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<i>Test Report No.:</i>					
Auftraggeber: <i>Client:</i>		Temco Japan Co., Ltd 2-21-4, Honan, Suginami-Ku, Tokyo 168-0062, Japan			
Gegenstand der Prüfung: Retail Temple Transducer Bluetooth headset <i>Test item:</i>					
Bezeichnung: <i>Identification:</i>		HG40SAN-TBT		Serien-Nr.: n.a. <i>Serial No.:</i>	
Wareneingangs-Nr.: <i>Receipt No.:</i>		163025159		Eingangsdatum: 2006-11-06 <i>Date of receipt:</i>	
Prüfart: <i>Testing location:</i>		Shenzhen Academy of Metrology and Quality Inspection Bldg. of Academy of Metrology and Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, P. R. China			
Prüfgrundlage: <i>Test specification:</i>		FCC CFR47 Part 15: Subpart C Section 15.247 FCC CFR47 Part 15: Subpart C Section 15.207 FCC CFR47 Part 15: Subpart C Section 15.209			
Prüfergebnis: <i>Test Result:</i>		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). The test item passed the test specification(s).			
Prüflaboratorium <i>Testing Laboratory</i>		TÜV Rheinland (Shenzhen) Co., Ltd.			
geprüft/ tested by:			kontrolliert/ reviewed by:		
 2006-12-29 Sam Lin/ Engineer			 2007-03-30 Shawn Peng/ Senior Project Manager		
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>
Sonstiges/ Other Aspects:					
Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet Abbreviations: P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>					

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TEST SUMMARY

5.1 ANTENNA REQUIREMENT

RESULT: Passed

5.2 PEAK OUTPUT POWER

RESULT: Passed

5.3 20dB BANDWIDTH

RESULT: Passed

5.4 100kHz BANDWIDTH OF FREQUENCY BAND EDGE

RESULT: Passed

5.5 SPURIOUS EMISSION

RESULT: Passed

5.6 FREQUENCY SEPARATION

RESULT: Passed

5.7 NUMBER OF HOPPING FREQUENCY

RESULT: Passed

5.8 TIME OF OCCUPANCY

RESULT: Passed

5.9 PEAK POWER DENSITY

RESULT: Passed

5.10 CONDUCTED EMISSIONS

RESULT: Passed

5.11 RADIATED EMISSIONS

RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

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

Appendix 1: Frequency hopping information

2. Test Sites

2.1 Test Facilities

Shenzhen Academy of Metrology and Quality Inspection Co., Ltd.

Bldg. of Academy of Metrology and Quality Inspection
Longzhu Road, Nanshan District
Shenzhen, P. R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Conducted emissions				
EMI Test Receiver	Rohde & Schwarz	ESCS30	830245/009	2007-07-25
AMN	Rohde & Schwarz	ESH2-Z5	100002	2007-07-25
Limiter	Rohde & Schwarz	ESH3-Z2	357.8810.52	2007-07-25
AMN	Rohde & Schwarz	ESH3-Z5	828304/014	2007-07-25
Spurious emission and Radiated emission				
EMI Test Receiver	Rohde & Schwarz	ESI26	838786/013	2007-07-25
Bilog Antenna	Chase	CBL6112B	2591	2007-07-25
Antenna	Schwarzbeck	VUBA9117	115	2009-07-25
Horn Antenna	Rohde & Schwarz	HF906	100013	2007-07-25
3m chamber	Albatross Projects	9X6X6	----	2008-03-21
Radio Test Suite				
EMI Test Receiver	Rohde & Schwarz	ESCI	100178	2007-10-16

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

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

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen Academy of Metrology and Quality Inspection Co., Ltd. test facility located at Bldg. of Academy of Metrology and Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is headset that is based on Bluetooth technology. This headset uses the bone conduction technology for right and left speaker as stereo. Both ears are completely freed and you can have natural conversations without disconnecting headset.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	Retail Temple Transducer Bluetooth headset
Type Designation:	HG40SAN-TBT
FCC ID	OQBHG40SAN-TBT

Table 3: Technical Specification of EUT

Technical Specification	Value
Operating Frequency band	2402 – 2480 MHz
Channel separation	1MHz
Extreme Temperature Range	-5°C to +50°C
Operation Voltage	DC 3.7V via re-chargeable Li-ion battery
Modulation	Frequency Hopping Spread Spectrum
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	2.0dB
RF Output Power	0.000566W (-2.47dBm)
External Ports	DC Charging Port

Table 4: Rating of Technical Data of Adapter

Technical Specification	Value
AC/DC Adapter Model:	KSCFB0600030W1US
Manufacturer:	KuanTech (Shenzhen) Co., LTD.
Rating Input Voltage:	AC 100V – 240V 50/60Hz
Rating Output Voltage:	DC 6.0V
Rating Output Current	300mA

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Charging
- C. Standby
- D. Receiving
- E. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- Circuit Diagram
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

Test software is BlueSuite Version 1.22. This is a program that controls the on-chip built-in self-test software for RF testing.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

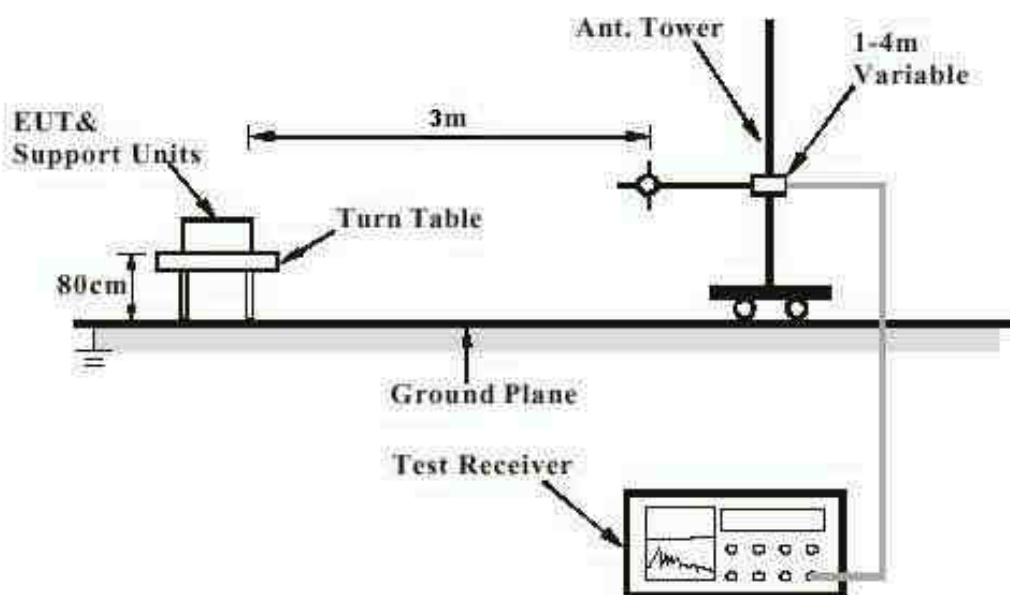


Diagram of Measurement Equipment Configuration for Conduction Measurement

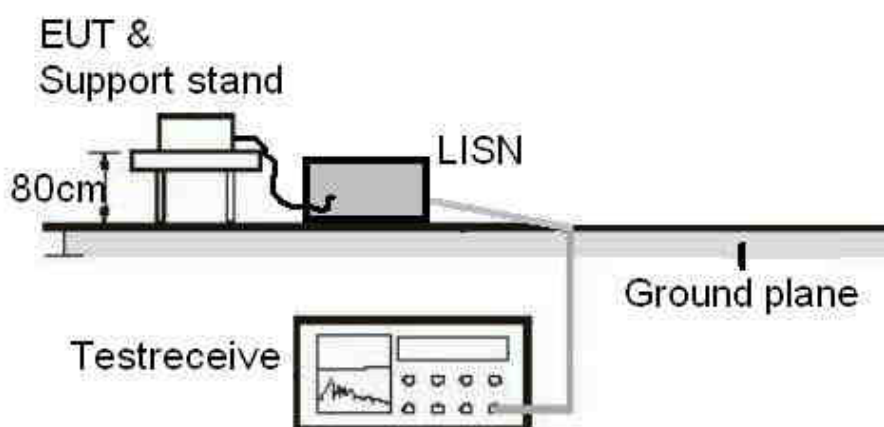
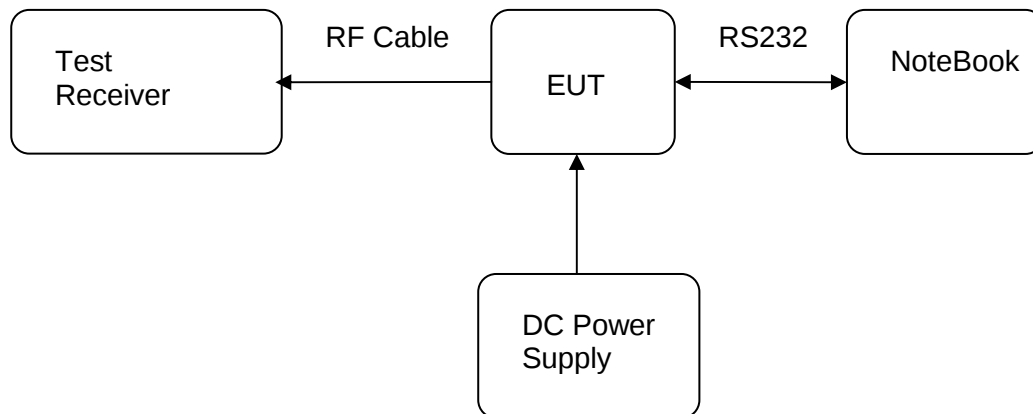


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results of Transmitter

5.1 Antenna Requirement

RESULT:

Passed

Test date	:	2006-12-11
Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 2 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply the provision.

Refer to EUT photo for details.

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5.2 Peak Output Power

RESULT:

Passed

Test date : 2006-12-12
Test standard : FCC Part 15.247(b)(1)
Basic standard : ANSI C63.4: 2003
Limit : 1 Watt
Kind of test site : Shielded room

Test setup

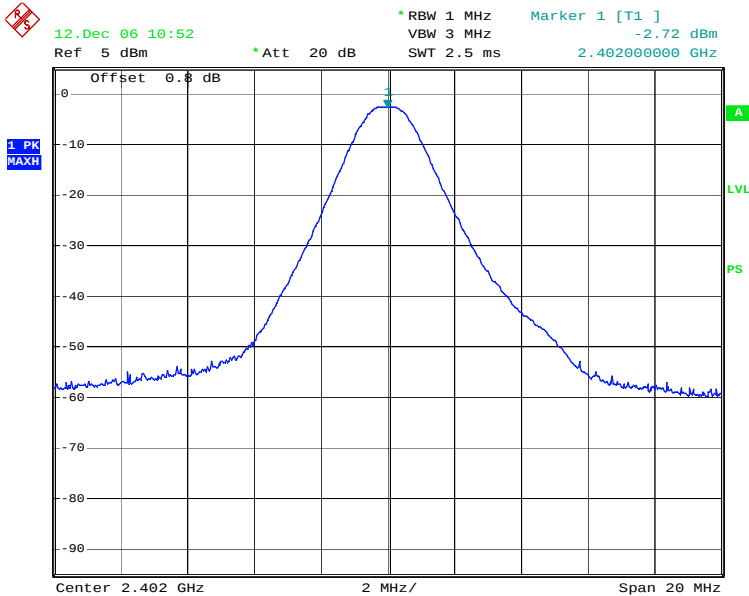
Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 23°C
Relative humidity : 51.1%
Atmospheric pressure : 100 kPa

Table 5: Test result of Peak Output Power

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	-2.72	0.000535	1
Mid Channel	2441	-2.47	0.000566	1
High Channel	2480	-3.39	0.000458	1

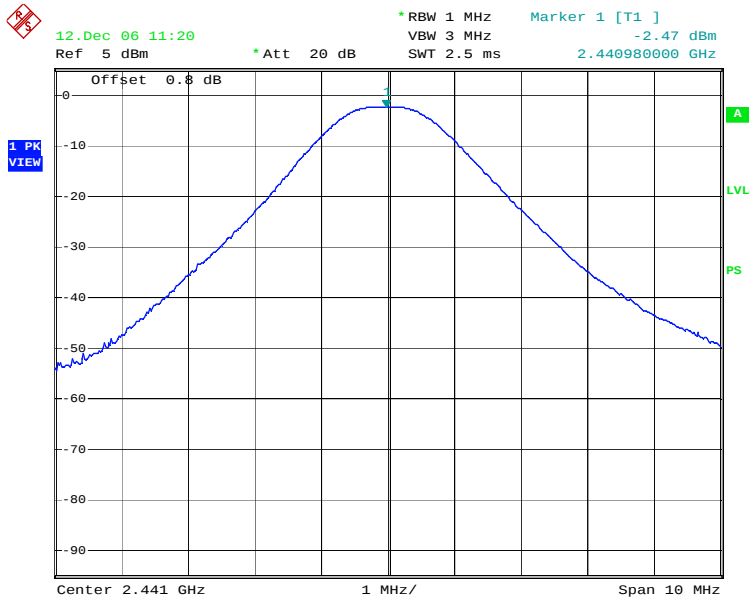
Test Plot of Peak Output Power

Low Channel



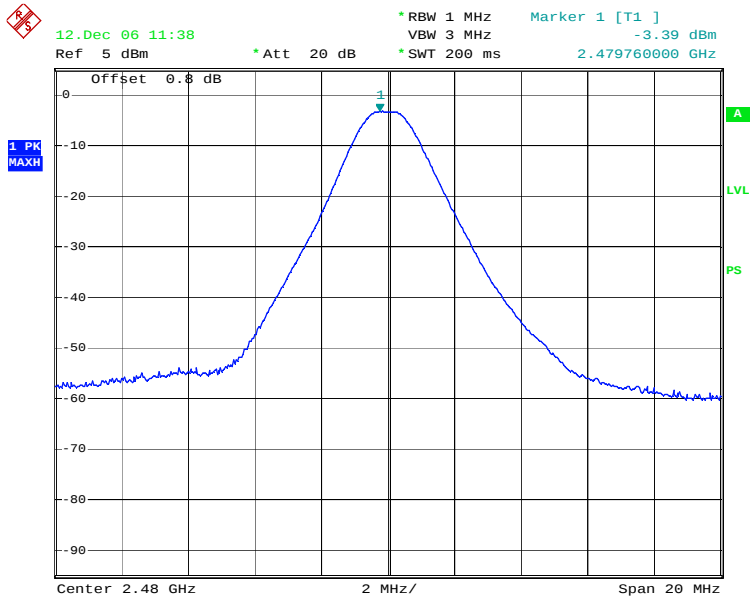
LowPWR
Date: 12.DEC.2006 10:52:33

Middle Channel



MIDPWR
Date: 12.DEC.2006 11:20:52

High Channel



HIGHPW
Date: 12.DEC.2006 11:38:23

5.3 20dB Bandwidth

RESULT:**Passed**

Date of testing : 2006-12-12
Test standard : FCC Part 15.247(a)(1)
Basic standard : ANSI C63.4: 2003
Requirement : According to Bluetooth technical specification,
bandwidth shall not exceed 1MHz
Kind of test site : Shielded room

Test setup

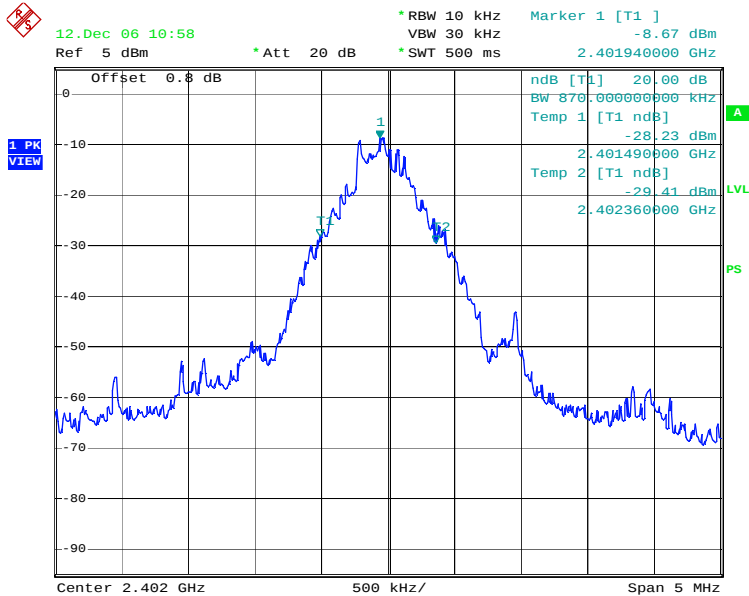
Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 23°C
Relative humidity : 51.1%
Atmospheric pressure : 100 kPa

Table 6: Test result of 20dB Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	870.00	/	Pass
Mid Channel	2441	880.00	/	Pass
High Channel	2480	910.00	/	Pass

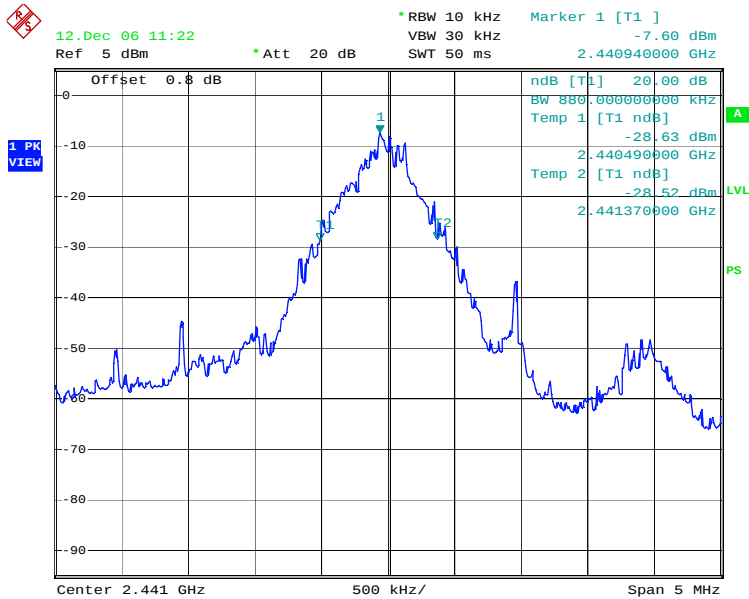
Test Plot of 20dB Bandwidth

Low Channel



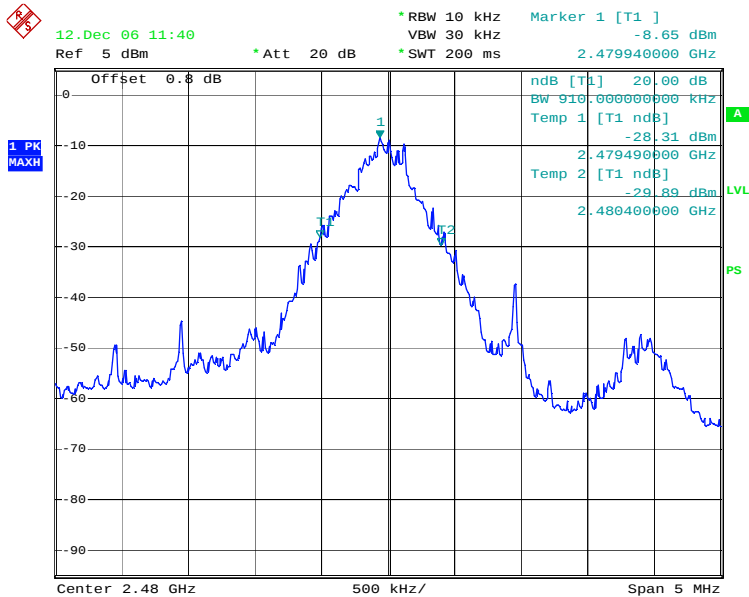
LowBW
Date: 12.DEC.2006 10:58:13

Middle Channel



MIDBW
Date: 12.DEC.2006 11:22:32

High Channel



HIGHBW

Date: 12.DEC.2006 11:40:35

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5.4 100kHz Bandwidth of Frequency Band Edge

RESULT:

Passed

Date of testing : 2006-12-12 and 2006-12-20
Test standard : FCC part 15.247(d)
Basic standard : ANSI C63.4: 2003
Limit : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site : Shield room and 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ High
Operation mode : A
Ambient temperature : 23°C
Relative humidity : 51.1%
Atmospheric pressure : 100 kPa

Table 7: Test result of 100kHz Bandwidth of Frequency Band Edge

100kHz Bandwidth of Frequency Band Edge							
Low Channel							
Frequency (MHz)	Polarity (V/H)	Level Peak (dBuV)	Level Average (dBuV)	Limit Peak (dBuV)	Limit Average (dBuV)	Margin Peak (dB)	Margin Peak (dB)
2399.54	V	37.97	-	74	54	-36.03	-
High Channel							
2484.8	V	37.05	-	74	54	-36.95	-
2486.339	V	37.19	-	74	54	-36.81	-

The curve is the measurement with the Peak detector, but the result of the measurement with the Peak detector is far below the Average limit, therefore the measurement with Average detector has been omitted.

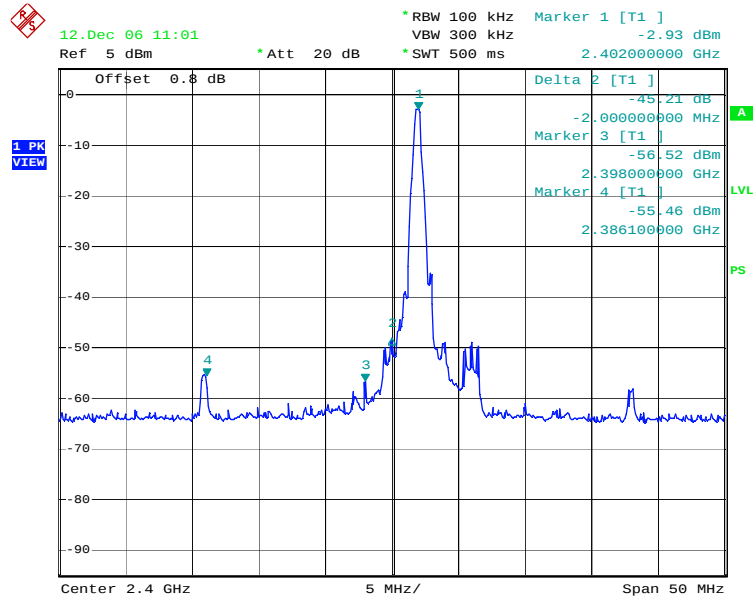
Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test plot, and compliance is achieved as well.

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Test Plot of 100kHz Bandwidth of Frequency Band Edge (Conducted method)

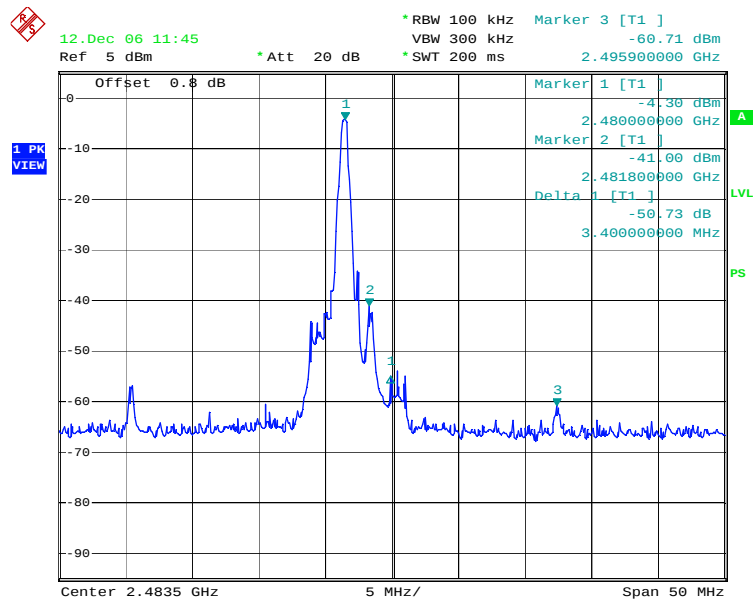
Low Channel



LowBE

Date: 12.DEC.2006 11:01:09

High Channel



HIGHBE

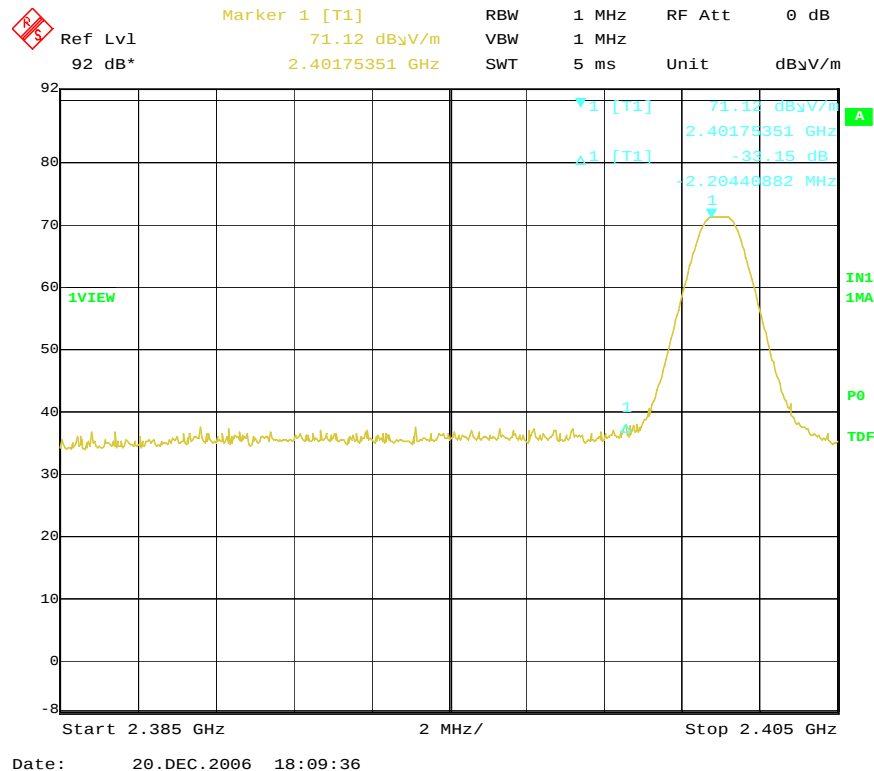
Date: 12.DEC.2006 11:45:05

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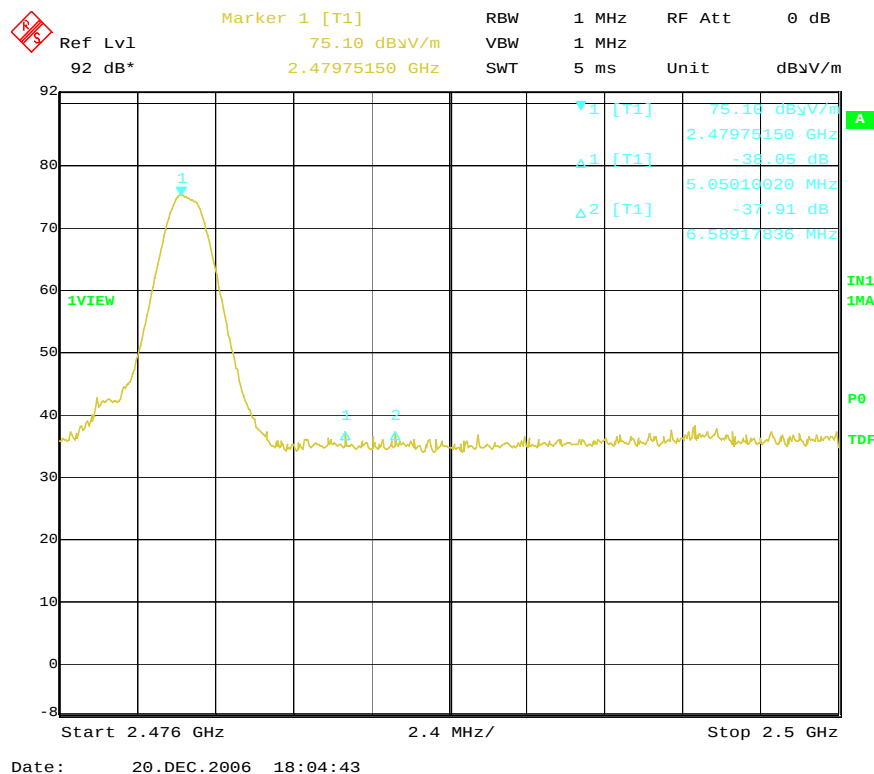
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Test Plot of 100kHz Bandwidth of Frequency Band Edge (Radiated method)

Low Channel



High Channel



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5.5 Spurious Emission

RESULT:

Passed

Date of testing : 2006-12-14
Test standard : FCC part 15.247(c)
Basic standard : ANSI C63.4: 2003
Limits : Refer to 15.209(a)
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A
Ambient temperature : 22°C
Relative humidity : 63%
Atmospheric pressure : 101.6 kPa

Table 8: Test result of Spurious Emission (Radiated method)

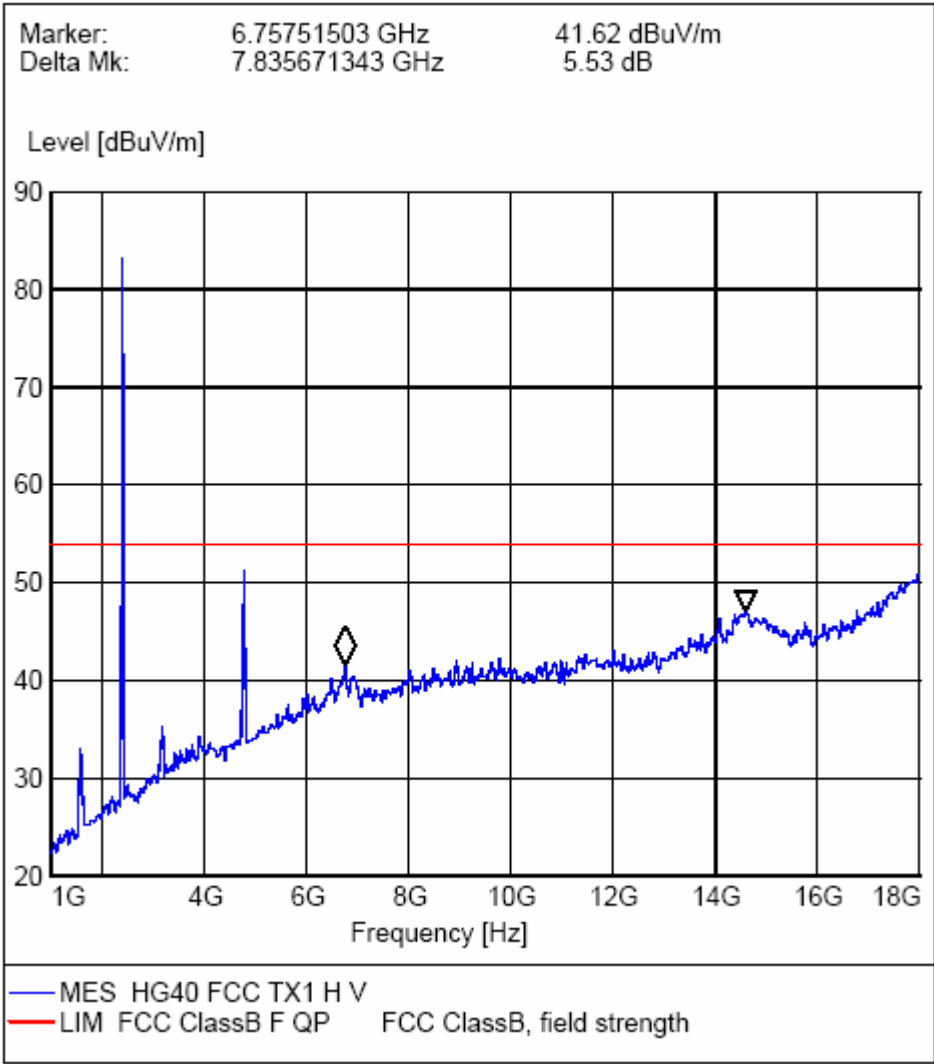
Spurious emission by Radiated method							
Low Channel							
Frequency (MHz)	Polarity (V/H)	Level Peak (dBuV)	Level Average (dBuV)	Limit Peak (dBuV)	Limit Average (dBuV)	Margin Peak (dB)	Margin Peak (dB)
2401.944	V	84.8	74.3	-	-	-	-
4803.913	V	52.8	45.8	74	54	-21.2	-8.2
2401.954	H	79.3	70.7	-	-	-	-
4803.912	H	49.6	44.4	74	54	-24.4	-9.6
Middle Channel							
2440.952	V	85.4	78.8	-	-	-	-
4881.919	V	50.9	46.9	74	54	-23.1	-7.1
2440.952	H	81.7	74.2	-	-	-	-
4881.899	H	41.1	35.1	74	54	-32.9	-18.9
High Channel							
2479.950	V	78.8	68.3	-	-	-	-
4959.915	V	51.7	43.6	74	54	-22.3	-10.4
2479.950	H	73.7	63.1	-	-	-	-
4959.915	H	42.8	36.1	74	54	-31.2	-17.9

Note:

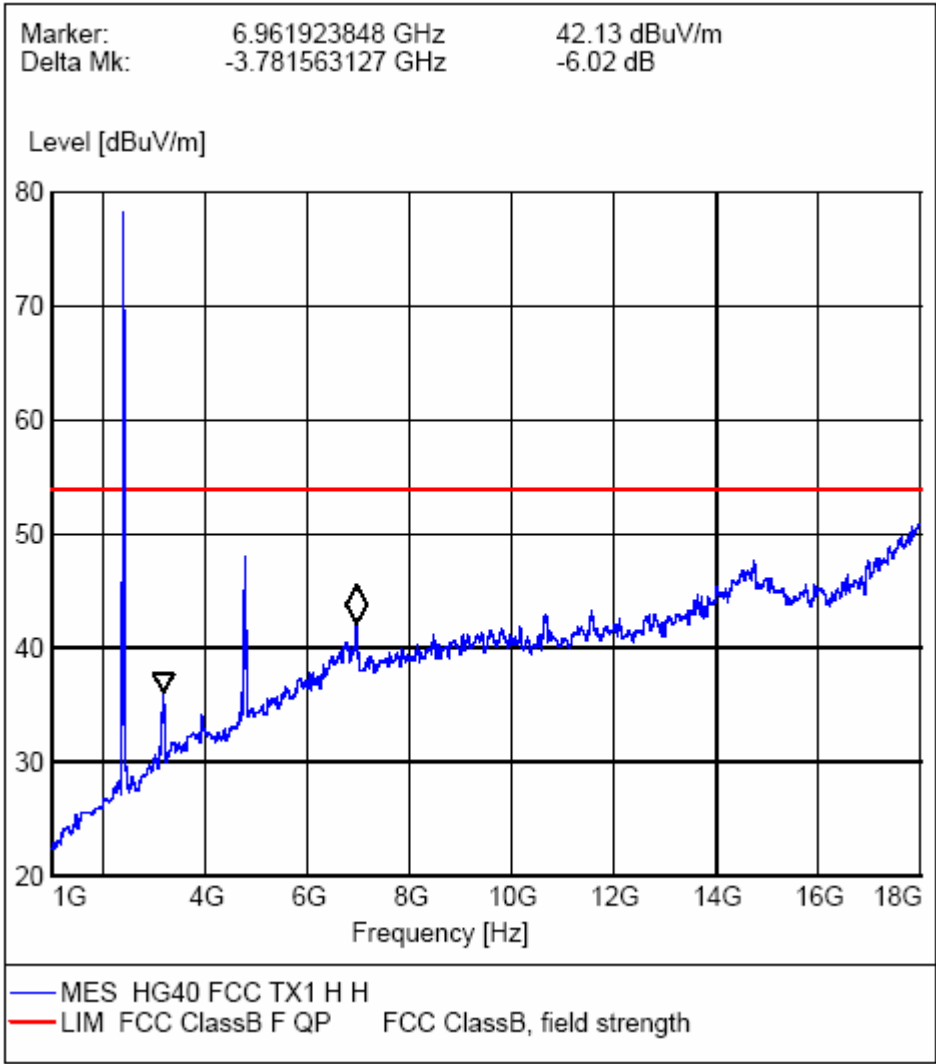
Testing was carried out with frequency rang 30MHz to the tenth harmonics, test results are very below the limit between 18GHz to 26.5GHz, therefore the measurement curve has been omitted.

Test results of spurious emission by conducted method refer to following curve.

Test Plot of Spurious emission of Low channel– Vertical (Radiated)



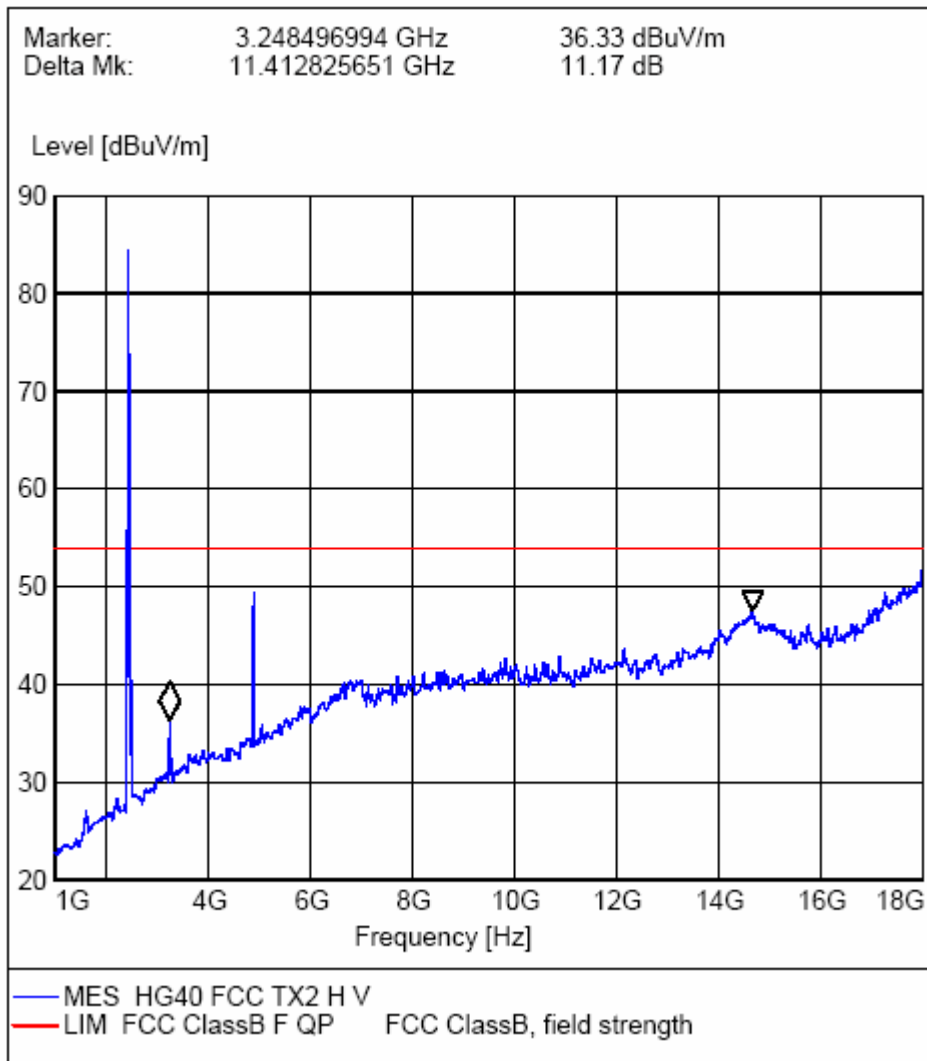
Test Plot of Spurious emission of Low channel– Horizontal (Radiated)



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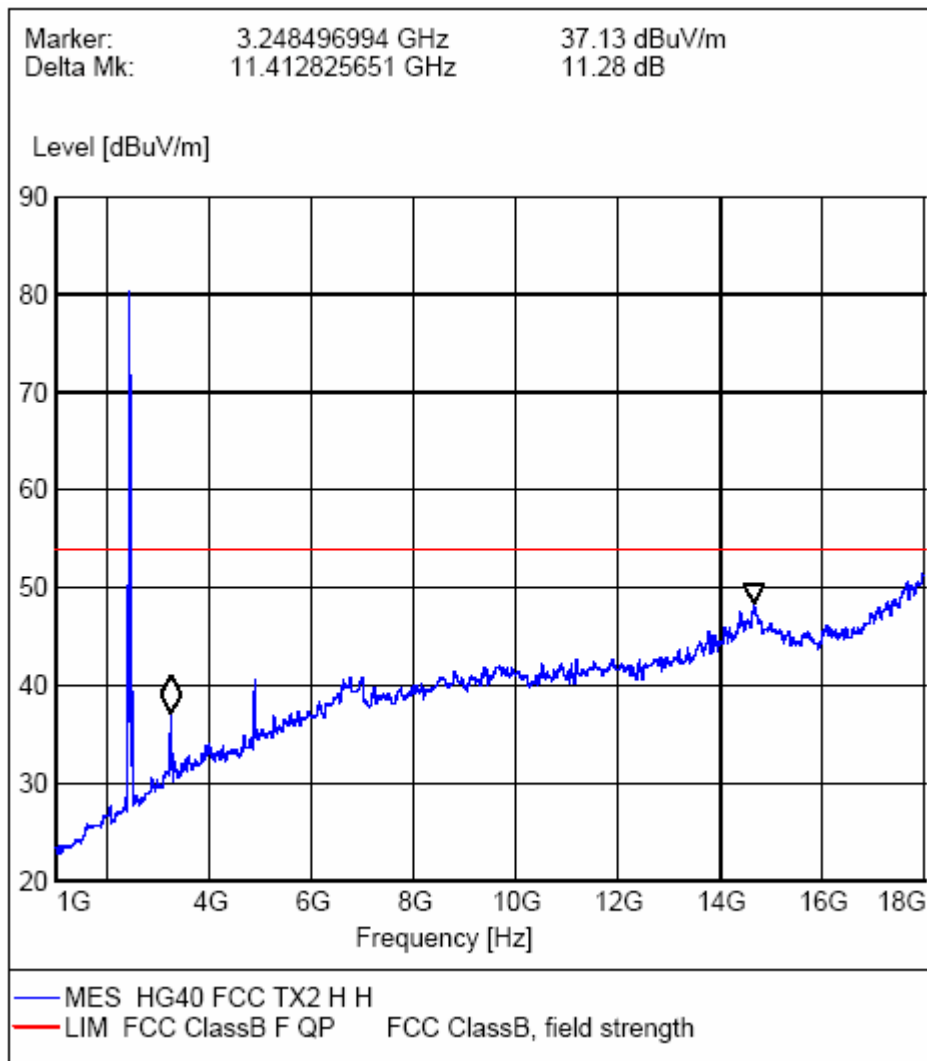
Test Plot of Spurious emission of Middle channel– Vertical (Radiated)



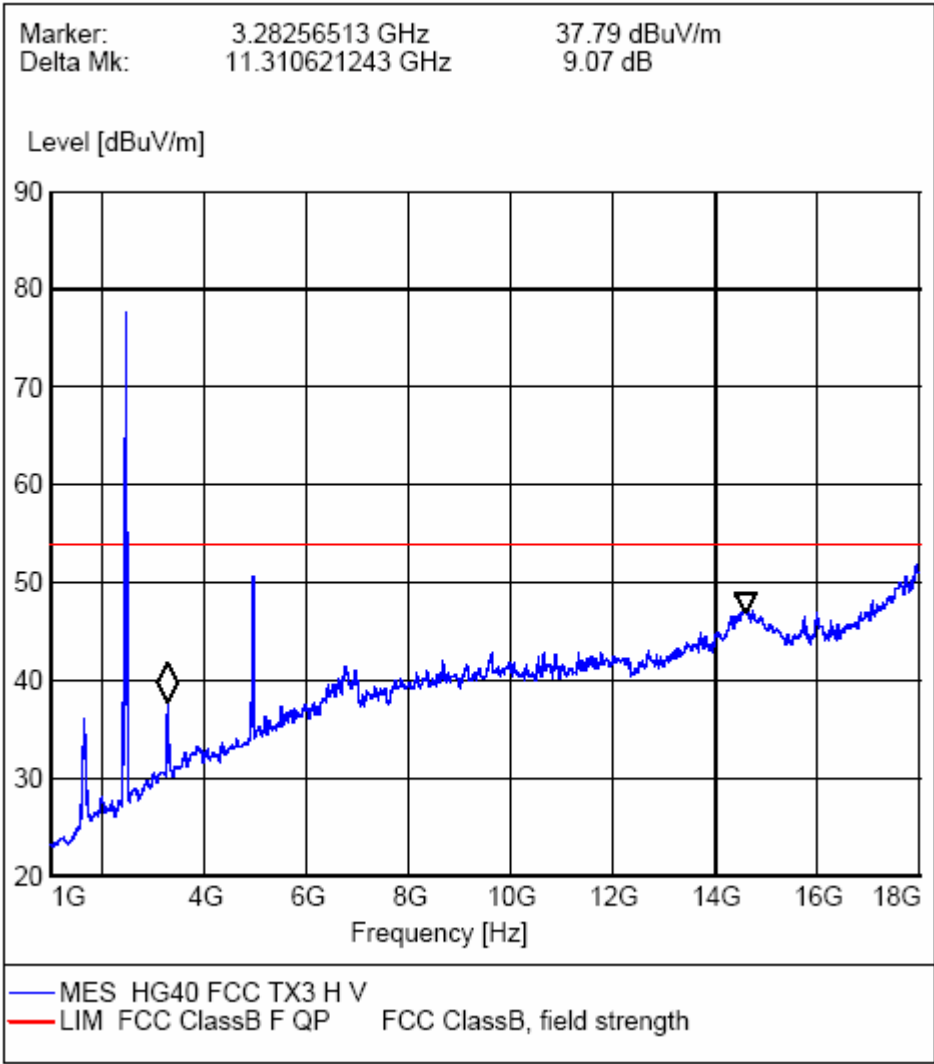
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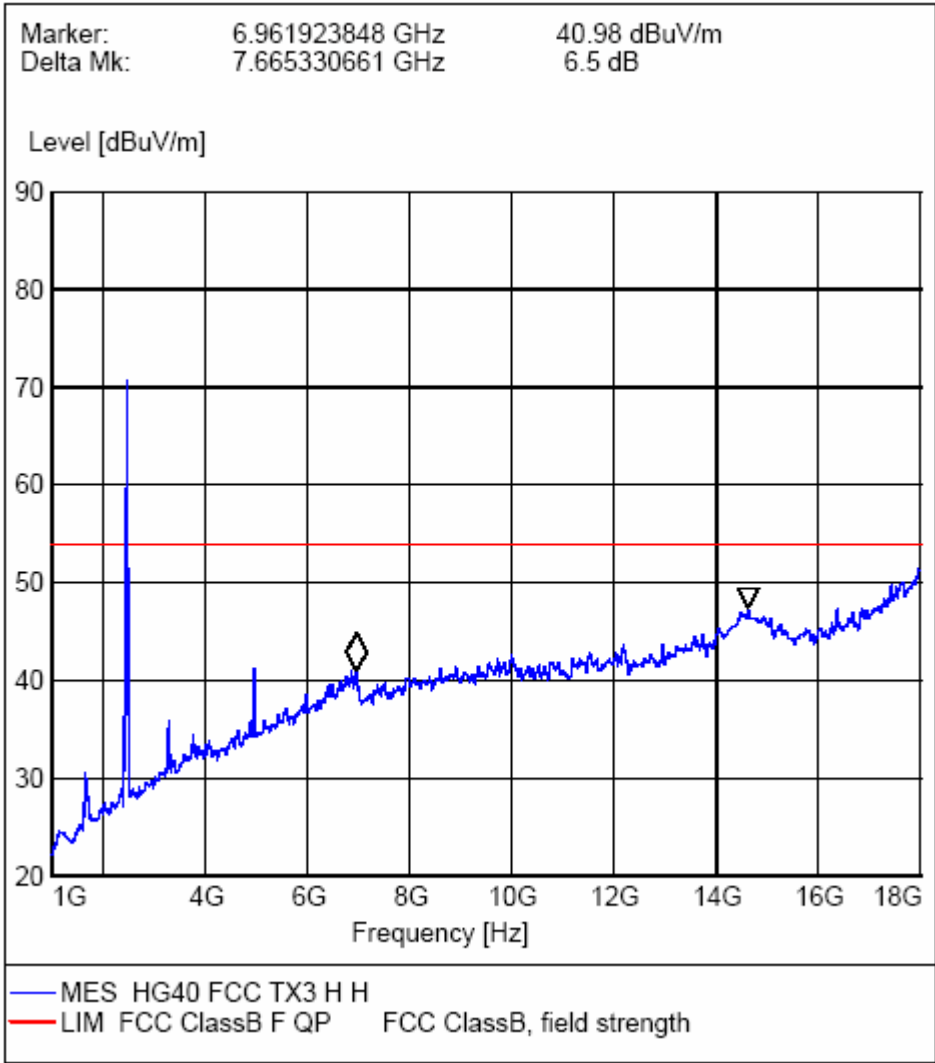
Test Plot of Spurious emission of Middle channel- Horizontal (Radiated)



Test Plot of Spurious emission of High channel– Vertical (Radiated)



Test Plot of Spurious emission of High channel– Horizontal
(Radiated)

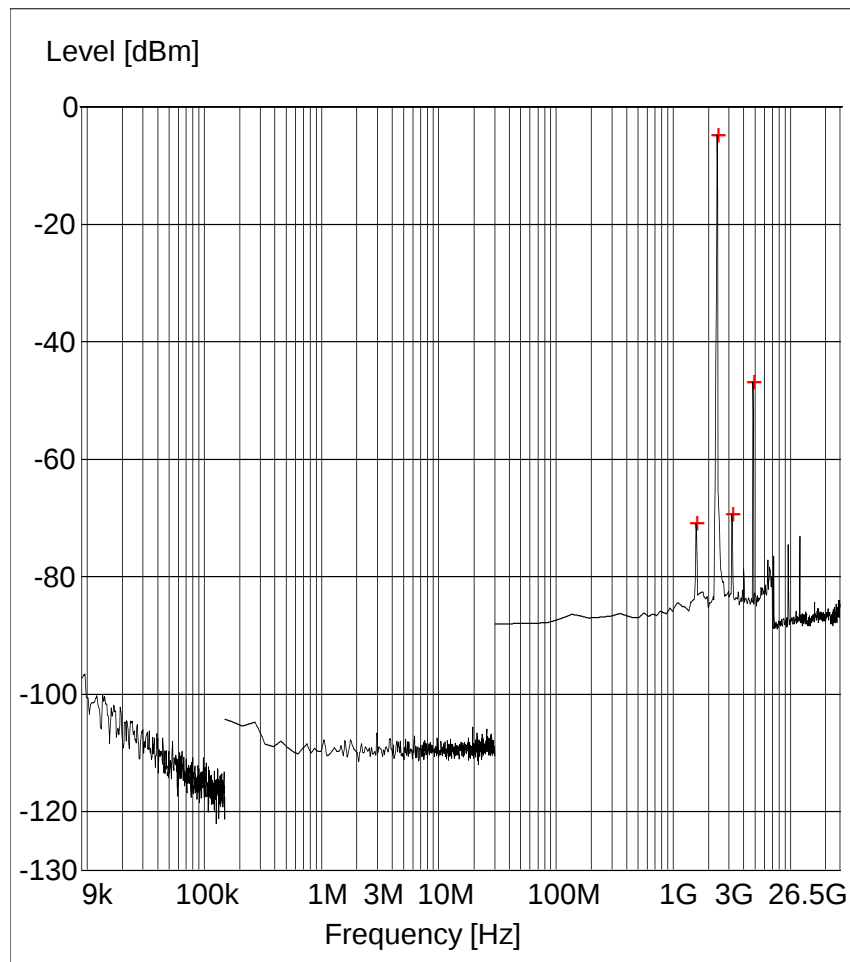


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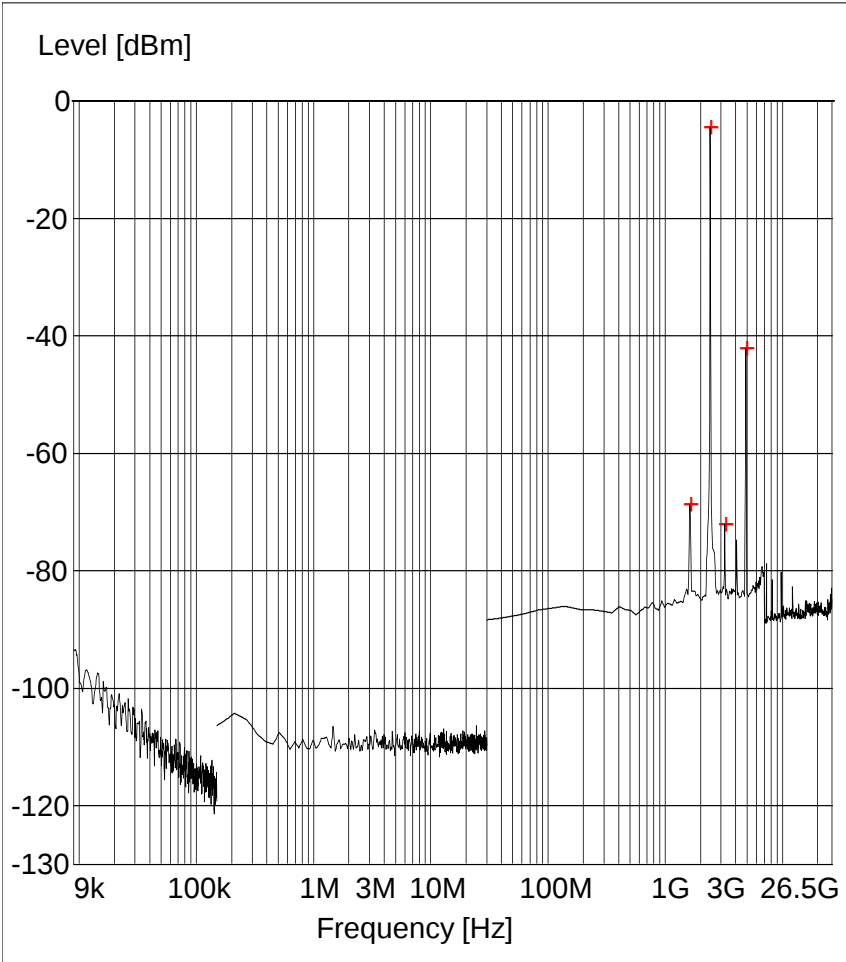
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Test Plot of Spurious emission of Low channel (Conducted)

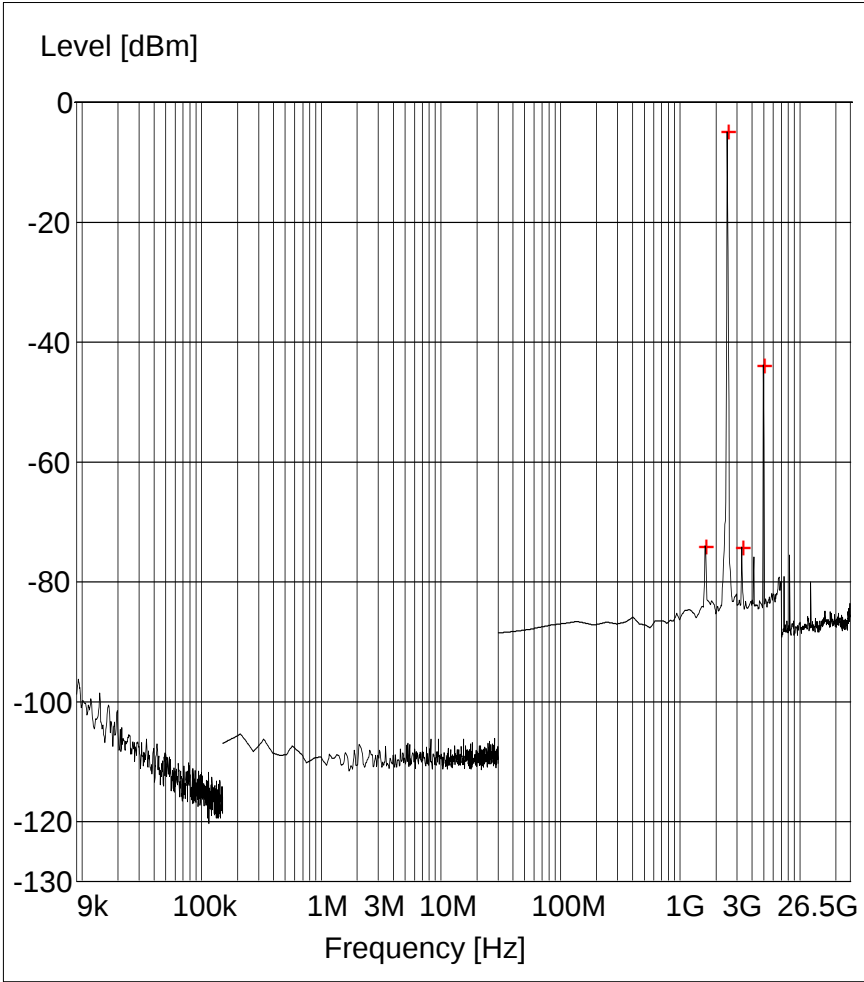
Low Channel



Middel Channel



High Channel



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5.6 Frequency Separation

RESULT:

Passed

Date of testing : 2006-12-12
Test standard : FCC part 15.247(a)(1)
Basic standard : ANSI C63.4: 2003
Limit : $\geq 25\text{kHz}$ or 20dB bandwidth, whichever is greater
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 23°C
Relative humidity : 51.1%
Atmospheric pressure : 100 kPa

Table 9: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	$\geq 25\text{kHz}$ or 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	$\geq 25\text{kHz}$ or 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	$\geq 25\text{kHz}$ or 20dB bandwidth	Pass
Adjacency Channel	2479			

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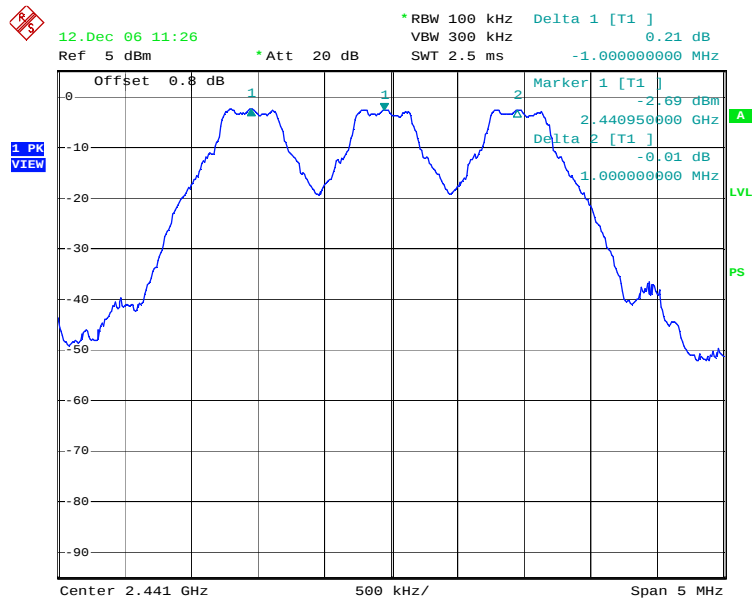
Test Plot of Frequency Separation Low Channel



LowFS

Date: 12.DEC.2006 11:05:28

Middle Channel



MIDFS

Date: 12.DEC.2006 11:26:02

High Channel



HIGHFS
Date: 12.DEC.2006 11:49:12

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5.7 Number of hopping frequency

RESULT:

Passed

Date of testing : 2006-12-12
Test standard : FCC part 15.247(a)(1)(iii)
Basic standard : ANSI C63.4: 2003
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shield room

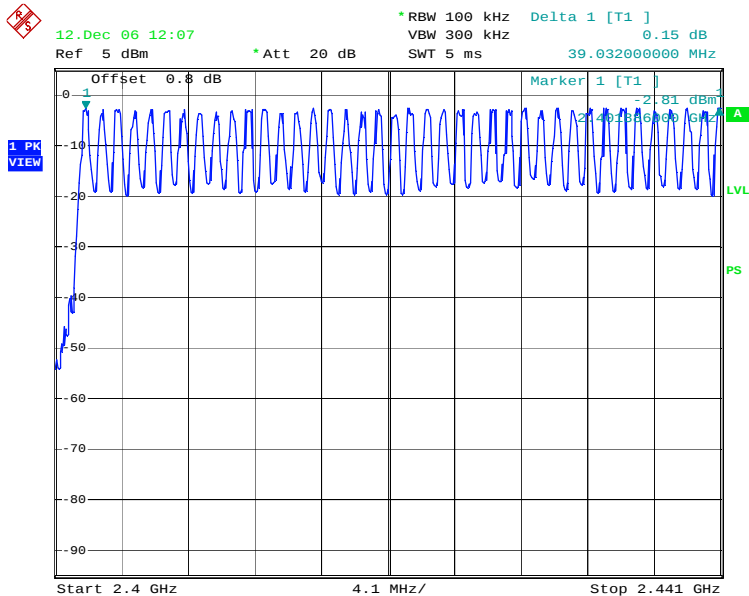
Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 23°C
Relative humidity : 51.1%
Atmospheric pressure : 100 kPa

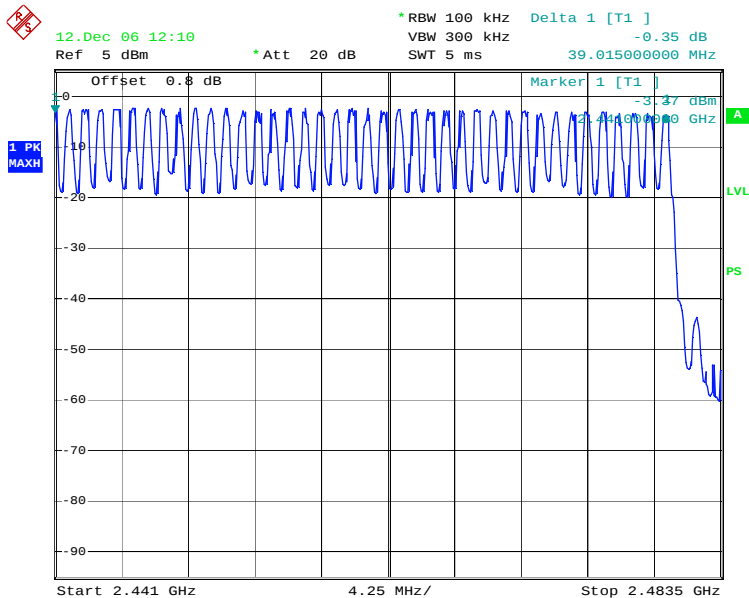
Table 10: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2400</u> to <u>2483.5</u> MHz	79	15	Pass

Test Plot of Number of hopping frequency



NUMBER1
Date: 12.DEC.2006 12:07:10



NUMBER2
Date: 12.DEC.2006 12:10:46

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5.8 Time of Occupancy

RESULT:

Passed

Date of testing : 2006-12-12
Test standard : FCC part 15.247(a)(1)(iii)
Basic standard : ANSI C63.4: 2003
Limits : 0.4s
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 23°C
Relative humidity : 51.1%
Atmospheric pressure : 100 kPa

Table 11: Test result of Time of Occupancy

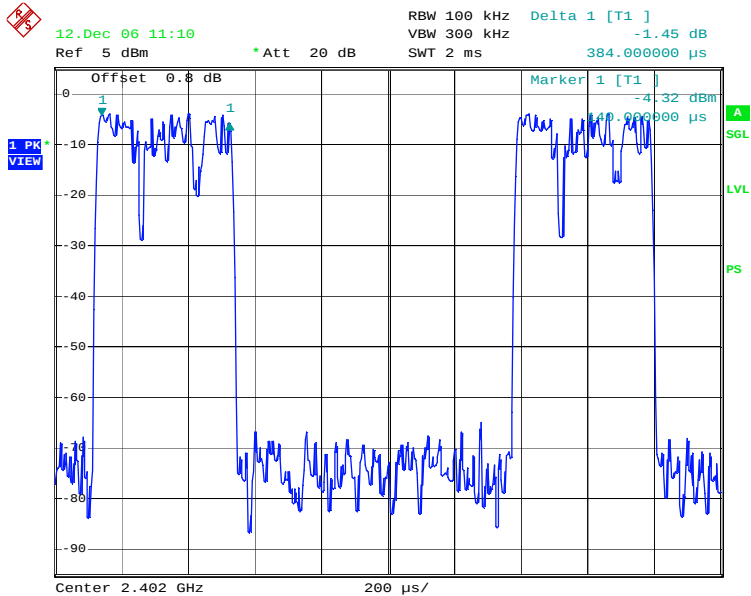
Channel	Data Mode	Pulse wide (ms)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	DH1	0.384	0.123	0.4	Pass
	DH3	1.294	0.207	0.4	Pass
	DH5	2.794	0.298	0.4	Pass
Mid Channel	DH1	0.384	0.123	0.4	Pass
	DH3	1.284	0.205	0.4	Pass
	DH5	2.844	0.303	0.4	Pass
High Channel	DH1	0.380	0.122	0.4	Pass
	DH3	1.280	0.205	0.4	Pass
	DH5	2.840	0.303	0.4	Pass

Note:

Dwell time = Pulse wide x (Hopping rate / Number of channels) x Period

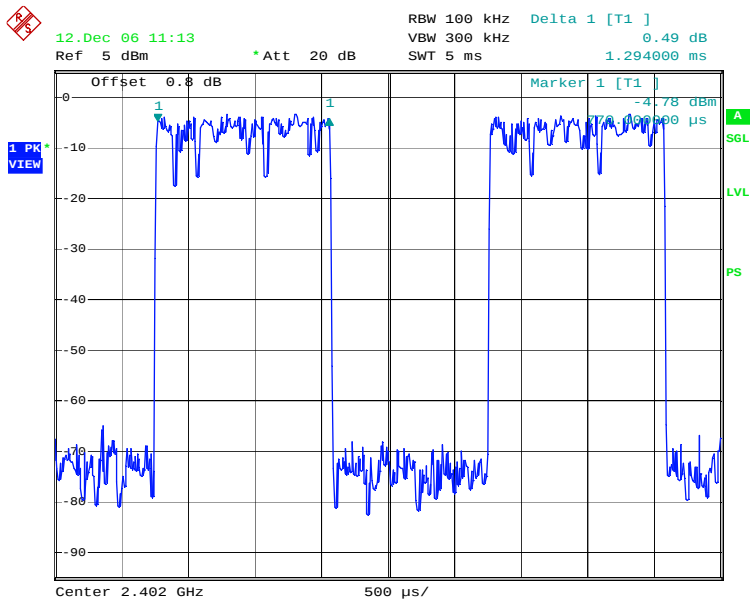
Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

Test Plot of Frequency Separation
Low Channel- DH1



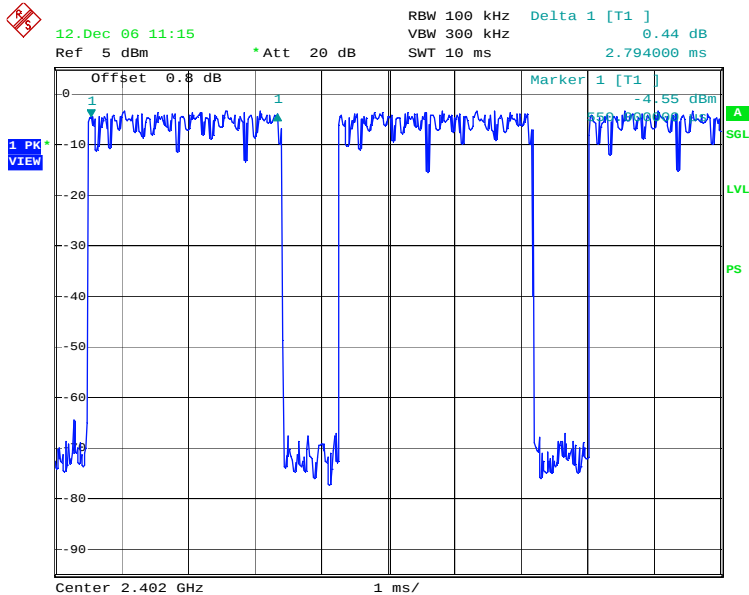
LowDH1
Date: 12.DEC.2006 11:10:59

Low Channel- DH3



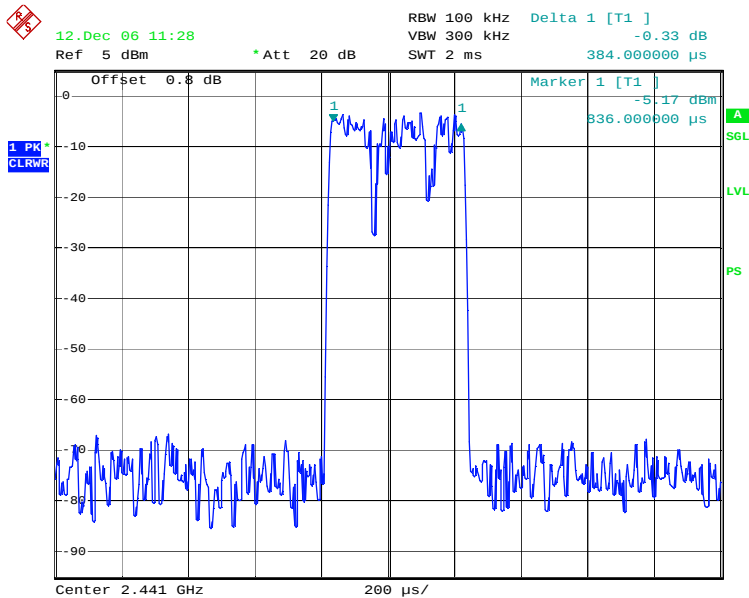
LowDH3
Date: 12.DEC.2006 11:13:39

Low Channel- DH5



LowDH5
Date: 12.DEC.2006 11:15:38

Mid Channel- DH1

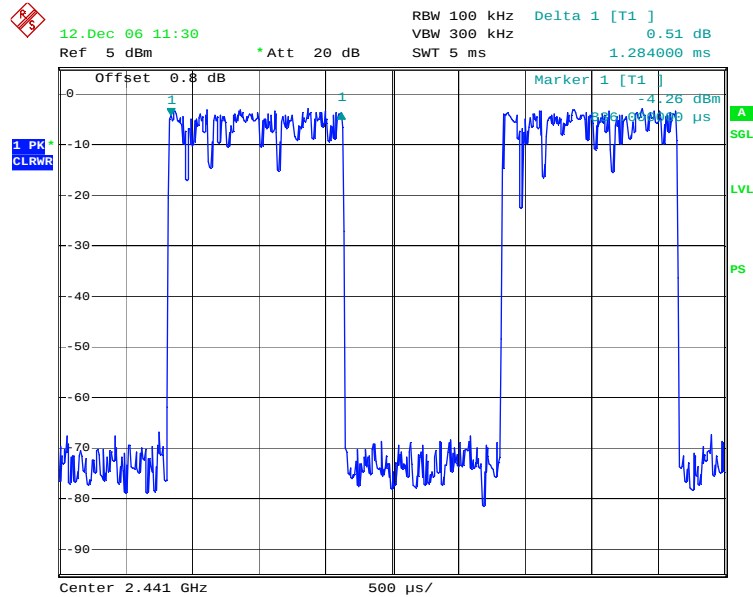


MIDD1
Date: 12.DEC.2006 11:28:03

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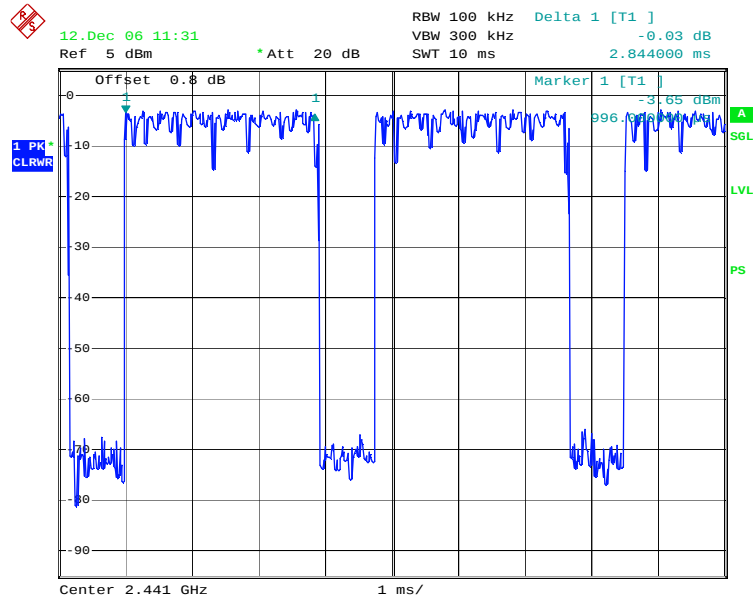
Middle Channel- DH3



MIDD3

Date: 12.DEC.2006 11:30:07

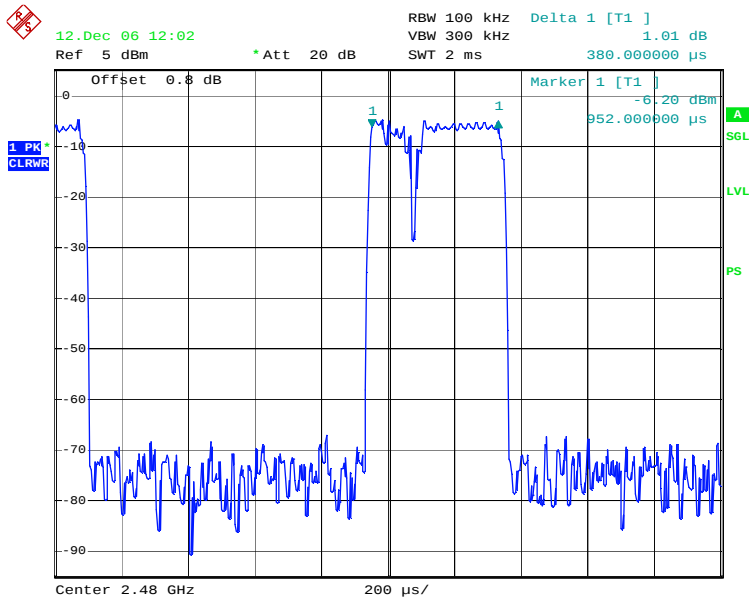
Middle Channel- DH5



MIDD5

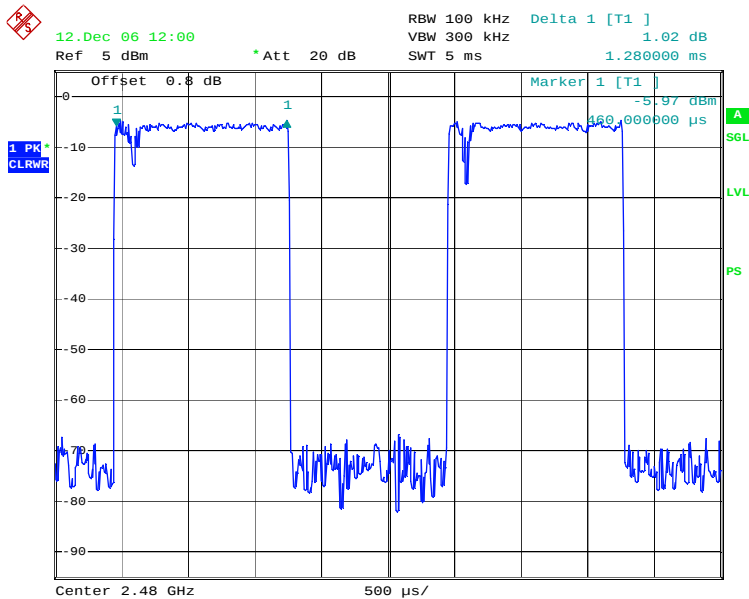
Date: 12.DEC.2006 11:31:30

High Channel- DH1



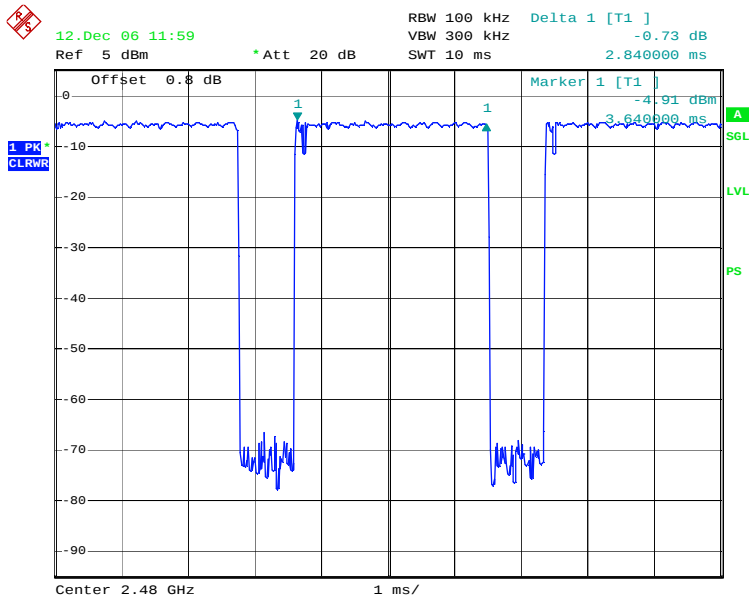
HIGHDH1
Date: 12.DEC.2006 12:02:08

High Channel- DH3



HIGHDH3
Date: 12.DEC.2006 12:00:47

High Channel- DH5



HIGHDH5
Date: 12.DEC.2006 11:59:38

5.9 Peak Power Density

RESULT:**Passed**

Date of testing : 2006-12-12
Test standard : FCC part 15.247(e)
Basic standard : ANSI C63.4: 2003
Limits : 8.0 dBm (in any 3kHz band)
Kind of test site : Shield room

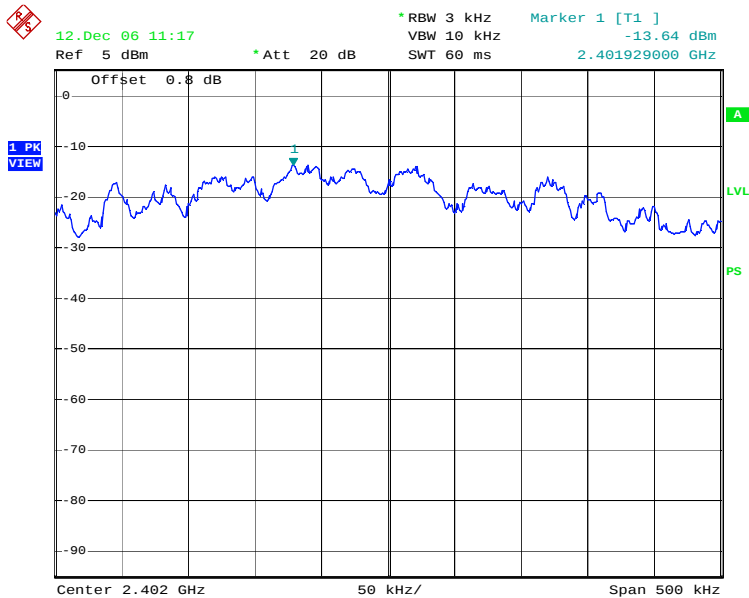
Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 23°C
Relative humidity : 51.1%
Atmospheric pressure : 100 kPa

Table 12: Test result of Peak Power Density

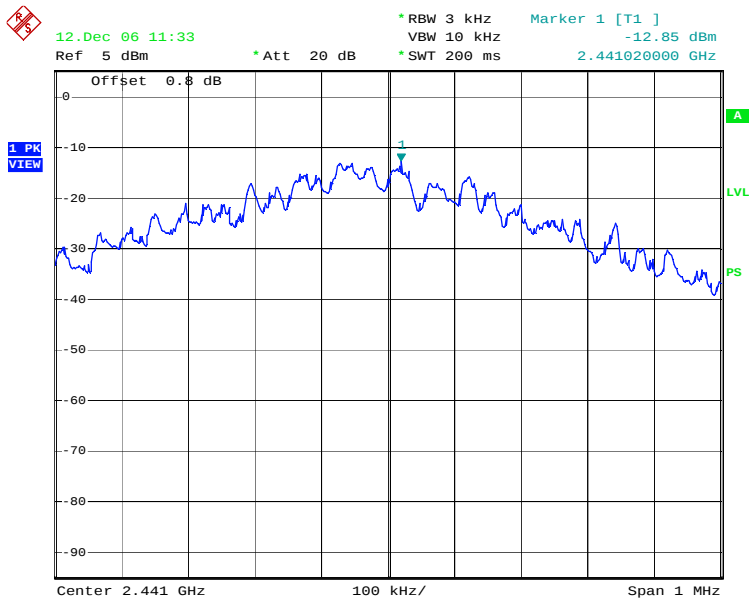
Channel	Channel Frequency (MHz)	Reading Power (dBm)	Limit (dBm)	Result
Low Channel	2402	-13.64	8	Pass
Mid Channel	2441	-12.85	8	Pass
High Channel	2480	-16.07	8	Pass

Test Plot of Peak Power Density
Low Channel



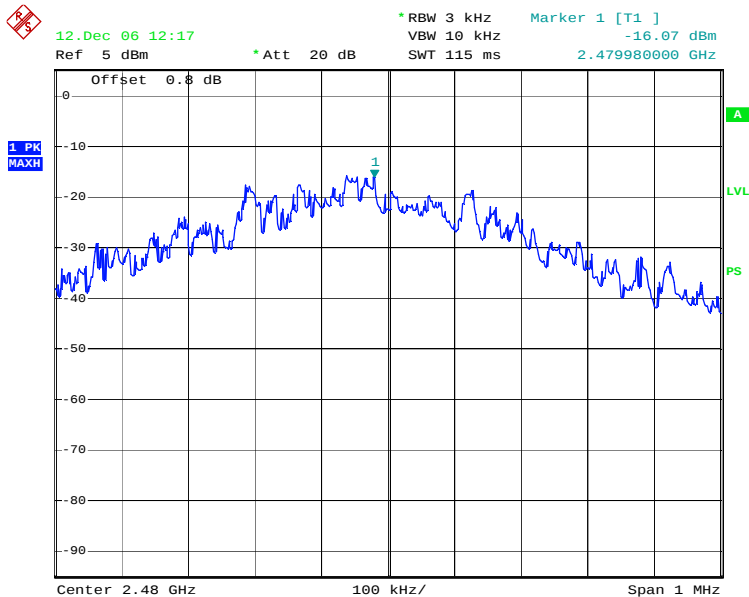
LowPDS
Date: 12.DEC.2006 11:17:39

Middle Channel



MIDPDS
Date: 12.DEC.2006 11:33:11

High Channel



HIGHPD
Date: 12.DEC.2006 12:17:27

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5.10 Conducted emissions

RESULT:

Passed

Date of testing : 2006-12-13
Test standard : FCC Part 15.207(a)
Basic standard : ANSI C63.4: 2003
Frequency range : 0.15 – 30MHz
Limits : FCC Part 15.207(a)
Kind of test site : Shield room

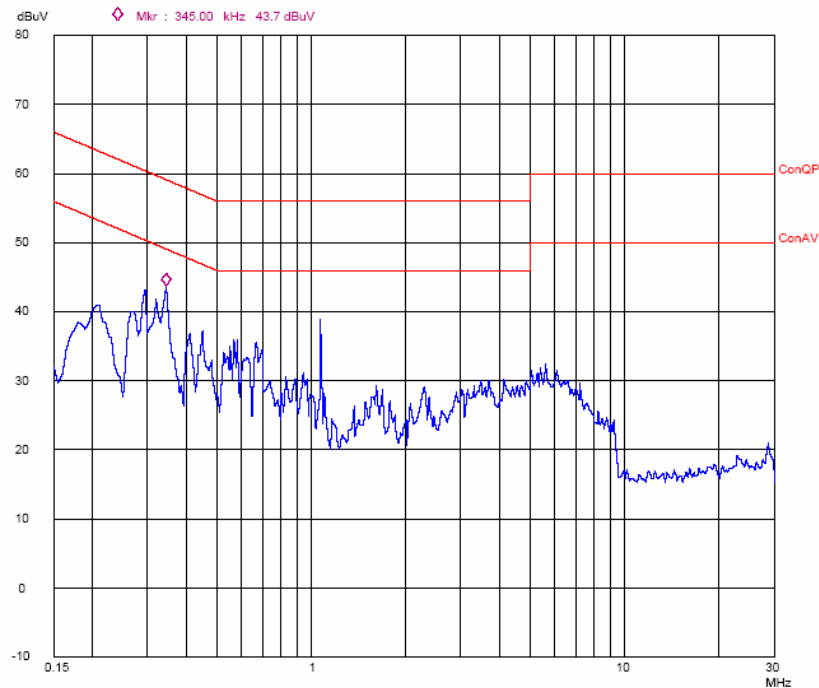
Test setup

Input Voltage (of AC/DC adaptor) : AC 120V, 60Hz
Operation Mode : A, B, D
Earthing : Not Connected
Ambient temperature : 23°C
Relative humidity : 63%
Atmospheric pressure : 101.6 kPa

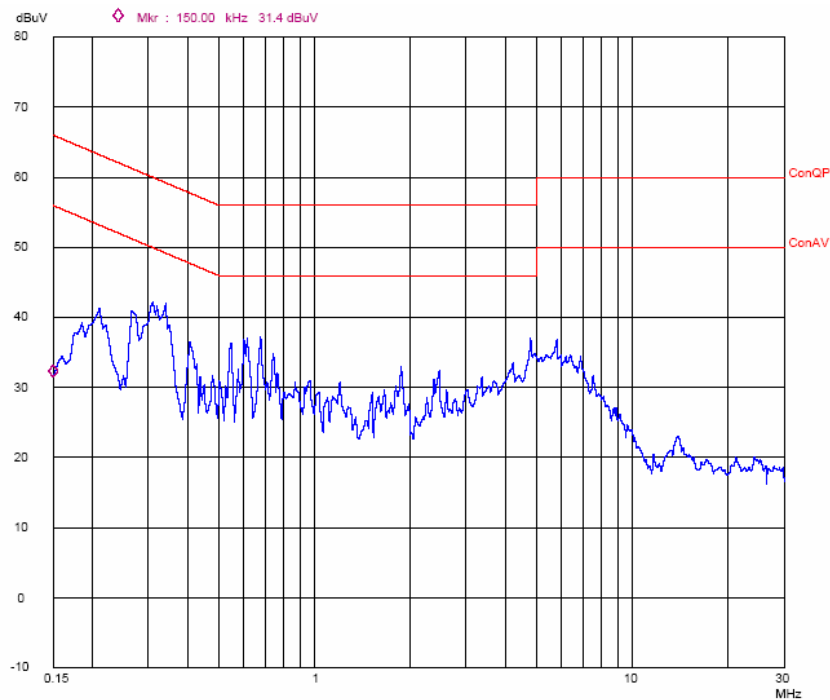
Table 13: Test result of Conducted emissions

Frequency [MHz]	Phase	Level QP [dB(μ V)]	Level AV [dB(μ V)]	Limit QP [dB(μ V)]	Limit AV [dB(μ V)]	Margin QP [dB]	Margin AV [dB]
0.345	L	30.7	14.9	59.1	49.1	-28.4	-34.2
1.070	L	17.1	7.7	56	46	-38.9	-38.3
5.580	L	13.2	6.4	60	50	-46.8	-43.6
0.310	N	36.1	17.7	59.9	49.9	-35.4	-32.2
0.545	N	24.6	16.8	56	46	-28.4	-34.2
4.790	N	23.5	16.7	56	46	-38.9	-38.3
5.790	N	24.6	17.8	60	50	-46.8	-43.6

Test Plot of Conducted emissions - Live



Test Plot of Conducted emissions - Neutral



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5.11 Radiated emissions

RESULT:

Passed

Date of testing : 2006-12-14
Test standard : FCC Part 15.209
Basic standard : ANSI C63.4: 2003
Frequency range : 30 – 1000MHz
Limits : FCC Part 15.209(a)
Kind of test site : 3m Semi-Anechoic Chamber

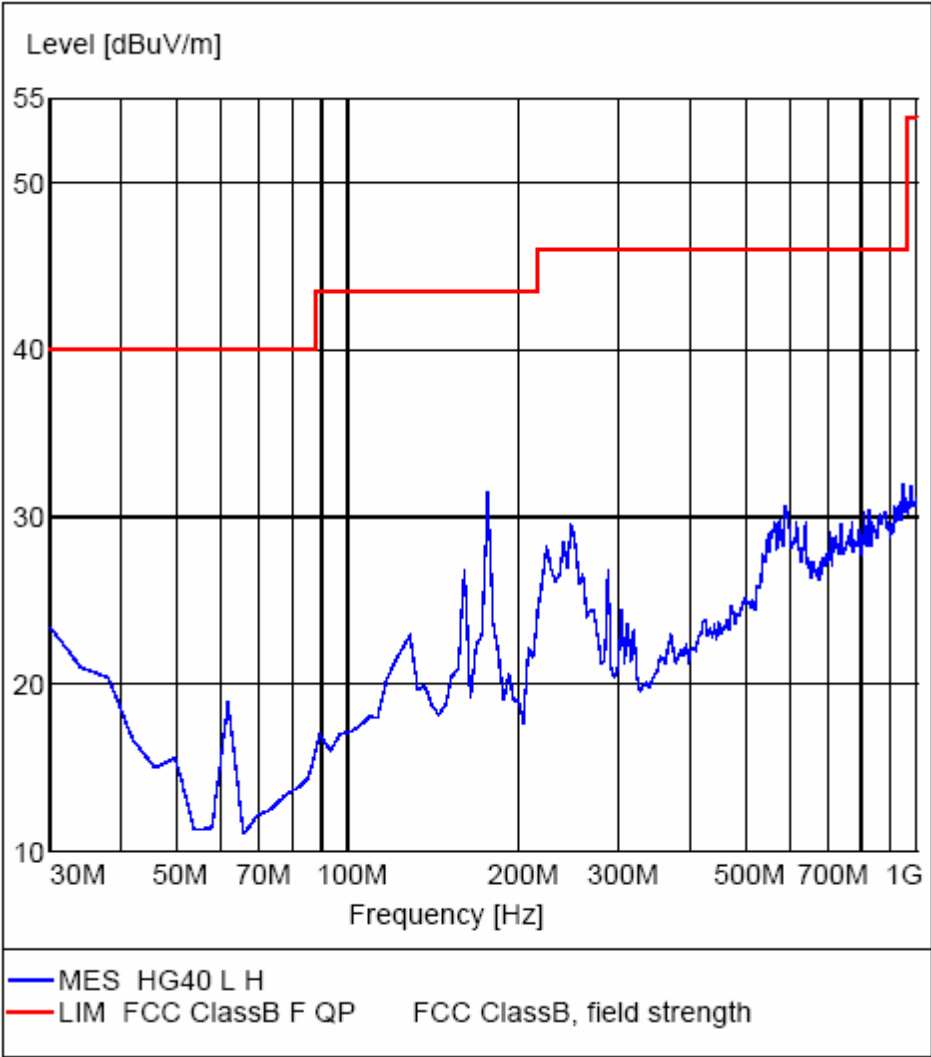
Test Setup

Input Voltage (of AC/DC adaptor) : AC 120V, 60Hz
Operation Mode : A, B, D
Earthing : Not Connected
Ambient temperature : 22°C
Relative humidity : 63%
Atmospheric pressure : 101.6 kPa

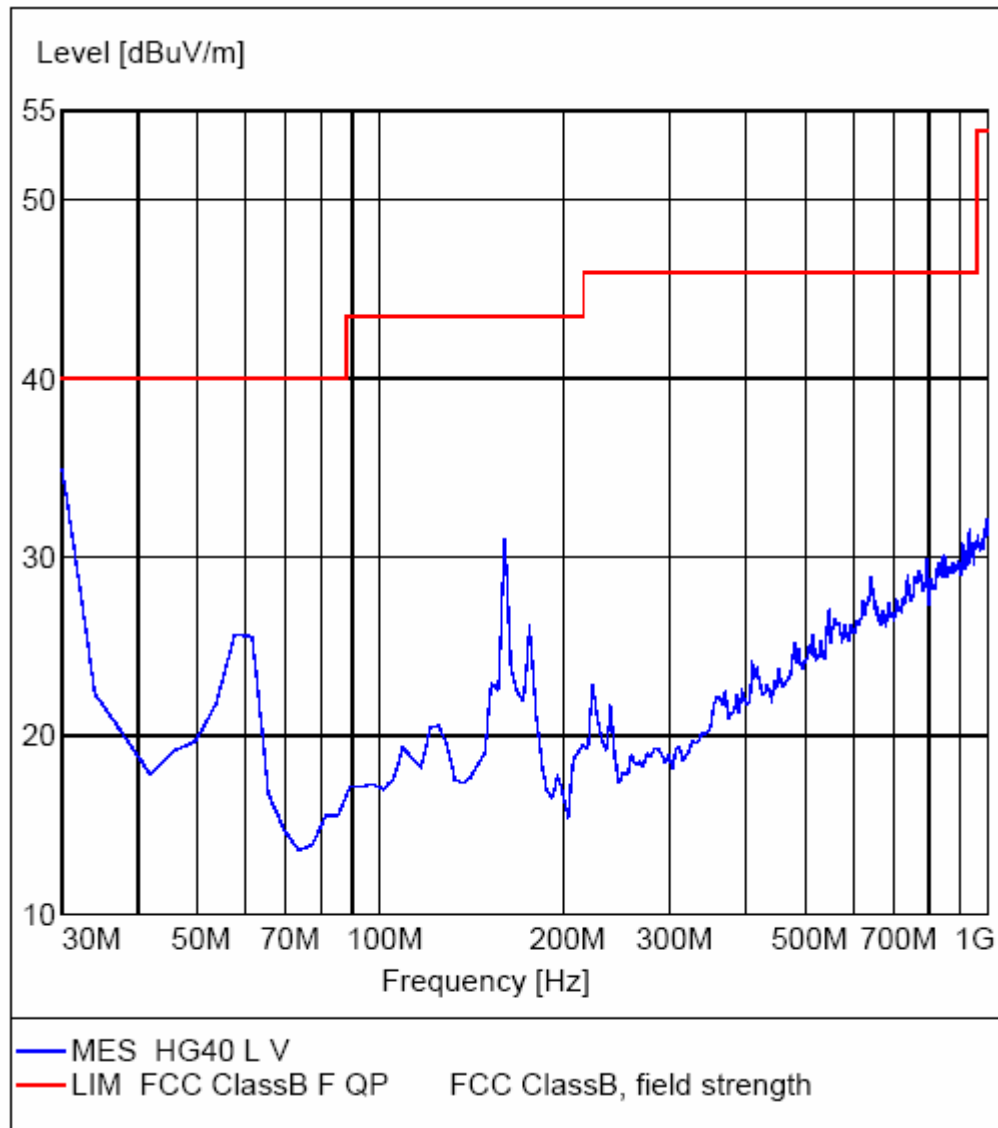
Table 14: Test result of Radiated emissions

Frequency (MHz)	Polarity (V/H)	Level Quasi-Peak [dB(µV/m)]	Limit [dB(µV/m)]	Margin [dB]
176.000	Horizontal	26.3	43.5	-17.2
247.134	Horizontal	24.3	46.0	-21.7
586.653	Horizontal	25.1	46.0	-20.9
30.000	Vertical	18.5	40.0	-17.2
159.975	Vertical	31.6	43.5	-21.7
176.910	Vertical	17.7	43.5	-20.9

Test Plot of Radiated emissions- Horizontal



Test Plots of Radiated emissions- Vertical



Frequency hopping information

1, Hopping Range

Hereby we declare that the maximum frequency of this device is: 2402-2480MHz.
This is according the Bluetooth Core Specification V1.2 (+ critical errata) for devices which will be operated in the USA.
This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E).
Other frequency ranges (e.g. for Spain, France, Japan) which are allowed according the Core Specification are not supported by this device.

2, Hopping Sequence

Example of a 79 hopping sequence in data mode:

33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73,
07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56,
69,62,71,64, 37,25,27,66,57,70,74,61,78,63,10,41,05,43,
15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,

3, Receiver input bandwidth

The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master.

Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case.

That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.