

No.	E0901FC8888-0004
Total page	45



TEST REPORT

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Product Name : CAR AUDIO

Type and Specification : CD5030

Test Category : Entrusted Test

Manufacturer : FUJITSU TEN LIMITED

Applicant: FUJITSU TEN LIMITED



**China Electronic Product Reliability And
Environmental Testing Research Institute**

CEPREI

CEPREI (Headquarters) Laboratory

ITEMS FOR ATTENTION

1. It would be invalid test report without specific stamp for test institute or the authority.
2. It would be invalid duplicated report without specific stamp for test institute or the authority.
3. It would be invalid test report without all the signatures of compilation, reviewer and approver.
4. It would be invalid test report, if there is any scrawl in the test report without official authorization.
5. Any disputes about the report must be submitted for test institute within 15 days from the day when the report is received, otherwise that would be invalid out of expiry.
6. Generally, the responsible is only for the samples in entrusted test.

Remark: Possible test case verdicts:

Test item does meet the requirement.....P (Pass)

Test item does not meet the requirement.....F (Fail)

Test case does not apply to the test object.....N (N/A)

Address: No.110, Dongguanzhuang Road, Tianhe District,
Guangzhou City, Guangdong Province, 510610, P.R. China

Tel: 0086-20-87237150, 87237006, 87237178,87237552

Fax: 0086-20-87236171, 87237609

E-mail: info@ceprei.biz, qic@ceprei.biz, market@ceprei.biz

TEST REPORT

Product	CAR AUDIO			Model / Type	CD5030
Factory	Shinwa Mechatronics(Shenzhen) Ltd.			Trade/Mark	FUJITSU TEN
Address of Factory	1st Industrial Zone of Fenghuang,Fuyong Town,Baoan District, Shenzhen, Guangdong, P.R.China				
Manufacturer	FUJITSU TEN LIMITED				
Address of manufacturer	2-28, GOSHO-DORI 1-CHOME, HYOGO-KU, KOBE (652-8510), Japan				
Applicant	FUJITSU TEN LIMITED				
Address of Applicant	2-28, GOSHO-DORI 1-CHOME, HYOGO-KU, KOBE (652-8510), Japan				
Sampling Method	Sampling by the factory			Production Date	/
Number of Specimen	1pc	Testing Duration	Feb. 2009	Ambient Condition	15~35℃, 45~75%RH, 86~106kPa
Test Standards: FCC Part 15 Subpart C July 2008 RSS-210 Issue 7 June 2007					
Test Instruments and Equipments: See Equipments List of This Report.					
Conclusion: The EUT Complied with the requirements of test standards.					
Testing Technician: _____ (Liu Xin)					
Responsible Engineer: _____ (Huang Chubin)					
Approver: _____ Date: 2009.04.24					
Remark: FCC ID: BABFT0016A IC : 2024B-FT0016A					



CEPREI (Headquarters) Laboratory

China Electronic Product Reliability And Environmental Testing Research Institute

No.110, Dongguan Zhuang Road, Tianhe District, Guangzhou City, Guangdong Province, 510610, P.R. China

EMC Standards Compliance List/Test Summary

The following standards have been applied to ensure the product conforms to the requirements of FCC Part 15 Subpart B July 2008 and RSS-210 Issue 7 June 2007.

Electromagnetic Emissions			
Test Item	Clause	Standard	Result
Conducted Emission	15.207(a)	FCC Part 15	N/A
Radiated Emission	15.209(a)	FCC Part 15	PASS
Antenna requirement	15.203	FCC Part 15	PASS
Hopping Channel Separation	15.247(a)(1)	FCC Part 15	PASS
Number of Hopping Frequencies used	15.247(a)(1)(iii)	FCC Part 15	PASS
Hopping Channel Bandwidth	15.247(a)(1)(ii)	FCC Part 15	PASS
Dwell Time of each frequency	15.247(a)(1)(iii)	FCC Part 15	PASS
Output power Requirement	15.247(b)(1)	FCC Part 15	PASS
100kHz Bandwidth of frequency band edges requirement	15.247(c)	FCC Part 15	PASS
Out-Of-Band Conducted Emission Requirement	15.247(c)	FCC Part 15	PASS

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Section 1 General Information

1.1 Introduction

This report documents the FCC part 15 test results for the CAR AUDIO.

1.2 EUT General and Technical Descriptions

EUT Name:	CAR AUDIO
EUT Model:	CD5030
EUT Trademark:	FUJITSU TEN
Input Voltage:	DC12V
Frequency:	/
Input Power/Current:	/
Output Voltage/Current:	/
Power Cable Description:	/

1.3 Support Equipment(s) and Test Configuration

1.3.1 Details of Support Equipment(s)

None

1.3.2 Working State of EUT

Base unit was supplied with rated input power DC12V.EUT works in normal state during conducted and radiated emission to simulate the maximum emission at typical situation. EUT works in hopping or non-hopping state during RF spectrum test according to the standard requirement.

1.4 Agency Approvals and Accreditations

CEPRI EMC Test Lab Building Test Facility Accreditations				
Country	Agency	Registration Number	Valid From	Valid Until
China	CNAS	L0462	2008-05-26	2011-05-25
United States	FCC	258518	2008-03-05	2010-03-04
Canada	IC	7437A	2008-01-17	2010-01-16

1.5 EUT Photographs





Continued



Continued

Section 2 Electromagnetic Emissions

2.1 Conducted Emission at Mains Terminals (N/A)

2.1.1 Conducted Emission Test Information

Temperature:	20°C	Humidity:	60% RH
ATM Pressure:	103 k Pa	Grounding:	No Grounding
Test Voltage:	DC12V	Tested Range:	150kHz to 30MHz
Tested by:	Liu Xin	Date of test:	/
Test Reference:	FCC Part 15-2008(Class B); RSS-210 Issue 7		
Results:	N/A		

2.1.2 Measurement Equipments Used for Conducted Emission

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI Test Receiver	R&S	ESCS30	100318	2008-06-08	2009-06-08
LISN	R&S	ESH3-Z5	640101042-02	2008-06-08	2009-06-08
Shielded Room	Lindgren	8*5*3	640101037-01	2008-06-08	2009-06-08

2.1.3. Test Data

N/A

2.2 Radiated Emission (30MHz-1GHz)

2.2.1 Radiated Emission Test Information

Temperature:	25°C	Humidity:	60% RH
ATM Pressure:	103 k Pa	Grounding:	No Grounding
Test Voltage:	DC12V	Tested Range:	30MHz to 1000MHz
Tested by:	Liu Xin	Test Distance:	3m
Date of test:	2009-02-24		
Test Reference:	FCC Part 15-2008(Class B) , RSS-210 Issue 7		
Results:	Pass		

2.2.2 Measurement Equipments Used for Radiated Emission

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI Test Receiver	R&S	ESCS30	640201042	2008-06-08	2009-06-08
Bi-ConiLog antenna	SCHAFFNER	CBL6112B	2877	2008-06-08	2009-06-08
Anechoic Chamber	ETS•Lindgren	RFSD-F-100	2693	2008-06-08	2009-06-08

2.2.3 Test Data

Working mode (Bluetooth transmitting)

Horizontal						
No.	Frequency (MHz)	Corrected QP Level dB (µV/m)	3 Meter Limits dB (µV/m)	Margin (dB)	Angle of Turner (degree)	Height of Tower (cm)
1	31.2	26.4	40.0	-13.6	112	187
2	112.9	33.2	43.5	-10.3	15	100
3	192.0	38.0	43.5	-5.5	186	170
4	288.0	34.3	46.0	-11.7	27	223
5	338.7	36.0	46.0	-10	346	231
6	389.5	41.8	46.0	-4.2	100	344
Vertical						
No.	Frequency (MHz)	Corrected QP Level dB(µV/m)	3 Meter Limits dB (µV/m)	Margin (dB)	Angle of Turner (degree)	Height of Tower (cm)
1	41.5	29.5	40.0	-10.5	12	123
2	118.6	34.4	43.5	-9.1	46	100
3	192.0	40.1	43.5	-3.4	100	175
4	304.8	34.1	46.0	-11.9	133	107
5	406.4	36.5	46.0	-9.5	158	222
6	643.5	34.8	46.0	-11.2	23	153

Note: The Corrected QP Level included The Cable attenuation and The Antenna Factor.

Standby mode(Bluetooth listening)

Horizontal						
No.	Frequency (MHz)	Corrected QP Level dB ($\mu\text{V}/\text{m}$)	3 Meter Limits dB ($\mu\text{V}/\text{m}$)	Margin (dB)	Angle of Turner (degree)	Height of Tower (cm)
1	33.5	27.3	40.0	-12.7	78	210
2	189.0	36.1	43.5	-7.4	113	147
3	343.3	37.5	46.0	-8.5	298	175
Vertical						
No.	Frequency (MHz)	Corrected QP Level dB($\mu\text{V}/\text{m}$)	3 Meter Limits dB ($\mu\text{V}/\text{m}$)	Margin (dB)	Angle of Turner (degree)	Height of Tower (cm)
1	41.7	31.0	40.0	-9.0	41	193
2	426.0	38.1	46.0	-7.9	262	213
3	672.3	35.6	46.0	-10.4	343	110

Note: The Corrected QP Level included The Cable attenuation and The Antenna Factor.

2.2.4 Test Setup



Radiated Emission Test Set-Up

/

2.3 Radiated Emission (Above 1GHz)

2.3.1 Radiated Emission Test Information

Temperature:	25°C	Humidity:	60% RH
ATM Pressure:	103 k Pa	Grounding:	No Grounding
Test Voltage:	DC12V	Tested Range:	1GHz to 26GHz
Tested by:	Liu Xin	Test Distance:	3m
Date of test:	2009-02-24		
Test Reference:	FCC Part 15-2008(Class B), RSS-210 Issue 7		
Results:	Pass		

2.3.2 Measurement Equipments Used for Radiated Emission

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Spectrum analyzer	R&S	ESU40	7561010010	2008-06-08	2009-06-08
Chamber	Lindgren	FACT-4	640101037	2008-06-08	2009-06-08
Antenna	EMCO	3115	640201028-08	2008-06-08	2009-06-08
Antenna	EMCO	3115	640201028-13	2008-06-08	2009-06-08

2.3.3 Test Data

Working mode (Bluetooth transmitting)

Vertical (Low channel: 2402MHz)									
No.	Frequency (GHz)	Level (dBm)		Limits		Margin (dB)		Angle of Turner (degree)	Height of Tower (cm)
		PK	AV	PK	AV	PK	AV		
1	1-26	/	/	74.0	54.0	/	/	/	/
Vertical (Middle channel: 2441MHz)									
No.	Frequency (GHz)	Level (dBm)		Limits		Margin (dB)		Angle of Turner (degree)	Height of Tower (cm)
		PK	AV	PK	AV	PK	AV		
1	1-26	/	/	74.0	54.0	/	/	/	/
Vertical (High channel: 2441MHz)									
No.	Frequency (GHz)	Level (dBm)		Limits		Margin (dB)		Angle of Turner (degree)	Height of Tower (cm)
		PK	AV	PK	AV	PK	AV		
1	1-26	/	/	74.0	54.0	/	/	/	/

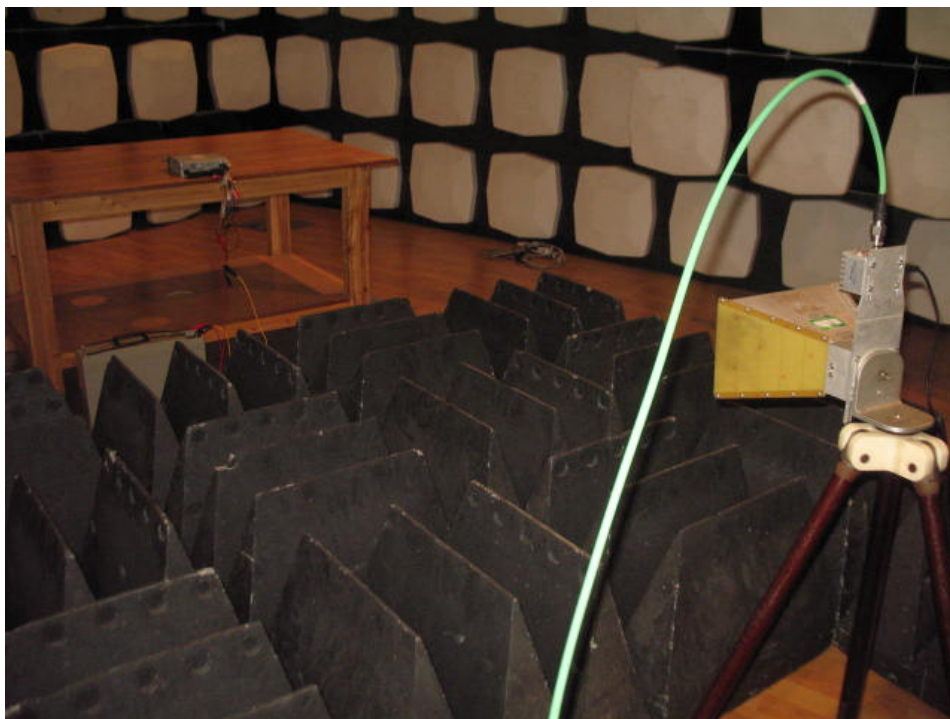
Standby mode (Bluetooth Listening)

Vertical									
No.	Frequency (GHz)	Level (dBm)		Limits		Margin (dB)		Angle of Turner (degree)	Height of Tower (cm)
		PK	AV	PK	AV	PK	AV		
1	1-26	/	/	74.0	54.0	/	/	/	/

Note:

1. In pre-scan, the maximum radiated emissions were appearing with antenna in vertical polarity. So the test result only recorded data with the antenna in vertical polarity.
2. It is considered that if the Peak level meets the average limits also means the average result meets the requirement of the average limit. No average measurement is required.
3. Remark "/" means the emission level is too low to be measured.

2.3.4 Test Setup



Radiated Emission Test Set-Up

2.4 Antenna Requirement

2.4.1 Antenna Requirement Test Information

Temperature:	25°C	Humidity:	60% RH
ATM Pressure:	103 k Pa	Grounding:	No Grounding
Test Voltage:	/		
Tested by:	Liu Xin		
Date of test:	2009-02-24		
Test Reference:	FCC Part 15-2008(Class B), RSS-210 Issue 7 For intentional device, according to 15.203, and intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.		
Results:	Pass		

2.4.2 Test Data



The antenna cannot be replaced for the antenna is fix inside the device.

2.5 Hopping Channel Separation

2.5.1 Hopping Channel Separation Test Information

Temperature:	25°C	Humidity:	60% RH
ATM Pressure:	103 k Pa	Grounding:	No Grounding
Test Voltage:	DC12V		
Tested by:	Liu Xin		
Date of test:	2009-02-24		
Test Reference:	FCC Part 15-2008, RSS-210 Issue 7 According to 15.247(a)(1), frequency hopping system shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater		
Results:	Pass		

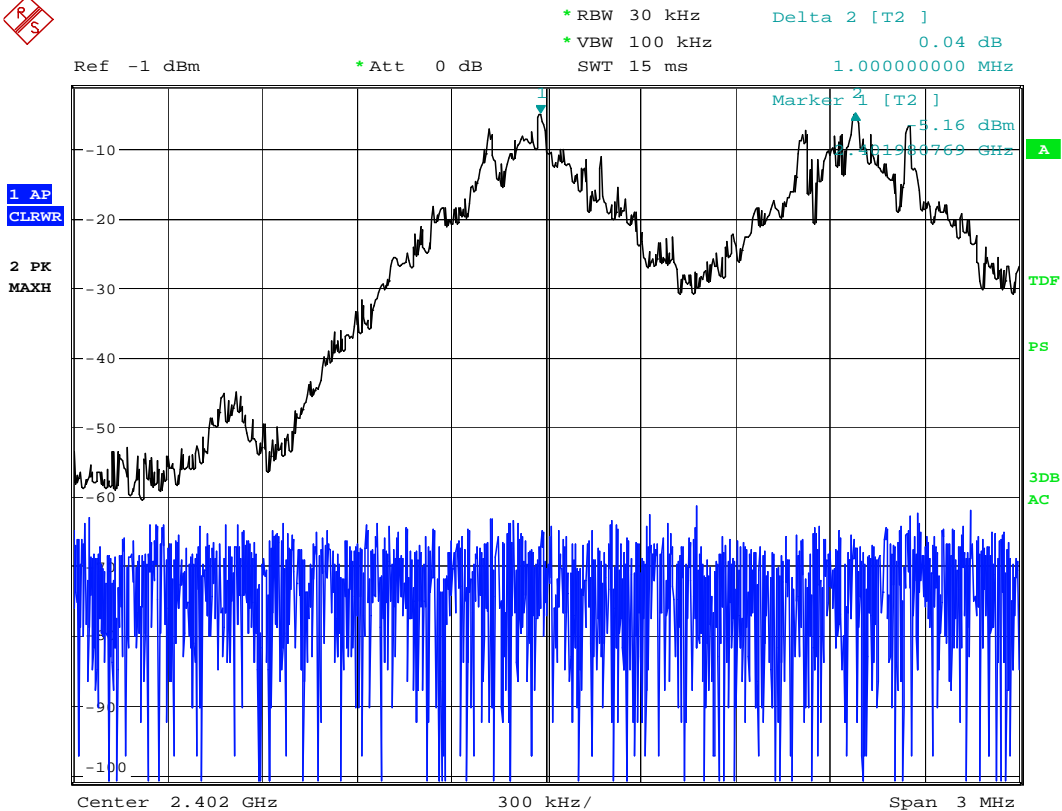
2.5.2 Measurement Equipments Used for Radiated Emission

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Spectrum analyzer	R&S	ESU40	7561010010	2008-06-08	2009-06-08

2.3.3 Test Data

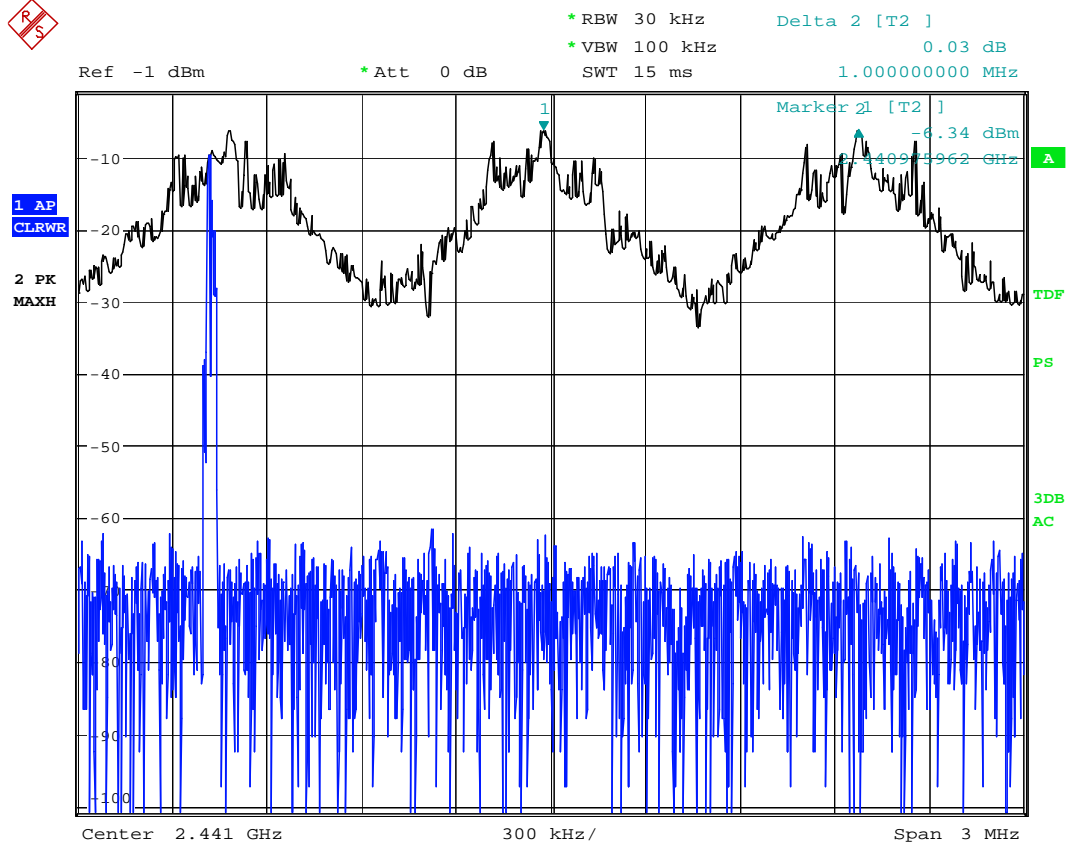
Channel	Hopping channel separation
Low channel	1MHz
Middle channel	1MHz
High channel	1MHz

Graphic data (low channel)



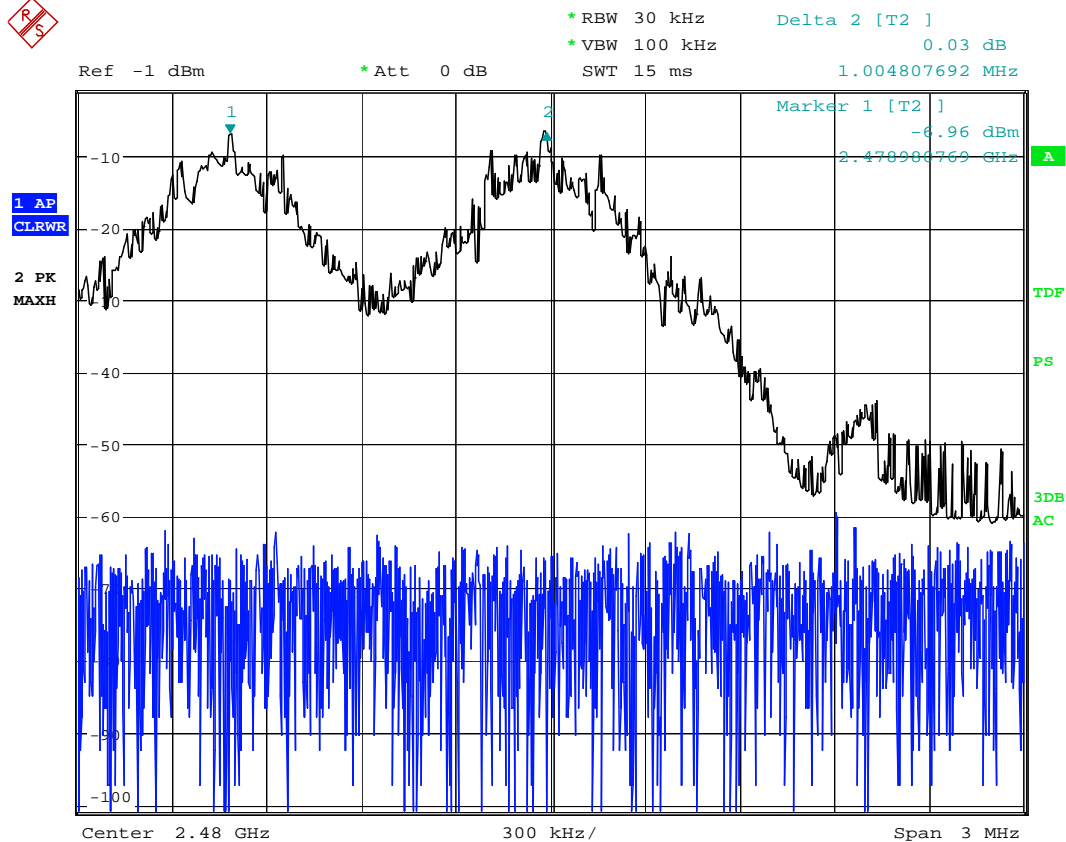
Date: 24.FEB.2009 16:54:13

Graphic data (Middle channel)



Date: 24.FEB.2009 16:56:30

Graphic data (High channel)



Date: 24.FEB.2009 16:58:57

2.6 Number of Hopping Frequency Used

2.6.1 Number of Hopping Frequency Used Test Information

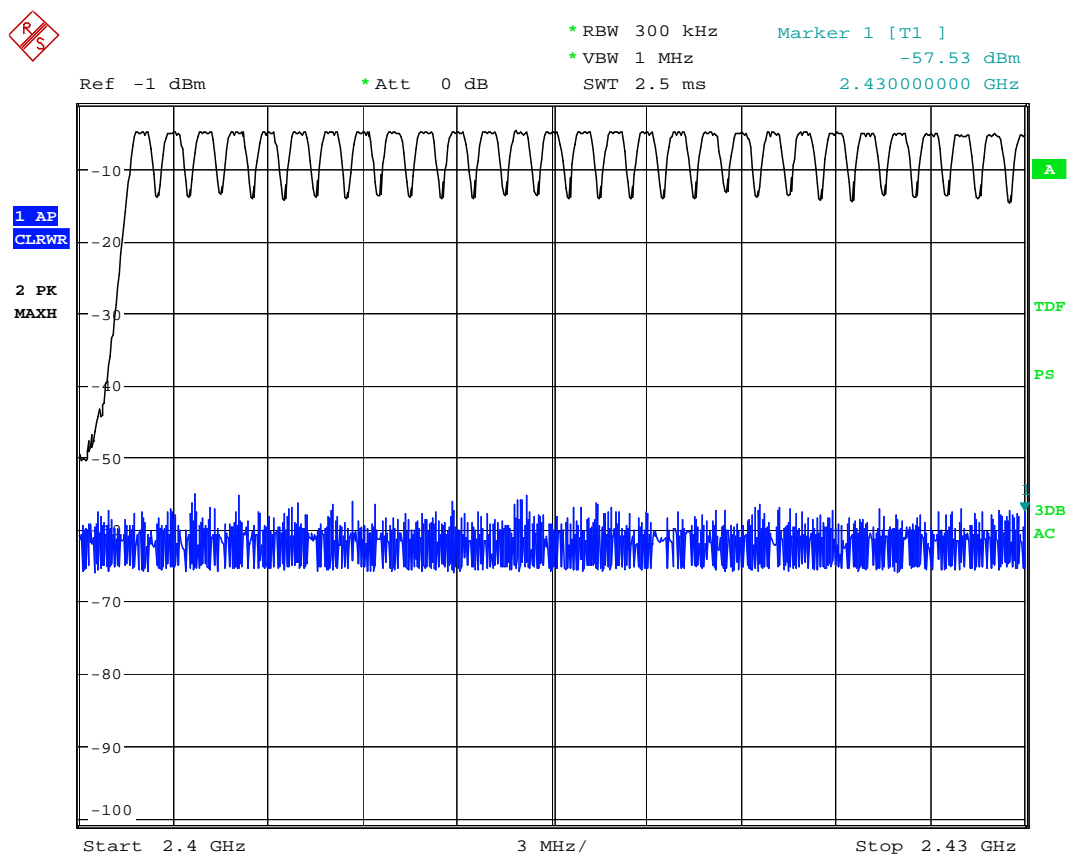
Temperature:	25°C	Humidity:	60% RH
ATM Pressure:	103 k Pa	Grounding:	No Grounding
Test Voltage:	DC12V		
Tested by:	Liu Xin		
Date of test:	2009-02-24		
Test Reference:	FCC Part 15-2008, RSS-210 Issue 7 According to 15.247(a)(1), frequency hopping system in the 2400-2483.5MHz band shall use at least 15 non-overlapping channels		
Results:	Pass		

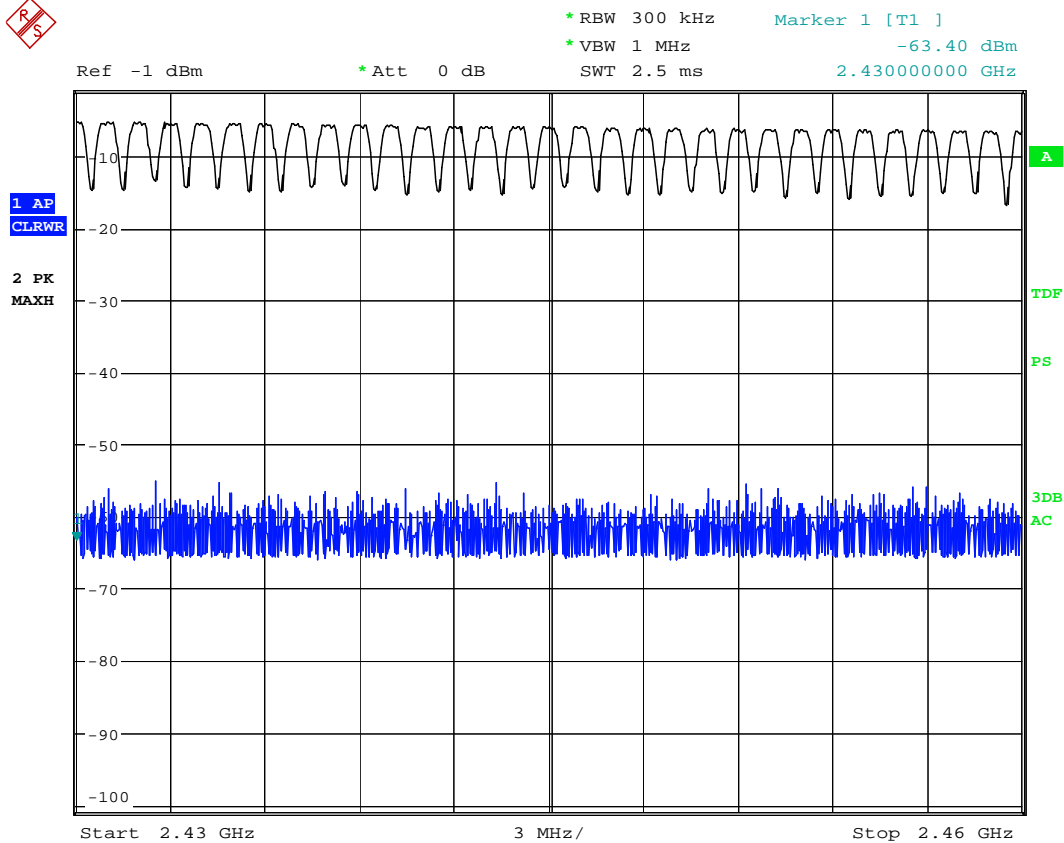
2.6.2 Measurement Equipments Used for Radiated Emission

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Spectrum analyzer	R&S	ESU40	7561010010	2008-06-08	2009-06-08

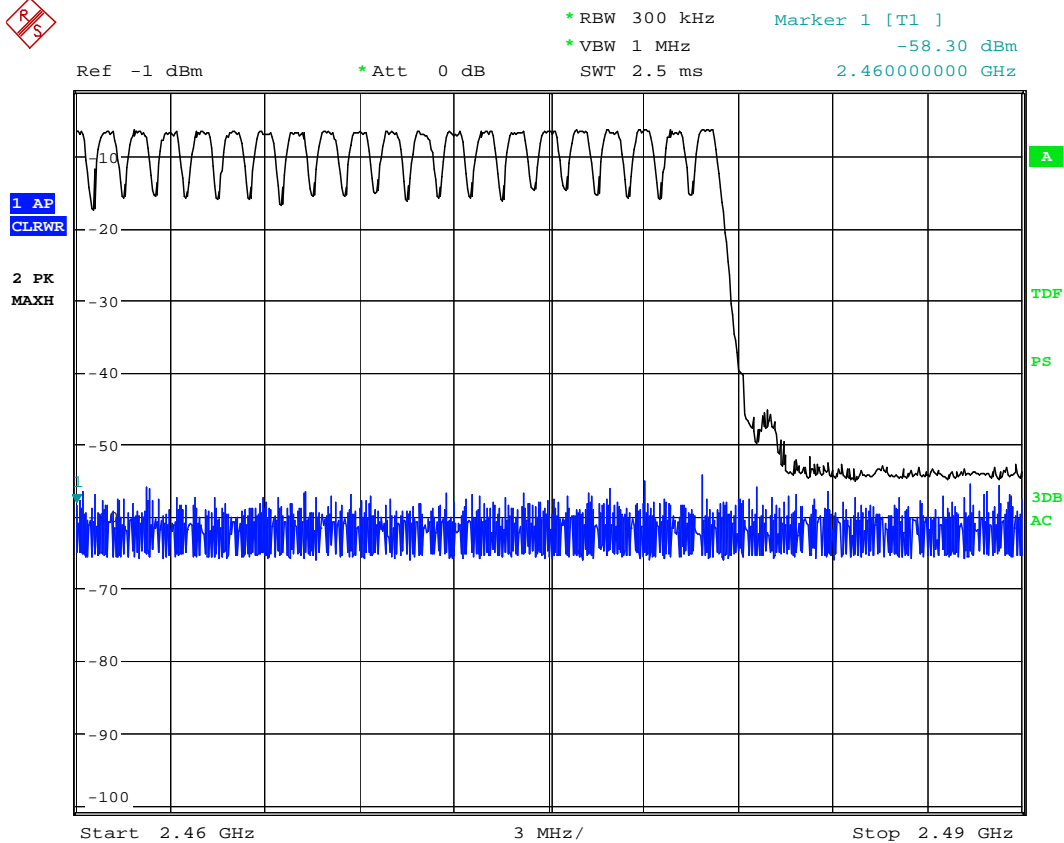
2.6.3 Test Data

79 hopping frequencies used





Date: 24.FEB.2009 16:32:27



Date: 24.FEB.2009 16:34:04

2.7 Channel Bandwidth

2.7.1 Channel Bandwidth Test information

Temperature:	25°C	Humidity:	60% RH
ATM Pressure:	103 k Pa	Grounding:	No Grounding
Test Voltage:	DC12V		
Tested by:	Liu Xin		
Date of test:	2009-02-24		
Test Reference:	<p>FCC Part 15-2008, RSS-210 Issue 7 According to 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly 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.</p>		
Results:	Pass		

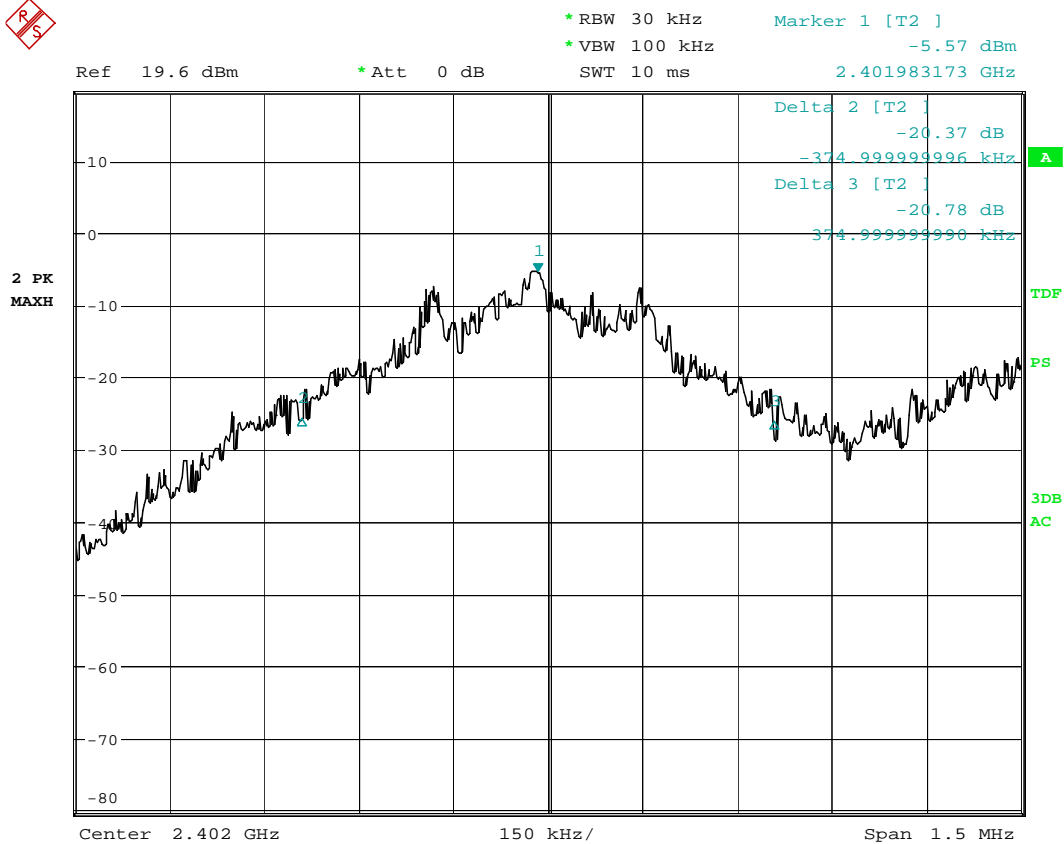
2.7.2 Measurement Equipments

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Spectrum analyzer	R&S	ESU40	7561010010	2008-06-08	2009-06-08

2.7.3 Test Data

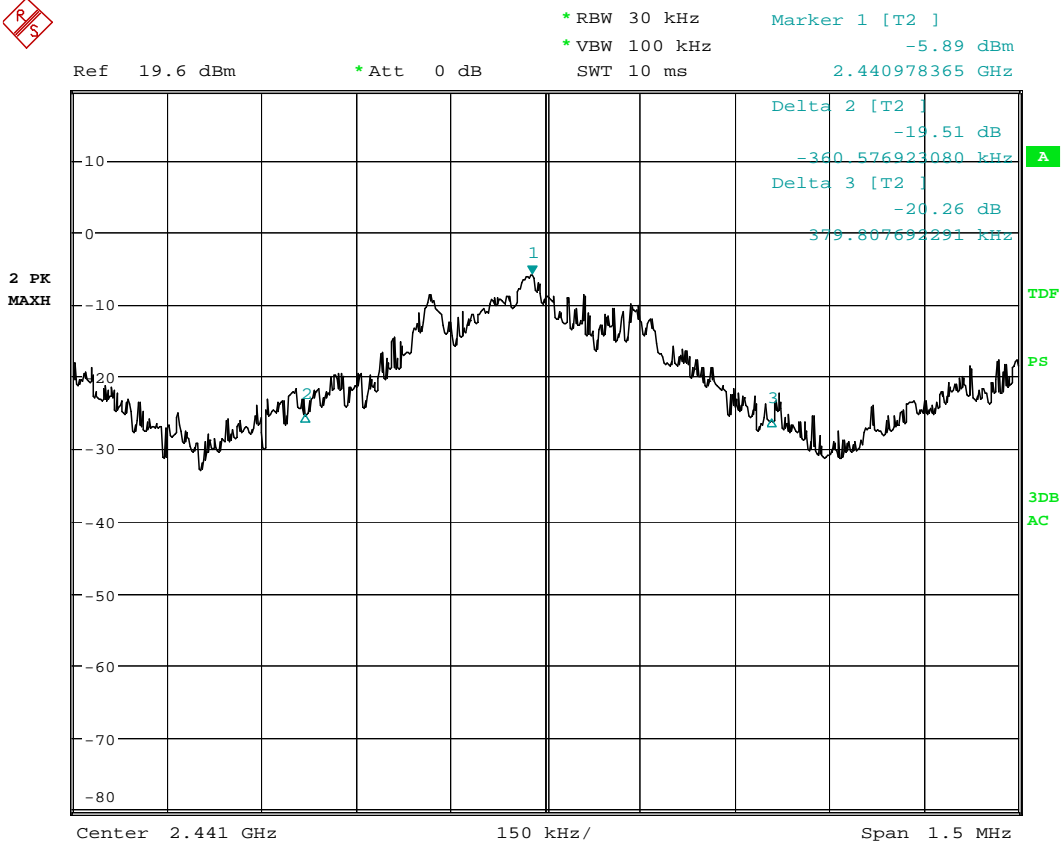
Channel	Hopping channel separation
Low channel	750.0kHz
Middle channel	740.4kHz
High channel	812.5kHz

Graphic data (Low channel)



Date: 24.FEB.2009 17:13:12

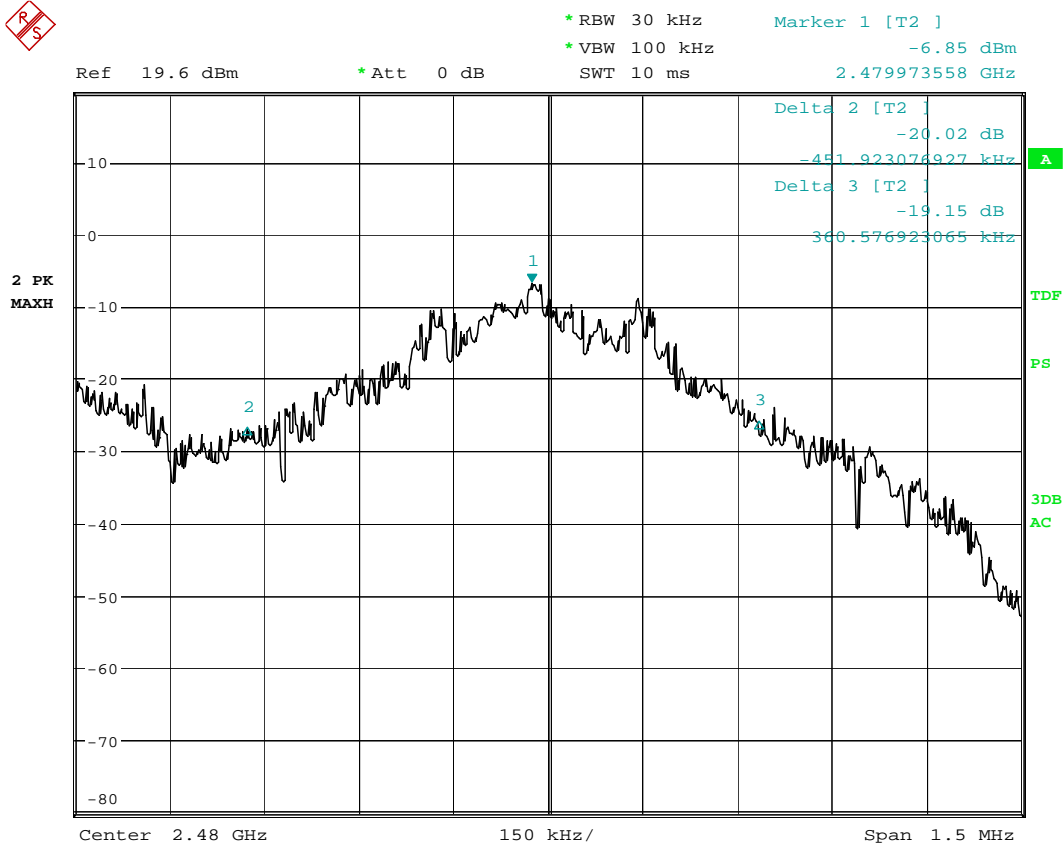
Graphic data (Middle channel)



Date: 24.FEB.2009 17:16:25

E

Graphic data (High channel)



Date: 24.FEB.2009 17:18:38

2.8 Dwell Time of Each Frequency

2.8.1 Dwell Time of Each Frequency Test information

Temperature:	25°C	Humidity:	60% RH
ATM Pressure:	103 k Pa	Grounding:	No Grounding
Test Voltage:	DC12V		
Tested by:	Liu Xin		
Date of test:	2009-02-24		
Test Reference:	FCC Part 15-2008, RSS-210 Issue 7 According to 15.247(a)(1)(iii), for frequency hopping system operating in the 2400-2483.5 band, 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.		
Results:	Pass		

2.8.2 Measurement Equipments

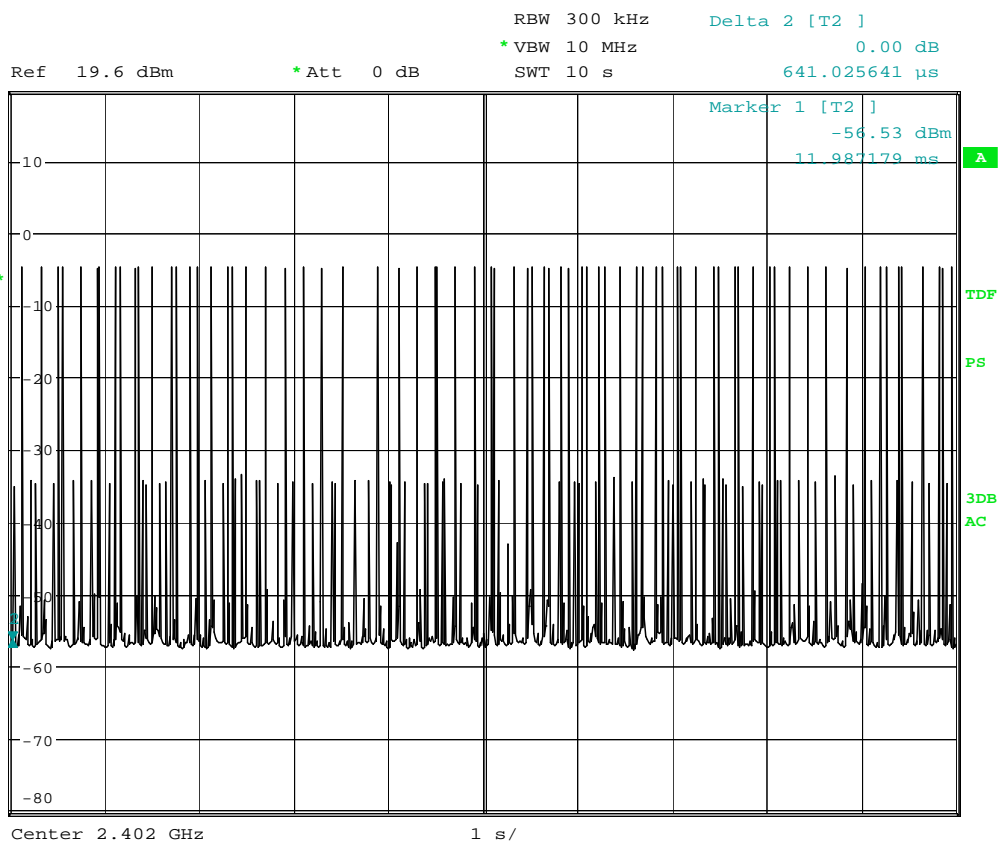
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Spectrum analyzer	R&S	ESU40	7561010010	2008-06-08	2009-06-08

2.8.3 Test Data

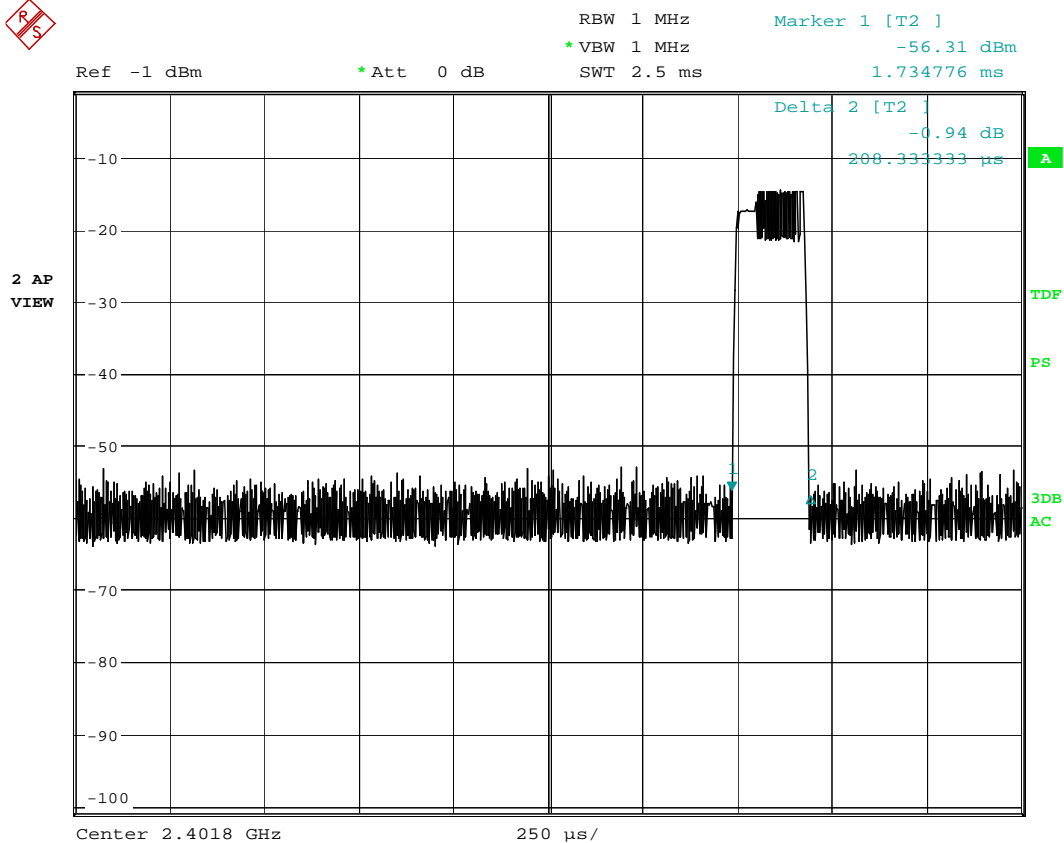
Channel	Hopping channel separation
Low channel	50x3x1.73=259.5ms
Middle channel	50x3x0.64=96.0ms
High channel	50x3x0.64=96.0ms

Conclusion: In any 30s period, the maximum dwell time per channel is 259.5ms, which is less than 0.4 seconds required by the standard. The result meets the requirement.

Graphic data (low channel)

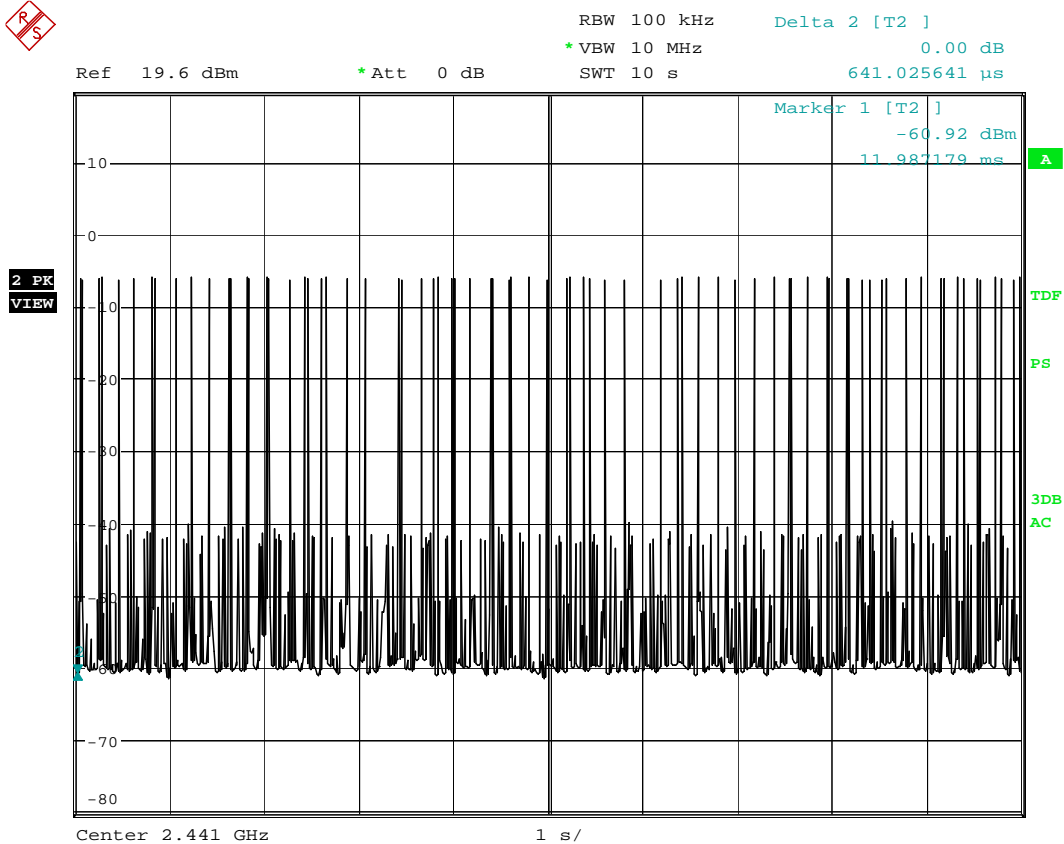


Date: 24.FEB.2009 17:40:09

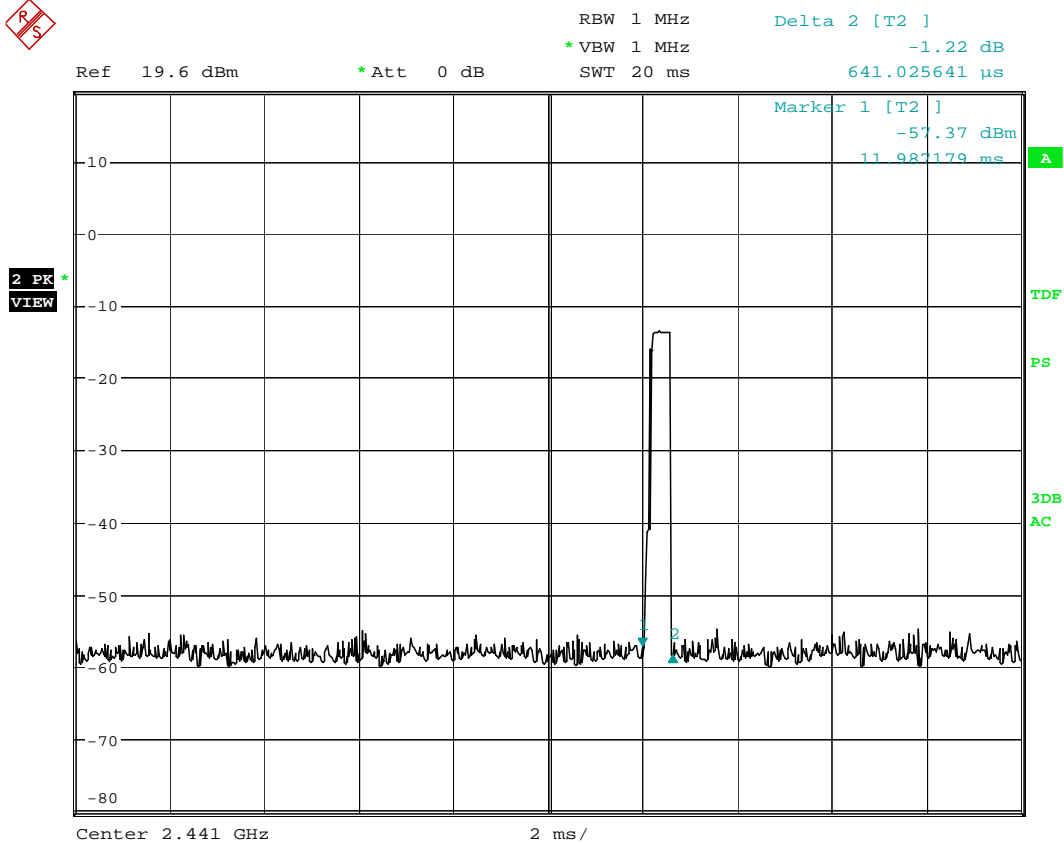


Date: 24.FEB.2009 16:41:13

Graphic data (middle channel)

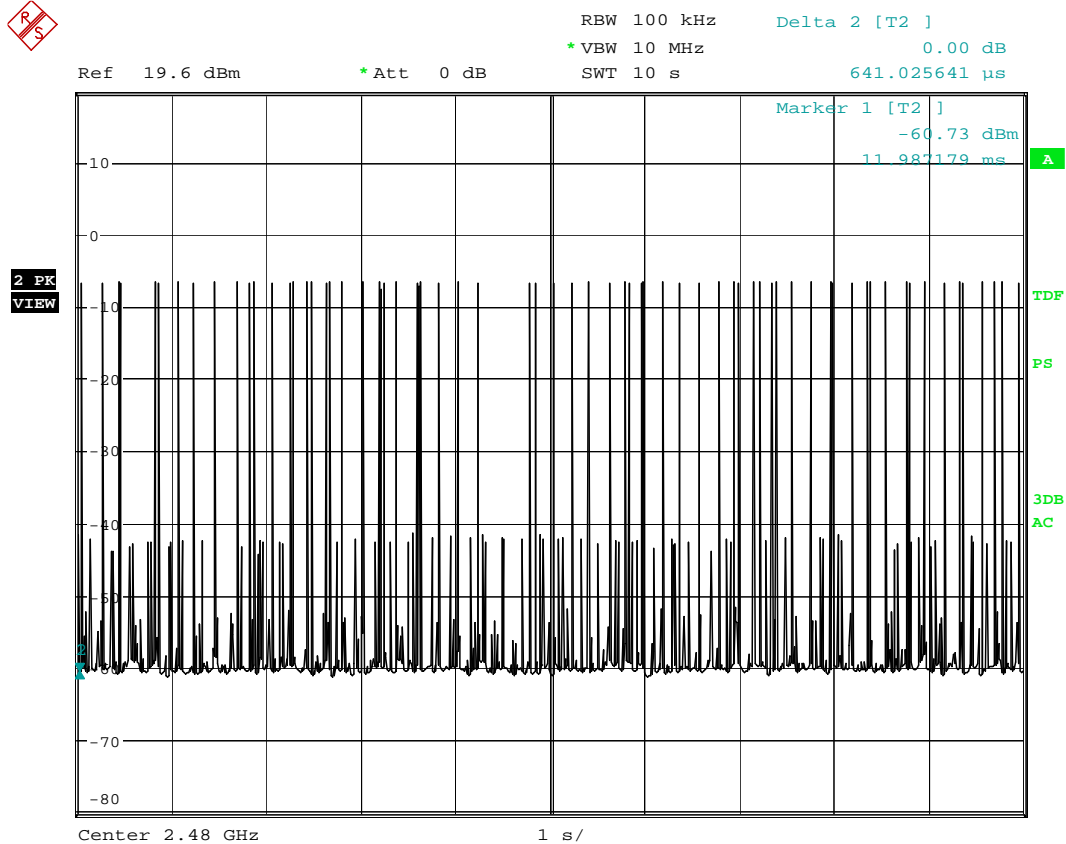


Date: 24.FEB.2009 17:40:59

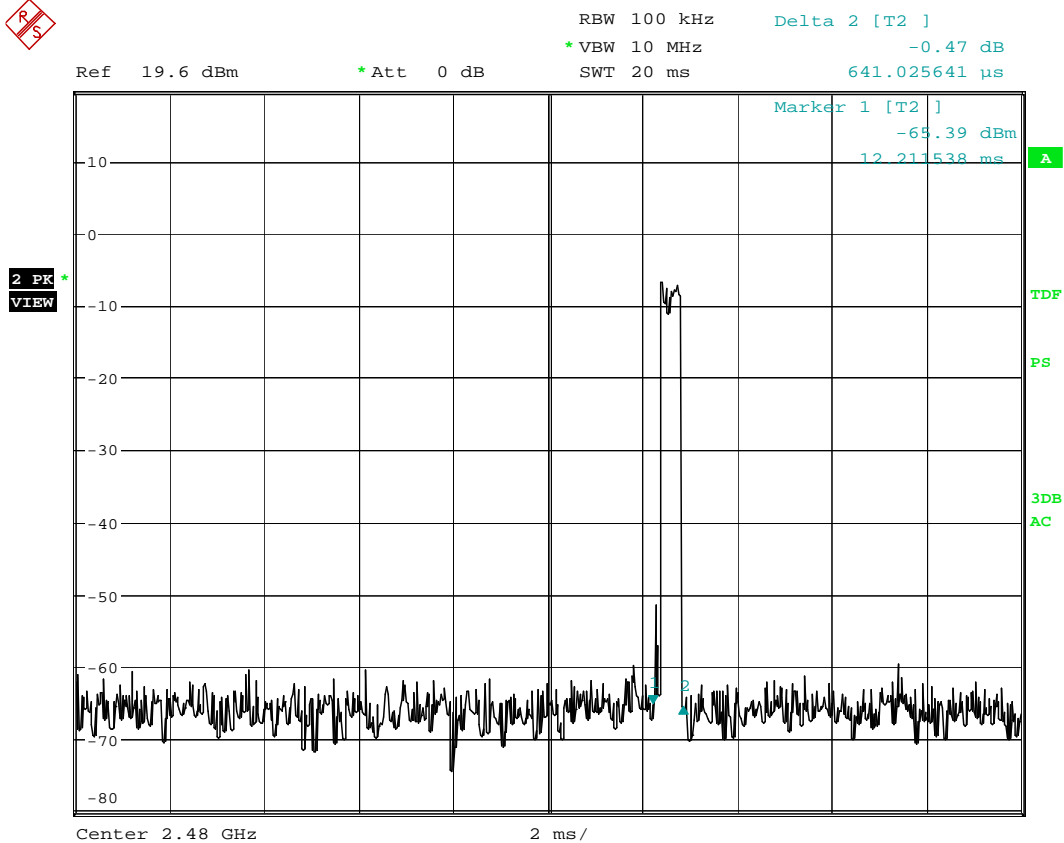


Date: 24.FEB.2009 17:33:26

Graphic data (high channel)



Date: 24.FEB.2009 17:42:37



Date: 24.FEB.2009 17:45:15

2.9 Output Power Requirement

2.9.1 Output Power Test information

Temperature:	25°C	Humidity:	60% RH
ATM Pressure:	103 k Pa	Grounding:	No Grounding
Test Voltage:	DC12V		
Tested by:	Liu Xin		
Date of test:	2009-02-24		
Test Reference:	FCC Part 15-2008, RSS-210 Issue 7 According to 15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 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.		
Results:	Pass		

2.9.2 Measurement Equipments

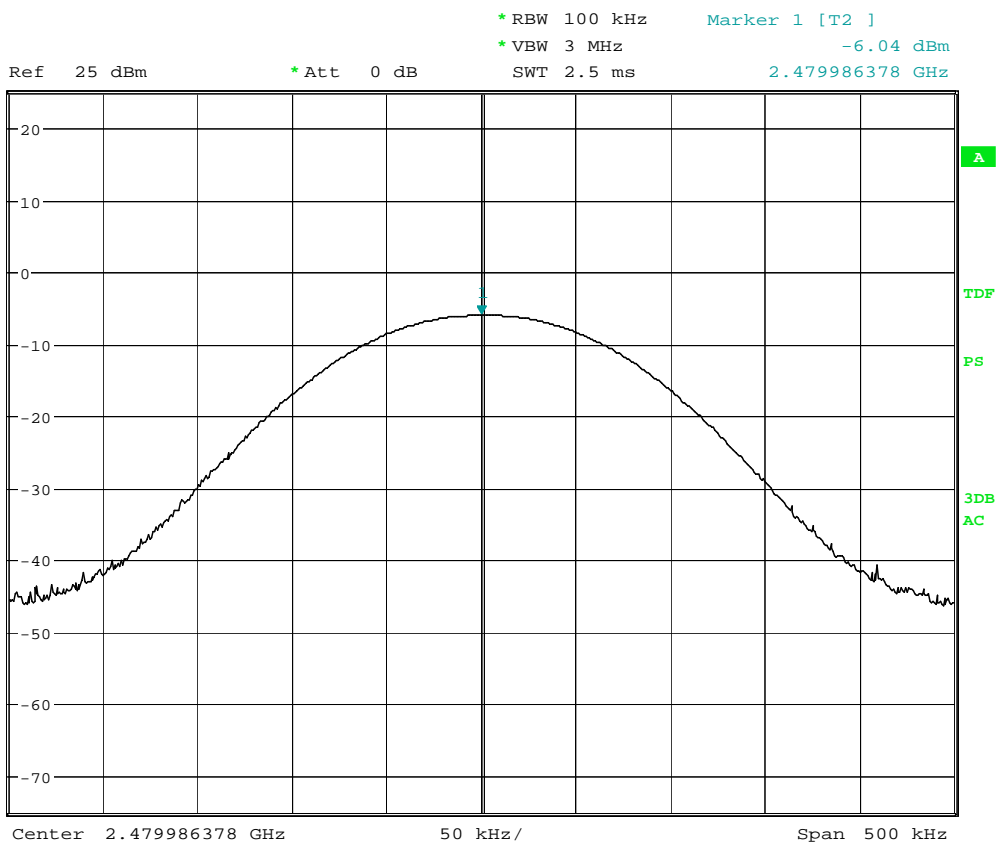
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Spectrum analyzer	R&S	ESU40	7561010010	2008-06-08	2009-06-08

2.9.3 Test Data

Channel	Output Peak Power
Low channel	-4.93+6=1.17dBm=1.309mW
Middle channel	-5.90+6=0.1dBm=1.002mW
High channel	-6.04+6=-0.1 dBm=0.998mW

Note: Cable loss=6.0dB

Graphic data (High channel)



Date: 24.FEB.2009 18:14:37

Note: Graphic data did not include cable loss

2.10 100kHz Bandwidth of Frequency Band Edges Requirement

2.10.1 100kHz Bandwidth of Frequency Band Edges Test Information

Temperature:	25°C	Humidity:	60% RH
ATM Pressure:	103 k Pa	Grounding:	No Grounding
Test Voltage:	DC12V		
Tested by:	Liu Xin		
Date of test:	2009-02-24		
Test Reference:	<p>FCC Part 15-2008, RSS-210 Issue 7 According to 15.247(c), 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. Attenuation below the general limits specified in Section 15.209(a) is not required.</p>		
Results:	Pass		

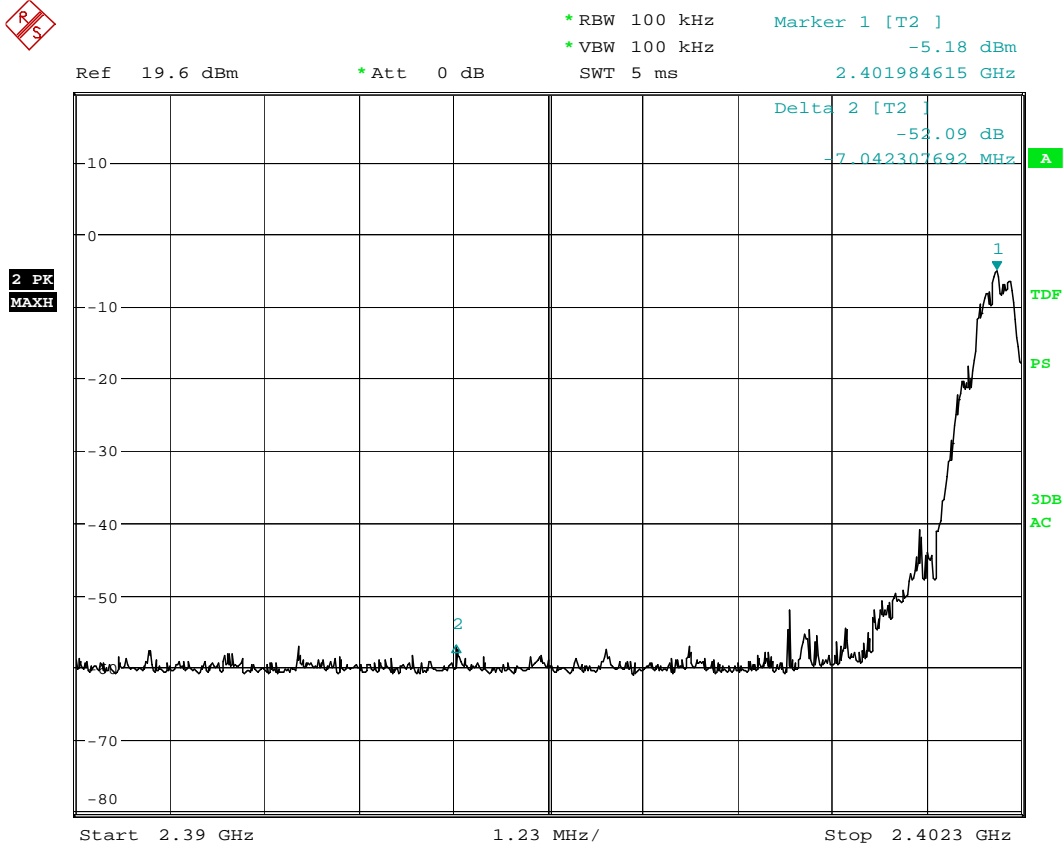
2.10.2 Measurement Equipments

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Spectrum analyzer	R&S	ESU40	7561010010	2008-06-08	2009-06-08

2.10.3 Test Data

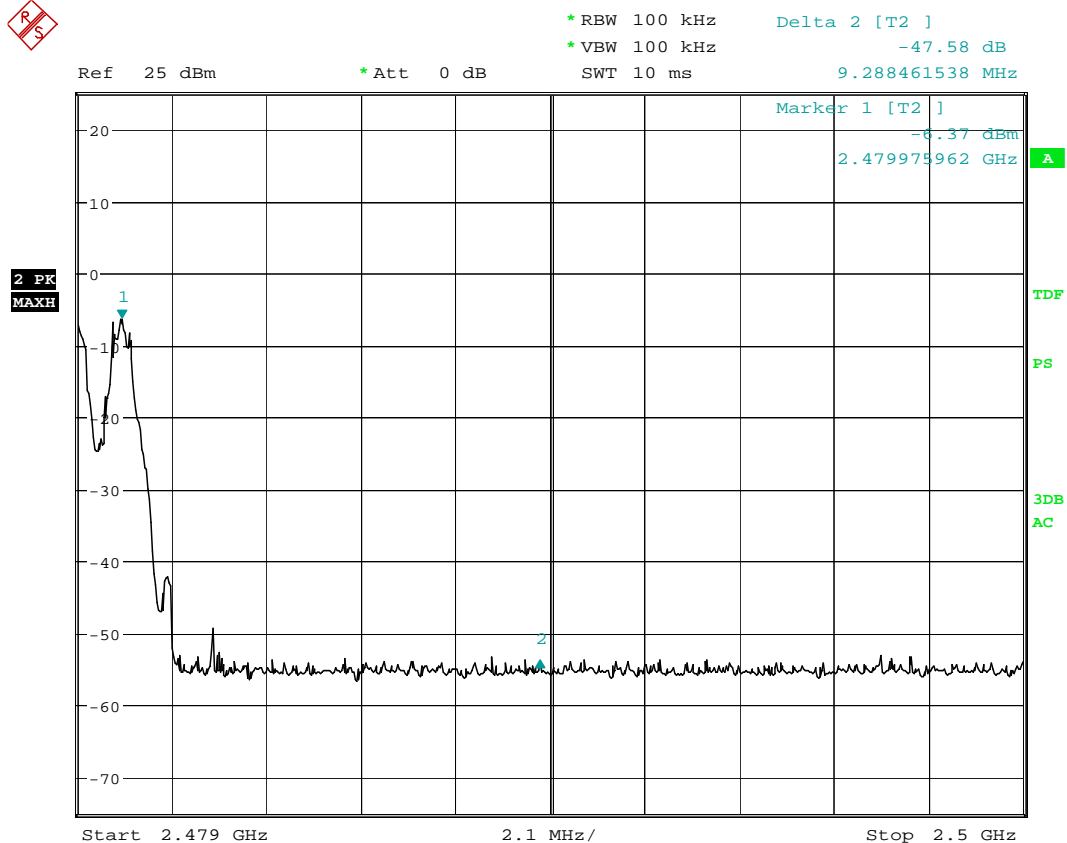
Channel	Result
Lower Band Edge	All emission in 100kHz bandwidth are attenuated more than 20dB from the carrier
Higher Band Edge	All emission in 100kHz bandwidth are attenuated more than 20dB from the carrier

Graphic data (Lower Band Edge)



Date: 24.FEB.2009 17:50:27

Graphic data (Higher Band Edge)



Date: 24.FEB.2009 17:55:52

2.11 Out-of-Band Conducted Emission Requirement

2.11.1 Out-of-Band Conducted Emission Test information

Temperature:	25°C	Humidity:	60% RH
ATM Pressure:	103 k Pa	Grounding:	No Grounding
Test Voltage:	DC12V		
Tested by:	Liu Xin		
Date of test:	2009-02-24		
Test Reference:	<p>FCC Part 15-2008, RSS-210 Issue 7 According to 15.247(c), 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. Attenuation below the general limits specified in Section 15.209(a) is not required.</p>		
Results:	Pass		

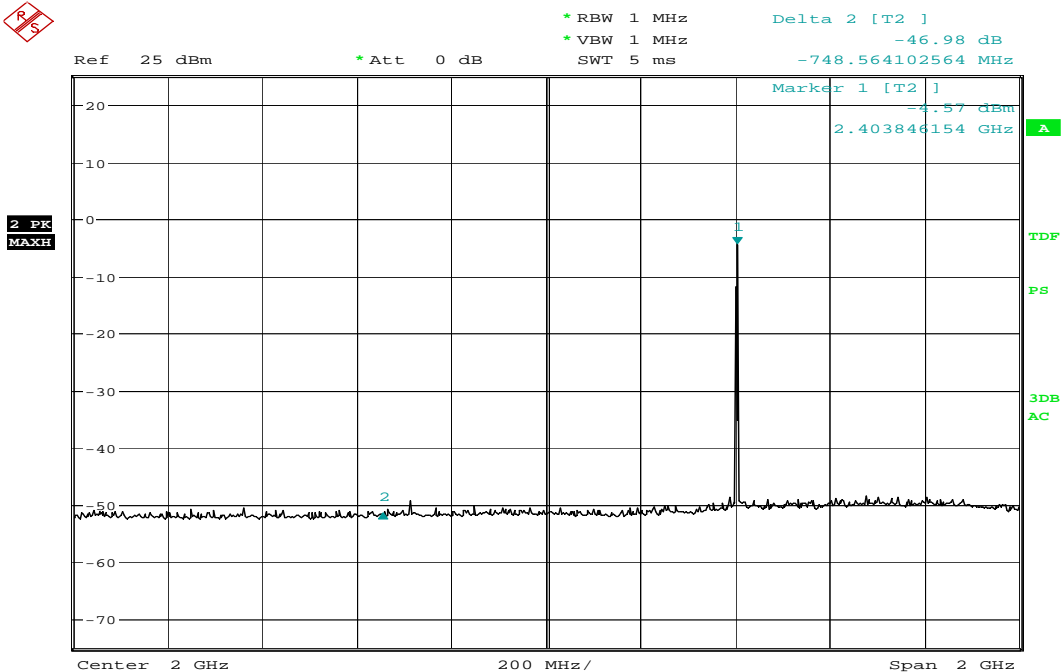
2.11.2 Measurement Equipments

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Spectrum analyzer	R&S	ESU40	7561010010	2008-06-08	2009-06-08

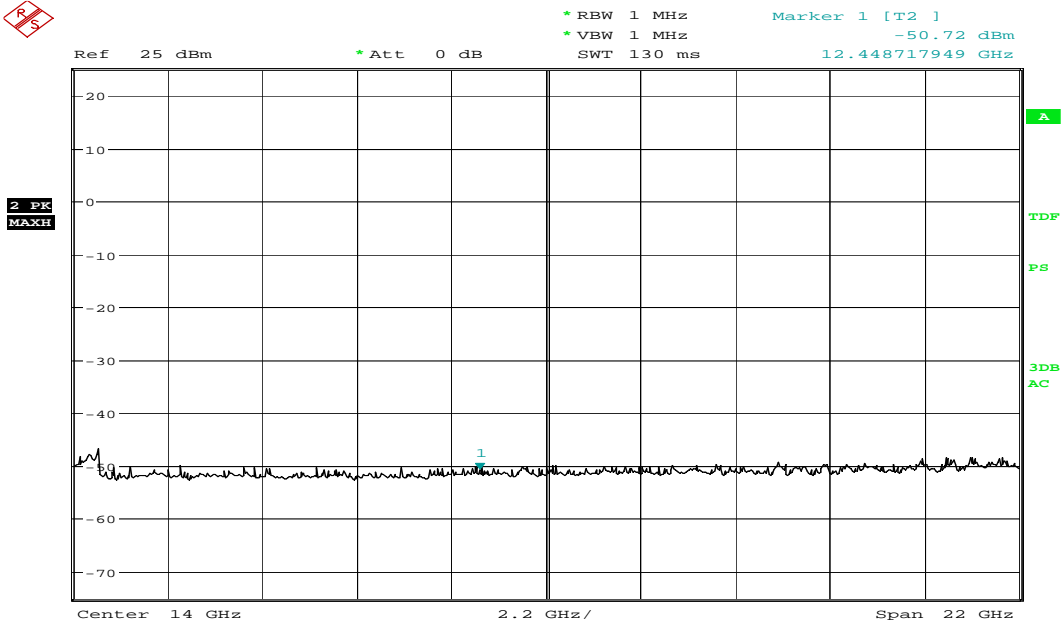
2.11.3 Test Data

Channel	Result
Low Channel	All emission are attenuated more than 20dB from the carrier
Middle Channel	All emission are attenuated more than 20dB from the carrier
High Channel	All emission are attenuated more than 20dB from the carrier

Graphicdata (Low channel)

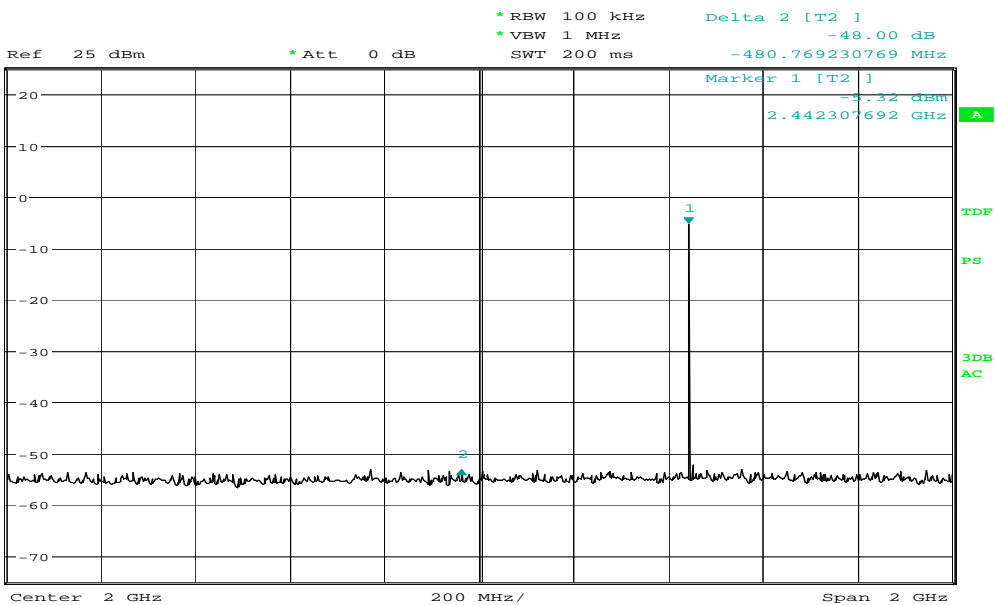


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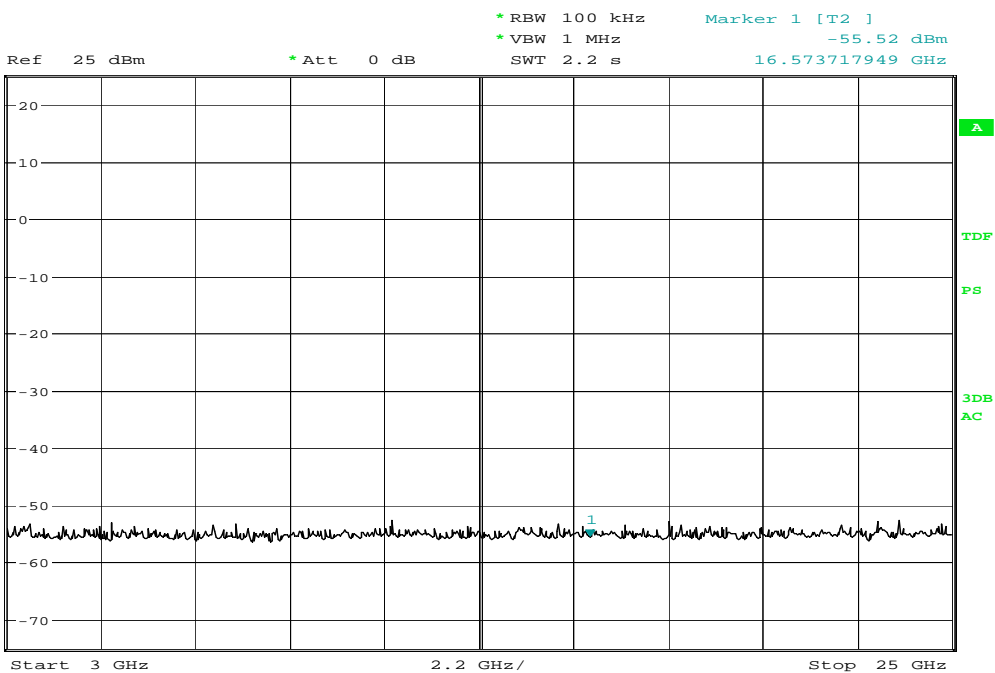


Date: 24.FEB.2009 18:09:32

Graphic data (middle channel)



Date: 24.FEB.2009 18:10:26



Date: 24.FEB.2009 18:11:01

