spectrum Analyzer								
Detector Function	Peak Mode								
RBW	30KHz								
VBW	100KHz								

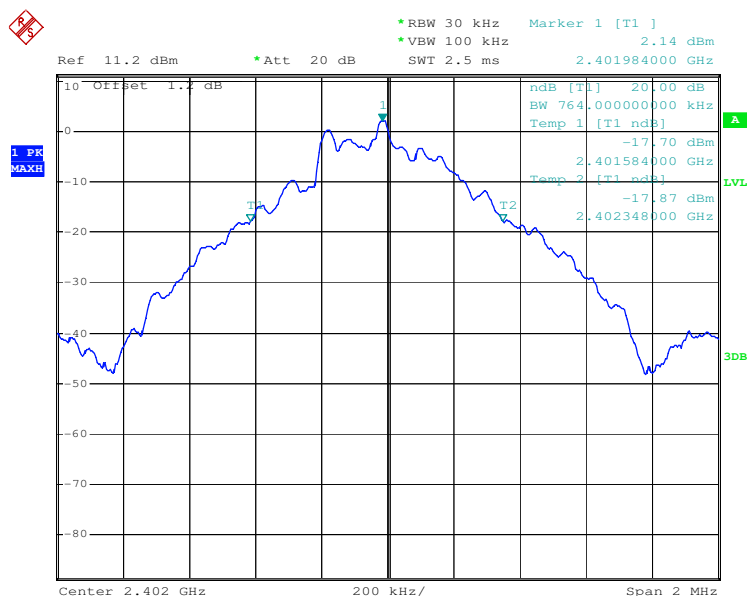
Test result:

Lowest channel	Middle channel	Highest channel
2.402GHz	2.441GHz	2.480GHz
764 KHz	800 KHz	812 KHz



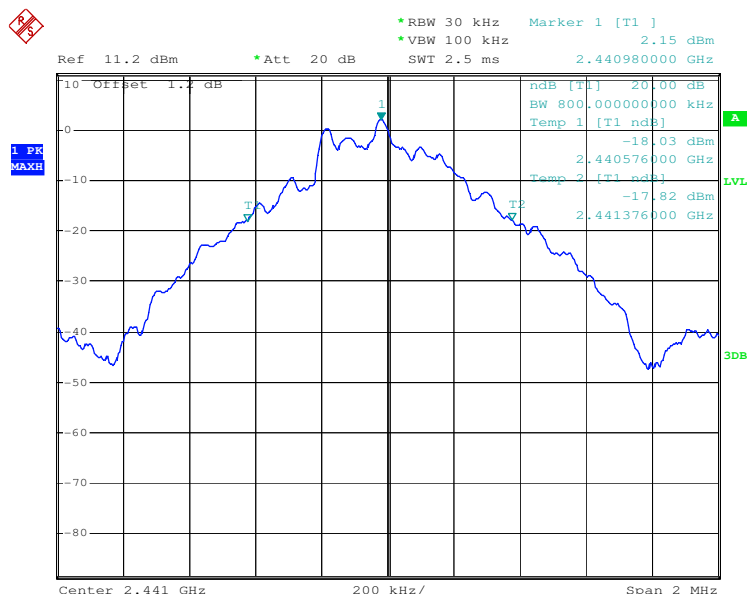
Result plot as follows:

1. Lowest Channel:



Date: 15.JUN.2009 13:13:13

2. Middle Channel:

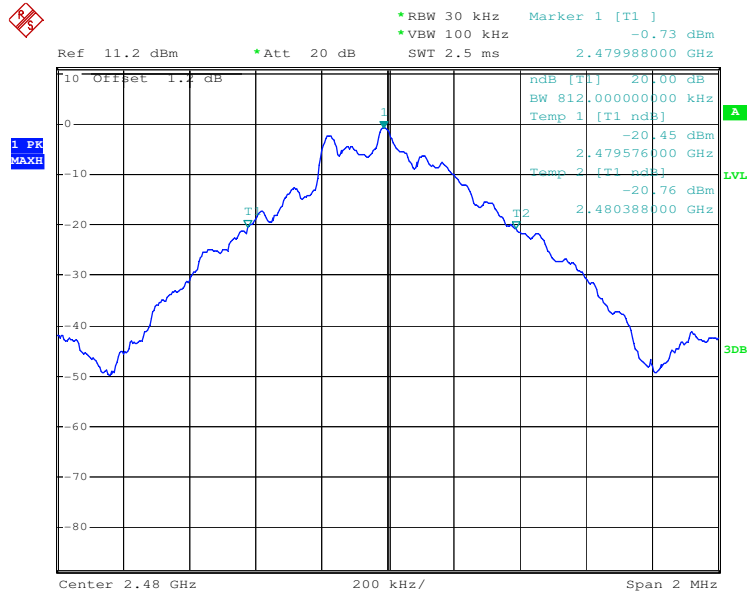


Date: 15.JUN.2009 13:30:39

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3. Highest Channel:



Date: 15.JUN.2009 16:04:40

Test result: The unit does meet the FCC requirements.



6.5 Carrier Frequencies Separated

Test Requirement: FCC 15.247(a)

Test Method: ANSI C63.4 2003& DA 00-705

Test requirements: Regulation 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 Status: Test in hopping transmitting operating mode.

Test Procedure:

1 Connect EUT antenna terminal to the spectrum analyzer with a low loss cable.

Equipment mode: Spectrum analyzer

Equipment Mode	Spectrum Analyzer
Detector Function	Peak Mode
RBW	100KHz
VBW	300KHz

2. By using the Max-Hold function record the separation of two adjacent channels.

3. Measure the frequency difference of these two adjacent channels by spectrum analyzer Marker function.

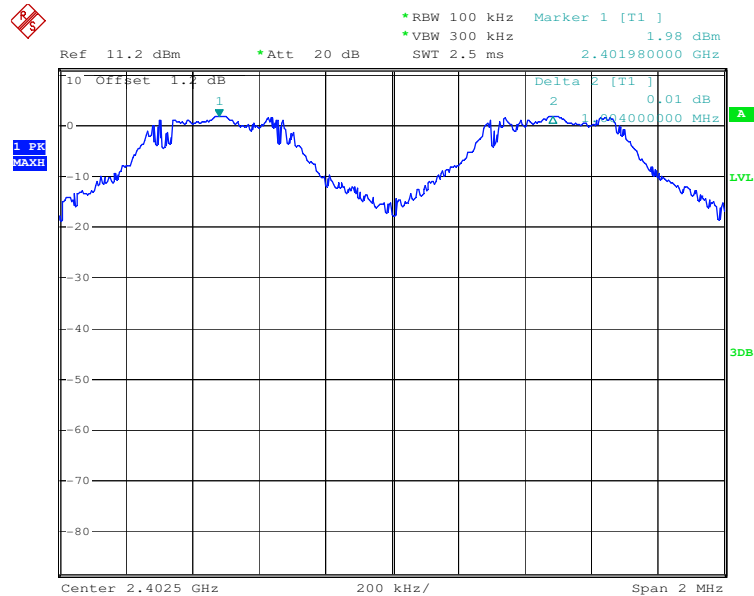
4. Repeat above procedures until all frequencies measured were complete.

Test result:

Lowest channel 2.402GHz	Middle channel 2.441GHz	Highest channel 2.480GHz
1.000MHz	1.008MHz	1.004MHz

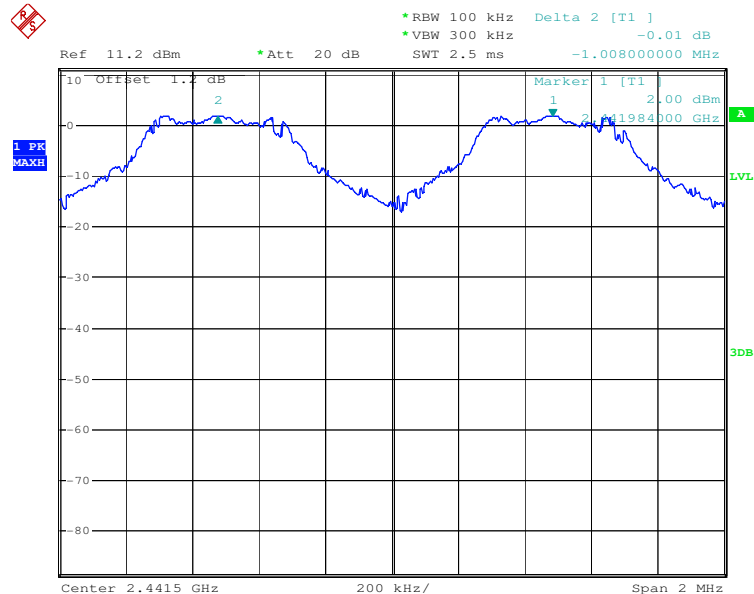


1. Lowest Channel:



Date: 15.JUN.2009 13:19:34

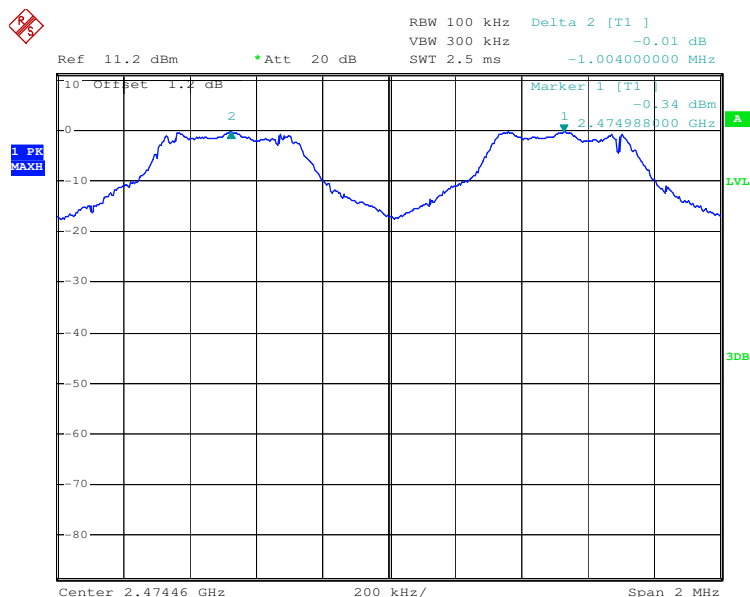
2. Middle Channel:



Date: 15.JUN.2009 13:34:04



3. Highest Channel:



Date: 18.JUN.2009 15:36:33

Test result: The unit does meet the FCC requirements.

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6.6 Hopping Channel Number

Test Requirement: FCC 15.247(a)

Test Method: ANSI C63.4:2003, 15.247 & DA 00-705

Requirements: Regulation 15.247 (a) (1) (iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

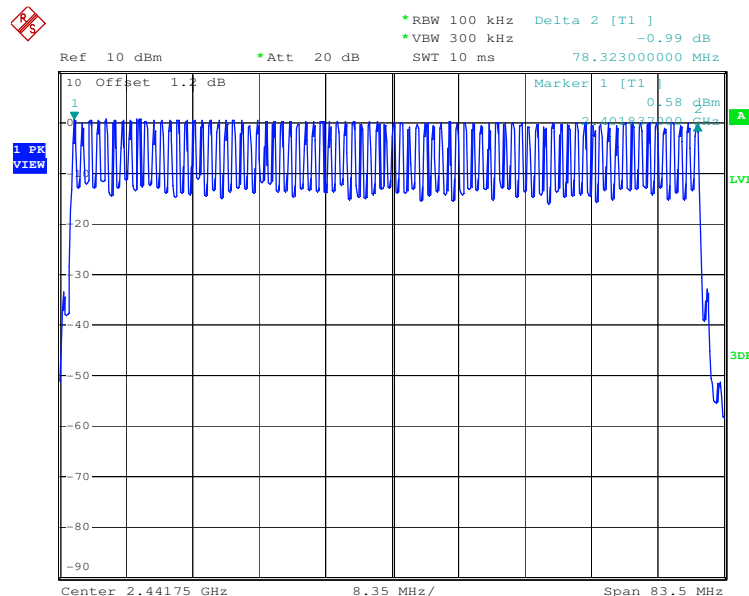
Test Status: Test in hopping transmitting operating mode.

Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 100 kHz. VBW = 300 kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: start frequency = 2400MHz. stop frequency = 2483.5MHz. Submit the test result graph.

Test result: Total channels are 79 channels.

Hopping channel numbers



Date: 16.JUN.2009 10:57:35

Test result: The unit does meet the FCC requirements.

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6.7 Dwell Time

Test Standards: FCC 15.247(a)
Test Method: ANSI C63.4 2003& DA 00-705
Test Requirements: Regulation 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 Status: Test in hopping transmitting operating mode.

Test Procedure:

1. Connect EUT antenna terminal to the spectrum analyzer with a low loss cable.
Equipment mode: spectrum analyzer, detector function: Peak
RBW=1MHz, VBW=1MHz, Span=zero.
2. Adjust the center frequency of spectrum analyzer on any frequency be measured.
3. Measure the Dwell Time by spectrum analyzer Marker function.
4. Repeat above procedures until all frequencies measured were complete.

Test Result:

The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

The lowest channel (2402MHz), middle channel (2441MHz), highest channel (2480MHz) as blow

DH1 time slot = $0.544(\text{ms}) \times (1600 / (2 \times 79)) \times 31.6 = 174.08 \text{ ms}$

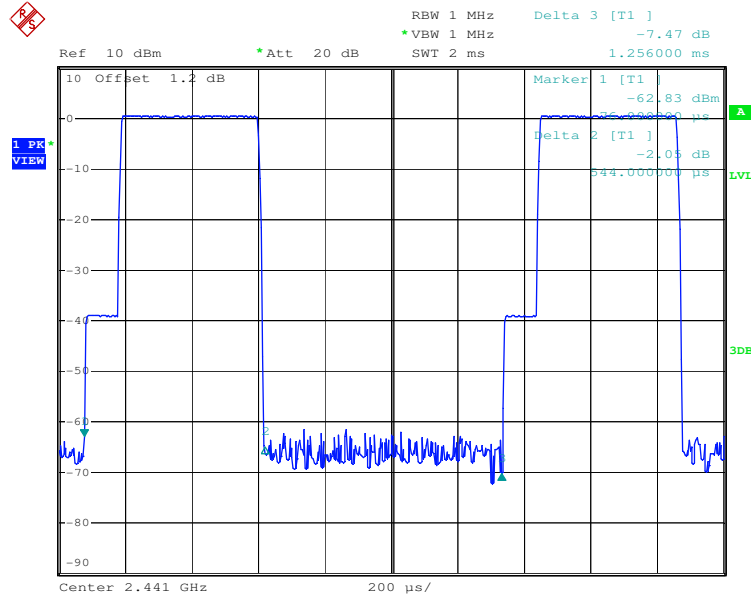
DH3 time slot = $1.81(\text{ms}) \times (1600 / (4 \times 79)) \times 31.6 = 289.6 \text{ ms}$

DH5 time slot = $3.10(\text{ms}) \times (1600 / (6 \times 79)) \times 31.6 = 330.6 \text{ ms}$

The unit does meet the FCC requirements.

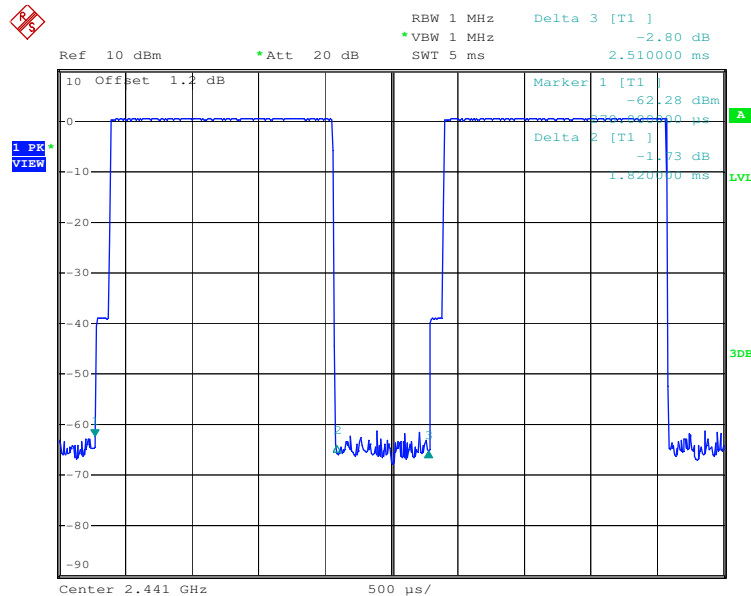
Please refer the graph as below:

DH1



Date: 16.JUN.2009 13:01:52

DH3

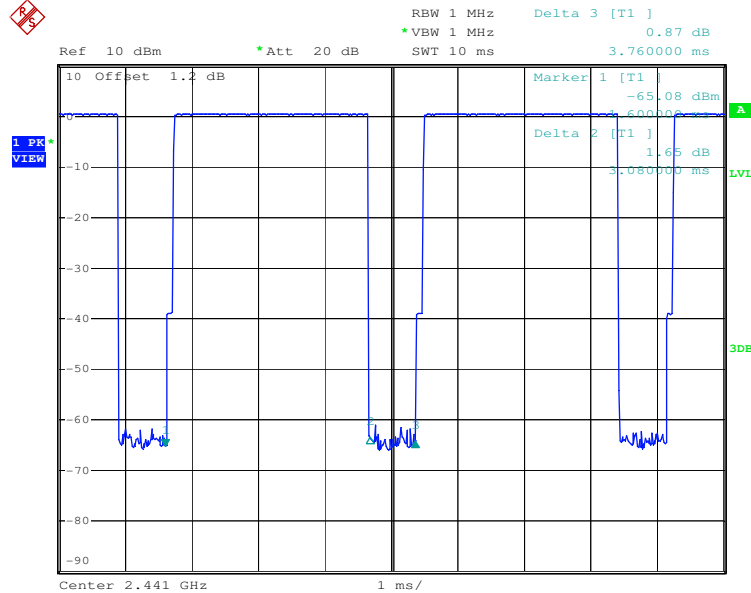


Date: 16.JUN.2009 13:00:53

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DH5



Date: 16.JUN.2009 13:00:00

6.8 Pseudorandom Frequency Hopping Sequence

6.8.1 Standard requirement

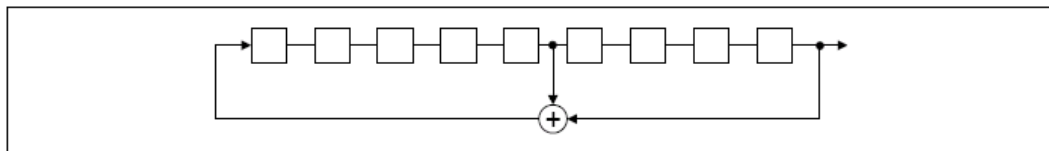
15.247(a)(1) requirement:

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. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom 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.

6.8.2 EUT Pseudorandom Frequency Hopping Sequence

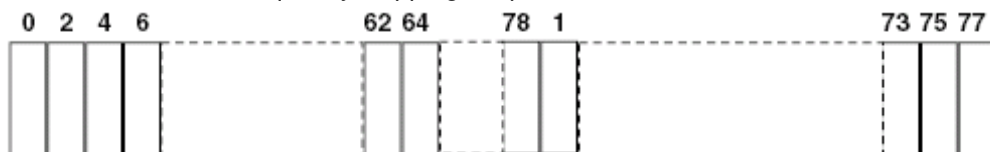
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each 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.

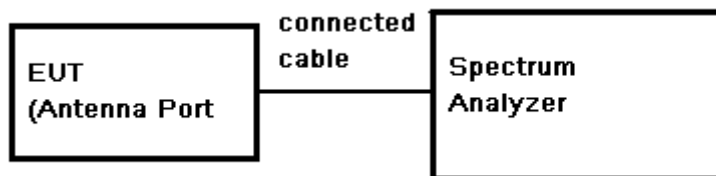
6.9 Maximum Peak Output Power

Test Requirement: FCC Part 15.247 & DA 00-705

Test Method: ANSI C63.4 & DA 00-705

Test Limit: Regulation 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.
Refer to the result "Hopping channel number" of this document. The 1 watt (30.0dBm) limit applies.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

Test Result:

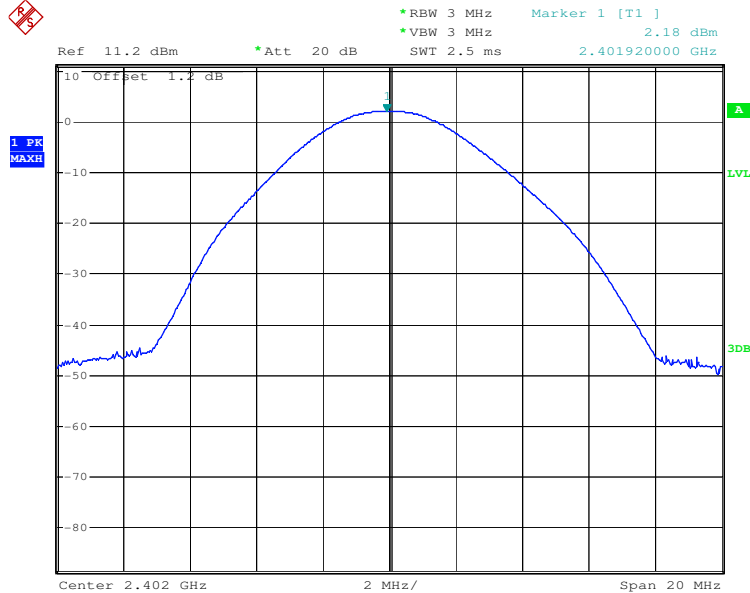
Lowest channel 2.402GHz	Middle channel 2.441GHz	Highest channel 2.480GHz
2.18	2.18	-0.55

Test result: The unit does meet the FCC requirements.



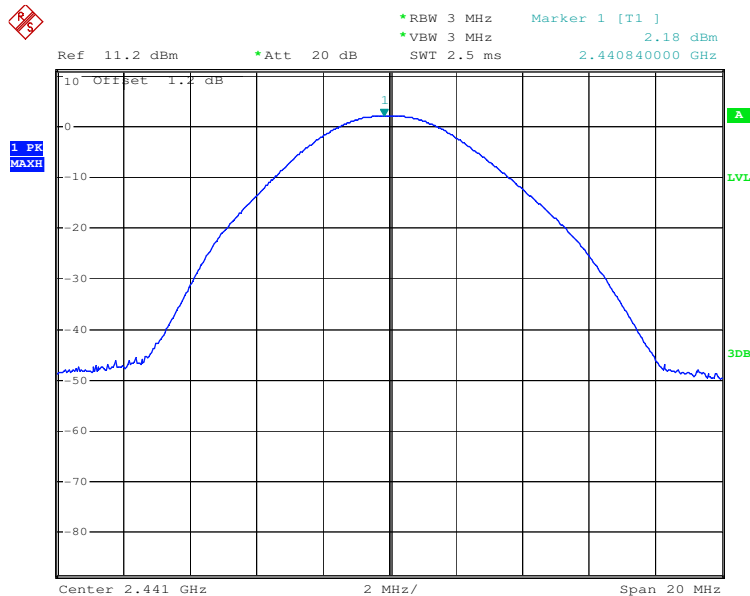
Test result plot as follows:

1. Lowest Channel:



Date: 15.JUN.2009 13:07:31

2. Middle Channel:

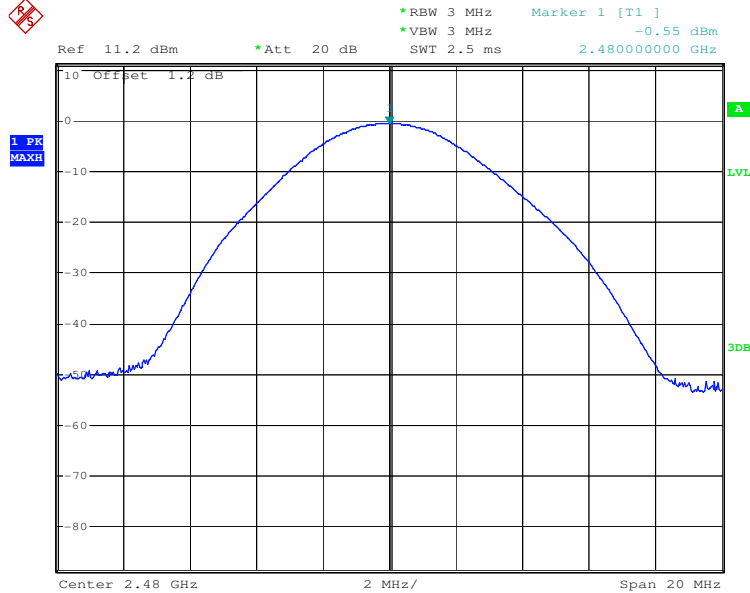


Date: 15.JUN.2009 13:26:16

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3. Highest Channel:



Date: 15.JUN.2009 15:59:44



6.10 RF Exposure Compliance Requirement

6.10.1 Standard requirement

15.247(b)(4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.10.2 EUT RF Exposure

The Max Conducted Peak Output Power is **2.18dBm(1.652mW)** in lowest and middle channel;

The best case gain of the antenna is 0.5dBi.

0.5dB logarithmic terms convert to numeric result is nearly 1.122

According to the formula, calculate the EIRP test result:

$$\text{EIRP} = P \times G = 1.652 \text{ mW} \times 1.122 = 1.854 \text{ mW} \text{ ①}$$

SAR requirement:

$$S = 60 / f(\text{GHz}) = 60 / 2.441 = 24.58 \text{ mW} \text{ ② ;}$$

$$\text{①} < \text{②}.$$

So the SAR report is not required.



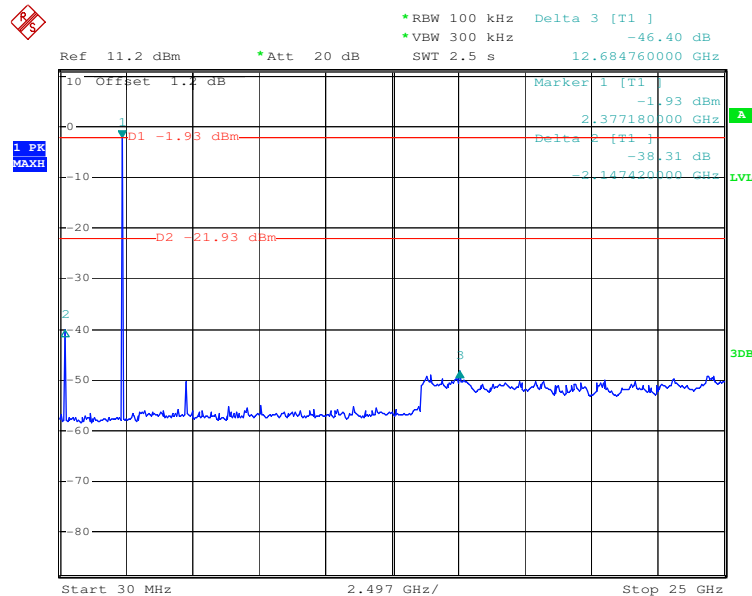
6.11 Band edge

Test Requirement:	FCC 15.247(d)
Test Method:	ANSI C63.4:2003 & DA 00-705
Test Status:	Test lowest channel, highest channel.
Test site:	The transmitter output is connected to spectrum analyzer. The resolution bandwidth is set to 100KHz. The video bandwidth is set to 300KHz.
Limit:	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.

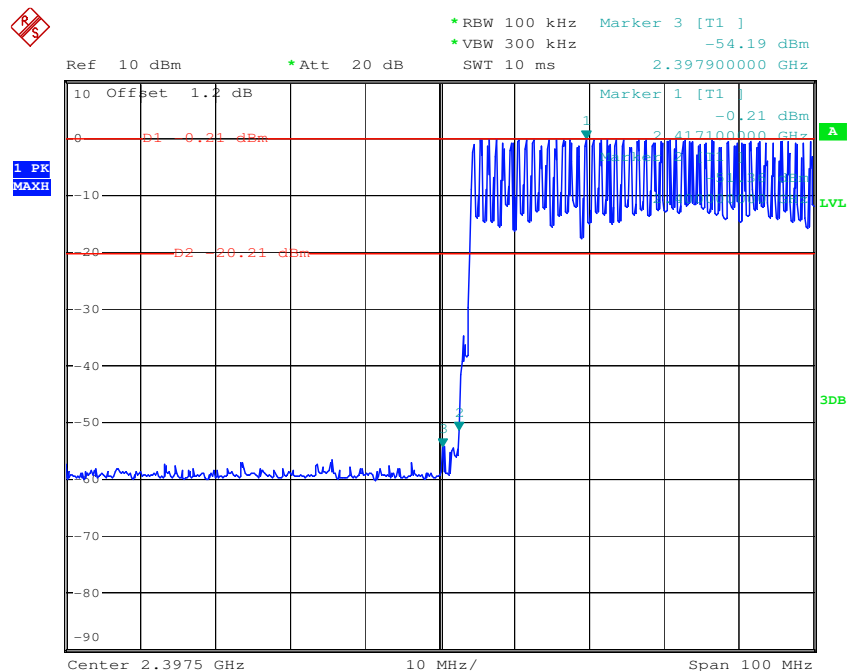


Out-OFF-band spurious emissions-conducted measurement:

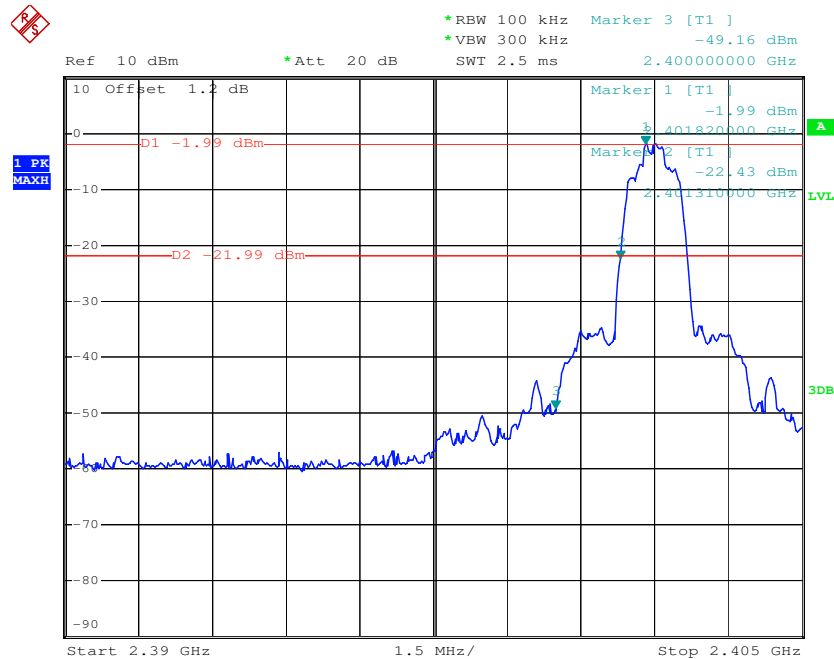
1. The lowest channel



Date: 15.JUN.2009 16:46:46

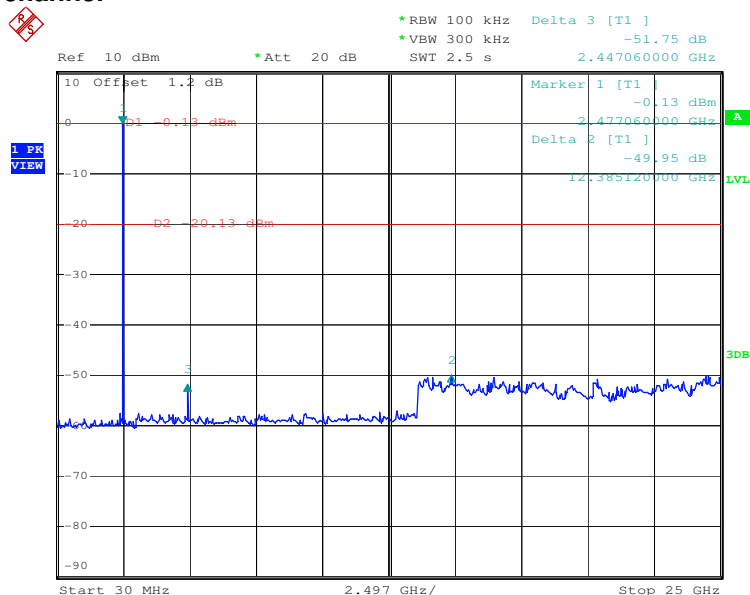


Date: 15.JUN.2009 17:47:48

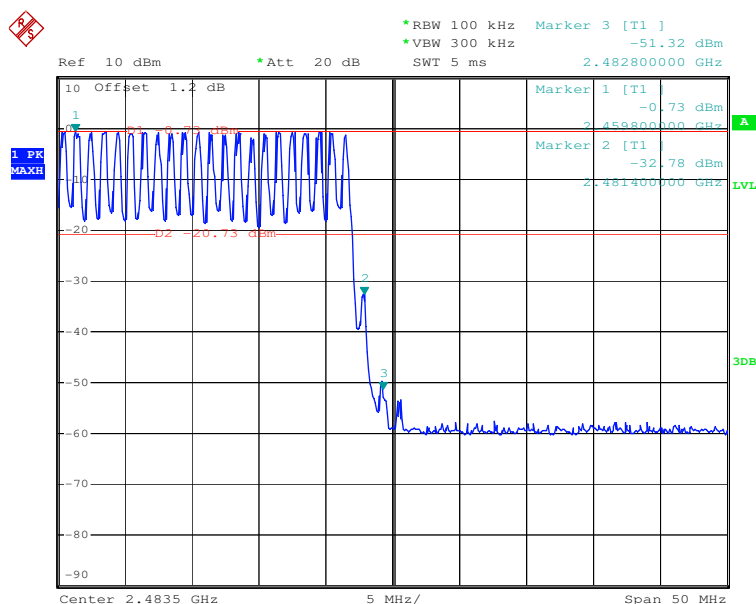


Date: 15.JUN.2009 17:36:50

3. The highest channel

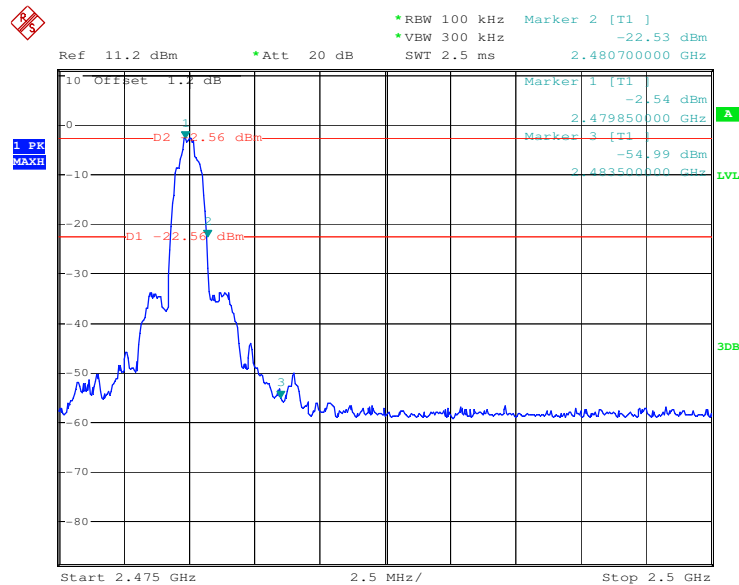


Date: 16.JUN.2009 12:43:02



Date: 15.JUN.2009 17:50:36

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Date: 15.JUN.2009 16:37:20



6.12 Radiated Emissions

Test Requirement:	15.247(d), 15.209 & 15.205
Test Method:	ANSI C63.4:2003 & DA 00-705
Test Status:	Test lowest channel, Middle, highest channel.
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Test Range	30MHz to 25GHz 30MHz-1000MHz: RBW=100KHz, VBW=300KHz Above 1GHz: PK RBW=1MHz, VBW=3MHz Average RBW=1MHz, VBW=10Hz
15.209 Limit:	40.0 dB μ V/m between 30MHz & 88MHz 43.5 dB μ V/m between 88MHz & 216MHz 46.0 dB μ V/m between 216MHz & 960MHz above 960MHz: Average value Limit 54.0 dB μ V/m Peak value Limit 74.0 dB μ V/m.

Test Configuration:

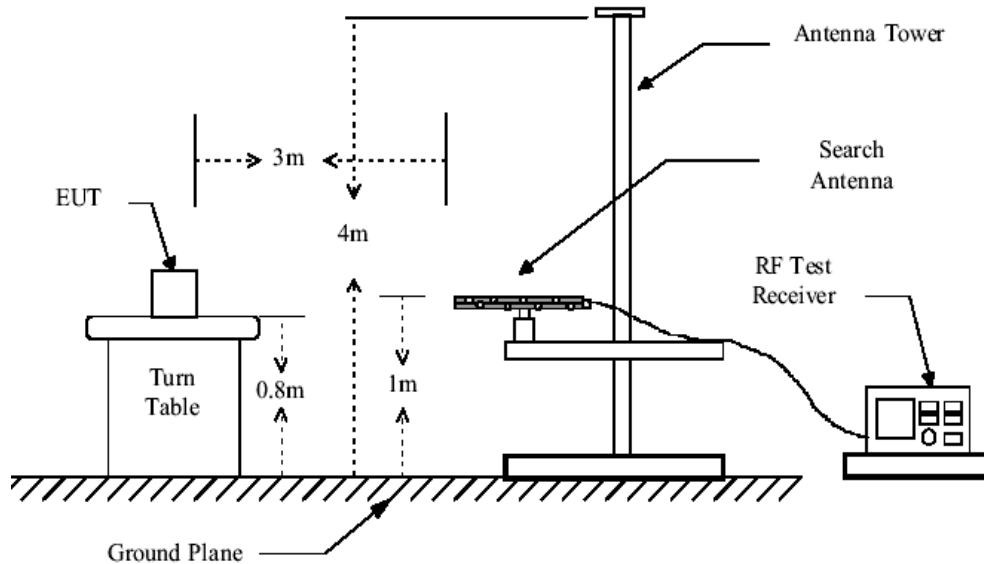


Figure1: 30MHz to 1GHz radiated emissions test configuration

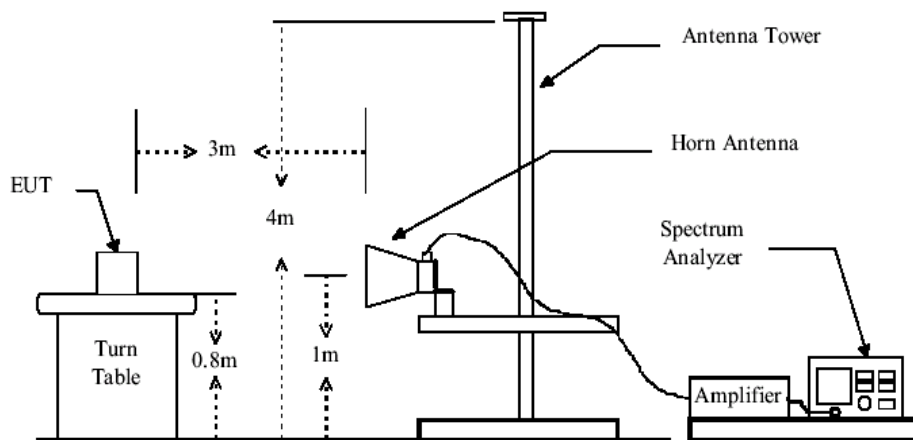


Figure 2: Above 1GHz radiated emissions test configuration

Test Procedure: The procedure used was ANSI Standard C63.4-2003. The receiver was scanned from 30MHz to 25GHz. 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.

**6.12.1 Radiated emission below 1GHz****Test in Bluetooth mode.****Vertical**

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
56.190	0.80	7.48	28.07	32.14	12.35	40.00	-27.65
125.060	1.27	7.80	27.64	33.37	14.80	43.50	-28.70
272.500	1.78	12.76	26.82	30.98	18.70	46.00	-27.30
358.830	2.09	15.62	27.15	30.76	21.32	46.00	-24.68
540.220	2.64	18.75	27.67	36.17	29.89	46.00	-16.11
935.980	3.64	23.30	26.43	37.06	37.57	46.00	-8.43

Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
110.510	1.23	8.57	27.77	34.79	16.82	43.50	-26.68
203.630	1.42	10.40	27.13	36.70	21.39	43.50	-22.11
264.740	1.74	12.61	26.85	34.87	22.37	46.00	-23.63
353.980	2.07	15.49	27.12	35.93	26.37	46.00	-19.63
568.350	2.67	19.05	27.65	38.05	32.12	46.00	-13.88
932.100	3.63	23.30	26.43	38.66	39.16	46.00	-6.84

**Test in charging mode****Vertical**

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
75.590	0.97	7.37	28.00	31.42	11.76	40.00	-28.24
125.060	1.27	7.80	27.64	34.96	16.39	43.50	-27.11
191.020	1.39	10.11	27.20	30.59	14.89	43.50	-28.61
256.980	1.71	12.45	26.88	30.60	17.88	46.00	-28.12
428.670	2.32	16.46	27.50	30.98	22.26	46.00	-23.74
564.470	2.67	19.02	27.65	33.06	27.10	46.00	-18.90

Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
86.260	1.10	8.36	27.97	29.68	11.17	40.00	-28.83
105.660	1.22	8.81	27.82	30.12	12.33	43.50	-31.17
219.150	1.51	11.18	27.05	31.17	16.81	46.00	-29.19
288.990	1.85	13.40	26.76	30.19	18.68	46.00	-27.32
419.940	2.29	16.38	27.47	31.16	22.36	46.00	-23.64
642.070	2.79	20.57	27.47	30.68	26.57	46.00	-19.43

**Test in Bluetooth and charging mode****Vertical**

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
86.260	1.10	8.36	27.97	29.68	11.17	40.00	-28.83
105.660	1.22	8.81	27.82	30.12	12.33	43.50	-31.17
219.150	1.51	11.18	27.05	31.17	16.81	46.00	-29.19
288.990	1.85	13.40	26.76	30.19	18.68	46.00	-27.32
419.940	2.29	16.38	27.47	31.16	22.36	46.00	-23.64
642.070	2.79	20.57	27.47	30.68	26.57	46.00	-19.43

Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
91.110	1.11	8.76	27.94	45.83	27.76	43.50	-15.74
141.550	1.30	8.24	27.51	46.94	28.97	43.50	-14.53
218.180	1.51	11.13	27.06	47.76	33.34	46.00	-12.66
260.860	1.73	12.53	26.87	45.45	32.84	46.00	-13.16
374.350	2.13	16.00	27.25	45.72	36.60	46.00	-9.40
555.740	2.66	18.95	27.66	45.26	39.21	46.00	-6.79



6.12.2 Transmitter emission above 1GHz

The lowest channel (2.402GHz)

Peak Measurement

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2394	4.97	32.24	37.65	60.08	59.64	74.00	-14.36	Vertical
2400	4.97	32.25	37.65	66.14	65.71	74.00	-8.29	Vertical
4804	6.61	34.04	38.18	65.99	68.46	74.00	-5.54	Vertical
7222	7.63	36.29	38.55	45.61	50.98	74.00	-23.02	Vertical
9687	8.58	37.06	39.16	44.91	51.39	74.00	-22.61	Vertical
11982	10.09	38.76	38.81	43.66	53.70	74.00	-20.30	Vertical
2394	4.97	32.24	37.65	60.16	59.72	74.00	-14.28	Horizontal
2400	4.97	32.25	37.65	64.51	64.08	74.00	-9.92	Horizontal
4774	6.60	34.04	38.16	60.55	63.03	74.00	-10.97	Horizontal
7239	7.62	36.25	38.54	44.04	49.37	74.00	-24.63	Horizontal
9619	8.53	36.99	39.13	44.65	51.04	74.00	-22.96	Horizontal
12169	10.16	38.91	38.60	44.59	55.06	74.00	-18.94	Horizontal

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamplifier factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	Polarization
2394	4.97	32.24	37.65	40.40	39.96	54.00	-14.04	Vertical
2400	4.97	32.25	37.65	44.85	44.42	54.00	-9.58	Vertical
4774	6.60	34.04	38.16	41.08	43.56	54.00	-10.44	Vertical
7222	7.63	36.29	38.55	32.08	37.45	54.00	-16.55	Vertical
9619	8.53	36.99	39.13	32.97	39.36	54.00	-14.64	Vertical
12067	10.12	38.84	38.75	31.59	41.80	54.00	-12.20	Vertical
2394	4.97	32.24	37.65	39.30	38.86	54.00	-15.14	Horizontal
2400	4.97	32.25	37.65	46.75	46.32	54.00	-7.68	Horizontal
4774	6.60	34.04	38.16	40.72	43.20	54.00	-10.80	Horizontal
7222	7.63	36.29	38.55	32.02	37.39	54.00	-16.61	Horizontal
9619	8.53	36.99	39.13	32.91	39.30	54.00	-14.70	Horizontal
12067	10.12	38.84	38.75	31.60	41.81	54.00	-12.19	Horizontal

The middle channel (2.441GHz)
Peak Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Polarization
2411	5.08	32.29	37.64	61.70	61.43	74.00	-12.57	Vertical
2496	5.10	32.30	37.64	55.69	55.45	74.00	-18.55	Vertical
4876	6.64	34.02	38.23	50.81	53.24	74.00	-20.76	Vertical
7443	7.52	35.91	38.47	43.37	48.33	74.00	-25.67	Vertical
9976	8.82	37.28	39.29	44.93	51.74	74.00	-22.26	Vertical
12611	10.48	39.12	38.07	43.48	55.01	74.00	-18.99	Vertical
2411	4.99	32.25	37.65	51.19	50.78	74.00	-23.22	Horizontal
2496	5.10	32.30	37.64	45.73	45.49	74.00	-28.51	Horizontal
4859	6.63	34.03	38.22	57.11	59.55	74.00	-14.45	Horizontal
7239	7.62	36.25	38.54	44.67	50.00	74.00	-24.00	Horizontal
9738	8.62	37.08	39.18	45.43	51.95	74.00	-22.05	Horizontal
12322	10.20	38.99	38.41	44.23	55.01	74.00	-18.99	Horizontal

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Polarization
2411	4.99	32.25	37.65	35.16	34.75	54.00	-19.25	Vertical
2496	5.10	32.30	37.64	33.62	33.38	54.00	-20.62	Vertical
4842	6.62	34.03	38.21	31.95	34.39	54.00	-19.61	Vertical
7307	7.59	36.14	38.52	31.90	37.11	54.00	-16.89	Vertical
10010	8.85	37.30	39.30	32.53	39.38	54.00	-14.62	Vertical
12509	10.29	39.10	38.21	31.45	42.63	54.00	-11.37	Vertical
2411	4.99	32.25	37.65	32.80	32.39	54.00	-21.61	Horizontal
2496	5.10	32.30	37.64	33.87	33.63	54.00	-20.37	Horizontal
4876	6.64	34.02	38.23	36.64	39.07	54.00	-14.93	Horizontal
7273	7.61	36.21	38.53	32.14	37.43	54.00	-16.57	Horizontal
9738	8.62	37.08	39.18	33.21	39.73	54.00	-14.27	Horizontal
12220	10.17	38.93	38.56	31.69	42.23	54.00	-11.77	Horizontal

**The highest channel (2.480GHz)**

Peak Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Polarization
2483.5	5.08	32.29	37.64	59.55	59.28	74.00	-14.72	Vertical
2496	5.10	32.30	37.64	54.70	54.46	74.00	-19.54	Vertical
4944	6.67	34.01	38.29	45.59	47.98	74.00	-26.02	Vertical
7358	7.57	36.06	38.50	44.06	49.19	74.00	-24.81	Vertical
9976	8.82	37.28	39.29	45.05	51.86	74.00	-22.14	Vertical
12424	10.24	39.06	38.31	43.77	54.76	74.00	-19.24	Vertical
2483.5	5.08	32.29	37.64	62.47	62.20	74.00	-11.80	Horizontal
2496	5.10	32.30	37.64	55.99	55.75	74.00	-18.25	Horizontal
4944	6.67	34.01	38.29	45.57	47.96	74.00	-26.04	Horizontal
7392	7.55	35.99	38.49	43.96	49.01	74.00	-24.99	Horizontal
10010	8.85	37.30	39.30	44.97	51.82	74.00	-22.18	Horizontal
12509	10.29	39.10	38.21	43.56	54.74	74.00	-19.26	Horizontal

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	Polarization
2483.5	5.08	32.29	37.64	46.73	46.46	54.00	-7.54	Vertical
2496	5.10	32.30	37.64	40.98	40.74	54.00	-13.26	Vertical
4944	6.67	34.01	38.29	32.84	35.23	54.00	-18.77	Vertical
7443	7.52	35.91	38.47	31.13	36.09	54.00	-17.91	Vertical
9925	8.77	37.23	39.26	32.43	39.17	54.00	-14.83	Vertical
12560	10.39	39.11	38.11	30.92	42.31	54.00	-11.69	Vertical
2483.5	5.08	32.29	37.64	44.66	44.39	54.00	-9.61	Horizontal
2496	5.10	32.30	37.64	39.60	39.36	54.00	-14.64	Horizontal
4944	6.67	34.01	38.29	32.79	35.18	54.00	-18.82	Horizontal
7358	7.57	36.06	38.50	31.91	37.04	54.00	-16.96	Horizontal
9976	8.82	37.28	39.29	32.44	39.25	54.00	-14.75	Horizontal
12509	10.29	39.10	38.21	31.44	42.62	54.00	-11.38	Horizontal



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 + Antenna Factor + Cable Factor – Preamplifier Factor.

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

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

Remark:

- 1). The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.
- 2) Pre-test the Bluetooth normal mode
- 3) For this intentional radiator operates below 25 GHz. The spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the forth harmonic of this intentional radiator, the disturbance is very low.

**Section 15.205 Restricted bands of operation.**

(a) Except as shown in paragraph (d) of this section. only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	
13.36 - 13.41	322 - 335.4		

The result: The unit does meet the FCC requirements