

FCC Part 15E **Measurement and Test Report**

For

BBB Inc.

28, Yatap-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea

FCC ID: 2AKGP-EZ100W

FCC Rule(s): FCC Part 15E

Product Description: Mobile Phone

Tested Model: EZ-100

Report No.: STR17118174I-3

Sample Receipt Date: 2017-11-15

Tested Date: 2017-11-16 to 2017-12-28

Issued Date: 2017-12-29

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.



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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: BBB Inc.

Address of applicant: 28, Yatap-ro, Bundang-gu, Seongnam-si, Gyeonggi-do,

South Korea

Manufacturer: BBB Inc.

Address of manufacturer: 28, Yatap-ro, Bundang-gu, Seongnam-si, Gyeonggi-do,

South Korea

General Description of EUT				
Product Name:	Mobile Phone			
Brand Name:	elemark, Mobihealth			
Model No.:	EZ-100			
Adding Model:	1			
Hardware Version:	I3501-MB-V2			
Software Version:	3501_65u_l1			
Rated Voltage:	Battery DC3.8V			
Battery capacity:	3000mAh			
Power Adapter Model:	1			
Note: The test data is gathered from a production sample provided by the manufacturer.				

Technical Characteristics of EUT				
Support Standards:	802.11a, 802.11n(HT20), 802.11n(HT40)			
Frequency Range:	5150-5250MHz, 5250-5350MHz,			
	5470-5725MHz, 5725-5850MHz			
RF Output Power:	8.52dBm (Conducted)			
Type of Modulation:	QPSK, 16QAM, 64QAM			
Data Rate:	6-54Mbps, up to 150Mbps			
Type of Antenna:	Integral			
Antenna Gain:	1.92dBi			
Lowest Internal Frequency	32.768kHz			

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TEST Model: EZ-100

1.2 Test Standards

The following report is prepared on behalf of the BBB Inc. in accordance with FCC Part 15, Subpart C&E, and section 15.203, 15.205, 15.207, 15.209 and 15.407 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C&E, and section 15.203, 15.205, 15.207, 15.209 and 15.407 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. The measurement guide KDB 789033 D02 v01r02 for Unlicensed National Information Infrastructure (U-NII) Devices shall be performed also.

1.4 Table for parameters of Test Software setting

Enter "*#*#3646633#*#*" in the dialer of the device, slide to the left, choose connectivity, start to test. During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

	Test Frequency (MHz)											
Mode		NCB: 20MHz										
	5180	5200	5240	5260	5280	5320	5500	5600	5700	5745	5785	5825
802.11a 6Mbps	19	19	19	15	15	15	15	15	15	15	15	15
802.11n-HT20 MCS0	19	19	19	15	15	15	15	15	15	15	15	15
Mode		NCB: 40MHz										
Mode	5190) 5	5230	5270	53	10	5510	5590	567	0 5	755	5795
802.11n-HT40 MCS0	19		19	15	1:	5	15	15	15		15	15

1.5 EUT Operating during test

EUT was programmed to be in continuously transmitting mode. During the test, EUT operation to normal function and programs under Android were executed.

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TEST Model: EZ-100

1.6 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.7 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List					
Test Mode	Description	Remark			
TM1	TM1 802.11a	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,55			
11/11		00MHz,5600MHz,5700MHz,5745MHz,5785MHz,5825MHz			
TM2	802.11n-HT20	5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,55			
11V12		00MHz,5600MHz,5700MHz,5745MHz,5785MHz,5825MHz			
TM3	TM2 000 11 UT 40	5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5590MHz,56			
TM3 802.11n-HT40	70MHz,5755MHz,5795MHz				

Note: All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report.

EUT Cable List and Details					
Cable Description	Length (m)	Shielded/Unshielded	With / Without Core		
/	/	/	/		

Accessories Cable List and Details					
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite		
Earphone	1.5	Unshielded	Without Core		
USB Cable	1.0	Shielded	Without Core		

Auxiliary Equipment List and Details					
Description	Manufacturer	Model	Serial Number		
Notebook	Lenovo	E445	/		
AC to DC Adapter	/	Y733-20	/		

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1.8 Measurement Uncertainty

Measurement uncertainty				
Parameter	Conditions	Uncertainty		
RF Output Power	Conducted	±0.42dB		
Occupied Bandwidth	Conducted	±1.5%		
Power Spectral Density	Conducted	±1.8dB		
Conducted Spurious Emission	Conducted	±2.17dB		
Conducted Emissions	Conducted	9-150kHz ±3.74dB		
Conducted Emissions		$0.15\text{-}30\text{MHz} \pm 3.34\text{dB}$		
		30-200MHz ±4.52dB		
Transmitter Spurious Emissions	D 11 4 1	0.2-1GHz ±5.56dB		
	Radiated	1-6GHz ±3.84dB		
		6-18GHz ±3.92dB		

1.9 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2017-06-12	2018-06-11
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2017-06-12	2018-06-11
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2017-06-12	2018-06-11
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2017-06-12	2018-06-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2017-06-12	2018-06-11
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2018-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2018-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2018-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2018-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2017-06-12	2018-06-11
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2017-06-12	2018-06-11
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2017-06-12	2018-06-11
SEMT-1168	Pre-amplifier	Direction Systems	PAP-0126	14141-12838	2017-08-15	2018-08-14
SEWI1-1100	r re-ampimer	Inc.	FAF-0120	14141-12030	2017-06-13	2010-00-14
SEMT-1169	Pre-amplifier	Direction Systems	PAP-2640	14145-14153	2017-08-15	2018-08-14
SLWII-1109	r re-ampimer	Inc.	1A1 -2040	14145-14155	2017-00-13	2010-00-14
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2017-06-12	2018-06-11
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2017-03-09	2018-03-08

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2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 15.203; § 15.405	Antenna Requirement	Compliant
§ 15.207; § 15.407(b)(6)	Conducted Emission	Compliant
§ 15.407(a)(1),(2)	Power Spectral Density	Compliant
§ 15.407(e)	Emission Bandwidth and Occupied Bandwidth	Compliant
§ 15.407(a)(1),(2)	Maximum Conducted Output Power	Compliant
§ 15.407(b)(1),(2),(3)	Conducted Spurious Emission	Compliant
§ 15.205; § 15.407(b)(1),(2),(3)	Radiated Emission	Compliant
§ 15.407(g)	Frequency Stability	Compliant
§ 15.407(h)	Dynamic Frequency Selection (DFS)	Refer to DFS report

N/A: not applicable



3. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the SAR Report.

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4.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

4.2 Evaluation Information

This product has an integral antenna, fulfill the requirement of this section.

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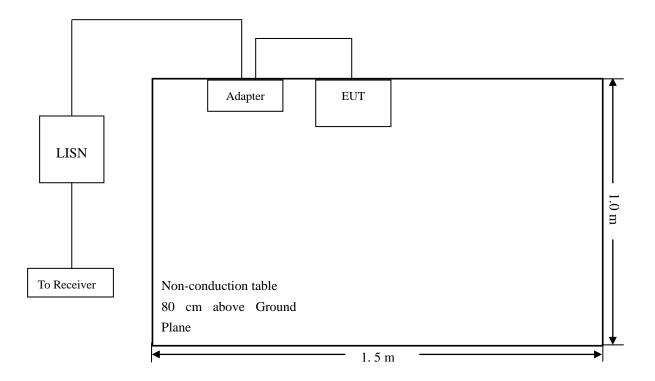
5. Conducted Emissions

5.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

5.3 Basic Test Setup Block Diagram



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TEST Model: EZ-100

5.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

5.5 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	. 150 kHz
Stop Frequency	. 30 MHz
Sweep Speed	. Auto
IF Bandwidth	. 10 kHz
Quasi-Peak Adapter Bandwidth	.9 kHz
Quasi-Peak Adapter Mode	. Normal

5.6 Summary of Test Results/Plots

According to the data in section 5.7, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for a Class B device, with the *worst* margin reading of:

-11.69 dB at 0.2100 MHz in the Neutral, QP detector, 0.15-30MHz

5.7 Conducted Emissions Test Data

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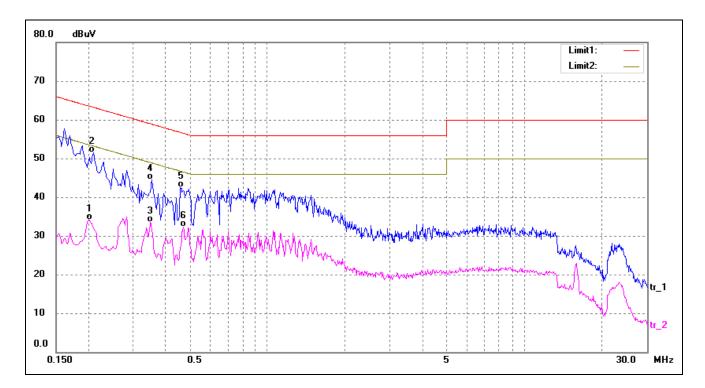


Plot of Conducted Emissions Test Data

EUT: Mobile Phone

Tested Model: EZ-100
Operating Condition: Transmiting
Comment: AC 120V/60Hz;

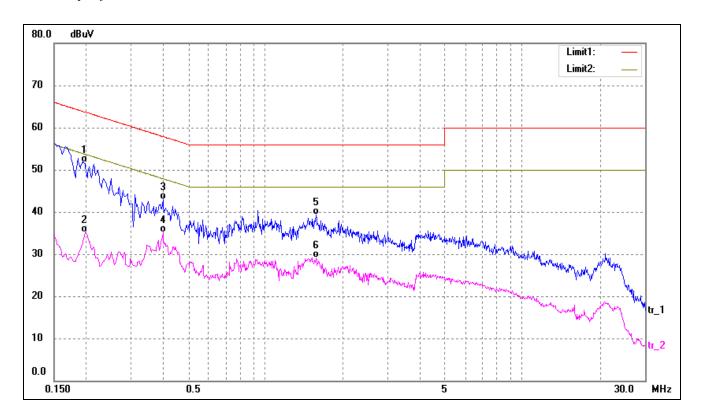
Test Specification: Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.2020	24.25	9.80	34.05	53.53	-19.48	AVG
2*	0.2100	41.72	9.80	51.52	63.21	-11.69	QP
3	0.3500	23.67	9.80	33.47	48.96	-15.49	AVG
4	0.3540	34.64	9.80	44.44	58.87	-14.43	QP
5	0.4580	32.69	9.80	42.49	56.73	-14.24	QP
6	0.4700	22.42	9.80	32.22	46.51	-14.29	AVG



Test Specification: Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1945	41.98	9.81	51.79	63.84	-12.05	QP
2	0.1980	25.31	9.80	35.11	53.69	-18.58	AVG
3	0.3980	33.11	9.80	42.91	57.90	-14.99	QP
4	0.3980	25.40	9.80	35.20	47.90	-12.70	AVG
5	1.5740	29.51	9.75	39.26	56.00	-16.74	QP
6	1.5740	19.29	9.75	29.04	46.00	-16.96	AVG



TEST Model: EZ-100

6. Power Spectral Density

6.1 Standard Applicable

Section 15.407(a) Power limits:

- (1) For the band 5.15-5.25 GHz.
- (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

6.2 Test Procedure

According to 789033 D02 General UNII Test Procedures New Rules v01, the following is the measurement procedure.

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

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- a) Set RBW $\geq 1/T$, where T is defined in section II.B.l.a).
- b) Set VBW \geq 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in $500 \, \text{kHz}$, add $10 \log (500 \, \text{kHz/RBW})$ to the measured result, whereas RBW ($< 500 \, \text{KHz}$) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

6.3 Environmental Conditions

Temperature:	20° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

6.4 Summary of Test Results/Plots

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5150-5250MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)	
	5180	1.964	11	
802.11a	5200	1.723	11	
	5240	2.199	11	
802.11n-HT20	5180	1.425	11	
	5200	1.792	11	
	5240	2.179	11	
802.11n-HT40	5190	-1.532	11	
	5230	-0.659	11	

5250-5350MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz))
	5260	2.122	11
802.11a	5280	1.273	11
	5320	1.521	11
802.11n-HT20	5260	1.765	11
	5280	1.765	11
	5320	1.696	11
802.11n-HT40	5270	-1.298	11
	5310	-1.373	11

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5470-5725MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)	
	5500	-0.108	11	
802.11a	5600	-0.880	11	
	5700	-1.102	11	
802.11n-HT20	5500	-0.025	11	
	5600	-0.571	11	
	5700	-0.765	11	
802.11n-HT40	5510	-2.438	11	
	5590	-3.746	11	
	5670	-4.253	11	

5725-5850MHz

Operating mode	Test Channel	Power Spectral Density dBm/510kHz	Power Spectral Density* dBm/500kHz	Limit (dBm/500kHz)
	5745	-1.553	1.447	30
802.11a	5785	-1.661	1.339	30
	5825	-2.146	0.854	30
802.11n-HT20	5745	-2.350	0.650	30
	5785	-1.864	1.136	30
	5825	-2.092	0.908	30
802.11n-HT40	5755	-5.620	-2.620	30
	5795	-5.198	-2.198	30
*Note: Maximum PSD=PSD(dBm/510kHz)+10log(1MHz/510kHz)=3				

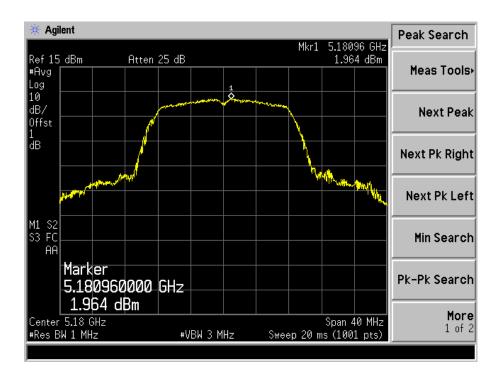
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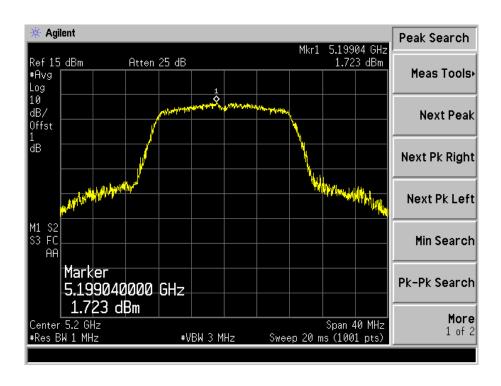


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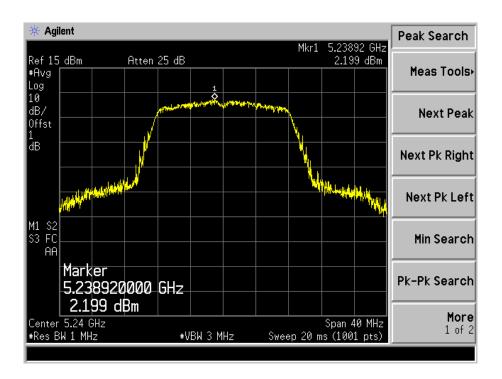
Test Mode: 802.11a

5180MHz

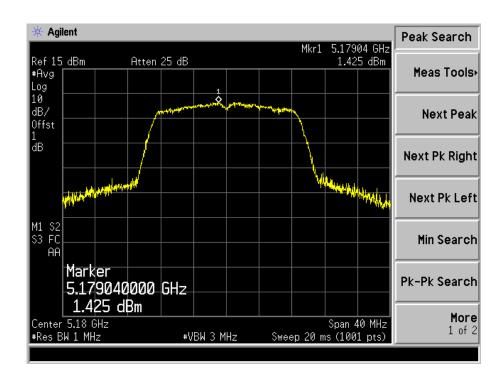




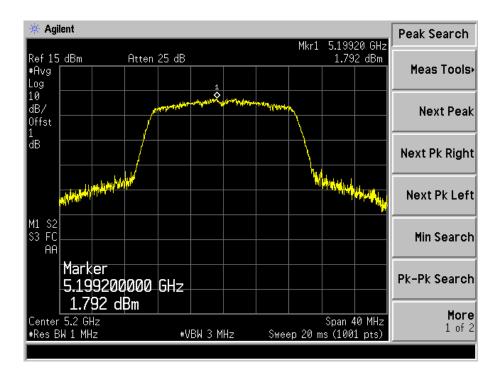


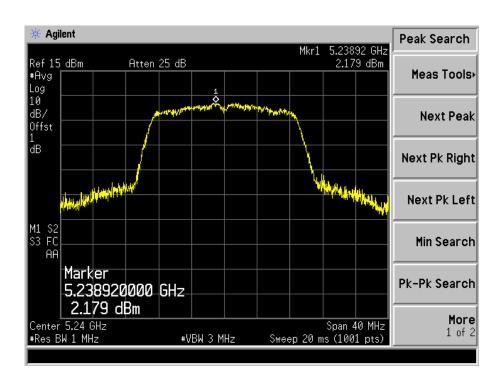


Test Mode: 802.11n-HT20





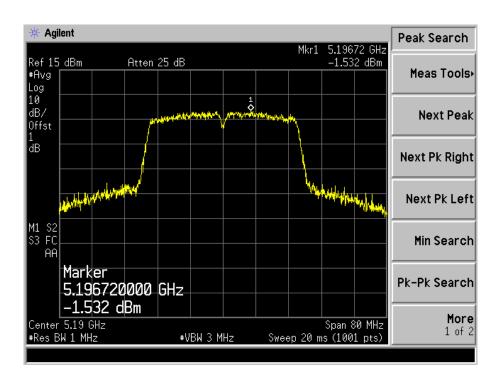


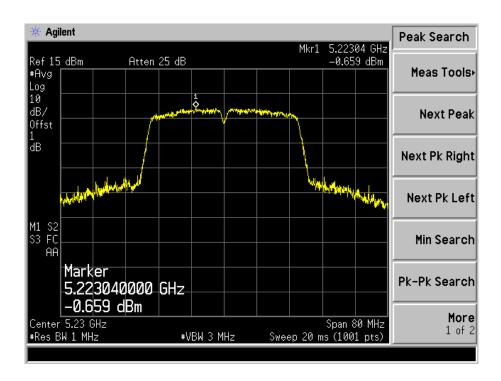




Test Mode: 802.11n-HT40

5190MHz



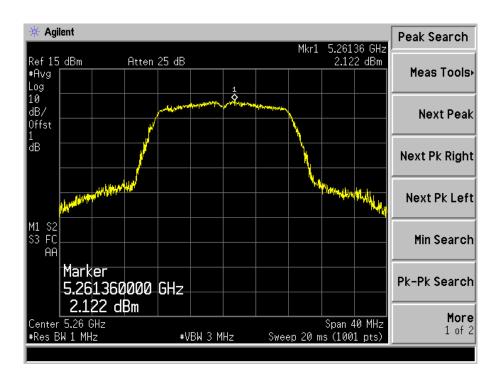


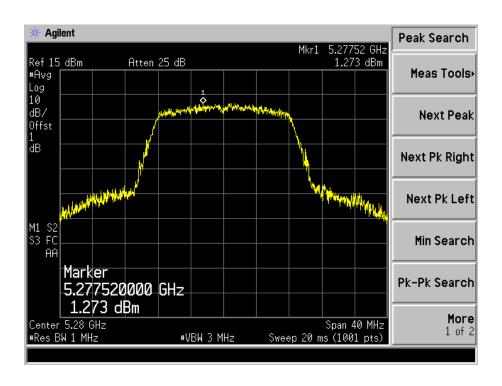


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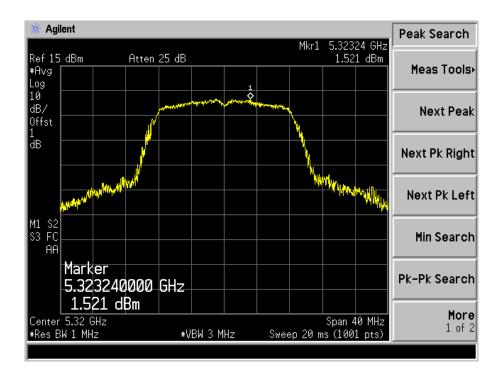
Test Mode: 802.11a

5260MHz

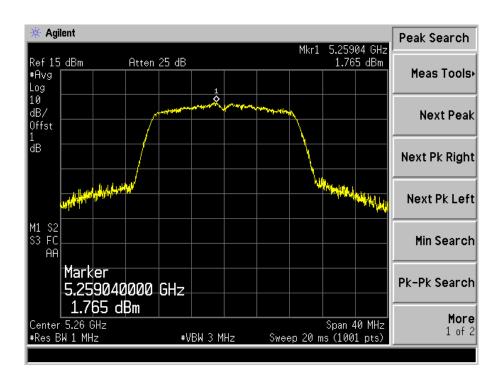




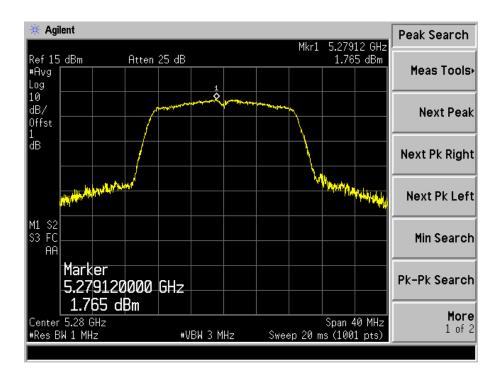


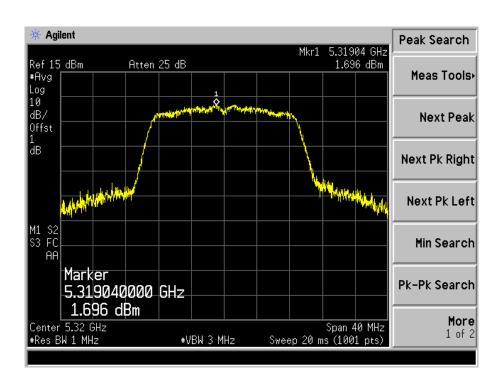


Test Mode: 802.11n-HT20





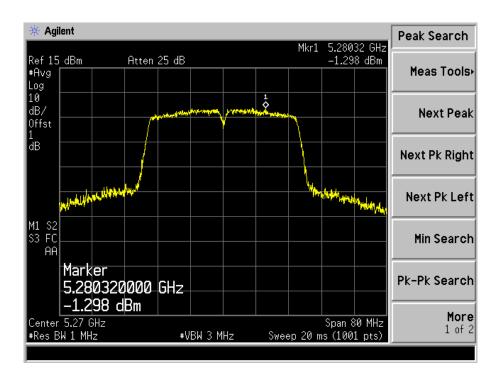


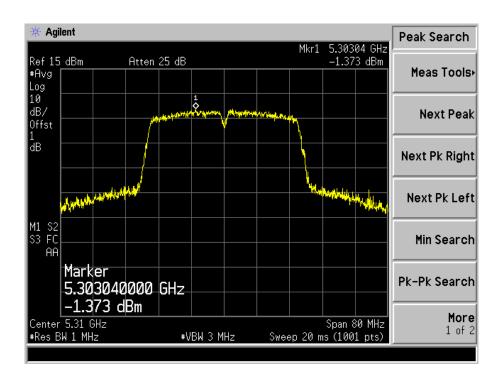




Test Mode: 802.11n-HT40

5270MHz



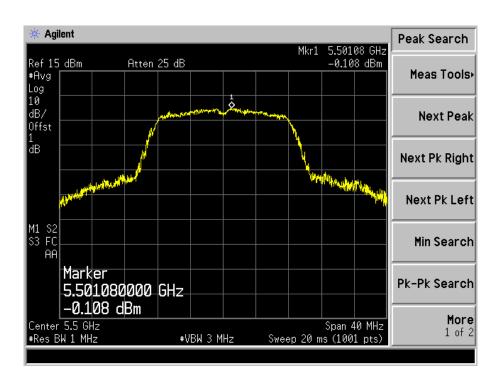


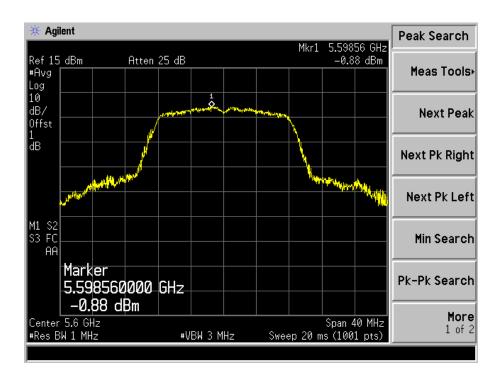


5470-5725MHz

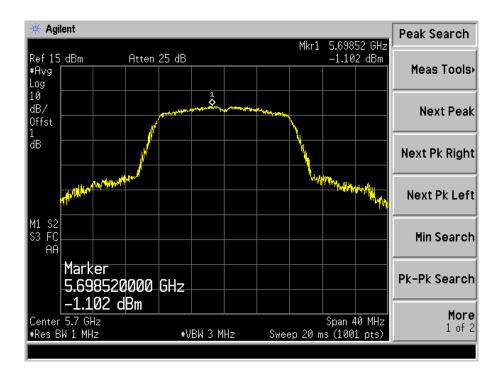
Test Mode: 802.11a

5500MHz

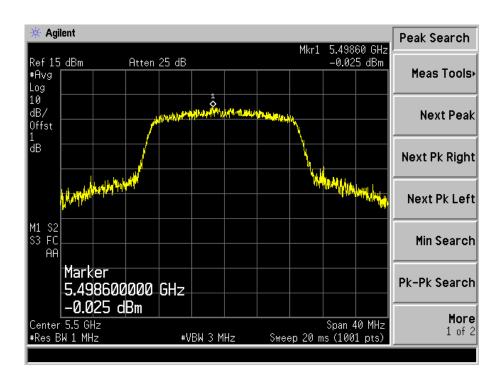




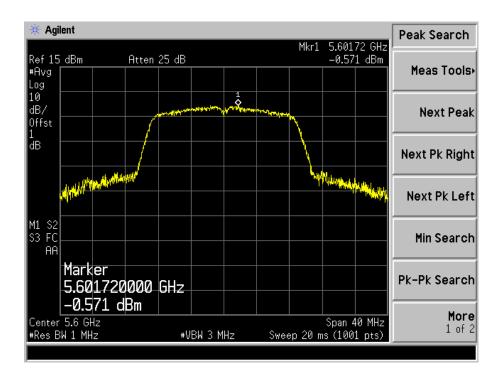


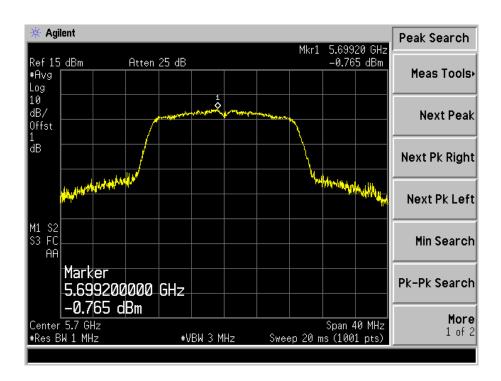


Test Mode: 802.11n-HT20





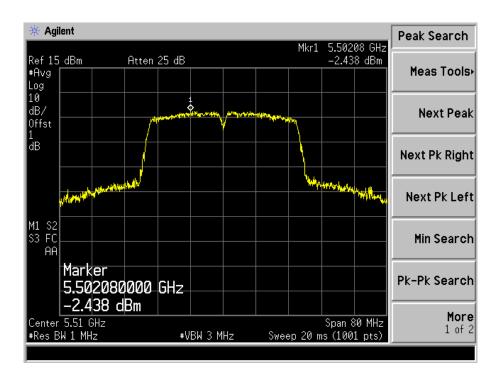


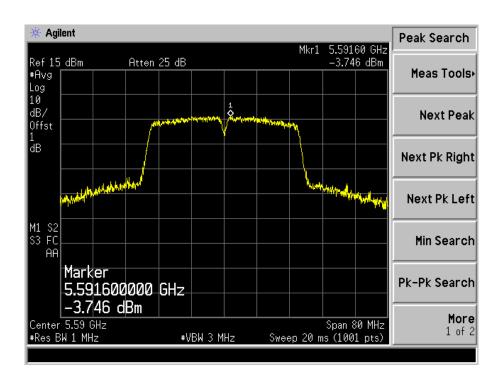




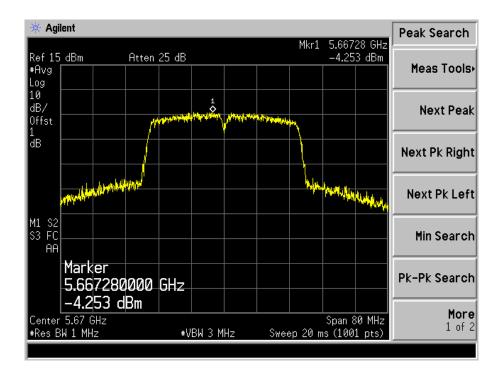
Test Mode: 802.11n-HT40

55100MHz









5725-5850MHz *Test Mode:* 802.11a











Test Mode: 802.11n-HT20

5745MHz









Test Mode: 802.11n-HT40









TEST Model: EZ-100

7. Emission Bandwidth and Occupied Bandwidth

7.1 Standard Applicable

According to 15.407 (a) and (e)

- (1) For the band 5.15-5.25 GHz.
- (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

7.2 Test Procedure

According to 789033 D02 v01r02 section C&D, the following is the measurement procedure.

- 1. Emission Bandwidth (EBW)
- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare

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TEST Model: EZ-100

this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

D. 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section II.G.3.d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the EBW to 789033 D02 v01r02 General UNII Test Procedures New Rules v01 define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW ≥ 3 RBW
- 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- 6. Use the 99 % power bandwidth function of the instrument (if available).
- 7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

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7.3 Environmental Conditions

Temperature:	24° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

7.4 Summary of Test Results/Plots

5150-5250MHz

Test Mode	Test Channel MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz
	5180	19.537	16.7136	Pass
802.11a	5200	19.817	16.7130	Pass
	5240	19.789	16.6963	Pass
802.11n-HT20	5180	19.992	17.6442	Pass
	5200	19.890	17.6674	Pass
	5240	19.939	17.6462	Pass
802.11n-HT40	5190	40.928	36.2349	Pass
	5230	40.928	36.2349	Pass

5250-5350MHz

Test Mode	Test Channel MHz	26 dB Bandwidth MHz	99% Bandwidth MHz	Limit MHz
	5260	19.903	16.8684	Pass
802.11a	5280	19.729	16.8002	Pass
	5320	19.663	16.6836	Pass
802.11n-HT20	5260	19.856	17.6429	Pass
	5280	19.918	17.6569	Pass
	5320	19.864	17.6456	Pass
802.11n-HT40	5270	40.769	36.1966	Pass
	5310	40.761	36.2262	Pass

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5470-5725MHz

Test Mode	Test Channel	26 dB Bandwidth	99% Bandwidth	Limit
Test Mode	MHz	MHz	MHz	MHz
	5500	19.721	16.7810	Pass
802.11a	5600	19.981	16.7298	Pass
	5700	19.526	16.7215	Pass
802.11n-HT20	5500	19.905	17.6684	Pass
	5600	19.761	17.6983	Pass
	5700	19.886	17.6951	Pass
802.11n-HT40	5510	41.328	36.3634	Pass
	5590	40.960	36.2961	Pass
	5670	41.300	36.3434	Pass

5725-5850MHz

Test Mode	Test Channel	6 dB Bandwidth	99% Bandwidth	Limit
lest Wioue	MHz	MHz	MHz	MHz
	5745	16.278	16.7802	≥500
802.11a	5785	16.054	16.8195	≥500
	5825	16.157	16.7498	≥500
802.11n-HT20	5745	17.436	17.6599	≥500
	5785	17.418	17.6830	≥500
	5825	17.370	17.6674	≥500
802.11n-HT40	5755	36.04	36.012	≥500
	5795	35.81	35.995	≥500

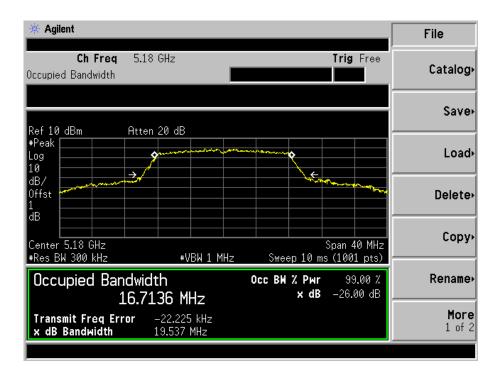
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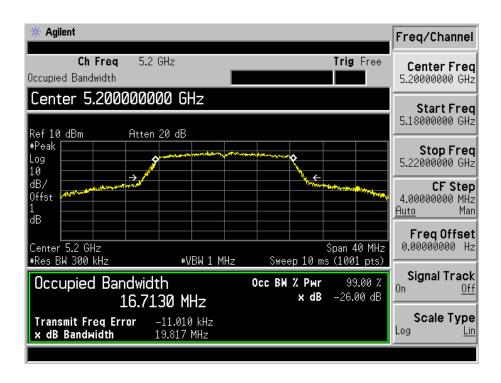


5150-5250MHz

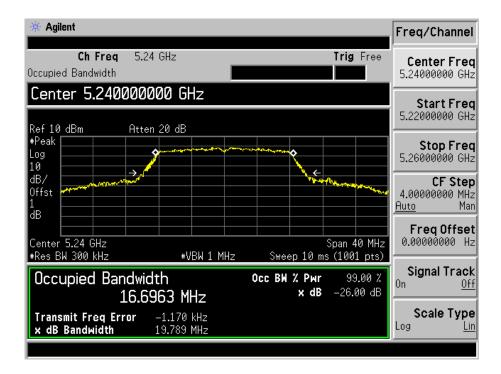
Test mode: 802.11a

5180MHz

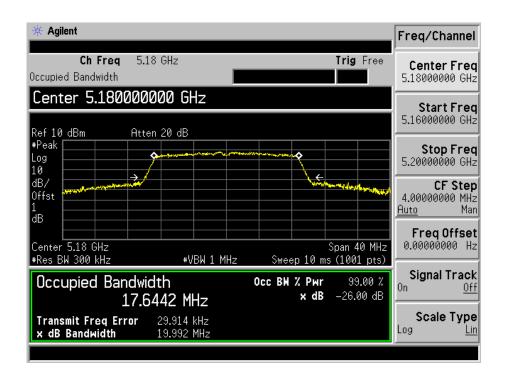




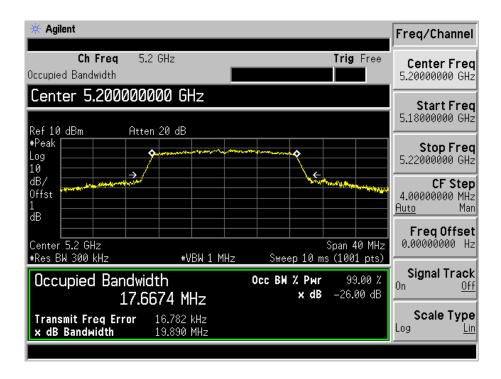


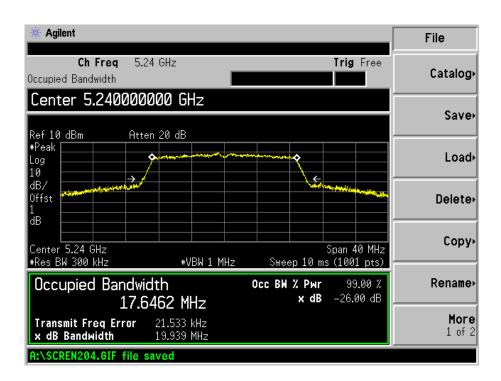


Test mode: 802.11n-HT20





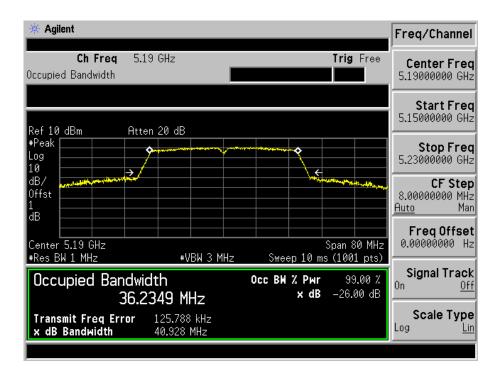


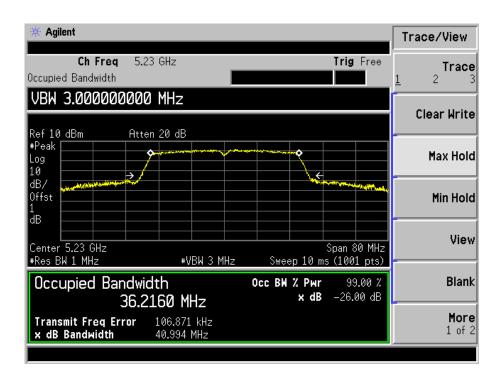




Test mode: 802.11n-HT40

5190MHz



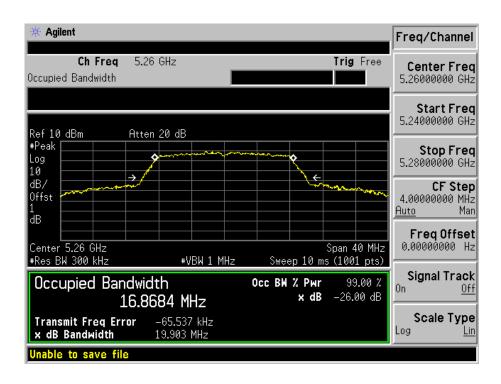


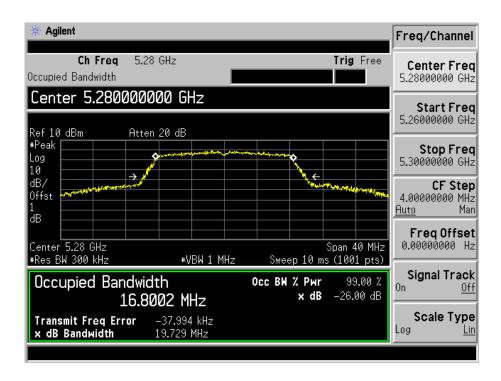


5250-5350MHz

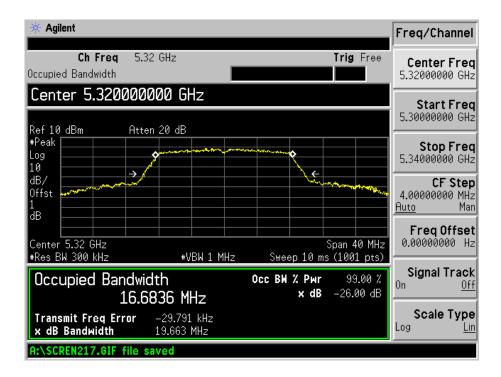
Test mode: 802.11a

5260MHz

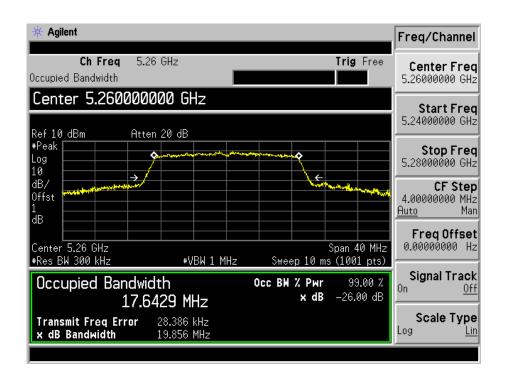




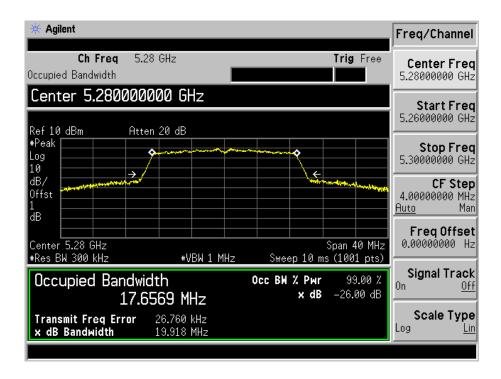


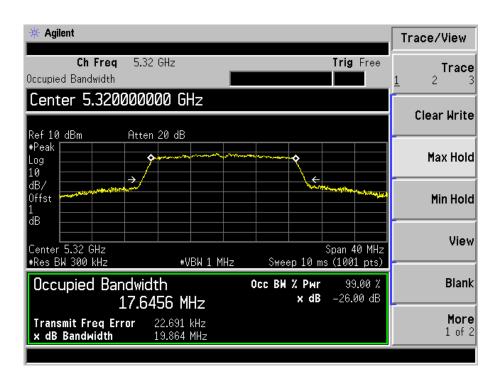


Test mode: 802.11n-HT20





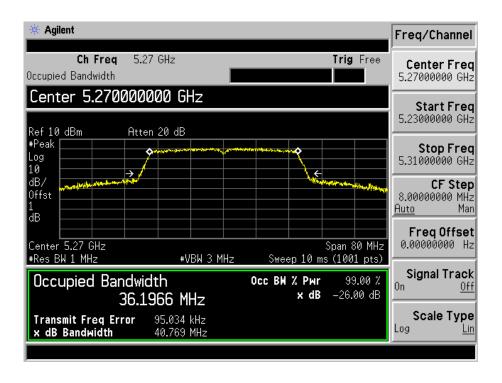


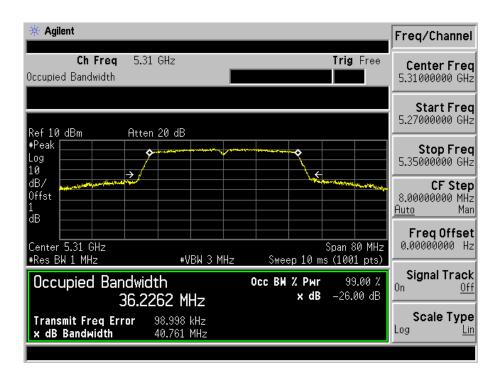




Test mode: 802.11n-HT40

5270MHz



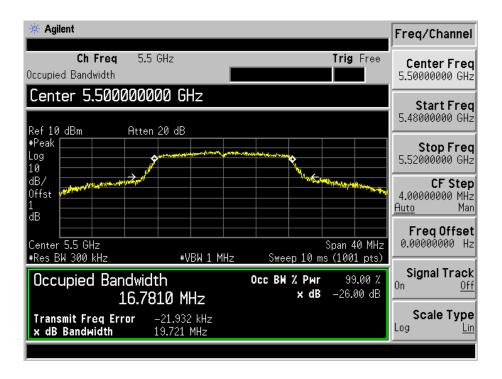


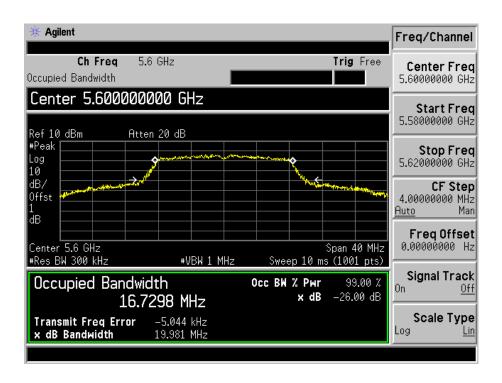


5470-5725MHz

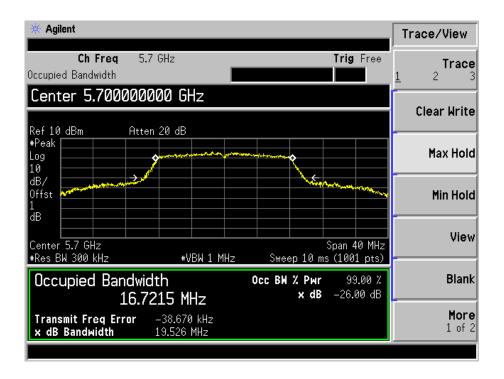
Test mode: 802.11a

5500MHz

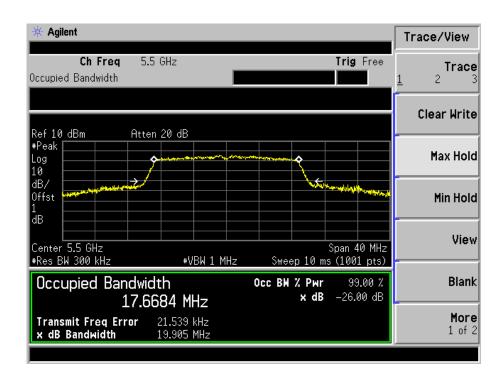




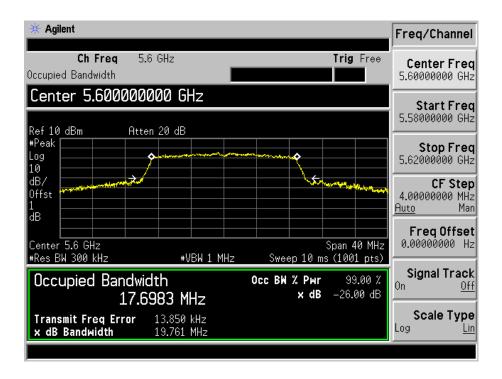


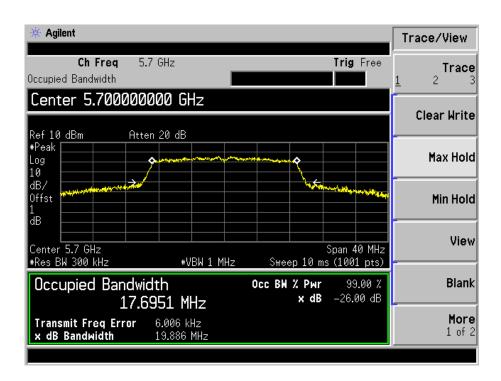


Test mode: 802.11-HT20





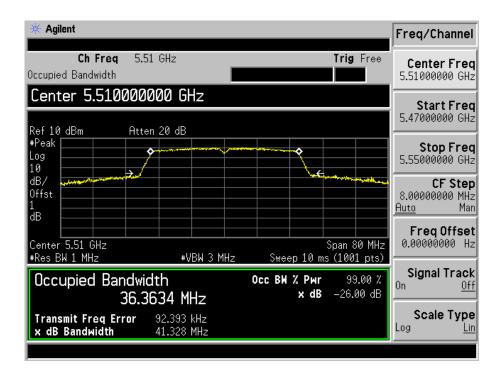


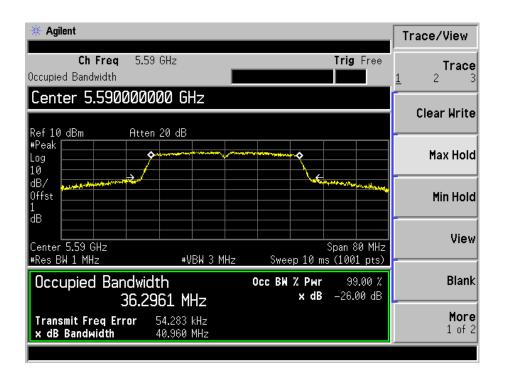




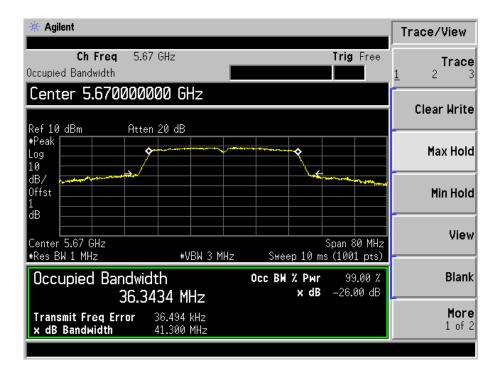
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5510MHz



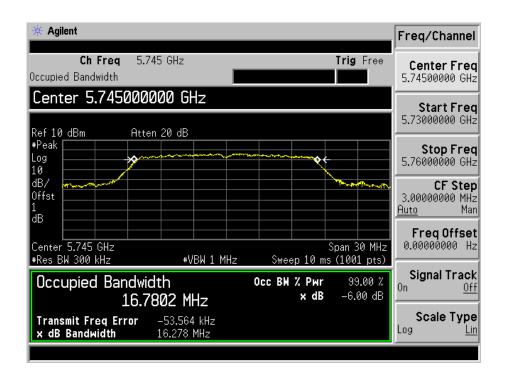




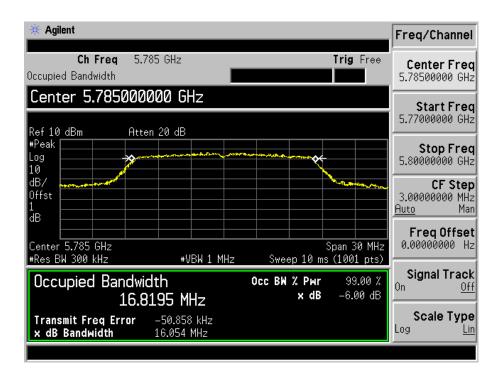


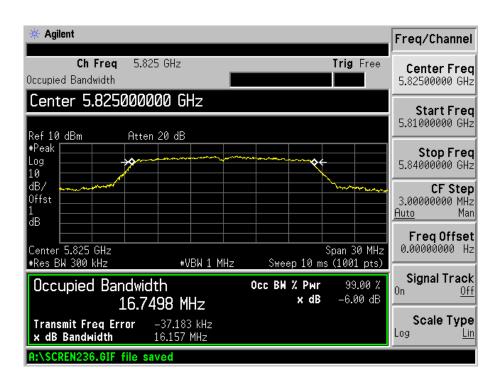
5725-5850MHz

Test mode: 802.11a





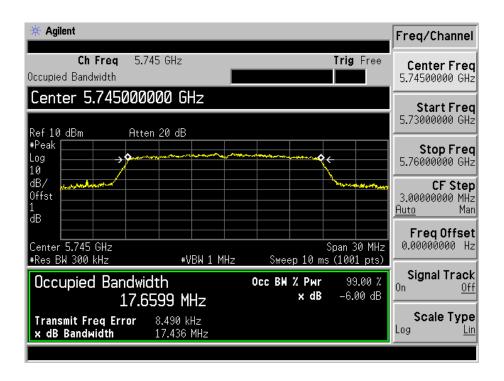


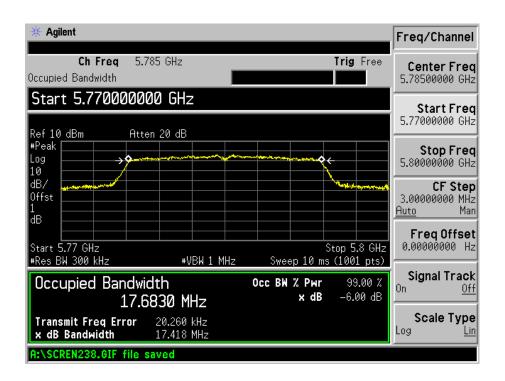




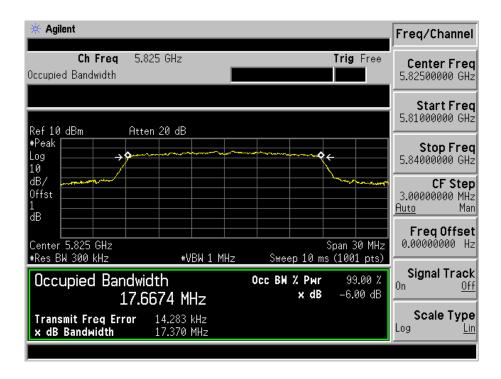
Test mode: 802.11-HT20

5745MHz

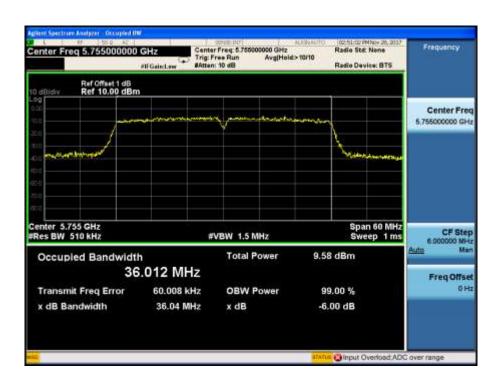








Test mode: 802.11-HT40









TEST Model: EZ-100

8. Maximum Conducted Output Power

8.1 Standard Applicable

Section 15.407(a) Power limits:

- (1) For the band 5.15-5.25 GHz.
- (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

8.2 Test Procedure

According to KDB789033 D02 v01r02 section E, the following is the measurement procedure.

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set $VBW \ge 3$ MHz.
- (iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.

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- (vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \ge 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- (viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

8.3 Environmental Conditions

Temperature:	26° C
Relative Humidity:	65%
ATM Pressure:	1011 mbar

8.4 Summary of Test Results/Plots

For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz

Test mode	Frequency	Output Power	Output Power	Limit
	MHz	dBm	mW	mW
	5180	5.76	3.767	250
	5200	6.15	4.121	250
	5240	5.89	3.882	250
	5260	6.57	4.539	250
	5280	6.23	4.198	250
902.11	5320	6.08	4.055	250
802.11a	5500	5.05	3.199	250
	5600	4.82	3.034	250
	5700	5.21	3.319	250
	5745	5.17	3.289	1000
	5785	4.90	3.090	1000
	5825	5.14	3.266	1000
	5180	7.88	6.138	250
	5200	8.52	7.112	250
	5240	8.51	7.096	250
802.11n-HT20	5260	5.28	3.373	250
	5280	7.23	5.284	250
	5320	7.16	5.200	250
	5500	5.33	3.412	250
	5600	5.87	3.864	250

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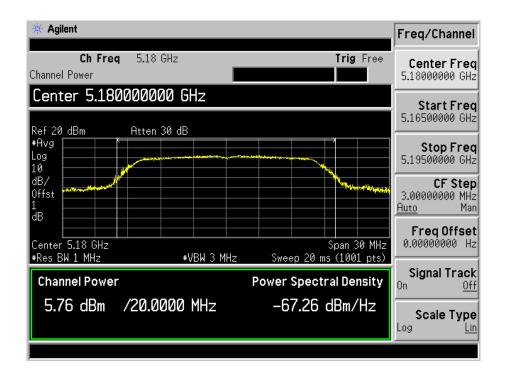
Model: EZ-100

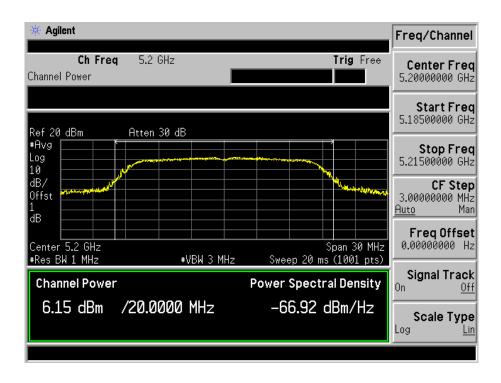
	5700	5.13	3.258	250
	5745	5.73	3.741	1000
	5785	5.89	3.882	1000
	5825	5.39	3.459	1000
	5190	5.57	3.606	250
	5230	6.35	4.315	250
802.11n-HT40	5270	6.30	3.365	250
	5310	6.25	3.396	250
	5510	5.61	3.639	250
	5590	4.95	3.126	250
	5670	4.40	2.754	250
	5755	4.79	3.013	1000
	5795	4.20	2.630	1000



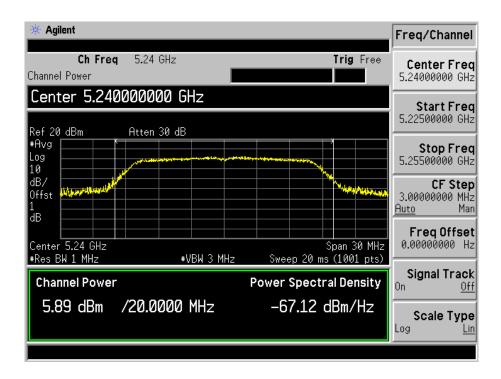
Test Mode: 802.11a

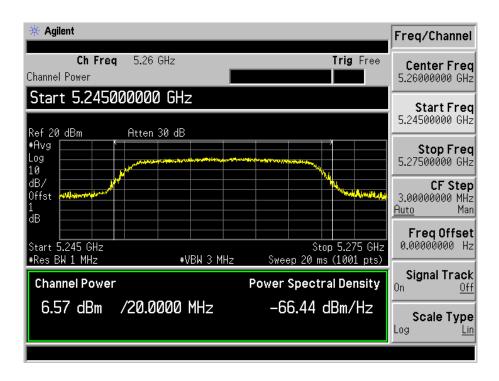
5180MHz



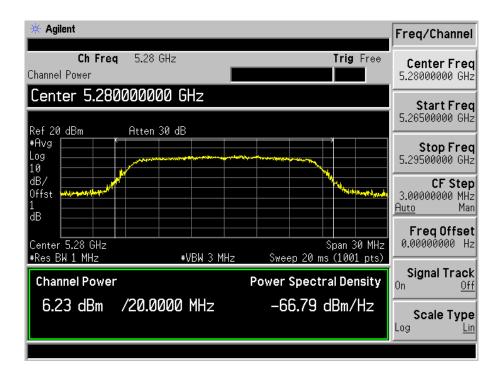


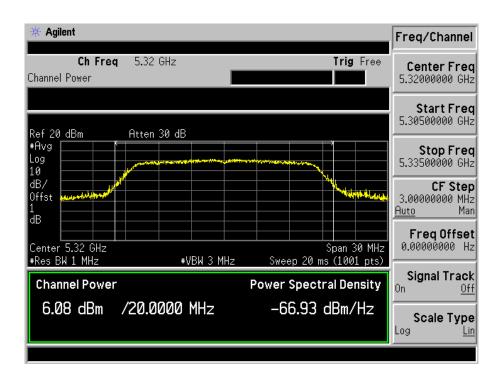




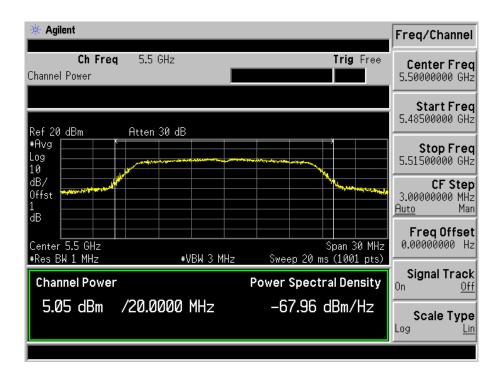


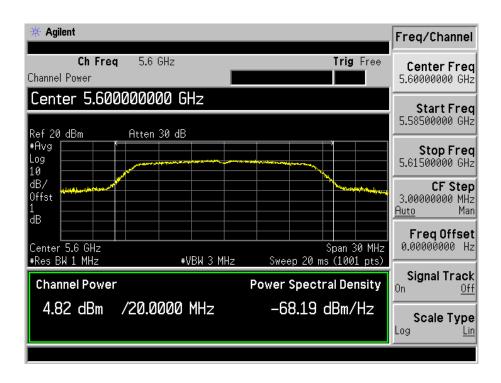




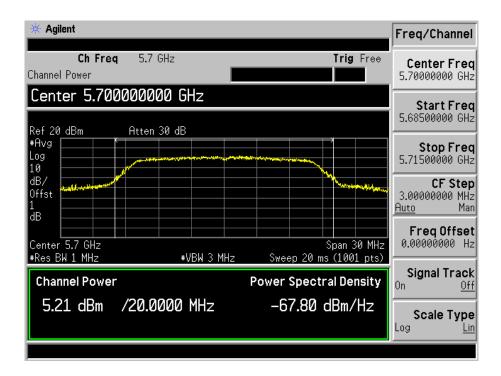


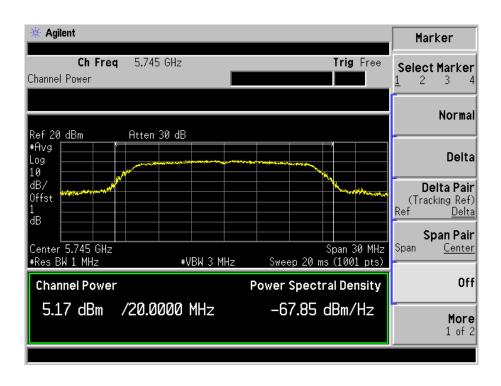




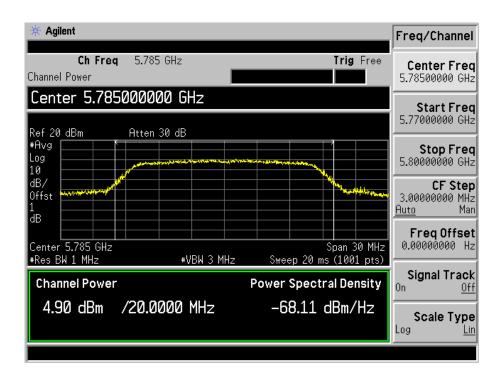


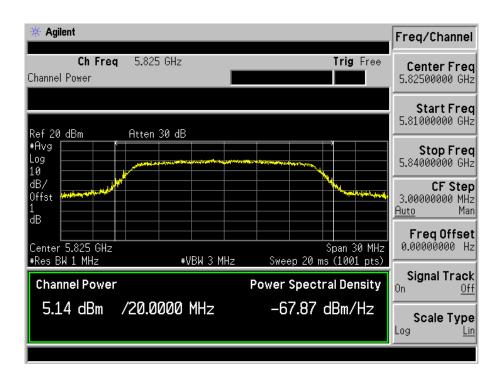








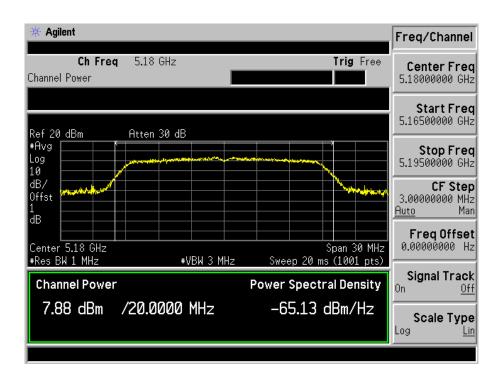


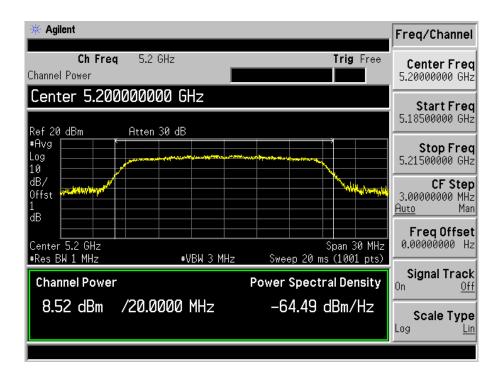




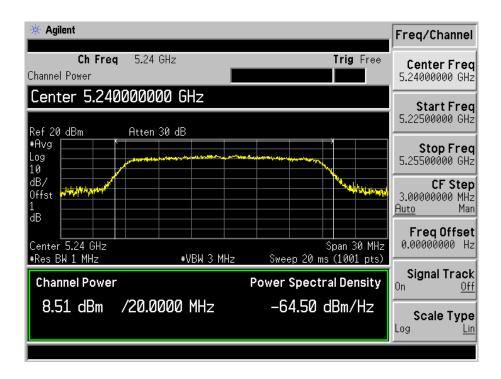
Test Mode: 802.11n-HT20

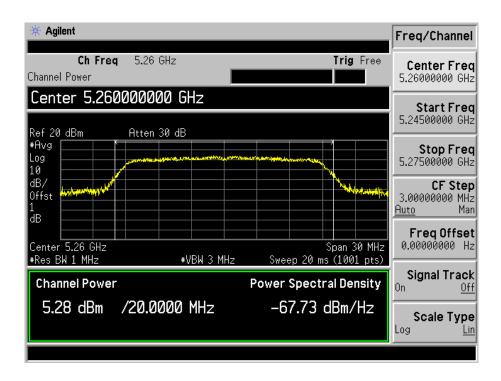
5180MHz



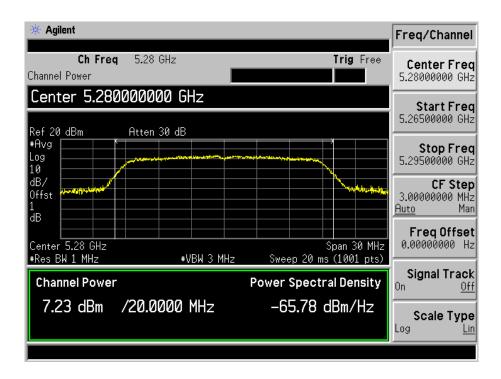


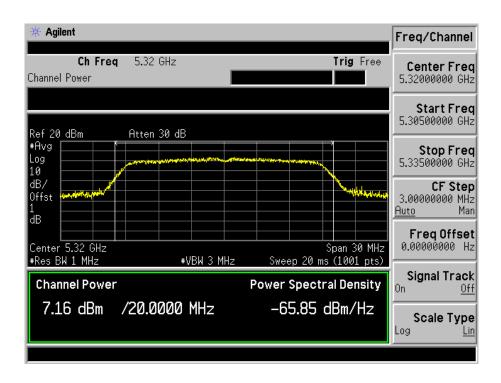








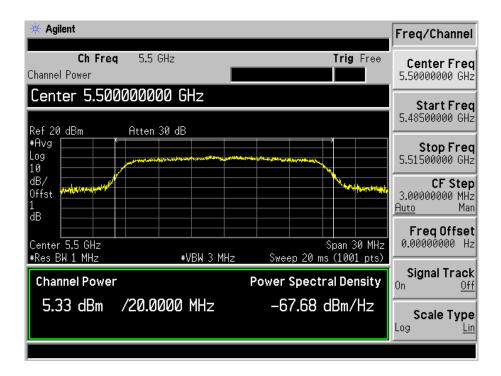


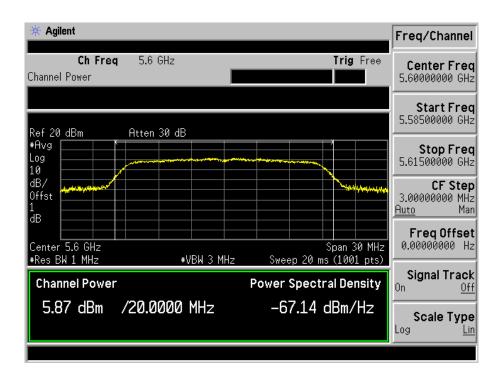


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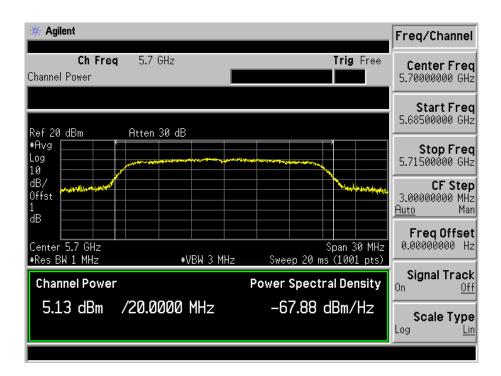


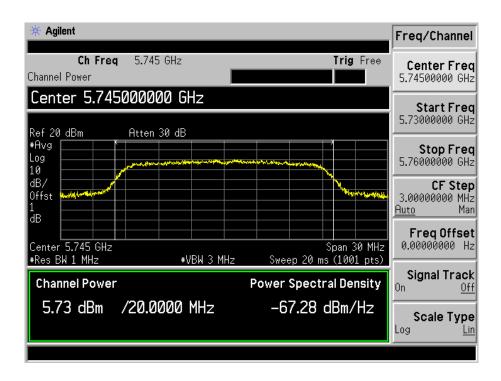
5500MHz



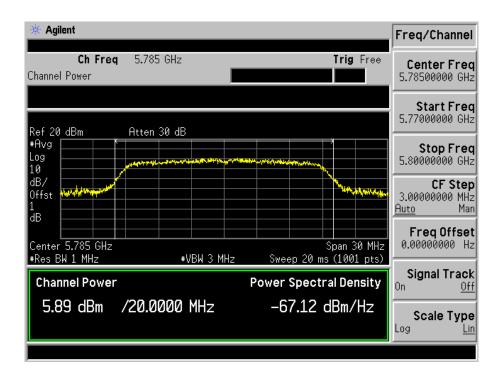


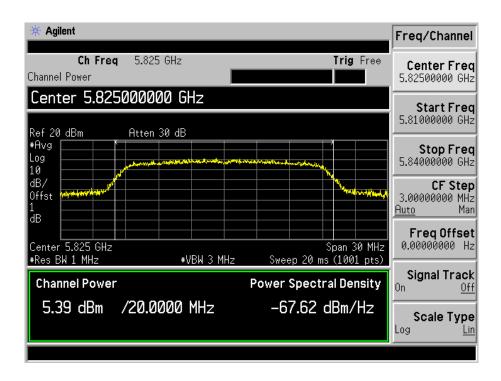








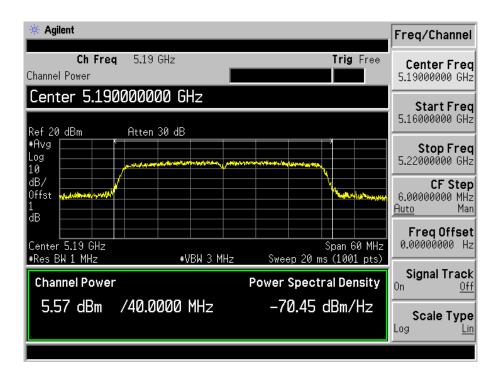


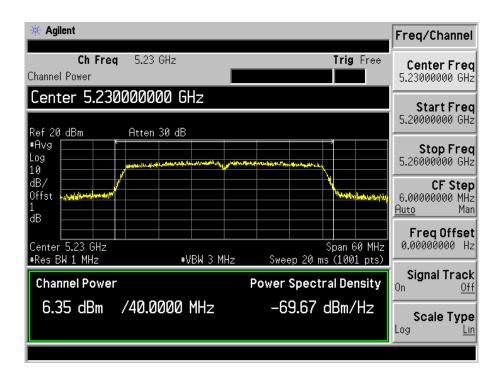




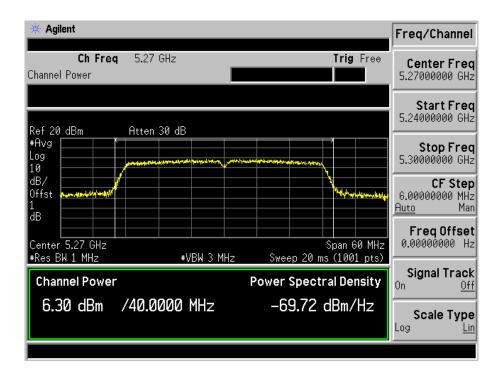
Test Mode: 802.11n-HT40

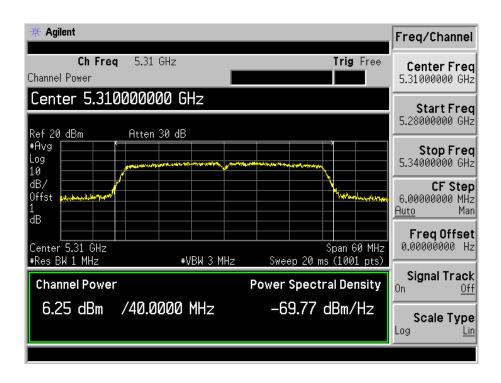
5190MHz





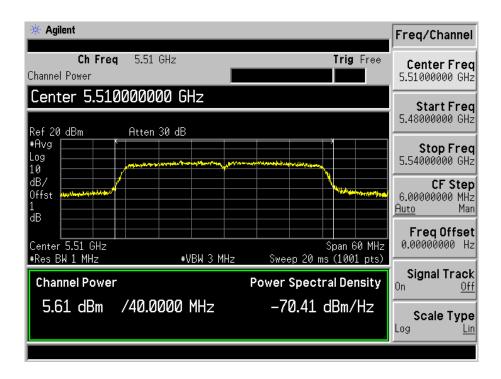




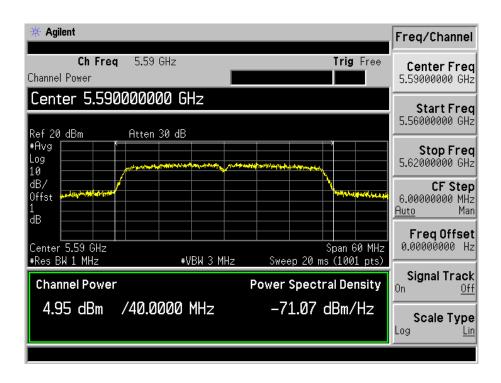




5510MHz

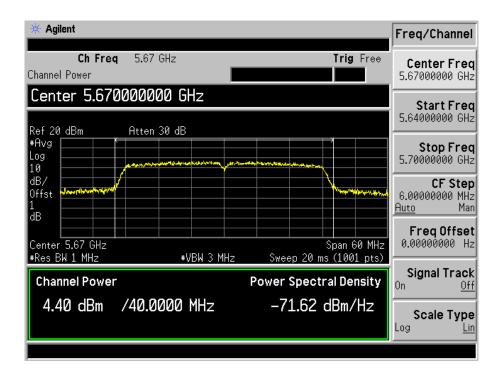


5590MHz

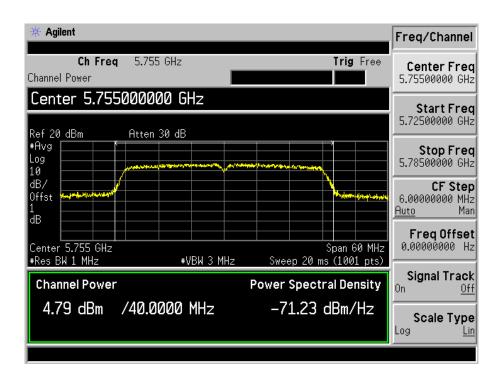




5670MHz

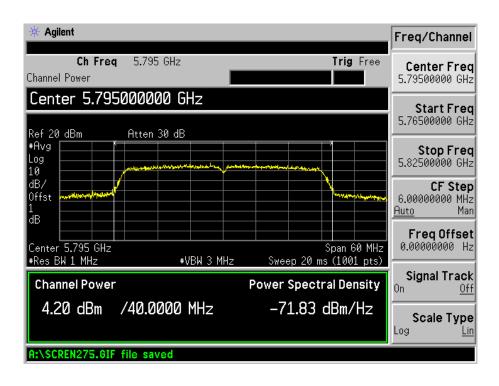


5755MHz





5795MHz





9. Radiated Spurious Emissions

9.1 Standard Applicable

According to §15.407(b)(6), Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.

According to §15.407(b)(7), The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.

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If radiated measurements are performed, field strength is then converted to EIRP as follows:

$$EIRP = ((E*d)^2) / 30$$

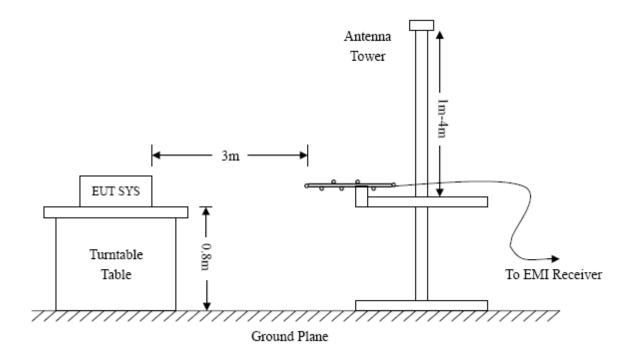
where:

- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

9.2 Test Procedure

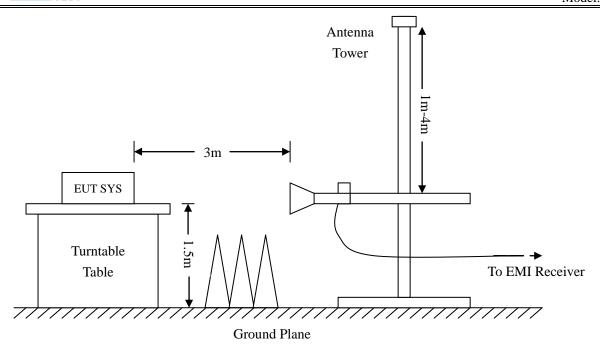
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.



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TEST Model: EZ-100



9.3 Test Receiver Setup

During the radiated emission test for above 1GHz, the test receiver was set with the following configurations:

For peak detector:

RBW = 1000kHz, VBW = 3000kHz, Sweep Time = Auto

For average detector:

RBW = 1000kHz, VBW = 10Hz, Sweep Time = Auto

9.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit for Class B. The equation for margin calculation is as follows:

9.5 Environmental Conditions

Temperature:	22° C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

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Model: EZ-100

9.6 Summary of Test Results/Plots

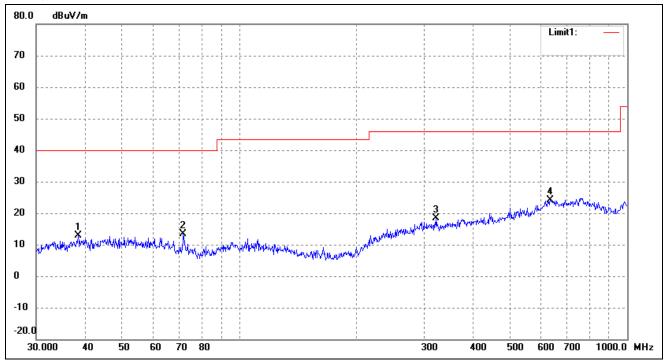
According to the data below, the FCC Part 15.205, 15.209 and 15.407(b)(6) standards, and had the worst margin of:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

For 802.11a

Spurious Emission From 30 MHz to 1 GHz Test mode: Transmitting Channel 5180MHz

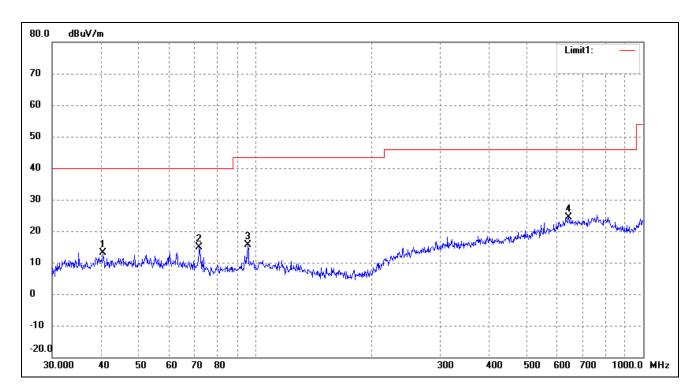
Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	38.4809	29.62	-16.78	12.84	40.00	-27.16	95	100	peak
2	71.8320	32.23	-18.94	13.29	40.00	-26.71	289	100	peak
3	322.1886	27.87	-9.38	18.49	46.00	-27.51	93	100	peak
4	633.9073	25.36	-1.21	24.15	46.00	-21.85	95	100	peak

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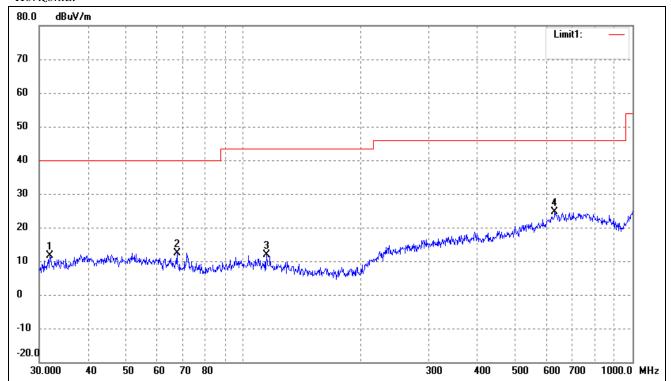




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	40.5591	29.78	-16.53	13.25	40.00	-26.75	200	100	peak
2	71.8320	33.84	-18.94	14.90	40.00	-25.10	129	100	peak
3	95.7622	32.82	-17.19	15.63	43.50	-27.87	127	100	peak
4	642.8613	25.53	-1.08	24.45	46.00	-21.55	90	100	peak

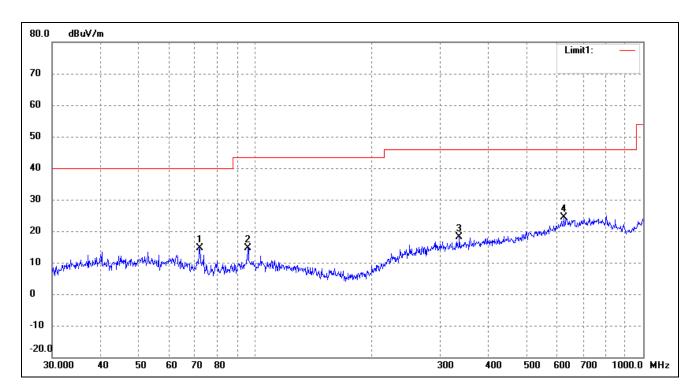


Test mode: Transmitting Channel 5200MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	31.9546	29.40	-17.85	11.55	40.00	-28.45	92	100	peak
2	67.6751	30.63	-18.21	12.42	40.00	-27.58	80	100	peak
3	114.9169	28.53	-16.64	11.89	43.50	-31.61	148	100	peak
4	631.6884	25.99	-1.29	24.70	46.00	-21.30	266	100	peak

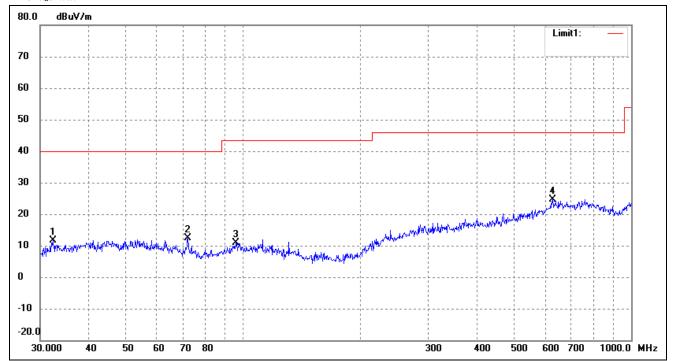




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	72.0843	33.48	-18.97	14.51	40.00	-25.49	52	100	peak
2	95.7622	31.74	-17.19	14.55	43.50	-28.95	173	100	peak
3	336.0352	27.73	-9.62	18.11	46.00	-27.89	65	100	peak
4	625.0780	25.96	-1.51	24.45	46.00	-21.55	102	100	peak

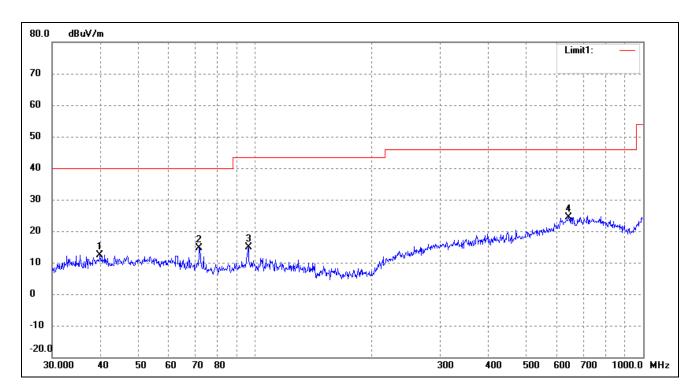


Test mode: Transmitting Channel 5240MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	32.4059	29.28	-17.77	11.51	40.00	-28.49	67	100	peak
2	72.0843	31.26	-18.97	12.29	40.00	-27.71	152	100	peak
3	95.7622	28.18	-17.19	10.99	43.50	-32.51	138	100	peak
4	627.2738	26.10	-1.45	24.65	46.00	-21.35	139	100	peak

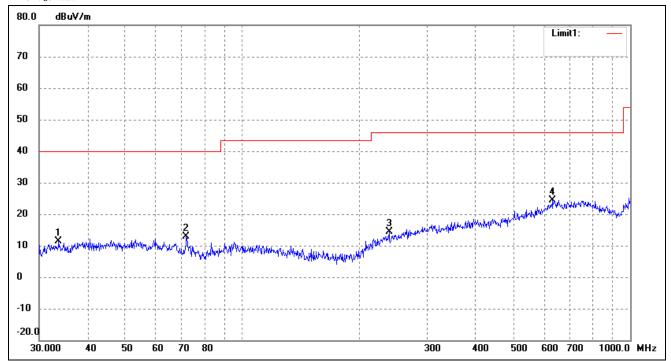




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.8542	29.02	-16.55	12.47	40.00	-27.53	94	100	peak
2	71.8320	33.68	-18.94	14.74	40.00	-25.26	165	100	peak
3	96.0986	32.03	-17.14	14.89	43.50	-28.61	138	100	peak
4	642.8613	25.56	-1.08	24.48	46.00	-21.52	109	100	peak

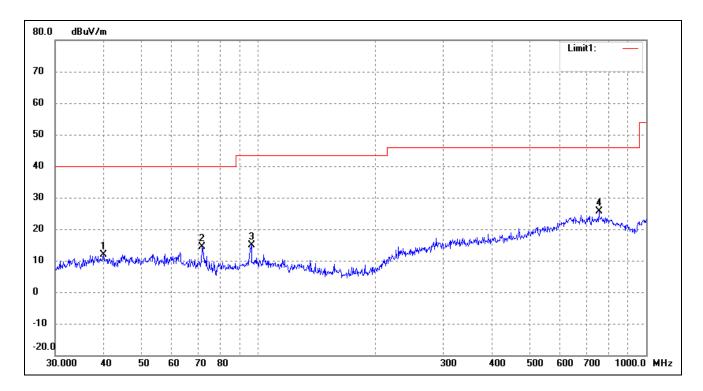


Test mode: Transmitting Channel 5260MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	33.6803	29.02	-17.54	11.48	40.00	-28.52	91	100	peak
2	71.8320	31.70	-18.94	12.76	40.00	-27.24	204	100	peak
3	239.1473	26.95	-12.60	14.35	46.00	-31.65	93	100	peak
4	631.6884	25.58	-1.29	24.29	46.00	-21.71	350	100	peak

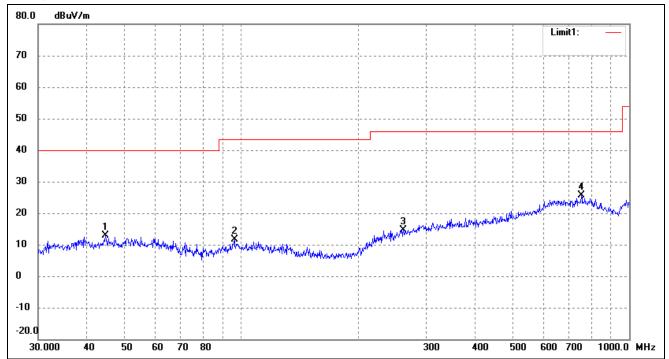




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.9942	28.40	-16.53	11.87	40.00	-28.13	286	100	peak
2	71.8320	33.20	-18.94	14.26	40.00	-25.74	92	100	peak
3	96.0986	32.06	-17.14	14.92	43.50	-28.58	351	100	peak
4	755.3873	26.01	-0.43	25.58	46.00	-20.42	101	100	peak

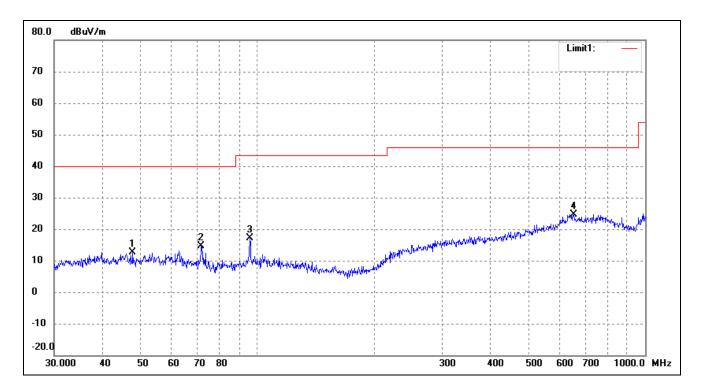


Test mode: Transmitting Channel 5280MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	44.7434	29.29	-16.48	12.81	40.00	-27.19	80	100	peak
2	96.0986	28.66	-17.14	11.52	43.50	-31.98	102	100	peak
3	261.9753	26.22	-11.64	14.58	46.00	-31.42	58	100	peak
4	752.7432	26.07	-0.33	25.74	46.00	-20.26	288	100	peak

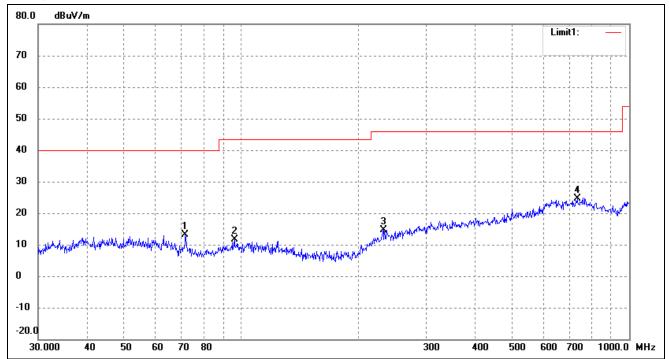




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	47.8260	29.22	-16.53	12.69	40.00	-27.31	152	100	peak
2	71.8320	33.58	-18.94	14.64	40.00	-25.36	126	100	peak
3	95.7622	34.42	-17.19	17.23	43.50	-26.27	125	100	peak
4	654.2318	26.00	-1.38	24.62	46.00	-21.38	358	100	peak

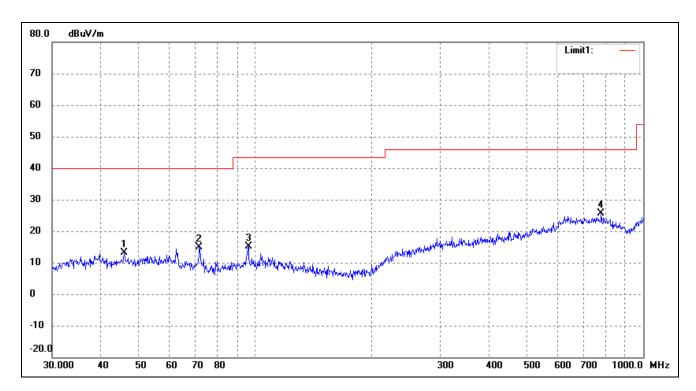


Test mode: Transmitting Channel 5320MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	71.8320	32.08	-18.94	13.14	40.00	-26.86	57	100	peak
2	96.0986	28.85	-17.14	11.71	43.50	-31.79	90	100	peak
3	232.5318	27.65	-13.03	14.62	46.00	-31.38	50	100	peak
4	734.4913	24.85	-0.18	24.67	46.00	-21.33	126	100	peak

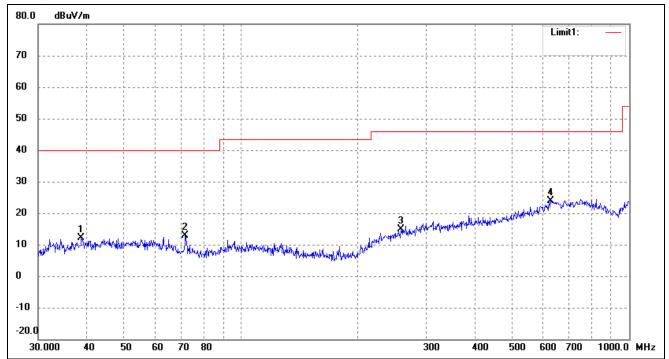




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	46.0164	29.72	-16.49	13.23	40.00	-26.77	107	100	peak
2	71.8320	33.90	-18.94	14.96	40.00	-25.04	190	100	peak
3	96.0986	32.31	-17.14	15.17	43.50	-28.33	67	100	peak
4	779.6068	27.38	-1.84	25.54	46.00	-20.46	96	100	peak

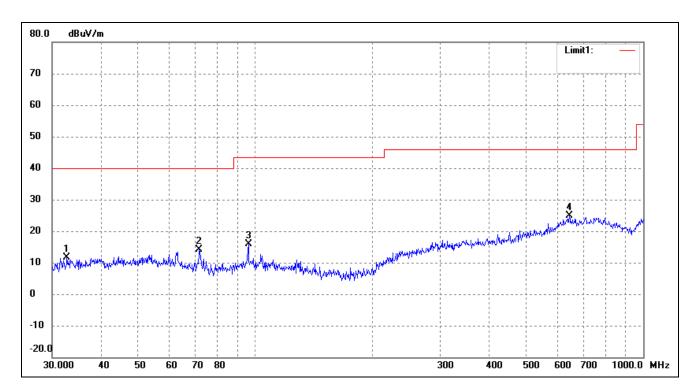


Test mode: Transmitting Channel 5500MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	38.7518	28.83	-16.73	12.10	40.00	-27.90	82	100	peak
2	71.8320	31.87	-18.94	12.93	40.00	-27.07	196	100	peak
3	258.3264	26.62	-11.85	14.77	46.00	-31.23	131	100	peak
4	627.2738	25.38	-1.45	23.93	46.00	-22.07	113	100	peak

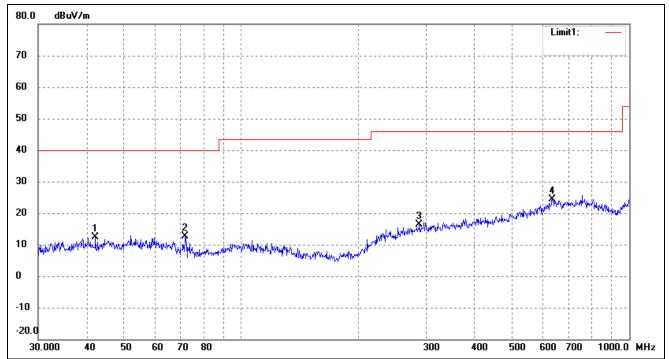




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	32.7486	29.41	-17.70	11.71	40.00	-28.29	210	100	peak
2	71.8320	33.18	-18.94	14.24	40.00	-25.76	212	100	peak
3	96.0986	32.92	-17.14	15.78	43.50	-27.72	53	100	peak
4	645.1195	26.06	-1.15	24.91	46.00	-21.09	92	100	peak

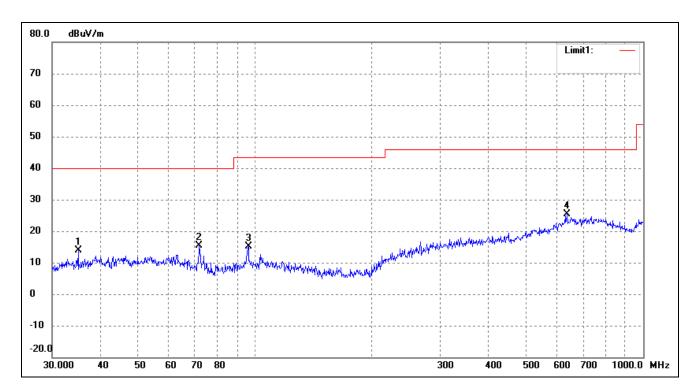


Test mode: Transmitting Channel 5600MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	42.1542	28.87	-16.50	12.37	40.00	-27.63	107	100	peak
2	71.8320	31.53	-18.94	12.59	40.00	-27.41	190	100	peak
3	287.9904	26.40	-10.05	16.35	46.00	-29.65	67	100	peak
4	633.9073	25.57	-1.21	24.36	46.00	-21.64	96	100	peak

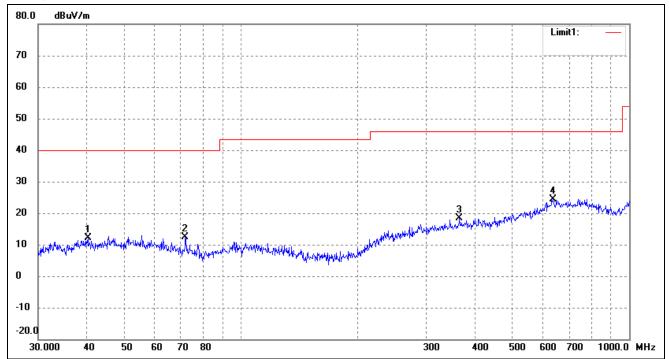




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	35.0048	31.16	-17.32	13.84	40.00	-26.16	94	100	peak
2	71.8320	34.32	-18.94	15.38	40.00	-24.62	226	100	peak
3	96.0986	32.27	-17.14	15.13	43.50	-28.37	99	100	peak
4	636.1340	26.53	-1.15	25.38	46.00	-20.62	65	100	peak

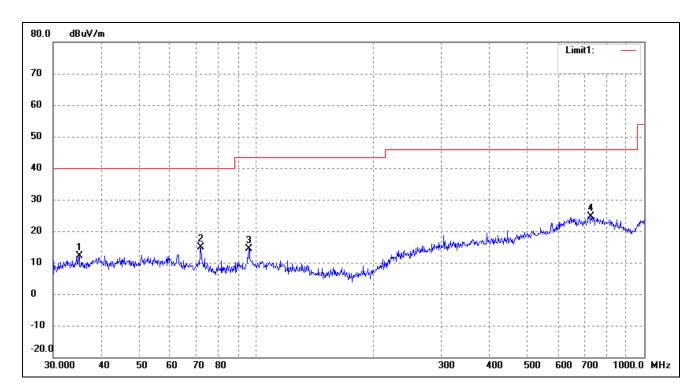


Test mode: Transmitting Channel 5700MHz



N	lo.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
		(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
	1	40.2757	28.67	-16.53	12.14	40.00	-27.86	252	100	peak
	2	71.8320	31.32	-18.94	12.38	40.00	-27.62	92	100	peak
	3	365.5391	27.37	-8.91	18.46	46.00	-27.54	187	100	peak
	4	636.1340	25.60	-1.15	24.45	46.00	-21.55	98	100	peak

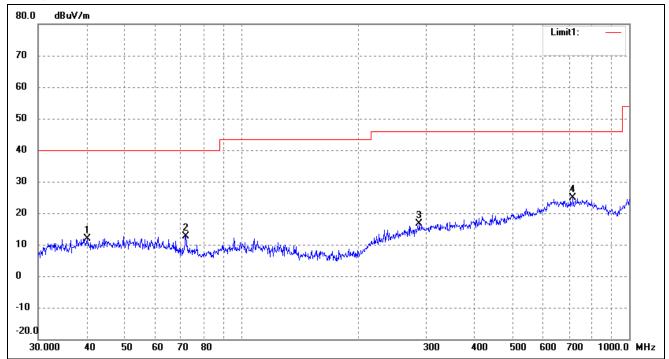




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	35.0048	29.56	-17.32	12.24	40.00	-27.76	210	100	peak
2	72.0843	33.80	-18.97	14.83	40.00	-25.17	212	100	peak
3	95.7622	31.59	-17.19	14.40	43.50	-29.10	53	100	peak
4	729.3583	25.17	-0.52	24.65	46.00	-21.35	92	100	peak

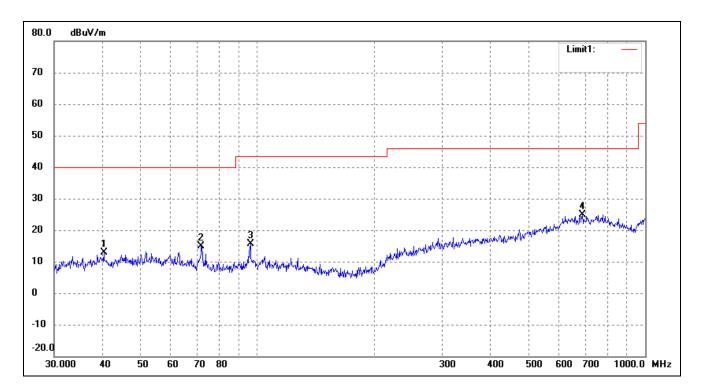


Test mode: Transmitting Channel 5745MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	40.1347	28.47	-16.53	11.94	40.00	-28.06	65	100	peak
2	72.0843	31.62	-18.97	12.65	40.00	-27.35	192	100	peak
3	287.9904	26.56	-10.05	16.51	46.00	-29.49	118	100	peak
4	716.6820	26.10	-1.25	24.85	46.00	-21.15	110	100	peak

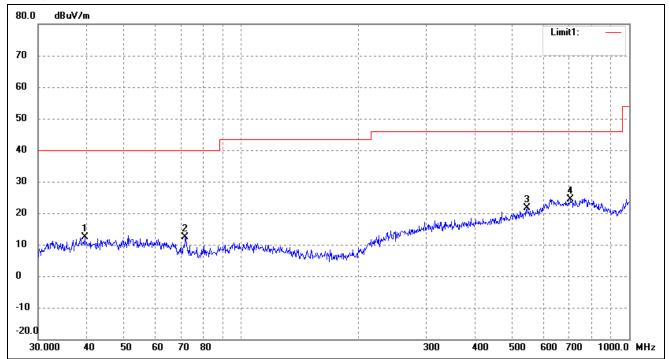




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	40.2757	29.47	-16.53	12.94	40.00	-27.06	51	100	peak
2	71.8320	33.89	-18.94	14.95	40.00	-25.05	114	100	peak
3	96.0986	32.67	-17.14	15.53	43.50	-27.97	101	100	peak
4	689.5644	25.89	-1.07	24.82	46.00	-21.18	90	100	peak

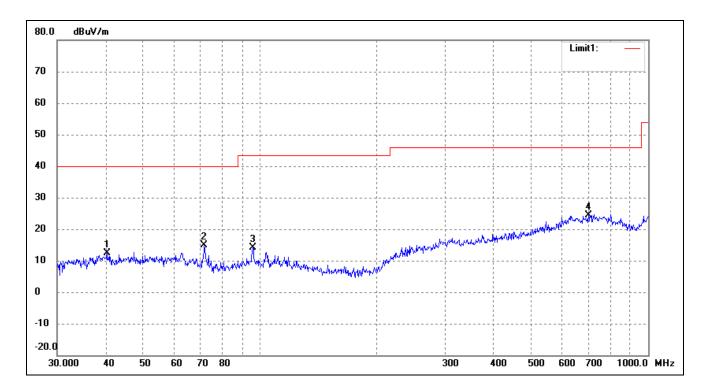


Test mode: Transmitting Channel 5785MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.5757	28.91	-16.59	12.32	40.00	-27.68	151	100	peak
2	71.8320	31.40	-18.94	12.46	40.00	-27.54	181	100	peak
3	545.1826	26.74	-5.14	21.60	46.00	-24.40	139	100	peak
4	706.6999	26.03	-1.59	24.44	46.00	-21.56	133	100	peak

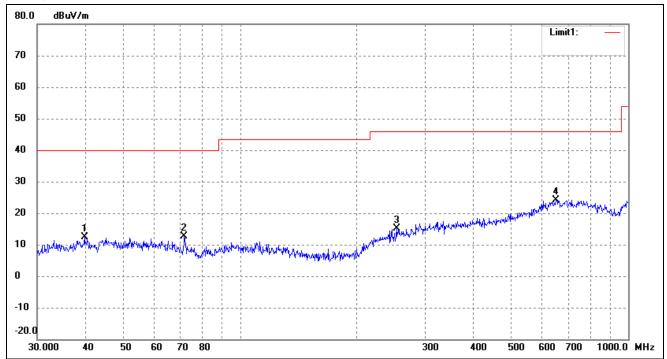




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	40.2757	28.85	-16.53	12.32	40.00	-27.68	97	100	peak
2	71.8320	33.90	-18.94	14.96	40.00	-25.04	137	100	peak
3	95.7622	31.42	-17.19	14.23	43.50	-29.27	111	100	peak
4	701.7610	26.05	-1.76	24.29	46.00	-21.71	346	100	peak

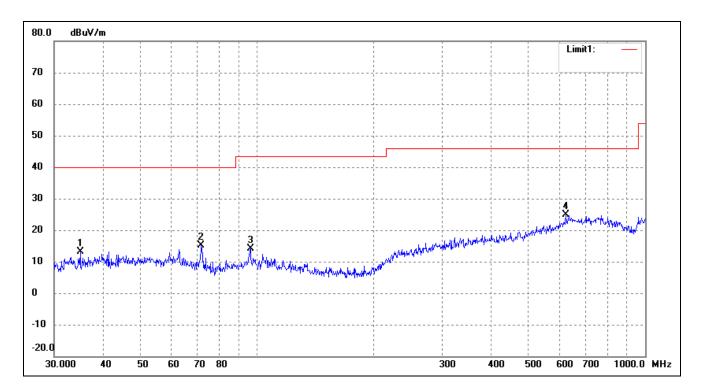


Test mode: Transmitting Channel 5825MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.7147	28.97	-16.57	12.40	40.00	-27.60	265	100	peak
2	71.8320	31.61	-18.94	12.67	40.00	-27.33	97	100	peak
3	252.9482	27.27	-12.03	15.24	46.00	-30.76	137	100	peak
4	651.9417	25.46	-1.32	24.14	46.00	-21.86	111	100	peak



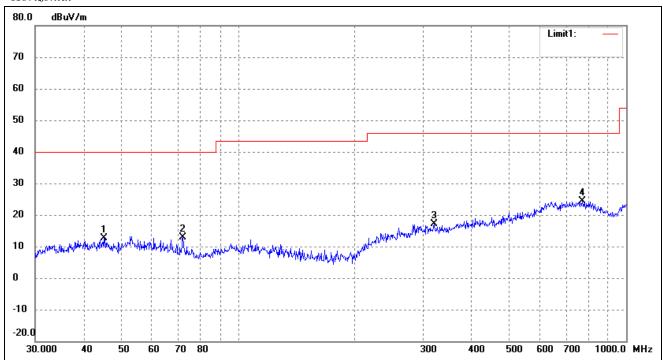


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	35.0048	30.41	-17.32	13.09	40.00	-26.91	215	100	peak
2	71.8320	34.16	-18.94	15.22	40.00	-24.78	292	100	peak
3	96.0986	31.32	-17.14	14.18	43.50	-29.32	56	100	peak
4	625.0780	26.38	-1.51	24.87	46.00	-21.13	311	100	peak



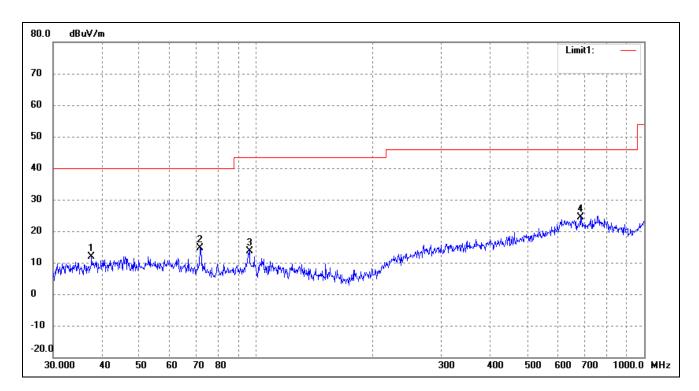
For 802.11n-HT20

Test mode: Transmitting Channel 5180MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.0583	29.01	-16.48	12.53	40.00	-27.47	215	100	peak
2	72.0843	31.88	-18.97	12.91	40.00	-27.09	292	100	peak
3	319.9370	26.45	-9.34	17.11	46.00	-28.89	56	100	peak
4	771.4486	25.65	-1.29	24.36	46.00	-21.64	311	100	peak

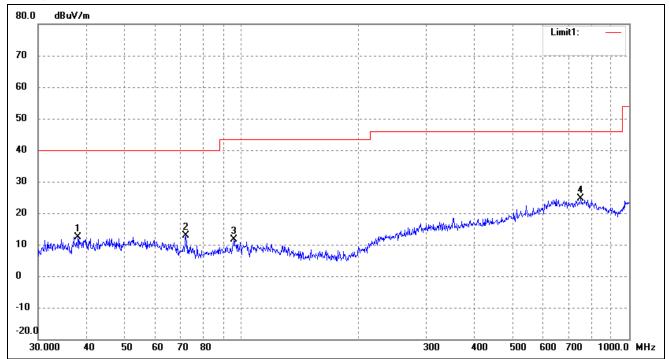




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	37.6798	28.74	-16.89	11.85	40.00	-28.15	151	100	peak
2	71.8320	33.56	-18.94	14.62	40.00	-25.38	181	100	peak
3	96.0986	30.77	-17.14	13.63	43.50	-29.87	139	100	peak
4	684.7454	25.10	-0.71	24.39	46.00	-21.61	133	100	peak

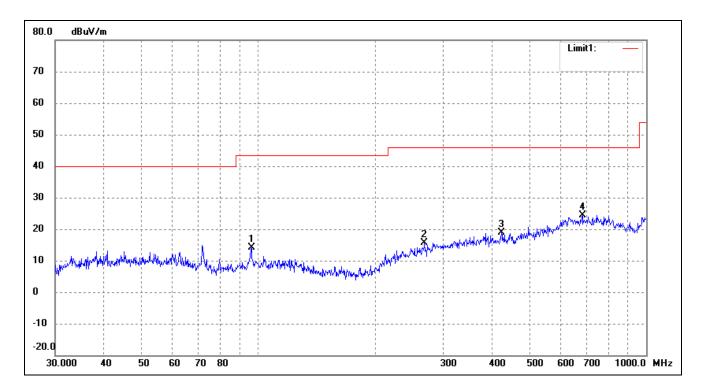


Test mode: Transmitting Channel 5200MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	37.9450	29.20	-16.85	12.35	40.00	-27.65	327	100	peak
2	72.0843	31.85	-18.97	12.88	40.00	-27.12	99	100	peak
3	95.7622	28.74	-17.19	11.55	43.50	-31.95	78	100	peak
4	750.1083	24.94	-0.23	24.71	46.00	-21.29	109	100	peak

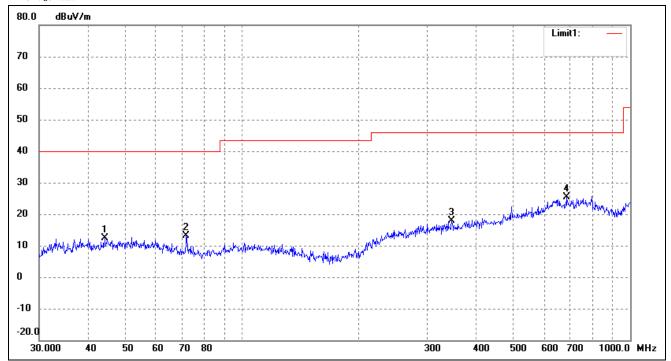




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	96.0986	31.24	-17.14	14.10	43.50	-29.40	265	100	peak
2	268.4853	26.89	-11.18	15.71	46.00	-30.29	97	100	peak
3	423.5403	27.04	-8.19	18.85	46.00	-27.15	137	100	peak
4	684.7454	24.99	-0.71	24.28	46.00	-21.72	111	100	peak

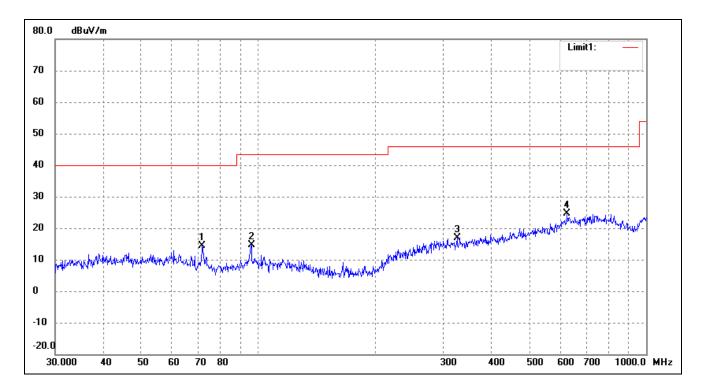


Test mode: Transmitting Channel 5240MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	44.2752	28.86	-16.49	12.37	40.00	-27.63	98	100	peak
2	71.8320	31.97	-18.94	13.03	40.00	-26.97	181	100	peak
3	346.8092	27.38	-9.40	17.98	46.00	-28.02	106	100	peak
4	684.7454	26.03	-0.71	25.32	46.00	-20.68	135	100	peak

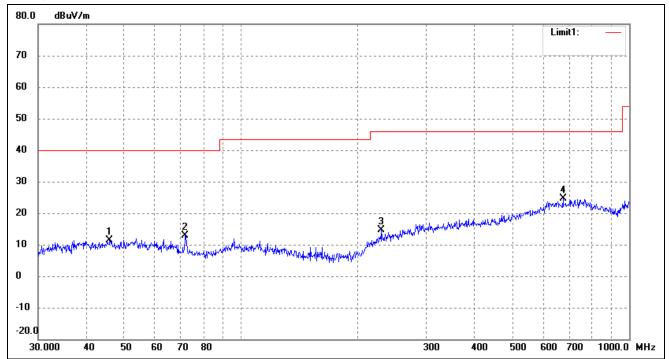




]	No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
		(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
	1	71.8320	33.33	-18.94	14.39	40.00	-25.61	101	100	peak
	2	96.0986	31.67	-17.14	14.53	43.50	-28.97	103	100	peak
	3	325.5958	26.28	-9.45	16.83	46.00	-29.17	134	100	peak
	4	625.0780	26.25	-1.51	24.74	46.00	-21.26	64	100	peak

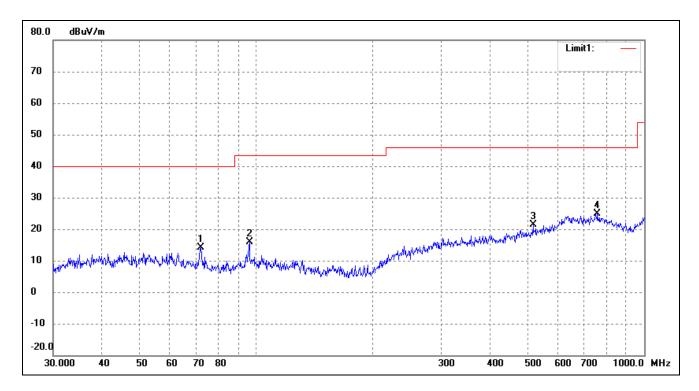


Test mode: Transmitting Channel 5260MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.8553	27.99	-16.50	11.49	40.00	-28.51	199	100	peak
2	71.8320	31.72	-18.94	12.78	40.00	-27.22	182	100	peak
3	230.0985	27.94	-13.19	14.75	46.00	-31.25	67	100	peak
4	675.2080	25.34	-0.63	24.71	46.00	-21.29	120	100	peak

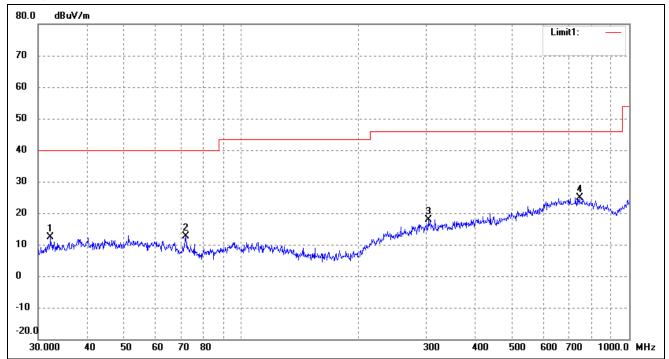




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	72.0843	33.03	-18.97	14.06	40.00	-25.94	94	100	peak
2	96.0986	32.96	-17.14	15.82	43.50	-27.68	160	100	peak
3	517.2480	26.77	-5.29	21.48	46.00	-24.52	110	100	peak
4	758.0408	25.38	-0.53	24.85	46.00	-21.15	221	100	peak

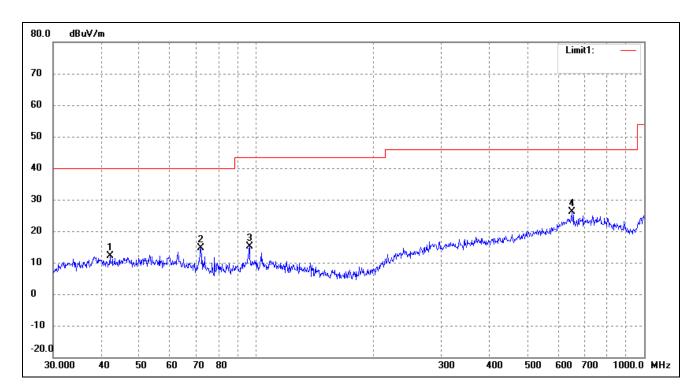


Test mode: Transmitting Channel 5280MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	32.2925	30.13	-17.79	12.34	40.00	-27.66	348	100	peak
2	72.0843	31.64	-18.97	12.67	40.00	-27.33	94	100	peak
3	303.5437	27.39	-9.56	17.83	46.00	-28.17	98	100	peak
4	744.8661	24.89	-0.03	24.86	46.00	-21.14	103	100	peak

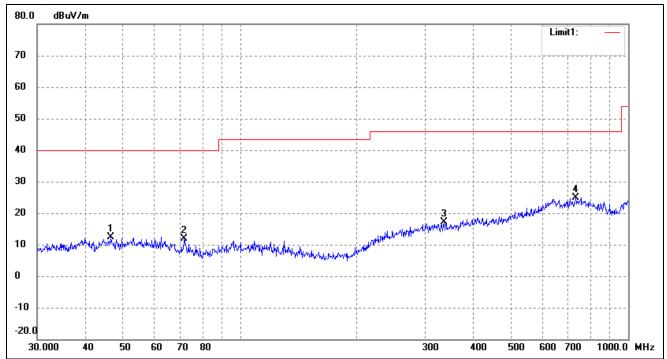




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	42.0066	28.56	-16.50	12.06	40.00	-27.94	86	100	peak
2	72.0843	33.64	-18.97	14.67	40.00	-25.33	178	100	peak
3	96.0986	32.33	-17.14	15.19	43.50	-28.31	90	100	peak
4	651.9417	27.34	-1.32	26.02	46.00	-19.98	116	100	peak

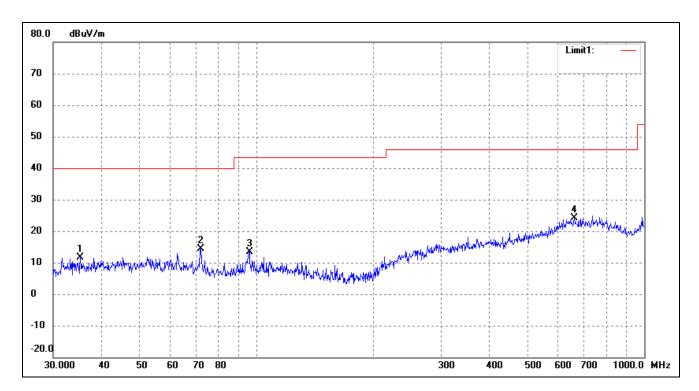


Test mode: Transmitting Channel 5320MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	46.5030	28.87	-16.50	12.37	40.00	-27.63	173	100	peak
2	71.8320	30.82	-18.94	11.88	40.00	-28.12	134	100	peak
3	336.0352	26.71	-9.62	17.09	46.00	-28.91	56	100	peak
4	731.9203	25.16	-0.35	24.81	46.00	-21.19	127	100	peak

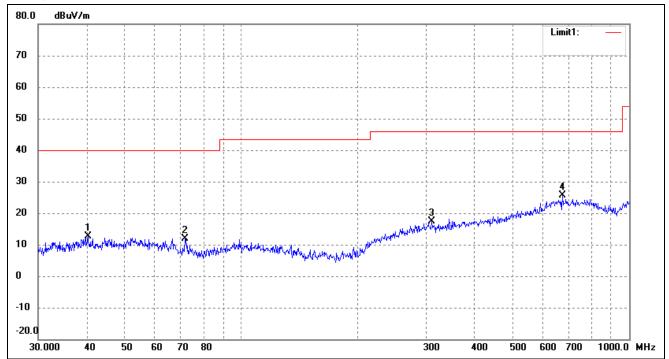




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	35.2512	28.95	-17.28	11.67	40.00	-28.33	84	100	peak
2	72.0843	33.31	-18.97	14.34	40.00	-25.66	145	100	peak
3	96.0986	30.62	-17.14	13.48	43.50	-30.02	68	100	peak
4	661.1505	25.49	-1.44	24.05	46.00	-21.95	95	100	peak

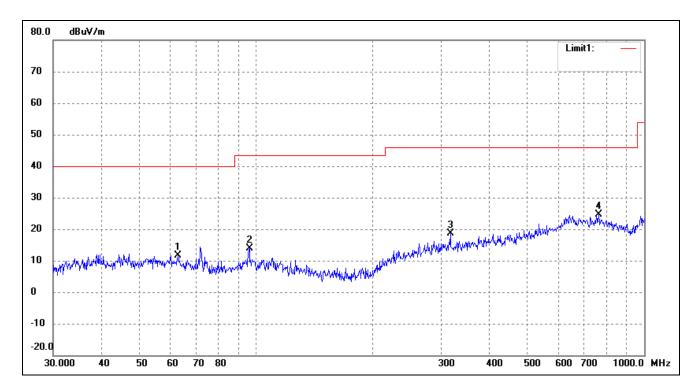


Test mode: Transmitting Channel 5500MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	40.2757	29.09	-16.53	12.56	40.00	-27.44	322	100	peak
2	71.8320	30.94	-18.94	12.00	40.00	-28.00	186	100	peak
3	309.9977	26.93	-9.46	17.47	46.00	-28.53	94	100	peak
4	672.8445	26.30	-0.77	25.53	46.00	-20.47	183	100	peak

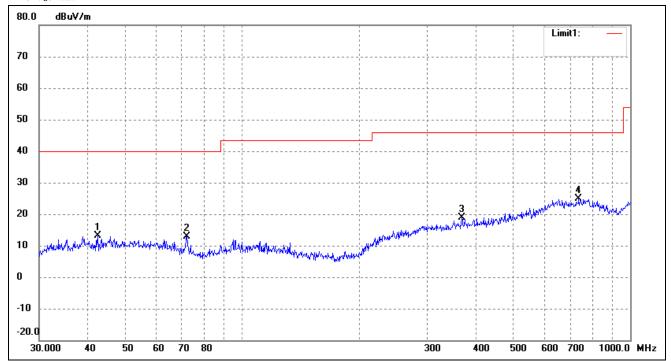




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	62.8708	28.87	-17.12	11.75	40.00	-28.25	69	100	peak
2	96.0986	30.92	-17.14	13.78	43.50	-29.72	189	100	peak
3	316.5890	27.99	-9.38	18.61	46.00	-27.39	89	100	peak
4	763.3757	25.46	-0.78	24.68	46.00	-21.32	149	100	peak

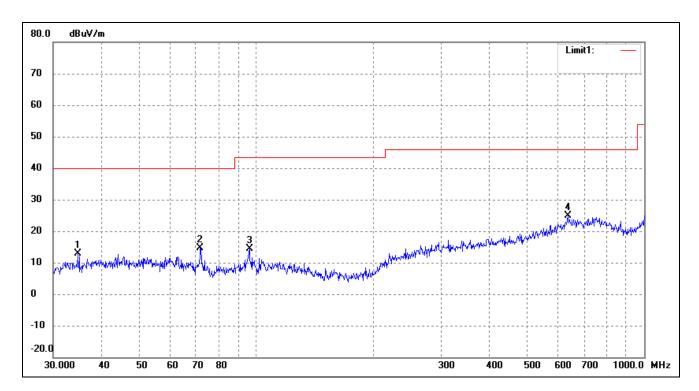


Test mode: Transmitting Channel 5600MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	42.4508	29.51	-16.50	13.01	40.00	-26.99	302	100	peak
2	72.0843	31.94	-18.97	12.97	40.00	-27.03	98	100	peak
3	368.1116	27.80	-8.90	18.90	46.00	-27.10	287	100	peak
4	737.0714	24.89	-0.02	24.87	46.00	-21.13	116	100	peak

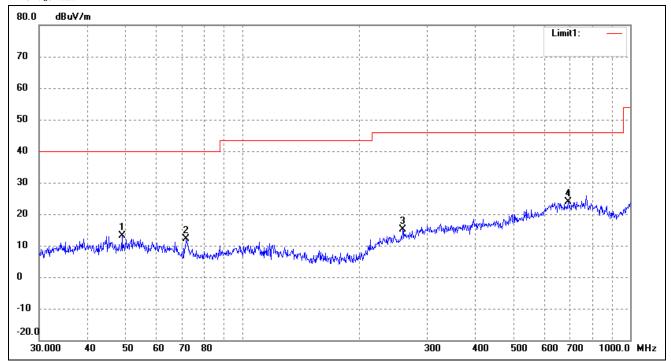




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	34.7602	30.18	-17.36	12.82	40.00	-27.18	217	100	peak
2	71.8320	33.52	-18.94	14.58	40.00	-25.42	99	100	peak
3	96.0986	31.54	-17.14	14.40	43.50	-29.10	328	100	peak
4	636.1340	25.95	-1.15	24.80	46.00	-21.20	91	100	peak

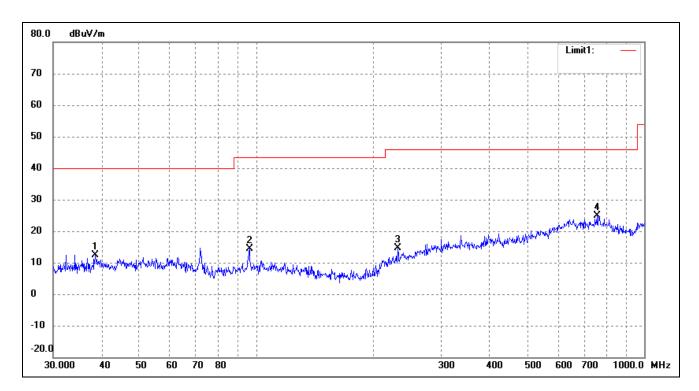


Test mode: Transmitting Channel 5700MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	49.0145	29.63	-16.54	13.09	40.00	-26.91	106	100	peak
2	71.8320	31.12	-18.94	12.18	40.00	-27.82	182	100	peak
3	259.2338	27.02	-11.80	15.22	46.00	-30.78	73	100	peak
4	691.9867	25.16	-1.25	23.91	46.00	-22.09	119	100	peak

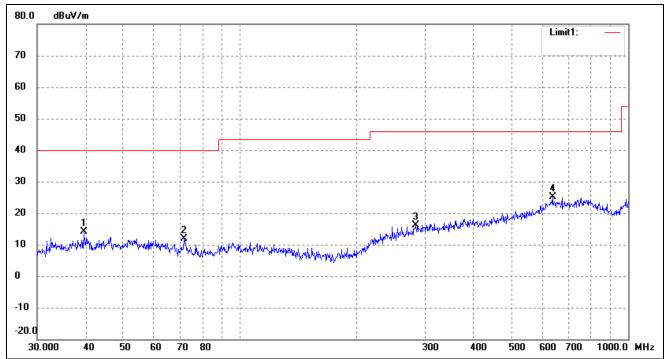




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	38.4809	29.18	-16.78	12.40	40.00	-27.60	83	100	peak
2	96.0986	31.44	-17.14	14.30	43.50	-29.20	136	100	peak
3	231.7179	27.80	-13.09	14.71	46.00	-31.29	85	100	peak
4	755.3873	25.40	-0.43	24.97	46.00	-21.03	109	100	peak

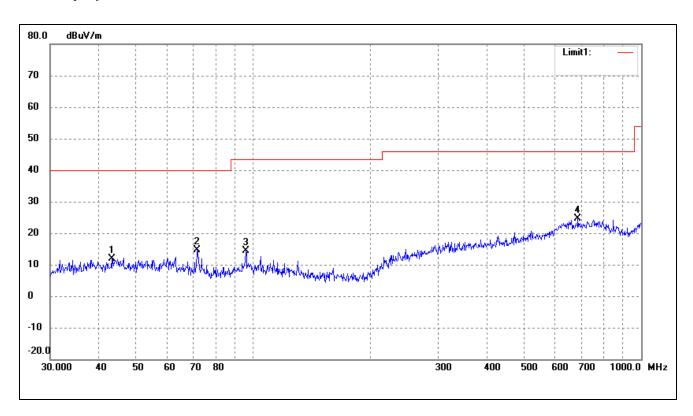


Test mode: Transmitting Channel 5745MHz



N	lo.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
		(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
	1	39.5757	30.75	-16.59	14.16	40.00	-25.84	350	100	peak
	2	71.5806	30.79	-18.92	11.87	40.00	-28.13	136	100	peak
	3	283.9792	26.43	-10.21	16.22	46.00	-29.78	93	100	peak
	4	638.3686	26.22	-1.06	25.16	46.00	-20.84	279	100	peak

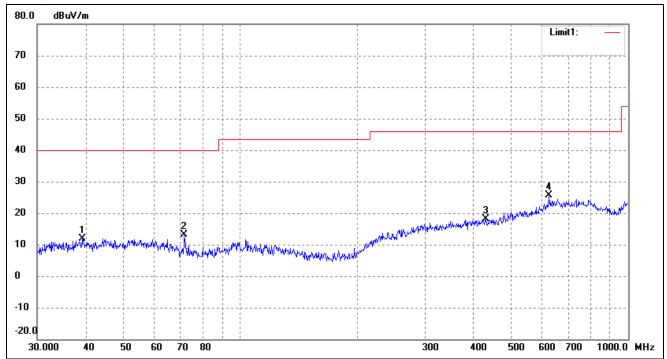




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	43.2017	28.42	-16.49	11.93	40.00	-28.07	80	100	peak
2	71.8320	33.49	-18.94	14.55	40.00	-25.45	167	100	peak
3	95.7622	31.56	-17.19	14.37	43.50	-29.13	77	100	peak
4	687.1507	25.54	-0.89	24.65	46.00	-21.35	112	100	peak

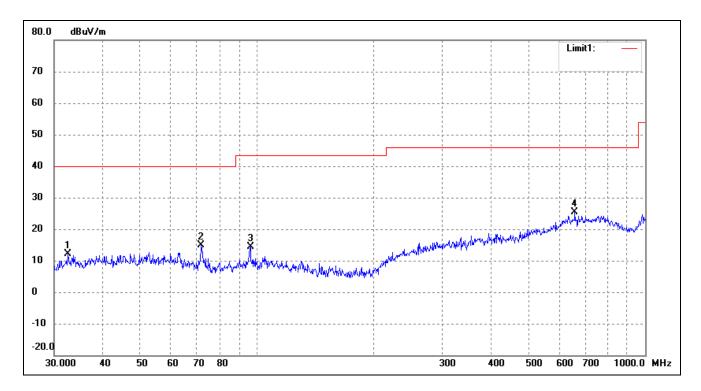


Test mode: Transmitting Channel 5785MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.1616	28.62	-16.67	11.95	40.00	-28.05	359	100	peak
2	71.8320	32.13	-18.94	13.19	40.00	-26.81	93	100	peak
3	429.5228	26.06	-7.93	18.13	46.00	-27.87	122	100	peak
4	625.0780	27.21	-1.51	25.70	46.00	-20.30	109	100	peak

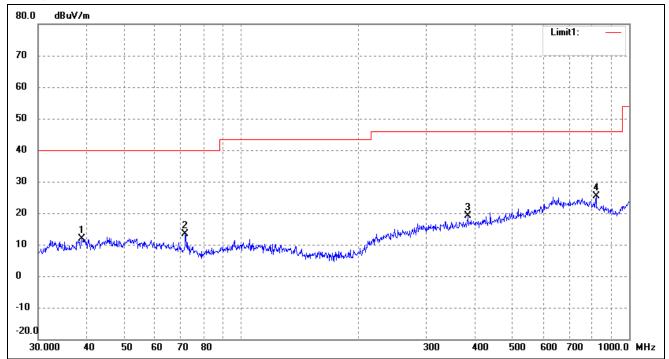




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	32.5198	29.91	-17.73	12.18	40.00	-27.82	329	100	peak
2	71.8320	33.76	-18.94	14.82	40.00	-25.18	99	100	peak
3	96.0986	31.48	-17.14	14.34	43.50	-29.16	169	100	peak
4	658.8362	26.88	-1.47	25.41	46.00	-20.59	113	100	peak

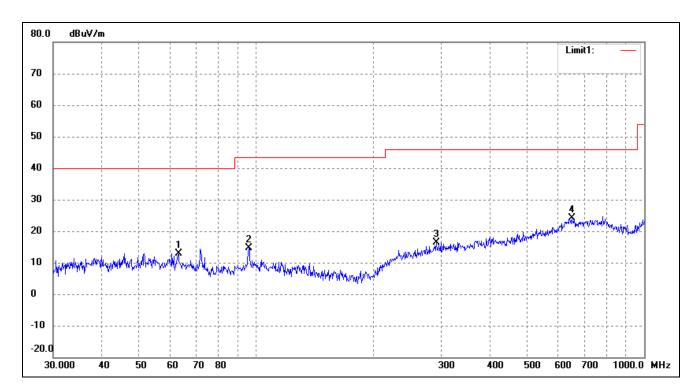


Test mode: Transmitting Channel 5825MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	38.8879	28.49	-16.71	11.78	40.00	-28.22	51	100	peak
2	71.8320	32.35	-18.94	13.41	40.00	-26.59	182	100	peak
3	383.9318	27.79	-8.64	19.15	46.00	-26.85	59	100	peak
4	821.7104	28.25	-2.78	25.47	46.00	-20.53	124	100	peak



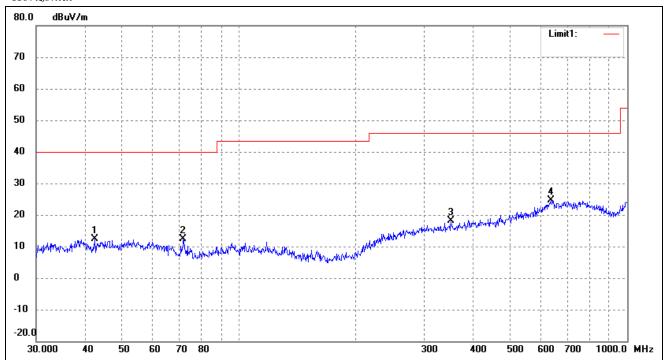


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	63.0916	30.05	-17.16	12.89	40.00	-27.11	117	100	peak
2	95.7622	31.91	-17.19	14.72	43.50	-28.78	109	100	peak
3	291.0360	26.25	-9.92	16.33	46.00	-29.67	92	100	peak
4	651.9417	25.56	-1.32	24.24	46.00	-21.76	180	100	peak



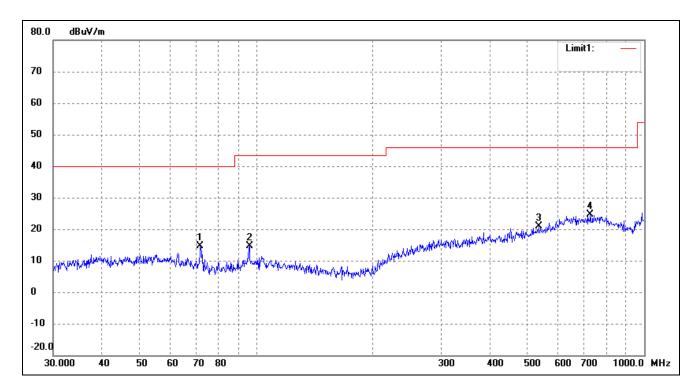
For 802.11n-HT40

Test mode: Transmitting Channel 5190MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	42.4508	28.92	-16.50	12.42	40.00	-27.58	241	100	peak
2	71.8320	31.31	-18.94	12.37	40.00	-27.63	251	100	peak
3	351.7079	27.31	-9.21	18.10	46.00	-27.90	100	100	peak
4	636.1340	25.70	-1.15	24.55	46.00	-21.45	286	100	peak

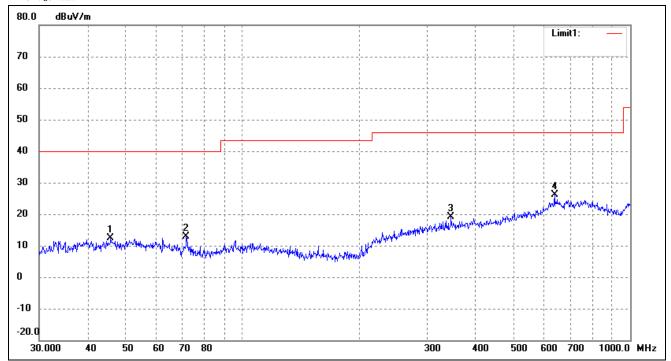




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	71.8320	33.54	-18.94	14.60	40.00	-25.40	51	100	peak
2	96.0986	31.74	-17.14	14.60	43.50	-28.90	154	100	peak
3	535.7073	26.17	-5.21	20.96	46.00	-25.04	133	100	peak
4	726.8052	25.31	-0.68	24.63	46.00	-21.37	101	100	peak

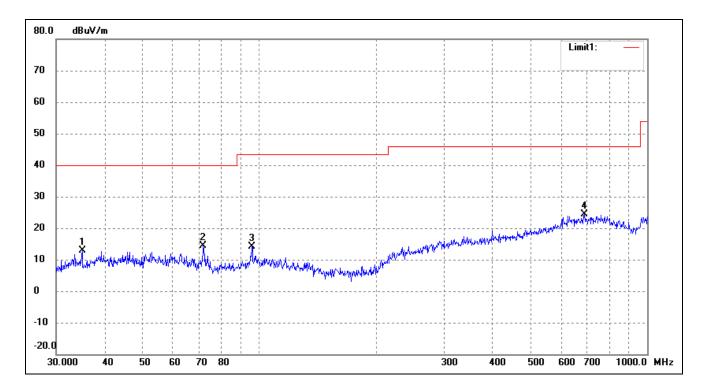


Test mode: Transmitting Channel 5230MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.8553	28.88	-16.50	12.38	40.00	-27.62	114	100	peak
2	71.8320	31.75	-18.94	12.81	40.00	-27.19	103	100	peak
3	345.5952	28.54	-9.45	19.09	46.00	-26.91	52	100	peak
4	638.3686	27.27	-1.06	26.21	46.00	-19.79	92	100	peak

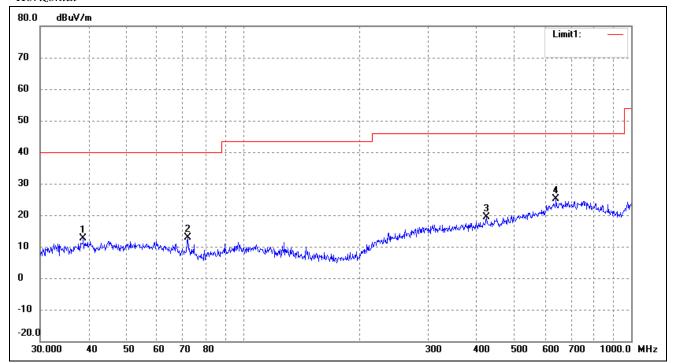




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	35.0048	30.11	-17.32	12.79	40.00	-27.21	62	100	peak
2	71.8320	33.40	-18.94	14.46	40.00	-25.54	97	100	peak
3	95.7622	31.20	-17.19	14.01	43.50	-29.49	136	100	peak
4	689.5644	25.33	-1.07	24.26	46.00	-21.74	115	100	peak

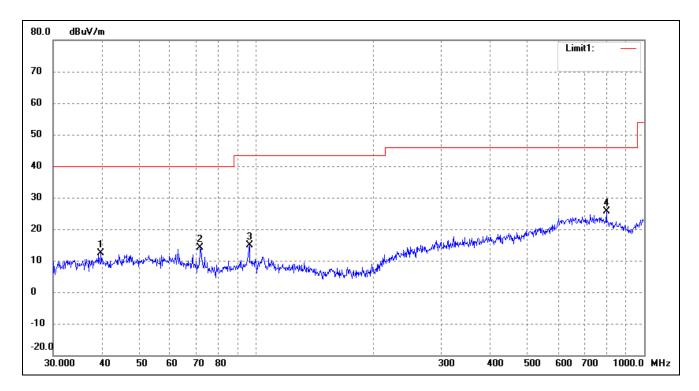


Test mode: Transmitting Channel 5270MHz



1	No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
		(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
	1	38.7518	29.39	-16.73	12.66	40.00	-27.34	228	100	peak
	2	72.0843	31.92	-18.97	12.95	40.00	-27.05	87	100	peak
	3	423.5403	27.61	-8.19	19.42	46.00	-26.58	203	100	peak
	4	640.6110	26.14	-1.03	25.11	46.00	-20.89	242	100	peak

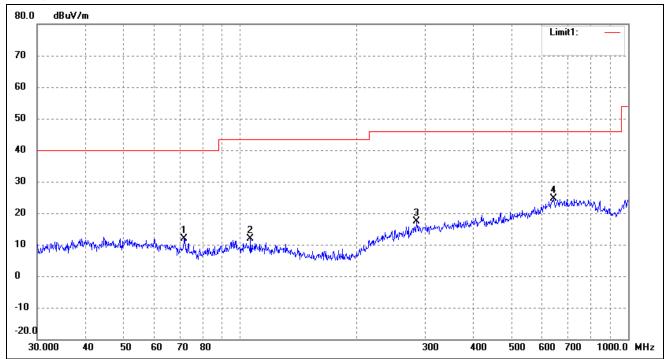




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.8542	28.90	-16.55	12.35	40.00	-27.65	94	100	peak
2	71.8320	33.19	-18.94	14.25	40.00	-25.75	61	100	peak
3	96.0986	31.97	-17.14	14.83	43.50	-28.67	108	100	peak
4	798.9797	27.92	-2.18	25.74	46.00	-20.26	258	100	peak

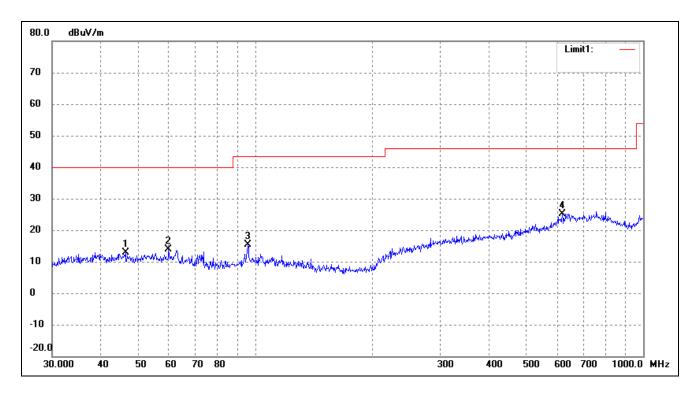


Test mode: Transmitting Channel 5310MHz



No	. Frequ	ency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MI	Hz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	71.8	320	30.82	-18.94	11.88	40.00	-28.12	223	100	peak
2	106.3	8850	28.41	-16.60	11.81	43.50	-31.69	96	100	peak
3	284.9	767	27.43	-10.17	17.26	46.00	-28.74	74	100	peak
4	642.8	8613	25.77	-1.08	24.69	46.00	-21.31	100	100	peak

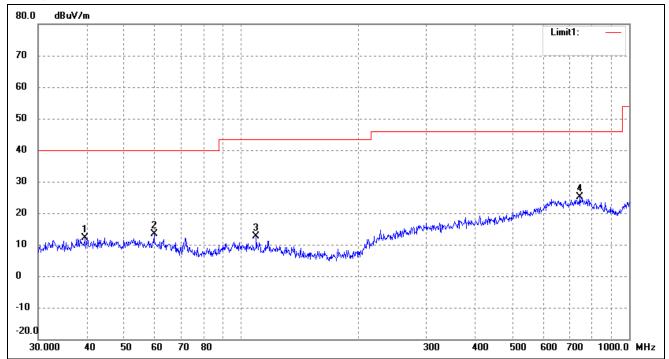




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	46.3402	29.40	-16.50	12.90	40.00	-27.10	97	100	peak
2	59.8588	30.35	-16.51	13.84	40.00	-26.16	131	100	peak
3	95.7622	32.45	-17.19	15.26	43.50	-28.24	99	100	peak
4	618.5369	26.69	-1.58	25.11	46.00	-20.89	268	100	peak

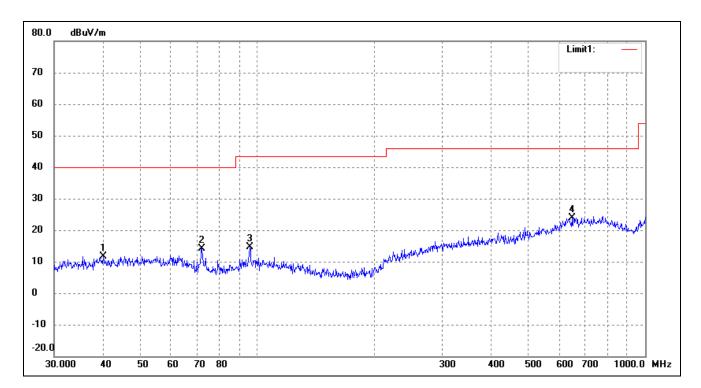


Test mode: Transmitting Channel 5785MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.5757	28.65	-16.59	12.06	40.00	-27.94	341	100	peak
2	59.6493	29.79	-16.51	13.28	40.00	-26.72	276	100	peak
3	109.4116	29.25	-16.62	12.63	43.50	-30.87	59	100	peak
4	747.4826	25.36	-0.13	25.23	46.00	-20.77	195	100	peak

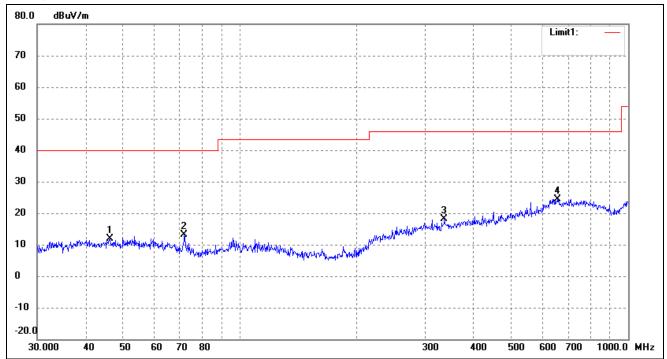




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	40.1347	28.23	-16.53	11.70	40.00	-28.30	144	100	peak
2	72.0843	33.13	-18.97	14.16	40.00	-25.84	92	100	peak
3	95.7622	31.87	-17.19	14.68	43.50	-28.82	123	100	peak
4	647.3856	25.11	-1.19	23.92	46.00	-22.08	234	100	peak

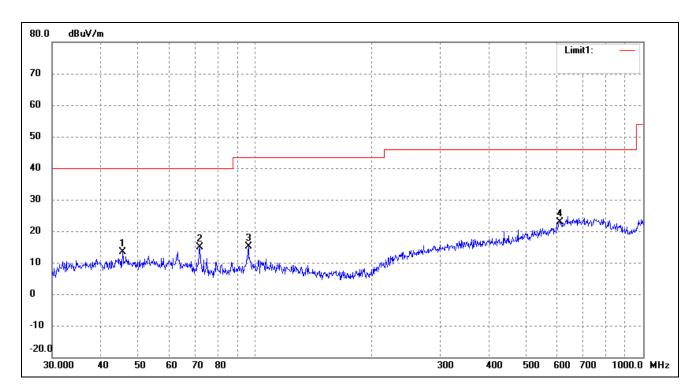


Test mode: Transmitting Channel 5510MHz



No	. Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	46.1780	28.47	-16.49	11.98	40.00	-28.02	96	100	peak
2	71.8320	32.10	-18.94	13.16	40.00	-26.84	280	100	peak
3	336.0352	27.69	-9.62	18.07	46.00	-27.93	105	100	peak
4	656.5300	25.84	-1.41	24.43	46.00	-21.57	259	100	peak

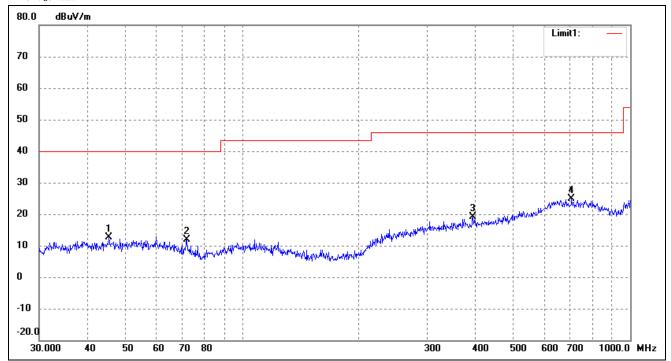




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.5348	29.78	-16.49	13.29	40.00	-26.71	314	100	peak
2	72.0843	33.76	-18.97	14.79	40.00	-25.21	99	100	peak
3	96.0986	32.31	-17.14	15.17	43.50	-28.33	199	100	peak
4	609.9217	23.96	-0.96	23.00	46.00	-23.00	111	100	peak

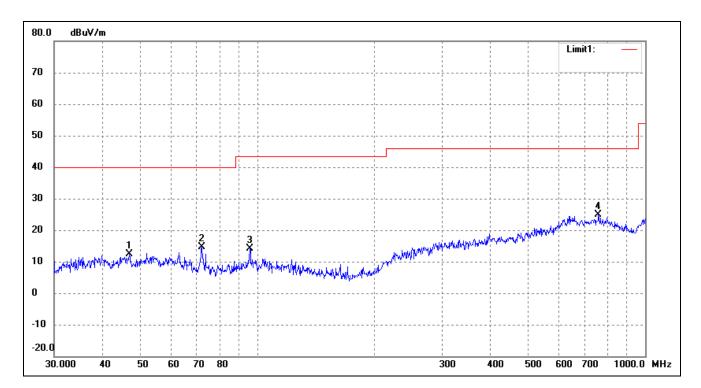


Test mode: Transmitting Channel 5590MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.3755	29.08	-16.49	12.59	40.00	-27.41	121	100	peak
2	72.0843	30.84	-18.97	11.87	40.00	-28.13	192	100	peak
3	393.4724	27.28	-8.14	19.14	46.00	-26.86	134	100	peak
4	706.6999	26.53	-1.59	24.94	46.00	-21.06	113	100	peak

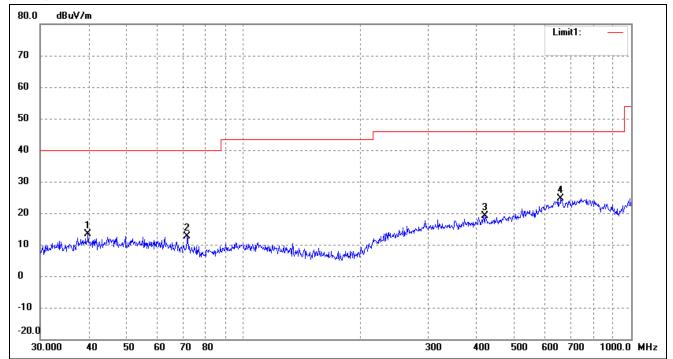




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	46.8303	28.95	-16.51	12.44	40.00	-27.56	81	100	peak
2	72.0843	33.51	-18.97	14.54	40.00	-25.46	148	100	peak
3	95.7622	31.25	-17.19	14.06	43.50	-29.44	72	100	peak
4	758.0408	25.34	-0.53	24.81	46.00	-21.19	102	100	peak

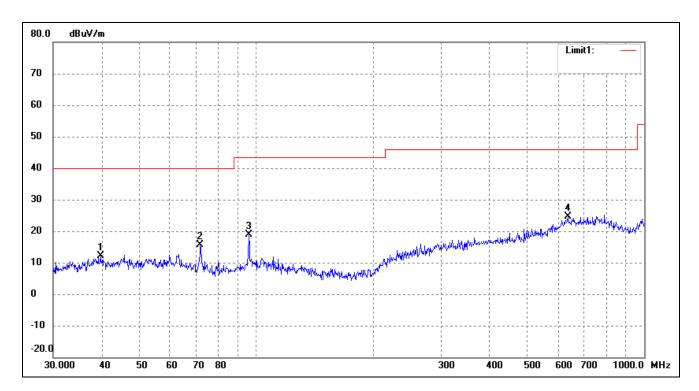


Test mode: Transmitting Channel 5670MHz



No	. Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.8542	29.81	-16.55	13.26	40.00	-26.74	70	100	peak
2	71.8320	31.67	-18.94	12.73	40.00	-27.27	175	100	peak
3	420.5803	27.36	-8.32	19.04	46.00	-26.96	84	100	peak
4	658.8362	26.15	-1.47	24.68	46.00	-21.32	132	100	peak

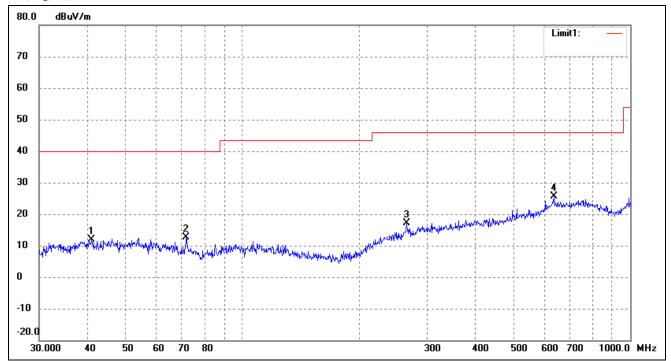




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.7147	28.74	-16.57	12.17	40.00	-27.83	338	100	peak
2	71.8320	34.45	-18.94	15.51	40.00	-24.49	67	100	peak
3	95.7622	36.19	-17.19	19.00	43.50	-24.50	141	100	peak
4	636.1340	25.79	-1.15	24.64	46.00	-21.36	338	100	peak

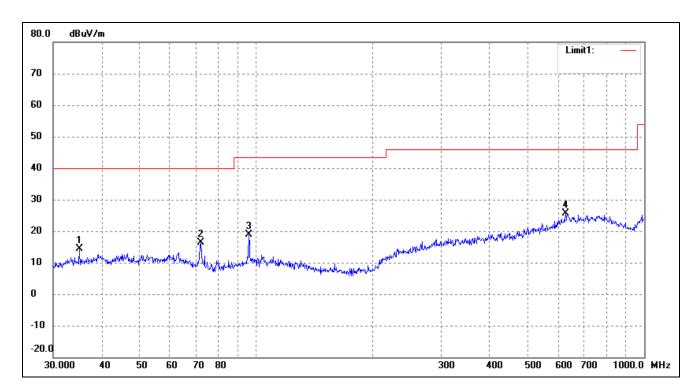


Test mode: Transmitting Channel 5755MHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	40.9881	28.31	-16.52	11.79	40.00	-28.21	124	100	peak
2	71.8320	31.45	-18.94	12.51	40.00	-27.49	142	100	peak
3	265.6757	28.60	-11.38	17.22	46.00	-28.78	86	100	peak
4	636.1340	26.69	-1.15	25.54	46.00	-20.46	290	100	peak

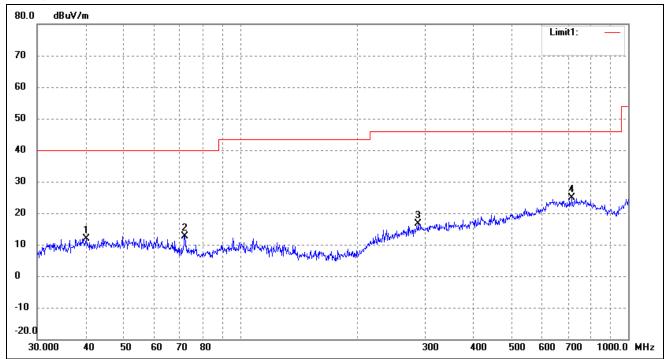




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	35.0048	31.73	-17.32	14.41	40.00	-25.59	90	100	peak
2	72.0843	35.34	-18.97	16.37	40.00	-23.63	270	100	peak
3	95.7622	36.19	-17.19	19.00	43.50	-24.50	91	100	peak
4	627.2738	27.01	-1.45	25.56	46.00	-20.44	75	100	peak



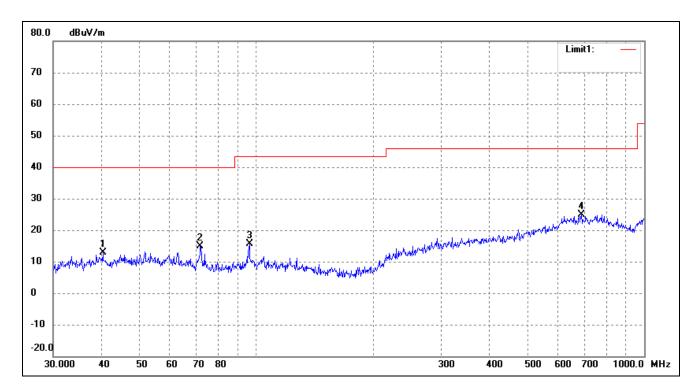
Test mode: Transmitting Channel 5795MHz



No	. Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	40.1347	28.47	-16.53	11.94	40.00	-28.06	345	100	peak
2	72.0843	31.62	-18.97	12.65	40.00	-27.35	93	100	peak
3	287.9904	26.56	-10.05	16.51	46.00	-29.49	242	100	peak
4	716.6820	26.10	-1.25	24.85	46.00	-21.15	103	100	peak



Test Specification: Vertical

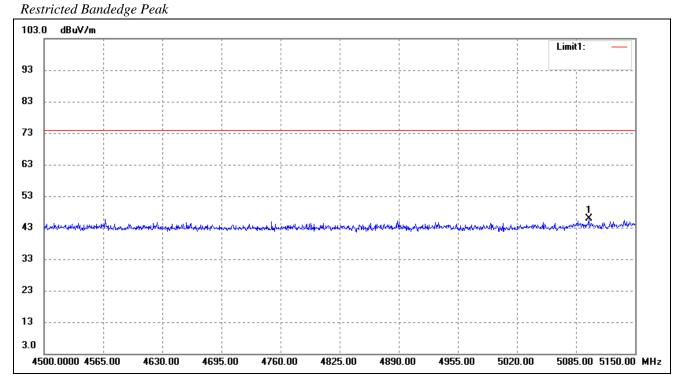


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	40.2757	29.47	-16.53	12.94	40.00	-27.06	238	100	peak
2	71.8320	33.89	-18.94	14.95	40.00	-25.05	90	100	peak
3	96.0986	32.67	-17.14	15.53	43.50	-27.97	270	100	peak
4	689.5644	25.89	-1.07	24.82	46.00	-21.18	91	100	peak



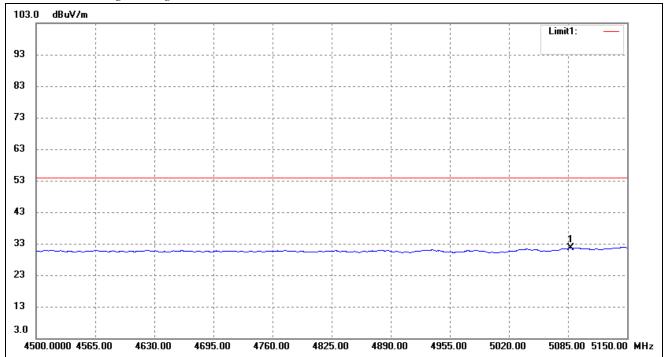
For 802.11a

Spurious Emission above 1GHz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5099.300	51.16	-5.33	45.83	74.00	-28.17	80	100	peak

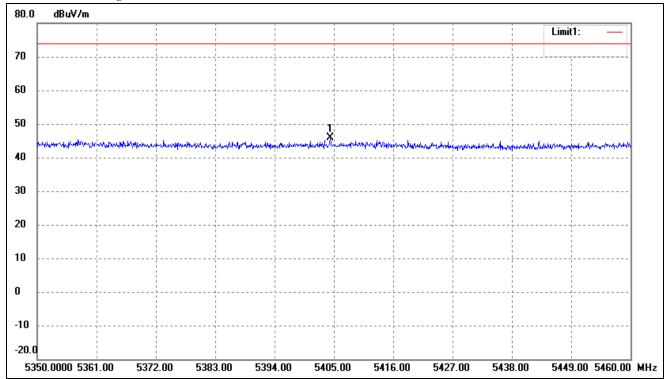




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5088.250	37.05	-5.37	31.68	54.00	-22.32	167	100	peak

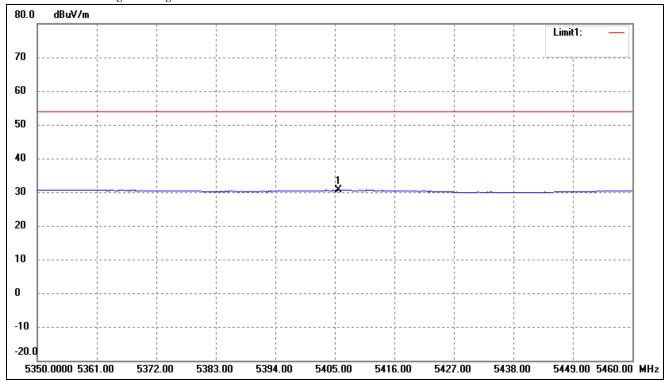


Restricted Bandedge Peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5404.340	50.08	-4.11	45.97	74.00	-28.03	65	100	peak





No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5405.660	34.64	-4.11	30.53	54.00	-23.47	65	100	peak



Hormonics And Spurious Emissions 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz

1101monics 1	Тиа Бриг		3510115 3.13	3.23 011	2, 5.250 5.	3300112, 3	. 17 0 3.723	0112, 5.72	3.03001	14,
Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
		dDu v		Low	Channel (5	180MHz)		dDu v/III		
15540	PK	48.98	196	V	40.7	10.9	39.6	60.98	74	-13.02
15540	PK	46.48	265	Н	40.7	10.9	39.6	58.48	74	-15.52
15540	AV	35.98	165	V	40.7	10.9	39.6	47.98	54	-6.02
15540	AV	35.48	221	Н	40.7	10.9	39.6	47.48	54	-6.52
13340	21,4	33.40	221		Channel (5		37.0	77.70	34	0.52
15720	PK	45.94	168	V	40.7	10.9	39.6	57.94	74	-16.06
15720	PK	44.57	235	Н	40.7	10.9	39.6	56.57	74	-17.43
15720	AV	38.87	214	V	40.7	10.9	39.6	50.87	54	-3.13
15720	AV	34.69	159	Н	40.7	10.9	39.6	46.69		-7.31
	<u> </u>				Channel (5					
15780	PK	47.65	265	V	40.1	10.6	39.7	58.65	74	-15.35
15780	PK	46.65	155	Н	40.1	10.6	39.7	57.65	74	-16.35
15780	AV	34.66	65	V	40.1	10.6	39.7	45.66	54	-8.34
15780	AV	34.65	159	Н	40.1	10.6	39.7	45.65	54	-8.35
	I .			High	Channel (5	320MHz)			l l	
15960	PK	49.32	162	V	39.5	10.4	39.7	59.52	74	-14.48
15960	PK	48.98	157	Н	39.5	10.4	39.7	59.18	74	-14.82
15960	AV	35.65	58	V	39.5	10.4	39.7	45.85	54	-8.15
15960	AV	35.28	132	Н	39.5	10.4	39.7	45.48	54	-8.52
				Low	Channel (5	500MHz)				
16500	PK	47.68	226	V	39.3	10.3	39.7	57.58	74	-16.42
16500	PK	47.02	321	Н	39.3	10.3	39.7	56.92	74	-17.08
16500	AV	34.61	155	V	39.3	10.3	39.7	44.51	54	-9.49
16500	AV	34.78	87	Н	39.3	10.3	39.7	44.68	54	-9.32
				High	Channel (5	700MHz)			,	
17100	PK	49.06	187	V	39.0	10.1	39.9	58.26	74	-15.74
17100	PK	48.35	169	Н	39.0	10.1	39.9	57.55	74	-16.45
17100	AV	35.71	236	V	39.0	10.1	39.9	44.91	54	-9.09
17100	AV	35.67	279	Н	39.0	10.1	39.9	44.87	54	-9.13
	ı	, ,		Low	Channel (5	745MHz)			, · · · · · · · · · · · · · · · · · · ·	
11490	PK	45.36	155	V	38.9	9.8	40.1	53.96	74	-20.04
11490	PK	48.61	171	Н	38.9	9.8	40.1	57.21	74	-16.79
11490	AV	35.65	151	V	38.9	9.8	40.1	44.25	54	-9.75
11490	AV	36.75	216	Н	38.9	9.8	40.1	45.35	54	-8.65



TEST Model: EZ-100

	High Channel (5825MHz)											
11610	PK	48.54	158	V	38.9	9.8	40.1	57.14	74	-16.86		
11610	PK	46.36	308	Н	38.9	9.8	40.1	54.96	74	-19.04		
11610	AV	34.64	285	V	38.9	9.8	40.1	43.24	54	-10.76		
11610	AV	37.88	246	Н	38.9	9.8	40.1	46.48	54	-7.52		

Out of Band edge for 5150-5250MHz

Tool CII	Test Segment	Result	Limit
Test CH.	MHz	dBm/MHz	dBm/MHz
Lowest	Below 5150	-42.65	-27
Highest	Above 5350	-45.65	-27
Note: the data just li	st the worst cases		

Out of Band edge for 5725-5850MHz

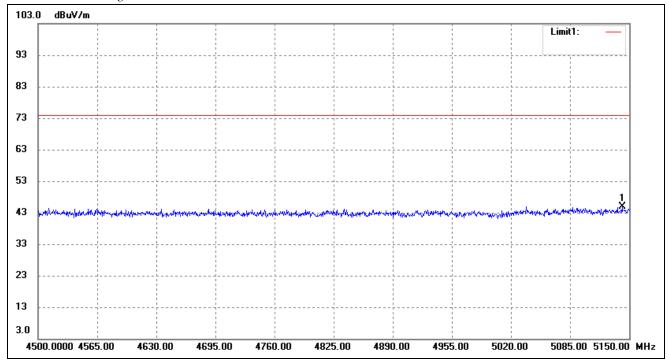
Took CII	Test Segment	Result	Limit
Test CH.	MHz	dBm/MHz	dBm/MHz
Lawast	Below 5715	-41.65	-27
Lowest	5715 to 5725	-40.32	-17
Highest	5850 to 5860	-43.51	-17
Highest	Above 5860	-42.65	-27
Note: the data just list	t the worst cases		

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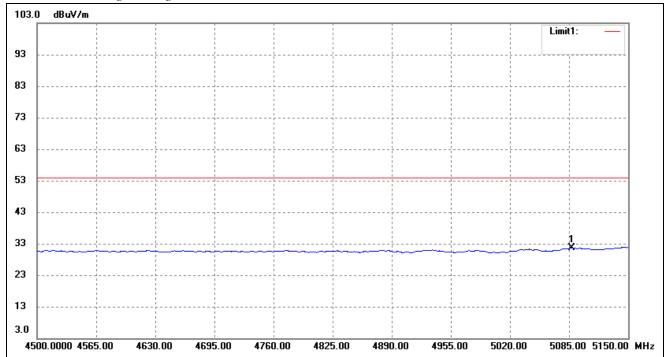
802.11n HT20

Restricted Bandedge Peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5142.200	50.05	-5.22	44.83	74.00	-29.17	167	100	peak

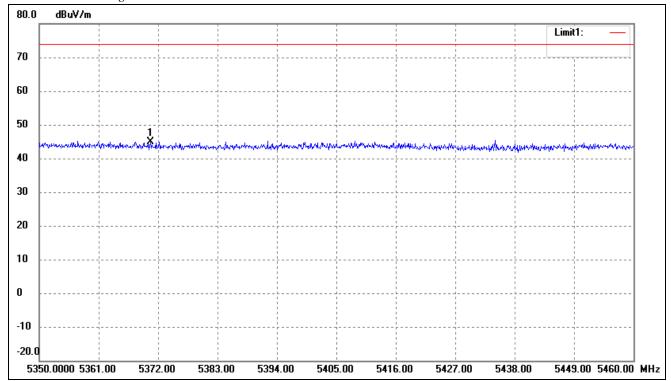




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5088.250	37.02	-5.37	31.65	54.00	-22.35	129	100	peak

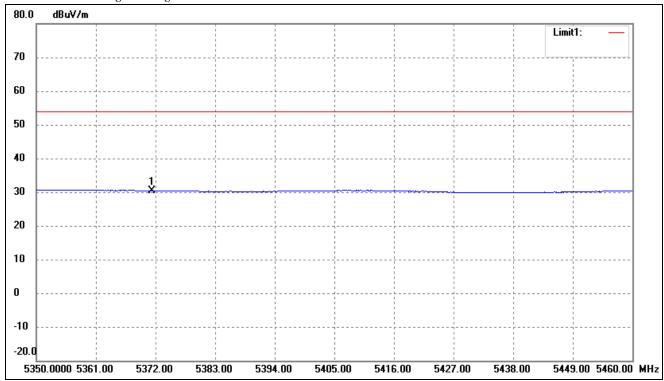


Restricted Bandedge Peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5370.570	48.98	-4.12	44.86	74.00	-29.14	167	100	peak





No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5371.340	34.53	-4.12	30.41	54.00	-23.59	167	100	peak



Hormonics And Spurious Emissions 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
				Low	Channel (5	180MHz)				
15540	PK	48.65	196	V	40.7	10.9	39.6	60.65	74	-13.35
15540	PK	45.14	265	Н	40.7	10.9	39.6	57.14	74	-16.86
15540	AV	34.65	165	V	40.7	10.9	39.6	46.65	54	-7.35
15540	AV	35.64	221	Н	40.7	10.9	39.6	47.64	54	-6.36
				High	Channel (5	5240MHz)				
15720	PK	47.32	168	V	40.7	10.9	39.6	59.32	74	-14.68
15720	PK	45.28	235	Н	40.7	10.9	39.6	57.28	74	-16.72
15720	AV	35.65	214	V	40.7	10.9	39.6	47.65	54	-6.35
15720	AV	34.21	159	Н	40.7	10.9	39.6	46.21	54	-7.79
				Low	Channel (5	260MHz)				
15780	PK	47.32	265	V	40.7	10.9	39.6	59.32	74	-14.68
15780	PK	45.28	155	Н	40.7	10.9	39.6	57.28	74	-16.72
15780	AV	35.65	65	V	40.7	10.9	39.6	47.65	54	-6.35
15780	AV	34.21	159	Н	40.7	10.9	39.6	46.21	54	-7.79
				654Hig	h Channel	(5320MH	z)			
15960	PK	48.36	162	V	39.5	10.4	39.7	57.52	74	-16.48
15960	PK	45.65	157	Н	39.5	10.4	39.7	55.48	74	-18.52
15960	AV	35.36	58	V	39.5	10.4	39.7	45.85	54	-8.15
15960	AV	34.31	132	Н	39.5	10.4	39.7	44.41	54	-9.59
	1			Low	Channel (5	500MHz)		<u> </u>		
16500	PK	46.87	226	V	39.3	10.3	39.7	57.07	74	-16.93
16500	PK	43.65	321	Н	39.3	10.3	39.7	53.85	74	-20.15
16500	AV	35.65	155	V	39.3	10.3	39.7	45.85	54	-8.15
16500	AV	34.65	87	Н	39.3	10.3	39.7	44.85	54	-9.15
				High	Channel (5	5700MHz)				
17100	PK	45.47	187	V	39.0	10.1	39.9	54.67	74	-19.33
17100	PK	43.65	169	Н	39.0	10.1	39.9	52.85	74	-21.15
17100	AV	32.36	236	V	39.0	10.1	39.9	41.56	54	-12.44
17100	AV	33.65	279	Н	39.0	10.1	39.9	42.85	54	-11.15
	1			Low	Channel (5	745MHz)		<u> </u>	, ,	
11490	PK	46.87	155	V	38.9	9.8	40.1	55.47	74	-18.53
11490	PK	45.01	171	Н	38.9	9.8	40.1	53.61	74	-20.39
11490	AV	36.31	151	V	38.9	9.8	40.1	44.91	54	-9.09
11490	AV	35.14	216	Н	38.9	9.8	40.1	43.74	54	-10.26
				High	Channel (5	5825MHz)				



TEST Model: EZ-100

11610	PK	48.29	158	V	38.9	9.8	40.1	56.89	74	-17.11
11610	PK	46.74	308	Н	38.9	9.8	40.1	55.34	74	-18.66
11610	AV	35.65	285	V	38.9	9.8	40.1	44.25	54	-9.75
11610	AV	34.36	246	Н	38.9	9.8	40.1	42.96	54	-11.04

Out of Band edge for 5150-5250MHz

Total CII	Test Segment	Result	Limit						
Test CH.	MHz	dBm/MHz	dBm/MHz						
Lowest	Below 5150	-41.65	-27						
Highest	Above 5350	-39.36	-27						
Note: the data just list the worst cases									

Out of Band edge for 5725-5850MHz

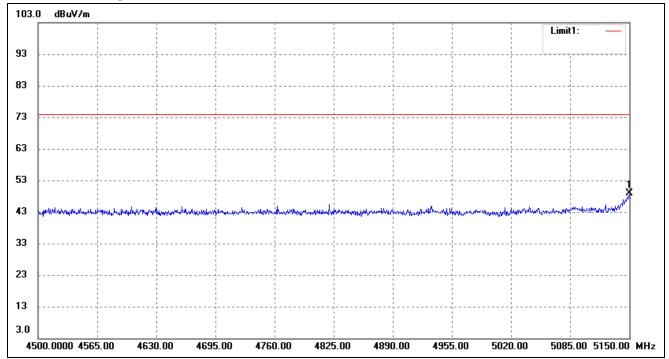
Total CII	Test Segment	Result	Limit
Test CH.	MHz	dBm/MHz	dBm/MHz
Lavvast	Below 5715	-38.65	-27
Lowest	5715 to 5725	-37.32	-17
III ahaat	5850 to 5860	-39.65	-17
Highest	Above 5860	-40.25	-27
Note: the data just li	st the worst cases		

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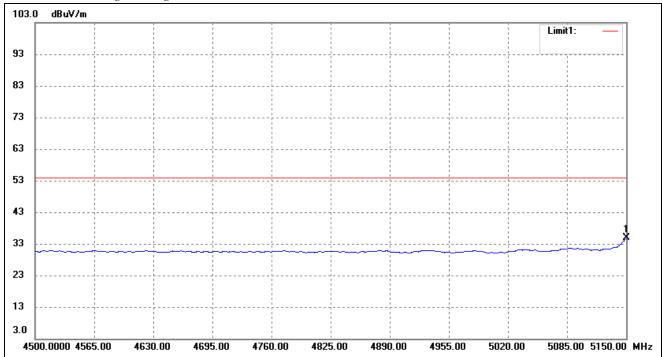
802.11n HT40

Restricted Bandedge Peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5150.000	54.06	-5.20	48.86	74.00	-25.14	95	100	peak

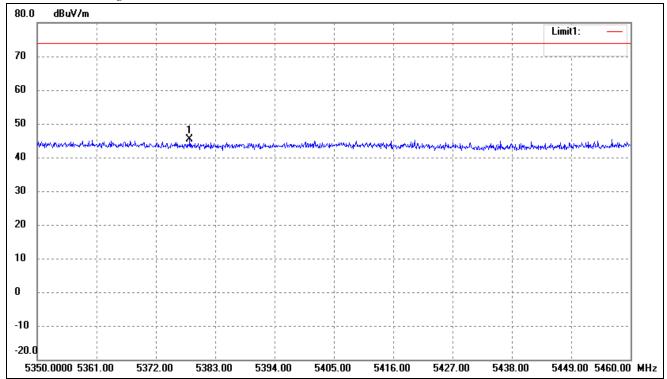




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5150.000	40.11	-5.20	34.91	54.00	-19.09	90	100	peak

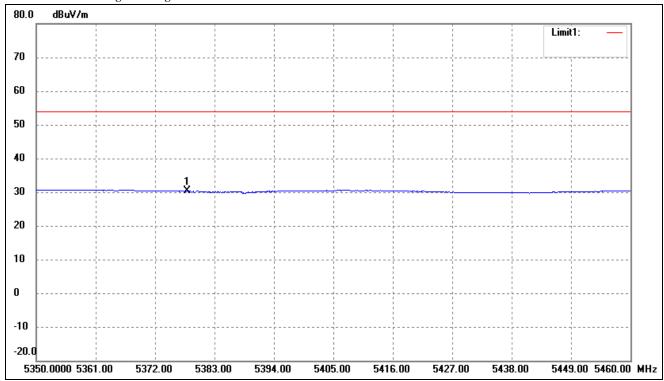


Restricted Bandedge Peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5378.270	49.56	-4.10	45.46	74.00	-28.54	55	100	peak





No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	5377.940	34.44	-4.10	30.34	54.00	-23.66	55	100	peak



Hormonics And Spurious Emissions 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
				Low	Channel (5	190MHz)				
15570	PK	45.98	196	V	40.7	10.9	39.6	57.98	74	-16.02
15570	PK	45.10	265	Н	40.7	10.9	39.6	57.10	74	-16.90
15570	AV	36.32	165	V	40.7	10.9	39.6	48.32	54	-5.68
15570	AV	35.65	221	Н	40.7	10.9	39.6	47.65	54	-6.35
	1			High	Channel (5	5230MHz)			, ,	
15690 PK 47.24 168 V 40.7 10.9 39.6 59.24 74 -14.										
15690	PK	46.69	235	Н	40.7	10.9	39.6	58.69	74	-15.31
15690	AV	38.65	214	V	40.7	10.9	39.6	50.65	54	-3.35
15690	AV	37.31	159	Н	40.7	10.9	39.6	49.31	54	-4.69
	1			Low	Channel (5	270MHz)			, ,	
15810	PK	48.32	265	V	40.7	10.9	39.6	60.32	74	-13.68
15810	PK	47.66	155	Н	40.7	10.9	39.6	59.66	74	-14.34
15810	AV	36.21	65	V	40.7	10.9	39.6	48.21	54	-5.79
15810	AV	35.98	159	Н	40.7	10.9	39.6	47.98	54	-6.02
				654Hig	h Channel	(5310MHz	2)			
15930	PK	47.21	162	V	39.5	10.4	39.7	57.41	74	-16.59
15930	PK	45.68	157	Н	39.5	10.4	39.7	55.88	74	-18.12
15930	AV	34.87	58	V	39.5	10.4	39.7	45.07	54	-8.93
15930	AV	35.64	132	Н	39.5	10.4	39.7	45.84	54	-8.16
				Low	Channel (5	510MHz)				
16530	PK	48.54	226	V	39.3	10.3	39.7	58.44	74	-15.56
16530	PK	46.61	321	Н	39.3	10.3	39.7	56.51	74	-17.49
16530	AV	36.21	155	V	39.3	10.3	39.7	46.11	54	-7.89
16530	AV	34.36	87	Н	39.3	10.3	39.7	44.26	54	-9.74
	1			High	Channel (5	670MHz)			, ,	
17010	PK	47.38	187	V	39.0	10.1	39.9	56.58	74	-17.42
17010	PK	45.71	169	Н	39.0	10.1	39.9	54.91	74	-19.09
17010	AV	34.25	236	V	39.0	10.1	39.9	43.45	54	-10.55
17010	AV	33.65	279	Н	39.0	10.1	39.9	42.85	54	-11.15
	1			Low	Channel (5	755MHz)			, ,	
17265	PK	47.10	155	V	38.9	9.8	40.1	55.70	74	-18.30
17265	PK	46.09	171	Н	38.9	9.8	40.1	54.69	74	-19.31
17265	AV	38.65	151	V	38.9	9.8	40.1	47.25	54	-6.75
17265	AV	37.65	216	Н	38.9	9.8	40.1	46.25	54	-7.75
				High	Channel (5	5795MHz)				



Model: EZ-100

17385	PK	49.32	158	V	38.9	9.8	40.1	57.92	74	-16.08
17385	PK	48.71	308	Н	38.9	9.8	40.1	57.31	74	-16.69
17385	AV	37.57	285	V	38.9	9.8	40.1	46.17	54	-7.83
17385	AV	37.27	246	Н	38.9	9.8	40.1	45.87	54	-8.13

Out of Band edge for 5150-5250MHz

Total CII	Test Segment	Result	Limit						
Test CH.	MHz	dBm/MHz	dBm/MHz						
Lowest	Below 5150	-45.21	-27						
Highest	Above 5350	-41.54	-27						
Note: the data just list the worst cases									

Out of Band edge for 5725-5850MHz

T4 CII	Test Segment	Result	Limit
Test CH.	MHz	dBm/MHz	dBm/MHz
Lawrest	Below 5715	-41.54	-27
Lowest	5715 to 5725	-37.21	-17
Highart	5850 to 5860	-38.36	-17
Highest	Above 5860	-40.65	-27
Note: the data just lis	st the worst cases		

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Model: EZ-100

10. Frequency Stability

10.1 Standard Applicable

According to §15.407(g), Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

10.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode

Temperature:	Supply Voltage
20°C DC 3.5-4.35V declared by manufacturer	
-30°C to +50°C	Normal

10.3 Environmental Conditions

Temperature:	20°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

10.4 Summary of Test Results/Plots

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5150-5250MHz

802.11a

Reference Frequency(Middle Channel): 5200 MHz				
Environment	Power Supplied	Frequency Measure	with Time Elapsed	
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)	
50	3.8	121	0.0233	
40	3.8	123	0.0237	
30	3.8	98	0.0188	
20	3.8	158	0.0304	
10	3.8	197	0.0379	
0	3.8	156	0.0300	
-10	3.8	162	0.0312	
-20	3.8	167	0.0321	
-30	3.8	126	0.0242	

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Reference Frequency(Middle Channel): 5200 MHz				
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure	with Time Elapsed Error (ppm)	
50	3.8	187	0.0360	
40	3.8	144	0.0277	
30	3.8	129	0.0248	
20	3.8	102	0.0196	
10	3.8	165	0.0317	
0	3.8	126	0.0242	
-10	3.8	121	0.0233	
-20	3.8	164	0.0315	
-30	3.8	135	0.0260	

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802.11n_HT40

Reference Frequency(Fixed Channel): 5230 MHz			
Environment	Power Supplied	Frequency Measure with Time Elapsed	
Temperature (°C)	(VAC)	MCF (Hz)	Error (ppm)
50	3.8	126	0.0241
40	3.8	147	0.0281
30	3.8	189	0.0361
20	3.8	165	0.0315
10	3.8	147	0.0281
0	3.8	168	0.0321
-10	3.8	155	0.0296
-20	3.8	169	0.0323
-30	3.8	122	0.0233

5250-5350MHz

802.11a

2.11a	Potoronoo Fraguenou//	Middle Channelly 5200 MH:	-		
Environment	Reference Frequency(Middle Channel): 5280 MHz Frequency Measure with Time Elapsed			Reference Frequency(N	
Temperature (°C)	Power Supplied (VDC)	MCF (Hz)	Error (ppm)		
50	3.8	175	0.0331		
40	3.8	136	0.0258		
30	3.8	172	0.0326		
20	3.8	169	0.0320		
10	3.8	141	0.0267		
0	3.8	129	0.0244		
-10	3.8	169	0.0320		
-20	3.8	157	0.0297		
-30	3.8	117	0.0222		

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802.11n_HT20

Reference Frequency(Middle Channel): 5280MHz				
Environment	Power Supplied	Frequency Measure with Time Elapsed		
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)	
50	3.8	139	0.0263	
40	3.8	147	0.0278	
30	3.8	120	0.0227	
20	3.8	189	0.0358	
10	3.8	126	0.0239	
0	3.8	122	0.0231	
-10	3.8	136	0.0258	
-20	3.8	157	0.0297	
-30	3.8	189	0.0358	

802.11n_HT40

	Reference Frequency(Fixed Channel): 5310 MHz				
Environment Temperature (°C)	Power Supplied (VAC)	Frequency Measure	e with Time Elapsed Error (ppm)		
50	3.8	176	0.0331		
40	3.8	126	0.0237		
30	3.8	147	0.0277		
20	3.8	138	0.0260		
10	3.8	195	0.0367		
0	3.8	162	0.0305		
-10	3.8	158	0.0298		
-20	3.8	126	0.0237		
-30	3.8	147	0.0277		

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5470-5725MHz

802.11a

Reference Frequency(Middle Channel): 5600 MHz				
Environment	Power Supplied	Frequency Measure	with Time Elapsed	
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)	
50	3.8	139	0.0248	
40	3.8	175	0.0313	
30	3.8	126	0.0225	
20	3.8	157	0.0280	
10	3.8	148	0.0264	
0	3.8	169	0.0302	
-10	3.8	156	0.0279	
-20	3.8	178	0.0318	
-30	3.8	167	0.0298	

802.11n_HT20

Reference Frequency(Middle Channel): 5600 MHz				
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure	with Time Elapsed Error (ppm)	
50	3.8	145	0.0259	
40	3.8	165	0.0295	
30	3.8	178	0.0318	
20	3.8	175	0.0313	
10	3.8	136	0.0243	
0	3.8	158	0.0282	
-10	3.8	138	0.0246	
-20	3.8	187	0.0334	
-30	3.8	175	0.0313	

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802.11n_HT40

Reference Frequency(Middle Channel): 5590 MHz			
Environment	Dower Countied	Frequency Measure with Time Elapsed	
Temperature (°C)	Power Supplied (VAC)	MCF (Hz)	Error (ppm)
50	3.8	165	0.0295
40	3.8	147	0.0263
30	3.8	162	0.0290
20	3.8	116	0.0208
10	3.8	173	0.0309
0	3.8	114	0.0204
-10	3.8	168	0.0301
-20	3.8	114	0.0204
-30	3.8	135	0.0242

5725-5850MHz

802.11a

Reference Frequency(Middle Channel): 5785MHz				
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure	e with Time Elapsed Error (ppm)	
50	3.8	168	0.0301	
40	3.8	165	0.0295	
30	3.8	157	0.0281	
20	3.8	126	0.0225	
10	3.8	127	0.0227	
0	3.8	165	0.0295	
-10	3.8	126	0.0225	
-20	3.8	147	0.0263	
-30	3.8	168	0.0301	

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802.1<u>1n_HT20</u>

Reference Frequency(Middle Channel): 5785 MHz			
Environment	Power Supplied	Frequency Measure	with Time Elapsed
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)
50	3.8	175	0.0303
40	3.8	126	0.0218
30	3.8	157	0.0271
20	3.8	165	0.0285
10	3.8	126	0.0218
0	3.8	177	0.0306
-10	3.8	165	0.0285
-20	3.8	136	0.0235
-30	3.8	165	0.0285

802.11n_HT40

Reference Frequency(Fixed Channel): 5755 MHz			
Environment	Power Supplied	Frequency Measure	with Time Elapsed
Temperature (°C)	(VAC)	MCF (Hz)	Error (ppm)
50	3.8	174	0.0302
40	3.8	155	0.0269
30	3.8	121	0.0210
20	3.8	173	0.0301
10	3.8	125	0.0217
0	3.8	165	0.0287
-10	3.8	145	0.0252
-20	3.8	168	0.0292
-30	3.8	147	0.0255

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So, Frequency Stability Versus Input Voltage is:

5150-5250MHz

802.11a

Reference Frequency(Middle Channel): 5200 MHz			
Environment		Frequency Measure with Time Elapsed	
Temperature (℃)	Power Supplied (VDC)	Frequency (Hz)	Error (ppm)
20	3.5	155	0.0298
	3.8	158	0.0304
	4.35	157	0.0302

802.11n_HT20

Reference Frequency(Middle Channel): 5200 MHz			
Environment		Frequency Measure with Time Elapsed	
Temperature ($^{\circ}\mathbb{C}$)	Power Supplied (VDC)	Frequency (Hz)	Error (ppm)
	3.3	108	0.0208
20	3.8	102	0.0196
	4.2	106	0.0204

802.11n_HT40

Reference Frequency(Middle Channel): 5230 MHz			
Environment	D 0 " 1	Frequency Measure with Time Elapsed	
Temperature (℃)	Power Supplied (VAC)	Frequency (Hz)	Error (ppm)
20	3.3	168	0.0321
	3.8	165	0.0315
	4.2	165	0.0315

5250-5350MHz

802.11a

Reference Frequency(Middle Channel): 5280 MHz			
Environment	5 0 " 1	Frequency Measure with Time Elapsed	
Temperature (℃)	Power Supplied (VAC)	Frequency (Hz)	Error (ppm)
20	3.3	168	0.0318
	3.8	169	0.0320
	4.2	177	0.0335



802.11n_HT20

Reference Frequency(Middle Channel): 5280 MHz			
Environment	De la Caralia I	Frequency Measure	with Time Elapsed
Temperature (℃)	Power Supplied (VAC)	Frequency (Hz)	Error (ppm)
20	3.3	197	0.0373
	3.8	189	0.0358
	4.2	186	0.0352

802.11n_HT40

Reference Frequency(Fixed Channel): 5310 MHz			
Environment		Frequency Measure with Time Elapsed	
Temperature (℃)	Power Supplied (VAC)	Frequency (Hz)	Error (ppm)
	3.3	145	0.0273
20	3.8	138	0.0260
	4.2	146	0.0275

5470-5725MHz

802.11a

Reference Frequency(Middle Channel): 5600 MHz			
Environment	Davier Consultad	Frequency Measure	with Time Elapsed
Temperature (℃)	Power Supplied (VAC)	Frequency (Hz)	Error (ppm)
20	3.3	165	0.0295
	3.8	157	0.0280
	4.2	159	0.0284

802.11n_HT20

Reference Frequency(Middle Channel): 5600 MHz			
Environment		Frequency Measure with Time Elapsed	
Temperature (℃)	Power Supplied (VAC)	Frequency (Hz)	Error (ppm)
	3.3	178	0.0318
20	3.8	175	0.0313
	4.2	181	0.0323

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802.11n_HT40

Reference Frequency(Middle Channel): 5590 MHz			
Environment	D 0 1: 1	Frequency Measure	with Time Elapsed
Temperature (℃)	Power Supplied (VAC)	Frequency (Hz)	Error (ppm)
	3.3	118	0.0211
20	3.8	116	0.0208
	4.2	121	0.0216

5725-5850MHz

802.11a

2.11α					
Reference Frequency(Middle Channel): 5785 MHz					
Environment	Power Supplied (VAC)	Frequency Measure with Time Elapsed			
Temperature (℃)		Frequency (Hz)	Error (ppm)		
20	3.3	127	0.0220		
	3.8	126	0.0218		
	4.2	122	0.0211		

802.11n_HT20

<i>92.1111_111.20</i>						
Reference Frequency(Middle Channel): 5785 MHz						
Environment	onment Frequency Measure with Time Elapsed					
Temperature ($^{\circ}$ C)	Power Supplied (VAC)	Frequency (Hz)	Error (ppm)			
20	3.3	165	0.0285			
	3.8	165	0.0285			
	4.2	167	0.0289			

802.11n_HT40

Reference Frequency(Fixed Channel): 5755 MHz						
Environment	Power Supplied (VAC)	Frequency Measure with Time Elapsed				
Temperature (℃)		Frequency (Hz)	Error (ppm)			
20	3.3	169	0.0294			
	3.8	173	0.0301			
	4.2	177	0.0308			

***** END OF REPORT *****