



EN 301 893 Test Report

Product Name : WIRELESS-ABGN 3X3 NETWORK MINI
PCIE ADAPTER
Model No. : WLE350NX

Applicant : Compex Systems Pte Ltd
Address : 135 Joo Seng Road, #08-01 PM Industrial Building
Singapore 368363

Date of Receipt : 04/02/2013
Test Date : 05/02/2013~08/04/2013
Issued Date : 08/04/2013
Report No. : 132S008R-RF-CE-P14V02
Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date : 08/04/2013

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ADAPTER

Applicant : Compex Systems Pte Ltd

Address : 135 Joo Seng Road, #08-01 PM Industrial Building
Singapore 368363

Manufacturer : Compex Systems Pte Ltd

Address : 135 Joo Seng Road, #08-01 PM Industrial Building
Singapore 368363

Model No. : WLE350NX

EUT Voltage : DC: 3.3V

Brand Name : COMPEX

Applicable Standard : ETSI EN 301 893 V1.7.1 (2012-06)

Test Result : Complied

Performed Location : Suzhou EMC Laboratory
No.99 Hongye Rd., Suzhou Industrial Park Loufeng
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Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	:	BSMI, NCC, TAF
Germany	:	TUV Rheinland
Norway	:	Nemko, DNV
USA	:	FCC, NVLAP
Japan	:	VCCI
China	:	CNAS

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site :<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :
<http://www.quietek.com/>

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1. General Information

1.1. EUT Description

Product Name	WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER
Brand Name	COMPEX
Model No.	WLE350NX
Working Voltage	DC 3.3V
Frequency Range	802.11a/n(20MHz): 5180 - 5320 MHz, 5500 - 5700 MHz 802.11n(40MHz): 5190 - 5310 MHz, 5510 - 5670 MHz
Channel Number	802.11a/n(20MHz): 19 802.11n(40MHz): 9
Type of Modulation	802.11a/n: OFDM
Data Rate	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 450 Mbps
Channel Control	Auto
Antenna Delivery	3*Tx + 3*Rx
Antenna Type	Reference to Antenna List
Peak Antenna Gain	Reference to Antenna List

For 5.0GHz Band

802.11a/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
52	5260 MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500 MHz	104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz	N/A	N/A

802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz	62	5310 MHz
102	5510 MHz	110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	N/A	N/A	N/A	N/A	N/A	N/A

802.11a/b/g/n Antenna List

Antenna	Manufacturer	Peak Gain
Panel Antenna	A*STAR Institute for Infocomm Research	3dBi for 2.4GHz, 5dBi for 5GHz
Dipole Antenna 1#	SmartAnt Telecom Co., Ltd.	4.5dBi for 2.4GHz, 7dBi for 5GHz
Dipole Antenna 2#	Kunshan Wavelink Electronic Co., Ltd.	2dBi for 2.4GHz and 5GHz

Power Parameter Value of the test software

Test Mode	Test Channel	Ant0	Ant1	Ant2	Ant0+1	Ant0+1+2
802.11a	5180	2.0	2.0	3.0	×	×
	5320	2.0	2.0	4.0	×	×
	5500	10.0	10.0	8.5	×	×
	5700	8.5	9.5	9.5	×	×
802.11n(20MHz)	5180	2.0	2.0	3.0	1.0	1.5
	5320	2.0	2.5	4.0	2.5	1.5
	5500	9.5	9.5	8.5	8.0	8.0
	5700	8.5	9.5	9.5	6.5	6.5
802.11n(40MHz)	5190	2.0	2.0	2.5	1.0	2.5
	5310	2.0	1.5	3.5	2.5	2.5
	5510	9.0	10.0	8.5	8.0	9.5
	5670	8.0	9.5	9.5	6.0	8.0

The test mode of the test software can support.

Test Mode	Ant1	Ant2	Ant3	Ant1+2	Ant1+2+3
802.11a	√	√	√	×	×
802.11n(20MHz)	√	√	√	√	√
802.11n(40MHz)	√	√	√	√	√

1.2. Mode of Operation

Quietek 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: Transmit by 802.11a
Mode 2: Transmit by 802.11n (20MHz)
Mode 3: Transmit by 802.11n (40MHz)
Mode 4: Receive by 802.11n (20MHz)
Mode 5: Receive by 802.11n (40MHz)

Note:

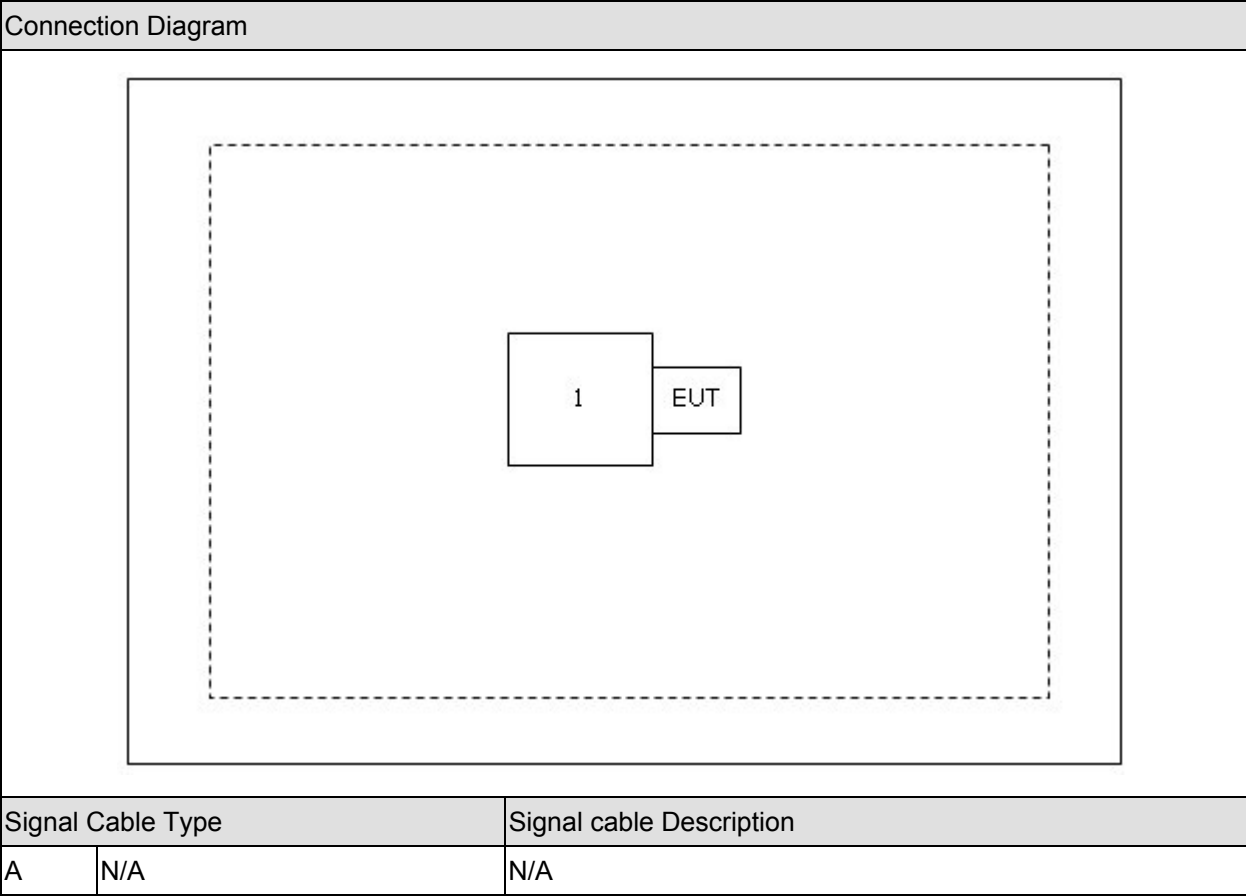
1. For portable device, radiated spurious emission was verified over X, Y, Z axis, and shown the worst case on this report.
2. The extreme test condition for voltage and temperature was declared by the manufacturer.

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	DELL	E520	N/A	Non-Shielded, 1.8m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Run the RF test software "Art2", and set the test mode and channel, then press OK to start continue Transmit or receive.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

Performed Test Item	Normative References	Test Performed	Deviation
Carrier Frequencies	ETSI EN 301 893 V1.7.1 (2012-06)	Yes	No
Occupied Channel Bandwidth	ETSI EN 301 893 V1.7.1 (2012-06)	Yes	No
RF Output Power, Transmit Power Control (TPC) and Power Density	ETSI EN 301 893 V1.7.1 (2012-06)	Yes	No
Transmitter Unwanted Emissions Outside the 5GHz RLAN Bands	ETSI EN 301 893 V1.7.1 (2012-06)	Yes	No
Transmitter Unwanted Emissions Within the 5GHz RLAN Bands	ETSI EN 301 893 V1.7.1 (2012-06)	Yes	No
Receiver Spurious Emissions	ETSI EN 301 893 V1.7.1 (2012-06)	Yes	No
Dynamic Frequency Selection (DFS)	ETSI EN 301 893 V1.7.1 (2012-06)	Yes	No
Adaptivity (Channel Access Mechanism)	ETSI EN 301 893 V1.7.1 (2012-06)	Yes	No

Note: The requirement of User Access Restrictions for DFS Controls shall be implemented by manufacture.

2.2. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
RF Power Conducted	$\pm 1.5\text{dB}$
RF Power Radiated	$\pm 6\text{dB}$
Spurious Emissions, Conducted	$\pm 3\text{dB}$
Spurious Emissions, Radiated	$\pm 6\text{dB}$
Humidity	$\pm 5\%$
Temperature	$\pm 1^\circ\text{C}$
Time	$\pm 10\%$

2.3. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	0-40	25
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

3. Carrier Frequencies

3.1. Test Equipment

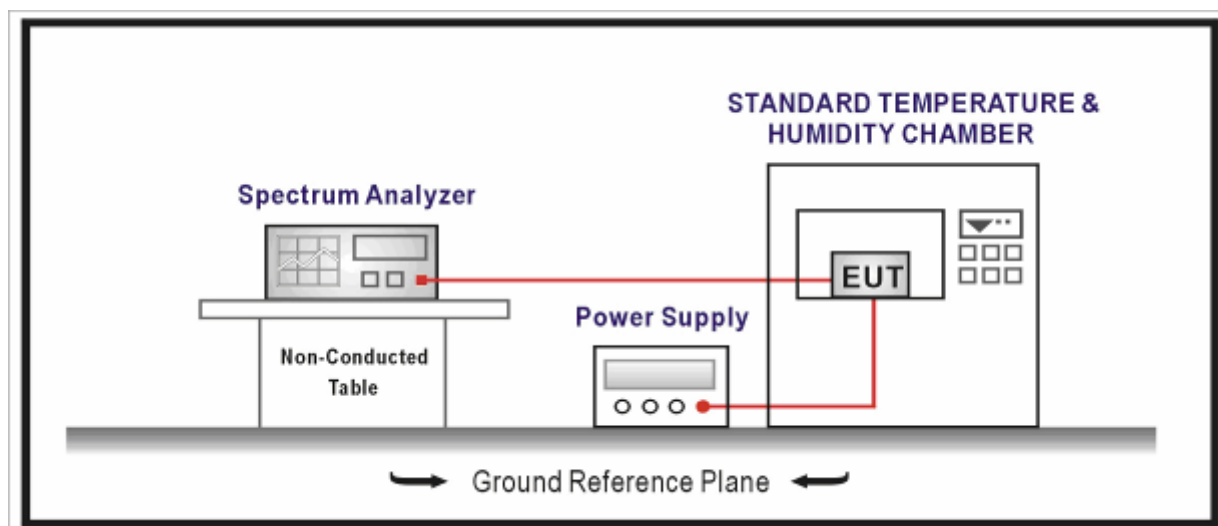
Carrier Frequencies /TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.03.30
AC Power Supply	IDRC	CF-500TP	979422	2013.09.17
Programmable Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2014.01.10
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2013.05.07

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup

For Conducted Measurement



3.3. Limit

The actual centre frequency for any given channel declared by the manufacturer shall be maintained within the range $f_c \pm 20\text{ppm}$.

3.4. Test Procedure

Refer to ETSI EN 301 893 V1.7.1 (2012-06) Clause 5.3.2

3.5. Test Result

Product	:	WLE350NX
Test Item	:	Carrier Frequencies
Test Site	:	TR-8
Test Mode	:	Mode: Carrier Wave

Test Conditions		Frequency (MHz)	Measured Carrier Frequency (MHz)	ΔF (ppm)	Limit (ppm)
Tnom (25°C)	Vnom (AC 230V)	5180.000000	5179.974866	4.85	±20
Tmax (40°C)	Vmax (AC 253V)	5180.000000	5179.974543	4.91	±20
Tmax (40°C)	Vmin (AC 207V)	5180.000000	5179.986213	2.66	±20
Tmin (0°C)	Vmax (AC 253V)	5180.000000	5179.975423	4.74	±20
Tmin (0°C)	Vmin (AC 207V)	5180.000000	5179.973632	5.09	±20

4. Occupied Channel Bandwidth

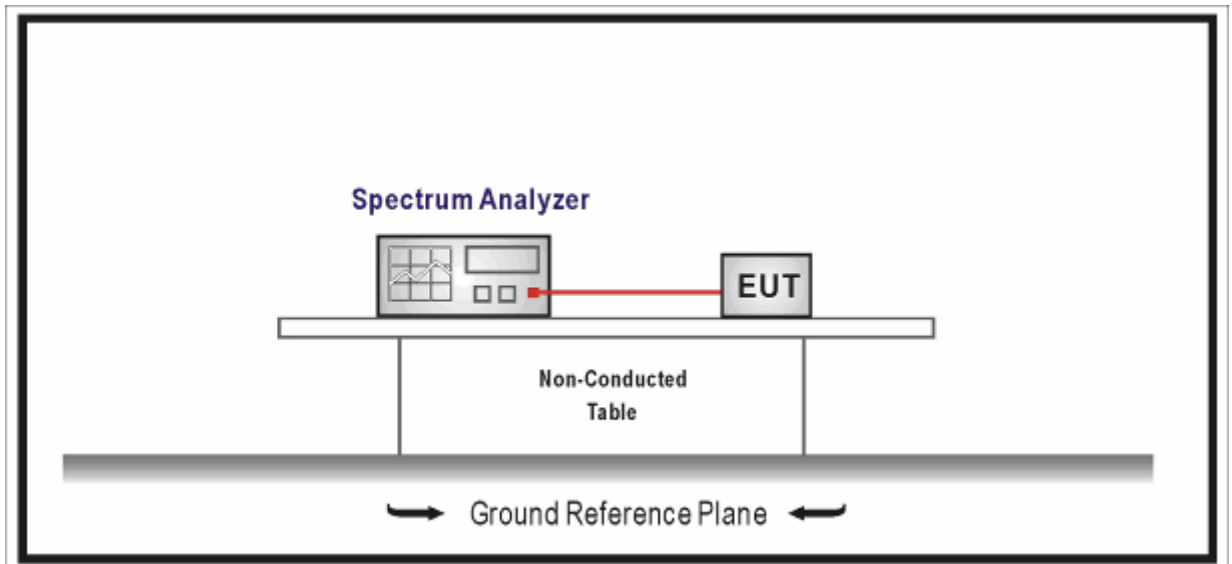
4.1. Test Equipment

Occupied Channel Bandwidth / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2014.01.11

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup



4.3. Limit

The Nominal Channel Bandwidth shall be at least 5 MHz at all times.

The Occupied Channel Bandwidth shall be between 80 % and 100 % of the declared Nominal Channel Bandwidth. In case of smart antenna systems (devices with multiple transmit chains) each of the transmit chains shall meet this requirement.

NOTE: During an established communication, a device is allowed to operate temporarily in a mode where its Occupied Channel Bandwidth may be reduced to as low as 40 % of its Nominal Channel Bandwidth with a minimum of 4 MHz.

4.4. Test Procedure

Refer to ETSI EN 301 893 V1.7.1 (2012-06) Clause 5.3.3

4.5. Test Result

Product	:	WLE350NX
Test Item	:	Occupied Channel Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 0)

Frequency (MHz)	Occupied Channel Bandwidth (MHz)	Limit (MHz)	Declared Nominal Channel Bandwidth (MHz)	Occupied Channel Bandwidth (%)	Limit (%)
5180	16.41	16~20	20	82.05	80 - 100
5320	16.41	16~20	20	82.05	80 - 100
5500	16.41	16~20	20	82.05	80 - 100
5700	16.41	16~20	20	82.05	80 - 100

Product	:	WLE350NX
Test Item	:	Occupied Channel Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz)(Chain 0)

Frequency (MHz)	Occupied Channel Bandwidth (MHz)	Limit (MHz)	Declared Nominal Channel Bandwidth (MHz)	Occupied Channel Bandwidth (%)	Limit (%)
5180	17.61	16~20	20	88.05	80 - 100
5320	17.61	16~20	20	88.05	80 - 100
5500	17.62	16~20	20	88.10	80 - 100
5700	17.62	16~20	20	88.10	80 - 100

Product	:	WLE350NX
Test Item	:	Occupied Channel Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(40MHz)(Chain 0)

Frequency (MHz)	Occupied Channel Bandwidth (MHz)	Limit (MHz)	Declared Nominal Channel Bandwidth (MHz)	Occupied Channel Bandwidth (%)	Limit (%)
5190	36.19	32~40	40	90.48	80 - 100
5310	36.19	32~40	40	90.48	80 - 100
5510	36.21	32~40	40	90.53	80 - 100
5670	36.19	32~40	40	90.48	80 - 100

5. RF Output Power, Transmit Power Control (TPC) and Power Density

5.1. Test Equipment

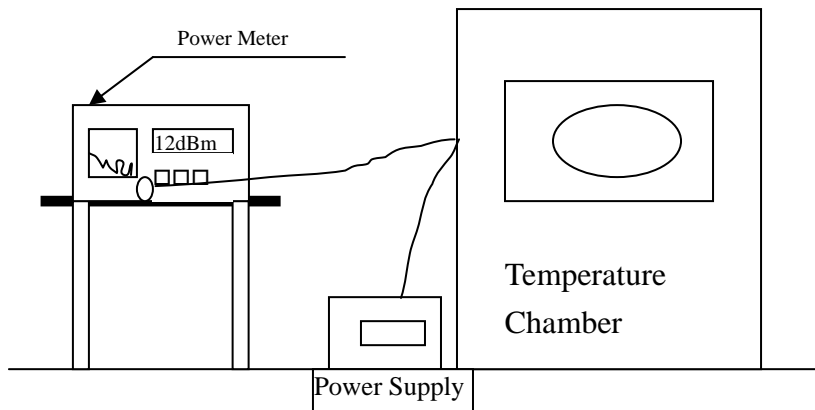
RF Output Power, Transmit Power Control (TPC) and Power Density / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
AC Power Supply	IDRC	CF-500TP	979422	2013.09.17
Programmable Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2014.01.10
Temperature/Humidity Meter	Zhicheng	ZC1-2	TR8-TH	2013.05.07

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup

Conducted Measurement



5.3. Limit

RF Output Power and Power density at the Highest Power Level

TPC is not required for channels whose nominal bandwidth falls completely within the band 5150 MHz to 5 250 MHz.

For devices with TPC, the RF output power and the power density when configured to operate at the highest stated power level of the TPC range shall not exceed the levels given in following table.

Devices are allowed to operate without TPC. See table for applicable limits in this case.

Mean EIRP limits for RF Output Power and Power Density at the Highest Power Level				
Frequency Range	Mean EIRP Limit [dBm]		Mean EIRP Density Limit [dBm/MHz]	
	with TPC	without TPC	with TPC	without TPC
5150 MHz to 5350 MHz	23	20/23 (see note 1)	10	7/10 (see note 2)
5470 MHz to 5725 MHz	30 (see note 3)	27 (see note 3)	17 (see note 3)	14 (see note 3)

NOTE 1: The applicable limit is 20 dBm, except for transmissions whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz, in which case the applicable limit is 23 dBm.

NOTE 2: The applicable limit is 7 dBm/MHz, except for transmissions whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz, in which case the applicable limit is 10 dBm/MHz.

NOTE 3: Slave devices without a Radar Interference Detection function shall comply with the limits for the band 5 250 MHz to 5 350 MHz.

RF Output Power at the Lowest Power Level of the TPC Range

For devices using TPC, the RF output power during a transmission burst when configured to operate at the lowest stated power level of the TPC range shall not exceed the levels given in following table. For devices without TPC, the limits in table do not apply.

Mean EIRP Limits for RF Output Power at the Lowest Power Level of the TPC Range	
Frequency Range	Mean EIRP [dBm]
5250 MHz to 5350 MHz	17
5470 MHz to 5725 MHz	24 (see note)

Note: Slave devices without a Radar Interference Detection function shall comply with the limits for the band 5250 MHz to 5350 MHz.

5.4. Test Procedure

Refer to ETSI EN 301 893 V1.7.1 (2012-06) Clause 5.3.4

5.5. Test Result

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 0)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5180	13.93	21.47	23
		5320	13.92	21.46	23
		5500	20.93	28.47	30
		5700	20.93	28.47	30
Tmax (40°C)	Vmax (AC 253V)	5180	13.23	20.77	23
		5320	13.52	21.06	23
		5500	20.73	28.27	30
		5700	20.63	28.17	30
Tmax (40°C)	Vmin (AC 207V)	5180	13.21	20.75	23
		5320	13.49	21.03	23
		5500	20.71	28.25	30
		5700	20.58	28.12	30
Tmin (0°C)	Vmax (AC 253V)	5180	14.73	22.27	23
		5320	14.62	22.16	23
		5500	21.63	29.17	30
		5700	21.73	29.27	30
Tmin (0°C)	Vmin (AC 207V)	5180	14.71	22.25	23
		5320	14.59	22.13	23
		5500	21.61	29.15	30
		5700	21.68	29.22	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5180	14.03	21.57	23
		5320	13.71	21.25	23
		5500	20.51	28.05	30
		5700	20.66	28.20	30
Tmax (40°C)	Vmax (AC 253V)	5180	13.73	21.27	23
		5320	13.21	20.75	23
		5500	20.31	27.85	30
		5700	20.46	28.00	30
Tmax (40°C)	Vmin (AC 207V)	5180	13.72	21.26	23
		5320	13.19	20.73	23
		5500	20.28	27.82	30
		5700	20.43	27.97	30
Tmin (0°C)	Vmax (AC 253V)	5180	14.83	22.37	23
		5320	14.41	21.95	23
		5500	21.21	28.75	30
		5700	21.46	29.00	30
Tmin (0°C)	Vmin (AC 207V)	5180	14.82	22.36	23
		5320	14.39	21.93	23
		5500	21.19	28.73	30
		5700	21.44	28.98	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5180	14.25	21.79	23
		5320	13.82	21.36	23
		5500	20.65	28.19	30
		5700	20.32	27.86	30
Tmax (40°C)	Vmax (AC 253V)	5180	13.65	21.19	23
		5320	13.22	20.76	23
		5500	20.45	27.99	30
		5700	20.12	27.66	30
Tmax (40°C)	Vmin (AC 207V)	5180	13.64	21.18	23
		5320	13.21	20.75	23
		5500	20.43	27.97	30
		5700	20.11	27.65	30
Tmin (0°C)	Vmax (AC 253V)	5180	14.75	22.29	23
		5320	14.42	21.96	23
		5500	21.35	28.89	30
		5700	21.12	28.66	30
Tmin (0°C)	Vmin (AC 207V)	5180	14.73	22.27	23
		5320	14.41	21.95	23
		5500	21.33	28.87	30
		5700	21.11	28.65	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz)(Chain 0)

Antenna Gain = 7dBi Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5180	14.21	21.75	23
		5320	14.16	21.70	23
		5500	20.41	27.95	30
		5700	20.74	28.28	30
Tmax (40°C)	Vmax (AC 253V)	5180	13.61	21.15	23
		5320	13.86	21.40	23
		5500	20.11	27.65	30
		5700	20.44	27.98	30
Tmax (40°C)	Vmin (AC 207V)	5180	13.59	21.13	23
		5320	13.85	21.39	23
		5500	20.08	27.62	30
		5700	20.42	27.96	30
Tmin (0°C)	Vmax (AC 253V)	5180	14.71	22.25	23
		5320	14.76	22.30	23
		5500	21.11	28.65	30
		5700	21.54	29.08	30
Tmin (0°C)	Vmin (AC 207V)	5180	14.69	22.23	23
		5320	14.73	22.27	23
		5500	21.08	28.62	30
		5700	21.52	29.06	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz)(Chain 1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5180	14.22	21.76	23
		5320	13.69	21.23	23
		5500	20.71	28.25	30
		5700	20.72	28.26	30
Tmax (40°C)	Vmax (AC 253V)	5180	13.62	21.16	23
		5320	13.59	21.13	23
		5500	20.41	27.95	30
		5700	20.42	27.96	30
Tmax (40°C)	Vmin (AC 207V)	5180	13.61	21.15	23
		5320	13.58	21.12	23
		5500	20.39	27.93	30
		5700	20.4	27.94	30
Tmin (0°C)	Vmax (AC 253V)	5180	14.72	22.26	23
		5320	14.49	22.03	23
		5500	21.41	28.95	30
		5700	21.52	29.06	30
Tmin (0°C)	Vmin (AC 207V)	5180	14.71	22.25	23
		5320	14.47	22.01	23
		5500	21.39	28.93	30
		5700	21.51	29.05	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz)(Chain 2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5180	14.13	21.67	23
		5320	13.52	21.06	23
		5500	20.52	28.06	30
		5700	20.34	27.88	30
Tmax (40°C)	Vmax (AC 253V)	5180	13.63	21.17	23
		5320	13.42	20.96	23
		5500	20.12	27.66	30
		5700	20.14	27.68	30
Tmax (40°C)	Vmin (AC 207V)	5180	13.61	21.15	23
		5320	13.4	20.94	23
		5500	20.11	27.65	30
		5700	20.13	27.67	30
Tmin (0°C)	Vmax (AC 253V)	5180	14.63	22.17	23
		5320	14.32	21.86	23
		5500	21.22	28.76	30
		5700	21.14	28.68	30
Tmin (0°C)	Vmin (AC 207V)	5180	14.61	22.15	23
		5320	14.31	21.85	23
		5500	21.22	28.76	30
		5700	21.13	28.67	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz)(Chain 0+1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB							
Test Conditions		Frequency (MHz)	Measured Power (Chain 0) (dBm)	Measured Power (Chain 1) (dBm)	Measured Power (Total) (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (AC 230V)	5180	11.51	11.29	14.41	21.95	23
		5320	11.28	11.33	14.32	21.86	23
		5500	17.83	17.68	20.77	28.31	30
		5700	17.92	17.86	20.90	28.44	30
Tmax (40°C)	Vmax (AC 253V)	5180	11.01	10.99	14.01	21.55	23
		5320	10.88	10.93	13.92	21.46	23
		5500	17.43	17.28	20.37	27.91	30
		5700	17.62	17.56	20.60	28.14	30
Tmax (40°C)	Vmin (AC 207V)	5180	10.99	10.97	13.99	21.53	23
		5320	10.87	10.92	13.91	21.45	23
		5500	17.42	17.26	20.35	27.89	30
		5700	17.61	17.53	20.58	28.12	30
Tmin (0°C)	Vmax (AC 253V)	5180	11.91	11.89	14.91	22.45	23
		5320	11.78	11.83	14.82	22.36	23
		5500	18.43	18.28	21.37	28.91	30
		5700	18.42	18.36	21.40	28.94	30
Tmin (0°C)	Vmin (AC 207V)	5180	11.9	11.88	14.90	22.44	23
		5320	11.77	11.81	14.80	22.34	23
		5500	18.41	18.27	21.35	28.89	30
		5700	18.41	18.34	21.39	28.93	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz)(Chain 0+1+2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB								
Test Conditions		Frequency (MHz)	Measured Power (Chain 0) (dBm)	Measured Power (Chain 1) (dBm)	Measured Power (Chain 2) (dBm)	Measured Power (Total) (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5180	7.53	7.68	7.74	12.42	19.96	23
		5320	7.56	7.47	7.46	12.27	19.81	23
		5500	14.21	14.14	14.16	18.94	26.48	30
		5700	14.04	14.12	7.46	17.54	25.08	30
Tmax (40°C)	Vmax (AC 253V)	5180	7.23	7.38	7.44	12.12	19.66	23
		5320	7.06	6.97	6.96	11.77	19.31	23
		5500	13.51	13.44	13.46	18.24	25.78	30
		5700	13.44	13.52	6.86	16.94	24.48	30
Tmax (40°C)	Vmin (AC 207V)	5180	7.22	7.39	7.43	12.12	19.66	23
		5320	7.05	6.93	6.94	11.74	19.28	23
		5500	13.5	13.42	13.48	18.24	25.78	30
		5700	13.43	13.51	6.84	16.93	24.47	30
Tmin (0°C)	Vmax (AC 253V)	5180	8.03	8.18	8.24	12.92	20.46	23
		5320	8.16	8.07	8.06	12.87	20.41	23
		5500	14.91	14.84	14.86	19.64	27.18	30
		5700	14.64	14.72	8.06	18.14	25.68	30
Tmin (0°C)	Vmin (AC 207V)	5180	8.01	8.13	8.22	12.89	20.43	23
		5320	8.14	8.05	8.04	12.85	20.39	23
		5500	14.9	14.82	14.85	19.63	27.17	30
		5700	14.62	14.71	8.04	18.12	25.66	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(40MHz)(Chain 0)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5190	14.03	21.57	23
		5310	14.14	21.68	23
		5510	20.55	28.09	30
		5670	20.91	28.45	30
Tmax (40°C)	Vmax (AC 253V)	5190	13.63	21.17	23
		5310	13.54	21.08	23
		5510	20.05	27.59	30
		5670	20.61	28.15	30
Tmax (40°C)	Vmin (AC 207V)	5190	13.62	21.16	23
		5310	13.52	21.06	23
		5510	20.03	27.57	30
		5670	20.59	28.13	30
Tmin (0°C)	Vmax (AC 253V)	5190	14.53	22.07	23
		5310	14.54	22.08	23
		5510	21.15	28.69	30
		5670	21.41	28.95	30
Tmin (0°C)	Vmin (AC 207V)	5190	14.52	22.06	23
		5310	14.53	22.07	23
		5510	21.14	28.68	30
		5670	21.4	28.94	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(40MHz)(Chain 1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5190	14.44	21.98	23
		5310	13.85	21.39	23
		5510	21.02	28.56	30
		5670	20.73	28.27	30
Tmax (40°C)	Vmax (AC 253V)	5190	14.04	21.58	23
		5310	13.35	20.89	23
		5510	20.32	27.86	30
		5670	20.43	27.97	30
Tmax (40°C)	Vmin (AC 207V)	5190	14.02	21.56	23
		5310	13.33	20.87	23
		5510	20.31	27.85	30
		5670	20.42	27.96	30
Tmin (0°C)	Vmax (AC 253V)	5190	14.94	22.48	23
		5310	14.35	21.89	23
		5510	21.42	28.96	30
		5670	21.23	28.77	30
Tmin (0°C)	Vmin (AC 207V)	5190	14.92	22.46	23
		5310	14.34	21.88	23
		5510	21.41	28.95	30
		5670	21.21	28.75	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(40MHz)(Chain 2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5190	14.24	21.78	23
		5310	13.97	21.51	23
		5510	20.77	28.31	30
		5670	20.72	28.26	30
Tmax (40°C)	Vmax (AC 253V)	5190	13.74	21.28	23
		5310	13.57	21.11	23
		5510	20.17	27.71	30
		5670	20.32	27.86	30
Tmax (40°C)	Vmin (AC 207V)	5190	13.73	21.27	23
		5310	13.55	21.09	23
		5510	20.16	27.70	30
		5670	20.31	27.85	30
Tmin (0°C)	Vmax (AC 253V)	5190	14.74	22.28	23
		5310	14.47	22.01	23
		5510	21.17	28.71	30
		5670	21.22	28.76	30
Tmin (0°C)	Vmin (AC 207V)	5190	14.72	22.26	23
		5310	14.46	22.00	23
		5510	21.15	28.69	30
		5670	21.21	28.75	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(40MHz)(Chain 0+1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB							
Test Conditions		Frequency (MHz)	Measured Power (Chain 0) (dBm)	Measured Power (Chain 1) (dBm)	Measured Power (Total) (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (AC 230V)	5190	11.33	11.39	14.37	21.91	23
		5310	11.39	11.34	14.38	21.92	23
		5510	17.93	17.91	20.93	28.47	30
		5670	18.07	17.79	20.94	28.48	30
Tmax (40°C)	Vmax (AC 253V)	5190	11.32	11.38	14.36	21.90	23
		5310	11.37	11.33	14.36	21.90	23
		5510	17.92	17.89	20.92	28.46	30
		5670	18.05	17.78	20.93	28.47	30
Tmax (40°C)	Vmin (AC 207V)	5190	11.31	11.33	14.33	21.87	23
		5310	11.35	11.32	14.35	21.89	23
		5510	17.91	17.86	20.90	28.44	30
		5670	18.03	17.76	20.91	28.45	30
Tmin (0°C)	Vmax (AC 253V)	5190	11.83	11.89	14.87	22.41	23
		5310	11.79	11.74	14.78	22.32	23
		5510	18.53	18.51	21.53	29.07	30
		5670	18.67	18.39	21.54	29.08	30
Tmin (0°C)	Vmin (AC 207V)	5190	11.81	11.87	14.85	22.39	23
		5310	11.78	11.73	14.77	22.31	23
		5510	18.52	18.53	21.54	29.08	30
		5670	18.63	18.38	21.52	29.06	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Equivalent Isotropic Radiated Power
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(40MHz) (Chain 0+1+2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB								
Test Conditions		Frequency (MHz)	Measured Power (Chain 0) (dBm)	Measured Power (Chain 1) (dBm)	Measured Power (Chain 2) (dBm)	Measured Power (Total) (dBm)	EIRP (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5180	9.83	9.87	9.81	14.61	22.15	23
		5320	9.57	9.65	9.64	14.39	21.93	23
		5500	16.23	16.06	16.17	20.93	28.47	30
		5700	16.12	15.99	16.33	20.92	28.46	30
Tmax (40°C)	Vmax (AC 253V)	5180	9.23	9.27	9.21	14.01	21.55	23
		5320	9.27	9.35	9.34	14.09	21.63	23
		5500	16.03	15.86	15.97	20.73	28.27	30
		5700	16.02	15.79	16.13	20.75	28.29	30
Tmax (40°C)	Vmin (AC 207V)	5180	9.21	9.26	9.19	13.99	21.53	23
		5320	9.25	9.34	9.33	14.08	21.62	23
		5500	16.02	15.85	15.95	20.71	28.25	30
		5700	16.01	15.78	16.11	20.74	28.28	30
Tmin (0°C)	Vmax (AC 253V)	5180	10.13	10.17	10.11	14.91	22.45	23
		5320	10.07	10.15	10.14	14.89	22.43	23
		5500	16.93	16.76	16.87	21.63	29.17	30
		5700	16.72	16.59	16.93	21.52	29.06	30
Tmin (0°C)	Vmin (AC 207V)	5180	10.12	10.16	10.12	14.90	22.44	23
		5320	10.06	10.13	10.15	14.88	22.42	23
		5500	16.92	16.74	16.86	21.61	29.15	30
		5700	16.71	16.56	16.91	21.50	29.04	30

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 0)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5320	1.93	9.47	17
		5500	0.03	7.57	24
		5700	1.97	9.51	24
Tmax (40°C)	Vmax (AC 253V)	5320	1.43	8.97	17
		5500	-0.37	7.17	24
		5700	1.37	8.91	24
Tmax (40°C)	Vmin (AC 207V)	5320	1.33	8.87	17
		5500	-0.47	7.07	24
		5700	1.27	8.81	24
Tmin (0°C)	Vmax (AC 253V)	5320	2.33	9.87	17
		5500	0.53	8.07	24
		5700	2.57	10.11	24
Tmin (0°C)	Vmin (AC 207V)	5320	2.23	9.77	17
		5500	0.43	7.97	24
		5700	2.47	10.01	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5320	0.03	7.57	17
		5500	-0.42	7.12	24
		5700	-0.47	7.07	24
Tmax (40°C)	Vmax (AC 253V)	5320	-0.47	7.07	17
		5500	-0.82	6.72	24
		5700	-1.07	6.47	24
Tmax (40°C)	Vmin (AC 207V)	5320	-0.57	6.97	17
		5500	-0.92	6.62	24
		5700	-1.17	6.37	24
Tmin (0°C)	Vmax (AC 253V)	5320	0.43	7.97	17
		5500	0.08	7.62	24
		5700	0.13	7.67	24
Tmin (0°C)	Vmin (AC 207V)	5320	0.33	7.87	17
		5500	-0.02	7.52	24
		5700	0.03	7.57	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5320	-0.76	6.78	17
		5500	-1.24	6.3	24
		5700	-1.78	5.76	24
Tmax (40°C)	Vmax (AC 253V)	5320	-1.26	6.28	17
		5500	-1.64	5.9	24
		5700	-2.38	5.16	24
Tmax (40°C)	Vmin (AC 207V)	5320	-1.36	6.18	17
		5500	-1.74	5.8	24
		5700	-2.48	5.06	24
Tmin (0°C)	Vmax (AC 253V)	5320	-0.36	7.18	17
		5500	-0.74	6.8	24
		5700	-1.18	6.36	24
Tmin (0°C)	Vmin (AC 207V)	5320	-0.46	7.08	17
		5500	-0.84	6.7	24
		5700	-1.28	6.26	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz)(Chain 0)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5320	1.32	8.86	17
		5500	-0.34	7.2	24
		5700	1.53	9.07	24
Tmax (40°C)	Vmax (AC 253V)	5320	0.82	8.36	17
		5500	-0.74	6.8	24
		5700	0.93	8.47	24
Tmax (40°C)	Vmin (AC 207V)	5320	0.72	8.26	17
		5500	-0.84	6.7	24
		5700	0.83	8.37	24
Tmin (0°C)	Vmax (AC 253V)	5320	1.72	9.26	17
		5500	0.16	7.7	24
		5700	2.13	9.67	24
Tmin (0°C)	Vmin (AC 207V)	5320	1.62	9.16	17
		5500	0.06	7.6	24
		5700	2.03	9.57	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz)(Chain 1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5320	-0.28	7.26	17
		5500	-0.33	7.21	24
		5700	-0.58	6.96	24
Tmax (40°C)	Vmax (AC 253V)	5320	-0.78	6.76	17
		5500	-0.73	6.81	24
		5700	-1.18	6.36	24
Tmax (40°C)	Vmin (AC 207V)	5320	-0.88	6.66	17
		5500	-0.83	6.71	24
		5700	-1.28	6.26	24
Tmin (0°C)	Vmax (AC 253V)	5320	0.12	7.66	17
		5500	0.17	7.71	24
		5700	0.02	7.56	24
Tmin (0°C)	Vmin (AC 207V)	5320	0.02	7.56	17
		5500	0.07	7.61	24
		5700	-0.08	7.46	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz)(Chain 2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5320	-2.14	5.4	17
		5500	-2.31	5.23	24
		5700	-1.62	5.92	24
Tmax (40°C)	Vmax (AC 253V)	5320	-2.64	4.9	17
		5500	-2.71	4.83	24
		5700	-2.22	5.32	24
Tmax (40°C)	Vmin (AC 207V)	5320	-2.74	4.8	17
		5500	-2.81	4.73	24
		5700	-2.32	5.22	24
Tmin (0°C)	Vmax (AC 253V)	5320	-1.74	5.8	17
		5500	-1.81	5.73	24
		5700	-1.02	6.52	24
Tmin (0°C)	Vmin (AC 207V)	5320	-1.84	5.7	17
		5500	-1.91	5.63	24
		5700	-1.12	6.42	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz) (Chain 0+1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB							
Test Conditions		Frequency (MHz)	Measured Power (Chain 0) (dBm)	Measured Power (Chain 1) (dBm)	Measured Power (Total) (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5320	0.19	-0.77	2.75	10.29	17
		5500	-1.44	-1.03	1.78	9.32	24
		5700	0.39	-1.22	2.67	10.21	24
Tmax (40°C)	Vmax (AC 253V)	5320	-0.31	-1.27	2.25	9.79	17
		5500	-2.04	-1.63	1.18	8.72	24
		5700	-0.11	-1.72	2.17	9.71	24
Tmax (40°C)	Vmin (AC 207V)	5320	-0.41	-1.37	2.15	9.69	17
		5500	-2.14	-1.73	1.08	8.62	24
		5700	-0.21	-1.82	2.07	9.61	24
Tmin (0°C)	Vmax (AC 253V)	5320	0.69	-0.27	3.25	10.79	17
		5500	-0.84	-0.43	2.38	9.92	24
		5700	0.79	-0.82	3.07	10.61	24
Tmin (0°C)	Vmin (AC 207V)	5320	0.59	-0.37	3.15	10.69	17
		5500	-0.94	-0.53	2.28	9.82	24
		5700	0.69	-0.92	2.97	10.51	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz) (Chain 0+1+2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB								
Test Conditions		Frequency (MHz)	Measured Power (Chain 0) (dBm)	Measured Power (Chain 1) (dBm)	Measured Power (Chain 2) (dBm)	Measured Power (Total) (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5320	-2.43	-2.55	-3.72	1.91	9.45	17
		5500	-1.44	-2.68	-3.45	2.33	9.87	24
		5700	-1.37	-3.01	-3.78	2.17	9.71	24
Tmax (40°C)	Vmax (AC 253V)	5320	-2.93	-3.05	-4.22	1.41	8.95	17
		5500	-2.04	-3.28	-4.05	1.73	9.27	24
		5700	-1.77	-3.41	-4.18	1.77	9.31	24
Tmax (40°C)	Vmin (AC 207V)	5320	-3.03	-3.15	-4.32	1.31	8.85	17
		5500	-2.14	-3.38	-4.15	1.63	9.17	24
		5700	-1.87	-3.51	-4.28	1.67	9.21	24
Tmin (0°C)	Vmax (AC 253V)	5320	-2.03	-2.15	-3.32	2.31	9.85	17
		5500	-1.14	-2.38	-3.15	2.63	10.17	24
		5700	-1.17	-2.81	-3.58	2.37	9.91	24
Tmin (0°C)	Vmin (AC 207V)	5320	-2.13	-2.25	-3.42	2.21	9.75	17
		5500	-1.24	-2.48	-3.25	2.53	10.07	24
		5700	-1.27	-2.91	-3.68	2.27	9.81	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 7: Transmit by 802.11n(40MHz)(Chain 0)

Antenna Gain = 19dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5310	1.26	8.8	17
		5510	-0.32	7.22	24
		5670	1.38	8.92	24
Tmax (40°C)	Vmax (AC 253V)	5310	0.76	8.3	17
		5510	-0.72	6.82	24
		5670	0.78	8.32	24
Tmax (40°C)	Vmin (AC 207V)	5310	0.66	8.2	17
		5510	-0.82	6.72	24
		5670	0.68	8.22	24
Tmin (0°C)	Vmax (AC 253V)	5310	1.66	9.2	17
		5510	0.18	7.72	24
		5670	1.98	9.52	24
Tmin (0°C)	Vmin (AC 207V)	5310	1.56	9.1	17
		5510	0.08	7.62	24
		5670	1.88	9.42	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(40MHz) (Chain 1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5310	0.19	7.73	17
		5510	-0.87	6.67	24
		5670	-0.53	7.01	24
Tmax (40°C)	Vmax (AC 253V)	5310	-0.31	7.23	17
		5510	-1.27	6.27	24
		5670	-1.13	6.41	24
Tmax (40°C)	Vmin (AC 207V)	5310	-0.41	7.13	17
		5510	-1.37	6.17	24
		5670	-1.23	6.31	24
Tmin (0°C)	Vmax (AC 253V)	5310	0.59	8.13	17
		5510	-0.37	7.17	24
		5670	0.07	7.61	24
Tmin (0°C)	Vmin (AC 207V)	5310	0.49	8.03	17
		5510	-0.47	7.07	24
		5670	-0.03	7.51	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(40MHz) (Chain 2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Test Conditions		Frequency (MHz)	Measured Power (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5310	-0.45	7.09	17
		5510	-1.42	6.12	24
		5670	-1.87	5.67	24
Tmax (40°C)	Vmax (AC 253V)	5310	-0.95	6.59	17
		5510	-1.82	5.72	24
		5670	-2.47	5.07	24
Tmax (40°C)	Vmin (AC 207V)	5310	-1.05	6.49	17
		5510	-1.92	5.62	24
		5670	-2.57	4.97	24
Tmin (0°C)	Vmax (AC 253V)	5310	-0.05	7.49	17
		5510	-0.92	6.62	24
		5670	-1.27	6.27	24
Tmin (0°C)	Vmin (AC 207V)	5310	-0.15	7.39	17
		5510	-1.02	6.52	24
		5670	-1.37	6.17	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0+1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB							
Test Conditions		Frequency (MHz)	Measured Power (Chain 0) (dBm)	Measured Power (Chain 1) (dBm)	Measured Power (Total) (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (AC 230V)	5310	0.64	0.47	3.57	11.11	17
		5510	-0.75	-0.54	2.37	9.91	24
		5670	0.31	-0.77	2.81	10.35	24
Tmax (40°C)	Vmax (AC 253V)	5310	0.24	0.07	3.17	10.71	17
		5510	-1.25	-1.04	1.87	9.41	24
		5670	-0.29	-1.37	2.21	9.75	24
Tmax (40°C)	Vmin (AC 207V)	5310	0.14	-0.03	3.07	10.61	17
		5510	-1.35	-1.14	1.77	9.31	24
		5670	-0.19	-1.27	2.31	9.85	24
Tmin (0°C)	Vmax (AC 253V)	5310	1.14	0.97	4.07	11.61	17
		5510	-0.15	0.06	2.97	10.51	24
		5670	0.71	-0.37	3.21	10.75	24
Tmin (0°C)	Vmin (AC 207V)	5310	1.14	0.97	4.07	11.61	17
		5510	-0.45	-0.24	2.67	10.21	24
		5670	0.71	-0.37	3.21	10.75	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	TPC
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(40MHz) (Chain 0+1+2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB								
Test Conditions		Frequency (MHz)	Measured Power (Chain 0) (dBm)	Measured Power (Chain 1) (dBm)	Measured Power (Chain 2) (dBm)	Measured Power (Total) (dBm)	EIRP of TPC (dBm)	Limit (dBm)
Tnom (25°C)	Vnom (AC 230V)	5320	-0.45	0.58	-2.33	4.20	11.74	17
		5500	-1.38	-0.76	-1.48	3.58	11.12	24
		5700	-1.26	-0.73	-2.34	3.38	10.92	24
Tmax (40°C)	Vmax (AC 253V)	5320	-0.95	0.08	-2.83	3.70	11.24	17
		5500	-1.98	-1.36	-2.08	2.98	10.52	24
		5700	-1.66	-1.13	-2.74	2.98	10.52	24
Tmax (40°C)	Vmin (AC 207V)	5320	-1.05	-0.02	-2.93	3.60	11.14	17
		5500	-2.08	-1.46	-2.18	2.88	10.42	24
		5700	-1.76	-1.23	-2.84	2.88	10.42	24
Tmin (0°C)	Vmax (AC 253V)	5320	0.05	1.08	-1.83	4.70	12.24	17
		5500	-0.98	-0.36	-1.08	3.98	11.52	24
		5700	-0.66	-0.13	-1.74	3.98	11.52	24
Tmin (0°C)	Vmin (AC 207V)	5320	-0.05	0.98	-1.93	4.60	12.14	17
		5500	-1.08	-0.46	-1.18	3.88	11.42	24
		5700	-1.06	-0.53	-2.14	3.58	11.12	24

EIRP = Measured Power + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 0)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5180	1.25	N/A	N/A	8.79	10.00
5320	0.78	N/A	N/A	8.32	10.00
5500	7.54	N/A	N/A	15.08	17.00
5700	7.58	N/A	N/A	15.12	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5180	N/A	1.17	N/A	8.71	10.00
5320	N/A	0.68	N/A	8.22	10.00
5500	N/A	6.54	N/A	14.08	17.00
5700	N/A	4.55	N/A	12.09	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5180	N/A	N/A	-0.23	7.31	10.00
5320	N/A	N/A	0.22	7.76	10.00
5500	N/A	N/A	6.05	13.59	17.00
5700	N/A	N/A	7.75	15.29	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n20(Chain 0)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5180	1.16	N/A	N/A	8.70	10.00
5320	0.89	N/A	N/A	8.43	10.00
5500	6.83	N/A	N/A	14.37	17.00
5700	7.29	N/A	N/A	14.83	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n20(Chain 1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5180	N/A	0.58	N/A	8.12	10.00
5320	N/A	0.98	N/A	8.52	10.00
5500	N/A	5.60	N/A	13.14	17.00
5700	N/A	4.01	N/A	11.55	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n20(Chain 2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5180	N/A	N/A	-0.73	6.81	10.00
5320	N/A	N/A	-0.41	7.13	10.00
5500	N/A	N/A	5.69	13.23	17.00
5700	N/A	N/A	7.29	14.83	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n20(Chain 0+1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5180	-0.40	-1.89	N/A	-1.62	10.00
5320	-0.67	-1.04	N/A	-1.39	10.00
5500	2.77	2.00	N/A	1.86	17.00
5700	3.58	0.86	N/A	1.89	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n20(Chain 0+1+2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5180	-2.27	-2.96	-2.68	9.68	10.00
5320	-1.65	-2.74	-2.69	9.98	10.00
5500	1.83	0.46	-1.03	12.89	17.00
5700	1.59	1.24	0.52	13.45	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n40(Chain 0)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5190	-1.83	N/A	N/A	5.71	10.00
5310	-1.80	N/A	N/A	5.74	10.00
5510	3.78	N/A	N/A	11.32	17.00
5670	3.45	N/A	N/A	10.99	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n40(Chain 1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5190	N/A	-1.51	N/A	6.03	10.00
5310	N/A	-2.21	N/A	5.33	10.00
5510	N/A	3.46	N/A	11.00	17.00
5670	N/A	1.35	N/A	8.89	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n40(Chain 2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5190	N/A	N/A	-2.66	4.88	10.00
5310	N/A	N/A	-1.69	5.85	10.00
5510	N/A	N/A	2.32	9.86	17.00
5670	N/A	N/A	3.27	10.81	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n40(Chain 0+1)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5190	-5.44	-5.85	N/A	4.91	10.00
5310	-3.66	-3.43	N/A	7.01	10.00
5510	-0.51	-1.84	N/A	9.43	17.00
5670	-1.2	-3.21	N/A	8.46	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

Product	:	WLE350NX
Test Item	:	Maximum Spectral Power Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n40 (Chain 0+1+2)

Antenna Gain = 7dBi, Duty Cycle = 99%, Cable Loss= 0.5dB					
Frequency (MHz)	Measurement Density (dBm/MHz)			Total Power Density (dBm/MHz)	Limit (dBm/MHz)
	Chain 0	Chain1	Chain2		
5190	-6.20	-6.59	-5.16	6.37	10.00
5310	-6.06	-8.54	-5.74	5.70	10.00
5510	-0.43	-3.68	0.42	11.41	17.00
5670	-0.88	-2.65	-0.45	11.08	17.00

Power Density = Measured Density + Antenna Gain + Test Cable Loss + 10 log (1/Duty Cycle)

6. Transmitter Unwanted Emissions Outside the 5GHz RLAN Bands

6.1. Test Equipment

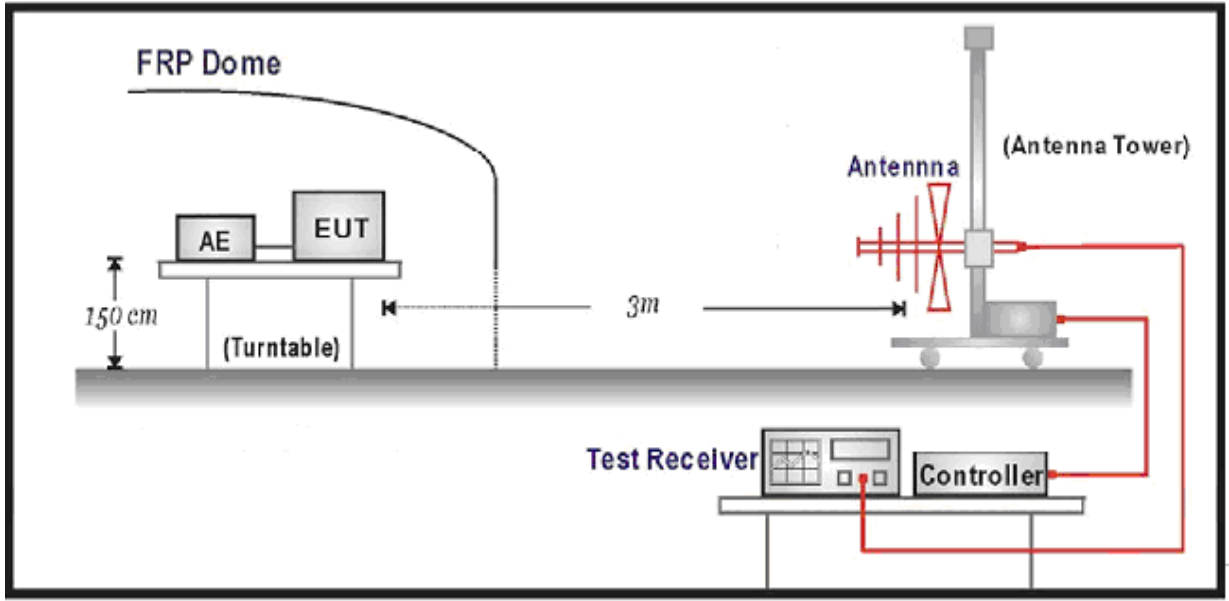
Transmitter Spurious Emissions / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
Spectrum Analyzer	Agilent	E4440A	MY49420184	2014/03/30
PSG Analog S.G.	Agilent	E8257D	MY44321116	2014/03/30
Preamplifier	Agilent	8449B	3008A02597	2014/04/10
Bilog Antenna	Schaffner	CBL6112B	2932	2013/10/15
Half Wave Tuned Dipole Antenna	COM-POWER	AD-100	40137	2013/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2013/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2014/06/08
Filter Banks	Quietek	QTK-FB	AC6-FB	2013/05/04
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2014/01/11

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

6.2. Test Setup

For Radiated Measurement



6.3. Limit

Frequency Range	Maximum Power, ERP	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87.5 MHz	-36 dBm	100 kHz
87.5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 862 MHz	-54 dBm	100 kHz
862 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 5.15 GHz	-30 dBm	1 MHz
5.35 GHz to 5.47 GHz	-30 dBm	1 MHz
5.725 GHz to 26.5 GHz	-30 dBm	1 MHz

6.4. Test Procedure

Refer to ETSI EN 301 893 V1.7.1 (2012-06) Clause 5.3.5

6.5. Test Result

Test by panel antenna

Mode 1: Transmit by 802.11a(Chain 0)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
250.0	H	-71.4	-54	-17.4	PK
258.6	V	-74.2	-54	-20.2	PK
290.7	H	-73.2	-54	-19.2	PK
309.8	V	-73.3	-54	-19.3	PK
10360.0	H	-45.6	-30	-15.6	PK
10360.0	V	-44.1	-30	-14.1	PK
15540.0	H	-44.2	-30	-14.2	PK
15540.0	V	-44.1	-30	-14.1	PK
Channel 64 (5320MHz)					
333.2	H	-66.0	-54	-12.0	PK
355.5	V	-72.0	-54	-18.0	PK
398.0	H	-71.1	-54	-17.1	PK
432.0	V	-70.9	-54	-16.9	PK
10640.0	H	-45.5	-30	-15.5	PK
10640.0	V	-44.6	-30	-14.6	PK
15960.0	H	-45.2	-30	-15.2	PK
15960.0	V	-44.6	-30	-14.6	PK
Channel 100 (5500MHz)					
240.0	H	-68.9	-54	-14.9	PK
249.9	V	-70.9	-54	-16.9	PK
265.5	H	-74.2	-54	-20.2	PK
333.2	V	-64.2	-54	-10.2	PK
11000.0	H	-43.0	-30	-13.0	PK
11000.0	V	-43.6	-30	-13.6	PK
16500.0	H	-42.3	-30	-12.3	PK
16500.0	V	-42.7	-30	-12.7	PK
Channel 140 (5700MHz)					
351.0	H	-69.8	-54	-15.8	PK
365.1	V	-69.1	-54	-15.1	PK
399.7	H	-61.5	-54	-7.5	PK

432.0	V	-69.9	-54	-15.9	PK
11400.0	H	-43.2	-30	-13.2	PK
11400.0	V	-42.9	-30	-12.9	PK
17100.0	H	-43.4	-30	-13.4	PK
17100.0	V	-43.3	-30	-13.3	PK

Mode 1: Transmit by 802.11a(Chain 1)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
240.0	H	-66.7	-54	-12.7	PK
249.2	V	-71.0	-54	-17.0	PK
290.8	H	-72.7	-54	-18.7	PK
331.8	V	-70.3	-54	-16.3	PK
10360.0	H	-44.2	-30	-14.2	PK
10360.0	V	-44.6	-30	-14.6	PK
15540.0	H	-44.3	-30	-14.3	PK
15540.0	V	-44.8	-30	-14.8	PK
Channel 64 (5320MHz)					
355.5	H	-68.6	-54	-14.6	PK
393.2	V	-64.1	-54	-10.1	PK
403.3	H	-74.0	-54	-20.0	PK
432.0	V	-69.0	-54	-15.0	PK
10640.0	H	-45.4	-30	-15.4	PK
10640.0	V	-45.8	-30	-15.8	PK
15960.0	H	-44.5	-30	-14.5	PK
15960.0	V	-44.1	-30	-14.1	PK
Channel 100 (5500MHz)					
240.0	H	-67.2	-54	-13.2	PK
249.9	V	-69.5	-54	-15.5	PK
265.5	H	-71.6	-54	-17.6	PK
333.2	V	-64.4	-54	-10.4	PK
11000.0	H	-44.0	-30	-14.0	PK
11000.0	V	-43.9	-30	-13.9	PK
16500.0	H	-43.3	-30	-13.3	PK

16500.0	V	-42.8	-30	-12.8	PK
Channel 140 (5700MHz)					
366.5	H	-67.5	-54	-13.5	PK
393.2	V	-63.4	-54	-9.4	PK
399.6	H	-64.3	-54	-10.3	PK
432.0	V	-69.7	-54	-15.7	PK
11400.0	H	-43.4	-30	-13.4	PK
11400.0	V	-43.7	-30	-13.7	PK
17100.0	H	-42.4	-30	-12.4	PK
17100.0	V	-42.9	-30	-12.9	PK

Mode 1: Transmit by 802.11a(Chain 2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
133.3	H	-72.2	-54	-18.2	PK
161.7	V	-65.1	-54	-11.1	PK
242.9	H	-67.6	-54	-13.6	PK
290.7	V	-72.8	-54	-18.8	PK
10360.0	H	-45.2	-30	-15.2	PK
10360.0	V	-45.0	-30	-15.0	PK
15540.0	H	-45.1	-30	-15.1	PK
15540.0	V	-44.6	-30	-14.6	PK
Channel 64 (5320MHz)					
331.8	H	-68.9	-54	-14.9	PK
355.4	V	-69.9	-54	-15.9	PK
393.2	H	-64.7	-54	-10.7	PK
433.1	V	-72.4	-54	-18.4	PK
10640.0	H	-45.4	-30	-15.4	PK
10640.0	V	-45.7	-30	-15.7	PK
15960.0	H	-45.1	-30	-15.1	PK
15960.0	V	-44.2	-30	-14.2	PK
Channel 100 (5500MHz)					
165.9	H	-66.8	-54	-12.8	PK
243.1	V	-71.5	-54	-17.5	PK
250.0	H	-72.1	-54	-18.1	PK

265.5	V	-74.4	-54	-20.4	PK
11000.0	H	-44.1	-30	-14.1	PK
11000.0	V	-44.1	-30	-14.1	PK
16500.0	H	-43.0	-30	-13.0	PK
16500.0	V	-43.2	-30	-13.2	PK
Channel 140 (5700MHz)					
333.0	H	-67.5	-54	-13.5	PK
365.1	V	-69.2	-54	-15.2	PK
398.9	H	-65.3	-54	-11.3	PK
433.2	V	-71.9	-54	-17.9	PK
11400.0	H	-44.1	-30	-14.1	PK
11400.0	V	-44.2	-30	-14.2	PK
17100.0	H	-42.9	-30	-12.9	PK
17100.0	V	-42.8	-30	-12.8	PK

Mode 2: Transmit by 802.11n(20MHz) (Chain 0)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
165.9	H	-66.4	-54	-12.4	PK
242.9	V	-67.5	-54	-13.5	PK
256.6	H	-73.5	-54	-19.5	PK
280.0	V	-76.9	-54	-22.9	PK
10360.0	H	-45.5	-30	-15.5	PK
10360.0	V	-45.2	-30	-15.2	PK
15540.0	H	-44.7	-30	-14.7	PK
15540.0	V	-44.1	-30	-14.1	PK
Channel 64 (5320MHz)					
333.2	H	-67.5	-54	-13.5	PK
393.2	V	-66.8	-54	-12.8	PK
399.7	H	-62.4	-54	-8.4	PK
432.0	V	-68.3	-54	-14.3	PK
10640.0	H	-45.6	-30	-15.6	PK
10640.0	V	-45.3	-30	-15.3	PK
15960.0	H	-44.2	-30	-14.2	PK

15960.0	V	-44.0	-30	-14.0	PK
Channel 100 (5500MHz)					
165.9	H	-68.2	-54	-14.2	PK
240.0	V	-66.8	-54	-12.8	PK
265.5	H	-71.7	-54	-17.7	PK
298.2	V	-72.8	-54	-18.8	PK
11000.0	H	-43.2	-30	-13.2	PK
11000.0	V	-43.6	-30	-13.6	PK
16500.0	H	-42.9	-30	-12.9	PK
16500.0	V	-42.5	-30	-12.5	PK
Channel 140 (5700MHz)					
331.8	H	-64.9	-54	-10.9	PK
355.5	V	-67.2	-54	-13.2	PK
399.9	H	-61.2	-54	-7.2	PK
432.0	V	-69.5	-54	-15.5	PK
11400.0	H	-44.3	-30	-14.3	PK
11400.0	V	-43.7	-30	-13.7	PK
17100.0	H	-43.2	-30	-13.2	PK
17100.0	V	-42.9	-30	-12.9	PK

Mode 2: Transmit by 802.11n(20MHz) (Chain 1)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
240.0	H	-66.7	-54	-12.7	PK
249.2	V	-71.0	-54	-17.0	PK
290.8	H	-72.7	-54	-18.7	PK
331.8	V	-70.3	-54	-16.3	PK
10360.0	H	-45.1	-30	-15.1	PK
10360.0	V	-45.2	-30	-15.2	PK
15540.0	H	-45.2	-30	-15.2	PK
15540.0	V	-44.5	-30	-14.5	PK
Channel 64 (5320MHz)					
240.0	H	-67.2	-54	-13.2	PK
249.9	V	-69.5	-54	-15.5	PK
265.5	H	-71.6	-54	-17.6	PK

333.2	V	-64.4	-54	-10.4	PK
10640.0	H	-45.4	-30	-15.4	PK
10640.0	V	-44.8	-30	-14.8	PK
15960.0	H	-44.8	-30	-14.8	PK
15960.0	V	-44.6	-30	-14.6	PK
Channel 100 (5500MHz)					
242.9	H	-66.7	-54	-12.7	PK
250.3	V	-70.7	-54	-16.7	PK
292.9	H	-72.9	-54	-18.9	PK
331.8	V	-65.2	-54	-11.2	PK
11000.0	H	-44.3	-30	-14.3	PK
11000.0	V	-43.9	-30	-13.9	PK
16500.0	H	-43.3	-30	-13.3	PK
16500.0	V	-43.4	-30	-13.4	PK
Channel 140 (5700MHz)					
242.9	V	-71.0	-54	-17.0	PK
265.6	H	-74.2	-54	-20.2	PK
290.7	V	-74.0	-54	-20.0	PK
242.9	V	-71.0	-54	-17.0	PK
11400.0	H	-43.9	-30	-13.9	PK
11400.0	V	-43.4	-30	-13.4	PK
17100.0	H	-43.6	-30	-13.6	PK
17100.0	V	-43.1	-30	-13.1	PK

Mode 2: Transmit by 802.11n(20MHz) (Chain 2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
288.9	H	-76.1	-54	-22.1	PK
331.8	V	-71.3	-54	-17.3	PK
355.2	H	-70.6	-54	-16.6	PK
432.0	V	-74.1	-54	-20.1	PK
10360.0	H	-44.6	-30	-14.6	PK
10360.0	V	-44.6	-30	-14.6	PK
15540.0	H	-45.2	-30	-15.2	PK

15540.0	V	-44.5	-30	-14.5	PK
Channel 64 (5320MHz)					
355.4	H	-67.2	-54	-13.2	PK
393.3	V	-64.7	-54	-10.7	PK
415.3	H	-68.3	-54	-14.3	PK
432.0	V	-68.5	-54	-14.5	PK
10640.0	H	-46.3	-30	-16.3	PK
10640.0	V	-45.6	-30	-15.6	PK
15960.0	H	-44.9	-30	-14.9	PK
15960.0	V	-45.2	-30	-15.2	PK
Channel 100 (5500MHz)					
331.8	H	-68.9	-54	-14.9	PK
355.4	V	-69.9	-54	-15.9	PK
393.2	H	-64.7	-54	-10.7	PK
433.1	V	-72.4	-54	-18.4	PK
11000.0	H	-43.2	-30	-13.2	PK
11000.0	V	-43.3	-30	-13.3	PK
16500.0	H	-42.2	-30	-12.2	PK
16500.0	V	-42.9	-30	-12.9	PK
Channel 140 (5700MHz)					
333.0	H	-67.5	-54	-13.5	PK
365.1	V	-69.2	-54	-15.2	PK
398.9	H	-65.3	-54	-11.3	PK
433.2	V	-71.9	-54	-17.9	PK
11400.0	H	-43.9	-30	-13.9	PK
11400.0	V	-42.7	-30	-12.7	PK
17100.0	H	-43.5	-30	-13.5	PK
17100.0	V	-43.0	-30	-13.0	PK

Mode 2: Transmit by 802.11n(20MHz) (Chain 0+1)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
165.9	H	-66.4	-54	-12.4	PK
242.9	V	-67.5	-54	-13.5	PK
256.6	H	-73.5	-54	-19.5	PK

280.0	V	-76.9	-54	-22.9	PK
10360.0	H	-45.4	-30	-15.4	PK
10360.0	V	-45.3	-30	-15.3	PK
15540.0	H	-44.9	-30	-14.9	PK
15540.0	V	-44.8	-30	-14.8	PK
Channel 64 (5320MHz)					
333.2	H	-67.5	-54	-13.5	PK
393.2	V	-66.8	-54	-12.8	PK
399.7	H	-62.4	-54	-8.4	PK
432.0	V	-68.3	-54	-14.3	PK
10640.0	H	-44.8	-30	-14.8	PK
10640.0	V	-45.5	-30	-15.5	PK
15960.0	H	-44.3	-30	-14.3	PK
15960.0	V	-44.9	-30	-14.9	PK
Channel 100 (5500MHz)					
165.9	H	-68.2	-54	-14.2	PK
240.0	V	-66.8	-54	-12.8	PK
265.5	H	-71.7	-54	-17.7	PK
298.2	V	-72.8	-54	-18.8	PK
11000.0	H	-42.8	-30	-12.8	PK
11000.0	V	-43.5	-30	-13.5	PK
16500.0	H	-42.5	-30	-12.5	PK
16500.0	V	-43.0	-30	-13.0	PK
Channel 140 (5700MHz)					
331.8	H	-64.9	-54	-10.9	PK
355.5	V	-67.2	-54	-13.2	PK
399.9	H	-61.2	-54	-7.2	PK
432.0	V	-69.5	-54	-15.5	PK
11400.0	H	-44.0	-30	-14.0	PK
11400.0	V	-43.9	-30	-13.9	PK
17100.0	H	-43.2	-30	-13.2	PK
17100.0	V	-43.0	-30	-13.0	PK

Mode 2: Transmit by 802.11n(20MHz) (Chain 0+1+2)					
Frequency	Polarization	Measure Level	Limit	Margin	Detector

(MHz)	(H/V)	(dBm)	(dBm)	(dB)	
Channel 36 (5180MHz)					
165.9	H	-62.4	-54	-8.4	PK
240.0	V	-65.4	-54	-11.4	PK
290.8	H	-71.3	-54	-17.3	PK
331.8	V	-68.9	-54	-14.9	PK
10360.0	H	-45.3	-30	-15.3	PK
10360.0	V	-45.0	-30	-15.0	PK
15540.0	H	-44.4	-30	-14.4	PK
15540.0	V	-45.0	-30	-15.0	PK
Channel 64 (5320MHz)					
355.5	H	-68.7	-54	-14.7	PK
393.2	V	-64.6	-54	-10.6	PK
415.3	H	-67.8	-54	-13.8	PK
432.0	V	-68.1	-54	-14.1	PK
10640.0	H	-45.0	-30	-15.0	PK
10640.0	V	-46.0	-30	-16.0	PK
15960.0	H	-45.2	-30	-15.2	PK
15960.0	V	-44.0	-30	-14.0	PK
Channel 100 (5500MHz)					
240.0	H	-66.6	-54	-12.6	PK
249.9	V	-71.1	-54	-17.1	PK
265.5	H	-71.6	-54	-17.6	PK
331.8	V	-64.6	-54	-10.6	PK
11000.0	H	-43.9	-30	-13.9	PK
11000.0	V	-43.5	-30	-13.5	PK
16500.0	H	-43.6	-30	-13.6	PK
16500.0	V	-43.7	-30	-13.7	PK
Channel 140 (5700MHz)					
355.5	H	-69.1	-54	-15.1	PK
393.2	V	-63.8	-54	-9.8	PK
432.0	H	-70.0	-54	-16.0	PK
464.6	V	-70.8	-54	-16.8	PK
11400.0	H	-43.8	-30	-13.8	PK
11400.0	V	-44.2	-30	-14.2	PK
17100.0	H	-43.5	-30	-13.5	PK
17100.0	V	-43.1	-30	-13.1	PK

Mode 3: Transmit by 802.11n(40MHz) (Chain 0)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
233.2	H	-69.7	-54	-15.7	PK
239.9	V	-69.8	-54	-15.8	PK
250.0	H	-70.7	-54	-16.7	PK
300.2	V	-69.7	-54	-15.7	PK
10380.0	H	-45.5	-30	-15.5	PK
10380.0	V	-44.9	-30	-14.9	PK
15570.0	H	-43.3	-30	-13.3	PK
15570.0	V	-44.1	-30	-14.1	PK
Channel 62 (5310MHz)					
333.2	H	-65.9	-54	-11.9	PK
365.1	V	-69.6	-54	-15.6	PK
400.0	H	-67.3	-54	-13.3	PK
433.1	V	-70.9	-54	-16.9	PK
10620.0	H	-45.0	-30	-15.0	PK
10620.0	V	-45.0	-30	-15.0	PK
15930.0	H	-44.0	-30	-14.0	PK
15930.0	V	-43.8	-30	-13.8	PK
Channel 102 (5510MHz)					
242.9	H	-71.3	-54	-17.3	PK
265.5	V	-73.2	-54	-19.2	PK
290.7	H	-73.8	-54	-19.8	PK
331.8	V	-68.0	-54	-14.0	PK
11020.0	H	-43.2	-30	-13.2	PK
11020.0	V	-42.7	-30	-12.7	PK
16530.0	H	-42.2	-30	-12.2	PK
16530.0	V	-42.4	-30	-12.4	PK
Channel 134 (5670MHz)					
365.1	H	-68.5	-54	-14.5	PK
388.3	V	-67.8	-54	-13.8	PK
398.2	H	-64.6	-54	-10.6	PK
415.3	V	-68.9	-54	-14.9	PK

11340.0	H	-44.1	-30	-14.1	PK
11340.0	V	-43.7	-30	-13.7	PK
17010.0	H	-42.5	-30	-12.5	PK
17010.0	V	-42.7	-30	-12.7	PK

Mode 3: Transmit by 802.11n(40MHz) (Chain 1)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
166.5	H	-68.2	-54	-14.2	PK
240.0	V	-66.4	-54	-12.4	PK
249.9	H	-68.0	-54	-14.0	PK
265.5	V	-74.4	-54	-20.4	PK
10380.0	H	-44.2	-30	-14.2	PK
10380.0	V	-45.5	-30	-15.5	PK
15570.0	H	-44.1	-30	-14.1	PK
15570.0	V	-44.4	-30	-14.4	PK
Channel 62 (5310MHz)					
331.8	H	-66.2	-54	-12.2	PK
365.1	V	-68.3	-54	-14.3	PK
399.7	H	-61.3	-54	-7.3	PK
432.0	V	-68.4	-54	-14.4	PK
10620.0	H	-45.1	-30	-15.1	PK
10620.0	V	-44.3	-30	-14.3	PK
15930.0	H	-43.7	-30	-13.7	PK
15930.0	V	-44.4	-30	-14.4	PK
Channel 102 (5510MHz)					
136.6	H	-71.7	-54	-17.7	PK
166.5	V	-65.5	-54	-11.5	PK
240.0	H	-68.7	-54	-14.7	PK
265.5	V	-73.2	-54	-19.2	PK
11020.0	H	-42.6	-30	-12.6	PK
11020.0	V	-43.9	-30	-13.9	PK
16530.0	H	-43.2	-30	-13.2	PK
16530.0	V	-42.6	-30	-12.6	PK
Channel 134 (5670MHz)					
331.8	H	-66.1	-54	-12.1	PK

355.4	V	-67.5	-54	-13.5	PK
399.7	H	-61.2	-54	-7.2	PK
432.0	V	-70.2	-54	-16.2	PK
11340.0	H	-43.8	-30	-13.8	PK
11340.0	V	-43.9	-30	-13.9	PK
17010.0	H	-42.6	-30	-12.6	PK
17010.0	V	-43.0	-30	-13.0	PK

Mode 3: Transmit by 802.11n(40MHz) (Chain 2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
166.5	H	-67.3	-54	-13.3	PK
240.0	V	-63.8	-54	-9.8	PK
248.9	H	-66.9	-54	-12.9	PK
265.4	V	-71.4	-54	-17.4	PK
10380.0	H	-45.7	-30	-15.7	PK
10380.0	V	-45.1	-30	-15.1	PK
15570.0	H	-43.9	-30	-13.9	PK
15570.0	V	-44.7	-30	-14.7	PK
Channel 62 (5310MHz)					
333.0	H	-63.1	-54	-9.1	PK
366.4	V	-67.5	-54	-13.5	PK
399.7	H	-62.0	-54	-8.0	PK
432.0	V	-70.2	-54	-16.2	PK
10620.0	H	-44.9	-30	-14.9	PK
10620.0	V	-44.9	-30	-14.9	PK
15930.0	H	-43.7	-30	-13.7	PK
15930.0	V	-43.7	-30	-13.7	PK
Channel 102 (5510MHz)					
166.5	H	-65.2	-54	-11.2	PK
243.1	V	-71.3	-54	-17.3	PK
266.6	H	-75.0	-54	-21.0	PK
333.2	V	-67.9	-54	-13.9	PK
11020.0	H	-43.9	-30	-13.9	PK
11020.0	V	-43.4	-30	-13.4	PK

16530.0	H	-42.4	-30	-12.4	PK
16530.0	V	-42.0	-30	-12.0	PK
Channel 134 (5670MHz)					
348.4	H	-73.7	-54	-19.7	PK
365.1	V	-69.3	-54	-15.3	PK
399.9	H	-64.7	-54	-10.7	PK
439.1	V	-72.5	-54	-18.5	PK
11340.0	H	-43.2	-30	-13.2	PK
11340.0	V	-43.4	-30	-13.4	PK
17010.0	H	-42.6	-30	-12.6	PK
17010.0	V	-42.6	-30	-12.6	PK

Mode 3: Transmit by 802.11n(40MHz) (Chain 0+1)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
161.8	H	-67.6	-54	-13.6	PK
242.9	V	-68.5	-54	-14.5	PK
290.8	H	-74.1	-54	-20.1	PK
333.2	V	-65.5	-54	-11.5	PK
10380.0	H	-45.0	-30	-15.0	PK
10380.0	V	-45.2	-30	-15.2	PK
15570.0	H	-44.6	-30	-14.6	PK
15570.0	V	-44.3	-30	-14.3	PK
Channel 62 (5310MHz)					
355.5	H	-69.2	-54	-15.2	PK
393.2	V	-64.6	-54	-10.6	PK
405.0	H	-68.5	-54	-14.5	PK
432.0	V	-70.4	-54	-16.4	PK
10620.0	H	-44.7	-30	-14.7	PK
10620.0	V	-45.5	-30	-15.5	PK
15930.0	H	-45.2	-30	-15.2	PK
15930.0	V	-44.0	-30	-14.0	PK
Channel 102 (5510MHz)					
166.5	H	-66.5	-54	-12.5	PK
242.9	V	-71.6	-54	-17.6	PK
290.8	H	-72.6	-54	-18.6	PK

331.8	V	-69.9	-54	-15.9	PK
11020.0	H	-43.7	-30	-13.7	PK
11020.0	V	-43.0	-30	-13.0	PK
16530.0	H	-42.5	-30	-12.5	PK
16530.0	V	-41.9	-30	-11.9	PK
Channel 134 (5670MHz)					
366.4	H	-69.3	-54	-15.3	PK
393.2	V	-65.7	-54	-11.7	PK
420.0	H	-69.3	-54	-15.3	PK
452.5	V	-72.1	-54	-18.1	PK
11340.0	H	-42.3	-30	-12.3	PK
11340.0	V	-44.3	-30	-14.3	PK
17010.0	H	-41.9	-30	-11.9	PK
17010.0	V	-43.0	-30	-13.0	PK

Mode 3: Transmit by 802.11n(40MHz) (Chain 0+1+2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
366.5	H	-67.5	-54	-13.5	PK
393.2	V	-63.4	-54	-9.4	PK
399.6	H	-64.3	-54	-10.3	PK
432.0	V	-69.7	-54	-15.7	PK
10380.0	H	-45.5	-30	-15.5	PK
10380.0	V	-45.1	-30	-15.1	PK
15570.0	H	-44.2	-30	-14.2	PK
15570.0	V	-44.5	-30	-14.5	PK
Channel 62 (5310MHz)					
165.9	H	-66.8	-54	-12.8	PK
243.1	V	-71.5	-54	-17.5	PK
250.0	H	-72.1	-54	-18.1	PK
265.5	V	-74.4	-54	-20.4	PK
10620.0	H	-45.4	-30	-15.4	PK
10620.0	V	-45.0	-30	-15.0	PK
15930.0	H	-44.7	-30	-14.7	PK
15930.0	V	-44.2	-30	-14.2	PK

Channel 102 (5510MHz)					
288.9	H	-76.1	-54	-22.1	PK
331.8	V	-71.3	-54	-17.3	PK
355.2	H	-70.6	-54	-16.6	PK
432.0	V	-74.1	-54	-20.1	PK
11020.0	H	-44.2	-30	-14.2	PK
11020.0	V	-43.4	-30	-13.4	PK
16530.0	H	-42.4	-30	-12.4	PK
16530.0	V	-42.9	-30	-12.9	PK
Channel 134 (5670MHz)					
355.4	H	-67.2	-54	-13.2	PK
393.3	V	-64.7	-54	-10.7	PK
415.3	H	-68.3	-54	-14.3	PK
432.0	V	-68.5	-54	-14.5	PK
11340.0	H	-44.0	-30	-14.0	PK
11340.0	V	-43.8	-30	-13.8	PK
17010.0	H	-42.8	-30	-12.8	PK
17010.0	V	-42.6	-30	-12.6	PK

Test by dipole antenna 1#

Mode 1: Transmit by 802.11a(Chain 0)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
398.1	H	-65.4	-36	-29.4	PK
399.6	V	-63.4	-36	-27.4	PK
531.0	H	-66.8	-54	-12.8	PK
630.4	V	-65.0	-54	-11.0	PK
10360.0	H	-46.6	-30	-16.6	PK
10360.0	V	-46.1	-30	-16.1	PK
15540.0	H	-46.6	-30	-16.6	PK
15540.0	V	-45.9	-30	-15.9	PK
Channel 64 (5320MHz)					
398.1	H	-65.0	-36	-29.0	PK
398.1	V	-66.1	-36	-30.1	PK
699.8	H	-69.6	-54	-15.6	PK
632.9	V	-66.7	-54	-12.7	PK
10640.0	H	-46.2	-30	-16.2	PK
10640.0	V	-46.6	-30	-16.6	PK
15960.0	H	-46.2	-30	-16.2	PK
15960.0	V	-45.7	-30	-15.7	PK
Channel 100 (5500MHz)					
398.1	H	-65.5	-36	-29.5	PK
398.1	V	-64.6	-36	-28.6	PK
566.4	H	-66.8	-54	-12.8	PK
699.8	V	-66.0	-54	-12.0	PK
11000.0	H	-44.7	-30	-14.7	PK
11000.0	V	-45.0	-30	-15.0	PK
16500.0	H	-43.8	-30	-13.8	PK
16500.0	V	-44.1	-30	-14.1	PK
Channel 140 (5700MHz)					
433.0	H	-62.2	-36	-26.2	PK
399.1	V	-66.3	-36	-30.3	PK
699.8	H	-64.1	-54	-10.1	PK
632.9	V	-67.0	-54	-13.0	PK

11400.0	H	-44.8	-30	-14.8	PK
11400.0	V	-45.6	-30	-15.6	PK
17100.0	H	-44.8	-30	-14.8	PK
17100.0	V	-44.0	-30	-14.0	PK

Mode 1: Transmit by 802.11a(Chain 1)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
531.0	H	-68.1	-54	-14.1	PK
398.1	V	-66.7	-36	-30.7	PK
829.8	H	-68.0	-54	-14.0	PK
630.4	V	-67.5	-54	-13.5	PK
10360.0	H	-46.7	-30	-16.7	PK
10360.0	V	-46.2	-30	-16.2	PK
15540.0	H	-46.5	-30	-16.5	PK
15540.0	V	-46.3	-30	-16.3	PK
Channel 64 (5320MHz)					
398.1	H	-66.1	-36	-30.1	PK
480.1	V	-70.8	-54	-16.8	PK
799.7	H	-67.4	-54	-13.4	PK
844.8	V	-66.3	-54	-12.3	PK
10640.0	H	-46.5	-30	-16.5	PK
10640.0	V	-47.3	-30	-17.3	PK
15960.0	H	-46.0	-30	-16.0	PK
15960.0	V	-46.1	-30	-16.1	PK
Channel 100 (5500MHz)					
531.0	H	-66.9	-54	-12.9	PK
480.1	V	-70.8	-54	-16.8	PK
829.8	H	-66.5	-54	-12.5	PK
796.3	V	-69.1	-54	-15.1	PK
11000.0	H	-45.3	-30	-15.3	PK
11000.0	V	-44.5	-30	-14.5	PK
16500.0	H	-44.8	-30	-14.8	PK
16500.0	V	-44.4	-30	-14.4	PK

Channel 140 (5700MHz)					
480.1	H	-68.3	-54	-14.3	PK
531.0	V	-68.8	-54	-14.8	PK
764.8	H	-68.7	-54	-14.7	PK
825.9	V	-68.6	-54	-14.6	PK
11400.0	H	-45.6	-30	-15.6	PK
11400.0	V	-45.5	-30	-15.5	PK
17100.0	H	-45.1	-30	-15.1	PK
17100.0	V	-44.9	-30	-14.9	PK

Mode 1: Transmit by 802.11a(Chain 2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
480.1	H	-70.8	-54	-16.8	PK
531.0	V	-69.6	-54	-15.6	PK
833.2	H	-67.8	-54	-13.8	PK
799.7	V	-67.8	-54	-13.8	PK
10360.0	H	-46.5	-30	-16.5	PK
10360.0	V	-46.0	-30	-16.0	PK
15540.0	H	-46.5	-30	-16.5	PK
15540.0	V	-45.6	-30	-15.6	PK
Channel 64 (5320MHz)					
399.6	H	-64.2	-36	-28.2	PK
398.1	V	-67.9	-36	-31.9	PK
663.4	H	-67.6	-54	-13.6	PK
699.8	V	-66.9	-54	-12.9	PK
10640.0	H	-47.1	-30	-17.1	PK
10640.0	V	-46.4	-30	-16.4	PK
15960.0	H	-46.4	-30	-16.4	PK
15960.0	V	-46.4	-30	-16.4	PK
Channel 100 (5500MHz)					
398.1	H	-66.5	-36	-30.5	PK
398.1	V	-69.9	-36	-33.9	PK
730.3	H	-69.1	-54	-15.1	PK
759.0	V	-69.3	-54	-15.3	PK

11000.0	H	-45.3	-30	-15.3	PK
11000.0	V	-44.9	-30	-14.9	PK
16500.0	H	-44.4	-30	-14.4	PK
16500.0	V	-44.5	-30	-14.5	PK
Channel 140 (5700MHz)					
399.6	H	-66.9	-36	-30.9	PK
399.1	V	-65.6	-36	-29.6	PK
796.3	H	-67.4	-54	-13.4	PK
799.2	V	-65.3	-54	-11.3	PK
11400.0	H	-45.6	-30	-15.6	PK
11400.0	V	-45.5	-30	-15.5	PK
17100.0	H	-45.0	-30	-15.0	PK
17100.0	V	-44.1	-30	-14.1	PK

Mode 2: Transmit by 802.11n(20MHz) (Chain 0)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
387.4	H	-68.2	-36	-32.2	PK
399.1	V	-66.5	-36	-30.5	PK
566.4	H	-67.7	-54	-13.7	PK
530.5	V	-67.0	-54	-13.0	PK
10360.0	H	-46.9	-30	-16.9	PK
10360.0	V	-46.4	-30	-16.4	PK
15540.0	H	-45.1	-30	-15.1	PK
15540.0	V	-45.2	-30	-15.2	PK
Channel 64 (5320MHz)					
480.1	H	-68.5	-54	-14.5	PK
531.0	V	-64.9	-54	-10.9	PK
699.8	H	-69.8	-54	-15.8	PK
799.2	V	-66.9	-54	-12.9	PK
10640.0	H	-46.7	-30	-16.7	PK
10640.0	V	-46.7	-30	-16.7	PK
15960.0	H	-46.4	-30	-16.4	PK
15960.0	V	-46.0	-30	-16.0	PK

Channel 100 (5500MHz)					
398.1	H	-65.5	-36	-29.5	PK
398.1	V	-67.2	-36	-31.2	PK
566.4	H	-67.3	-54	-13.3	PK
531.0	V	-67.5	-54	-13.5	PK
11000.0	H	-45.1	-30	-15.1	PK
11000.0	V	-44.7	-30	-14.7	PK
16500.0	H	-44.8	-30	-14.8	PK
16500.0	V	-43.9	-30	-13.9	PK
Channel 140 (5700MHz)					
480.1	H	-70.3	-54	-16.3	PK
531.0	V	-66.8	-54	-12.8	PK
829.8	H	-67.8	-54	-13.8	PK
829.3	V	-62.6	-54	-8.6	PK
11400.0	H	-45.6	-30	-15.6	PK
11400.0	V	-45.4	-30	-15.4	PK
17100.0	H	-44.8	-30	-14.8	PK
17100.0	V	-45.0	-30	-15.0	PK

Mode 2: Transmit by 802.11n(20MHz) (Chain 1)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
433.0	H	-68.4	-36	-32.4	PK
531.0	V	-69.9	-54	-15.9	PK
787.6	H	-68.7	-54	-14.7	PK
799.7	V	-67.9	-54	-13.9	PK
10360.0	H	-46.6	-30	-16.6	PK
10360.0	V	-46.5	-30	-16.5	PK
15540.0	H	-46.1	-30	-16.1	PK
15540.0	V	-46.1	-30	-16.1	PK
Channel 64 (5320MHz)					
431.6	H	-63.3	-36	-27.3	PK
480.1	V	-70.3	-54	-16.3	PK
765.3	H	-69.5	-54	-15.5	PK
759.0	V	-69.2	-54	-15.2	PK

10640.0	H	-46.2	-30	-16.2	PK
10640.0	V	-46.6	-30	-16.6	PK
15960.0	H	-46.5	-30	-16.5	PK
15960.0	V	-46.5	-30	-16.5	PK
Channel 100 (5500MHz)					
531.0	H	-65.4	-54	-11.4	PK
516.5	V	-71.5	-54	-17.5	PK
832.7	H	-64.1	-54	-10.1	PK
766.2	V	-68.5	-54	-14.5	PK
11000.0	H	-45.7	-30	-15.7	PK
11000.0	V	-45.2	-30	-15.2	PK
16500.0	H	-44.6	-30	-14.6	PK
16500.0	V	-45.0	-30	-15.0	PK
Channel 140 (5700MHz)					
531.0	H	-67.2	-54	-13.2	PK
531.0	V	-69.3	-54	-15.3	PK
829.8	H	-65.1	-54	-11.1	PK
812.8	V	-66.9	-54	-12.9	PK
11400.0	H	-44.9	-30	-14.9	PK
11400.0	V	-44.8	-30	-14.8	PK
17100.0	H	-43.7	-30	-13.7	PK
17100.0	V	-44.4	-30	-14.4	PK

Mode 2: Transmit by 802.11n(20MHz) (Chain 2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
398.1	H	-66.5	-36	-30.5	PK
531.0	V	-70.1	-54	-16.1	PK
829.8	H	-67.5	-54	-13.5	PK
799.2	V	-67.1	-54	-13.1	PK
10360.0	H	-47.0	-30	-17.0	PK
10360.0	V	-47.0	-30	-17.0	PK
15540.0	H	-46.6	-30	-16.6	PK
15540.0	V	-46.1	-30	-16.1	PK

Channel 64 (5320MHz)					
398.1	H	-67.0	-36	-31.0	PK
460.2	V	-71.0	-36	-35.0	PK
696.9	H	-69.7	-54	-15.7	PK
799.2	V	-67.3	-54	-13.3	PK
10640.0	H	-46.3	-30	-16.3	PK
10640.0	V	-46.8	-30	-16.8	PK
15960.0	H	-46.1	-30	-16.1	PK
15960.0	V	-46.3	-30	-16.3	PK
Channel 100 (5500MHz)					
398.1	H	-65.6	-36	-29.6	PK
480.1	V	-71.0	-54	-17.0	PK
799.2	H	-68.7	-54	-14.7	PK
798.2	V	-68.1	-54	-14.1	PK
11000.0	H	-45.4	-30	-15.4	PK
11000.0	V	-45.0	-30	-15.0	PK
16500.0	H	-44.6	-30	-14.6	PK
16500.0	V	-44.5	-30	-14.5	PK
Channel 140 (5700MHz)					
398.1	H	-65.4	-36	-29.4	PK
539.3	V	-71.9	-54	-17.9	PK
832.7	H	-67.9	-54	-13.9	PK
797.3	V	-68.7	-54	-14.7	PK
11400.0	H	-45.6	-30	-15.6	PK
11400.0	V	-45.3	-30	-15.3	PK
17100.0	H	-44.9	-30	-14.9	PK
17100.0	V	-44.3	-30	-14.3	PK

Mode 2: Transmit by 802.11n(20MHz) (Chain 0+1)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
398.1	H	-66.2	-36	-30.2	PK
512.6	V	-72.6	-54	-18.6	PK
699.8	H	-69.7	-54	-15.7	PK
816.2	V	-65.8	-54	-11.8	PK

10360.0	H	-46.8	-30	-16.8	PK
10360.0	V	-46.5	-30	-16.5	PK
15540.0	H	-46.7	-30	-16.7	PK
15540.0	V	-46.6	-30	-16.6	PK
Channel 64 (5320MHz)					
480.1	H	-69.6	-54	-15.6	PK
480.1	V	-72.7	-54	-18.7	PK
829.8	H	-67.6	-54	-13.6	PK
815.7	V	-69.4	-54	-15.4	PK
10640.0	H	-47.2	-30	-17.2	PK
10640.0	V	-47.0	-30	-17.0	PK
15960.0	H	-46.4	-30	-16.4	PK
15960.0	V	-46.1	-30	-16.1	PK
Channel 100 (5500MHz)					
284.1	H	-73.0	-36	-37.0	PK
266.7	V	-71.6	-36	-35.6	PK
480.1	H	-72.3	-54	-18.3	PK
280.7	V	-74.0	-36	-38.0	PK
11000.0	H	-45.3	-30	-15.3	PK
11000.0	V	-45.0	-30	-15.0	PK
16500.0	H	-44.6	-30	-14.6	PK
16500.0	V	-44.9	-30	-14.9	PK
Channel 140 (5700MHz)					
266.7	H	-71.0	-36	-35.0	PK
315.2	V	-69.8	-36	-33.8	PK
303.1	H	-70.0	-36	-34.0	PK
329.2	V	-70.9	-36	-34.9	PK
11400.0	H	-45.8	-30	-15.8	PK
11400.0	V	-45.3	-30	-15.3	PK
17100.0	H	-44.7	-30	-14.7	PK
17100.0	V	-45.2	-30	-15.2	PK

Mode 2: Transmit by 802.11n(20MHz) (Chain 0+1+2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector

Channel 36 (5180MHz)					
522.8	H	-72.5	-54	-18.5	PK
242.9	V	-72.2	-36	-36.2	PK
825.9	H	-70.2	-54	-16.2	PK
252.1	V	-74.4	-36	-38.4	PK
10360.0	H	-46.9	-30	-16.9	PK
10360.0	V	-46.9	-30	-16.9	PK
15540.0	H	-46.3	-30	-16.3	PK
15540.0	V	-46.4	-30	-16.4	PK
Channel 64 (5320MHz)					
294.3	H	-71.1	-36	-35.1	PK
290.4	V	-72.1	-36	-36.1	PK
280.7	H	-74.7	-36	-38.7	PK
310.3	V	-72.4	-36	-36.4	PK
10640.0	H	-47.0	-30	-17.0	PK
10640.0	V	-46.5	-30	-16.5	PK
15960.0	H	-45.7	-30	-15.7	PK
15960.0	V	-46.6	-30	-16.6	PK
Channel 100 (5500MHz)					
284.1	H	-74.1	-36	-38.1	PK
344.3	V	-75.0	-36	-39.0	PK
336.0	H	-75.3	-36	-39.3	PK
361.7	V	-73.5	-36	-37.5	PK
11000.0	H	-45.4	-30	-15.4	PK
11000.0	V	-44.9	-30	-14.9	PK
16500.0	H	-44.9	-30	-14.9	PK
16500.0	V	-44.4	-30	-14.4	PK
Channel 140 (5700MHz)					
277.8	H	-76.9	-36	-40.9	PK
447.6	V	-72.1	-36	-36.1	PK
387.9	H	-73.9	-36	-37.9	PK
799.2	V	-67.8	-54	-13.8	PK
11400.0	H	-45.8	-30	-15.8	PK
11400.0	V	-45.7	-30	-15.7	PK
17100.0	H	-44.5	-30	-14.5	PK
17100.0	V	-45.0	-30	-15.0	PK

Mode 3: Transmit by 802.11n(40MHz) (Chain 0)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
480.1	H	-70.0	-54	-16.0	PK
531.0	V	-69.9	-54	-15.9	PK
829.8	H	-68.5	-54	-14.5	PK
766.2	V	-69.9	-54	-15.9	PK
10380.0	H	-46.5	-30	-16.5	PK
10380.0	V	-46.2	-30	-16.2	PK
15570.0	H	-45.4	-30	-15.4	PK
15570.0	V	-46.3	-30	-16.3	PK
Channel 62 (5310MHz)					
460.2	H	-69.3	-36	-33.3	PK
480.1	V	-71.8	-54	-17.8	PK
833.2	H	-67.4	-54	-13.4	PK
799.2	V	-67.3	-54	-13.3	PK
10620.0	H	-46.7	-30	-16.7	PK
10620.0	V	-46.5	-30	-16.5	PK
15930.0	H	-46.0	-30	-16.0	PK
15930.0	V	-45.9	-30	-15.9	PK
Channel 102 (5510MHz)					
433.0	H	-63.7	-36	-27.7	PK
531.0	V	-69.2	-54	-15.2	PK
699.8	H	-64.1	-54	-10.1	PK
796.8	V	-66.8	-54	-12.8	PK
11020.0	H	-45.0	-30	-15.0	PK
11020.0	V	-44.7	-30	-14.7	PK
16530.0	H	-44.5	-30	-14.5	PK
16530.0	V	-43.9	-30	-13.9	PK
Channel 134 (5670MHz)					
531.0	H	-71.7	-54	-17.7	PK
399.6	V	-67.1	-36	-31.1	PK
832.7	H	-67.2	-54	-13.2	PK
729.9	V	-67.3	-54	-13.3	PK
11340.0	H	-45.2	-30	-15.2	PK

11340.0	V	-45.4	-30	-15.4	PK
17010.0	H	-44.4	-30	-14.4	PK
17010.0	V	-44.0	-30	-14.0	PK

Mode 3: Transmit by 802.11n(40MHz) (Chain 1)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
398.1	H	-66.6	-36	-30.6	PK
531.0	V	-71.2	-54	-17.2	PK
699.8	H	-68.8	-54	-14.8	PK
824.9	V	-72.5	-54	-18.5	PK
10380.0	H	-46.4	-30	-16.4	PK
10380.0	V	-46.8	-30	-16.8	PK
15570.0	H	-46.3	-30	-16.3	PK
15570.0	V	-45.8	-30	-15.8	PK
Channel 62 (5310MHz)					
398.1	H	-66.3	-36	-30.3	PK
497.5	V	-66.8	-54	-12.8	PK
833.2	H	-68.4	-54	-14.4	PK
816.2	V	-66.3	-54	-12.3	PK
10620.0	H	-46.7	-30	-16.7	PK
10620.0	V	-47.1	-30	-17.1	PK
15930.0	H	-46.2	-30	-16.2	PK
15930.0	V	-46.2	-30	-16.2	PK
Channel 102 (5510MHz)					
399.6	H	-66.5	-36	-30.5	PK
398.1	V	-65.7	-36	-29.7	PK
832.7	H	-68.0	-54	-14.0	PK
699.8	V	-66.8	-54	-12.8	PK
11020.0	H	-45.0	-30	-15.0	PK
11020.0	V	-45.0	-30	-15.0	PK
16530.0	H	-43.7	-30	-13.7	PK
16530.0	V	-44.2	-30	-14.2	PK
Channel 134 (5670MHz)					
480.1	H	-70.1	-54	-16.1	PK
532.5	V	-70.0	-54	-16.0	PK

829.8	H	-68.1	-54	-14.1	PK
816.2	V	-66.2	-54	-12.2	PK
11340.0	H	-44.9	-30	-14.9	PK
11340.0	V	-45.0	-30	-15.0	PK
17010.0	H	-43.3	-30	-13.3	PK
17010.0	V	-44.0	-30	-14.0	PK

Mode 3: Transmit by 802.11n(40MHz) (Chain 2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
398.1	H	-66.7	-36	-30.7	PK
531.0	V	-68.5	-54	-14.5	PK
566.4	H	-67.8	-54	-13.8	PK
816.2	V	-66.4	-54	-12.4	PK
10380.0	H	-46.8	-30	-16.8	PK
10375.5	V	-44.4	-30	-14.4	PK
15570.0	H	-45.7	-30	-15.7	PK
15628.5	V	-43.4	-30	-13.4	PK
Channel 62 (5310MHz)					
464.6	H	-66.4	-36	-30.4	PK
531.0	V	-71.4	-54	-17.4	PK
730.3	H	-67.3	-54	-13.3	PK
816.2	V	-64.3	-54	-10.3	PK
10620.0	H	-46.4	-30	-16.4	PK
10620.0	V	-46.5	-30	-16.5	PK
15930.0	H	-45.6	-30	-15.6	PK
15930.0	V	-45.7	-30	-15.7	PK
Channel 102 (5510MHz)					
531.0	H	-66.3	-54	-12.3	PK
531.0	V	-69.3	-54	-15.3	PK
829.8	H	-66.3	-54	-12.3	PK
816.2	V	-66.8	-54	-12.8	PK
11020.0	H	-45.5	-30	-15.5	PK
11020.0	V	-45.1	-30	-15.1	PK
16530.0	H	-43.9	-30	-13.9	PK

16530.0	V	-43.3	-30	-13.3	PK
Channel 134 (5670MHz)					
531.0	H	-72.9	-54	-18.9	PK
480.1	V	-71.9	-54	-17.9	PK
796.3	H	-67.8	-54	-13.8	PK
764.3	V	-69.7	-54	-15.7	PK
11340.0	H	-45.2	-30	-15.2	PK
11340.0	V	-44.8	-30	-14.8	PK
17010.0	H	-44.3	-30	-14.3	PK
17010.0	V	-44.1	-30	-14.1	PK

Mode 3: Transmit by 802.11n(40MHz) (Chain 0+1)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
254.6	H	-70.9	-36	-34.9	PK
375.8	V	-72.4	-36	-36.4	PK
360.8	H	-71.1	-36	-35.1	PK
389.9	V	-72.2	-36	-36.2	PK
10380.0	H	-47.0	-30	-17.0	PK
10380.0	V	-46.7	-30	-16.7	PK
15570.0	H	-45.8	-30	-15.8	PK
15570.0	V	-45.9	-30	-15.9	PK
Channel 62 (5310MHz)					
480.1	H	-70.4	-54	-16.4	PK
250.2	V	-70.1	-36	-34.1	PK
829.8	H	-68.2	-54	-14.2	PK
265.2	V	-71.6	-36	-35.6	PK
10620.0	H	-46.9	-30	-16.9	PK
10620.0	V	-47.0	-30	-17.0	PK
15930.0	H	-45.3	-30	-15.3	PK
15930.0	V	-45.8	-30	-15.8	PK
Channel 102 (5510MHz)					
250.2	H	-70.0	-36	-34.0	PK
331.7	V	-72.7	-36	-36.7	PK
314.7	H	-71.9	-36	-35.9	PK
355.4	V	-72.7	-36	-36.7	PK

11020.0	H	-45.2	-30	-15.2	PK
11020.0	V	-45.3	-30	-15.3	PK
16530.0	H	-44.8	-30	-14.8	PK
16530.0	V	-44.4	-30	-14.4	PK
Channel 134 (5670MHz)					
241.5	H	-68.4	-36	-32.4	PK
398.1	V	-72.5	-36	-36.5	PK
385.0	H	-74.0	-36	-38.0	PK
421.4	V	-75.2	-36	-39.2	PK
11340.0	H	-44.9	-30	-14.9	PK
11340.0	V	-45.6	-30	-15.6	PK
17010.0	H	-44.4	-30	-14.4	PK
17010.0	V	-44.4	-30	-14.4	PK

Mode 3: Transmit by 802.11n(40MHz) (Chain 0+1+2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
265.7	H	-73.8	-36	-37.8	PK
387.9	V	-73.9	-36	-37.9	PK
431.6	H	-64.2	-36	-28.2	PK
401.0	V	-73.7	-36	-37.7	PK
10380.0	H	-46.7	-30	-16.7	PK
10380.0	V	-46.9	-30	-16.9	PK
15570.0	H	-44.9	-30	-14.9	PK
15570.0	V	-45.7	-30	-15.7	PK
Channel 62 (5310MHz)					
242.4	H	-69.8	-36	-33.8	PK
283.7	V	-76.6	-36	-40.6	PK
270.6	H	-76.8	-36	-40.8	PK
333.6	V	-78.0	-36	-42.0	PK
10380.0	H	-47.2	-30	-17.2	PK
10620.0	V	-46.7	-30	-16.7	PK
15570.0	H	-45.1	-30	-15.1	PK
15930.0	V	-45.9	-30	-15.9	PK
Channel 102 (5510MHz)					

256.0	H	-74.1	-36	-38.1	PK
372.9	V	-75.9	-36	-39.9	PK
359.8	H	-75.6	-36	-39.6	PK
379.7	V	-73.4	-36	-37.4	PK
11020.0	H	-45.2	-30	-15.2	PK
11020.0	V	-44.8	-30	-14.8	PK
16530.0	H	-43.8	-30	-13.8	PK
16530.0	V	-43.7	-30	-13.7	PK
Channel 134 (5670MHz)					
249.7	H	-67.2	-36	-31.2	PK
530.5	V	-66.9	-54	-12.9	PK
410.2	H	-73.4	-36	-37.4	PK
839.5	V	-68.9	-54	-14.9	PK
11340.0	H	-45.5	-30	-15.5	PK
11340.0	V	-45.0	-30	-15.0	PK
17010.0	H	-44.3	-30	-14.3	PK
17010.0	V	-44.3	-30	-14.3	PK

6.6. Test Photograph

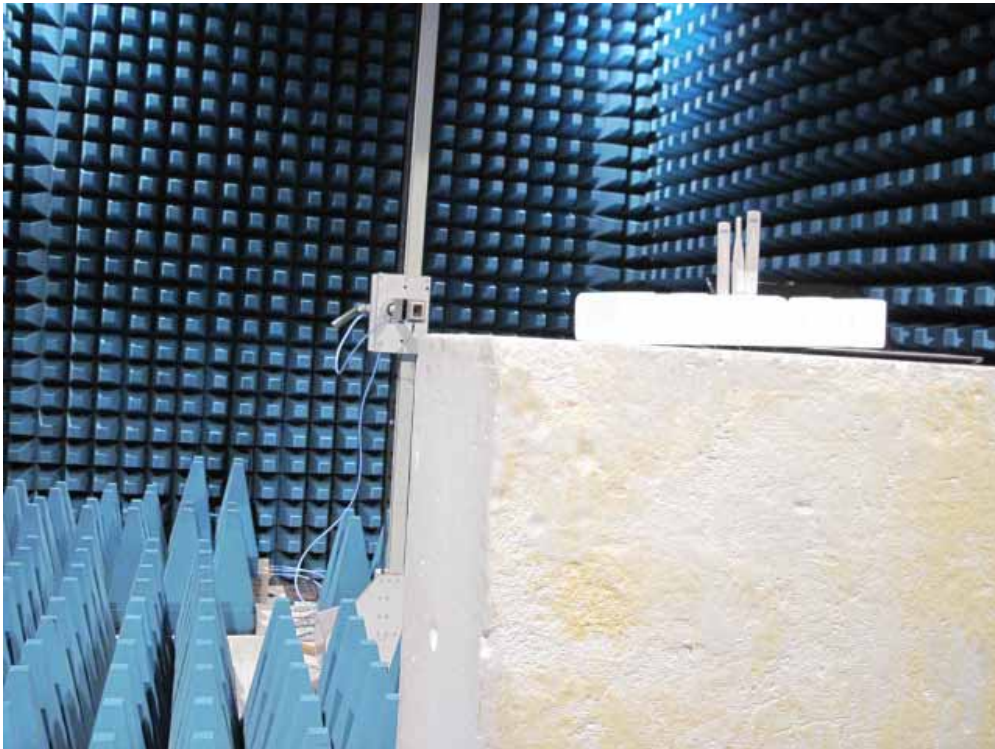
Description: Transmitter Spurious Emissions Test Setup for Below 1GHz



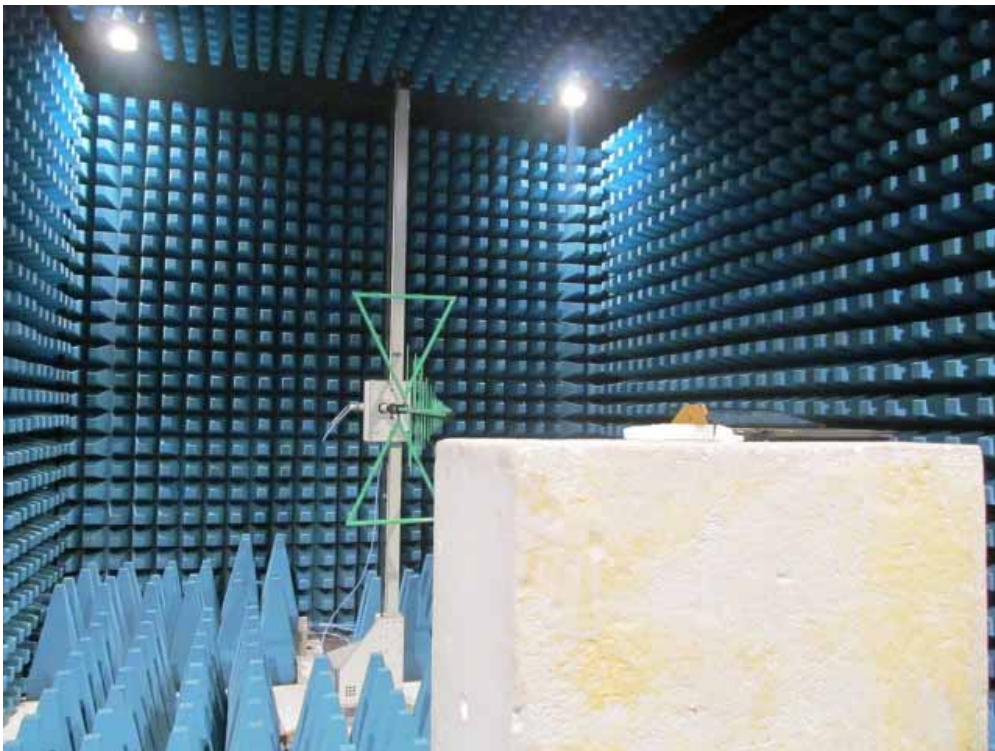
Description: Transmitter Spurious Emissions Test Setup for 1~18GHz



Description: Transmitter Spurious Emissions Test Setup for 18~26.5GHz



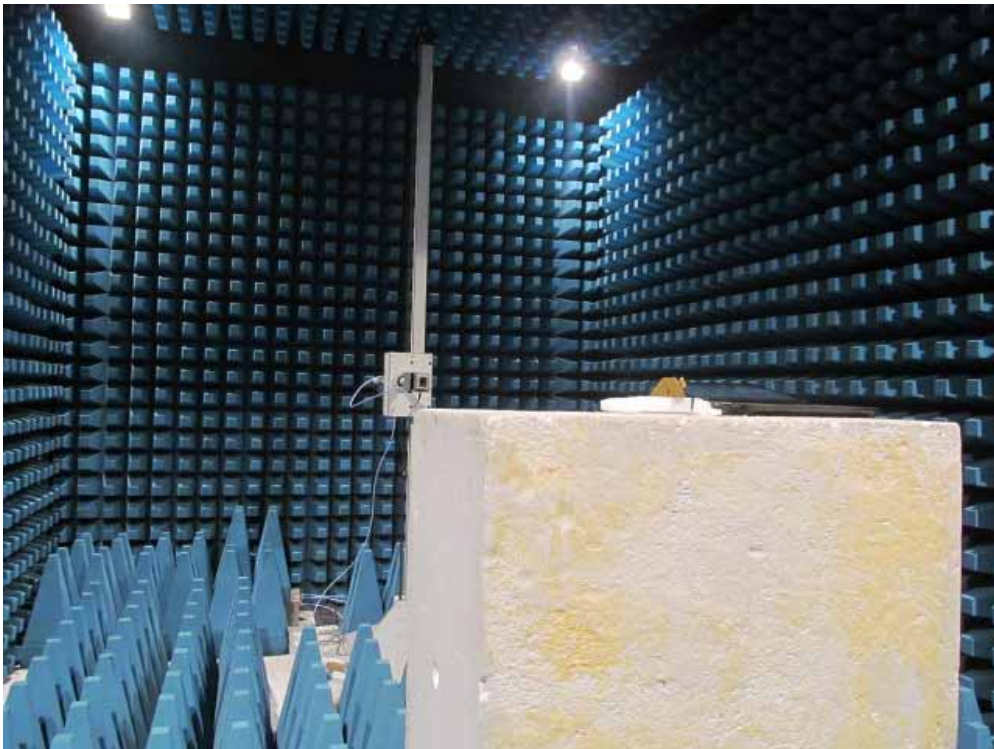
Description: Transmitter Spurious Emissions Test Setup for Below 1GHz



Description: Transmitter Spurious Emissions Test Setup for 1~18GHz



Description: Transmitter Spurious Emissions Test Setup for 18~26.5GHz



7. Transmitter Unwanted Emissions Within the 5GHz RLAN Bands

7.1. Test Equipment

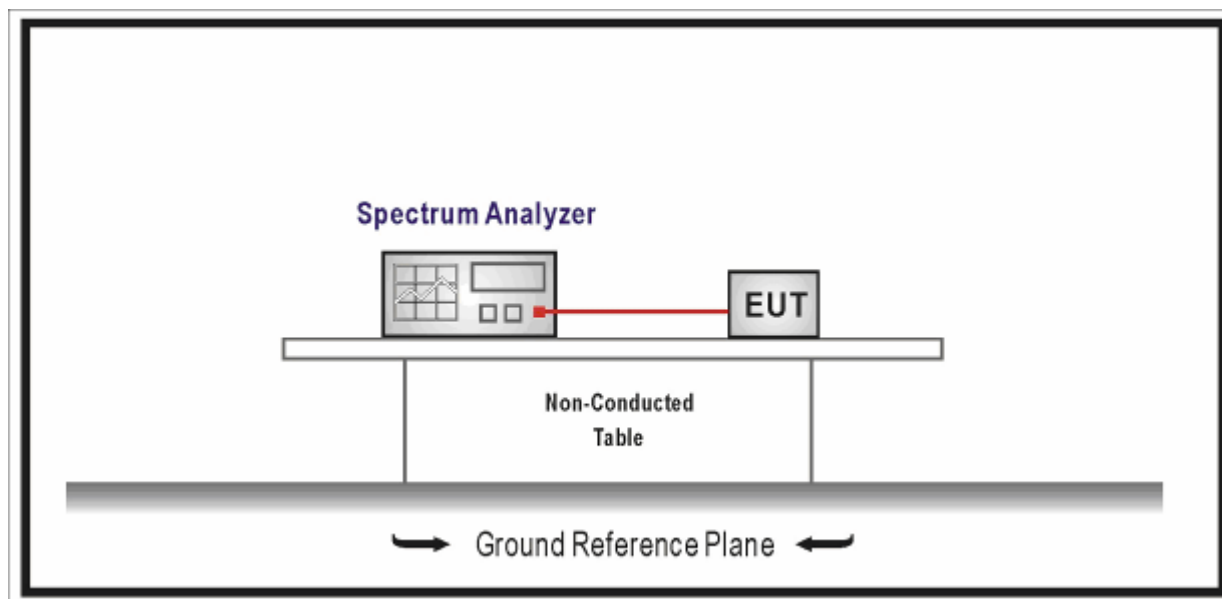
Transmitter Unwanted Emissions Within the 5GHz RLAN Bands / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
Temperature/Humidity Meter	Zhicheng	ZC1-2	TR8-TH	2013.05.07

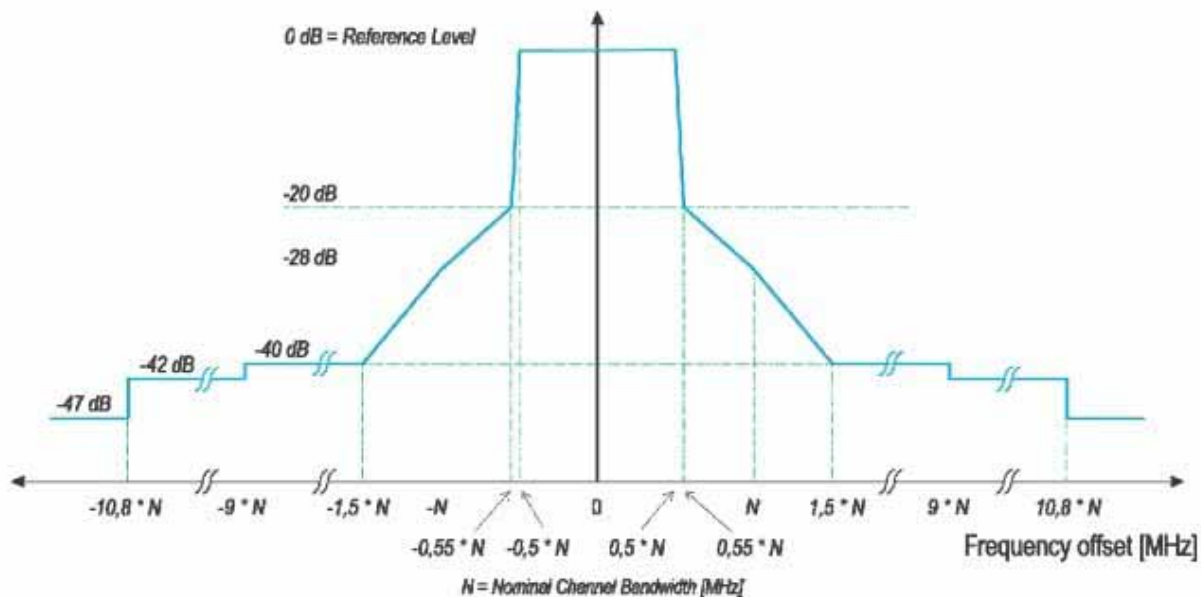
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup

For Conducted Measurement



7.3. Limit



NOTE: dBc is the spectral density relative to the maximum spectral power density of the transmitted signal.

Figure 1: Transmit spectral power mask

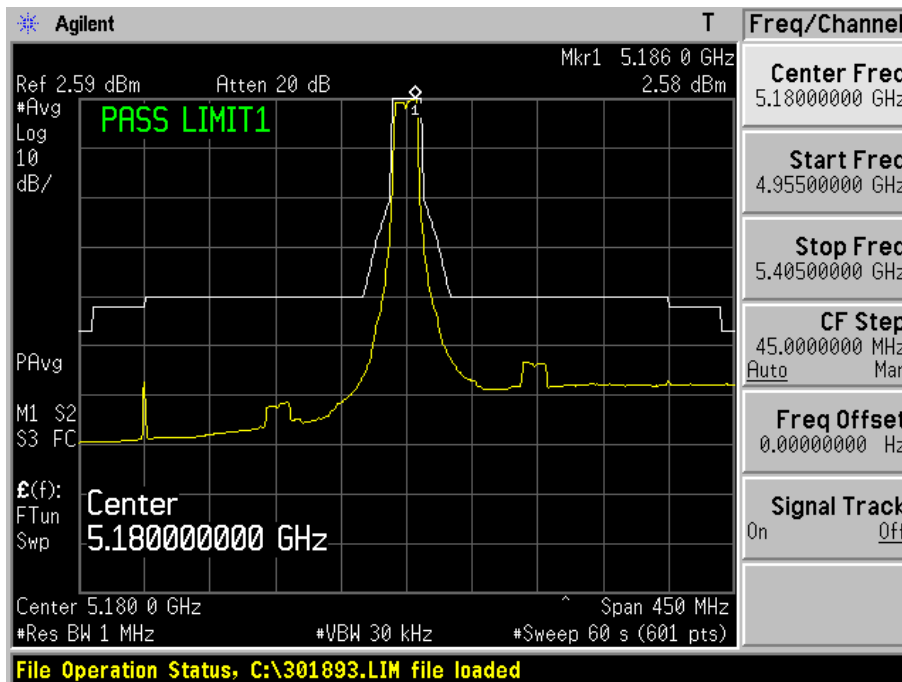
7.4. Test Procedure

Refer to ETSI EN 301 893 V1.7.1 (2012-06) Clause 5.3.6

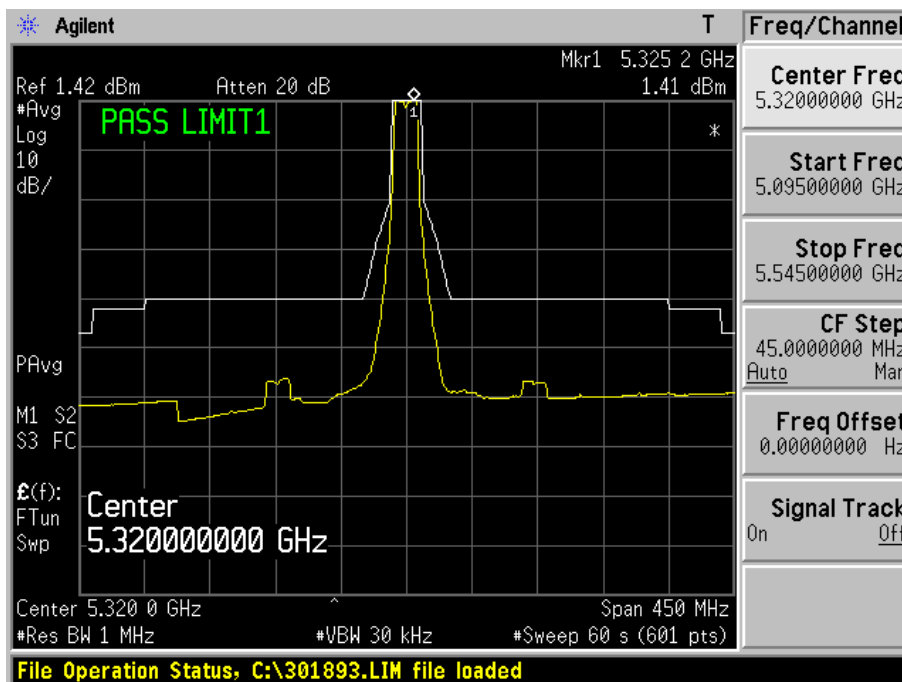
7.5. Test Result

Product	:	WLE350NX
Test Item	:	Transmitter Unwanted Emissions Within the 5GHz RLAN Bands
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 0)

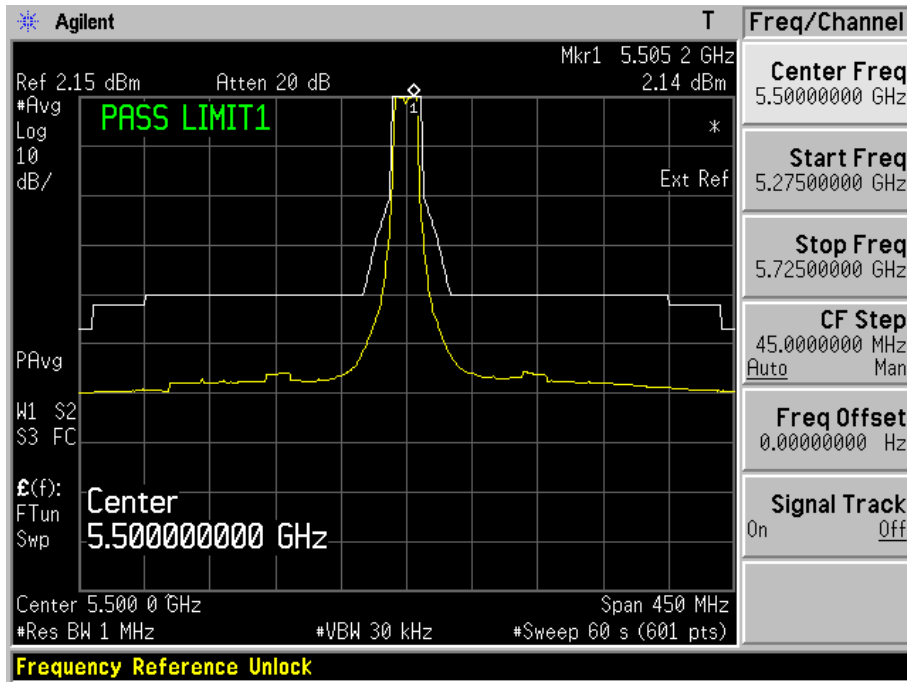
Channel 36



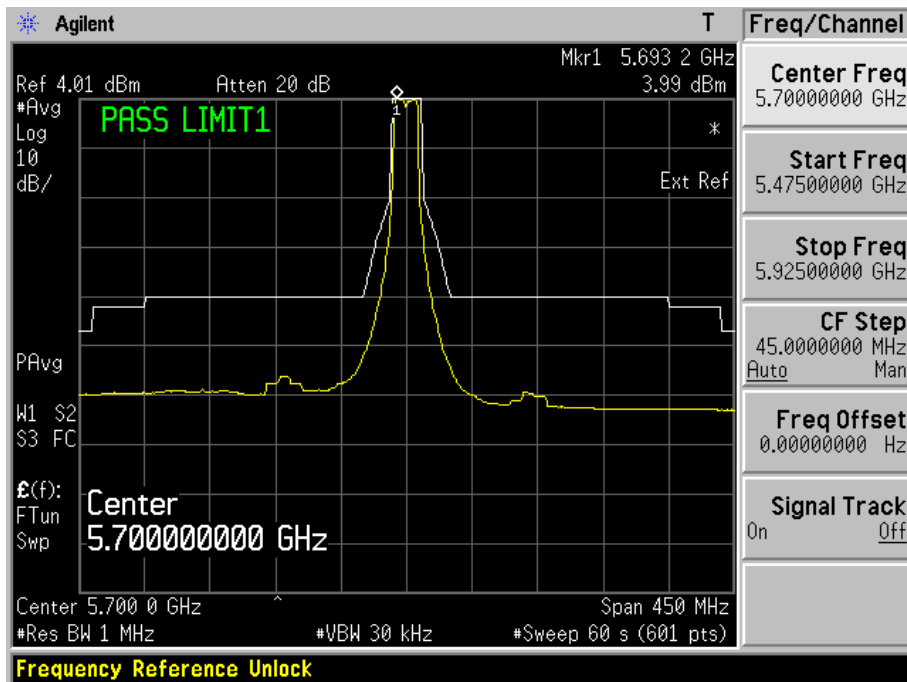
Channel 64



Channel 100

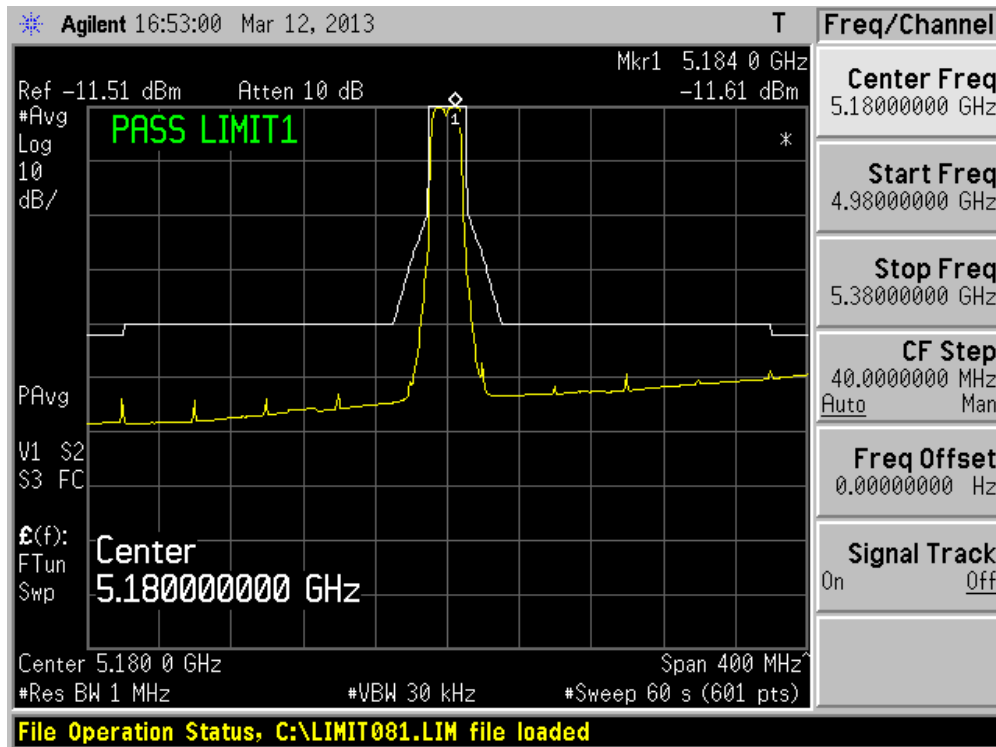


Channel 140

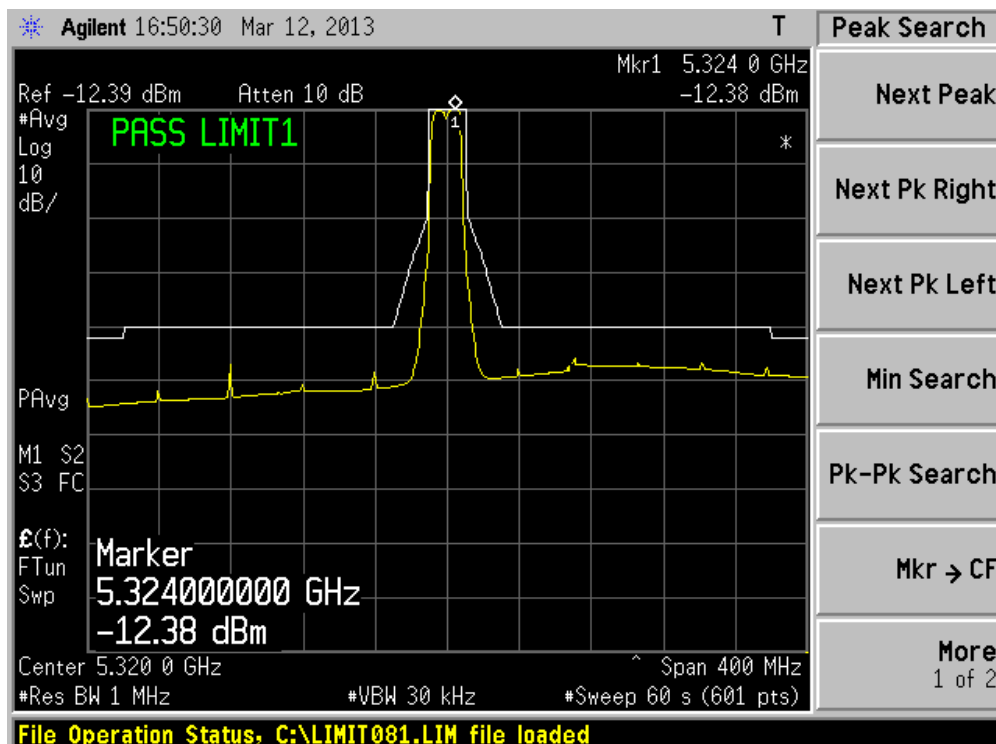


Product	: WLE350NX
Test Item	: Transmitter Unwanted Emissions Within the 5GHz RLAN Bands
Test Site	: TR-8
Test Mode	: Mode 1: Transmit by 802.11a(Chain 1)

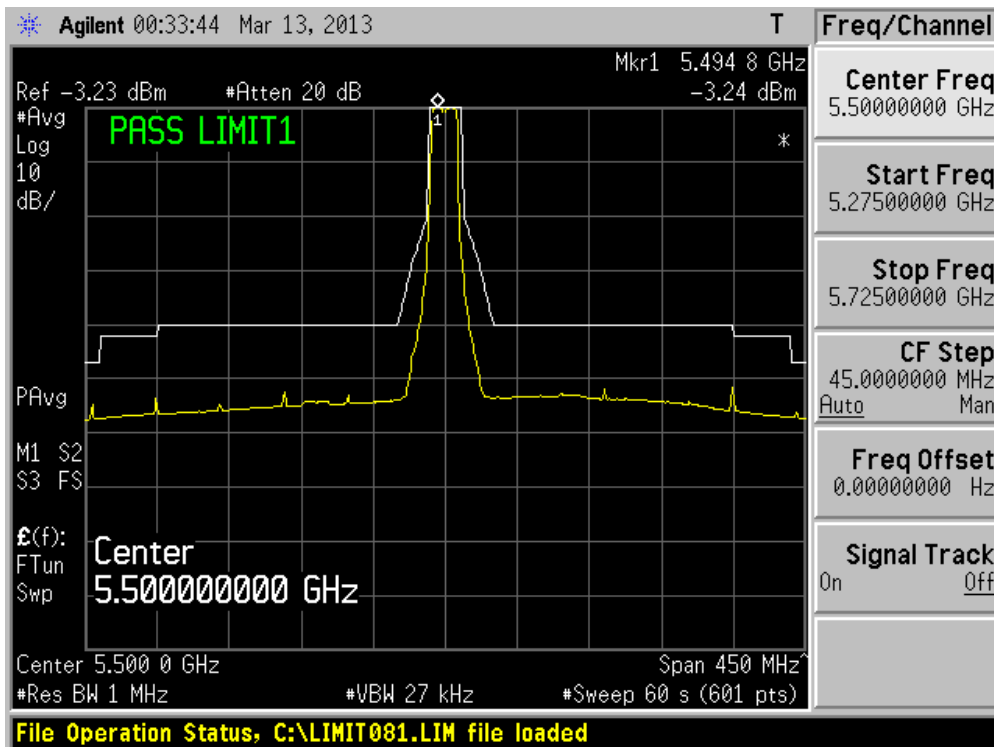
Channel 36



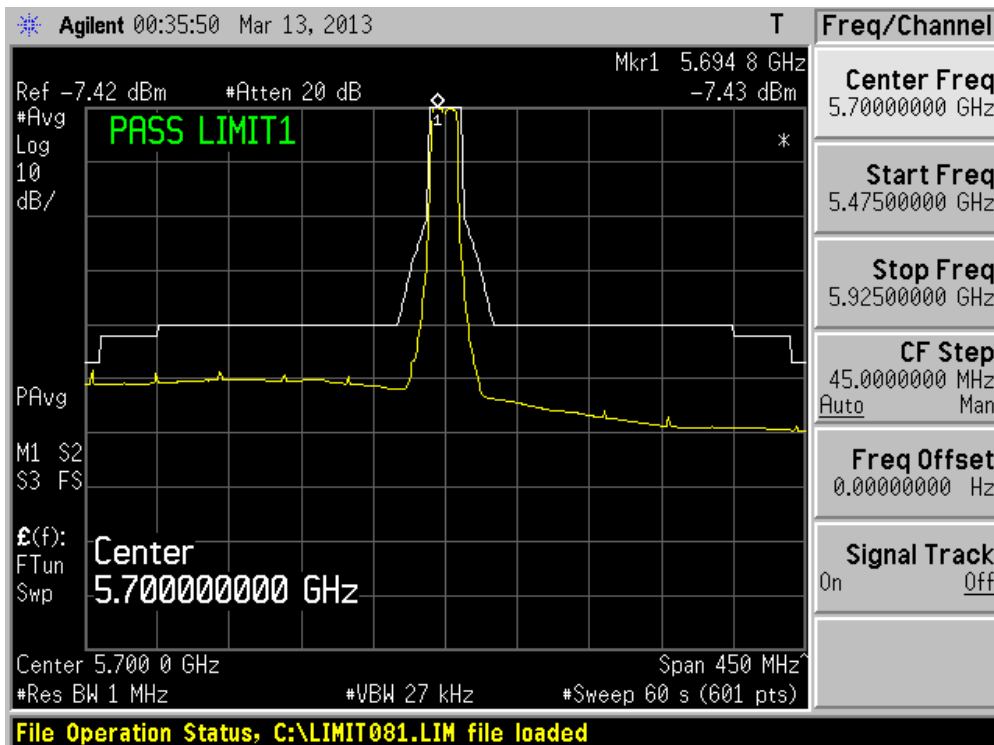
Channel 64



Channel 100

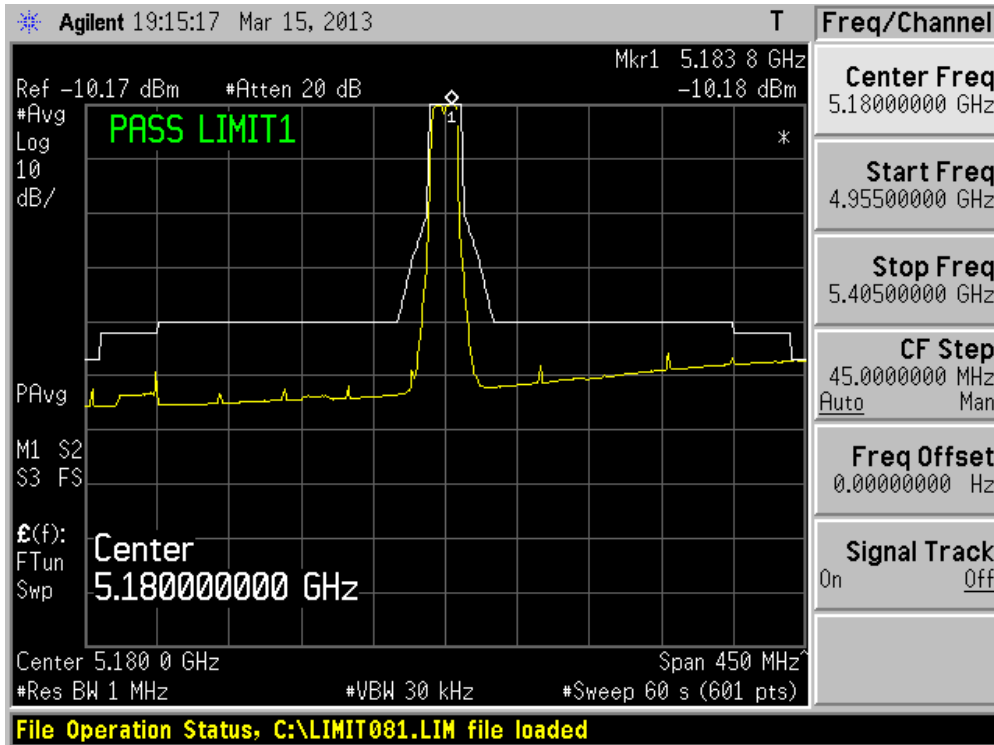


Channel 140

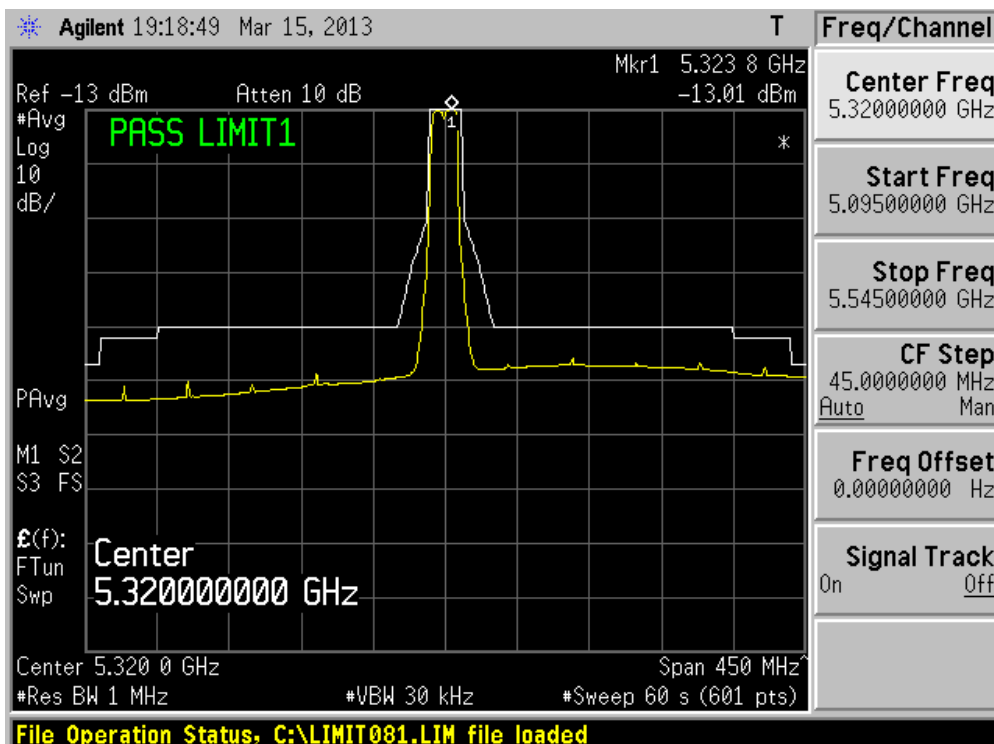


Product	:	WLE350NX
Test Item	:	Transmitter Unwanted Emissions Within the 5GHz RLAN Bands
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a(Chain 2)

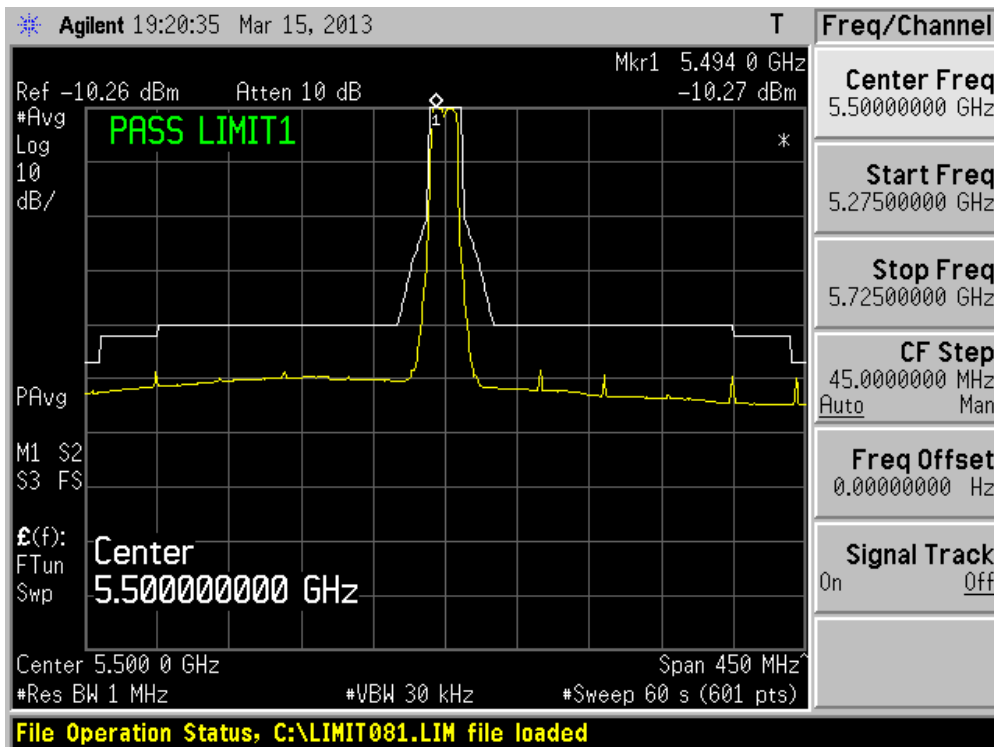
Channel 36



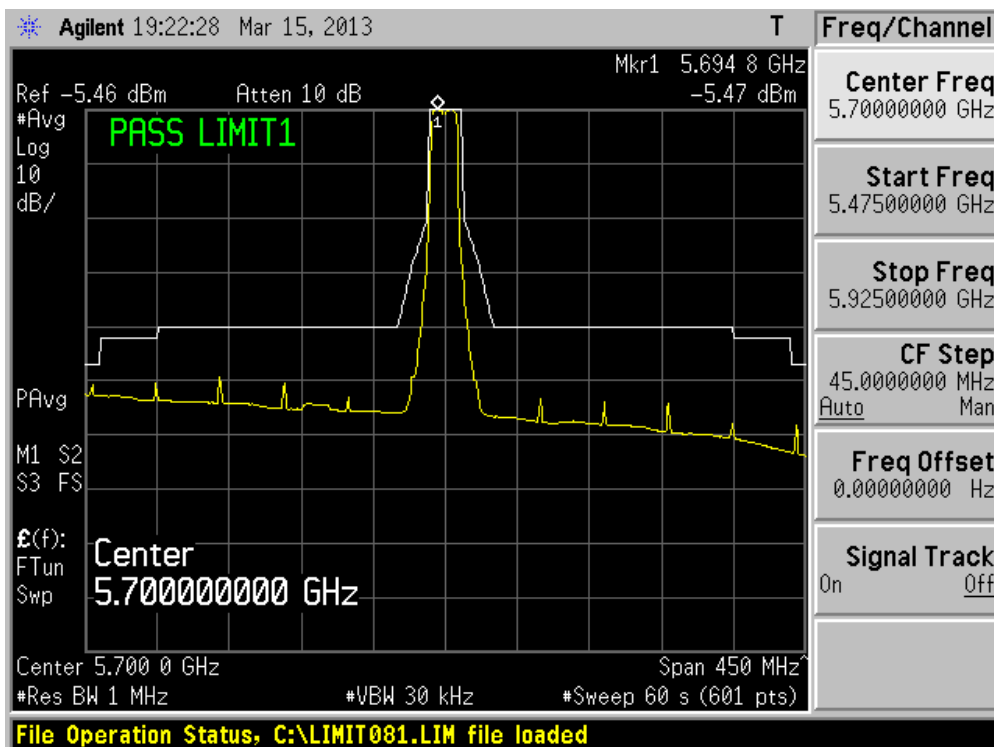
Channel 64



Channel 100

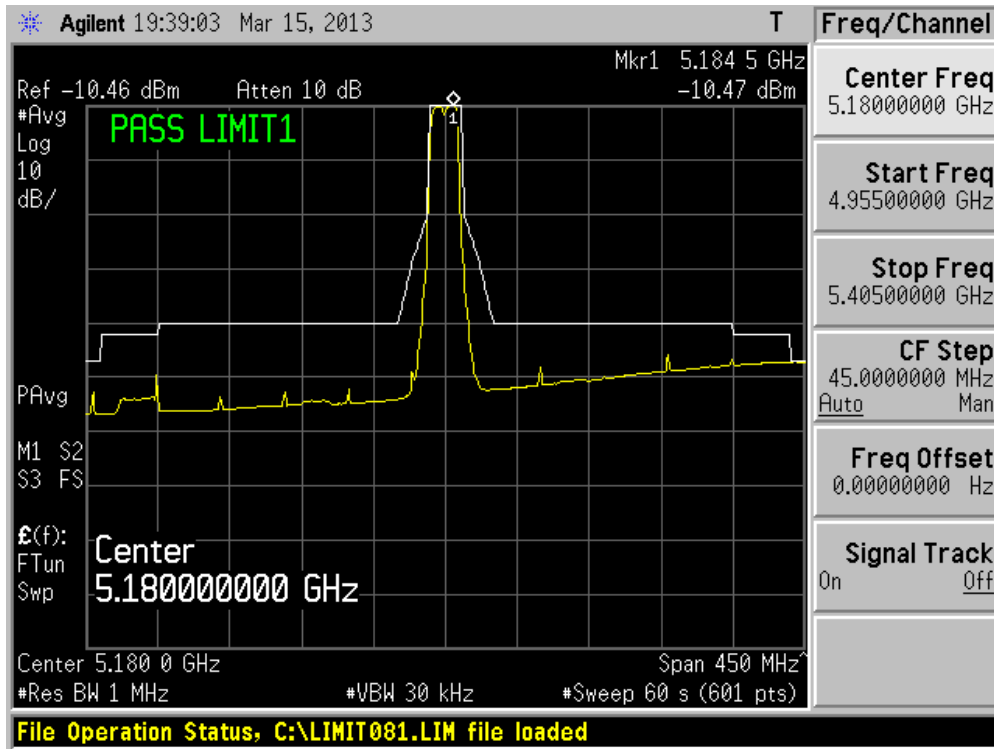


Channel 140

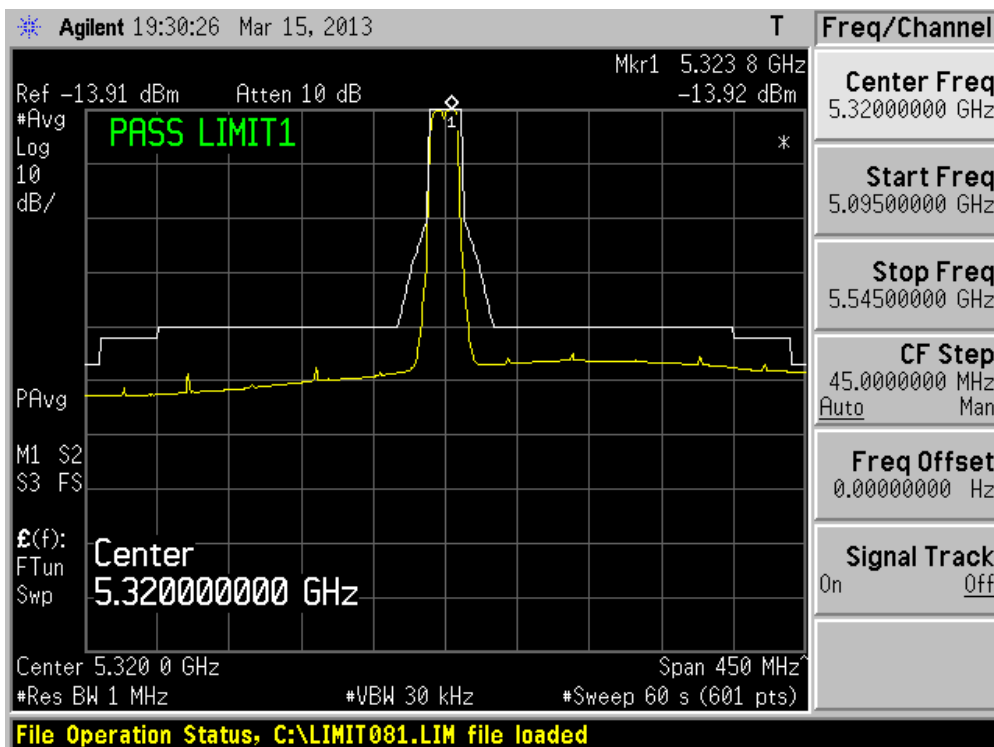


Product	: WLE350NX
Test Item	: Transmitter Unwanted Emissions Within the 5GHz RLAN Bands
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11n(20MHz) (Chain 0)

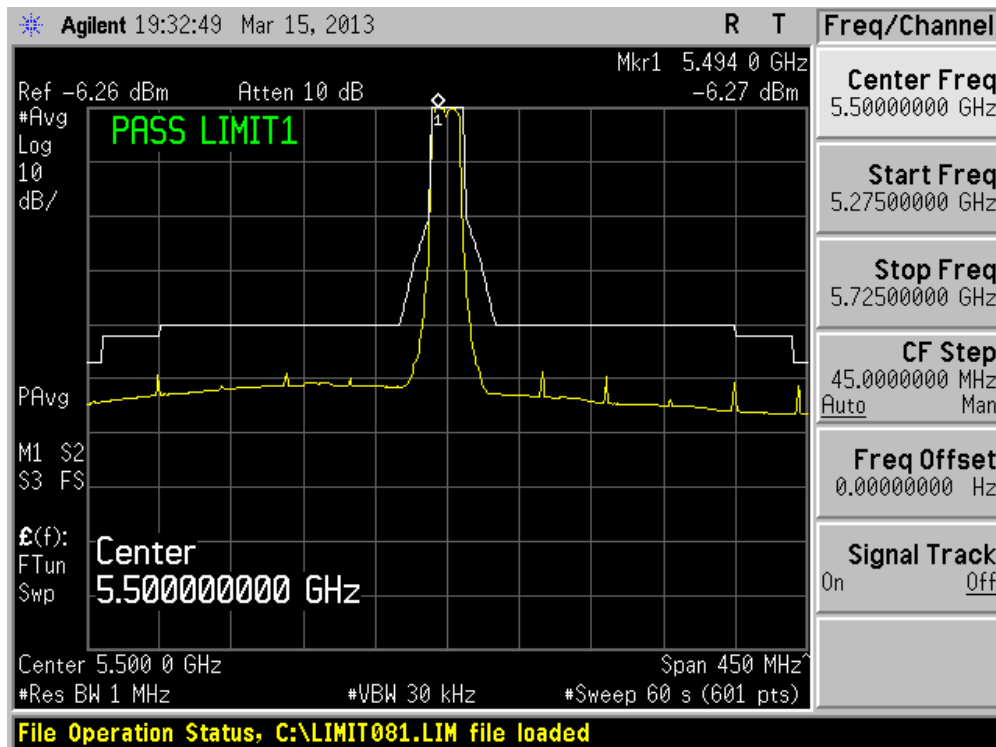
Channel 36



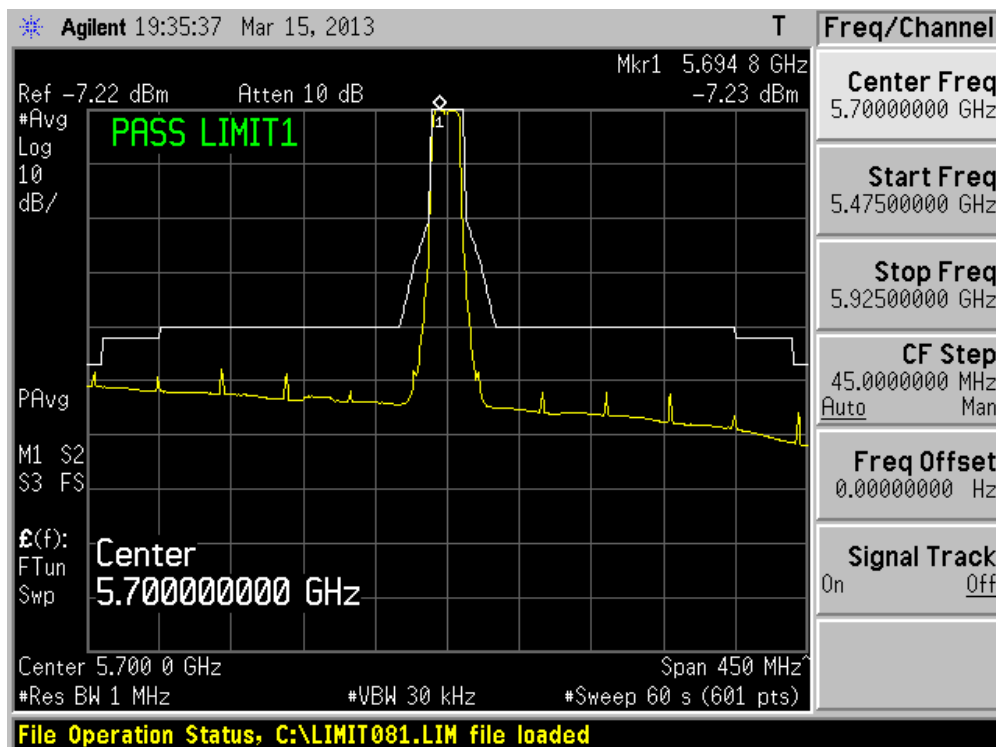
Channel 64



Channel 100

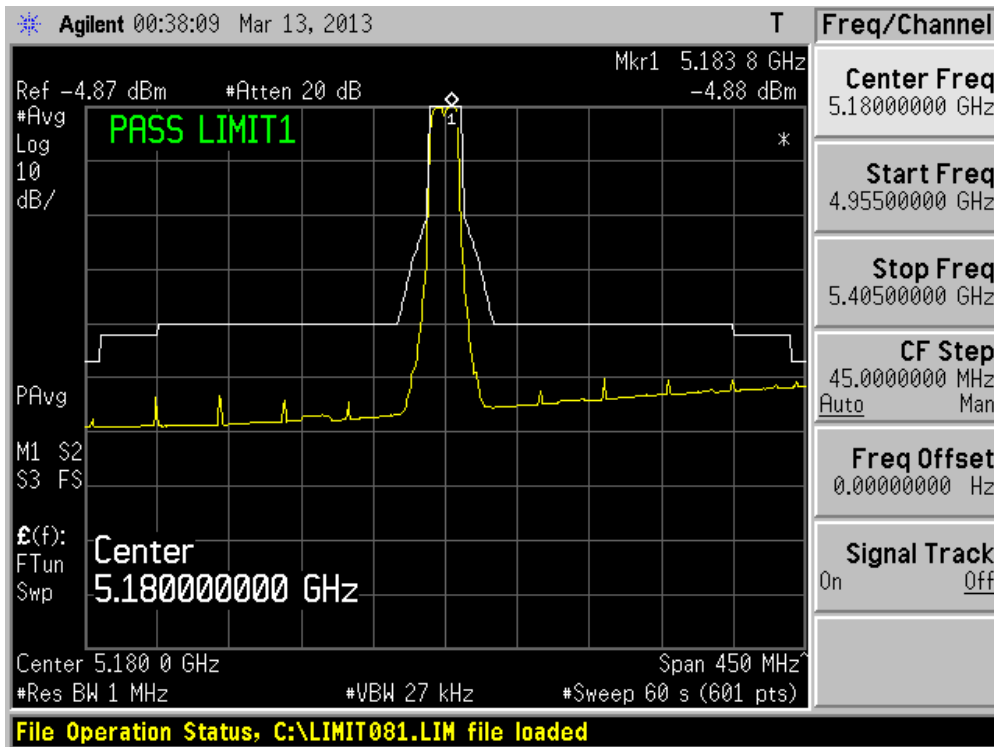


Channel 140

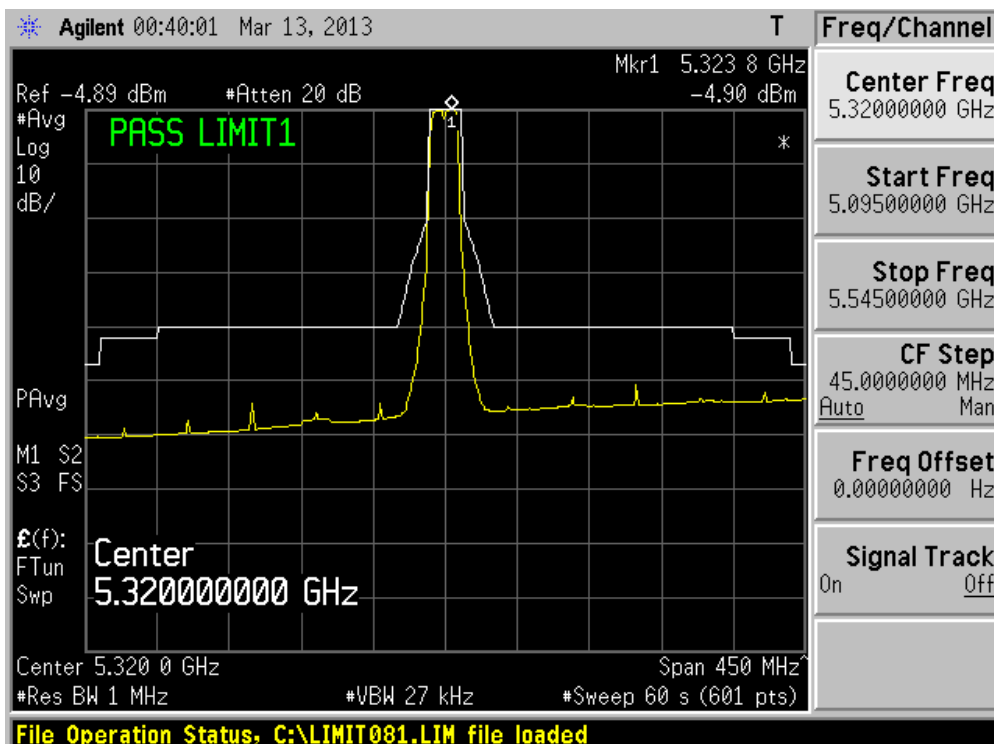


Product	: WLE350NX
Test Item	: Transmitter Unwanted Emissions Within the 5GHz RLAN Bands
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11n(20MHz) (Chain 1)

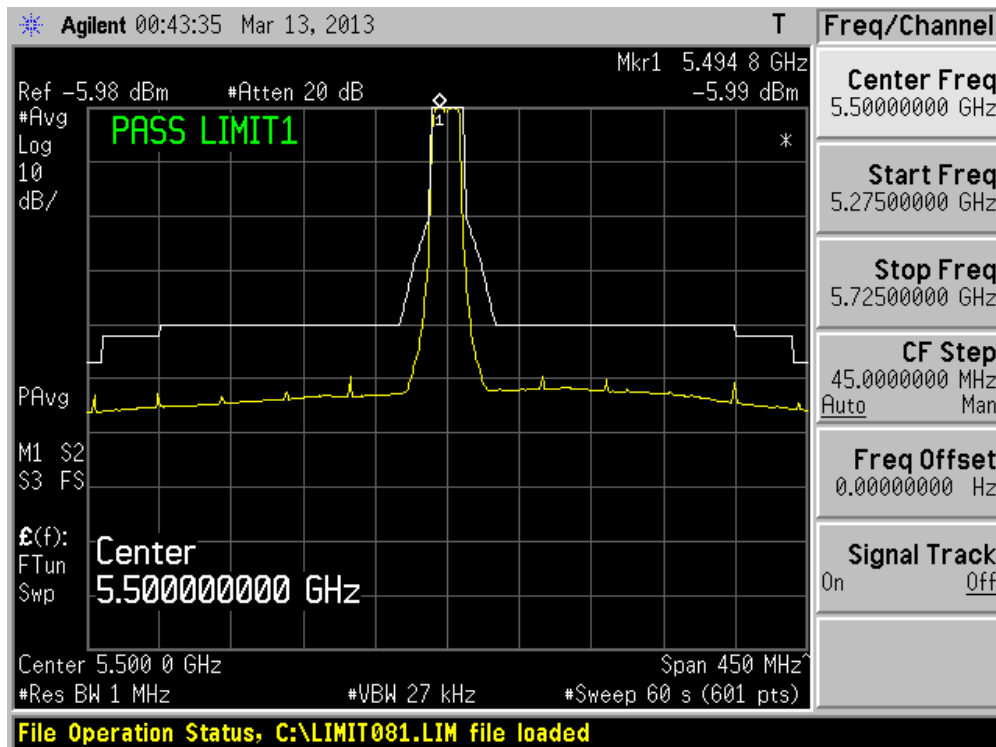
Channel 36



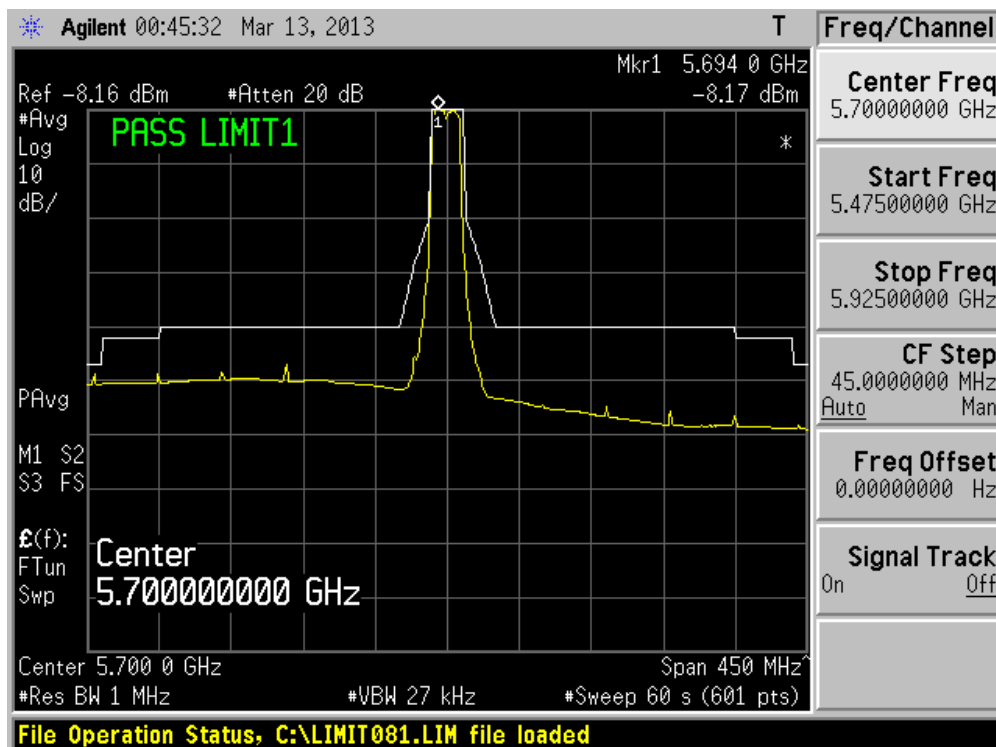
Channel 64



Channel 100

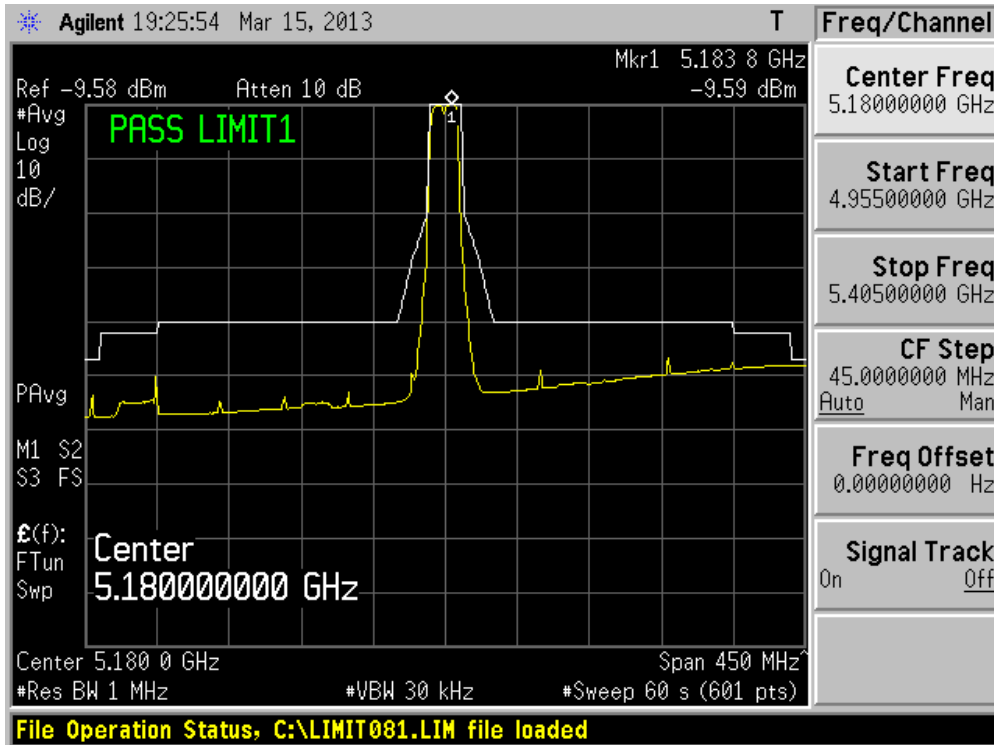


Channel 140

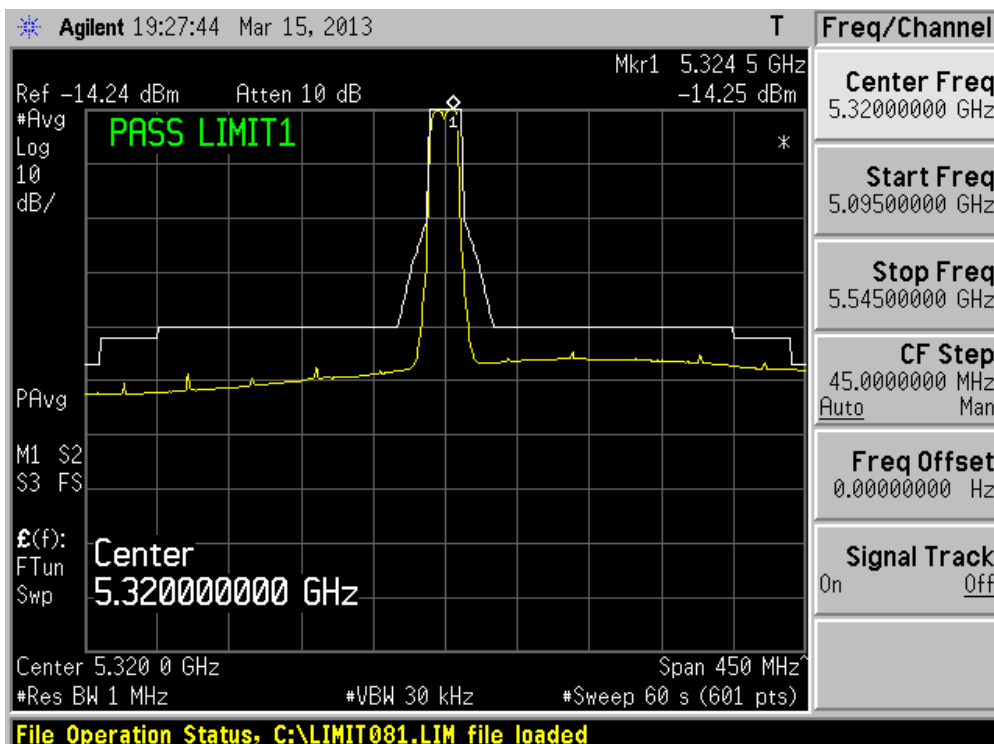


Product	: WLE350NX
Test Item	: Transmitter Unwanted Emissions Within the 5GHz RLAN Bands
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11n20 (Chain 2)

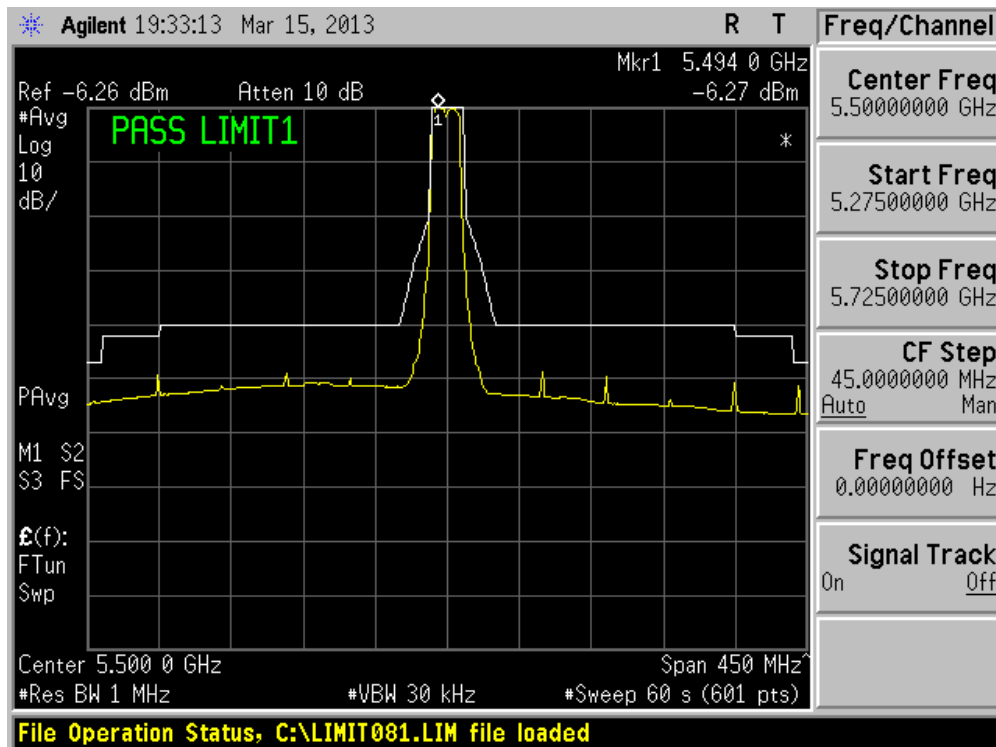
Channel 36



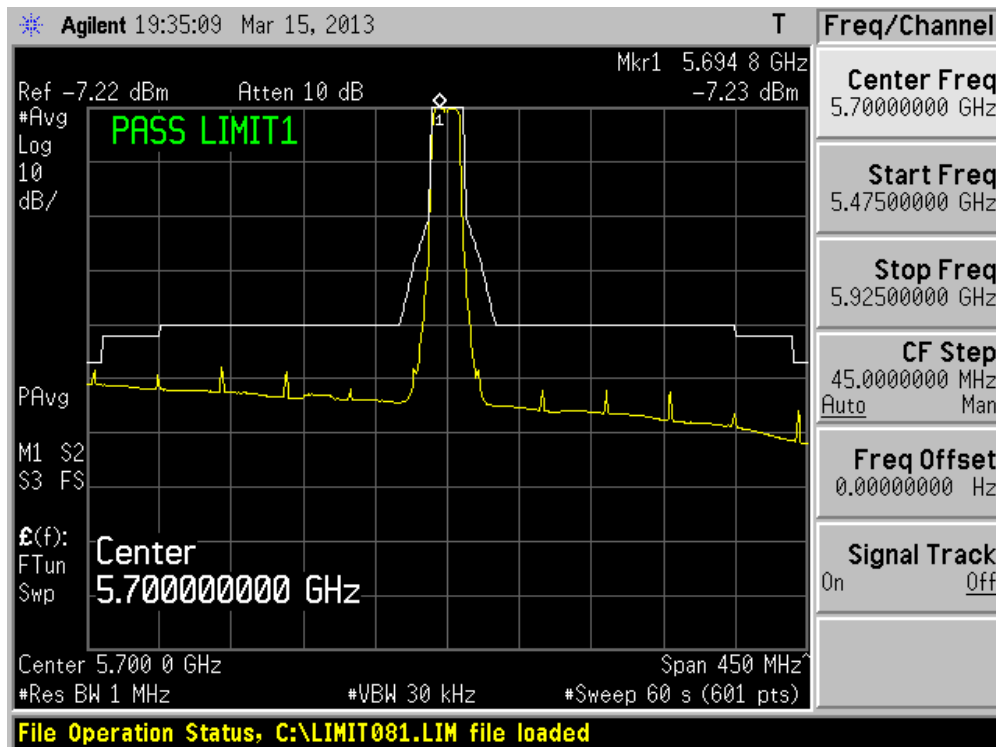
Channel 64



Channel 100

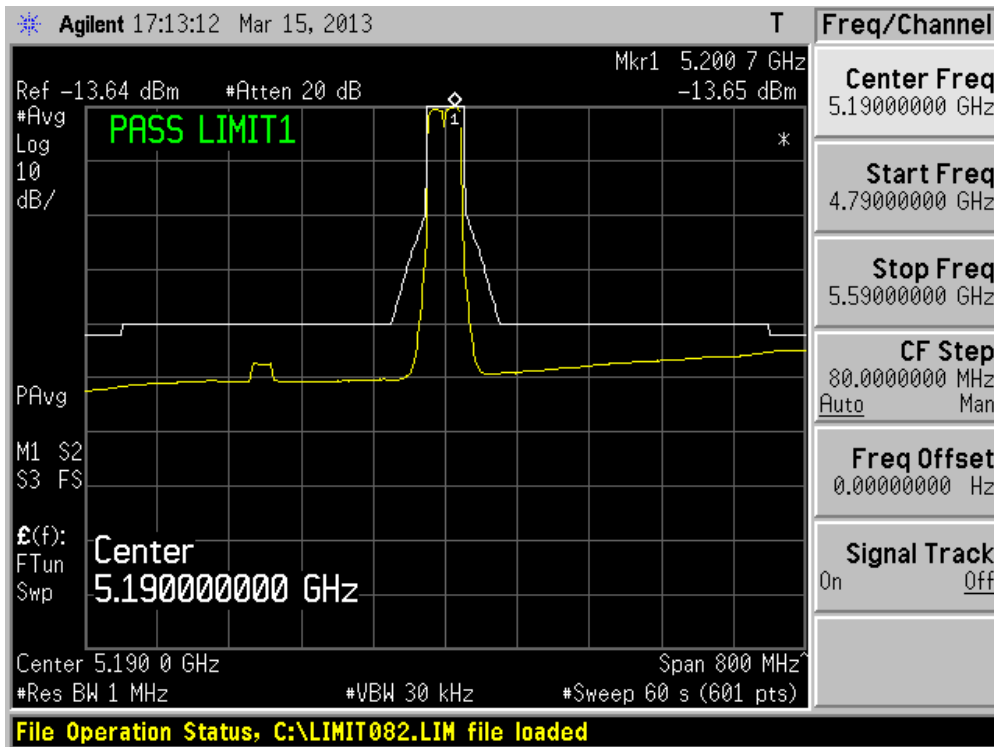


Channel 140

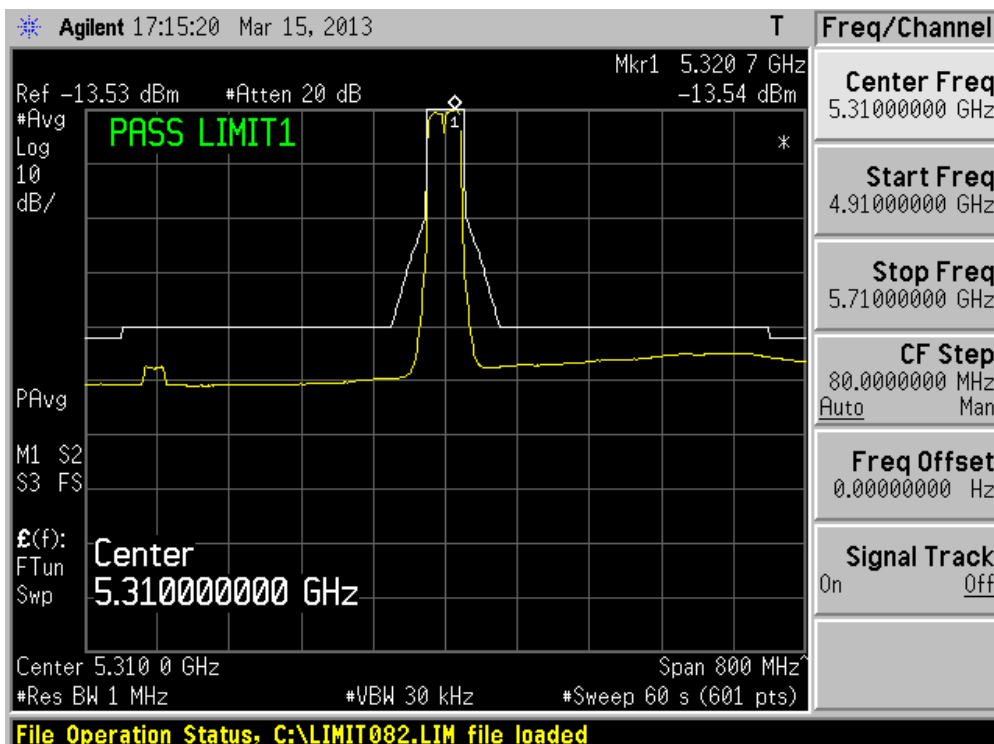


Product	: WLE350NX
Test Item	: Transmitter Unwanted Emissions Within the 5GHz RLAN Bands
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n(40MHz) (Chain0)

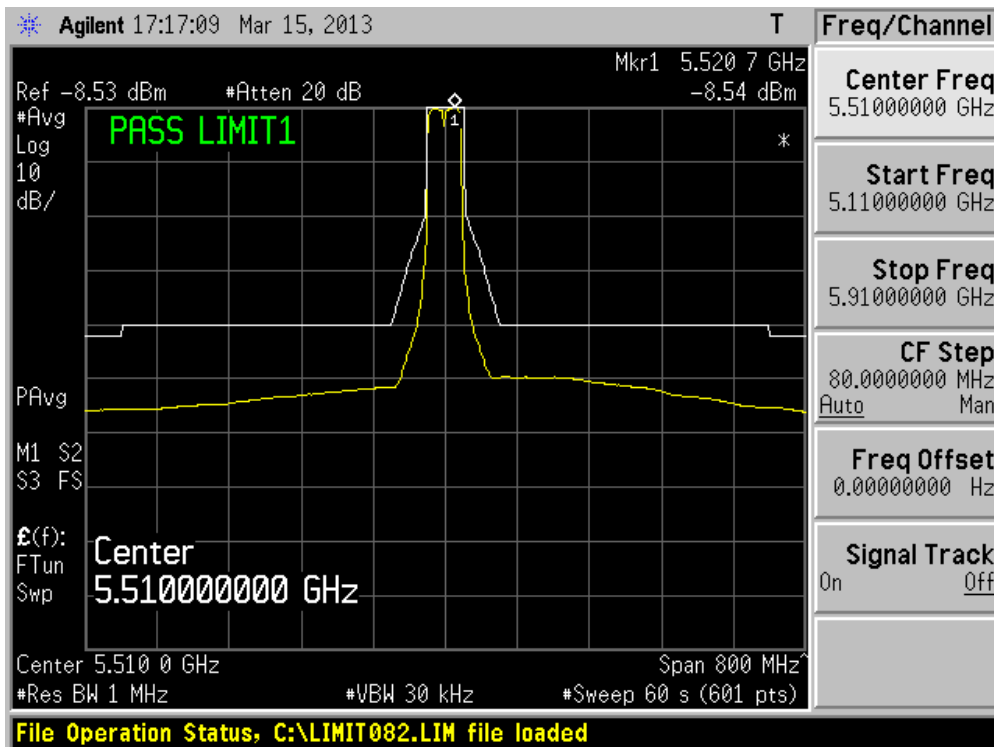
Channel 38



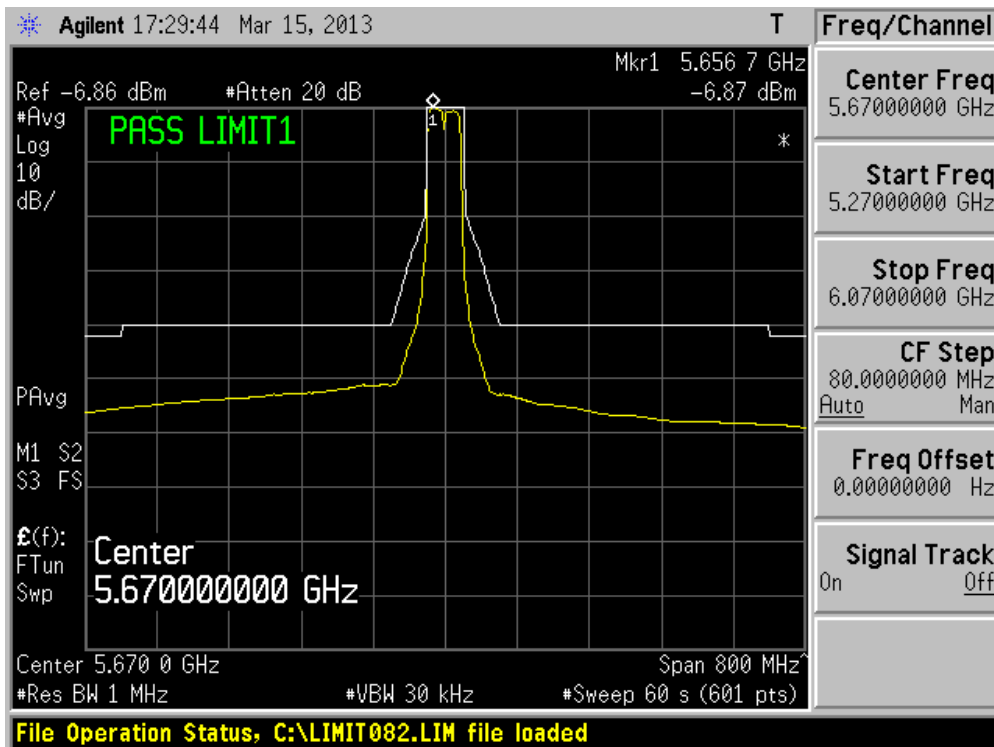
Channel 62



Channel 102

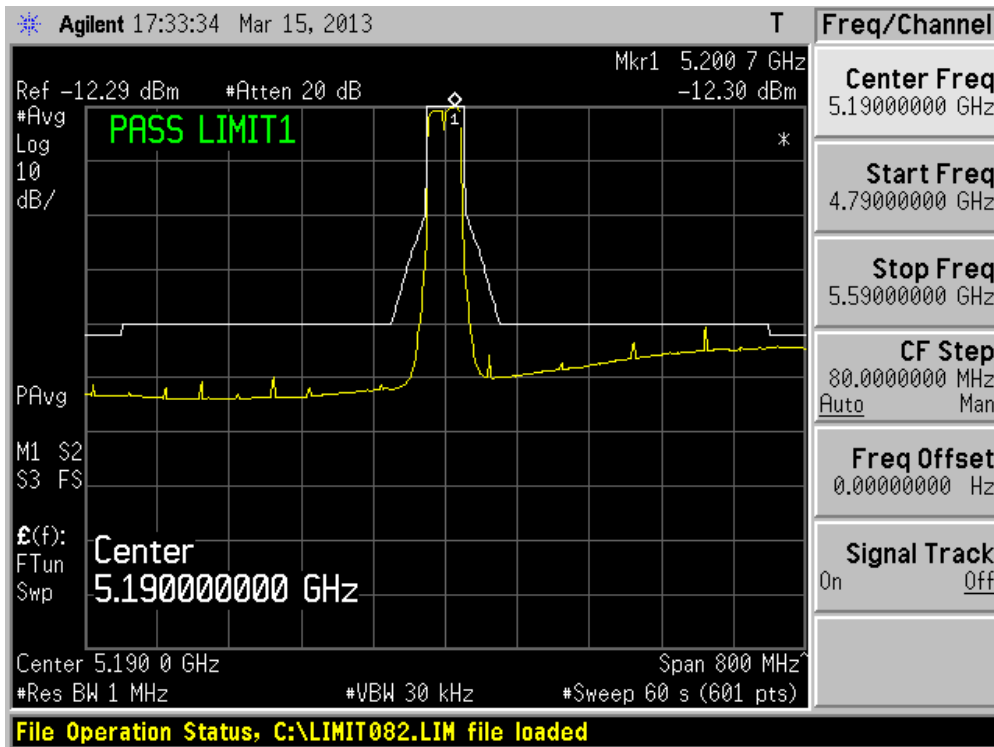


Channel 134

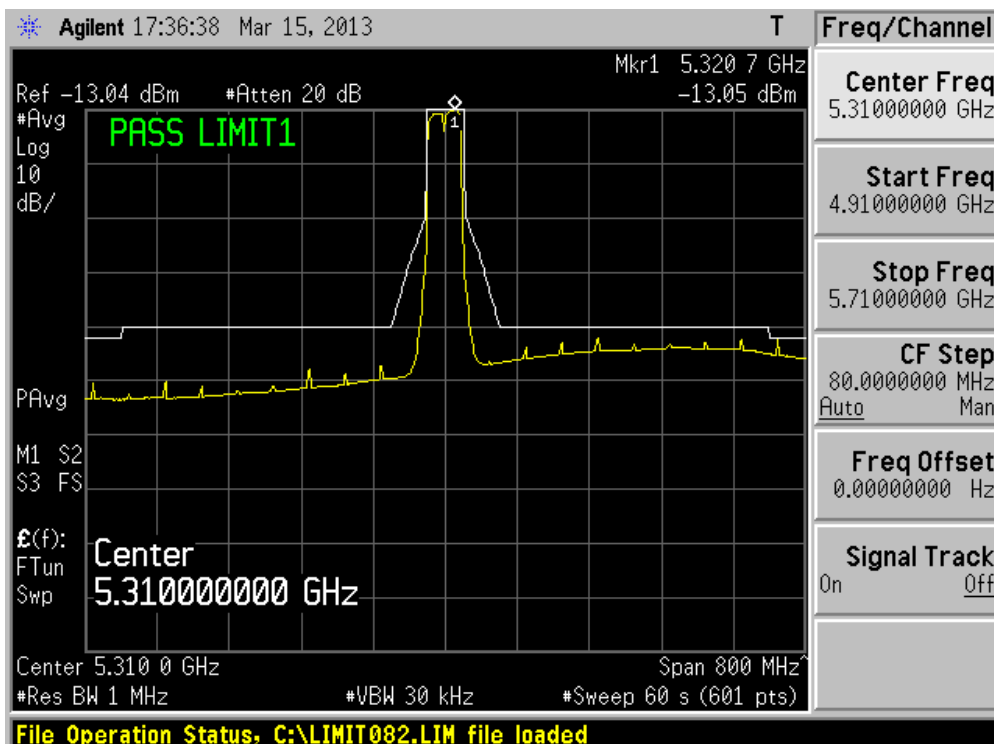


Product	: WLE350NX
Test Item	: Transmitter Unwanted Emissions Within the 5GHz RLAN Bands
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n(40MHz) (Chain 1)

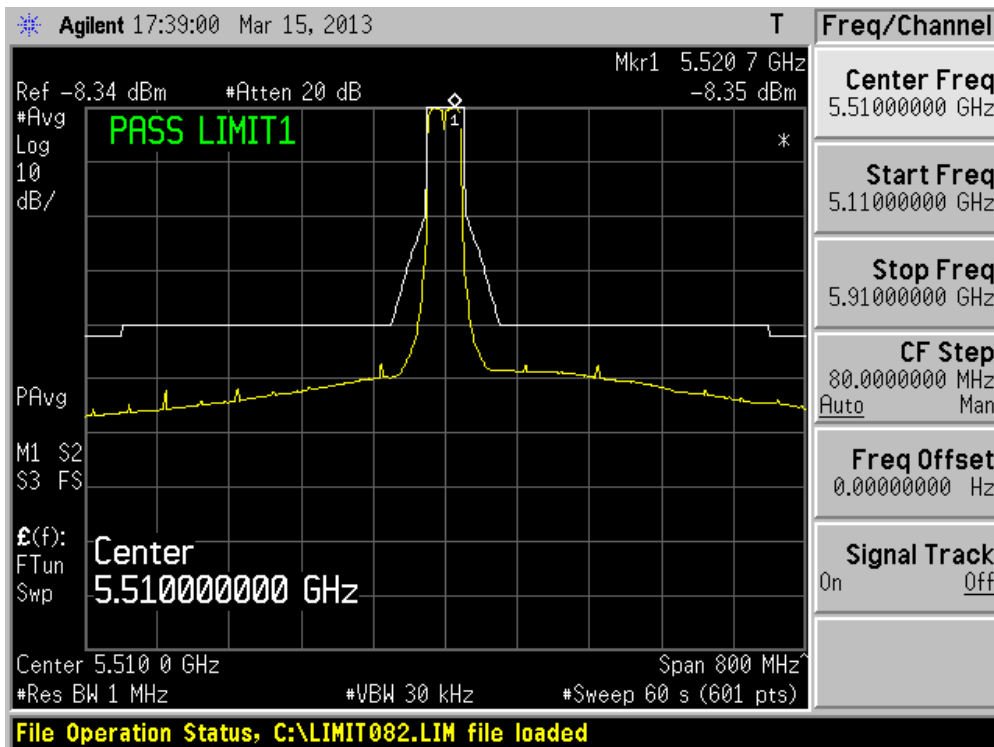
Channel 38



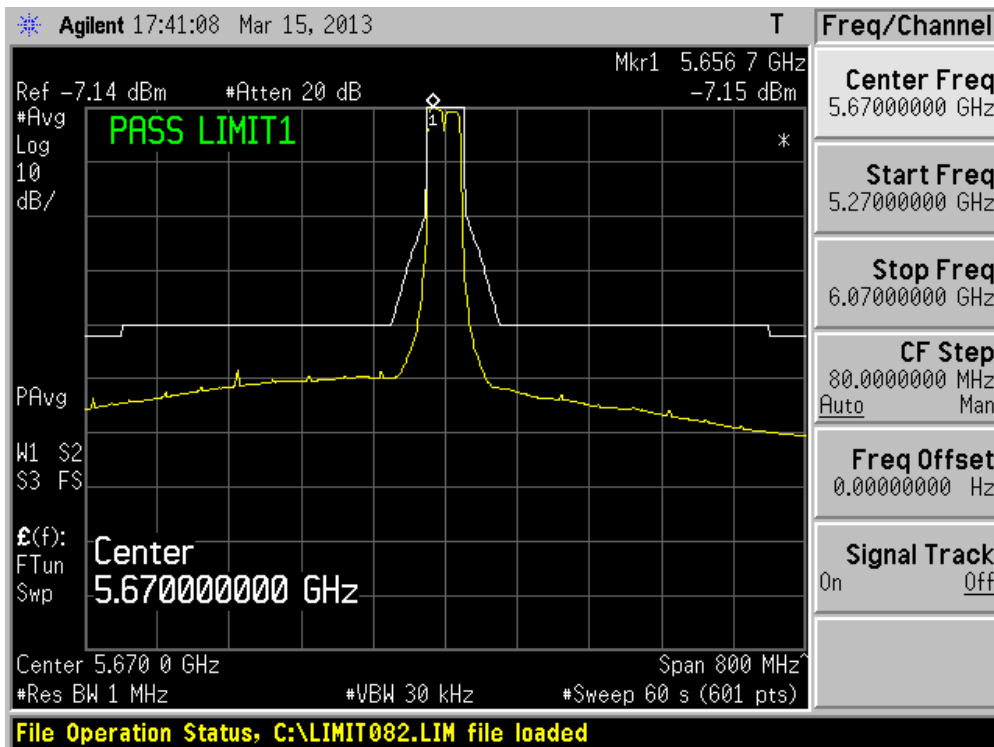
Channel 62



Channel 102

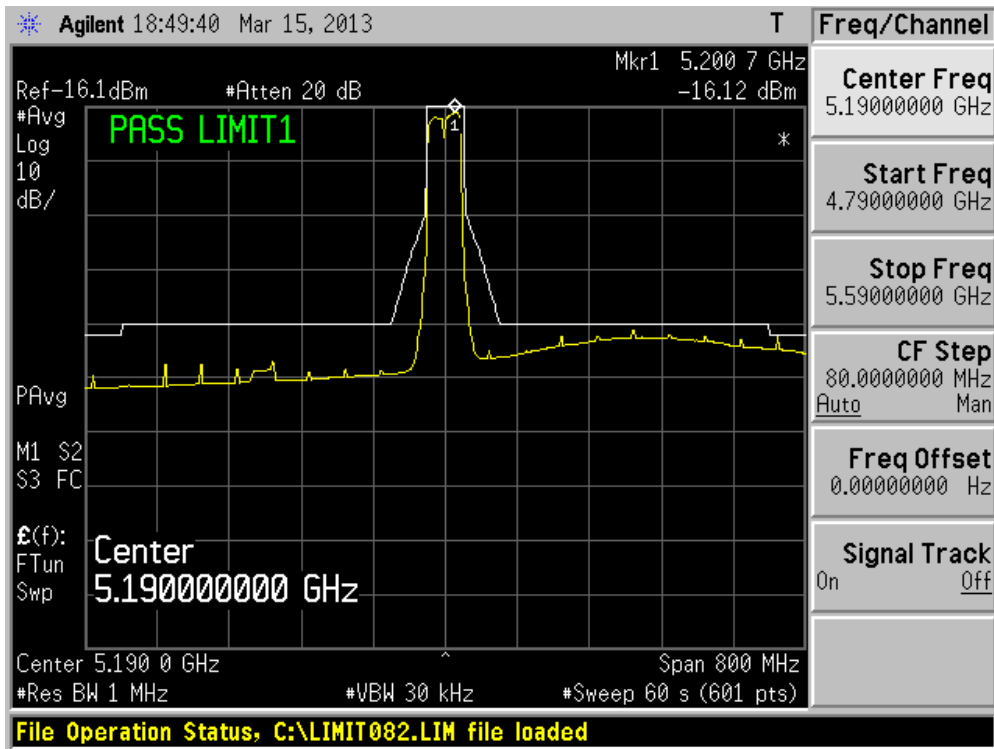


Channel 134

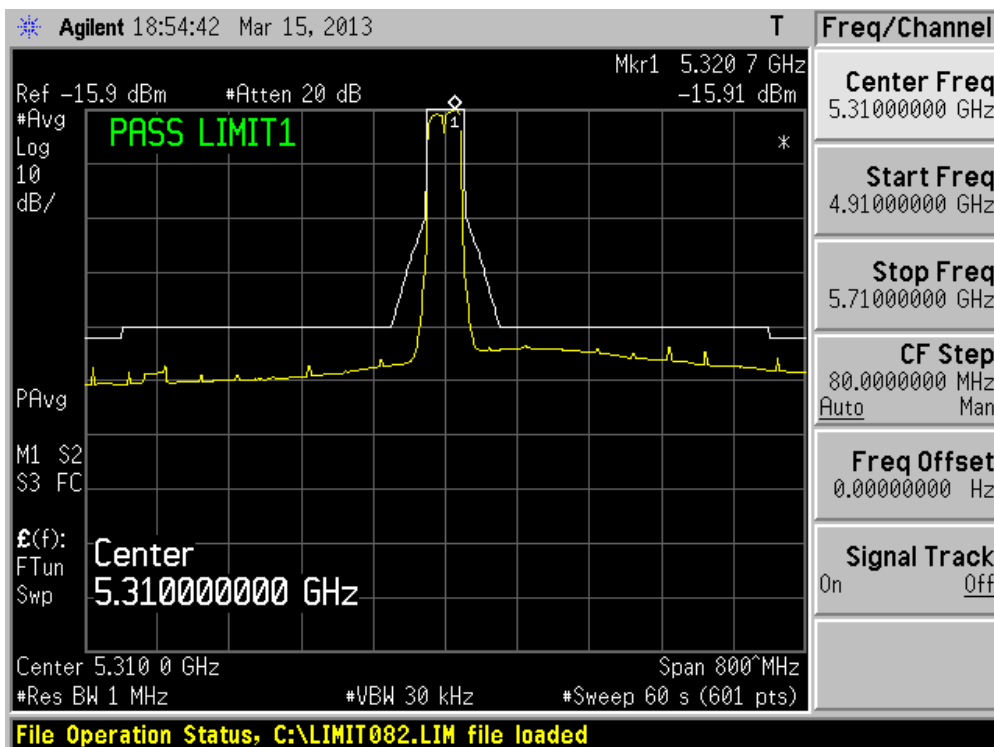


Product	: WLE350NX
Test Item	: Transmitter Unwanted Emissions Within the 5GHz RLAN Bands
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n(40MHz) (Chain 2)

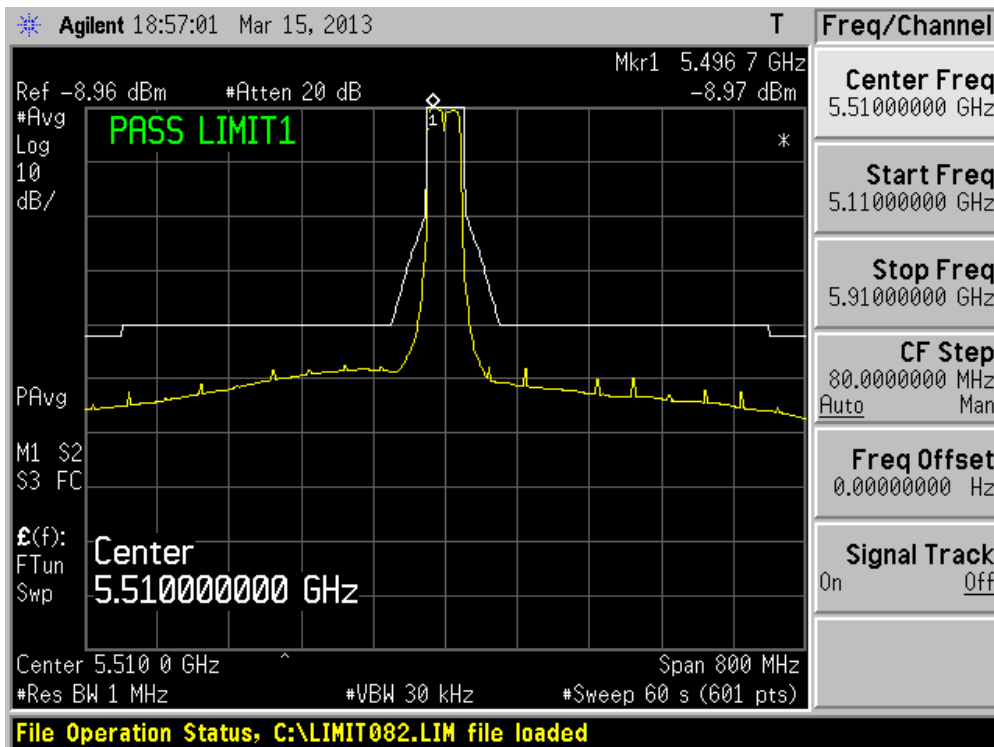
Channel 38



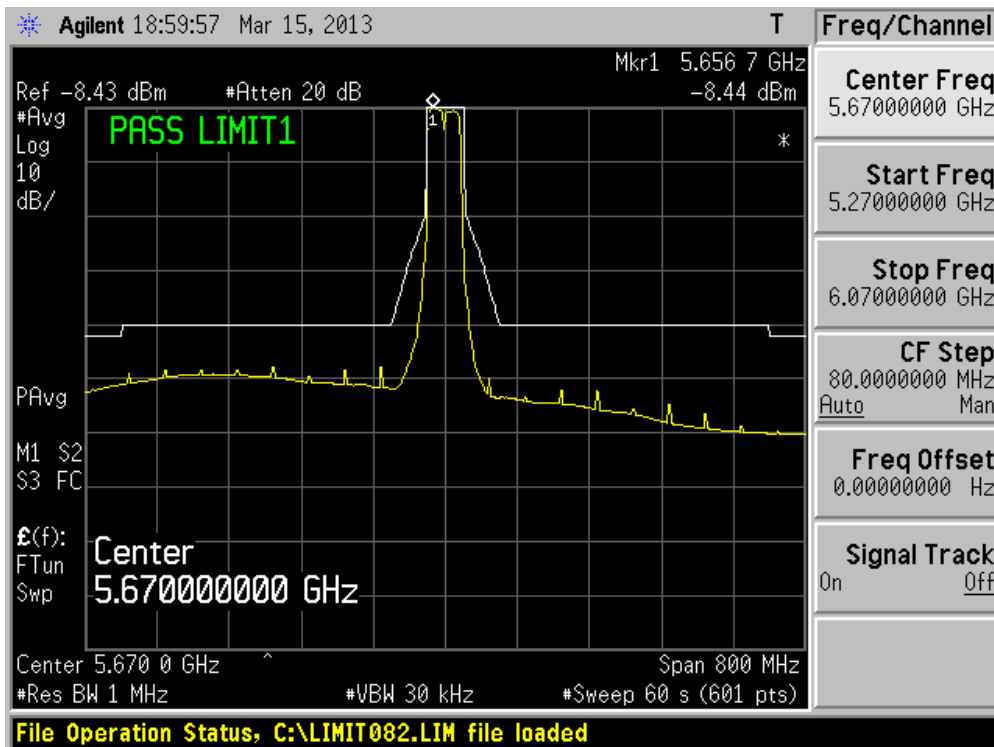
Channel 62



Channel 102



Channel 134



8. Receiver Spurious Emissions

8.1. Test Equipment

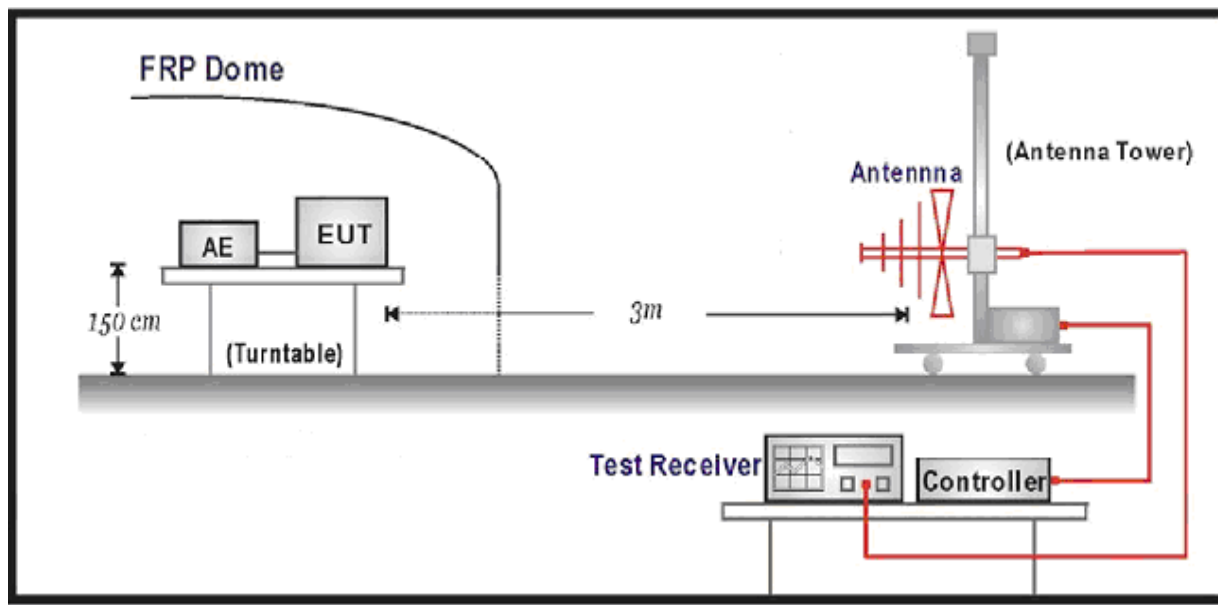
Receiver Spurious Emissions / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
Spectrum Analyzer	Agilent	E4440A	MY49420184	2014/03/30
PSG Analog S.G.	Agilent	E8257D	MY44321116	2014/03/30
Preamplifier	Agilent	8449B	3008A02597	2014/04/10
Bilog Antenna	Schaffner	CBL6112B	2932	2013/10/15
Half Wave Tuned Dipole Antenna	COM-POWER	AD-100	40137	2013/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2013/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2014/06/08
Filter Banks	Quietek	QTK-FB	AC6-FB	2013/05/04
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2014/01/11

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup

For Radiated Measurement



8.3. Limit

Frequency Range	Maximum Power E.R.P (\leq 1GHz) E.I.R.P (> 1GHz)	Measurement Bandwidth
30 MHz to 1GHz	-57 dBm	100 kHz
1 GHz to 26 GHz	-47 dBm	1 MHz

8.4. Test Procedure

Refer to ETSI EN 301 893 V1.7.1 (2012-06) Clause 5.3.7

8.5. Test Result

Test by panel antenna

Mode 4: Receive by 802.11n(20MHz)(Chain0+1+2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
137.4	H	-72.5	-36.0	-36.5	PK
171.8	V	-73.2	-36.0	-37.2	PK
221.4	H	-72.9	-36.0	-36.9	PK
265.5	V	-74.2	-36.0	-38.2	PK
1295.4	H	-55.3	-47.0	-8.3	PK
1495.2	V	-54.3	-47.0	-7.3	PK
1599.3	H	-53.4	-47.0	-6.4	PK
1724.7	V	-55.2	-47.0	-8.2	PK
Channel 64 (5320MHz)					
365.7	H	-71.9	-36.0	-35.9	PK
432.0	V	-69.3	-36.0	-33.3	PK
530.9	H	-71.6	-36.0	-35.6	PK
639.5	V	-71.0	-36.0	-35.0	PK
1197.7	H	-55.0	-47.0	-8.0	PK
1444.2	V	-56.4	-47.0	-9.4	PK
1639.7	H	-56.8	-47.0	-9.8	PK
1799.1	V	-55.3	-47.0	-8.3	PK
Channel 100 (5550MHz)					
172.1	H	-72.4	-36.0	-36.4	PK
239.9	V	-68.3	-36.0	-32.3	PK
266.5	H	-71.9	-36.0	-35.9	PK
365.1	V	-69.8	-36.0	-33.8	PK
1248.7	H	-54.6	-47.0	-7.6	PK
1429.3	V	-56.2	-47.0	-9.2	PK
1692.8	H	-54.8	-47.0	-7.8	PK
1807.6	V	-55.5	-47.0	-8.5	PK
Channel 140 (5700MHz)					
432.0	H	-69.0	-36.0	-33.0	PK
484.6	V	-68.6	-36.0	-32.6	PK
530.8	H	-68.8	-36.0	-32.8	PK

657.8	V	-69.5	-36.0	-33.5	PK
1195.5	H	-54.7	-47.0	-7.7	PK
1427.2	V	-54.2	-47.0	-7.2	PK
1792.7	H	-54.1	-47.0	-7.1	PK
2090.3	V	-54.5	-47.0	-7.5	PK

Mode 5: Receive by 802.11n(40MHz)(Chain 0+1+2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
133.2	H	-70.1	-36.0	-34.1	PK
144.0	V	-70.8	-36.0	-34.8	PK
191.9	H	-67.8	-36.0	-31.8	PK
232.3	V	-70.4	-36.0	-34.4	PK
1235.9	H	-53.5	-47.0	-6.5	PK
1363.4	V	-52.8	-47.0	-5.8	PK
1363.4	H	-53.5	-47.0	-6.5	PK
1493.1	V	-53.0	-47.0	-6.0	PK
Channel 62 (5310MHz)					
365.1	H	-70.0	-36.0	-34.0	PK
432.0	V	-71.1	-36.0	-35.1	PK
530.7	H	-68.7	-36.0	-32.7	PK
697.1	V	-66.6	-36.0	-30.6	PK
1374.0	H	-52.3	-47.0	-5.3	PK
1363.4	V	-53.6	-47.0	-6.6	PK
1797.0	H	-54.6	-47.0	-7.6	PK
1493.1	V	-53.4	-47.0	-6.4	PK
Channel 102 (5510MHz)					
128.8	H	-76.6	-36.0	-40.6	PK
171.9	V	-73.4	-36.0	-37.4	PK
225.7	H	-70.7	-36.0	-34.7	PK
250.0	V	-73.0	-36.0	-37.0	PK
1595.1	H	-53.2	-47.0	-6.2	PK
1497.3	V	-55.2	-47.0	-8.2	PK
1363.4	H	-55.3	-47.0	-8.3	PK
1197.7	V	-55.4	-47.0	-8.4	PK
Channel 134 (5670MHz)					

364.9	H	-70.6	-36.0	-34.6	PK
398.9	V	-67.0	-36.0	-31.0	PK
432.0	H	-69.8	-36.0	-33.8	PK
564.1	V	-65.7	-36.0	-29.7	PK
1790.6	H	-53.2	-47.0	-6.2	PK
1697.1	V	-56.1	-47.0	-9.1	PK
1165.8	H	-56.9	-47.0	-9.9	PK
1095.6	V	-53.6	-47.0	-6.6	PK

Test by dipole antenna 1#

Mode 4: Receive by 802.11n(20MHz)(Chain0+1+2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
373.4	H	-65.1	-36.0	-29.1	PK
373.4	V	-63.8	-36.0	-27.8	PK
399.6	H	-63.0	-36.0	-27.0	PK
399.6	V	-68.6	-36.0	-32.6	PK
1252.6	H	-54.9	-47.0	-7.9	PK
1499.4	V	-52.7	-47.0	-5.7	PK
1099.9	H	-55.3	-47.0	-8.3	PK
1287.9	V	-54.8	-47.0	-7.8	PK
Channel 64 (5320MHz)					
399.6	H	-62.4	-36.0	-26.4	PK
398.6	V	-66.5	-36.0	-30.5	PK
399.6	H	-62.5	-36.0	-26.5	PK
399.1	V	-68.4	-36.0	-32.4	PK
1193.9	H	-55.4	-47.0	-8.4	PK
1499.4	V	-53.1	-47.0	-6.1	PK
1094.0	H	-53.6	-47.0	-6.6	PK
1329.0	V	-53.6	-47.0	-6.6	PK
Channel 100 (5550MHz)					
432.1	H	-65.0	-36.0	-29.0	PK
398.1	V	-67.6	-36.0	-31.6	PK
399.6	H	-61.4	-36.0	-25.4	PK
399.6	V	-68.2	-36.0	-32.2	PK
1199.8	H	-54.7	-47.0	-7.7	PK
1376.0	V	-54.6	-47.0	-7.6	PK
1099.9	H	-54.6	-47.0	-7.6	PK
1246.8	V	-55.1	-47.0	-8.1	PK
Channel 140 (5700MHz)					
399.6	H	-62.4	-36.0	-26.4	PK
398.1	V	-65.9	-36.0	-29.9	PK
399.6	H	-62.0	-36.0	-26.0	PK
398.1	V	-67.2	-36.0	-31.2	PK

1099.9	H	-53.1	-47.0	-6.1	PK
1258.5	V	-54.5	-47.0	-7.5	PK
1029.4	H	-54.7	-47.0	-7.7	PK
1094.0	V	-54.1	-47.0	-7.1	PK

Mode 5: Receive by 802.11n(40MHz)(Chain 0+1+2)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
399.6	H	-62.2	-36.0	-26.2	PK
399.6	V	-64.9	-36.0	-28.9	PK
399.6	H	-62.0	-36.0	-26.0	PK
388.9	V	-66.8	-36.0	-30.8	PK
1235.9	H	-55.4	-47.0	-8.4	PK
1363.4	V	-53.1	-47.0	-6.1	PK
1363.4	H	-53.6	-47.0	-6.6	PK
1493.5	V	-53.6	-47.0	-6.6	PK
Channel 62 (5310MHz)					
399.6	H	-61.4	-36.0	-25.4	PK
399.6	V	-68.0	-36.0	-32.0	PK
399.6	H	-61.5	-36.0	-25.5	PK
399.6	V	-66.6	-36.0	-30.6	PK
1374.0	H	-54.9	-47.0	-7.9	PK
1363.4	V	-52.7	-47.0	-5.7	PK
1797.0	H	-55.3	-47.0	-8.3	PK
1493.1	V	-54.8	-47.0	-7.8	PK
Channel 102 (5510MHz)					
399.6	H	-62.2	-36.0	-26.2	PK
399.6	V	-67.4	-36.0	-31.4	PK
399.6	H	-61.6	-36.0	399.6	PK
398.1	V	-67.2	-36.0	398.1	PK
1595.1	H	-53.1	-47.0	-6.1	PK
1497.3	V	-54.5	-47.0	-7.5	PK
1363.4	H	-54.7	-47.0	-7.7	PK
1197.7	V	-54.1	-47.0	-7.1	PK
Channel 134 (5670MHz)					
399.6	H	-61.3	-36.0	-25.3	PK

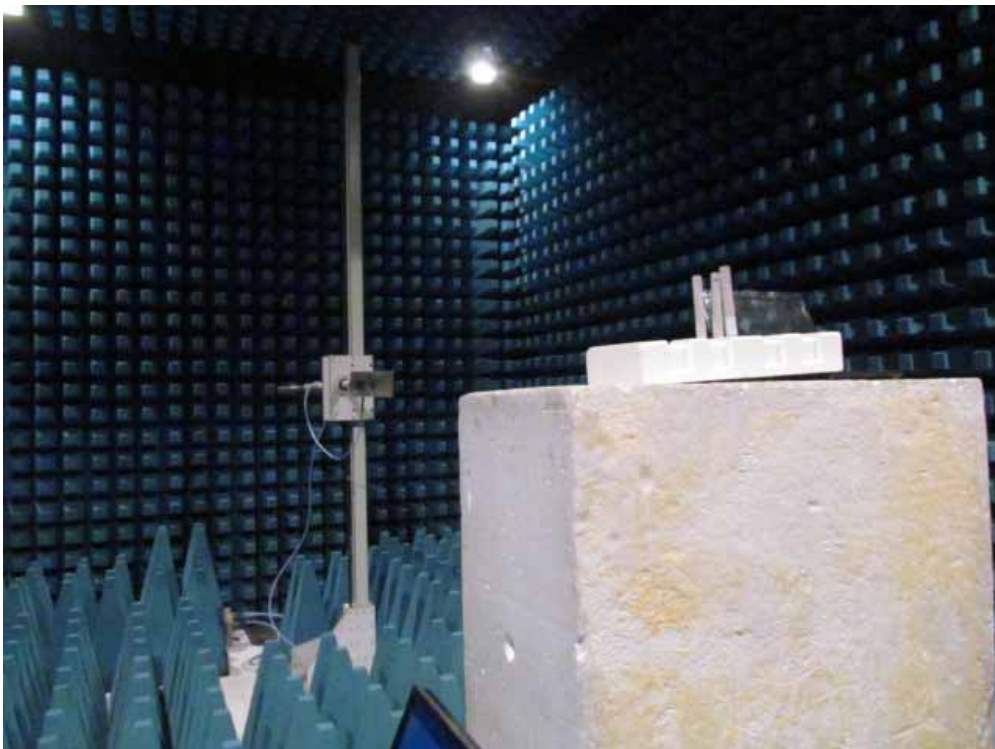
398.1	V	-67.4	-36.0	-31.4	PK
399.6	H	-62.1	-36.0	-26.1	PK
389.4	V	-66.8	-36.0	-30.8	PK
1790.6	H	-54.7	-47.0	-7.7	PK
1697.1	V	-54.6	-47.0	-7.6	PK
1165.8	H	-54.6	-47.0	-7.6	PK
1095.6	V	-55.1	-47.0	-8.1	PK

8.6. Test Photograph

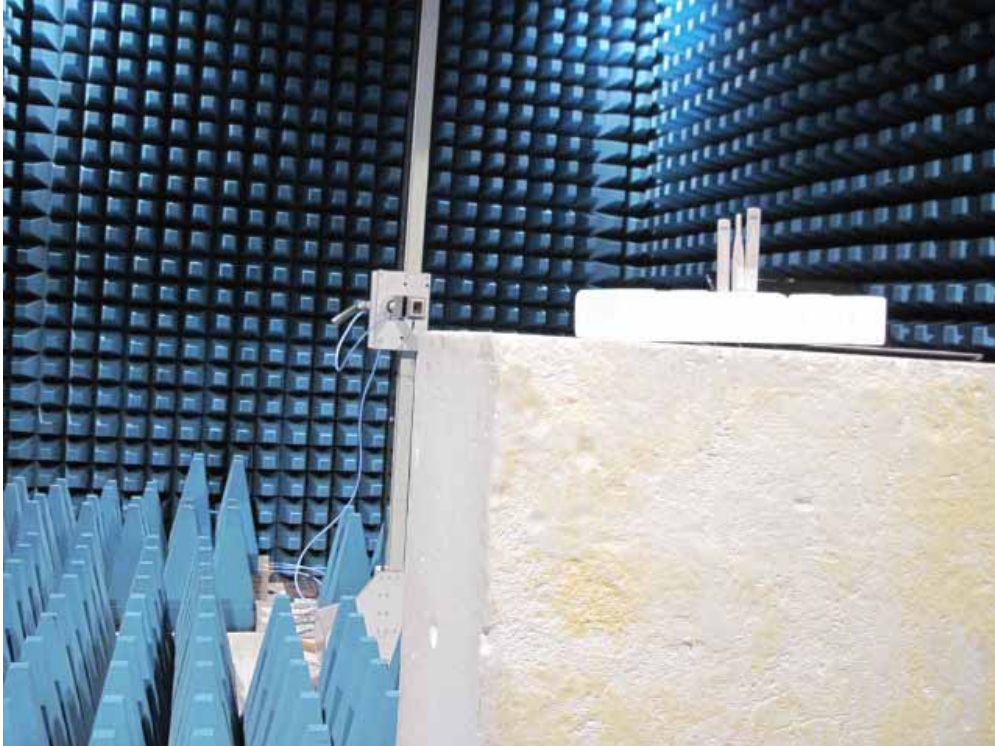
Description: Receive Spurious Emissions Test Setup for Below 1GHz



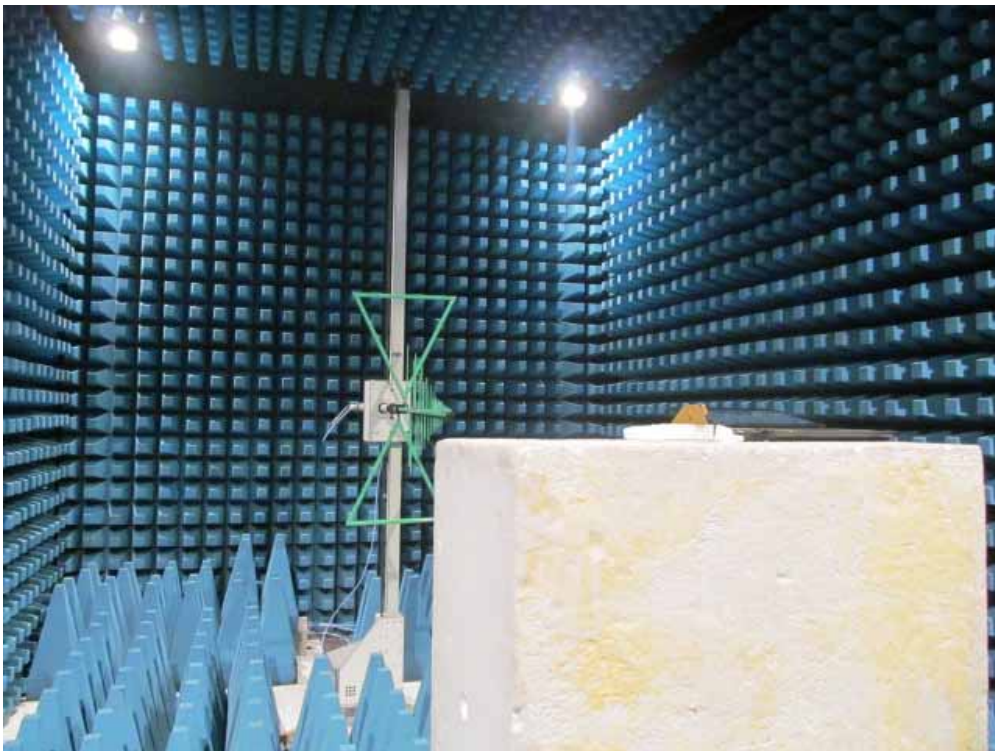
Description: Receive Spurious Emissions Test Setup for 1~18GHz



Description: Receive Spurious Emissions Test Setup for 18~26.5GHz



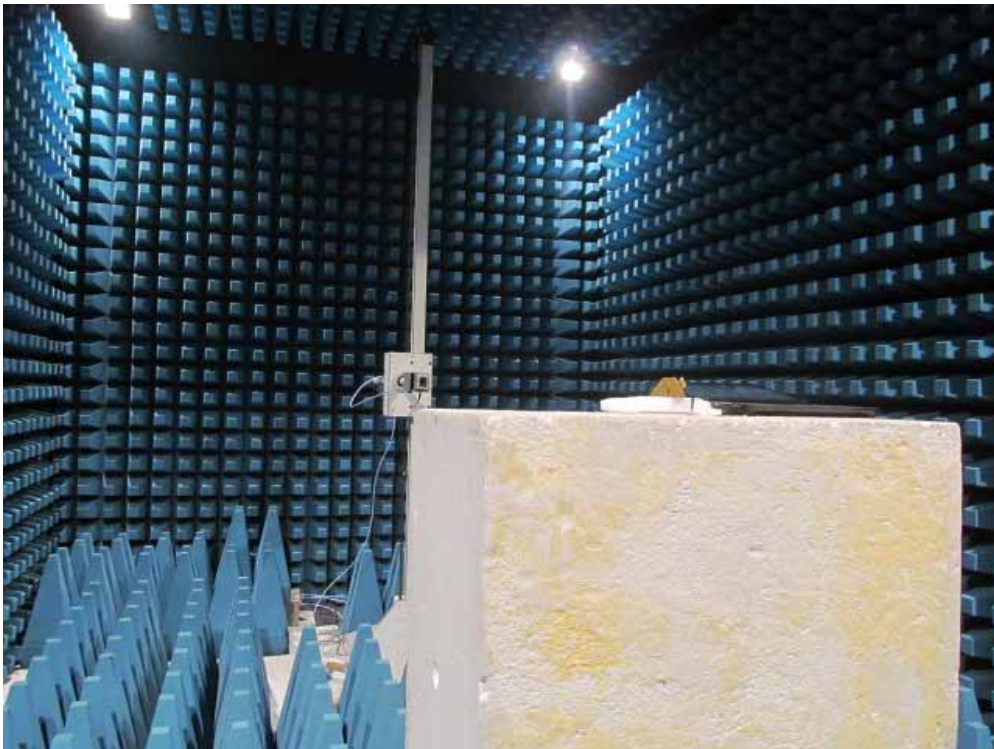
Description: Receive Spurious Emissions Test Setup for Below 1GHz



Description: Receive Spurious Emissions Test Setup for Above 1GHz



Description: Receive Spurious Emissions Test Setup for 18~26.5GHz



9. Adaptivity (Channel Access Mechanism)

9.1. Test Equipment

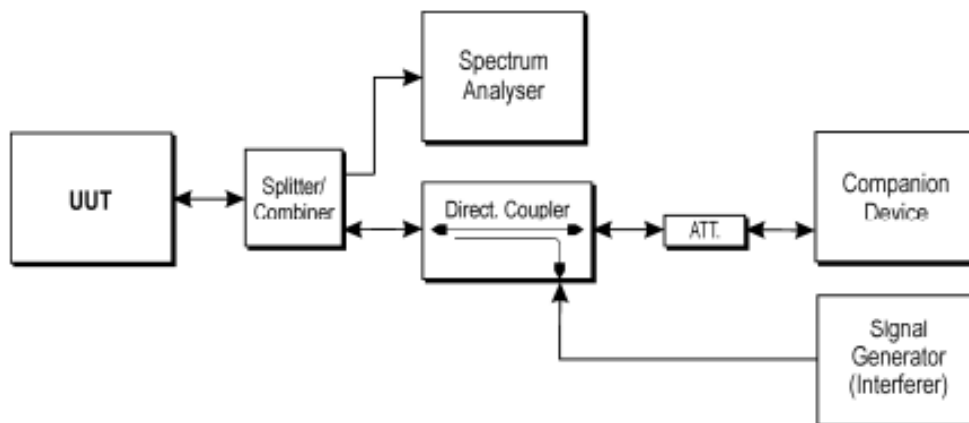
Adaptivity / TR-8

Instrument	Manufacturer	Type No.	Serial No	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2014.03.30
Vector Signal Generator	Agilent	E4438C	102168	2014.03.30
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2014.03.30
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2013.05.07

Instrument	Manufacturer	Type No.	Serial No
Splitter/Combiner (Qty: 2)	Mini-Circuits	ZAPD-50W 4.2-6.0 GHz	NN256400424
Splitter/Combiner (Qty: 2)	MCLI	PS3-7	4463/4464
ATT (Qty: 1)	Mini-Circuits	VAT-30+	30912
Laptop PC	Asus	N80V	8BN0AS226971468
RF Cable (Qty: 6)	Mini-Circuits	N/A	DFS-1~6

Software	Manufacturer	Function
DFS Tool	Agilent	DFS Test Software

9.2. Test Setup



9.3. Limit

Adaptivity Limit	
<input type="checkbox"/>	<p>Frame Based Equipment</p> <ul style="list-style-type: none"> ➤ Minimum Clear Channel Assessment (CCA) time = 20 us; ➤ CCA observation time used by the equipment declared by the manufacturer; ➤ COT = 1 ms to 10 ms; ➤ Idle Period = 5% of COT; ➤ Detection threshold level = $-73\text{dBm/MHz} + 23 - \text{Ph}$;
<input checked="" type="checkbox"/>	<p>LBT based Detect and Avoid (Load Based Equipment with spectrum sharing mechanism IEEE Std.):</p> <ul style="list-style-type: none"> ➤ LBT Based spectrum sharing mechanism may implement IEEE Std. 802.11-2007 clauses 9 and 17, in IEEE Std. 802.11n-2009 clauses 9, 11 and 20.
<input type="checkbox"/>	<p>LBT based Detect and Avoid (Load Based Equipment)</p> <ul style="list-style-type: none"> ➤ Minimum Clear Channel Assessment (CCA) time = 20 us; ➤ CCA observation time used by the equipment declared by the manufacturer; ➤ $\text{COT} \leq (13 / 32) * q \text{ ms}$; $q = [4\sim 32]$; 1.625ms~13ms; ➤ N = number of clear idle slots are randomly [1~q]. Every time an Extended CCA is required and the 'N' value stored in a counter. Extended CCA = N * CCA; ➤ Detection threshold level = $-73\text{dBm/MHz} + 23 - \text{Ph}$;
<input checked="" type="checkbox"/>	<p>Short Control Signalling Transmissions:</p> <ul style="list-style-type: none"> ➤ Short Control Signalling Transmissions shall have a maximum duty cycle of 5% within an observation period of 50ms.

9.4. Test Procedure

Refer to ETSI EN 301 893 V1.7.1 (2012-06) Clause 5.3.9.2

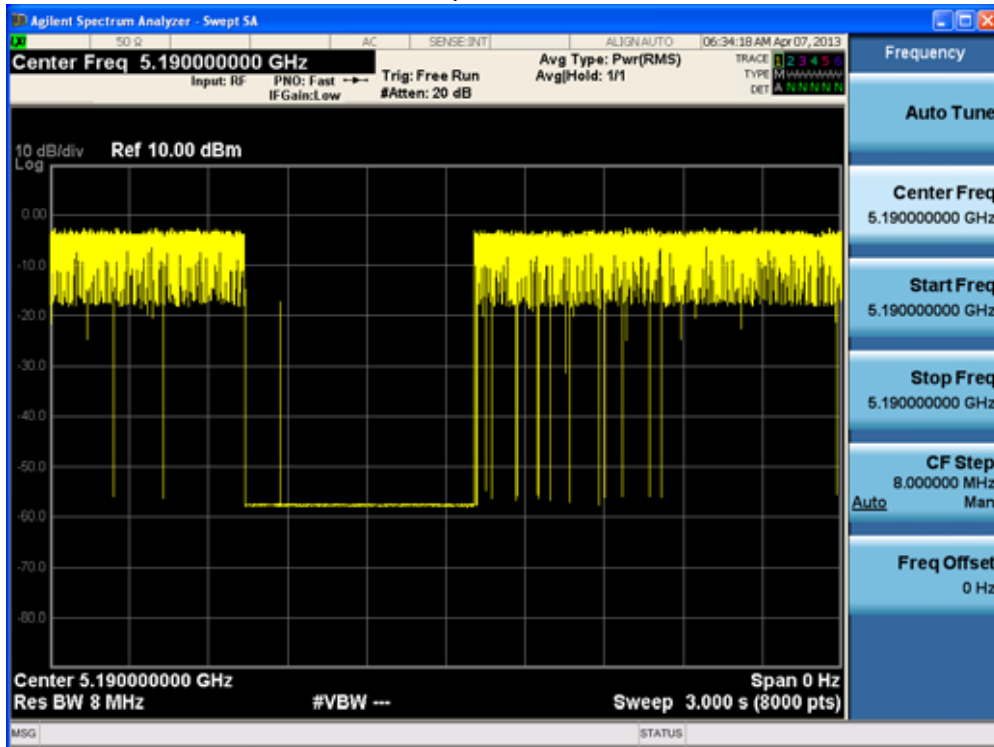
9.5. Test Result

Product	: WLE350NX
Test Item	: Adaptivity
Test Site	: TR-8
Test Mode	: Normal Operation

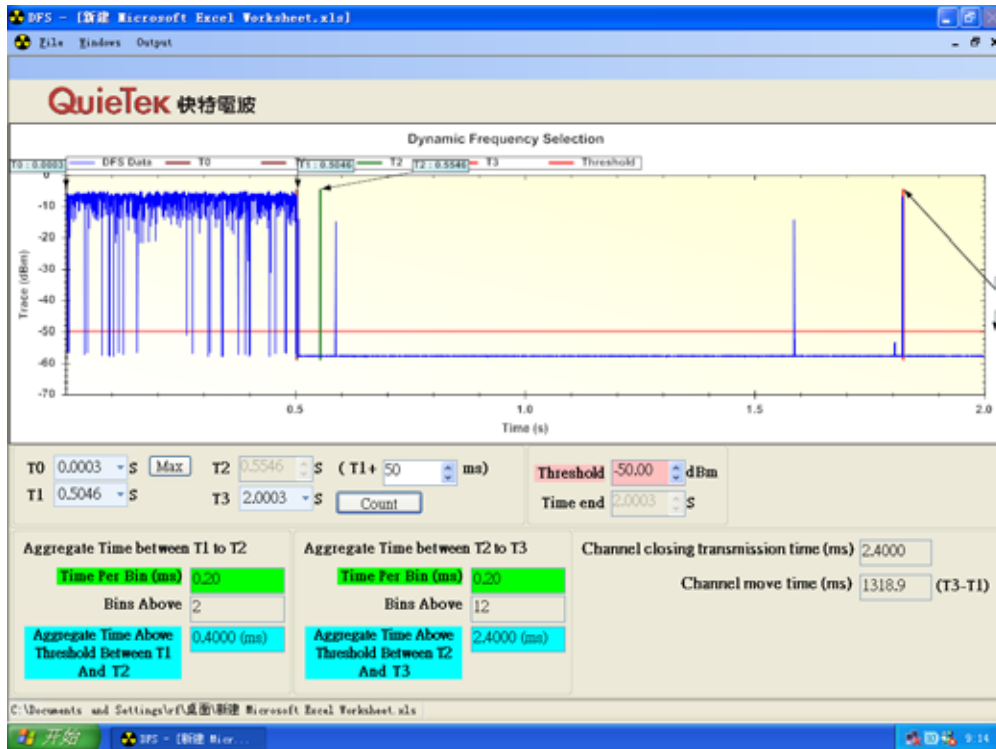
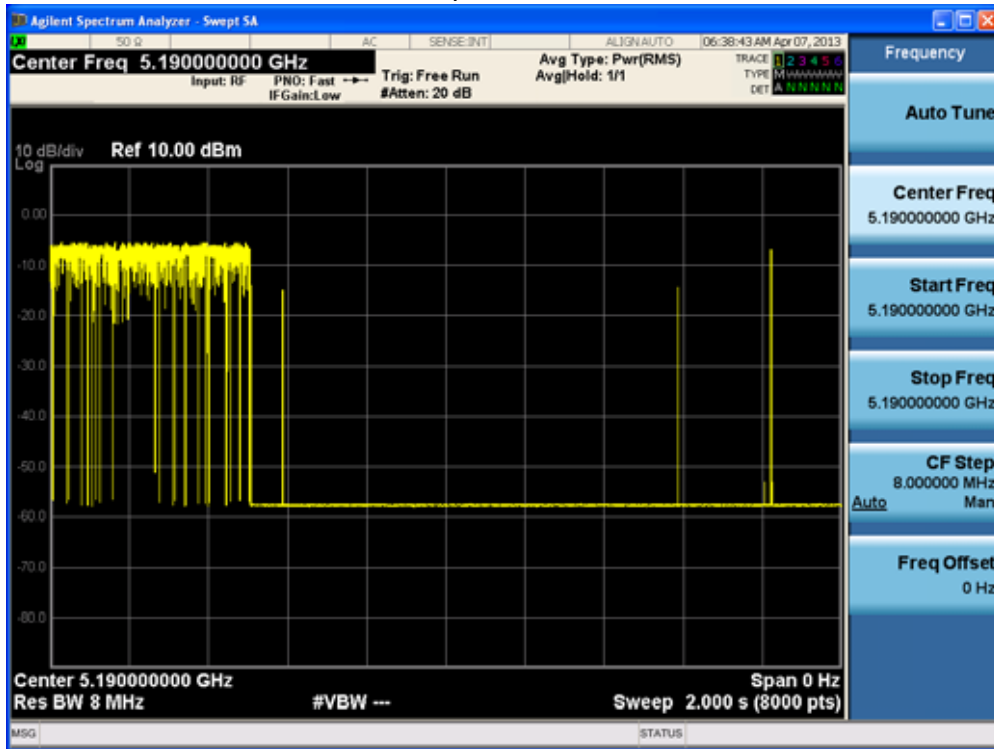
Adaptivity Result			
Detection Threshold Level (dBm)			-73
Modulation Mode	Frequency (MHz)	Adaptivity	Short Control Signalling Transmissions (ms)
802.11n40M	5190	PASS	0
802.11n40M	5510	PASS	0
Limit		PASS	2.5
Result		Complied	

Note1: Clear Channel Assessment Time have be declared by the supplier and complies with IEEE Std. 802.11-2007 and IEEE 802.11n-2009 specification.

Test result plot 1# Channel 38

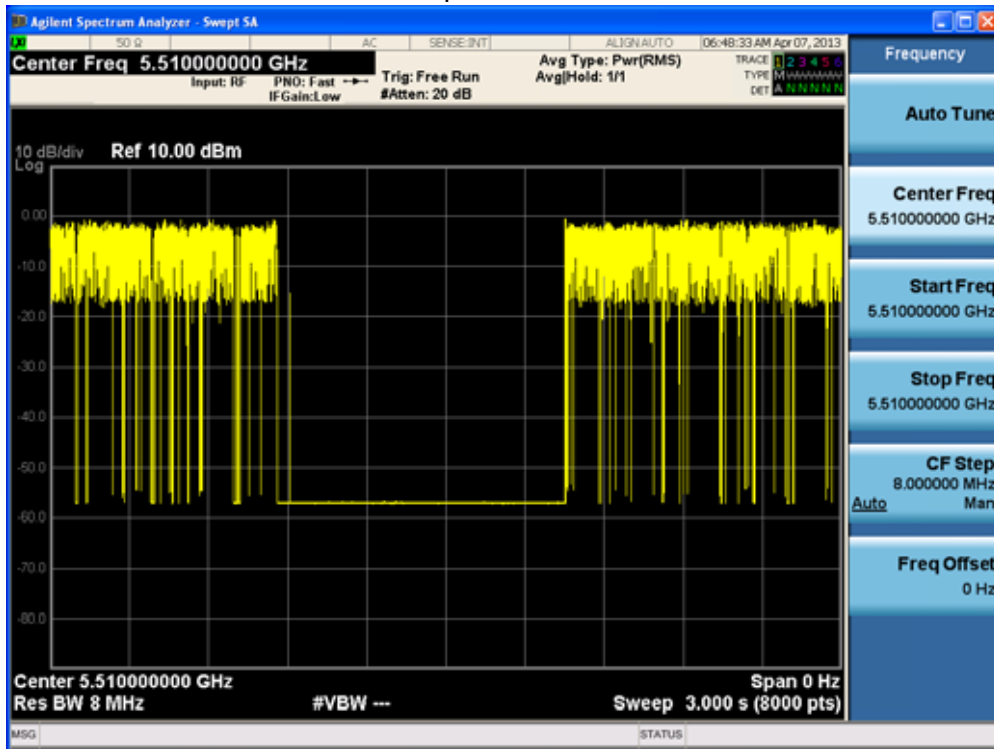


Test result plot 2# Channel 38

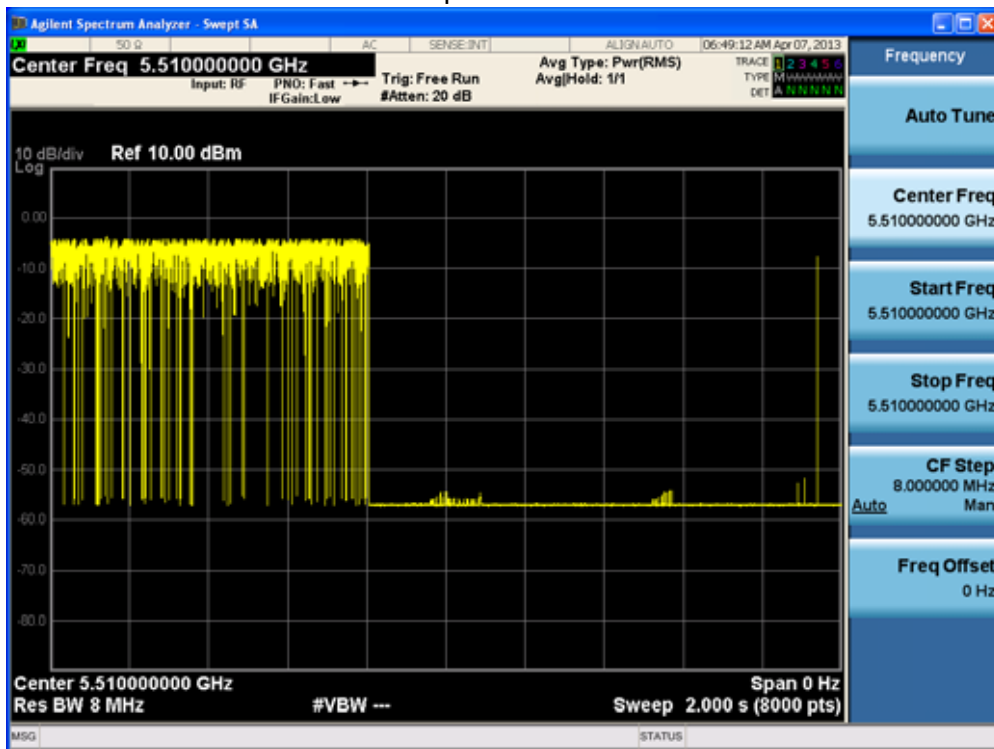


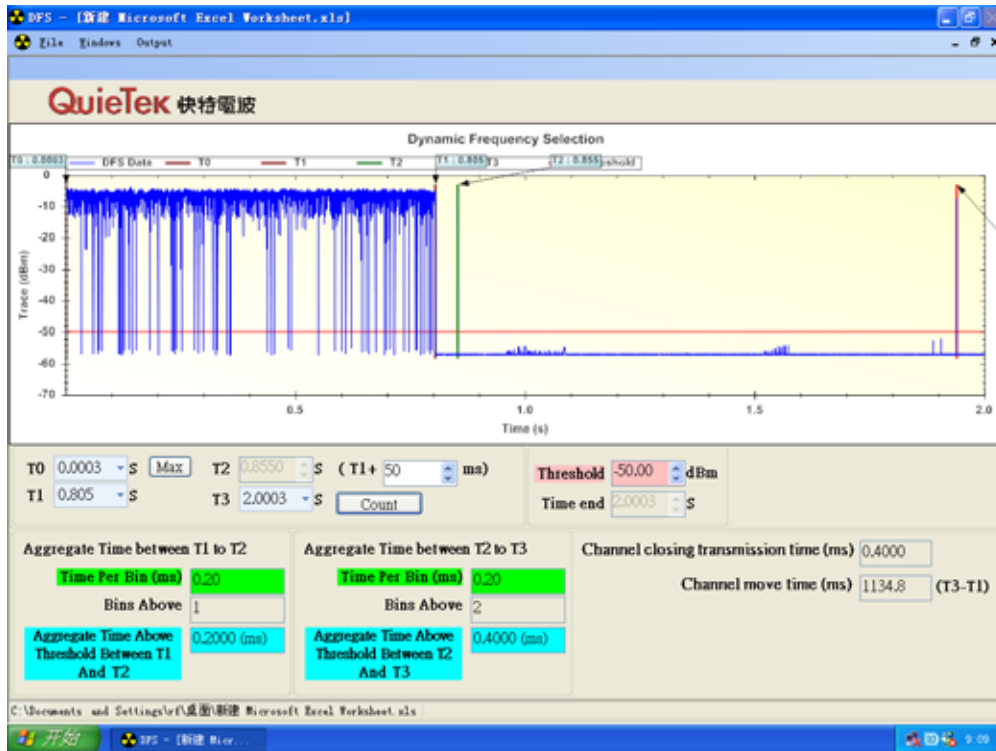
Test Result	Pass
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Test result plot 1# Channel 102



Test result plot 2# Channel 102





Test Result	Pass
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10. Dynamic Frequency Selection (DFS)

Please refer to report number [132S008R-RFCE-DFS](#).

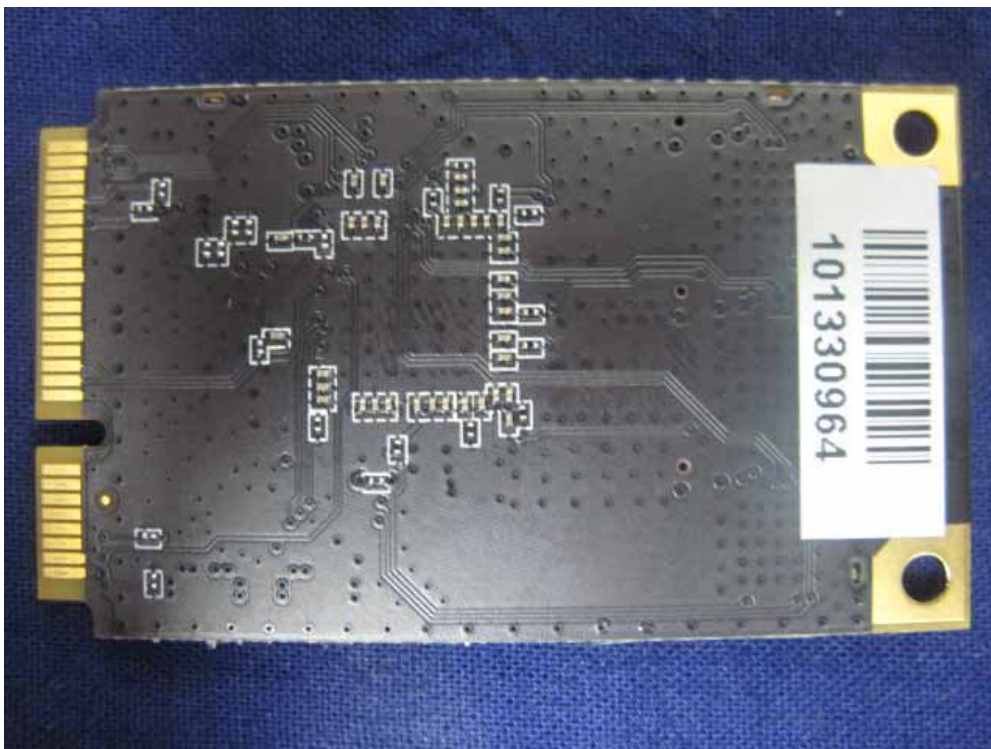
11. Attachment

➤ EUT Photograph

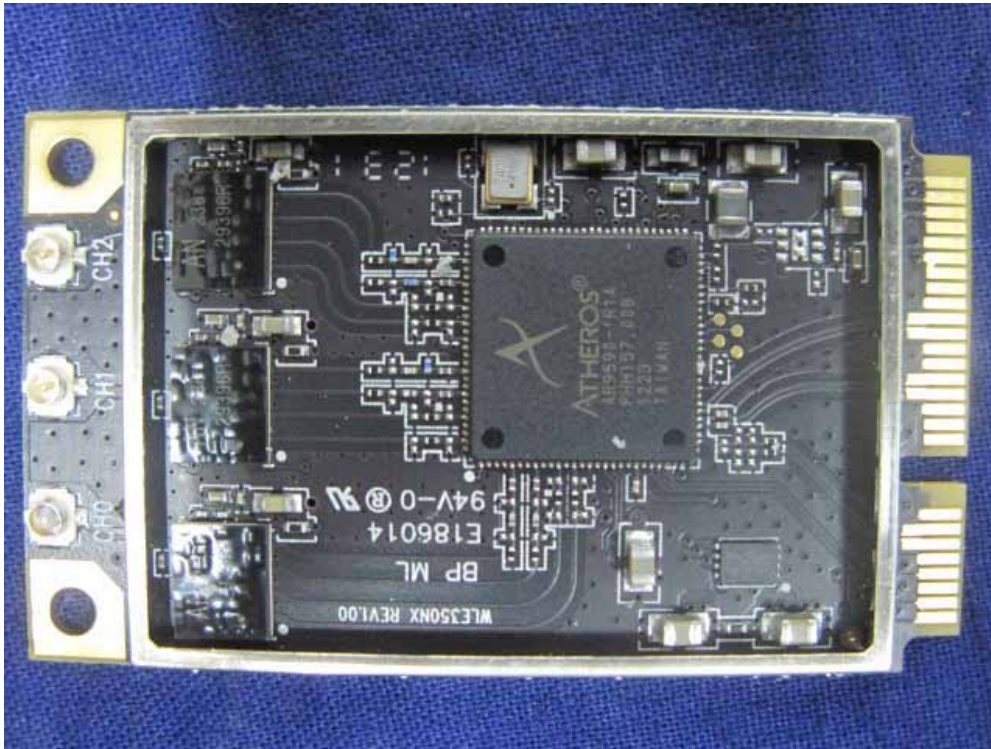
(1) EUT Photo



(2) EUT Photo



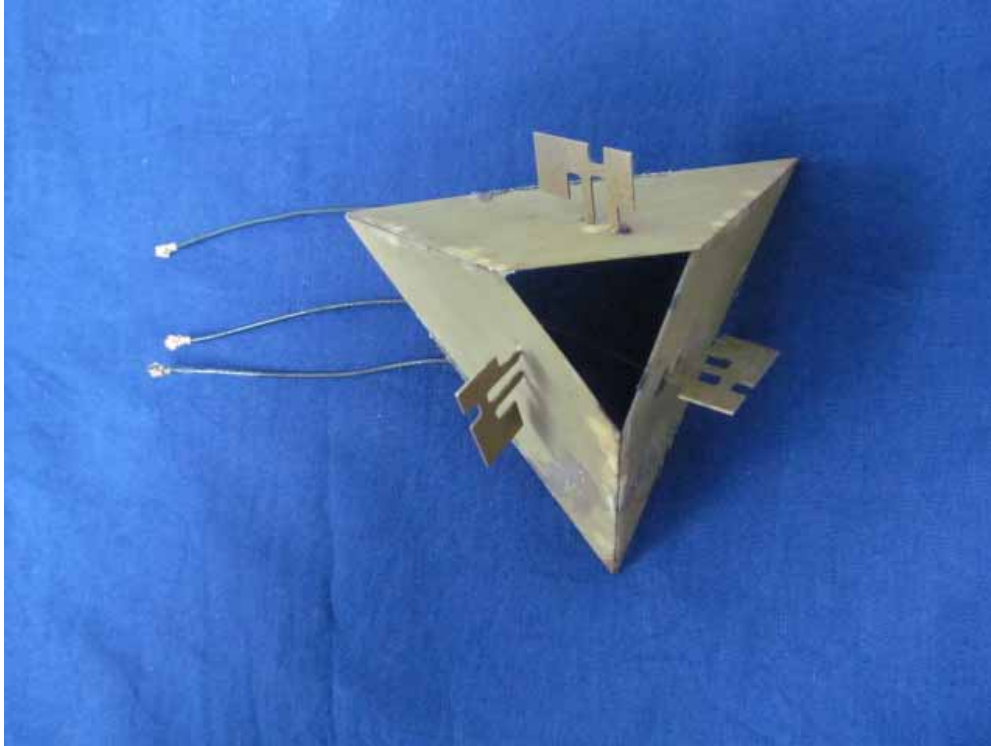
(3) EUT Photo



(4) EUT Photo (Dipole Antenna 1#)



(5) EUT Photo (Panel Antenna)



(6) EUT Photo (Dipole Antenna 2#)

