

FCC 47 CFR PART 15 SUBPART E

Product Type : Lenovo Pocket Projector
Applicant : Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address : No. 68 Building, 199 Fenju Road, Wai Gao Qiao FTZ , Shanghai ,
China
Trade Name : Lenovo
Model Number : P0510
Test Specification : FCC 47 CFR PART 15 SUBPART E: Oct., 2014
ANSI C63.10:2013
Application Purpose : Original
Receive Date : Jul. 16, 2015
Test Period : Aug. 28 ~ Sep. 04, 2015
Issue Date : Sep. 15, 2015

Issue by

A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Sep. 15, 2015	Initial Issue	

Verification of Compliance

Issued Date: 09/15/2015

Product Type : Lenovo Pocket Projector
Applicant : Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address : No. 68 Building, 199 Fenju Road, Wai Gao Qiao FTZ ,
Shanghai , China
Trade Name : Lenovo
Model Number : P0510
FCC ID : O57P0510
EUT Rated Voltage : DC 5.2V, 2A
Test Voltage : 120 Vac / 60 Hz
Applicable Standard : FCC 47 CFR PART 15 SUBPART E: Oct., 2014
ANSI C63.10:2013
Test Result : Complied
Application Purpose : Original
Performing Lab. : A Test Lab Techno Corp.

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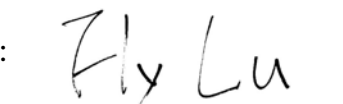
Taiwan Accreditation Foundation accreditation number: 1330

<http://www.atl-lab.com.tw/e-index.htm>



A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

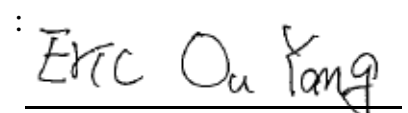
Approved By :



(Manager)

(Fly Lu)

Reviewed By :



(Testing Engineer)

(Eric Ou Yang)

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1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
15.407(b)(6) 15.207	AC Power Conducted Emission	PASS	---
15.407(b) 15.205 / 15.209	Transmitter Radiated Emissions	PASS	---
15.407(a)	Maximum Conducted Output Power	PASS	---
15.407(a)	26dB RF Bandwidth	Reference	---
15.407(a)	6dB RF Bandwidth	PASS	----
15.407(a)	Peak Power Spectral Density	PASS	---
15.407(g)	Frequency Stability	PASS	---
15.407(a) 15.203	Antenna Requirement	PASS	---

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

1.2. Measurement Uncertainty

Measurement Item	Frequency Range		Uncertainty (dB)
Conducted Emission	9kHz ~ 30MHz		± 2.020
Radiated Emission	30MHz ~ 1000MHz	Horizontal	± 3.960
		Vertical	± 3.570
	1000MHz ~ 18000MHz	Horizontal	± 3.072
		Vertical	± 3.028
	18000MHz ~ 40000MHz	Horizontal	± 3.622
		Vertical	± 3.506

2 EUT Description

Product Type	Lenovo Pocket Projector				
Trade Name	Lenovo				
Model No.	P0510				
Applicant	Lenovo (Shanghai) Electronics Technology Co., Ltd. No. 68 Building, 199 Fenju Road, Wai Gao Qiao FTZ , Shanghai , China				
Manufacturer	Lenovo PC HK Limited 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong,China				
FCC ID	O57P0510				
Operate Freq. Band	Frequency Range (MHz)	Band	Channel Bandwidth	Number of Channels	Data Rate 400 GI (ns)
IEEE 802.11a	5180 – 5240	U-NII Band I	20MHz	4	Up to 54Mbps
	5260 – 5320	U-NII Band II-A		4	
	5500 – 5700	U-NII Band II-C		11	
	5745 – 5825	U-NII Band III		5	
IEEE 802.11n 20 MHz	5180 – 5240	U-NII Band I	20MHz	4	Up to 144.4Mbps
	5260 – 5320	U-NII Band II-A		4	
	5500 – 5700	U-NII Band II-C		11	
	5745 – 5825	U-NII Band III		5	
IEEE 802.11n 40 MHz	5190 – 5230	U-NII Band I	40MHz	2	Up to 300Mbps
	5270 – 5310	U-NII Band II-A		2	
	5510 – 5670	U-NII Band II-C		5	
	5755 – 5795	U-NII Band III		2	
Modulation Type	OFDM				
Equipment Type	Client (without radar detection function)				
Antenna Type	FPC Antenna				
Antenna Gain	2 dBi				
Antenna Delivery	IEEE 802.11a: 1TX + 1RX IEEE 802.11n 20MHz / 40MHz: 2TX + 2RX				
RF Output Power	IEEE 802.11a U-NII Band I : 0.0032 W / 5.00 dBm IEEE 802.11a U-NII Band II-A : 0.0051 W / 7.10 dBm IEEE 802.11a U-NII Band II-C : 0.0094 W / 9.71 dBm IEEE 802.11a U-NII Band III : 0.0043 W / 6.31 dBm IEEE 802.11n 20MHz U-NII Band I: 0.0038 W / 5.78 dBm IEEE 802.11n 20MHz U-NII Band II-A: 0.0049 W / 6.92 dBm IEEE 802.11n 20MHz U-NII Band II-C: 0.0079 W / 8.96 dBm IEEE 802.11n 20MHz U-NII Band III: 0.0040 W / 6.02 dBm IEEE 802.11n 40MHz U-NII Band I: 0.0031 W / 4.98 dBm IEEE 802.11n 40MHz U-NII Band II-A: 0.0045W / 6.50 dBm IEEE 802.11n 40MHz U-NII Band II-C: 0.0074 W / 8.68 dBm IEEE 802.11n 40MHz U-NII Band III: 0.0034 W / 5.29 dBm				
Operate Temp. Range	0 ~ 45 °C				

3 Test Methodology

3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Normal Operation Mode
Mode 2: IEEE 802.11a Link Mode
Mode 3: IEEE 802.11n 20MHz Link Mode
Mode 4: IEEE 802.11n 40MHz Link Mode

Software used to control the EUT for staying in continuous transmitting mode was programmed.

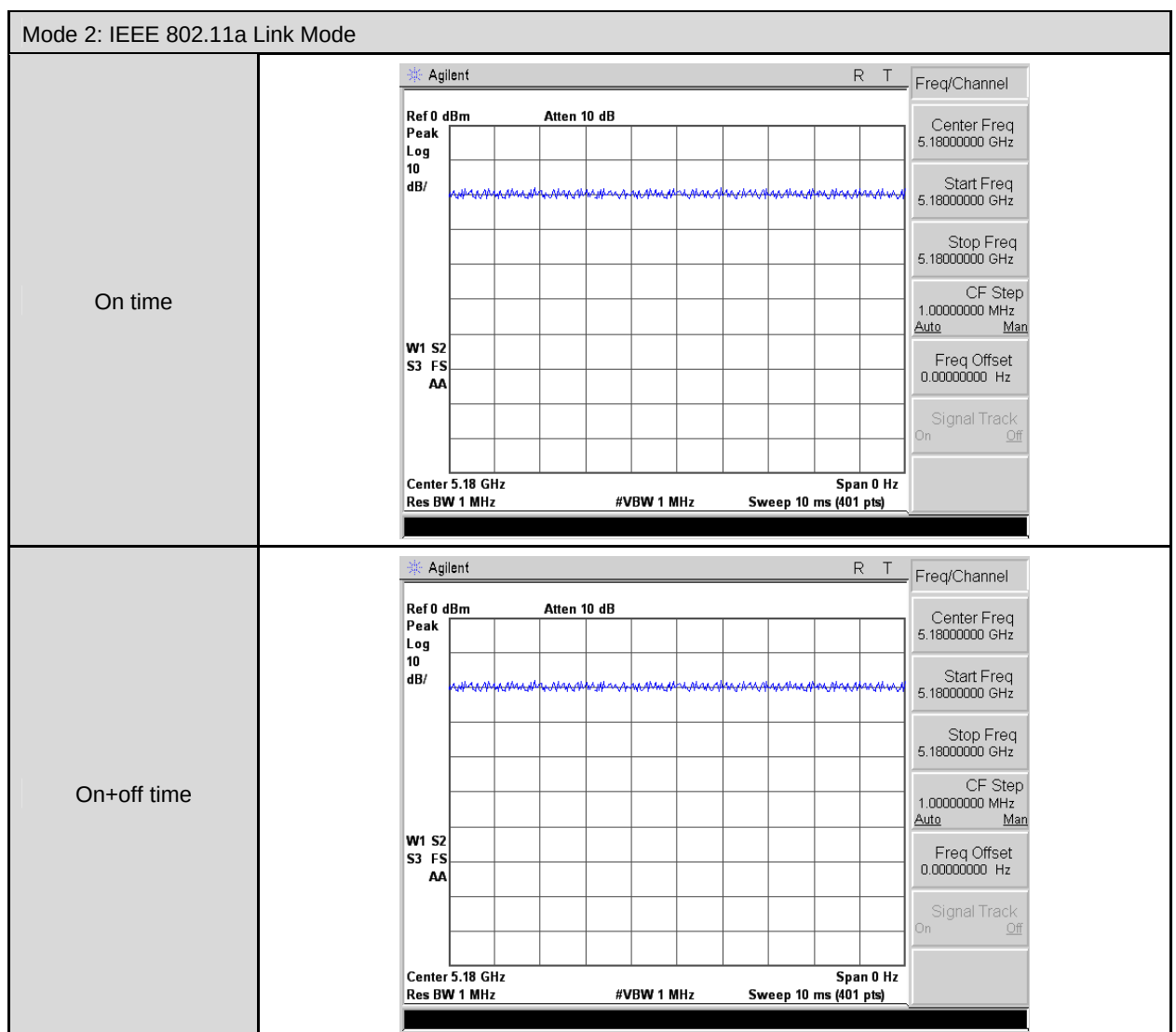
After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

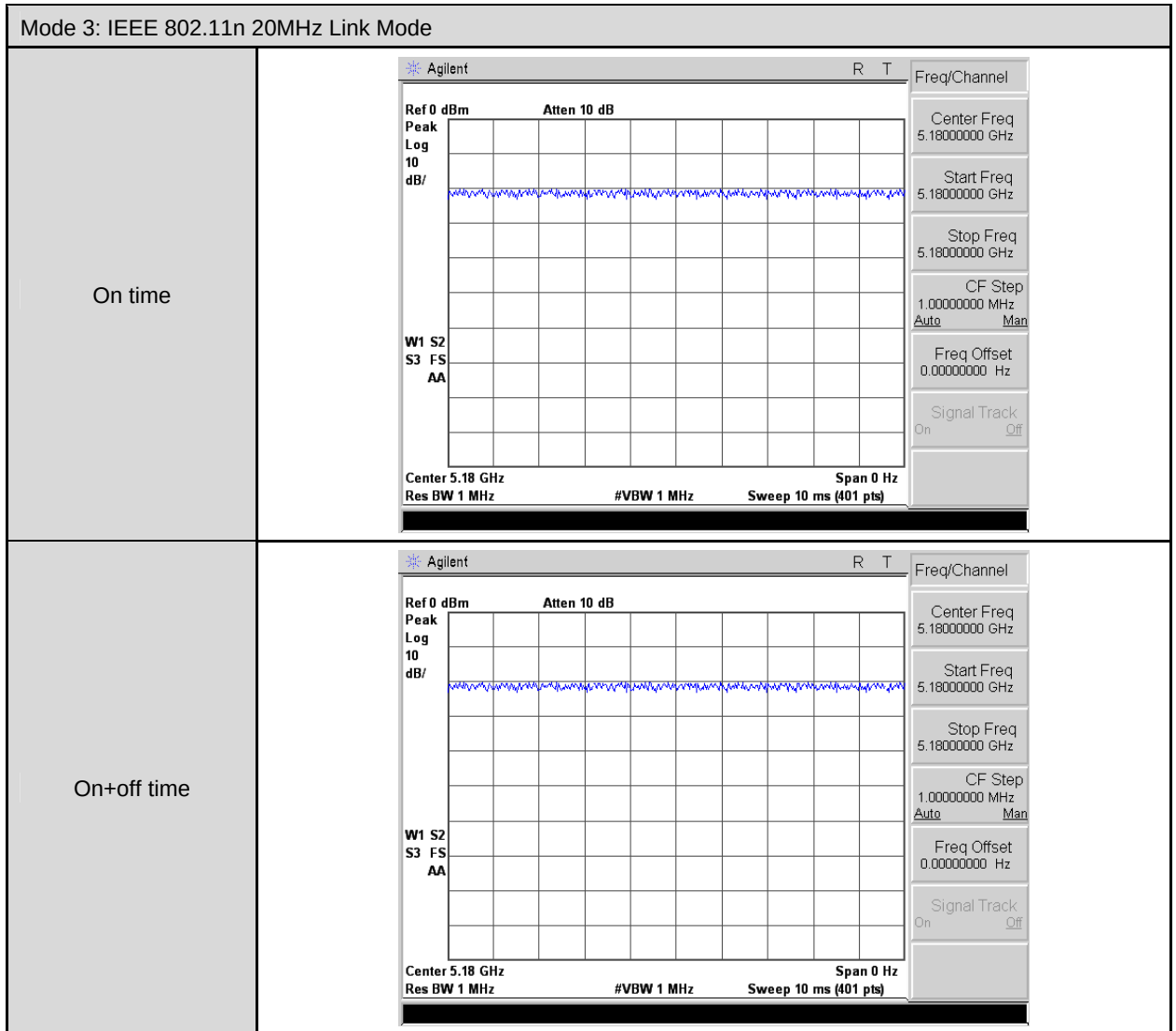
Test Mode	ANT-0	ANT-1	ANT-0+1
Mode 2: IEEE 802.11a Link Mode	V	V	
Mode 3: IEEE 802.11n 20MHz Link Mode	V	V	V
Mode 4: IEEE 802.11n 40MHz Link Mode	V	V	V

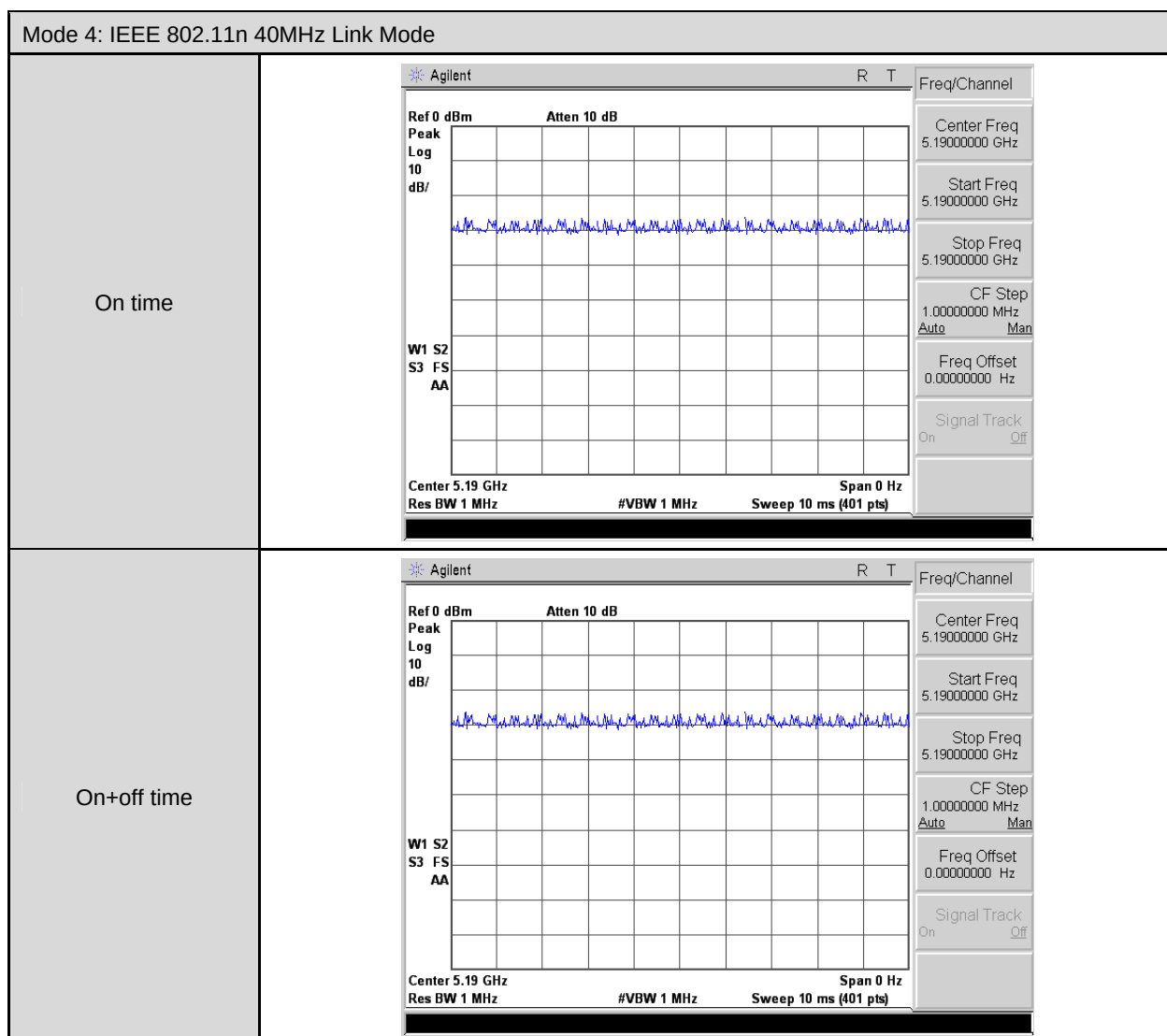
Test Mode	Band	Data Rate 800 GI (ns)	Test Channel
IEEE 802.11a Link Mode	U-NII Band I	6M	36, 44, 48
	U-NII Band II-A		52, 56, 64
	U-NII Band II-C		100, 116, 140
	U-NII Band III		149, 157, 165
IEEE 802.11n 20MHz Link Mode	U-NII Band I	13M	36, 44, 48
	U-NII Band II-A		52, 56, 64
	U-NII Band II-C		100, 116, 140
	U-NII Band III		149, 157, 165
IEEE 802.11n 40MHz Link Mode	U-NII Band I	27M	38, 46
	U-NII Band II-A		54, 62
	U-NII Band II-C		102, 110, 134
	U-NII Band III		151, 159

Duty cycle

Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2: IEEE 802.11a Link Mode	5180.0	1.000	1.000	1.000	0.000	0.010
Mode 3: IEEE 802.11n 20MHz Link Mode	5180.0	1.000	1.000	1.000	0.000	0.010
Mode 4: IEEE 802.11n 40MHz Link Mode	5190.0	1.000	1.000	1.000	0.000	0.010







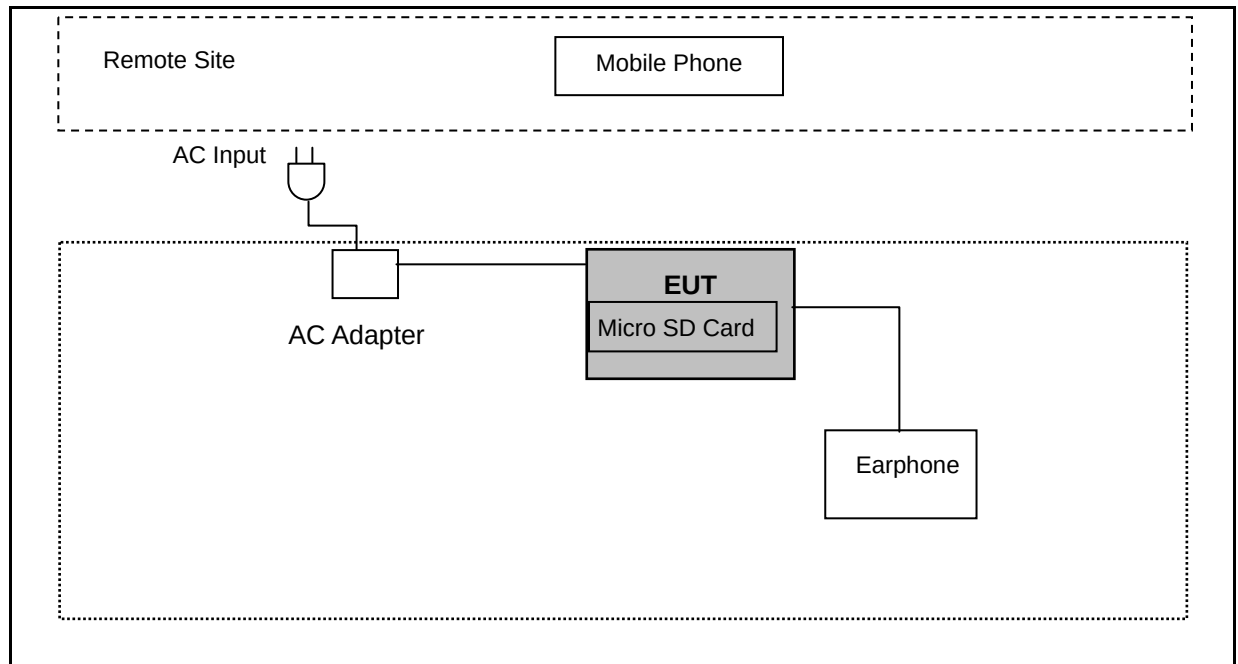
3.2. EUT Exercise Software

The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement. According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

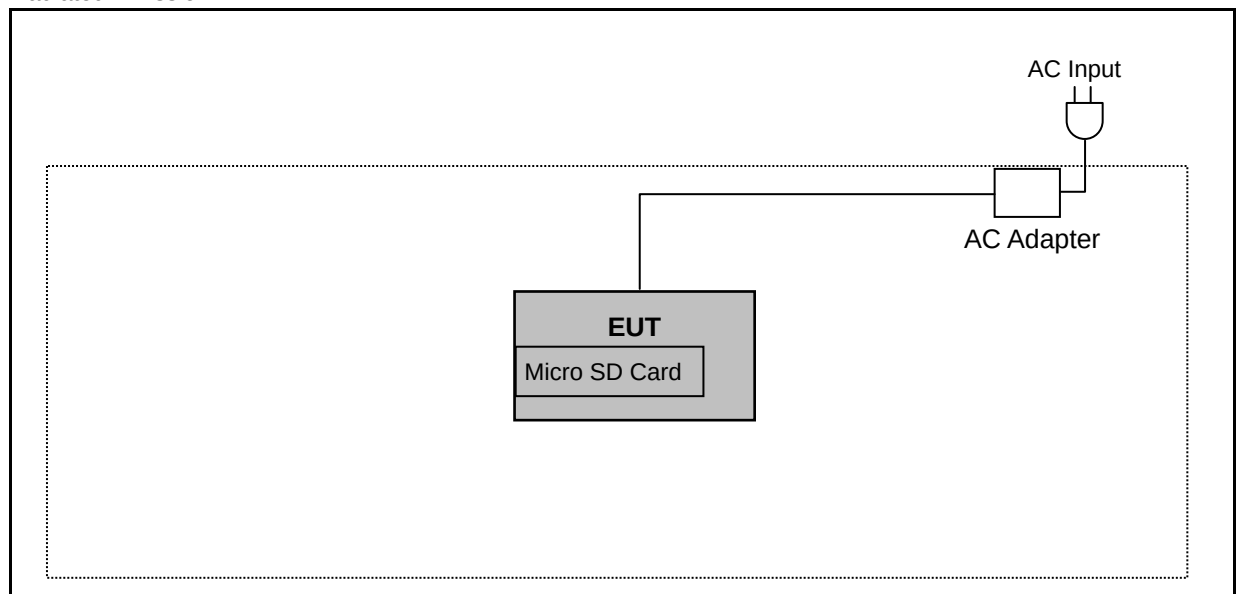
1.	Setup the EUT shown on 3.3.
2.	Turn on the power of all equipment.
3.	Turn on Wi-Fi function.
4.	EUT run test program.

3.3. Configuration of Test System Details

Conducted Emission



Radiated Emission



3.4. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

4 AC Power Conducted Emission Measurement

4.1. Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

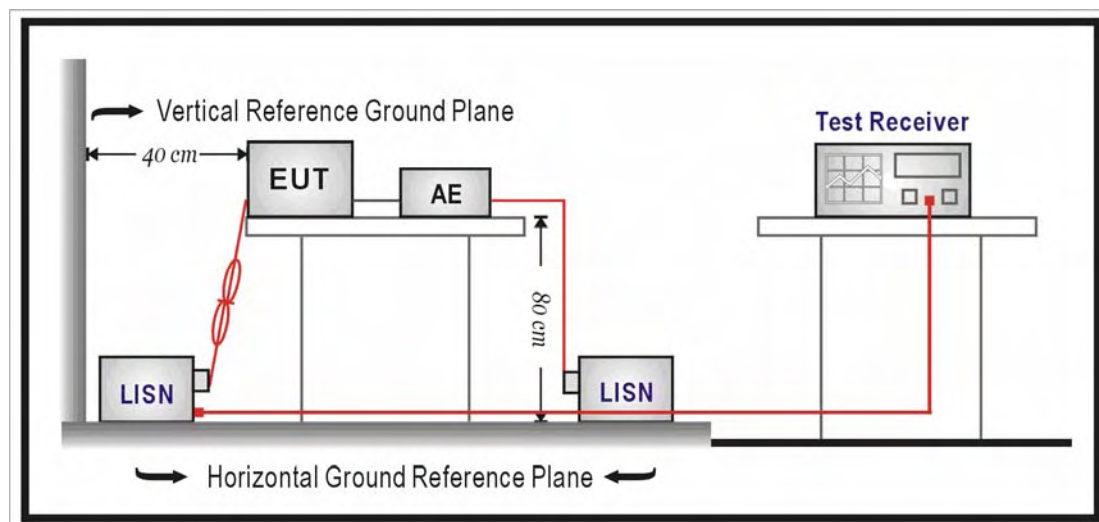
4.2. Test Instruments

Describe	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Test Receiver	R&S	ESCI	100367	06/25/2015	(1)
LISN	R&S	ENV216	101040	03/10/2015	(1)
LISN	R&S	ENV216	101041	03/06/2015	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

4.3. Test Setup



4.4. Test Procedure

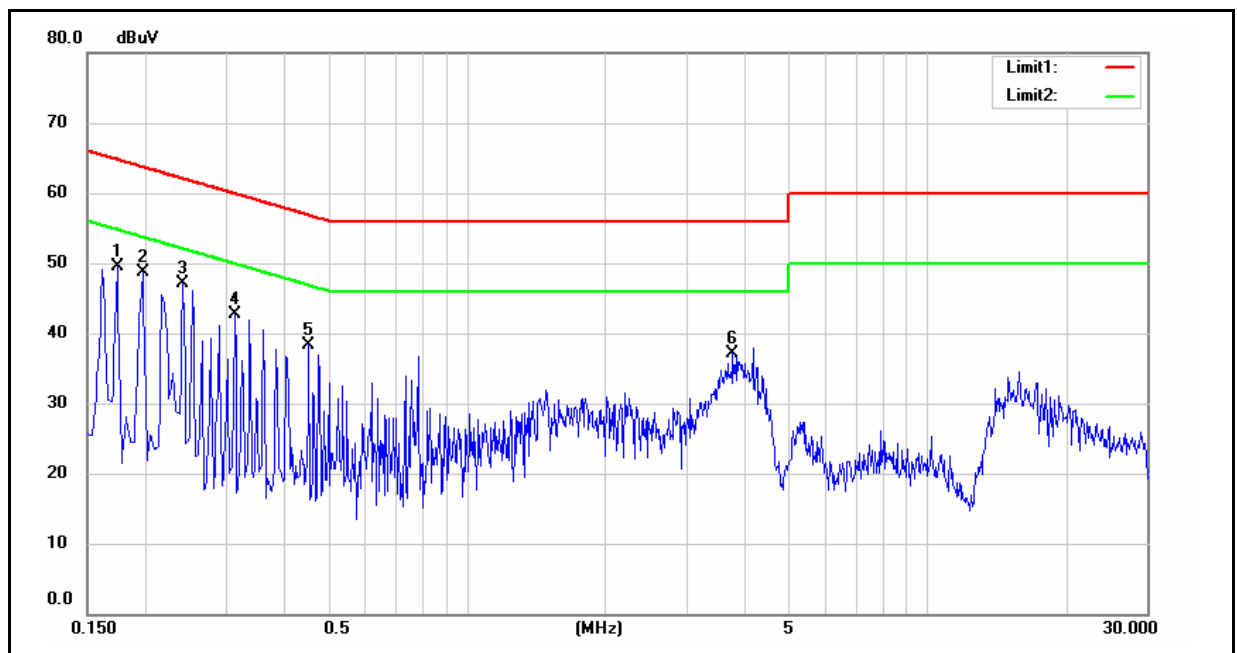
The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 4.1.

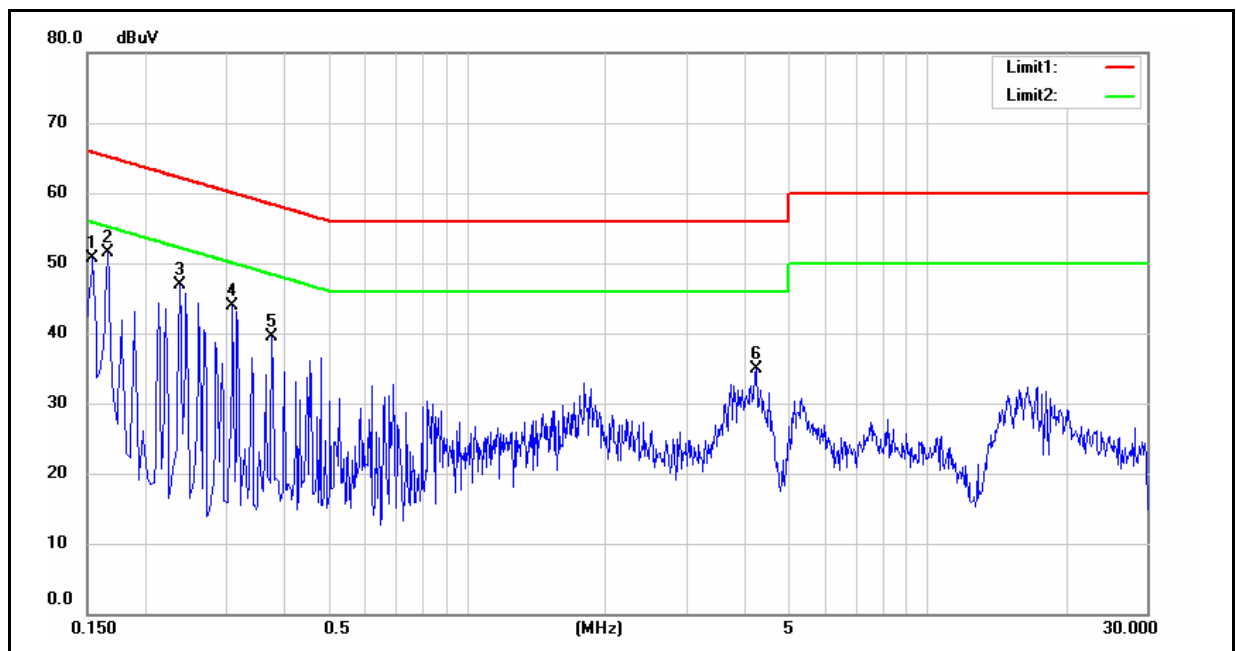
4.5. Test Result

Standard:	FCC Part 15E	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Test Mode:	Mode 1	Date:	08/28/2015
		Test By:	Eric Ou Yang
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1740	33.40	10.23	9.58	42.98	19.81	64.77	54.77	-21.79	-34.96	Pass
2	0.1980	32.70	8.79	9.58	42.28	18.37	63.69	53.69	-21.41	-35.32	Pass
3	0.2420	29.58	10.32	9.58	39.16	19.90	62.03	52.03	-22.87	-32.13	Pass
4	0.3140	25.24	4.31	9.59	34.83	13.90	59.86	49.86	-25.03	-35.96	Pass
5	0.4540	20.21	2.87	9.60	29.81	12.47	56.80	46.80	-26.99	-34.33	Pass
6	3.7820	21.29	7.50	9.72	31.01	17.22	56.00	46.00	-24.99	-28.78	Pass

Standard:	FCC Part 15E	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Test Mode:	Mode 1	Date:	08/28/2015
		Test By:	Eric Ou Yang
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	36.62	19.05	9.58	46.20	28.63	65.78	55.78	-19.58	-27.15	Pass
2	0.1660	34.29	17.67	9.58	43.87	27.25	65.16	55.16	-21.29	-27.91	Pass
3	0.2380	29.86	6.84	9.58	39.44	16.42	62.17	52.17	-22.73	-35.75	Pass
4	0.3100	24.63	3.74	9.59	34.22	13.33	59.97	49.97	-25.75	-36.64	Pass
5	0.3780	22.25	2.98	9.59	31.84	12.57	58.32	48.32	-26.48	-35.75	Pass
6	4.2380	17.77	7.88	9.75	27.52	17.63	56.00	46.00	-28.48	-28.37	Pass

5 Radiated Emission Measurement

5.1. Limit

Limits of Radiated Emission Measurement

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	10	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note: 1. The lower limit shall apply at the transition frequencies.

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

5.2. Test Instruments

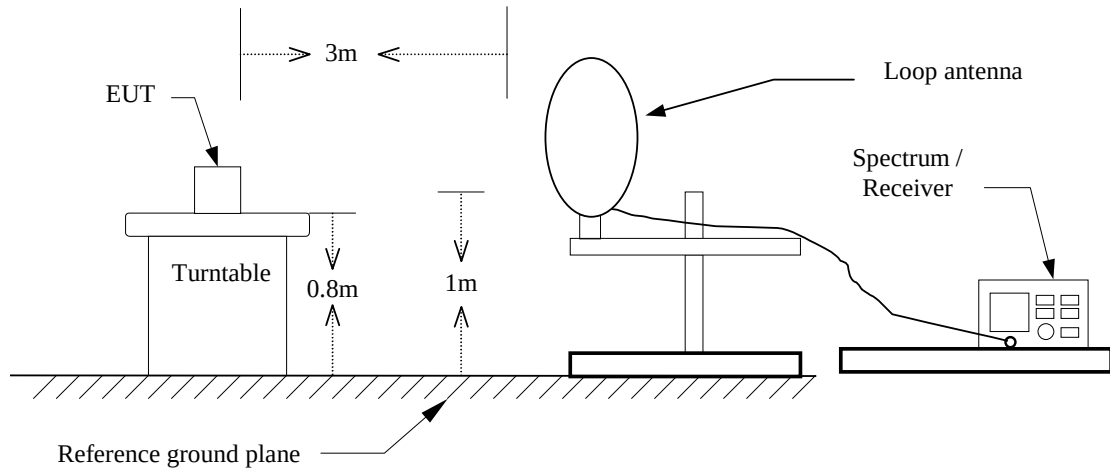
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/06/2015	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/06/2015	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/24/2015	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/24/2015	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	08/11/2015	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/12/2015	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	07/06/2015	(1)
Test Site	ATL	TE01	888001	08/28/2015	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

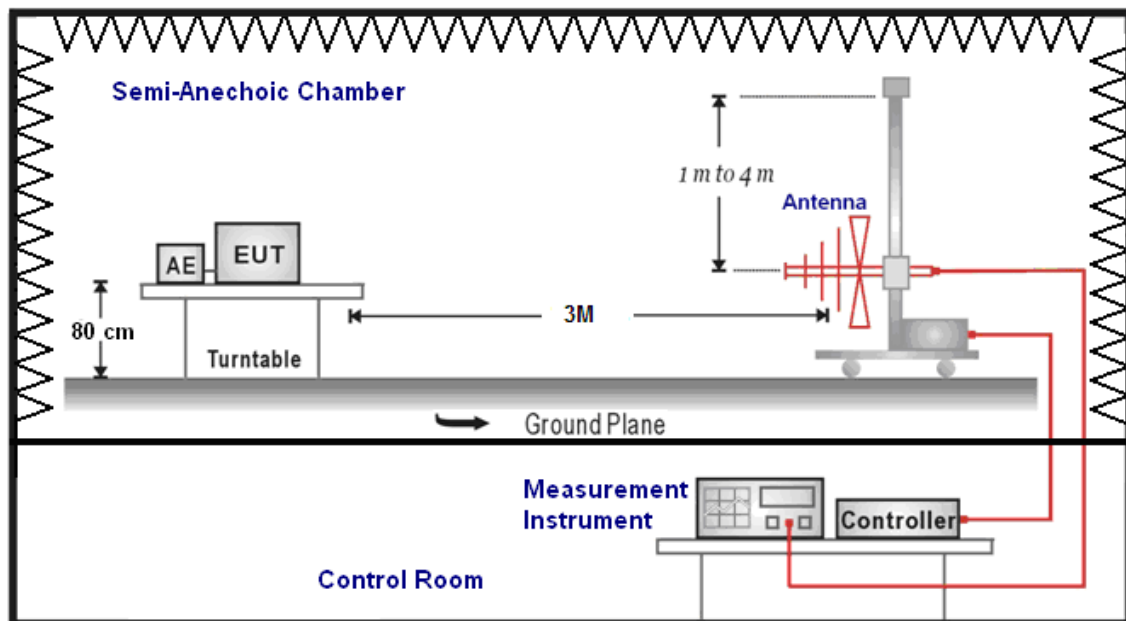
Note: N.C.R. = No Calibration Request.

5.3. Setup

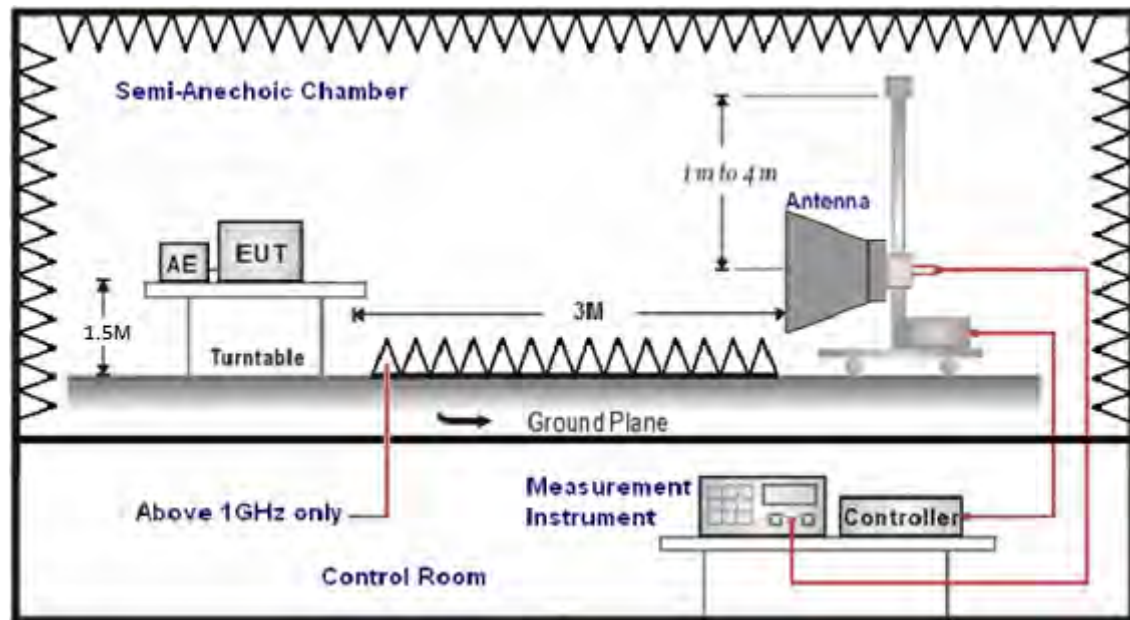
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



5.4. Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height (below 1GHz use 0.8m turntable / above 1GHz use 1.5m turntable), top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 40 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For restricted measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle > 0.98 / 1/T for average measurements when Duty cycle < 0.98.

For out of band measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Trilog-Broadband Antenna (mode SB AC VULB) at 3 Meter and the ETS-Lindgren Double-Ridged Waveguide Horn antenna (model 3117) Schwarzbeck Mess-Elektronik Broadband Horn Antenna (BBHA 9170) was used in frequencies 1 – 40 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade). For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts per meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).

The actual field intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

- (1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

- (2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

5.5. Test Result

Below 1GHz

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		P0510		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 1		Date:		09/11/2015	
				Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
234.5000	46.73	-15.08	31.65	46.00	-14.35	QP	H
396.0000	43.69	-11.30	32.39	46.00	-13.61	QP	H
482.5000	39.25	-9.97	29.28	46.00	-16.72	QP	H
600.0000	38.68	-7.84	30.84	46.00	-15.16	QP	H
685.5000	30.89	-6.89	24.00	46.00	-22.00	QP	H
838.0000	33.23	-4.50	28.73	46.00	-17.27	QP	H
139.5000	39.26	-14.03	25.23	43.50	-18.27	QP	V
235.0000	42.53	-15.04	27.49	46.00	-18.51	QP	V
396.0000	42.88	-11.30	31.58	46.00	-14.42	QP	V
533.5000	37.90	-9.29	28.61	46.00	-17.39	QP	V
609.5000	40.10	-7.77	32.33	46.00	-13.67	QP	V
779.5000	32.55	-5.28	27.27	46.00	-18.73	QP	V

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Above 1GHz

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5180MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2750.000	38.53	0.86	39.39	74.00	-34.61	peak	H
4731.000	33.88	7.17	41.05	74.00	-32.95	peak	H
7475.000	33.70	13.95	47.65	74.00	-26.35	peak	H
2834.000	37.81	1.14	38.95	74.00	-35.05	peak	V
4563.000	34.20	6.66	40.86	74.00	-33.14	peak	V
7447.000	33.57	13.88	47.45	74.00	-26.55	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5200MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	36.59	5.67	42.26	74.00	-31.74	peak	H
5382.000	32.59	11.10	43.69	74.00	-30.31	peak	H
7342.000	32.39	13.06	45.45	74.00	-28.55	peak	H
2848.000	38.87	5.71	44.58	74.00	-29.42	peak	V
4577.000	35.36	9.87	45.23	74.00	-28.77	peak	V
7461.000	34.59	13.10	47.69	74.00	-26.31	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5240MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2750.000	38.20	5.46	43.66	74.00	-30.34	peak	H
4780.000	34.21	10.19	44.40	74.00	-29.60	peak	H
7524.000	33.52	13.13	46.65	74.00	-27.35	peak	H
2785.000	36.13	5.54	41.67	74.00	-32.33	peak	V
4598.000	33.48	9.91	43.39	74.00	-30.61	peak	V
7587.000	33.13	13.20	46.33	74.00	-27.67	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5260MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2750.000	36.77	5.46	42.23	74.00	-31.77	peak	H
4857.000	32.90	10.30	43.20	74.00	-30.80	peak	H
7524.000	32.99	13.13	46.12	74.00	-27.88	peak	H
2813.000	37.11	5.62	42.73	74.00	-31.27	peak	V
4934.000	33.55	10.42	43.97	74.00	-30.03	peak	V
7349.000	32.28	13.07	45.35	74.00	-28.65	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5280MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2778.000	36.90	5.54	42.44	74.00	-31.56	peak	H
4745.000	33.47	10.13	43.60	74.00	-30.40	peak	H
7461.000	32.49	13.10	45.59	74.00	-28.41	peak	H
2778.000	38.03	5.54	43.57	74.00	-30.43	peak	V
4864.000	33.59	10.32	43.91	74.00	-30.09	peak	V
7398.000	32.58	13.08	45.66	74.00	-28.34	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5320MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	36.63	5.67	42.30	74.00	-31.70	peak	H
4640.000	33.84	9.97	43.81	74.00	-30.19	peak	H
7524.000	32.69	13.13	45.82	74.00	-28.18	peak	H
2862.000	36.89	5.75	42.64	74.00	-31.36	peak	V
4612.000	33.51	9.92	43.43	74.00	-30.57	peak	V
7384.000	33.47	13.07	46.54	74.00	-27.46	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5500MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2764.000	37.39	5.49	42.88	74.00	-31.12	peak	H
4766.000	33.40	10.17	43.57	74.00	-30.43	peak	H
7489.000	33.69	13.11	46.80	74.00	-27.20	peak	H
2799.000	38.23	5.59	43.82	74.00	-30.18	peak	V
4731.000	33.40	10.10	43.50	74.00	-30.50	peak	V
7468.000	34.12	13.11	47.23	74.00	-26.77	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5560MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2876.000	36.77	5.79	42.56	74.00	-31.44	peak	H
4857.000	33.35	10.30	43.65	74.00	-30.35	peak	H
7405.000	32.13	13.08	45.21	74.00	-28.79	peak	H
2750.000	38.31	5.46	43.77	74.00	-30.23	peak	V
4857.000	35.11	10.30	45.41	74.00	-28.59	peak	V
7531.000	33.85	13.14	46.99	74.00	-27.01	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5700MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.54	5.61	42.15	74.00	-31.85	peak	H
4787.000	33.15	10.20	43.35	74.00	-30.65	peak	H
7391.000	32.39	13.07	45.46	74.00	-28.54	peak	H
2855.000	37.48	5.73	43.21	74.00	-30.79	peak	V
4731.000	33.10	10.10	43.20	74.00	-30.80	peak	V
7531.000	32.88	13.14	46.02	74.00	-27.98	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5745MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2995.000	37.74	6.11	43.85	74.00	-30.15	peak	H
4647.000	34.55	9.98	44.53	74.00	-29.47	peak	H
6775.000	32.83	12.82	45.65	74.00	-28.35	peak	H
3156.000	37.27	6.62	43.89	74.00	-30.11	peak	V
4430.000	33.73	9.63	43.36	74.00	-30.64	peak	V
6754.000	34.50	12.80	47.30	74.00	-26.70	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5785MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3121.000	37.95	6.50	44.45	74.00	-29.55	peak	H
4570.000	34.18	9.87	44.05	74.00	-29.95	peak	H
6747.000	33.85	12.81	46.66	74.00	-27.34	peak	H
3163.000	37.72	6.64	44.36	74.00	-29.64	peak	V
4752.000	33.38	10.15	43.53	74.00	-30.47	peak	V
6726.000	33.95	12.79	46.74	74.00	-27.26	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5825MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3114.000	37.33	6.48	43.81	74.00	-30.19	peak	H
4381.000	34.17	9.53	43.70	74.00	-30.30	peak	H
6600.000	33.80	12.72	46.52	74.00	-27.48	peak	H
3086.000	37.58	6.39	43.97	74.00	-30.03	peak	V
4451.000	34.55	9.66	44.21	74.00	-29.79	peak	V
6698.000	34.03	12.77	46.80	74.00	-27.20	peak	V

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		P0510		Temp.(℃)/Hum.(%RH):		26(℃)/60%RH	
Test Mode:		Mode 3		Date:		09/04/2015	
Frequency:		5180MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2778.000	38.15	5.54	43.69	74.00	-30.31	peak	H
4598.000	33.36	9.91	43.27	74.00	-30.73	peak	H
7538.000	34.03	13.15	47.18	74.00	-26.82	peak	H
2869.000	37.89	5.77	43.66	74.00	-30.34	peak	V
4850.000	33.60	10.30	43.90	74.00	-30.10	peak	V
7517.000	33.75	13.13	46.88	74.00	-27.12	peak	V

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		P0510		Temp.(℃)/Hum.(%RH):		26(℃)/60%RH	
Test Mode:		Mode 3		Date:		09/04/2015	
Frequency:		5200MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2778.000	39.66	5.54	45.20	74.00	-28.80	peak	H
5025.000	35.46	10.55	46.01	74.00	-27.99	peak	H
7370.000	34.99	13.08	48.07	74.00	-25.93	peak	H
2813.000	36.67	5.62	42.29	74.00	-31.71	peak	V
4682.000	32.29	10.03	42.32	74.00	-31.68	peak	V
7342.000	31.71	13.06	44.77	74.00	-29.23	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5240MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2771.000	38.06	5.51	43.57	74.00	-30.43	peak	H
4808.000	34.47	10.23	44.70	74.00	-29.30	peak	H
7384.000	34.01	13.07	47.08	74.00	-26.92	peak	H
2792.000	37.74	5.57	43.31	74.00	-30.69	peak	V
4913.000	34.38	10.39	44.77	74.00	-29.23	peak	V
7503.000	34.14	13.11	47.25	74.00	-26.75	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5260MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2771.000	36.15	5.51	41.66	74.00	-32.34	peak	H
4822.000	33.23	10.25	43.48	74.00	-30.52	peak	H
7419.000	31.77	13.09	44.86	74.00	-29.14	peak	H
2792.000	36.65	5.57	42.22	74.00	-31.78	peak	V
4780.000	33.40	10.19	43.59	74.00	-30.41	peak	V
7559.000	32.76	13.17	45.93	74.00	-28.07	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5280MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2778.000	37.43	5.54	42.97	74.00	-31.03	peak	H
4724.000	32.62	10.10	42.72	74.00	-31.28	peak	H
7538.000	33.66	13.15	46.81	74.00	-27.19	peak	H
2813.000	38.81	5.62	44.43	74.00	-29.57	peak	V
4780.000	34.86	10.19	45.05	74.00	-28.95	peak	V
7496.000	34.27	13.11	47.38	74.00	-26.62	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5320MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2792.000	37.28	5.57	42.85	74.00	-31.15	peak	H
4941.000	34.47	10.44	44.91	74.00	-29.09	peak	H
7545.000	32.97	13.16	46.13	74.00	-27.87	peak	H
2806.000	37.26	5.61	42.87	74.00	-31.13	peak	V
4843.000	34.32	10.29	44.61	74.00	-29.39	peak	V
7405.000	32.82	13.08	45.90	74.00	-28.10	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5500MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	37.02	5.67	42.69	74.00	-31.31	peak	H
4843.000	33.25	10.29	43.54	74.00	-30.46	peak	H
7482.000	32.73	13.10	45.83	74.00	-28.17	peak	H
2799.000	36.96	5.59	42.55	74.00	-31.45	peak	V
4892.000	33.28	10.36	43.64	74.00	-30.36	peak	V
7377.000	32.17	13.07	45.24	74.00	-28.76	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5560MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2785.000	36.71	5.54	42.25	74.00	-31.75	peak	H
4941.000	33.19	10.44	43.63	74.00	-30.37	peak	H
7531.000	32.73	13.14	45.87	74.00	-28.13	peak	H
2876.000	36.85	5.79	42.64	74.00	-31.36	peak	V
4864.000	34.39	10.32	44.71	74.00	-29.29	peak	V
7496.000	32.32	13.11	45.43	74.00	-28.57	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5700MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2764.000	37.00	5.49	42.49	74.00	-31.51	peak	H
4766.000	33.45	10.17	43.62	74.00	-30.38	peak	H
7412.000	33.28	13.08	46.36	74.00	-27.64	peak	H
2827.000	37.28	5.66	42.94	74.00	-31.06	peak	V
4829.000	34.42	10.26	44.68	74.00	-29.32	peak	V
7433.000	34.32	13.08	47.40	74.00	-26.60	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5745MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3023.000	37.64	6.18	43.82	74.00	-30.18	peak	H
4668.000	33.15	10.01	43.16	74.00	-30.84	peak	H
6838.000	31.87	12.87	44.74	74.00	-29.26	peak	H
3128.000	37.10	6.53	43.63	74.00	-30.37	peak	V
4591.000	33.23	9.90	43.13	74.00	-30.87	peak	V
6677.000	34.57	12.75	47.32	74.00	-26.68	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5785MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3023.000	36.50	6.18	42.68	74.00	-31.32	peak	H
4437.000	33.01	9.63	42.64	74.00	-31.36	peak	H
6628.000	33.63	12.73	46.36	74.00	-27.64	peak	H
2946.000	36.67	5.98	42.65	74.00	-31.35	peak	V
4619.000	32.17	9.94	42.11	74.00	-31.89	peak	V
6705.000	32.82	12.78	45.60	74.00	-28.40	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5825MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3093.000	36.34	6.41	42.75	74.00	-31.25	peak	H
4507.000	32.56	9.77	42.33	74.00	-31.67	peak	H
6663.000	32.62	12.75	45.37	74.00	-28.63	peak	H
2995.000	36.60	6.11	42.71	74.00	-31.29	peak	V
4570.000	34.31	9.87	44.18	74.00	-29.82	peak	V
6831.000	34.36	12.85	47.21	74.00	-26.79	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Test Mode:	Mode 4			Date:	09/04/2015		
Frequency:	5190MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2771.000	37.76	5.51	43.27	74.00	-30.73	peak	H
4808.000	33.89	10.23	44.12	74.00	-29.88	peak	H
7419.000	33.77	13.09	46.86	74.00	-27.14	peak	H
2778.000	38.44	5.54	43.98	74.00	-30.02	peak	V
4885.000	34.56	10.34	44.90	74.00	-29.10	peak	V
7587.000	34.06	13.20	47.26	74.00	-26.74	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Test Mode:	Mode 4			Date:	09/04/2015		
Frequency:	5230MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2883.000	38.43	5.81	44.24	74.00	-29.76	peak	H
4766.000	34.35	10.17	44.52	74.00	-29.48	peak	H
7349.000	32.82	13.07	45.89	74.00	-28.11	peak	H
2750.000	38.21	5.46	43.67	74.00	-30.33	peak	V
4752.000	34.20	10.15	44.35	74.00	-29.65	peak	V
7419.000	33.40	13.09	46.49	74.00	-27.51	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	09/04/2015		
Frequency:	5270MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2764.000	36.63	5.49	42.12	74.00	-31.88	peak	H
4878.000	33.97	10.34	44.31	74.00	-29.69	peak	H
7440.000	31.97	13.09	45.06	74.00	-28.94	peak	H
2785.000	38.37	5.54	43.91	74.00	-30.09	peak	V
4794.000	34.93	10.21	45.14	74.00	-28.86	peak	V
7475.000	33.20	13.11	46.31	74.00	-27.69	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	09/04/2015		
Frequency:	5310MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	37.15	5.66	42.81	74.00	-31.19	peak	H
5018.000	33.84	10.54	44.38	74.00	-29.62	peak	H
7419.000	32.43	13.09	45.52	74.00	-28.48	peak	H
2785.000	37.90	5.54	43.44	74.00	-30.56	peak	V
4822.000	34.10	10.25	44.35	74.00	-29.65	peak	V
7377.000	33.93	13.07	47.00	74.00	-27.00	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Test Mode:	Mode 4			Date:	09/04/2015		
Frequency:	5510MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.92	5.61	42.53	74.00	-31.47	peak	H
4913.000	33.30	10.39	43.69	74.00	-30.31	peak	H
7503.000	32.24	13.11	45.35	74.00	-28.65	peak	H
2792.000	37.03	5.57	42.60	74.00	-31.40	peak	V
4878.000	32.58	10.34	42.92	74.00	-31.08	peak	V
7377.000	32.75	13.07	45.82	74.00	-28.18	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Test Mode:	Mode 4			Date:	09/04/2015		
Frequency:	5550MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	37.19	5.61	42.80	74.00	-31.20	peak	H
4787.000	33.38	10.20	43.58	74.00	-30.42	peak	H
7377.000	33.14	13.07	46.21	74.00	-27.79	peak	H
2764.000	37.54	5.49	43.03	74.00	-30.97	peak	V
4885.000	33.84	10.34	44.18	74.00	-29.82	peak	V
7454.000	33.57	13.10	46.67	74.00	-27.33	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	09/04/2015		
Frequency:	5670MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2785.000	37.38	5.54	42.92	74.00	-31.08	peak	H
4934.000	33.54	10.42	43.96	74.00	-30.04	peak	H
7440.000	32.65	13.09	45.74	74.00	-28.26	peak	H
2785.000	37.36	5.54	42.90	74.00	-31.10	peak	V
4808.000	33.75	10.23	43.98	74.00	-30.02	peak	V
7503.000	33.26	13.11	46.37	74.00	-27.63	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	09/04/2015		
Frequency:	5755MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3107.000	36.23	6.46	42.69	74.00	-31.31	peak	H
4493.000	32.53	9.74	42.27	74.00	-31.73	peak	H
6670.000	32.85	12.76	45.61	74.00	-28.39	peak	H
3037.000	37.02	6.23	43.25	74.00	-30.75	peak	V
4675.000	32.38	10.02	42.40	74.00	-31.60	peak	V
6726.000	33.19	12.79	45.98	74.00	-28.02	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Test Mode:	Mode 4			Date:	09/04/2015		
Frequency:	5795MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3114.000	35.25	6.48	41.73	74.00	-32.27	peak	H
4493.000	30.10	9.74	39.84	74.00	-34.16	peak	H
6565.000	31.05	12.69	43.74	74.00	-30.26	peak	H
3030.000	35.72	6.21	41.93	74.00	-32.07	peak	V
4598.000	33.03	9.91	42.94	74.00	-31.06	peak	V
6649.000	32.10	12.74	44.84	74.00	-29.16	peak	V

Band Edge

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		P0510			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 2			Date:		09/04/2015	
Frequency:		5180 MHz			Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
4918.600	49.75	7.77	57.52	74.00	-16.48	peak	H	
4918.600	36.21	7.77	43.98	54.00	-10.02	AVG	H	
5150.000	46.05	8.21	54.26	74.00	-19.74	peak	H	
5150.000	35.84	8.21	44.05	54.00	-9.95	AVG	H	
5072.600	48.17	8.11	56.28	74.00	-17.72	peak	V	
5072.600	36.01	8.11	44.12	54.00	-9.88	AVG	V	
5150.000	45.18	8.21	53.39	74.00	-20.61	peak	V	
5150.000	35.44	8.21	43.65	54.00	-10.35	AVG	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		P0510			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 2			Date:		09/04/2015	
Frequency:		5320 MHz			Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5350.000	47.18	8.48	55.66	74.00	-18.34	peak	H	
5350.000	35.83	8.48	44.31	54.00	-9.69	AVG	H	
5418.700	48.66	8.57	57.23	74.00	-16.77	peak	H	
5418.700	35.76	8.57	44.33	54.00	-9.67	AVG	H	
5350.000	45.88	8.48	54.36	74.00	-19.64	peak	V	
5350.000	35.75	8.48	44.23	54.00	-9.77	AVG	H	
5383.980	48.07	8.52	56.59	74.00	-17.41	peak	V	
5383.980	35.73	8.52	44.25	54.00	-9.75	AVG	V	

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		P0510		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 2		Date:		09/04/2015	
Frequency:		5500 MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5410.600	48.73	8.56	57.29	74.00	-16.71	peak	H
5410.600	35.86	8.56	44.42	54.00	-9.58	AVG	H
5460.000	45.91	8.62	54.53	74.00	-19.47	peak	H
5460.000	35.73	8.62	44.35	54.00	-9.65	AVG	H
5415.850	48.58	8.56	57.14	74.00	-16.86	peak	V
5415.850	36.46	8.56	45.02	54.00	-8.98	AVG	H
5460.000	46.90	8.62	55.52	74.00	-18.48	peak	V
5460.000	35.66	8.62	44.28	54.00	-9.72	AVG	V

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		P0510		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 2		Date:		09/04/2015	
Frequency:		5500 MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5470.000	41.61	8.63	50.24	68.20	-17.96	peak	H
5470.000	41.82	8.63	50.45	68.20	-17.75	peak	V

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		P0510		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 2		Date:		09/04/2015	
Frequency:		5700 MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5725.000	42.97	9.21	52.18	68.20	-16.02	peak	H
5725.000	44.35	9.21	53.56	68.20	-14.64	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5745 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5715.000	43.52	9.18	52.70	68.20	-15.50	peak	H
5725.000	43.40	9.21	52.61	78.20	-25.59	peak	H
5715.000	42.89	9.18	52.07	68.20	-16.13	peak	V
5725.000	43.04	9.21	52.25	78.20	-25.95	peak	H

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	09/04/2015		
Frequency:	5825 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5850.000	42.53	9.51	52.04	78.20	-26.16	peak	H
5860.000	43.13	9.53	52.66	68.20	-15.54	peak	H
5850.000	42.87	9.51	52.38	78.20	-25.82	peak	V
5860.000	43.22	9.53	52.75	68.20	-15.45	peak	H

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(℃)/Hum.(%RH):	26(℃)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5180 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4790.500	49.54	7.37	56.91	74.00	-17.09	peak	H
4790.500	36.24	7.37	43.61	54.00	-10.39	AVG	H
5150.000	45.71	8.21	53.92	74.00	-20.08	peak	H
5150.000	35.80	8.21	44.01	54.00	-9.99	AVG	H
4708.600	49.90	7.11	57.01	74.00	-16.99	peak	V
4708.600	36.19	7.11	43.30	54.00	-10.70	AVG	V
5150.000	45.74	8.21	53.95	74.00	-20.05	peak	V
5150.000	35.80	8.21	44.01	54.00	-9.99	AVG	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	09/04/2015		
Frequency:	5320 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	45.56	8.48	54.04	74.00	-19.96	peak	H
5350.000	35.73	8.48	44.21	54.00	-9.79	AVG	H
5387.060	47.73	8.52	56.25	74.00	-17.75	peak	H
5387.060	35.66	8.52	44.18	54.00	-9.82	AVG	H
5350.000	45.73	8.48	54.21	74.00	-19.79	peak	V
5350.000	35.72	8.48	44.20	54.00	-9.80	AVG	V
5356.120	48.72	8.48	57.20	74.00	-16.80	peak	V
5356.120	35.78	8.48	44.26	54.00	-9.74	AVG	V

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		P0510			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 3			Date:		09/04/2015	
Frequency:		5500 MHz			Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5443.300	48.46	8.60	57.06	74.00	-16.94	peak	H	
5443.300	35.75	8.60	44.35	54.00	-9.65	AVG	H	
5460.000	46.34	8.62	54.96	74.00	-19.04	peak	H	
5460.000	35.74	8.62	44.36	54.00	-9.64	AVG	H	
5401.600	48.78	8.54	57.32	74.00	-16.68	peak	V	
5401.600	35.74	8.54	44.28	54.00	-9.72	AVG	V	
5460.000	46.52	8.62	55.14	74.00	-18.86	peak	V	
5460.000	35.70	8.62	44.32	54.00	-9.68	AVG	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		P0510			Temp.(℃)/Hum.(%RH):		26(℃)/60%RH	
Test Mode:		Mode 4			Date:		09/04/2015	
Frequency:		5500 MHz			Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5470.000	41.76	8.63	50.39	68.20	-17.81	peak	H	
5470.000	43.77	8.63	52.40	68.20	-15.80	peak	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		P0510			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4			Date:		09/04/2015	
Frequency:		5700 MHz			Test By:		Eric Ou Yang	
Frequency	Reading	Correct Factor	Result	Limit	Margin	Remark	Ant.Polar.	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		H / V	
5725.000	44.32	9.21	53.53	68.20	-14.67	peak	H	
5725.000	43.34	9.21	52.55	68.20	-15.65	peak	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		P0510			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4			Date:		09/04/2015	
Frequency:		5745 MHz			Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5715.000	43.48	9.18	52.66	68.20	-15.54	peak	H	
5725.000	43.64	9.21	52.85	78.20	-25.35	peak	H	
5715.000	44.81	9.18	53.99	68.20	-14.21	peak	V	
5725.000	44.16	9.21	53.37	78.20	-24.83	peak	V	

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	09/04/2015		
Frequency:	5825 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5850.000	43.86	9.51	53.37	78.20	-24.83	peak	H
5860.000	42.54	9.53	52.07	68.20	-16.13	peak	H
5850.000	42.76	9.51	52.27	78.20	-25.93	peak	V
5860.000	44.31	9.53	53.84	68.20	-14.36	peak	V

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		P0510			Temp.(℃)/Hum.(%RH):		26(℃)/60%RH	
Test Mode:		Mode 4			Date:		09/04/2015	
Frequency:		5190 MHz			Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5095.700	48.59	8.15	56.74	74.00	-17.26	peak	H	
5095.700	36.01	8.15	44.16	54.00	-9.84	AVG	H	
5150.000	45.66	8.21	53.87	74.00	-20.13	peak	H	
5150.000	35.41	8.21	43.62	54.00	-10.38	AVG	H	
4800.300	48.52	7.40	55.92	74.00	-18.08	peak	V	
4800.300	36.23	7.40	43.63	54.00	-10.37	AVG	V	
5150.000	45.39	8.21	53.60	74.00	-20.40	peak	V	
5150.000	35.80	8.21	44.01	54.00	-9.99	AVG	V	

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		P0510		Temp.(℃)/Hum.(%RH):		26(℃)/60%RH	
Test Mode:		Mode 4		Date:		09/04/2015	
Frequency:		5310 MHz		Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	45.83	8.48	54.31	74.00	-19.69	peak	H
5350.000	35.70	8.48	44.18	54.00	-9.82	AVG	H
5407.360	48.17	8.55	56.72	74.00	-17.28	peak	H
5407.360	35.77	8.55	44.32	54.00	-9.68	AVG	H
5350.000	46.15	8.48	54.63	74.00	-19.37	peak	V
5350.000	35.53	8.48	44.01	54.00	-9.99	AVG	V
5353.180	48.34	8.48	56.82	74.00	-17.18	peak	V
5353.180	35.75	8.48	44.23	54.00	-9.77	AVG	V

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		P0510			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4			Date:		09/04/2015	
Frequency:		5510 MHz			Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5398.750	48.37	8.54	56.91	74.00	-17.09	peak	H	
5398.750	35.71	8.54	44.25	54.00	-9.75	AVG	H	
5460.000	46.03	8.62	54.65	74.00	-19.35	peak	H	
5460.000	35.77	8.62	44.39	54.00	-9.61	AVG	H	
5391.100	48.69	8.52	57.21	74.00	-16.79	peak	V	
5391.100	35.73	8.52	44.25	54.00	-9.75	AVG	V	
5460.000	46.44	8.62	55.06	74.00	-18.94	peak	V	
5460.000	35.71	8.62	44.33	54.00	-9.67	AVG	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		P0510			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4			Date:		09/04/2015	
Frequency:		5510 MHz			Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5470.000	41.57	8.63	50.20	68.20	-18.00	peak	H	
5470.000	42.07	8.63	50.70	68.20	-17.50	peak	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		P0510			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4			Date:		09/04/2015	
Frequency:		5670 MHz			Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5725.000	43.09	9.21	52.30	68.20	-15.90	peak	H	
5725.000	42.94	9.21	52.15	68.20	-16.05	peak	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		P0510			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4			Date:		09/04/2015	
Frequency:		5755 MHz			Test By:		Eric Ou Yang	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V	
5715.000	44.92	9.18	54.10	68.20	-14.10	peak	H	
5725.000	42.21	9.21	51.42	78.20	-26.78	peak	H	
5715.000	42.69	9.18	51.87	68.20	-16.33	peak	V	
5725.000	43.38	9.21	52.59	78.20	-25.61	peak	V	

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	P0510			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	09/04/2015		
Frequency:	5795 MHz			Test By:	Eric Ou Yang		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5850.000	43.05	9.51	52.56	78.20	-25.64	peak	H
5860.000	43.45	9.53	52.98	68.20	-15.22	peak	H
5850.000	43.12	9.51	52.63	78.20	-25.57	peak	V
5860.000	43.70	9.53	53.23	68.20	-14.97	peak	V

6 Maximum Conducted Output Power Measurement

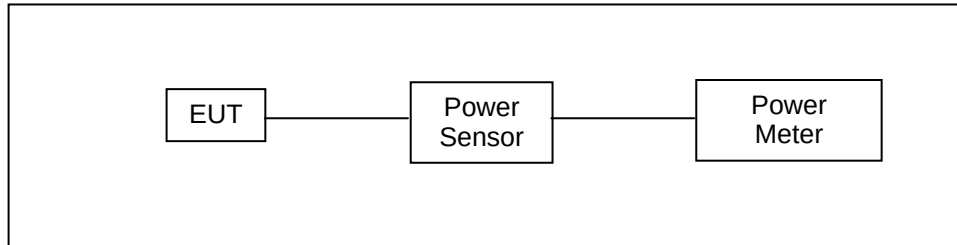
6.1. Limit

Conducted Output Power

Frequency Range (MHz)	FCC Limit
5.150 ~ 5.250 GHz	The lesser of 250mW (24dBm)
5.250 ~ 5.350 GHz	The lesser of 250mW (24dBm) or 11dBm + 10log (B)
5.470 ~ 5.725 GHz	The lesser of 250mW (24dBm) or 11dBm + 10log (B)
5.725 ~ 5.850 GHz	The lesser of 1000mW (30dBm)

Note: Where B is the 26dB emission bandwidth in MHz.

6.2. Test Setup



6.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Power Sensor	Anritsu	MA2411B	1126022	08/24/2015	(1)
Power Meter	Anritsu	ML2495A	1135009	08/24/2015	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

6.4. Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

6.5. Test Result

Model Number		P0510				
Test Item		Maximum Conducted Output Power				
Test Mode		Mode 2: IEEE 802.11a Link Mode				
Date of Test		08/28/2015		Test Site		TE02
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		Max. Output Power		Max. Output Power		
		(dBm)	(W)	(dBm)	(W)	
5180.0	6M	2.67	0.0018	1.47	0.0014	< 24
5200.0		3.46	0.0022	1.01	0.0013	
5220.0		4.26	0.0027	1.04	0.0013	
5240.0		5.00	0.0032	1.12	0.0013	
5260.0		5.82	0.0038	1.26	0.0013	< 24
5280.0		6.40	0.0044	0.06	0.0010	
5300.0		7.04	0.0051	1.73	0.0015	
5320.0		7.10	0.0051	1.16	0.0013	
5500.0		8.67	0.0074	2.99	0.0020	< 24
5520.0		9.22	0.0084	2.33	0.0017	
5540.0		9.46	0.0088	2.89	0.0019	
5560.0		9.61	0.0091	3.40	0.0022	
5580.0		9.71	0.0094	3.51	0.0022	
5600.0		9.58	0.0091	3.30	0.0021	
5620.0		9.47	0.0089	4.01	0.0025	
5640.0		9.11	0.0081	3.74	0.0024	
5660.0		8.86	0.0077	3.32	0.0021	
5680.0		8.59	0.0072	2.93	0.0020	
5700.0		7.96	0.0063	3.16	0.0021	
5745.0		6.31	0.0043	3.09	0.0020	< 30
5765.0		5.46	0.0035	2.44	0.0018	
5785.0		4.59	0.0029	0.72	0.0012	
5805.0		3.64	0.0023	-0.30	0.0009	
5825.0		2.64	0.0018	3.48	0.0022	

Model Number		P0510				
Test Item		Maximum Conducted Output Power				
Test Mode		Mode 2: IEEE 802.11a Link Mode				
Date of Test		08/28/2015			Test Site	TE02
Frequency (MHz)	Data Rate	ANT-0		ANT-1		FCC Limit (dBm)
		Max. Output Power		Max. Output Power		
		(dBm)	(W)	(dBm)	(W)	
5180.0	54M	2.53	0.0018	1.36	0.0014	< 24
5200.0		3.34	0.0022	0.91	0.0012	
5220.0		4.16	0.0026	0.97	0.0013	
5240.0		4.87	0.0031	1.02	0.0013	
5260.0		5.72	0.0037	1.21	0.0013	< 24
5280.0		6.29	0.0043	0.00	0.0010	
5300.0		6.94	0.0049	1.62	0.0015	
5320.0		6.98	0.0050	1.02	0.0013	
5500.0		8.53	0.0071	2.90	0.0019	< 24
5520.0		9.06	0.0081	2.25	0.0017	
5540.0		9.32	0.0086	2.82	0.0019	
5560.0		9.46	0.0088	3.34	0.0022	
5580.0		9.61	0.0091	3.40	0.0022	
5600.0		9.49	0.0089	3.19	0.0021	
5620.0		9.34	0.0086	3.94	0.0025	
5640.0		8.99	0.0079	3.68	0.0023	
5660.0		8.70	0.0074	3.22	0.0021	
5680.0		8.48	0.0070	2.83	0.0019	
5700.0		7.88	0.0061	3.09	0.0020	
5745.0		6.21	0.0042	3.01	0.0020	< 30
5765.0		5.31	0.0034	2.34	0.0017	
5785.0		4.42	0.0028	0.66	0.0012	
5805.0		3.56	0.0023	-0.39	0.0009	
5825.0		2.58	0.0018	3.38	0.0022	

Model Number		P0510							
Test Item		Maximum Conducted Output Power							
Test Mode		Mode 3: IEEE 802.11n 20MHz Link Mode							
Date of Test		08/28/2015				Test Site		TE02	
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)	
		Max. Output Power		Max. Output Power		Max. Output Power			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5180.0	13M	3.13	0.0021	-0.18	0.0010	4.79	0.0030	< 24	
5200.0		3.22	0.0021	-0.09	0.0010	4.88	0.0031		
5220.0		3.88	0.0024	0.08	0.0010	5.39	0.0035		
5240.0		4.30	0.0027	0.39	0.0011	5.78	0.0038		
5260.0		4.77	0.0030	-0.36	0.0009	5.93	0.0039	< 24	
5280.0		5.27	0.0034	-0.54	0.0009	6.28	0.0042		
5300.0		5.69	0.0037	-0.63	0.0009	6.60	0.0046		
5320.0		6.12	0.0041	-0.82	0.0008	6.92	0.0049		
5500.0		7.52	0.0056	1.36	0.0014	8.46	0.0070	< 24	
5520.0		7.74	0.0059	1.40	0.0014	8.65	0.0073		
5540.0		8.08	0.0064	1.54	0.0014	8.95	0.0079		
5560.0		8.01	0.0063	1.66	0.0015	8.92	0.0078		
5580.0		8.03	0.0064	1.81	0.0015	8.96	0.0079		
5600.0		7.81	0.0060	1.43	0.0014	8.71	0.0074		
5620.0		7.61	0.0058	1.37	0.0014	8.54	0.0071		
5640.0		7.17	0.0052	1.21	0.0013	8.15	0.0065		
5660.0		7.08	0.0051	1.19	0.0013	8.08	0.0064		
5680.0		6.43	0.0044	1.09	0.0013	7.54	0.0057		
5700.0		5.70	0.0037	1.00	0.0013	6.97	0.0050		
5745.0		3.83	0.0024	1.99	0.0016	6.02	0.0040		< 30
5765.0		2.98	0.0020	1.86	0.0015	5.47	0.0035		
5785.0		2.11	0.0016	1.67	0.0015	4.91	0.0031		
5805.0		1.34	0.0014	1.54	0.0014	4.45	0.0028		
5825.0		0.76	0.0012	1.37	0.0014	4.09	0.0026		

Model Number		P0510							
Test Item		Maximum Conducted Output Power							
Test Mode		Mode 3: IEEE 802.11n 20MHz Link Mode							
Date of Test		08/28/2015				Test Site		TE02	
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)	
		Max. Output Power		Max. Output Power		Max. Output Power			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5180.0	130M	2.84	0.0019	-0.36	0.0009	4.54	0.0028	< 24	
5200.0		2.99	0.0020	-0.29	0.0009	4.66	0.0029		
5220.0		3.61	0.0023	-0.13	0.0010	5.14	0.0033		
5240.0		4.08	0.0026	0.22	0.0011	5.58	0.0036		
5260.0		4.49	0.0028	-0.53	0.0009	5.68	0.0037	< 24	
5280.0		5.05	0.0032	-0.75	0.0008	6.06	0.0040		
5300.0		5.42	0.0035	-0.81	0.0008	6.35	0.0043		
5320.0		5.84	0.0038	-0.99	0.0008	6.66	0.0046		
5500.0		7.24	0.0053	1.16	0.0013	8.20	0.0066	< 24	
5520.0		7.48	0.0056	1.22	0.0013	8.40	0.0069		
5540.0		7.81	0.0060	1.36	0.0014	8.70	0.0074		
5560.0		7.75	0.0060	1.44	0.0014	8.66	0.0073		
5580.0		7.79	0.0060	1.61	0.0014	8.73	0.0075		
5600.0		7.54	0.0057	1.26	0.0013	8.46	0.0070		
5620.0		7.38	0.0055	1.17	0.0013	8.31	0.0068		
5640.0		6.91	0.0049	1.06	0.0013	7.91	0.0062		
5660.0		6.85	0.0048	0.98	0.0013	7.85	0.0061		
5680.0		6.16	0.0041	0.92	0.0012	7.30	0.0054		
5700.0		5.43	0.0035	0.88	0.0012	6.74	0.0047		
5745.0		3.56	0.0023	1.82	0.0015	5.79	0.0038		< 30
5765.0		2.71	0.0019	1.69	0.0015	5.24	0.0033		
5785.0		1.88	0.0015	1.49	0.0014	4.70	0.0030		
5805.0		1.11	0.0013	1.36	0.0014	4.25	0.0027		
5825.0		0.48	0.0011	1.15	0.0013	3.84	0.0024		

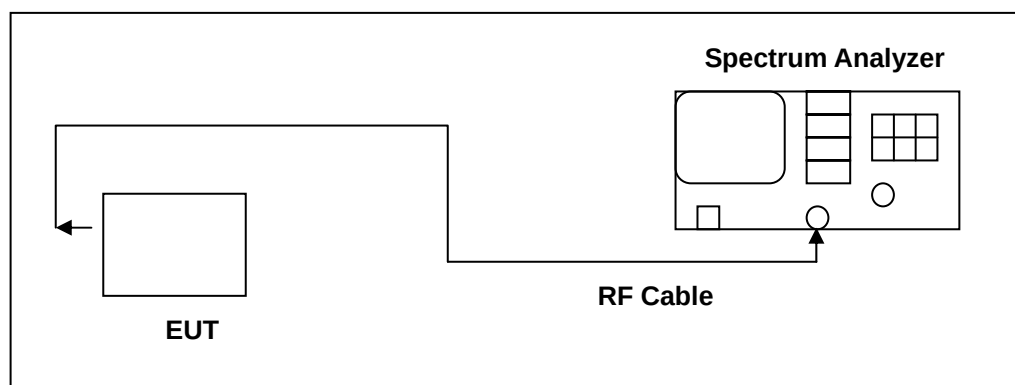
Model Number		P0510							
Test Item		Maximum Conducted Output Power							
Test Mode		Mode 4: IEEE 802.11n 40MHz Link Mode							
Date of Test		08/28/2015				Test Site		TE02	
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)	
		Max. Output Power		Max. Output Power		Max. Output Power			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5190.0	27M	2.79	0.0019	-1.23	0.0008	4.24	0.0027	< 24	
5230.0		3.83	0.0024	-1.35	0.0007	4.98	0.0031		
5270.0		4.92	0.0031	-1.37	0.0007	5.84	0.0038	< 24	
5310.0		5.74	0.0037	-1.42	0.0007	6.50	0.0045		
5510.0		7.44	0.0055	0.85	0.0012	8.30	0.0068	< 24	
5550.0		7.72	0.0059	1.15	0.0013	8.58	0.0072		
5590.0		7.87	0.0061	0.98	0.0013	8.68	0.0074		
5630.0		7.22	0.0053	0.92	0.0012	8.13	0.0065		
5670.0		6.46	0.0044	0.85	0.0012	7.51	0.0056		
5755.0		3.25	0.0021	1.03	0.0013	5.29	0.0034	< 30	
5795.0		1.63	0.0015	1.09	0.0013	4.38	0.0027		
5190.0	270M	2.56	0.0018	-1.38	0.0007	4.03	0.0025	< 24	
5230.0		3.61	0.0023	-1.52	0.0007	4.77	0.0030		
5270.0		4.73	0.0030	-1.56	0.0007	5.65	0.0037	< 24	
5310.0		5.51	0.0036	-1.58	0.0007	6.29	0.0043		
5510.0		7.21	0.0053	0.65	0.0012	8.08	0.0064	< 24	
5550.0		7.49	0.0056	0.98	0.0013	8.37	0.0069		
5590.0		7.68	0.0059	0.77	0.0012	8.49	0.0071		
5630.0		6.99	0.0050	0.73	0.0012	7.91	0.0062		
5670.0		6.22	0.0042	0.69	0.0012	7.29	0.0054		
5755.0		3.06	0.0020	0.88	0.0012	5.12	0.0032	< 30	
5795.0		1.44	0.0014	0.94	0.0012	4.21	0.0026		

7 26dB RF Bandwidth & 99 % Occupied Bandwidth Measurement

7.1. Limit

N/A

7.2. Test Setup



7.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/16/2014	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

7.4. Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

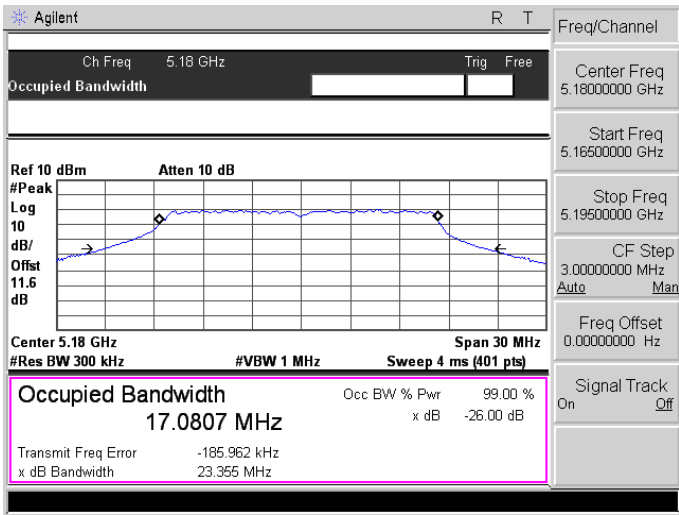
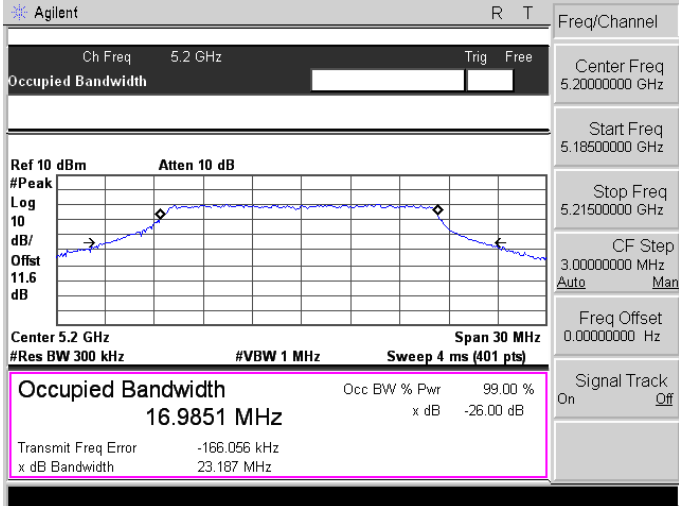
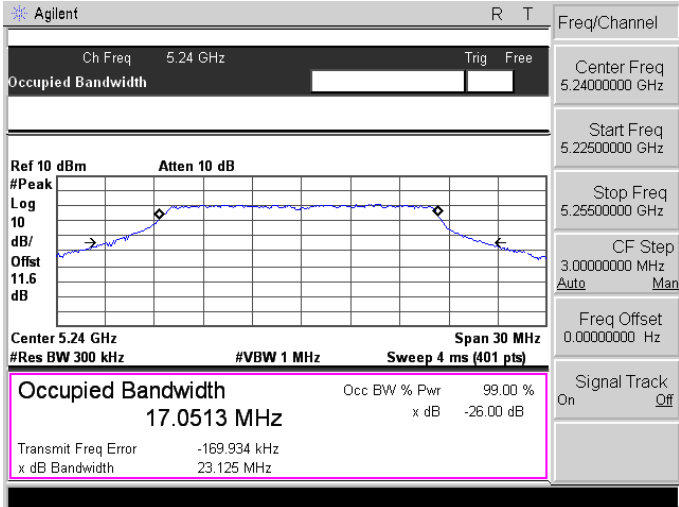
7.5. Test Result

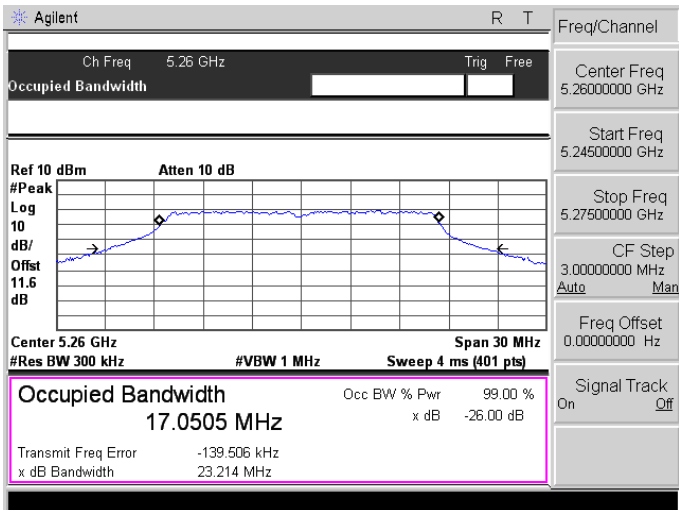
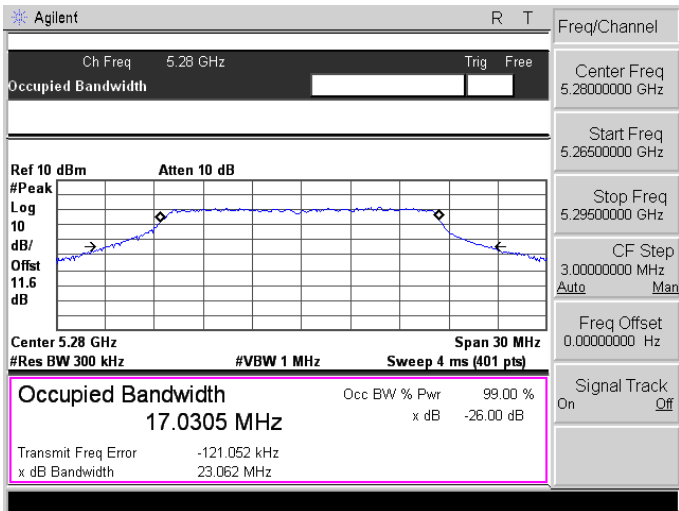
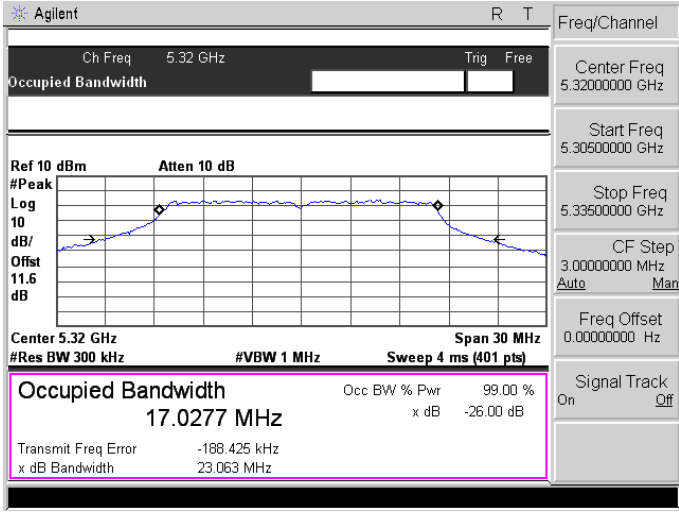
Model Number	P0510		
Test Item	26dB RF Bandwidth Measurement		
Test Mode	Mode 2: IEEE 802.11a Link Mode		
Date of Test	09/02/2015	Test Site	TE02
Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	
	ANT-0		
5180	23.355	17.0807	
5200	23.187	16.9851	
5240	23.125	17.0513	
5260	23.214	17.0505	
5280	23.062	17.0305	
5320	23.063	17.0277	
5500	22.980	17.0283	
5560	23.507	17.0427	
5700	23.799	17.0259	

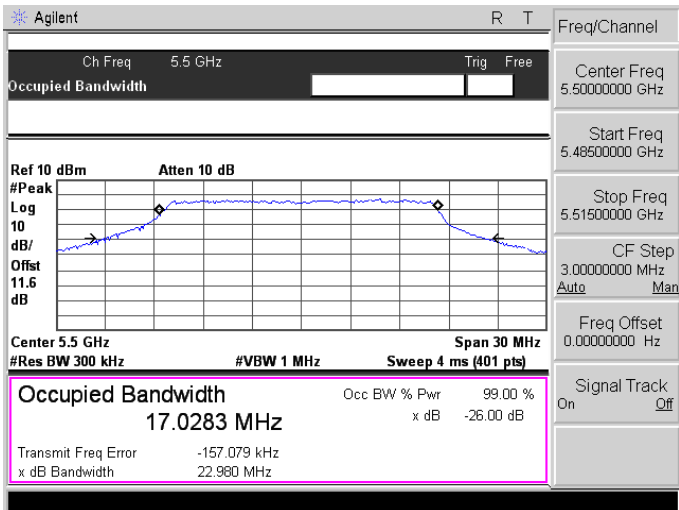
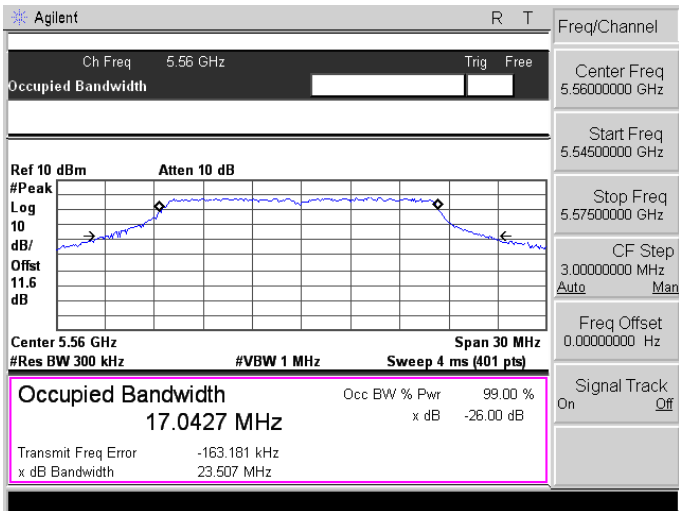
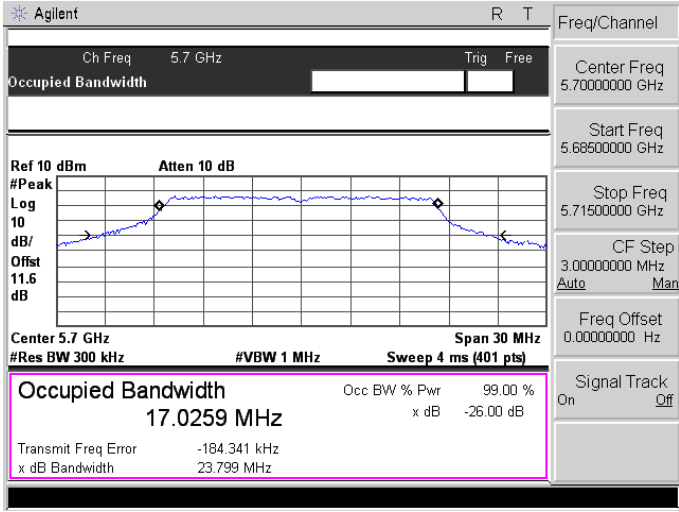
Model Number	P0510			
Test Item	26dB RF Bandwidth Measurement			
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode			
Date of Test	09/02/2015	Test Site	TE02	
Frequency (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
	ANT-0	ANT-1	ANT-0	ANT-1
5180	24.019	23.098	18.0982	17.9094
5200	23.740	22.869	18.0587	17.8973
5240	23.559	23.099	18.0713	17.9095
5260	23.532	23.147	18.0855	17.9031
5280	23.735	23.049	18.0900	17.9147
5320	24.047	23.128	18.0335	17.8875
5500	23.895	23.103	18.0942	17.9012
5560	23.425	23.208	18.0713	17.8737
5700	23.539	23.164	18.0422	17.9110

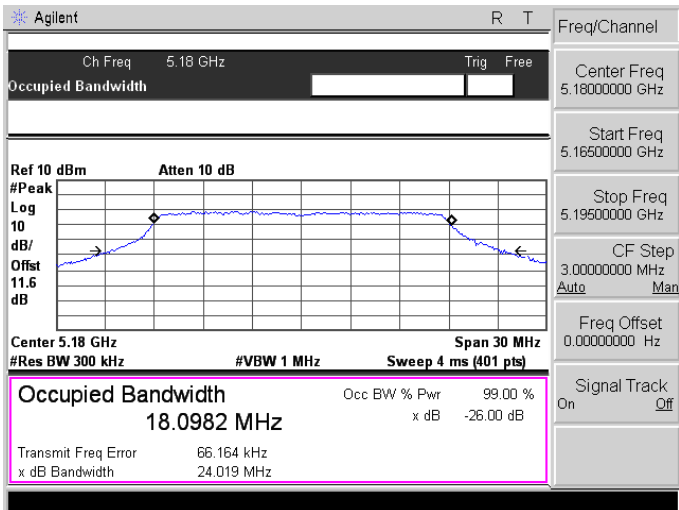
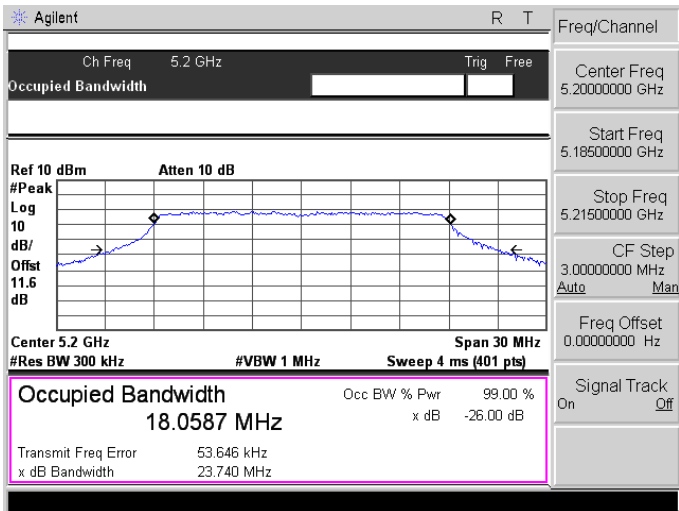
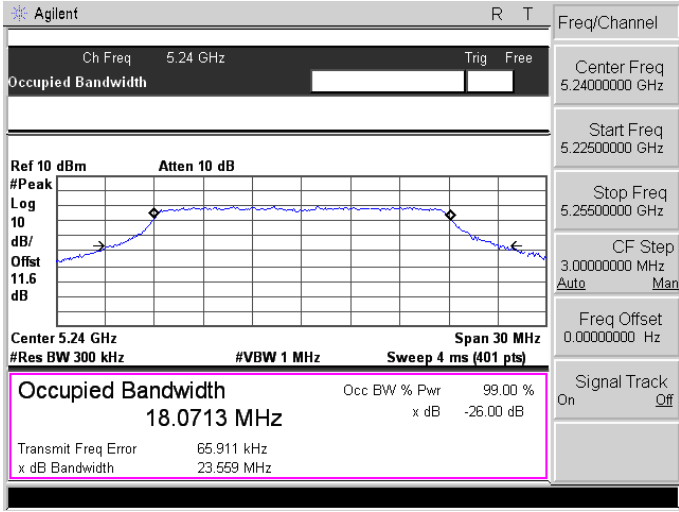
Model Number	P0510			
Test Item	26dB RF Bandwidth Measurement			
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode			
Date of Test	09/02/2015		Test Site	TE02
Frequency (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
	ANT-0	ANT-1	ANT-0	ANT-1
5190	42.645	42.054	36.5602	36.3701
5230	42.518	41.979	36.6331	36.4006
5270	42.657	42.122	36.6335	36.4229
5310	42.475	41.827	36.6024	36.3443
5510	42.723	41.757	36.6898	36.3723
5550	42.758	41.817	36.6355	36.3733
5670	42.502	42.096	36.6373	36.3981

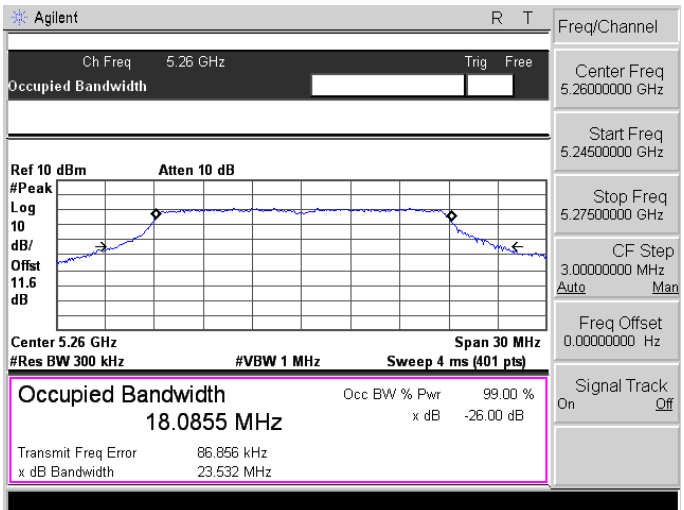
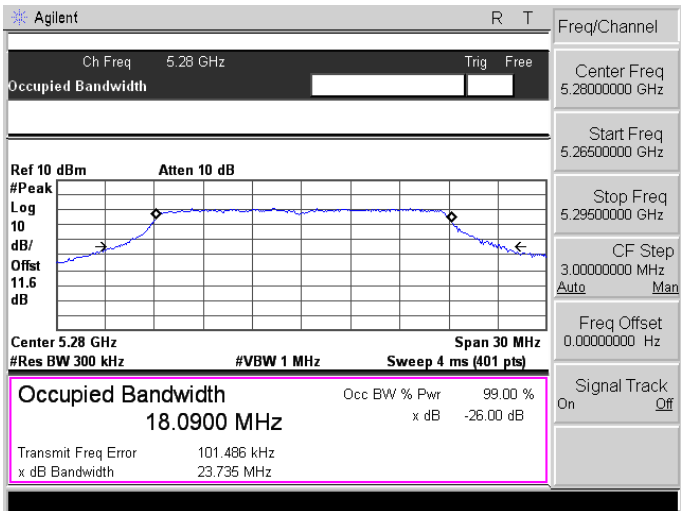
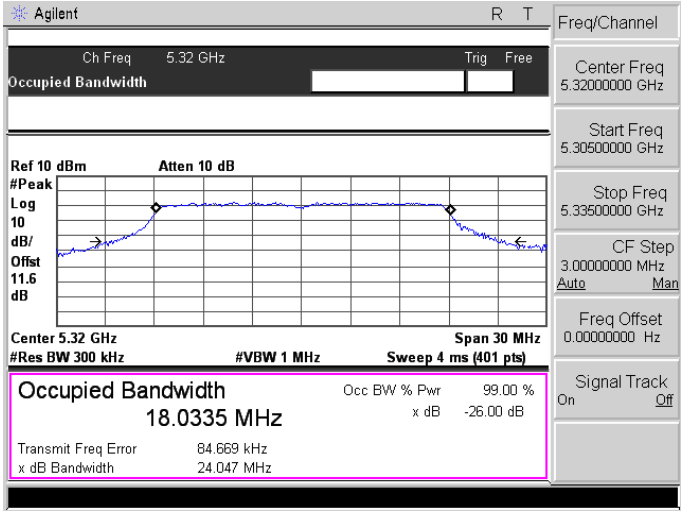
7.6. Test Graphs

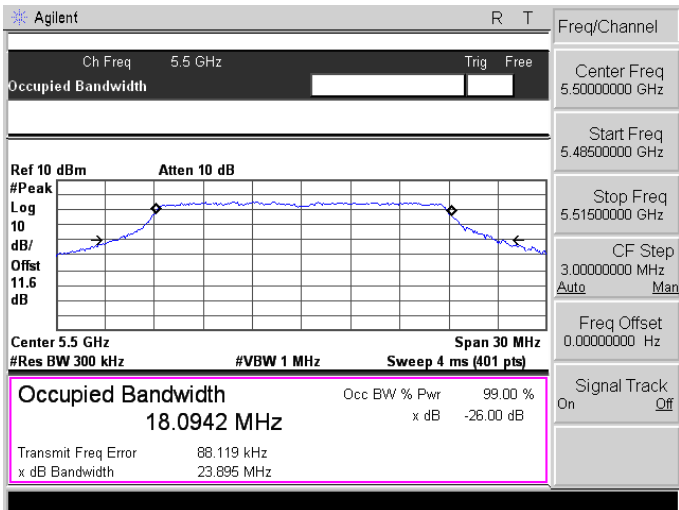
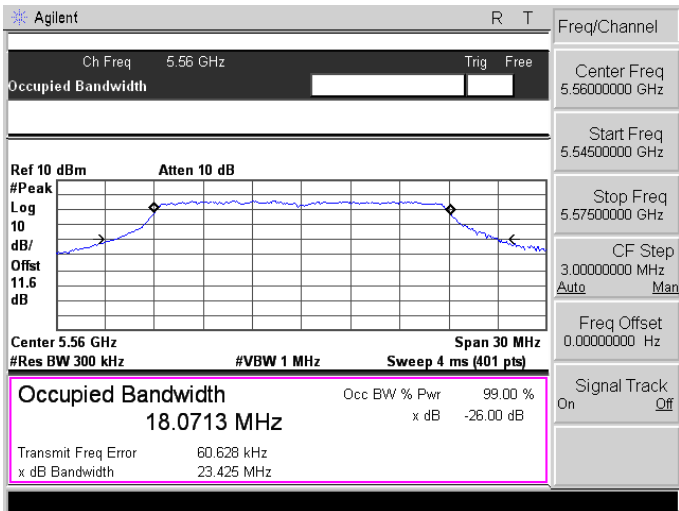
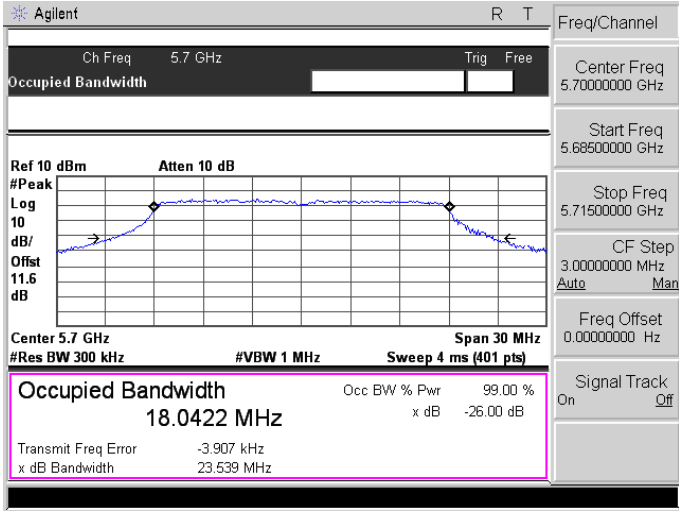
5180	Mode 2: IEEE 802.11a Link Mode_ANT-0  Agilent R T Ch Freq 5.18 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.18 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.0807 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -185.962 kHz x dB Bandwidth 23.355 MHz Freq/Channel Center Freq 5.18000000 GHz Start Freq 5.16500000 GHz Stop Freq 5.19500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5200	 Agilent R T Ch Freq 5.2 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.2 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 16.9851 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -166.056 kHz x dB Bandwidth 23.187 MHz Freq/Channel Center Freq 5.20000000 GHz Start Freq 5.18500000 GHz Stop Freq 5.21500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5240	 Agilent R T Ch Freq 5.24 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.24 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.0513 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -169.934 kHz x dB Bandwidth 23.125 MHz Freq/Channel Center Freq 5.24000000 GHz Start Freq 5.22500000 GHz Stop Freq 5.25500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

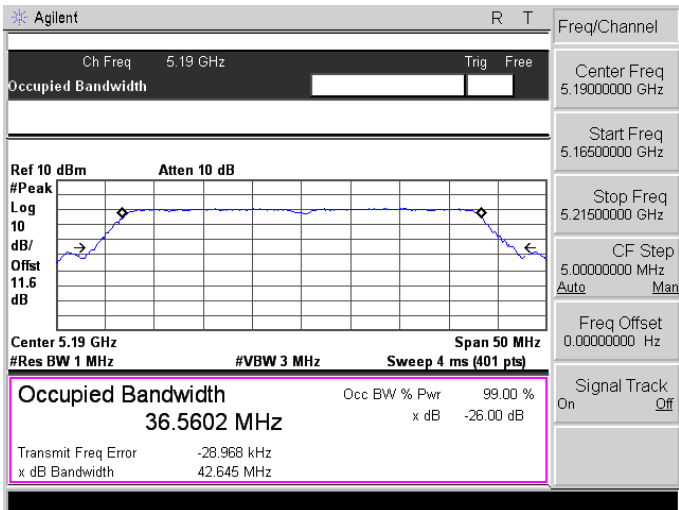
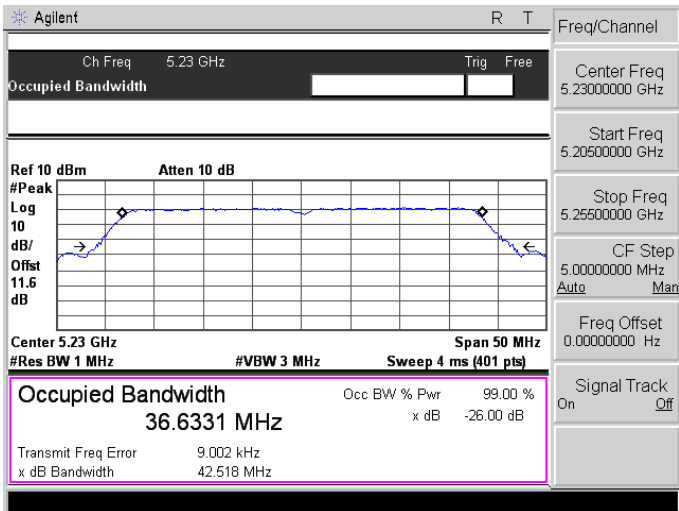
Mode 2: IEEE 802.11a Link Mode_ANT-0	
5260	 Agilent R T Ch Freq 5.26 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.26 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.0505 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -139.506 kHz x dB Bandwidth 23.214 MHz Freq/Channel Center Freq 5.26000000 GHz Start Freq 5.24500000 GHz Stop Freq 5.27500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5280	 Agilent R T Ch Freq 5.28 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.28 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.0305 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -121.052 kHz x dB Bandwidth 23.062 MHz Freq/Channel Center Freq 5.28000000 GHz Start Freq 5.26500000 GHz Stop Freq 5.29500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5320	 Agilent R T Ch Freq 5.32 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.32 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.0277 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -188.425 kHz x dB Bandwidth 23.063 MHz Freq/Channel Center Freq 5.32000000 GHz Start Freq 5.30500000 GHz Stop Freq 5.33500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

Mode 2: IEEE 802.11a Link Mode_ANT-0	
5500	 Agilent R T Ch Freq 5.5 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.5 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.0283 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -157.079 kHz x dB Bandwidth 22.980 MHz Freq/Channel Center Freq 5.5000000 GHz Start Freq 5.4850000 GHz Stop Freq 5.5150000 GHz CF Step 3.0000000 MHz Auto Man Freq Offset 0.0000000 Hz Signal Track On Off
5560	 Agilent R T Ch Freq 5.56 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.56 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.0427 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -163.181 kHz x dB Bandwidth 23.507 MHz Freq/Channel Center Freq 5.5600000 GHz Start Freq 5.5450000 GHz Stop Freq 5.5750000 GHz CF Step 3.0000000 MHz Auto Man Freq Offset 0.0000000 Hz Signal Track On Off
5700	 Agilent R T Ch Freq 5.7 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.7 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.0259 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -184.341 kHz x dB Bandwidth 23.799 MHz Freq/Channel Center Freq 5.7000000 GHz Start Freq 5.6850000 GHz Stop Freq 5.7150000 GHz CF Step 3.0000000 MHz Auto Man Freq Offset 0.0000000 Hz Signal Track On Off

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5180	 Agilent R T Ch Freq 5.18 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/Offset 11.6 dB Center 5.18 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 18.0982 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 66.164 kHz x dB Bandwidth 24.019 MHz Freq/Channel Center Freq 5.18000000 GHz Start Freq 5.16500000 GHz Stop Freq 5.19500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5200	 Agilent R T Ch Freq 5.2 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/Offset 11.6 dB Center 5.2 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 18.0587 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 53.646 kHz x dB Bandwidth 23.740 MHz Freq/Channel Center Freq 5.20000000 GHz Start Freq 5.18500000 GHz Stop Freq 5.21500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5240	 Agilent R T Ch Freq 5.24 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/Offset 11.6 dB Center 5.24 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 18.0713 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 65.911 kHz x dB Bandwidth 23.559 MHz Freq/Channel Center Freq 5.24000000 GHz Start Freq 5.22500000 GHz Stop Freq 5.25500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5260	 Agilent R T Ch Freq 5.26 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.26 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 18.0855 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 86.856 kHz x dB Bandwidth 23.532 MHz Freq/Channel Center Freq 5.26000000 GHz Start Freq 5.24500000 GHz Stop Freq 5.27500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5280	 Agilent R T Ch Freq 5.28 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.28 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 18.0900 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 101.486 kHz x dB Bandwidth 23.735 MHz Freq/Channel Center Freq 5.28000000 GHz Start Freq 5.26500000 GHz Stop Freq 5.29500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5320	 Agilent R T Ch Freq 5.32 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.32 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 18.0335 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 84.669 kHz x dB Bandwidth 24.047 MHz Freq/Channel Center Freq 5.32000000 GHz Start Freq 5.30500000 GHz Stop Freq 5.33500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

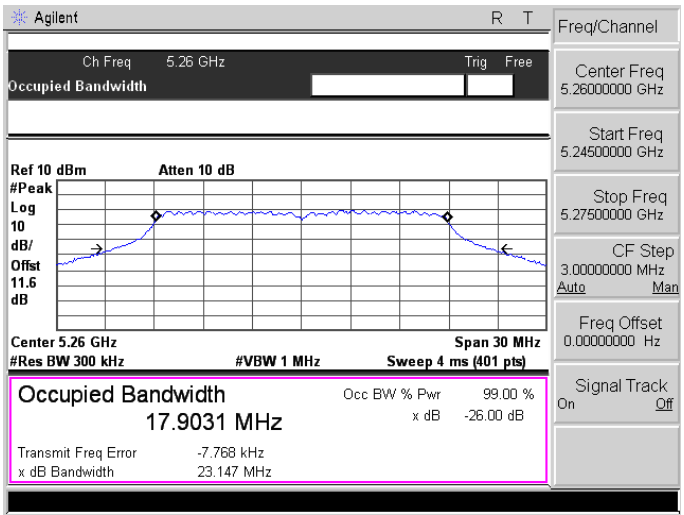
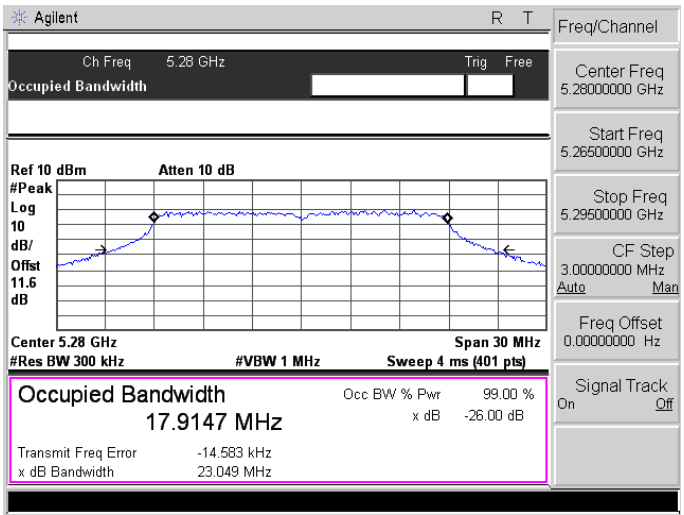
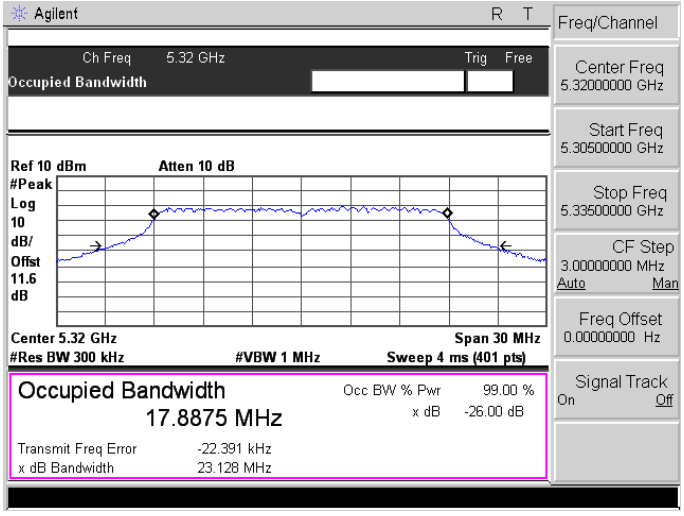
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5500	 Agilent R T Ch Freq 5.5 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.5 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 18.0942 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 88.119 kHz x dB Bandwidth 23.895 MHz Freq/Channel Center Freq 5.50000000 GHz Start Freq 5.48500000 GHz Stop Freq 5.51500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5560	 Agilent R T Ch Freq 5.56 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.56 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 18.0713 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 60.628 kHz x dB Bandwidth 23.425 MHz Freq/Channel Center Freq 5.56000000 GHz Start Freq 5.54500000 GHz Stop Freq 5.57500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5700	 Agilent R T Ch Freq 5.7 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.7 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 18.0422 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -3.907 kHz x dB Bandwidth 23.539 MHz Freq/Channel Center Freq 5.70000000 GHz Start Freq 5.68500000 GHz Stop Freq 5.71500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

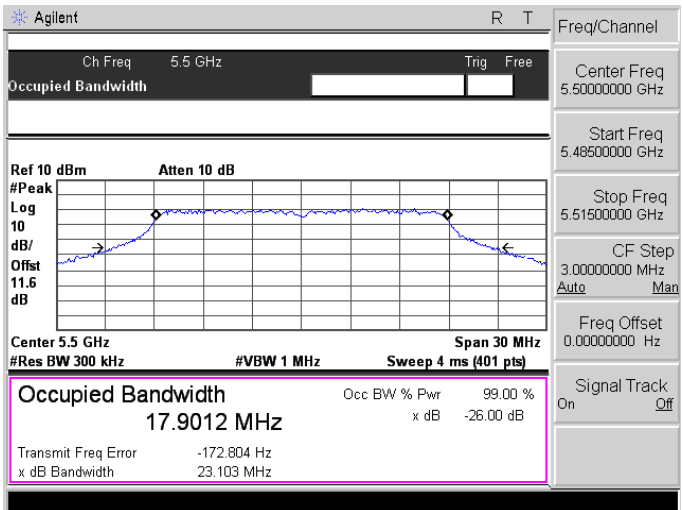
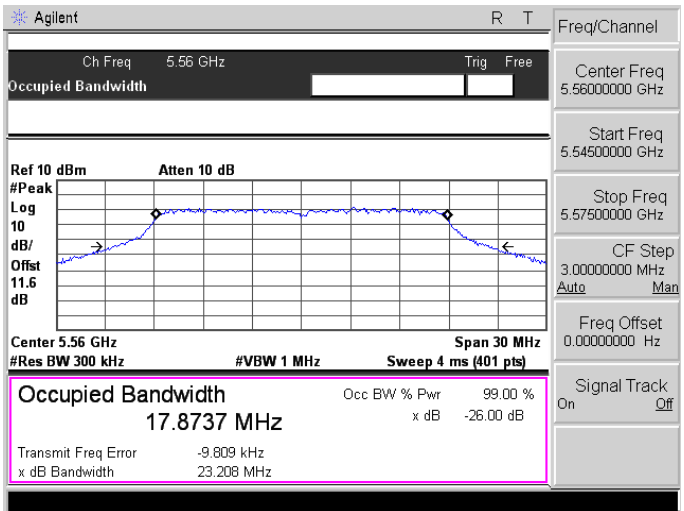
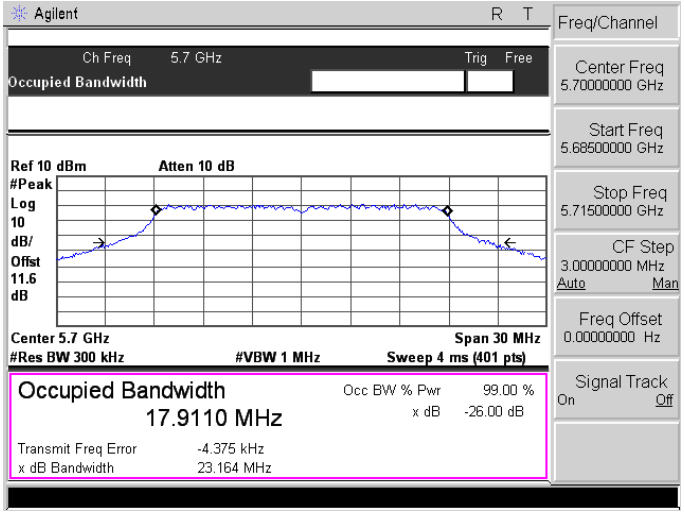
Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0	
5190	 Agilent R T Ch Freq 5.19 GHz Trig Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.19 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.5602 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -28.968 kHz x dB Bandwidth 42.645 MHz Freq/Channel Center Freq 5.19000000 GHz Start Freq 5.16500000 GHz Stop Freq 5.21500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5230	 Agilent R T Ch Freq 5.23 GHz Trig Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.23 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.6331 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 9.002 kHz x dB Bandwidth 42.518 MHz Freq/Channel Center Freq 5.23000000 GHz Start Freq 5.20500000 GHz Stop Freq 5.25500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

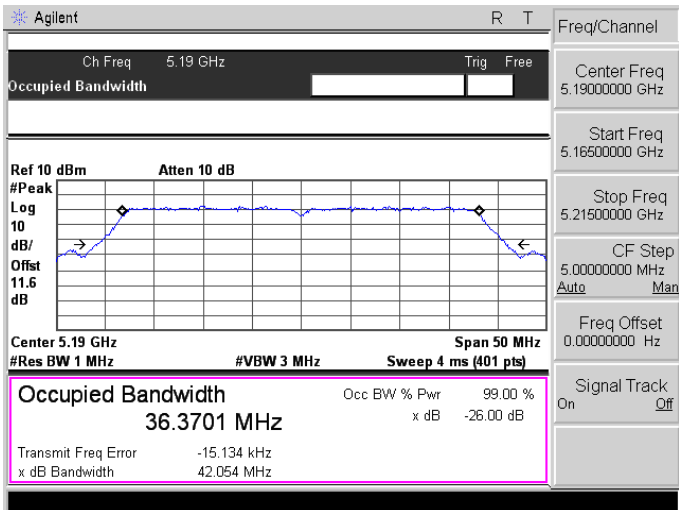
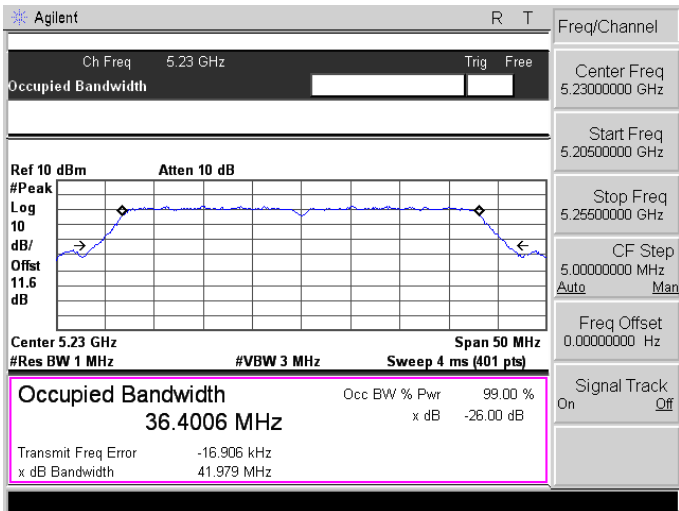
Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0	
5270	Agilent R T Ch Freq 5.27 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.27 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.6335 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 37.931 kHz x dB Bandwidth 42.657 MHz Freq/Channel Center Freq 5.27000000 GHz Start Freq 5.24500000 GHz Stop Freq 5.29500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5310	Agilent R T Ch Freq 5.31 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.31 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.6024 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 101.042 kHz x dB Bandwidth 42.475 MHz Freq/Channel Center Freq 5.31000000 GHz Start Freq 5.28500000 GHz Stop Freq 5.33500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

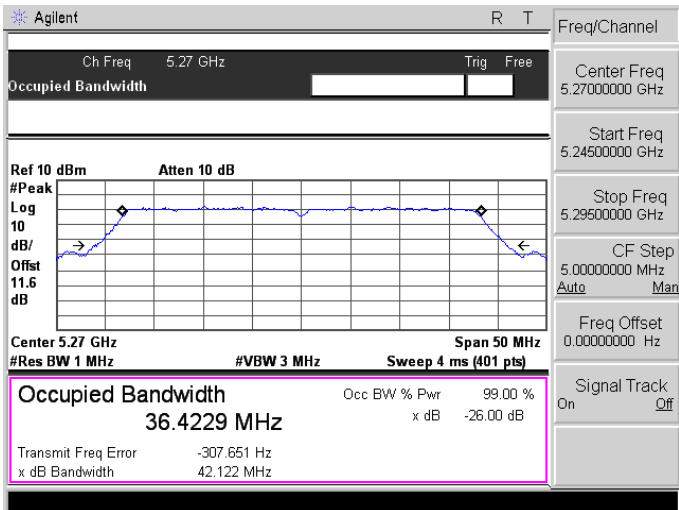
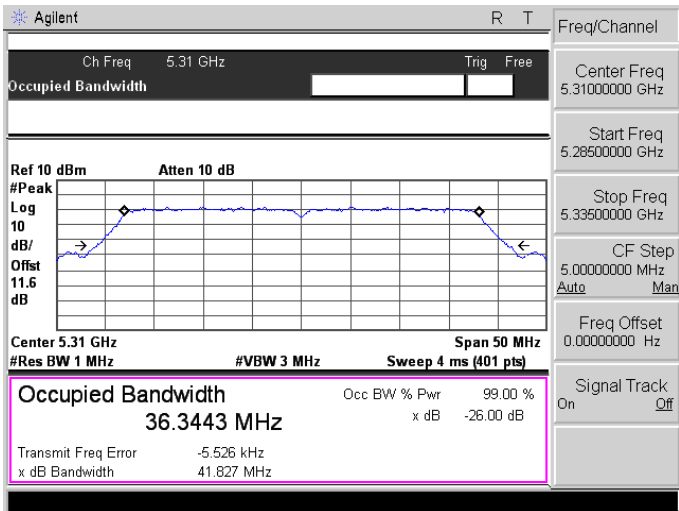
Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0	
5510	Agilent R T Ch Freq 5.51 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.51 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.6898 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -5.438 kHz x dB Bandwidth 42.723 MHz Freq/Channel Center Freq 5.51000000 GHz Start Freq 5.48500000 GHz Stop Freq 5.53500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5550	Agilent R T Ch Freq 5.55 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.55 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.6355 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -32.390 kHz x dB Bandwidth 42.758 MHz Freq/Channel Center Freq 5.55000000 GHz Start Freq 5.52500000 GHz Stop Freq 5.57500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5670	Agilent R T Ch Freq 5.67 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.67 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.6373 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -117.587 kHz x dB Bandwidth 42.502 MHz Freq/Channel Center Freq 5.67000000 GHz Start Freq 5.64500000 GHz Stop Freq 5.69500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

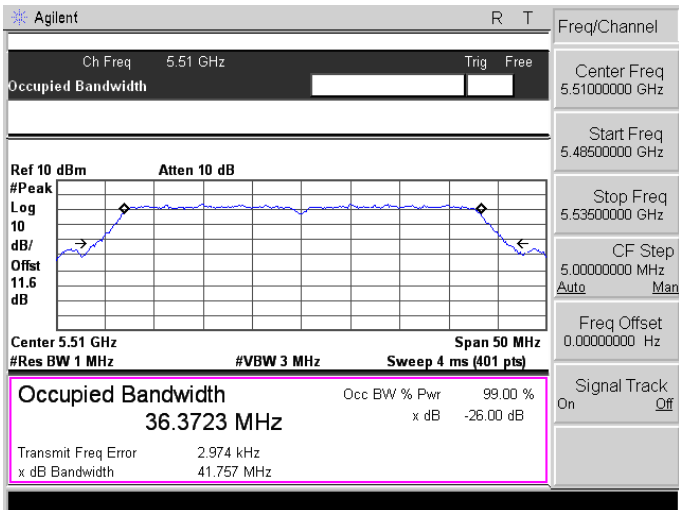
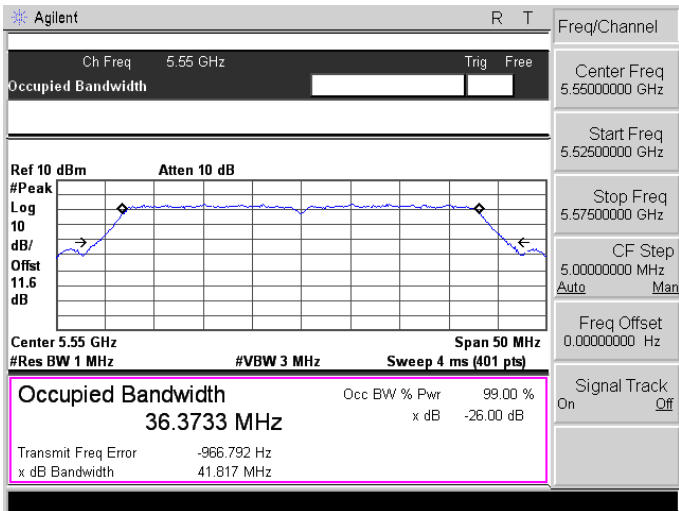
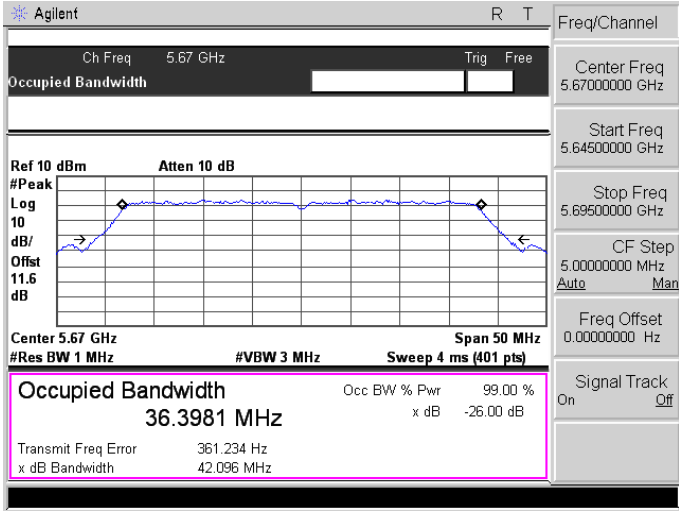
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5180	Agilent R T Ch Freq 5.18 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.18 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.9094 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 716.454 Hz x dB Bandwidth 23.098 MHz Freq/Channel Center Freq 5.18000000 GHz Start Freq 5.16500000 GHz Stop Freq 5.19500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5200	Agilent R T Ch Freq 5.2 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.2 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.8973 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -14.332 kHz x dB Bandwidth 22.869 MHz Freq/Channel Center Freq 5.20000000 GHz Start Freq 5.18500000 GHz Stop Freq 5.21500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5240	Agilent R T Ch Freq 5.24 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.24 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.9095 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -4.051 kHz x dB Bandwidth 23.099 MHz Freq/Channel Center Freq 5.24000000 GHz Start Freq 5.22500000 GHz Stop Freq 5.25500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5260	 Agilent R T Ch Freq 5.26 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/Offset 11.6 dB Center 5.26 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.9031 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -7.768 kHz x dB Bandwidth 23.147 MHz Freq/Channel Center Freq 5.26000000 GHz Start Freq 5.24500000 GHz Stop Freq 5.27500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5280	 Agilent R T Ch Freq 5.28 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/Offset 11.6 dB Center 5.28 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.9147 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -14.583 kHz x dB Bandwidth 23.049 MHz Freq/Channel Center Freq 5.28000000 GHz Start Freq 5.26500000 GHz Stop Freq 5.29500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5320	 Agilent R T Ch Freq 5.32 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/Offset 11.6 dB Center 5.32 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.8875 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -22.391 kHz x dB Bandwidth 23.128 MHz Freq/Channel Center Freq 5.32000000 GHz Start Freq 5.30500000 GHz Stop Freq 5.33500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5500	 Agilent R T Ch Freq 5.5 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.5 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.9012 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -172.804 Hz x dB Bandwidth 23.103 MHz Freq/Channel Center Freq 5.50000000 GHz Start Freq 5.48500000 GHz Stop Freq 5.51500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5560	 Agilent R T Ch Freq 5.56 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.56 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.8737 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -9.809 kHz x dB Bandwidth 23.208 MHz Freq/Channel Center Freq 5.56000000 GHz Start Freq 5.54500000 GHz Stop Freq 5.57500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5700	 Agilent R T Ch Freq 5.7 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.7 GHz Span 30 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 17.9110 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -4.375 kHz x dB Bandwidth 23.164 MHz Freq/Channel Center Freq 5.70000000 GHz Start Freq 5.68500000 GHz Stop Freq 5.71500000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5190	 Agilent R T Ch Freq 5.19 GHz Trig Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.19 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.3701 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -15.134 kHz x dB Bandwidth 42.054 MHz Freq/Channel Center Freq 5.19000000 GHz Start Freq 5.16500000 GHz Stop Freq 5.21500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5230	 Agilent R T Ch Freq 5.23 GHz Trig Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.23 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.4006 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -16.906 kHz x dB Bandwidth 41.979 MHz Freq/Channel Center Freq 5.23000000 GHz Start Freq 5.20500000 GHz Stop Freq 5.25500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5270	 Agilent R T Ch Freq 5.27 GHz Trig Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/Offset 11.6 dB Center 5.27 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.4229 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -307.651 Hz x dB Bandwidth 42.122 MHz Freq/Channel Center Freq 5.27000000 GHz Start Freq 5.24500000 GHz Stop Freq 5.29500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5310	 Agilent R T Ch Freq 5.31 GHz Trig Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/Offset 11.6 dB Center 5.31 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.3443 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -5.526 kHz x dB Bandwidth 41.827 MHz Freq/Channel Center Freq 5.31000000 GHz Start Freq 5.28500000 GHz Stop Freq 5.33500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5510	 Agilent R T Ch Freq 5.51 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.51 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.3723 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 2.974 kHz x dB Bandwidth 41.757 MHz Freq/Channel Center Freq 5.51000000 GHz Start Freq 5.48500000 GHz Stop Freq 5.53500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5550	 Agilent R T Ch Freq 5.55 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.55 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.3733 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error -966.792 Hz x dB Bandwidth 41.817 MHz Freq/Channel Center Freq 5.55000000 GHz Start Freq 5.52500000 GHz Stop Freq 5.57500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5670	 Agilent R T Ch Freq 5.67 GHz Trng Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/ Offset 11.6 dB Center 5.67 GHz Span 50 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 4 ms (401 pts) Occupied Bandwidth 36.3981 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 361.234 Hz x dB Bandwidth 42.096 MHz Freq/Channel Center Freq 5.67000000 GHz Start Freq 5.64500000 GHz Stop Freq 5.69500000 GHz CF Step 5.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

8 6dB RF Bandwidth & 99 % Occupied Bandwidth Measurement

8.1. Limit

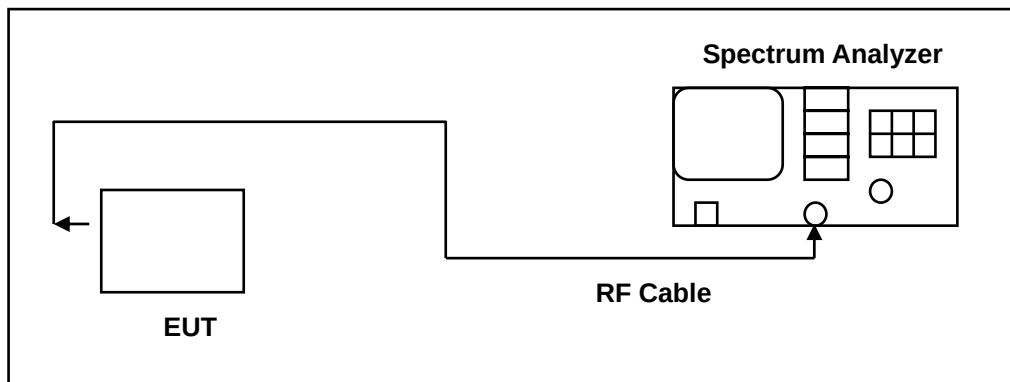
6dB RF Bandwidth

Systems using digital modulation techniques may operate in the 5725~5850MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

99 % Occupied Bandwidth

N/A

8.2. Test Setup



8.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/16/2014	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

dRemark: (1) Calibration period 1 year. (2) Calibration period 2 years. (3) Calibration period 3 years.

Note: N.C.R. = No Calibration Request.

8.4. Test Procedure

6dB RF Bandwidth

The EUT tested to UNII test procedure of KDB789033 D02 for compliance to FCC 47CFR 15.407 requirements.

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels.

99 % Occupied Bandwidth

The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

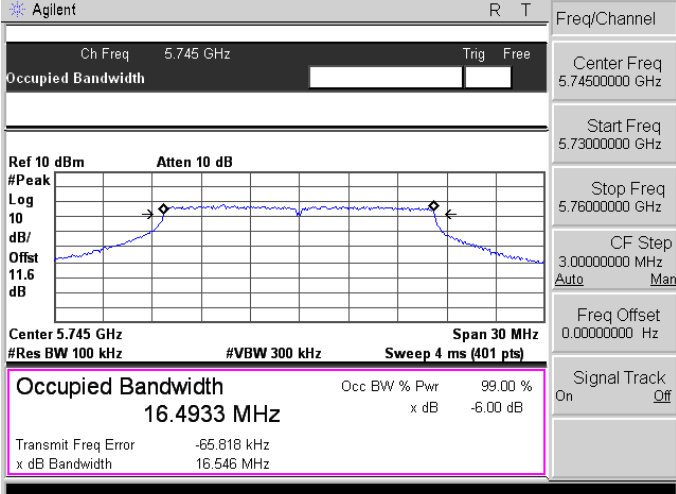
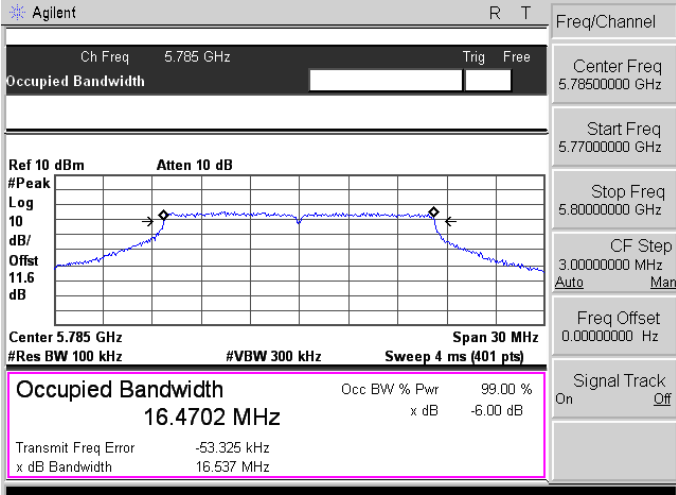
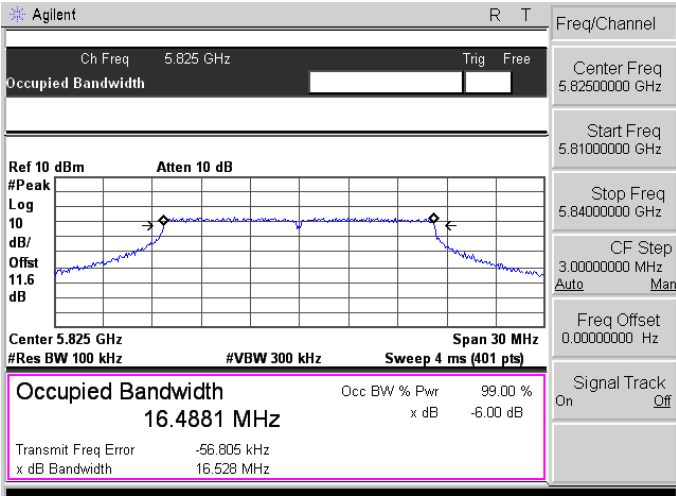
8.5. Test Result

Model Number	P0510		
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth		
Test Mode	Mode 2: IEEE 802.11a Link Mode		
Date of Test	09/02/2015		Test Site TE05
Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth Limit (kHz)
	ANT-0		
5745	16546	16.4933	> 500
5785	16537	16.4702	> 500
5825	16528	16.5280	> 500

Model Number	P0510				
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth				
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode				
Date of Test	09/02/2015			Test Site	TE05
Frequency (MHz)	6dB Bandwidth (kHz)		99% Occupied Bandwidth (MHz)		6dB Bandwidth Limit (kHz)
	ANT-0	ANT-1	ANT-0	ANT-1	
5745	17765	17739	17.6411	17.6463	> 500
5785	17751	17744	17.6374	17.6470	> 500
5825	17747	17747	17.6628	17.6661	> 500

Model Number	P0510				
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth				
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode				
Date of Test	09/02/2015			Test Site	TE05
Frequency (MHz)	6dB Bandwidth (kHz)		99% Occupied Bandwidth (MHz)		6dB Bandwidth Limit (kHz)
	ANT-0	ANT-1	ANT-0	ANT-1	
5755	36452	36484	35.9602	36.0485	> 500
5795	36430	36465	35.9558	36.0242	> 500

8.6. Test Graphs

Mode 2: IEEE 802.11a Link Mode_ANT-0	
5745	 Agilent R T Ch Freq 5.745 GHz Trig Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/Offset 11.6 dB Center 5.745 GHz Span 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts) Occupied Bandwidth 16.4933 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -65.818 kHz x dB Bandwidth 16.546 MHz Freq/Channel Center Freq 5.74500000 GHz Start Freq 5.73000000 GHz Stop Freq 5.76000000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5785	 Agilent R T Ch Freq 5.785 GHz Trig Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/Offset 11.6 dB Center 5.785 GHz Span 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts) Occupied Bandwidth 16.4702 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -53.325 kHz x dB Bandwidth 16.537 MHz Freq/Channel Center Freq 5.78500000 GHz Start Freq 5.77000000 GHz Stop Freq 5.80000000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5825	 Agilent R T Ch Freq 5.825 GHz Trig Free Occupied Bandwidth Ref 10 dBm Atten 10 dB #Peak Log 10 dB/Offset 11.6 dB Center 5.825 GHz Span 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts) Occupied Bandwidth 16.4881 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -56.805 kHz x dB Bandwidth 16.528 MHz Freq/Channel Center Freq 5.82500000 GHz Start Freq 5.81000000 GHz Stop Freq 5.84000000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0

5745

Agilent R T

Ch Freq 5.745 GHz Trig Free

Occupied Bandwidth

Ref 10 dBm Atten 10 dB

#Peak Log 10 dB/ Offst 11.6 dB

Center 5.745 GHz Span 30 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

Occupied Bandwidth 17.6411 MHz

Occ BW % Pwr 99.00 % x dB -6.00 dB

Transmit Freq Error -30.977 kHz

x dB Bandwidth 17.765 MHz

Freq/Channel

Center Freq 5.74500000 GHz

Start Freq 5.73000000 GHz

Stop Freq 5.76000000 GHz

CF Step 3.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

5785

Agilent R T

Ch Freq 5.785 GHz Trig Free

Occupied Bandwidth

Ref 10 dBm Atten 10 dB

#Peak Log 10 dB/ Offst 11.6 dB

Center 5.785 GHz Span 30 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

Occupied Bandwidth 17.6374 MHz

Occ BW % Pwr 99.00 % x dB -6.00 dB

Transmit Freq Error -29.843 kHz

x dB Bandwidth 17.751 MHz

Freq/Channel

Center Freq 5.78500000 GHz

Start Freq 5.77000000 GHz

Stop Freq 5.80000000 GHz

CF Step 3.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

5825

Agilent R T

Ch Freq 5.825 GHz Trig Free

Occupied Bandwidth

Ref 10 dBm Atten 10 dB

#Peak Log 10 dB/ Offst 11.6 dB

Center 5.825 GHz Span 30 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)

Occupied Bandwidth 17.6628 MHz

Occ BW % Pwr 99.00 % x dB -6.00 dB

Transmit Freq Error -28.832 kHz

x dB Bandwidth 17.747 MHz

Freq/Channel

Center Freq 5.82500000 GHz

Start Freq 5.81000000 GHz

Stop Freq 5.84000000 GHz

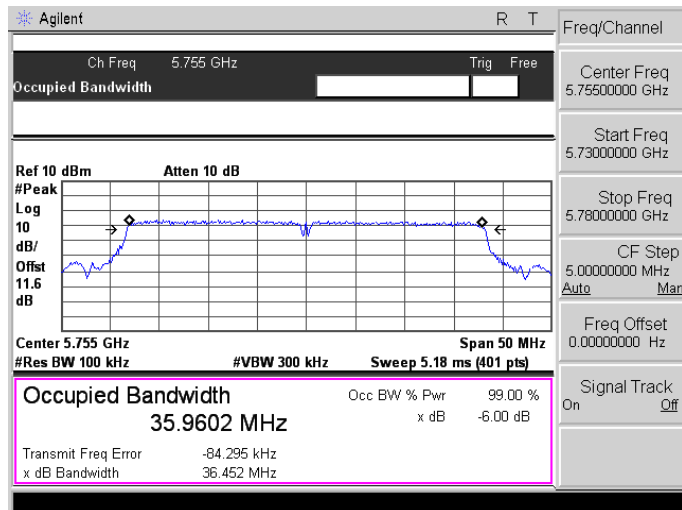
CF Step 3.00000000 MHz Auto Man

Freq Offset 0.00000000 Hz

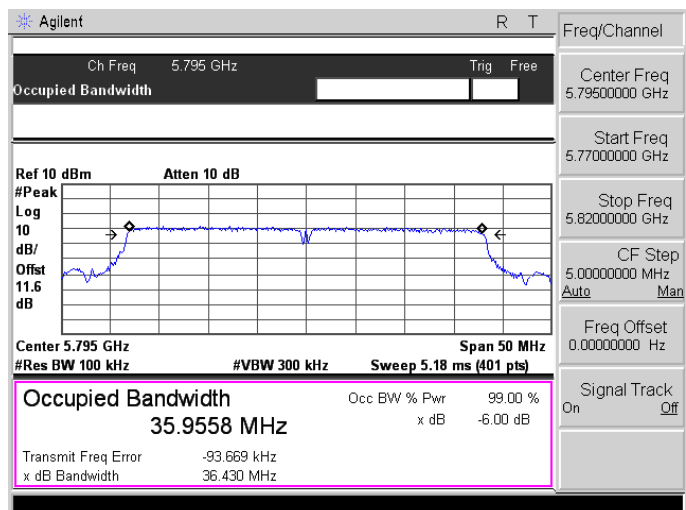
Signal Track On Off

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0

5755

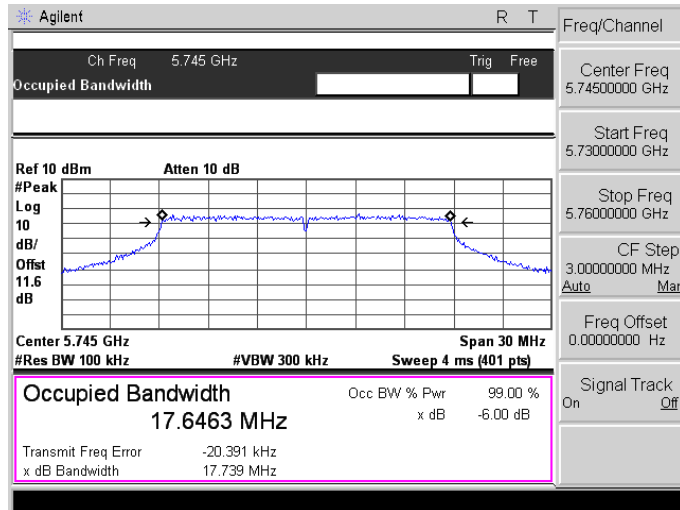


5795

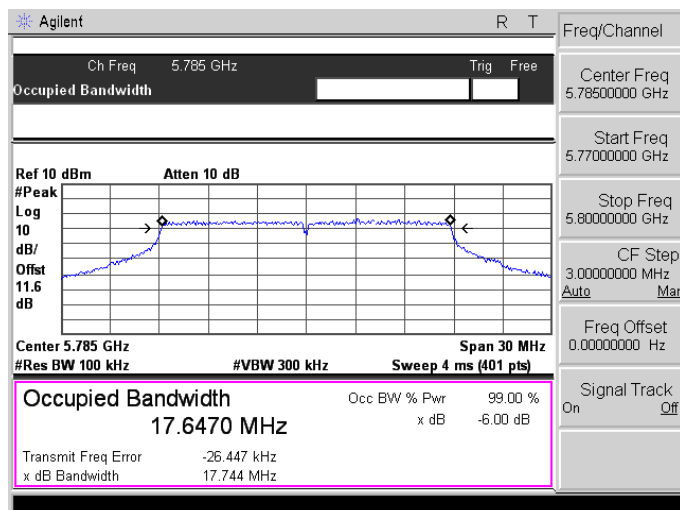


Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1

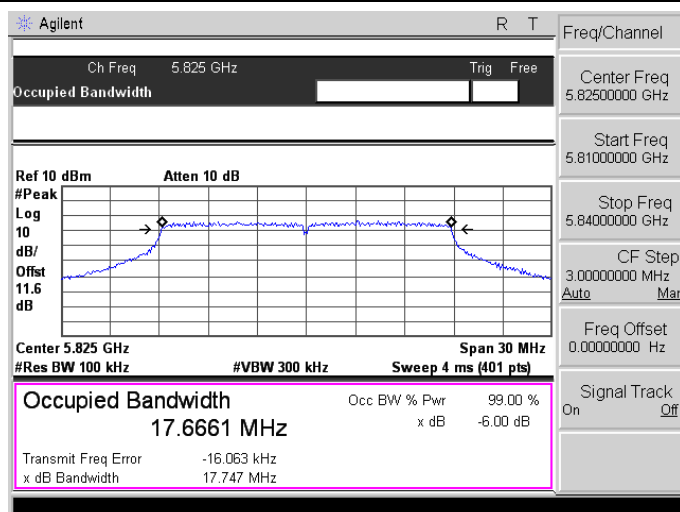
5745



5785



5825



Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1

Frequency (MHz)	Occupied Bandwidth (MHz)	Transmit Freq Error (kHz)	x dB Bandwidth (MHz)
5755	36.0485	-19.303	36.484
5795	36.0242	-20.718	36.465

The figure displays two screenshots of an Agilent spectrum analyzer interface, showing the results of a frequency sweep for two different channels (5755 MHz and 5795 MHz). The interface includes a top bar with 'Agilent' and 'R T' indicators, a central plot area, and a right-hand sidebar with various settings.

Channel 5755 MHz:

- Center Freq:** 5.755 GHz
- Occupied Bandwidth:** 36.0485 MHz
- Transmit Freq Error:** -19.303 kHz
- x dB Bandwidth:** 36.484 MHz
- Ref 10 dBm** and **Atten 10 dB** are indicated on the plot.
- Span 50 MHz** and **Sweep 5.18 ms (401 pts)** are shown at the bottom of the plot area.

Channel 5795 MHz:

- Center Freq:** 5.795 GHz
- Occupied Bandwidth:** 36.0242 MHz
- Transmit Freq Error:** -20.718 kHz
- x dB Bandwidth:** 36.465 MHz
- Ref 10 dBm** and **Atten 10 dB** are indicated on the plot.
- Span 50 MHz** and **Sweep 5.18 ms (401 pts)** are shown at the bottom of the plot area.

The right-hand sidebar contains the following settings for both channels:

- Freq/Channel:** Center Freq 5.7550000 GHz (for 5755 MHz) / 5.7950000 GHz (for 5795 MHz)
- Start Freq:** 5.7300000 GHz (for 5755 MHz) / 5.7700000 GHz (for 5795 MHz)
- Stop Freq:** 5.7800000 GHz (for 5755 MHz) / 5.8200000 GHz (for 5795 MHz)
- CF Step:** 5.00000000 MHz (Auto)
- Freq Offset:** 0.0000000 Hz
- Signal Track:** On

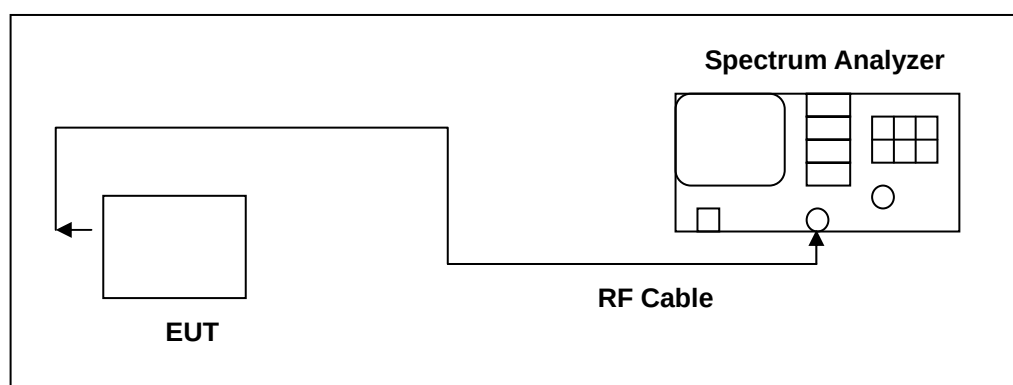
9 Peak Power Spectral Density Measurement

9.1. Limit

Conducted power spectral density

Frequency Range (MHz)	FCC Limit
5.150 ~ 5.250 GHz	11 dBm/MHz
5.250 ~ 5.350 GHz	11 dBm/MHz
5.470 ~ 5.725 GHz	11 dBm/MHz
5.725 ~ 5.850 GHz	30 dBm/500KHz

9.2. Test Setup



9.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/16/2014	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

9.4. Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

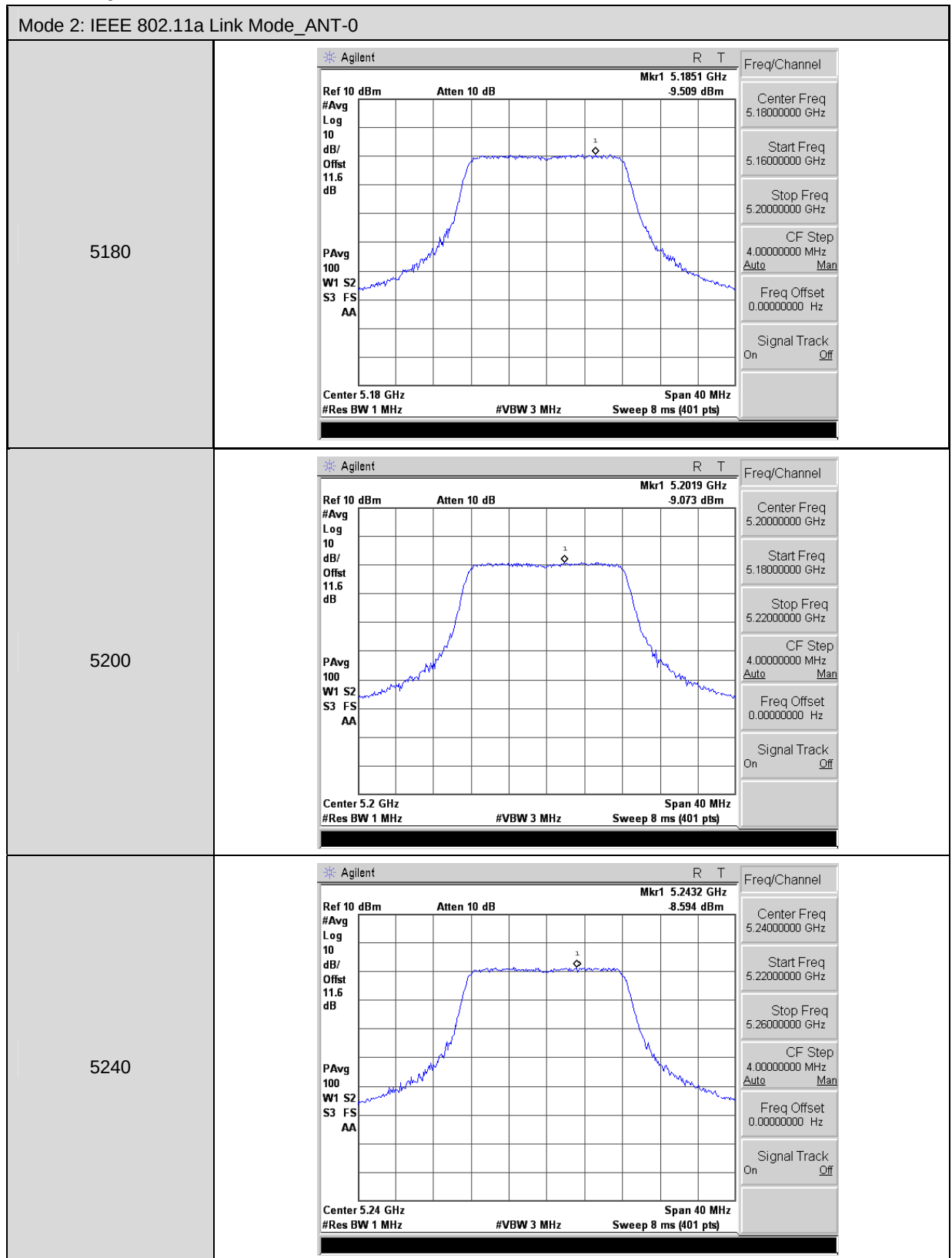
9.5. Test Result

Model Number	P0510		
Test Item	Conducted power spectral density		
Test Mode	Mode 2: IEEE 802.11a Link Mode		
Date of Test	09/02/2015	Test Site	TE02
Frequency (MHz)	Measurement (dBm/MHz)		FCC Limit (dBm/MHz)
	ANT-0		
5180	-9.509		< 11
5200	-9.073		
5240	-8.594		
5260	-10.020		< 11
5280	-8.748		
5320	-7.103		
5500	-5.094		< 11
5560	-4.027		
5700	-5.078		
Frequency (MHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	FCC Limit (dBm/500KHz)
	ANT-0		
5745	-17.41	-10.42	< 30
5785	-18.86	-11.87	
5825	-19.35	-12.36	

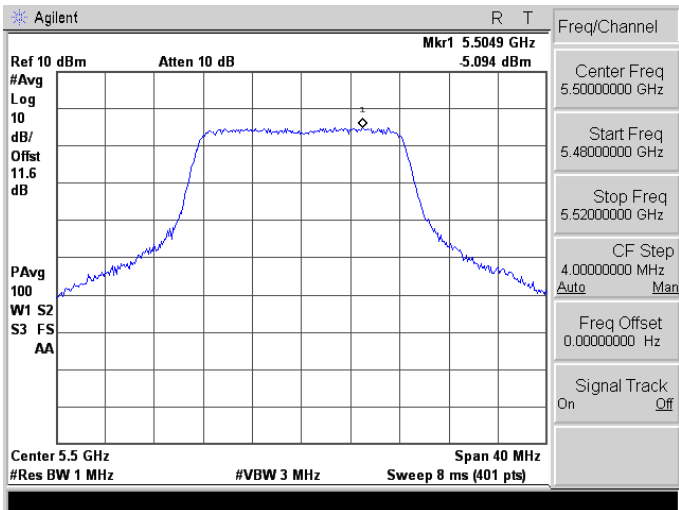
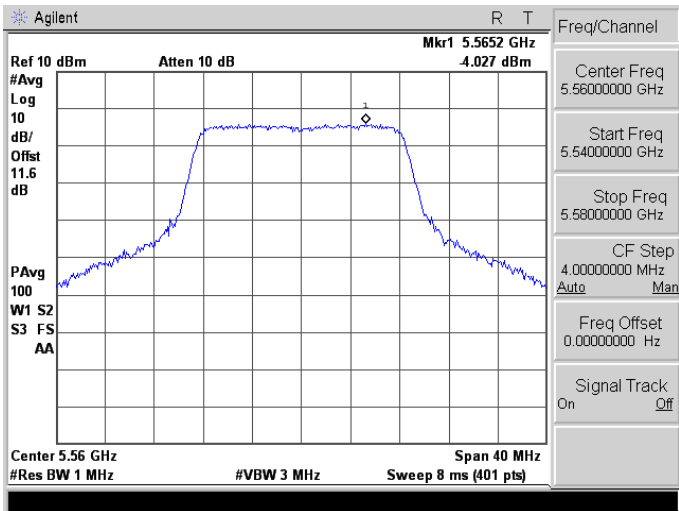
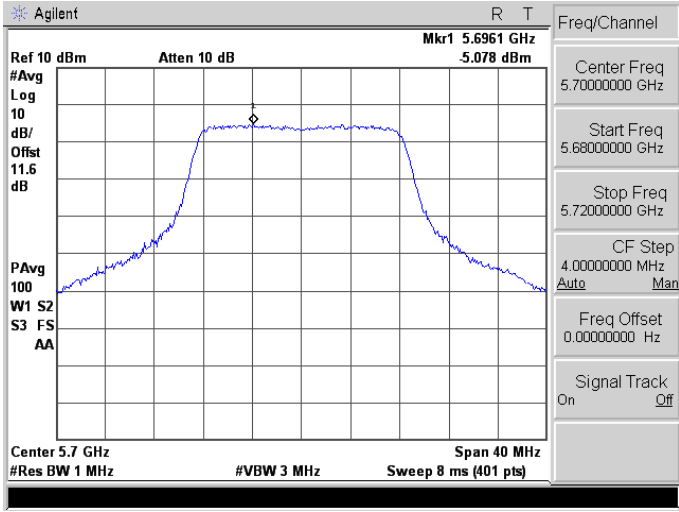
Model Number	P0510				
Test Item	Conducted power spectral density				
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode				
Date of Test	09/02/2015		Test Site	TE02	
Frequency (MHz)	Measurement (dBm/MHz)				FCC Limit (dBm/MHz)
	ANT-0	ANT-1	ANT-0+1		
5180	-10.610	-13.360	-8.761		< 11
5200	-10.380	-13.410	-8.626		
5240	-10.110	-13.900	-8.594		
5260	-8.608	-13.720	-7.441		< 11
5280	-8.918	-14.060	-7.758		
5320	-8.355	-14.010	-7.310		
5500	-6.614	-12.040	-5.519		< 11
5560	-5.686	-11.440	-4.662		
5700	-7.210	-11.440	-5.819		
Frequency (MHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	FCC Limit (dBm/500KHz)
	ANT-0		ANT-1		
5745	-17.99	-11.00	-19.94	-12.95	< 30
5785	-19.62	-12.63	-19.69	-12.70	
5825	-21.51	-14.52	-19.59	-12.60	
Frequency (MHz)	Measurement (dBm/500KHz)				FCC Limit (dBm/500KHz)
	ANT-0+1				
5745	-8.86				< 30
5785	-9.65				
5825	-10.44				

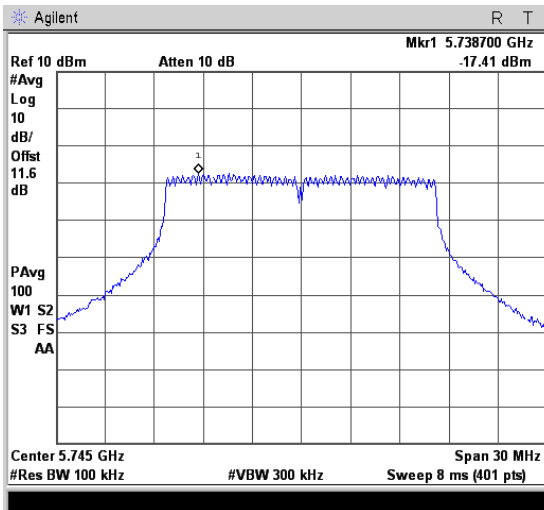
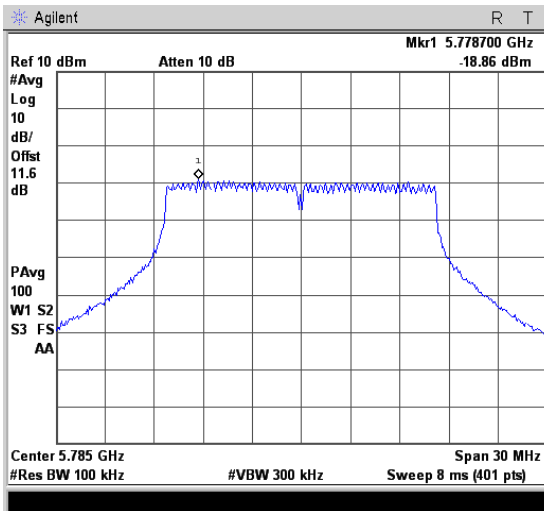
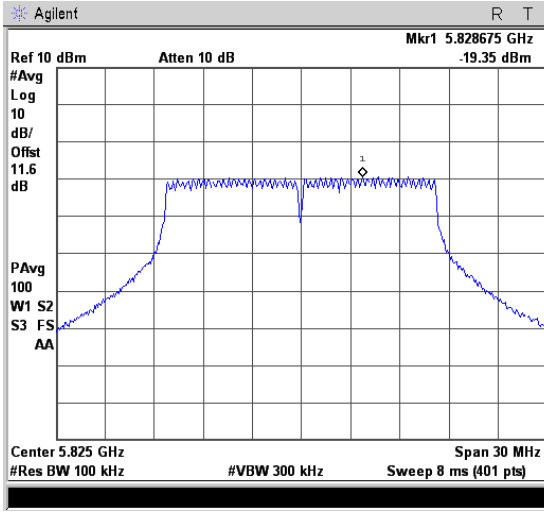
Model Number	P0510				
Test Item	Conducted power spectral density				
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode				
Date of Test	09/02/2015		Test Site	TE02	
Frequency (MHz)	Measurement (dBm/MHz)			FCC Limit (dBm/MHz)	
	ANT-0	ANT-1	ANT-0+1		
5190	-14.390	-16.580	-12.338	< 11	
5230	-13.850	-17.060	-12.155		
5270	-13.100	-16.940	-11.598	< 11	
5310	-12.100	-17.170	-10.923		
5510	-10.070	-14.800	-8.810	< 11	
5550	-9.605	-14.690	-8.432		
5670	-10.070	-14.870	-8.828		
Frequency (MHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	FCC Limit (dBm/500KHz)
	ANT-0		ANT-1		
5755	-21.33	-14.34	-22.92	-15.93	< 30
5795	-22.25	-15.26	-22.66	-15.67	
Frequency (MHz)	Measurement (dBm/500KHz)			FCC Limit (dBm/500KHz)	
	ANT-0+1				
5755	-12.05			< 30	
5795	-12.45				

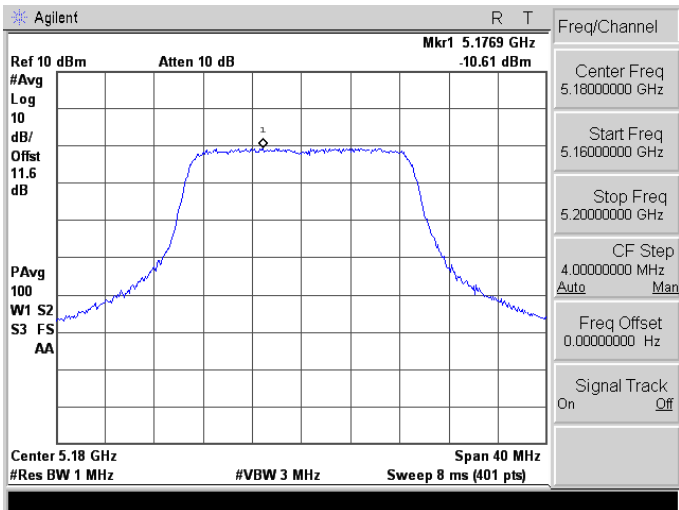
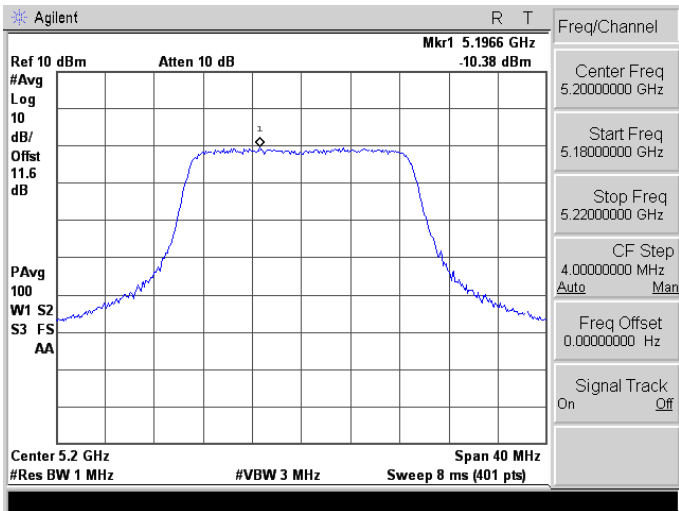
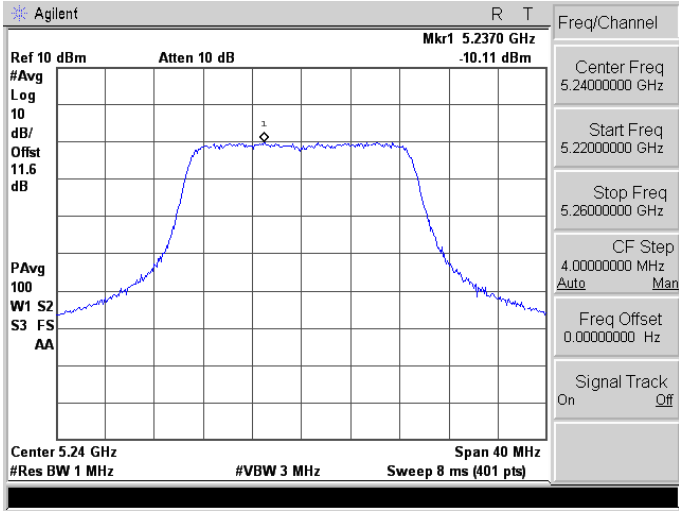
9.6. Test Graphs

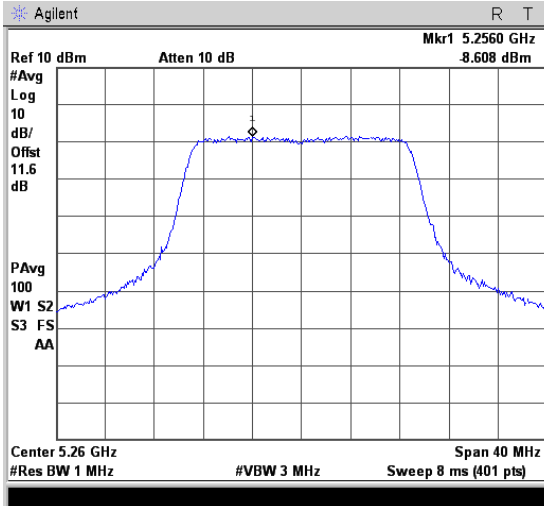
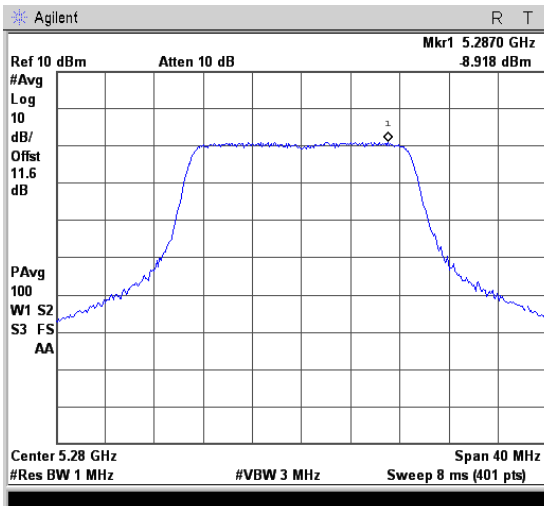
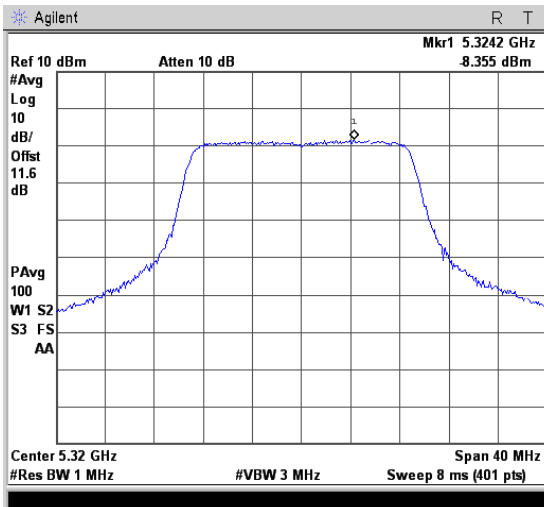


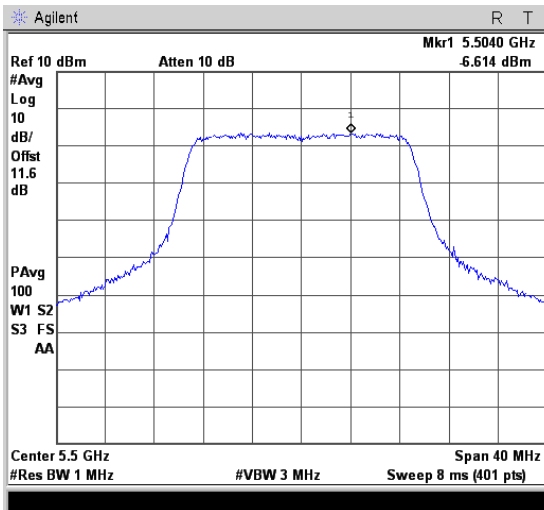
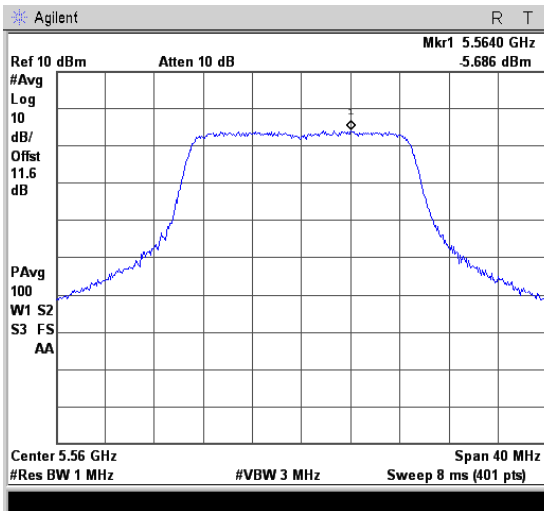
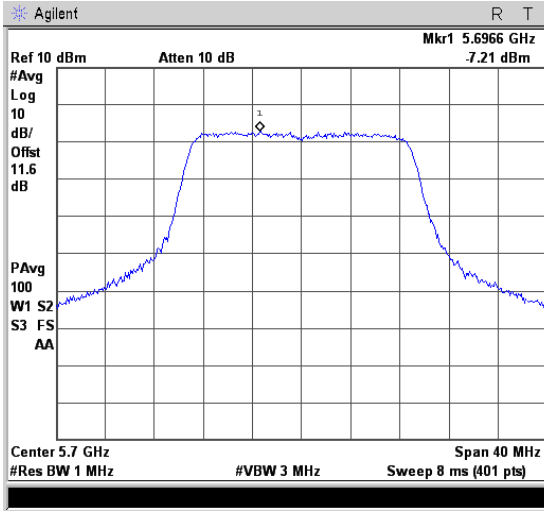
Mode 2: IEEE 802.11a Link Mode_ANT-0	
5260	
5280	
5320	

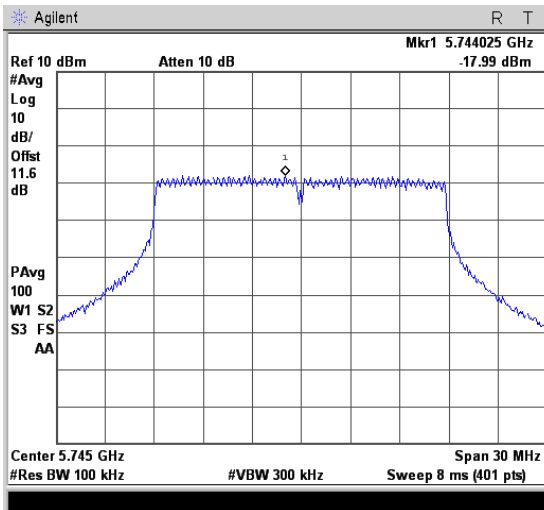
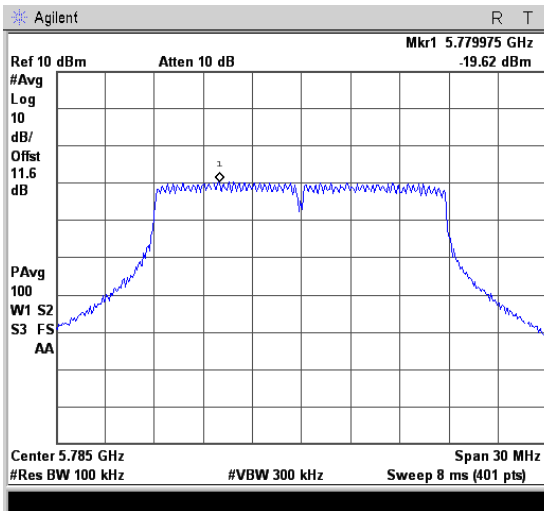
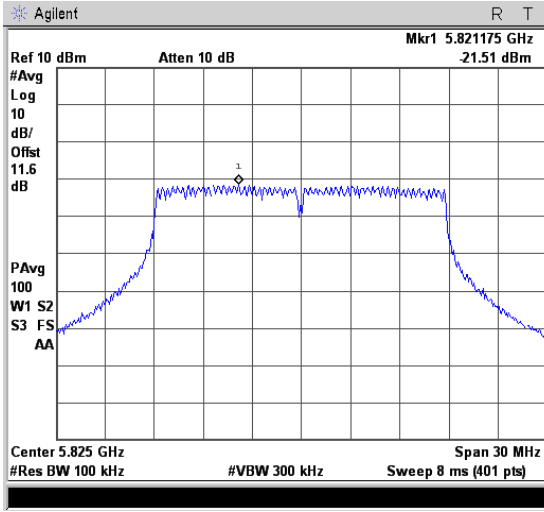
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5500	
5560	
5700	

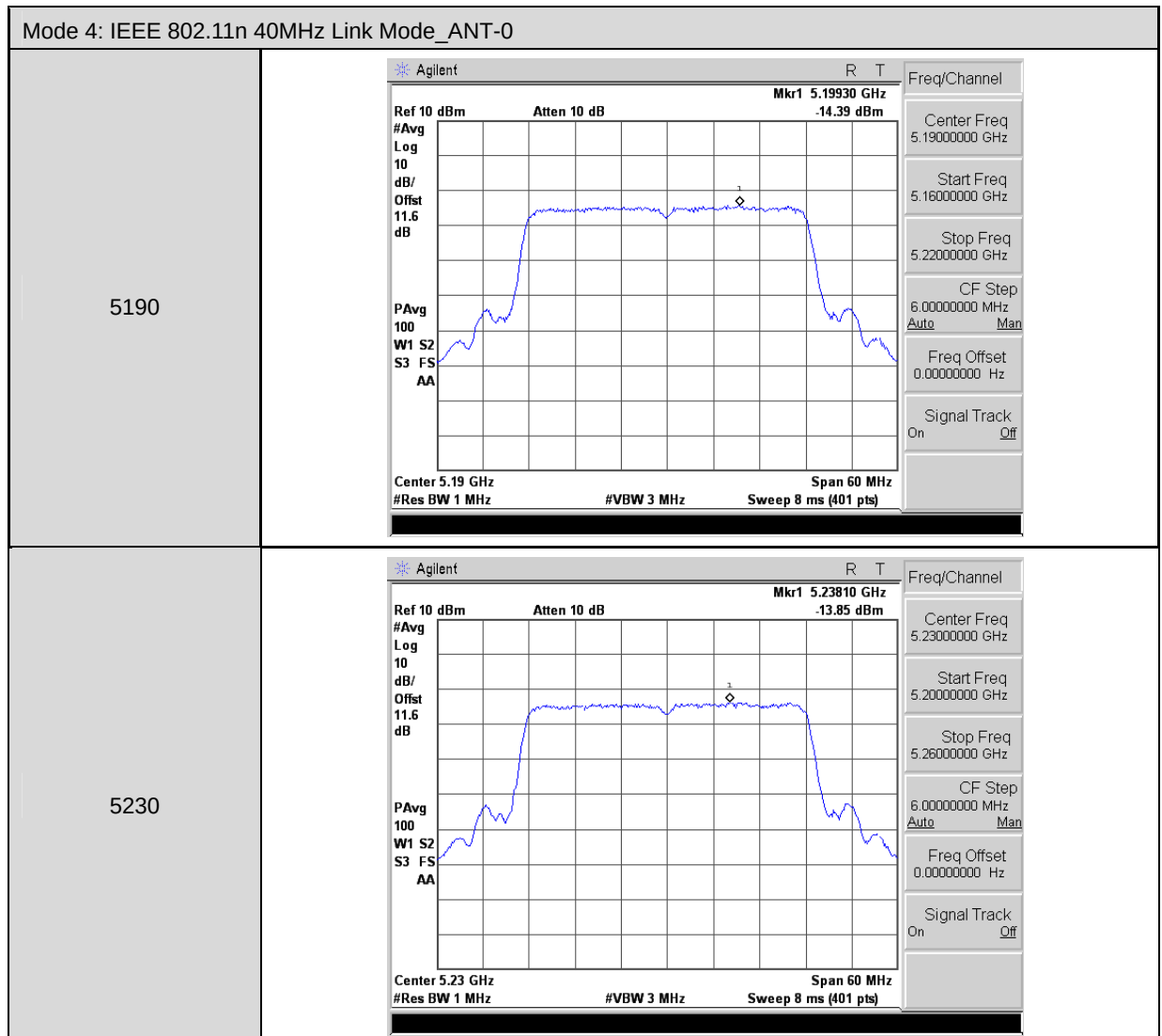
Mode 2: IEEE 802.11a Link Mode_ANT-0	
5745	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.738700 GHz -17.41 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.74500000 GHz Start Freq 5.73000000 GHz Stop Freq 5.76000000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5785	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.778700 GHz -18.86 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.78500000 GHz Start Freq 5.77000000 GHz Stop Freq 5.80000000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5825	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.828675 GHz -19.35 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.82500000 GHz Start Freq 5.81000000 GHz Stop Freq 5.84000000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

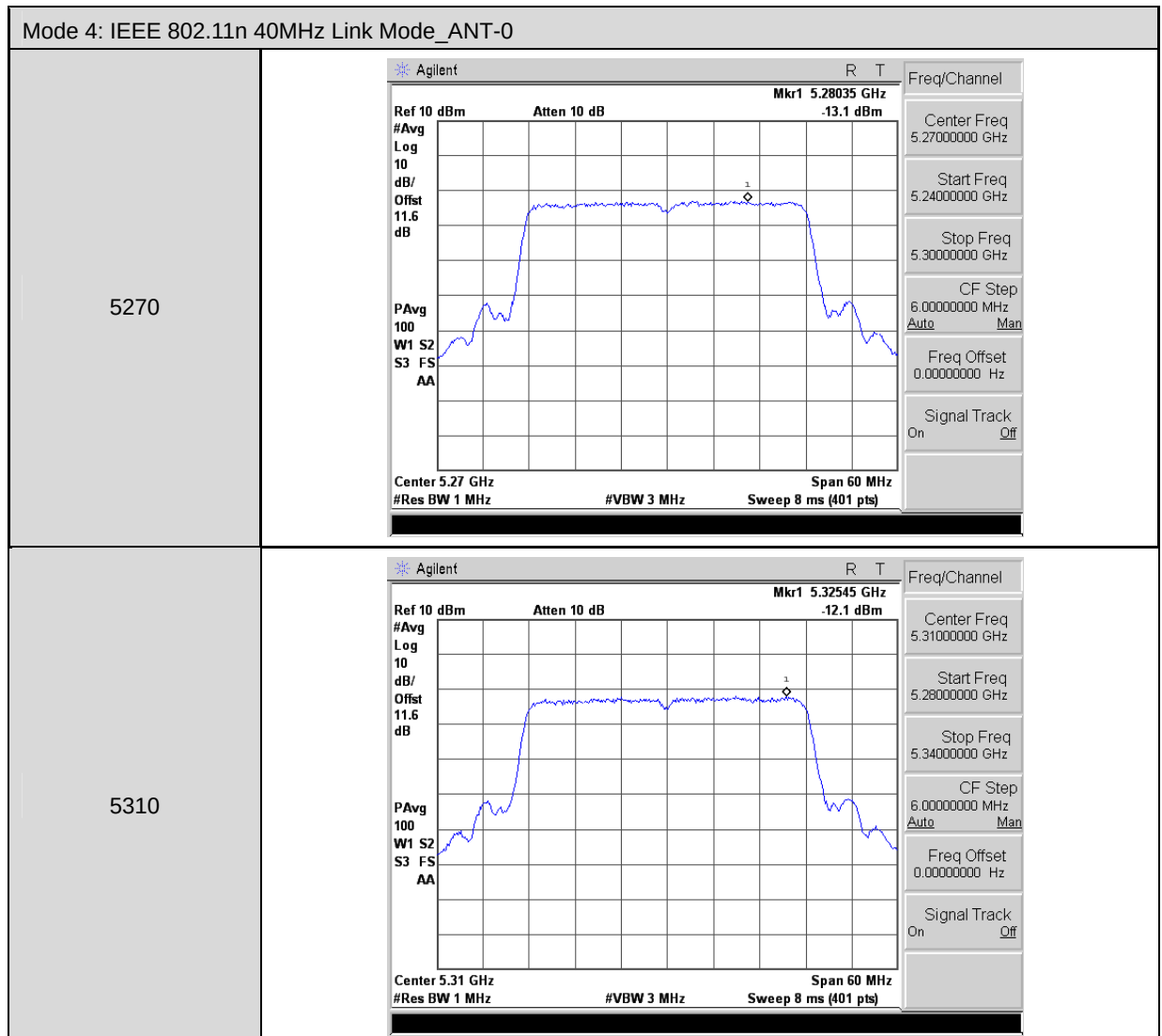
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5180	
5200	
5240	

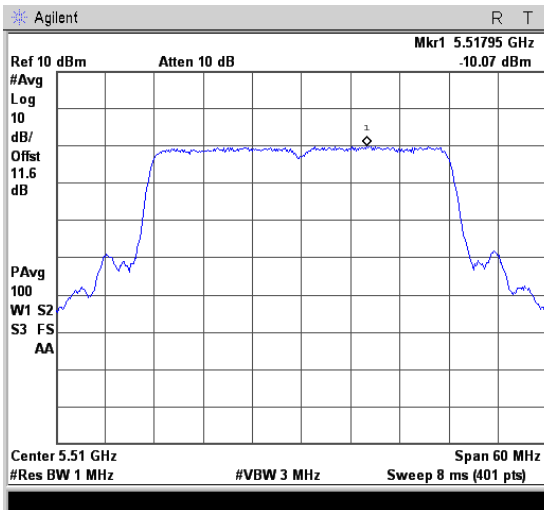
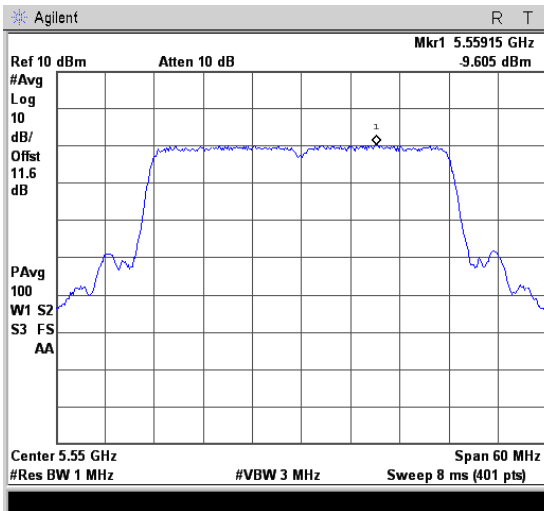
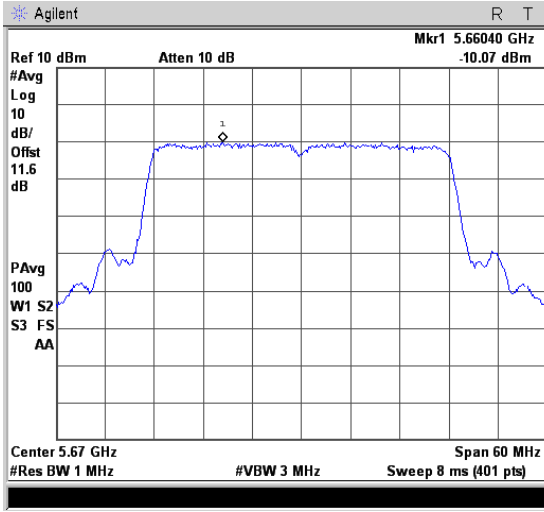
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5260	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.2560 GHz -8.608 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.26 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.26000000 GHz Start Freq 5.24000000 GHz Stop Freq 5.28000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5280	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.2870 GHz -8.918 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.28 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.28000000 GHz Start Freq 5.26000000 GHz Stop Freq 5.30000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5320	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.3242 GHz -8.355 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.32 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.32000000 GHz Start Freq 5.30000000 GHz Stop Freq 5.34000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

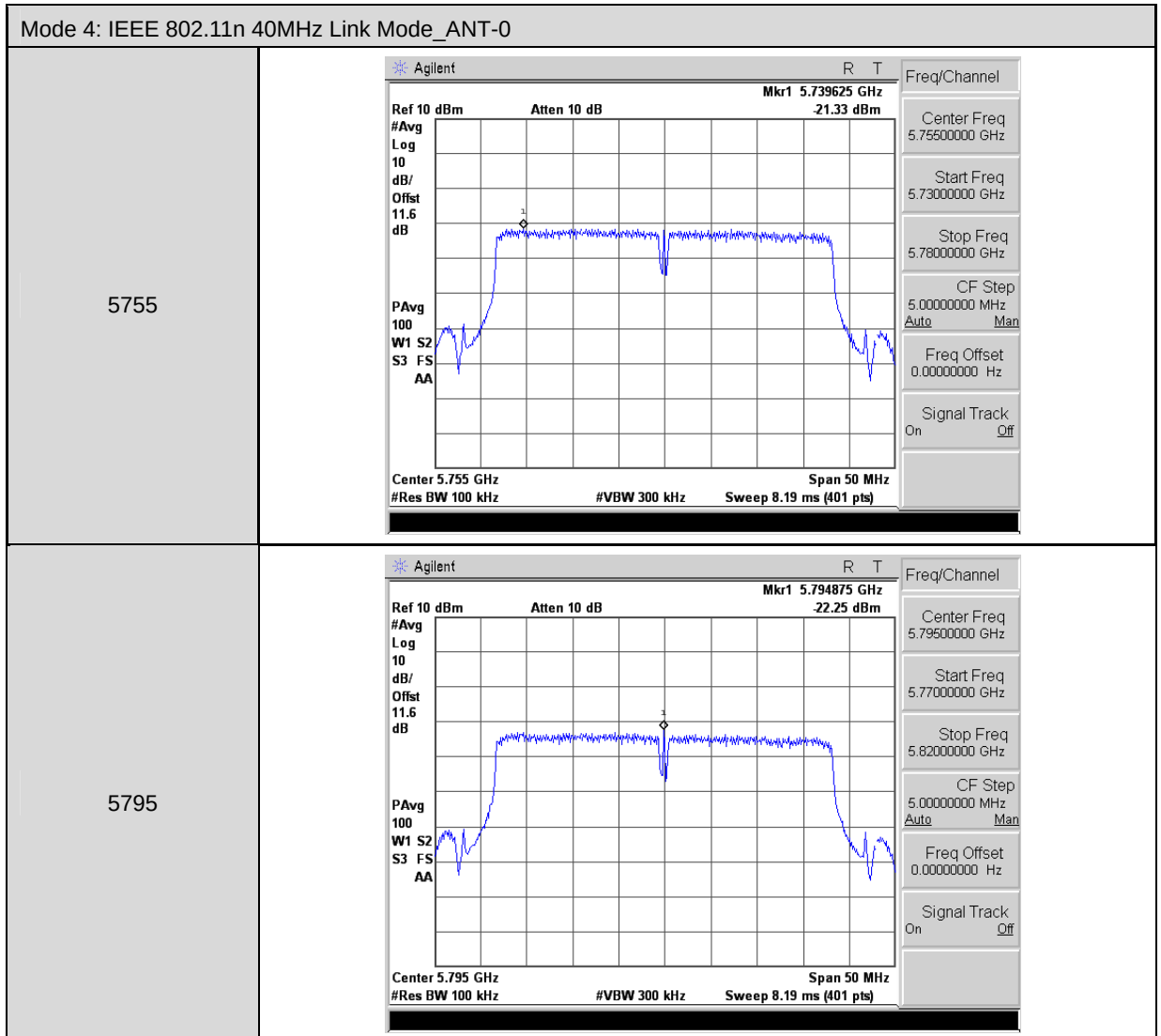
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5500	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.5040 GHz -6.614 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.5 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.50000000 GHz Start Freq 5.48000000 GHz Stop Freq 5.52000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5560	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.5640 GHz -5.686 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.56 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.56000000 GHz Start Freq 5.54000000 GHz Stop Freq 5.58000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5700	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.6966 GHz -7.21 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.7 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.70000000 GHz Start Freq 5.68000000 GHz Stop Freq 5.72000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

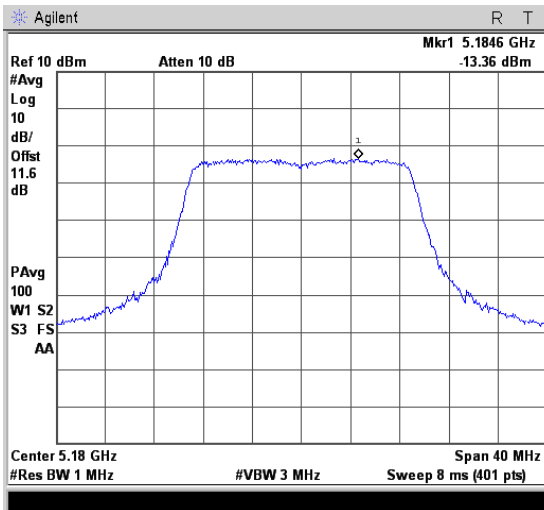
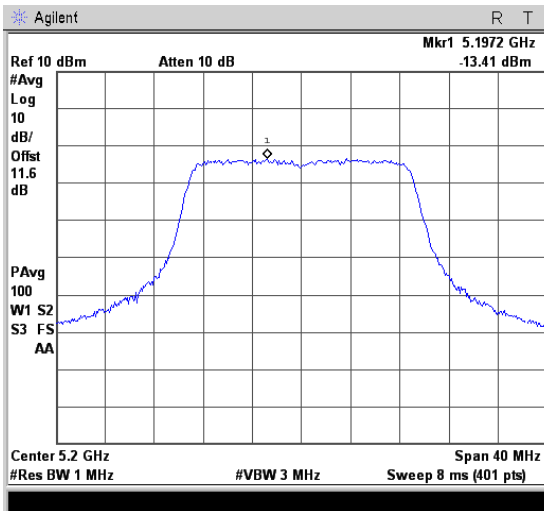
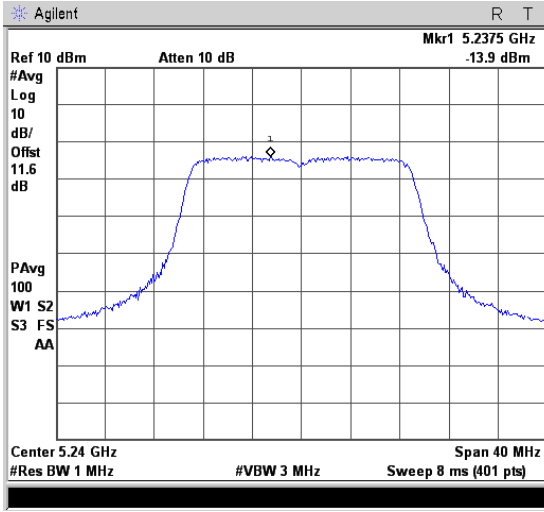
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5745	 Agilent R T Mkr1 5.744025 GHz -17.99 dBm Ref 10 dBm Atten 10 dB #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.74500000 GHz Start Freq 5.73000000 GHz Stop Freq 5.76000000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5785	 Agilent R T Mkr1 5.779975 GHz -19.62 dBm Ref 10 dBm Atten 10 dB #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.78500000 GHz Start Freq 5.77000000 GHz Stop Freq 5.80000000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5825	 Agilent R T Mkr1 5.821175 GHz -21.51 dBm Ref 10 dBm Atten 10 dB #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.82500000 GHz Start Freq 5.81000000 GHz Stop Freq 5.84000000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

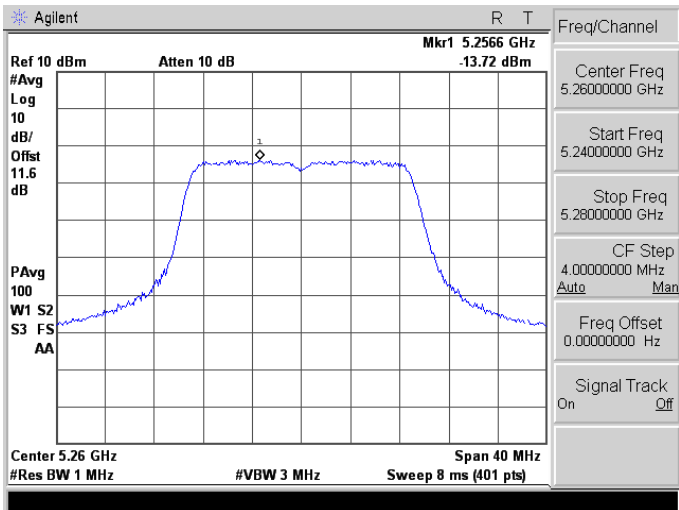
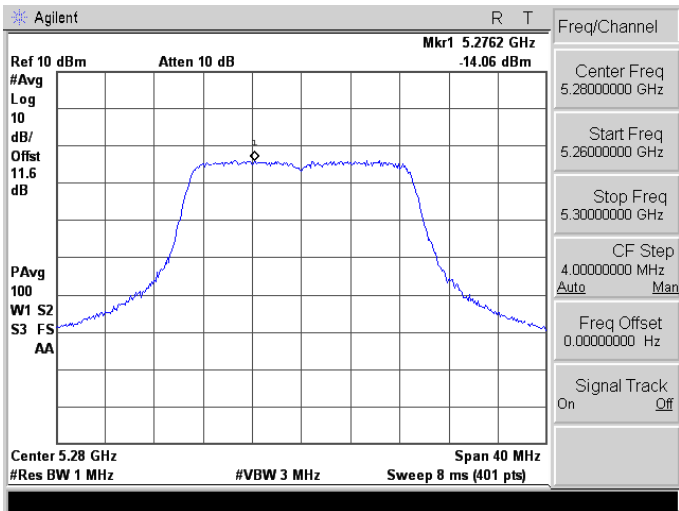
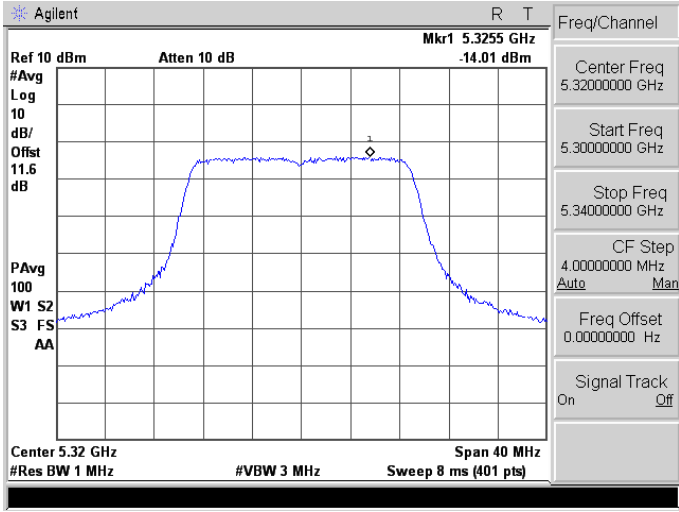


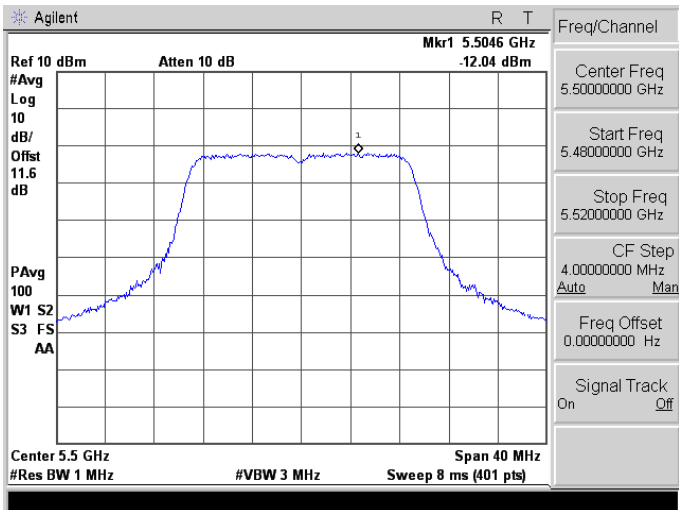
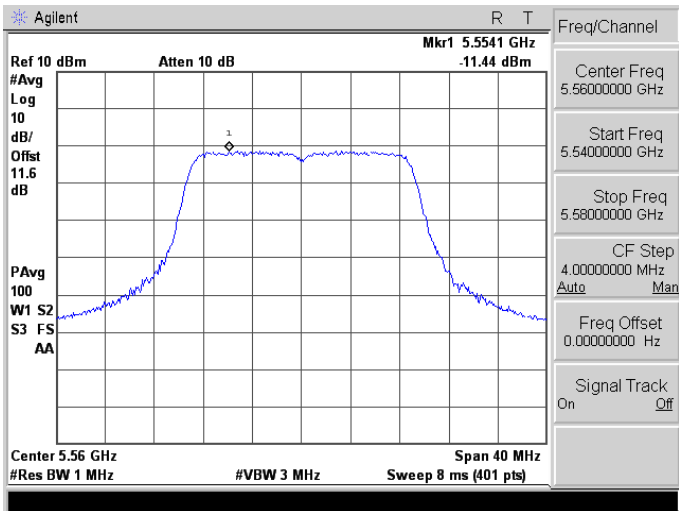
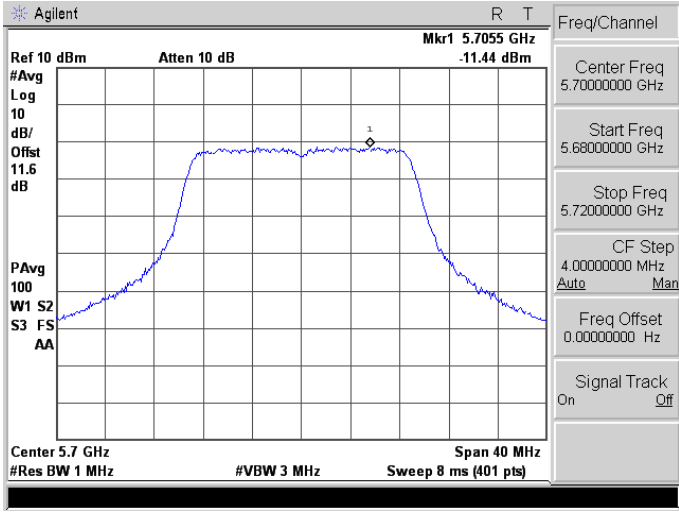


Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0	
5510	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.51795 GHz -10.07 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.51 GHz Span 60 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.51000000 GHz Start Freq 5.48000000 GHz Stop Freq 5.54000000 GHz CF Step 6.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5550	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.55915 GHz -9.605 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.55 GHz Span 60 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.55000000 GHz Start Freq 5.52000000 GHz Stop Freq 5.58000000 GHz CF Step 6.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5670	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.66040 GHz -10.07 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.67 GHz Span 60 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.67000000 GHz Start Freq 5.64000000 GHz Stop Freq 5.70000000 GHz CF Step 6.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

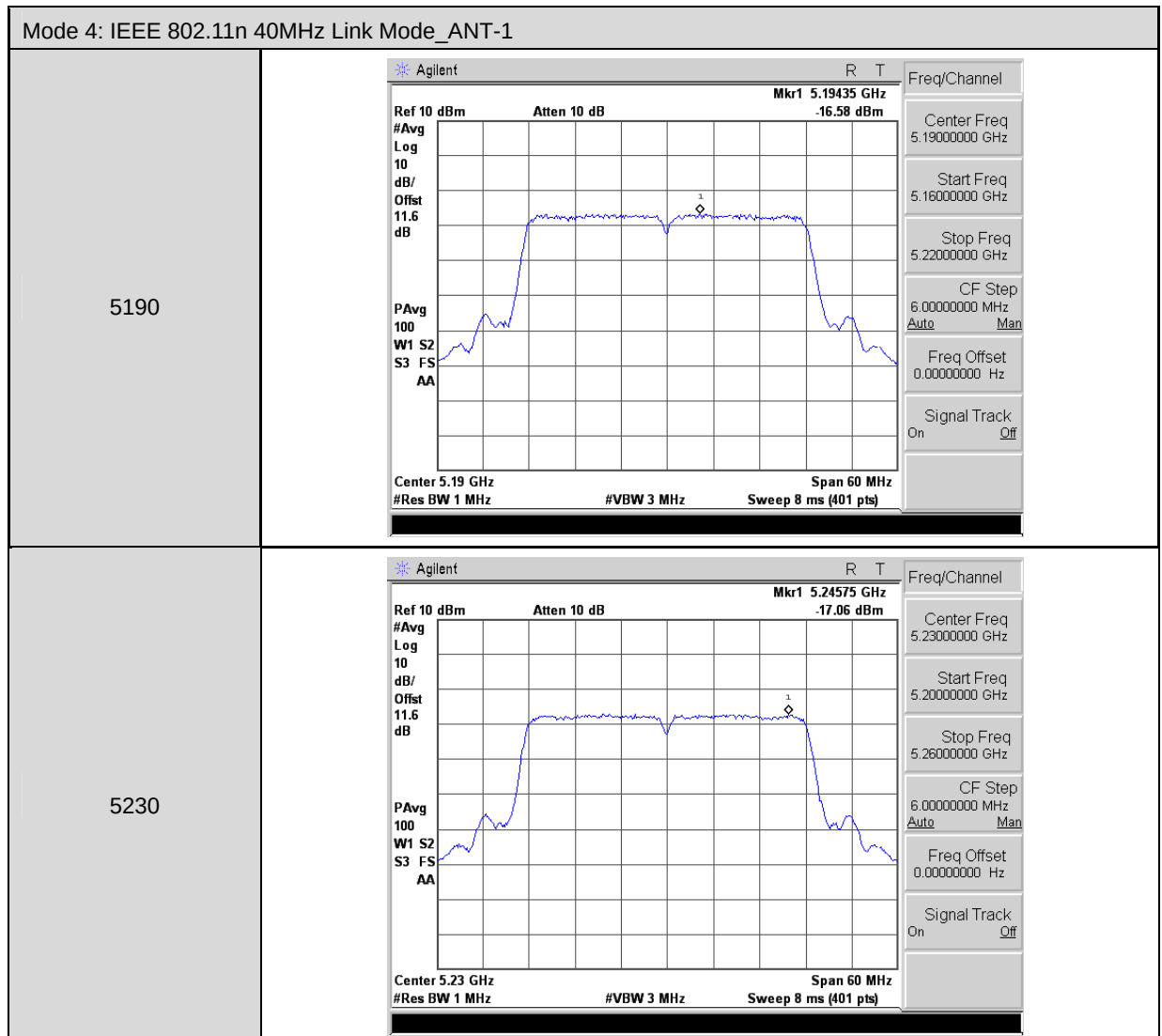


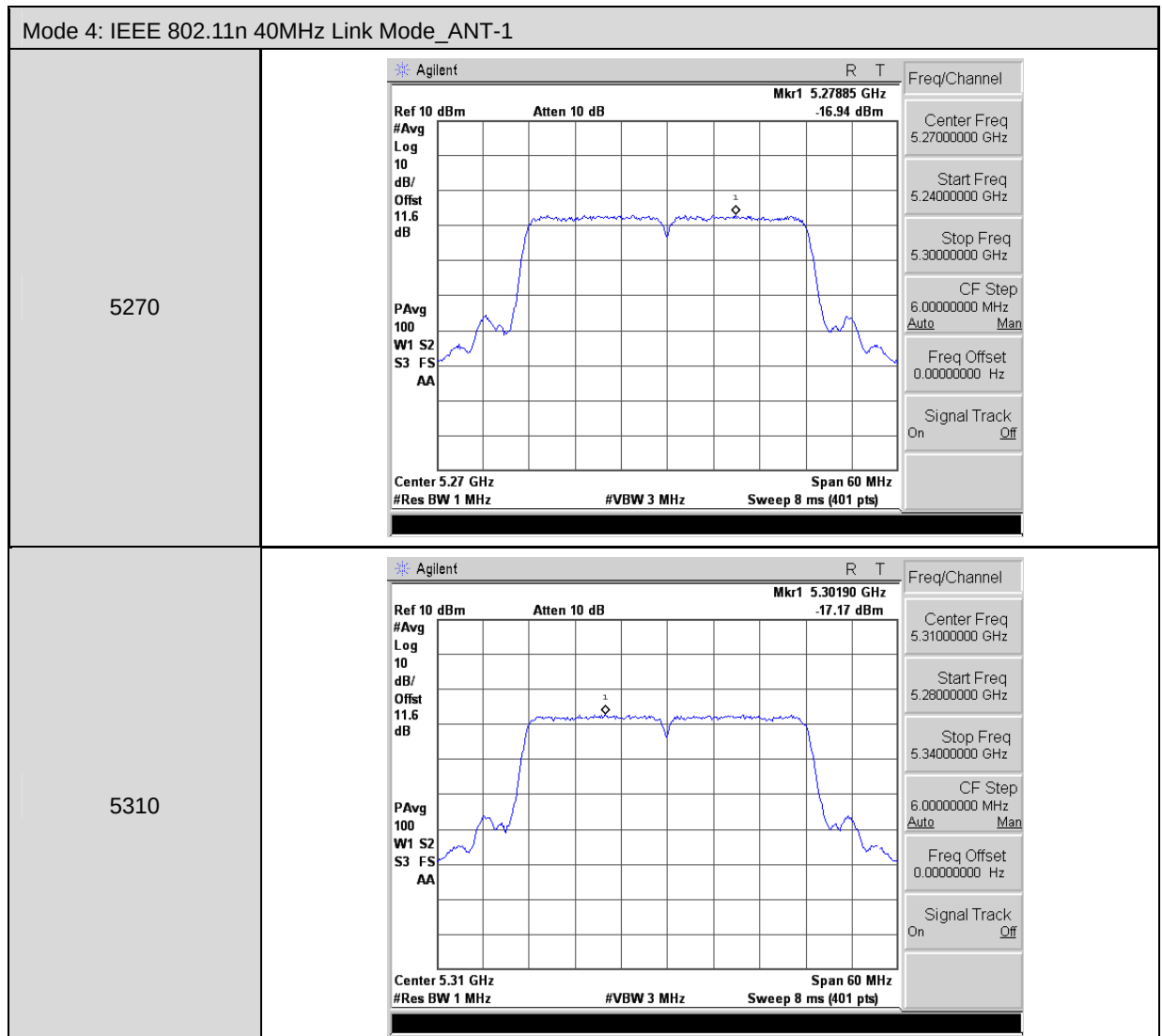
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5180	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.1846 GHz -13.36 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.18 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.18000000 GHz Start Freq 5.16000000 GHz Stop Freq 5.20000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5200	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.1972 GHz -13.41 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.2 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.20000000 GHz Start Freq 5.18000000 GHz Stop Freq 5.22000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5240	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.2375 GHz -13.9 dBm #Avg Log 10 dB/Offset 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.24 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.24000000 GHz Start Freq 5.22000000 GHz Stop Freq 5.26000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5260	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.2566 GHz -13.72 dBm #Avg Log 10 dB/ Offst 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.26 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.26000000 GHz Start Freq 5.24000000 GHz Stop Freq 5.28000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5280	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.2762 GHz -14.06 dBm #Avg Log 10 dB/ Offst 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.28 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.28000000 GHz Start Freq 5.26000000 GHz Stop Freq 5.30000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
5320	 Agilent R T Ref 10 dBm Atten 10 dB Mkr1 5.3255 GHz -14.01 dBm #Avg Log 10 dB/ Offst 11.6 dB PAvg 100 W1 S2 S3 FS AA Center 5.32 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Freq/Channel Center Freq 5.32000000 GHz Start Freq 5.30000000 GHz Stop Freq 5.34000000 GHz CF Step 4.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

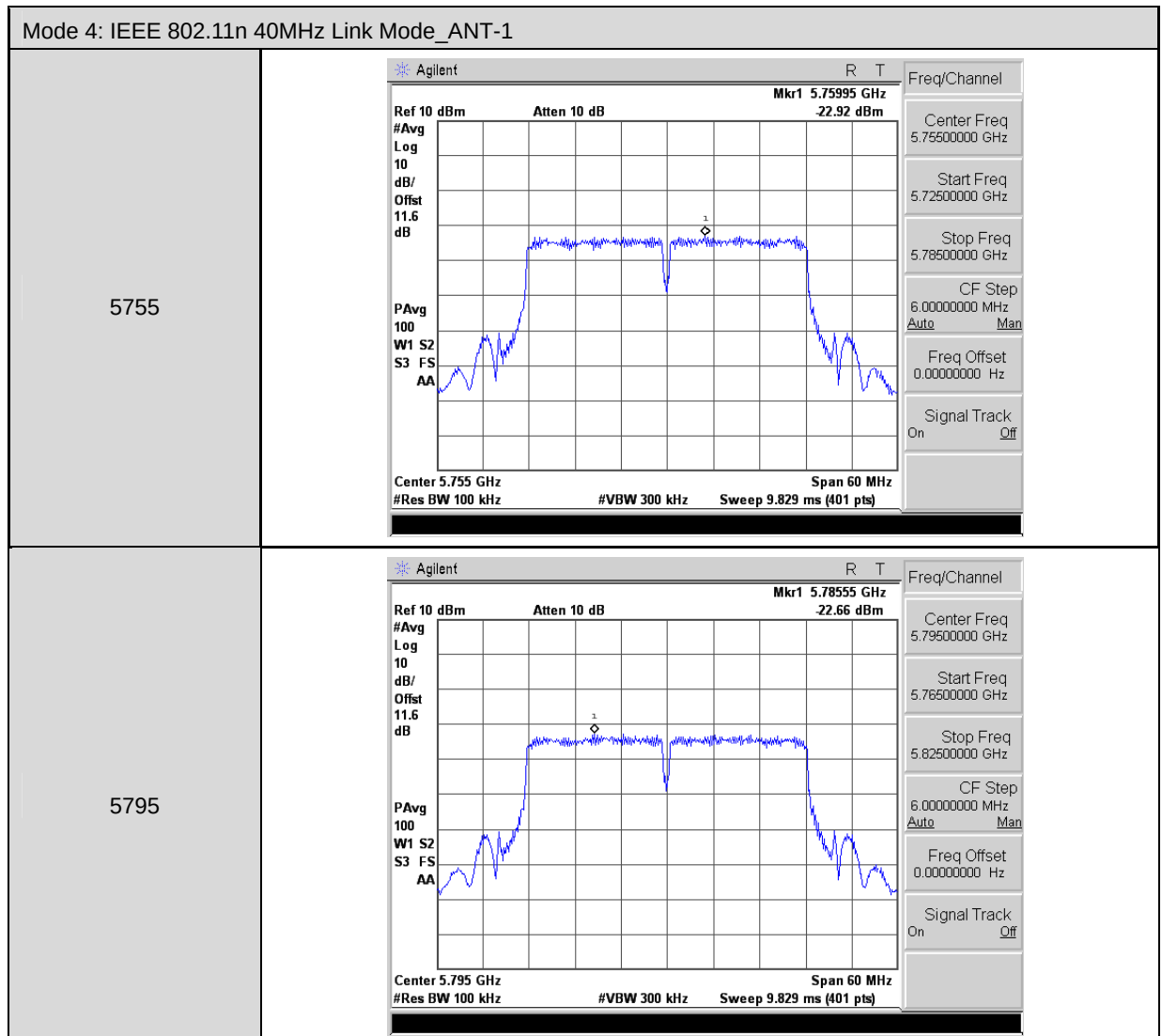
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5500	
5560	
5700	

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5745	
5785	
5825	





Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5510	
5550	
5670	

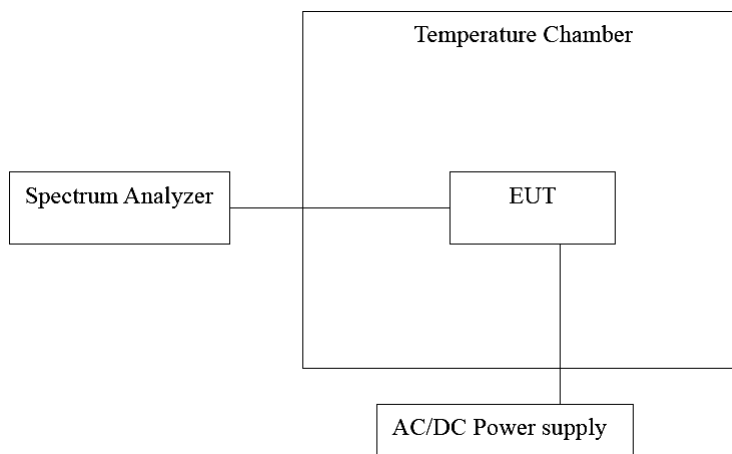


10 Frequency Stability Measurement

10.1. Limit

The frequency tolerance of the carrier signal shall be maintained within the band of operation frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

10.2. Test Setup



10.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4408B	MY45107753	07/27/2015	(1)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	04/27/2015	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

10.4. Test Procedure

1. The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

10.5. Test Result

Temperature Variations

Model Number	P0510					
Test Item	Frequency Stability					
Date of Test	08/28/2015					
Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	0	120	5200.0835	83500	16.058	Pass
	10		5200.0198	19800	3.808	Pass
	20		5200.0075	7500	1.442	Pass
	30		5199.9921	-7900	-1.519	Pass
	40		5199.9244	-75600	-14.538	Pass
	45		5199.9352	-64800	-12.462	Pass
5280 MHz	0	120	5280.0423	42300	8.011	Pass
	10		5280.0244	24400	4.621	Pass
	20		5280.0031	3100	0.587	Pass
	30		5279.9063	-93700	-17.746	Pass
	40		5279.9791	-20900	-3.958	Pass
	45		5279.9004	-99600	-18.864	Pass
5560 MHz	0	120	5560.0709	70900	12.752	Pass
	10		5560.0731	73100	13.147	Pass
	20		5559.9994	-600	-0.108	Pass
	30		5559.9017	-98300	-17.680	Pass
	40		5559.9175	-82500	-14.838	Pass
	45		5559.9814	-18600	-3.345	Pass
5785 MHz	0	120	5785.0124	12400	2.143	Pass
	10		5785.0601	60100	10.389	Pass
	20		5785.0074	7400	1.279	Pass
	30		5784.9202	-79800	-13.794	Pass
	40		5784.9584	-41600	-7.191	Pass
	45		5784.9514	-48600	-8.401	Pass

Note: The manufacturer's frequency stability specification is better than 20ppm.

Voltage Variations

Model Number	P0510					
Test Item	Frequency Stability					
Date of Test	08/28/2015					
Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	20	138.00	5200.0338	33800	6.500	Pass
		120.00	5200.0075	7500	1.442	Pass
		102.00	5199.9409	-59100	-11.365	Pass
5280 MHz	20	138.00	5280.0320	32000	6.061	Pass
		120.00	5280.0031	3100	0.587	Pass
		102.00	5279.9528	-47200	-8.939	Pass
5560 MHz	20	138.00	5560.0097	9700	1.745	Pass
		120.00	5559.9994	-600	-0.108	Pass
		102.00	5559.9448	-55200	-9.928	Pass
5785 MHz	20	138.00	5785.0693	69300	11.979	Pass
		120.00	5785.0074	7400	1.279	Pass
		102.00	5784.9899	-10100	-1.746	Pass

Note: The manufacturer's frequency stability specification is better than 20ppm.

11 Antenna Requirement

11.1. Limit

For intentional device, according to 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.

And According to 15.407 (a), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Antenna Connector Construction

The antenna used in this product is FPC Antenna. And the maximum Gain of this antenna is 2 dBi.