

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
SKYTEX Technology Inc.

MID
Model No.: SP712, SP-705, ST-7012

FCC ID: G4O-SP712

Prepared for : SKYTEX Technology Inc.
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Report Number : ATE20122309
Date of Test : September 28-October 26, 2012
Date of Report : October 26, 2012

TABLE OF CONTENTS

Description	Page
Test Report Certification	
1. GENERAL INFORMATION	5
1.1. Description of Device (EUT).....	5
1.2. Carrier Frequency of Channels	6
1.3. Test Procedure	6
1.4. Special Accessory and Auxiliary Equipment	6
1.5. Description of Test Facility	6
1.6. Measurement Uncertainty	7
2. MEASURING DEVICE AND TEST EQUIPMENT	8
3. OPERATION OF EUT DURING TESTING	9
3.1. Operating Mode	9
3.2. Configuration and peripherals	10
4. TEST PROCEDURES AND RESULTS	11
5. 6DB BANDWIDTH MEASUREMENT.....	12
5.1. Block Diagram of Test Setup.....	12
5.2. The Requirement For Section 15.247(a)(2).....	12
5.3. EUT Configuration on Measurement	12
5.4. Operating Condition of EUT	12
5.5. Test Procedure	13
5.6. Test Result	13
6. MAXIMUM PEAK OUTPUT POWER	27
6.1. Block Diagram of Test Setup.....	27
6.2. The Requirement For Section 15.247(b)(3).....	27
6.3. EUT Configuration on Measurement	27
6.4. Operating Condition of EUT	27
6.5. Test Procedure	28
6.6. Test Result	28
7. POWER SPECTRAL DENSITY MEASUREMENT	38
7.1. Block Diagram of Test Setup.....	38
7.2. The Requirement For Section 15.247(e).....	38
7.3. EUT Configuration on Measurement	38
7.4. Operating Condition of EUT	38
7.5. Test Procedure	38
7.6. Test Result	38
8. BAND EDGE COMPLIANCE TEST	38
8.1. Block Diagram of Test Setup.....	38
8.2. The Requirement For Section 15.247(d)	38
8.3. EUT Configuration on Measurement	38
8.4. Operating Condition of EUT	38
8.5. Test Procedure	38
8.6. Test Result	38
9. RADIATED SPURIOUS EMISSION TEST	38
9.1. Block Diagram of Test Setup.....	38
9.2. The Limit For Section 15.247(d)	38
9.3. Restricted bands of operation	38

9.4.	Configuration of EUT on Measurement	38
9.5.	Operating Condition of EUT	38
9.6.	Test Procedure	38
9.7.	The Field Strength of Radiation Emission Measurement Results	38
10.	CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST	38
10.1.	Block Diagram of Test Setup.....	38
10.2.	The Requirement For Section 15.247(d)	38
10.3.	EUT Configuration on Measurement	38
10.4.	Operating Condition of EUT	38
10.5.	Test Procedure	38
10.6.	Test Result	38
11.	AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A) ..	38
11.1.	Block Diagram of Test Setup.....	38
11.2.	The Emission Limit	38
11.3.	Configuration of EUT on Measurement	38
11.4.	Operating Condition of EUT	38
11.5.	Test Procedure	38
11.6.	Power Line Conducted Emission Measurement Results	38
12.	ANTENNA REQUIREMENT.....	38
12.1.	The Requirement	38
12.2.	Antenna Construction	38

Test Report Certification

Applicant : SKYTEX Technology Inc.
Manufacturer : NEXGEN GLOBAL LIMITED
EUT Description : MID
(A) MODEL NO.: SP712, SP-705, ST-7012
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: DC 3.7V (Li-polymer battery) & AC 120V/60Hz
(Adapter input)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4: 2009

The EUT was tested according to DTS test procedure of October 04, 2012 KDB558074 D01
DTS Meas Guidance v02 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : September 28-October 26, 2012

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	MID
Model Number	:	SP712, SP-705, ST-7012 (Note: These samples are same except for the appearance is difference. So we prepare the SP712 for FCC test.)
Frequency Range	:	802.11b/g/n(20MHz): 2412-2462MHz 802.11n(40MHz): 2422-2452MHz
Number of Channels	:	802.11b/g/n (20MHz):11 802.11n (40MHz): 7
Antenna Gain	:	0dBi
Power Supply	:	DC 3.7V (Li-polymer battery) & AC 120V/60Hz (Adapter input)
Adapter	:	Model number: AW018WR-0500200UV Input: AC 100-240V; 50/60Hz 0.5A Output: DC 5V/2.0A Output line: Non-shielded, Non-detachable, 1.45m with a ferrite core
Data Rate	:	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: up to 150Mbps
Applicant	:	SKYTEX Technology Inc.
Address	:	1900 Proforma Ave., #F-1, Ontario, California, United States
Manufacturer	:	NEXGEN GLOBAL LIMITED
Address	:	FLAT/RM 2001 20/F CHINACHEM JOHNSTON PLAZA 186 JOHNSTON ROAD HONG KONG
Date of sample received	:	September 28, 2012
Date of Test	:	September 28-October 26, 2012

1.2.Carrier Frequency of Channels

802.11b, 802.11g, 802.11n (20MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---

802.11n (40MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
03	2422	09	2452
04	2427	---	---
05	2432	---	---
06	2437	---	---

1.3.Test Procedure

The EUT was tested according to DTS test procedure of October 04, 2012 KDB558074 D01 DTS Meas Guidance v02 for compliance to FCC 47CFR 15.247 requirements

1.4.Special Accessory and Auxiliary Equipment

N/A

1.5.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories

The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.6.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty
(9kHz-30MHz) = 3.08dB, k=2

Radiated emission expanded uncertainty
(30MHz-1000MHz) = 4.42dB, k=2

Radiated emission expanded uncertainty
(Above 1GHz) = 4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 8, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 8, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 8, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 8, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 8, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 8, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 8, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 8, 2012	Jan. 7, 2013
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 8, 2012	Jan. 7, 2013
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 8, 2012	Jan. 7, 2013

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: **1.802.11b Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

2.802.11g Transmitting mode

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

3.802.11n (20MHz) Transmitting mode

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

4.802.11n (40MHz) Transmitting mode

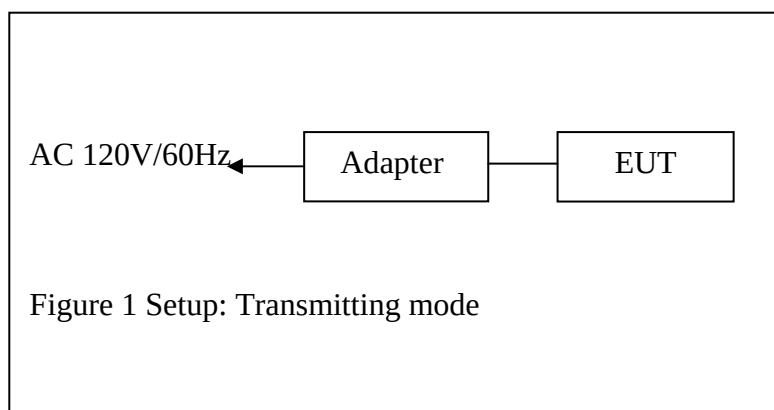
Low Channel: 2422MHz

Middle Channel: 2437MHz

High Channel: 2452MHz

5. Charging

3.2.Configuration and peripherals

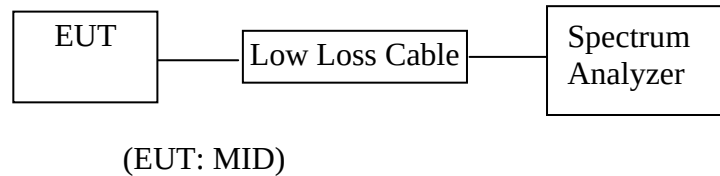


4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.247(d)	Conducted Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 6DB BANDWIDTH MEASUREMENT

5.1. Block Diagram of Test Setup



5.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1. MID (EUT)

Model Number	:	SP712
Serial Number	:	N/A
Manufacturer	:	NEXGEN GLOBAL LIMITED

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

5.5. Test Procedure

1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.6. Test Result

PASS.

Date of Test:	<u>October 26, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>SP712</u>	Power Supply:	<u>AC 120V/60HZ</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Pei</u>

The test was performed with 802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	10.12	> 0.5MHz
Middle	2437	10.12	> 0.5MHz
High	2462	10.12	> 0.5MHz

The test was performed with 802.11g

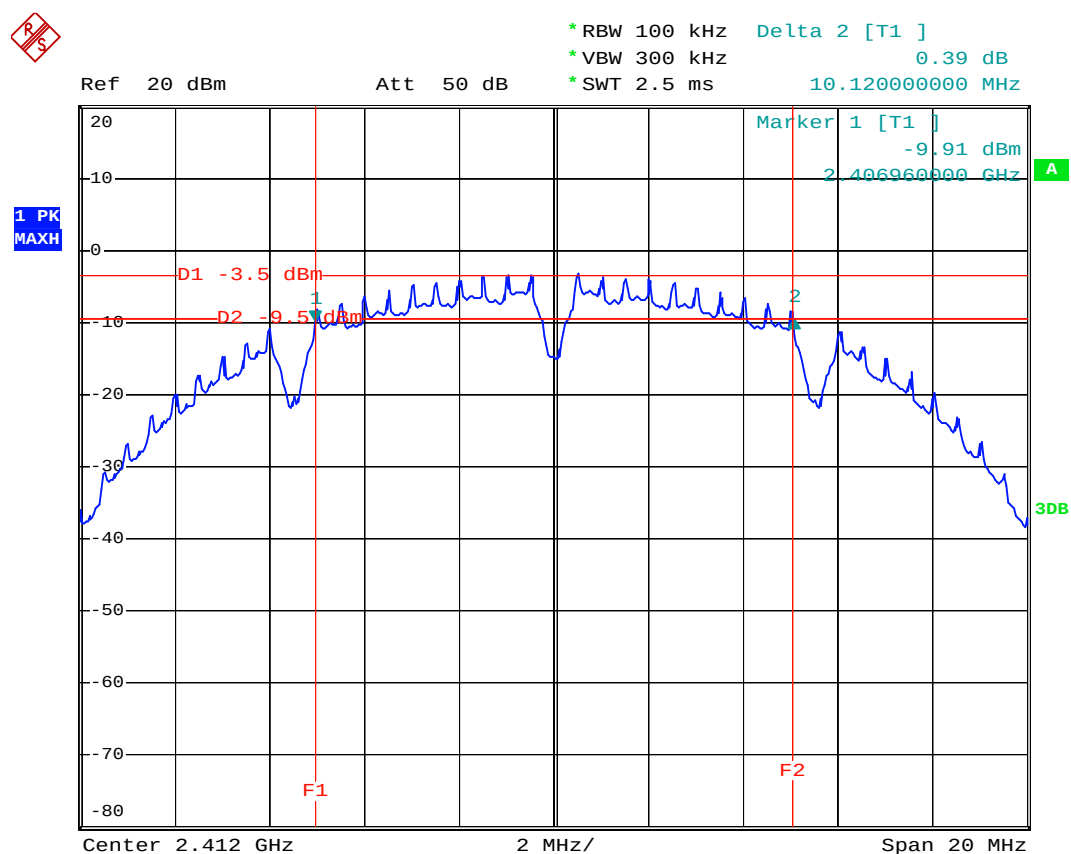
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.40	> 0.5MHz
Middle	2437	16.40	> 0.5MHz
High	2462	16.40	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 20 MHz)			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	17.60	> 0.5MHz
Middle	2437	17.60	> 0.5MHz
High	2462	17.60	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 40 MHz)			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2422	35.28	> 0.5MHz
Middle	2437	35.36	> 0.5MHz
High	2452	35.28	> 0.5MHz

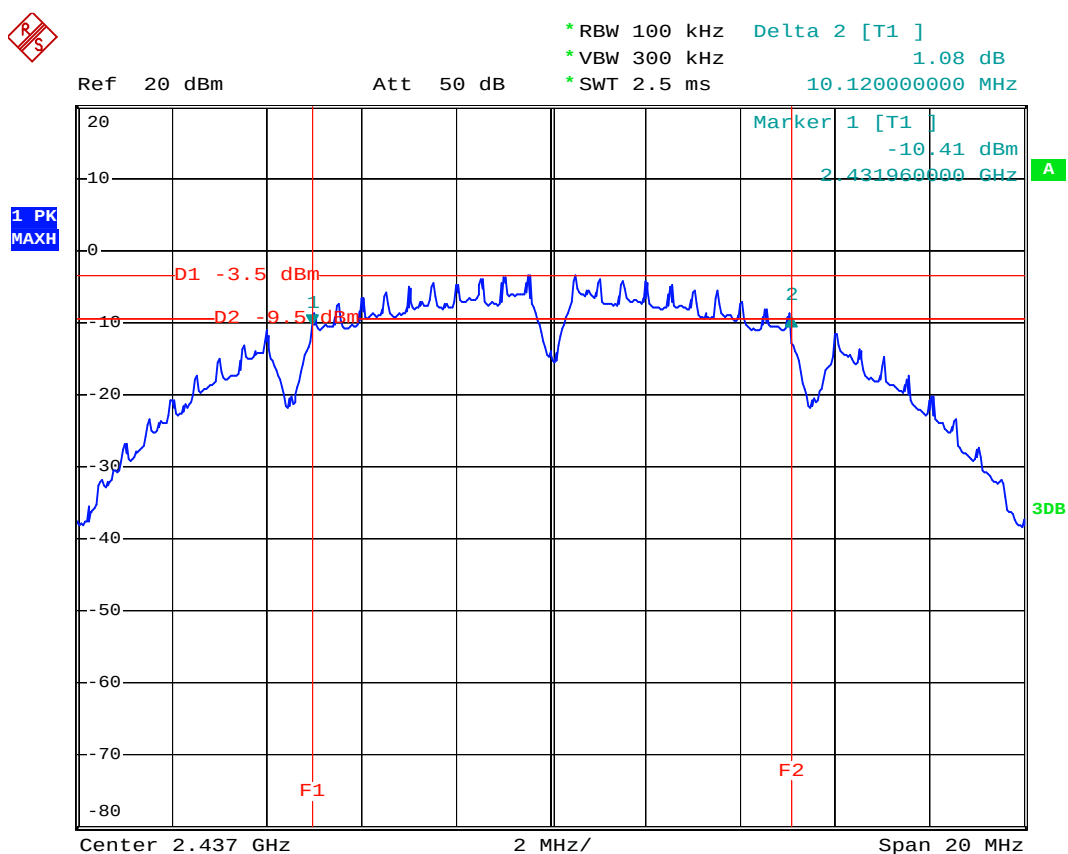
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



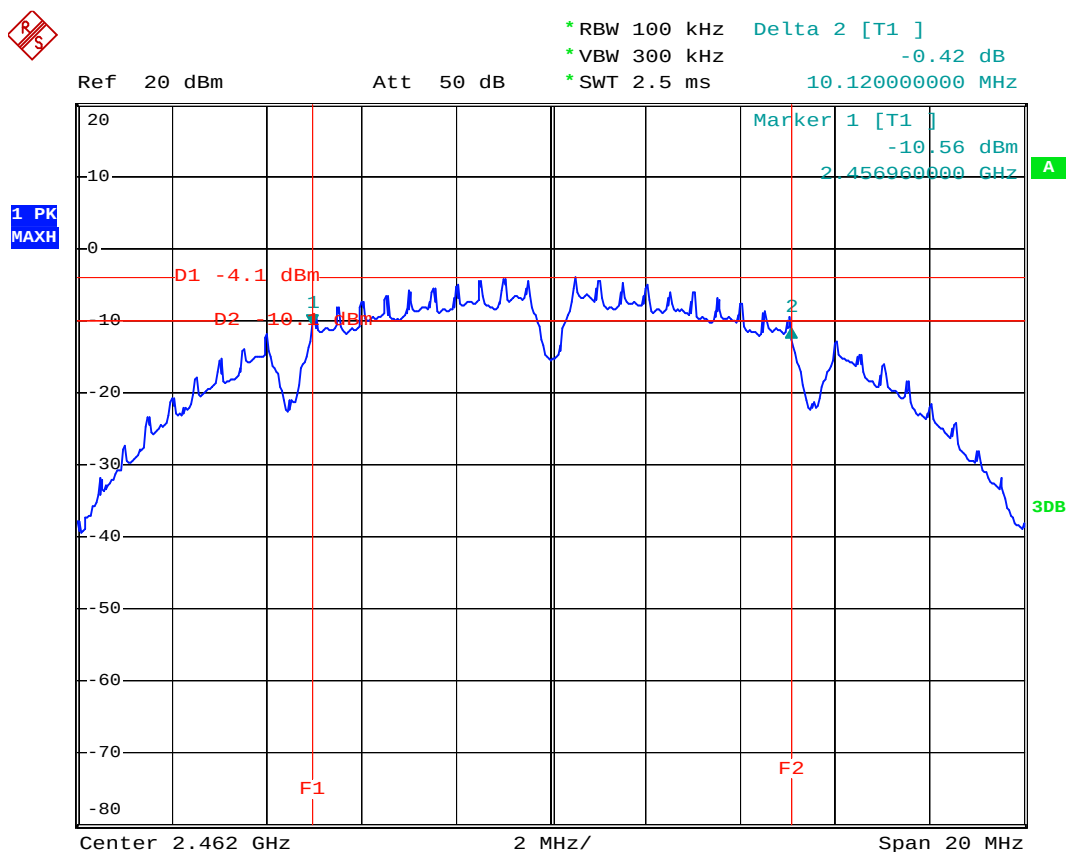
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802.11b Channel Middle 2437MHz



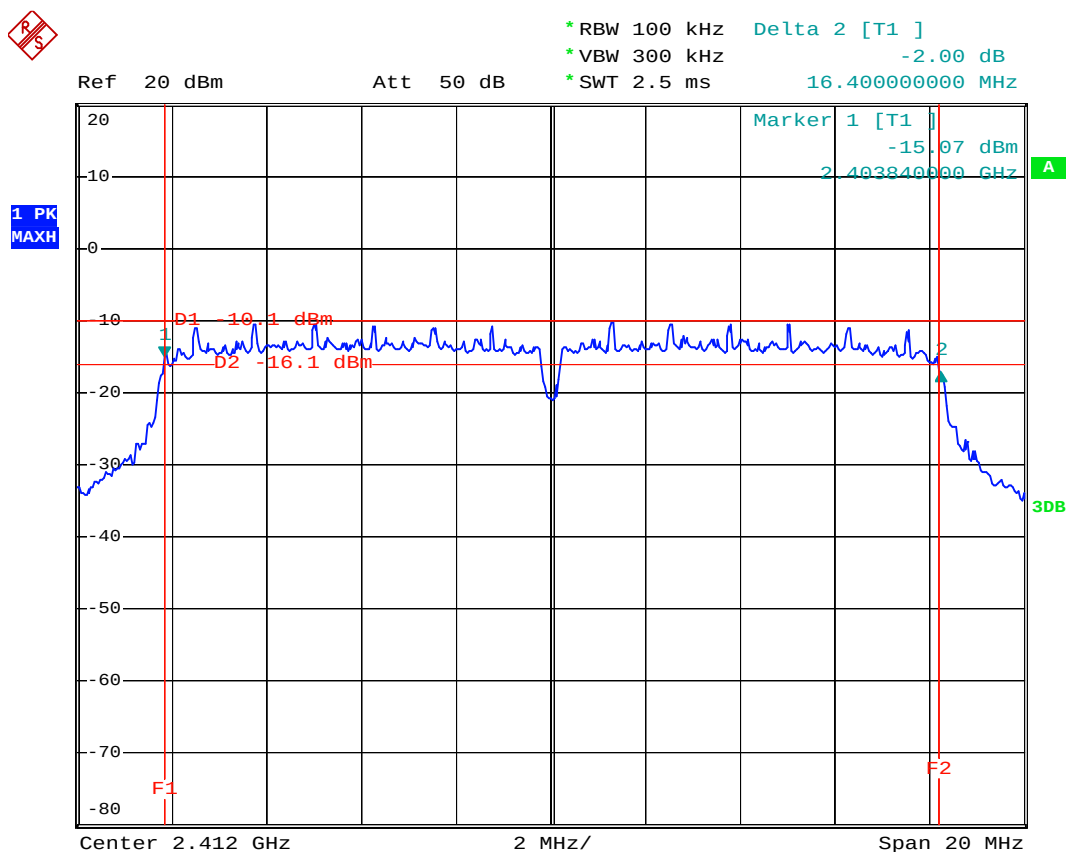
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802.11b Channel High 2462MHz



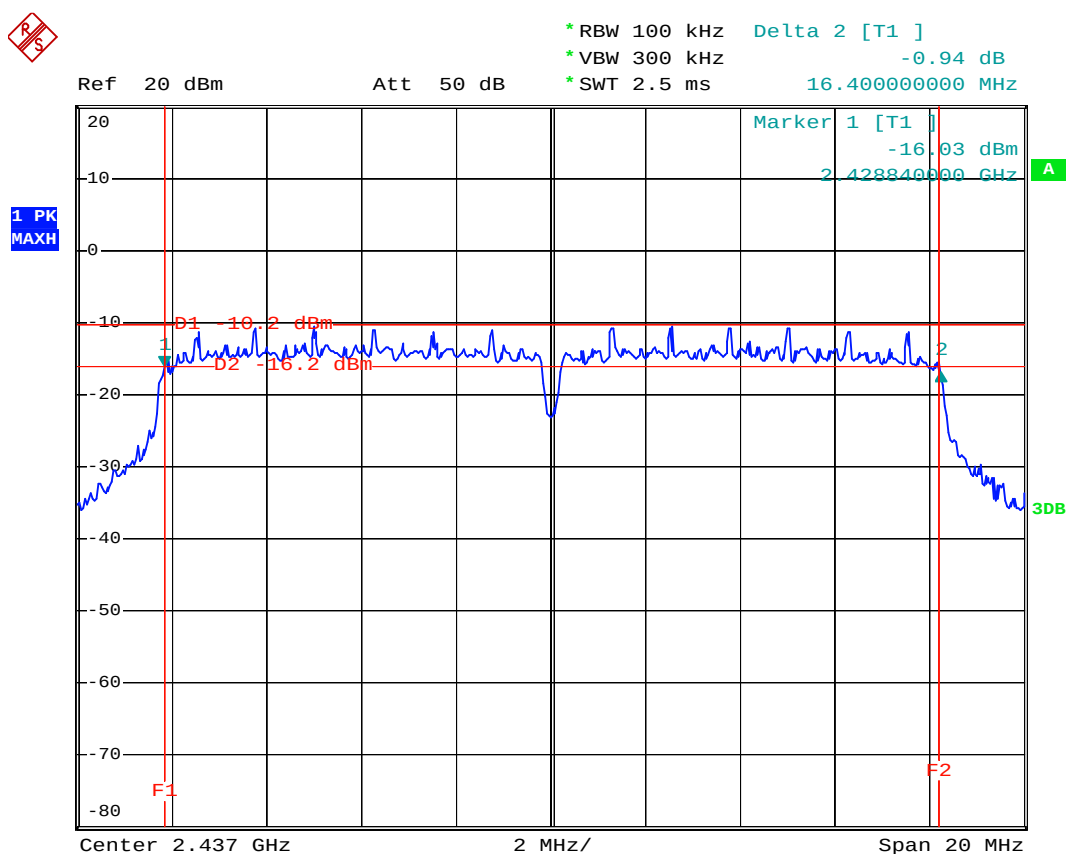
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802.11g Channel Low 2412MHz



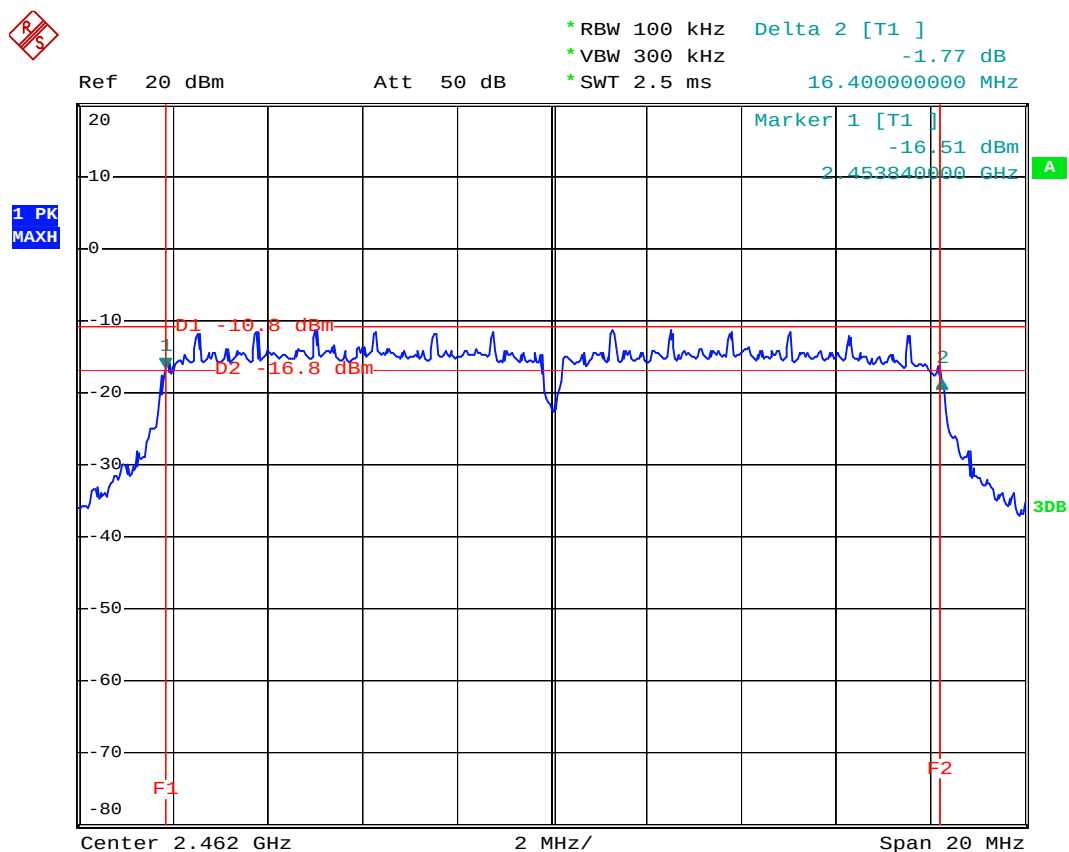
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802.11g Channel Middle 2437MHz



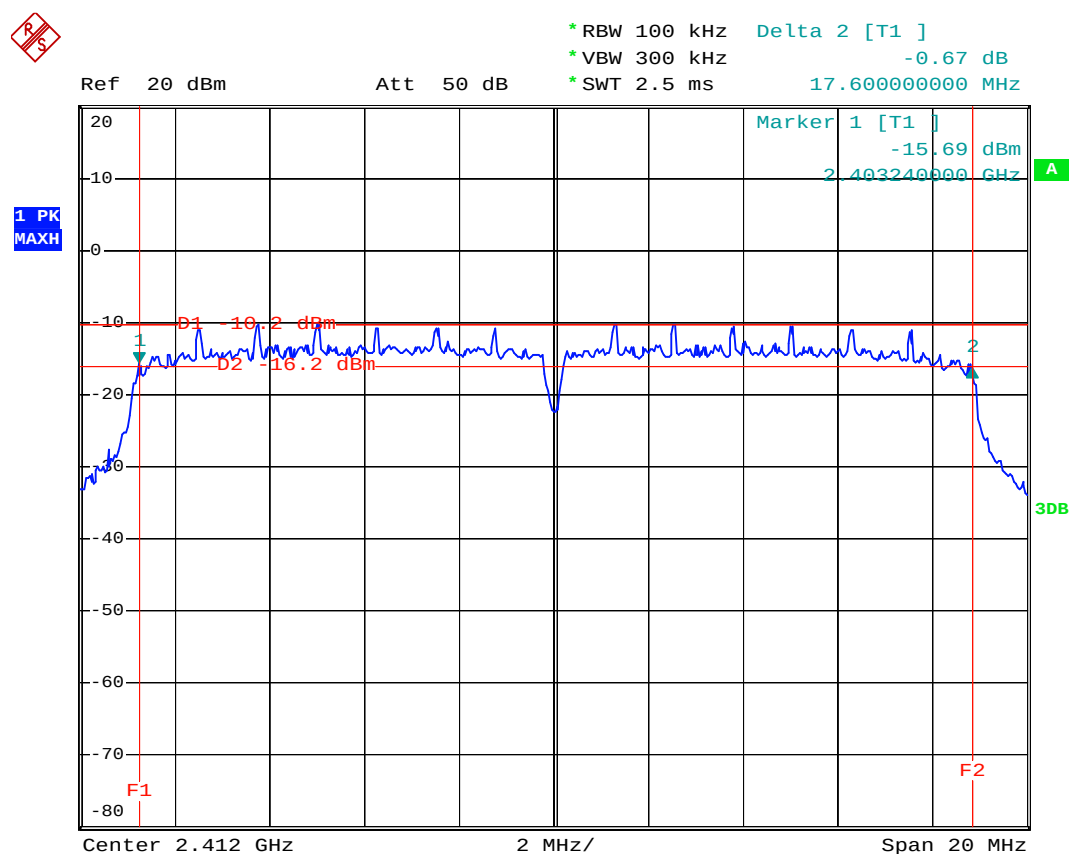
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802.11g Channel High 2462MHz



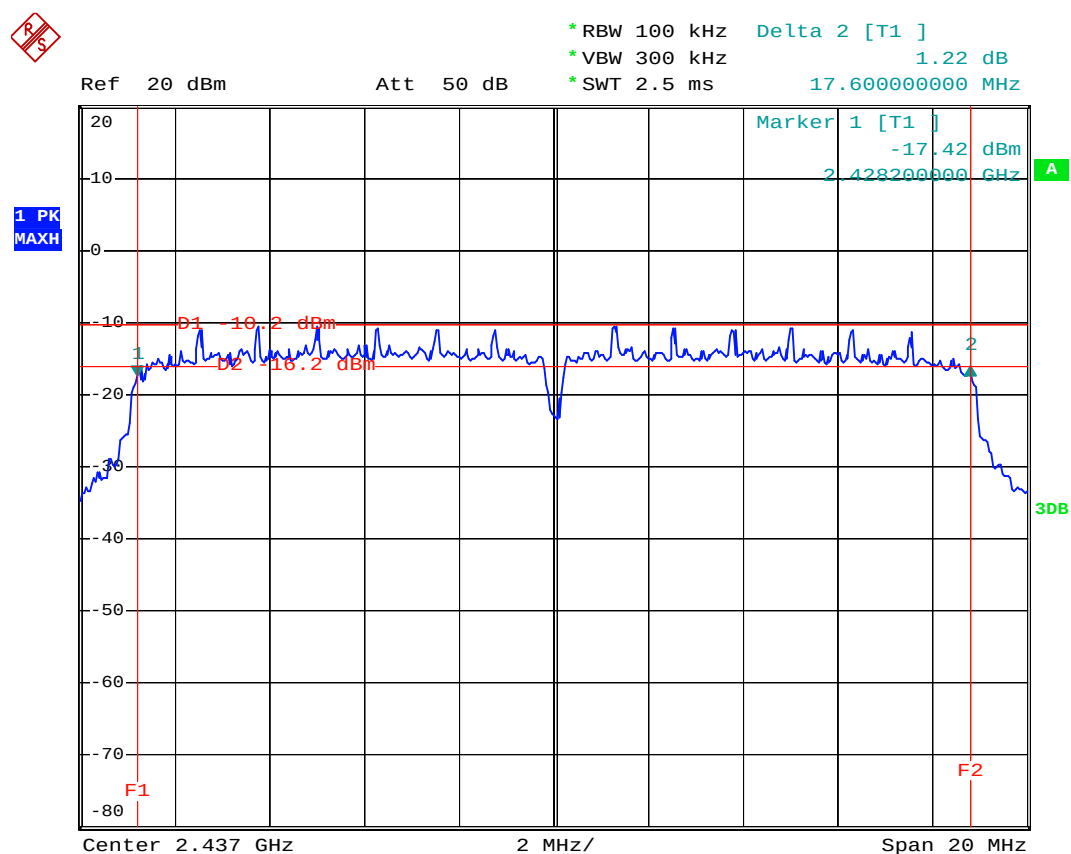
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802.11n Channel Low 2412MHz (20MHz)



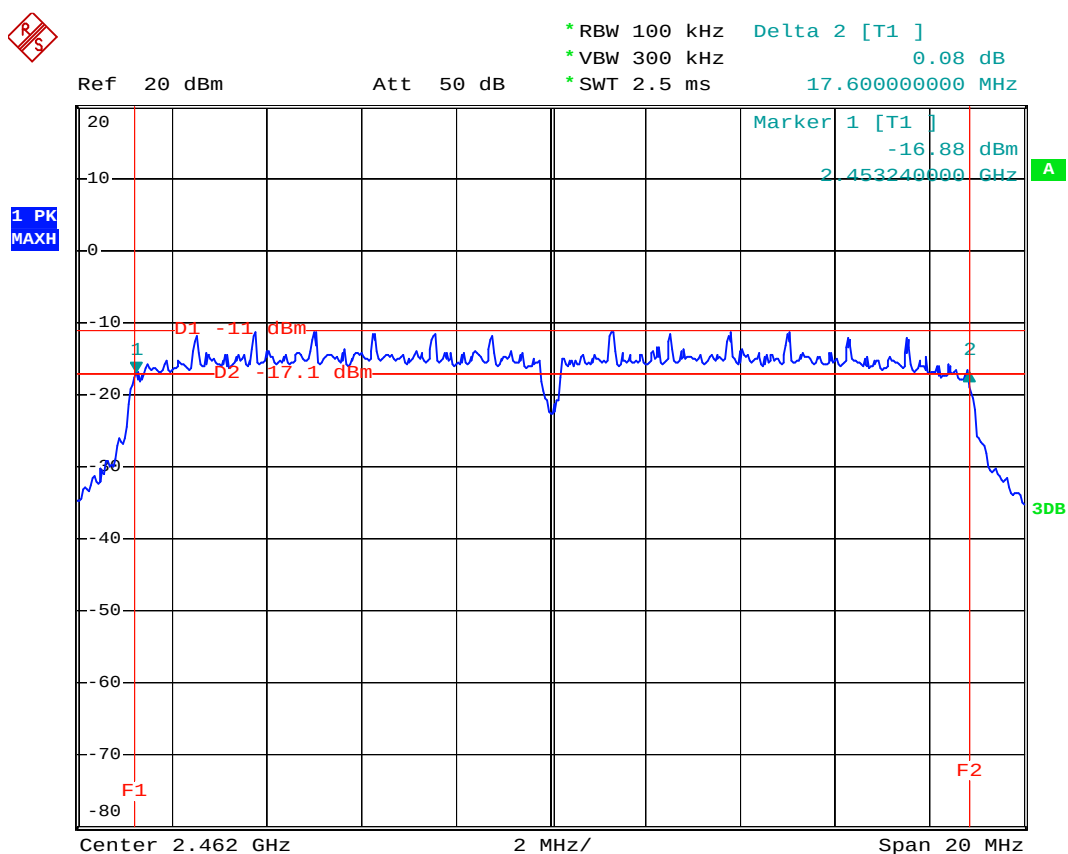
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802.11n Channel Middle 2437MHz(20MHz)



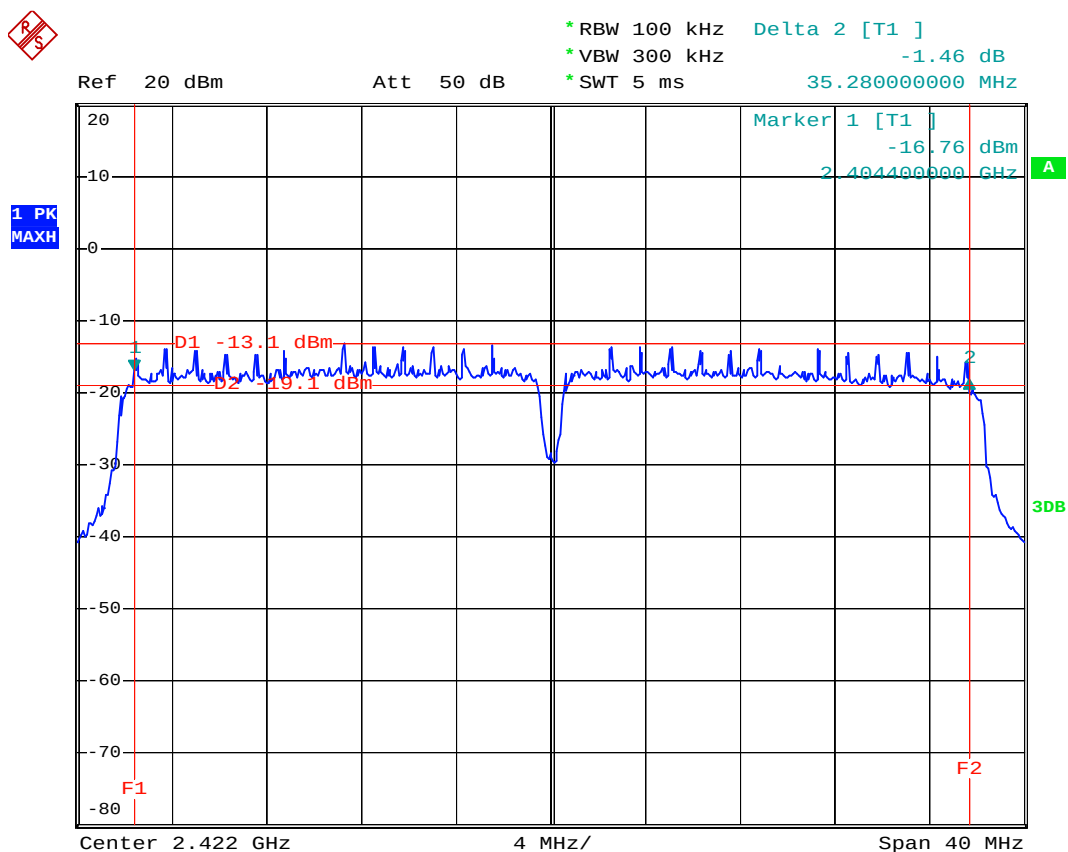
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802.11n Channel High 2462MHz(20MHz)



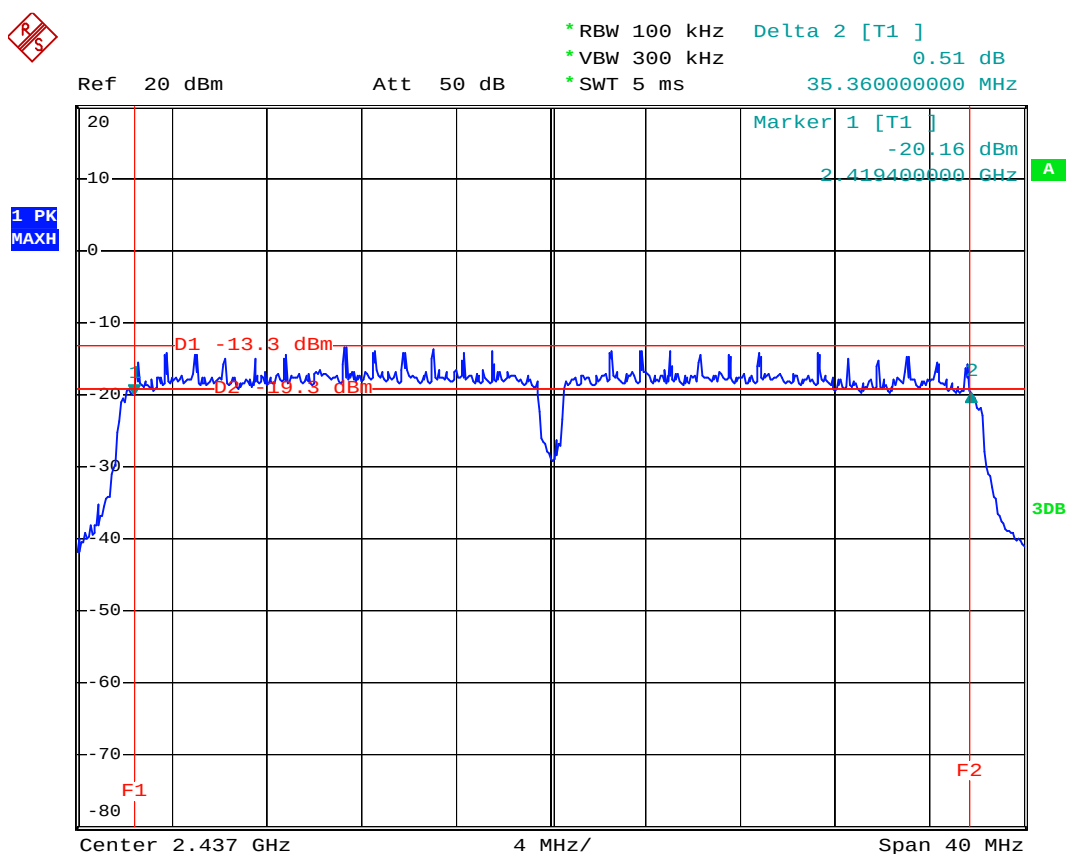
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802.11n Channel Low 2422MHz (40MHz)



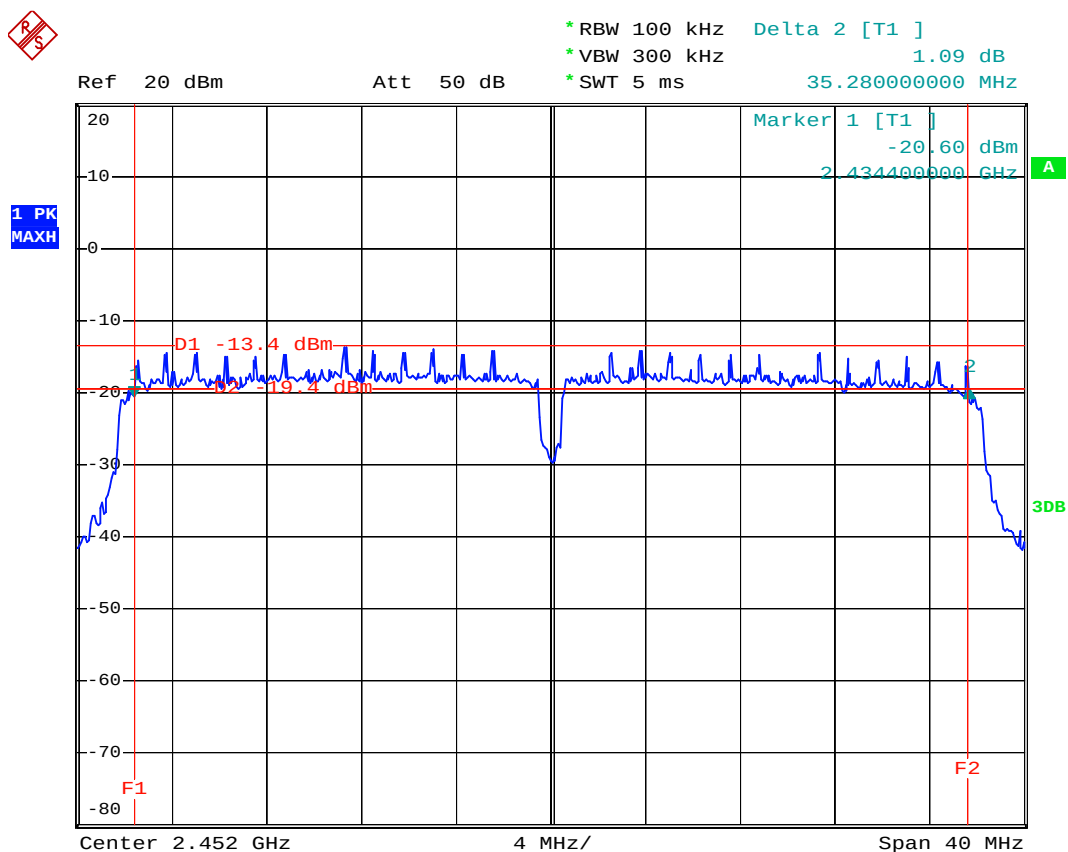
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802.11n Channel Middle 2437MHz(40MHz)



Date: 26.OCT.2012 11:14:30

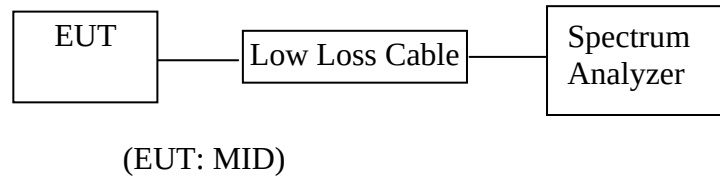
802.11n Channel High 2452MHz(40MHz)



Date: 26.OCT.2012 11:15:56

6. MAXIMUM PEAK OUTPUT POWER

6.1. Block Diagram of Test Setup



6.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

6.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1. MID (EUT)

Model Number	:	SP712
Serial Number	:	N/A
Manufacturer	:	NEXGEN GLOBAL LIMITED

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

6.5. Test Procedure

6.5.1. The EUT was tested according to DTS test procedure of October 04, 2012 KDB558074 D01 DTS Meas Guidance v02 for compliance to FCC 47CFR 15.247 requirements.

6.5.2. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.3. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.

6.5.4. Measurement the maximum peak output power.

6.6. Test Result

PASS.

Date of Test:	October 26, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	TX	Test Engineer:	Pei

The test was performed with 802.11b

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	8.80	7.59	30 dBm / 1 W
Middle	2437	8.44	6.98	30 dBm / 1 W
High	2462	7.72	5.92	30 dBm / 1 W

The test was performed with 802.11g

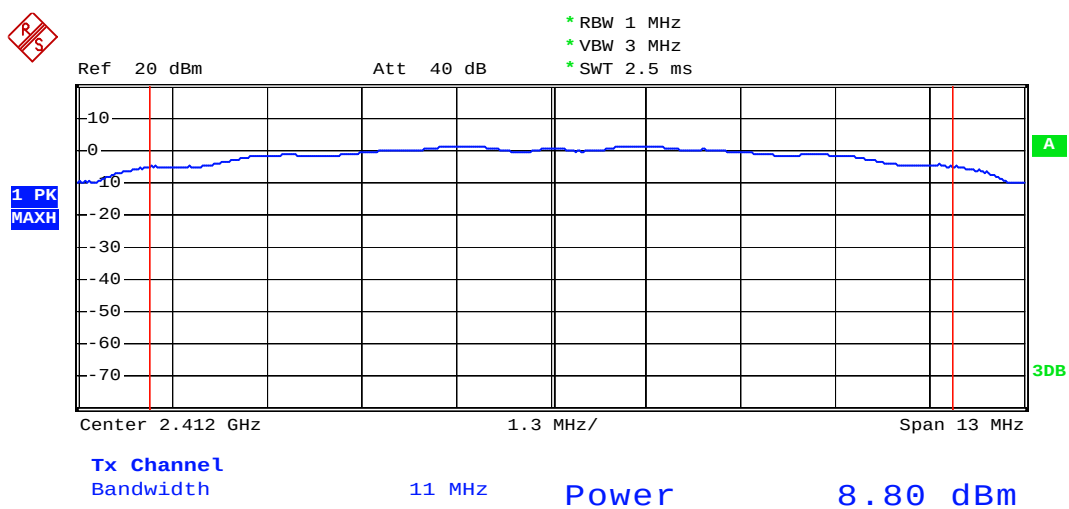
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	9.54	8.99	30 dBm / 1 W
Middle	2437	9.16	8.24	30 dBm / 1 W
High	2462	8.53	7.13	30 dBm / 1 W

The test was performed with 802.11n (20MHz)				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	9.50	8.91	30 dBm / 1 W
Middle	2437	9.18	8.28	30 dBm / 1 W
High	2462	8.81	7.60	30 dBm / 1 W

The test was performed with 802.11n (40MHz)				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2422	9.07	8.07	30 dBm / 1 W
Middle	2437	8.76	7.52	30 dBm / 1 W
High	2452	8.37	6.87	30 dBm / 1 W

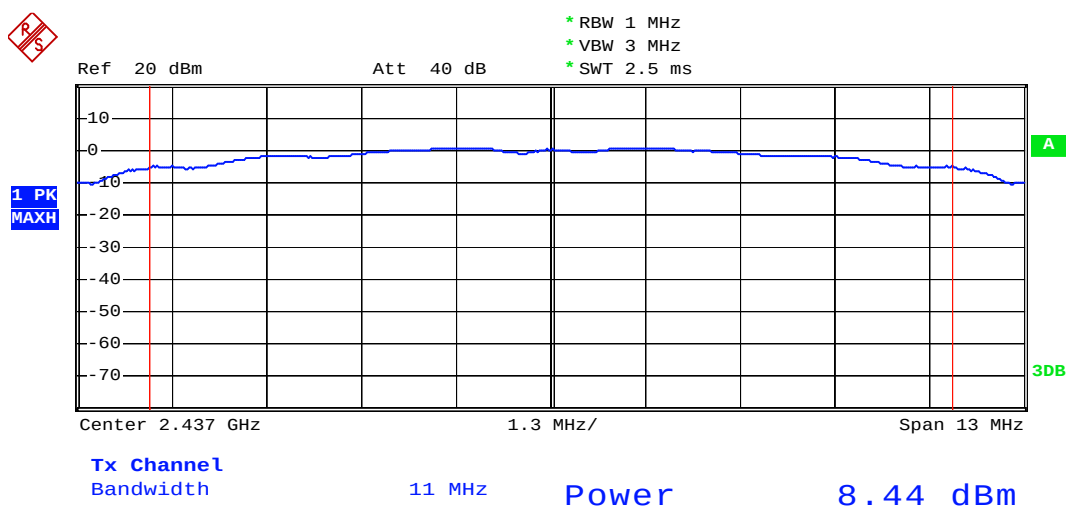
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



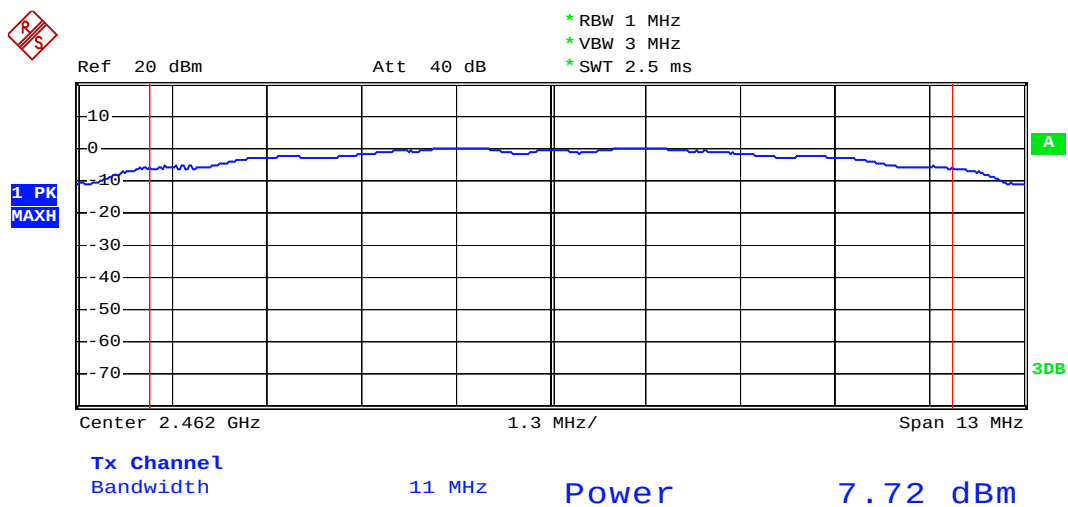
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802.11b Channel Middle 2437MHz



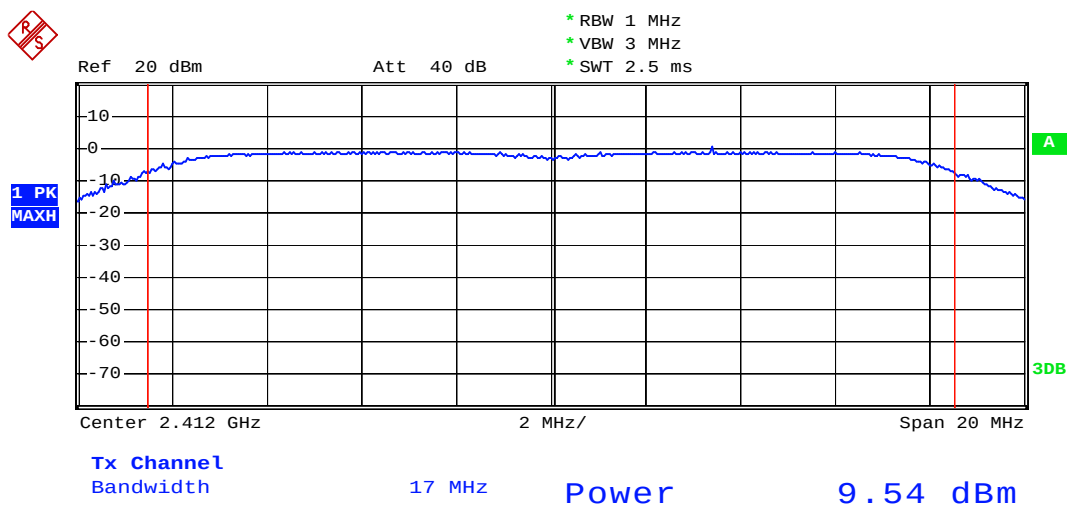
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802.11b Channel High 2462MHz



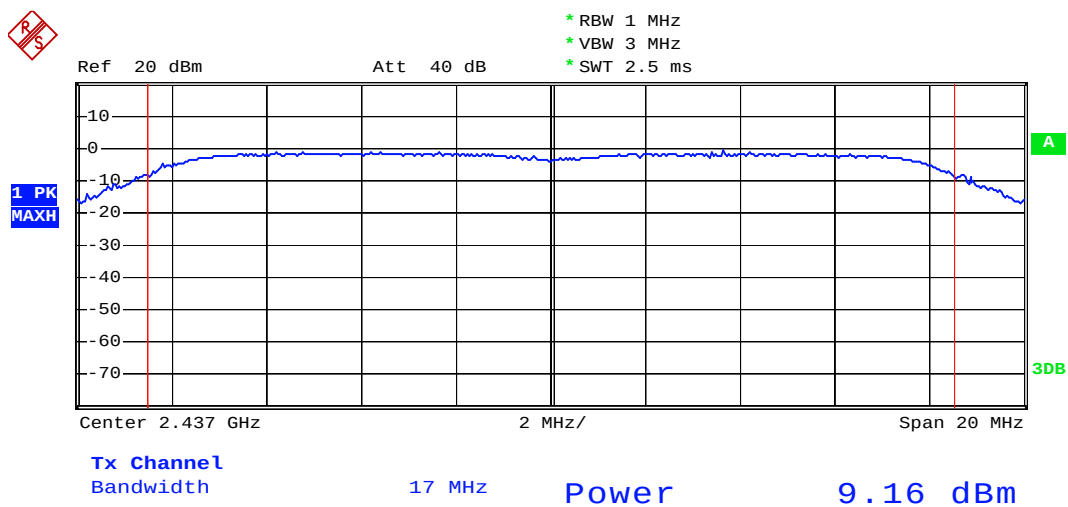
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802.11g Channel Low 2412MHz



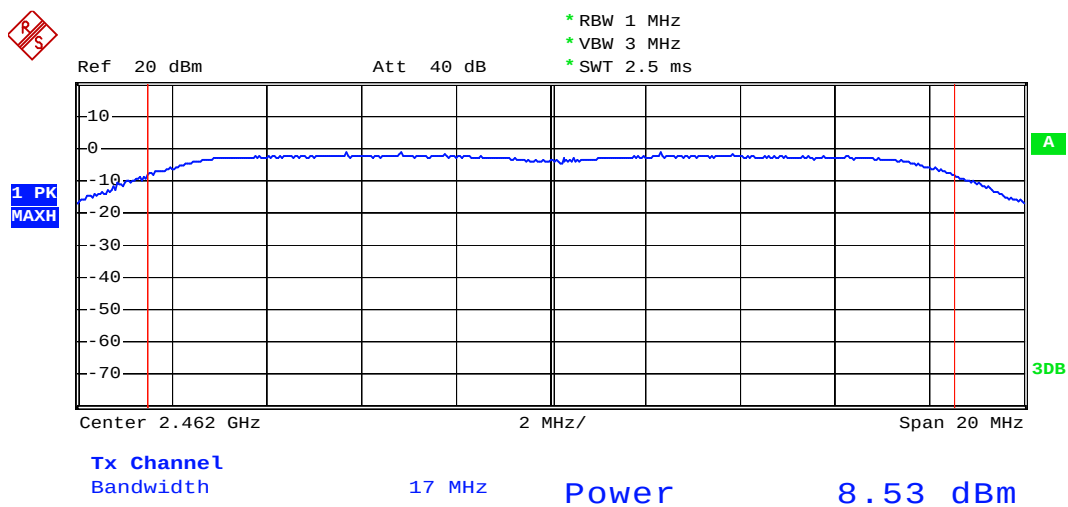
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802.11g Channel Middle 2437MHz



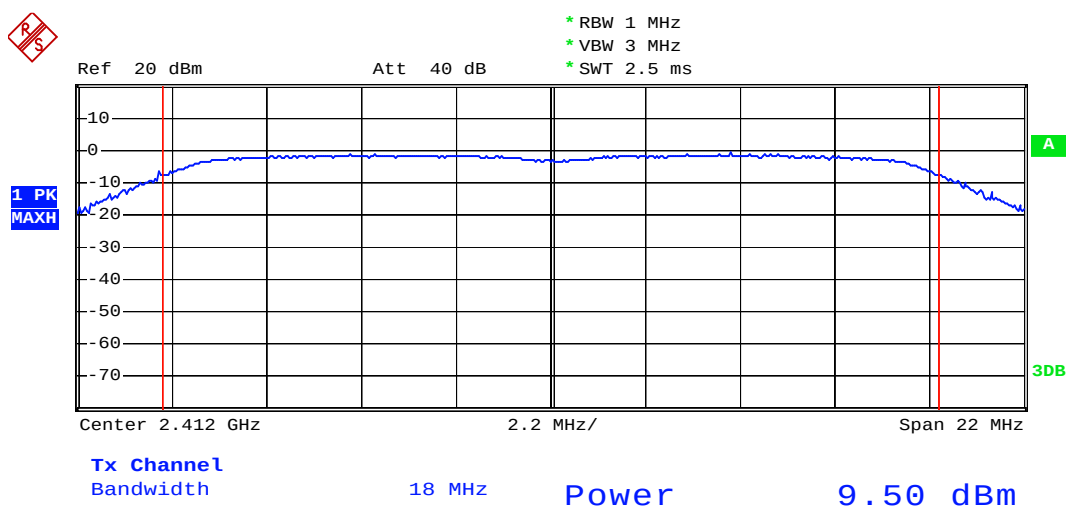
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802.11g Channel High 2462MHz



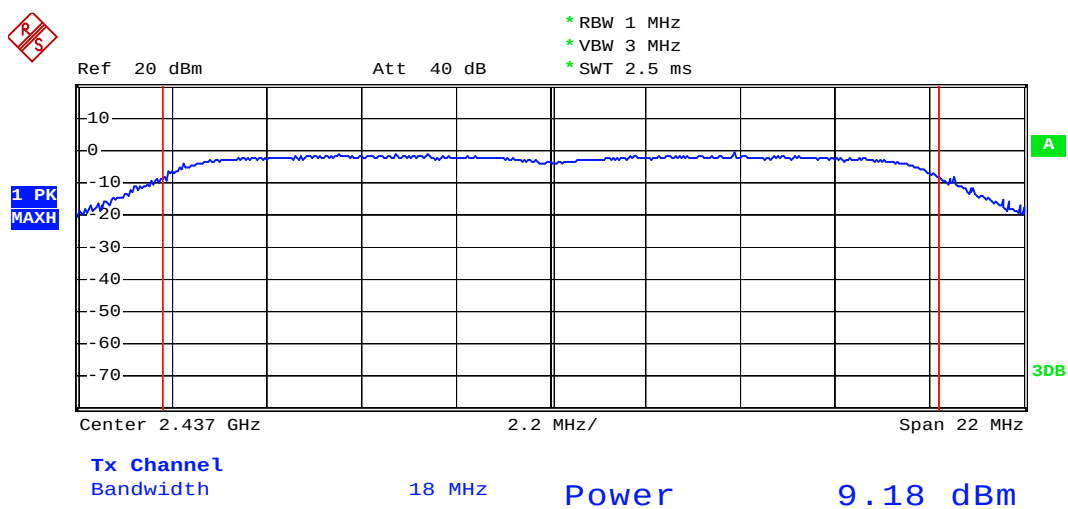
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802.11n Channel Low 2412MHz (20MHz)



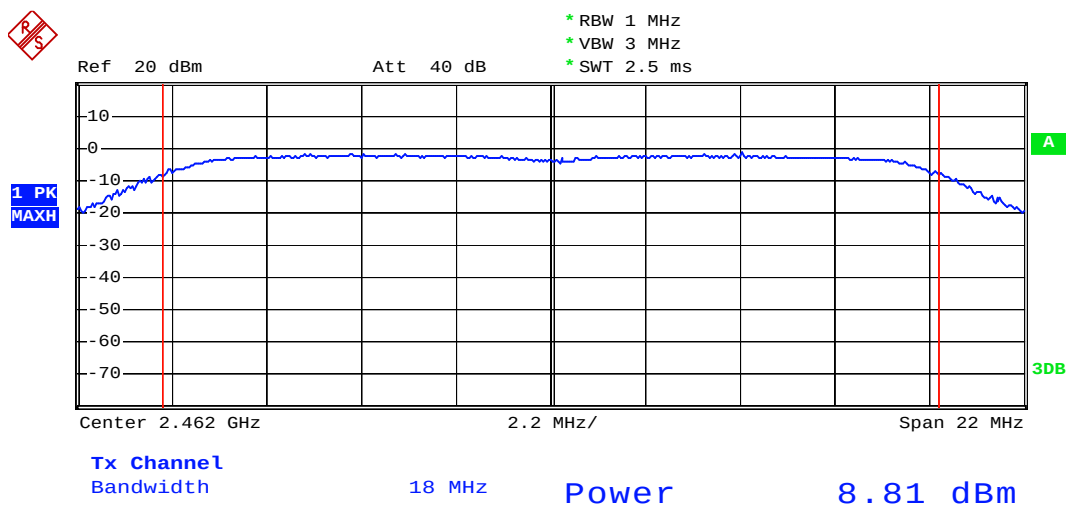
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802.11n Channel Middle 2437MHz (20MHz)



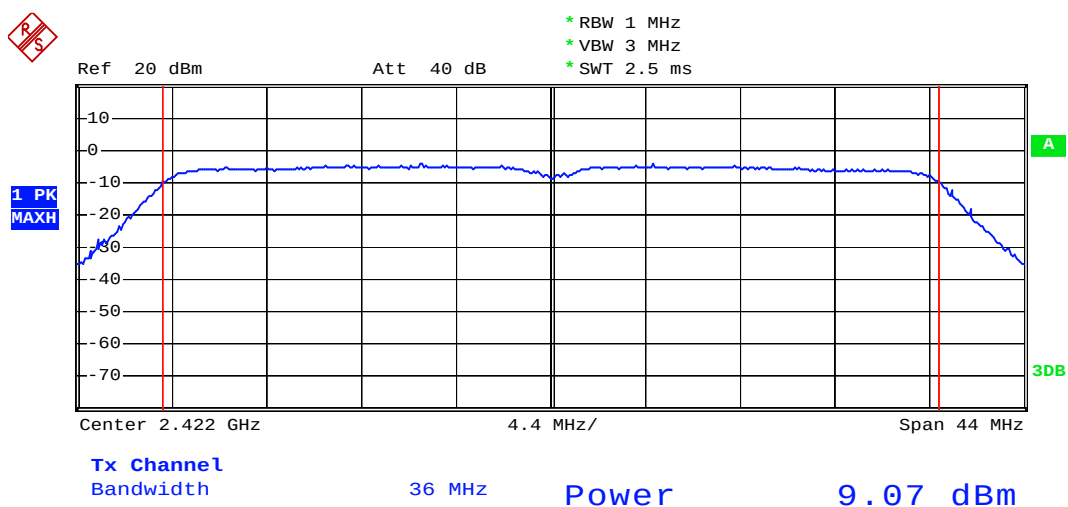
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802.11n Channel High 2462MHz (20MHz)



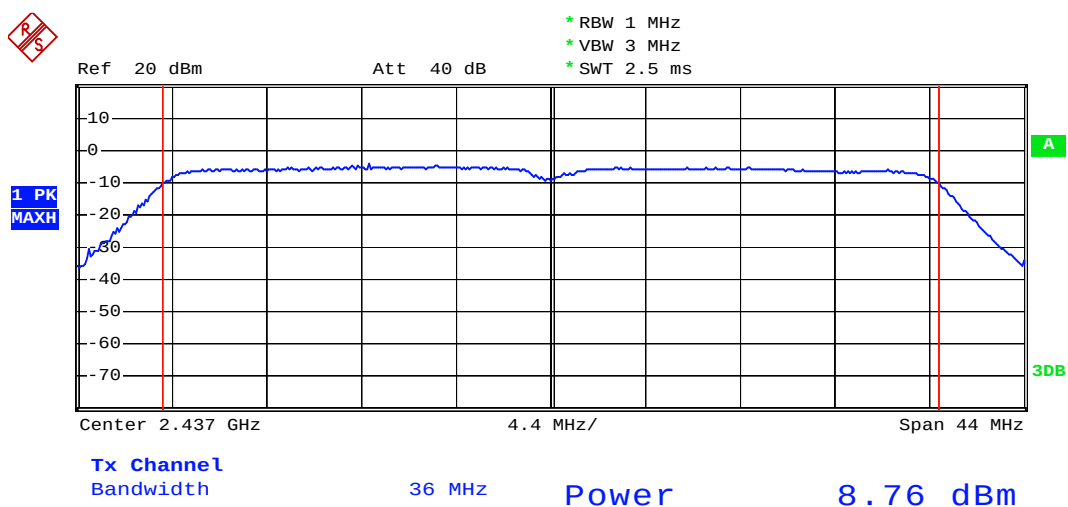
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802.11n Channel Low 2422MHz (40MHz)



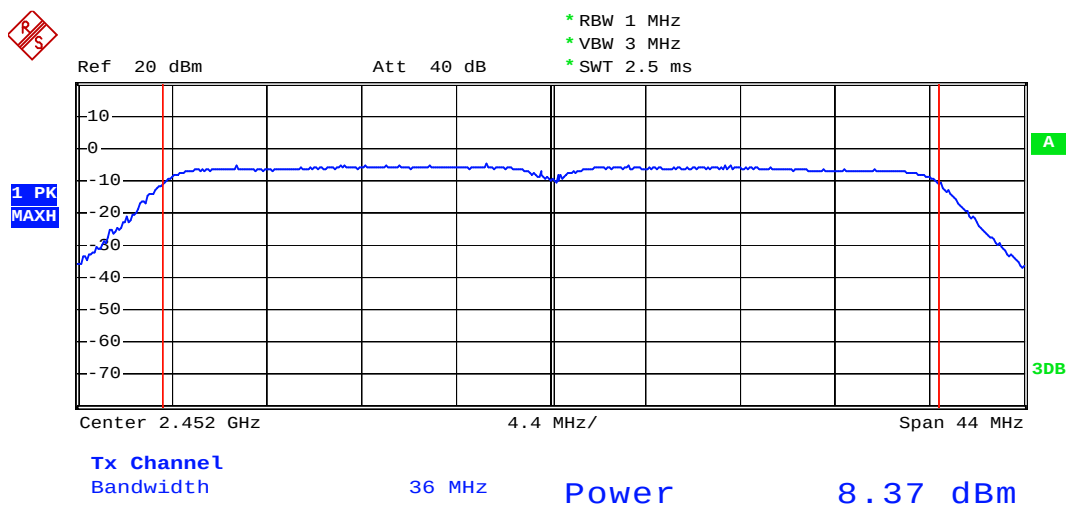
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802.11n Channel Middle 2437MHz (40MHz)



Date: 26.OCT.2012 11:17:29

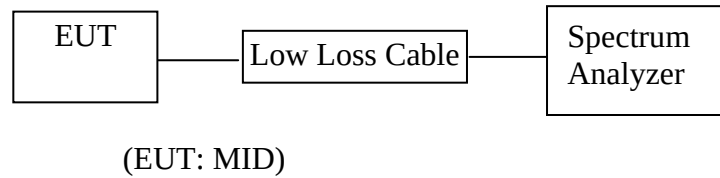
802.11n Channel High 2452MHz (40MHz)



Date: 26.OCT.2012 11:16:53

7. POWER SPECTRAL DENSITY MEASUREMENT

7.1. Block Diagram of Test Setup



7.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.3.1. MID (EUT)

Model Number	:	SP712
Serial Number	:	N/A
Manufacturer	:	NEXGEN GLOBAL LIMITED

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

7.5. Test Procedure

7.5.1. The EUT was tested according to DTS test procedure of October 04, 2012 KDB558074 D01 DTS Meas Guidance v02 for compliance to FCC 47CFR 15.247 requirements.

7.5.2. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.3. Measurement Procedure PKPSD:

This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW $\geq$ 3 kHz.
4. Set the VBW $\geq$ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.5.4. Measurement the maximum power spectral density.

7.6.Test Result

PASS.

Date of Test:	October 26, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	TX	Test Engineer:	Pei

The test was performed with 802.11b

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-17.98	8 dBm
Middle	2437	-18.97	8 dBm
High	2462	-18.64	8 dBm

The test was performed with 802.11g

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-25.22	8 dBm
Middle	2437	-24.30	8 dBm
High	2462	-24.63	8 dBm

The test was performed with 802.11n (20MHz)

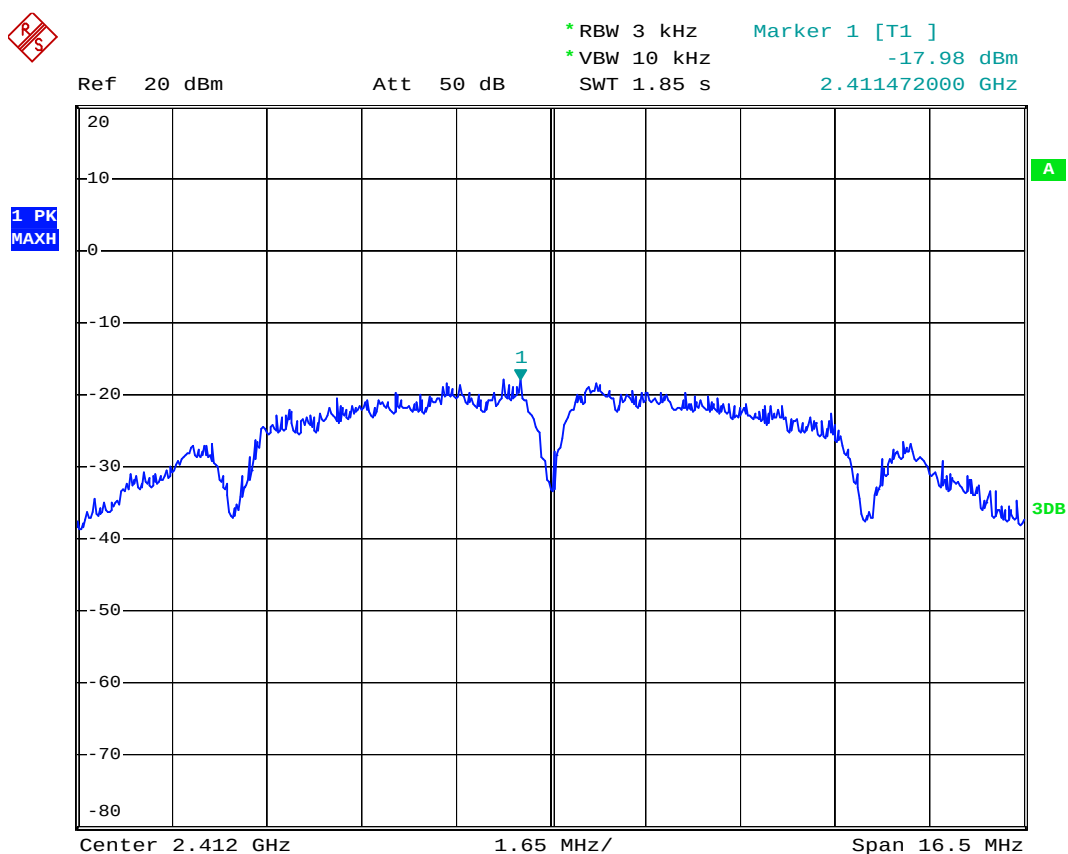
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-23.84	8 dBm
Middle	2437	-24.79	8 dBm
High	2462	-25.42	8 dBm

The test was performed with 802.11n (40MHz)

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2422	-28.36	8 dBm
Middle	2437	-27.20	8 dBm
High	2452	-28.69	8 dBm

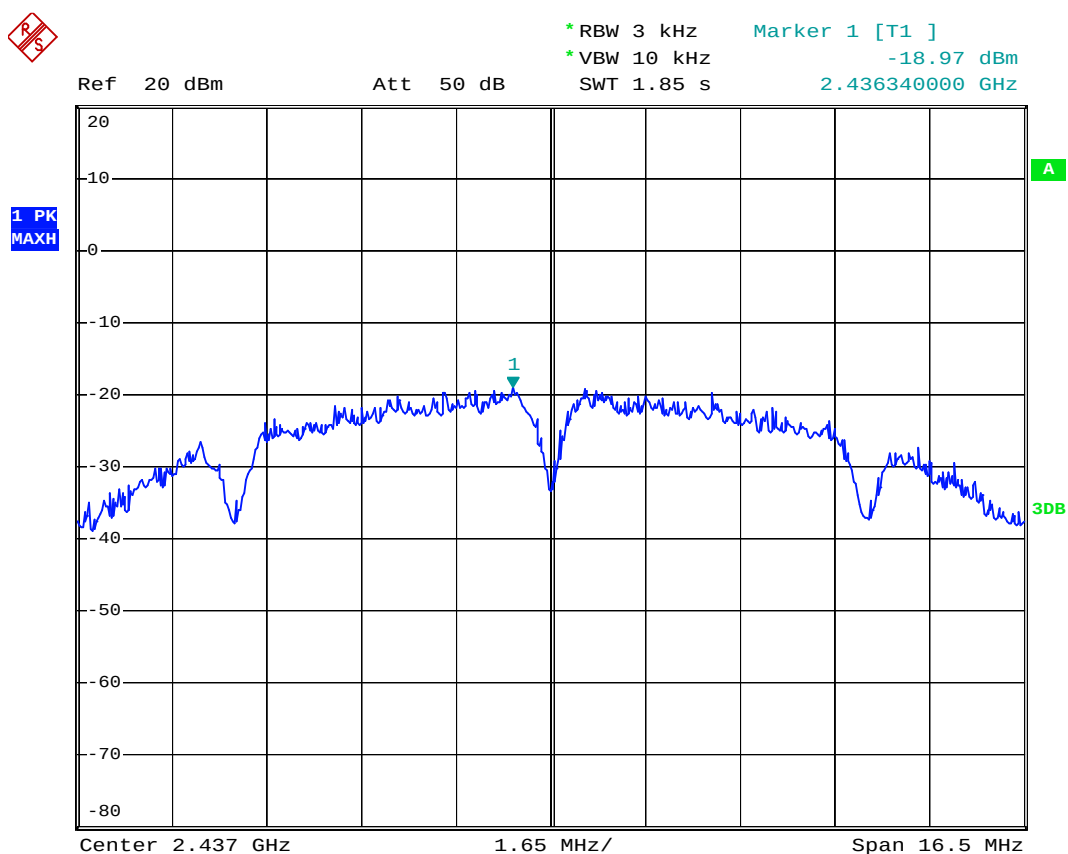
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



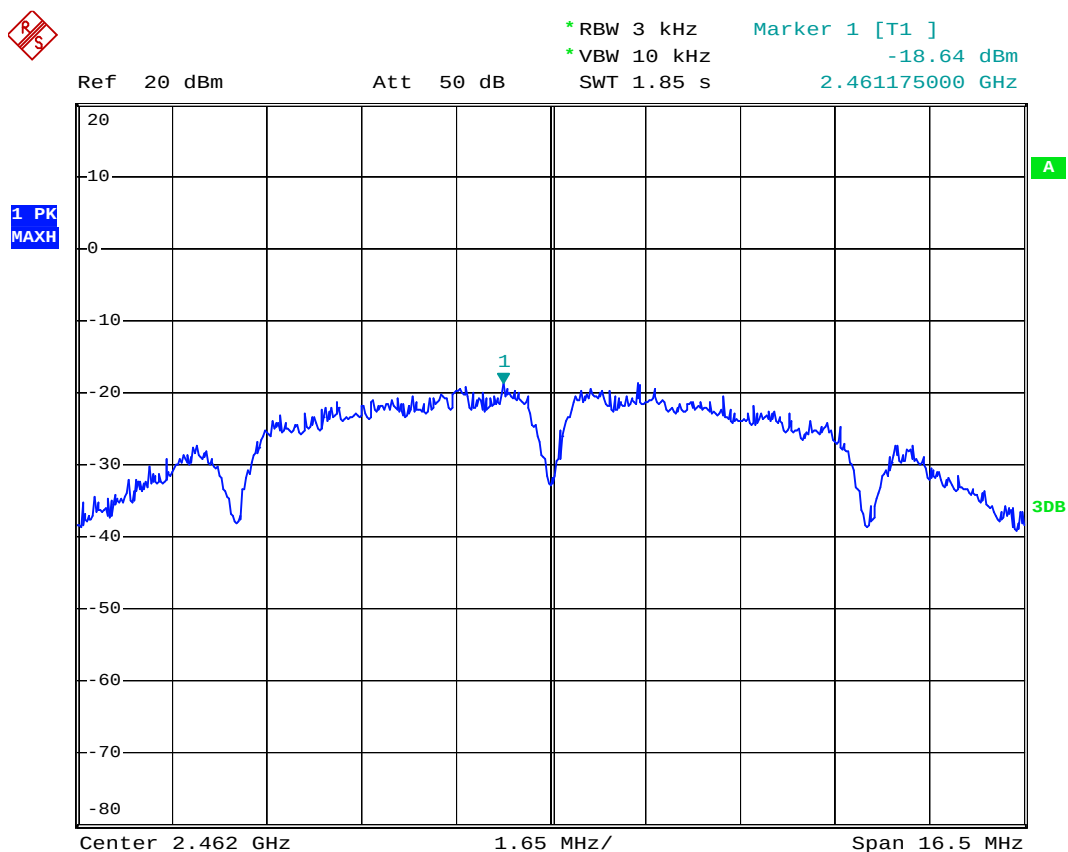
Date: 26.OCT.2012 10:02:10

802.11b Channel Middle 2437MHz



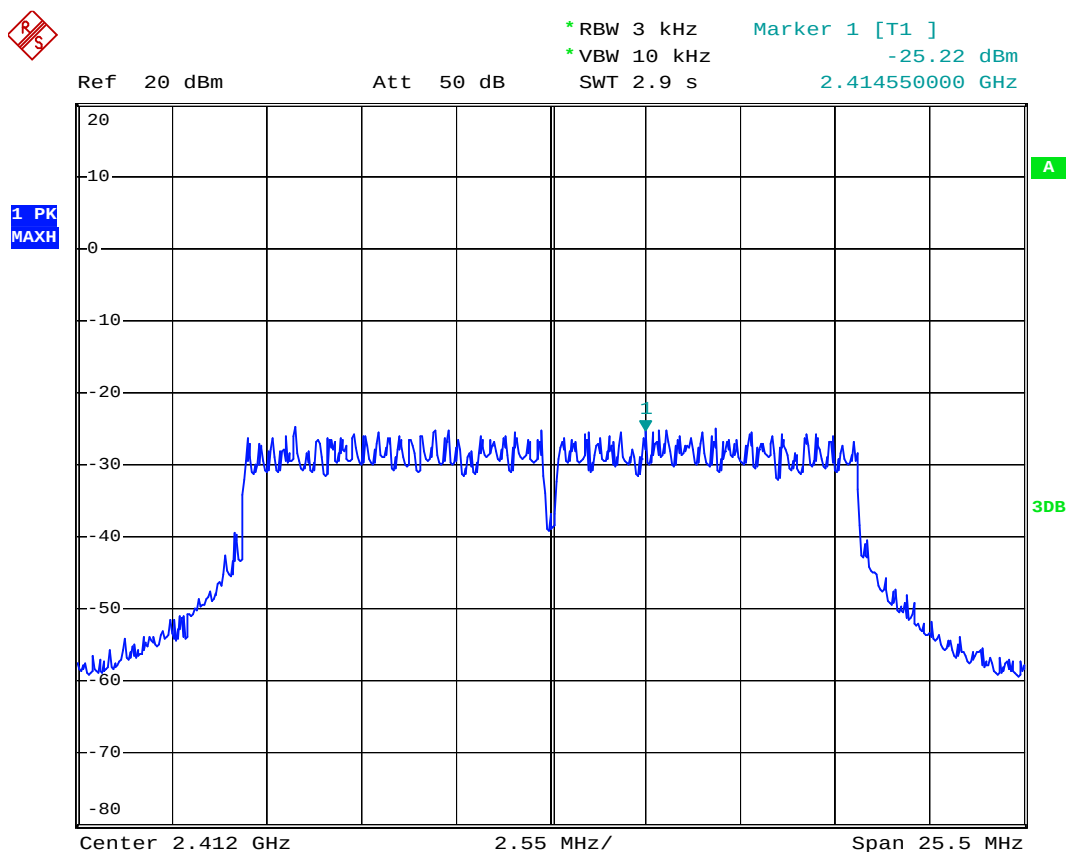
Date: 26.OCT.2012 10:02:52

802.11b Channel High 2462MHz



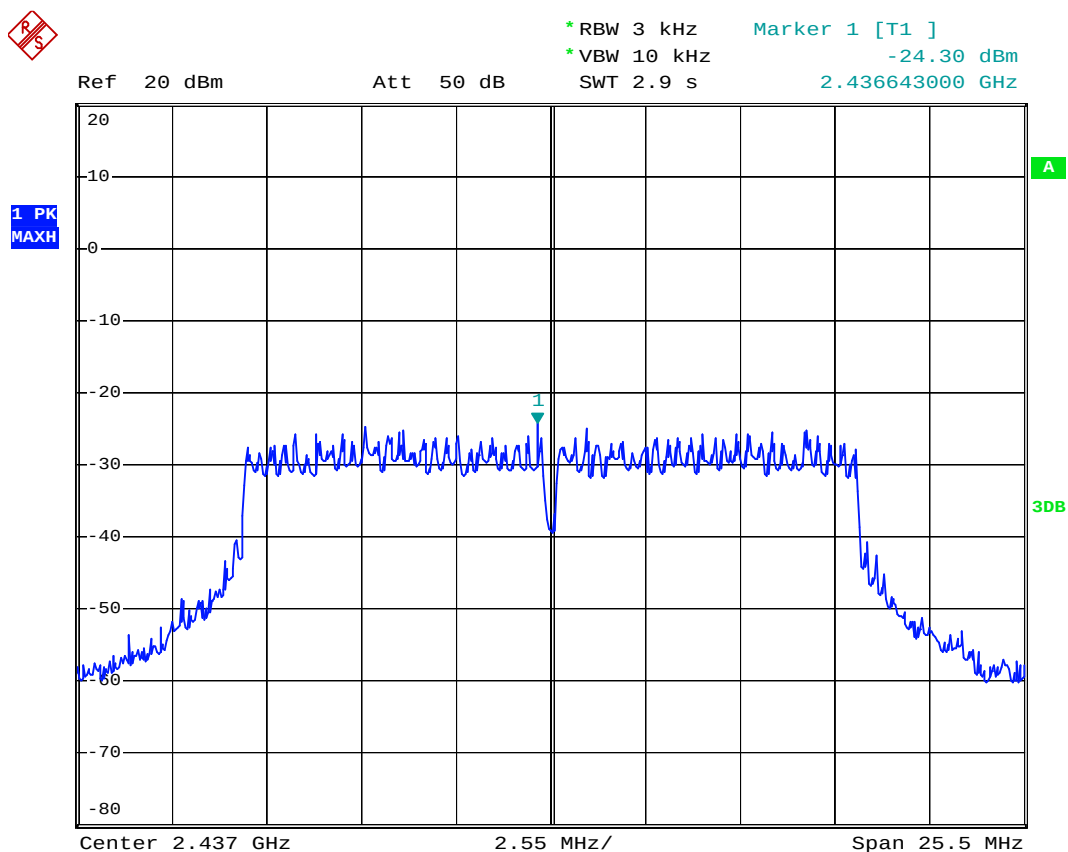
Date: 26.OCT.2012 10:03:34

802.11g Channel Low 2412MHz



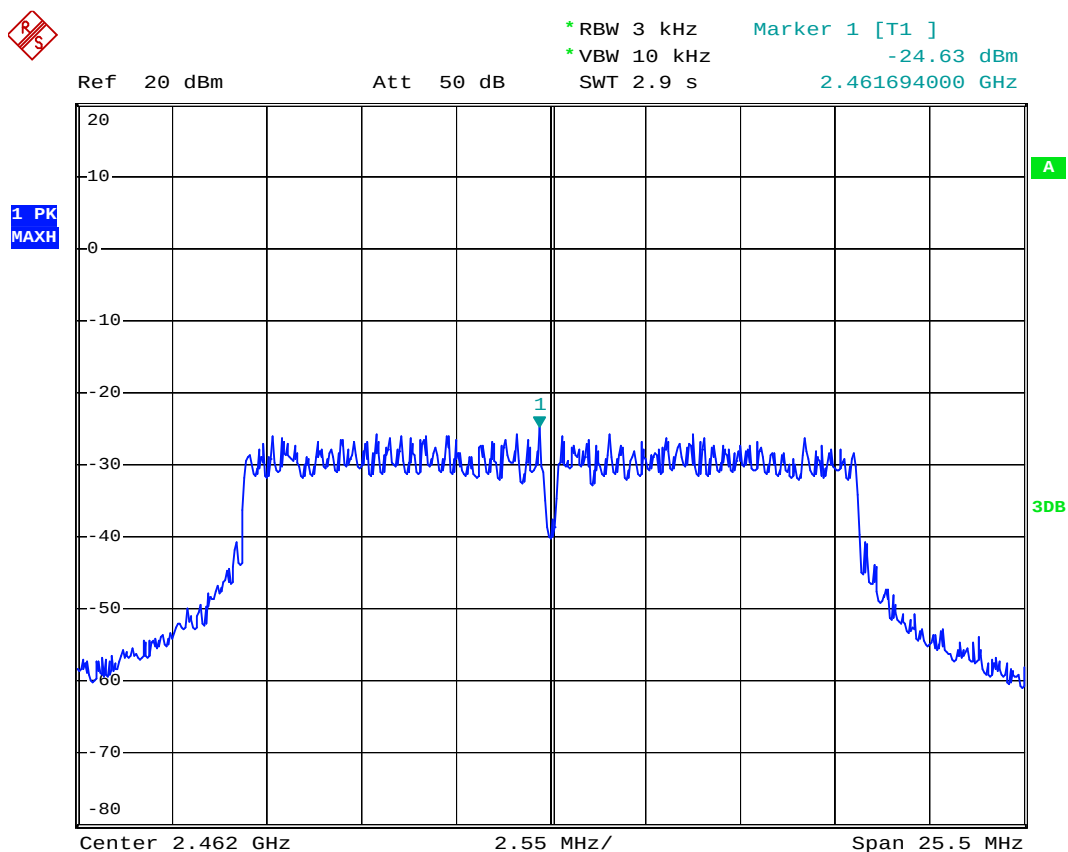
Date: 26.OCT.2012 10:18:14

802.11g Channel Middle 2437MHz



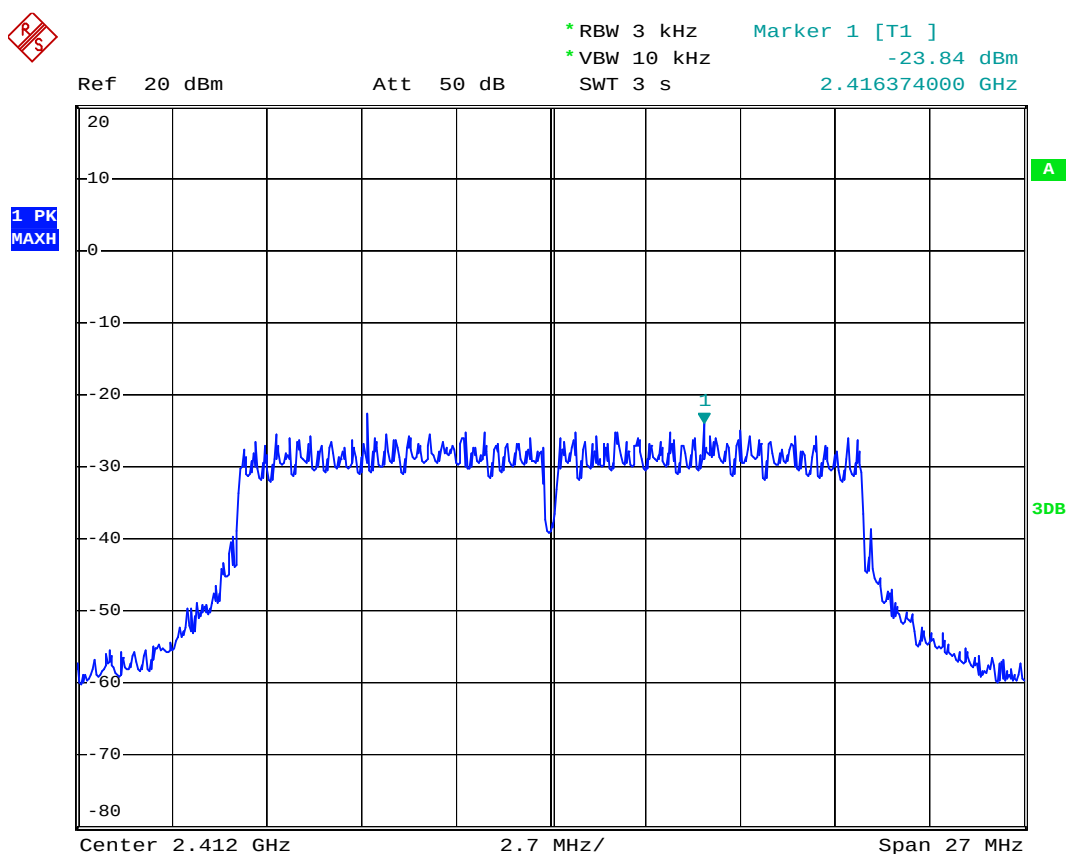
Date: 26.OCT.2012 10:18:53

802.11g Channel High 2462MHz



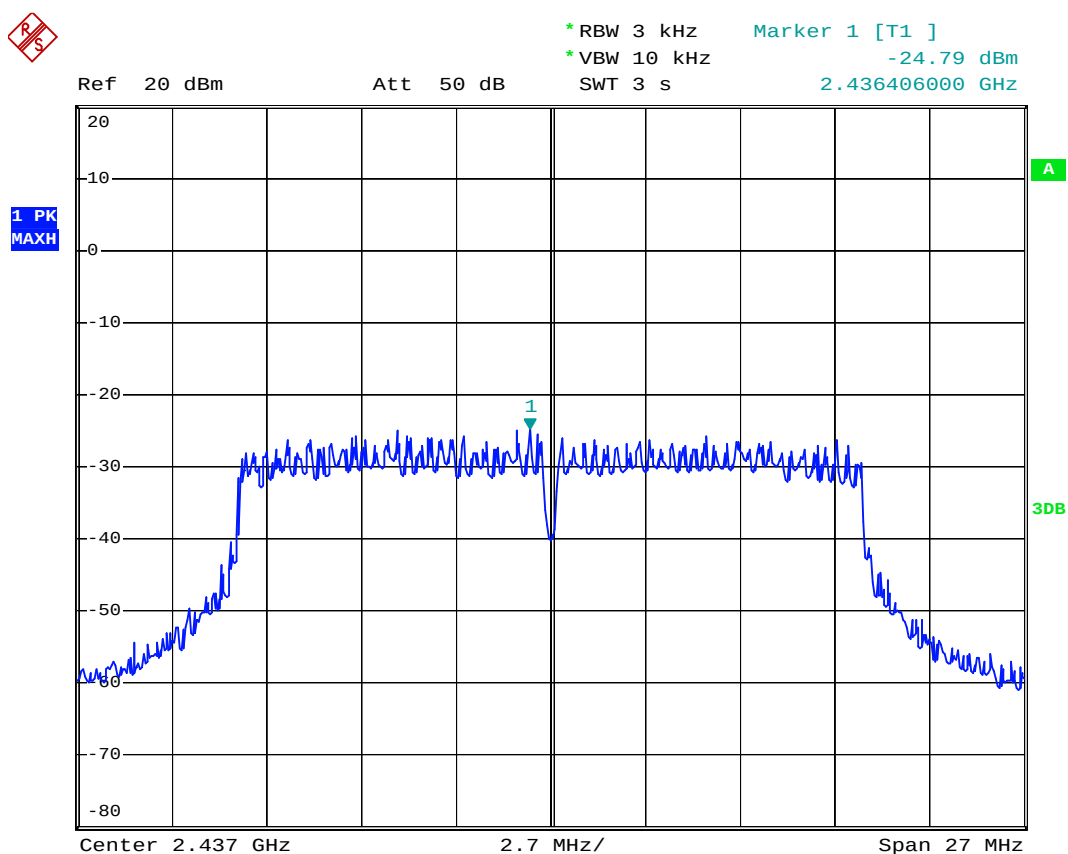
Date: 26.OCT.2012 10:19:31

802.11n Channel Low 2412MHz (20MHz)



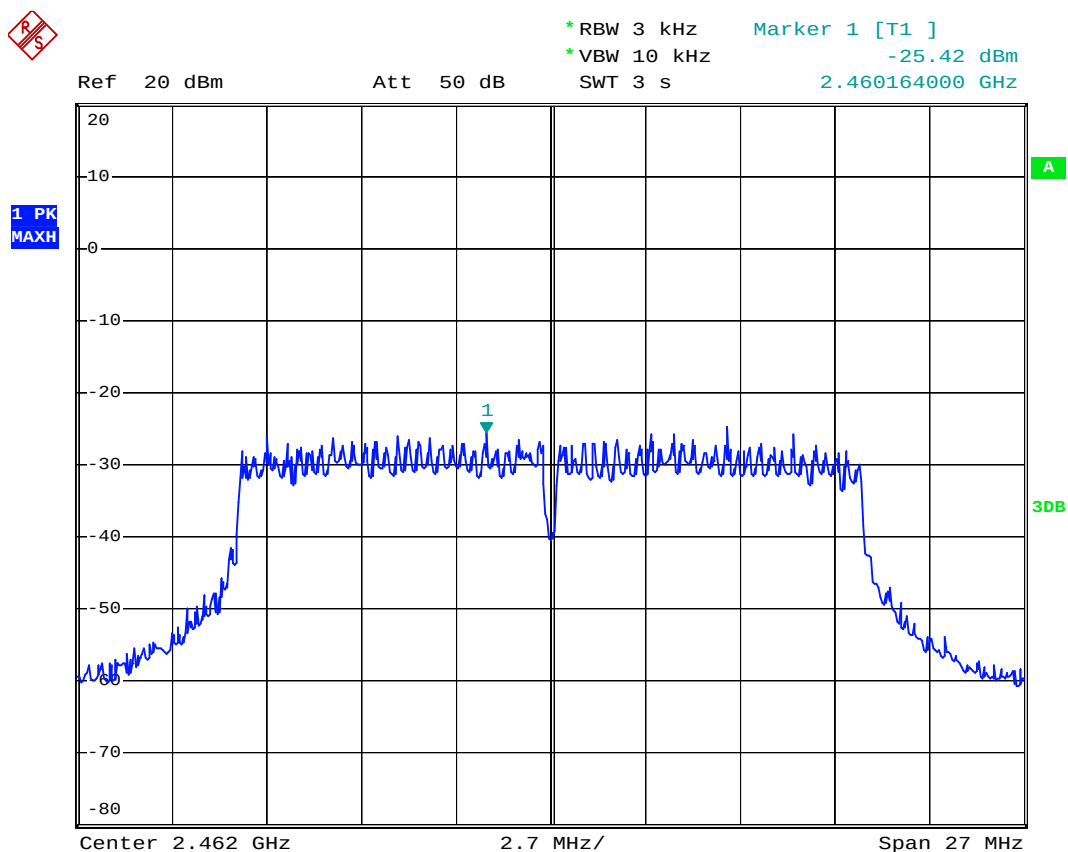
Date: 26.OCT.2012 11:07:41

802.11n Channel Middle 2437MHz (20MHz)



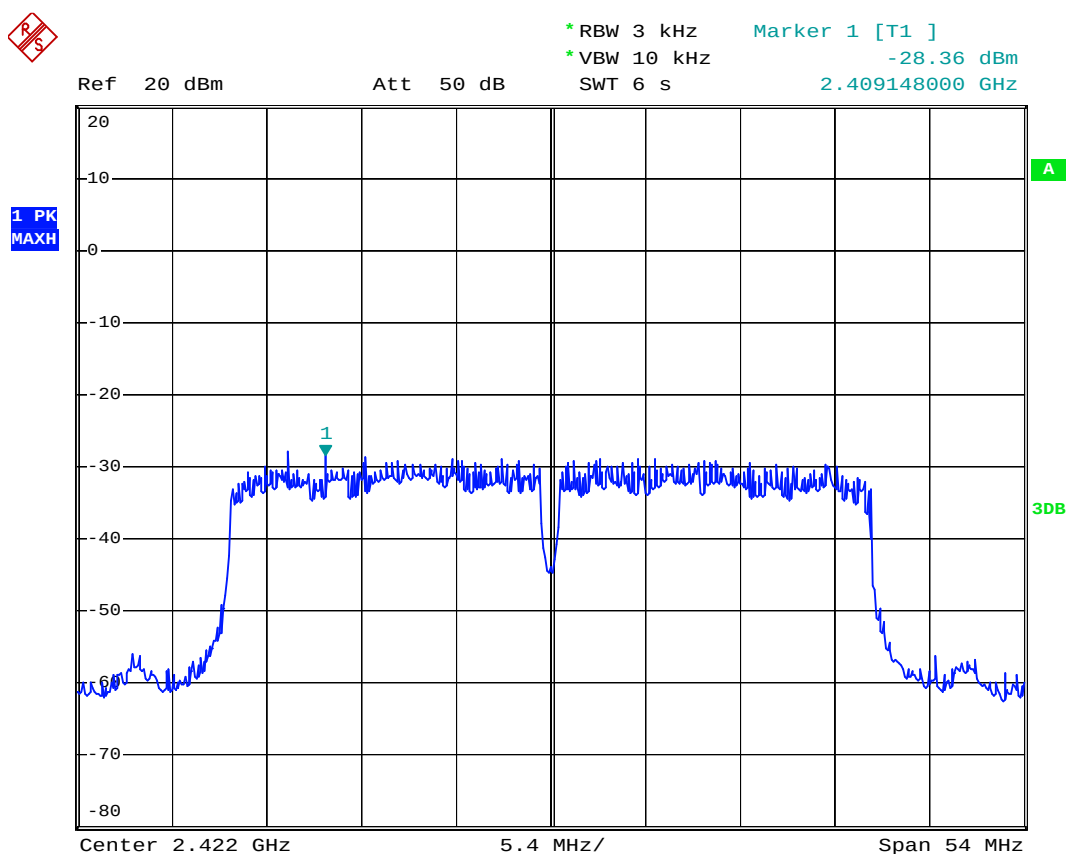
Date: 26.OCT.2012 11:08:34

802.11n Channel High 2462MHz(20MHz)



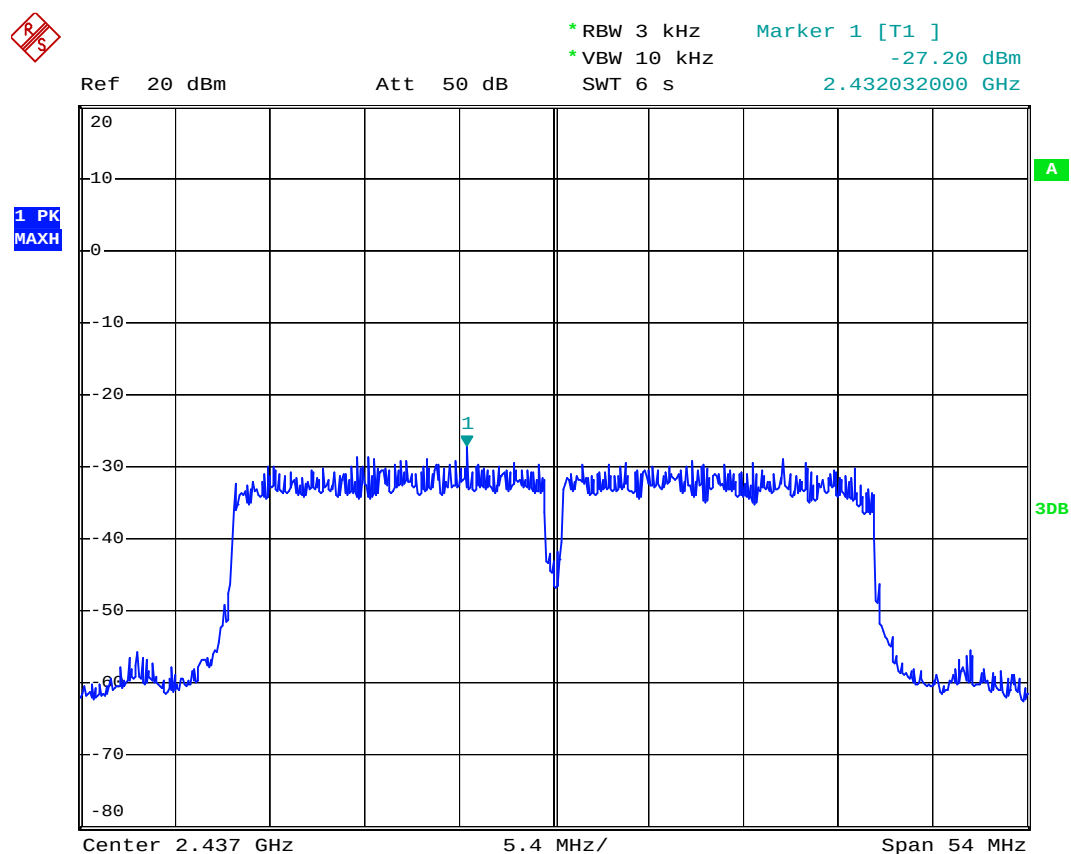
Date: 26.OCT.2012 11:09:17

802.11n Channel Low 2422MHz (40MHz)



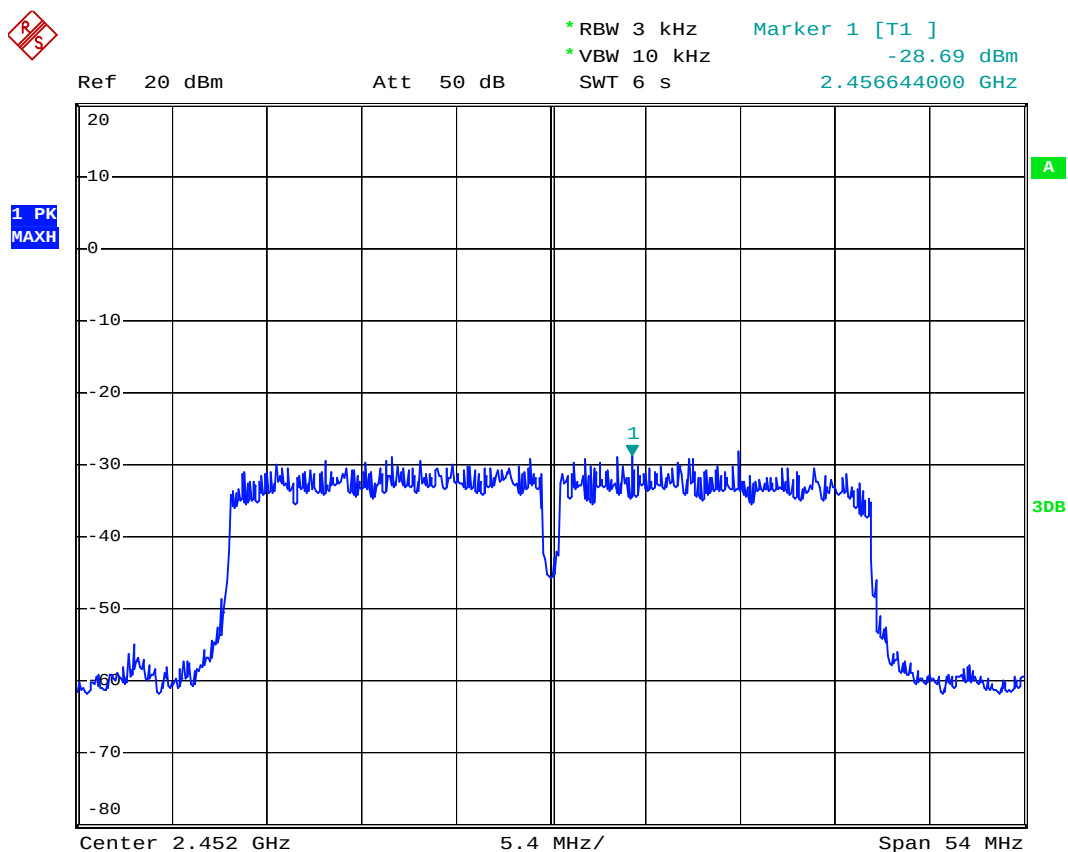
Date: 26.OCT.2012 11:19:27

802.11n Channel Middle 2437MHz(40MHz)



Date: 26.OCT.2012 11:20:06

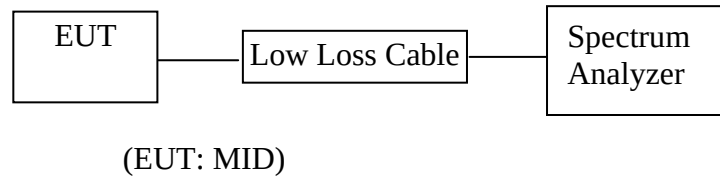
802.11n Channel High 2452MHz(40MHz)



Date: 26.OCT.2012 11:20:55

8. BAND EDGE COMPLIANCE TEST

8.1. Block Diagram of Test Setup



8.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

8.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.3.1. MID (EUT)

Model Number	:	SP712
Serial Number	:	N/A
Manufacturer	:	NEXGEN GLOBAL LIMITED

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz MHz. We select 2412MHz, 2462MHz and 2422MHz, 2452MHz TX frequency to transmit.

8.5. Test Procedure

Conducted Band Edge:

8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

8.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

Radiate Band Edge:

8.5.3. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

8.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

8.5.5. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

8.5.6. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

8.5.7. The band edges was measured and recorded.

8.6. Test Result

Pass**Conducted test**

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	TX	Test Engineer:	Pei

The test was performed with 802.11b		
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	37.92	> 20dBc
2462	39.23	> 20dBc

The test was performed with 802.11g		
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	29.50	> 20dBc
2462	32.69	> 20dBc

The test was performed with 802.11n (20MHz)		
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	30.53	> 20dBc
2462	32.88	> 20dBc

The test was performed with 802.11n (40MHz)		
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2422	26.53	> 20dBc
2452	30.37	> 20dBc

802.11b Channel Low 2412MHz

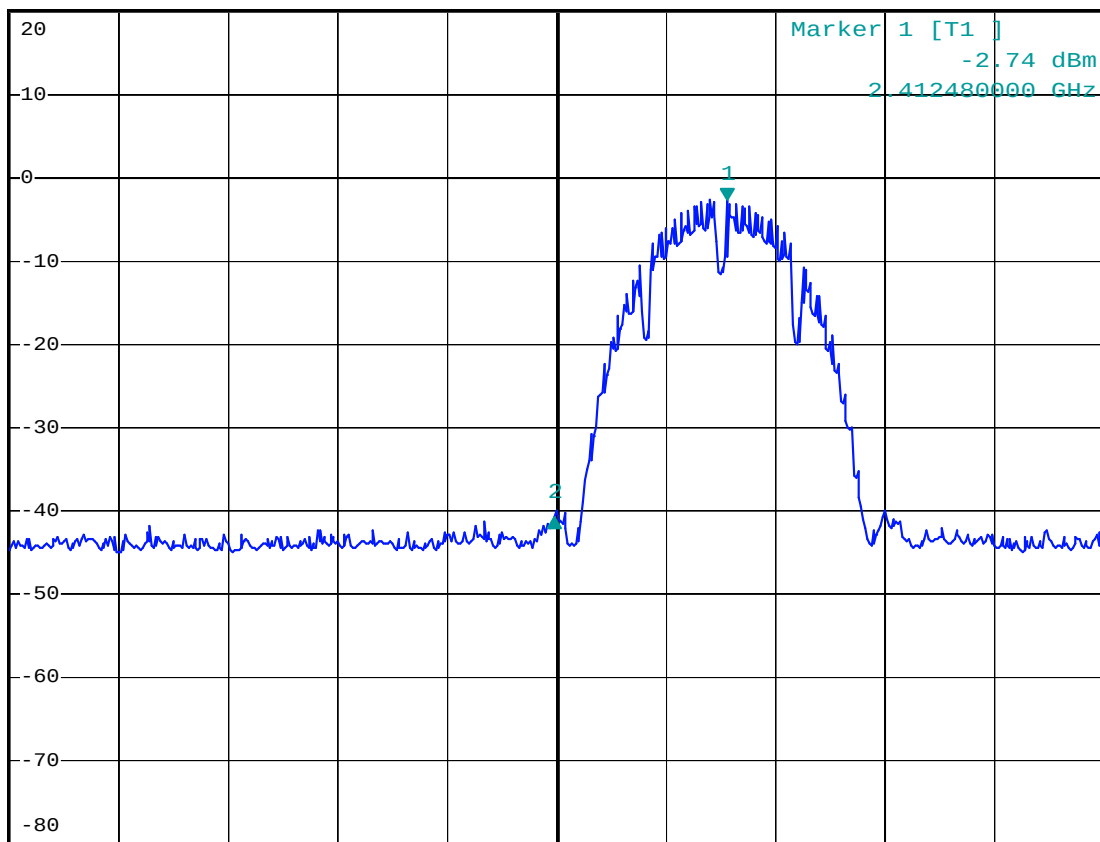


* RBW 100 kHz Delta 2 [T1]
 * VBW 300 kHz -37.92 dB
 * SWT 10 ms -12.640000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



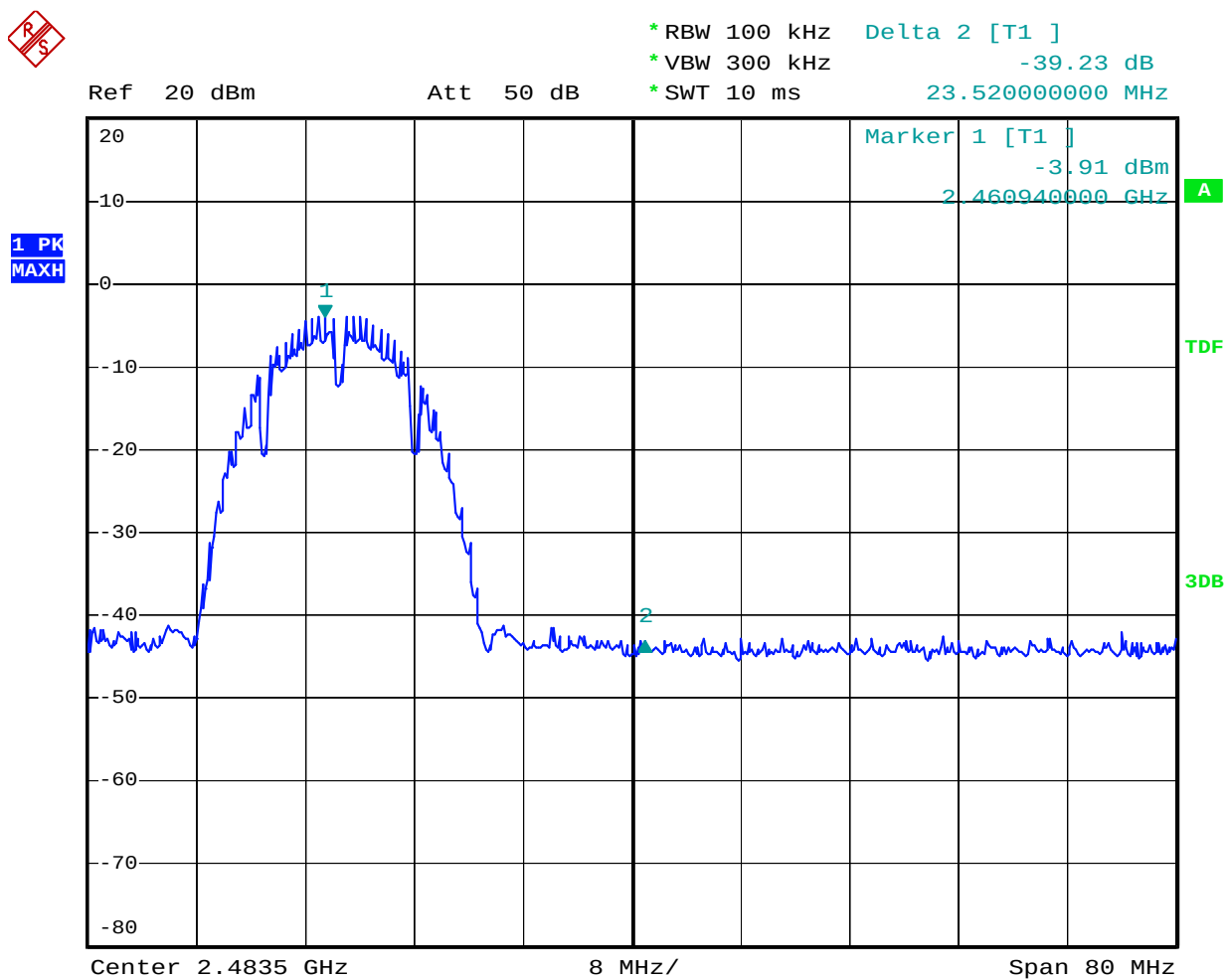
Center 2.4 GHz

8 MHz/

Span 80 MHz

Date: 18.OCT.2012 09:11:04

802.11b Channel High 2462MHz



Date: 18.OCT.2012 09:12:14

802.11g Channel Low 2412MHz

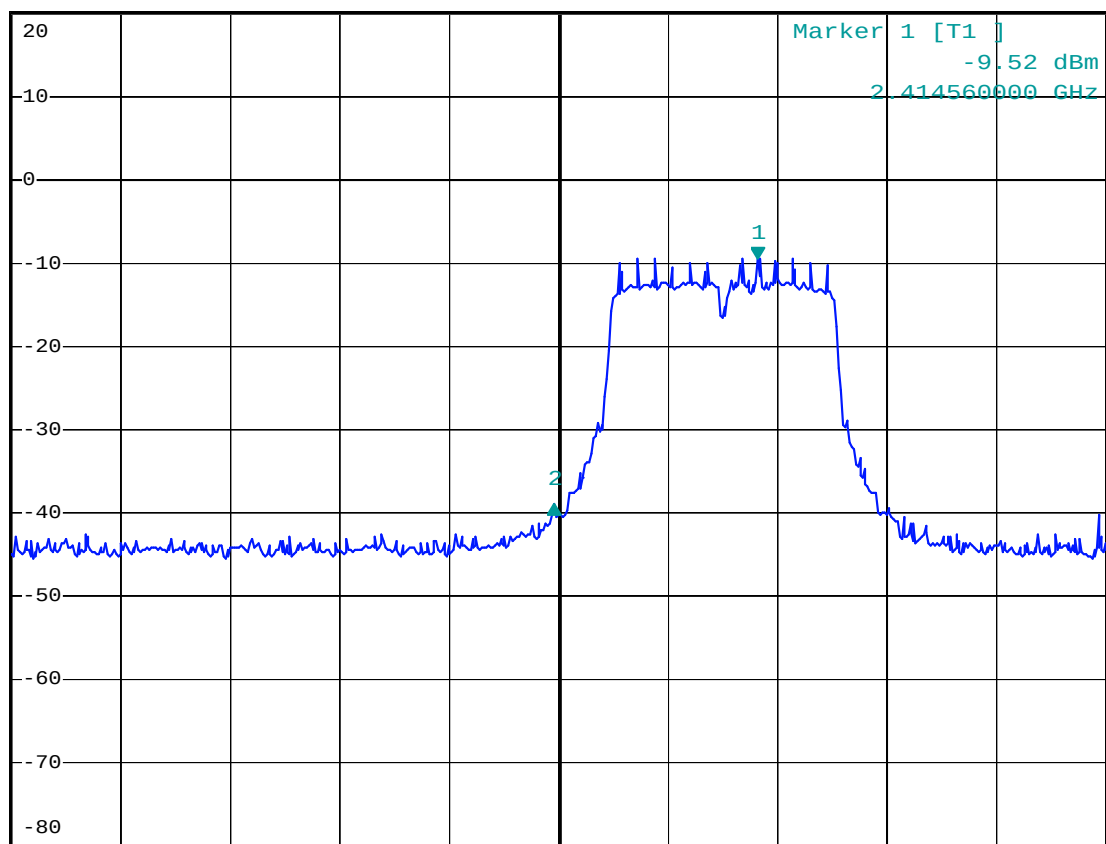


* RBW 100 kHz Delta 2 [T1]
 * VBW 300 kHz -29.50 dB
 * SWT 10 ms -14.880000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
 MAXH



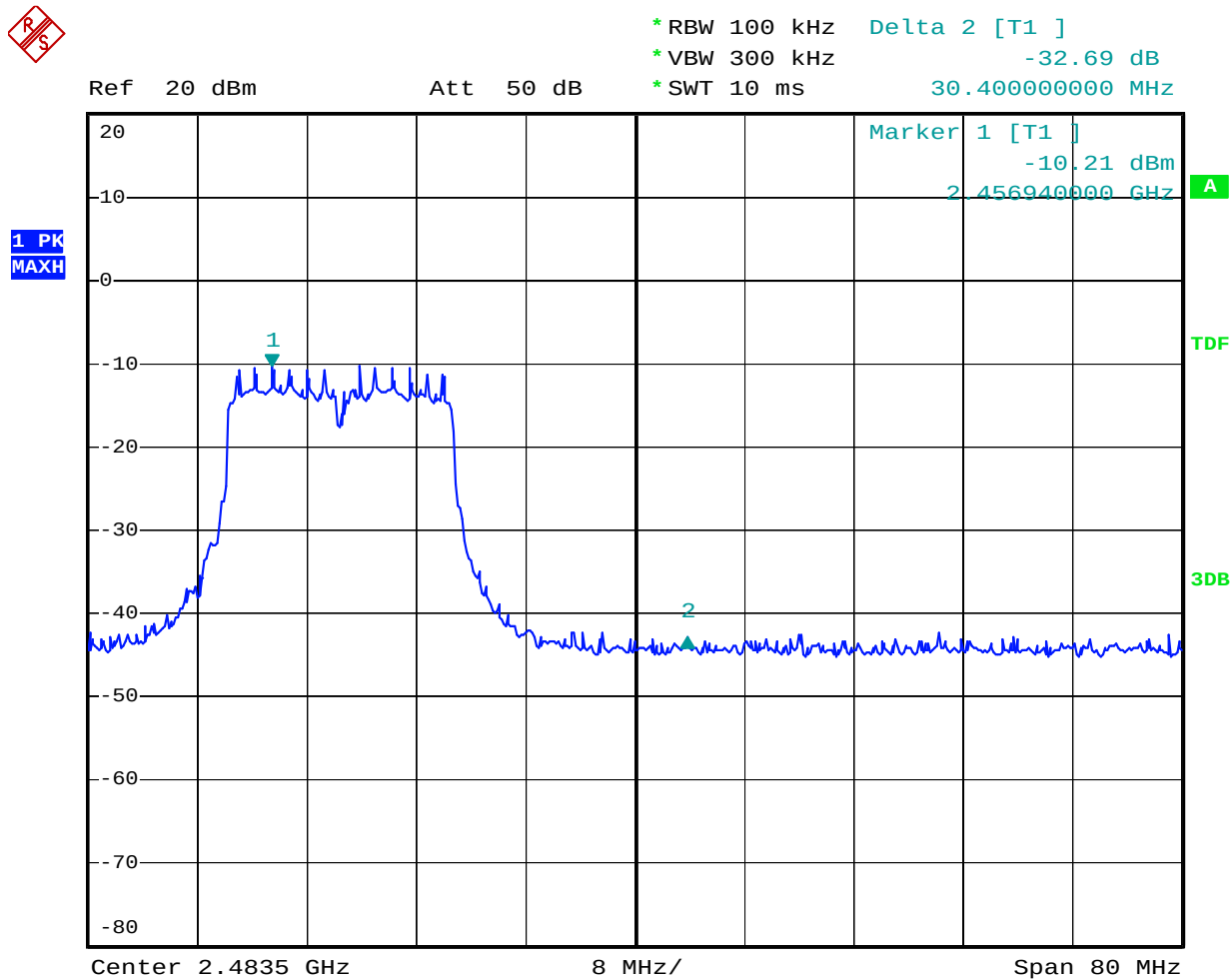
Center 2.4 GHz

8 MHz/

Span 80 MHz

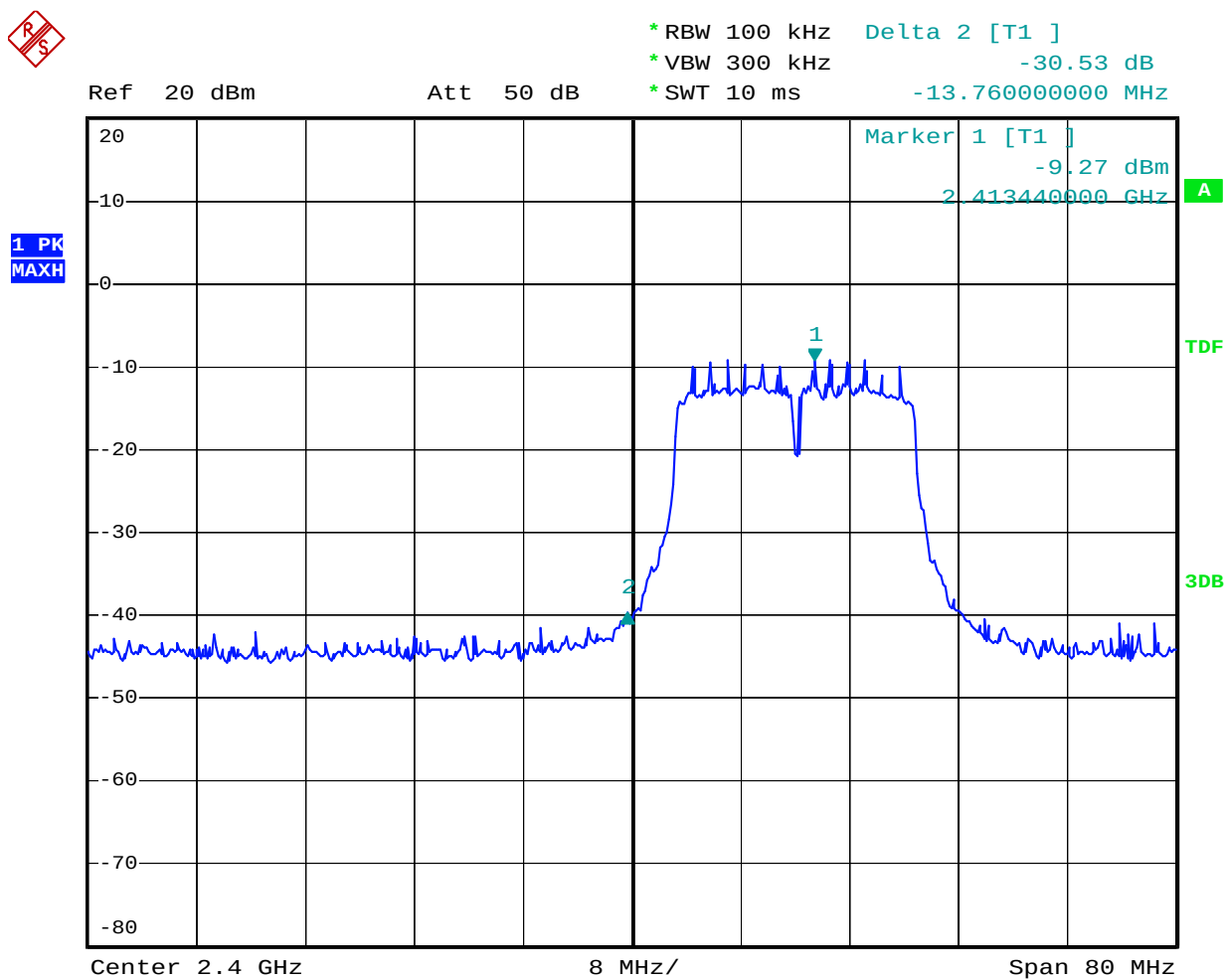
Date: 18.OCT.2012 09:38:56

802.11g Channel High 2462MHz



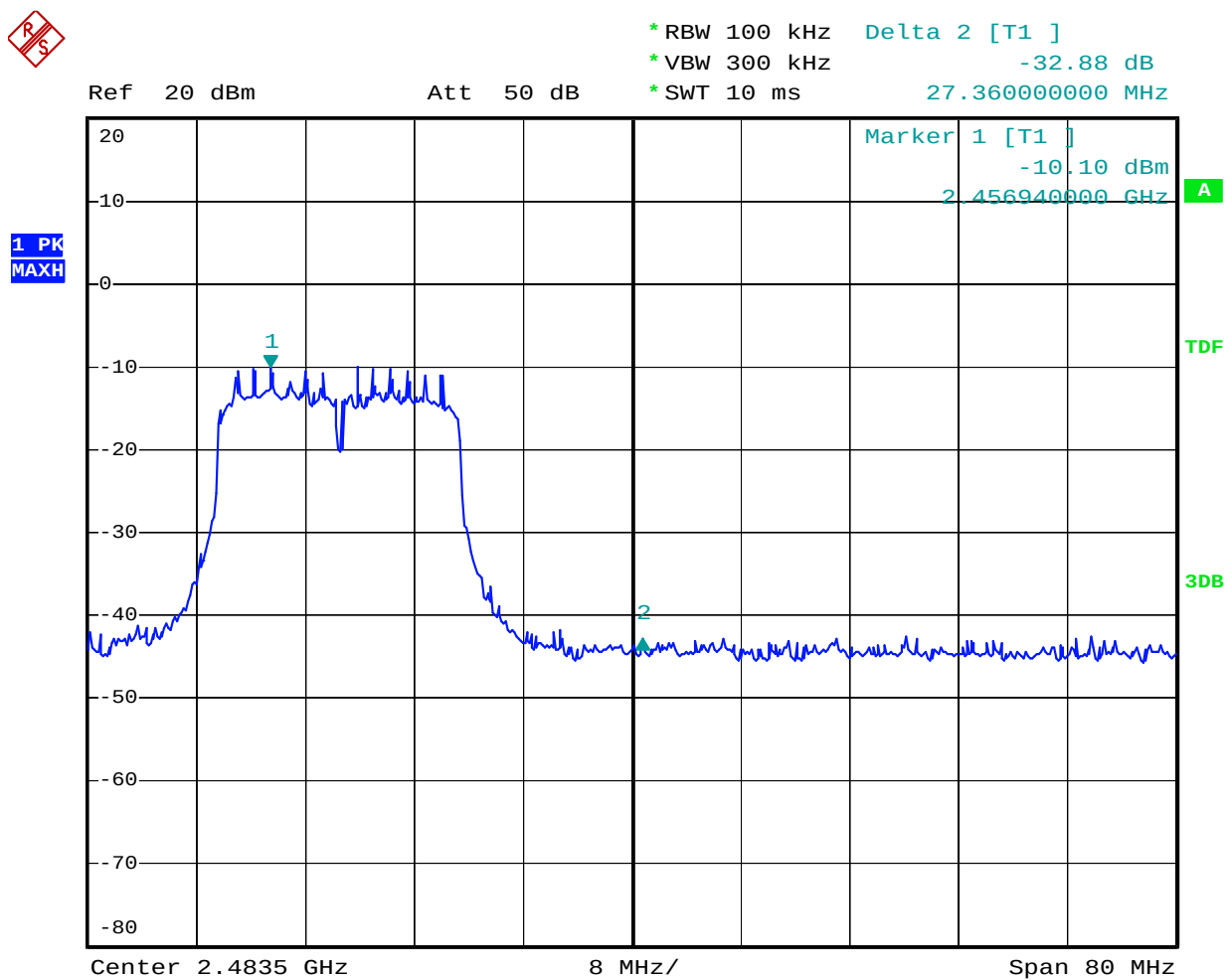
Date: 18.OCT.2012 09:39:53

802.11n Channel Low 2412MHz (20MHz)



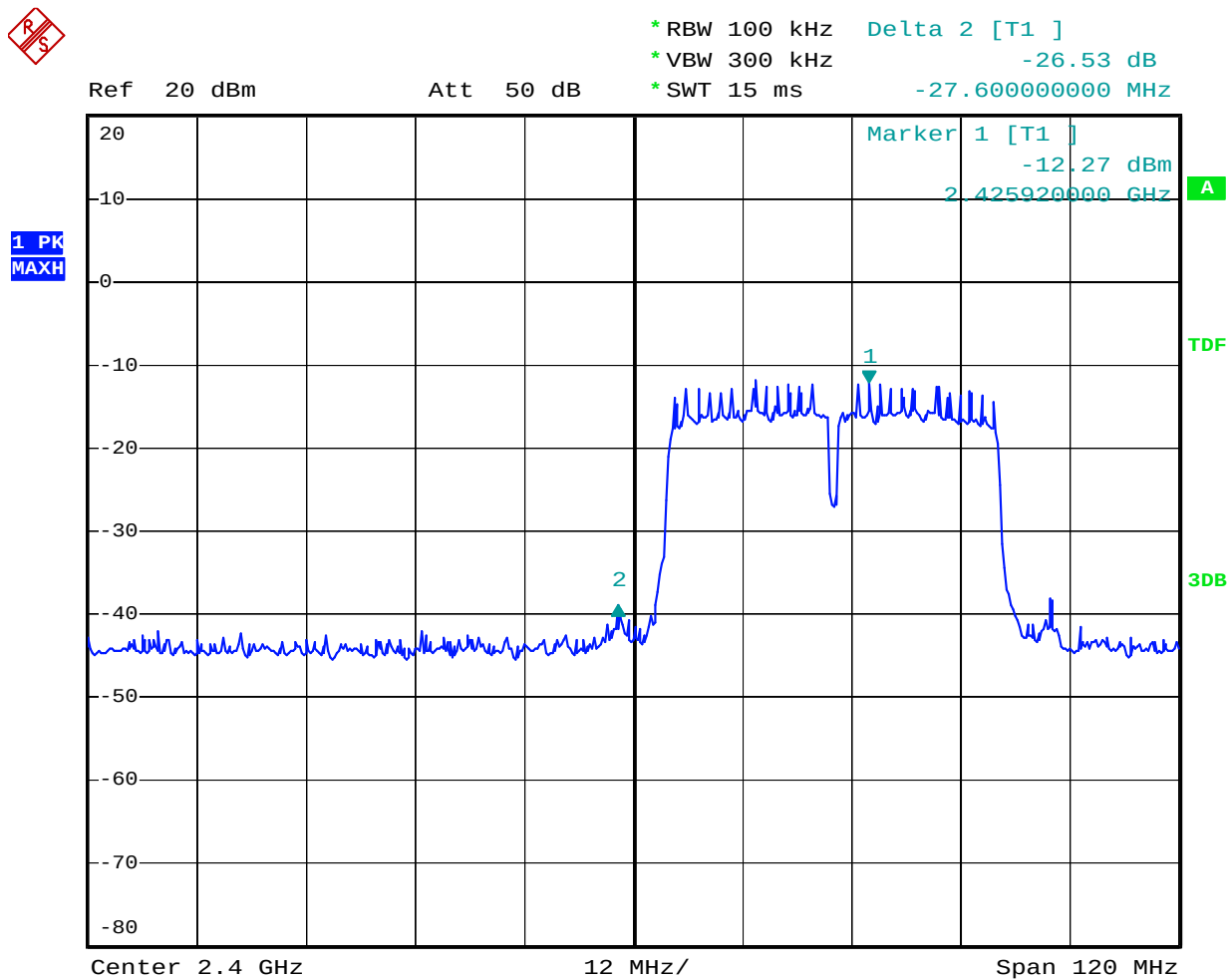
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802.11n Channel High 2462MHz (20MHz)



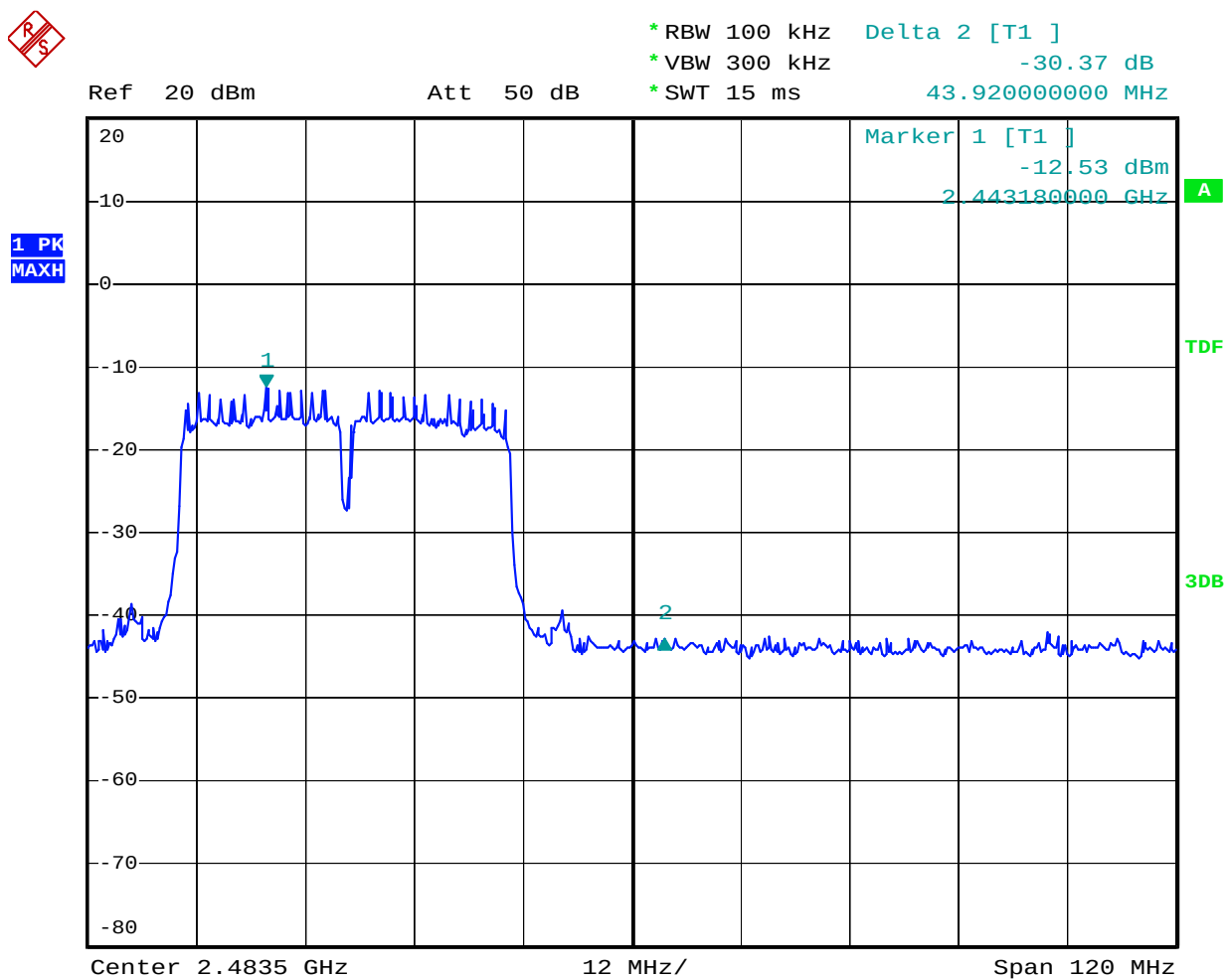
Date: 18.OCT.2012 10:16:22

802.11n Channel Low 2422MHz (40MHz)



Date: 18.OCT.2012 10:41:57

802.11n Channel High 2452MHz (40MHz)



Date: 23.AUG.2012 14:43:04

Radiated Band Edge Result

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	44.69	49.50	-7.81	36.88	41.69	54.00	74.00	-17.12	-32.31	Vertical
2332.150	45.58	50.40	-7.81	37.77	42.59	54.00	74.00	-16.23	-31.41	Vertical
2390.000	45.67	50.51	-7.53	38.14	42.98	54.00	74.00	-15.86	-31.02	Vertical
2310.000	43.95	48.17	-7.81	36.14	40.36	54.00	74.00	-17.86	-33.64	Horizontal
2332.150	42.25	47.65	-7.81	34.44	39.84	54.00	74.00	-19.56	-34.16	Horizontal
2390.000	42.18	47.70	-7.53	34.65	40.17	54.00	74.00	-19.35	-33.83	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	45.96	50.85	-7.37	38.59	43.48	54.00	74.00	-15.41	-30.52	Vertical
2487.190	43.57	48.22	-7.38	36.19	40.84	54.00	74.00	-17.81	-33.16	Vertical
2500.000	41.21	46.76	-7.40	33.81	39.36	54.00	74.00	-20.19	-34.64	Vertical
2483.869	46.57	51.58	-7.38	39.19	44.20	54.00	74.00	-14.81	-29.80	Horizontal
2487.982	45.96	51.32	-7.38	38.58	43.94	54.00	74.00	-15.42	-30.06	Horizontal
2500.000	42.47	47.73	-7.40	35.07	40.33	54.00	74.00	-18.93	-33.67	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	46.59	51.24	-7.81	38.78	43.43	54.00	74.00	-15.22	-30.57	Vertical
2332.000	46.86	51.41	-7.81	39.05	43.60	54.00	74.00	-14.95	-30.40	Vertical
2390.000	52.47	57.48	-7.53	44.94	49.95	54.00	74.00	-9.06	-24.05	Vertical
2310.000	42.58	48.14	-7.81	34.77	40.33	54.00	74.00	-19.23	-33.67	Horizontal
2332.000	43.25	48.94	-7.81	35.44	41.13	54.00	74.00	-18.56	-32.87	Horizontal
2390.000	52.17	57.28	-7.53	44.64	49.75	54.00	74.00	-9.36	-24.25	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	51.17	55.69	-7.37	43.80	48.32	54.00	74.00	-10.20	-25.68	Vertical
2487.000	48.29	52.69	-7.38	40.91	45.31	54.00	74.00	-13.09	-28.69	Vertical
2500.000	41.69	46.63	-7.40	34.29	39.23	54.00	74.00	-19.71	-34.77	Vertical
2483.500	53.85	57.59	-7.37	46.48	50.22	54.00	74.00	-7.52	-23.78	Horizontal
2487.000	52.96	56.53	-7.38	45.58	49.15	54.00	74.00	-8.42	-24.85	Horizontal
2500.045	41.28	46.95	-7.40	33.88	39.55	54.00	74.00	-20.12	-34.45	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel Low 2412MHz (20MHz)	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	46.68	51.99	-7.81	38.87	44.18	54.00	74.00	-15.13	-29.82	Vertical
2332.916	46.66	51.85	-7.79	38.87	44.06	54.00	74.00	-15.13	-29.94	Vertical
2390.000	53.26	57.59	-7.53	45.73	50.06	54.00	74.00	-8.27	-23.94	Vertical
2310.783	45.18	50.56	-7.81	37.37	42.75	54.00	74.00	-16.63	-31.25	Horizontal
2332.000	44.22	49.45	-7.81	36.41	41.64	54.00	74.00	-17.59	-32.36	Horizontal
2390.806	52.78	57.38	-7.52	45.26	49.86	54.00	74.00	-8.74	-24.14	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel High 2462MHz (20MHz)	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	53.48	58.58	-7.37	46.11	51.21	54.00	74.00	-7.89	-22.79	Vertical
2487.000	48.69	54.36	-7.38	41.31	46.98	54.00	74.00	-12.66	-27.02	Vertical
2500.000	43.69	48.91	-7.40	36.29	41.51	54.00	74.00	-17.71	-32.49	Vertical
2483.500	54.58	59.25	-7.37	47.21	51.88	54.00	74.00	-6.79	-22.12	Horizontal
2487.000	48.85	53.25	-7.38	41.47	45.87	54.00	74.00	-12.53	-28.13	Horizontal
2500.363	41.45	46.95	-7.40	34.05	39.55	54.00	74.00	-19.95	-34.45	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel Low 2422MHz (40MHz)	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2310.920	48.81	52.60	-7.81	41.00	44.79	54.00	74.00	-13.00	-29.21	Vertical
2332.000	47.96	52.42	-7.81	40.15	44.61	54.00	74.00	-13.85	-29.39	Vertical
2390.000	53.64	59.69	-7.53	46.11	52.16	54.00	74.00	-7.89	-21.84	Vertical
2310.000	42.90	47.00	-7.81	35.09	39.19	54.00	74.00	-18.91	-34.81	Horizontal
2332.000	41.15	46.38	-7.81	33.34	38.57	54.00	74.00	-20.66	-35.43	Horizontal
2390.000	49.69	54.96	-7.53	42.16	47.43	54.00	74.00	-11.84	-26.57	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel High 2452MHz (40MHz)	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	52.85	57.99	-7.37	45.48	50.62	54.00	74.00	-8.52	-23.38	Vertical
2487.507	52.16	57.17	-7.38	44.78	49.79	54.00	74.00	-9.22	-24.21	Vertical
2500.000	48.59	53.64	-7.40	41.19	46.24	54.00	74.00	-12.81	-27.76	Vertical
2483.500	51.44	56.96	-7.37	44.07	46.59	54.00	74.00	-9.93	24.41	Horizontal
2487.000	51.77	56.27	-7.38	44.39	48.89	54.00	74.00	-9.61	-25.11	Horizontal
2500.000	46.47	51.33	-7.40	39.07	43.93	54.00	74.00	-14.93	-30.07	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2551

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 1(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

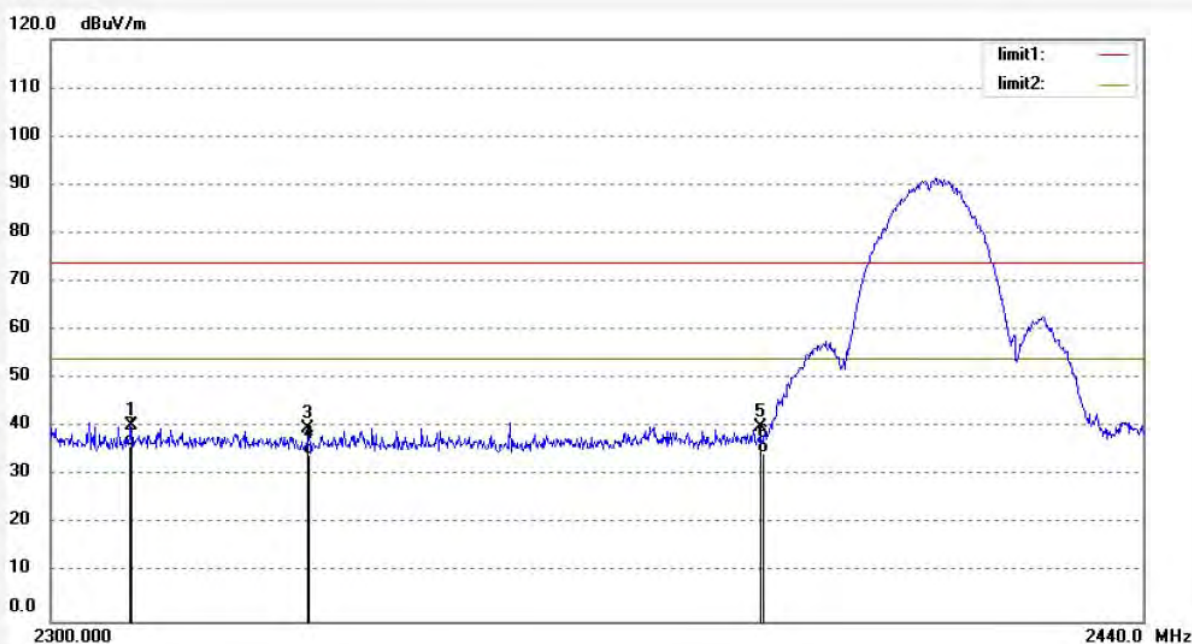
Date: 12/10/18/

Time: 0/39/31

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	48.17	-7.81	40.36	74.00	-33.64	peak			
2	2310.000	43.95	-7.81	36.14	54.00	-17.86	AVG			
3	2332.150	47.65	-7.81	39.84	74.00	-34.16	peak			
4	2332.150	42.25	-7.81	34.44	54.00	-19.56	AVG			
5	2390.000	47.70	-7.53	40.17	74.00	-33.83	peak			
6	2390.000	42.18	-7.53	34.65	54.00	-19.35	AVG			


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Site: 966 chamber

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Job No.: Bob #2552

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 1(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

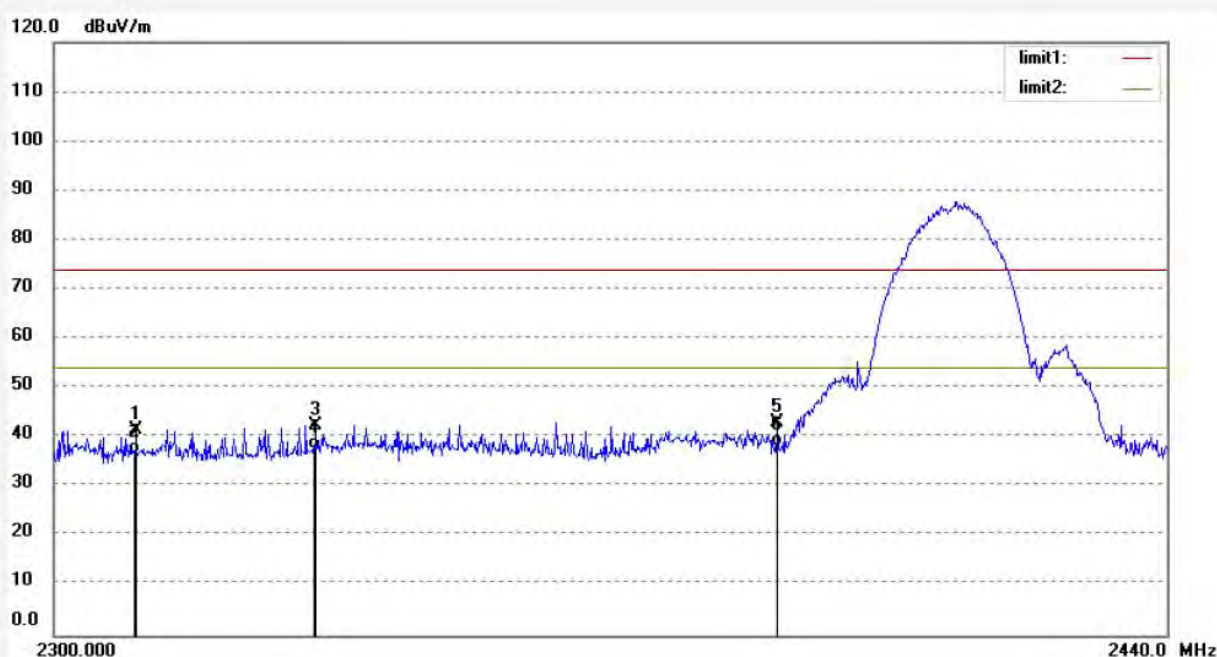
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Time: 0/41/26

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	49.50	-7.81	41.69	74.00	-32.31	peak			
2	2310.000	44.69	-7.81	36.88	54.00	-17.12	AVG			
3	2332.150	50.40	-7.81	42.59	74.00	-31.41	peak			
4	2332.150	45.58	-7.81	37.77	54.00	-16.23	AVG			
5	2390.000	50.51	-7.53	42.98	74.00	-31.02	peak			
6	2390.000	45.67	-7.53	38.14	54.00	-15.86	AVG			


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Site: 966 chamber

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Fax:+86-0755-26503396

Job No.: Bob #2554

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 11(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

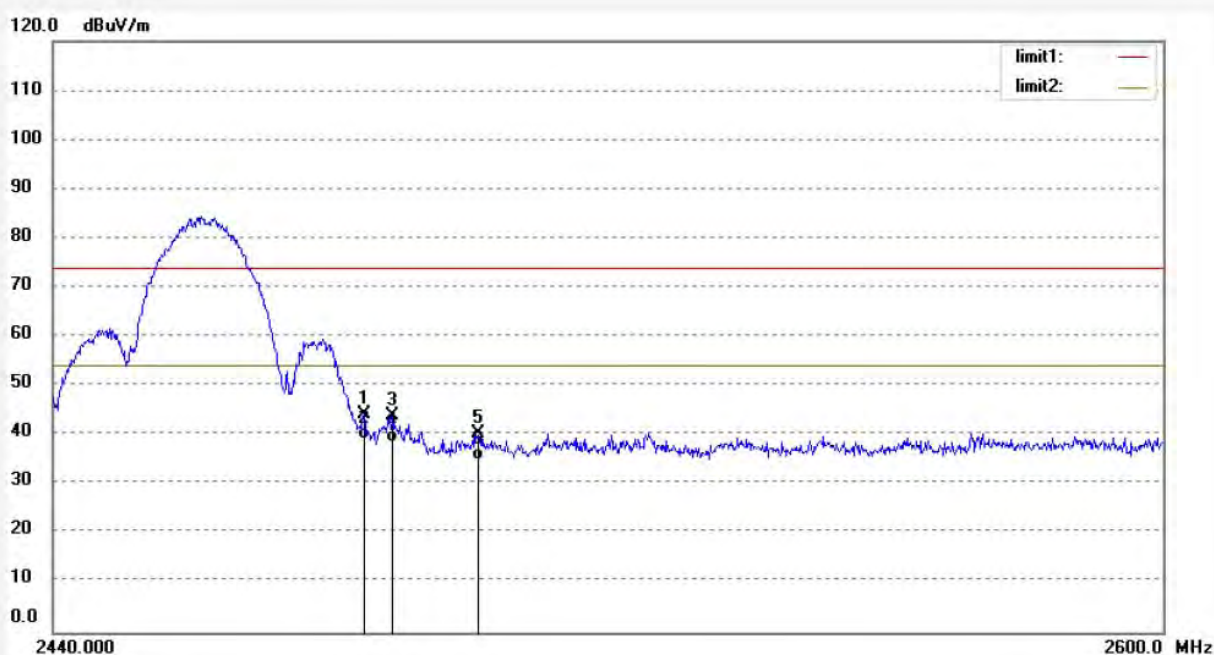
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Time: 0/47/42

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.869	51.58	-7.38	44.20	74.00	-29.80	peak			
2	2483.869	46.57	-7.38	39.19	54.00	-14.81	AVG			
3	2487.982	51.32	-7.38	43.94	74.00	-30.06	peak			
4	2487.982	45.96	-7.38	38.58	54.00	-15.42	AVG			
5	2500.000	47.73	-7.40	40.33	74.00	-33.67	peak			
6	2500.000	42.47	-7.40	35.07	54.00	-18.93	AVG			


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Job No.: Bob #2553

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 11(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

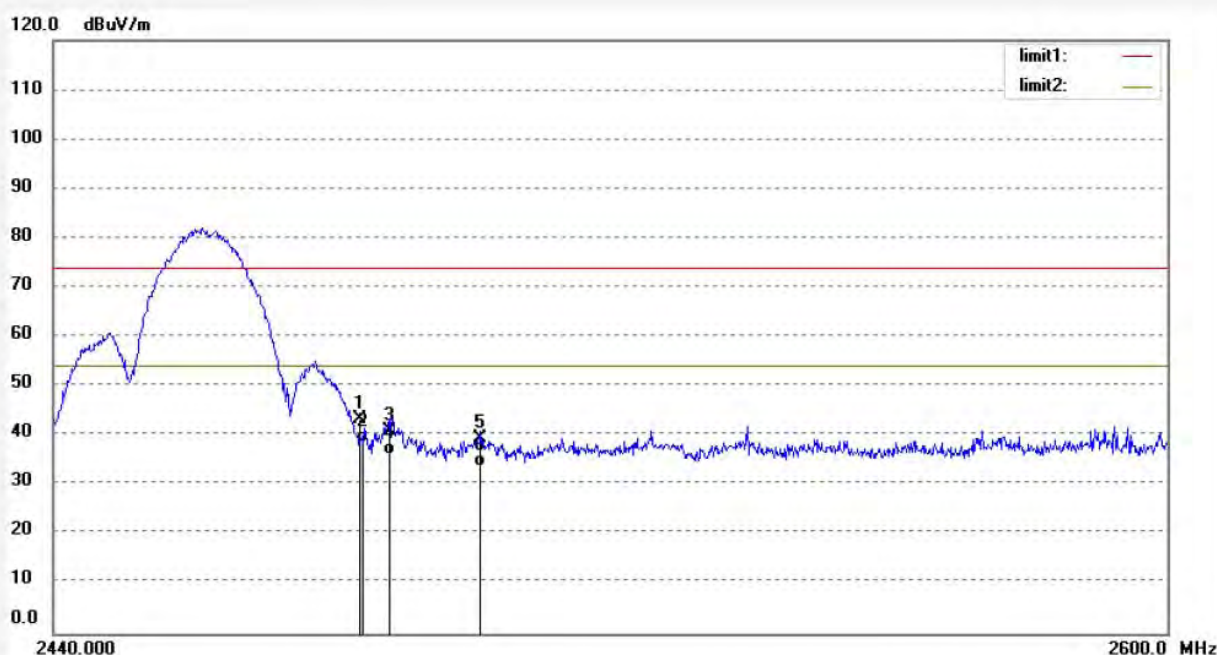
Date: 12/10/18/

Time: 0/44/37

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	50.85	-7.37	43.48	74.00	-30.52	peak			
2	2483.500	45.96	-7.37	38.59	54.00	-15.41	AVG			
3	2487.190	48.22	-7.38	40.84	74.00	-33.16	peak			
4	2487.190	43.57	-7.38	36.19	54.00	-17.81	AVG			
5	2500.000	46.76	-7.40	39.36	74.00	-34.64	peak			
6	2500.000	41.21	-7.40	33.81	54.00	-20.19	AVG			



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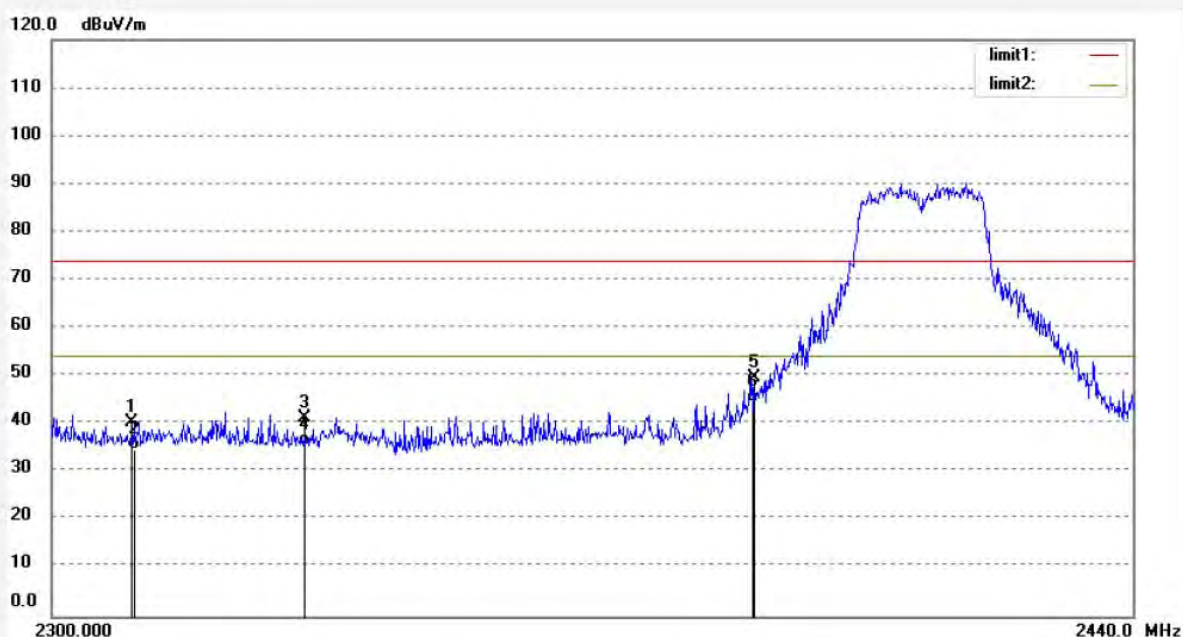
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #2558
Standard: FCC 15C PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 1(802.11g)
Model: SP712
Manufacturer: Natural Sound

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 12/10/18/
Time: 1/03/19
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	48.14	-7.81	40.33	74.00	-33.67	peak			
2	2310.000	42.58	-7.81	34.77	54.00	-19.23	AVG			
3	2332.000	48.94	-7.81	41.13	74.00	-32.87	peak			
4	2332.000	43.25	-7.81	35.44	54.00	-18.56	AVG			
5	2390.000	57.28	-7.53	49.75	74.00	-24.25	peak			
6	2390.000	52.17	-7.53	44.64	54.00	-9.36	AVG			


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Job No.: Bob #2557

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 1(802.11g)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

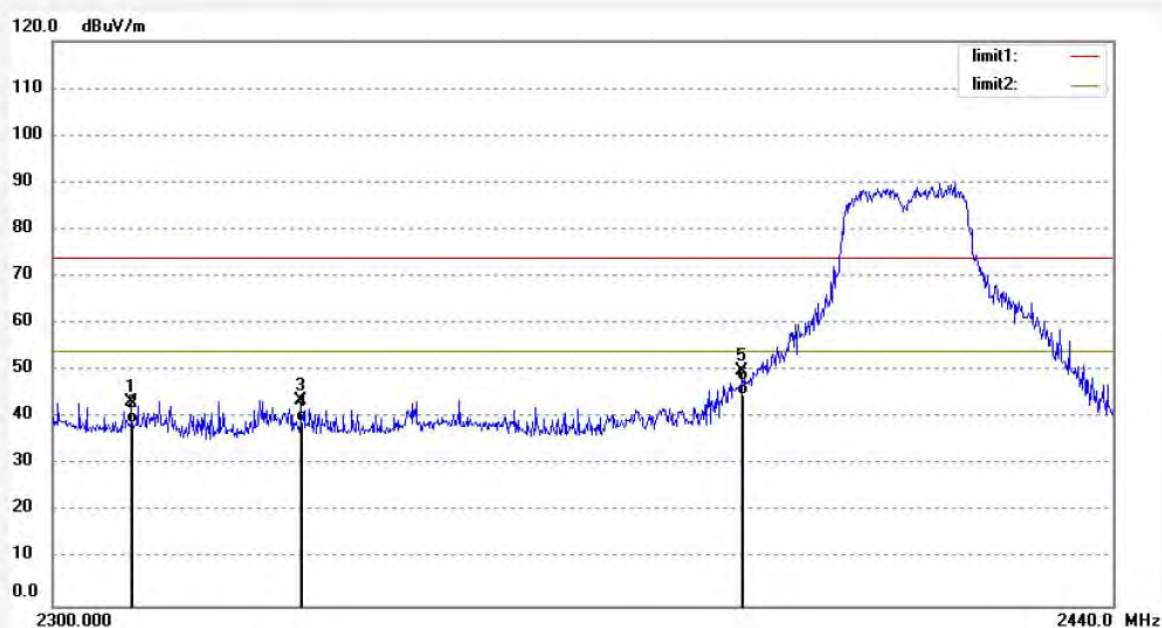
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Time: 0/59/52

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	51.24	-7.81	43.43	74.00	-30.57	peak			
2	2310.000	46.59	-7.81	38.78	54.00	-15.22	AVG			
3	2332.000	51.41	-7.81	43.60	74.00	-30.40	peak			
4	2332.000	46.86	-7.81	39.05	54.00	-14.95	AVG			
5	2390.000	57.48	-7.53	49.95	74.00	-24.05	peak			
6	2390.000	52.47	-7.53	44.94	54.00	-9.06	AVG			


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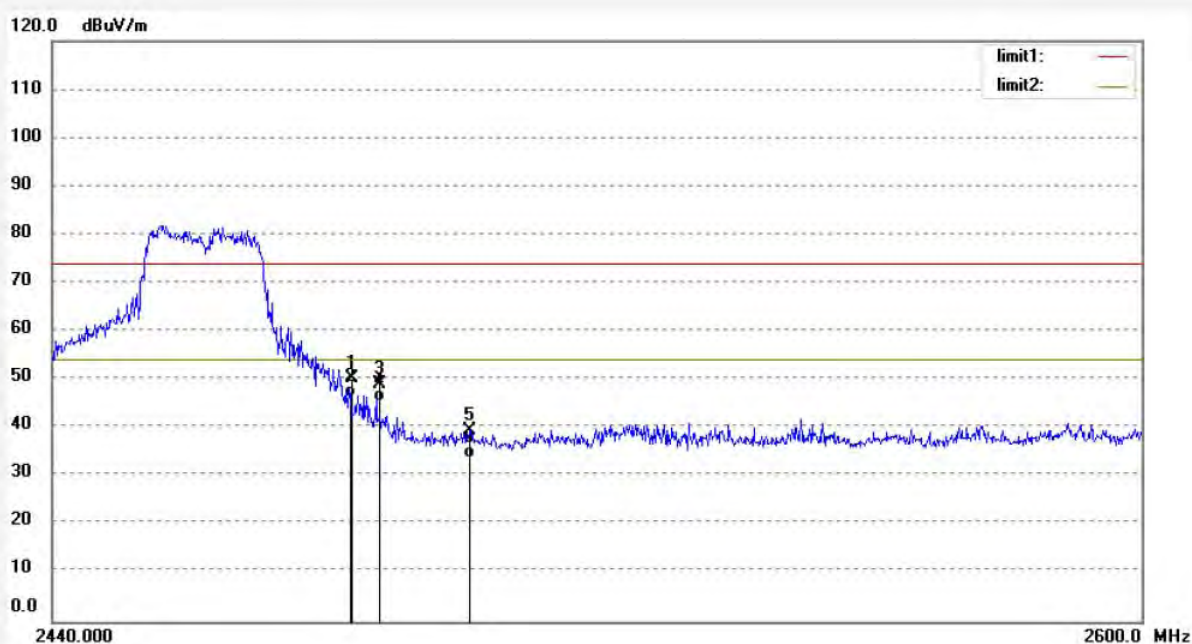
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 966 chamber
Tel:+86-0755-26503290
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Job No.: Bob #2555
Standard: FCC 15C PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 11(802.11g)
Model: SP712
Manufacturer: Natural Sound

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 12/10/18/
Time: 0/51/42
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	57.59	-7.37	50.22	74.00	-23.78	peak			
2	2483.500	53.85	-7.37	46.48	54.00	-7.52	AVG			
3	2487.000	56.53	-7.38	49.15	74.00	-24.85	peak			
4	2487.000	52.96	-7.38	45.58	54.00	-8.42	AVG			
5	2500.045	46.95	-7.40	39.55	74.00	-34.45	peak			
6	2500.045	41.28	-7.40	33.88	54.00	-20.12	AVG			


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Job No.: Bob #2556

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 11(802.11g)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

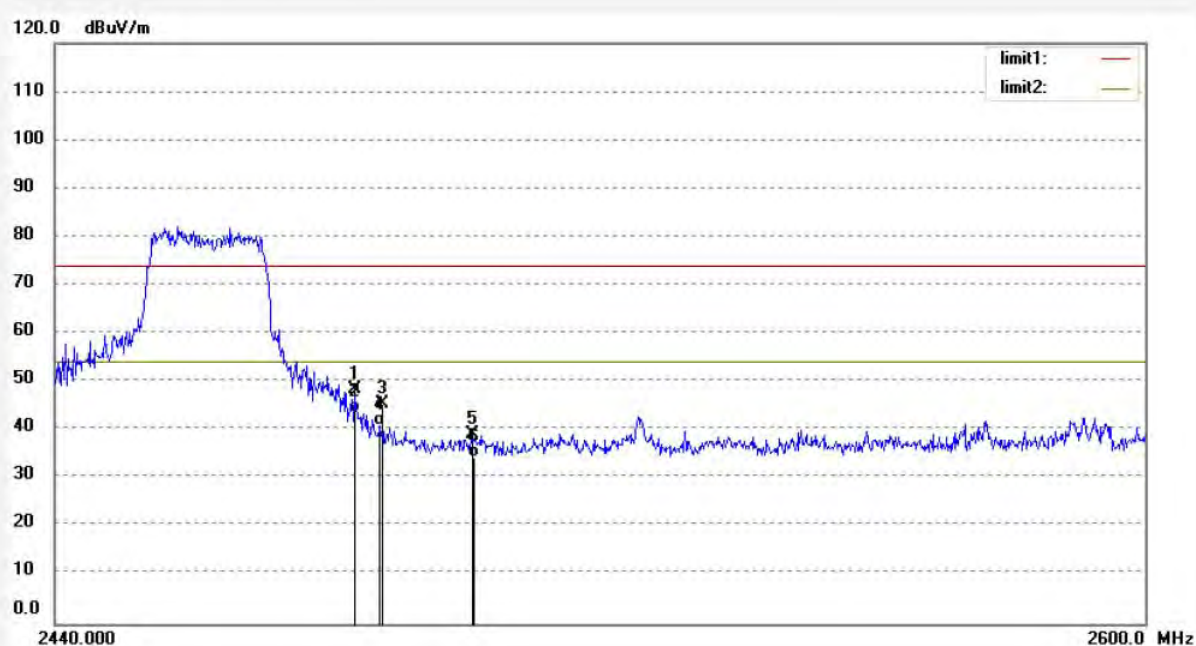
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Time: 0/55/16

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	55.69	-7.37	48.32	74.00	-25.68	peak			
2	2483.500	51.17	-7.37	43.80	54.00	-10.20	AVG			
3	2487.000	52.69	-7.38	45.31	74.00	-28.69	peak			
4	2487.000	48.29	-7.38	40.91	54.00	-13.09	AVG			
5	2500.000	46.63	-7.40	39.23	74.00	-34.77	peak			
6	2500.000	41.69	-7.40	34.29	54.00	-19.71	AVG			



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Site: 966 chamber

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Job No.: Bob #2559

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 1(802.11n)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

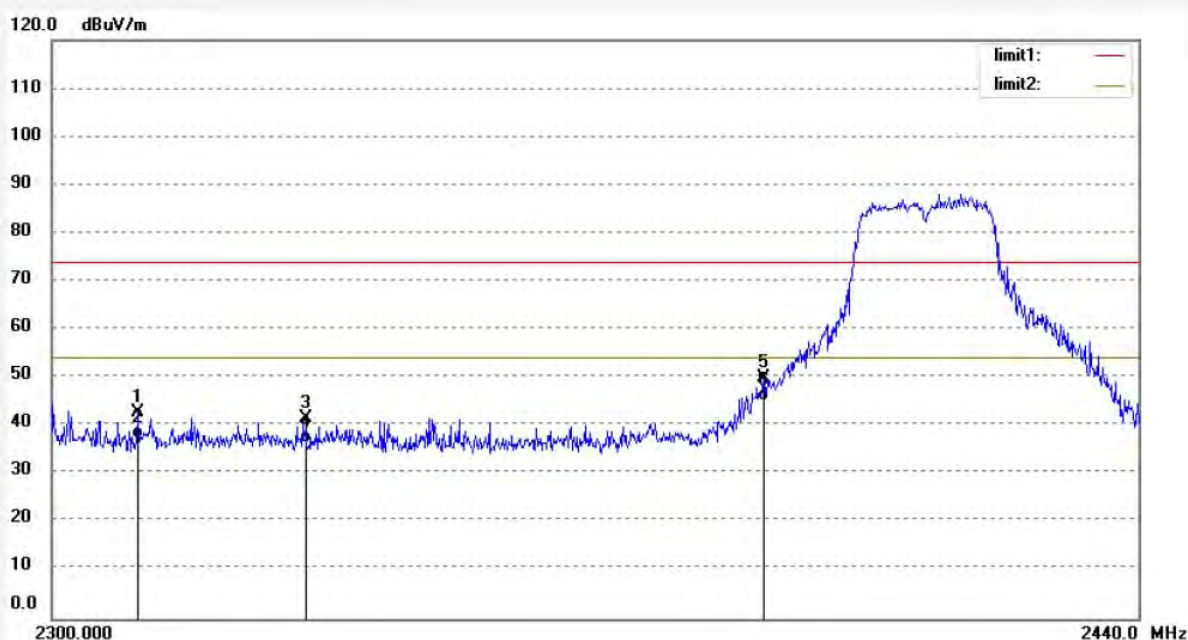
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Time: 1/06/52

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.783	50.56	-7.81	42.75	74.00	-31.25	peak			
2	2310.783	45.18	-7.81	37.37	54.00	-16.63	AVG			
3	2332.000	49.45	-7.81	41.64	74.00	-32.36	peak			
4	2332.000	44.22	-7.81	36.41	54.00	-17.59	AVG			
5	2390.806	57.38	-7.52	49.86	74.00	-24.14	peak			
6	2390.806	52.78	-7.52	45.26	54.00	-8.74	AVG			



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Site: 966 chamber

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Job No.: Bob #2560

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 1(802.11n)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

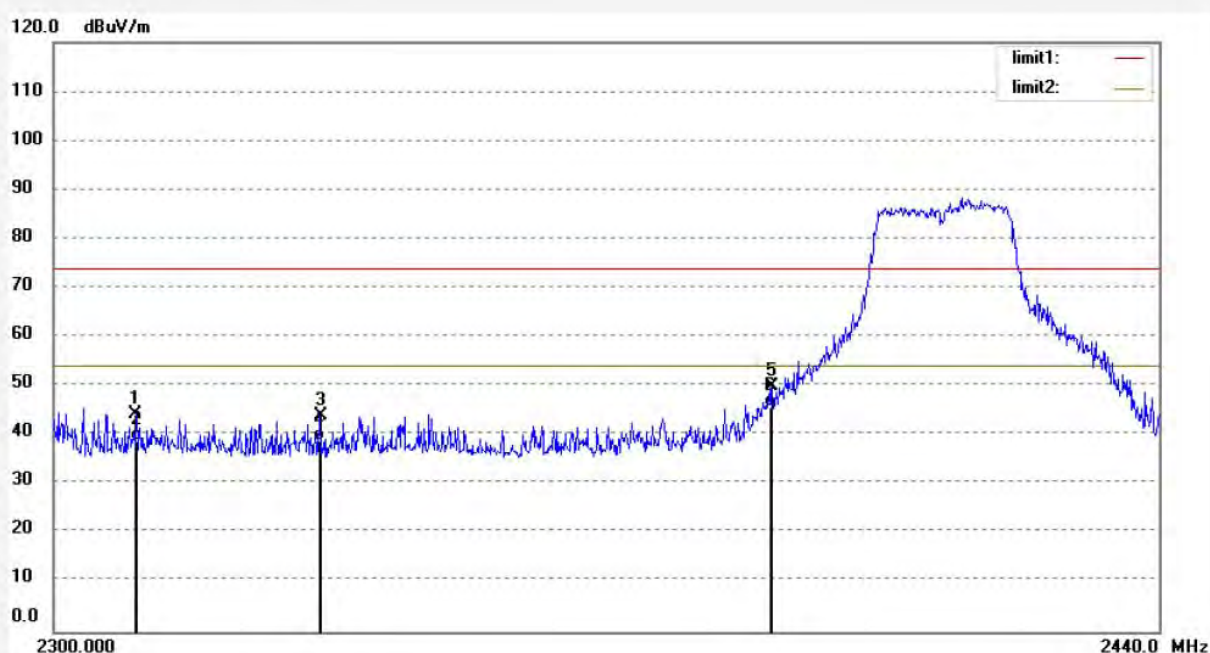
Date: 12/10/18/

Time: 1/09/13

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	51.99	-7.81	44.18	74.00	-29.82	peak			
2	2310.000	46.68	-7.81	38.87	54.00	-15.13	AVG			
3	2332.916	51.85	-7.79	44.06	74.00	-29.94	peak			
4	2332.916	46.66	-7.79	38.87	54.00	-15.13	AVG			
5	2390.000	57.59	-7.53	50.06	74.00	-23.94	peak			
6	2390.000	53.26	-7.53	45.73	54.00	-8.27	AVG			



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Job No.: Bob #2562

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 11(802.11n)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

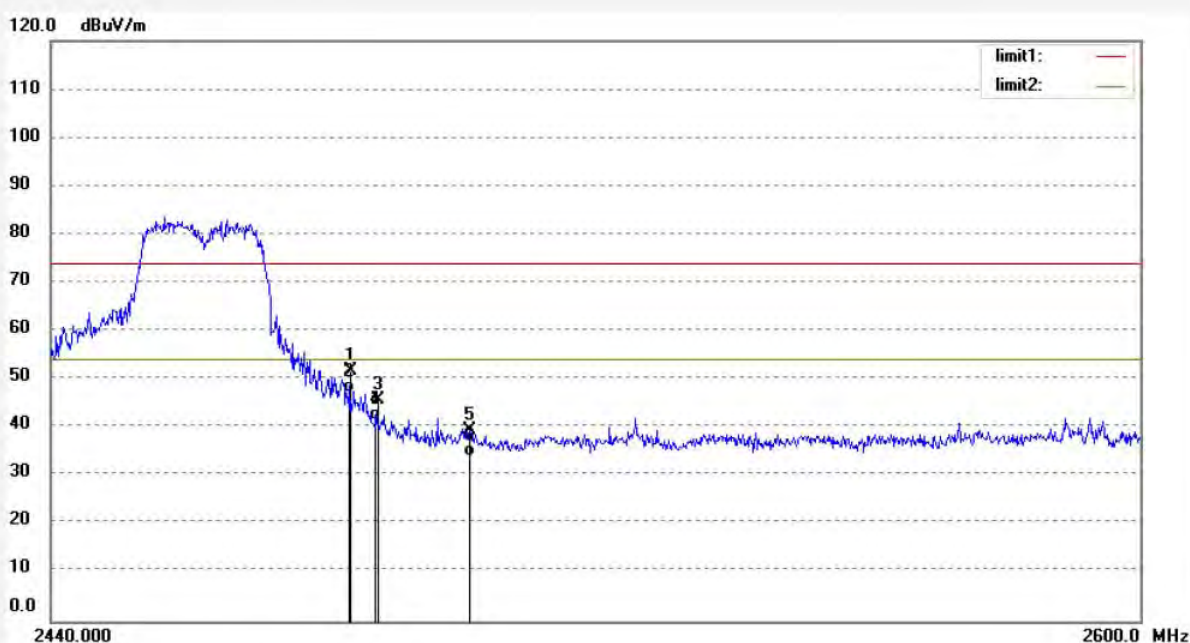
Date: 12/10/18/

Time: 1/18/30

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	59.25	-7.37	51.88	74.00	-22.12	peak			
2	2483.500	54.58	-7.37	47.21	54.00	-6.79	AVG			
3	2487.000	53.25	-7.38	45.87	74.00	-28.13	peak			
4	2487.000	48.85	-7.38	41.47	54.00	-12.53	AVG			
5	2500.363	46.95	-7.40	39.55	74.00	-34.45	peak			
6	2500.363	41.45	-7.40	34.05	54.00	-19.95	AVG			


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Job No.: Bob #2561

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 11(802.11n)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

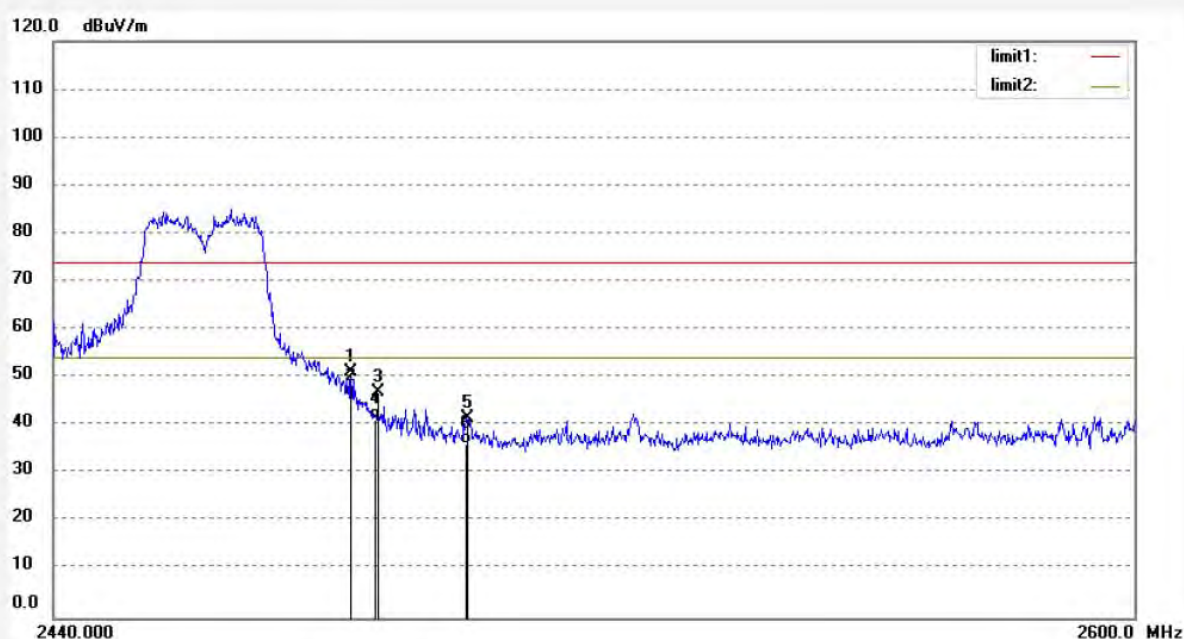
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Time: 1/13/39

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	58.58	-7.37	51.21	74.00	-22.79	peak			
2	2483.500	53.48	-7.37	46.11	54.00	-7.89	AVG			
3	2487.000	54.36	-7.38	46.98	74.00	-27.02	peak			
4	2487.000	48.69	-7.38	41.31	54.00	-12.69	AVG			
5	2500.000	48.91	-7.40	41.51	74.00	-32.49	peak			
6	2500.000	43.69	-7.40	36.29	54.00	-17.71	AVG			


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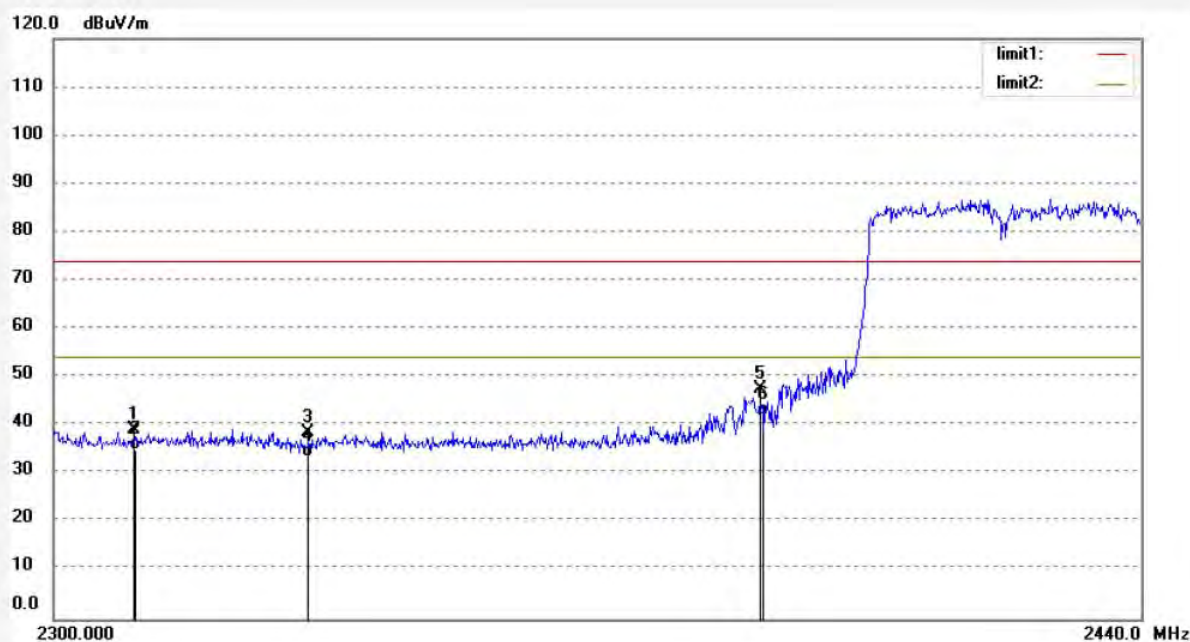
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

 Job No.: Bob #2566
 Standard: FCC 15C PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 24 C / 48 %
 EUT: MID
 Mode: TX Channel 3(802.11n)
 Model: SP712
 Manufacturer: Natural Sound

 Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 12/10/18/
 Time: 1/36/56
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	47.00	-7.81	39.19	74.00	-34.81	peak			
2	2310.000	42.90	-7.81	35.09	54.00	-18.91	AVG			
3	2332.000	46.38	-7.81	38.57	74.00	-35.43	peak			
4	2332.000	41.15	-7.81	33.34	54.00	-20.66	AVG			
5	2390.000	54.96	-7.53	47.43	74.00	-26.57	peak			
6	2390.000	49.69	-7.53	42.16	54.00	-11.84	AVG			



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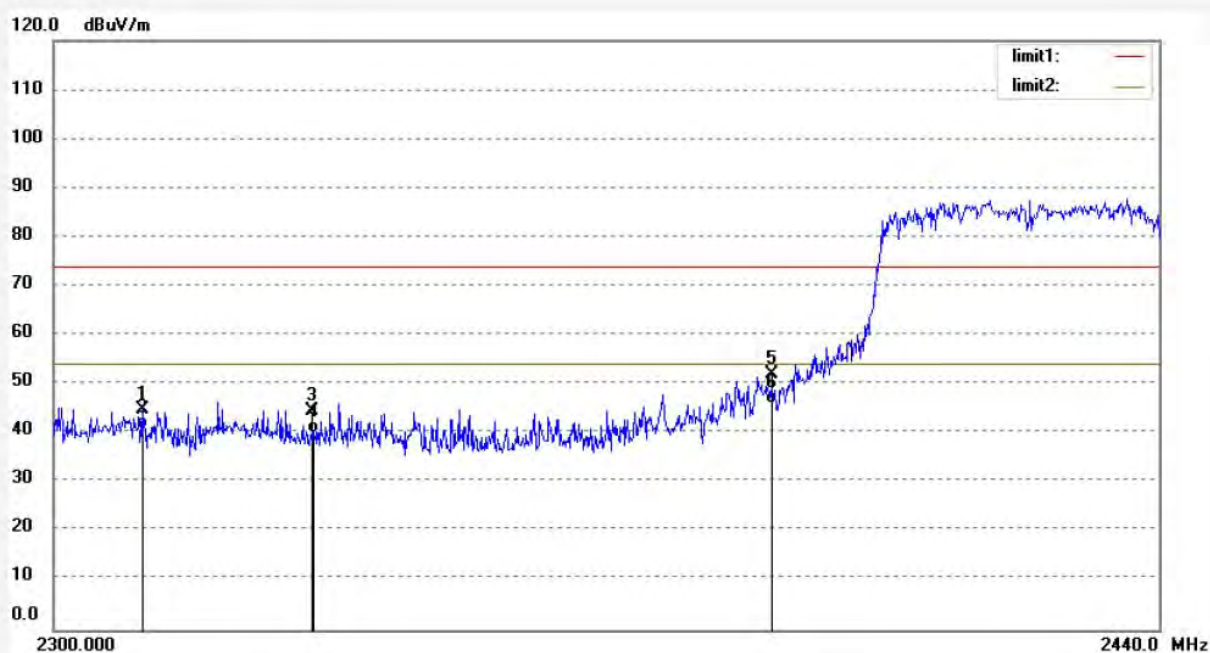
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #2565
Standard: FCC 15C PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 3(802.11n)
Model: SP712
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/10/18/
Time: 1/32/21
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.920	52.60	-7.81	44.79	74.00	-29.21	peak			
2	2310.920	48.81	-7.81	41.00	54.00	-13.00	AVG			
3	2332.000	52.42	-7.81	44.61	74.00	-29.39	peak			
4	2332.000	47.96	-7.81	40.15	54.00	-13.85	AVG			
5	2390.000	59.69	-7.53	52.16	74.00	-21.84	peak			
6	2390.000	53.64	-7.53	46.11	54.00	-7.89	AVG			

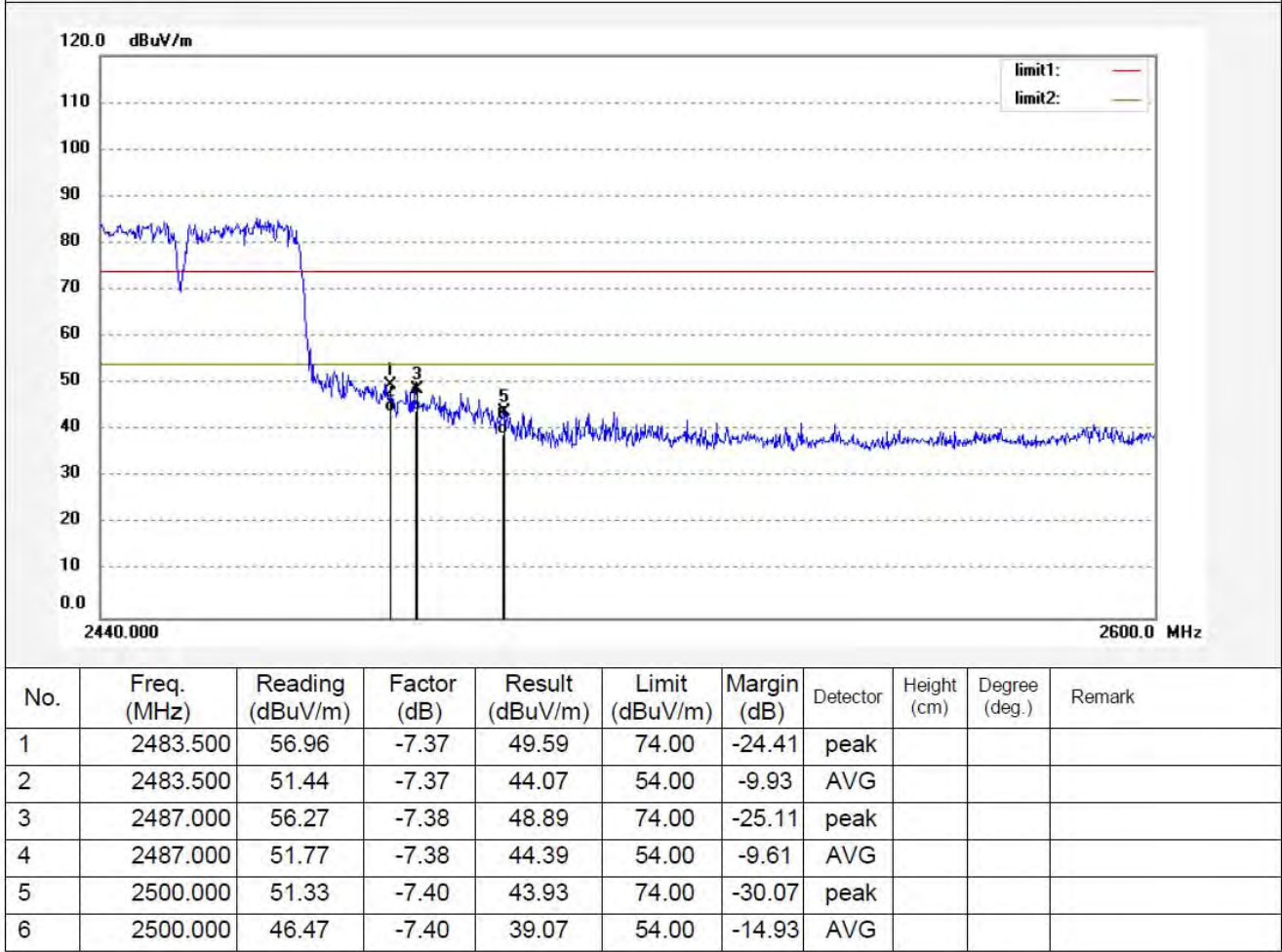


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: Bob #2563	Polarization: Horizontal
Standard: FCC 15C PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/10/18/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 1/23/00
EUT: MID	Engineer Signature:
Mode: TX Channel 9(802.11n)	Distance: 3m
Model: SP712	
Manufacturer: Natural Sound	

Note: Report NO.:ATE20122309





ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #2564

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 9(802.11n)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

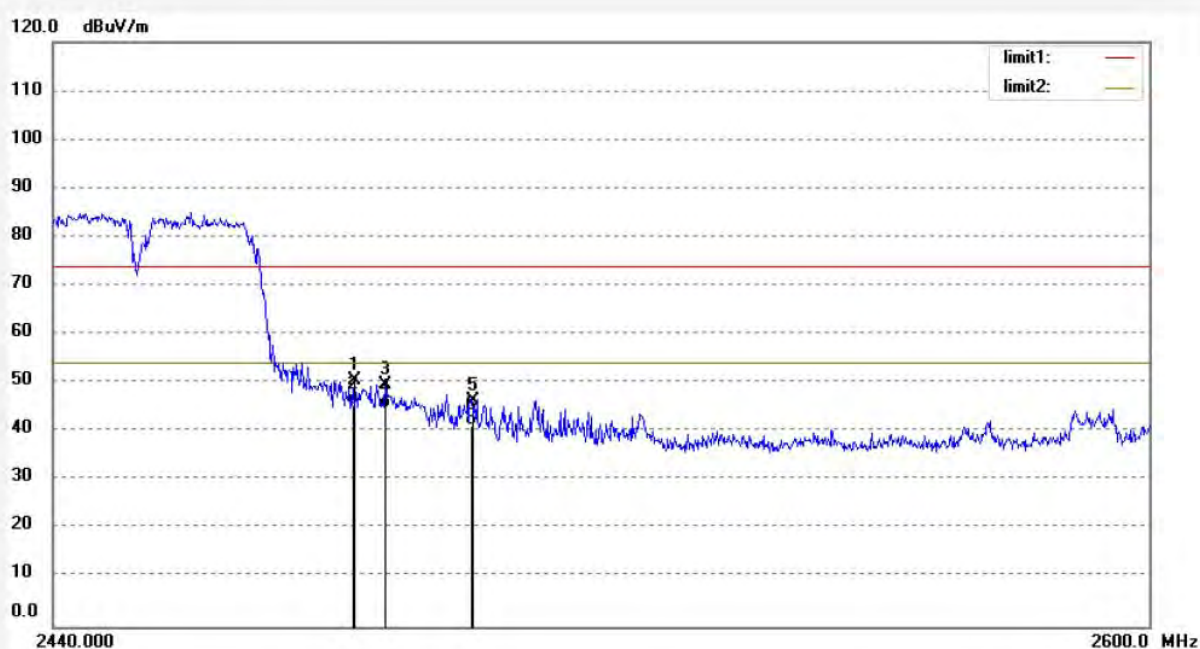
Date: 12/10/18/

Time: 1/28/21

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309

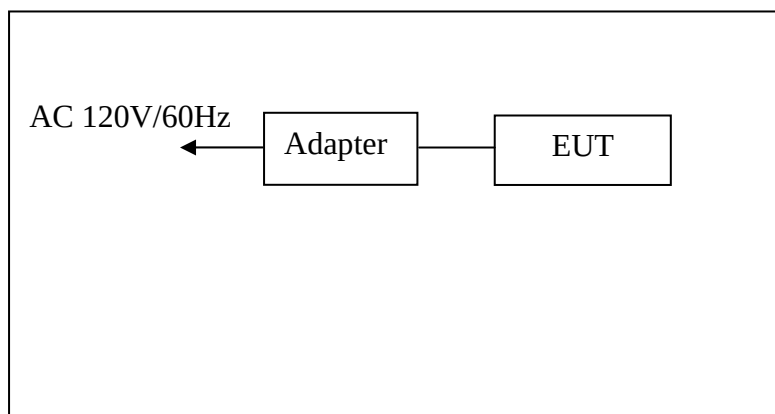


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	57.99	-7.37	50.62	74.00	-23.38	peak			
2	2483.500	52.85	-7.37	45.48	54.00	-8.52	AVG			
3	2487.507	57.17	-7.38	49.79	74.00	-24.21	peak			
4	2487.507	52.16	-7.38	44.78	54.00	-9.22	AVG			
5	2500.000	53.64	-7.40	46.24	74.00	-27.76	peak			
6	2500.000	48.59	-7.40	41.19	54.00	-12.81	AVG			

9. RADIATED SPURIOUS EMISSION TEST

9.1. Block Diagram of Test Setup

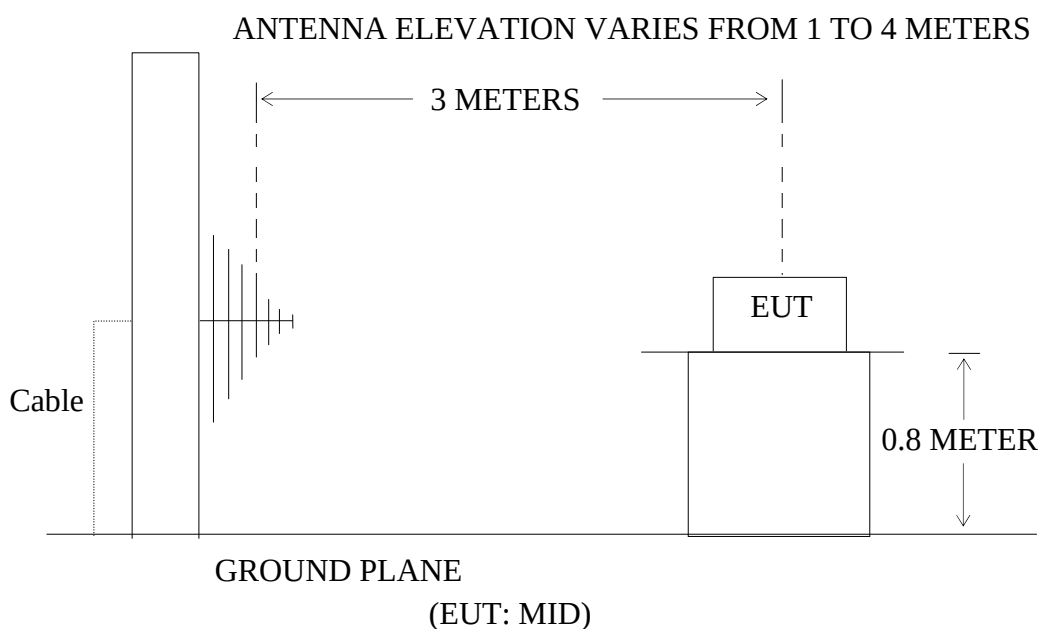
9.1.1. Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

(EUT: MID)

9.1.2. Semi-Anechoic Chamber Test Setup Diagram



9.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3.Restricted bands of operation

9.3.1.FCC Part 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	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

9.4.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4.1.MID (EUT)

Model Number : SP712
 Serial Number : N/A
 Manufacturer : NEXGEN GLOBAL LIMITED

9.5.Operating Condition of EUT

9.5.1.Setup the EUT and simulator as shown as Section 9.1.

9.5.2.Turn on the power of all equipment.

9.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

9.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The worst-case data rate for this channel to be 1Mbps for 802.11b mode and 6Mbps for 802.11g mode and 150Mbps for 802.11n mode, based on previous with 802.11 WLAN product design architectures.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9kHz to 25GHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

9.7.The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
602.9287	13.44	25.59	39.03	46.00	-6.97	Vertical
862.8015	11.04	28.64	39.68	46.00	-6.32	Vertical
945.3336	11.39	29.46	40.85	46.00	-5.15	Vertical
421.3287	15.80	23.16	38.96	46.00	-7.04	Horizontal
815.6352	12.59	28.02	40.61	46.00	-5.39	Horizontal
935.4214	11.01	29.26	40.27	46.00	-5.73	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	802.11b Channel Middle 2437MHz	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
605.0509	16.02	25.64	41.66	46.00	-4.34	Vertical
716.2038	13.40	27.05	40.45	46.00	-5.55	Vertical
887.3978	11.71	28.77	40.48	46.00	-5.52	Vertical
644.5531	13.43	26.08	39.51	46.00	-6.49	Horizontal
747.0467	13.62	27.57	41.19	46.00	-4.81	Horizontal
850.7603	11.67	28.36	40.03	46.00	-5.97	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
565.9776	15.02	25.27	40.29	46.00	-5.71	Vertical
644.5531	14.28	26.08	40.36	46.00	-5.64	Vertical
850.7603	12.11	28.36	40.47	46.00	-5.53	Vertical
644.5531	14.60	26.08	40.68	46.00	-5.32	Horizontal
747.0467	12.50	27.57	40.07	46.00	5.93	Horizontal
850.7603	12.28	28.36	40.64	46.00	-5.36	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
565.9776	14.29	25.27	39.56	46.00	-6.44	Vertical
605.0509	14.25	25.64	39.89	46.00	-6.11	Vertical
686.6342	12.79	26.37	39.16	46.00	-6.84	Vertical
421.3287	15.17	23.16	38.33	46.00	-7.67	Horizontal
815.6352	12.54	28.02	40.56	46.00	-5.44	Horizontal
887.3978	11.59	28.77	40.36	46.00	-5.64	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test: October 18, 2012

Temperature: 25°C

EUT: MID

Humidity: 50%

Model No.: SP712

Power Supply: AC 120V/60HZ

Test Mode: 802.11g Channel Middle 2437MHz

Test Engineer: Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
498.7303	16.33	23.98	40.31	46.00	-5.69	Vertical
565.9776	15.86	25.27	41.13	46.00	-4.87	Vertical
644.5531	14.95	26.08	41.03	46.00	-4.97	Vertical
389.9874	16.70	21.88	38.58	46.00	-7.42	Horizontal
850.7603	11.78	28.36	40.14	46.00	-5.86	Horizontal
925.6132	11.26	29.16	40.42	46.00	-5.58	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
565.9776	15.66	25.27	40.93	46.00	-5.07	Vertical
686.6342	14.60	26.37	40.97	46.00	-5.03	Vertical
850.7603	12.50	28.36	40.86	46.00	-5.14	Vertical
747.0467	12.99	27.57	40.56	46.00	-5.44	Horizontal
779.2179	13.02	27.83	40.85	46.00	-5.15	Horizontal
850.7603	13.03	28.36	41.39	46.00	-4.61	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	802.11n Channel Low 2412MHz (20MHz)	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
498.7302	13.56	23.98	37.54	46.00	-8.46	Vertical
605.0507	13.75	25.64	39.39	46.00	-6.61	Vertical
815.6352	9.46	28.02	37.48	46.00	-8.52	Vertical
421.3287	14.17	23.16	37.33	46.00	-8.67	Horizontal
815.6352	12.04	28.02	40.06	46.00	-5.94	Horizontal
887.3976	12.59	28.77	41.36	46.00	-4.64	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	802.11n Channel Middle 2437MHz (20MHz)	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
498.7303	14.85	23.98	38.83	46.00	-7.17	Vertical
644.5531	14.63	26.08	40.71	46.00	-5.29	Vertical
850.7603	12.92	28.36	41.28	46.00	-4.72	Vertical
421.3287	16.41	23.16	39.57	46.00	-6.43	Horizontal
468.1650	14.81	23.55	38.36	46.00	-7.64	Horizontal
815.6352	10.67	28.02	38.69	46.00	-7.31	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	802.11n Channel High 2462MHz (20MHz)	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
565.9776	14.87	25.27	40.14	46.00	-5.86	Vertical
686.6342	13.67	26.37	40.04	46.00	-5.96	Vertical
850.7603	12.19	28.36	40.55	46.00	-5.45	Vertical
644.5531	14.93	26.08	41.01	46.00	-4.99	Horizontal
686.6342	14.47	26.37	40.84	46.00	-5.16	Horizontal
850.7603	12.27	28.36	40.63	46.00	-5.37	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	802.11n Channel Low 2422MHz (40MHz)	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
644.5531	11.76	26.08	37.84	46.00	-8.16	Vertical
779.2179	11.58	27.83	39.41	46.00	-6.59	Vertical
850.7603	11.27	28.36	39.63	46.00	-6.37	Vertical
602.9287	12.42	25.59	38.01	46.00	-7.99	Horizontal
644.5531	13.94	26.08	40.02	46.00	-5.98	Horizontal
850.7603	11.81	28.36	40.17	46.00	-5.83	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	802.11n Channel Middle 2437MHz (40MHz)	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
565.9776	14.43	25.27	39.70	46.00	-6.30	Vertical
747.0467	10.72	27.57	38.29	46.00	-7.71	Vertical
925.6132	9.53	29.16	38.69	46.00	-7.31	Vertical
605.0509	13.42	25.64	39.06	46.00	-6.94	Horizontal
644.5531	14.83	26.08	40.91	46.00	-5.09	Horizontal
850.7603	12.04	28.36	40.40	46.00	-5.60	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	October 18, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	SP712	Power Supply:	AC 120V/60HZ
Test Mode:	802.11n Channel High 2452MHz (40MHz)	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
565.9776	12.78	25.27	38.05	46.00	-7.95	Vertical
605.0509	12.69	25.64	38.33	46.00	-7.67	Vertical
850.7603	12.46	28.36	40.82	46.00	-5.18	Vertical
644.5531	13.90	26.08	39.98	46.00	-6.02	Horizontal
850.7603	12.42	28.36	40.78	46.00	-5.22	Horizontal
887.3978	11.53	28.77	40.30	46.00	-5.70	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1925

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: MID

Mode: TX Channel 1(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

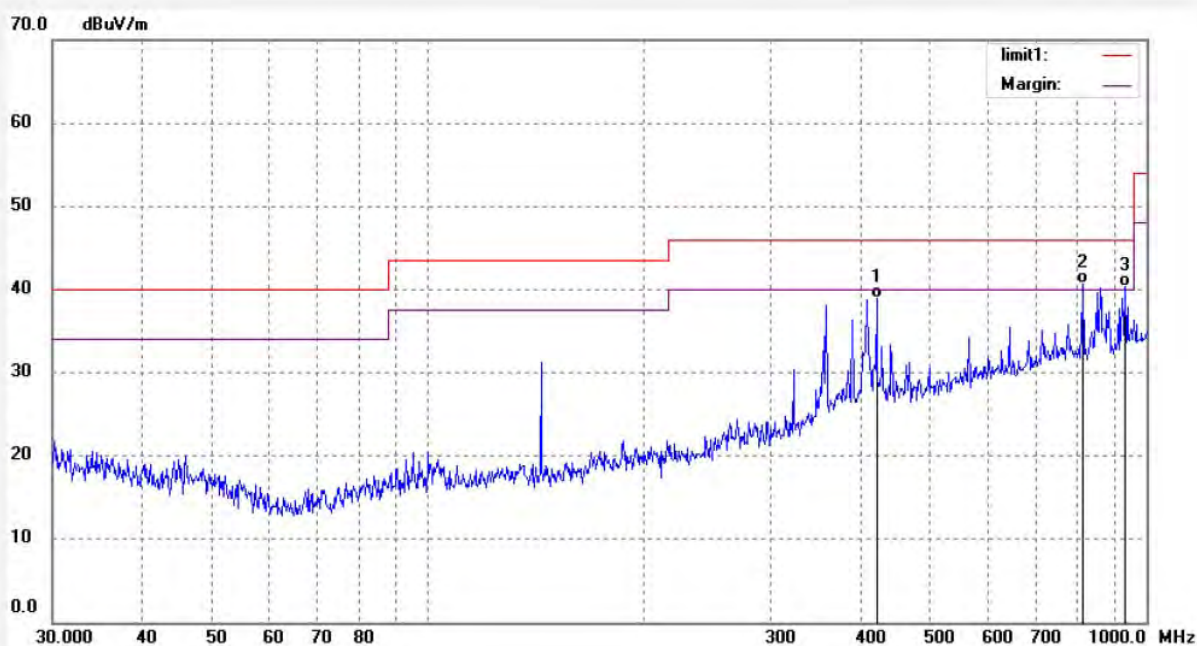
Date: 12/10/18/

Time: 10/26/18

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	421.3287	15.80	23.16	38.96	46.00	-7.04	QP			
2	815.6352	12.59	28.02	40.61	46.00	-5.39	QP			
3	935.4214	11.01	29.26	40.27	46.00	-5.73	QP			



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Fax:+86-0755-26503396

Job No.: Bob #1924

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: MID

Mode: TX Channel 1(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

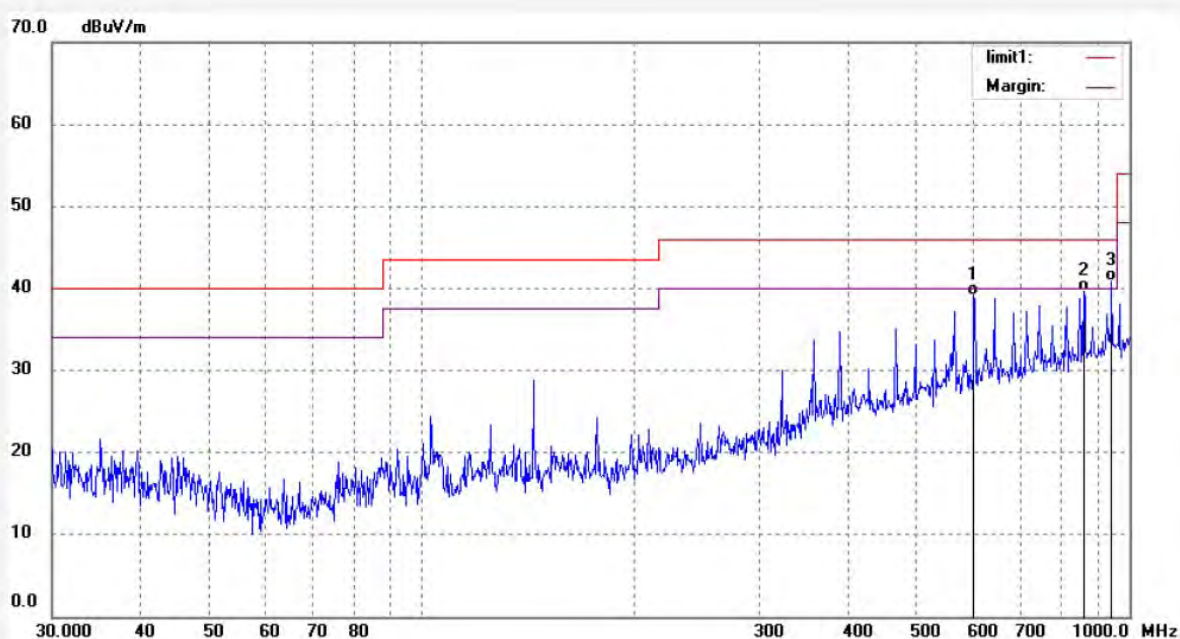
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Time: 10/23/36

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	602.9287	13.44	25.59	39.03	46.00	-6.97	QP			
2	862.8015	11.04	28.64	39.68	46.00	-6.32	QP			
3	945.3336	11.39	29.46	40.85	46.00	-5.15	QP			


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Job No.: Bob #2509

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 1(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

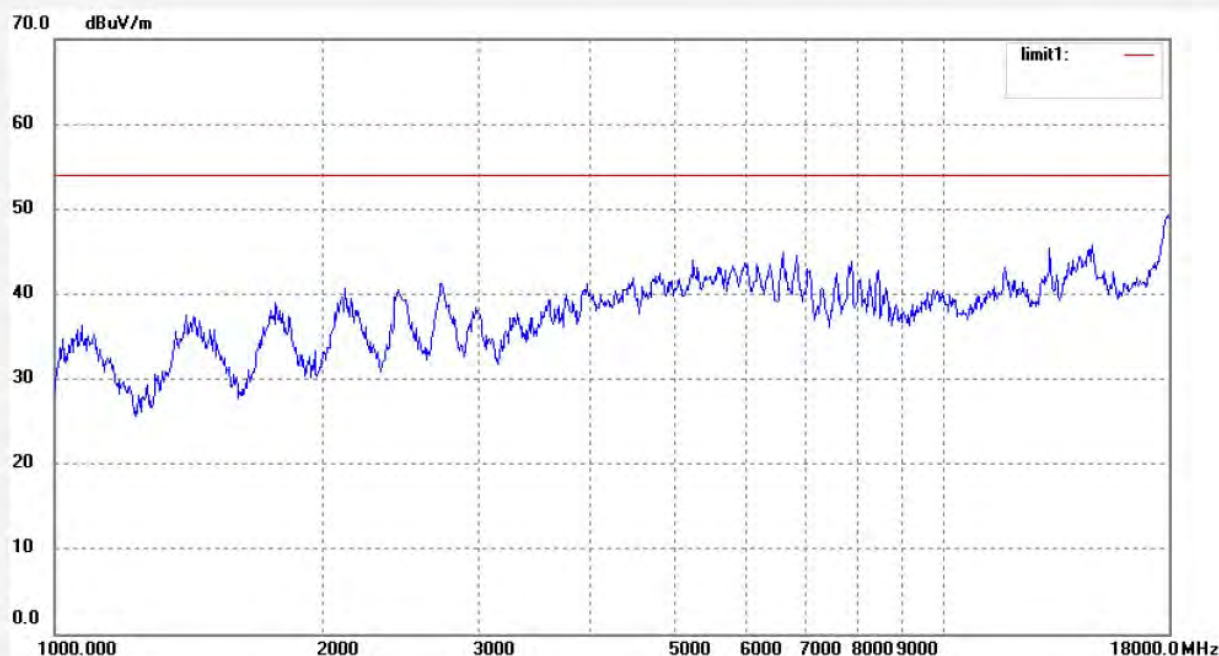
Date: 12/10/18/

Time: 10/02/57

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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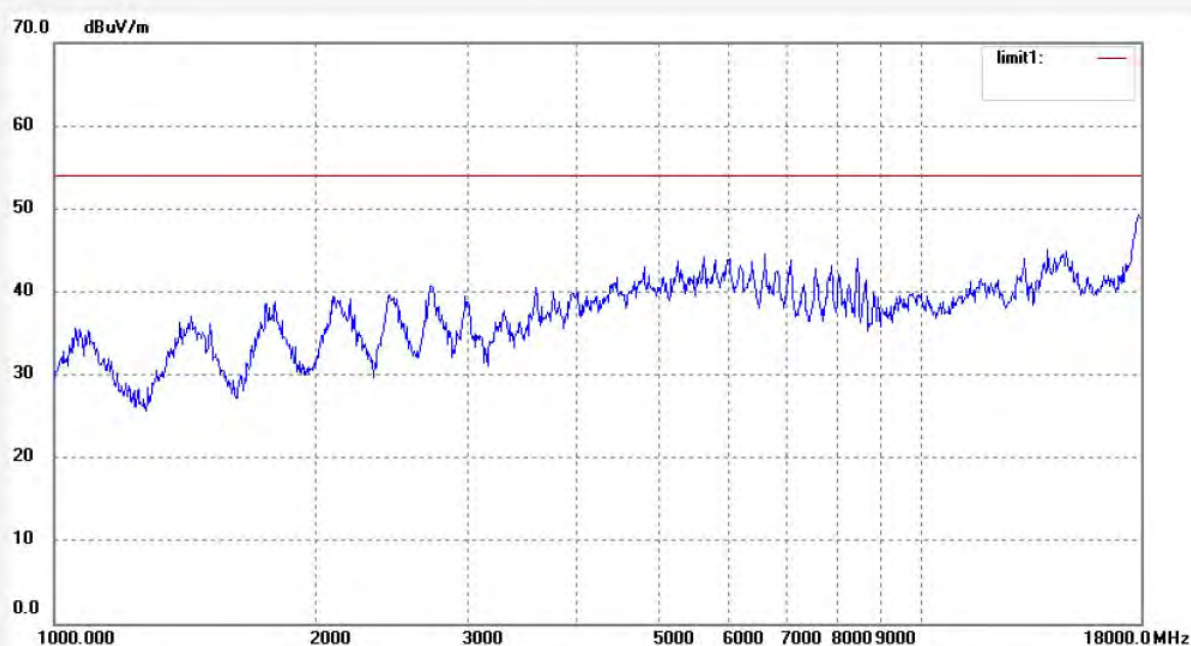
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #2510
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: MID
Mode: TX Channel 1(802.11b)
Model: SP712
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/10/18/
Time: 10/06/21
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber

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Fax:+86-0755-26503396

Job No.: Bob #2534

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 1(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

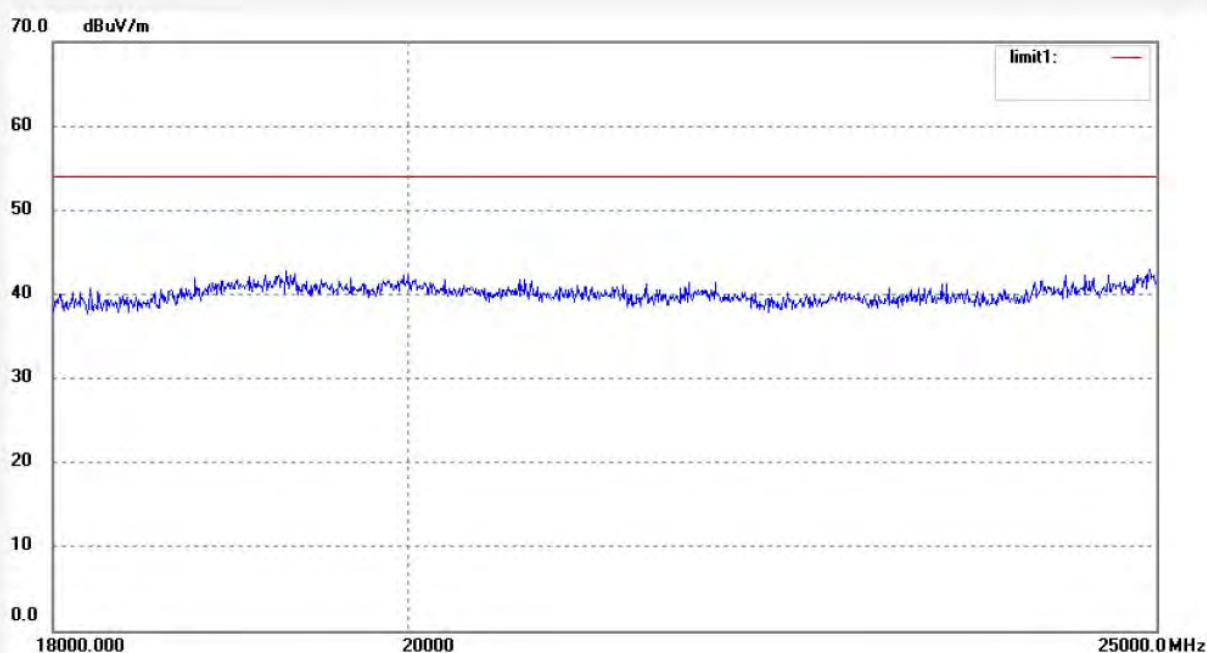
Date: 12/10/18/

Time: 11/40/47

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2533

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 1(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

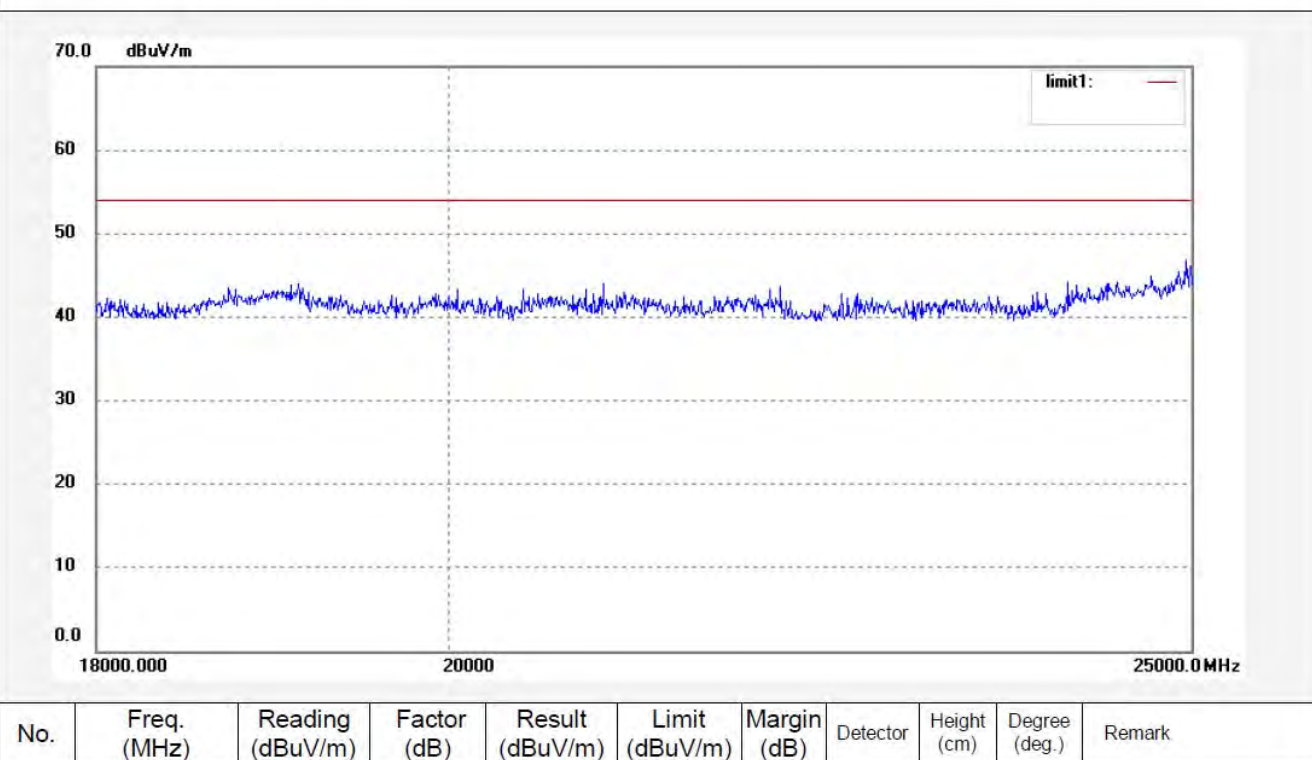
Date: 12/10/18/

Time: 11/35/40

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309





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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1934

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: MID

Mode: TX Channel 6(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

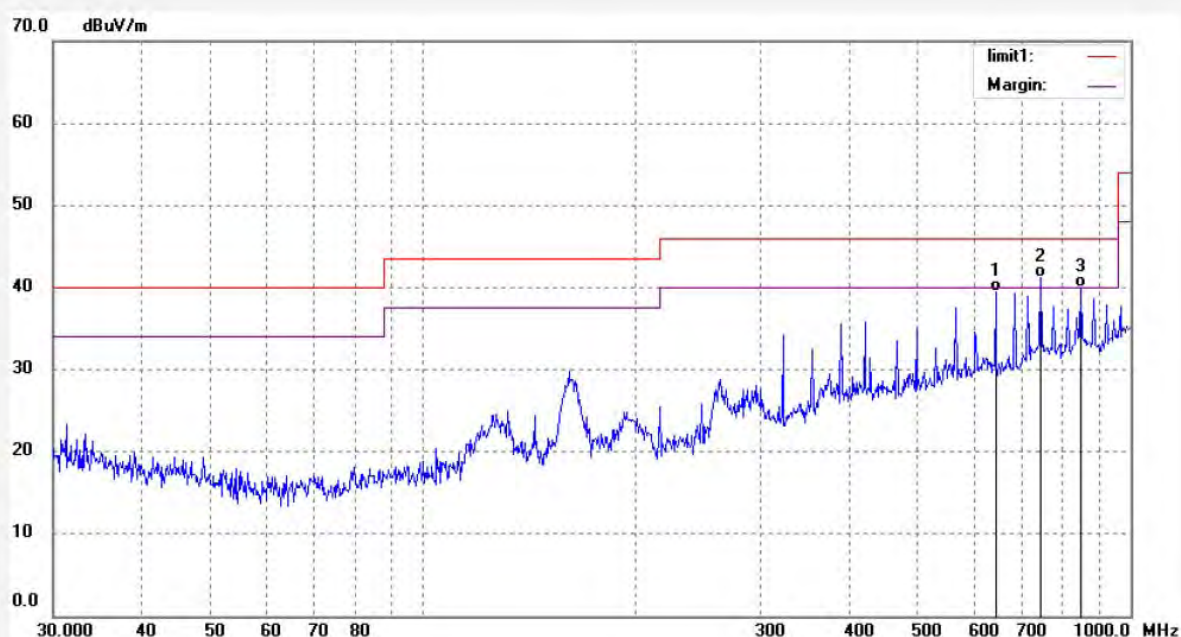
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Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	644.5531	13.43	26.08	39.51	46.00	-6.49	QP			
2	747.0467	13.62	27.57	41.19	46.00	-4.81	QP			
3	850.7603	11.67	28.36	40.03	46.00	-5.97	QP			



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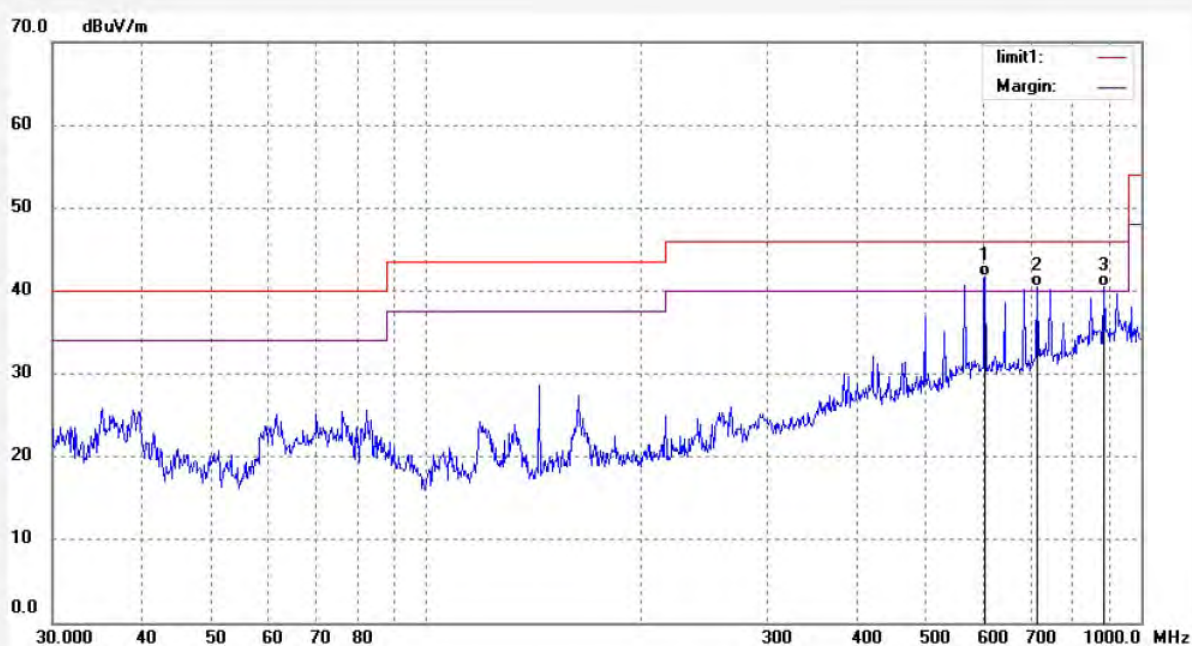
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1935
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 51 %
EUT: MID
Mode: TX Channel 6(802.11b)
Model: SP712
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/10/18/
Time: 10/55/23
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	605.0509	16.02	25.64	41.66	46.00	-4.34	QP			
2	716.2038	13.40	27.05	40.45	46.00	-5.55	QP			
3	887.3978	11.71	28.77	40.48	46.00	-5.52	QP			



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Job No.: Bob #2512

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 6(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

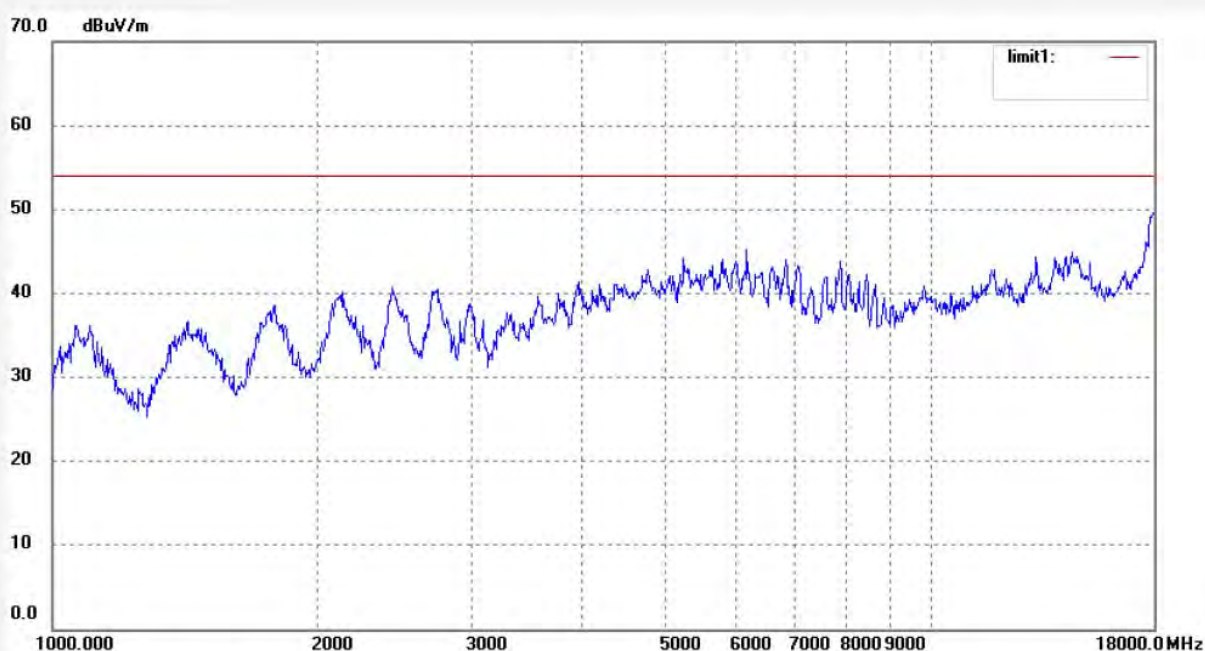
Date: 12/10/18/

Time: 10/14/21

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: Bob #2511

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 6(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

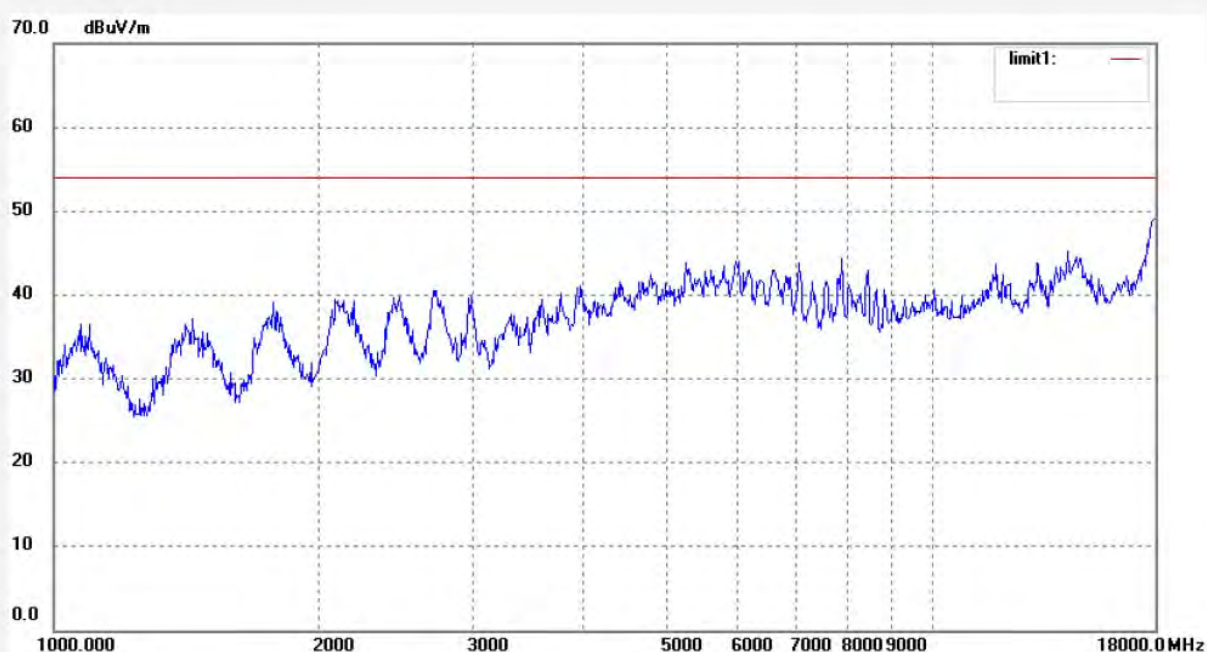
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Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2535

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 6(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

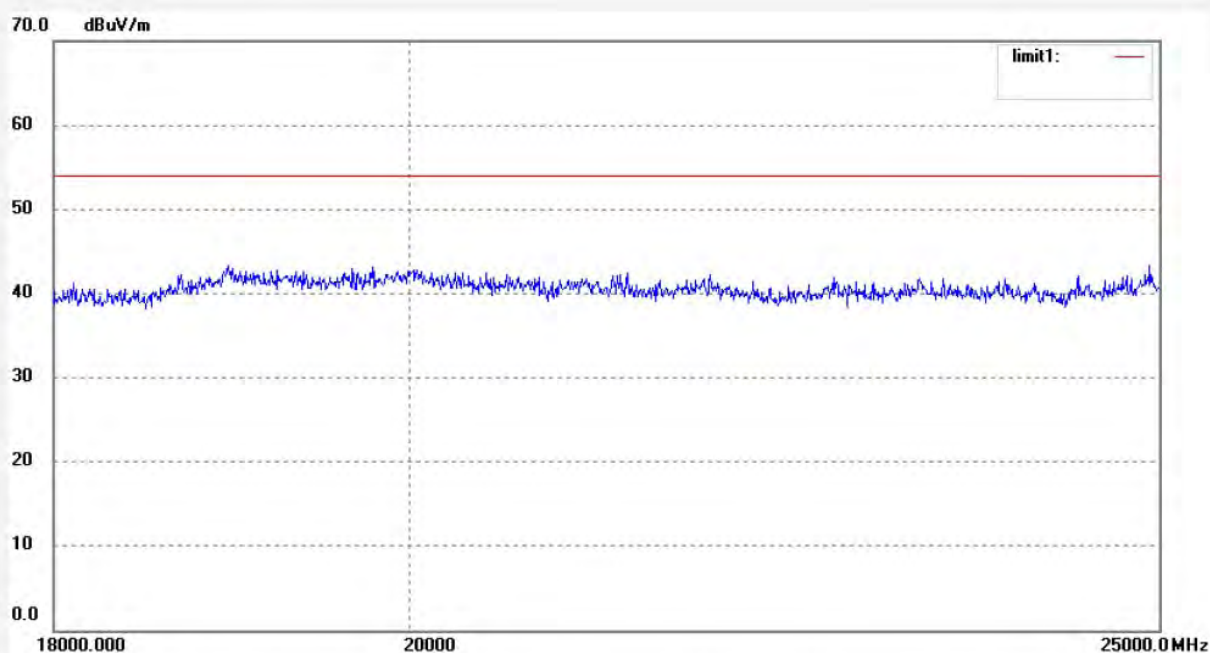
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Time: 11/43/05

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2536

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 6(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

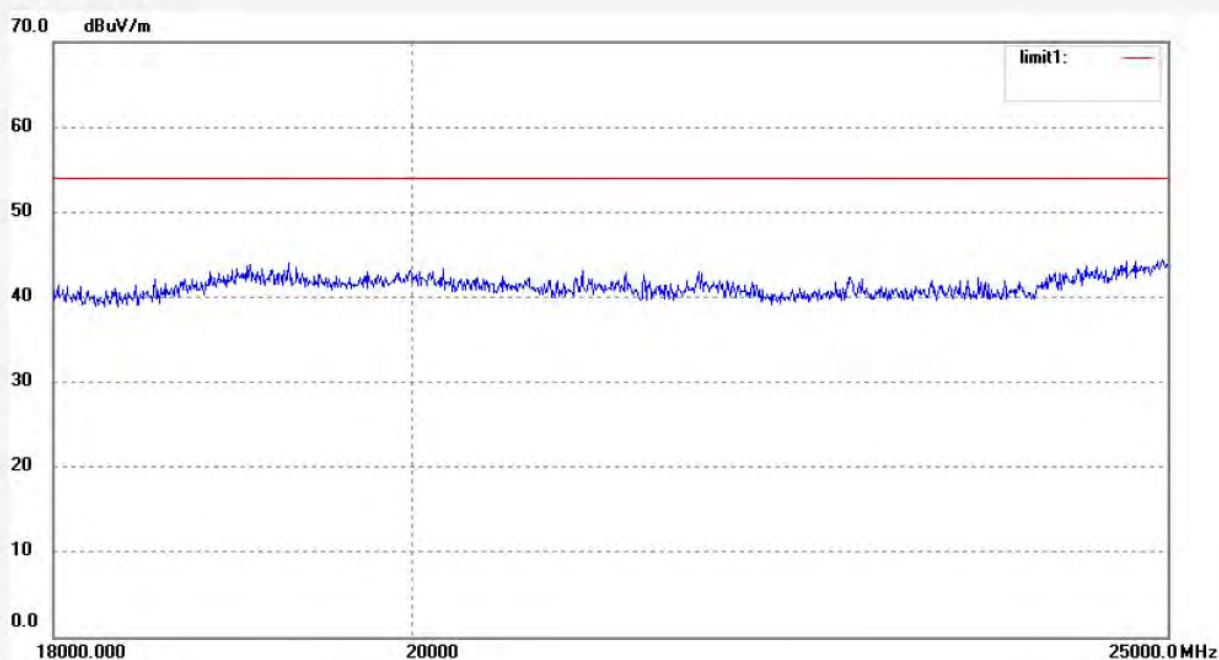
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Time: 11/48/21

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1937

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: MID

Mode: TX Channel 11(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

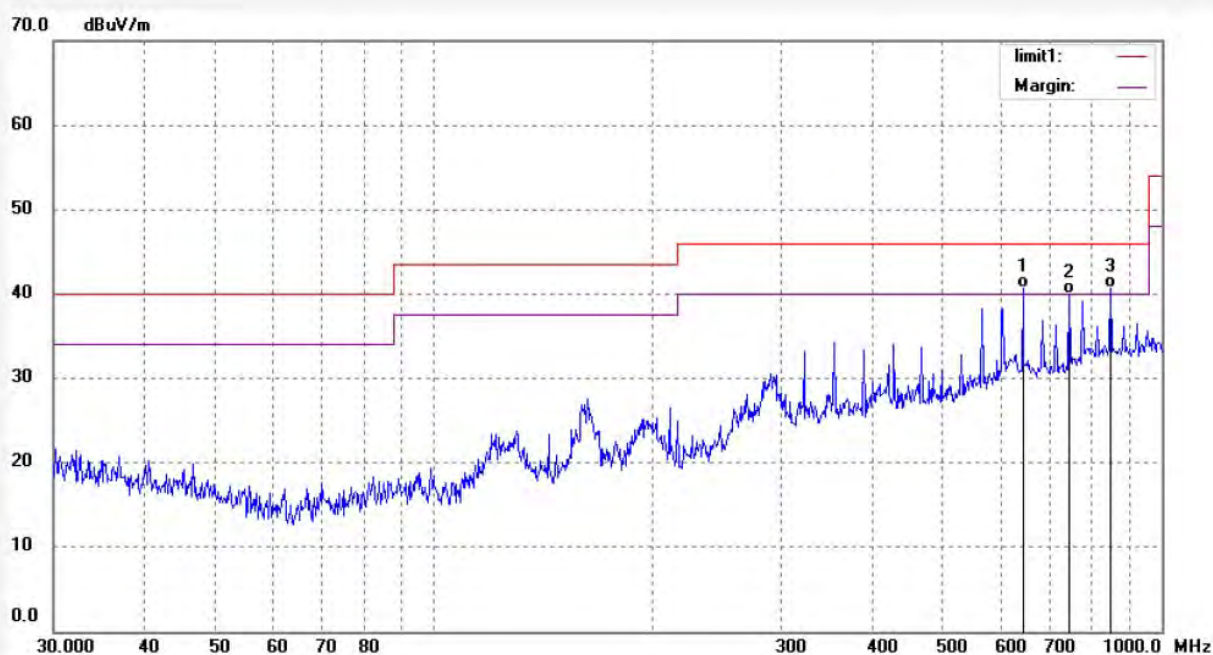
Date: 12/10/18/

Time: 11/02/39

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	644.5531	14.60	26.08	40.68	46.00	-5.32	QP			
2	747.0467	12.50	27.57	40.07	46.00	-5.93	QP			
3	850.7603	12.28	28.36	40.64	46.00	-5.36	QP			


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 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1936

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: MID

Mode: TX Channel 11(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

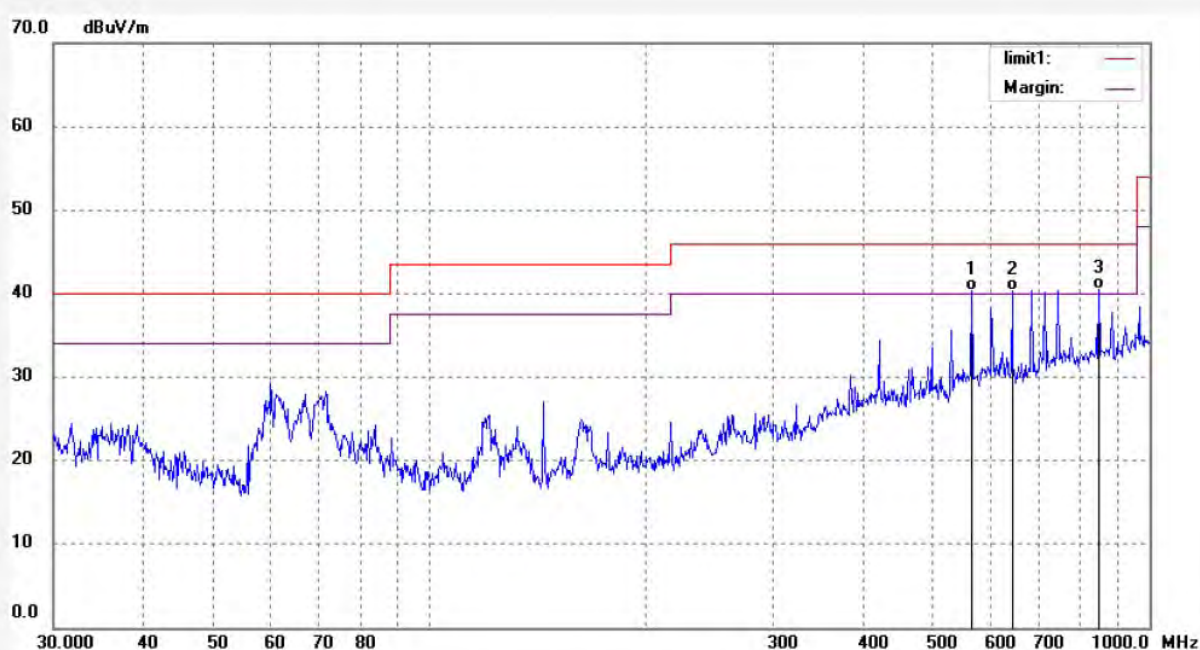
Date: 12/10/18/

Time: 10/58/06

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	565.9776	15.02	25.27	40.29	46.00	-5.71	QP			
2	644.5531	14.28	26.08	40.36	46.00	-5.64	QP			
3	850.7603	12.11	28.36	40.47	46.00	-5.53	QP			


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2513

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 11(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

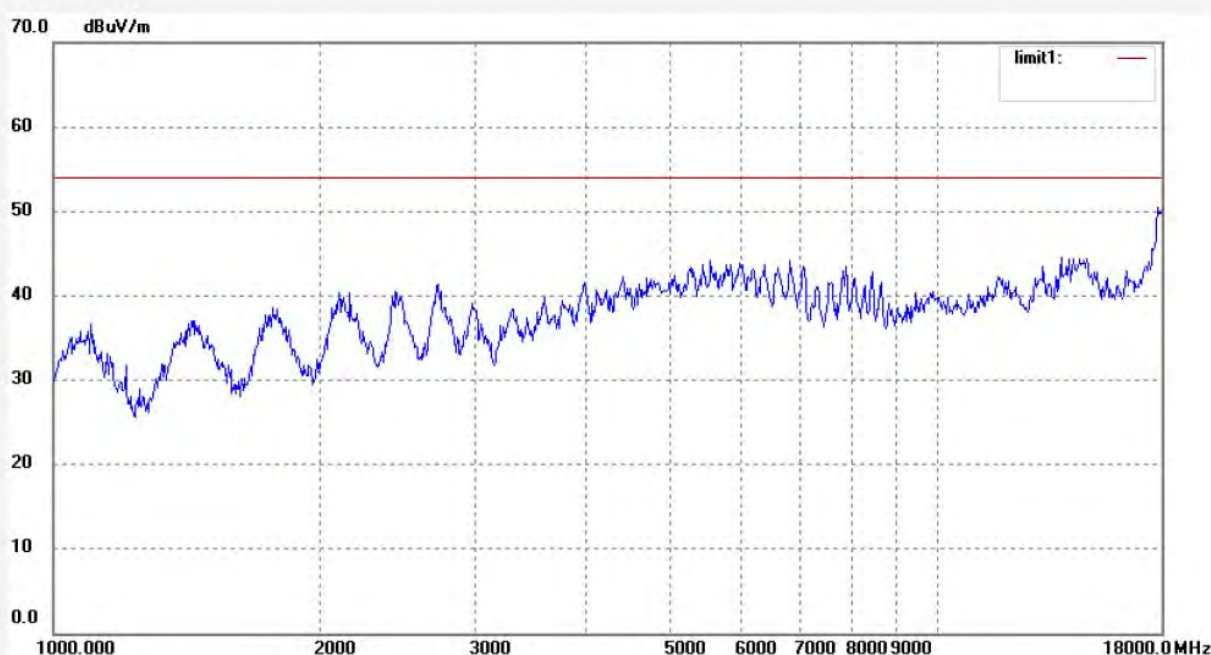
Date: 12/10/18/

Time: 10/18/09

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2514

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 11(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

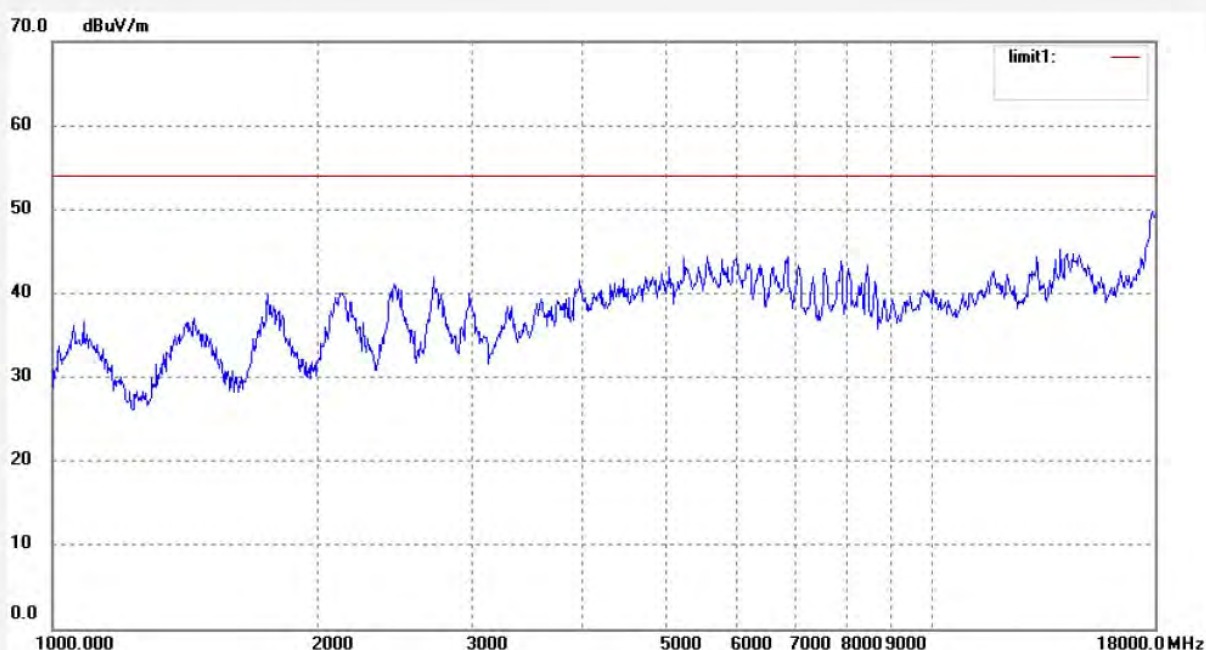
Date: 12/10/18/

Time: 10/22/55

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2538

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 11(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

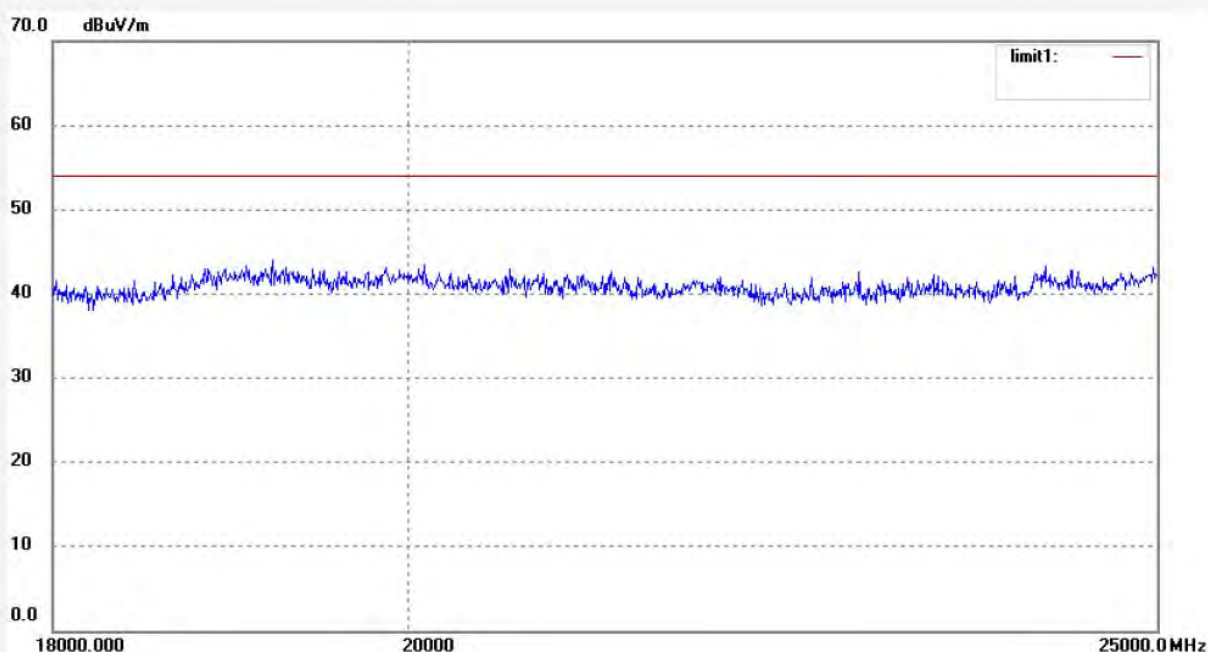
Date: 12/10/18/

Time: 11/56/00

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2537

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 11(802.11b)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

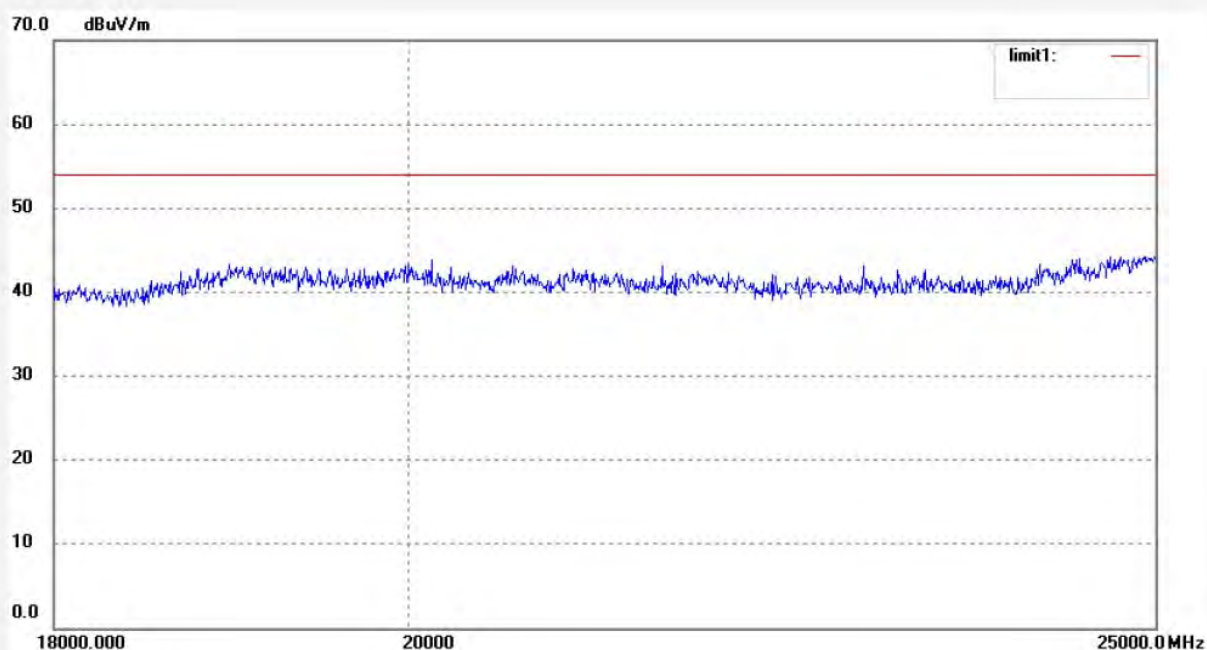
Date: 12/10/18/

Time: 11/53/37

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1926

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: MID

Mode: TX Channel 1(802.11g)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

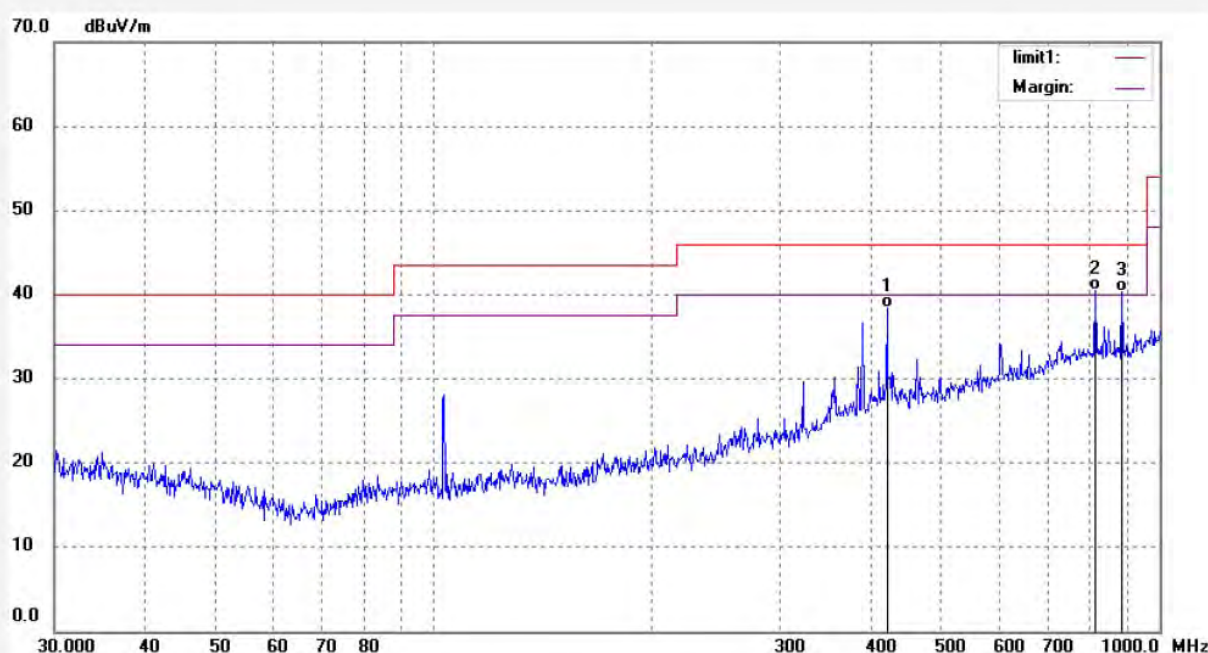
Date: 12/10/18/

Time: 10/29/35

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	421.3287	15.17	23.16	38.33	46.00	-7.67	QP			
2	815.6352	12.54	28.02	40.56	46.00	-5.44	QP			
3	887.3978	11.59	28.77	40.36	46.00	-5.64	QP			



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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1927

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: MID

Mode: TX Channel 1(802.11g)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

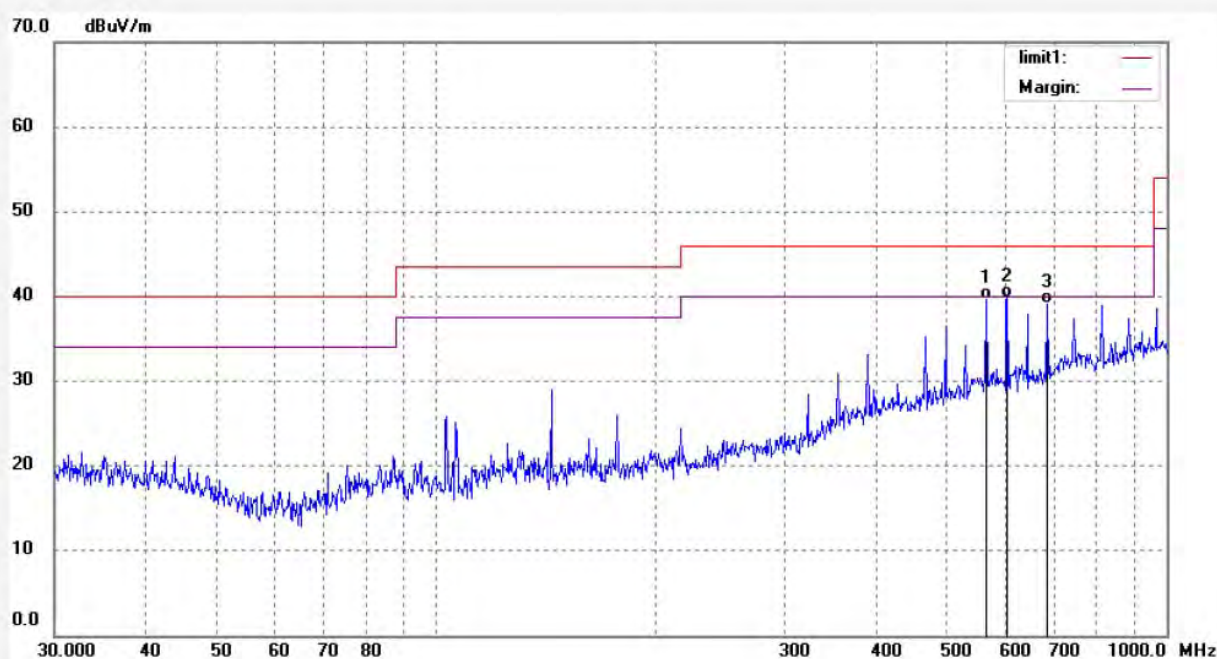
Date: 12/10/18/

Time: 10/32/09

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	565.9776	14.29	25.27	39.56	46.00	-6.44	QP			
2	605.0509	14.25	25.64	39.89	46.00	-6.11	QP			
3	686.6342	12.79	26.37	39.16	46.00	-6.84	QP			


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2516

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 1(802.11g)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

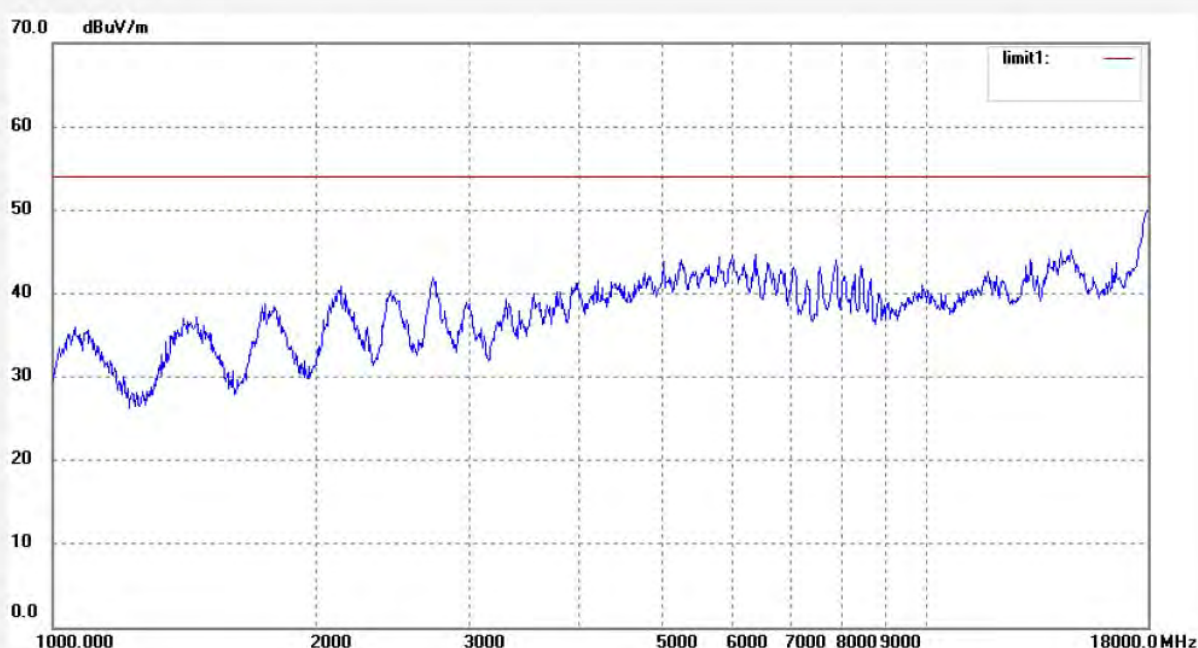
Date: 12/10/18/

Time: 10/27/44

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2515

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 1(802.11g)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

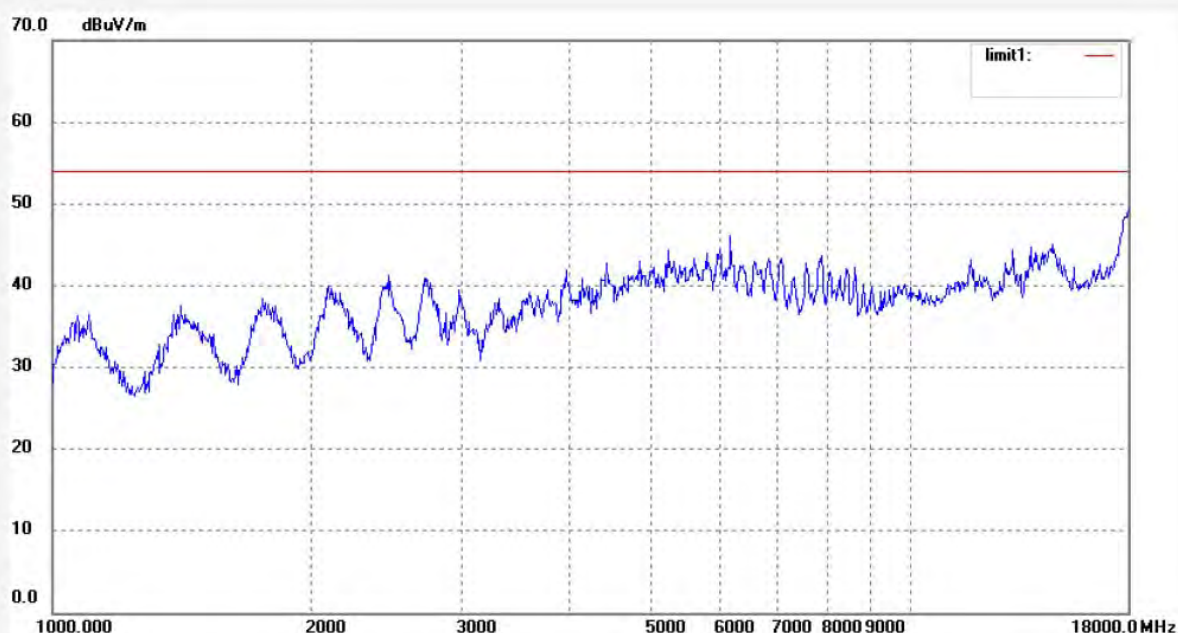
Date: 12/10/18/

Time: 10/25/36

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #2539

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 1(802.11g)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

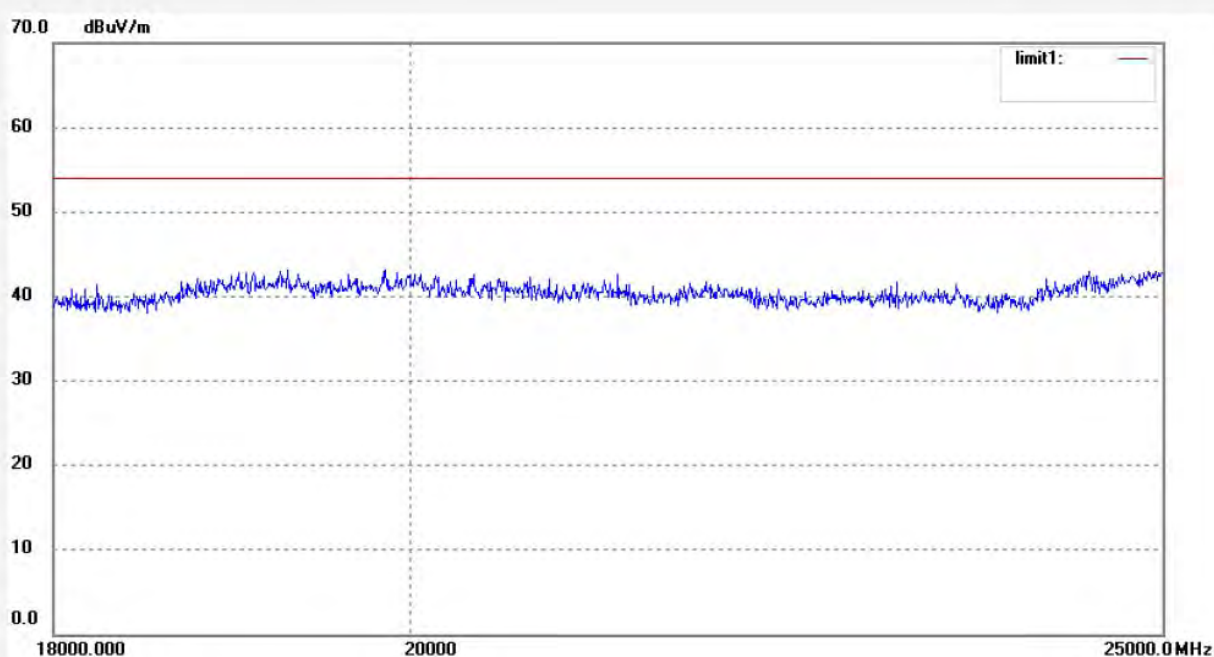
Date: 12/10/18/

Time: 11/59/53

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2540

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 1(802.11g)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

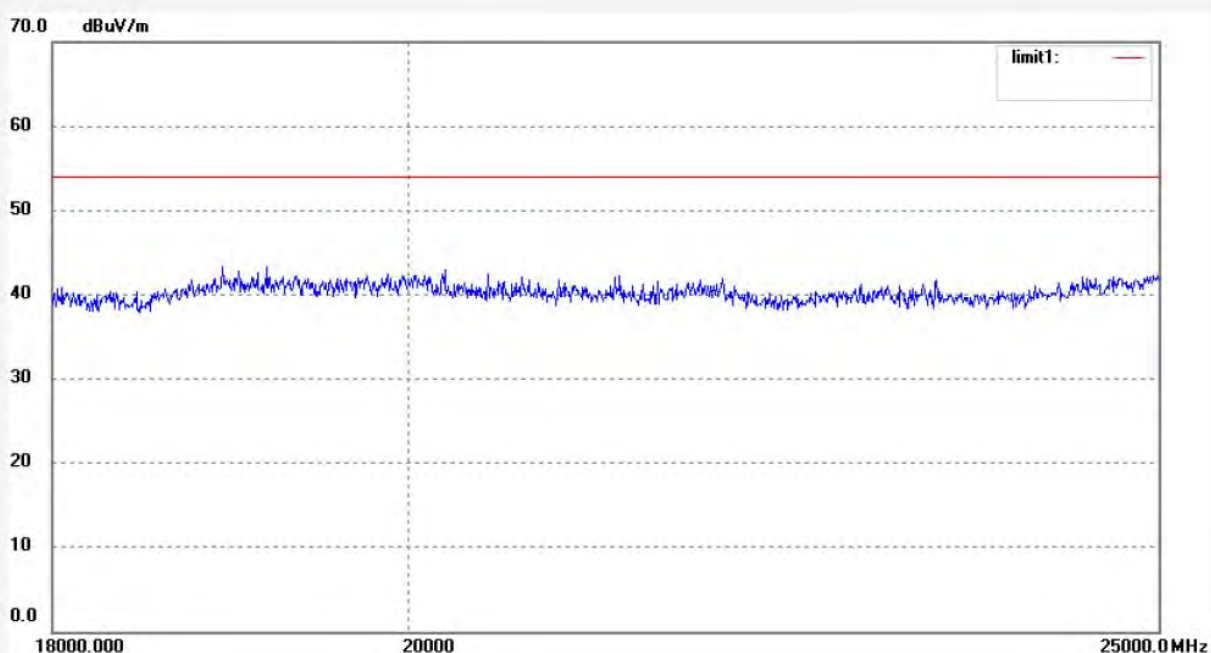
Date: 12/10/18/

Time: 12/04/12

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1933

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: MID

Mode: TX Channel 6(802.11g)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

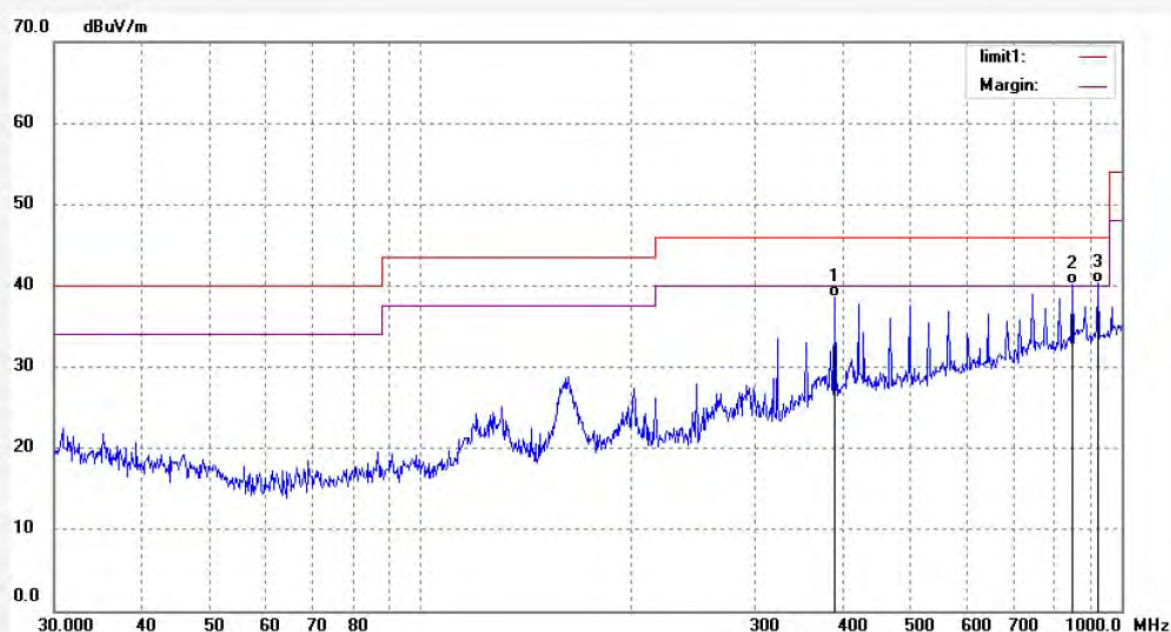
Date: 12/10/18/

Time: 10/50/02

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	389.9874	16.70	21.88	38.58	46.00	-7.42	QP			
2	850.7603	11.78	28.36	40.14	46.00	-5.86	QP			
3	925.6132	11.26	29.16	40.42	46.00	-5.58	QP			



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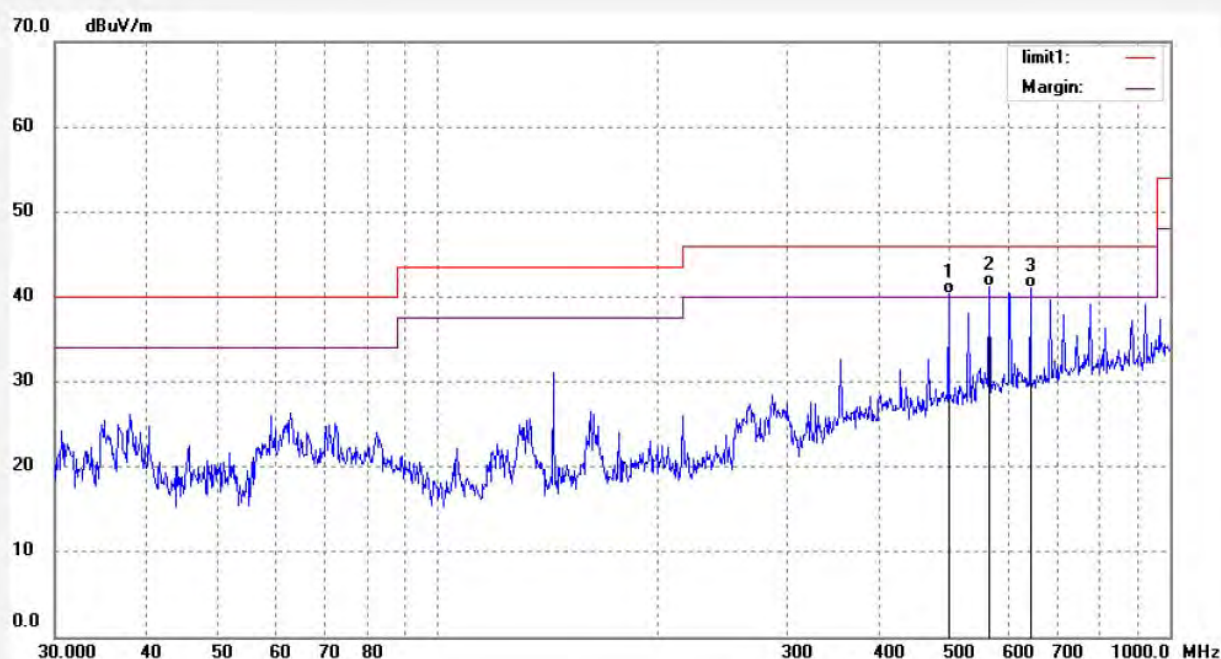
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1932
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 51 %
EUT: MID
Mode: TX Channel 6(802.11g)
Model: SP712
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/10/18/
Time: 10/47/22
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	498.7303	16.33	23.98	40.31	46.00	-5.69	QP			
2	565.9776	15.86	25.27	41.13	46.00	-4.87	QP			
3	644.5531	14.95	26.08	41.03	46.00	-4.97	QP			


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2517

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 6(802.11g)

Model: SP712

Manufacturer: Natural Sound

Polarization: Horizontal

Power Source: AC 120V/60Hz

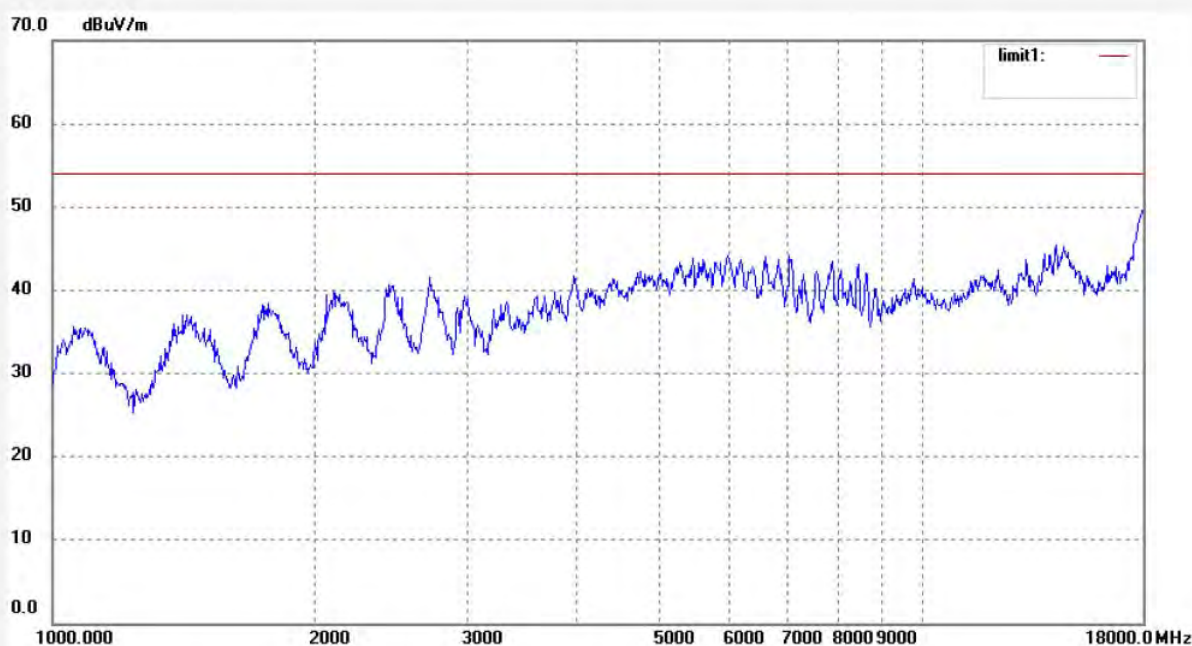
Date: 12/10/18/

Time: 10/31/37

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #2518

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: MID

Mode: TX Channel 6(802.11g)

Model: SP712

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: AC 120V/60Hz

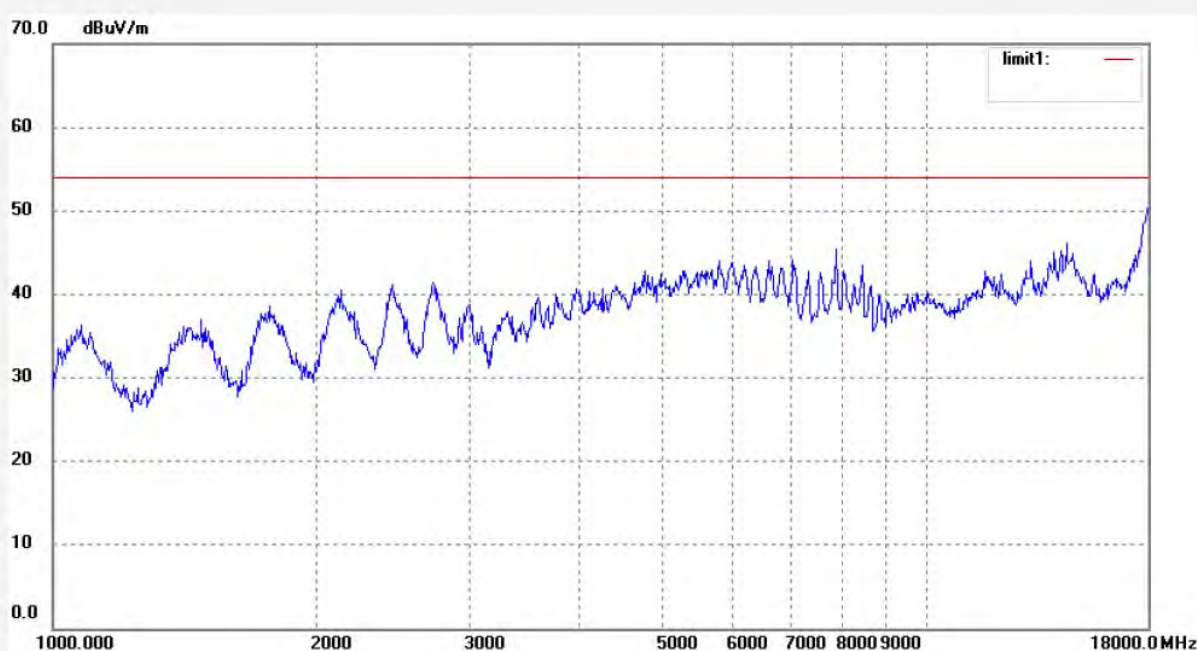
Date: 12/10/18/

Time: 10/35/22

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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