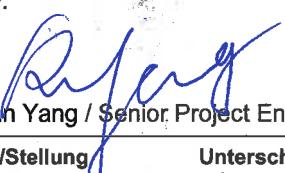


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Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	607268	Auftragsdatum: <i>Order date.:</i>	14.10.2015		
Auftraggeber: <i>Client:</i>	SHENZHEN LIANCHUANG TECHNOLOGY GROUP CO., LTD. Lianchuang Technical Zone, No.21 Bulan Road, Nanwan Street, Longgang district, Shenzhen, P.R.China				
Prüfgegenstand: <i>Test item:</i>	Ceramic Heater				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	DF-HT5338P, EE-8083, EE-8083BK				
Auftrags-Inhalt: <i>Order content:</i>	FCC approval				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109 FCC KDB Publication 447498 v06				
Wareneingangsdatum: <i>Date of receipt:</i>	13.11.2015				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000260550-005				
Prüfzeitraum: <i>Testing period:</i>	13.11.2015 - 11.12.2015				
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by: 	kontrolliert von / reviewed by: 				
21.01.2016	Ryan Yang / Senior Project Engineer	21.01.2016	Sam Lin / Technical Certifier		
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date	Name/Stellung Name/Position	Unterschrift Signature
Sonstiges / Other: FCC ID: 2AG3VGC792129					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(all) = entspricht nicht o.g. Prüfgrundlage(n) Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(all) = failed a.m. test specifications(s) N/A = nicht anwendbar N/T = nicht getestet N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.6 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.7 CONDUCTED EMISSION

RESULT: Pass

5.1.8 RADIATED EMISSION

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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9 LIST OF PHOTOGRAPHS 49

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix A: Test results of Wi-Fi 802.11 b/g/n mode

2 Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen,
518057, P.R. China

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A-2

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

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment
Accurate Technology Co., Ltd.

Radio Spectrum Test				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Spectrum Analyzer	R&S	ESPI3	100396/003	09.01.2016
Spectrum Analyzer	Agilent	E7405A	MY45115511	09.01.2016
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	09.01.2016
Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Test Receiver	R&S	ESCS30	100307	09.01.2016
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	09.01.2016
Pulse Limiter	R&S	ESH3-Z2	100815	09.01.2016
50_ Coaxial Switch	Anritsu Corp	MP59B	6200283933	09.01.2016
Radiated Emission & Spurious Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Spectrum Analyzer	R&S	FSV40	101495	01.01.2016
Test Receiver	R&S	ESCS30	100307	01.01.2016
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	01.01.2016
Loop Antenna	Schwarzbeck	FMZB1516	1516131	01.01.2016
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	01.01.2016
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	01.01.2016
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	01.01.2016
Pre-Amplifier	R&S	CBLU11835 40-01	3791	01.01.2016
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	01.01.2016
RF Coaxial Cable	SUHNER	N-3m	No.8	01.01.2016
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	01.01.2016
RF Coaxial Cable	SUHNER	N-6m	No.10	01.01.2016
RF Coaxial Cable	RESENBERGER	N-12m	No.11	01.01.2016
50_ Coaxial Switch	Anritsu Corp	MP59B	6200283933	09.01.2016

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

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

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

Table 2: Measurement Uncertainty

Item	Extended Uncertainty
Conducted Emission	U=1.94dB, k=2, σ=95%
Radiated Emission (9kHz-30MHz)	U=3.08dB, k=2, σ=95%
Radiated Emission (30-1000MHz)	U=4.42dB, k=2, σ=95%
Radiated Emission (above 1000MHz)	U=4.06dB, k=2, σ=95%
Radio Spectrum	± 0.60 dB
Ambient Temperature	25 °C
Relative Humidity	56 %
Atmospheric Pressure	101 kPa

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. Test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen, 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Ceramic Heater, which supports Wi-Fi IEEE 802.11 b/g/n wireless technology.

According to the declaration of the applicant, the electrical circuit design, PCB layout, components used and internal structure are identical for DF-HT5338P, EE-8083, EE-8083BK, only the model No. and appearance are different.

Refer to User Manual and Circuit Diagram for further details.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Ceramic Heater
Type Designation	DF-HT5338P, EE-8083, EE-8083BK
FCC ID	2AG3VGC792129
Operating Frequency	802.11b/g/n(HT20): 2412 MHz - 2462 MHz 802.11n(HT40): 2422 MHz - 2452 MHz
Operating Temperature Range	-40 °C ~ +85 °C
Operating Voltage	AC 120/60Hz via AC/DC adapter
Type of Modulation	802.11b: DSSS(CCK/DQPSK/DBPSK) 802.11g/n: OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: MCS0 ~ MCS7 Mbp
Channel Number	802.11b/g/n(HT20): 11 channels 802.11n(HT40): 9 channels
Channel Separation	5 MHz
Antenna Type	IPEX Antenna
Antenna Gain	2.00 dBi

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Table 4: RF Channel and Frequency of Wi-Fi 802.11

RF Channel	Frequency (MHz)	RF 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	/	/

Remark:

1. Test frequencies are lowest channel: 2412 MHz, middle channel: 2437 MHz and highest channel: 2462 MHz for 802.11b/g/n(HT20)
2. Test frequencies are lowest channel: 2422 MHz, middle channel: 2437 MHz and highest channel: 2452 MHz for 802.11n(HT40)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wi-Fi transmitting mode (2.4 GHz)
 - 1. Transmitting
 - a. Low Channel
 - b. Middle Channel
 - c. High Channel
 - 2. Receiving
- B. On, Wi-Fi connecting mode
- C. On, Heating mode
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- FCC/IC Label and Location
- Photo Document
- Bill of Material
- Circuit Diagram
- Operation Description
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014

According to clause 3.1, all tests were performed on model DF-HT5338P in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Mobile phone	HuaWei	P7-L00	7NZMYN151S027984	N/A

4.4 Countermeasures to Achieve EMC Compliance

Additional countermeasures to the submitted test sample(s) for Radiated Emission were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

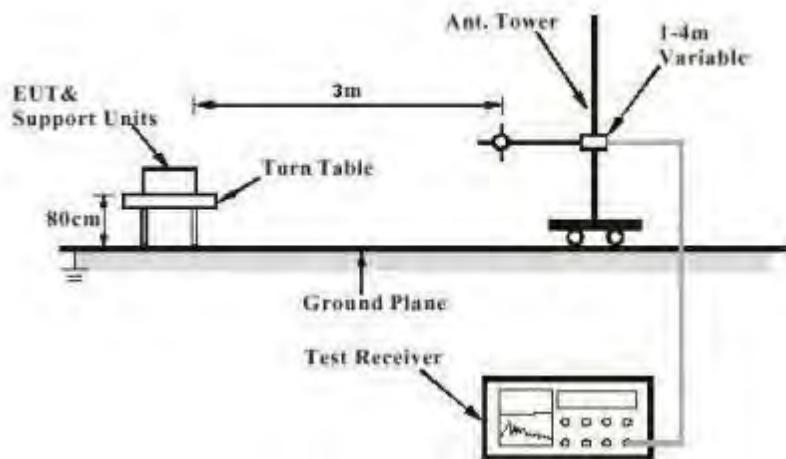
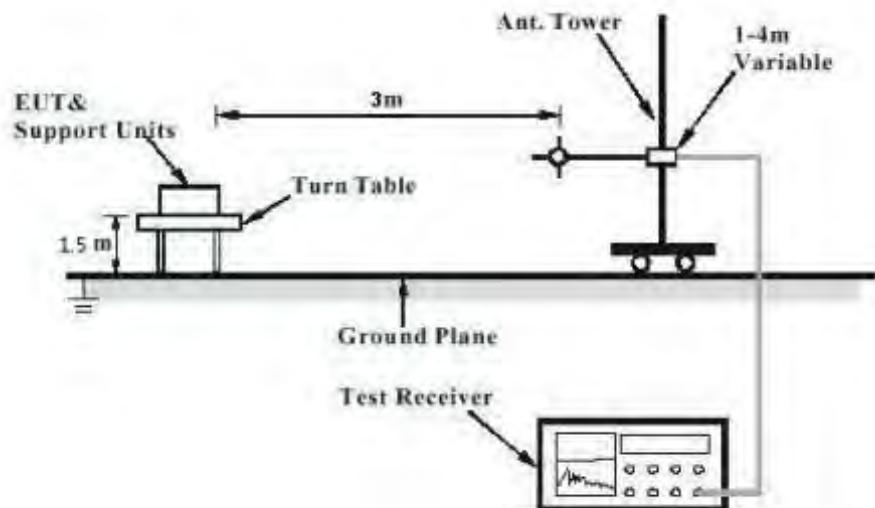
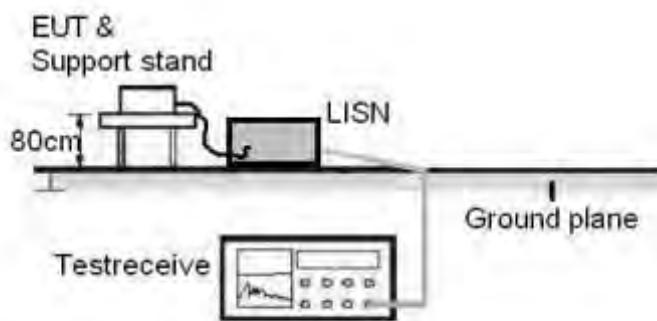
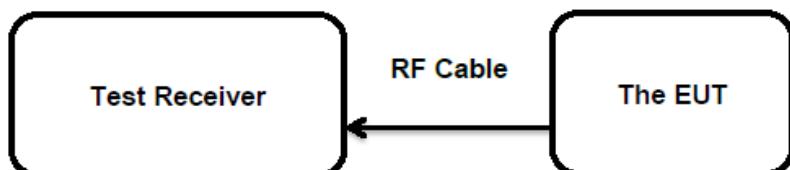


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



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Page 12 of 49**Diagram of Measurement Configuration for Mains Conduction Measurement****Diagram of Measurement Configuration for Conducted Transmitter Measurement**

5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 2.00 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.247(b)(3)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 1 Watt
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	12.12.2015
Input voltage	:	AC 120/60Hz via AC/DC adapter
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 6: Test Result of Maximum Peak Conducted Output Power

Test Mode	Data Rate	Frequency (MHz)	Measured Power		Limit
			dBm	W	
802.11b	1 Mbps	2412	14.70	0.02951	< 1W(30dBm)
		2437	15.10	0.03236	
		2462	15.80	0.03802	
802.11g	6 Mbps	2412	12.30	0.01698	< 1W(30dBm)
		2437	12.70	0.01862	
		2462	13.70	0.02344	
802.11n (HT20)	MCS0 Mbps	2412	12.10	0.01622	< 1W(30dBm)
		2437	12.60	0.01820	
		2462	13.50	0.02239	
802.11n (HT40)	MCS0 Mbps	2422	12.10	0.01622	< 1W(30dBm)
		2437	12.40	0.01738	
		2452	13.00	0.01995	
Maximum Measured Value			15.80	0.03802	

Note: The cable loss is taken into account in results.

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5.1.3 Conducted Power Spectral Density

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.247(e)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 8 dBm / 3kHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	12.12.2015
Input voltage	:	AC 120/60Hz via AC/DC adapter
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 7: Test Result of Power Spectral Density

Test Mode	Data Rate	Frequency (MHz)	Measured Peak Power Spectral Density (dBm/3KHz)	Limit (dBm/3kHz)
802.11b	1 Mbps	2412	-6.12	< 8.0
		2437	-6.85	
		2462	-5.90	
802.11g	6 Mbps	2412	-9.74	< 8.0
		2437	-10.62	
		2462	-11.73	
802.11n (HT20)	MCS0 Mbps	2412	-11.09	< 8.0
		2437	-10.81	
		2462	-9.70	
802.11n (HT40)	MCS0 Mbps	2422	-14.73	< 8.0
		2437	-13.82	
		2452	-14.06	
Maximum Measured Value			-5.90	

Note: The cable loss is taken into account in results.
 For the measurement records, refer to following test plot:

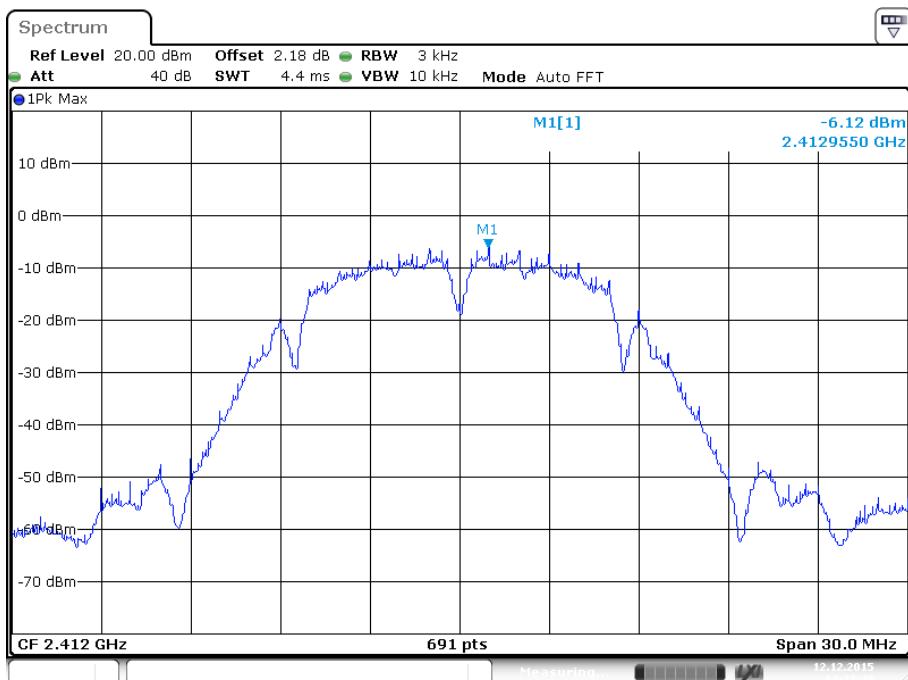
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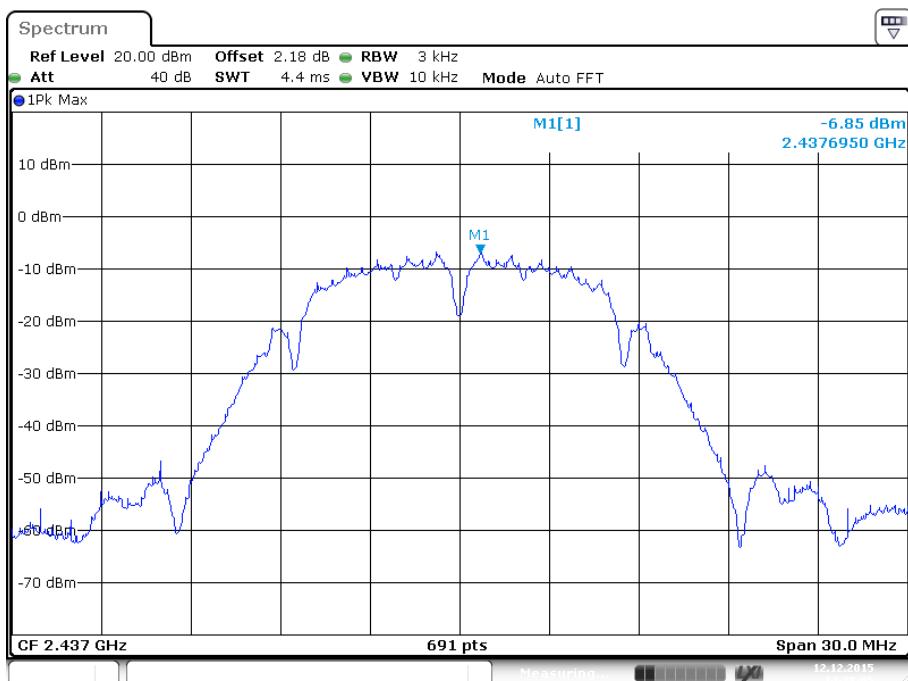
Test Plot of Power Spectral Density, 802.11b

Low channel:



Date: 12.DEC.2015 14:27:40

Middle channel:



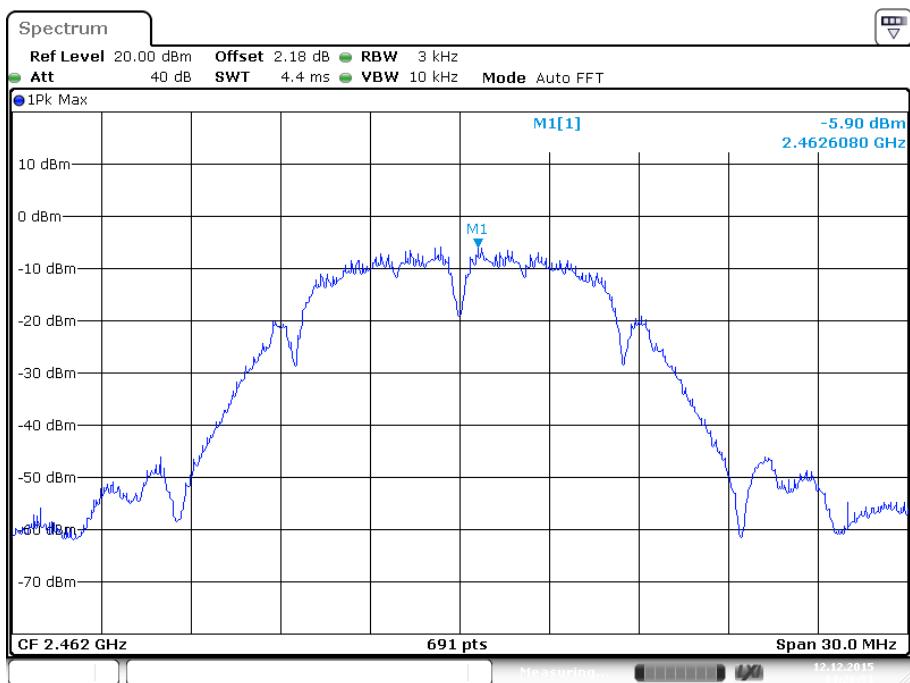
Date: 12.DEC.2015 14:28:06

Prüfbericht - Nr.: 17055307 001

Test Report No.

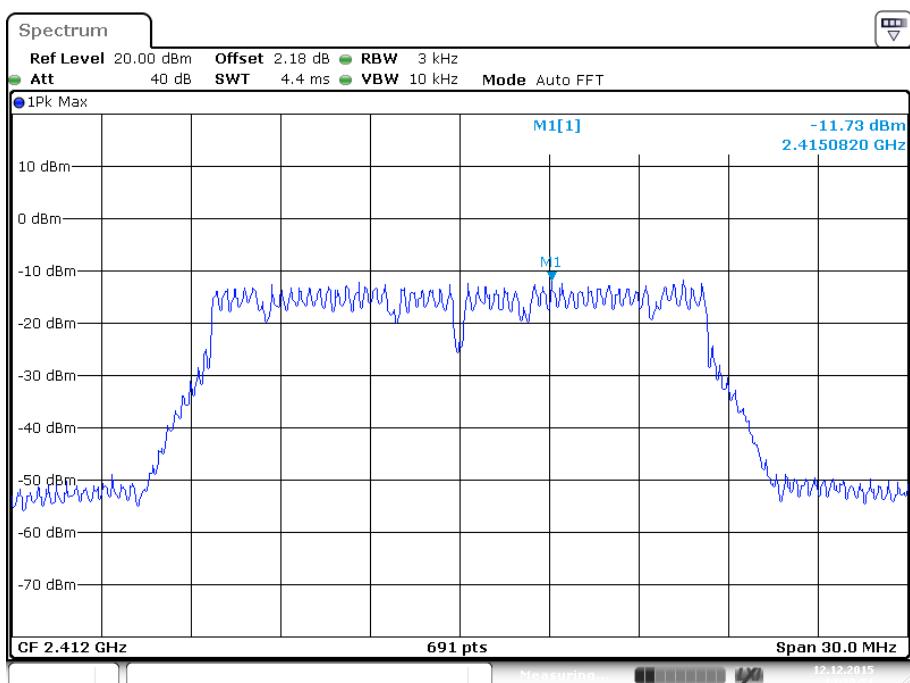
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High channel:



Test Plot of Power Spectral Density, 802.11g

Low channel:

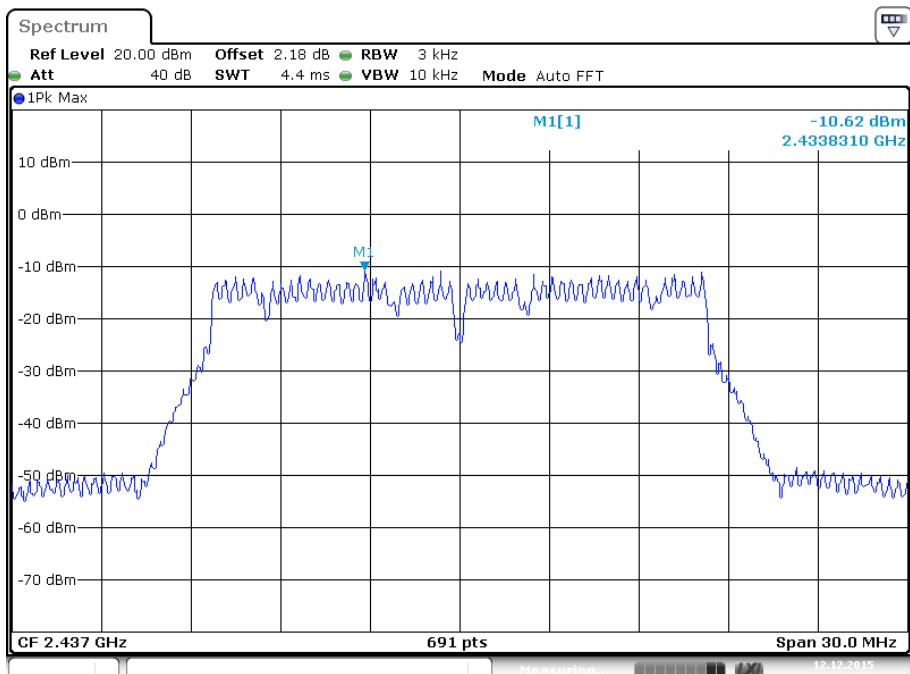


Prüfbericht - Nr.: 17055307 001

Test Report No.

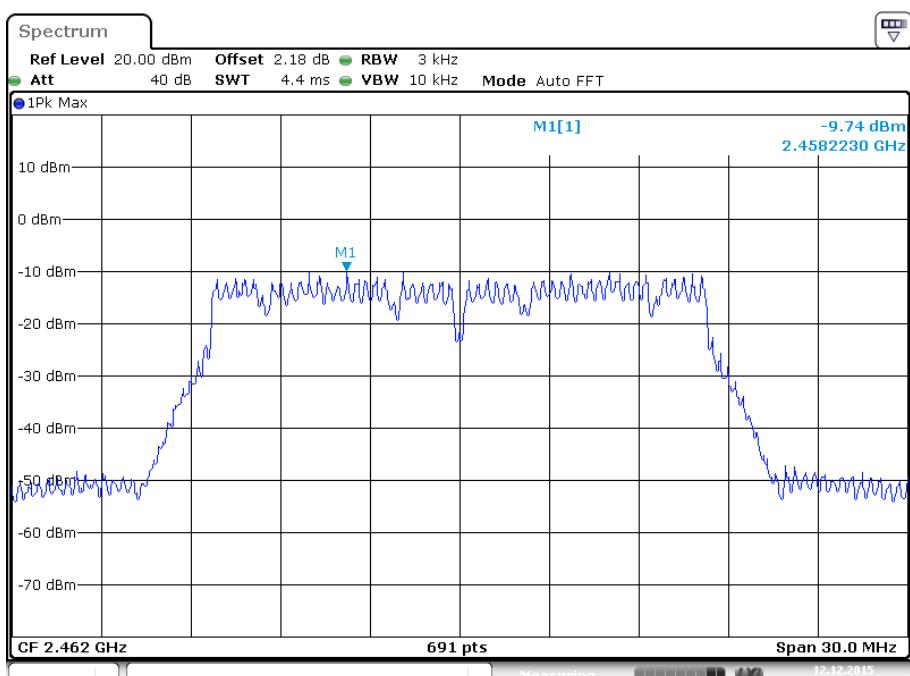
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Middle channel:



Date: 12.DEC.2015 14:29:31

High channel:



Date: 12.DEC.2015 14:29:05

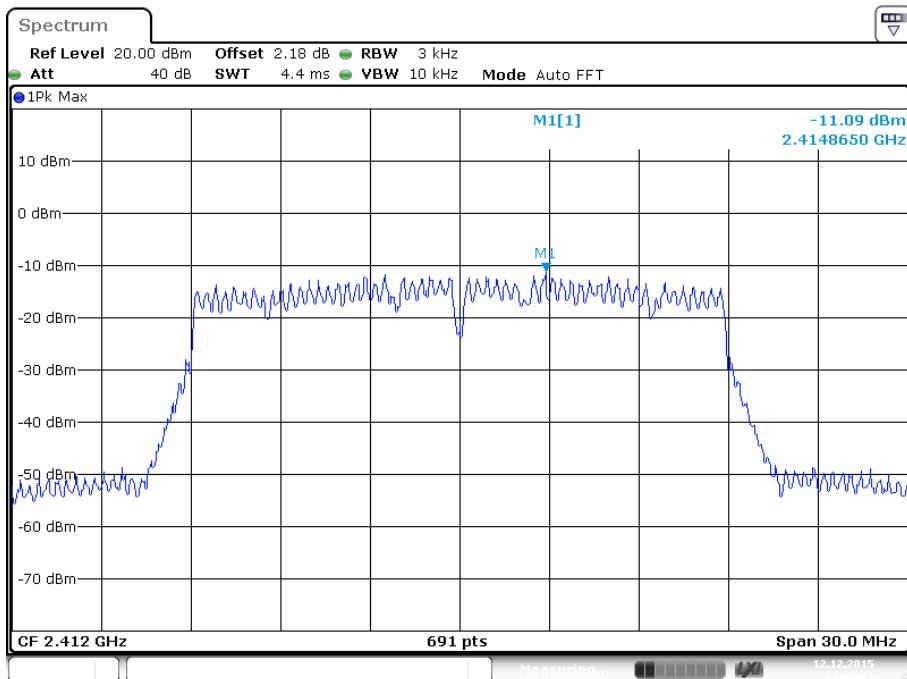
Prüfbericht - Nr.: 17055307 001

Test Report No.

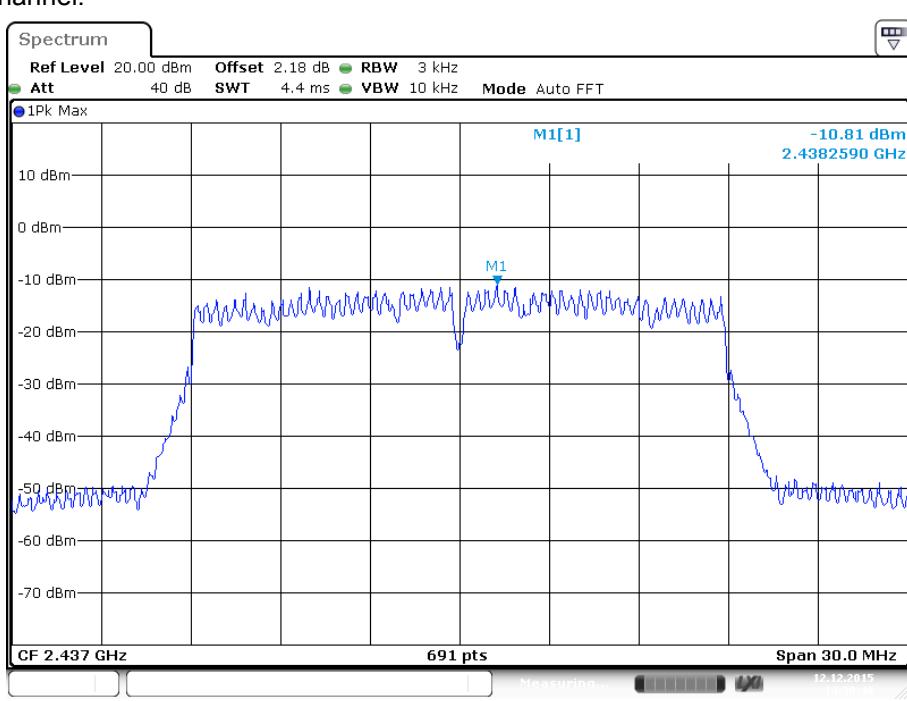
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Test Plot of Power Spectral Density, 802.11n(HT20)

Low channel:



Middle channel:

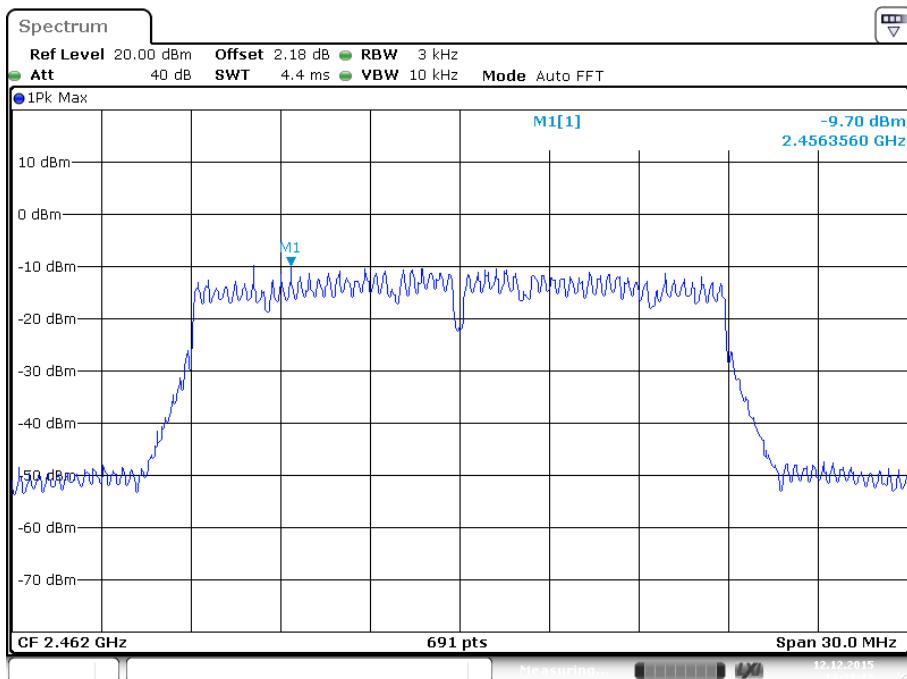


Prüfbericht - Nr.: 17055307 001

Test Report No.

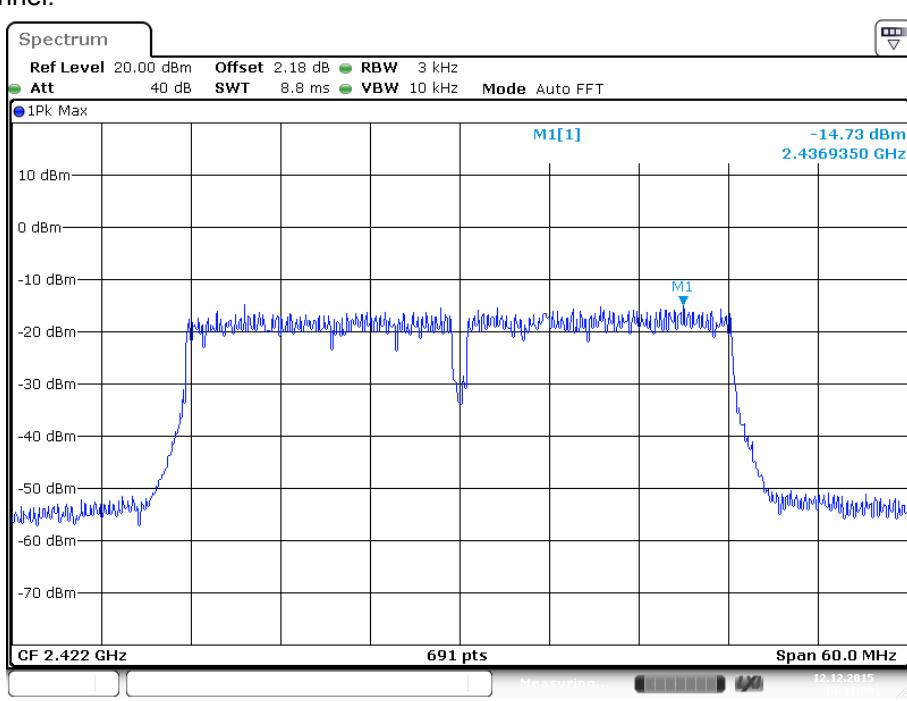
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High channel:



Test Plot of Power Spectral Density, 802.11n(HT40)

Low channel:

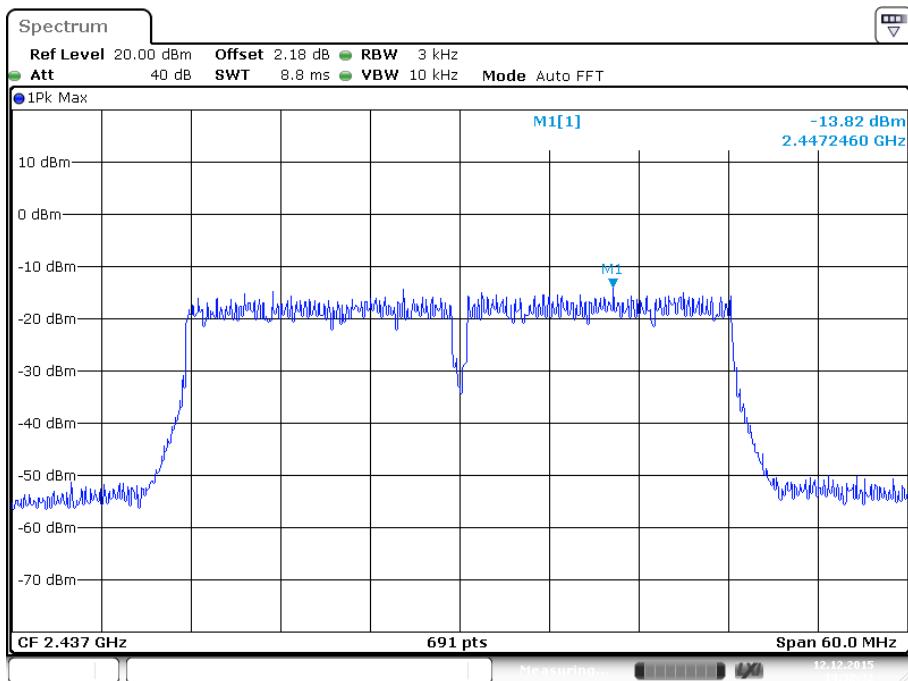


Prüfbericht - Nr.: 17055307 001

Test Report No.

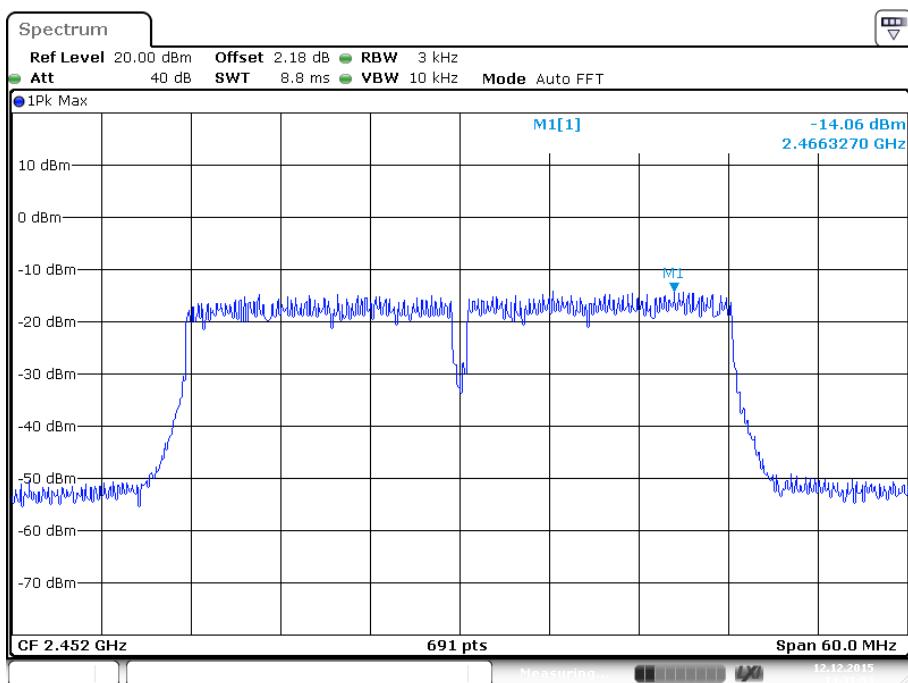
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Middle channel:



Date: 12.DEC.2015 14:32:33

High channel:



Date: 12.DEC.2015 14:31:53

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5.1.4 6dB Bandwidth

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.247(a)(2)
Basic standard	:	ANSI C63.10: 2013
Limits	:	> 500 KHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	12.12.2015
Input voltage	:	AC 120/60Hz via AC/DC adapter
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 8: Test Result of 6dB Bandwidth

Test Mode	Data Rate	Frequency (MHz)	-6dB Bandwidth (MHz)	Limit (kHz)
802.11b	1 Mbps	2412	9.16	> 500
		2437	9.16	
		2462	9.16	
802.11g	6 Mbps	2412	16.41	> 500
		2437	16.45	
		2462	16.45	
802.11n (HT20)	MCS0 Mbps	2412	17.36	> 500
		2437	17.32	
		2462	17.19	
802.11n (HT40)	MCS0 Mbps	2422	36.18	> 500
		2437	36.18	
		2452	36.25	
Minimum Measured Value			9.16	

For the measurement records, refer to following test plot:

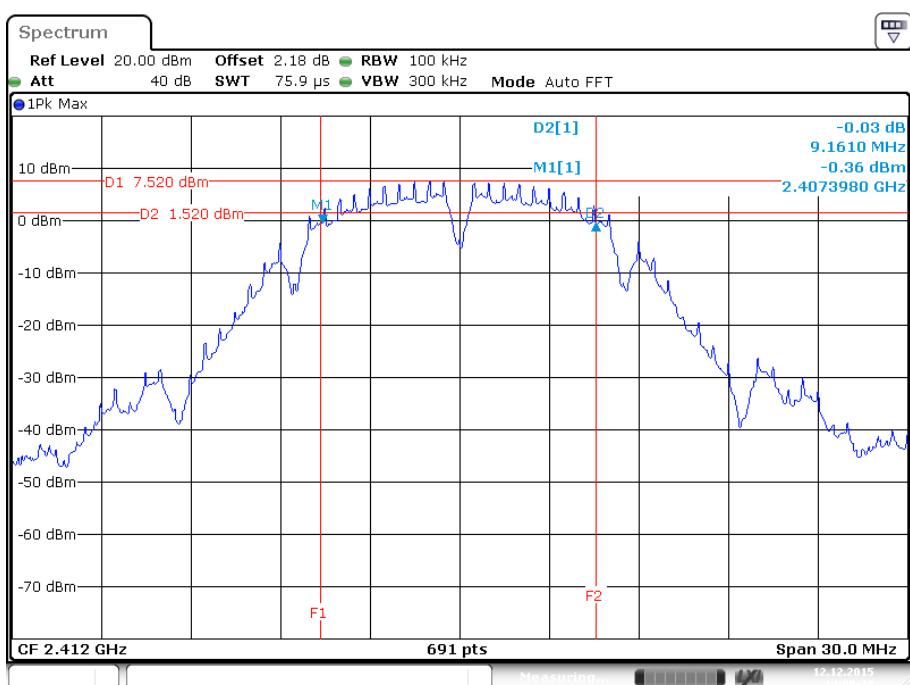
Prüfbericht - Nr.: 17055307 001

Test Report No.

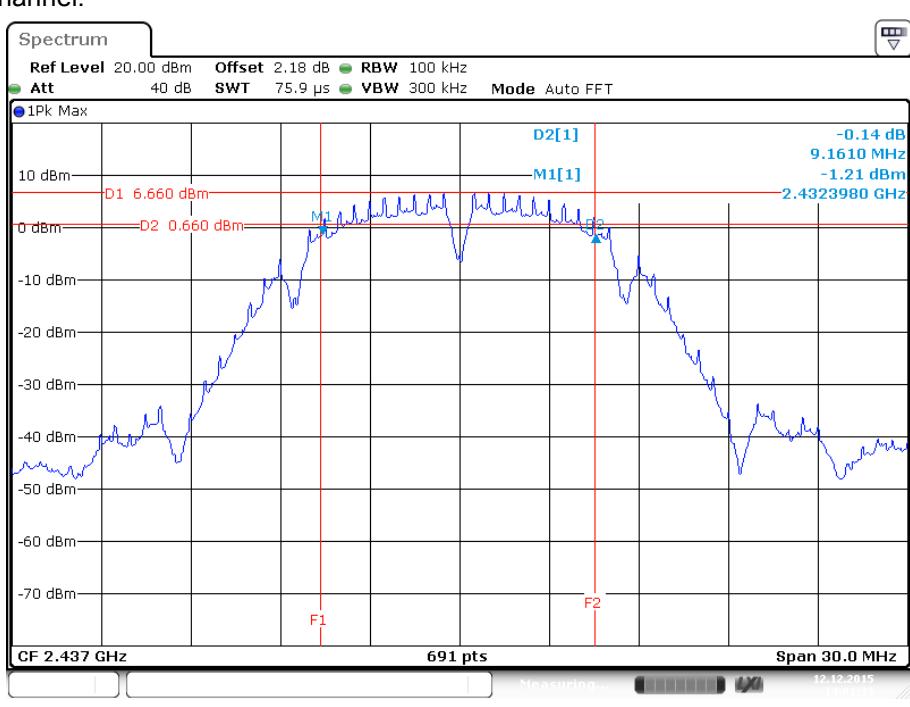
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Test Plot of 6dB Bandwidth, 802.11b

Low channel:



Middle channel:

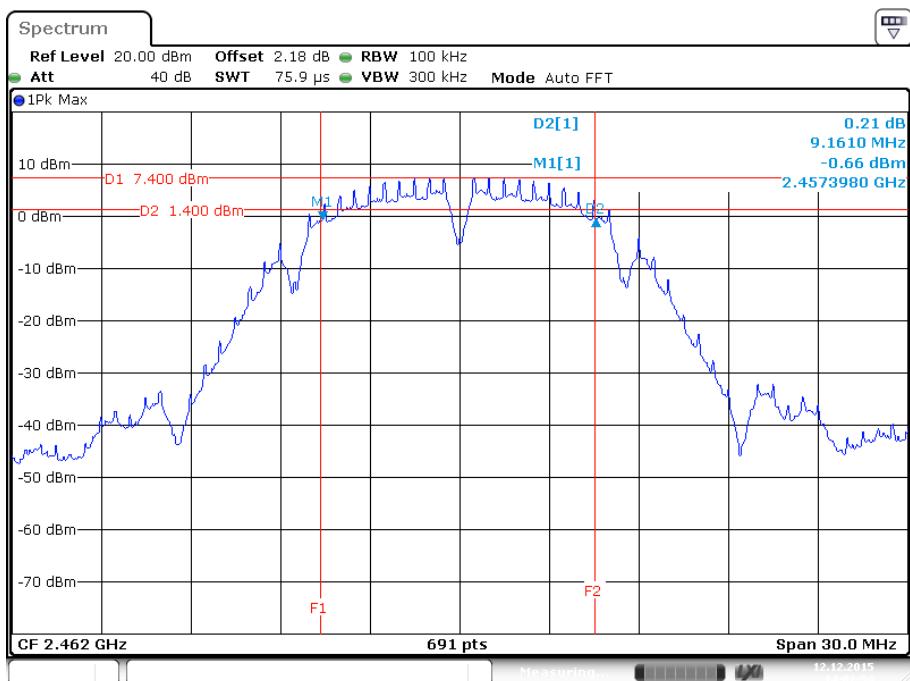


Prüfbericht - Nr.: 17055307 001

Test Report No.

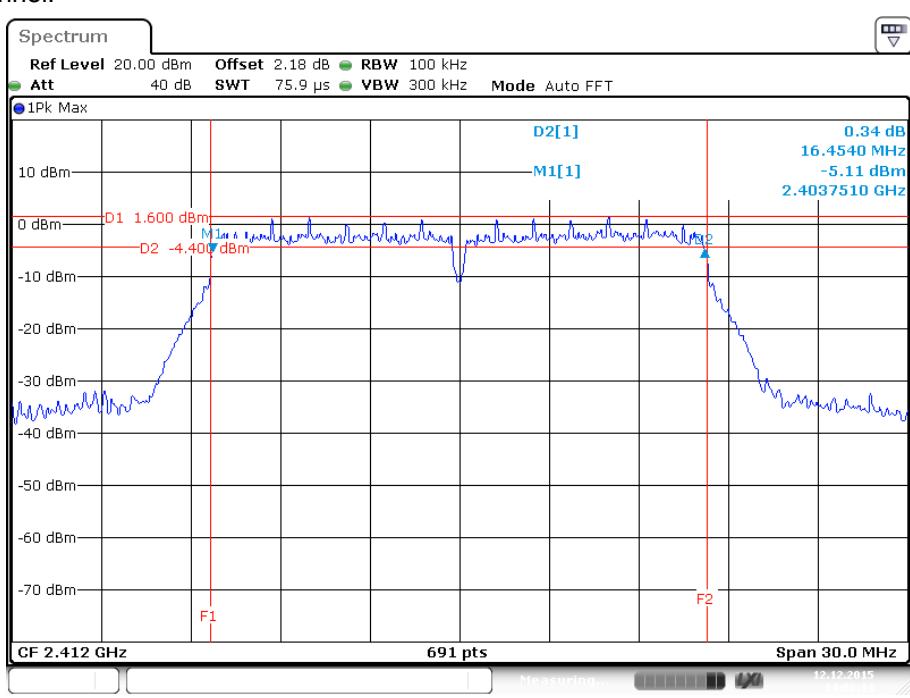
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High channel:



Test Plot of 6dB Bandwidth, 802.11g

Low channel:

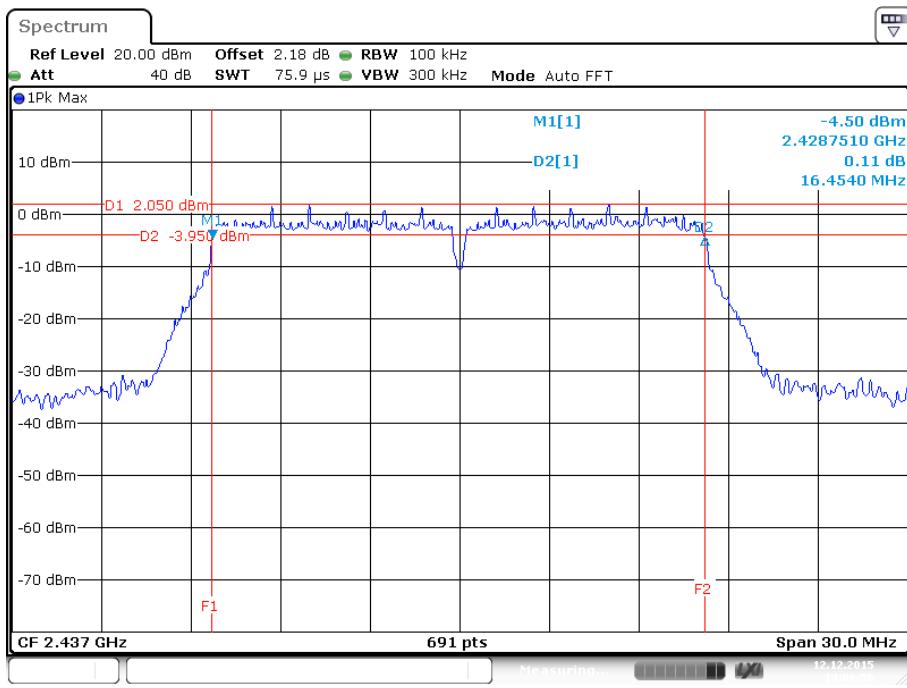


Prüfbericht - Nr.: 17055307 001

Test Report No.

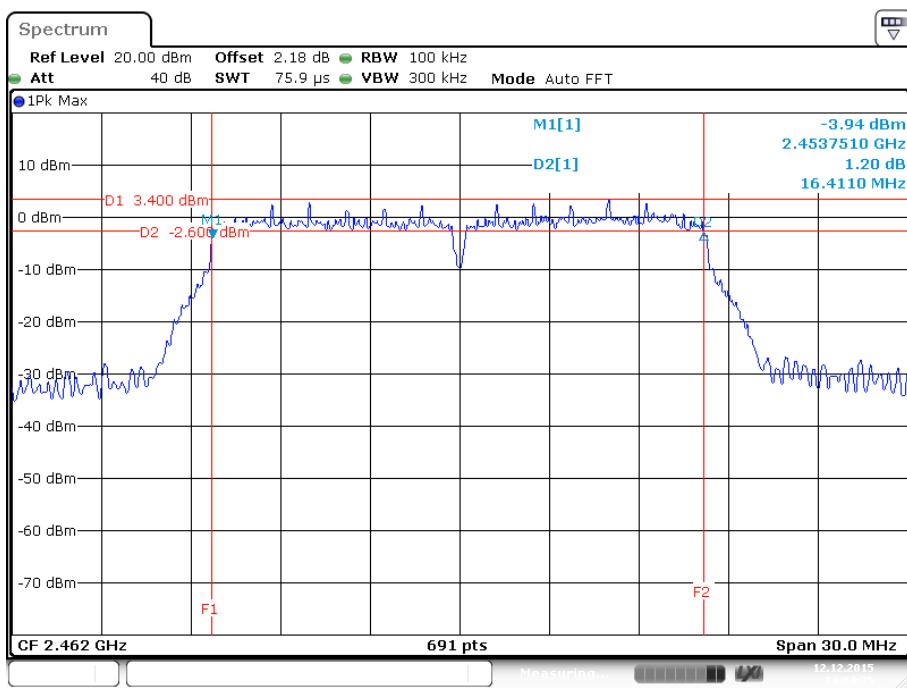
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Middle channel:



Date: 12.DEC.2015 14:06:57

High channel:



Date: 12.DEC.2015 14:04:36

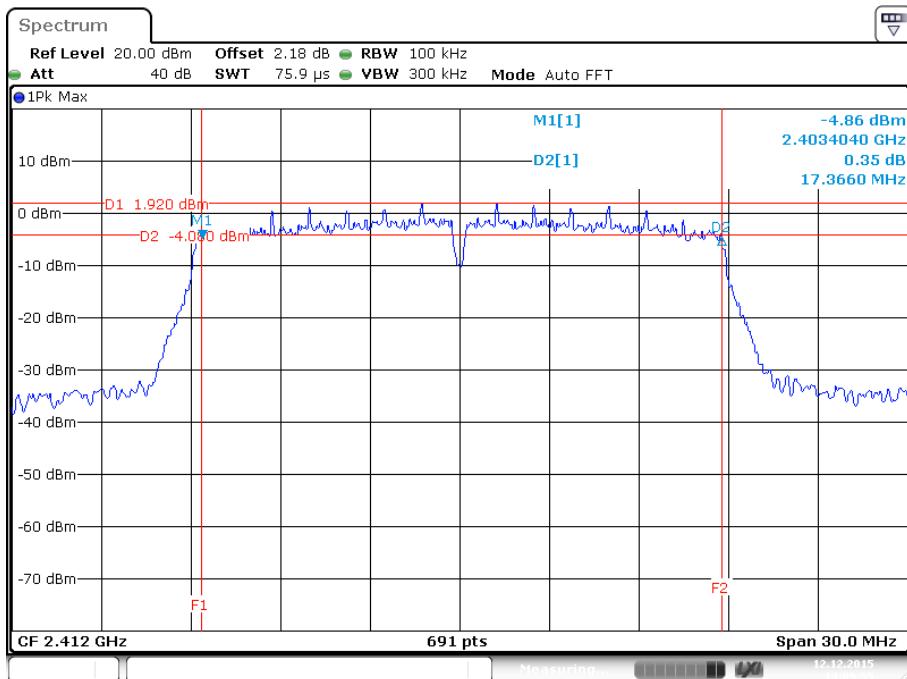
Prüfbericht - Nr.: 17055307 001

Test Report No.

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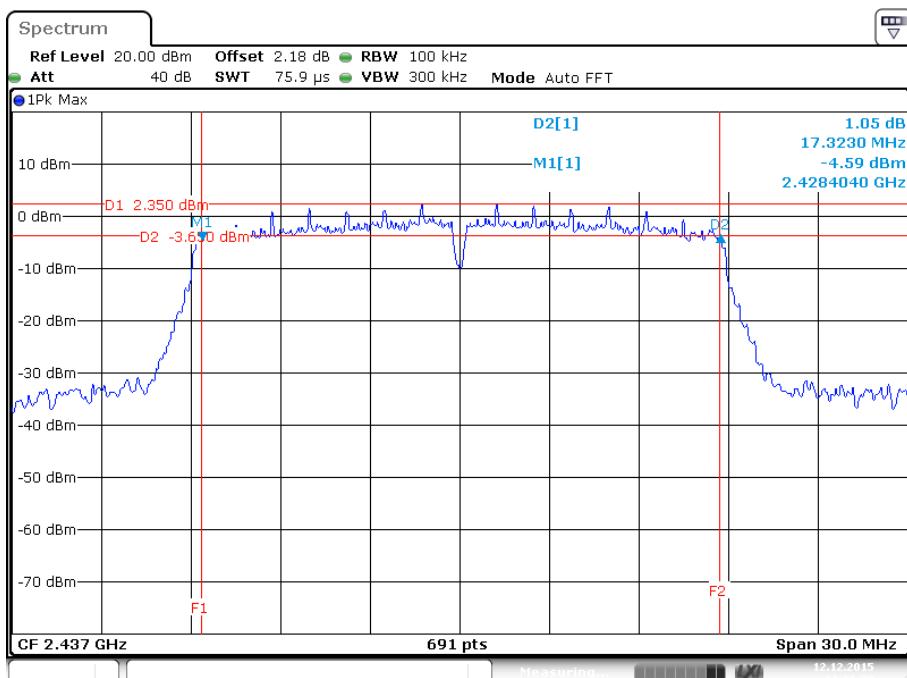
Test Plot of 6dB Bandwidth, 802.11n(HT20)

Low channel:



Date: 12.DEC.2015 14:09:56

Middle channel:



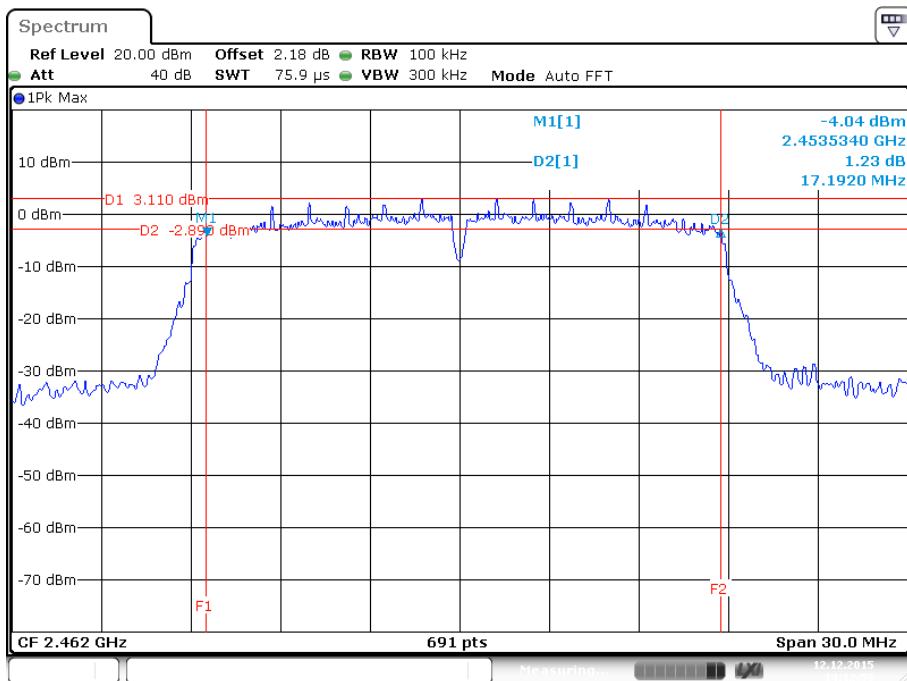
Date: 12.DEC.2015 14:11:31

Prüfbericht - Nr.: 17055307 001

Test Report No.

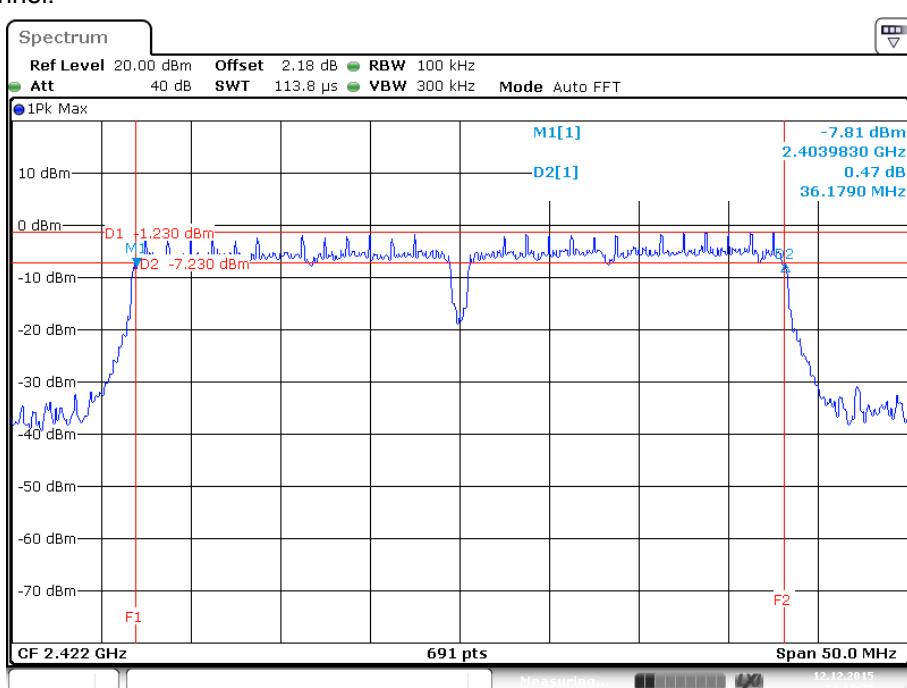
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High channel:



Test Plot of 6dB Bandwidth, 802.11n(HT40)

Low channel:

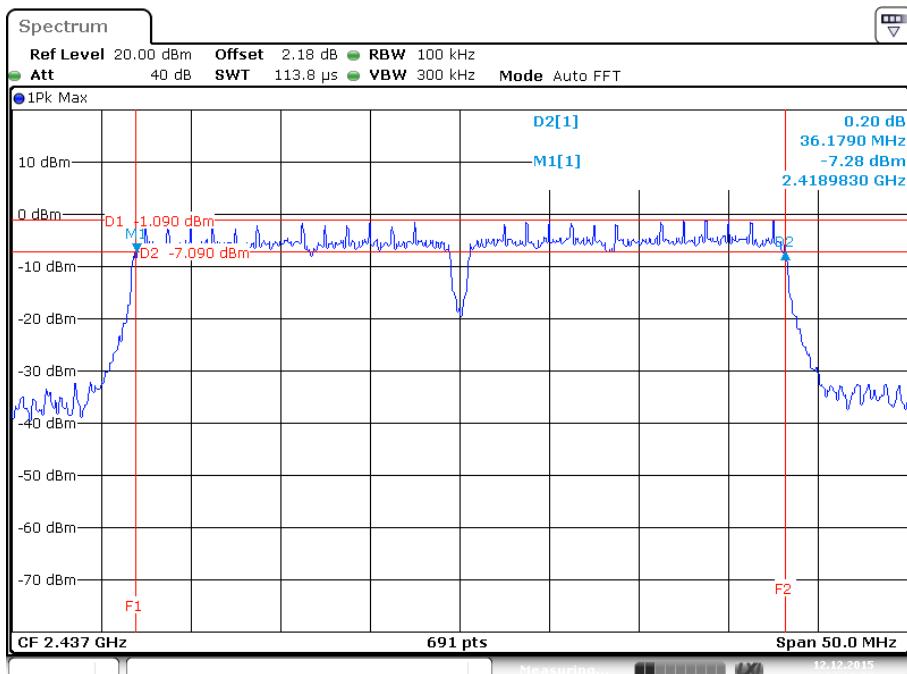


Prüfbericht - Nr.: 17055307 001

Test Report No.

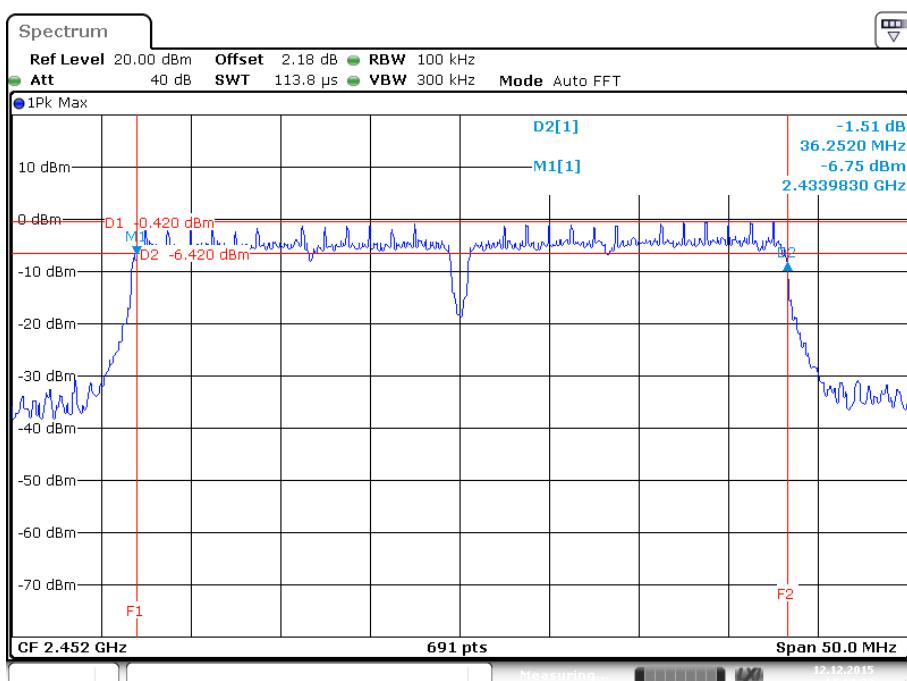
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Middle channel:



Date: 12.DEC.2015 14:15:55

High channel:



Date: 12.DEC.2015 14:14:22

Prüfbericht - Nr.: 17055307 001
*Test Report No.*Seite 29 von 49
Page 29 of 49**5.1.5 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

Test standard	:	FCC Part 15.247(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	12.12.2015
Input voltage	:	AC 120/60Hz via AC/DC adapter
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

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

For the measurement records, refer to following test plot:

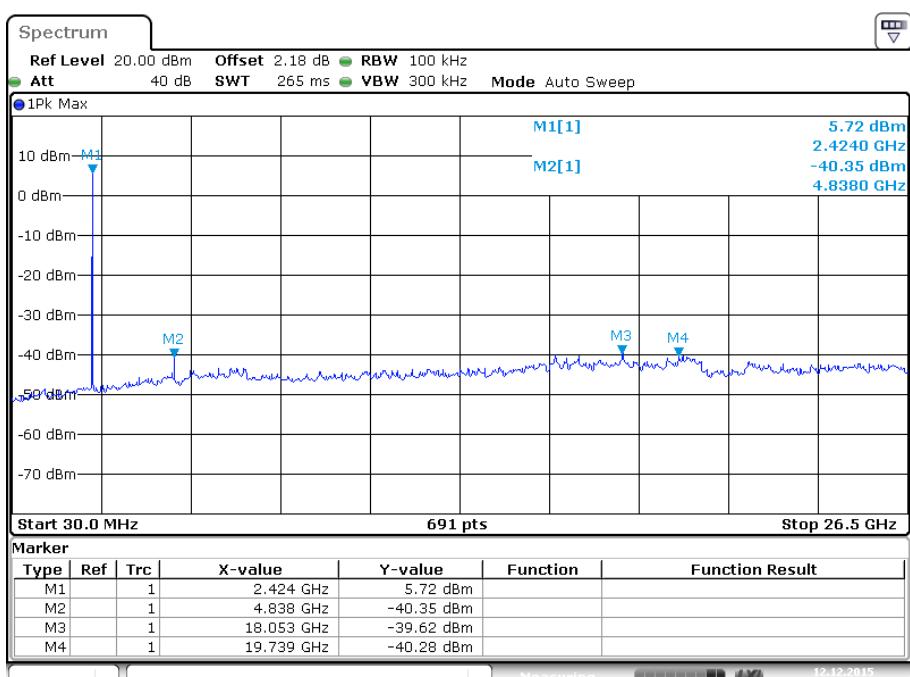
Prüfbericht - Nr.: 17055307 001

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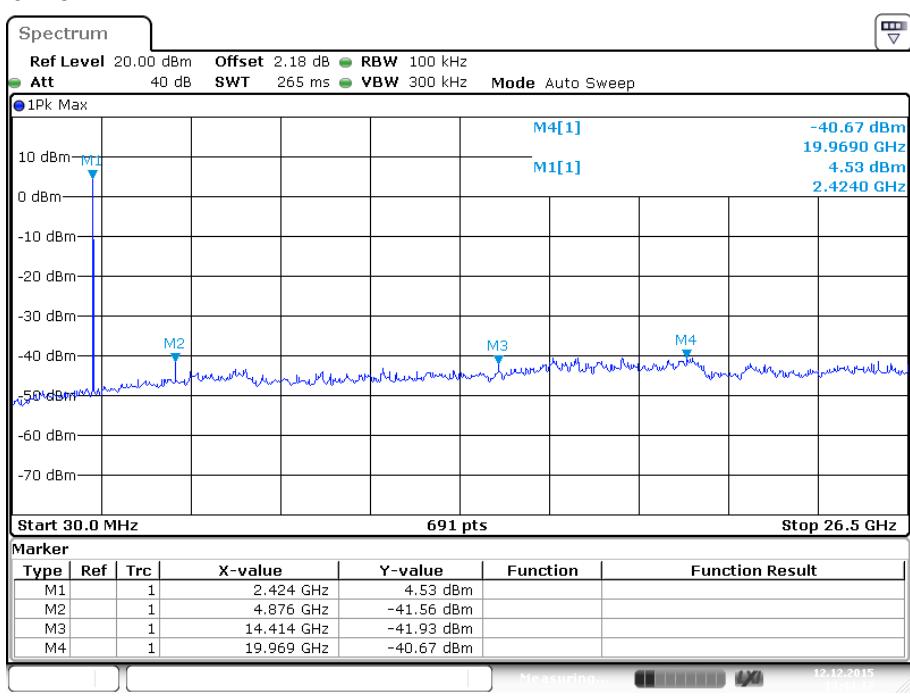
Test Plot of Conducted Spurious Emissions Measured in 100kHz Bandwidth, 802.11b

Low channel:



Date: 12.DEC.2015 14:43:32

Middle channel:



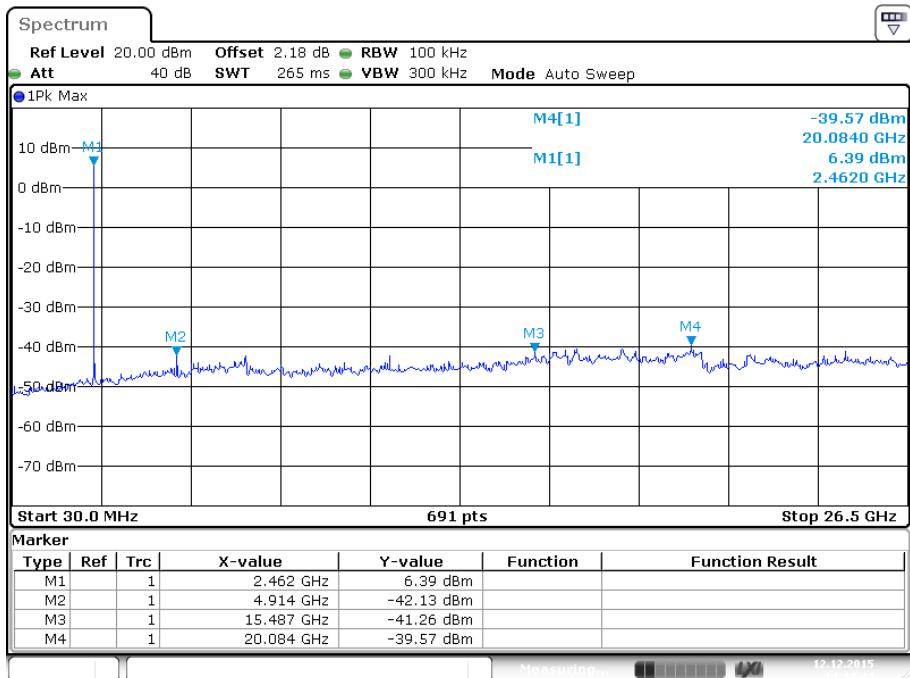
Date: 12.DEC.2015 14:44:18

Prüfbericht - Nr.: 17055307 001

Test Report No.

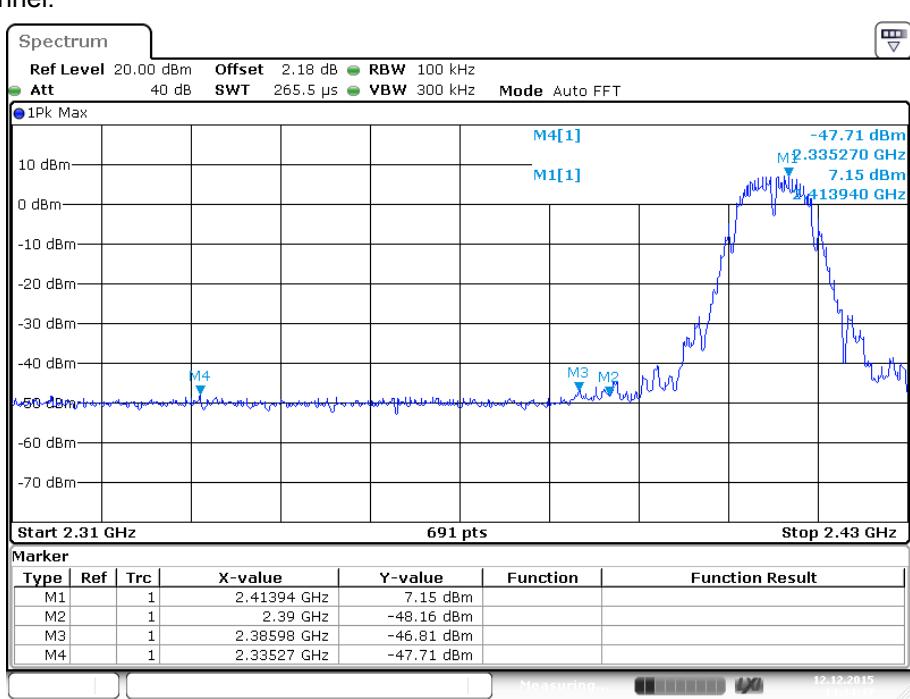
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High channel:



Test Plot of 100 kHz Bandwidth of Frequency Band Edge

Low channel:

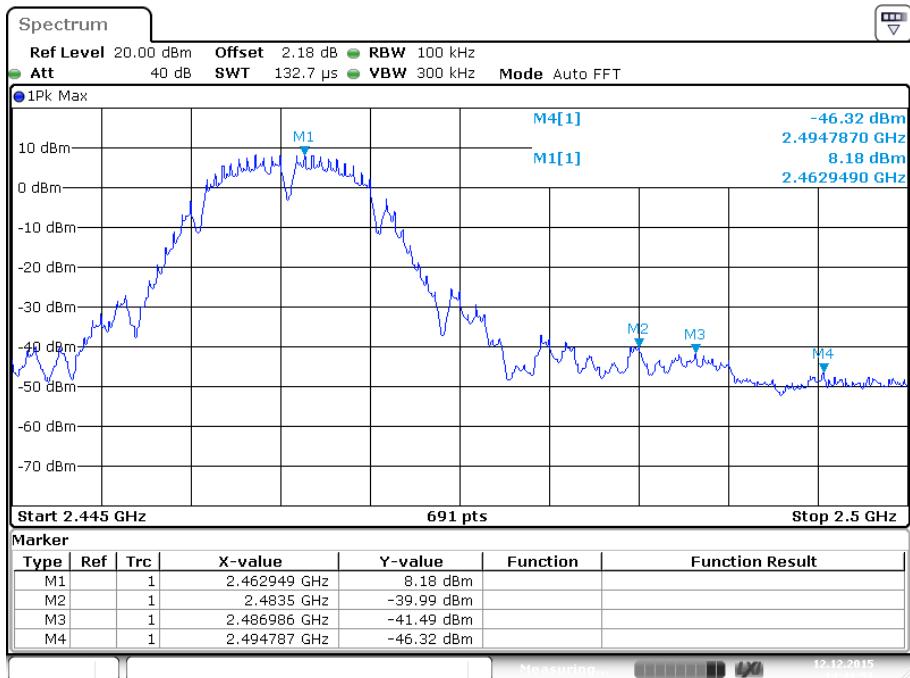


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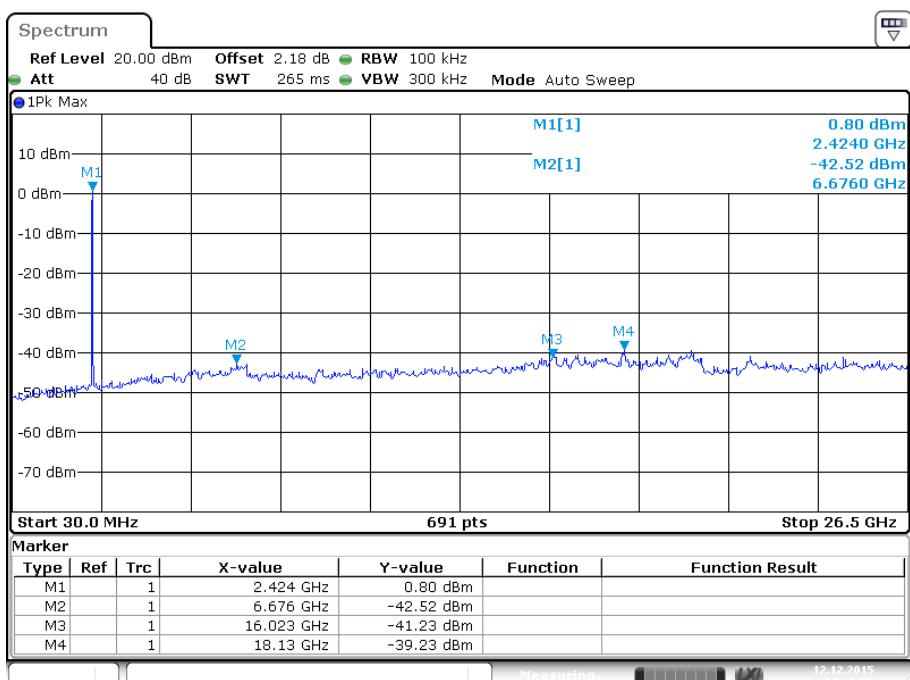
High channel:



Date: 12.DEC.2015 14:41:52

Test Plot of Conducted Spurious Emissions Measured in 100kHz Bandwidth, 802.11g

Low channel:



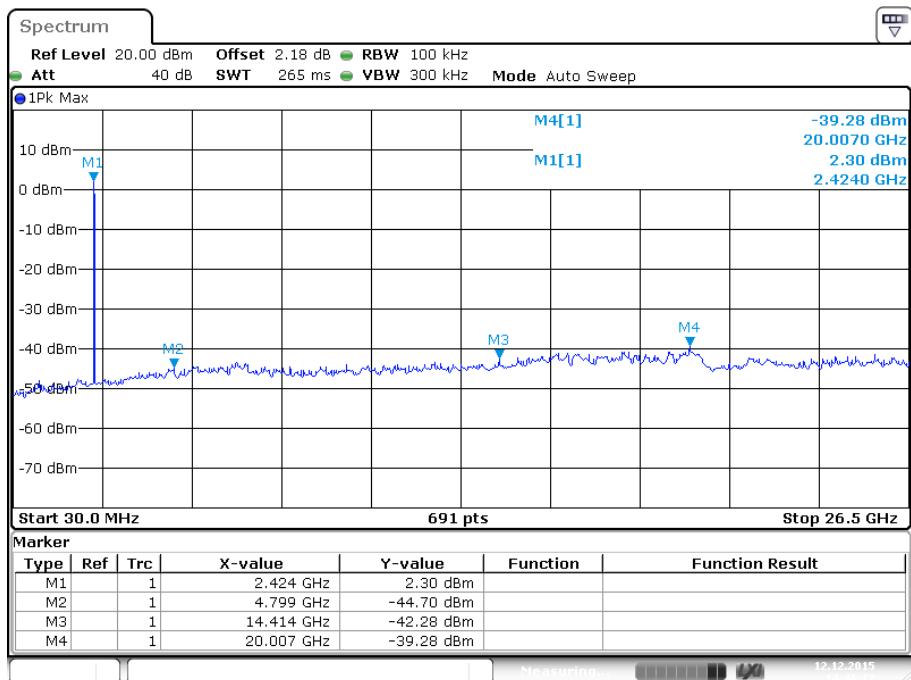
Date: 12.DEC.2015 14:45:26

Prüfbericht - Nr.: 17055307 001

Test Report No.

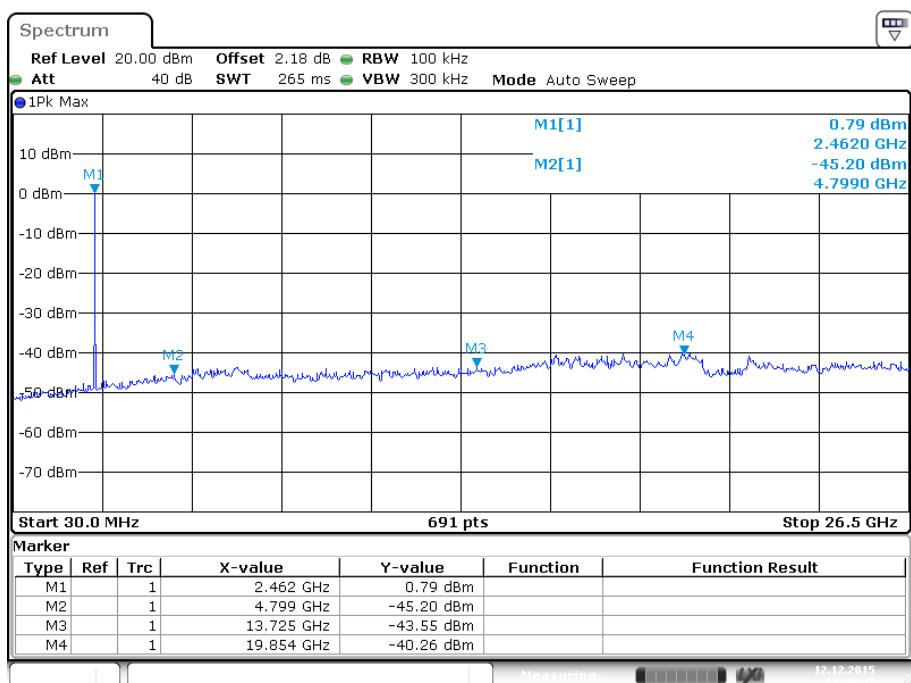
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Middle channel:



Date: 12.DEC.2015 14:46:13

High channel:



Date: 12.DEC.2015 14:46:42

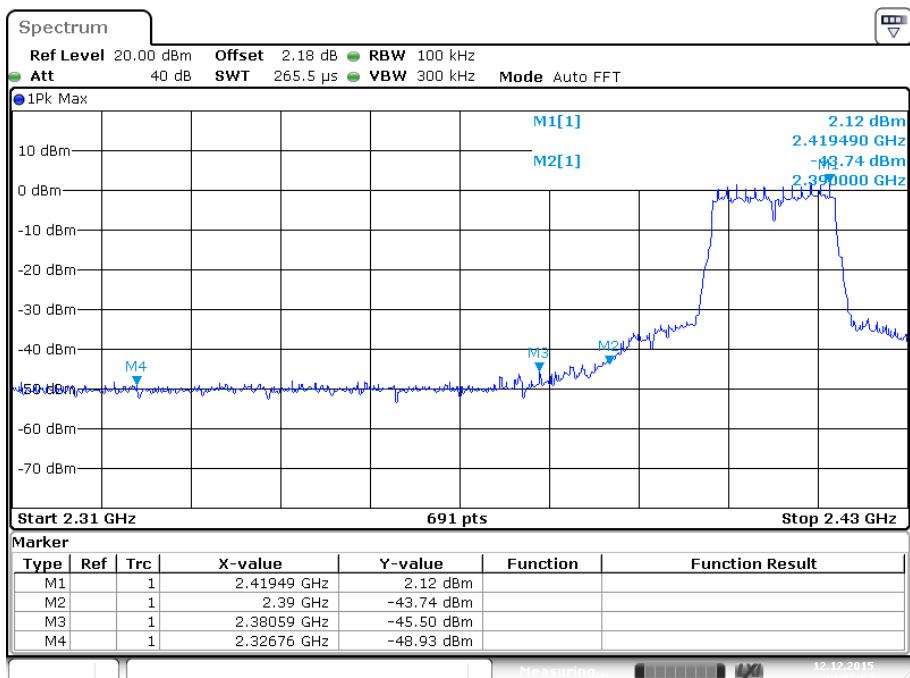
Prüfbericht - Nr.: 17055307 001

Test Report No.

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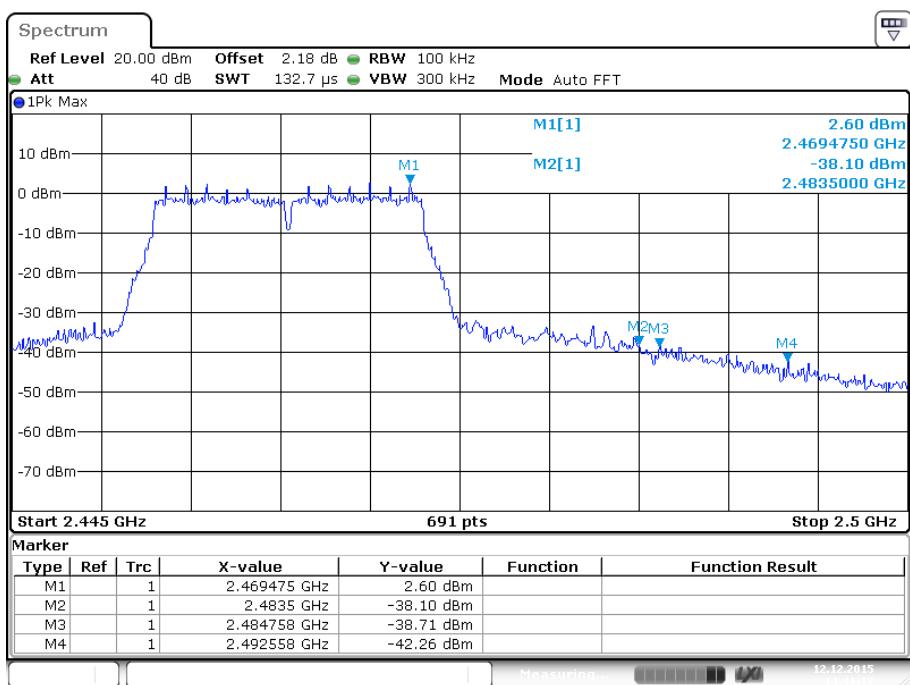
Test Plot of 100 kHz Bandwidth of Frequency Band Edge

Low channel:



Date: 12.DEC.2015 14:35:53

High channel:



Date: 12.DEC.2015 14:41:17

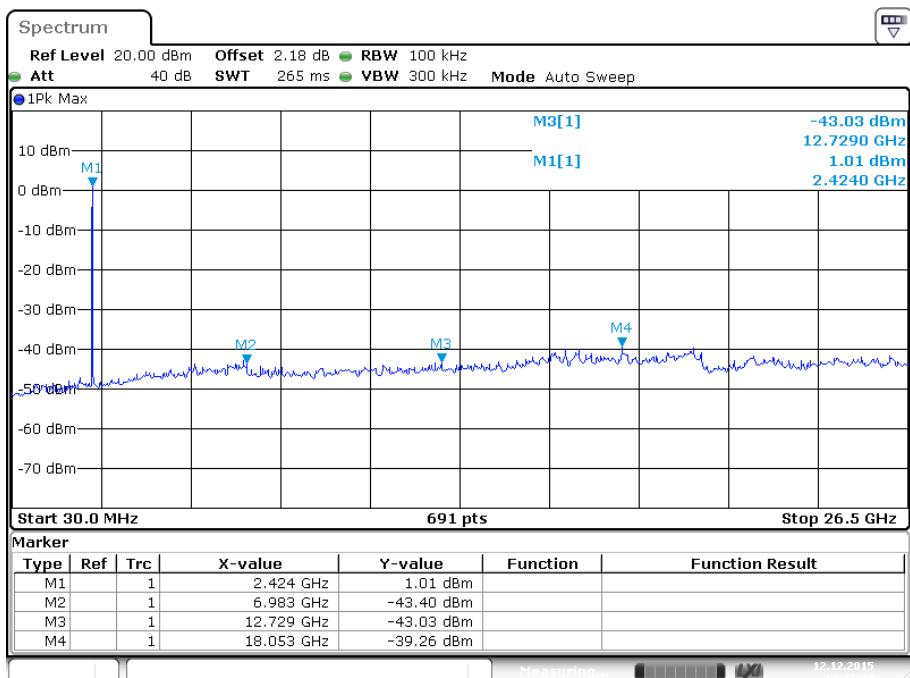
Prüfbericht - Nr.: 17055307 001

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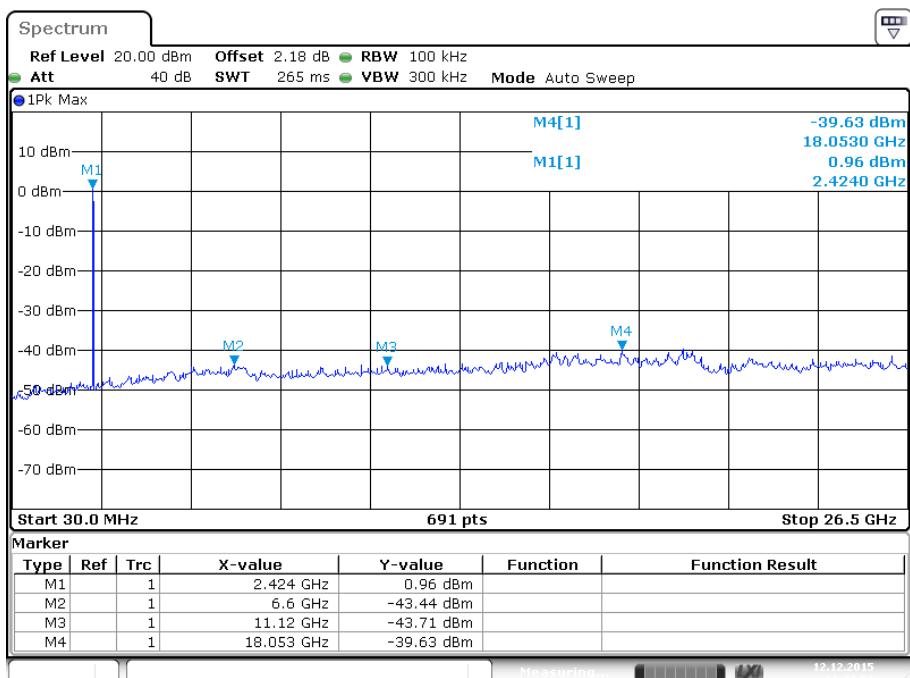
Test Plot of Conducted Spurious Emissions Measured in 100kHz Bandwidth, 802.11n(HT20)

Low channel:



Date: 12.DEC.2015 14:47:24

Middle channel:



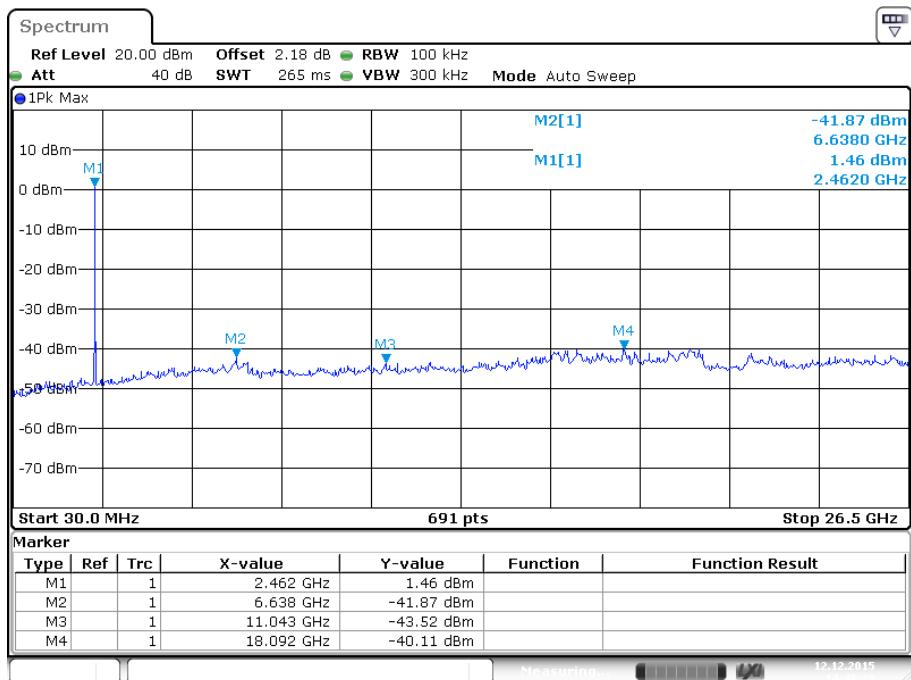
Date: 12.DEC.2015 14:47:51

Prüfbericht - Nr.: 17055307 001

Test Report No.

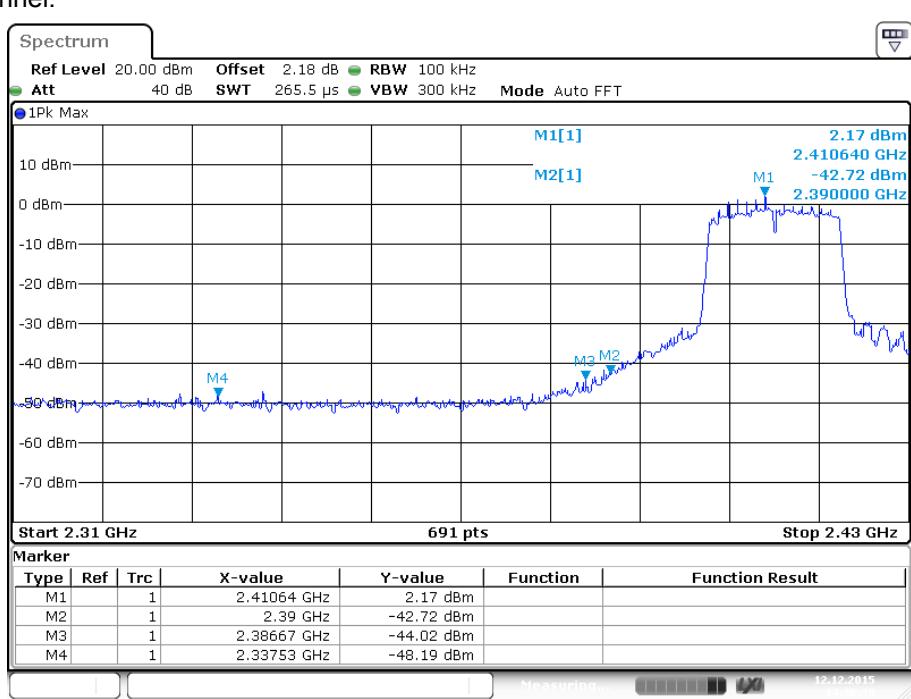
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High channel:



Test Plot of 100 kHz Bandwidth of Frequency Band Edge

Low channel:

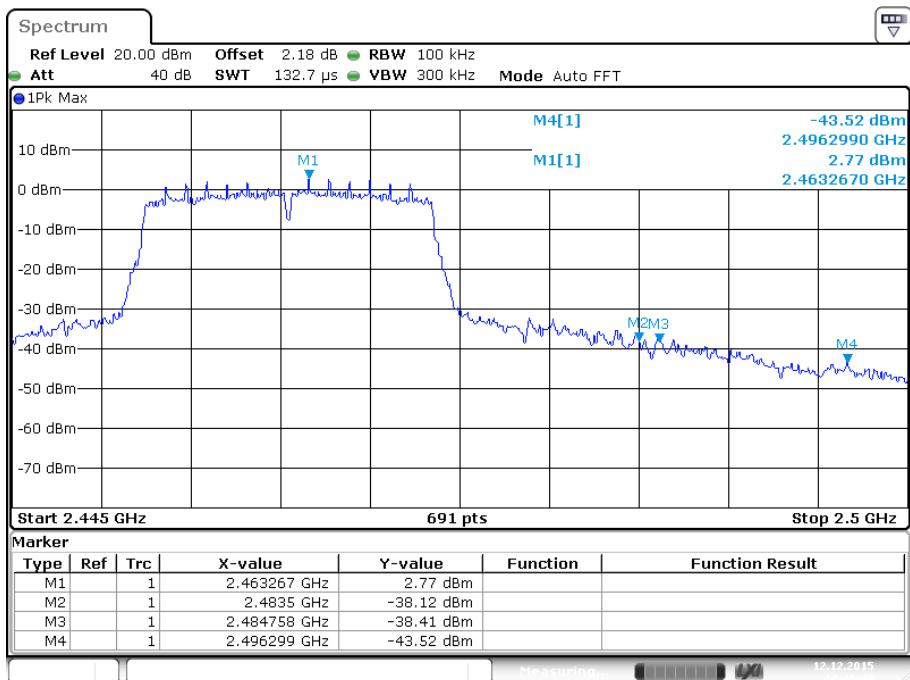


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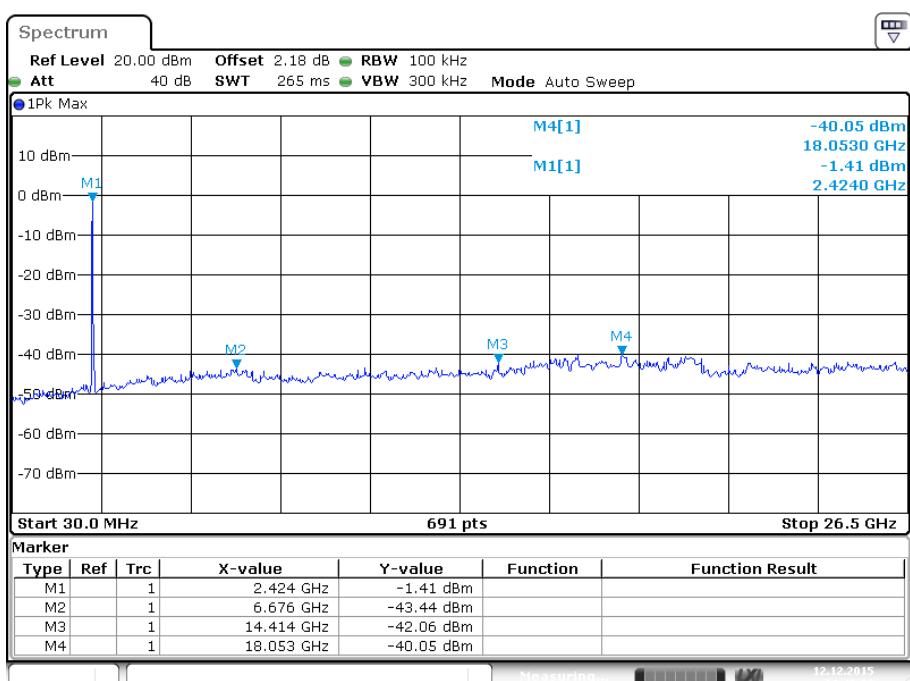
High channel:



Date: 12.DEC.2015 14:40:41

Test Plot of Conducted Spurious Emissions Measured in 100kHz Bandwidth, 802.11n(HT40)

Low channel:



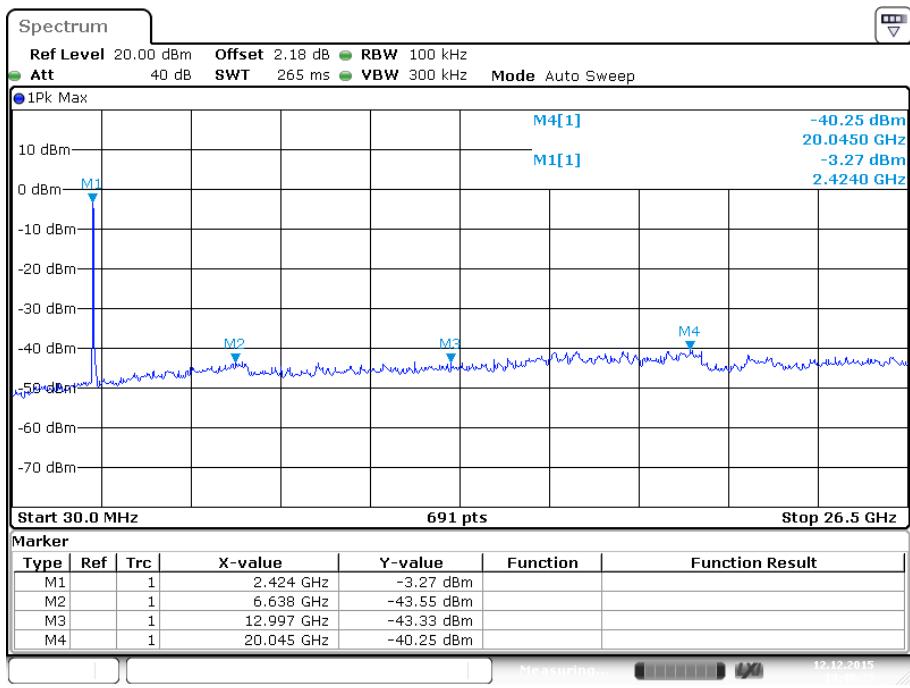
Date: 12.DEC.2015 14:49:04

Prüfbericht - Nr.: 17055307 001

Test Report No.

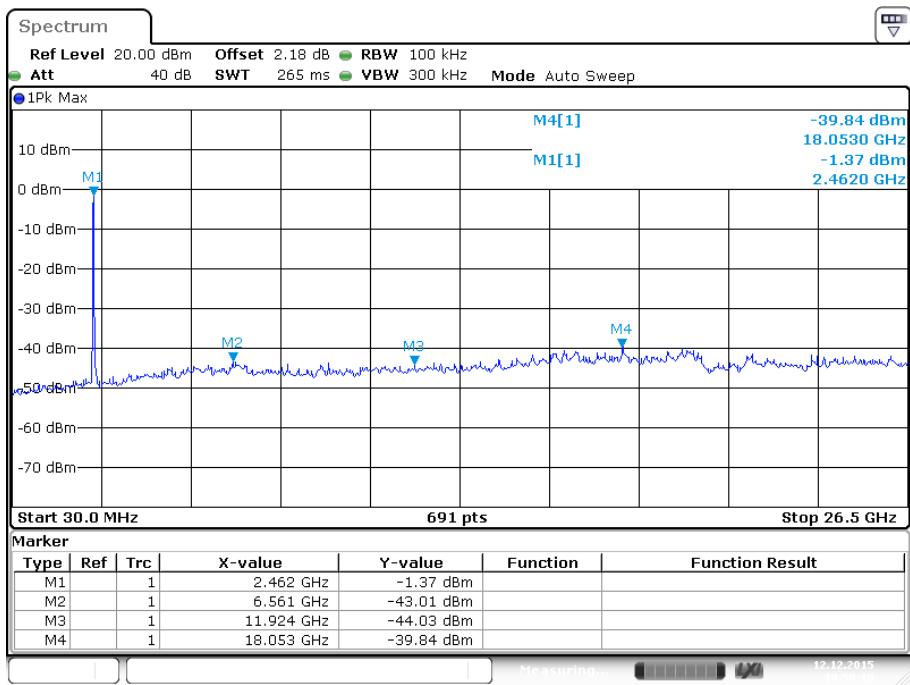
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Middle channel:



Date: 12.DEC.2015 14:49:36

High channel:



Date: 12.DEC.2015 14:50:11

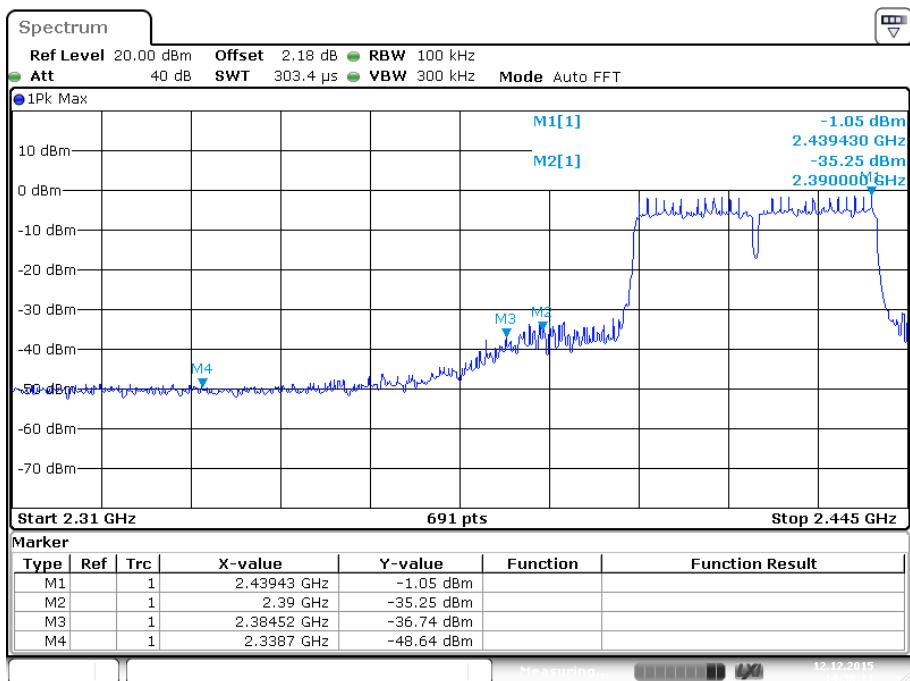
Prüfbericht - Nr.: 17055307 001

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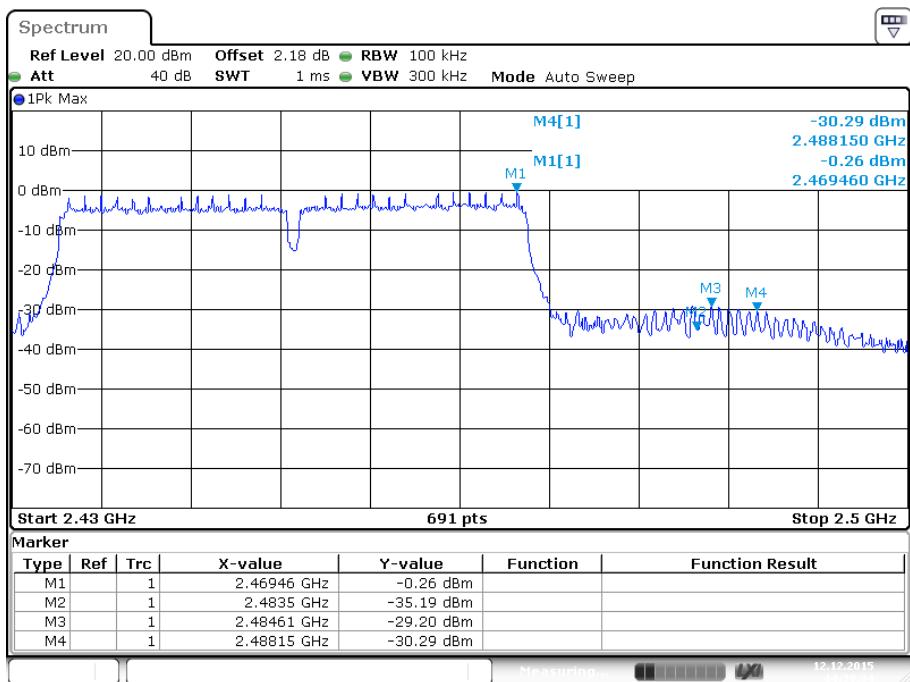
Test Plot of 100 kHz Bandwidth of Frequency Band Edge

Low channel:



Date: 12.DEC.2015 14:38:12

High channel:



Date: 12.DEC.2015 14:39:35

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*Test Report No.*Seite 40 von 49
Page 40 of 49**5.1.6 Radiated Spurious Emission****RESULT:** Pass**Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	: 3m Semi-anechoic Chamber & 3m Full-anechoic Chamber

Test Setup

Date of testing	: 12.12.2015
Input voltage	: AC 120/60Hz via AC/DC adapter
Operation mode	: A.1
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: 17055307 001
*Test Report No.*Seite 41 von 49
Page 41 of 49**5.1.7 Conducted Emission****RESULT:** Pass**Test Specification**

Test standard	:	FCC Part 15.207(a) & FCC Part 15.107(a)
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) & FCC Part 15.107(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	17.11.2015
Input voltage	:	AC 120/60Hz via AC/DC adapter
Operation mode	:	B, C
Earthing	:	Not connected
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: 17055307 001
*Test Report No.*Seite 42 von 49
Page 42 of 49**5.1.8 Radiated Emission****RESULT:****Pass****Test Specification**

Test standard	:	FCC Part 15.209(a)
Basic standard	:	ANSI C63.4: 2014
Frequency range	:	30 - 6000MHz
Limits	:	FCC Part 15.209(a)
Kind of test site	:	3m Semi-anechoic Chamber & 3m Full-anechoic Chamber

Test Setup

Date of testing	:	15.12.2015
Input voltage	:	AC 120/60Hz via AC/DC adapter
Operation mode	:	C
Earthing	:	Not connected
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test standard : FCC KDB Publication 447498 v06

a) Standard requirement

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

b) MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30*P*G}}{d}, \text{ Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

Where:

E=Electric Field (V/m)

P=Peak RF Output Power (W)

G=EUT Antenna numeric gain (Numeric)

d=Separation distance between radiator and human body (m)

$$\text{The formula can be changed to } Pd = \frac{30*P*G}{377*d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

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c) Calculated Result and Limit
Table 9: Test Result of RF Exposure, 802.11b / 1 Mbps

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2412	1.585	14.70	29.51209	0.00931	1.00	Complies
2437	1.585	15.10	32.35937	0.01020	1.00	Complies
2462	1.585	15.80	38.01894	0.01199	1.00	Complies

Table 10: Test Result of RF Exposure, 802.11g / 6 Mbps

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2412	1.585	12.30	16.98244	0.00535	1.00	Complies
2437	1.585	12.70	18.62087	0.00587	1.00	Complies
2462	1.585	13.70	23.44229	0.00739	1.00	Complies

Table 11: Test Result of RF Exposure, 802.11n(HT20) / MCS0 Mbps

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2412	1.585	12.10	16.21810	0.00511	1.00	Complies
2437	1.585	12.60	18.19701	0.00574	1.00	Complies
2462	1.585	13.50	22.38721	0.00706	1.00	Complies

Table 12: Test Result of RF Exposure, 802.11n(HT40) / MCS0 Mbps

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2422	1.585	12.10	16.21810	0.00511	1.00	Complies
2437	1.585	12.40	17.37801	0.00548	1.00	Complies
2452	1.585	13.00	19.95262	0.00629	1.00	Complies

7 Photographs of the Test Set-Up

Photograph 1: Set-up for Radiated Spurious Emission (9kHz ~ 30MHz)



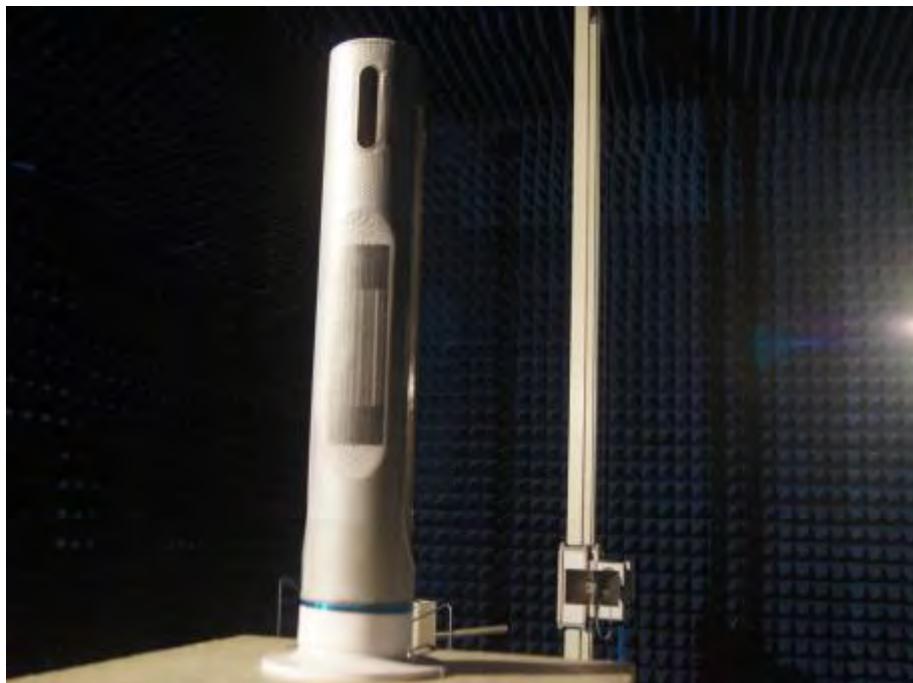
Photograph 2: Set-up for Radiated Spurious Emission (30MHz ~ 1GHz)



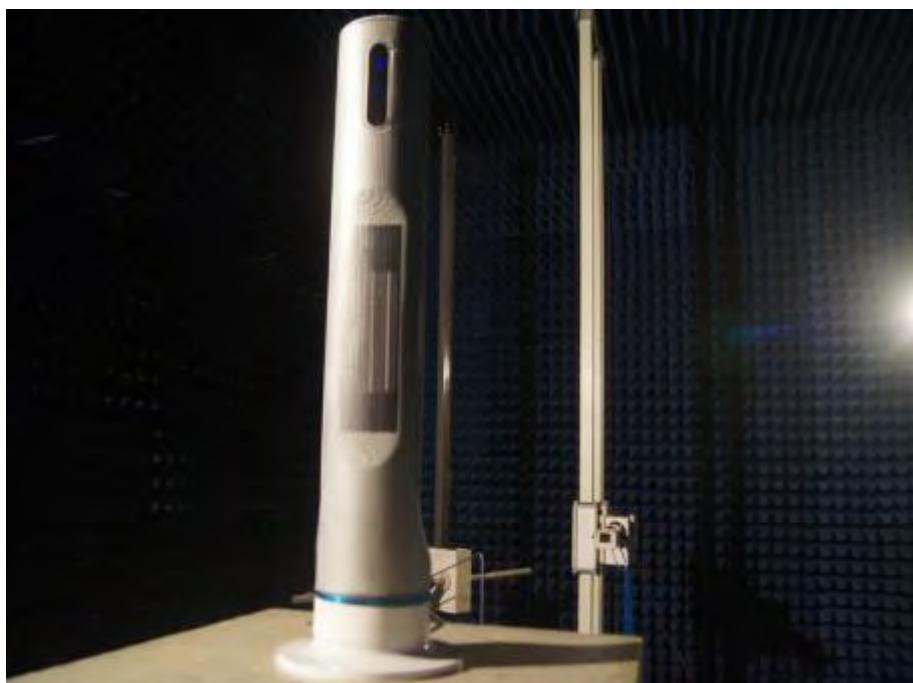
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Photograph 3: Set-up for Radiated Spurious Emission (1GHz ~ 18GHz)



Photograph 4: Set-up for Radiated Spurious Emission (18GHz ~ 26GHz)



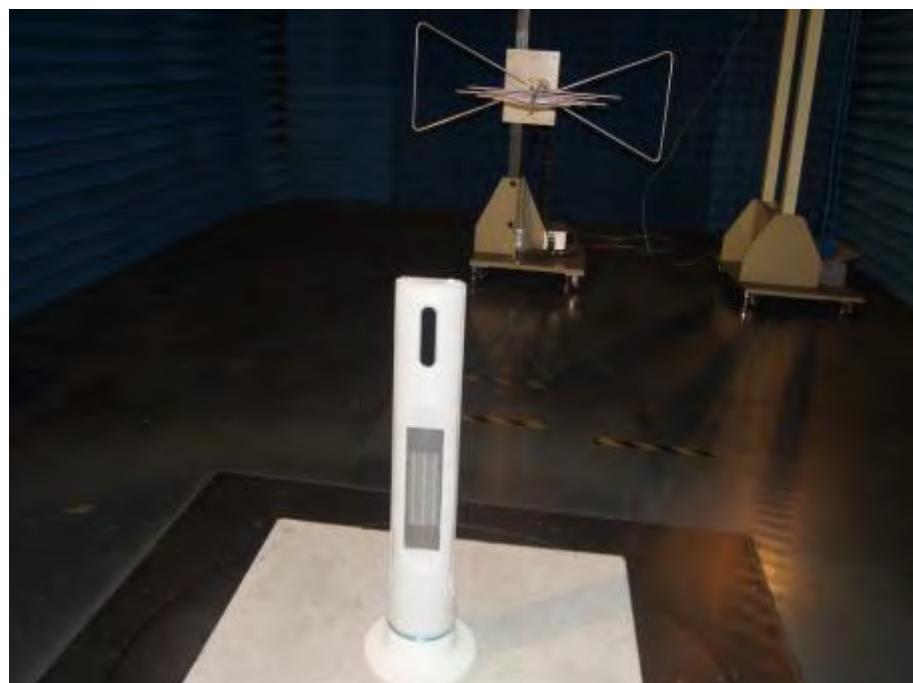
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Photograph 5: Set-up for Conducted Emission



Photograph 6: Set-up for Radiated Emission, below 1GHz



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Photograph 7: Set-up for Radiated Emission, Above 1GHz



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Appendix A

Test Results of Wi-Fi 802.11b/g/n

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NOTE

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Appendix A.1: Radiated Spurious Emissions of 802.11 b mode
Low channel

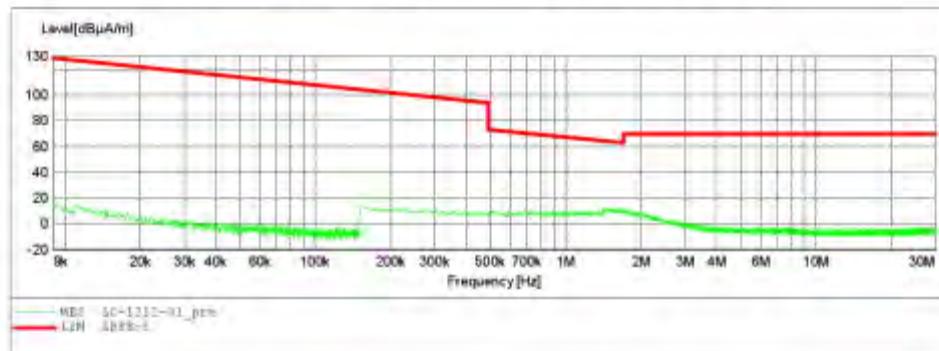
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Ceramic Heater M/N:DE-HT338B
Manufacturer: LIANCHUANG
Operating Condition: TX 2412MHz
Test Site: 2# Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE Fin"

Short Description: **802_802.11b**
Start Stop Step Detector Meas, IF Transducer
Frequency Frequency Width Time Bandw.
5.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz 151dB
150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz 151dB



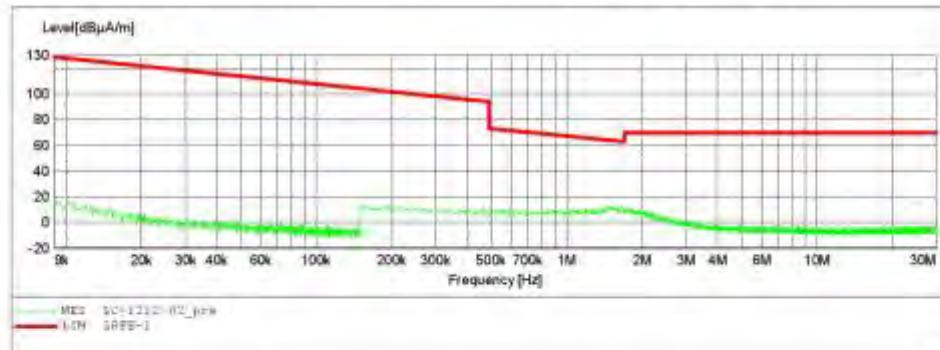
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

BUT: Ceramic Heater N/N:DE-HTS338B
Manufacturer: LIANCHUANG
Operating Condition: TX 2437MHz
Test Site: 24 Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE Fin"

Short Description	Sub STD	VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Measv.	IF	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO., LTD

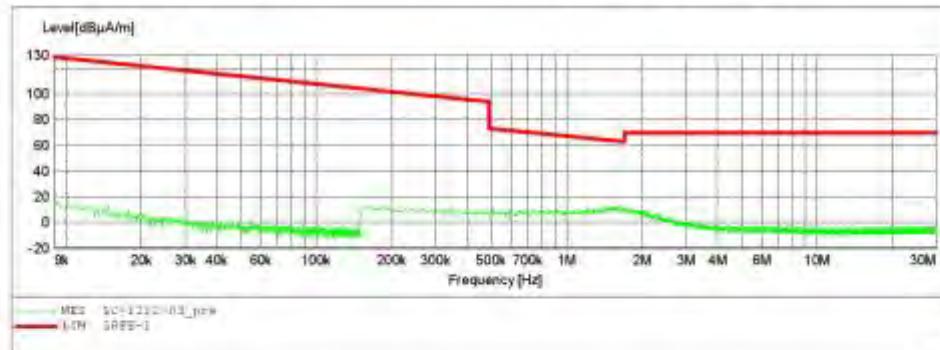
FCC Class B 3M Radiated

BUT: Ceramic Heater N/N:DE-HTS338B
Manufacturer: LIANCHUANG
Operating Condition: TX 2462MHz
Test Site: 24 Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE_Fin"

Short Description	Sub STD	VTERM2 1.70				
Start	Stop	Step	Detector	Measv.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	

9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz 1516M
150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz 1516M





ACCURATE TECHNOLOGY CO., LTD.

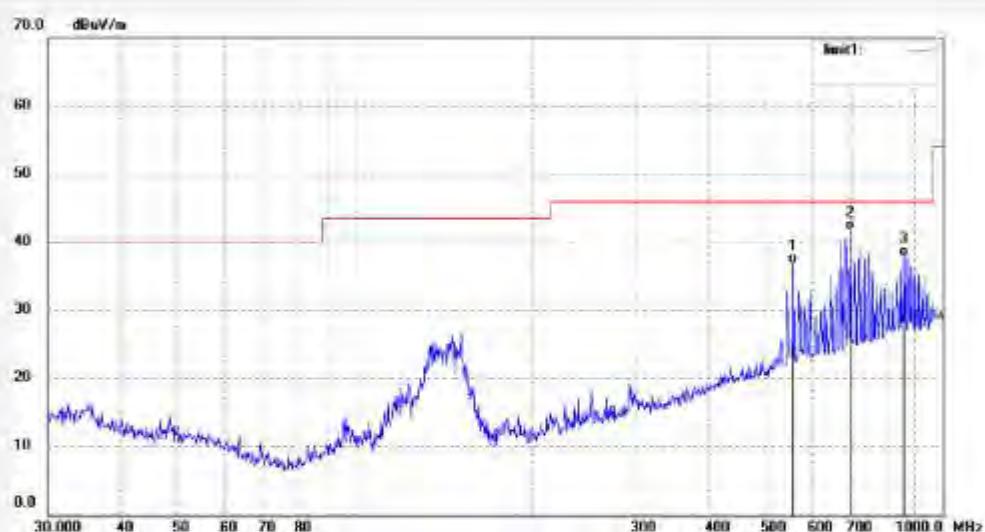
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Jan2015 #3864
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2412MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11b



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	556.7744	40.35	-3.48	36.87	46.00	-9.13	QP			
2	694.4174	43.56	-1.88	41.68	46.00	-4.32	QP			
3	860.0352	36.95	0.86	37.81	46.00	-8.19	QP			



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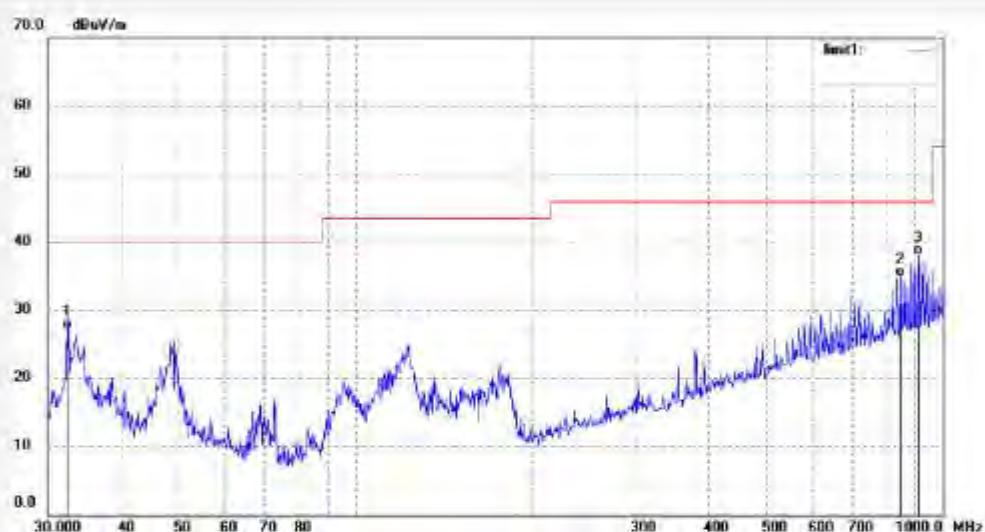
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3865
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C) / Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2412MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11b



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.4059	35.95	-8.80	27.15	40.00	-12.85	QP			
2	848.0562	34.25	0.70	34.95	46.00	-11.05	QP			
3	909.6666	36.71	1.34	38.05	46.00	-7.95	QP			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No : Ian2015 #3603

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/11/20/

Temp.(C) /Hum.(%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature: PEI

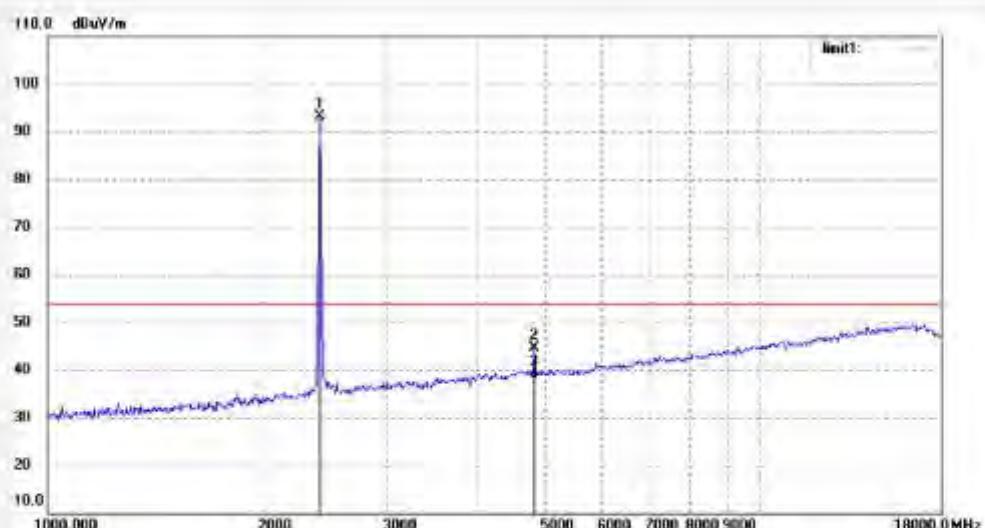
Mode: TX 2412MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11b



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	100.45	-7.43	93.02	/	/	peak			
2	4824.221	44.74	-0.19	44.55	74.00	29.45	peak			
3	4824.221	38.35	-0.19	38.16	54.00	-15.84	AVG			



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Site: 2# Chamber

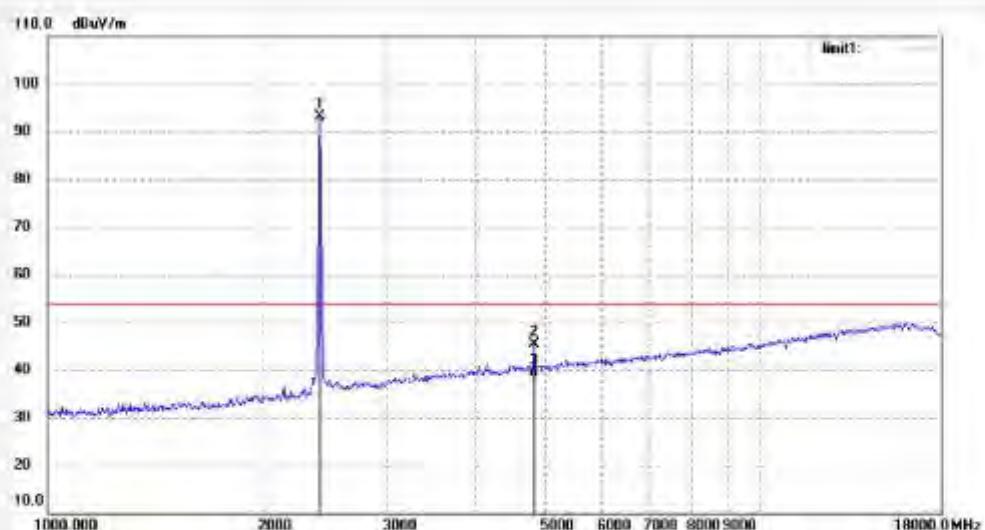
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No : IAN2015 #3604
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2412MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11b



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	100.59	-7.43	93.16	74.00	19.16	peak			
2	4824.215	45.53	-0.19	45.34	74.00	-28.66	peak			
3	4824.215	38.64	-0.19	38.45	54.00	-15.55	AVG			

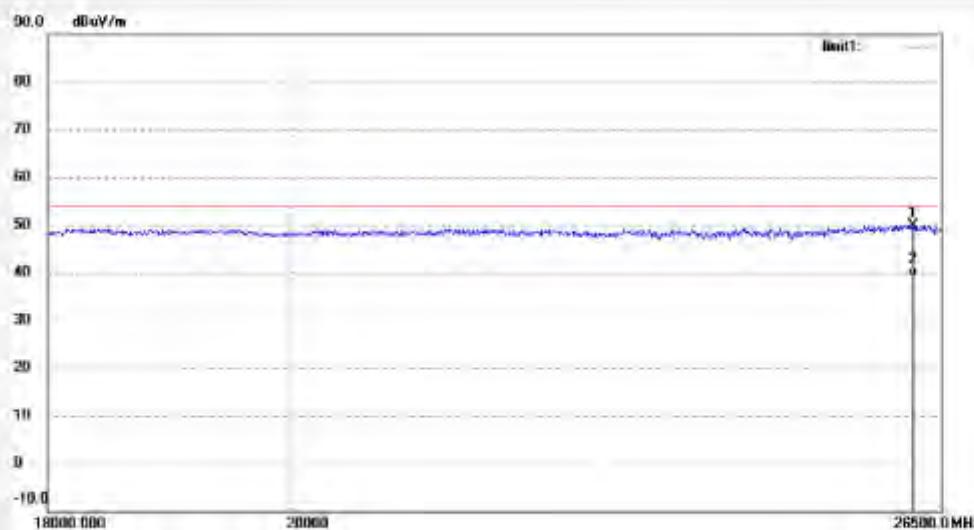


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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3657	Polarization	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2412MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11b		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26174.038	32.87	17.12	48.99	74.00	-24.01	peak			
2	26174.038	21.97	17.12	39.09	54.00	-14.91	AVG			

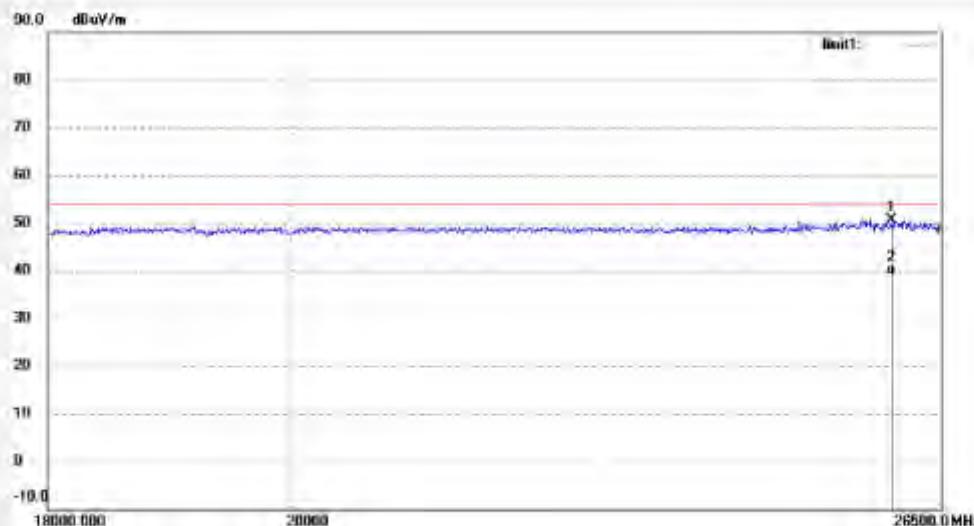


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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No	lan2015 #3658	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2412MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11b		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25932.200	33.34	17.28	50.62	74.00	-23.38	peak			
2	25932.200	21.79	17.28	39.07	54.00	-14.93	AVG			



Middle channel



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Jan2015 #3866

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/12/15/

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature:

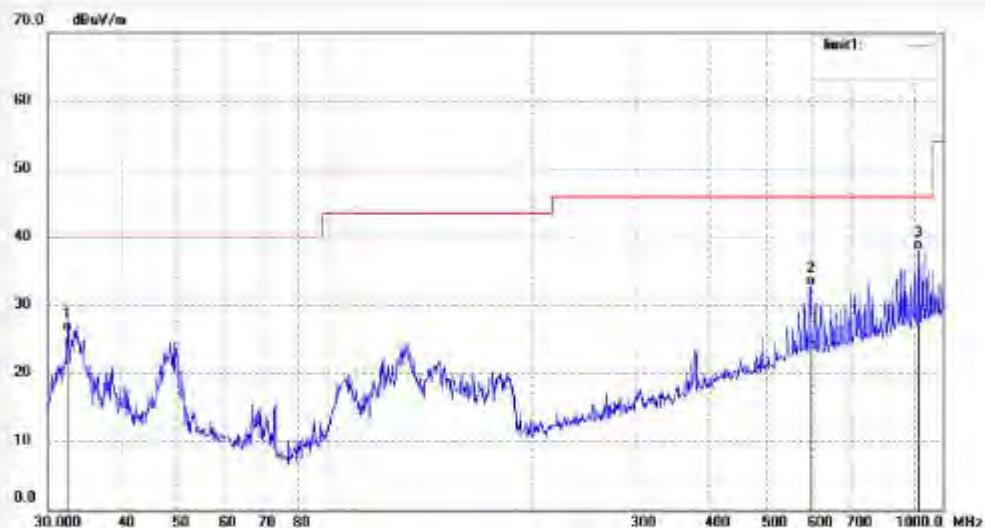
Mode: TX 2437MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11b



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.4059	34.94	-8.80	26.14	40.00	-13.86	QP			
2	595.1327	35.86	-3.02	32.84	46.00	-13.16	QP			
3	909.6666	36.65	1.34	37.99	46.00	-8.01	QP			



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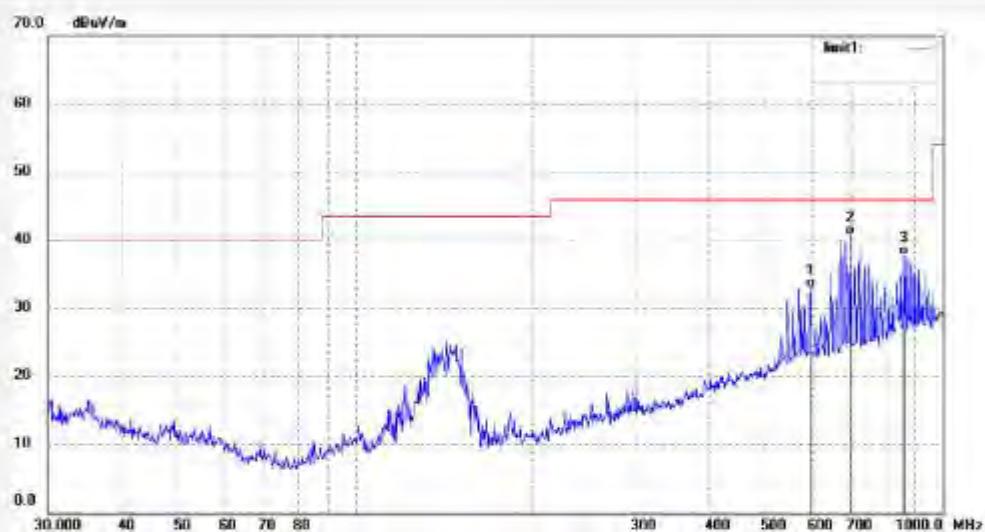
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3867
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2437MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11b



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	595.1327	36.01	-3.02	32.99	46.00	-13.01	QP			
2	694.4174	42.56	-1.88	40.68	46.00	-5.32	QP			
3	860.0352	36.81	0.86	37.67	46.00	-8.33	QP			



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Job No : Jan2015 #3607

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/11/20/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature: PEI

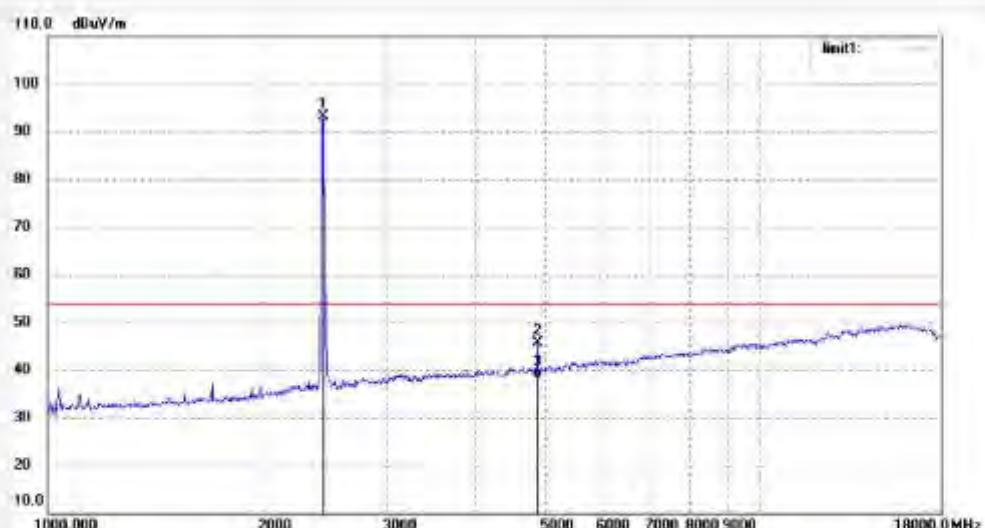
Mode: TX 2437MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11b



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	100.50	-7.36	93.14	/	/	peak			
2	4874.220	45.59	0.09	45.68	74.00	28.32	peak			
3	4874.220	37.97	0.09	38.06	54.00	-15.94	AVG			



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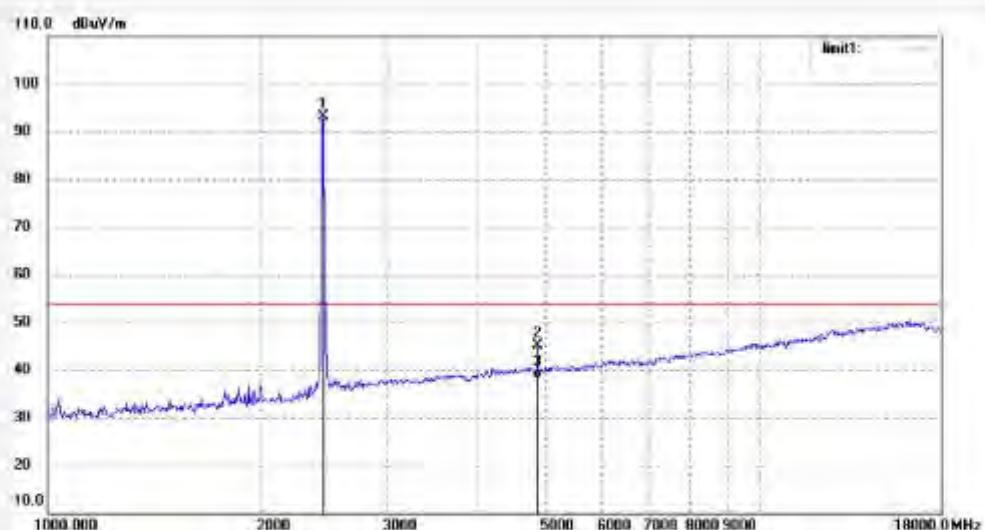
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No : Jan2015 #3608
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2437MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11b



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	100.58	-7.36	93.22	/	/	peak			
2	4874.223	45.00	0.09	45.09	74.00	-28.91	peak			
3	4874.223	38.12	0.09	38.21	54.00	-15.79	AVG			

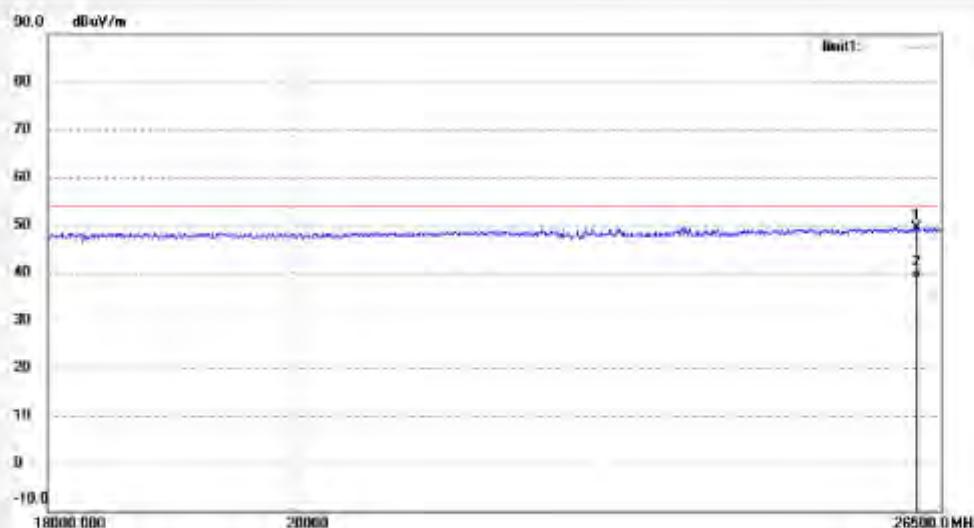


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
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Fax:+86-0755-26503396

Job No	lan2015 #3659	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(°C)/Hum.(%)	23 °C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2437MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11b		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26214.563	32.32	17.09	48.41	74.00	-24.59	peak			
2	26214.563	21.53	17.09	38.62	54.00	-15.38	AVG			

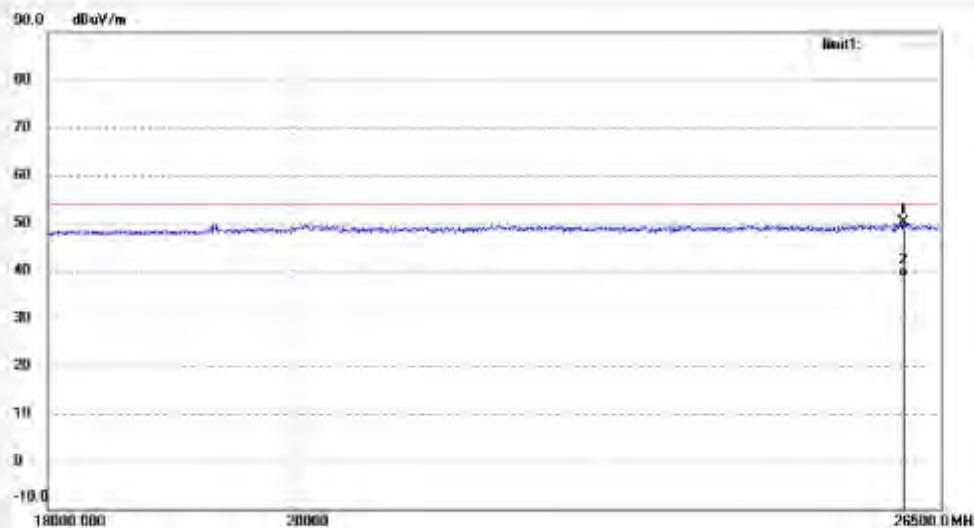


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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No	lan2015 #3660	Polarization	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 O / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2437MHz	Distance:	3m
Model	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11b		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26072.999	33.00	17.18	50.18	74.00	-23.82	peak			
2	26072.999	21.45	17.18	38.63	54.00	-15.37	Avg			



High channel



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Fax:+86-0755-26503396

Job No.: Jan2015 #3868

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/12/15/

Temp. (C) /Hum. (%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature:

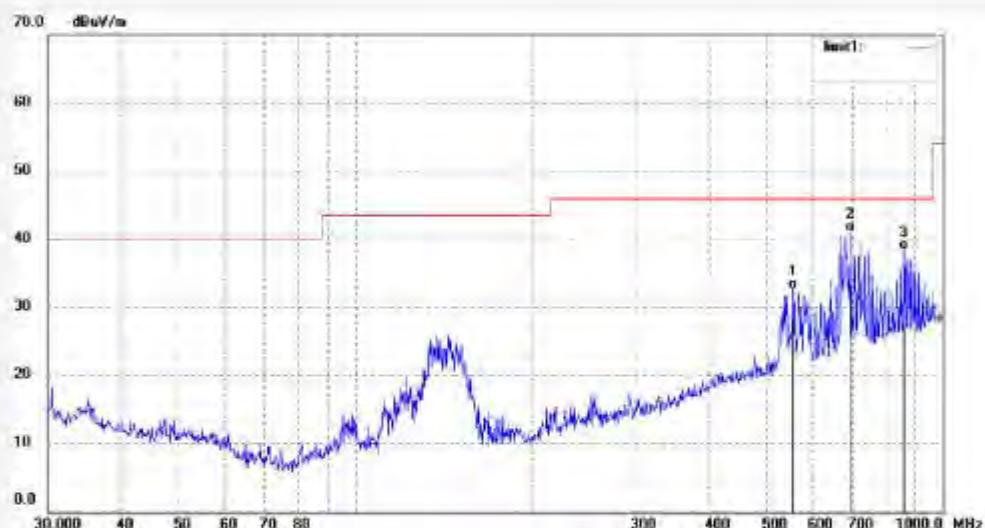
Mode: TX 2462MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11b



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	556.7744	36.07	-3.48	32.59	46.00	-13.41	QP			
2	694.4174	42.91	-1.88	41.03	46.00	-4.97	QP			
3	860.0352	37.52	0.86	38.38	46.00	-7.62	QP			



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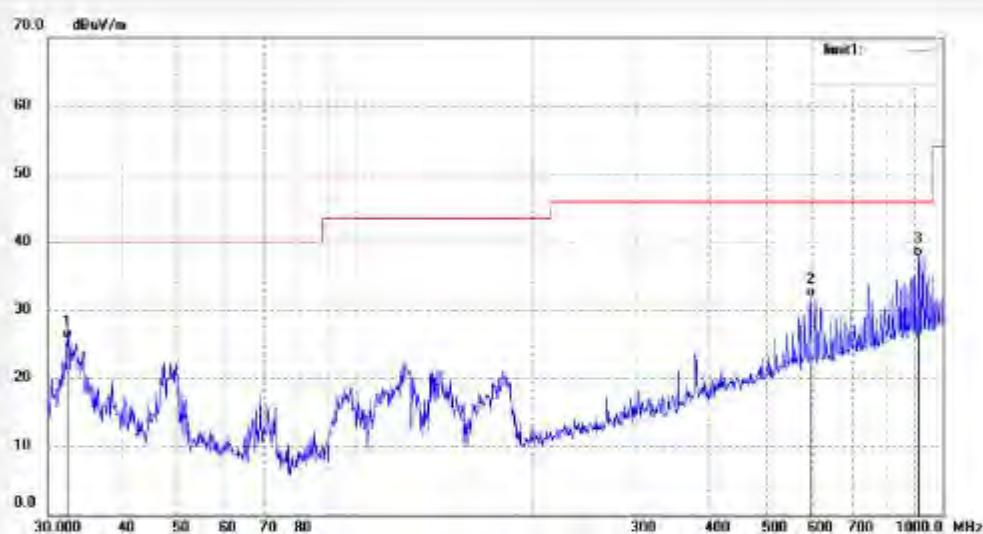
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3869
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2462MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11b



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.4059	34.61	-8.80	25.81	40.00	-14.19	QP			
2	595.1327	35.01	-3.02	31.99	46.00	-14.01	QP			
3	909.6666	36.47	1.34	37.81	46.00	-8.19	QP			



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Site: 2# Chamber

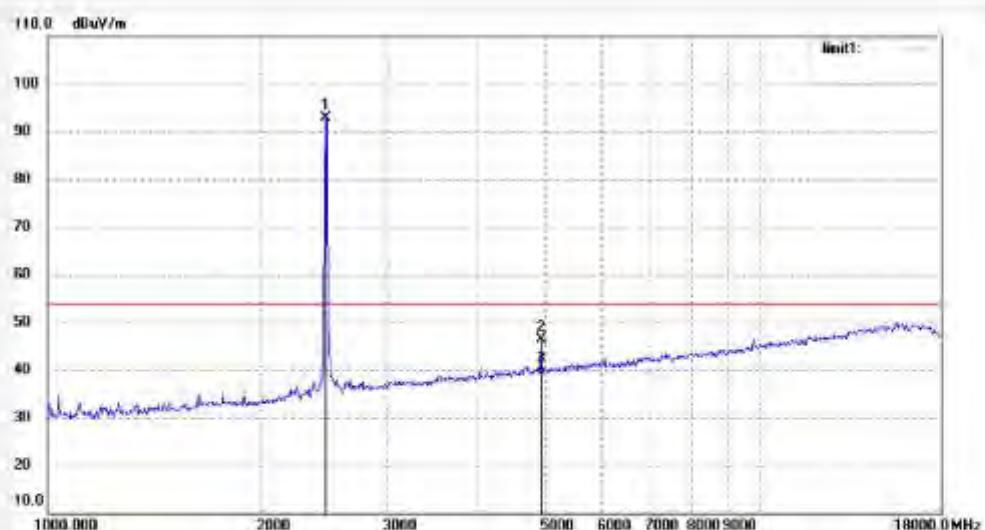
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No : Jan2015 #3609
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2462MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11b



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	100.35	-7.35	93.00	/	/	peak			
2	4924.239	45.93	0.34	46.27	74.00	-27.73	peak			
3	4924.239	38.47	0.34	38.81	54.00	-15.19	AVG			



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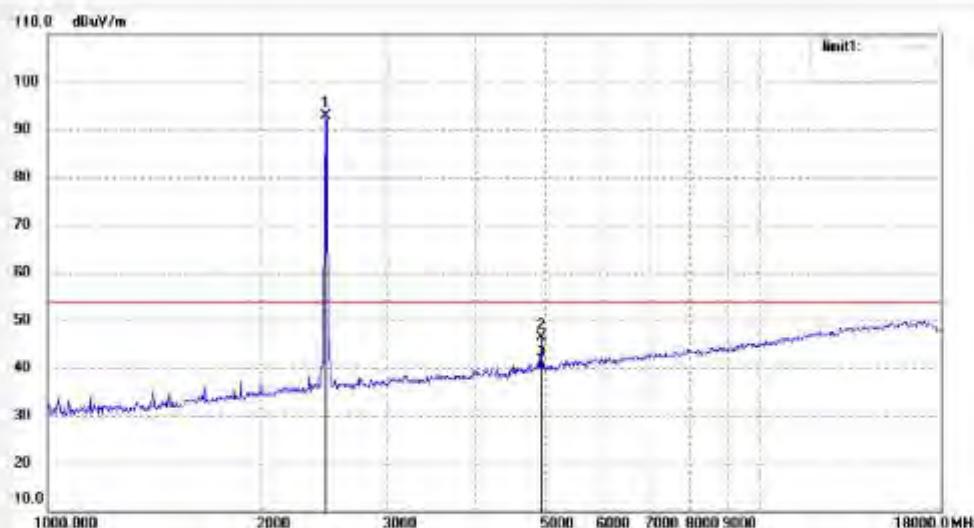
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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No :	lan2015 #3610	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/20/
Temp.(C) /Hum.(%)	23 C / 48 %	Time:	
EUT:	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2462MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11b		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	100.13	-7.35	92.78	/	/	peak			
2	4924.225	46.08	0.34	46.42	74.00	27.58	peak			
3	4924.225	39.41	0.34	39.75	54.00	-14.25	AVG			

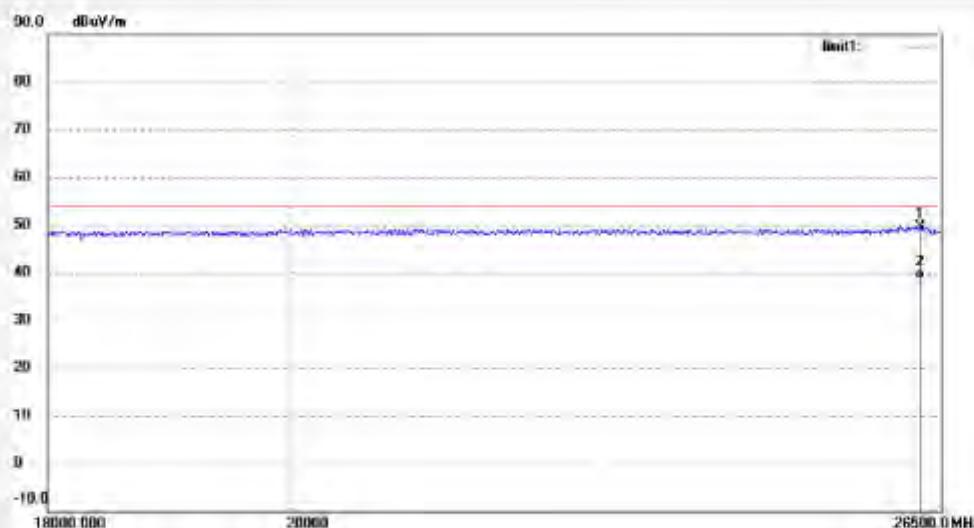


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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No	lan2015 #3661	Polarization	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 0 / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2462MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11b		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26255.151	32.61	17.06	49.67	74.00	-24.33	peak			
2	26255.151	21.64	17.06	38.70	54.00	-15.30	Avg			

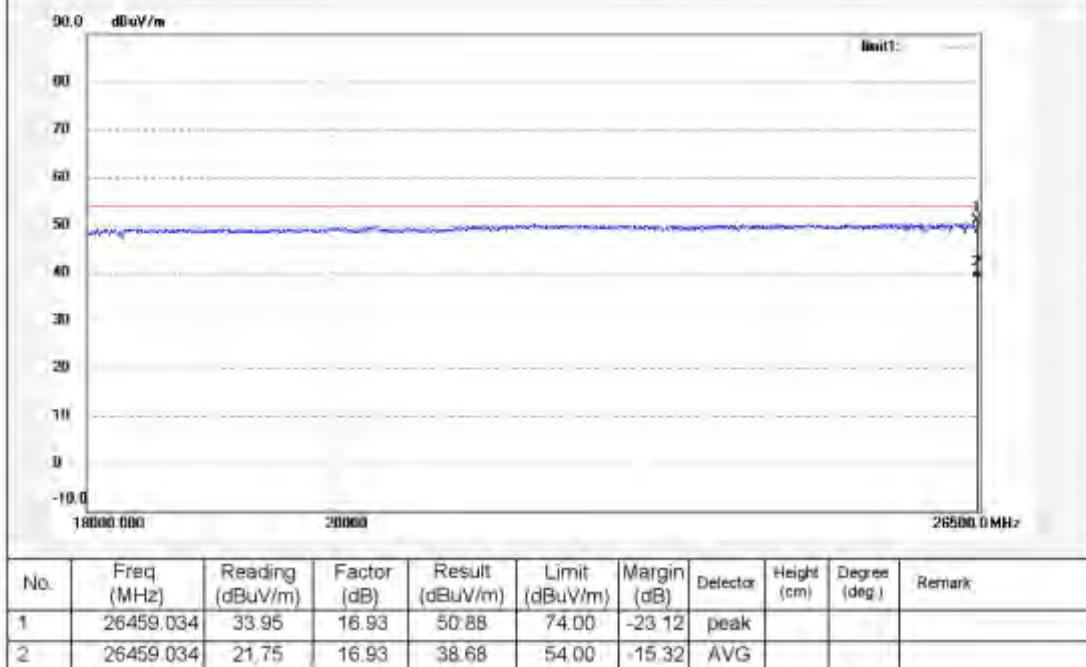


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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No	lan2015 #3682	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2462MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11b		



Appendix A.2: Radiated Spurious Emissions of 802.11 g mode Low channel

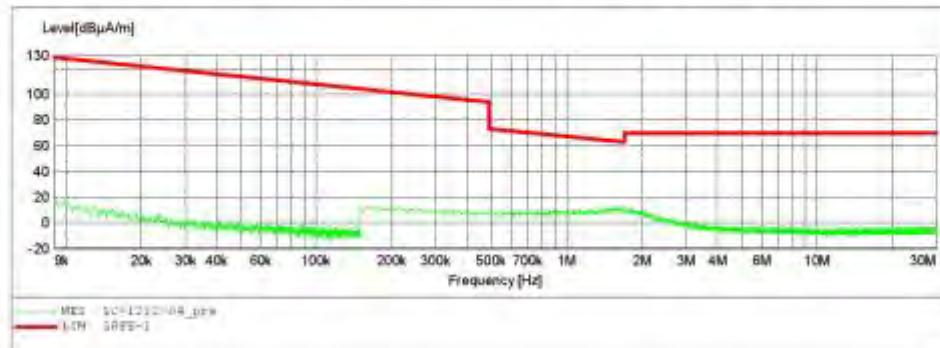
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Ceramic Heater M/N:DE-HTS3389
Manufacturer: LIANCHUANG
Operating Condition: TX 2412MHz
Test Site: 24 Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE_Fin"

Short Description		SUSI STD_VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	Transducer
5.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



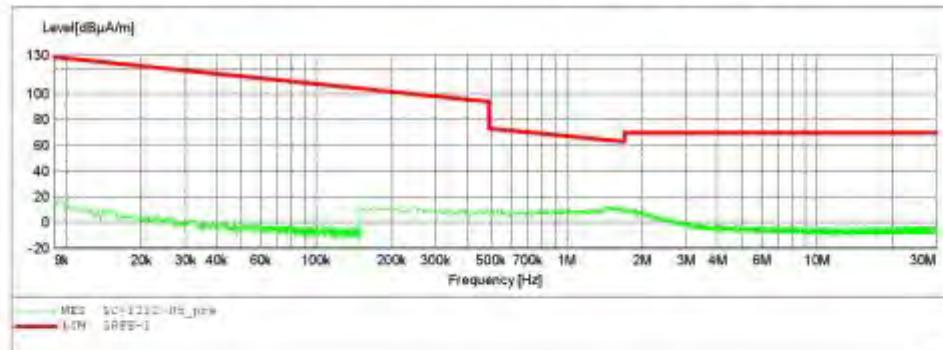
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

BUT: Ceramic Heater N/N:DE-HTS338B
Manufacturer: LIANCHUANG
Operating Condition: TX 2437MHz
Test Site: 24 Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE_Fin"

Short Description		SUSI STD VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



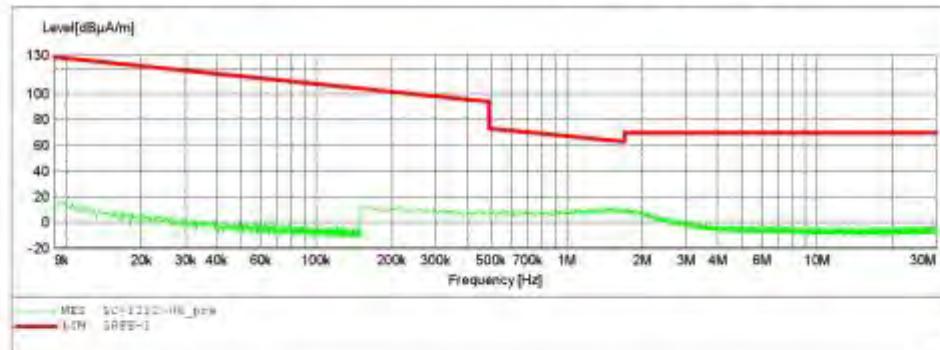
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

BUT: Ceramic Heater N/N:DE-HTS338B
Manufacturer: LIANCHUANG
Operating Condition: TX 2462MHz
Test Site: 24 Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE_Fin"

Short Description	Sub STD	VTERM2 1.70				
Start	Stop	Step	Detector	Measv.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M





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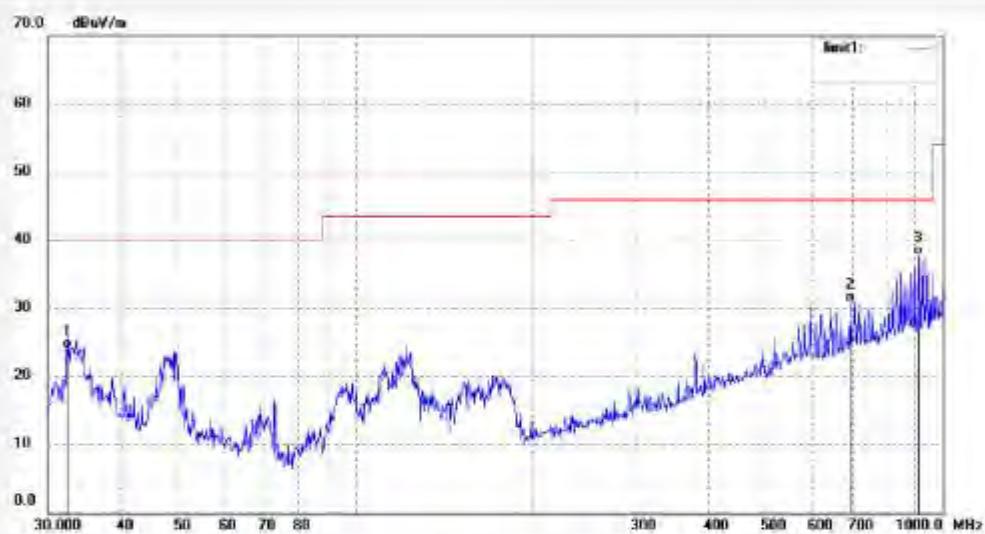
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3870
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2412MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11g



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.4059	32.86	-8.80	24.06	40.00	-15.94	QP			
2	694.4174	32.80	-1.88	30.92	46.00	-15.08	QP			
3	909.6666	36.43	1.34	37.77	46.00	-8.23	QP			



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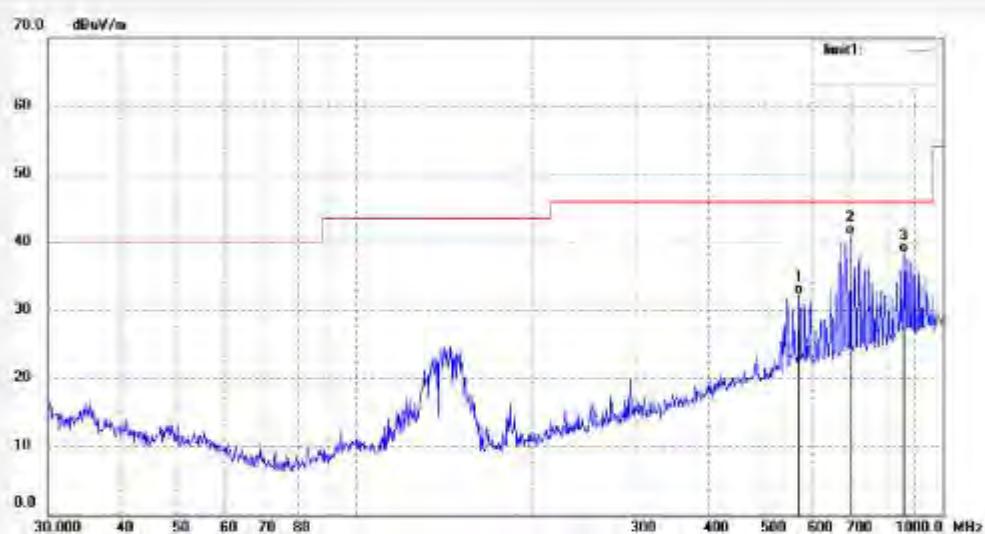
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3871
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2412MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11g



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	568.6127	35.63	-3.34	32.29	46.00	-13.71	QP			
2	694.4174	42.92	-1.88	41.04	46.00	-4.96	QP			
3	860.0352	37.49	0.86	38.35	46.00	-7.65	QP			



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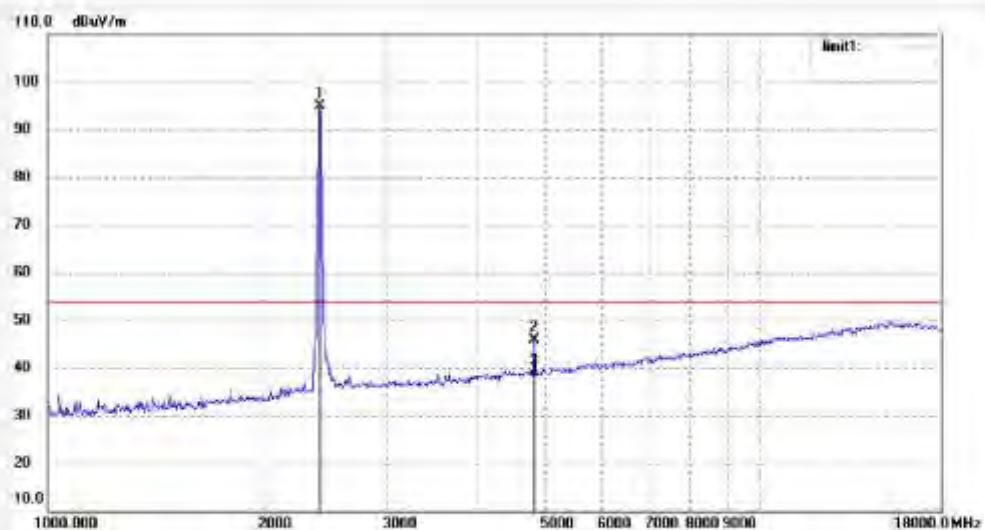
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No : IAN2015 #3613
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2412MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11g



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	102.29	-7.43	94.86	/	/	peak			
2	4824.218	45.99	-0.19	45.80	74.00	-28.20	peak			
3	4824.218	38.14	-0.19	37.95	54.00	-16.05	AVG			



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Fax:+86-0755-26503396

Job No : Jan2015 #3614

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/11/20/

Temp.(C) /Hum.(%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature: PEI

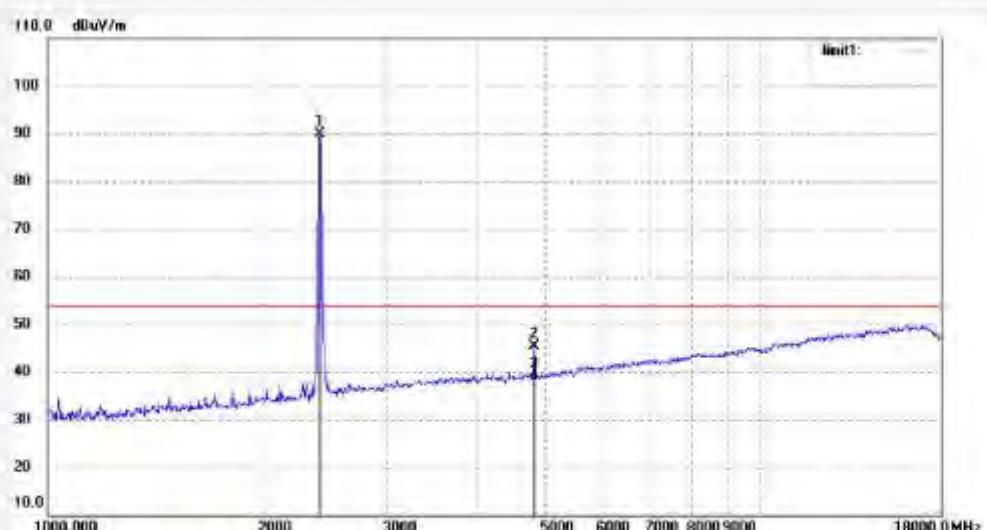
Mode: TX 2412MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11g



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	97.43	-7.43	90.00	74.00	16.00	peak			
2	4824.213	45.49	-0.19	45.30	74.00	-28.70	peak			
3	4824.213	38.43	-0.19	38.24	54.00	-15.76	AVG			

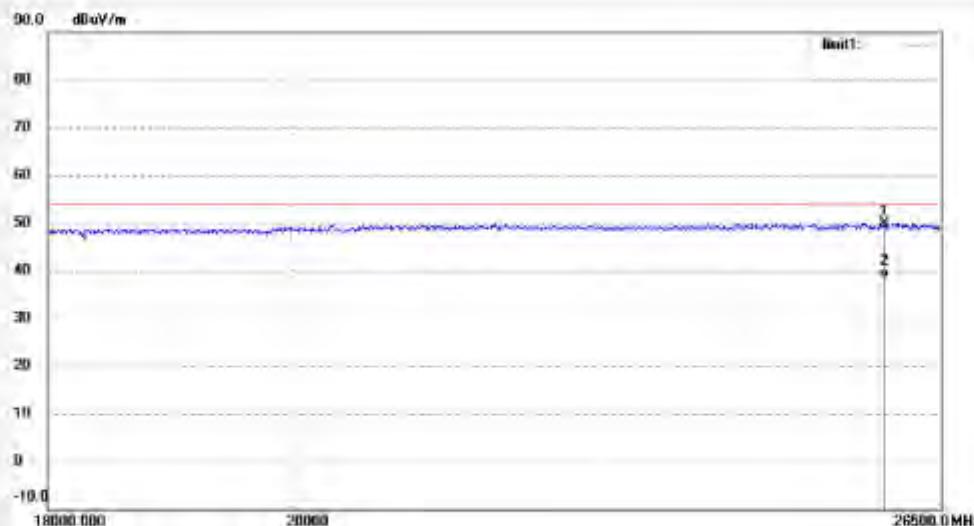


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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No	lan2015 #3683	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(°C)/Hum.(%)	23 °C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2412MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11g		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25852.085	32.66	17.33	49.99	74.00	-24.01	peak			
2	25852.085	21.05	17.33	38.38	54.00	-15.62	Avg			

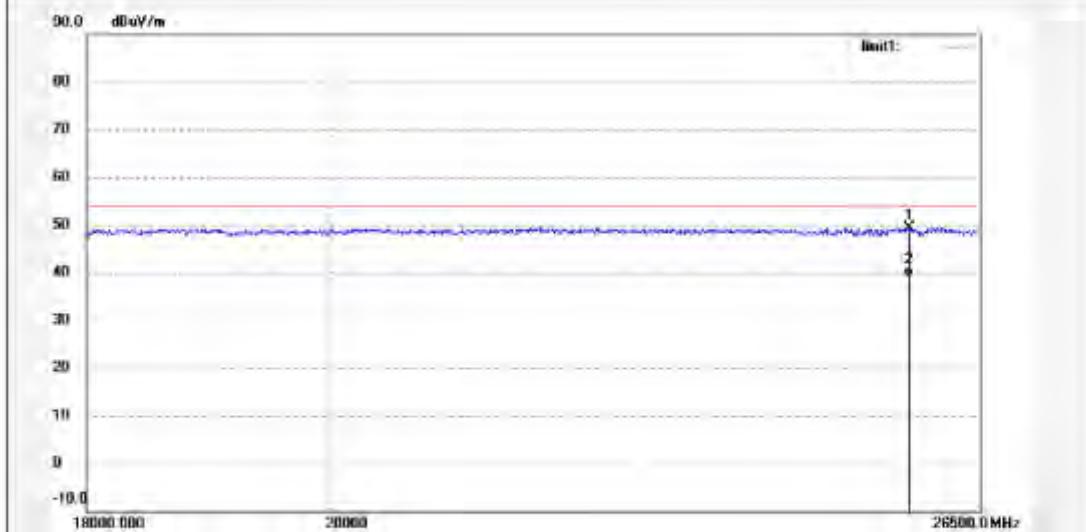


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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No	lan2015 #3664	Polarization	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(°C)/Hum.(%)	23 °C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2412MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11g		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25692.597	32.03	17.44	48.47	74.00	-24.53	peak			
2	25692.597	21.72	17.44	39.16	54.00	-14.84	Avg			

Middle channel



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Fax:+86-0755-26503396

Job No.: Jan2015 #3872

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/12/15/

Temp. (°C)/Hum.(%) 23 °C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature:

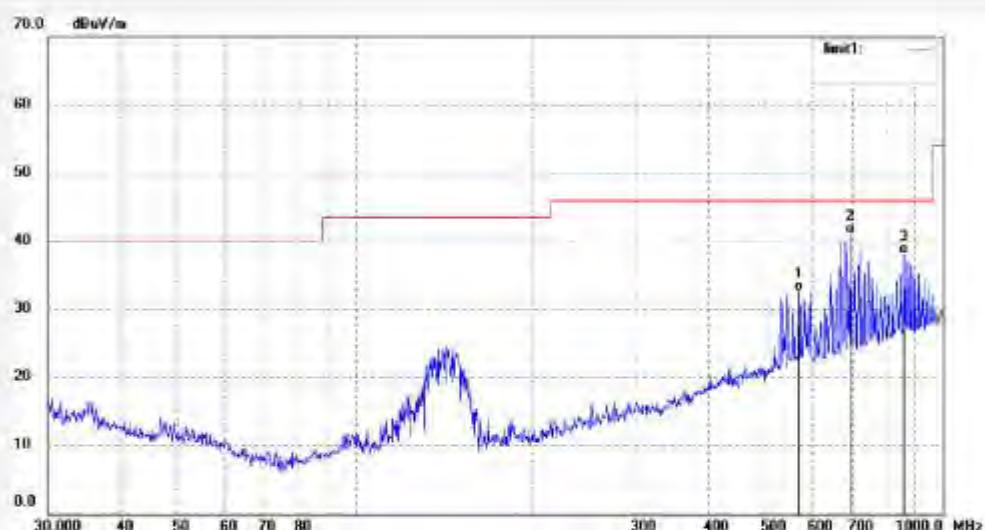
Mode: TX 2437MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11g



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	568.6127	35.92	-3.34	32.58	46.00	-13.42	QP			
2	696.8567	42.88	-1.84	41.04	46.00	-4.96	QP			
3	860.0352	37.25	0.86	38.11	46.00	-7.89	QP			



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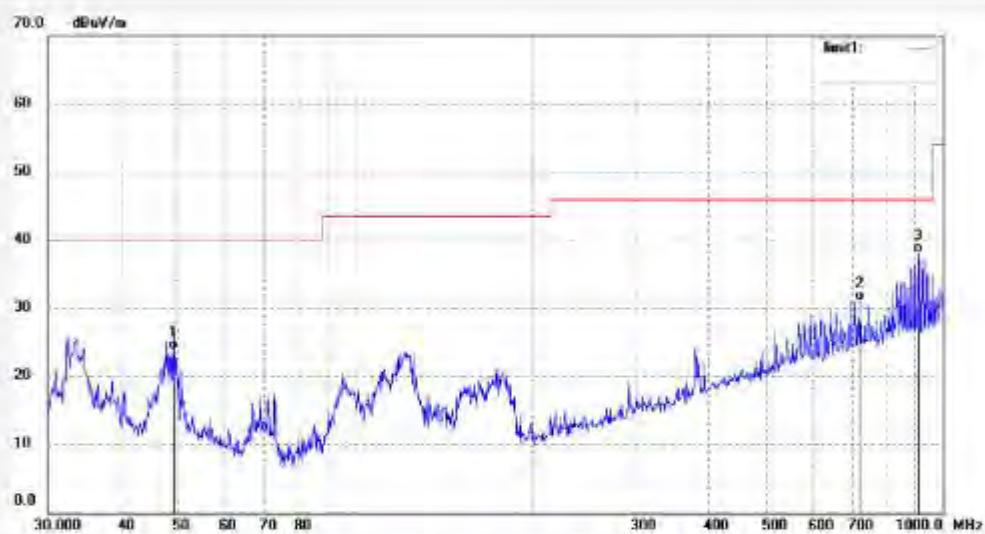
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3873
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2437MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11g



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	49.0144	35.76	-11.87	23.89	40.00	-16.11	QP			
2	721.7259	32.50	-1.46	31.04	46.00	-14.96	QP			
3	909.6666	36.75	1.34	38.09	46.00	-7.91	QP			



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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No : Jan2015 #3617

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/11/20/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature: PEI

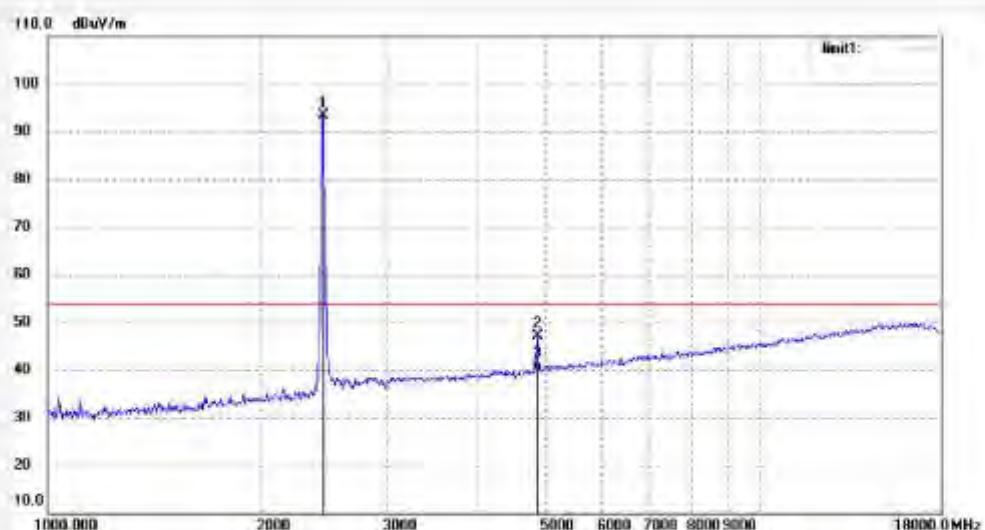
Mode: TX 2437MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11g



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	100.83	-7.36	93.47	/	/	peak			
2	4874.233	47.11	0.09	47.20	74.00	-26.80	peak			
3	4874.233	39.72	0.09	39.81	54.00	-14.19	AVG			

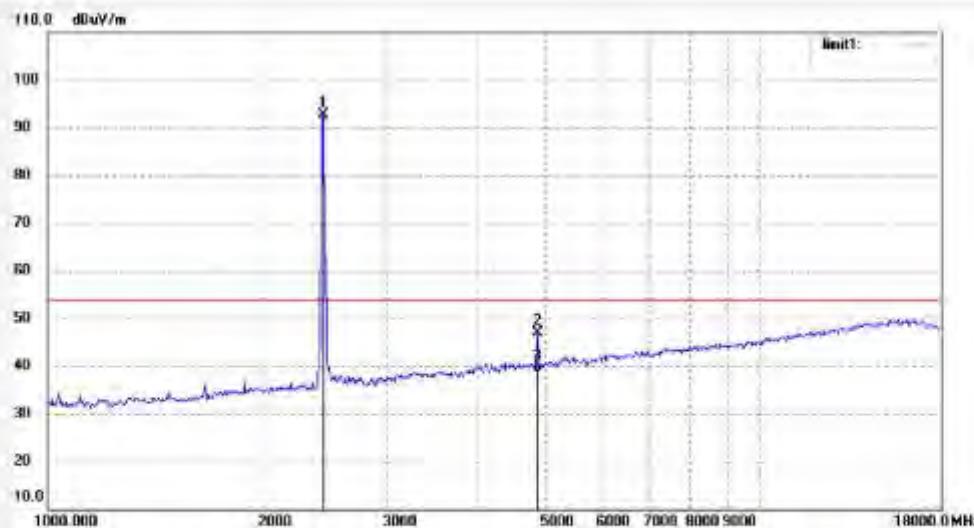


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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No : Ian2015 #3618	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/11/20/
Temp.(C) /Hum.(%) 23 C / 48 %	Time:
EUT: Ceramic Heater	Engineer Signature: PEI
Mode: TX 2437MHz	Distance: 3m
Model: DF-HT5338P	
Manufacturer: LIANCHUANG	
Note: 802.11g	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	100.06	-7.36	92.70	/	/	peak			
2	4874.311	46.76	0.09	46.85	74.00	27.15	peak			
3	4874.311	38.45	0.09	38.54	54.00	-15.46	AVG			



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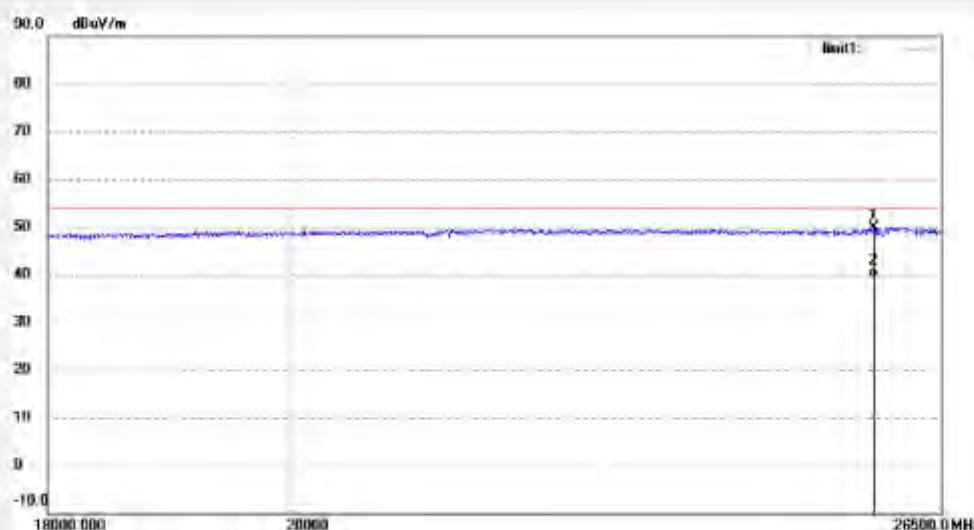
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No	lan2015 #3685	Polarization	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2437MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11g		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25742.331	32.51	17.40	48.91	74.00	-24.09	peak			
2	25742.331	21.86	17.40	39.26	54.00	-14.74	Avg			

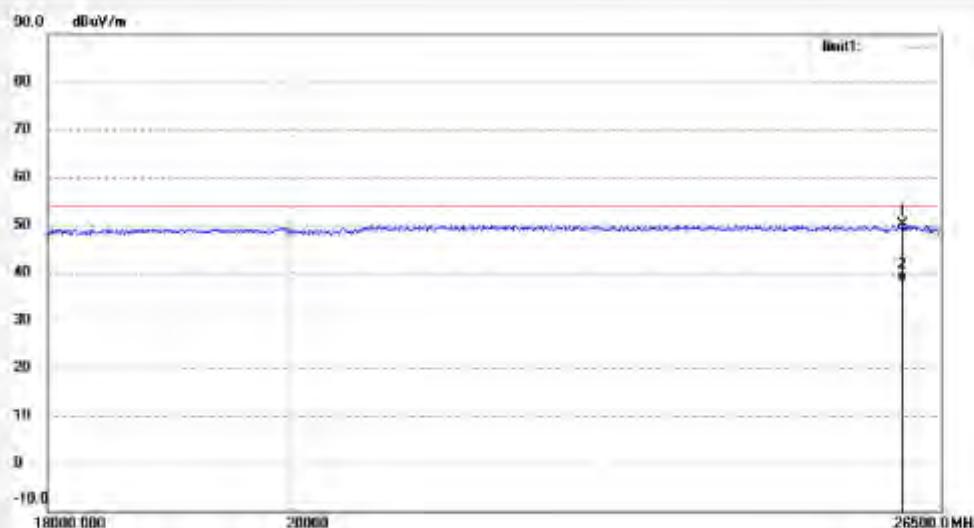


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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3666	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2437MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11g		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26062.917	32.88	17.19	50.07	74.00	-23.93	peak			
2	26062.917	20.90	17.19	38.09	54.00	-15.91	Avg			



High channel



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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Jan2015 #3874

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/12/15/

Temp. (°C)/Hum.(%) 23 °C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature:

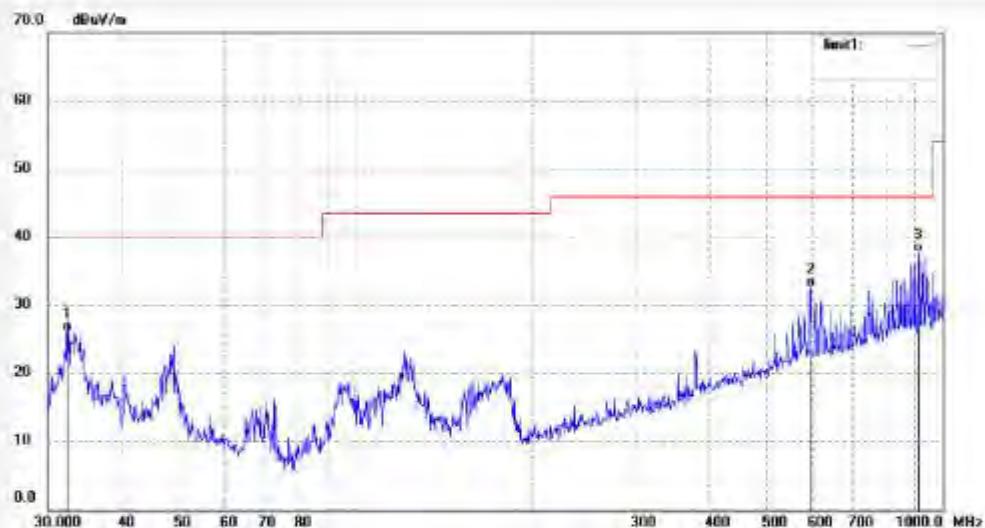
Mode: TX 2462MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11g



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.4059	34.68	-8.80	26.08	40.00	-13.92	QP			
2	595.1327	35.60	-3.02	32.58	46.00	-13.42	QP			
3	909.6666	36.32	1.34	37.66	46.00	-8.34	QP			



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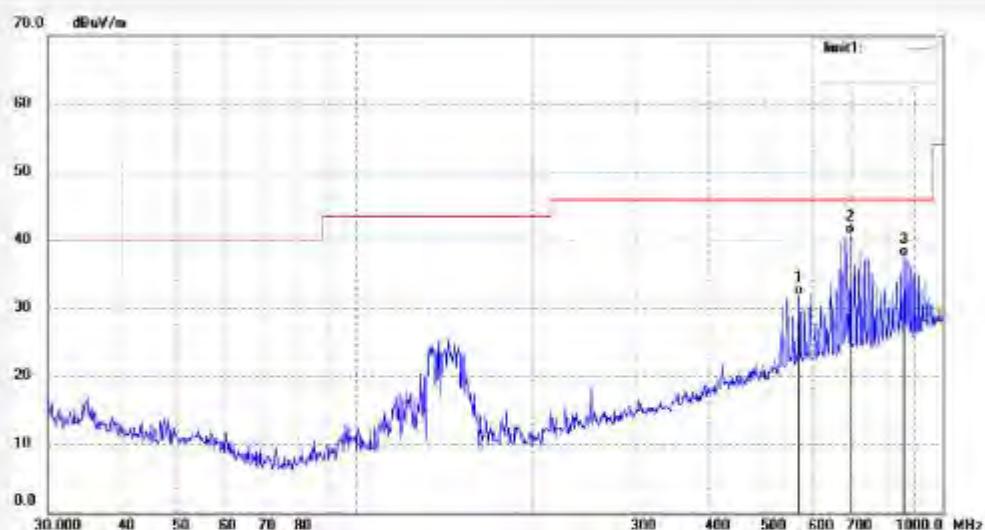
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3875
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2462MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11g



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	568.6127	35.27	-3.34	31.93	46.00	-14.07	QP			
2	694.4174	42.78	-1.88	40.90	46.00	-5.10	QP			
3	860.0352	36.63	0.86	37.49	46.00	-8.51	QP			



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

Site: 2# Chamber

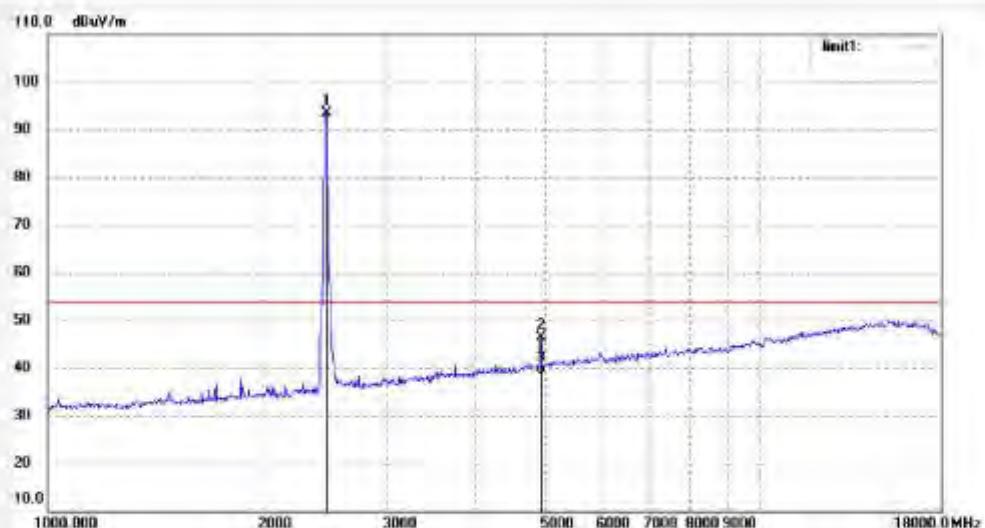
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No : IAN2015 #3619
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C) / Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2462MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11g



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	100.78	-7.35	93.43	/	/	peak			
2	4924.247	46.09	0.34	46.43	74.00	-27.57	peak			
3	4924.247	38.33	0.34	38.67	54.00	-15.33	AVG			

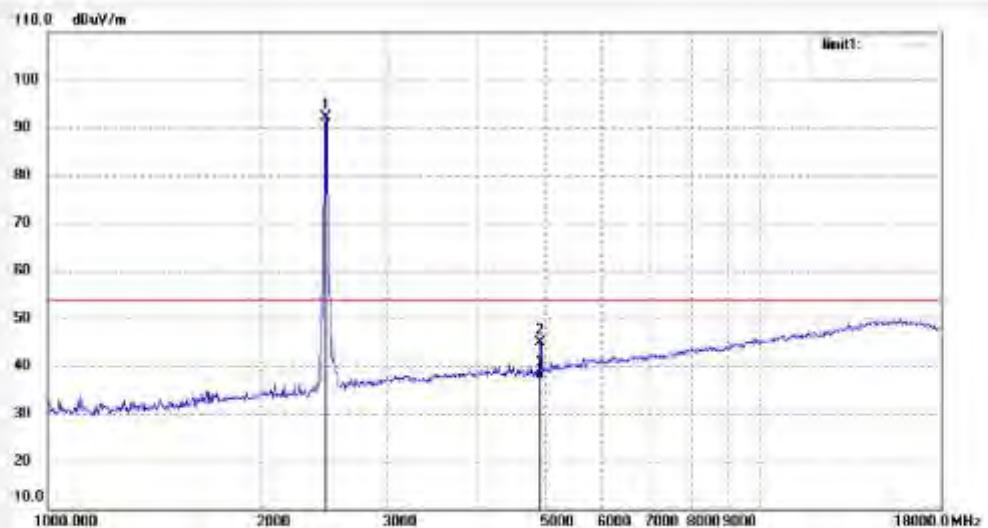


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No : Ian2015 #3620	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/11/20/
Temp.(C) /Hum.(%) 23 C / 48 %	Time:
EUT: Ceramic Heater	Engineer Signature: PEI
Mode: TX 2462MHz	Distance: 3m
Model: DF-HT5338P	
Manufacturer: LIANCHUANG	
Note: 802.11g	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	99.43	-7.35	92.08	/	/	peak			
2	4924.235	44.64	0.34	44.98	74.00	-29.02	peak			
3	4924.235	36.85	0.34	37.19	54.00	-16.81	AVG			

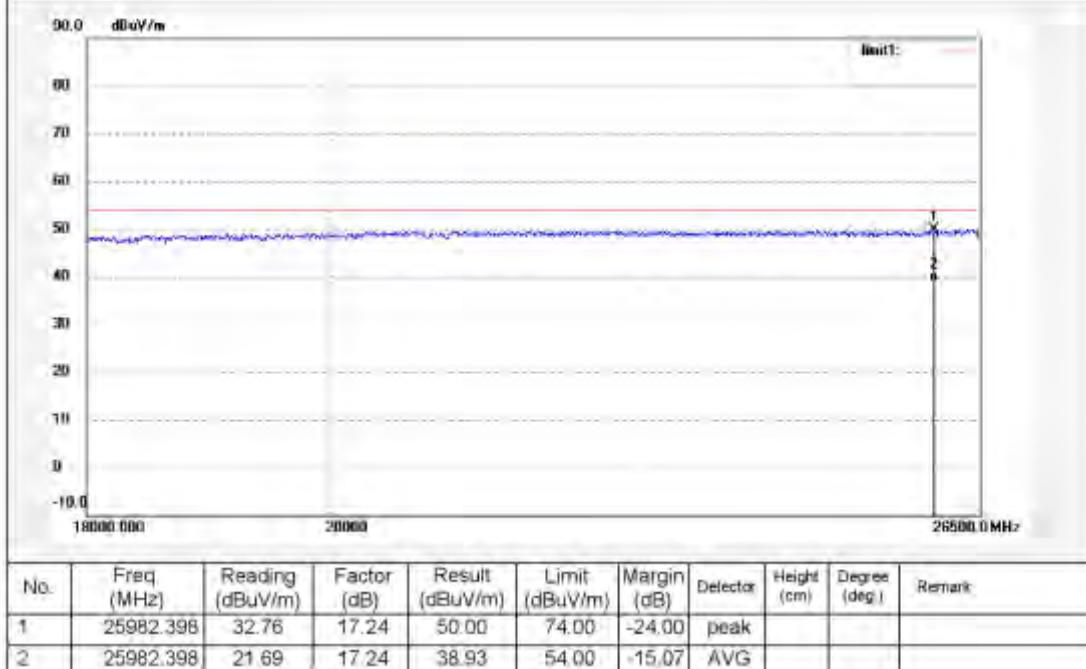


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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3687	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2462MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11g		





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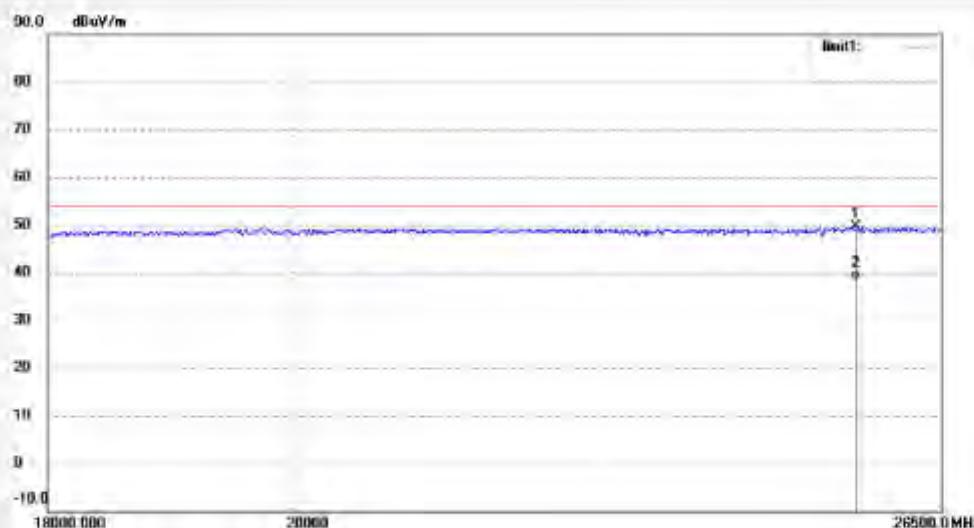
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No	lan2015 #3688	Polarization	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2462MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11g		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25534.093	32.16	17.54	48.70	74.00	-24.30	peak			
2	25534.093	20.76	17.54	38.30	54.00	-15.70	AVG			

Appendix A.3: Radiated Spurious Emissions of 802.11 n(HT20) mode Low channel

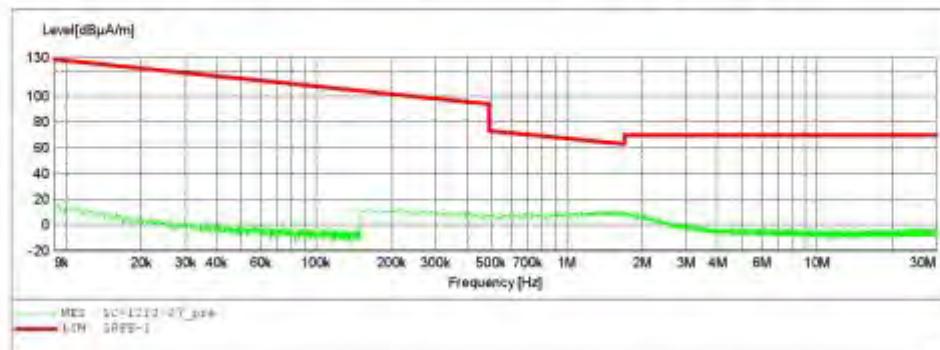
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Ceramic Heater M/N:DE-HTS3389
Manufacturer: LIANCHUANG
Operating Condition: TX 2412MHz
Test Site: 24 Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE_Fin"

Short Description	SUB_STD_VTERM2_1.70					
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	Transducer
5.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



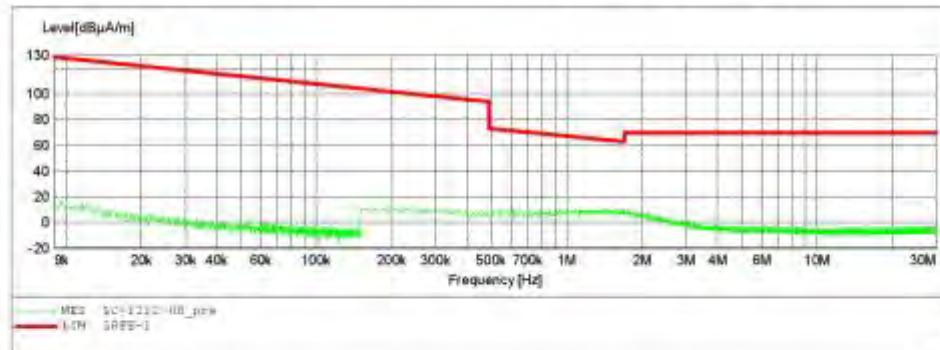
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

BUT: Ceramic Heater N/N:DE-HTS338B
Manufacturer: LIANCHUANG
Operating Condition: TX 2437MHz
Test Site: 24 Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE_Fin"

Short Description	Sub STD	VTERM2 1.70				
Start	Stop	Step	Detector	Measv.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



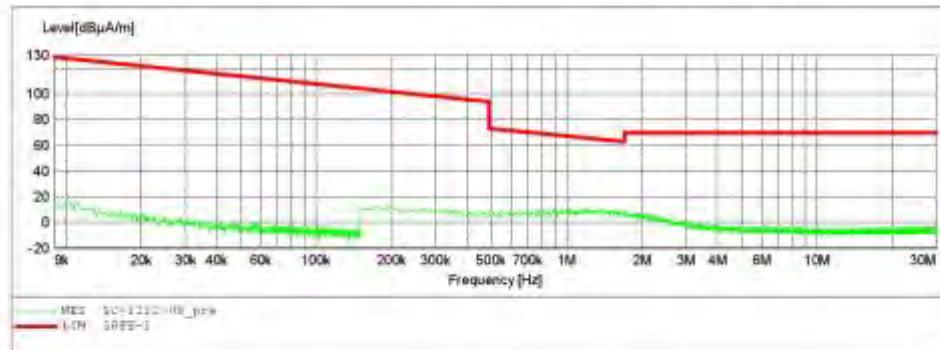
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

BUT: Ceramic Heater N/N:DE-HTS338B
Manufacturer: LIANCHUANG
Operating Condition: TX 2462MHz
Test Site: 24 Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE_Fin"

Short Description	Sub STD	VTERM2 1.70				
Start	Stop	Step	Detector	Measv.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M





ACCURATE TECHNOLOGY CO., LTD.

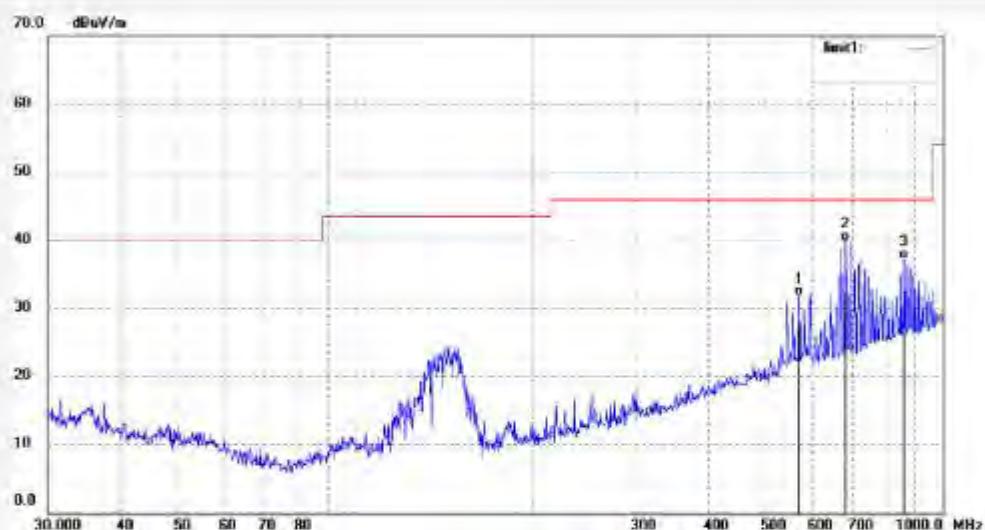
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3876
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2412MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n HT20



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	568.6127	35.13	-3.34	31.79	46.00	-14.21	QP			
2	682.3484	41.74	-2.00	39.74	46.00	-6.26	QP			
3	860.0352	36.41	0.86	37.27	46.00	-8.73	QP			



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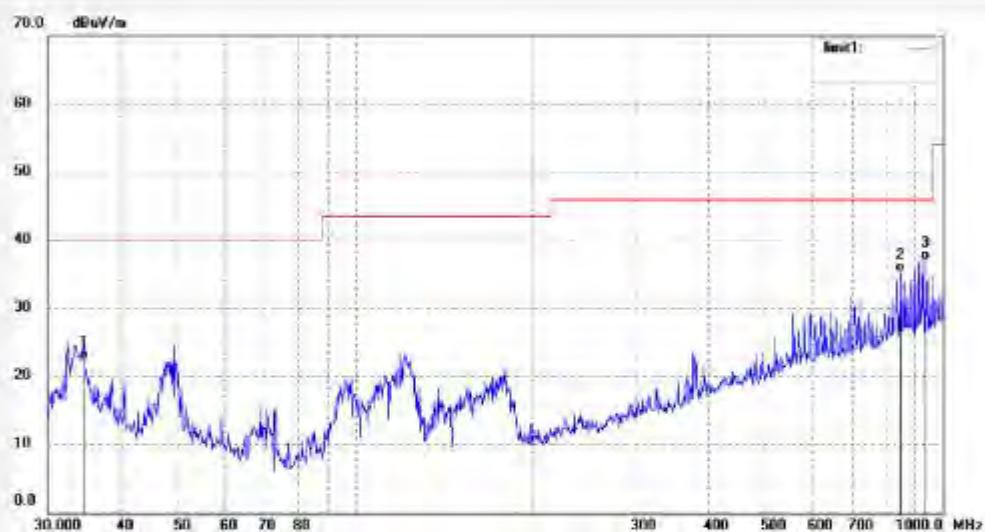
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3877
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2412MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n HT20



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.5172	31.92	-9.44	22.48	40.00	-17.52	QP			
2	848.0562	34.60	0.70	35.30	46.00	-10.70	QP			
3	935.5462	35.12	1.86	36.98	46.00	-9.02	QP			



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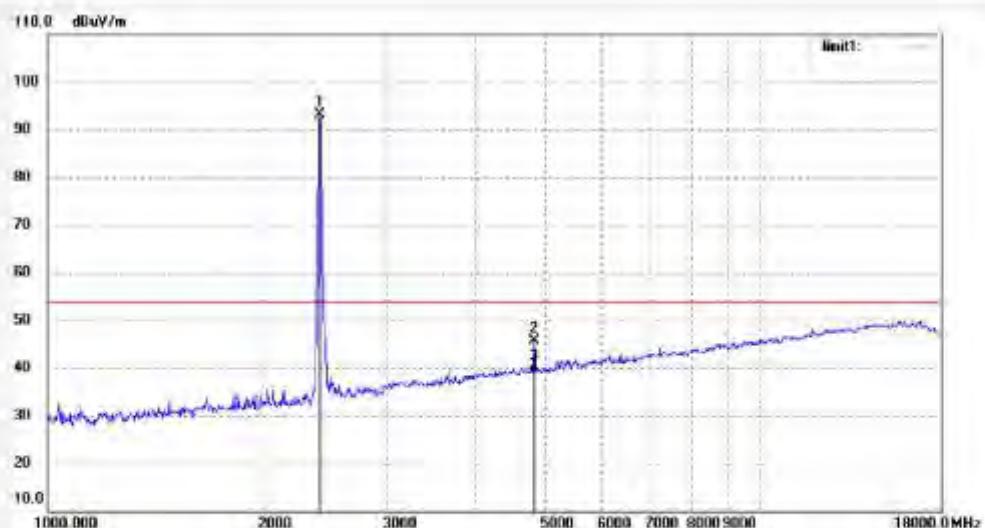
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No : IAN2015 #3623
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2412MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	100.66	-7.43	93.23	74.00	28.45	peak			
2	4824.223	45.74	-0.19	45.55	74.00	-28.45	peak			
3	4824.223	38.97	-0.19	38.78	54.00	-15.22	AVG			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No : Jan2015 #3624

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/11/20/

Temp.(C) /Hum.(%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature: PEI

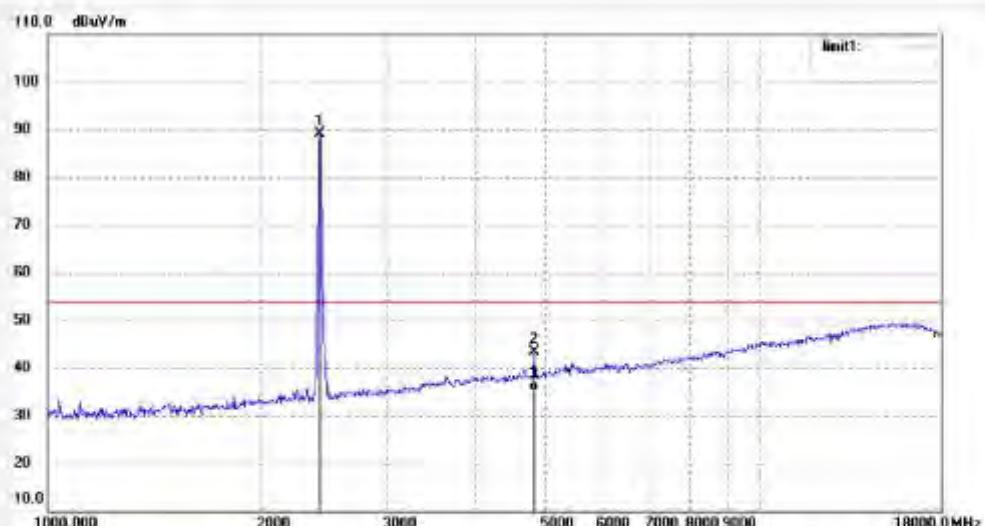
Mode: TX 2412MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	96.68	-7.43	89.25	/	/	peak			
2	4824.246	43.57	-0.19	43.38	74.00	-30.62	peak			
3	4824.246	35.36	-0.19	35.17	54.00	-18.83	AVG			

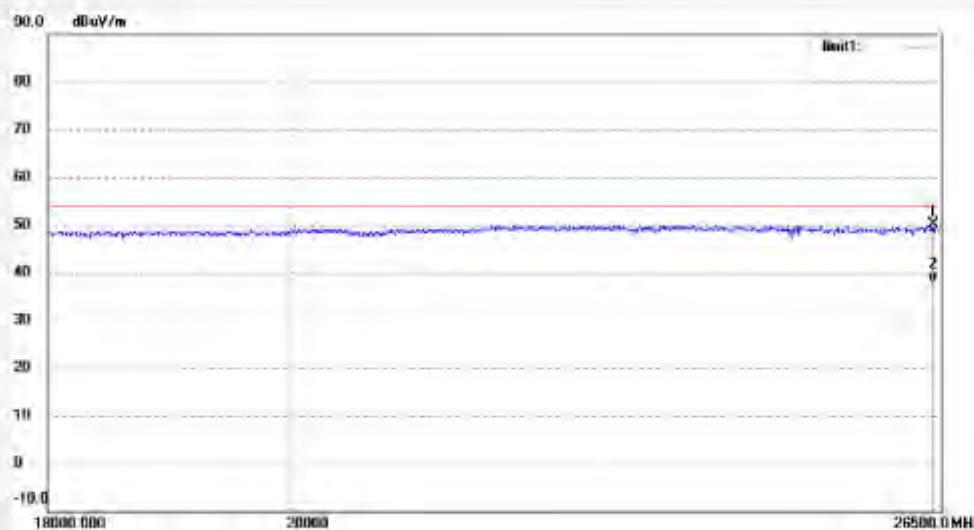


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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3669	Polarization	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(°C)/Hum.(%)	23 °C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2412MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11n HT20		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26407.915	33.21	16.96	50.17	74.00	-23.83	peak			
2	26407.915	21.09	16.96	38.05	54.00	-15.95	Avg			

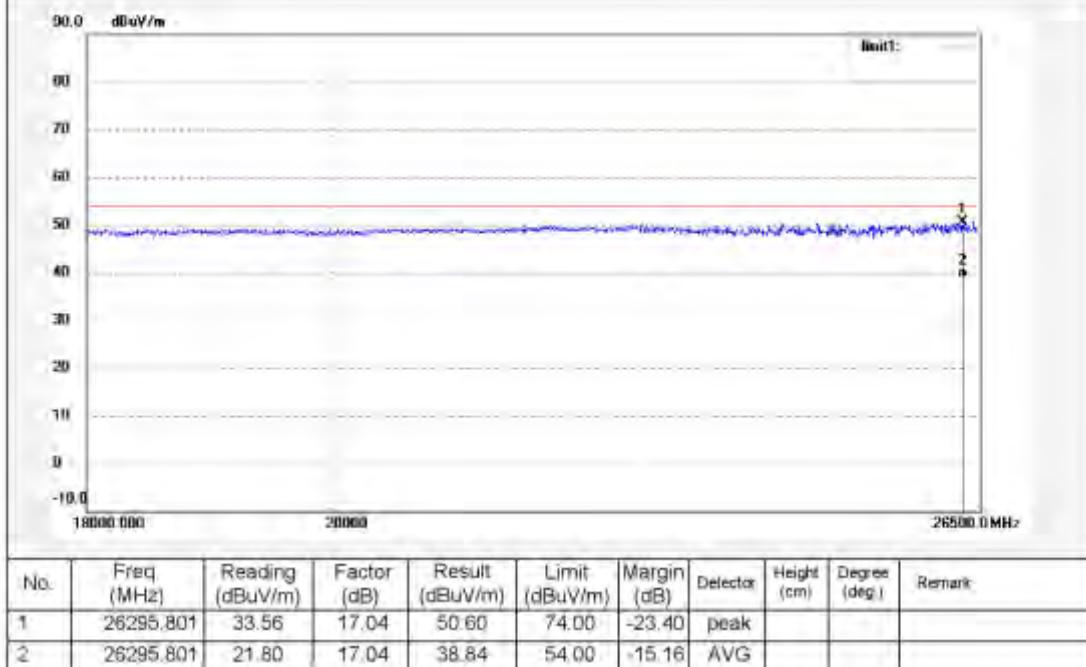


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3670	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2412MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11n HT20		





Middle channel



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: IAN2015 #3878

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/12/15/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature:

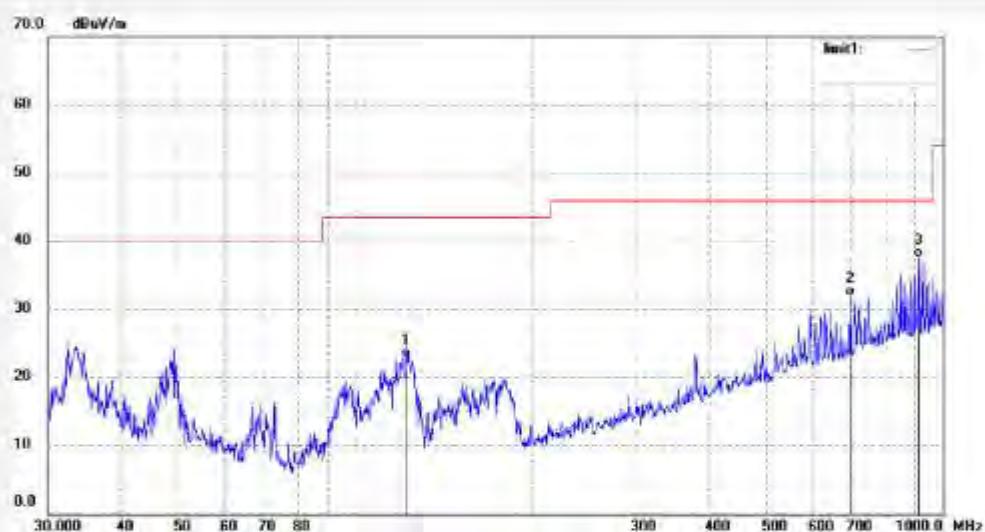
Mode: TX 2437MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11n HT20



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	122.4038	35.98	-13.08	22.90	43.50	-20.60	QP			
2	694.4174	33.87	-1.88	31.99	46.00	-14.01	QP			
3	909.6666	36.11	1.34	37.45	46.00	-8.55	QP			



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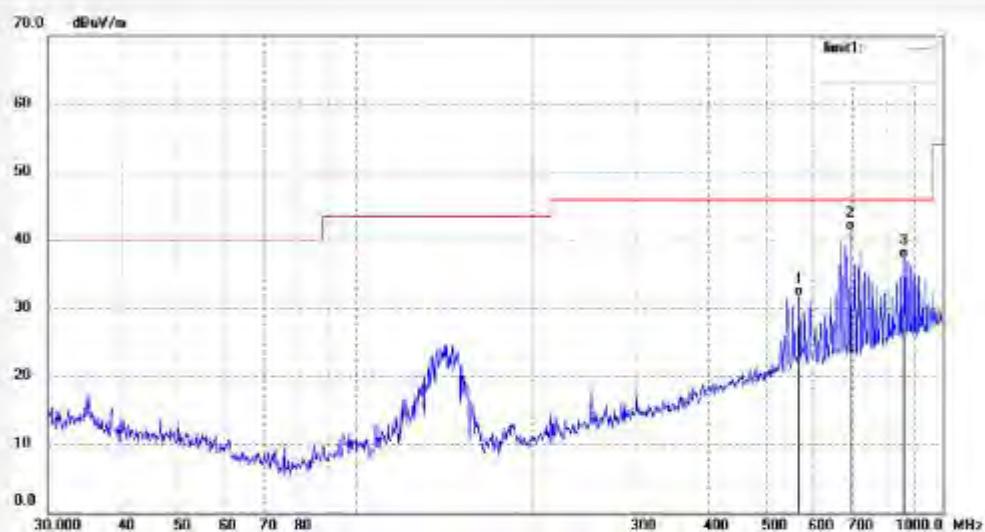
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3879
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2437MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n HT20



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	568.6127	35.19	-3.34	31.85	46.00	-14.15	QP			
2	694.4174	43.24	-1.88	41.36	46.00	-4.64	QP			
3	860.0352	36.45	0.86	37.31	46.00	-8.69	QP			



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

Site: 2# Chamber

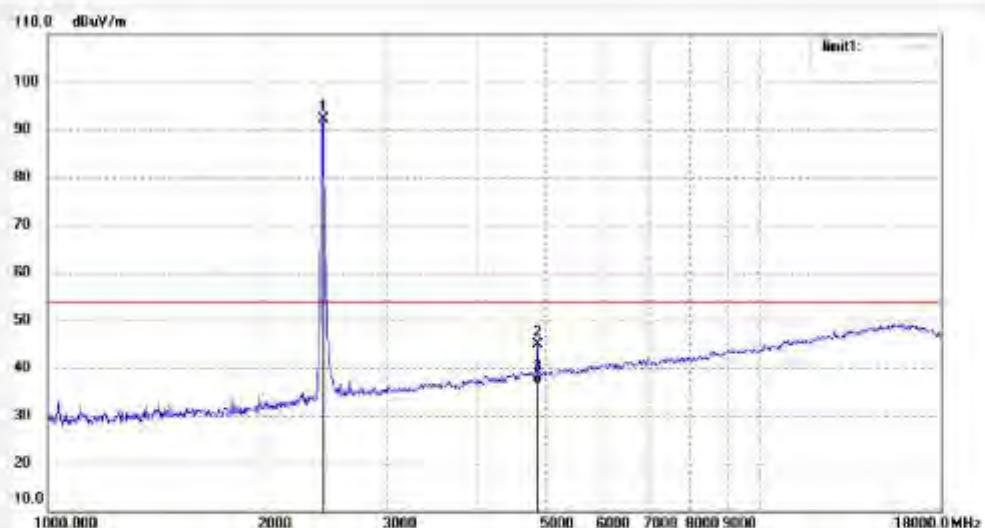
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No : IAN2015 #3627
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2437MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	99.54	-7.36	92.18	/	/	peak			
2	4874.219	44.69	0.09	44.78	74.00	29.22	peak			
3	4874.219	36.44	0.09	36.53	54.00	-17.47	AVG			



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Fax:+86-0755-26503396

Job No : IAN2015 #3628

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/11/20/

Temp.(C) /Hum.(%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature: PEI

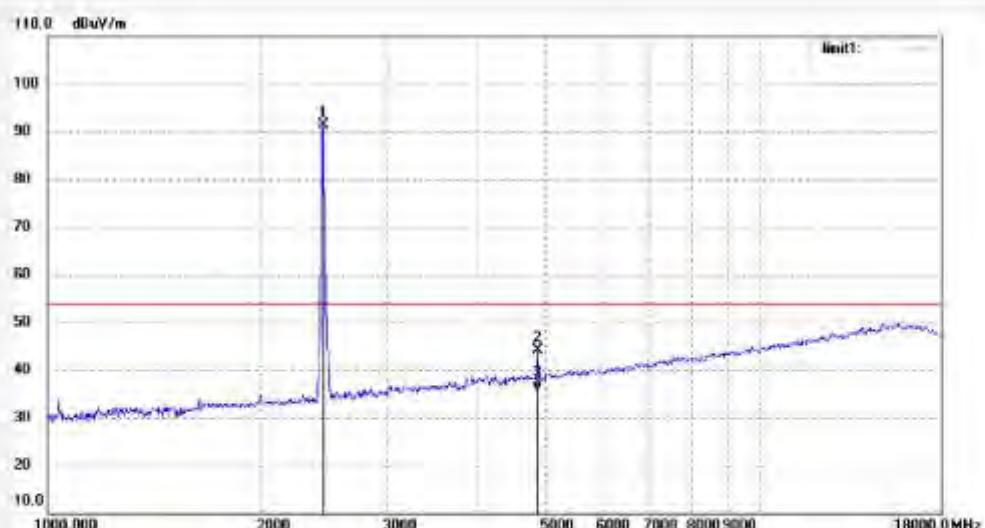
Mode: TX 2437MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	98.80	-7.36	91.44	/	/	peak			
2	4874.235	43.97	0.09	44.06	74.00	29.94	peak			
3	4874.235	35.79	0.09	35.88	54.00	-18.12	AVG			

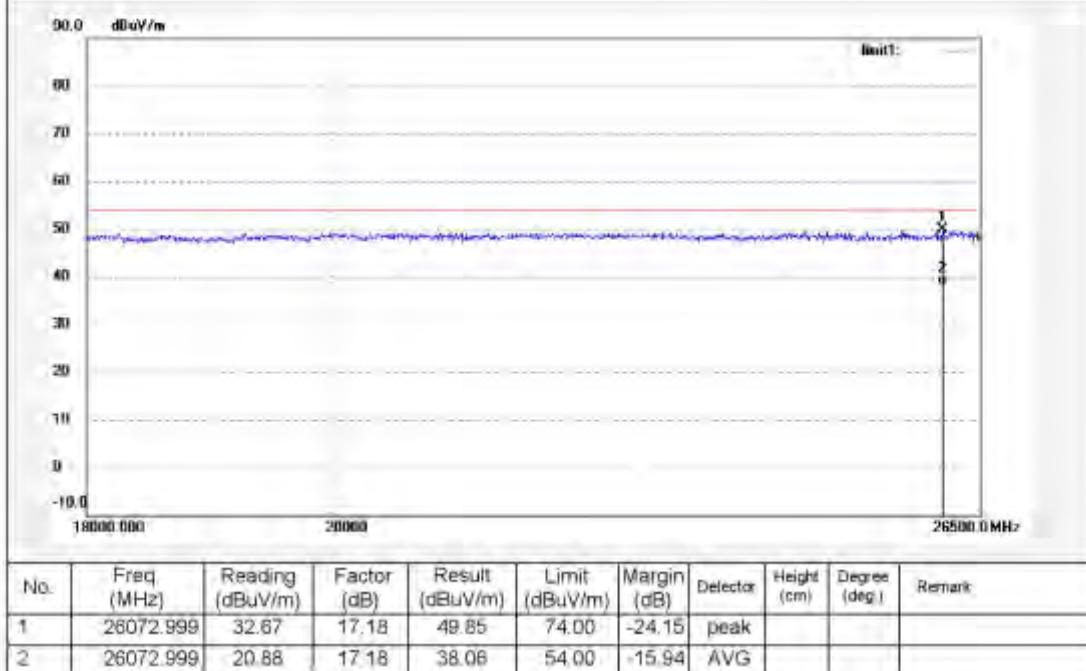


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3671	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 0 / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2437MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11n HT20		



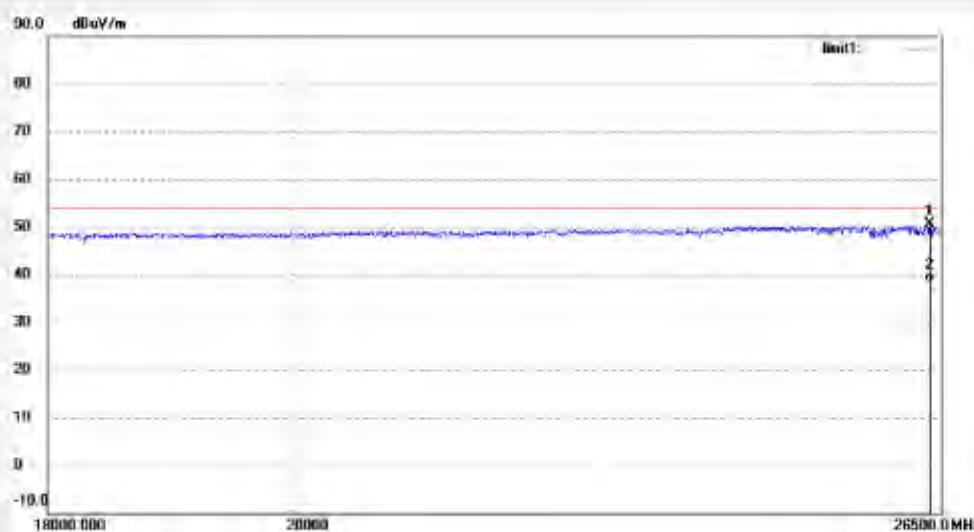


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3672	Polarization	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(°C)/Hum.(%)	23 °C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2437MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11n HT20		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26367.091	33.52	16.99	50.51	74.00	-23.49	peak			
2	26367.091	21.48	16.99	38.47	54.00	-15.53	AVG			

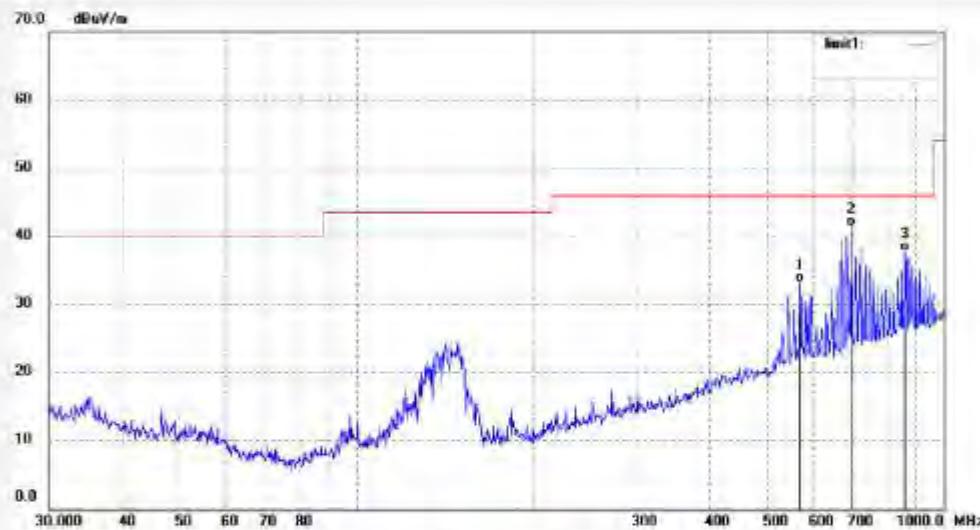


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.:	Ian2015 #3880	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/12/15/
Temp. (C)/Hum. (%)	23 C / 48 %	Time:	
EUT:	Ceramic Heater	Engineer Signature:	
Mode:	TX 2462MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11n HT20		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	568.6127	36.45	-3.34	33.11	46.00	-12.89	QP			
2	694.4174	43.19	-1.88	41.31	46.00	-4.69	QP			
3	860.0352	36.91	0.86	37.77	46.00	-8.23	QP			



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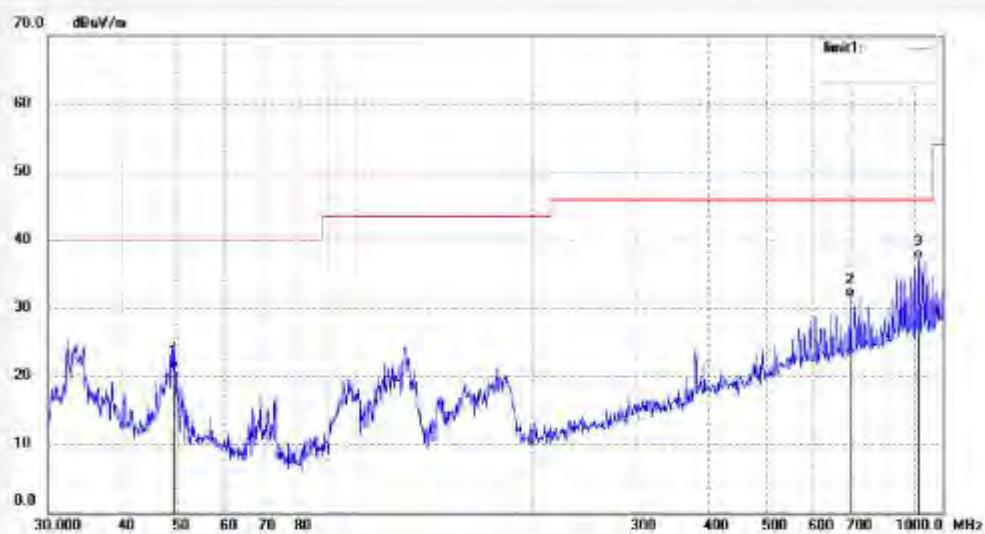
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3881
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2462MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n HT20



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	49.0144	32.99	-11.87	21.12	40.00	-18.88	QP			
2	694.4174	33.48	-1.88	31.60	46.00	-14.40	QP			
3	909.6666	35.82	1.34	37.16	46.00	-8.84	QP			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No : IAN2015 #3629

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/11/20/

Temp.(C) /Hum.(%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature: PEI

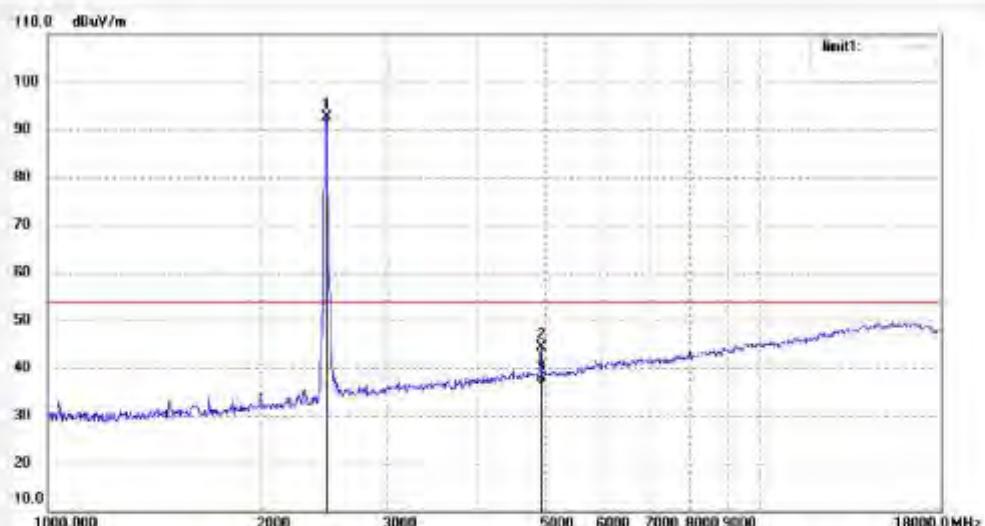
Mode: TX 2462MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	99.92	-7.35	92.57	/	/	peak			
2	4924.237	44.01	0.34	44.35	74.00	29.65	peak			
3	4924.237	36.29	0.34	36.63	54.00	-17.37	AVG			



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Site: 2# Chamber

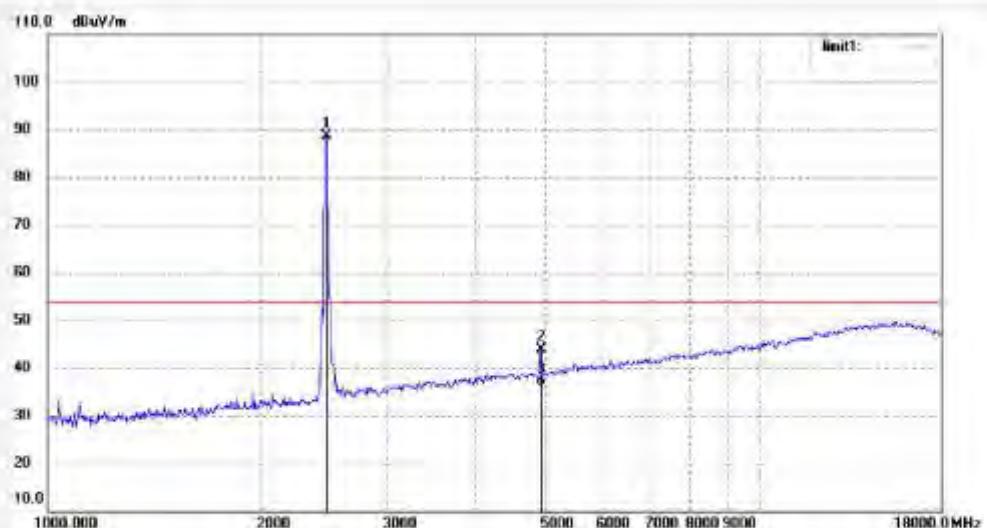
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No : IAN2015 #3630
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2462MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	96.04	-7.35	88.69	/	/	peak			
2	4924.221	43.57	0.34	43.91	74.00	-30.09	peak			
3	4924.221	35.78	0.34	36.12	54.00	-17.88	AVG			



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Site: 2# Chamber

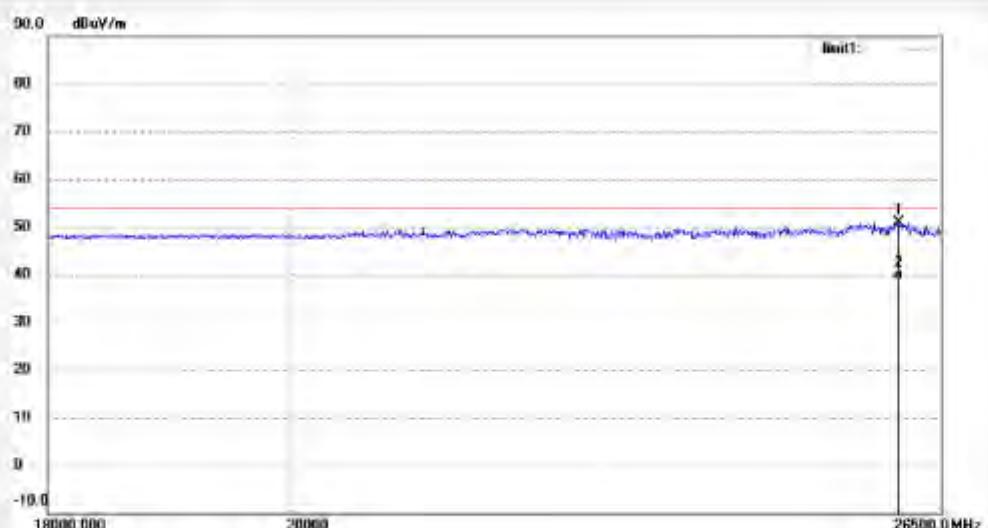
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No: IAN2015 #3673
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (°C)/Hum. (%): 23 °C / 48 %
EUT: Ceramic Heater
Mode: TX 2462MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/11/27/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11n HT20



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26012.563	33.77	17.22	50.99	74.00	-23.01	peak			
2	26012.563	21.65	17.22	38.87	54.00	-15.13	Avg			

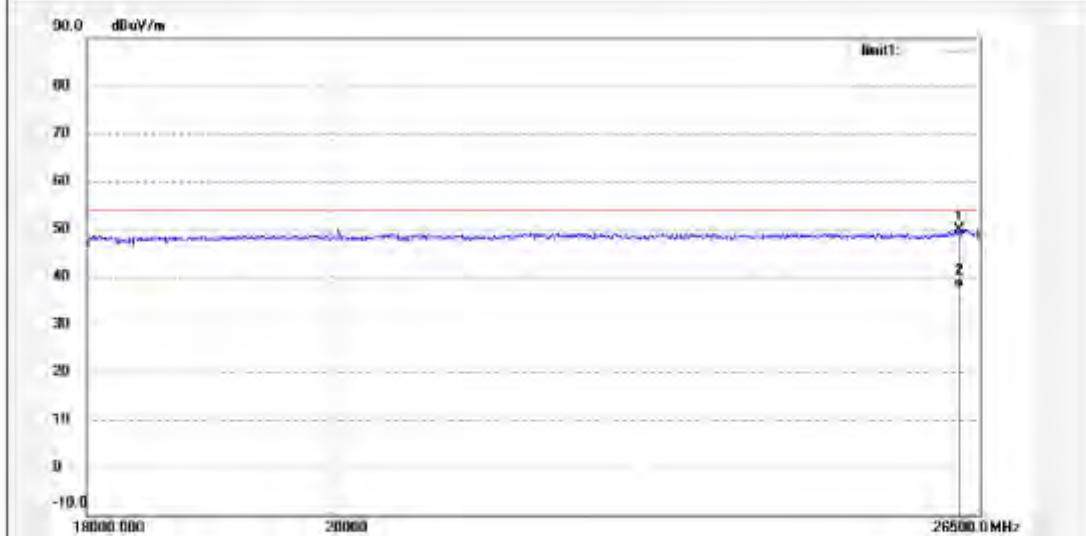


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3674	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 0 / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2462MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11n HT20		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26265.307	32.91	17.06	48.97	74.00	-24.03	peak			
2	26265.307	20.45	17.06	37.51	54.00	-16.49	AVG			

Appendix A.4: Radiated Spurious Emissions of 802.11 n(HT40) mode Low channel

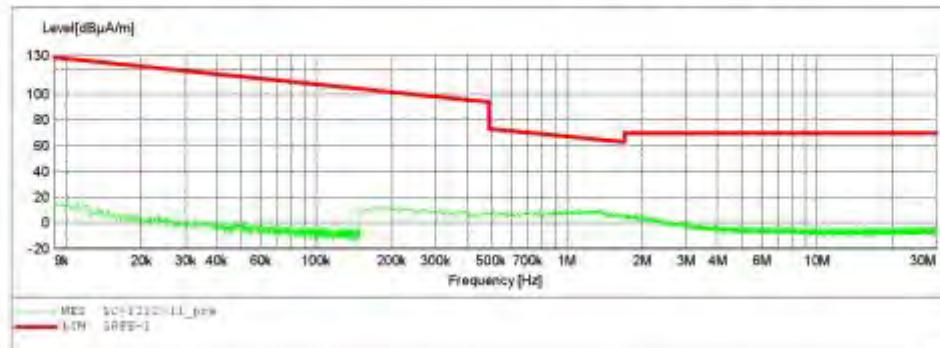
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Ceramic Heater M/N:DE-HTS3389
Manufacturer: LIANCHUANG
Operating Condition: TX 2422MHz
Test Site: 24 Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE_Fin"

Short Description	SUSI STD_VTERM2 1.70					
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF	Transducer
5.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



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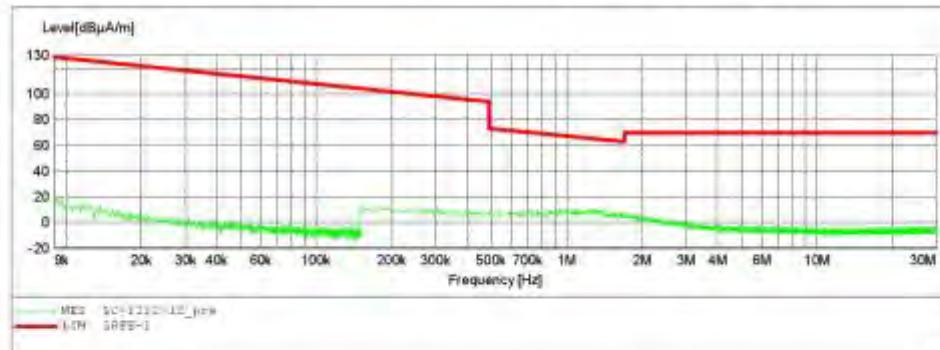
FCC Class B 3M Radiated

BUT: Ceramic Heater N/N:DE-HTS338B
Manufacturer: LIANCHUANG
Operating Condition: TX 2437MHz
Test Site: 24 Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE_Fin"

Short Description	Sub STD	VTERM2 1.70				
Start	Stop	Step	Detector	Measv.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	

9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz 1516M
150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz 1516M



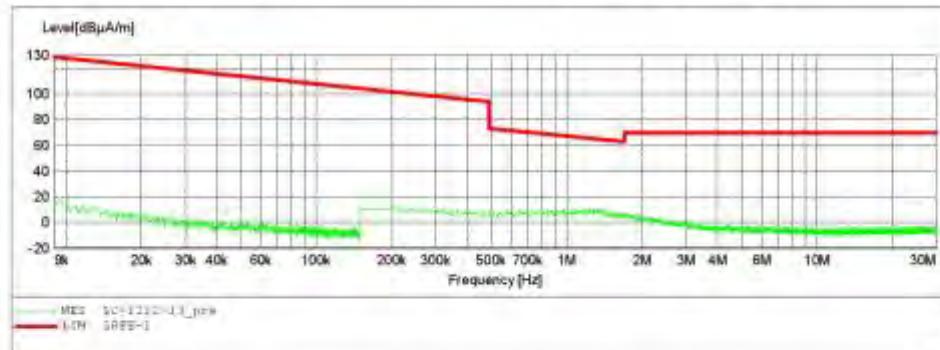
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

BUT: Ceramic Heater N/N:DE-HTS338B
Manufacturer: LIANCIHUANG
Operating Condition: TX 2452MHz
Test Site: 24 Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-12-12 /

SCAN TABLE: "LFRE Fin"

Short Description	Sub STD	VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Measv.	IF	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M





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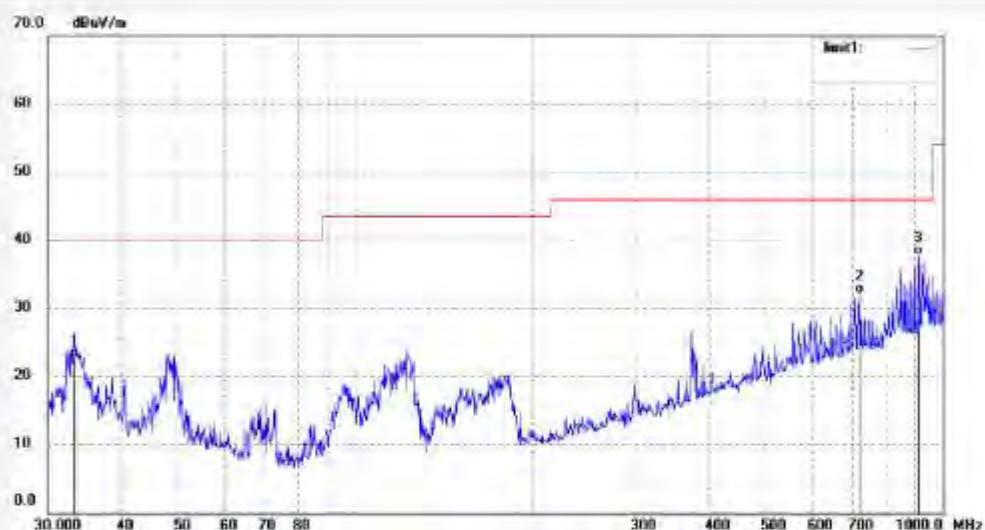
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3882
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2422MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n HT40



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.3278	31.66	-9.07	22.59	40.00	-17.41	QP			
2	721.7259	33.63	-1.46	32.17	46.00	-13.83	QP			
3	909.6666	36.44	1.34	37.78	46.00	-8.22	QP			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: IAN2015 #3883

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/12/15/

Temp. (C)/Hum. (%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature:

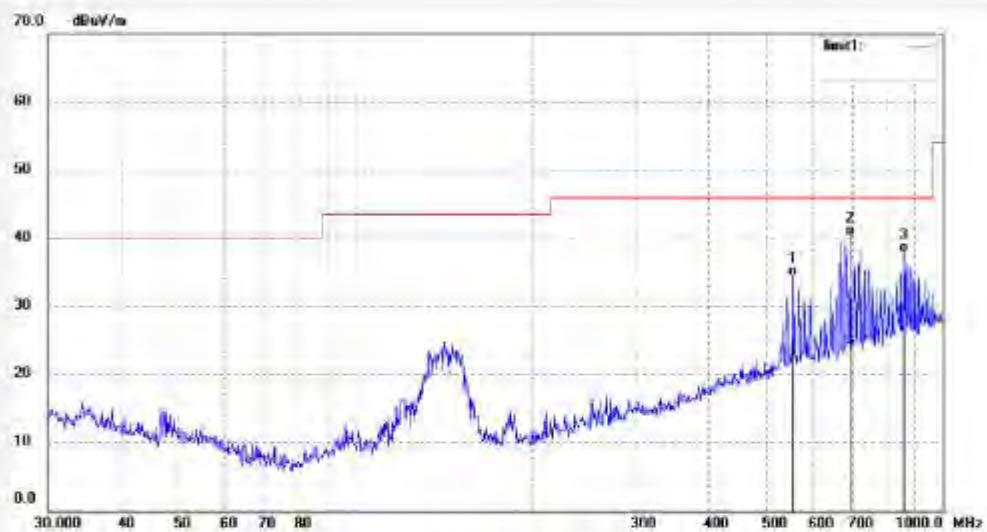
Mode: TX 2422MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	556.7744	37.87	-3.48	34.39	46.00	-11.61	QP			
2	694.4174	42.23	-1.88	40.35	46.00	-5.65	QP			
3	860.0352	36.95	0.86	37.81	46.00	-8.19	QP			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No : Ian2015 #3633

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/11/20/

Temp.(C)Hum.(%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature: PEI

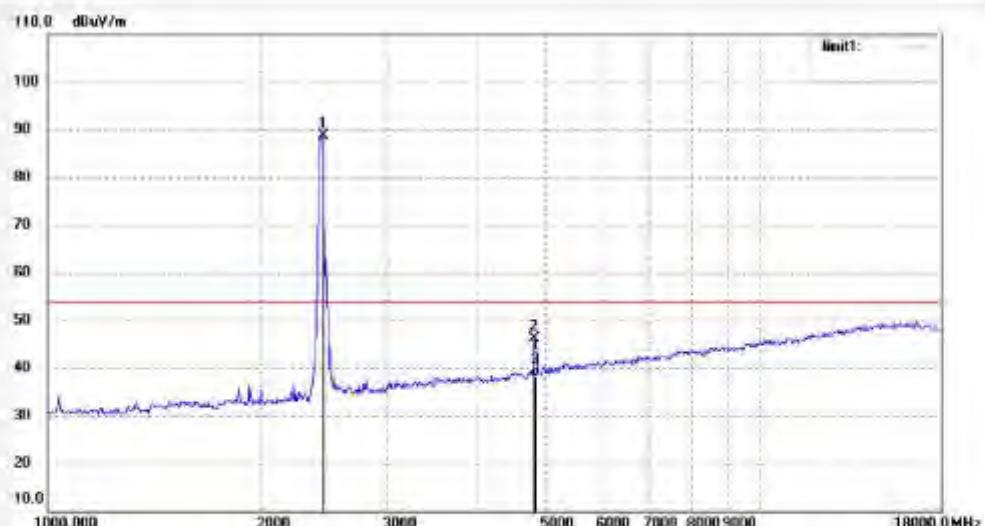
Mode: TX 2422MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.000	95.91	-7.36	88.55	/	/	peak			
2	4844.302	46.32	-0.19	46.13	74.00	27.87	peak			
3	4844.302	38.43	-0.19	38.24	54.00	-15.76	AVG			



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Site: 2# Chamber

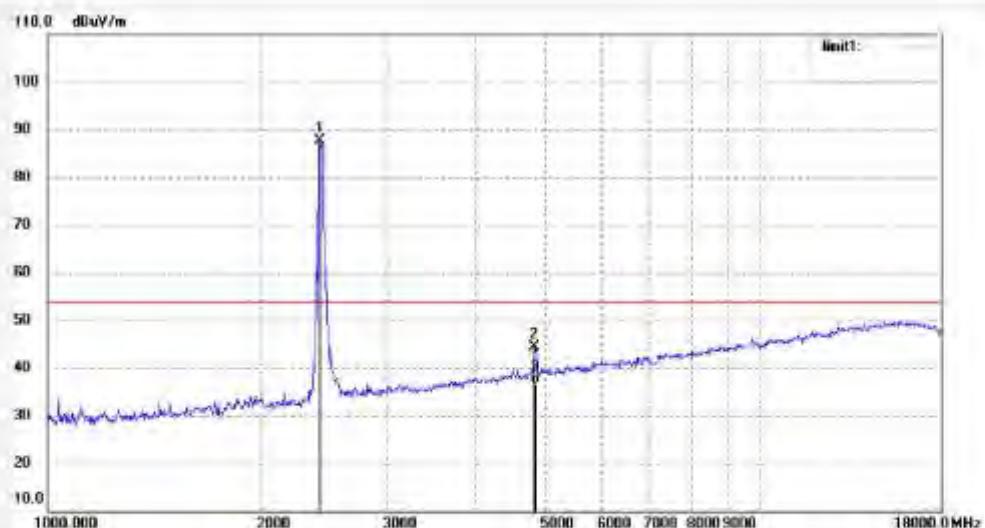
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No : IAN2015 #3634
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C) / Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2422MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.000	95.12	-7.43	87.69	/	/	peak			
2	4844.318	44.47	-0.19	44.28	74.00	29.72	peak			
3	4844.318	36.84	-0.19	36.65	54.00	-17.35	AVG			

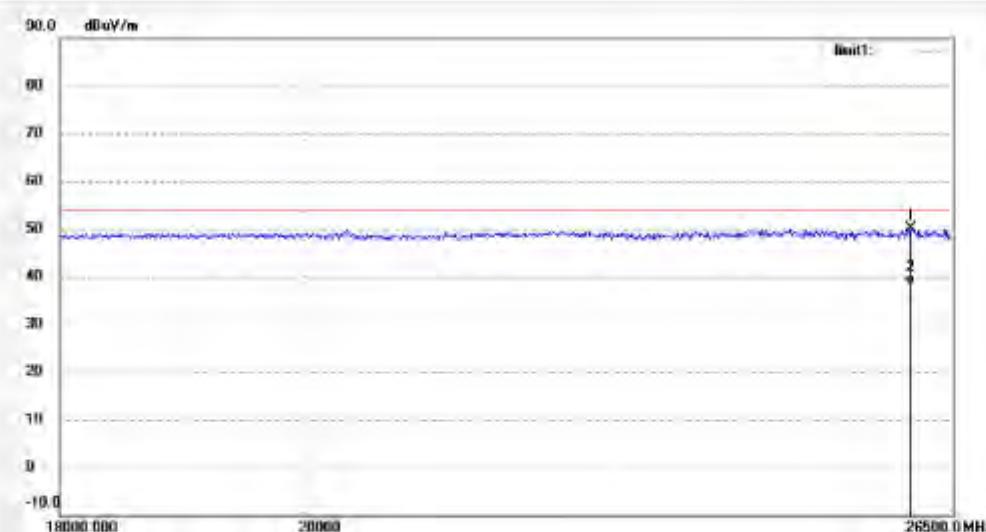


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	Ian2015 #3675	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 0 / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2422MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11n HT40		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26012.563	32.83	17.22	50.05	74.00	-23.95	peak			
2	26012.563	21.08	17.22	38.30	54.00	-15.70	Avg			

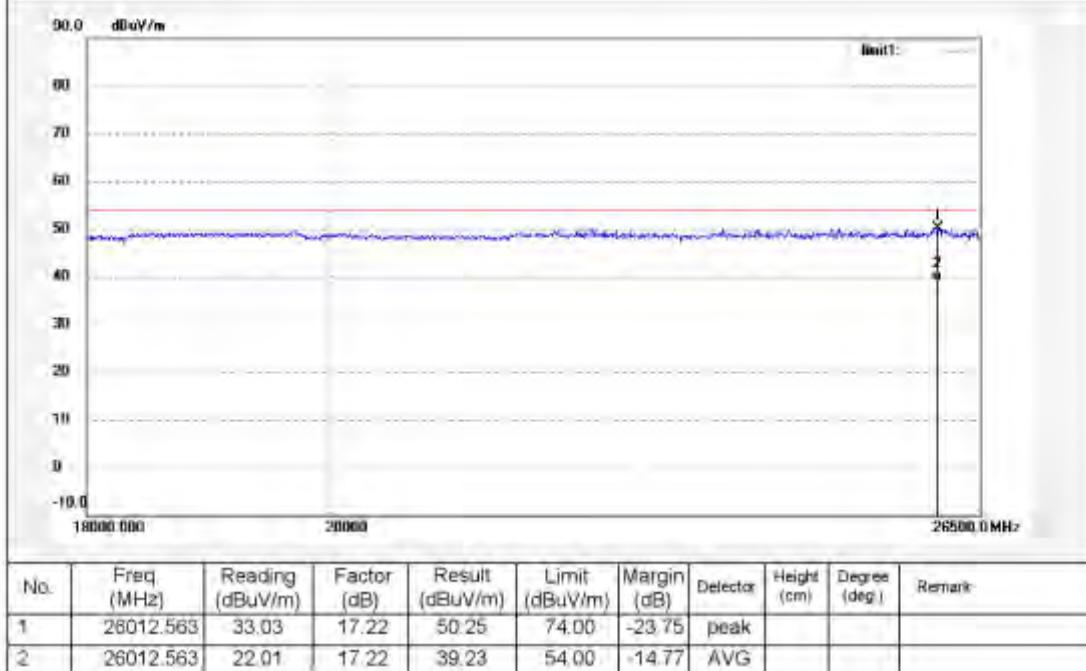


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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	Ian2015 #3676	Polarization	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 0 / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2422MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11n HT40		





Middle channel



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Jan2015 #3884

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/12/15/

Temp. (C)/Hum. (%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature:

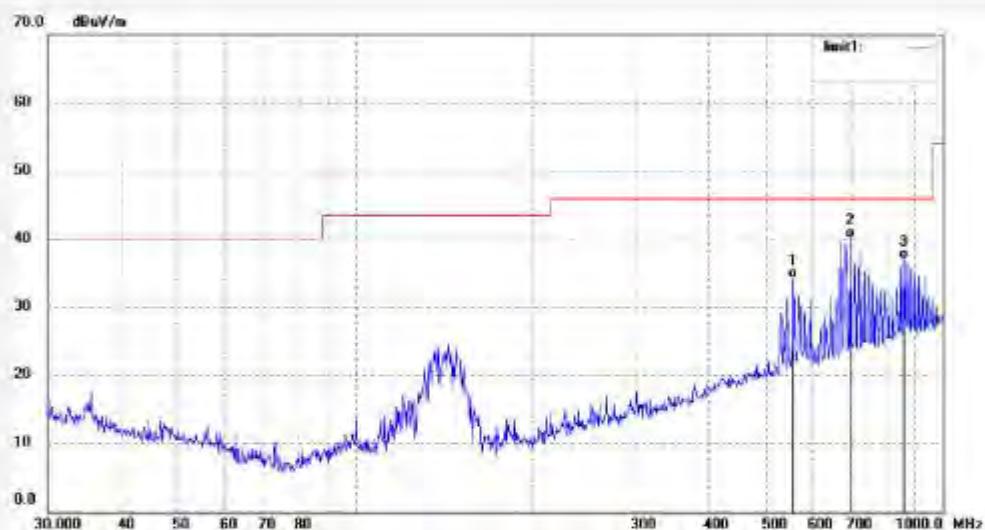
Mode: TX 2437MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11n HT40



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	556.7744	37.72	-3.48	34.24	46.00	-11.76	QP			
2	694.4174	42.01	-1.88	40.13	46.00	-5.87	QP			
3	860.0352	36.22	0.86	37.08	46.00	-8.92	QP			



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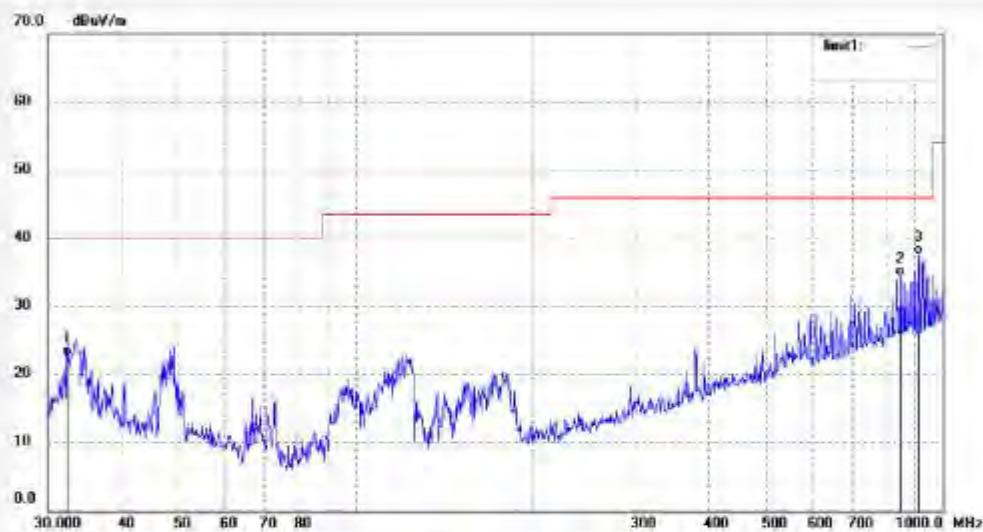
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3885
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2437MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n HT40



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.4059	31.40	-8.80	22.60	40.00	-17.40	QP			
2	848.0562	33.61	0.70	34.31	46.00	-11.69	QP			
3	909.6666	36.15	1.34	37.49	46.00	-8.51	QP			



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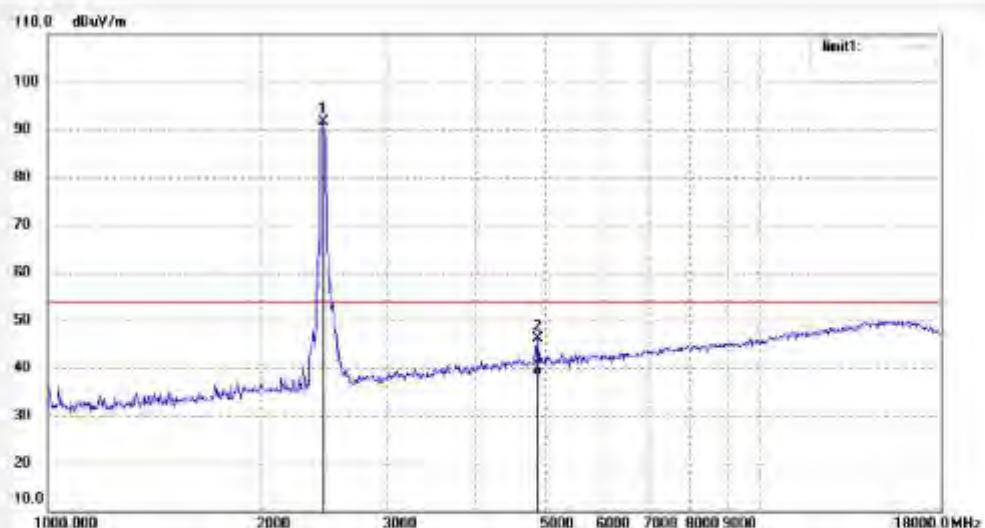
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No : IAN2015 #3651
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2437MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/27/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	99.04	-7.36	91.68	/	/	peak			
2	4874.316	46.11	0.09	46.20	74.00	27.80	peak			
3	4874.316	38.17	0.09	38.26	54.00	-15.74	AVG			



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F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
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Site: 2# Chamber

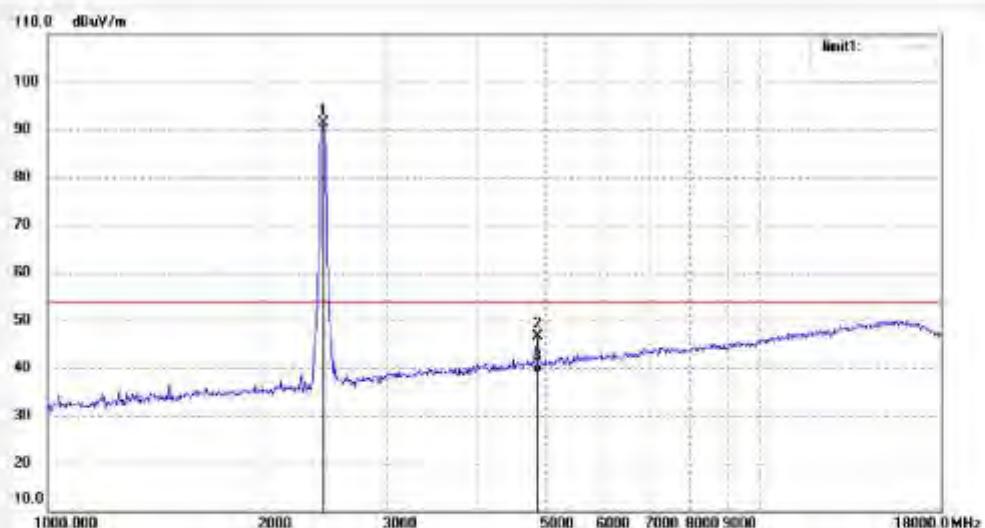
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No : IAN2015 #3652
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C) / Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2437MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/11/27/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	98.77	-7.36	91.41	/	/	peak			
2	4874.322	46.57	0.09	46.66	74.00	27.34	peak			
3	4874.322	38.73	0.09	38.82	54.00	-15.18	AVG			



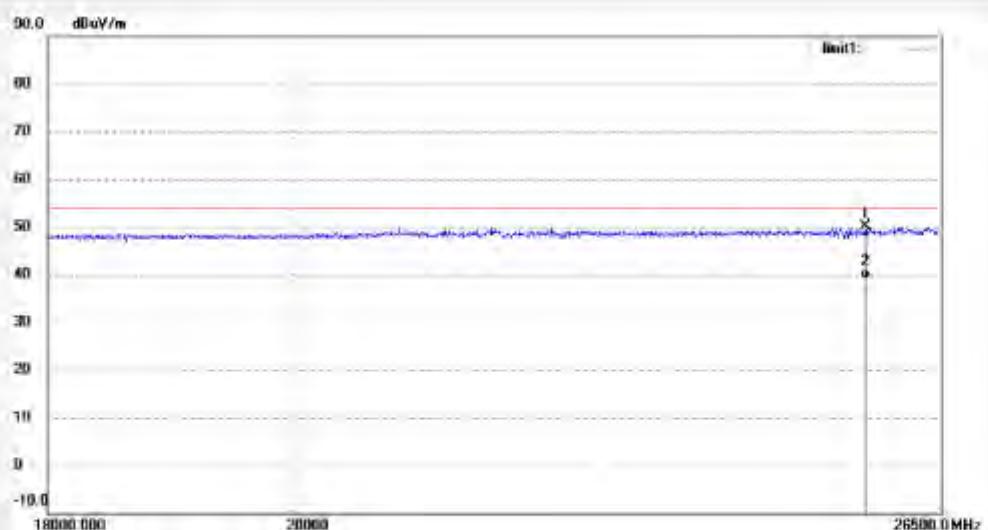
ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	Ian2015 #3677	Polarization	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 0 / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2437MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		

Note: 802.11n HT40



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25642.959	32.70	17.47	50.17	74.00	-23.83	peak			
2	25642.959	21.78	17.47	39.25	54.00	-14.75	Avg			

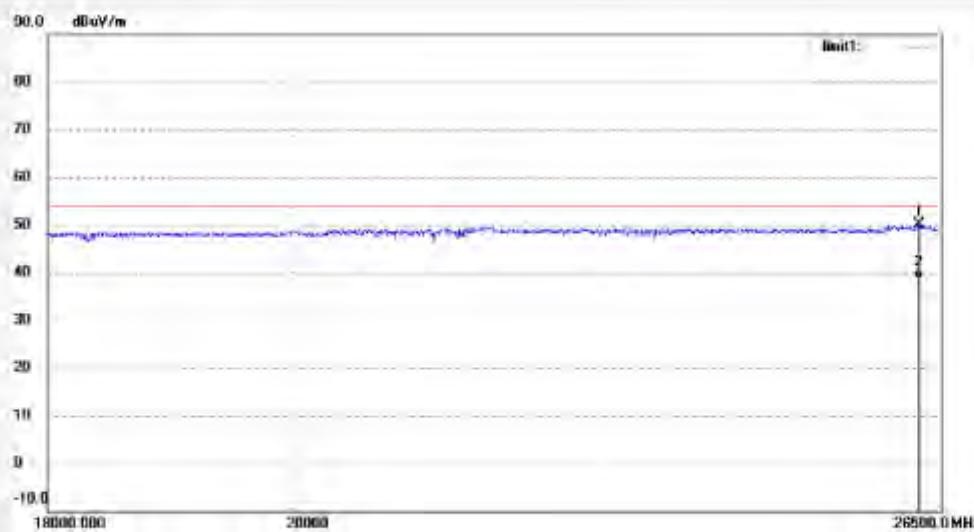


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	Ian2015 #3678	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 0 / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2437MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11n HT40		



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26244.998	32.97	17.07	50.04	74.00	-23.96	peak			
2	26244.998	21.45	17.07	38.52	54.00	-15.48	Avg			



High channel



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Jan2015 #3886

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/12/15/

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature:

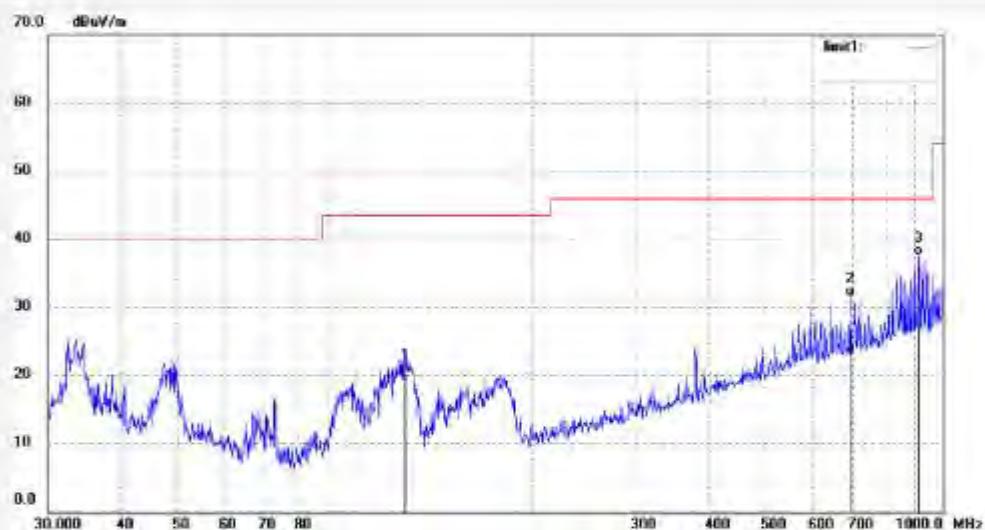
Mode: TX 2452MHz

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note: 802.11n HT40



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.5485	33.40	-12.96	20.44	43.50	-23.06	QP			
2	694.4174	33.41	-1.88	31.53	46.00	-14.47	QP			
3	909.6666	36.24	1.34	37.58	46.00	-8.42	QP			



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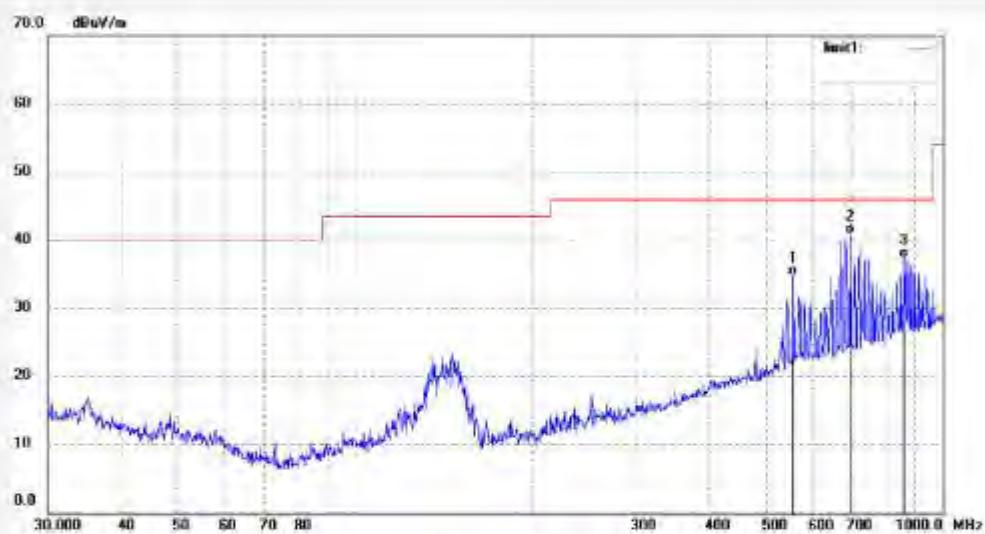
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3887
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2452MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note: 802.11n HT40



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	556.7744	38.21	-3.48	34.73	46.00	-11.27	QP			
2	694.4174	42.68	-1.88	40.80	46.00	-5.20	QP			
3	860.0352	36.46	0.86	37.32	46.00	-8.68	QP			



ACCURATE TECHNOLOGY CO., LTD.

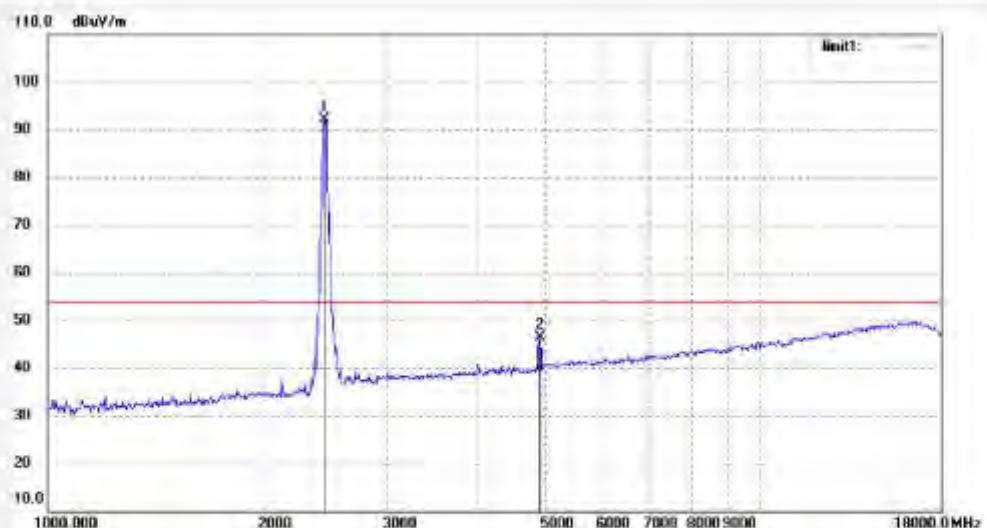
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No : IAN2015 #3653
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C) / Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2452MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/11/27/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2452.000	99.48	-7.33	92.15	/	/	peak			
2	4904.329	46.21	0.25	46.46	74.00	-27.54	peak			
3	4904.329	38.78	0.25	39.03	54.00	-14.97	AVG			



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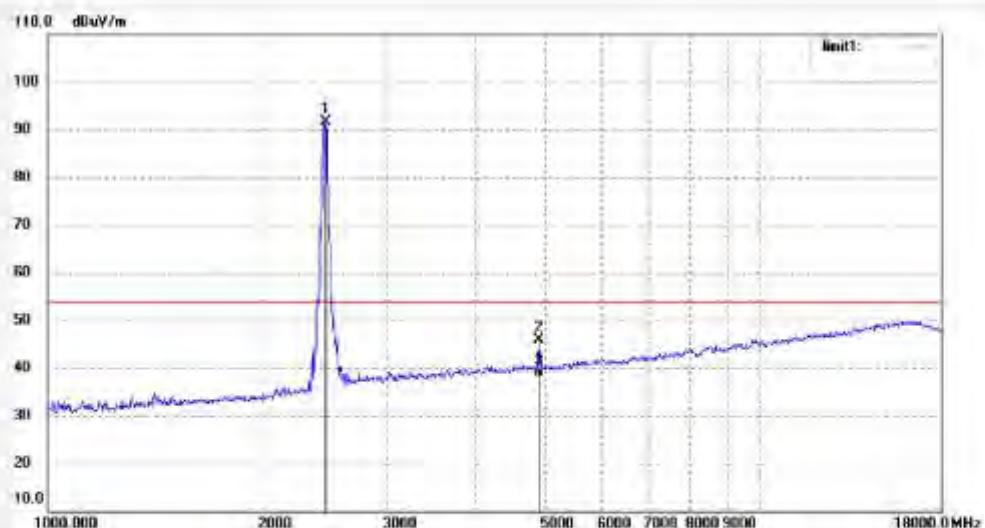
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No : IAN2015 #3654
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2452MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/27/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2452.000	99.07	-7.33	91.74	/	/	peak			
2	4904.333	45.72	0.25	45.97	74.00	28.03	peak			
3	4904.333	37.75	0.25	38.00	54.00	-16.00	AVG			



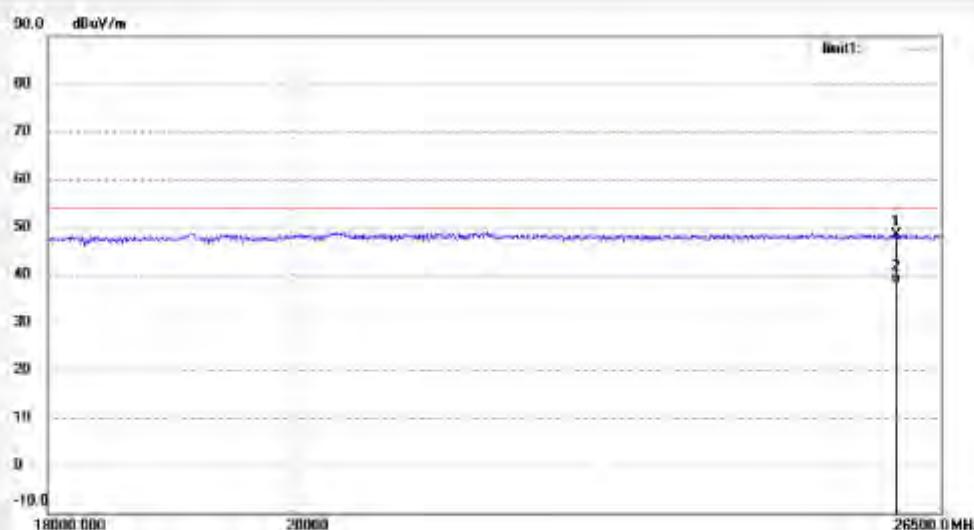
ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	Ian2015 #3679	Polarization	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 0 / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2452MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		

Note: 802.11n HT40



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25992.449	31.25	17.24	48.49	74.00	-25.51	peak			
2	25992.449	20.90	17.24	38.14	54.00	-15.86	AVG			



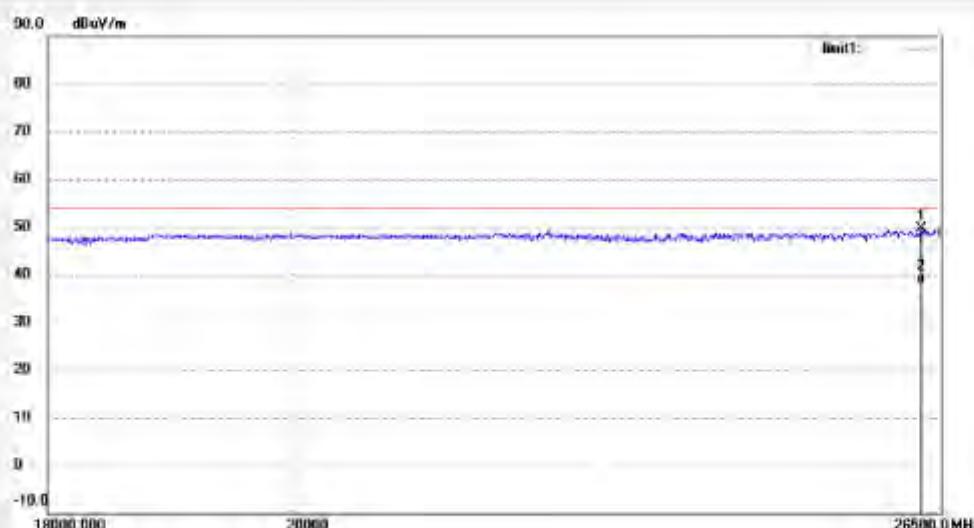
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3680	Polarization	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%)	23 0 / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2452MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		

Note: 802.11n HT40



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26275.468	32.51	17.05	49.56	74.00	-24.44	peak			
2	26275.468	21.18	17.05	38.23	54.00	-15.77	Avg			

Appendix A.5: Radiated Emissions in Restricted Bands of 802.11 b mode Low channel



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Site: 2# Chamber

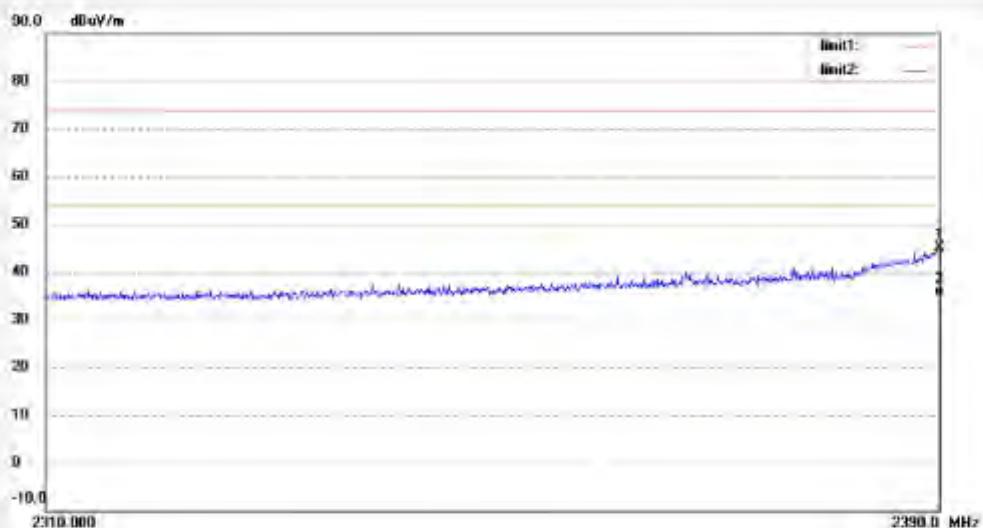
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No. IAN2015 #3605
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp. (C) / Hum. (%) 23 C / 48 %
EUT Ceramic Heater
Mode: TX 2412MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11b



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	52.75	-7.53	45.22	74.00	-28.78	peak			
2	2390.000	42.37	-7.53	34.84	54.00	-19.16	AVG			



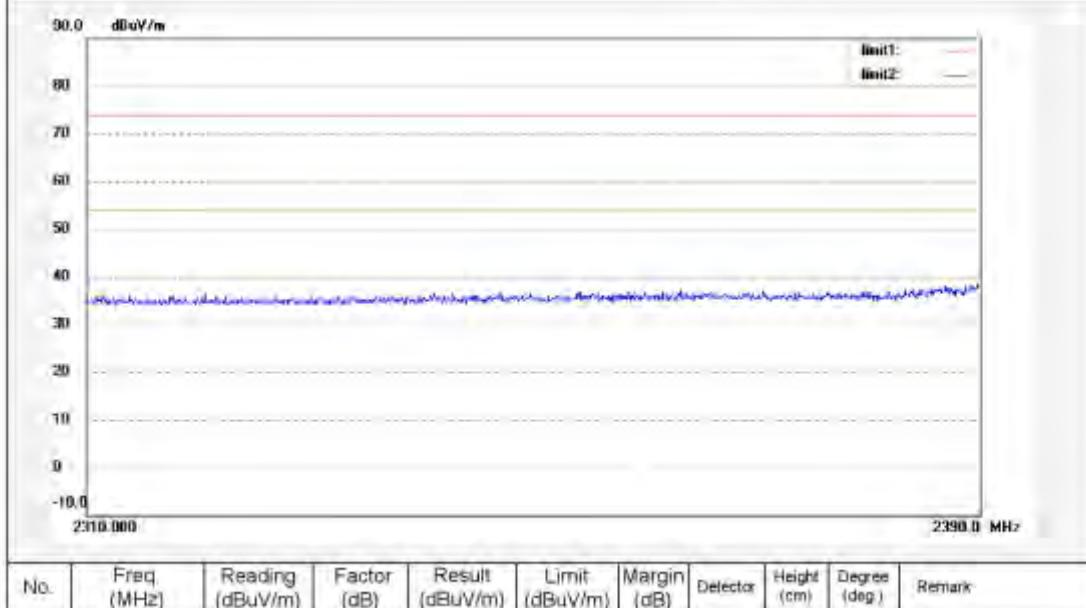
ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3606	Polarization	Vertical
Standard:	FCC (Band Edge)	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/20/
Temp.(C)/Hum.(%):	23 C / 48 %	Time:	
EUT:	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2412MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		

Note:	802.11b
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High channel



ACCURATE TECHNOLOGY CO., LTD.

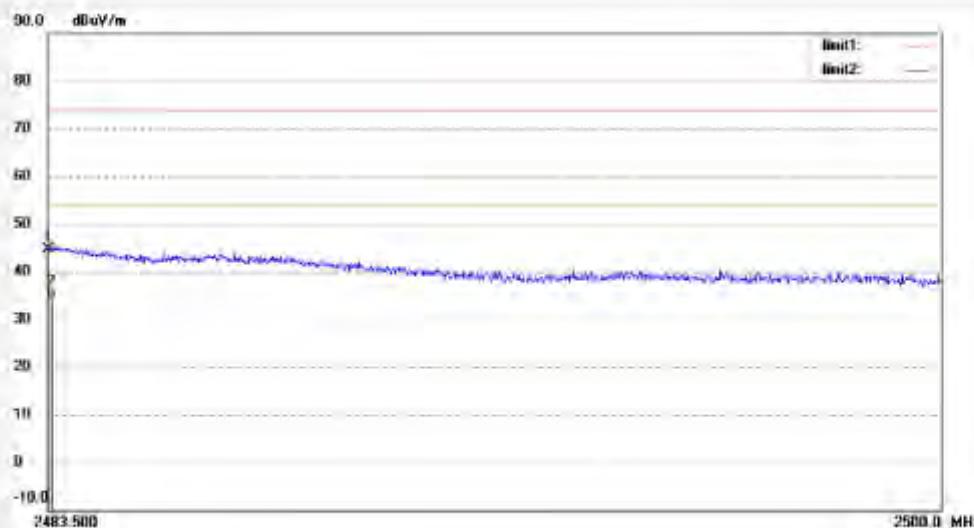
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No	lan2015 #3611	Polarization	Vertical
Standard:	FCC (Band Edge)	Power Source:	AC 120V/60Hz
Test Item:	Radiation Test	Date:	15/11/20/
Temp.(C)/Hum.(%):	23 C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2462MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11b		



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	51.99	-7.37	44.62	74.00	-29.38	peak			
2	2483.500	41.87	-7.37	34.50	54.00	-19.50	Avg			

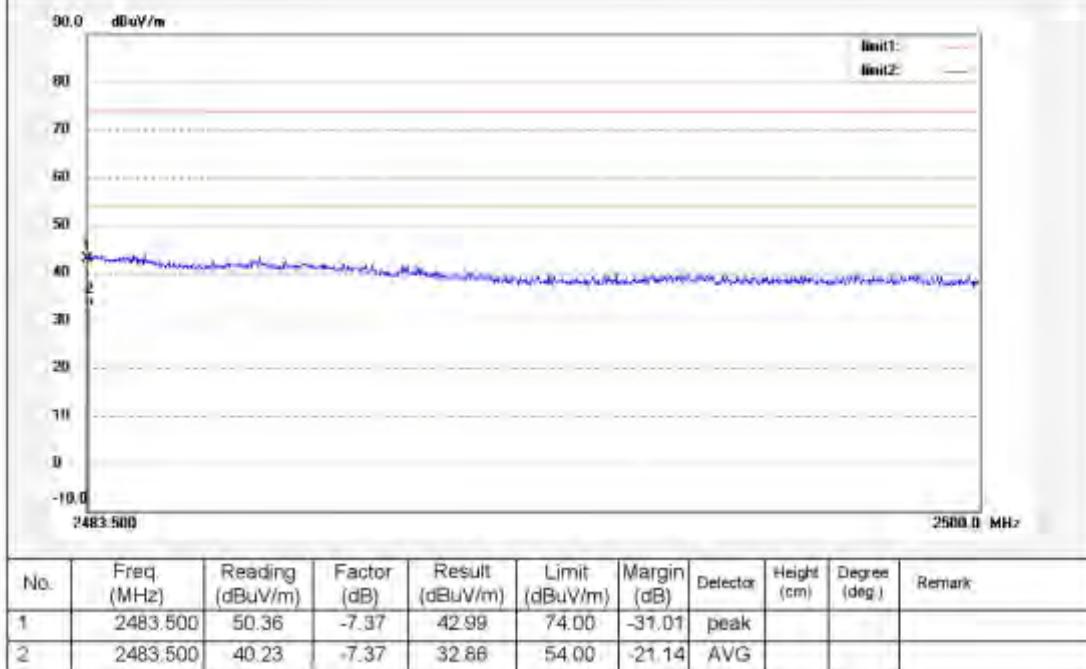


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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No	lan2015 #3612	Polarization	Horizontal
Standard:	FCC (Band Edge)	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/20/
Temp.(C)/Hum.(%):	23 C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2462MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11b		





Appendix A.6: Radiated Emissions in Restricted Bands of 802.11 g mode

Low channel



ACCURATE TECHNOLOGY CO., LTD.

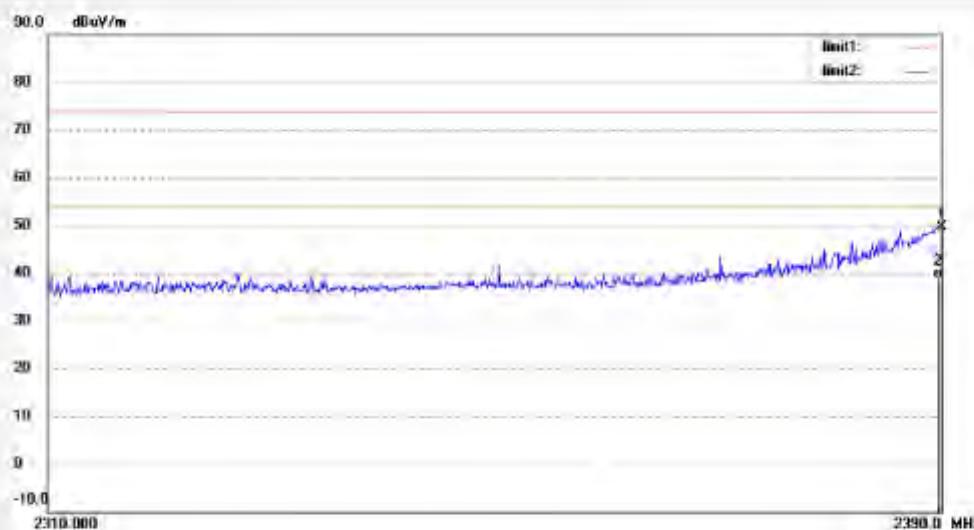
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No	Ian2015 #3615	Polarization	Vertical
Standard	FCC (Band Edge)	Power Source	AC 120V/60Hz
Test Item	Radiation Test	Date	15/11/20
Temp (C)/Hum. (%)	23 / 48 %	Time	
EUT	Ceramic Heater	Engineer Signature	PEI
Mode	TX 2412MHz	Distance	3m
Model	DF-HT5338P		
Manufacturer	LIANCHUANG		
Note	802.11g		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	57.25	-7.53	49.72	74.00	-24.28	peak			
2	2390.000	46.52	-7.53	38.99	54.00	-15.01	AVG			

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Site: 2# Chamber

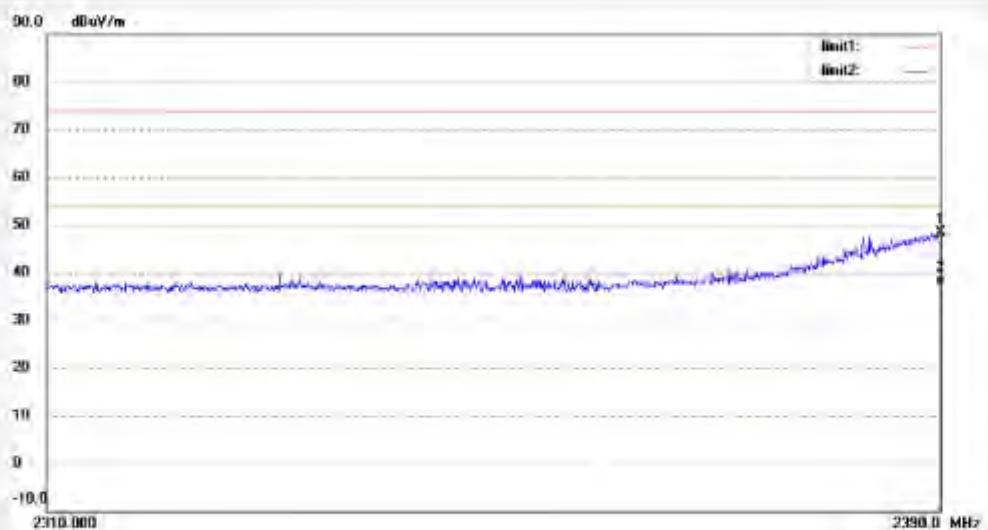
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No: lan2015 #3616
 Standard: FCC (Band Edge)
 Test Item: Radiation Test
 Temp. (C)/Hum. (%): 23 C / 48 %
 EUT: Ceramic Heater
 Mode: TX 2412MHz
 Model: DF-HT5338P
 Manufacturer: LIANCHUANG

Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 15/11/20/
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note: 802.11g



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	55.86	-7.53	48.33	74.00	-25.67	peak			
2	2390.000	44.89	-7.53	37.36	54.00	-16.64	AVG			



High channel



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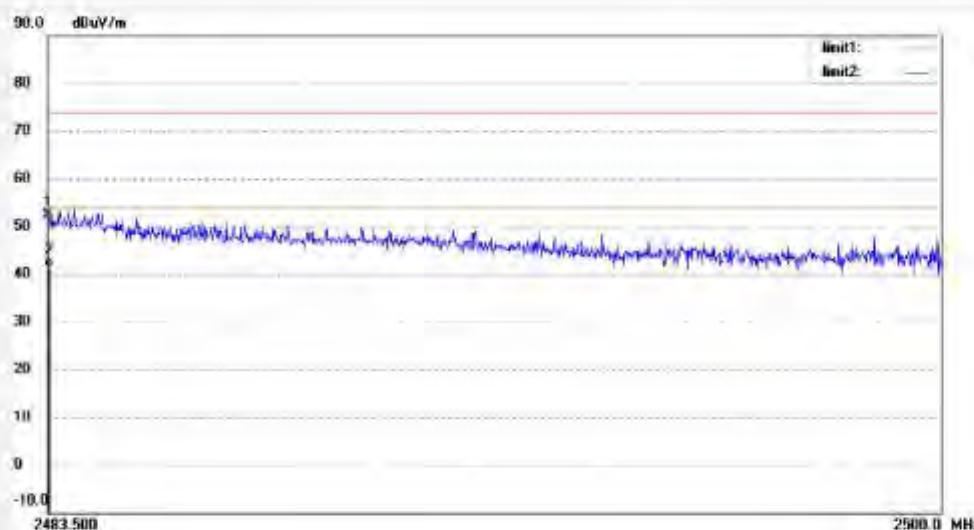
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax +86-0755-26503396

Job No : Jan2015 #3621	Polarization : Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/11/20/
Temp.(C) /Hum.(%) 23 C / 48 %	Time:
EUT: Ceramic Heater	Engineer Signature: PEI
Mode: TX 2462MHz	Distance: 3m
Model: DF-HT5338P	
Manufacturer: LIANCHUANG	
Note: 802.11g	



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	59.83	-7.37	52.46	74.00	-21.54	peak			
2	2483.500	48.80	-7.37	41.43	54.00	-12.57	AVG			



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Site: 2# Chamber

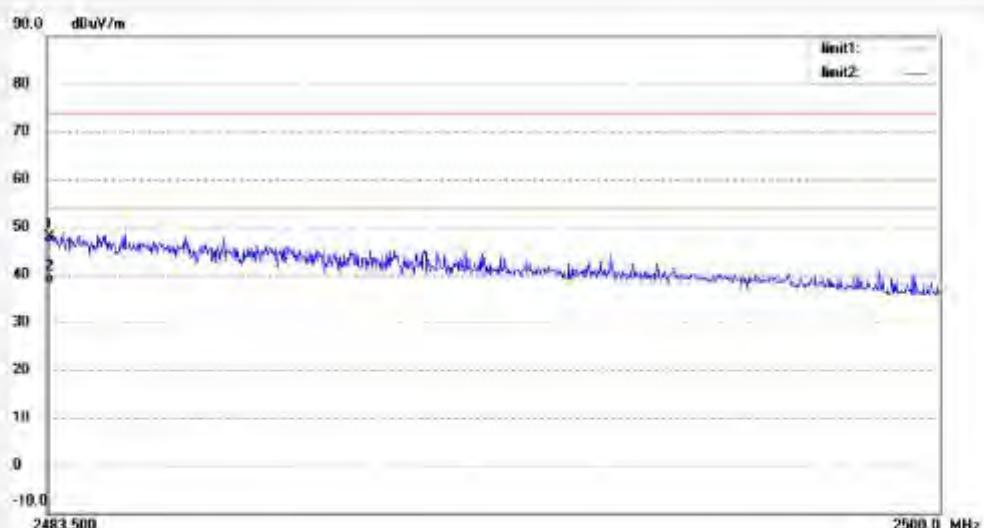
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: IAN2015 #3622
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp. (C)/Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2462MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11g



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.550	55.32	-7.37	47.95	74.00	-26.05	peak			
2	2483.550	45.46	-7.37	38.09	54.00	-15.91	AVG			

Appendix A.7: Radiated Emissions in Restricted Bands of 802.11 n(HT20) mode Low channel



ACCURATE TECHNOLOGY CO., LTD.

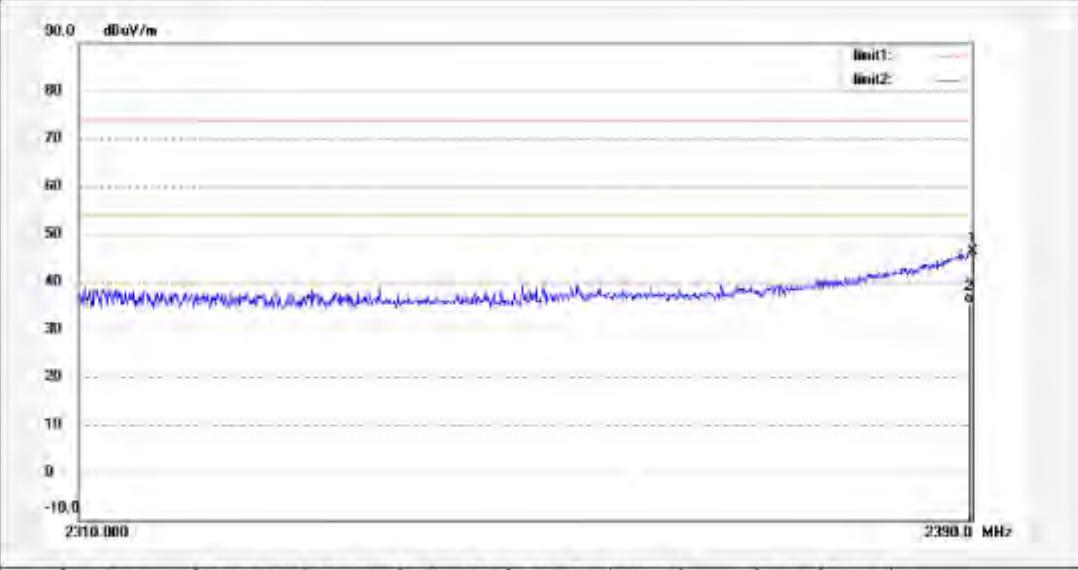
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No	Ian2015 #3625	Polarization	Vertical
Standard	FCC (Band Edge)	Power Source	AC 120V/60Hz
Test item	Radiation Test	Date	15/11/20/
Temp.(C)/Hum.(%)	23 / 48 %	Time	
EUT	Ceramic Heater	Engineer Signature	PEI
Mode	TX 2412MHz	Distance	3m
Model	DF-HT5338P		
Manufacturer	LIANCHUANG		
Note	802.11n HT20		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	53.83	-7.53	46.30	74.00	-27.70	peak			
2	2390.000	42.99	-7.53	35.46	54.00	-18.54	AVG			

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F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
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Site: 2# Chamber

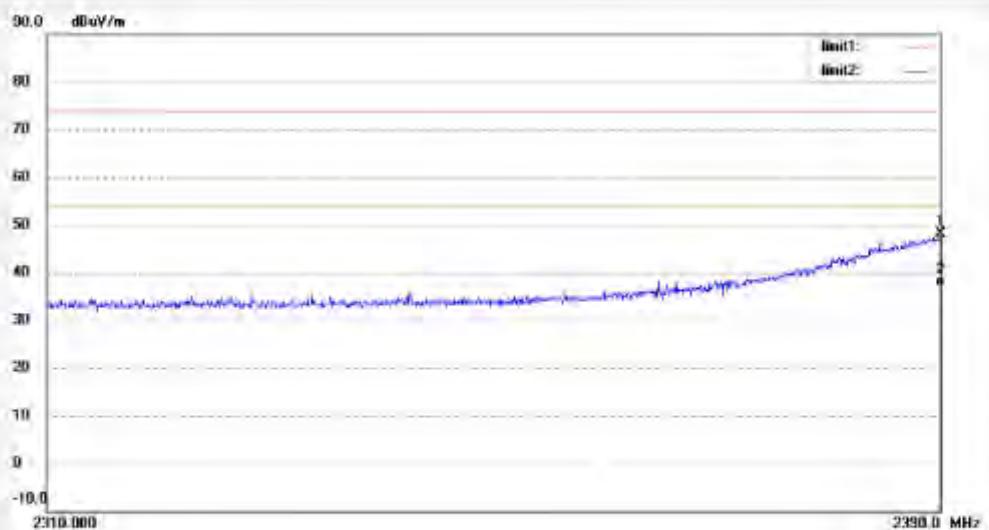
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No: IAN2015 #3626
 Standard: FCC (Band Edge)
 Test item: Radiation Test
 Temp. (C) /Hum.(%) 23 C / 48 %
 EUT Ceramic Heater
 Mode: TX 2412MHz
 Model: DF-HT5338P
 Manufacturer: LIANCHUJANG

Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 15/11/20/
 Time:
 Engineer Signature: PEI
 Distance: 3m

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Defector	Height (cm)	Degree (deg.)	Remark
1	2390.000	55.57	-7.53	48.04	74.00	-25.96	peak			
2	2390.000	44.78	-7.53	37.25	54.00	-16.75	Avg			

High channel



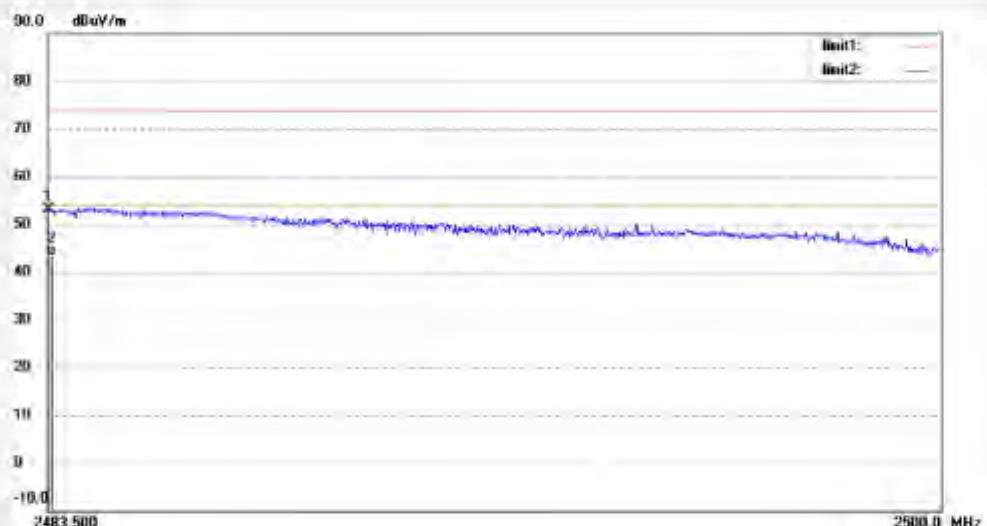
ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3631	Polarization	Horizontal
Standard:	FCC (Band Edge)	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/20/
Temp(°C)/Hum.(%):	23 °C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX.2462MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUJANG		

Note: 802.11n HT20



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	60.58	-7.37	53.21	74.00	-20.79	peak			
2	2483.500	50.79	-7.37	43.42	54.00	-10.58	AVG			



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Site: 2# Chamber

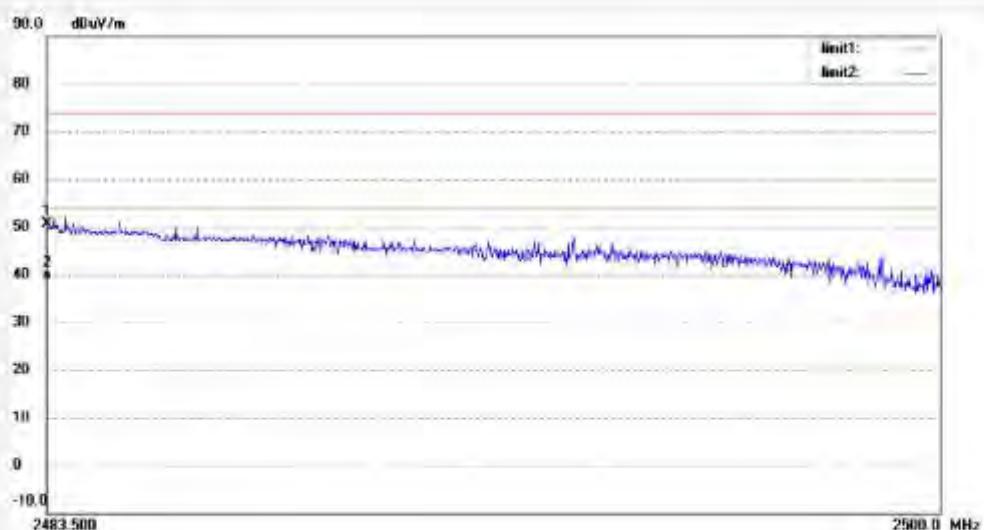
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: IAN2015 #3632
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp. (C)/Hum.(%) 23 C / 48 %
EUT: Ceramic Heater
Mode: TX 2462MHz
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/11/20/
Time:
Engineer Signature: PEI
Distance: 3m

Note: 802.11n HT20



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	57.89	-7.37	50.52	74.00	-23.48	peak			
2	2483.500	46.27	-7.37	38.90	54.00	-15.10	AVG			

Appendix A.8: Radiated Emissions in Restricted Bands of 802.11 n(HT40) mode Low channel



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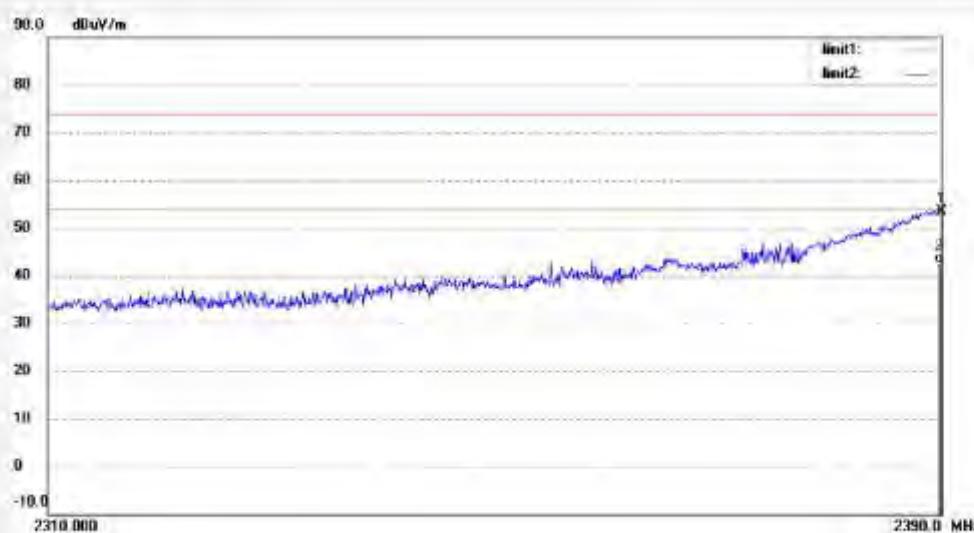
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No :	Ian2015 #3635	Polarization:	Horizontal
Standard:	FCC (Band Edge)	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/20/
Temp.(C)/Hum.(%):	23 C / 48 %	Time:	
EUT:	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2422MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11n HT40		



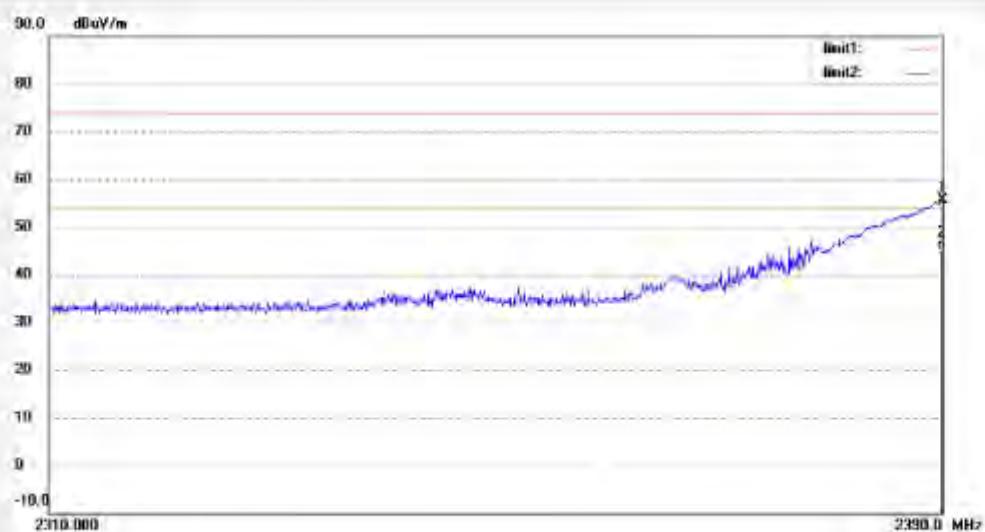
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	60.86	-7.53	53.33	74.00	-20.67	peak			
2	2390.000	50.13	-7.53	42.60	54.00	-11.40	AVG			



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Job No:	Ian2015 #3636	Polarization:	Vertical
Standard:	FCC (Band Edge)	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/20/
Temp. (C) /Hum.(%)	23 C / 48 %	Time:	
EUT:	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2422MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUJANG		
Note:	802.11n HT40		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Defector	Height (cm)	Degree (deg.)	Remark
1	2390.000	63.05	-7.53	55.52	74.00	-18.48	peak			
2	2390.000	52.75	-7.53	45.22	54.00	-8.78	AVG			

High channel



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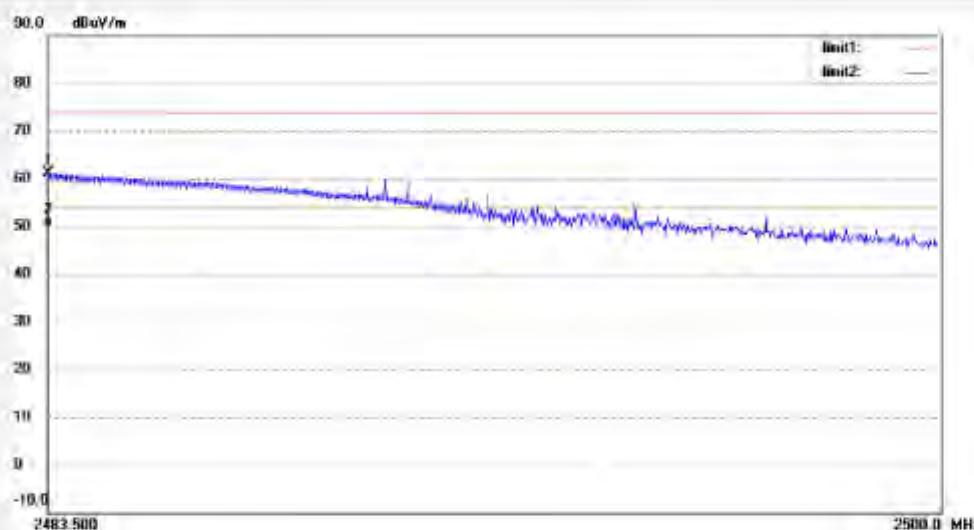
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No	Ian2015 #3655	Polarization	Horizontal
Standard:	FCC (Band Edge)	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp(°C)/Hum.(%):	23°C / 48%	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX.2452MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		

Note: 802.11n HT40



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	68.50	-7.37	61.13	74.00	-12.87	peak			
2	2483.500	57.18	-7.37	49.81	54.00	-4.19	AVG			

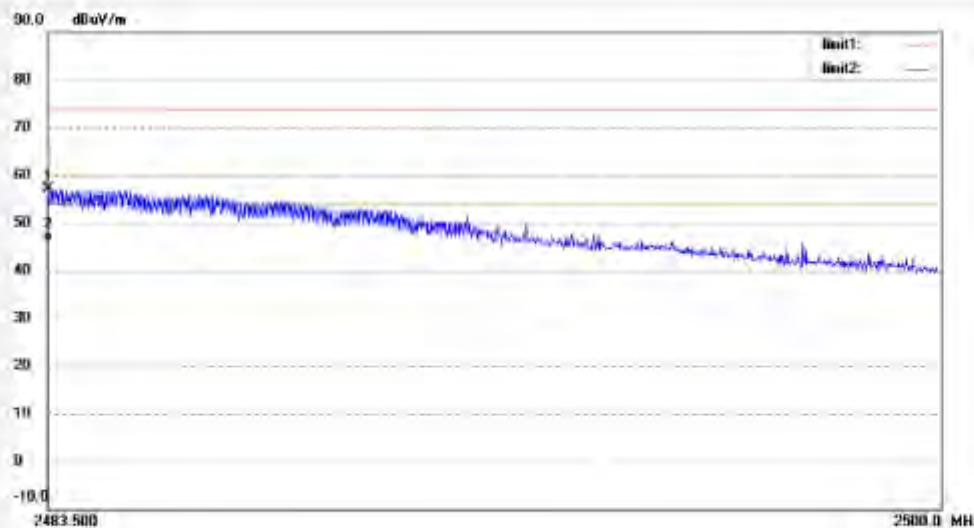


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No	lan2015 #3656	Polarization	Vertical
Standard:	FCC (Band Edge)	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/11/27/
Temp.(C)/Hum.(%):	23 C / 48 %	Time:	
EUT	Ceramic Heater	Engineer Signature:	PEI
Mode:	TX 2452MHz	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:	802.11n HT40		



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	64.58	-7.37	57.21	74.00	-16.79	peak			
2	2483.500	53.46	-7.37	46.09	54.00	-7.91	AVG			

Appendix A.9: Conducted Emission of B mode

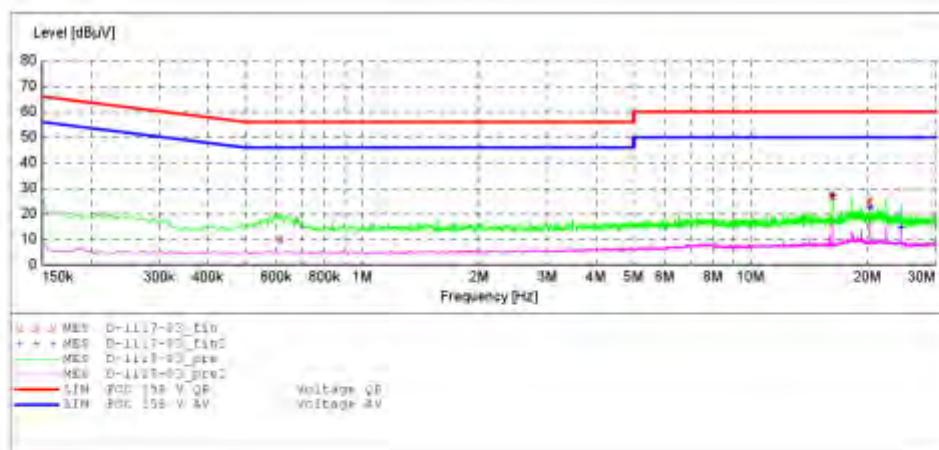
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

BUT4: Ceramic Heater M/N:DE-HT0008P
Manufacturer: LIANCHUANG
Operating Condition: On with WiFi
Test Site: 1#Shielding Room
Operator: LAN
Test Specification: 1. 120V/60Hz
Comment: Mains Port
Start of Test: 11/17/2015 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUE STD_VTERM2 1.70
Start Frequency: 150.0 kHz Stop Frequency: 30.0 MHz Step Width: 100.0 Hz
Detector: QuasiPeak 1.0 s Time: Average
IF Bandwidth: 200 Hz Transducer: NS1MK8126-200B
150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 20 kHz NS1MK8126-200B
Average



MEASUREMENT RESULT: "D-1117-03_fin"

11/17/2015	Frequency	Level	Transd	Limit	Margin	Detector	Line	EE.
	MHz	dB μ V	dB	dB μ V	dB			
	0.620000	10.00	10.8	56	41.0	QF	L1	GND
	16.255000	27.20	11.4	60	32.8	QF	L1	GND
	20.320000	24.60	11.4	60	35.4	QF	L1	GND

MEASUREMENT RESULT: "D-1117-03_fin2"

11/17/2015	Frequency	Level	Transd	Limit	Margin	Detector	Line	EE.
	MHz	dB μ V	dB	dB μ V	dB			
	16.255000	27.00	11.4	50	29.0	AV	L1	GND
	20.320000	22.00	11.4	50	28.0	AV	L1	GND
	24.385000	14.40	11.5	50	35.6	AV	L1	GND

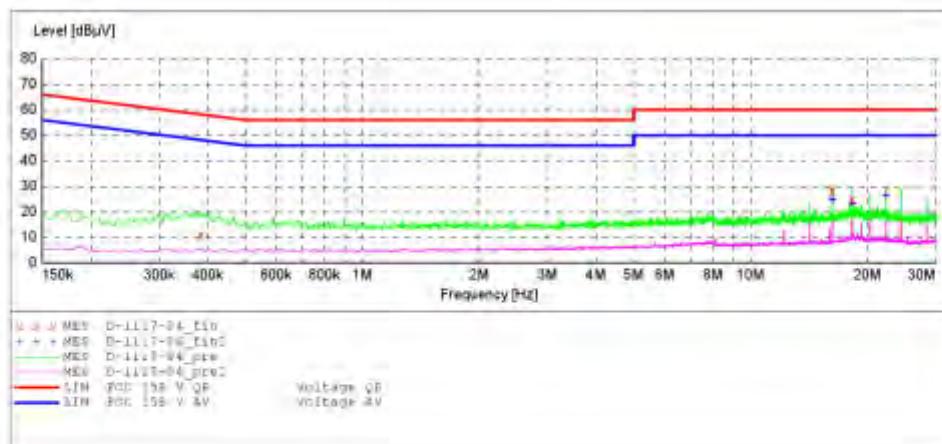
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

Unit: Ceramic Heater M/N: D-1117-04
Manufacturer: LIANCIHUANG
Operating Condition: On with WiFi
Test Site: 1#shielding Room
Operator: LAN
Test Specification: N 120V/60Hz
Comment: Mains Port
Start of Test: 11/17/2015 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUE STD_VTERM1 1.70
Start Stop Step Detector Mess. IF Transducer
Frequency Frequency Width Time Bandw.
5.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NS1K8126-2808
150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NS1K8126-2808
Averpage



MEASUREMENT RESULT: "D-1117-04_fin"

11/17/2015	Frequency	Level	Transd	Limit	Margin	Détector	Line	PE
	MHz	dB _P V	dB	dB _P V	dB			
	0.385000	10.80	10.7	50	-41.4	Q9	N	GND
	16.255000	25.10	11.4	60	-31.9	Q9	N	GND
	18.290000	24.70	11.4	60	-30.3	Q9	N	GND

MEASUREMENT RESULT: "D-1117-04_fin2"

11/17/2015	Frequency	Level	Transd	Limit	Margin	Détector	Line	PE
	MHz	dB _P V	dB	dB _P V	dB			
	16.255000	24.50	11.4	50	-25.5	N	N	GND
	18.290000	23.10	11.4	50	-26.9	N	N	GND
	22.345000	26.40	11.4	50	-23.6	N	N	GND

Appendix A.10: Conducted Emission of C mode

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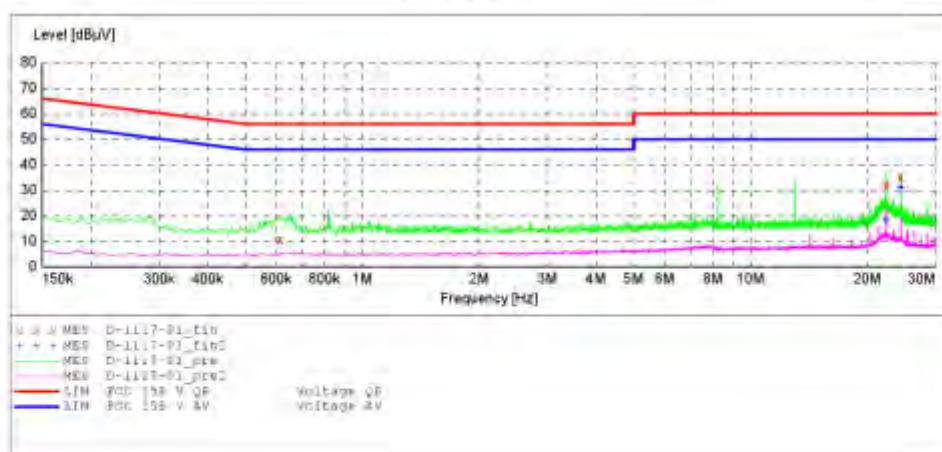
CONDUCTED EMISSION STANDARD FCC PART 15 B

EMI4: Ceramic Heater N/N:DE-HTD308P
Manufacturer: LIANCHUANG
Operating Condition: On
Test Site: 1#Shielding Room
Operator: LAN
Test Specification: N IEC61000-4-2
Comment: Mains Port
Start of Test: 11/17/2019 /

SCAN TABLE: "V 9K-30MHz fin"

SCAN TABLE: V 9K-30MHz LIN Short Description: SUS_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
5.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	N81K8126-200B
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	3 kHz	N81K8126-200B



MEASUREMENT RESULT: "D-1117-01 fin"

31/17/2019

Frequency MHz	Level dBpV	Transd dB	Limit dBpV	Margin dB	Detector	Line	PE
0.615000	10.50	10.7	5e	40.5	QP	N	GND
22.360000	38.10	38.4	60	27.9	QP	N	GND
24.395000	35.20	35.5	60	24.6	QP	N	GND

MEASUREMENT RESULT: "D-1117-01 fin2"

31/47/2013

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.185000	-21.0	10.5	54	58.4	NV	N	GND
22.350000	17.30	11.4	50	32.1	NV	N	GND
24.350000	21.00	11.5	50	19.0	NV	M	GND

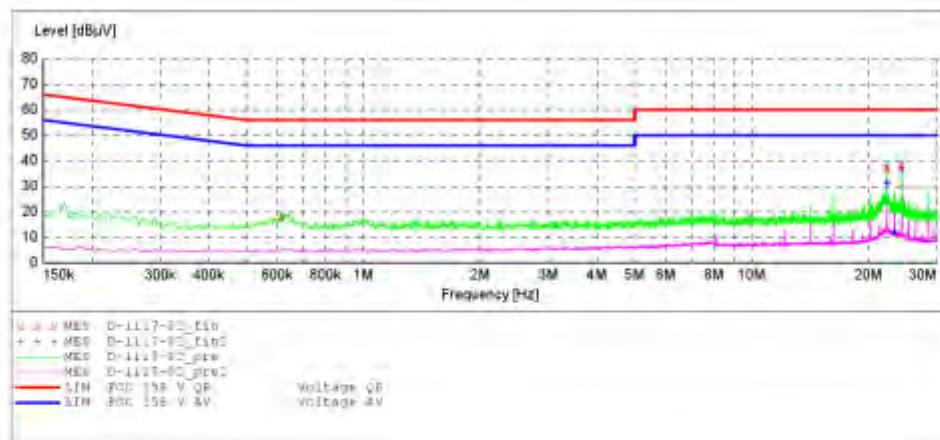
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

BUT: Ceramic Heater M/N:D-E-HT0030P
Manufacturer: LIANCHUANG
Operating Condition: On
Test Site: 1#Shielding Room
Operator: LAN
Test Specification: L 120V/60Hz
Comment: Mains Port
Start of Test: 11/17/2015 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUE_ STD_VTERM2 1.70
Start Stop Step Detector Meas. IF Transducer
Frequency Frequency Width Time Bandw. NSILW0126 2008
5.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSILW0126 2008
150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSILW0126 2008
Average Average



MEASUREMENT RESULT: "D-1117-02_fin"

11/17/2015	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB _µ V	dB	dB _µ V	dB			
	0.620000	17.80	10.8	58	38.2	QF	L1	GND
	22.345000	37.10	11.4	60	22.9	QF	L1	GND
	24.370000	38.30	11.5	60	21.7	QF	L1	GND

MEASUREMENT RESULT: "D-1117-02_fin2"

11/17/2015	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB _µ V	dB	dB _µ V	dB			
	22.345000	31.20	11.4	50	18.6	AV	L1	GND
	23.365000	31.40	11.5	50	18.4	AV	L1	GND
	24.370000	36.80	11.5	50	13.2	AV	L1	GND

Appendix A.11: Radiated Emission of C mode



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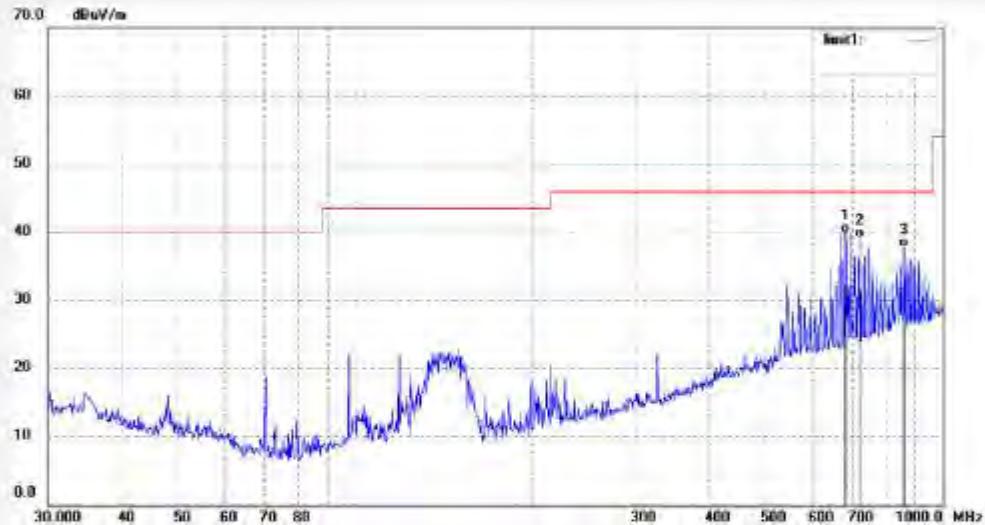
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	lan2015 #3888	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	15/12/15/
Temp.(C)/Hum. (%)	23 C / 48 %	Time:	
EUT:	Ceramic Heater	Engineer Signature:	
Mode:	On	Distance:	3m
Model:	DF-HT5338P		
Manufacturer:	LIANCHUANG		
Note:			



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	682.3484	41.87	-2.00	39.87	46.00	-6.13	QP			
2	721.7259	40.62	-1.46	39.16	46.00	-6.84	QP			
3	860.0352	36.90	0.86	37.76	46.00	-8.24	QP			



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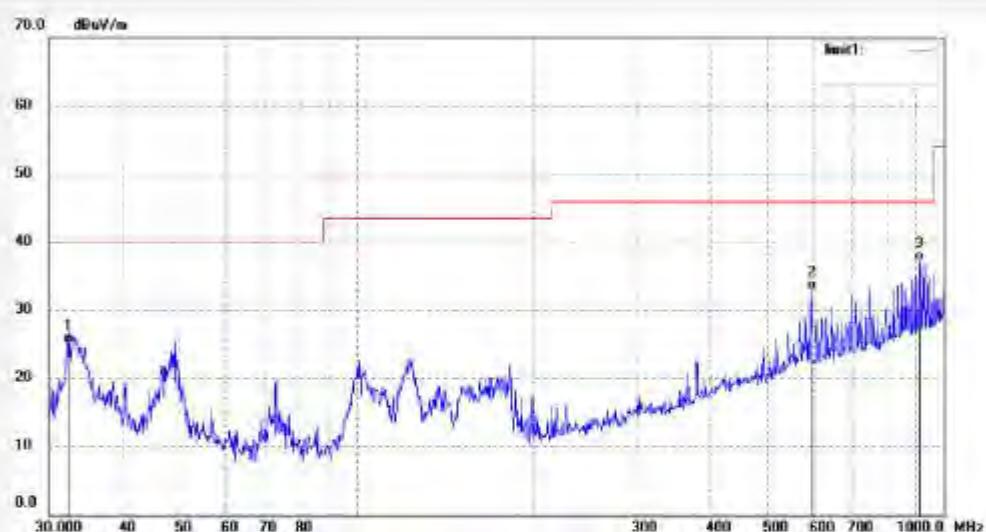
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: IAN2015 #3889
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: On
Model: DF-HT5338P
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note:



No.	Freq (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.4059	33.87	-8.80	25.07	40.00	-14.93	QP			
2	595.1327	35.97	-3.02	32.95	46.00	-13.05	QP			
3	909.6666	35.82	1.34	37.16	46.00	-8.84	QP			



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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: Jan2015 #3890

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test Item: Radiation Test

Date: 15/12/15/

Temp. (C)/Hum. (%) 23 C / 48 %

Time:

EUT: Ceramic Heater

Engineer Signature:

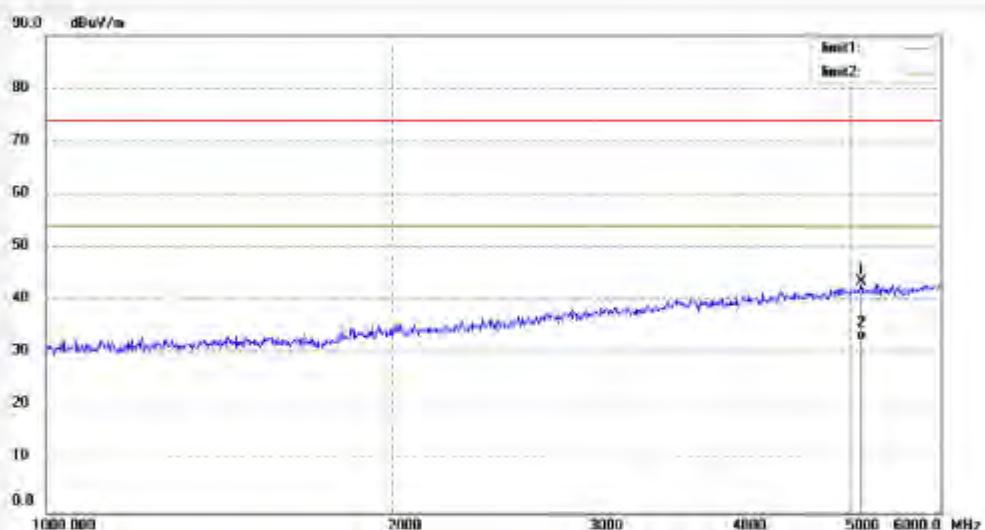
Mode: On

Distance: 3m

Model: DF-HT5338P

Manufacturer: LIANCHUANG

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5115.591	43.11	0.39	43.50	74.00	-30.50	peak			
2	5115.591	32.05	0.39	32.44	54.00	-21.56	Avg			



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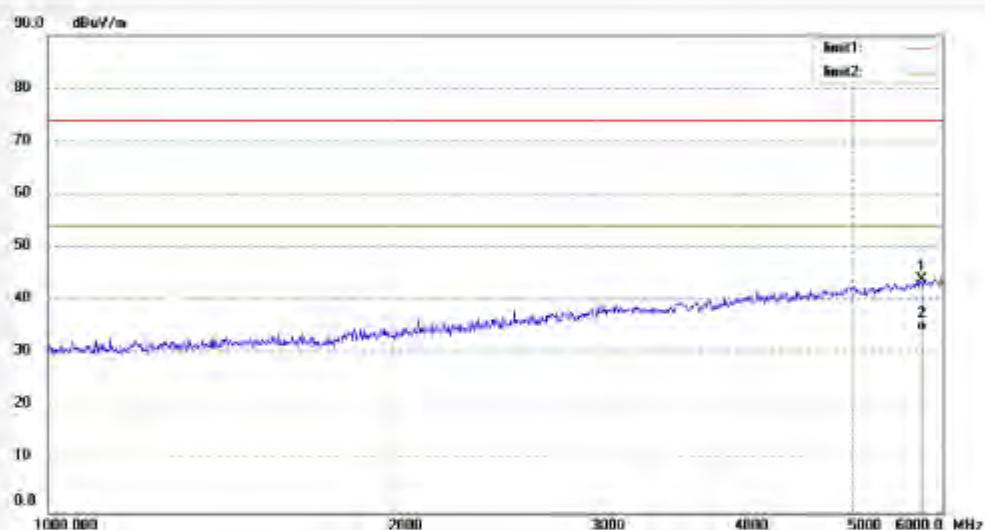
F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Jan2015 #3891
Standard: FCC Class B 3M Radiated
Test Item: Radiation Test
Temp. (C)/Hum. (%) 23 C / 48 %
EUT: Ceramic Heater
Mode: On
Model: DF-HT533BP
Manufacturer: LIANCHUANG

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/12/15/
Time:
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5757.763	42.43	1.61	44.04	74.00	-29.96	peak			
2	5757.763	32.66	1.61	34.27	54.00	-19.73	AVG			