FCC Test Report
(Class II Permissive Change)

Product Name	Intel® Dual Band Wireless-AC 7265
Model No	7265NGW
FCC ID	MSQ7265NG

Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt	Apr. 07, 2016
Issued Date	May 12, 2016
Report No.	1640186R-RFUSP06V00
Report Version	V1.0

Testing Laboratory
3023

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.
This report must not be used to claim product endorsement by TAF or any agency of the government.
The test report shall not be reproduced without the written approval of QuieTek Corporation.

Test Report

Issued Date: May 12, 2016
Report No.: 1640186R-RFUSP06V00

Product Name	Intel® Dual Band Wireless-AC 7265
Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	Intel Mobile Communications
Model No.	7265NGW
FCC ID.	MSQ7265NG
EUT Rated Voltage	DC 3.3V (via Mini-PCI Express slot)
EUT Test Voltage	AC 120V/60Hz
Trade Name	Intel
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E: 2014 ANSI C63.4: 2014, ANSI C63.10: 2013 789033 D02 General UNII Test Procedures New Rules v01
Test Result	Complied

Documented By : Jinn Chen

(Senior Adm. Specialist / Jinn Chen)

Tested By : Bill Lin

(Engineer / Bill Lin)

Approved By :

(Director / Vincent Lin)

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Intel® Dual Band Wireless-AC 7265
Trade Name	Intel
Model No.	7265NGW
FCC ID.	MSQ7265NG
Frequency Range	802.11a/n-20MHz:5745-5825MHz 802.11n-40MHz:5755-5795MHz 802.11ac-80MHz: 5775MHz
Number of Channels	802.11a/n-20MHz: 5, n-40MHz: 2, ac-80MHz: 1
Data Rate	802.11a/g: 6-54Mbps, 802.11n: up to 300Mbps 802.11ac: up to 866.7Mbps
Channel Control	Auto
Type of Modulation	802.11a/n/ac:OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM
Antenna type	PIFA Antenna
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Antenna type	Peak Gain
1.	SkyCross	N/A(Main) N/A(Aux)	PIFA	3.64dBi For 5.15~5.25GHz 3.73dBi For 5.25~5.35GHz 4.77dBi For 5.47~5.725GHz 4.97dBi For 5725-5850GHz

Note: 1. The antenna of EUT is conform to FCC 15.203.

802.11a/n-20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 149:	5745 MHz	Channel 153:	5765 MHz	Channel 157:	5785 MHz	Channel 161:	5805 MHz
Channel 165:	5825 MHz						

802.11n-40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency
Channel 151:	5755 MHz	Channel 159:	5795 MHz

802.11ac-80MHz Center Working Frequency of Each Channel:

Channel	Frequency
Channel 155:	5775 MHz

Note:

1. This device is an Intel® Dual Band Wireless-AC 7265 with a built-in 802.11a/b/g/n/ac+ BT transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11a is 6Mbps、802.11n-20BW is 14.4Mbps、802.11n-40BW is 30Mbps and 802.11ac(80M-BW) is 65 Mbps)
4. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.
5. This is to request a Class II permissive change for FCC ID: MSQ7265NG (originally granted on 12/15/2015).

   The major change filed under this application is:

   Change #1: Original grant compliance are following old rule of UNII requirements, changed to meet the requirements of the new rules. All other hardware is identical with original granted.

Test Mode	Mode 1 SISO A: Transmit (802.11a-6Mbps)
	Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps)
	Mode 1 SISO A: Transmit (802.11n-40BW-15Mbps)
	Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps)
	Mode 2 SISO B: Transmit (802.11a-6Mbps)
	Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps)
	Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps)
	Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps)
	Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps)
	Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps)
	Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps)

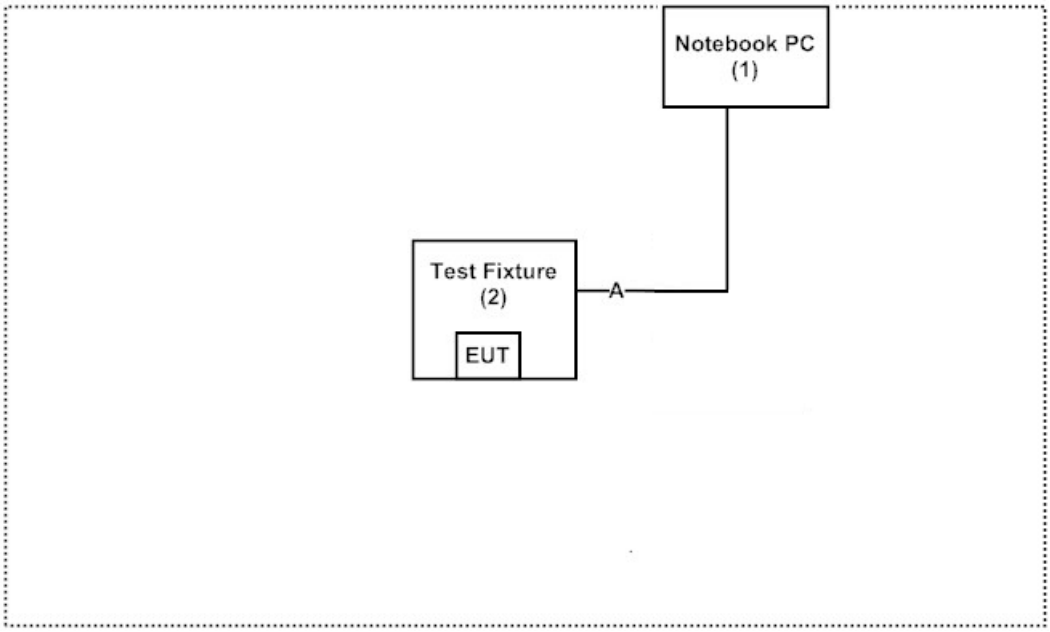
1.3. Tested System Datails

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

Product		Manufacturer	Model No.	Serial No.	Power Cord
(1)	Notebook PC	DELL	N/A	N/A	Non-Shielded, 1.8m
(2)	Test Fixture	Intel	N/A	N/A	N/A

Signal Cable Type		Signal cable Description
A	Test Fixture Cable	Non-Shielded, 1.0m

1.4. Configuration of tested System



1.5. EUT Exercise Software

(1) Setup the EUT and peripherals as shown in section 1.4.
(2) Execute “DRTU (Ver 1.7.4-1041)” program on the EUT.
(3) Configure the test mode, the test channel, and the data rate.
(4) Start the continuous transmission.
(5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

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/chinese/about/certificates.aspx?bval=5

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

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195

Site Name: Quietek Corporation
Site Address: No.5-22, Ruishukeng,
Linkou Dist. New Taipei City 24451,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Conducted Emission

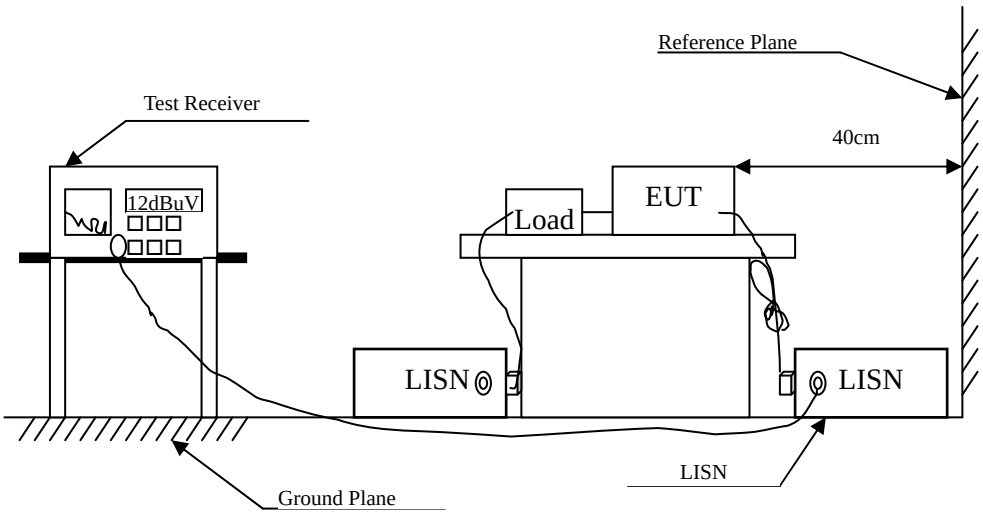
2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2015	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2016	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2016	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2016	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2016	
	No.1 Shielded Room				

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)
Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.
The EUT was setup to ANSI C63.4, 2014; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.150	9.671	37.200	46.871	-19.129	66.000
0.177	9.663	31.310	40.973	-24.256	65.229
0.209	9.661	29.790	39.451	-24.863	64.314
0.568	9.680	29.690	39.370	-16.630	56.000
2.345	9.783	20.130	29.913	-26.087	56.000
18.904	10.052	12.050	22.102	-37.898	60.000
Average					
0.150	9.671	30.480	40.151	-15.849	56.000
0.177	9.663	22.920	32.583	-22.646	55.229
0.209	9.661	22.410	32.071	-22.243	54.314
0.568	9.680	20.990	30.670	-15.330	46.000
2.345	9.783	10.320	20.103	-25.897	46.000
18.904	10.052	5.580	15.632	-34.368	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 2					
Quasi-Peak					
0.150	9.671	36.650	46.321	-19.679	66.000
0.181	9.662	32.960	42.622	-22.492	65.114
0.541	9.679	28.470	38.149	-17.851	56.000
0.568	9.680	28.610	38.290	-17.710	56.000
2.361	9.783	21.160	30.943	-25.057	56.000
19.377	10.186	11.950	22.136	-37.864	60.000
Average					
0.150	9.671	28.540	38.211	-17.789	56.000
0.181	9.662	16.730	26.392	-28.722	55.114
0.541	9.679	24.960	34.639	-11.361	46.000
0.568	9.680	23.240	32.920	-13.080	46.000
2.361	9.783	11.660	21.443	-24.557	46.000
19.377	10.186	2.690	12.876	-37.124	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product	:	Intel® Dual Band Wireless-AC 7265
Test Item	:	Conducted Emission Test
Power Line	:	Line 1
Test Mode	:	Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.181	9.662	33.990	43.652	-21.462	65.114
0.212	9.661	31.230	40.891	-23.338	64.229
0.240	9.663	25.890	35.553	-27.876	63.429
0.556	9.680	27.050	36.730	-19.270	56.000
2.337	9.783	20.830	30.613	-25.387	56.000
19.638	10.058	10.950	21.008	-38.992	60.000
Average					
0.181	9.662	27.390	37.052	-18.062	55.114
0.212	9.661	21.190	30.851	-23.378	54.229
0.240	9.663	15.470	25.133	-28.296	53.429
0.556	9.680	14.240	23.920	-22.080	46.000
2.337	9.783	17.520	27.303	-18.697	46.000
19.638	10.058	2.410	12.468	-37.532	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product	:	Intel® Dual Band Wireless-AC 7265
Test Item	:	Conducted Emission Test
Power Line	:	Line 2
Test Mode	:	Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 2					
Quasi-Peak					
0.181	9.662	32.640	42.302	-22.812	65.114
0.212	9.661	28.890	38.551	-25.678	64.229
0.244	9.663	25.180	34.843	-28.471	63.314
0.545	9.679	28.910	38.589	-17.411	56.000
2.365	9.784	20.810	30.594	-25.406	56.000
19.240	10.185	11.360	21.545	-38.455	60.000
Average					
0.181	9.662	24.960	34.622	-20.492	55.114
0.212	9.661	20.580	30.241	-23.988	54.229
0.244	9.663	17.960	27.623	-25.691	53.314
0.545	9.679	27.290	36.969	-9.031	46.000
2.365	9.784	15.040	24.824	-21.176	46.000
19.240	10.185	5.340	15.525	-34.475	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product	:	Intel® Dual Band Wireless-AC 7265
Test Item	:	Conducted Emission Test
Power Line	:	Line 1
Test Mode	:	Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.150	9.671	37.200	46.871	-19.129	66.000
0.177	9.663	31.310	40.973	-24.256	65.229
0.209	9.661	29.790	39.451	-24.863	64.314
0.568	9.680	29.690	39.370	-16.630	56.000
2.345	9.783	20.130	29.913	-26.087	56.000
18.904	10.052	12.050	22.102	-37.898	60.000
Average					
0.150	9.671	30.480	40.151	-15.849	56.000
0.177	9.663	22.920	32.583	-22.646	55.229
0.209	9.661	22.410	32.071	-22.243	54.314
0.568	9.680	20.990	30.670	-15.330	46.000
2.345	9.783	10.320	20.103	-25.897	46.000
18.904	10.052	5.580	15.632	-34.368	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 2					
Quasi-Peak					
0.150	9.671	36.650	46.321	-19.679	66.000
0.181	9.662	32.960	42.622	-22.492	65.114
0.541	9.679	28.470	38.149	-17.851	56.000
0.568	9.680	28.610	38.290	-17.710	56.000
2.361	9.783	21.160	30.943	-25.057	56.000
19.377	10.186	11.950	22.136	-37.864	60.000
Average					
0.150	9.671	28.540	38.211	-17.789	56.000
0.181	9.662	16.730	26.392	-28.722	55.114
0.541	9.679	24.960	34.639	-11.361	46.000
0.568	9.680	23.240	32.920	-13.080	46.000
2.361	9.783	11.660	21.443	-24.557	46.000
19.377	10.186	2.690	12.876	-37.124	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ “ means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Maximun conducted output power

3.1. Test Equipment

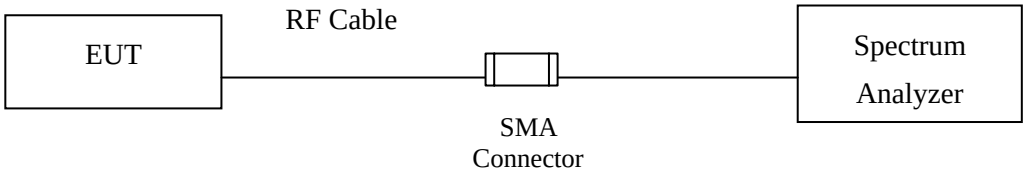
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2015
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2016

Note:

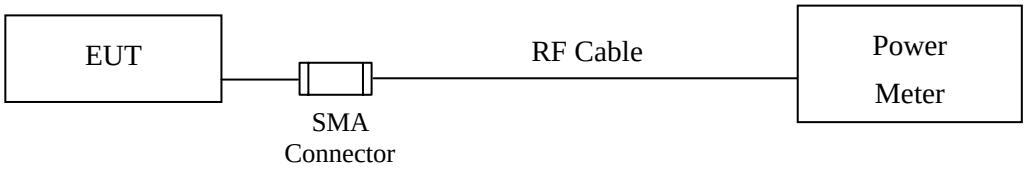
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

3.2. Test Setup

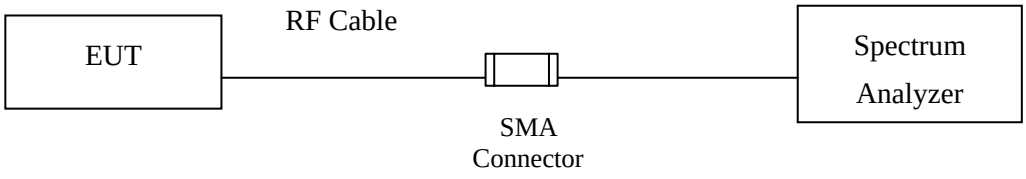
99% Occupied Bandwidth



Conduction Power Measurement (for 802.11an)



Conduction Power Measurement (for 802.11ac)



3.3. Limits

(1) For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-topoint U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point UNII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any

corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.4. Test Procedure

As an alternative to FCC KDB-789033, the EUT maximum conducted output power was measured with an average power meter employing a video bandwidth greater the 6dB BW of the emission under test. Maximum conducted output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

802.11an (BW≦40MHz) Maximum conducted output power using KDB 789033 section E)3)a) Method PM (Measurement using an RF average power meter)

Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth, (Anritsu/ MA2411B video bandwidth: 65MHz)

802.11ac (BW=80MHz) Maximum conducted output power using KDB 789033 section E)2)b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep).

When transmitted signals consist of two or more non-contiguous spectrum segments (e.g., 80+80 MHz mode) or when a single spectrum segment of a transmission crosses the boundary between two adjacent U-NII bands, KDB 644545 D01 section F) procedure is used for measurements.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Maximum conducted output power

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps)

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
149	5745	13.29	--	--	--	--	--	--	--	<30dBm
157	5785	13.14	13.08	12.96	12.84	12.76	12.62	12.55	12.48	<30dBm
165	5825	13.16	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	Output Power (dBm)	Output Power Limit (dBm)
149	5745	13.29	30
157	5785	13.14	30
165	5825	13.16	30

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps)

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	
		Measurement Level (dBm)								
149	5745	13.18	--	--	--	--	--	--	--	<30dBm
157	5785	13.12	13.06	12.98	12.89	12.72	12.64	12.53	12.44	<30dBm
165	5825	13.03	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	Output Power (dBm)	Output Power Limit (dBm)
149	5745	13.18	30
157	5785	13.12	30
165	5825	13.03	30

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW-15Mbps)

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	
		Measurement Level (dBm)								
151	5755	13.5	13.44	13.32	13.26	13.15	13.02	12.94	12.86	<30dBm
159	5795	13.5	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	Output Power (dBm)	Output Power Limit (dBm)
151	5755	13.5	30
159	5795	13.5	30

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps)

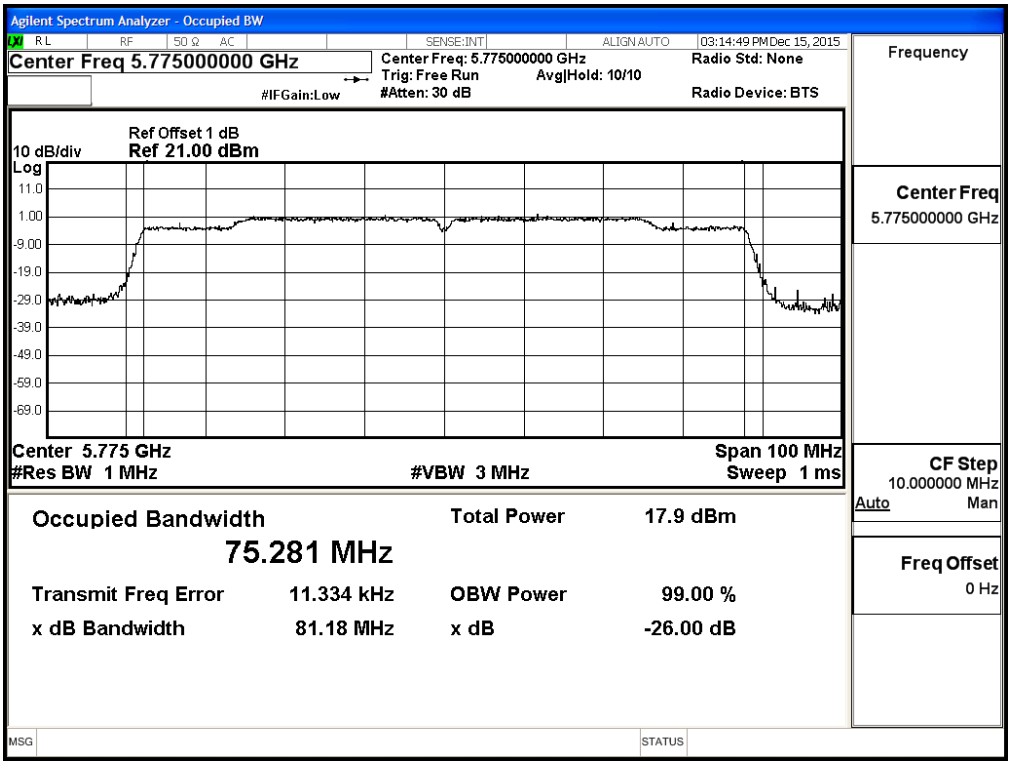
Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
		Measurement Level (dBm)										
155	5775	13.16	13.02	12.93	12.84	12.76	12.61	12.53	12.46	12.35	12.26	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

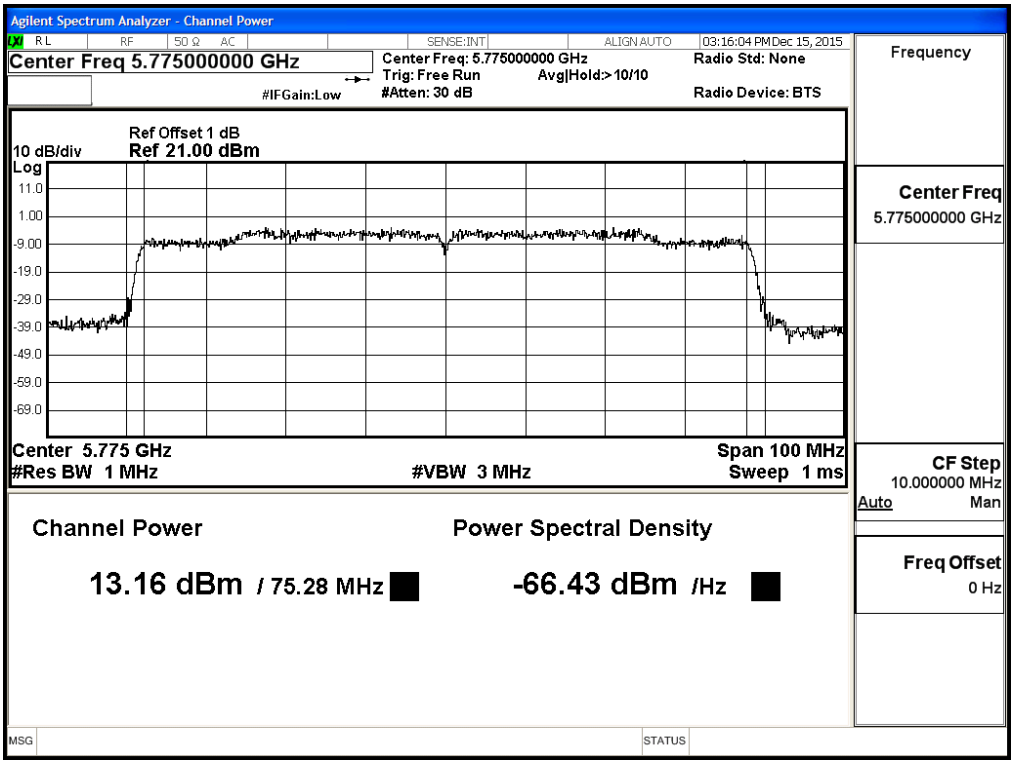
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	Output Power (dBm)	Output Power Limit (dBm)
155	5775	13.16	30

99% Occupied Bandwidth:
Channel 155



Maximum conducted output power:
Channel 155



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps)

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
149	5745	13.44	--	--	--	--	--	--	--	<30dBm
157	5785	13.38	13.24	13.16	13.05	12.97	12.86	12.77	12.62	<30dBm
165	5825	13.5	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	Output Power (dBm)	Output Power Limit (dBm)
149	5745	13.44	30
157	5785	13.38	30
165	5825	13.5	30

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps)

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	
		Measurement Level (dBm)								
149	5745	13.31	--	--	--	--	--	--	--	<30dBm
157	5785	13.25	13.16	13.02	12.97	12.88	12.74	12.65	12.53	<30dBm
165	5825	13.5	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	Output Power (dBm)	Output Power Limit (dBm)
149	5745	13.31	30
157	5785	13.25	30
165	5825	13.5	30

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps)

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	
		Measurement Level (dBm)								
151	5755	13.5	13.44	13.37	13.29	13.12	13.05	12.94	12.86	<30dBm
159	5795	13.5	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	Output Power (dBm)	Output Power Limit (dBm)
151	5755	13.5	30
159	5795	13.5	30

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps)

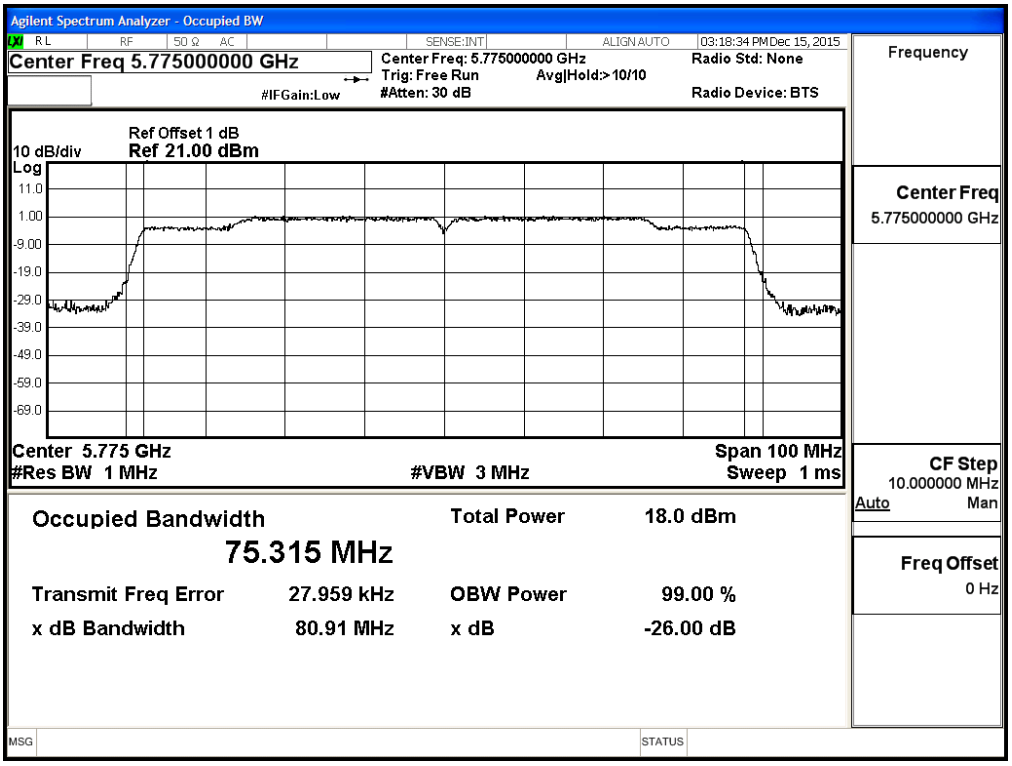
Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
		Measurement Level (dBm)										
155	5775	13.5	13.48	13.33	13.24	13.16	13.02	12.94	12.84	12.75	12.64	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

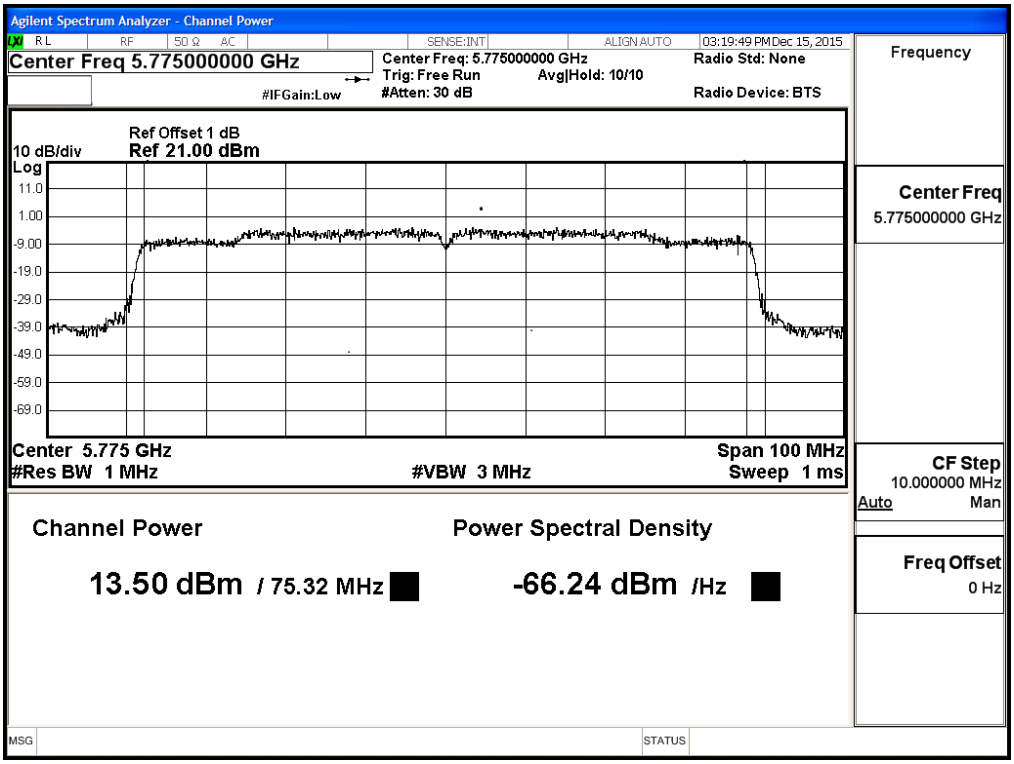
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	Output Power (dBm)	Output Power Limit (dBm)
155	5775	13.5	30

99% Occupied Bandwidth:
Channel 155



Maximum conducted output power:
Channel 155



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	
		Measurement Level (dBm)								
149	5745	12.83	--	--	--	--	--	--	--	<30dBm
157	5785	13.27	13.16	13.09	12.94	12.86	12.74	12.55	12.43	<30dBm
165	5825	12.84	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	
		Measurement Level (dBm)								
149	5745	13.13	--	--	--	--	--	--	--	<30dBm
157	5785	13.83	13.78	13.69	13.62	13.54	13.42	13.35	13.24	<30dBm
165	5825	13.50	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

(CHAIN A+ B)

Channel Number	Frequency (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit (dBm)
149	5745	12.83	13.13	15.99	30
157	5785	13.27	13.83	16.57	30
165	5825	12.84	13.50	16.19	30

Note:
1. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps)

CHAIN A

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	
		Measurement Level (dBm)								
151	5755	12.45	12.37	12.26	12.14	12.05	11.98	11.86	11.74	<30dBm
159	5795	12.39	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

CHAIN B

Cable loss=1dB		Maximum conducted output power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		HT8	HT9	HT10	HT11	HT12	HT13	HT14	HT15	
		Measurement Level (dBm)								
151	5755	13.08	12.95	12.86	12.76	12.61	12.55	12.49	12.33	<30dBm
159	5795	13.29	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

(CHAIN A+ B)

Channel Number	Frequency (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit (dBm)
151	5755	12.45	13.08	15.79	30
159	5795	12.39	13.29	15.87	30

Note:
1. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps)

CHAIN A

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
		Measurement Level (dBm)										
155	5775	13.5	13.44	13.38	13.29	13.11	13.02	12.94	12.84	12.76	12.65	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

CHAIN B

Cable loss=1dB		Maximum conducted output power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
		Measurement Level (dBm)										
155	5775	13.48	13.35	13.22	13.13	13.05	12.94	12.86	12.78	12.64	12.52	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

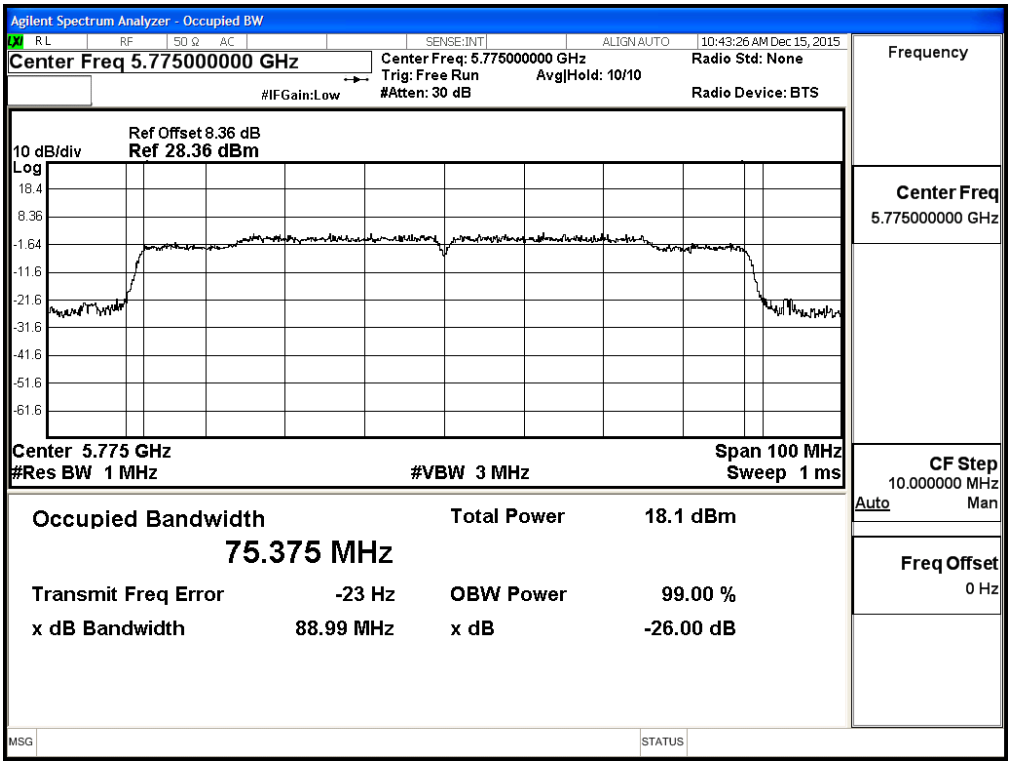
Maximum conducted output power Measurement:

(CHAIN A+ B)

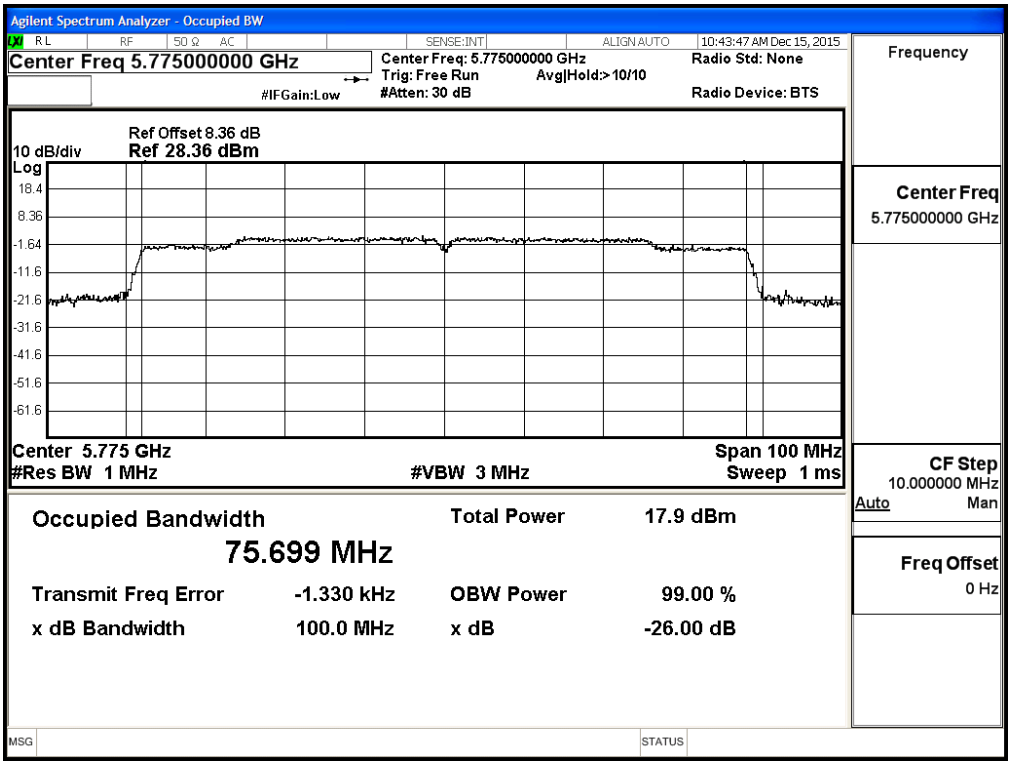
Channel Number	Frequency (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit (dBm)
155	5775	13.500	13.480	16.5	30

Note:
1. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))

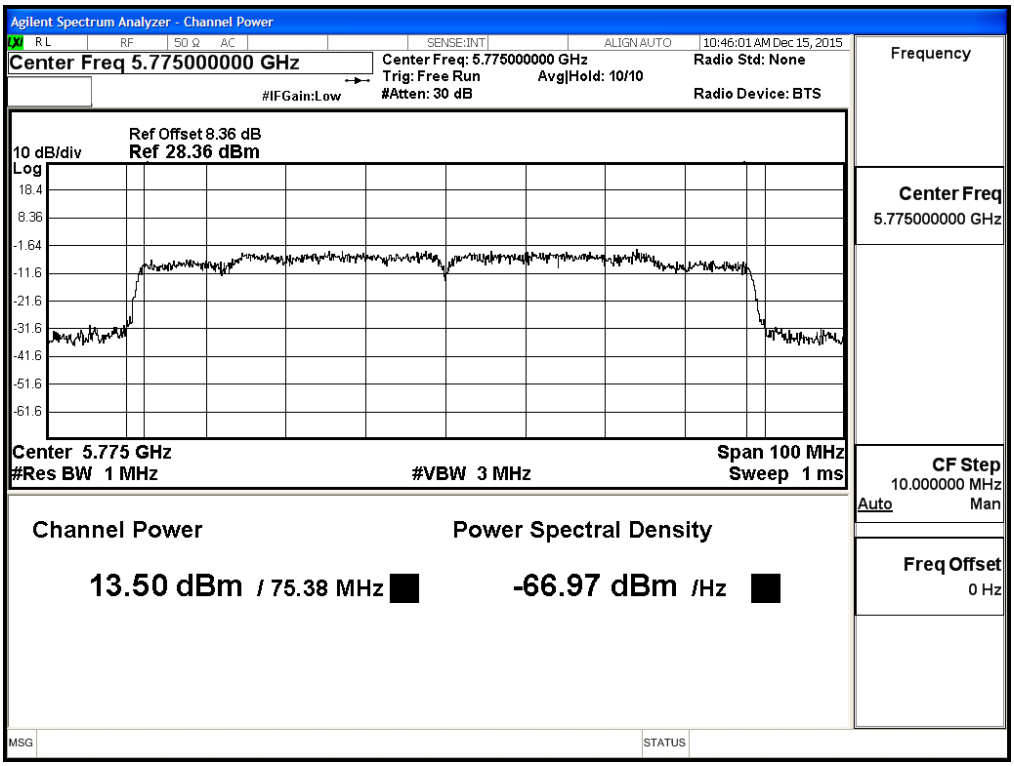
99% Occupied Bandwidth:
Channel 155– Chain A



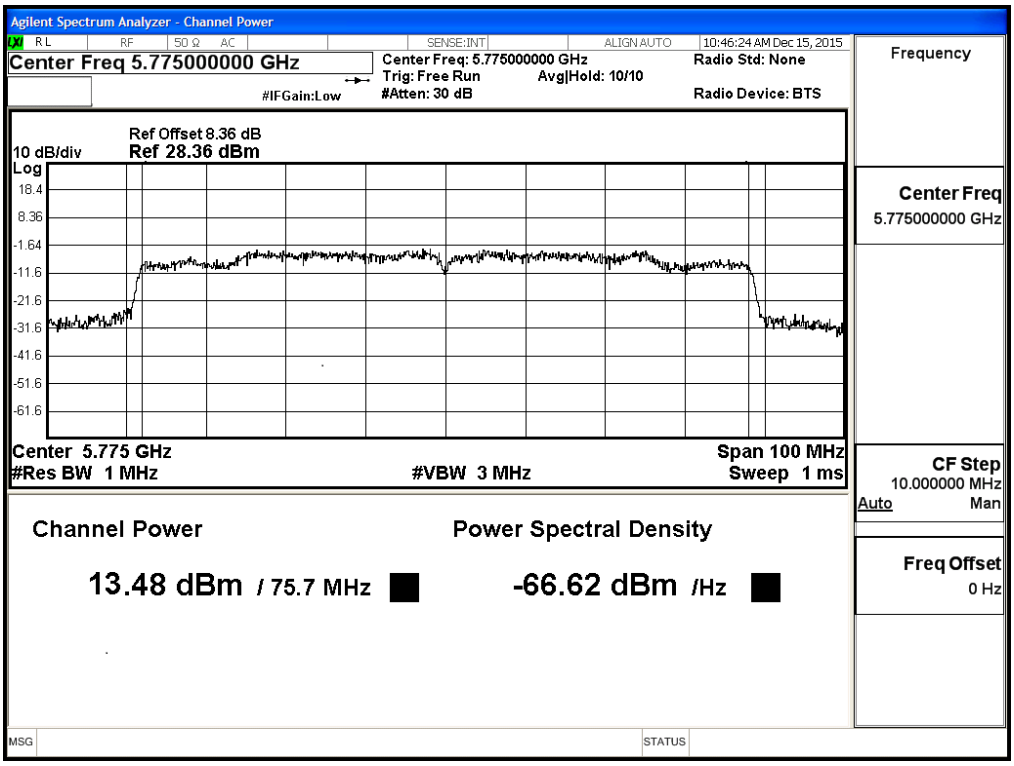
Channel 155– Chain B



Maximum conducted output power:
Channel 155– Chain A



Channel 155– Chain B



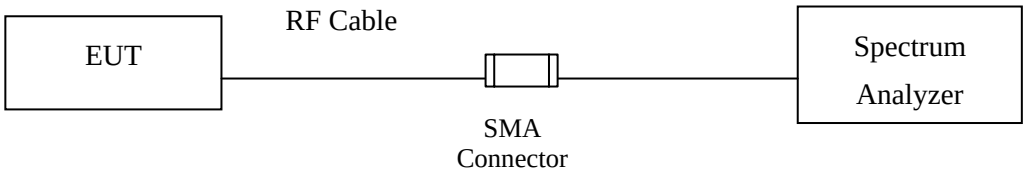
4. Peak Power Spectral Density

4.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr, 2016

Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup



4.3. Limits

(1) For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-topoint U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated

transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.+

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point UNII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

4.4. Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.
The Peak Power Spectral Density using KDB 789033 section F) procedure, Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer.
SA-1 method is selected to run the test.
Scale the observed power level to an equivalent value in 500 kHz by adjusting (increase) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log (500 kHz/100 kHz) = 6.98 dB.

4.5. Uncertainty

± 1.27 dB

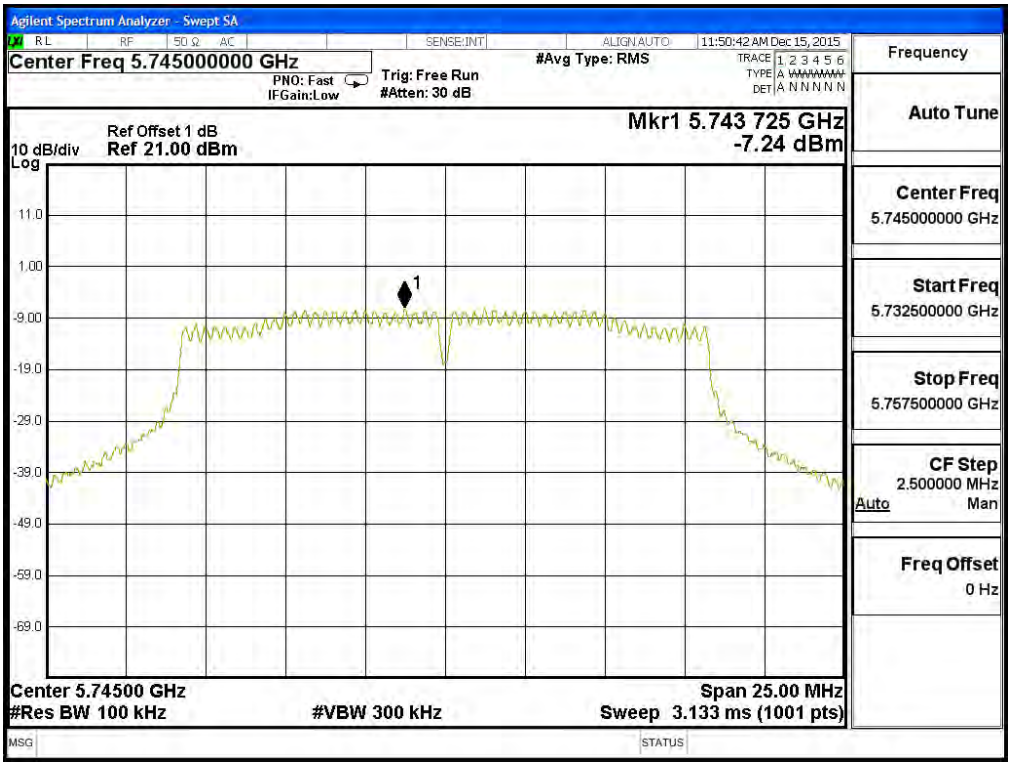
4.6. Test Result of Peak Power Spectral Density

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps)

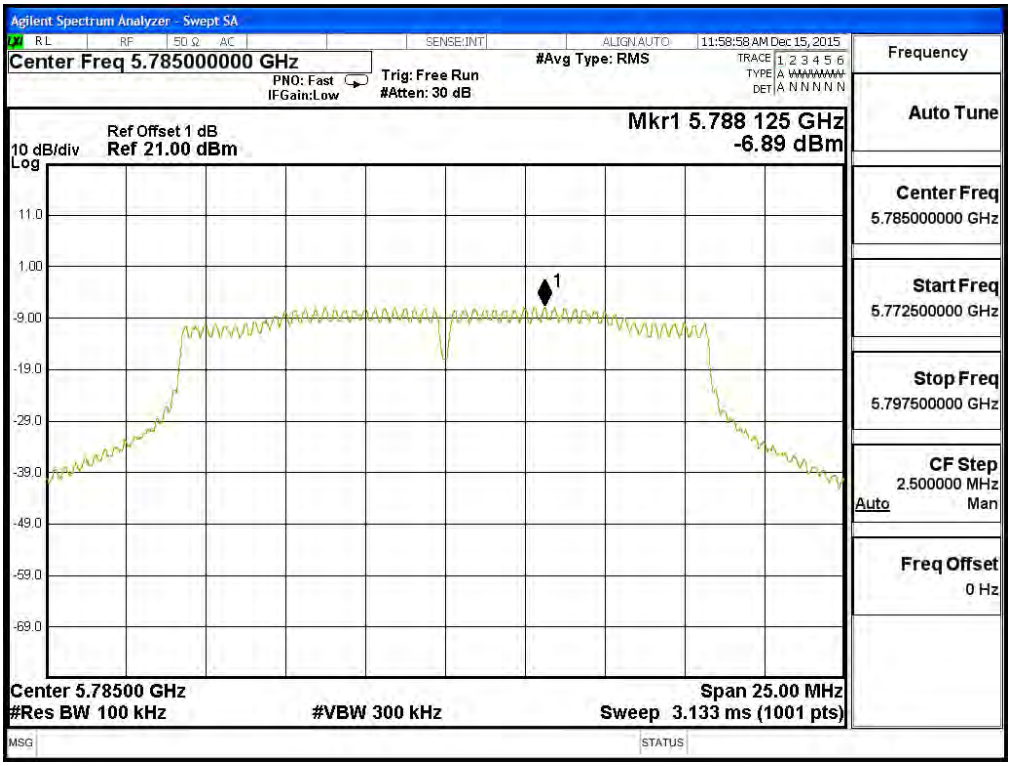
Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
149	5745	-7.24	6.98	-0.26	<30	Pass
157	5785	-6.89	6.98	0.09	<30	Pass
165	5825	-6.22	6.98	0.76	<30	Pass

Note: Total PPSD = PPSD value + BWCF

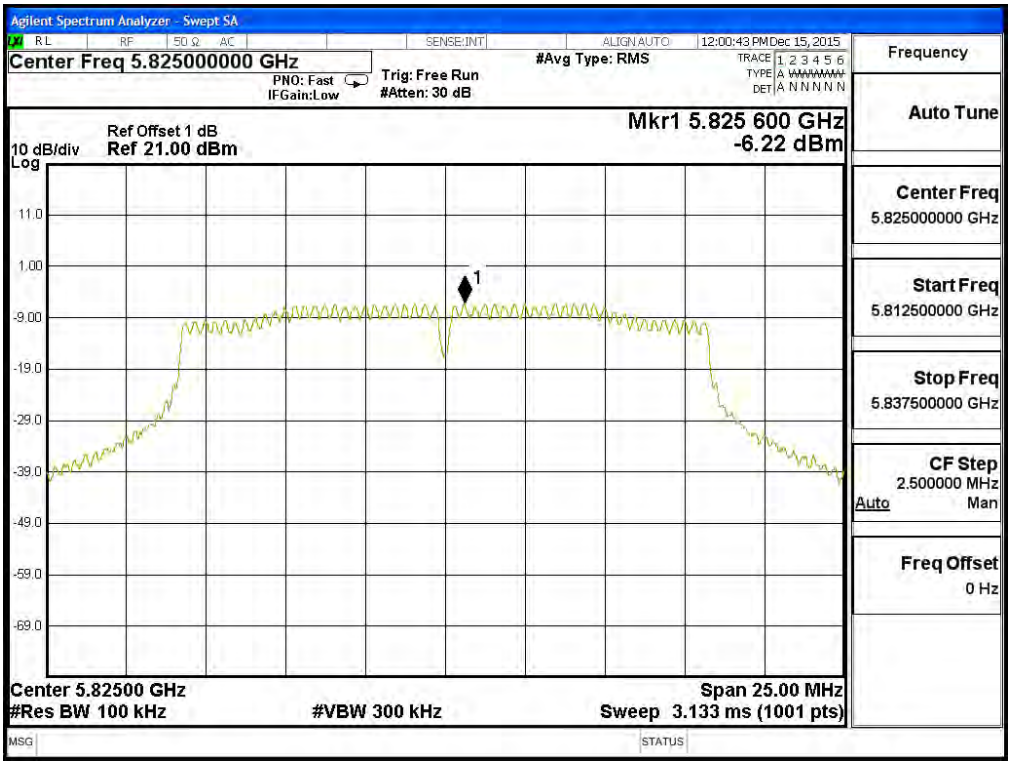
Channel 149:



Channel 157:



Channel 165:



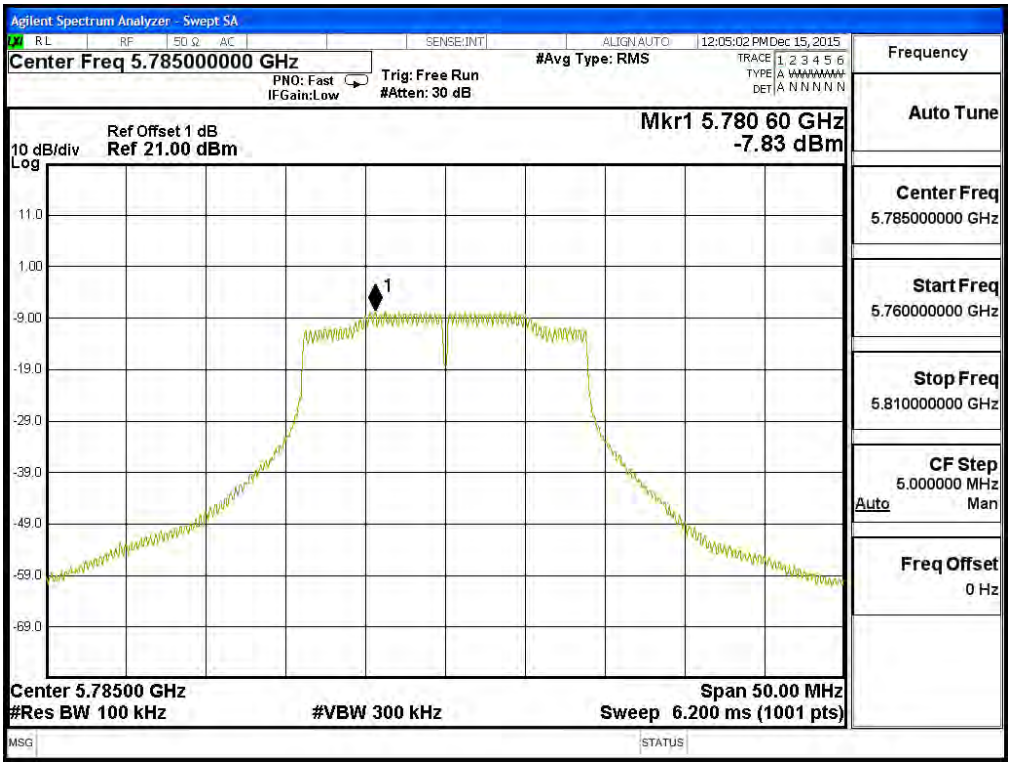
Product : Intel® Dual Band Wireless-AC 7265
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps)

Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
149	5745	-7.62	6.98	-0.64	<30	Pass
157	5785	-7.83	6.98	-0.85	<30	Pass
165	5825	-7.48	6.98	-0.50	<30	Pass

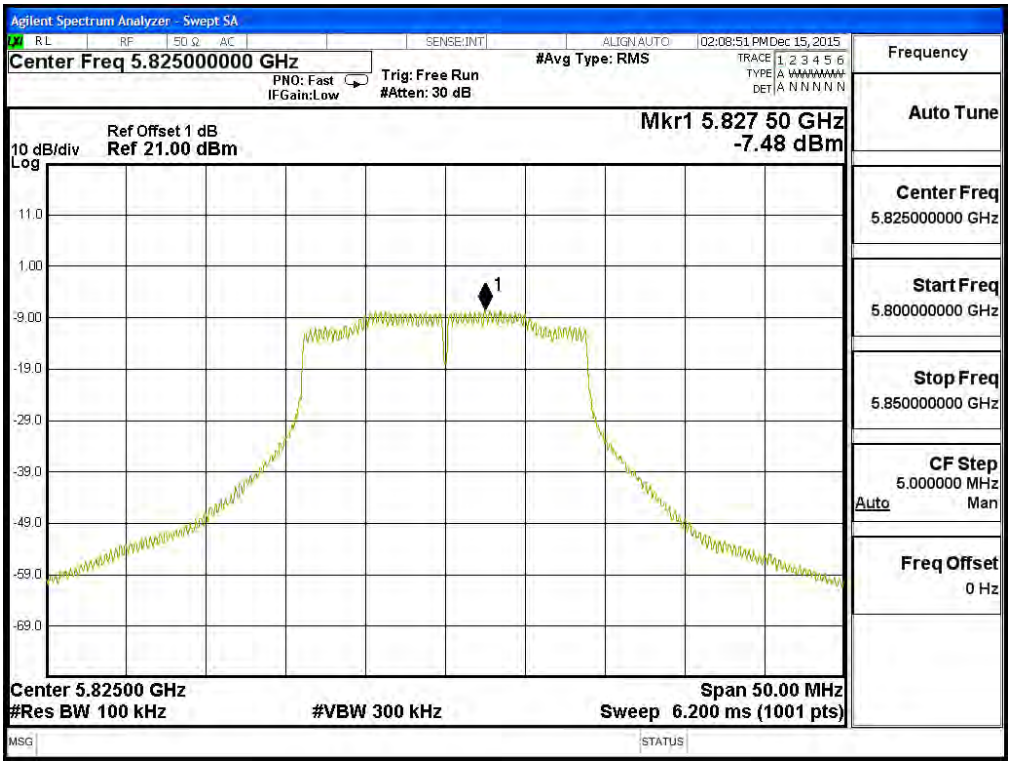
Note: Total PPSD = PPSD value + BWCF

Channel 149:

Channel 157:



Channel 165:

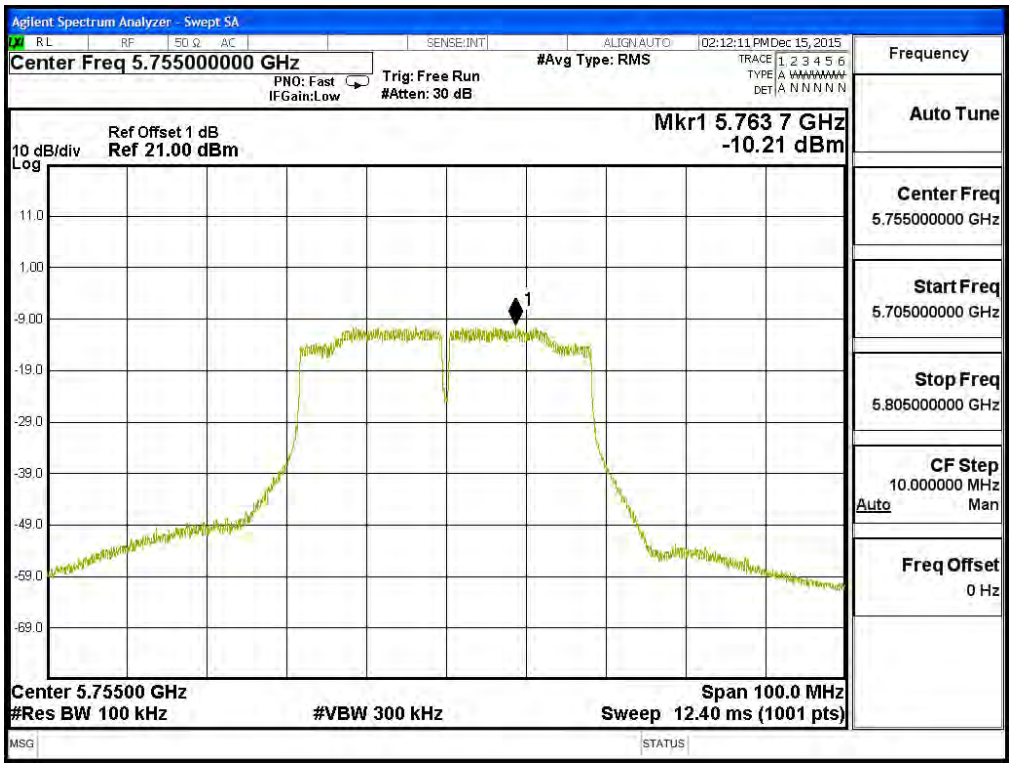


Product : Intel® Dual Band Wireless-AC 7265
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW-15Mbps)

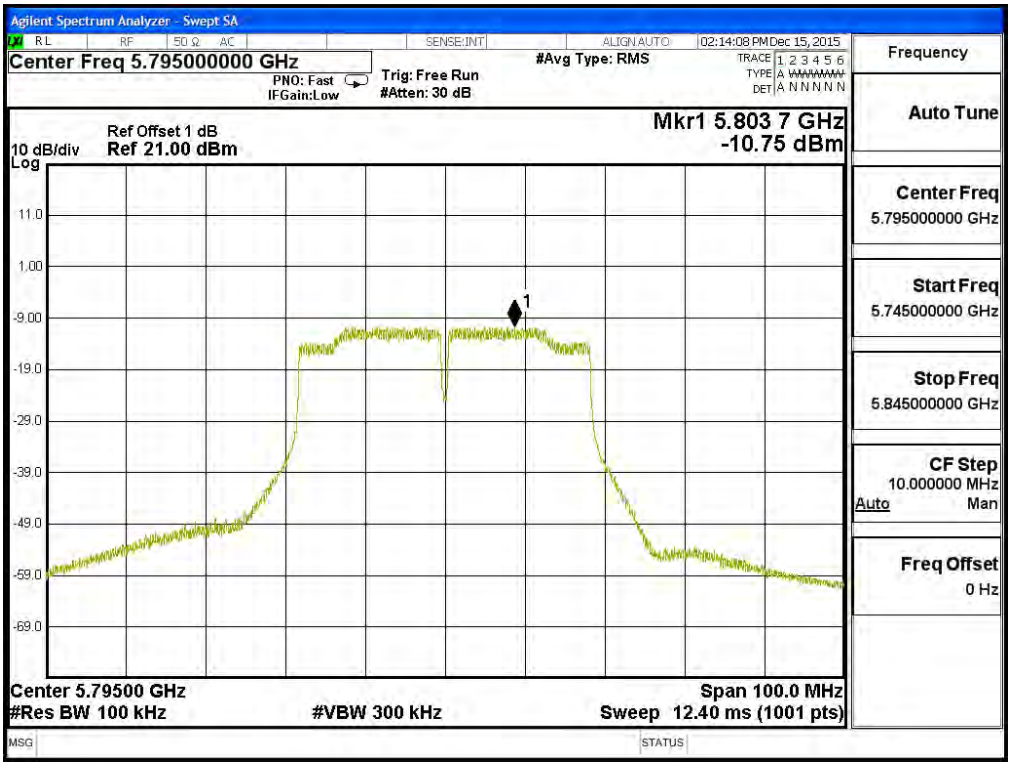
Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)1	Required Limit (dBm)	Result
151	5755	-10.21	6.98	-3.23	<30	Pass
159	5795	-10.75	6.98	-3.77	<30	Pass

Note: Total PPSD = PPSD value + BWCF

Channel 151



Channel 159

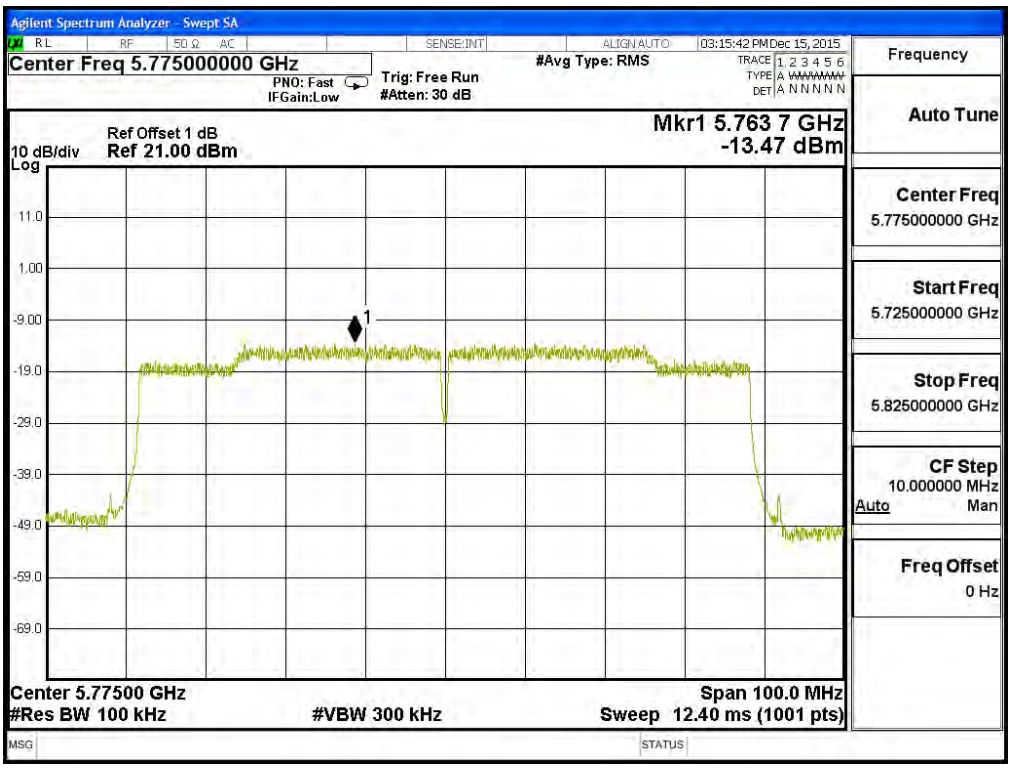

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.795000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
02:14:08 PM Dec 15, 2015
Ref Offset 1 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 5.803 7 GHz
-10.75 dBm
Center 5.79500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 12.40 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.745000000 GHz
Stop Freq
5.845000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps)

Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)1	Required Limit (dBm)	Result
155	5775	-13.47	6.98	-6.49	<30	Pass

Note: Total PPSD = PPSD value + BWCF

Channel 155

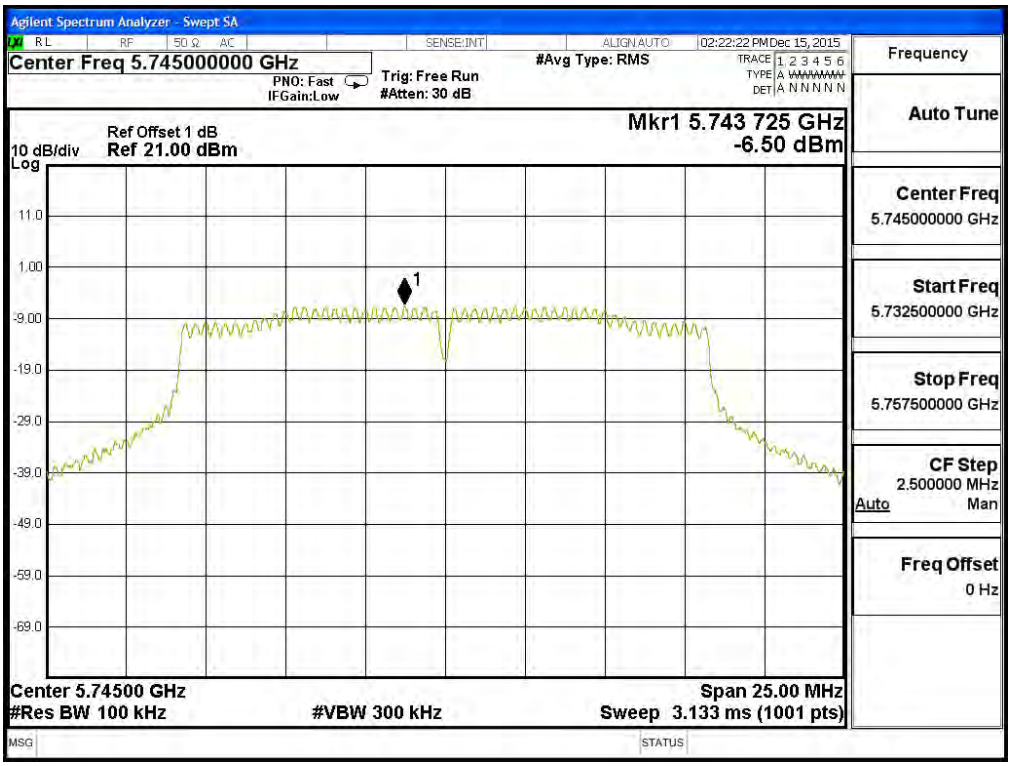


Product : Intel® Dual Band Wireless-AC 7265
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps)

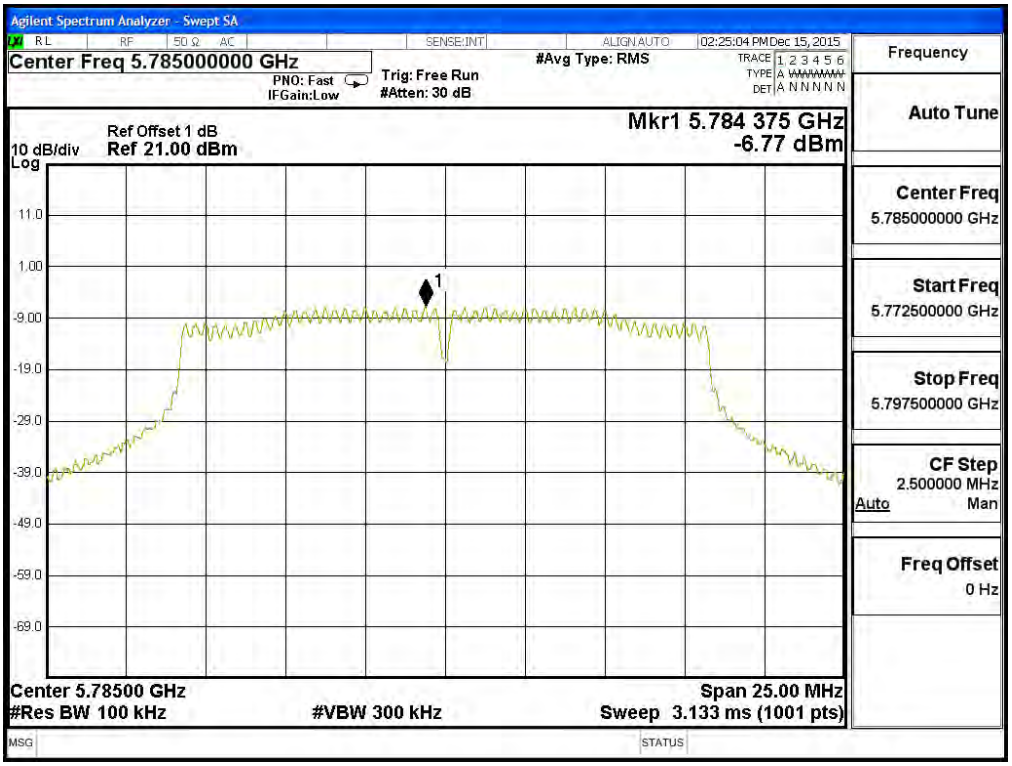
Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
149	5745	-6.50	6.98	0.48	<30	Pass
157	5785	-6.77	6.98	0.21	<30	Pass
165	5825	-6.62	6.98	0.36	<30	Pass

Note: Total PPSD = PPSD value + BWCF

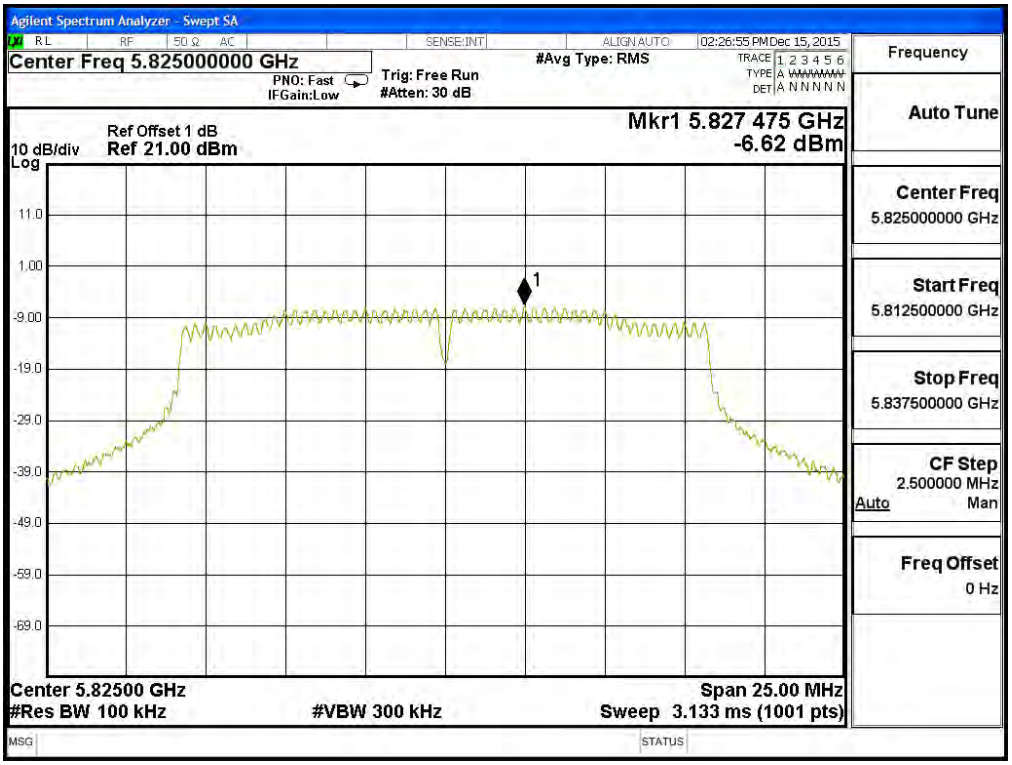
Channel 149:



Channel 157:



Channel 165:



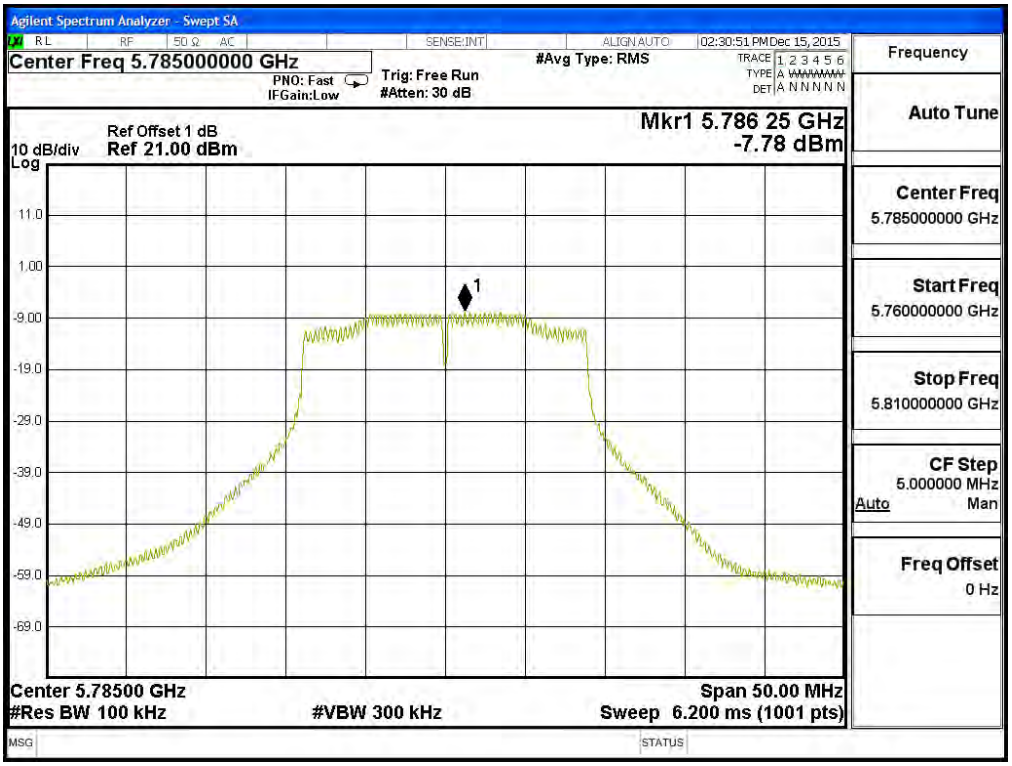
Product : Intel® Dual Band Wireless-AC 7265
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps)

Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)	Required Limit (dBm)	Result
149	5745	-7.79	6.98	-0.81	<30	Pass
157	5785	-7.78	6.98	-0.80	<30	Pass
165	5825	-7.01	6.98	-0.03	<30	Pass

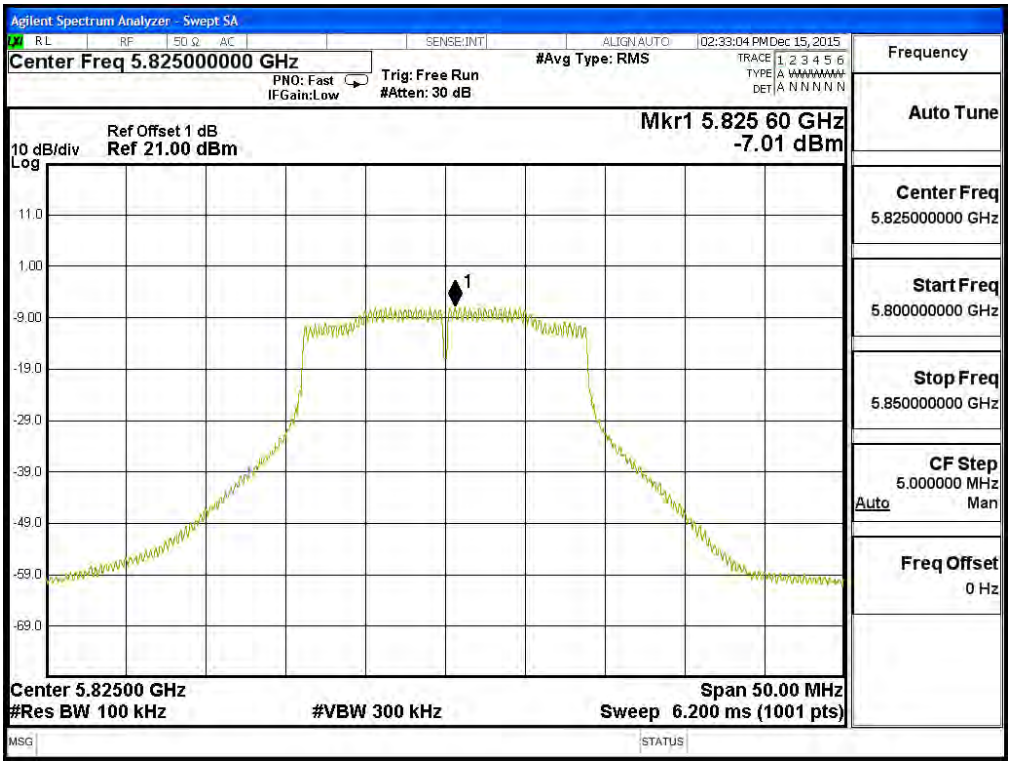
Note: Total PPSD = PPSD value + BWCF

Channel 149:

Channel 157:



Channel 165:

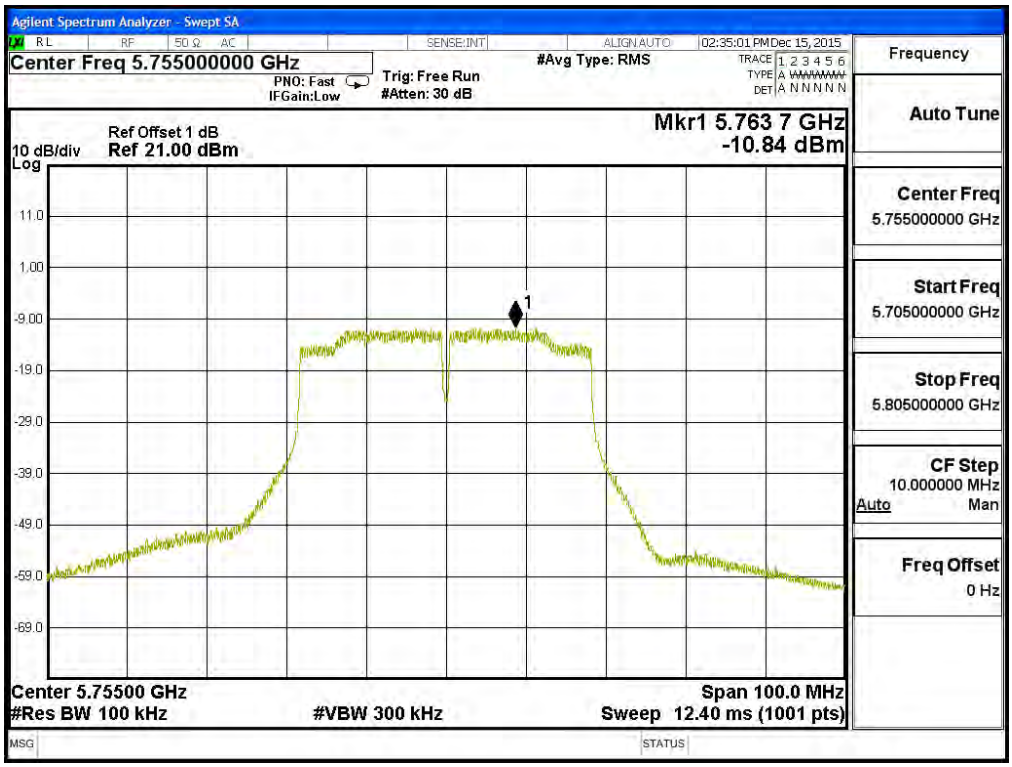


Product : Intel® Dual Band Wireless-AC 7265
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps)

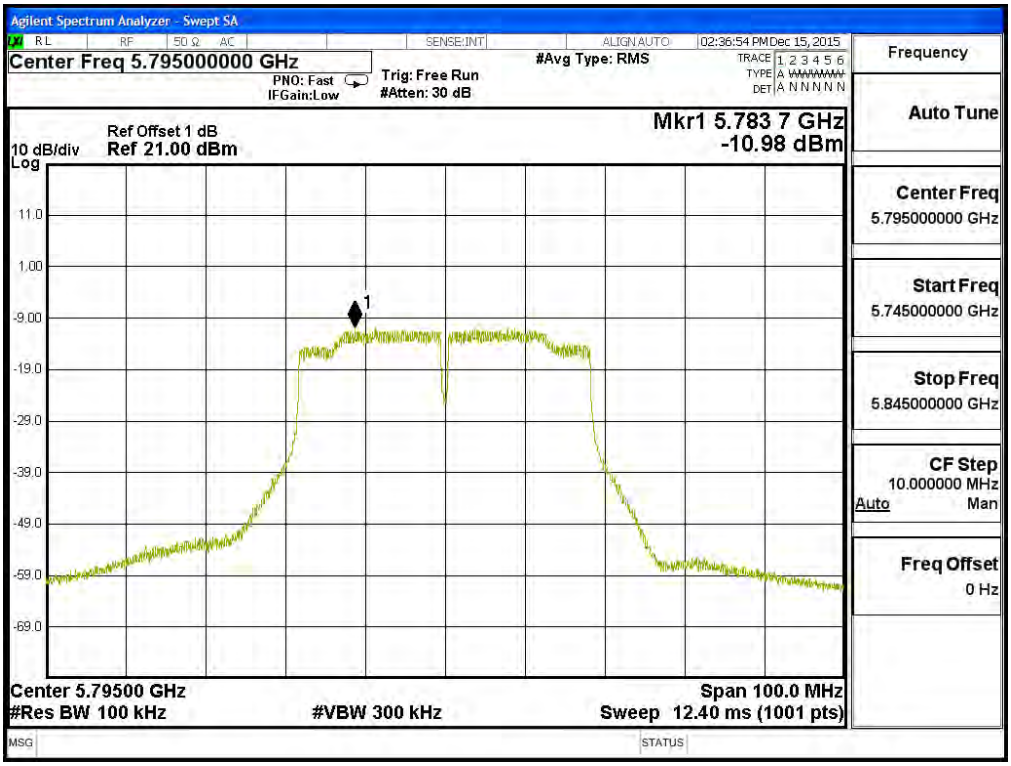
Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)1	Required Limit (dBm)	Result
151	5755	-10.84	6.98	-3.86	<30	Pass
159	5795	-10.98	6.98	-4.00	<30	Pass

Note: Total PPSD = PPSD value + BWCF

Channel 151



Channel 159

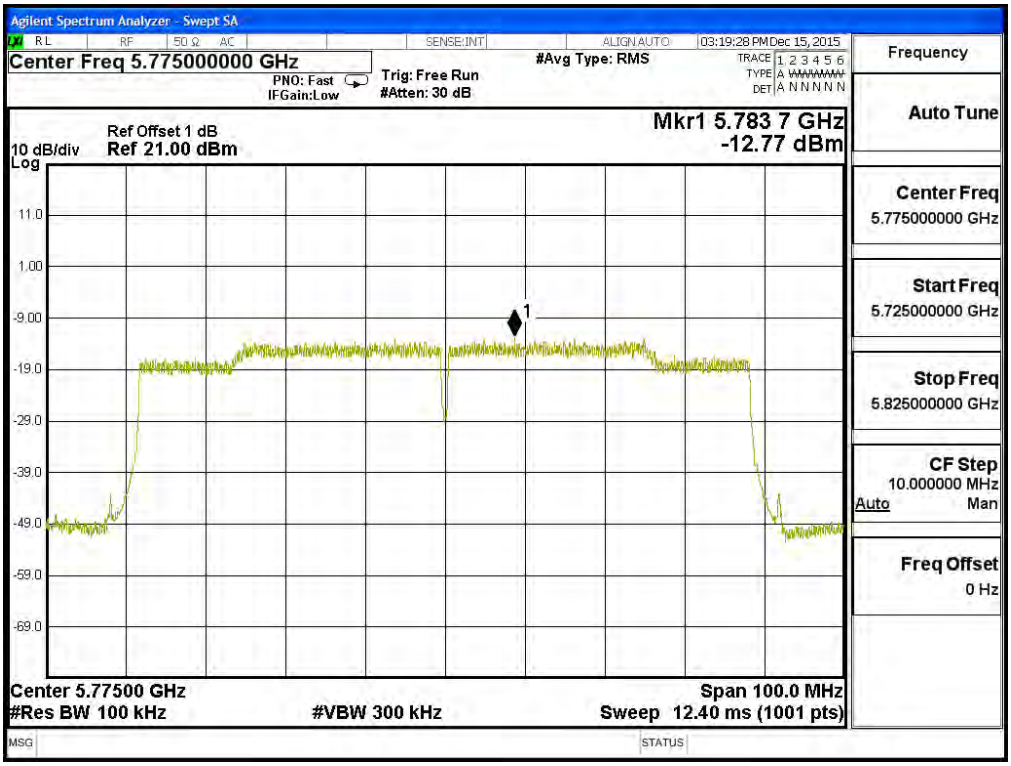

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.795000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
02:36:54 PM Dec 15, 2015
Ref Offset 1 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 5.783 7 GHz
-10.98 dBm
Center 5.79500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 12.40 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.745000000 GHz
Stop Freq
5.845000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps)

Channel Number	Frequency (MHz)	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)1	Required Limit (dBm)	Result
155	5775	-12.77	6.98	-5.79	<30	Pass

Note: Total PPSD = PPSD value + BWCF

Channel 155

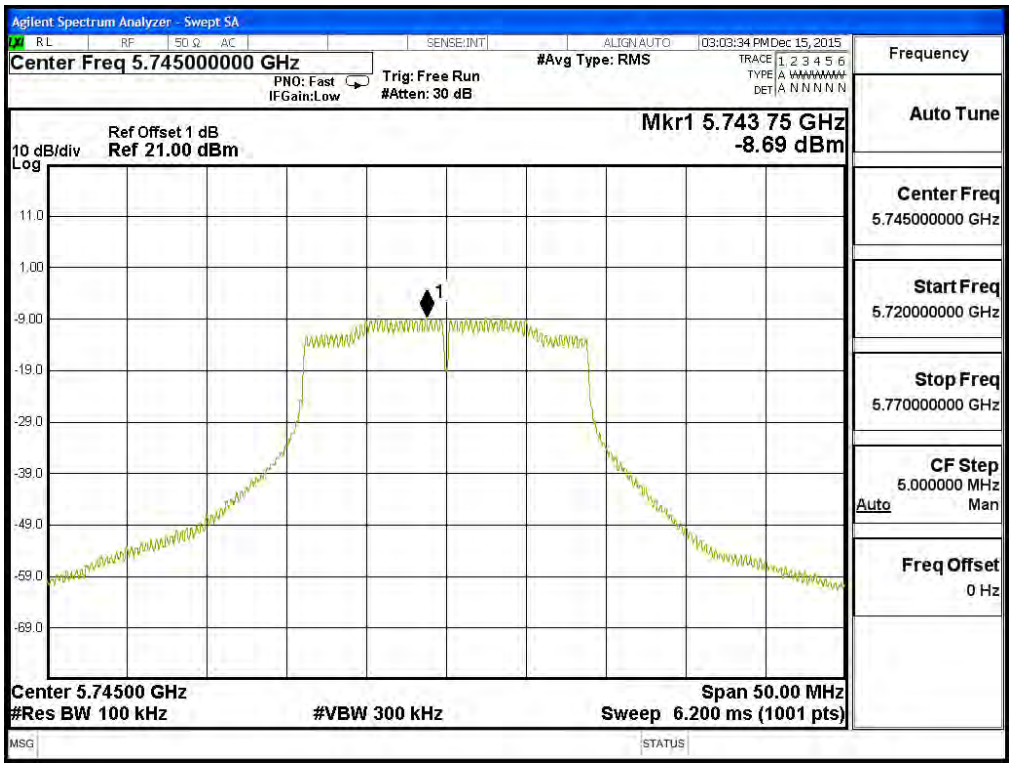


Product : Intel® Dual Band Wireless-AC 7265
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps)

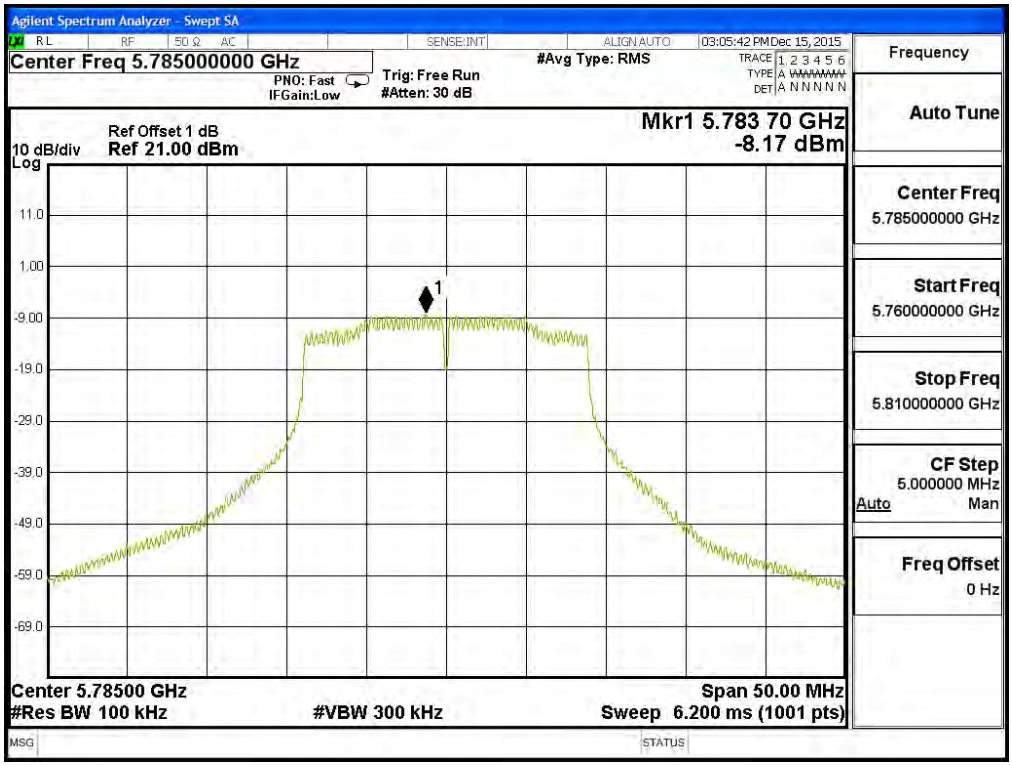
Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)[1]	Required Limit (dBm)	Result
149	5745	A	-8.690	6.98	1.300	<30	Pass
		B	-8.420	6.98	1.570	<30	Pass
157	5785	A	-8.170	6.98	1.820	<30	Pass
		B	-7.830	6.98	2.160	<30	Pass
165	5825	A	-7.590	6.98	2.400	<30	Pass
		B	-7.370	6.98	2.620	<30	Pass

Note: 1. The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911D01.
2. Total PPSD Value = PPSD/MHz value + 10*log 2 (two antennas) + BWCF.

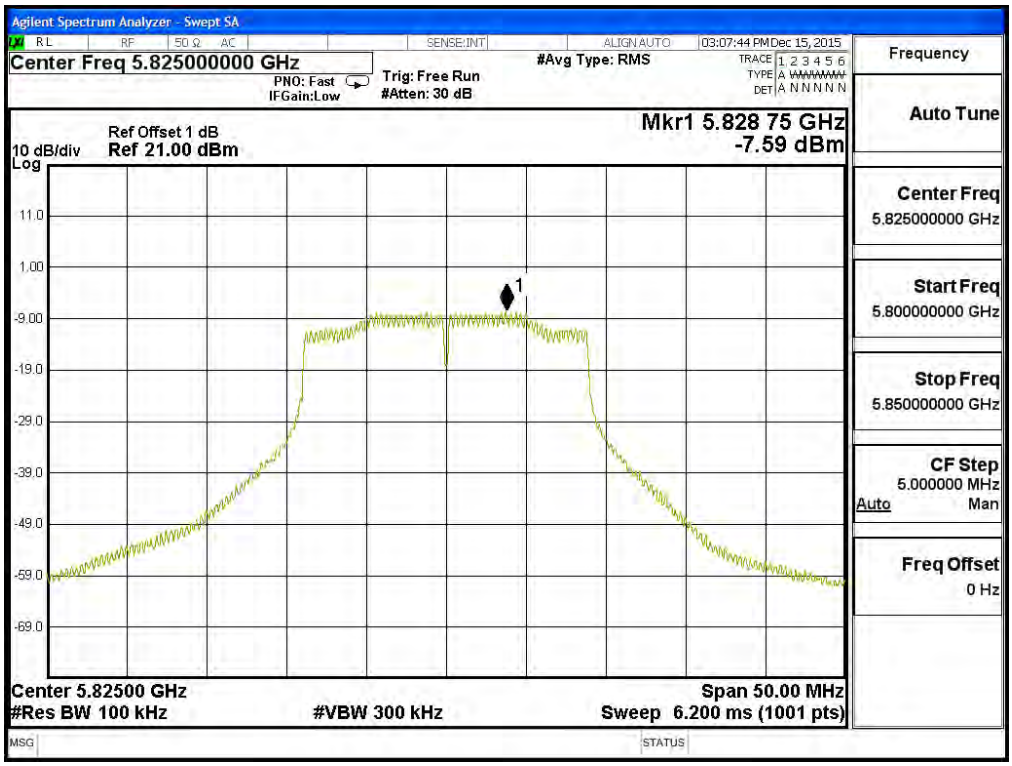
Channel 149 – Chain A



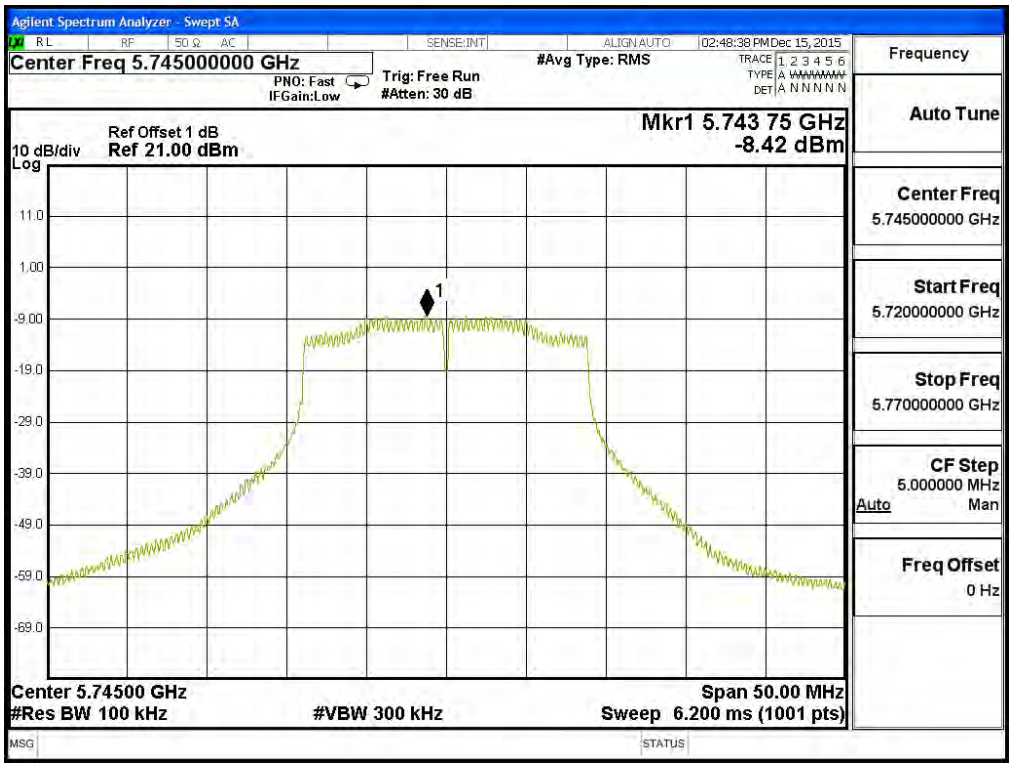
Channel 157 – Chain A



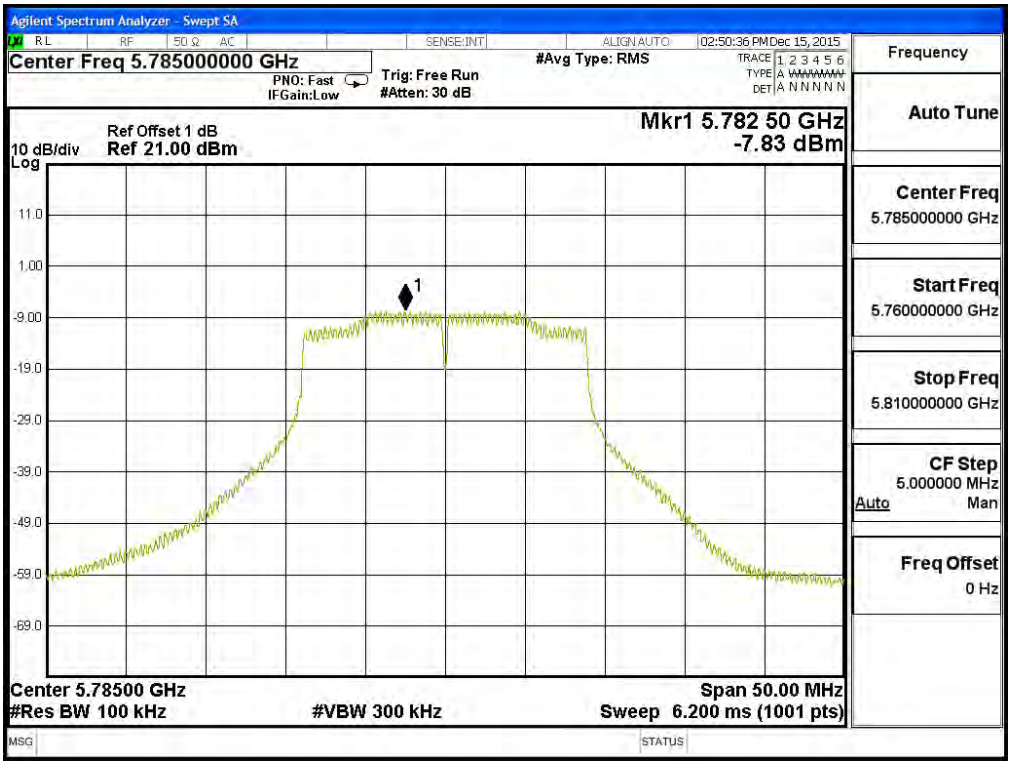
Channel 165 – Chain A



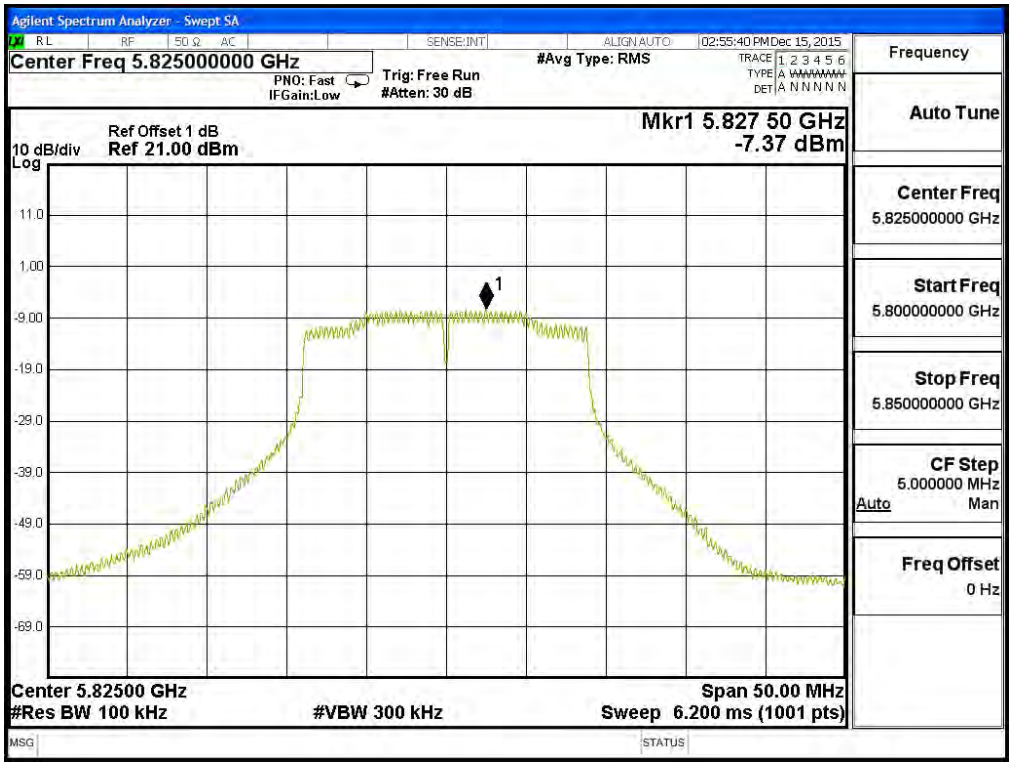
Channel 149 – Chain B



Channel 157 – Chain B



Channel 165 – Chain B

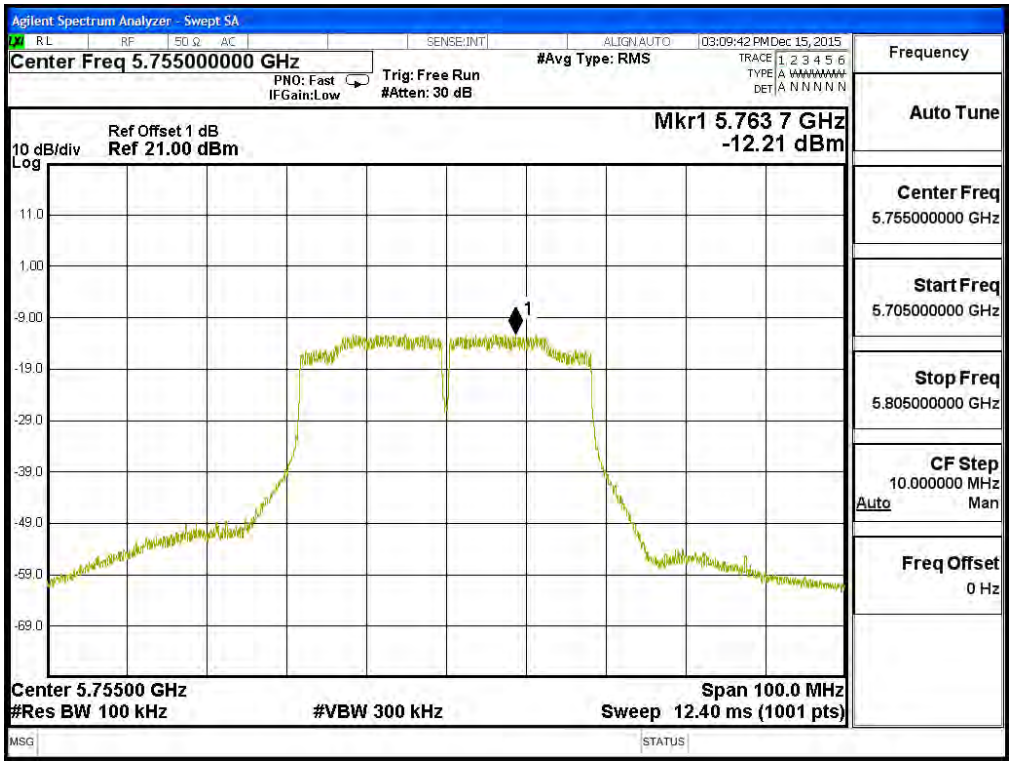


Product : Intel® Dual Band Wireless-AC 7265
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps)

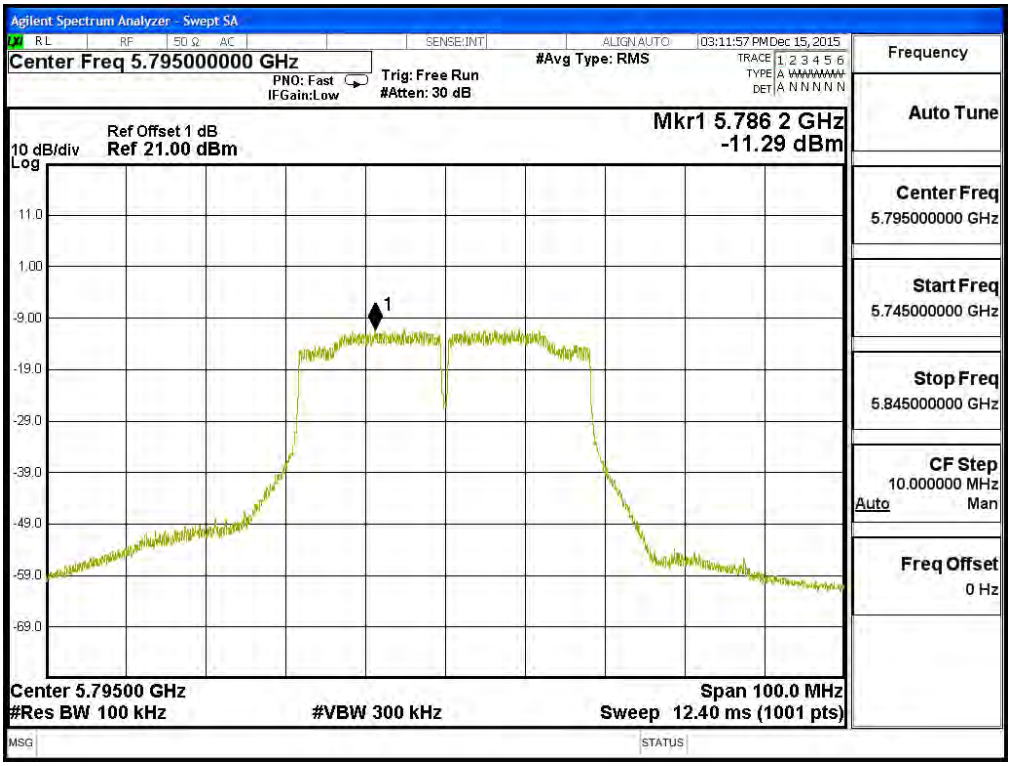
Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)[1]	Required Limit (dBm)	Result
151	5755	A	-12.210	6.98	-2.220	<30	Pass
		B	-11.290	6.98	-1.300	<30	Pass
159	5795	A	-11.290	6.98	-1.300	<30	Pass
		B	-10.410	6.98	-0.420	<30	Pass

Note: 1. The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911D01.
2. Total PPSD Value = PPSD/MHz value + 10*log 2 (two antennas) + BWCF.

Channel 151 – Chain A

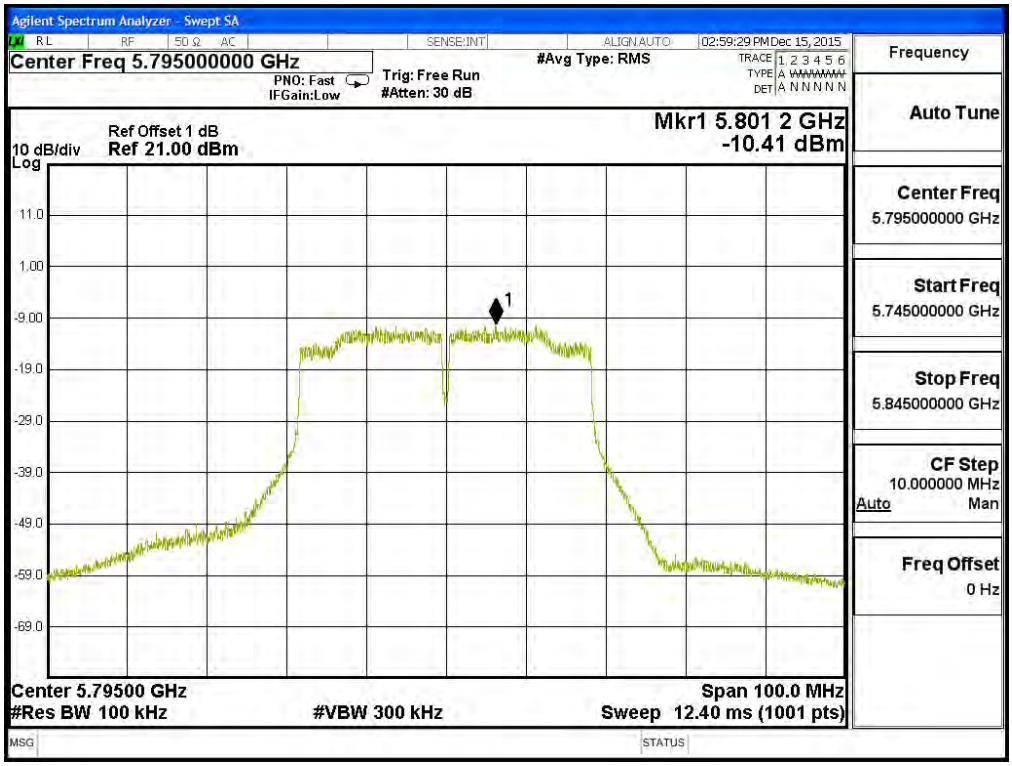


Channel 159 – Chain A



Channel 151 – Chain B

Channel 159 – Chain B



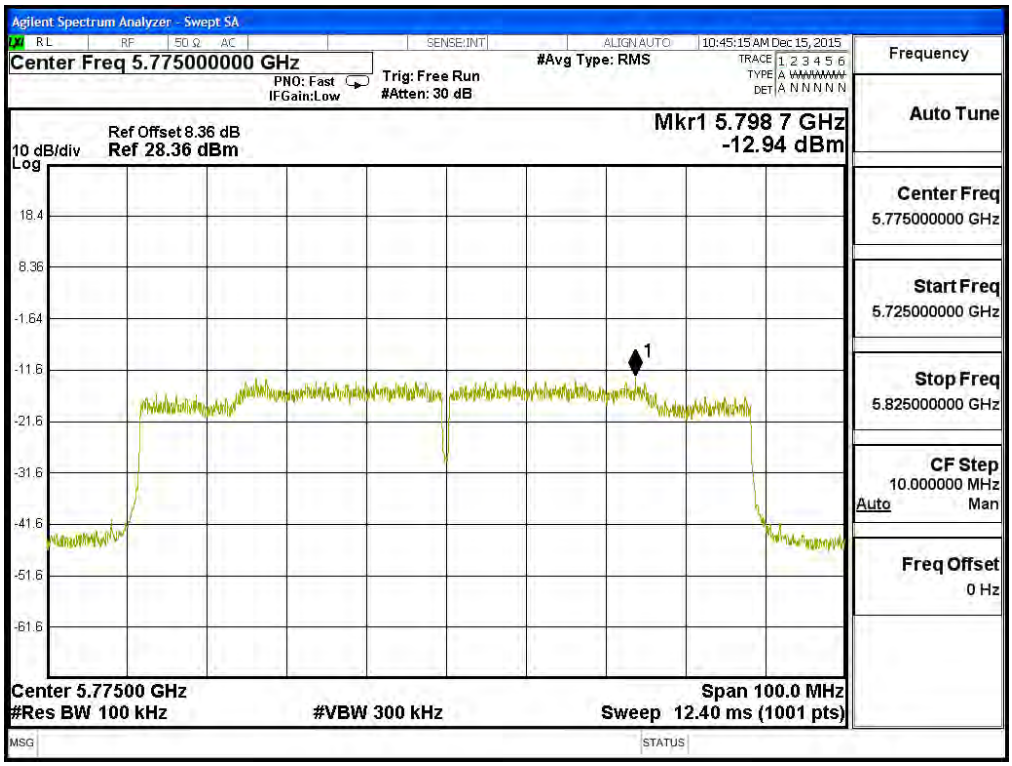
Product : Intel® Dual Band Wireless-AC 7265
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps)

Channel Number	Frequency (MHz)	Chain	PPSD (dBm)	BWCF (dB)	Total PPSD (dBm)[1]	Required Limit (dBm)	Result
155	5775	A	-12.940	6.98	-2.950	<30	Pass
		B	-13.040	6.98	-3.050	<30	Pass

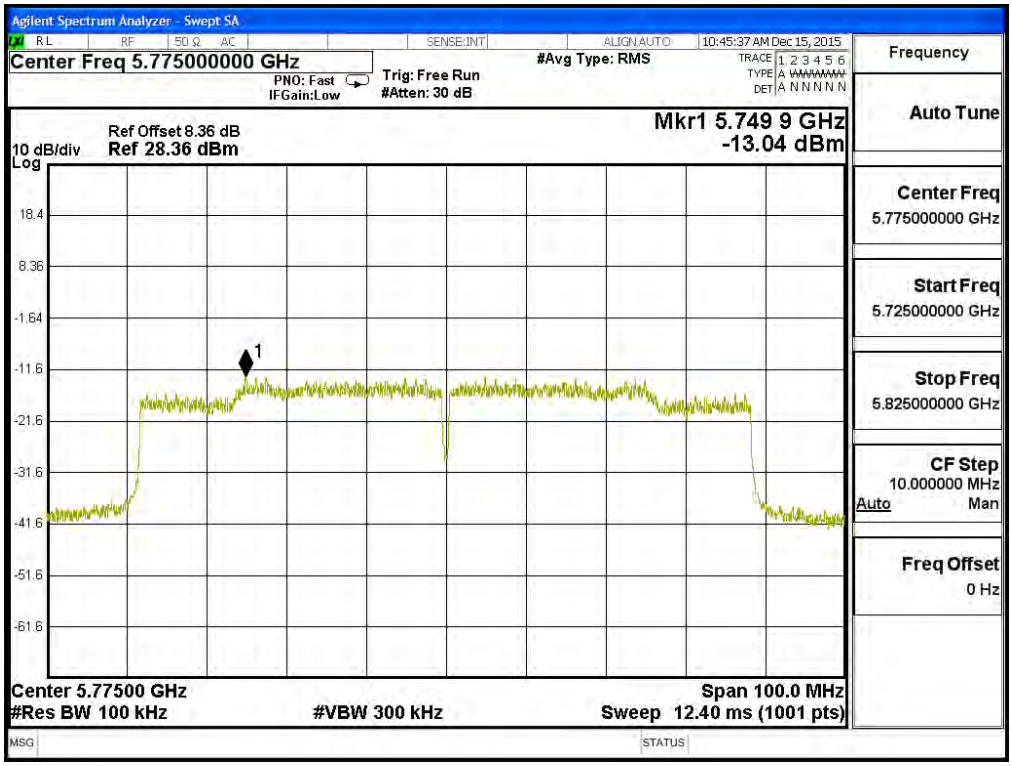
Note: 1. The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911D01.

2. Total PPSD Value = PPSD/MHz value + 10*log 2 (two antennas) + BWCF.

Channel 155: CHAIN A



Channel 155: CHAIN B



5. Radiated Emission

5.1. Test Equipment

The following test equipments are used during the radiated emission test:

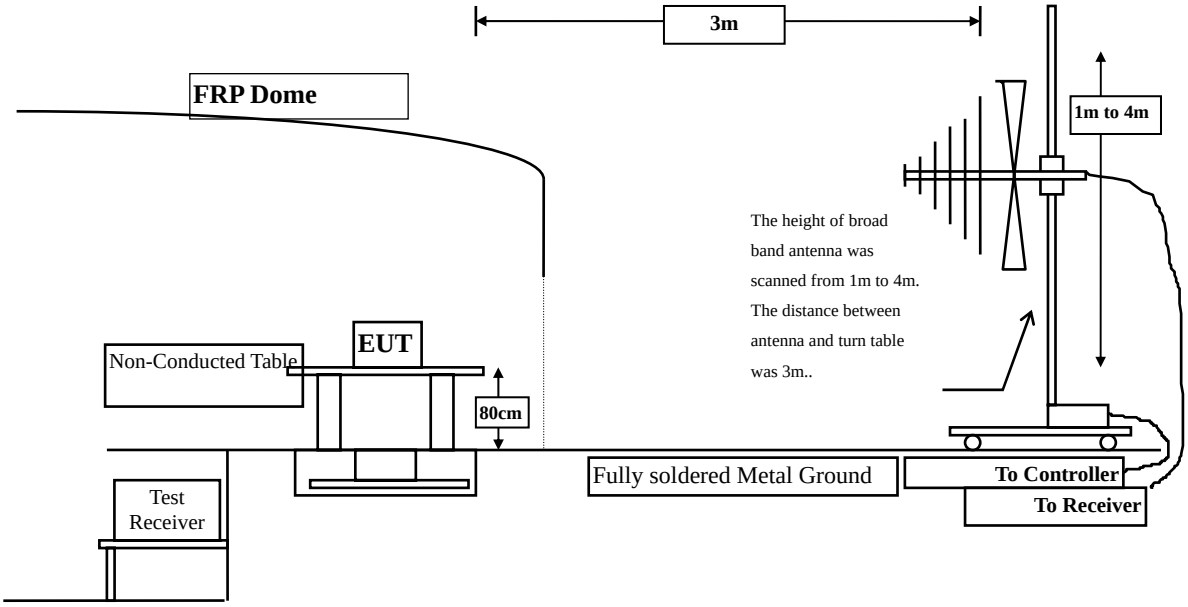
Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
☒Site # 3	X	Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep, 2015
	X	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun, 2015
	X	EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun, 2015
	X	Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun, 2015
	X	Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun, 2015

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
☒CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2016
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2016
	X	Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2016
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

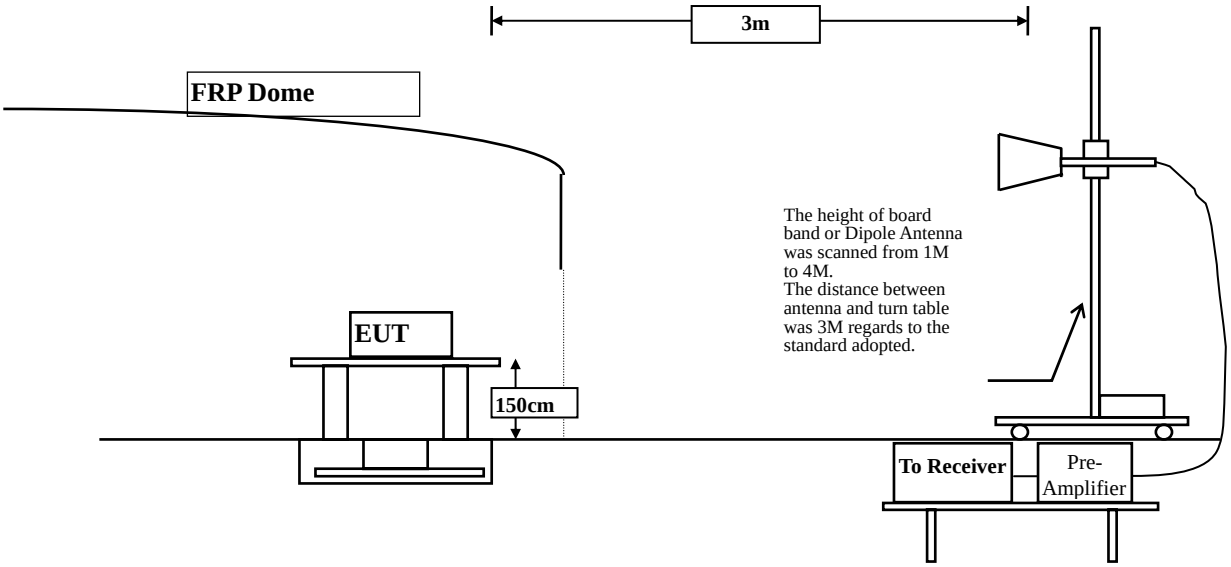
Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

5.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



5.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

5.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to FCC KDB-789033 test procedure for compliance to FCC 47CFR 15.407 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground,when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range form 9kHz - 10th Harmonic of fundamental was investigated.

5.5. Uncertainty

± 3.8 dB below 1GHz

± 3.9 dB above 1GHz

5.6. Test Result of Radiated Emission

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps) (5745MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11490.000	17.106	36.120	53.227	-20.773	74.000
17235.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11490.000	18.034	35.626	53.661	-20.339	74.000
17235.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps) (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
11570.000	16.809	35.270	52.079	-21.921	74.000
17355.000	*	*	*	*	74.000
20800.000	*	*	*	*	74.000
26000.000	*	*	*	*	74.000
31200.000	*	*	*	*	74.000
36400.000	*	*	*	*	74.000
Average					
Detector:					
*	*	*	*	*	*
Vertical					
Peak Detector:					
11570.000	17.698	36.130	53.828	-20.172	74.000
17355.000	*	*	*	*	74.000
20800.000	*	*	*	*	74.000
26000.000	*	*	*	*	74.000
31200.000	*	*	*	*	74.000
36400.000	*	*	*	*	74.000
Average					
Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps) (5825MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11650.000	16.158	35.580	51.738	-22.262	74.000
17475.000	*	*	*	*	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11650.000	17.274	36.090	53.365	-20.635	74.000
17475.000	*	*	*	*	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	:	Intel® Dual Band Wireless-AC 7265
Test Item	:	Harmonic Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps) (5745MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
11490.000	17.106	34.067	51.173	-22.827	74.000
17235.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical					
Peak Detector:					
11490.000	18.034	35.750	53.785	-20.215	74.000
17235.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps) (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
11570.000	16.809	35.690	52.499	-21.501	74.000
17355.000	*	*	*	*	74.000
20880.000	*	*	*	*	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical					
Peak Detector:					
11570.000	17.698	35.950	53.648	-20.352	74.000
17355.000	*	*	*	*	74.000
20880.000	*	*	*	*	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps) (5825MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11650.000	16.158	35.910	52.068	-21.932	74.000
17475.000	*	*	*	*	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11650.000	17.274	36.020	53.295	-20.705	74.000
17475.000	*	*	*	*	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	:	Intel® Dual Band Wireless-AC 7265
Test Item	:	Harmonic Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1 SISO A: Transmit (802.11n-40BW-15Mbps) (5755MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11510.000	17.124	35.960	53.084	-20.916	74.000
17265.000	*	*	*	*	74.000
20760.000	*	*	*	*	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11510.000	18.081	35.680	53.761	-20.239	74.000
17265.000	*	*	*	*	74.000
20760.000	*	*	*	*	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW-15Mbps) (5795MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11590.000	16.701	35.720	52.420	-21.580	74.000
17385.000	*	*	*	*	74.000
20920.000	*	*	*	*	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11590.000	17.567	35.890	53.456	-20.544	74.000
17385.000	*	*	*	*	74.000
20920.000	*	*	*	*	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:
1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11550.000	16.378	35.592	51.970	-22.030	74.000
17325.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11550.000	16.378	35.802	52.180	-21.820	74.000
17325.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:
1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps) (5745MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11490.000	17.106	35.810	52.917	-21.083	74.000
17235.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11490.000	18.034	35.930	53.965	-20.035	74.000
17235.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps) (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
11570.000	16.809	35.790	52.599	-21.401	74.000
17355.000	*	*	*	*	74.000
20800.000	*	*	*	*	74.000
26000.000	*	*	*	*	74.000
31200.000	*	*	*	*	74.000
36400.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical					
Peak Detector:					
11570.000	17.698	35.990	53.688	-20.312	74.000
17355.000	*	*	*	*	74.000
20800.000	*	*	*	*	74.000
26000.000	*	*	*	*	74.000
31200.000	*	*	*	*	74.000
36400.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps) (5825MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11650.000	16.158	36.890	53.048	-20.952	74.000
17475.000	*	*	*	*	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11650.000	17.274	36.010	53.285	-20.715	74.000
17475.000	*	*	*	*	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps) (5745MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
11490.000	17.106	35.650	52.757	-21.243	74.000
17235.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical					
Peak Detector:					
11490.000	18.034	35.830	53.865	-20.135	74.000
17235.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps) (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
11570.000	16.809	35.620	52.429	-21.571	74.000
17355.000	*	*	*	*	74.000
20880.000	*	*	*	*	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical					
Peak Detector:					
11570.000	17.698	35.910	53.608	-20.392	74.000
17355.000	*	*	*	*	74.000
20880.000	*	*	*	*	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps) (5825MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11650.000	16.158	36.020	52.178	-21.822	74.000
17475.000	*	*	*	*	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11650.000	17.274	36.210	53.485	-20.515	74.000
17475.000	*	*	*	*	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps) (5755MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11510.000	17.124	36.020	53.144	-20.856	74.000
17265.000	*	*	*	*	74.000
20760.000	*	*	*	*	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11510.000	18.081	35.730	53.811	-20.189	74.000
17265.000	*	*	*	*	74.000
20760.000	*	*	*	*	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps) (5795MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11590.000	16.701	35.770	52.470	-21.530	74.000
17385.000	*	*	*	*	74.000
20920.000	*	*	*	*	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11590.000	17.567	35.940	53.506	-20.494	74.000
17385.000	*	*	*	*	74.000
20920.000	*	*	*	*	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:
1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11550.000	16.378	36.440	52.818	-21.182	74.000
17325.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11550.000	16.378	36.280	52.658	-21.342	74.000
17325.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps) (5745MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
11490.000	17.106	35.990	53.097	-20.903	74.000
17235.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical					
Peak Detector:					
11490.000	18.034	35.640	53.675	-20.325	74.000
17235.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps) (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11570.000	16.809	35.730	52.539	-21.461	74.000
17355.000	*	*	*	*	74.000
20880.000	*	*	*	*	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11570.000	17.698	36.020	53.718	-20.282	74.000
17355.000	*	*	*	*	74.000
20880.000	*	*	*	*	74.000
26100.000	*	*	*	*	74.000
31320.000	*	*	*	*	74.000
36540.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps) (5825MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11650.000	16.158	35.660	51.818	-22.182	74.000
17475.000	*	*	*	*	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11650.000	17.274	35.760	53.035	-20.965	74.000
17475.000	*	*	*	*	74.000
20960.000	*	*	*	*	74.000
26200.000	*	*	*	*	74.000
31440.000	*	*	*	*	74.000
36680.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:
1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps) (5755MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11510.000	17.124	35.820	52.944	-21.056	74.000
17265.000	*	*	*	*	74.000
20760.000	*	*	*	*	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11510.000	18.081	35.750	53.831	-20.169	74.000
17265.000	*	*	*	*	74.000
20760.000	*	*	*	*	74.000
25950.000	*	*	*	*	74.000
31140.000	*	*	*	*	74.000
36330.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps) (5795MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11590.000	16.701	35.790	52.490	-21.510	74.000
17385.000	*	*	*	*	74.000
20920.000	*	*	*	*	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11590.000	17.567	35.890	53.456	-20.544	74.000
17385.000	*	*	*	*	74.000
20920.000	*	*	*	*	74.000
26150.000	*	*	*	*	74.000
31380.000	*	*	*	*	74.000
36610.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal Peak Detector:					
11550.000	15.426	35.310	50.736	-23.264	74.000
17325.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*
Vertical Peak Detector:					
11550.000	15.426	37.970	53.396	-20.604	74.000
17325.000	*	*	*	*	74.000
20720.000	*	*	*	*	74.000
25900.000	*	*	*	*	74.000
31080.000	*	*	*	*	74.000
36260.000	*	*	*	*	74.000
Average Detector:					
*	*	*	*	*	*

Note:
1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps) (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector					
276.014	2.721	22.543	25.264	-20.736	46.000
406.754	3.099	20.723	23.822	-22.178	46.000
572.638	3.460	22.101	25.561	-20.439	46.000
697.754	3.739	21.611	25.350	-20.650	46.000
832.710	3.936	22.383	26.319	-19.681	46.000
963.449	3.941	20.962	24.903	-29.097	54.000
Vertical					
Peak Detector					
253.522	6.036	21.782	27.817	-18.183	46.000
384.261	6.459	22.317	28.776	-17.224	46.000
516.406	6.743	21.472	28.215	-17.785	46.000
626.058	6.983	21.492	28.475	-17.525	46.000
717.435	7.221	22.179	29.399	-16.601	46.000
866.449	7.345	21.495	28.840	-17.160	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps) (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector					
93.261	2.061	21.261	23.322	-20.178	43.500
249.304	2.593	24.288	26.881	-19.119	46.000
412.377	3.102	21.441	24.543	-21.457	46.000
551.551	3.401	21.767	25.168	-20.832	46.000
724.464	3.821	23.796	27.618	-18.382	46.000
874.884	3.907	23.746	27.653	-18.347	46.000
Vertical					
Peak Detector					
257.739	6.047	23.632	29.679	-16.321	46.000
426.435	6.547	21.650	28.197	-17.803	46.000
558.580	6.843	21.856	28.699	-17.301	46.000
675.261	7.100	22.859	29.959	-16.041	46.000
783.507	7.358	22.175	29.533	-16.467	46.000
900.188	7.314	21.664	28.978	-17.022	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW-15Mbps) (5755MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector					
100.290	2.024	22.331	24.355	-19.145	43.500
225.406	2.496	22.615	25.111	-20.889	46.000
346.304	2.914	22.508	25.422	-20.578	46.000
455.957	3.205	21.585	24.790	-21.210	46.000
637.304	3.628	21.336	24.964	-21.036	46.000
814.435	3.901	18.986	22.887	-23.113	46.000
Vertical					
Peak Detector					
228.217	5.933	24.329	30.262	-15.738	46.000
398.319	6.501	22.155	28.656	-17.344	46.000
554.362	6.833	22.435	29.268	-16.732	46.000
727.275	7.251	22.733	29.984	-16.016	46.000
853.797	7.368	21.548	28.916	-17.084	46.000
967.667	7.361	22.470	29.831	-24.169	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector					
189.080	-10.027	42.950	32.923	-10.577	43.500
307.420	-4.120	42.103	37.983	-8.017	46.000
456.800	2.432	36.142	38.574	-7.426	46.000
610.060	3.657	34.489	38.146	-7.854	46.000
763.320	5.113	24.286	29.399	-16.601	46.000
934.040	6.956	30.428	37.384	-8.616	46.000
Vertical					
Peak Detector					
222.060	-6.484	42.237	35.752	-10.248	46.000
361.740	-0.646	38.483	37.836	-8.164	46.000
540.220	2.169	36.583	38.752	-7.248	46.000
662.440	-0.998	32.512	31.514	-14.486	46.000
811.820	2.851	35.171	38.022	-7.978	46.000
968.960	3.936	32.932	36.868	-17.132	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps) (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector					
114.348	2.072	21.438	23.510	-19.990	43.500
228.217	2.510	24.358	26.868	-19.132	46.000
356.145	2.949	21.728	24.677	-21.323	46.000
458.768	3.220	23.936	27.156	-18.844	46.000
621.841	3.538	22.358	25.896	-20.104	46.000
784.913	3.939	21.946	25.885	-20.115	46.000
Vertical					
Peak Detector					
205.725	5.821	22.283	28.103	-15.397	43.500
343.493	6.325	23.040	29.365	-16.635	46.000
516.406	6.743	20.837	27.580	-18.420	46.000
680.884	7.112	22.256	29.368	-16.632	46.000
832.710	7.359	21.598	28.957	-17.043	46.000
929.710	7.306	21.778	29.084	-16.916	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps) (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector					
181.826	2.354	23.937	26.291	-17.209	43.500
344.899	2.910	22.745	25.655	-20.345	46.000
478.449	3.257	22.149	25.406	-20.594	46.000
631.681	3.595	21.546	25.141	-20.859	46.000
772.261	3.913	21.423	25.336	-20.664	46.000
893.159	3.896	21.750	25.646	-20.354	46.000
Vertical					
Peak Detector					
142.464	5.643	21.419	27.062	-16.438	43.500
285.855	6.192	23.869	30.061	-15.939	46.000
454.551	6.619	22.364	28.983	-17.017	46.000
638.710	7.058	22.040	29.098	-16.902	46.000
769.449	7.334	23.185	30.519	-15.481	46.000
912.841	7.302	21.964	29.266	-16.734	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps) (5755MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector					
229.623	2.515	22.491	25.006	-20.994	46.000
378.638	3.018	22.389	25.407	-20.593	46.000
531.870	3.373	22.493	25.866	-20.134	46.000
675.261	3.677	22.559	26.236	-19.764	46.000
829.899	3.924	22.947	26.870	-19.130	46.000
952.203	3.920	22.436	26.356	-19.644	46.000
Vertical					
Peak Detector					
97.478	5.462	22.040	27.502	-15.998	43.500
216.971	5.874	22.625	28.499	-17.501	46.000
357.551	6.375	22.488	28.863	-17.137	46.000
524.841	6.771	22.765	29.536	-16.464	46.000
748.362	7.299	22.875	30.173	-15.827	46.000
932.522	7.313	24.168	31.481	-14.519	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector					
103.720	-8.230	33.292	25.061	-18.439	43.500
241.460	-6.590	36.001	29.411	-16.589	46.000
445.160	-0.432	38.900	38.468	-7.532	46.000
593.570	3.492	35.533	39.025	-6.975	46.000
741.980	3.892	34.004	37.896	-8.104	46.000
935.010	6.813	25.099	31.912	-14.088	46.000
Vertical					
Peak Detector					
102.750	-5.326	32.941	27.615	-15.885	43.500
216.240	-6.051	37.548	31.497	-14.503	46.000
374.350	0.224	26.101	26.325	-19.675	46.000
593.570	-0.388	29.926	29.538	-16.462	46.000
787.570	2.719	24.742	27.461	-18.539	46.000
890.390	1.095	29.445	30.540	-15.460	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps) (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector					
226.812	2.503	21.412	23.915	-22.085	46.000
375.826	3.009	21.672	24.681	-21.319	46.000
522.029	3.342	21.898	25.240	-20.760	46.000
679.478	3.687	21.570	25.257	-20.743	46.000
824.275	3.893	22.880	26.773	-19.227	46.000
938.145	3.893	22.164	26.057	-19.943	46.000
Vertical					
Peak Detector					
100.290	5.447	21.070	26.517	-16.983	43.500
252.116	6.029	23.294	29.323	-16.677	46.000
363.174	6.396	23.294	29.690	-16.310	46.000
507.971	6.729	23.165	29.894	-16.106	46.000
642.928	7.081	23.625	30.706	-15.294	46.000
810.217	7.348	21.564	28.912	-17.088	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps) (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector					
228.217	2.510	24.541	27.051	-18.949	46.000
357.551	2.952	21.800	24.752	-21.248	46.000
486.884	3.274	22.806	26.080	-19.920	46.000
637.304	3.628	22.084	25.712	-20.288	46.000
789.130	3.939	22.296	26.235	-19.765	46.000
970.478	3.939	21.619	25.558	-28.442	54.000
Vertical					
Peak Detector					
145.275	5.658	21.980	27.638	-15.862	43.500
285.855	6.192	23.347	29.539	-16.461	46.000
427.841	6.548	21.124	27.672	-18.328	46.000
575.449	6.894	22.065	28.959	-17.041	46.000
717.435	7.221	21.936	29.156	-16.844	46.000
874.884	7.330	21.870	29.200	-16.800	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Intel® Dual Band Wireless-AC 7265
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps) (5775MHz)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
Peak Detector					
214.300	-10.329	43.410	33.081	-10.419	43.500
377.260	1.107	37.506	38.613	-7.387	46.000
507.240	2.529	35.870	38.399	-7.601	46.000
635.280	1.798	36.313	38.111	-7.889	46.000
776.900	5.167	34.469	39.636	-6.364	46.000
941.800	6.790	22.674	29.464	-16.536	46.000
Vertical					
Peak Detector					
185.200	-5.401	37.939	32.538	-10.962	43.500
342.340	-0.936	38.924	37.988	-8.012	46.000
495.600	-1.237	39.410	38.173	-7.827	46.000
691.540	2.092	34.996	37.088	-8.912	46.000
825.400	3.016	26.510	29.526	-16.474	46.000
965.080	3.832	35.371	39.203	-14.797	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

6. Band Edge

6.1. Test Equipment

RF Radiated Measurement:

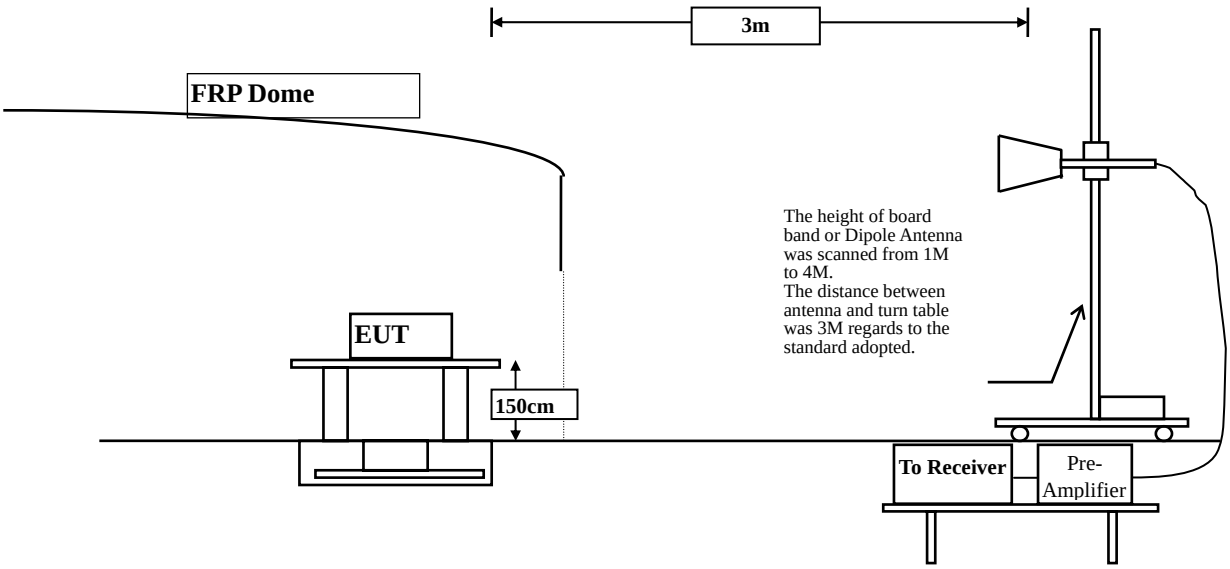
The following test equipments are used during the band edge tests:

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
☒CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2016
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2016
	X	Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2016
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

Note: 1. All instruments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

6.2. Test Setup

RF Radiated Measurement:



6.3. Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.

Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks : 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

For transmitters operating in the 5.725-5.85GHz band:

(i) All emissions shall be limited to a level of － 27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

6.4. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

6.5. Uncertainty

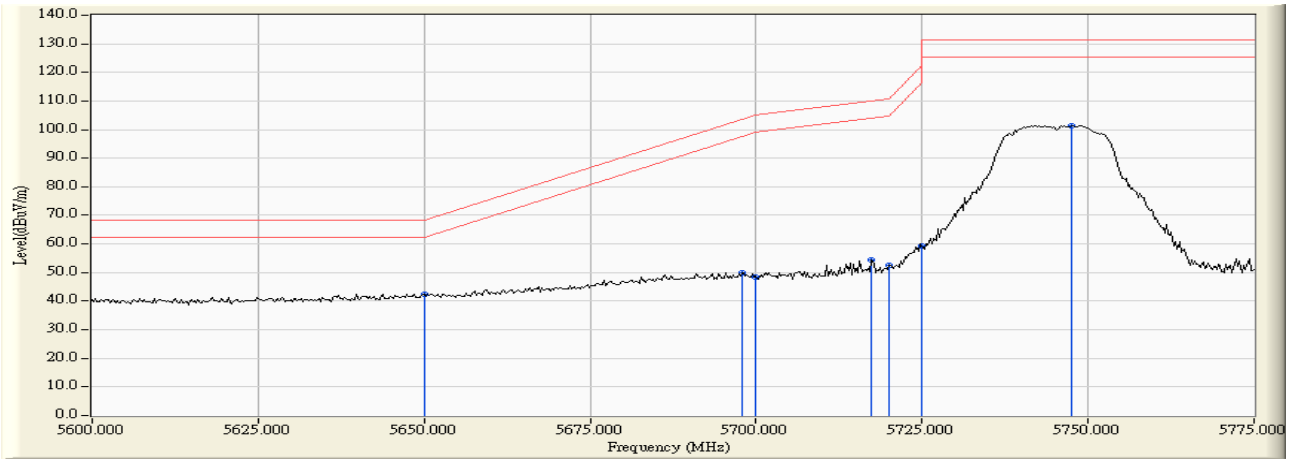
± 3.8 dB below 1GHz

± 3.9 dB above 1GHz

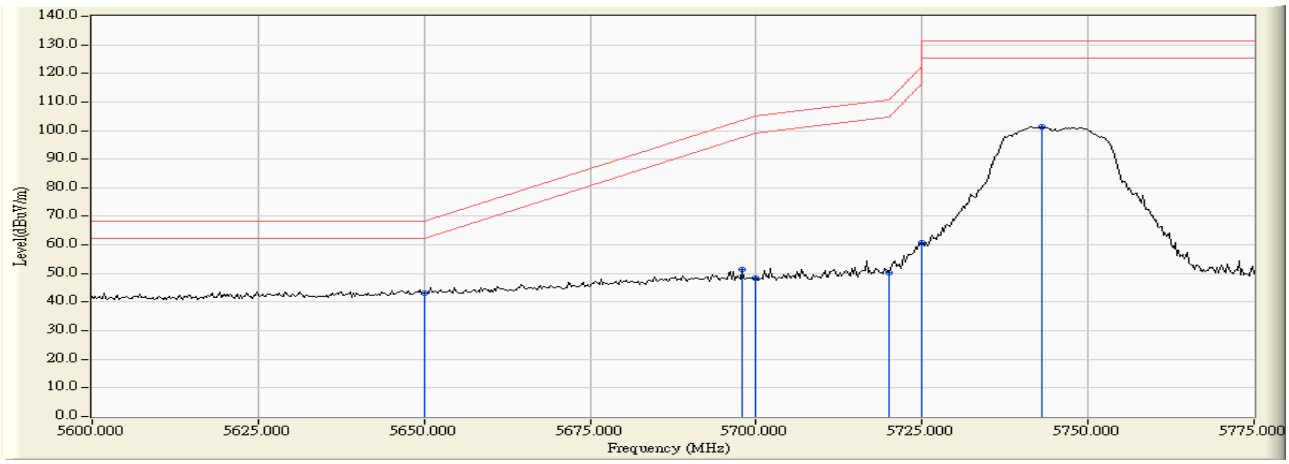
6.6. Test Result of Band Edge

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps)-Channel 149

RF Radiated Measurement:



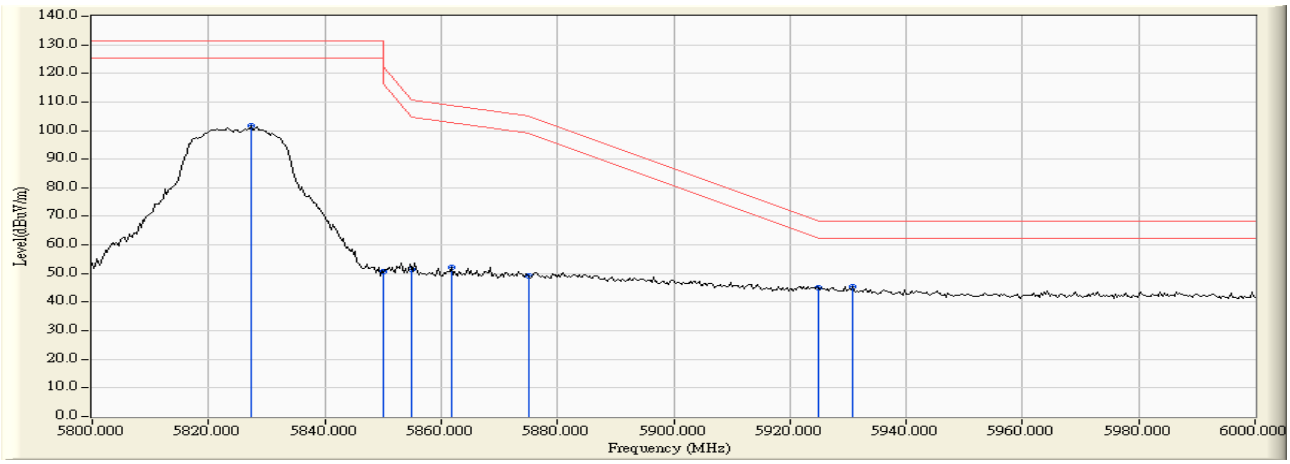
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5650.000	4.369	38.052	42.422	-25.798	68.220	Pass
Horizontal	5697.899	4.621	45.380	50.001	-53.645	103.646	Pass
Horizontal	5700.000	4.627	43.970	48.597	-56.603	105.200	Pass
Horizontal	5717.428	4.653	49.625	54.277	-55.803	110.080	Pass
Horizontal	5720.000	4.653	47.940	52.593	-58.207	110.800	Pass
Horizontal	5725.000	4.654	54.674	59.328	-62.872	122.200	Pass
Horizontal	5747.609	4.657	96.806	101.463	-29.737	131.200	Pass



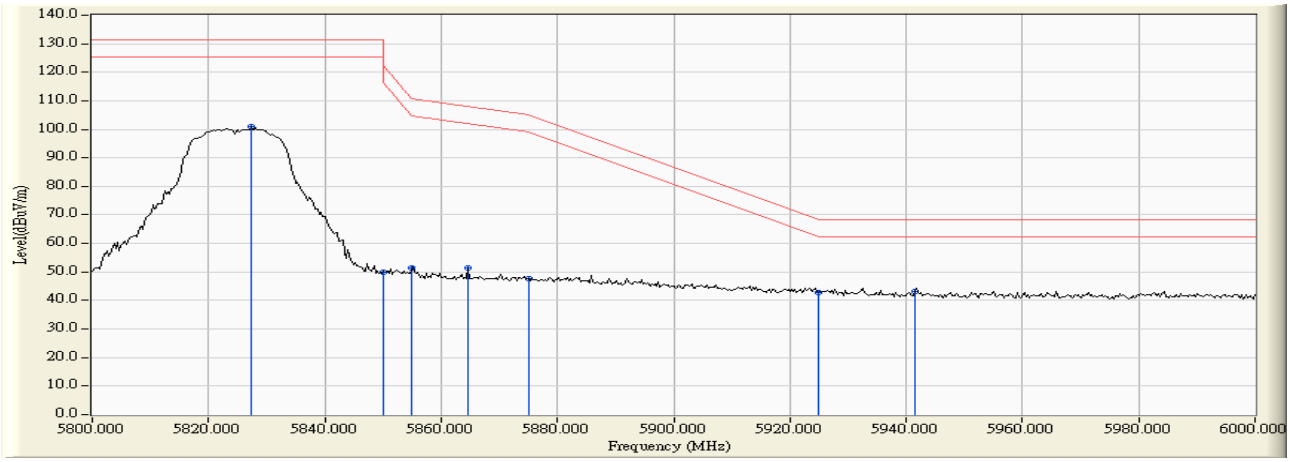
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5650.000	5.844	37.375	43.220	-25.000	68.220	Pass
Vertical	5697.899	5.980	45.343	51.323	-52.323	103.646	Pass
Vertical	5700.000	5.983	42.595	48.577	-56.623	105.200	Pass
Vertical	5720.000	5.993	44.416	50.409	-60.391	110.800	Pass
Vertical	5725.000	5.992	54.824	60.817	-61.383	122.200	Pass
Vertical	5743.043	5.989	95.497	101.486	-29.714	131.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps)-Channel 165

RF Radiated Measurement:



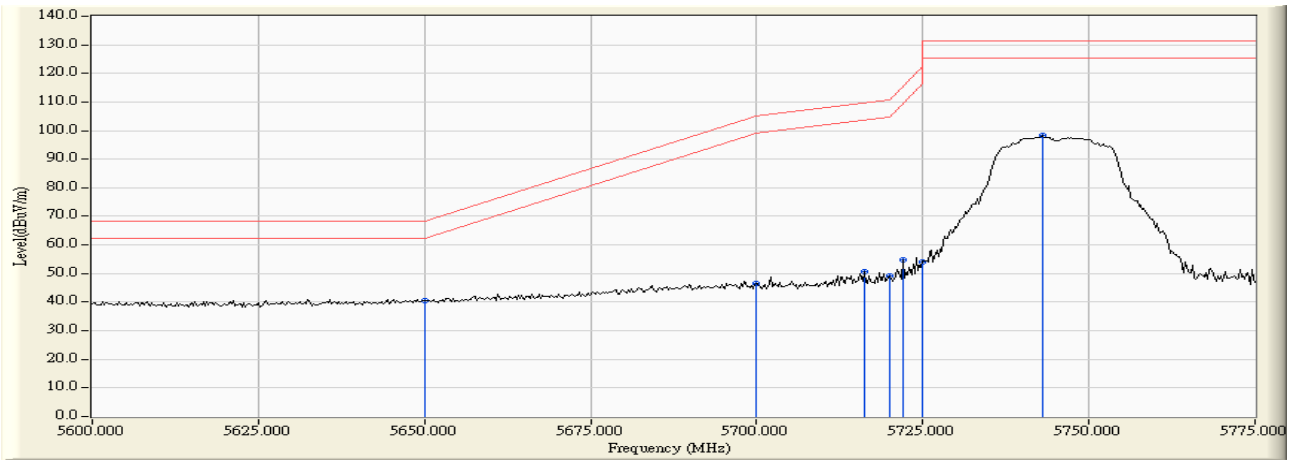
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5827.246	4.827	96.816	101.643	-29.557	131.200	Pass
Horizontal	5850.000	4.964	45.634	50.598	-71.602	122.200	Pass
Horizontal	5855.000	4.993	46.333	51.326	-59.474	110.800	Pass
Horizontal	5861.739	5.033	47.025	52.058	-56.855	108.913	Pass
Horizontal	5875.000	5.112	44.207	49.319	-55.881	105.200	Pass
Horizontal	5925.000	5.259	39.654	44.914	-23.286	68.200	Pass
Horizontal	5930.725	5.259	39.982	45.241	-22.959	68.200	Pass



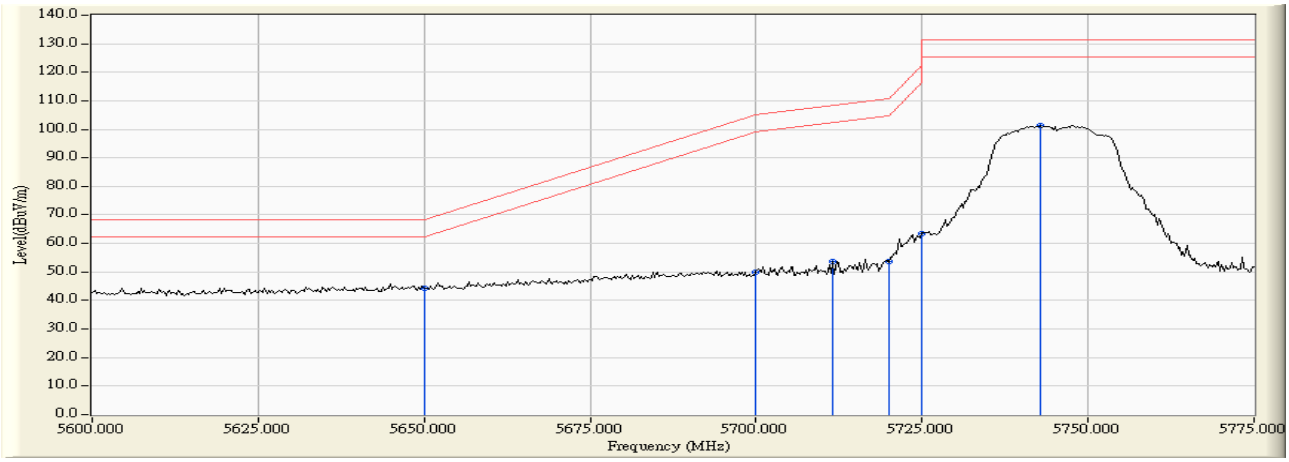
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5827.246	6.010	94.929	100.939	-30.261	131.200	Pass
Vertical	5850.000	6.037	43.741	49.778	-72.422	122.200	Pass
Vertical	5855.000	6.042	45.260	51.302	-59.498	110.800	Pass
Vertical	5864.638	6.052	45.366	51.418	-56.683	108.101	Pass
Vertical	5875.000	6.064	41.756	47.820	-57.380	105.200	Pass
Vertical	5925.000	6.102	36.671	42.773	-25.427	68.200	Pass
Vertical	5941.449	6.109	36.893	43.002	-25.198	68.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps) -Channel 149

RF Radiated Measurement:



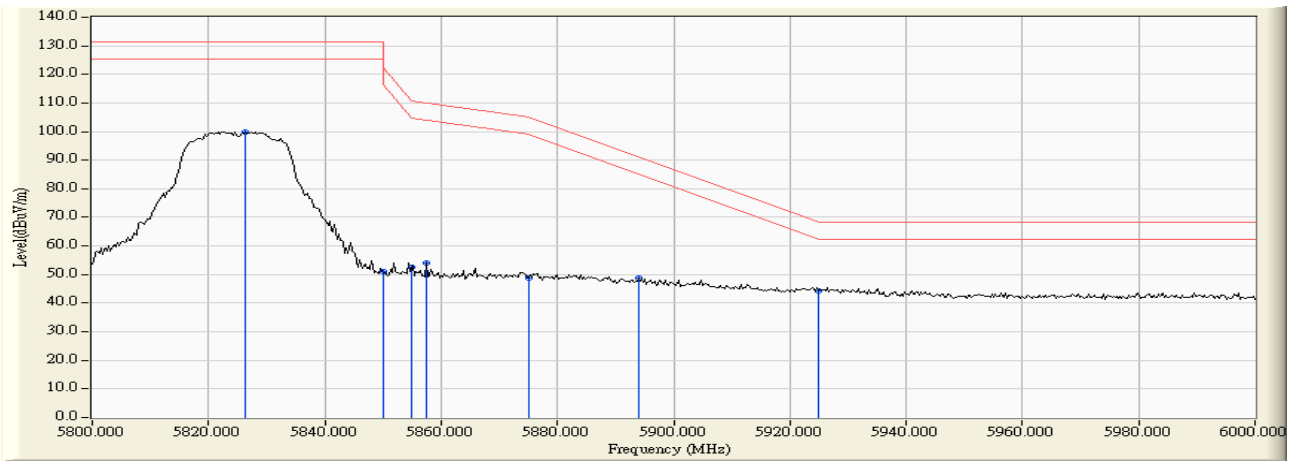
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5650.000	4.369	36.071	40.441	-27.779	68.220	Pass
Horizontal	5700.000	4.627	41.795	46.422	-58.778	105.200	Pass
Horizontal	5716.159	4.653	46.028	50.680	-59.045	109.725	Pass
Horizontal	5720.000	4.653	44.371	49.024	-61.776	110.800	Pass
Horizontal	5721.993	4.653	49.988	54.642	-60.702	115.344	Pass
Horizontal	5725.000	4.654	49.565	54.219	-67.981	122.200	Pass
Horizontal	5743.043	4.656	93.781	98.437	-32.763	131.200	Pass



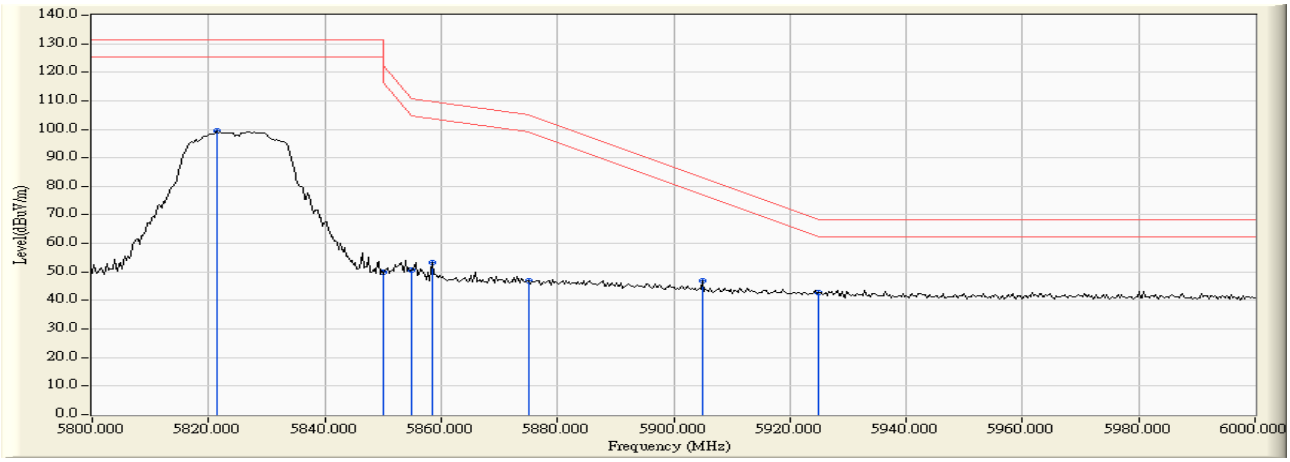
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5650.000	5.844	38.475	44.320	-23.900	68.220	Pass
Vertical	5700.000	5.983	44.124	50.106	-55.094	105.200	Pass
Vertical	5711.594	5.995	47.790	53.784	-54.662	108.446	Pass
Vertical	5720.000	5.993	47.576	53.569	-57.231	110.800	Pass
Vertical	5725.000	5.992	57.569	63.562	-58.638	122.200	Pass
Vertical	5742.790	5.990	95.194	101.183	-30.017	131.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps) -Channel 165

RF Radiated Measurement:



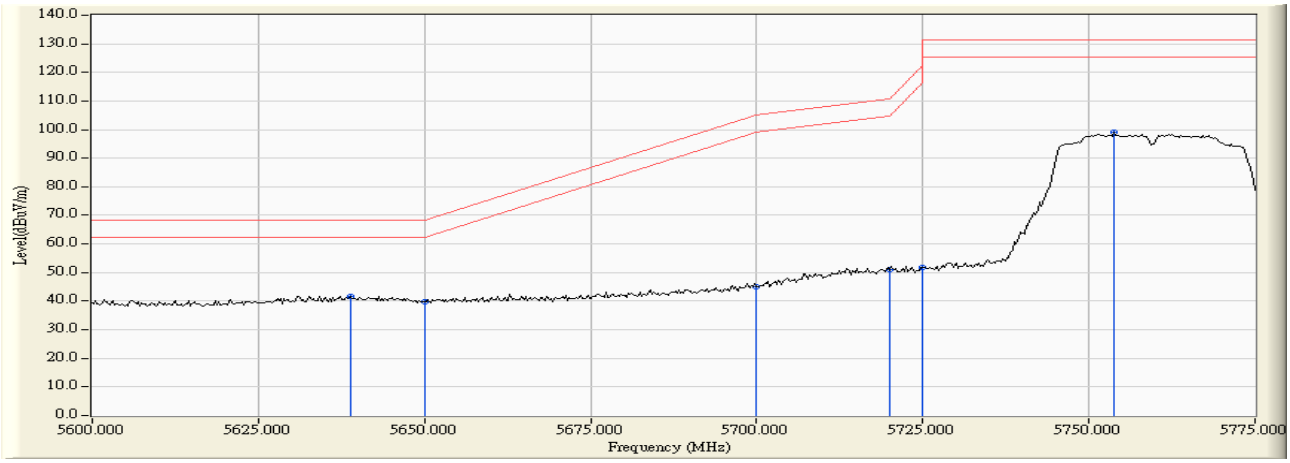
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5826.377	4.823	95.194	100.016	-31.184	131.200	Pass
Horizontal	5850.000	4.964	45.919	50.883	-71.317	122.200	Pass
Horizontal	5855.000	4.993	47.701	52.694	-58.106	110.800	Pass
Horizontal	5857.391	5.007	49.075	54.082	-56.049	110.131	Pass
Horizontal	5875.000	5.112	43.610	48.722	-56.478	105.200	Pass
Horizontal	5893.913	5.228	43.683	48.910	-42.294	91.204	Pass
Horizontal	5925.000	5.259	39.200	44.460	-23.740	68.200	Pass



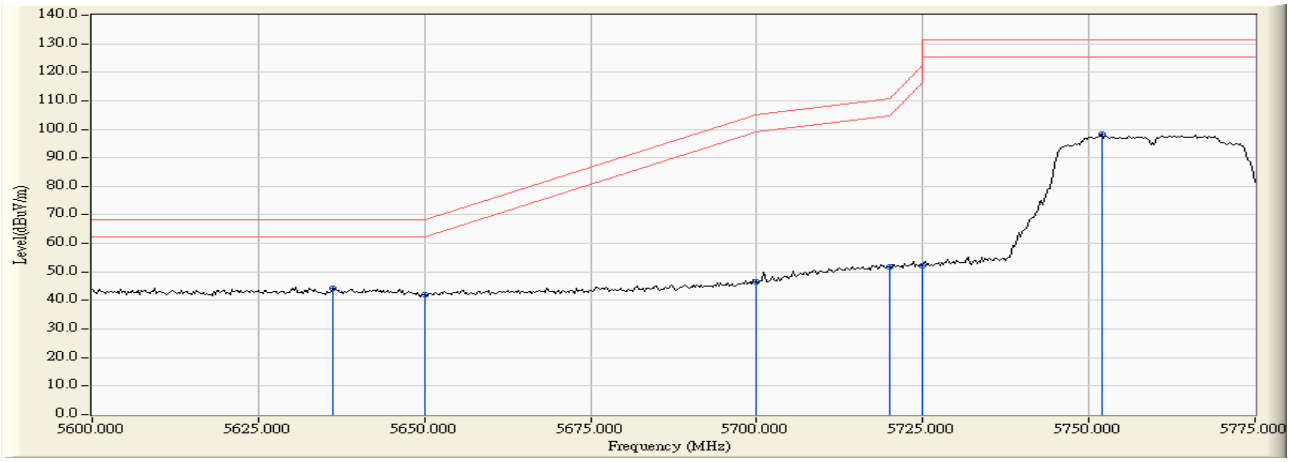
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5821.449	6.003	93.290	99.293	-31.907	131.200	Pass
Vertical	5850.000	6.037	43.696	49.733	-72.467	122.200	Pass
Vertical	5855.000	6.042	44.546	50.588	-60.212	110.800	Pass
Vertical	5858.551	6.046	47.368	53.414	-56.392	109.806	Pass
Vertical	5875.000	6.064	40.718	46.782	-58.418	105.200	Pass
Vertical	5904.928	6.095	40.893	46.987	-36.066	83.053	Pass
Vertical	5925.000	6.102	36.657	42.759	-25.441	68.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW-15Mbps) -Channel 151

RF Radiated Measurement :



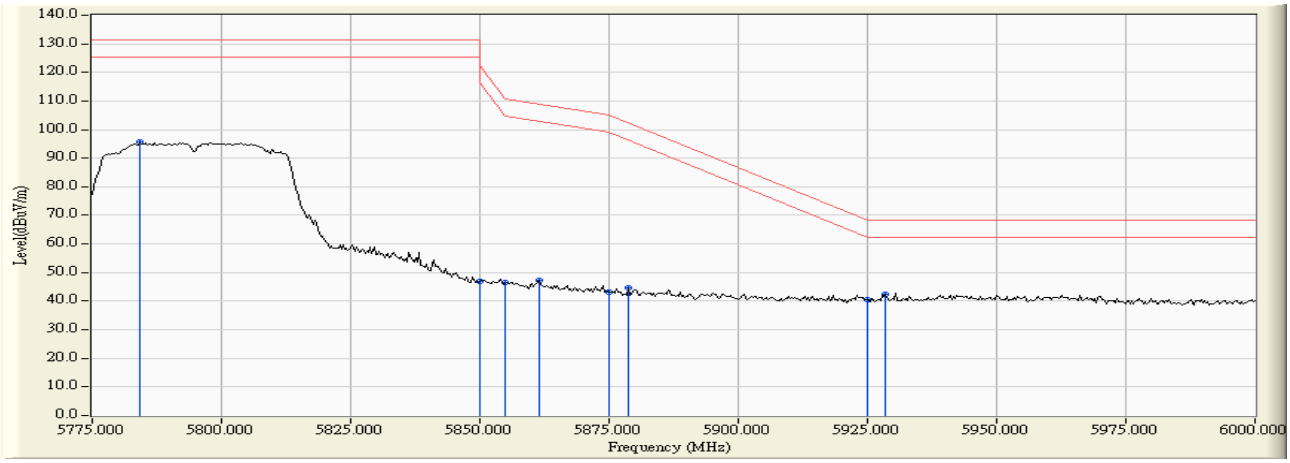
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5638.804	4.307	37.432	41.738	-26.482	68.220	Pass
Horizontal	5650.000	4.369	35.490	39.860	-28.360	68.220	Pass
Horizontal	5700.000	4.627	40.337	44.964	-60.236	105.200	Pass
Horizontal	5720.000	4.653	46.353	51.006	-59.794	110.800	Pass
Horizontal	5725.000	4.654	47.176	51.830	-70.370	122.200	Pass
Horizontal	5753.696	4.658	94.313	98.971	-32.229	131.200	Pass



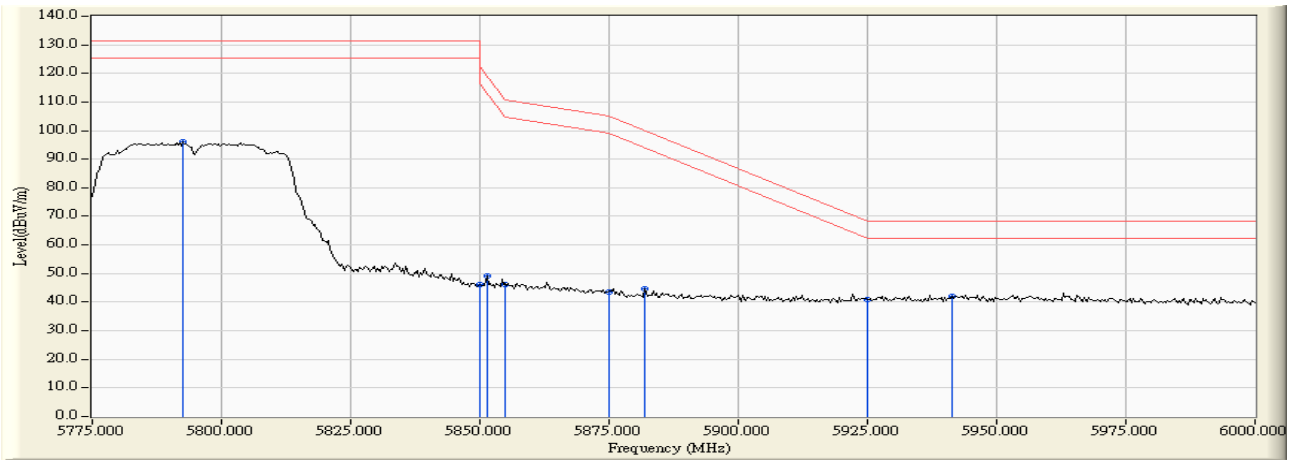
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5636.268	5.802	38.331	44.133	-24.087	68.220	Pass
Vertical	5650.000	5.844	36.297	42.142	-26.078	68.220	Pass
Vertical	5700.000	5.983	40.631	46.613	-58.587	105.200	Pass
Vertical	5720.000	5.993	45.856	51.849	-58.951	110.800	Pass
Vertical	5725.000	5.992	46.235	52.228	-69.972	122.200	Pass
Vertical	5751.920	5.987	92.192	98.179	-33.021	131.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW-15Mbps) -Channel 159

RF Radiated Measurement:



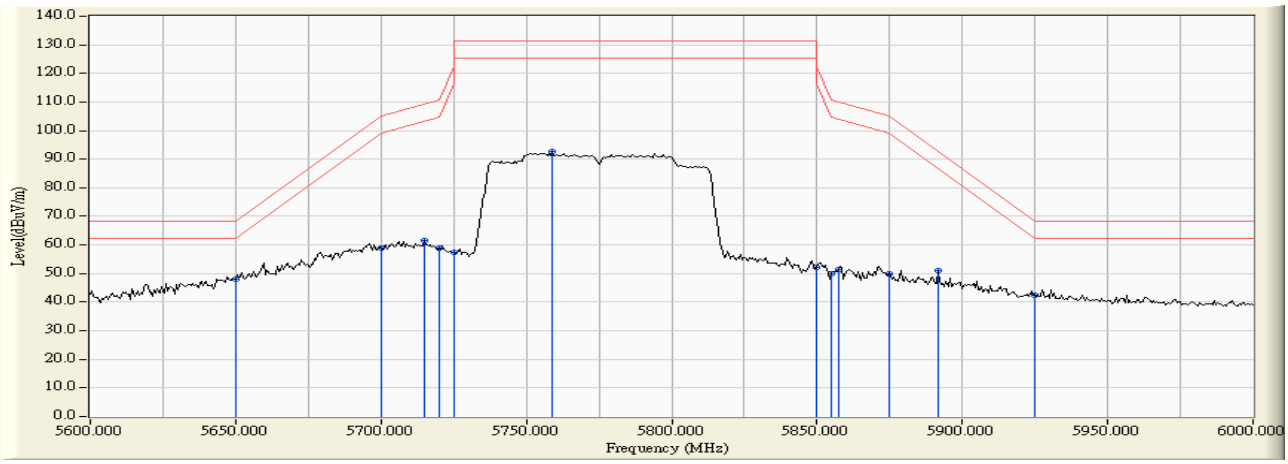
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5784.130	4.662	91.096	95.758	-35.442	131.200	Pass
Horizontal	5850.000	4.964	42.067	47.031	-75.169	122.200	Pass
Horizontal	5855.000	4.993	41.363	46.356	-64.444	110.800	Pass
Horizontal	5861.413	5.031	42.080	47.111	-61.893	109.004	Pass
Horizontal	5875.000	5.112	38.217	43.329	-61.871	105.200	Pass
Horizontal	5878.696	5.133	39.442	44.576	-57.889	102.465	Pass
Horizontal	5925.000	5.259	35.205	40.465	-27.735	68.200	Pass
Horizontal	5928.587	5.259	37.155	42.414	-25.786	68.200	Pass



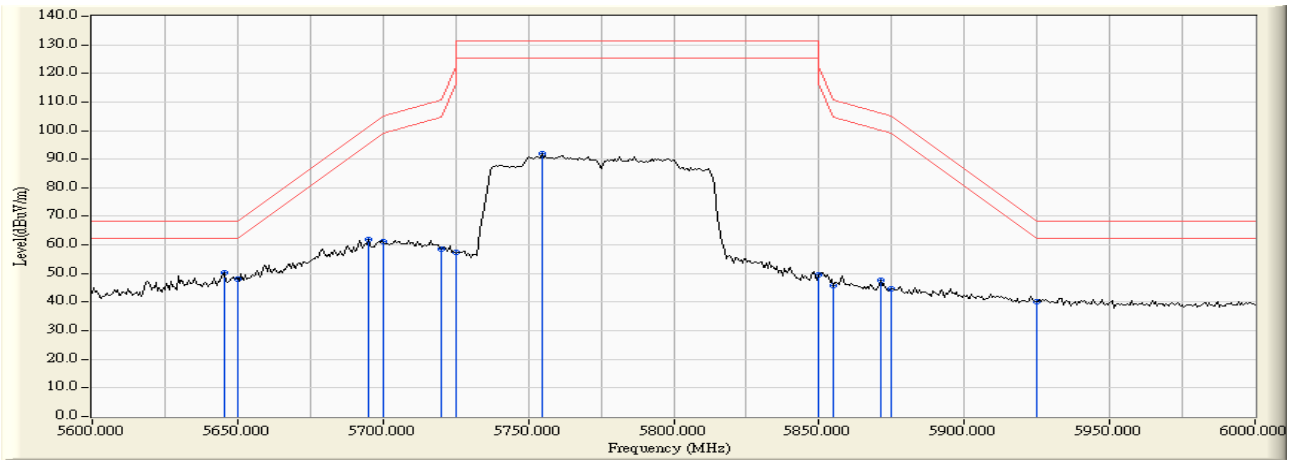
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5792.609	5.979	90.011	95.990	-35.210	131.200	Pass
Vertical	5850.000	6.037	40.207	46.244	-75.956	122.200	Pass
Vertical	5851.304	6.038	43.189	49.227	-70.000	119.227	Pass
Vertical	5855.000	6.042	40.112	46.154	-64.646	110.800	Pass
Vertical	5875.000	6.064	37.650	43.714	-61.486	105.200	Pass
Vertical	5881.957	6.072	38.730	44.803	-55.249	100.052	Pass
Vertical	5925.000	6.102	34.807	40.909	-27.291	68.200	Pass
Vertical	5941.304	6.109	35.919	42.028	-26.172	68.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps)-Channel 155

RF Radiated Measurement:



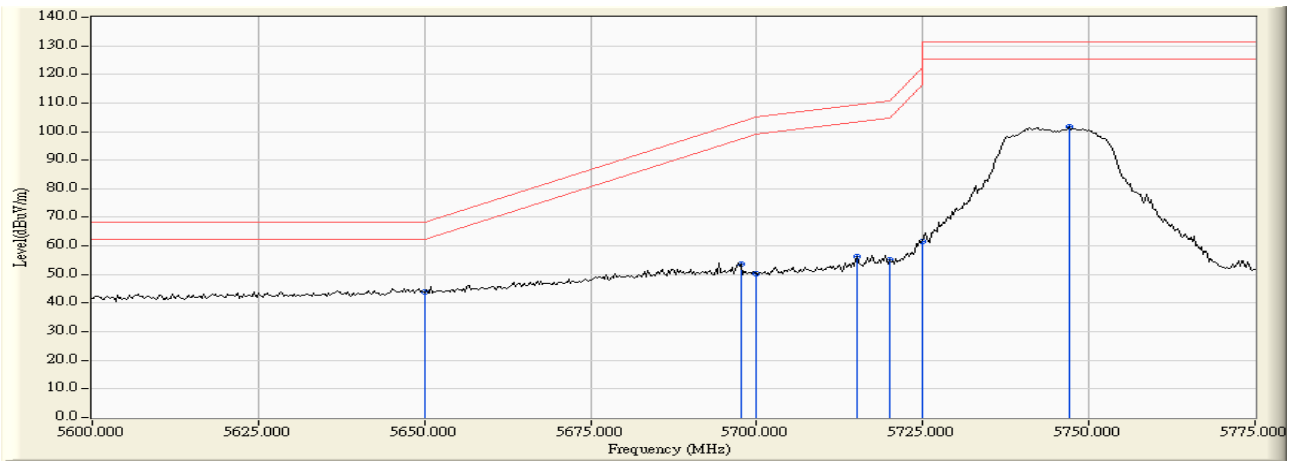
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5650.000	4.369	43.822	48.192	-20.028	68.220	Pass
Horizontal	5700.000	4.627	54.202	58.829	-46.371	105.200	Pass
Horizontal	5714.783	4.651	56.902	61.554	-47.785	109.339	Pass
Horizontal	5720.000	4.653	54.386	59.039	-51.761	110.800	Pass
Horizontal	5725.000	4.654	52.804	57.458	-64.742	122.200	Pass
Horizontal	5758.841	4.659	87.891	92.550	-38.650	131.200	Pass
Horizontal	5850.000	4.964	47.239	52.203	-69.997	122.200	Pass
Horizontal	5855.000	4.993	44.956	49.949	-60.851	110.800	Pass
Horizontal	5857.391	5.007	46.485	51.492	-58.639	110.131	Pass
Horizontal	5875.000	5.112	44.955	50.067	-55.133	105.200	Pass
Horizontal	5891.594	5.213	45.955	51.168	-41.752	92.920	Pass
Horizontal	5925.000	5.259	37.034	42.294	-25.906	68.200	Pass



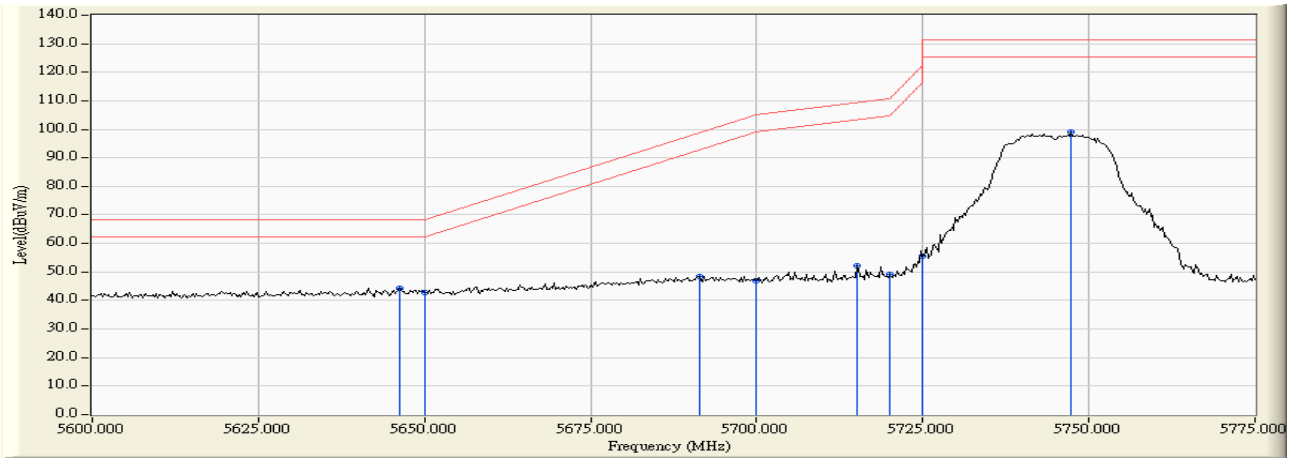
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5645.217	5.830	44.293	50.123	-18.097	68.220	Pass
Vertical	5650.000	5.844	42.153	47.998	-20.222	68.220	Pass
Vertical	5695.072	5.976	55.938	61.914	-39.641	101.555	Pass
Vertical	5700.000	5.983	55.262	61.244	-43.956	105.200	Pass
Vertical	5720.000	5.993	52.382	58.375	-52.425	110.800	Pass
Vertical	5725.000	5.992	51.335	57.328	-64.872	122.200	Pass
Vertical	5754.783	5.987	85.949	91.936	-39.264	131.200	Pass
Vertical	5850.000	6.037	43.371	49.408	-72.792	122.200	Pass
Vertical	5855.000	6.042	39.660	45.702	-65.098	110.800	Pass
Vertical	5871.304	6.060	41.466	47.526	-58.709	106.235	Pass
Vertical	5875.000	6.064	38.544	44.608	-60.592	105.200	Pass
Vertical	5925.000	6.102	34.091	40.193	-28.007	68.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps)-Channel 149

RF Radiated Measurement:



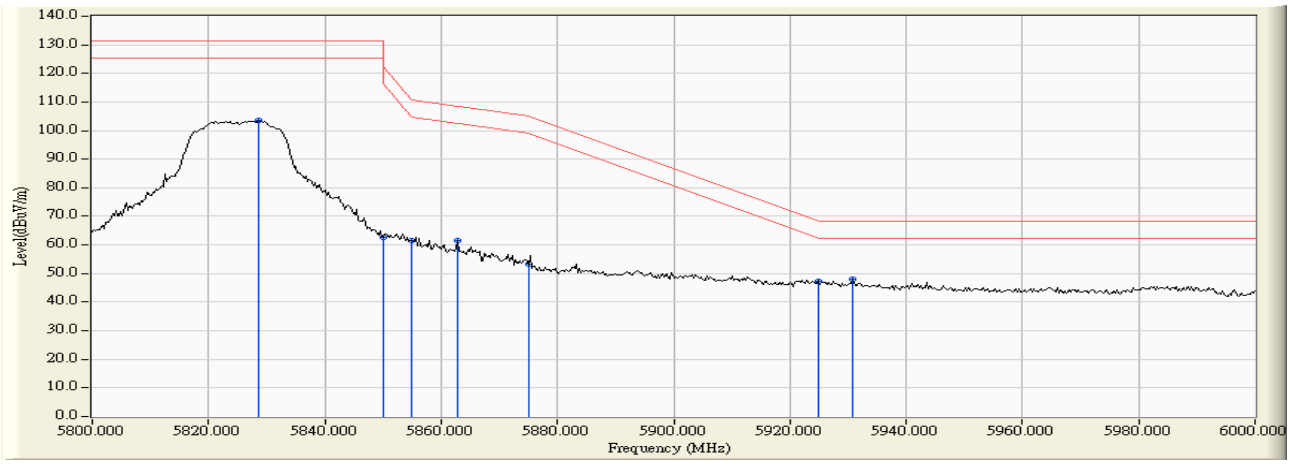
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5650.000	4.369	39.378	43.748	-24.472	68.220	Pass
Horizontal	5697.645	4.620	49.003	53.624	-49.834	103.458	Pass
Horizontal	5700.000	4.627	45.765	50.392	-54.808	105.200	Pass
Horizontal	5715.145	4.652	51.491	56.143	-53.298	109.441	Pass
Horizontal	5720.000	4.653	50.356	55.009	-55.791	110.800	Pass
Horizontal	5725.000	4.654	57.046	61.700	-60.500	122.200	Pass
Horizontal	5747.101	4.657	96.951	101.608	-29.592	131.200	Pass



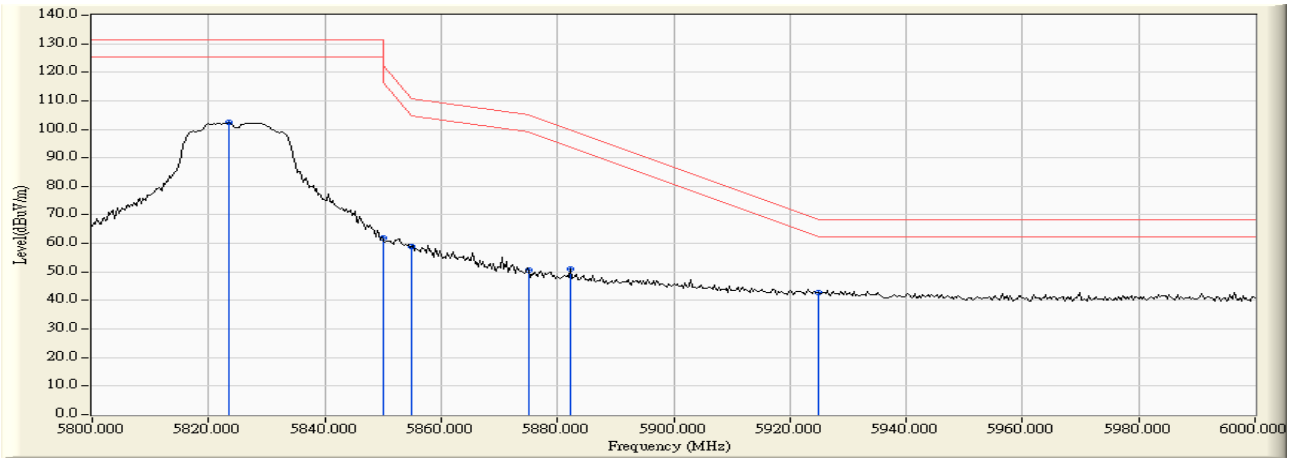
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5646.159	5.833	38.364	44.197	-24.023	68.220	Pass
Vertical	5650.000	5.844	37.017	42.862	-25.358	68.220	Pass
Vertical	5691.304	5.969	42.322	48.292	-50.476	98.768	Pass
Vertical	5700.000	5.983	41.025	47.007	-58.193	105.200	Pass
Vertical	5715.145	5.994	46.317	52.311	-57.130	109.441	Pass
Vertical	5720.000	5.993	43.074	49.067	-61.733	110.800	Pass
Vertical	5725.000	5.992	49.404	55.397	-66.803	122.200	Pass
Vertical	5747.355	5.988	93.196	99.184	-32.016	131.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps)-Channel 165

RF Radiated Measurement:



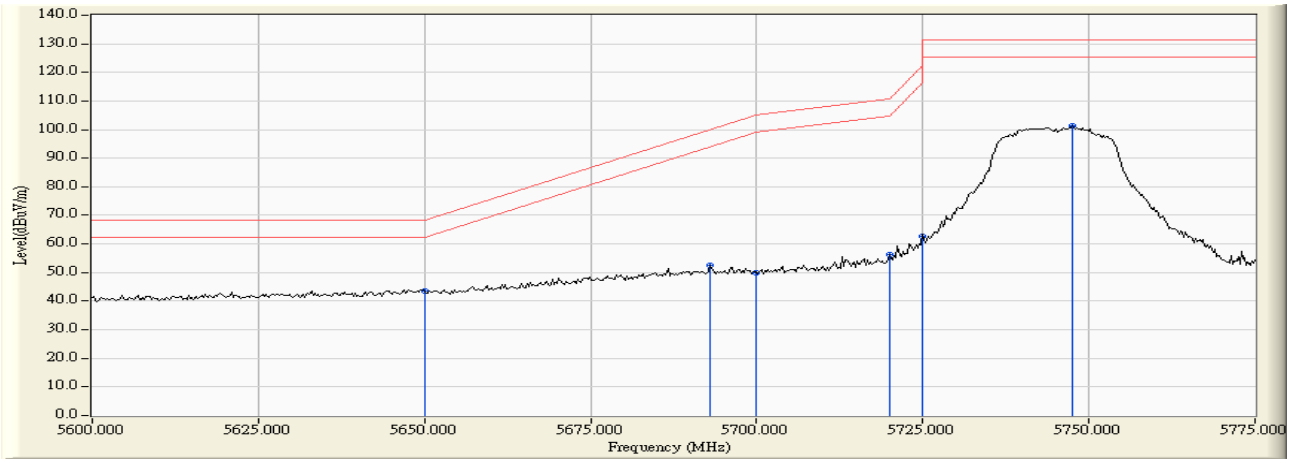
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5828.696	4.836	98.687	103.523	-27.677	131.200	Pass
Horizontal	5850.000	4.964	57.820	62.784	-59.416	122.200	Pass
Horizontal	5855.000	4.993	56.383	61.376	-49.424	110.800	Pass
Horizontal	5862.899	5.040	56.432	61.472	-47.116	108.588	Pass
Horizontal	5875.000	5.112	48.200	53.312	-51.888	105.200	Pass
Horizontal	5925.000	5.259	42.048	47.308	-20.892	68.200	Pass
Horizontal	5930.725	5.259	42.680	47.939	-20.261	68.200	Pass



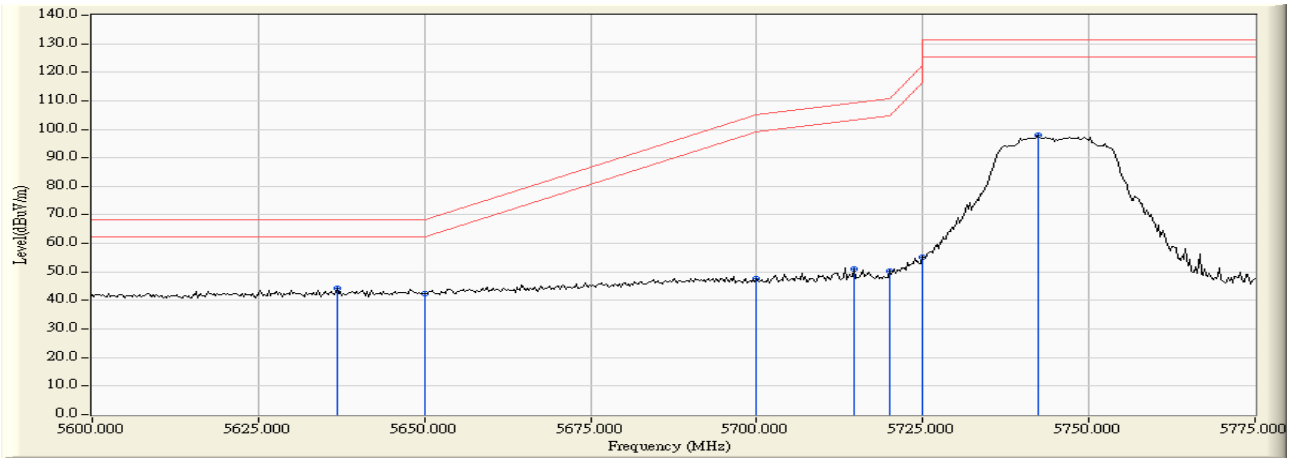
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5823.478	6.005	96.352	102.358	-28.842	131.200	Pass
Vertical	5850.000	6.037	55.813	61.850	-60.350	122.200	Pass
Vertical	5855.000	6.042	52.986	59.028	-51.772	110.800	Pass
Vertical	5875.000	6.064	44.787	50.851	-54.349	105.200	Pass
Vertical	5882.319	6.074	44.993	51.066	-48.718	99.784	Pass
Vertical	5925.000	6.102	36.587	42.689	-25.511	68.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps) -Channel 149

RF Radiated Measurement:



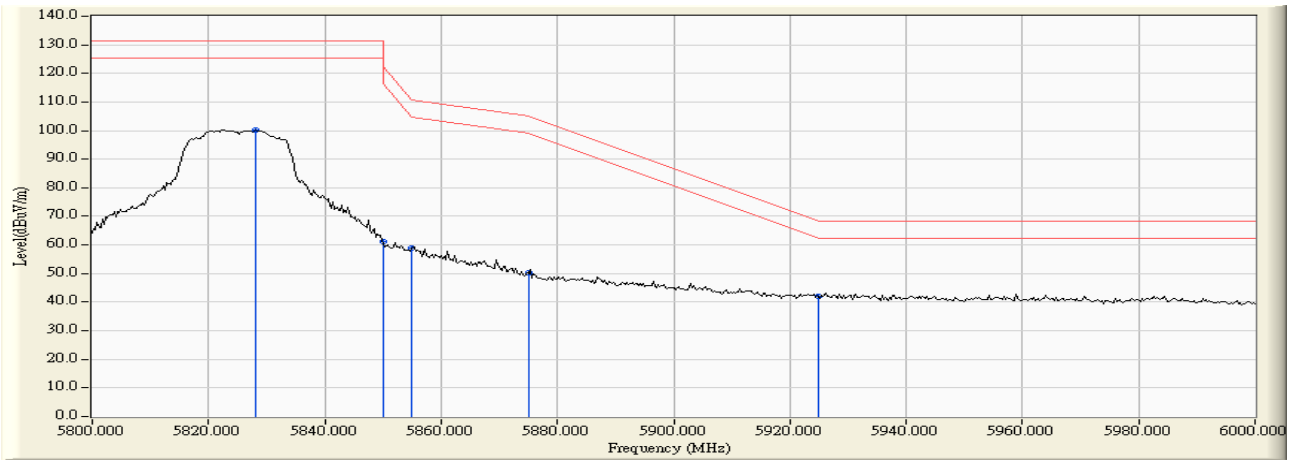
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5650.000	4.369	39.201	43.571	-24.649	68.220	Pass
Horizontal	5693.080	4.609	47.817	52.425	-47.657	100.082	Pass
Horizontal	5700.000	4.627	45.340	49.967	-55.233	105.200	Pass
Horizontal	5720.000	4.653	51.551	56.204	-54.596	110.800	Pass
Horizontal	5725.000	4.654	58.162	62.816	-59.384	122.200	Pass
Horizontal	5747.609	4.657	96.799	101.456	-29.744	131.200	Pass



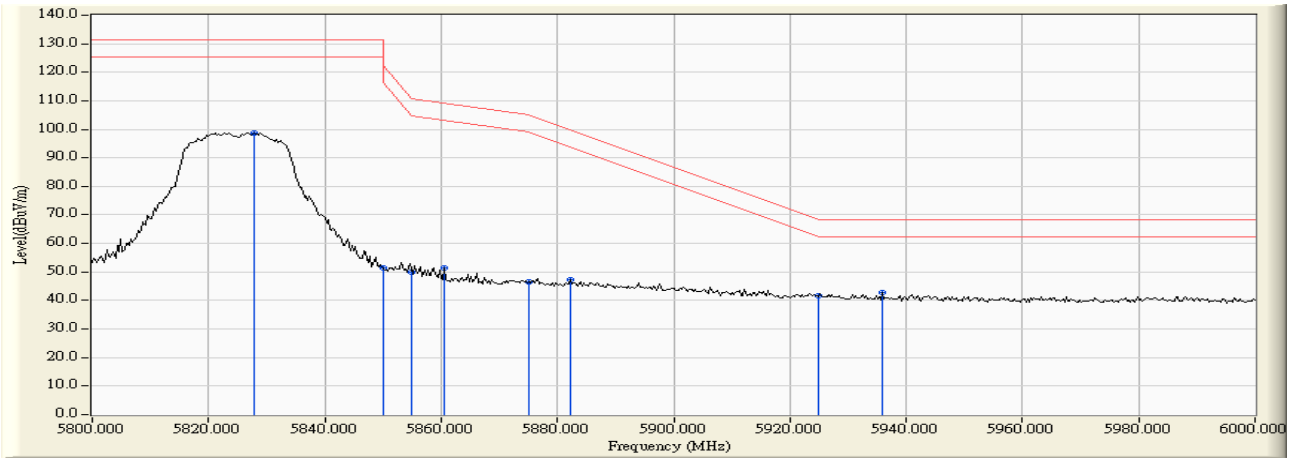
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5636.775	5.804	38.421	44.225	-23.995	68.220	Pass
Vertical	5650.000	5.844	36.593	42.438	-25.782	68.220	Pass
Vertical	5700.000	5.983	41.645	47.627	-57.573	105.200	Pass
Vertical	5714.638	5.994	45.113	51.107	-58.192	109.299	Pass
Vertical	5720.000	5.993	44.286	50.279	-60.521	110.800	Pass
Vertical	5725.000	5.992	49.368	55.361	-66.839	122.200	Pass
Vertical	5742.283	5.989	92.049	98.039	-33.161	131.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps) -Channel 165

RF Radiated Measurement:



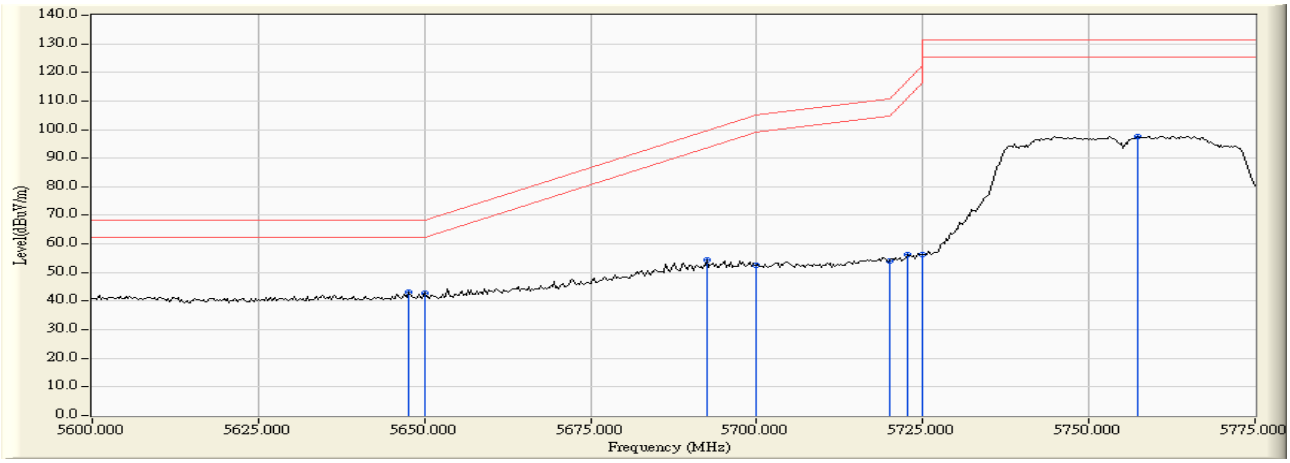
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5828.116	4.833	95.411	100.243	-30.957	131.200	Pass
Horizontal	5850.000	4.964	56.147	61.111	-61.089	122.200	Pass
Horizontal	5855.000	4.993	54.051	59.044	-51.756	110.800	Pass
Horizontal	5875.000	5.112	45.002	50.114	-55.086	105.200	Pass
Horizontal	5925.000	5.259	36.703	41.963	-26.237	68.200	Pass



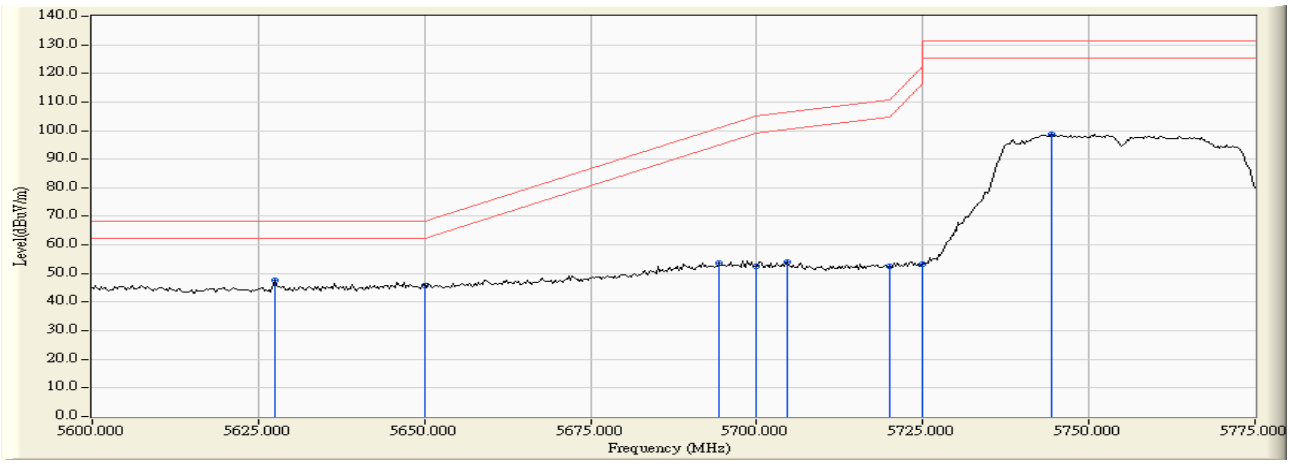
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5827.826	6.010	92.760	98.770	-32.430	131.200	Pass
Vertical	5850.000	6.037	45.474	51.511	-70.689	122.200	Pass
Vertical	5855.000	6.042	43.906	49.948	-60.852	110.800	Pass
Vertical	5860.580	6.048	45.383	51.431	-57.807	109.238	Pass
Vertical	5875.000	6.064	40.307	46.371	-58.829	105.200	Pass
Vertical	5882.319	6.074	41.033	47.106	-52.678	99.784	Pass
Vertical	5925.000	6.102	35.484	41.586	-26.614	68.200	Pass
Vertical	5935.942	6.107	36.525	42.632	-25.568	68.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps) -Channel 151

RF Radiated Measurement :



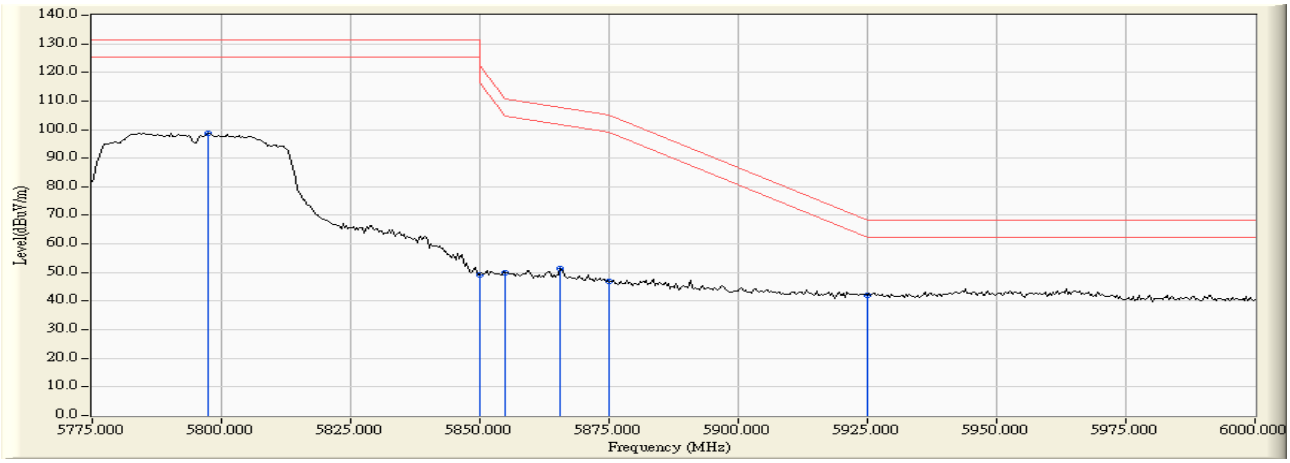
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5647.681	4.358	38.777	43.134	-25.086	68.220	Pass
Horizontal	5650.000	4.369	38.465	42.835	-25.385	68.220	Pass
Horizontal	5692.572	4.607	49.905	54.512	-45.194	99.706	Pass
Horizontal	5700.000	4.627	48.032	52.659	-52.541	105.200	Pass
Horizontal	5720.000	4.653	49.483	54.136	-56.664	110.800	Pass
Horizontal	5722.754	4.654	51.766	56.420	-60.659	117.079	Pass
Horizontal	5725.000	4.654	51.565	56.219	-65.981	122.200	Pass
Horizontal	5757.246	4.659	94.062	98.721	-32.479	131.200	Pass



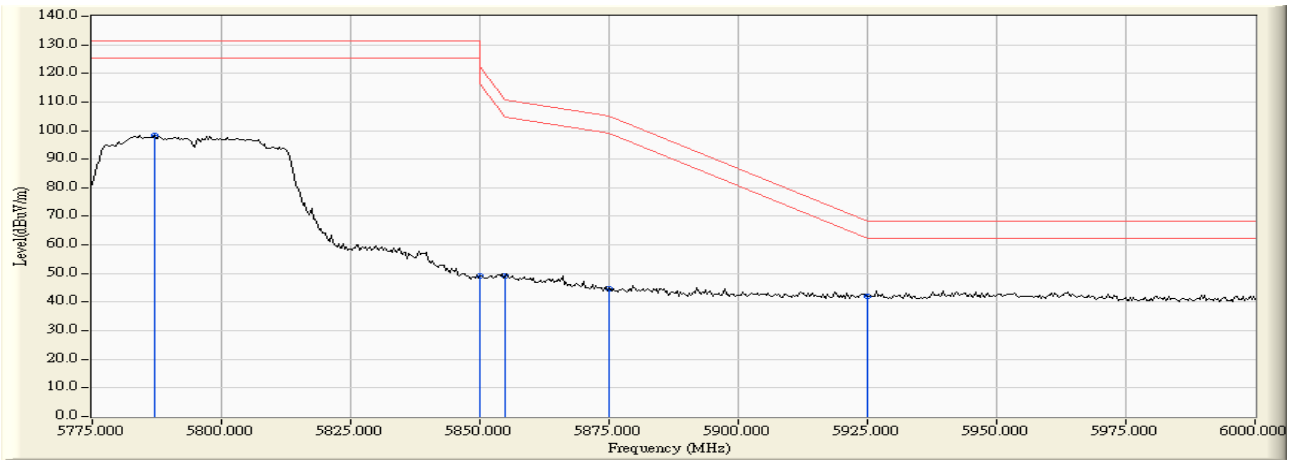
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5627.391	5.776	41.844	47.619	-20.601	68.220	Pass
Vertical	5650.000	5.844	40.068	45.913	-22.307	68.220	Pass
Vertical	5694.348	5.975	47.708	53.683	-47.337	101.020	Pass
Vertical	5700.000	5.983	46.611	52.593	-52.607	105.200	Pass
Vertical	5704.493	5.988	48.232	54.220	-52.238	106.458	Pass
Vertical	5720.000	5.993	46.426	52.419	-58.381	110.800	Pass
Vertical	5725.000	5.992	47.258	53.251	-68.949	122.200	Pass
Vertical	5744.312	5.989	92.679	98.668	-32.532	131.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps) -Channel 159

RF Radiated Measurement:



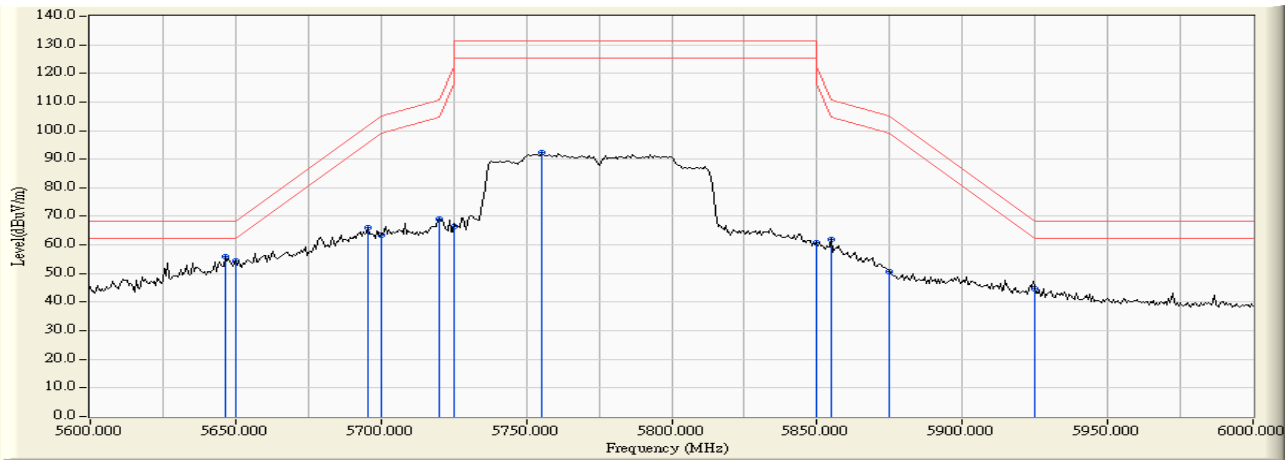
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5797.500	4.674	94.120	98.793	-32.407	131.200	Pass
Horizontal	5850.000	4.964	44.263	49.227	-72.973	122.200	Pass
Horizontal	5855.000	4.993	44.836	49.829	-60.971	110.800	Pass
Horizontal	5865.652	5.056	46.537	51.593	-56.224	107.817	Pass
Horizontal	5875.000	5.112	41.637	46.749	-58.451	105.200	Pass
Horizontal	5925.000	5.259	36.801	42.061	-26.139	68.200	Pass



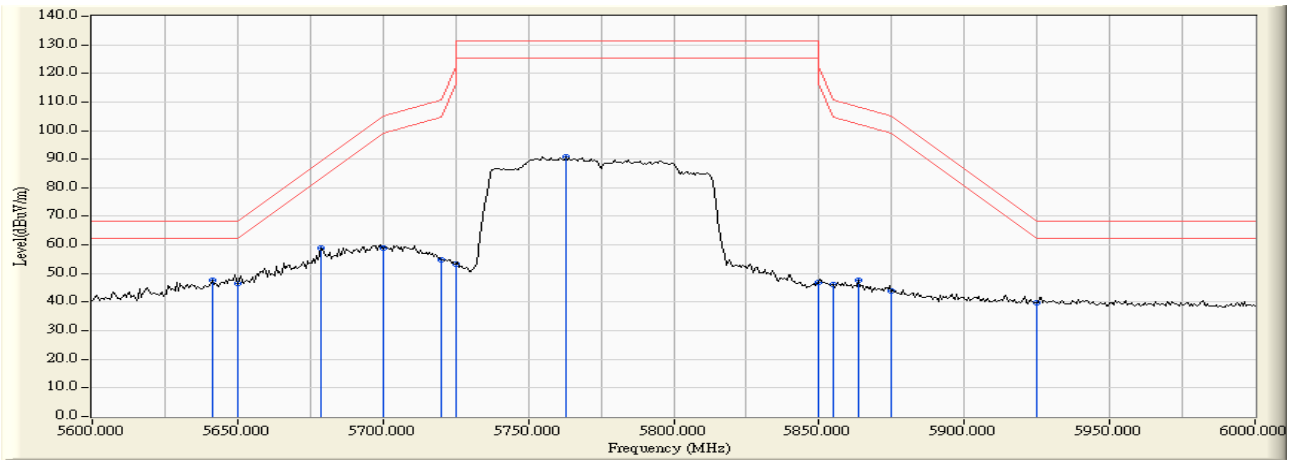
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5787.065	5.980	92.412	98.392	-32.808	131.200	Pass
Vertical	5850.000	6.037	43.215	49.252	-72.948	122.200	Pass
Vertical	5855.000	6.042	43.166	49.208	-61.592	110.800	Pass
Vertical	5875.000	6.064	38.666	44.730	-60.470	105.200	Pass
Vertical	5925.000	6.102	35.822	41.924	-26.276	68.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps)-Channel 155

RF Radiated Measurement:



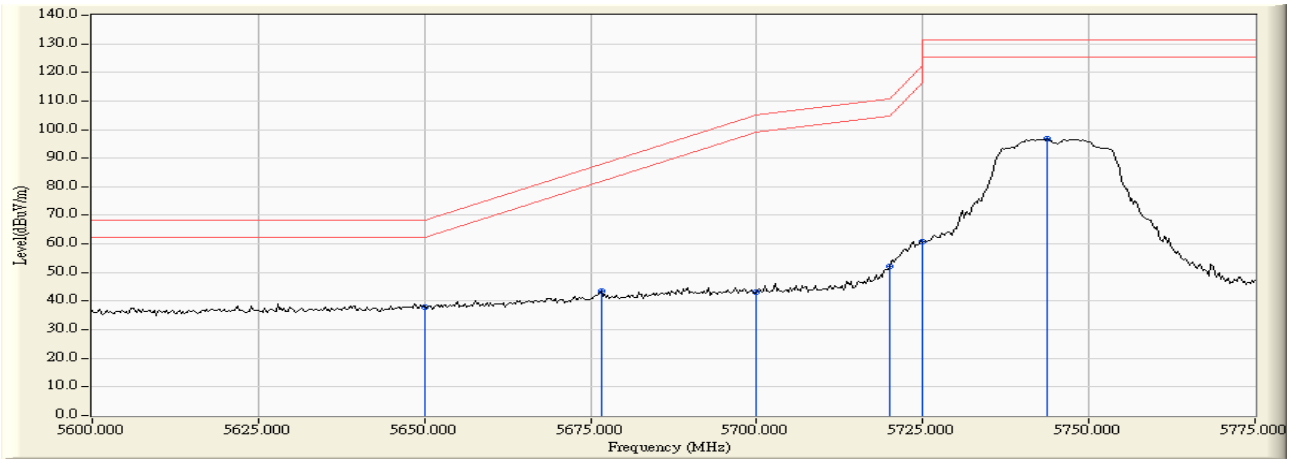
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5646.377	4.350	51.600	55.950	-12.270	68.220	Pass
Horizontal	5650.000	4.369	49.922	54.292	-13.928	68.220	Pass
Horizontal	5695.652	4.616	61.570	66.185	-35.799	101.984	Pass
Horizontal	5700.000	4.627	58.915	63.542	-41.658	105.200	Pass
Horizontal	5720.000	4.653	64.406	69.059	-41.741	110.800	Pass
Horizontal	5725.000	4.654	61.927	66.581	-55.619	122.200	Pass
Horizontal	5755.362	4.659	87.816	92.475	-38.725	131.200	Pass
Horizontal	5850.000	4.964	55.725	60.689	-61.511	122.200	Pass
Horizontal	5855.000	4.993	57.025	62.018	-48.782	110.800	Pass
Horizontal	5875.000	5.112	45.459	50.571	-54.629	105.200	Pass
Horizontal	5925.000	5.259	39.546	44.806	-23.394	68.200	Pass



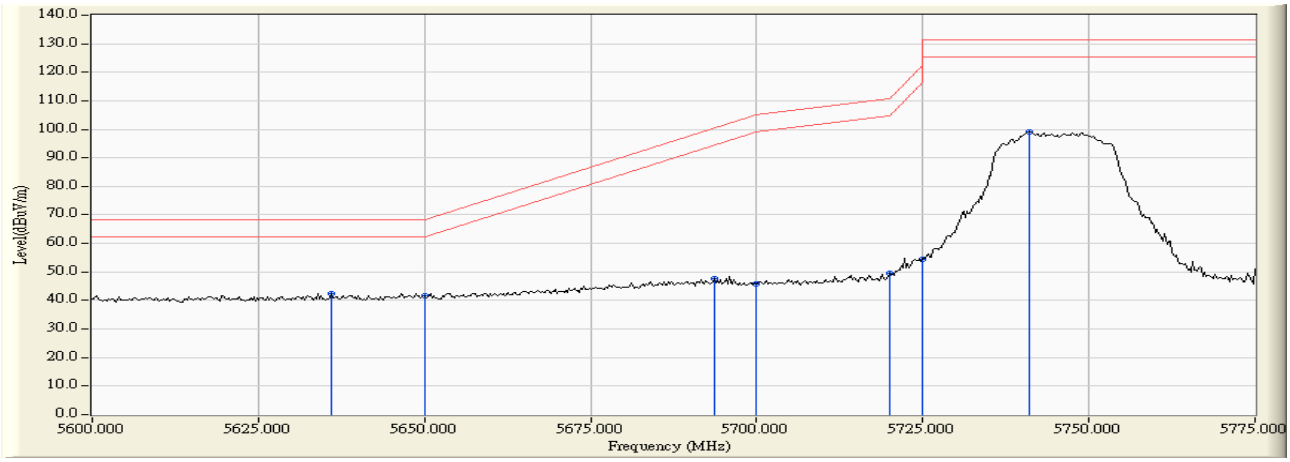
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5641.159	5.818	41.895	47.712	-20.508	68.220	Pass
Vertical	5650.000	5.844	40.866	46.711	-21.509	68.220	Pass
Vertical	5678.841	5.933	53.003	58.936	-30.615	89.551	Pass
Vertical	5700.000	5.983	52.792	58.774	-46.426	105.200	Pass
Vertical	5720.000	5.993	48.909	54.902	-55.898	110.800	Pass
Vertical	5725.000	5.992	47.414	53.407	-68.793	122.200	Pass
Vertical	5762.899	5.985	84.677	90.662	-40.538	131.200	Pass
Vertical	5850.000	6.037	40.915	46.952	-75.248	122.200	Pass
Vertical	5855.000	6.042	40.069	46.111	-64.689	110.800	Pass
Vertical	5863.768	6.051	41.712	47.763	-60.582	108.345	Pass
Vertical	5875.000	6.064	37.869	43.933	-61.267	105.200	Pass
Vertical	5925.000	6.102	33.714	39.816	-28.384	68.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps) -Channel 149

RF Radiated Measurement:



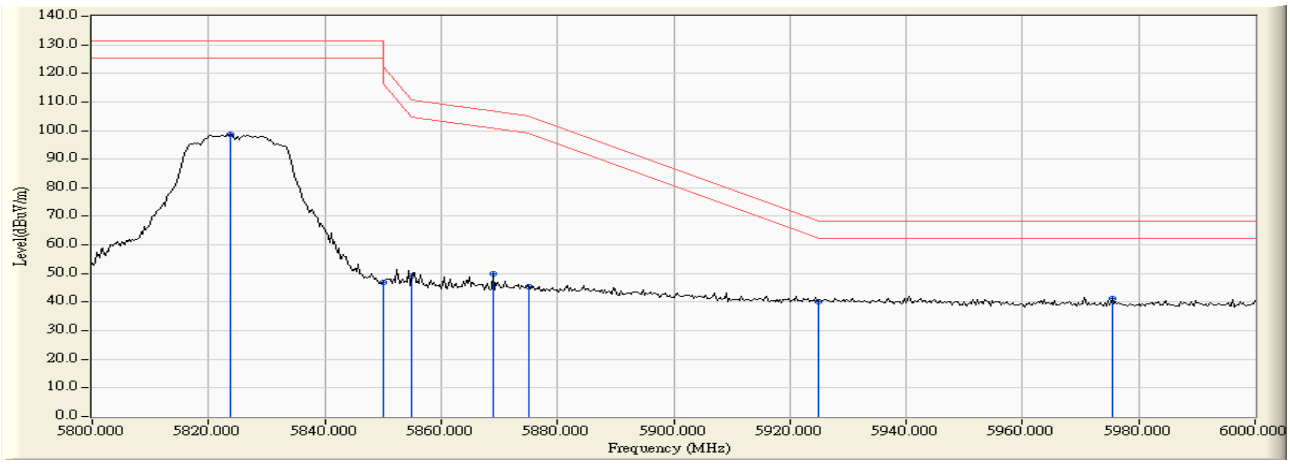
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5650.000	4.369	33.679	38.049	-30.171	68.220	Pass
Horizontal	5676.594	4.521	39.110	43.631	-44.258	87.889	Pass
Horizontal	5700.000	4.627	38.589	43.216	-61.984	105.200	Pass
Horizontal	5720.000	4.653	47.491	52.144	-58.656	110.800	Pass
Horizontal	5725.000	4.654	55.966	60.620	-61.580	122.200	Pass
Horizontal	5743.804	4.657	92.249	96.906	-34.294	131.200	Pass



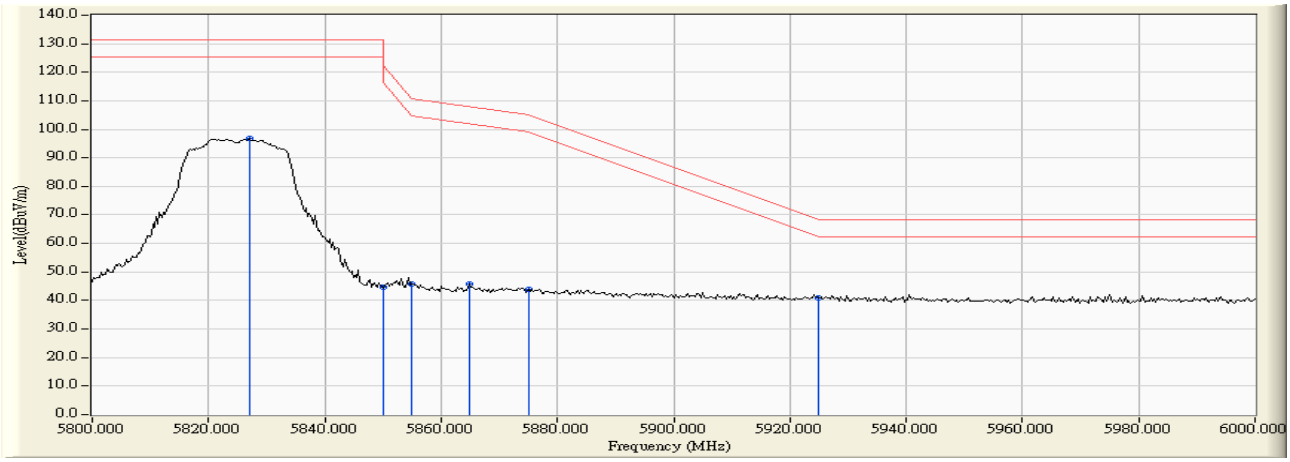
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5636.014	5.803	36.510	42.312	-25.908	68.220	Pass
Vertical	5650.000	5.844	35.680	41.525	-26.695	68.220	Pass
Vertical	5693.587	5.974	41.584	47.558	-52.899	100.457	Pass
Vertical	5700.000	5.983	39.929	45.911	-59.289	105.200	Pass
Vertical	5720.000	5.993	43.432	49.425	-61.375	110.800	Pass
Vertical	5725.000	5.992	48.510	54.503	-67.697	122.200	Pass
Vertical	5741.014	5.990	93.202	99.192	-32.008	131.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps) -Channel 165

RF Radiated Measurement:



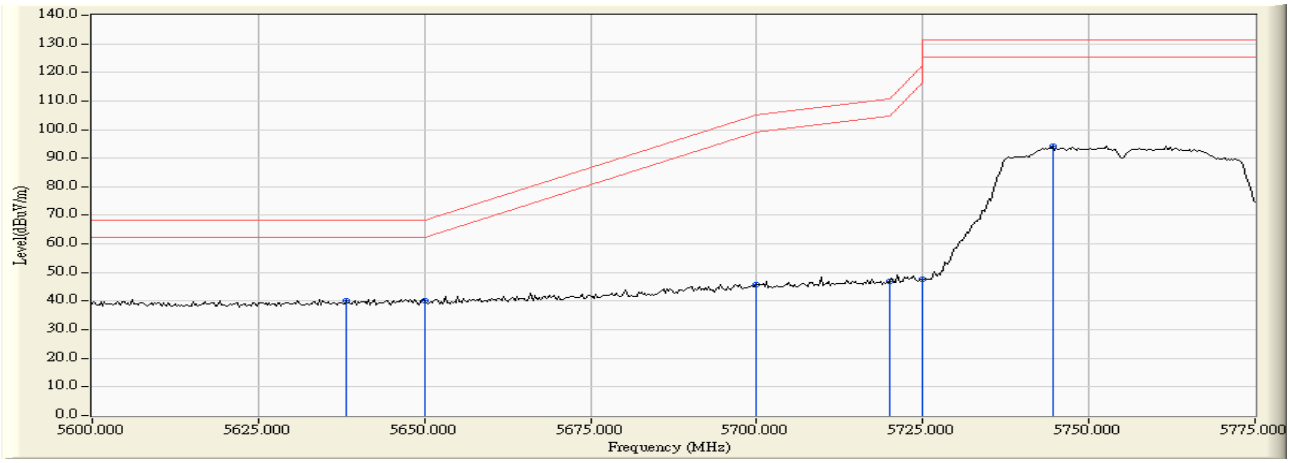
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5823.768	4.807	93.901	98.708	-32.492	131.200	Pass
Horizontal	5850.000	4.964	42.031	46.995	-75.205	122.200	Pass
Horizontal	5855.000	4.993	44.187	49.180	-61.620	110.800	Pass
Horizontal	5868.986	5.077	44.781	49.857	-57.027	106.884	Pass
Horizontal	5875.000	5.112	40.462	45.574	-59.626	105.200	Pass
Horizontal	5925.000	5.259	34.974	40.234	-27.966	68.200	Pass
Horizontal	5975.362	5.254	36.028	41.282	-26.918	68.200	Pass



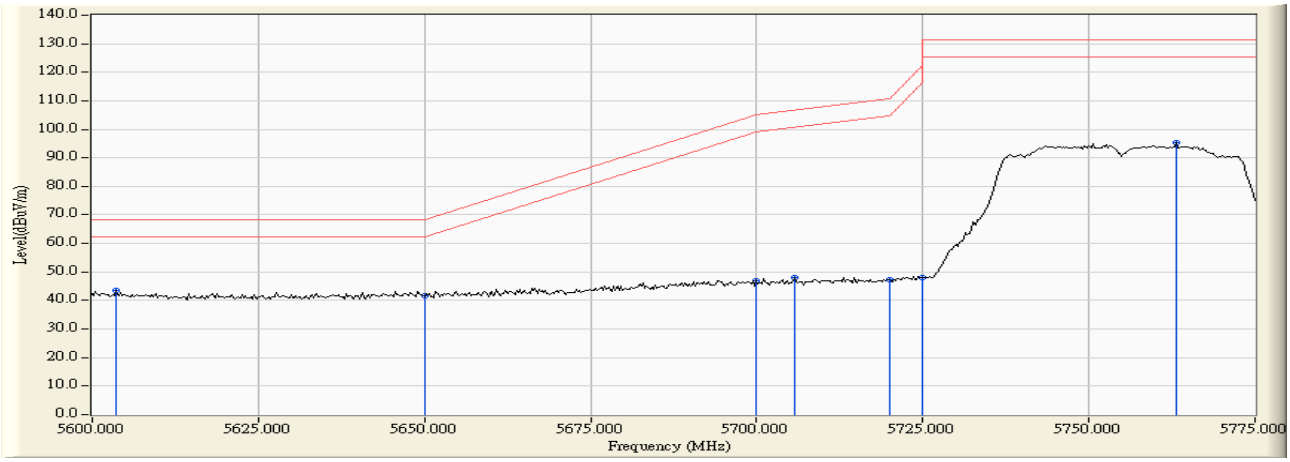
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5826.957	6.009	90.856	96.865	-34.335	131.200	Pass
Vertical	5850.000	6.037	38.629	44.666	-77.534	122.200	Pass
Vertical	5855.000	6.042	39.685	45.727	-65.073	110.800	Pass
Vertical	5864.928	6.053	39.923	45.976	-62.044	108.020	Pass
Vertical	5875.000	6.064	37.804	43.868	-61.332	105.200	Pass
Vertical	5925.000	6.102	34.813	40.915	-27.285	68.200	Pass
Vertical	5861.600	5.332	51.705	57.037	-11.183	68.220	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps) -Channel 151

RF Radiated Measurement :



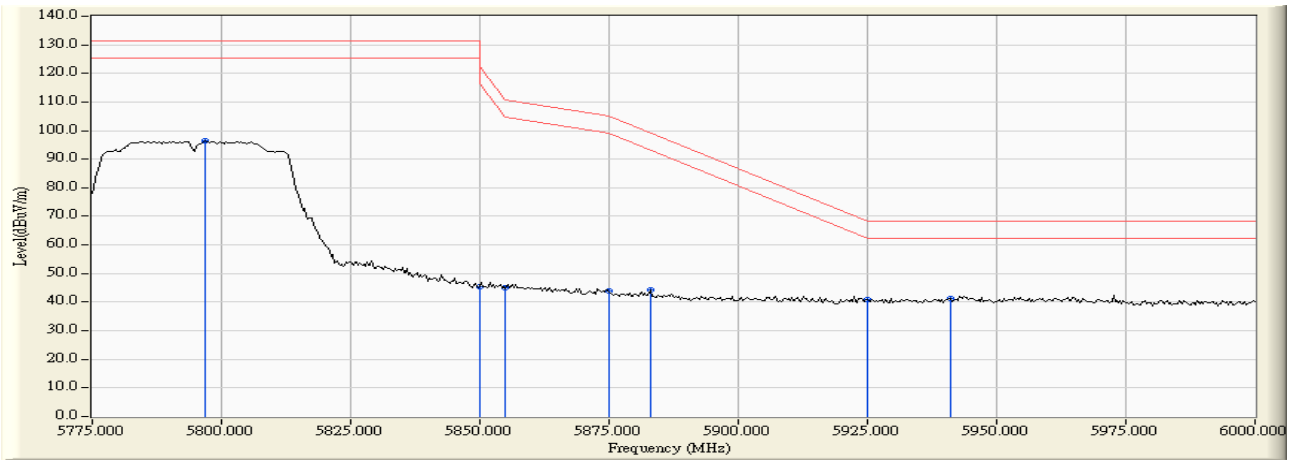
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5638.297	4.303	35.994	40.297	-27.923	68.220	Pass
Horizontal	5650.000	4.369	35.626	39.996	-28.224	68.220	Pass
Horizontal	5700.000	4.627	41.313	45.940	-59.260	105.200	Pass
Horizontal	5720.000	4.653	42.195	46.848	-63.952	110.800	Pass
Horizontal	5725.000	4.654	42.835	47.489	-74.711	122.200	Pass
Horizontal	5744.565	4.657	89.519	94.176	-37.024	131.200	Pass



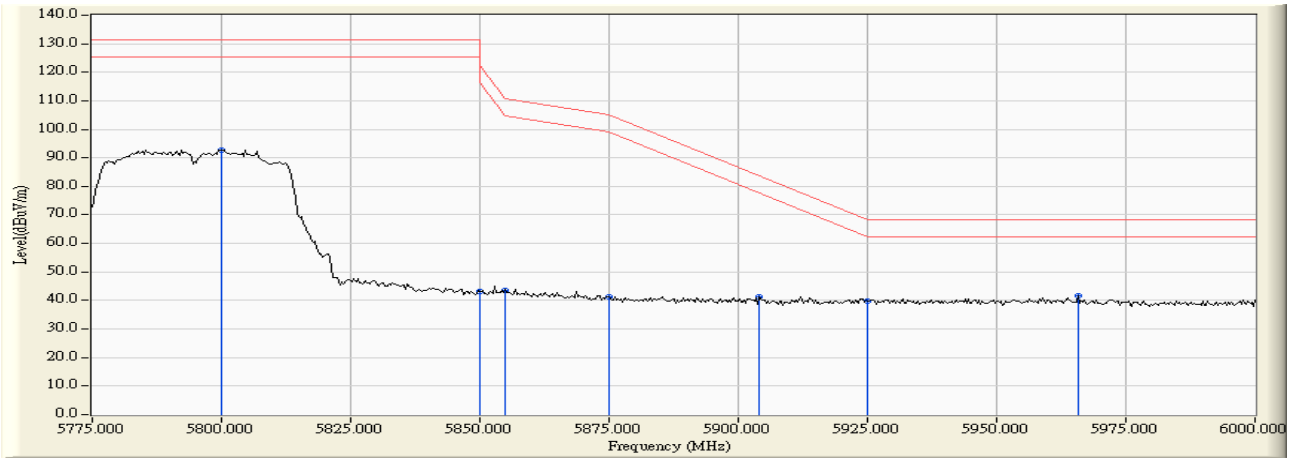
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5603.551	5.713	37.712	43.425	-24.795	68.220	Pass
Vertical	5650.000	5.844	35.750	41.595	-26.625	68.220	Pass
Vertical	5700.000	5.983	40.951	46.933	-58.267	105.200	Pass
Vertical	5705.761	5.991	42.229	48.219	-58.594	106.813	Pass
Vertical	5720.000	5.993	41.380	47.373	-63.427	110.800	Pass
Vertical	5725.000	5.992	42.118	48.111	-74.089	122.200	Pass
Vertical	5763.080	5.984	89.286	95.271	-35.929	131.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps) -Channel 159

RF Radiated Measurement:



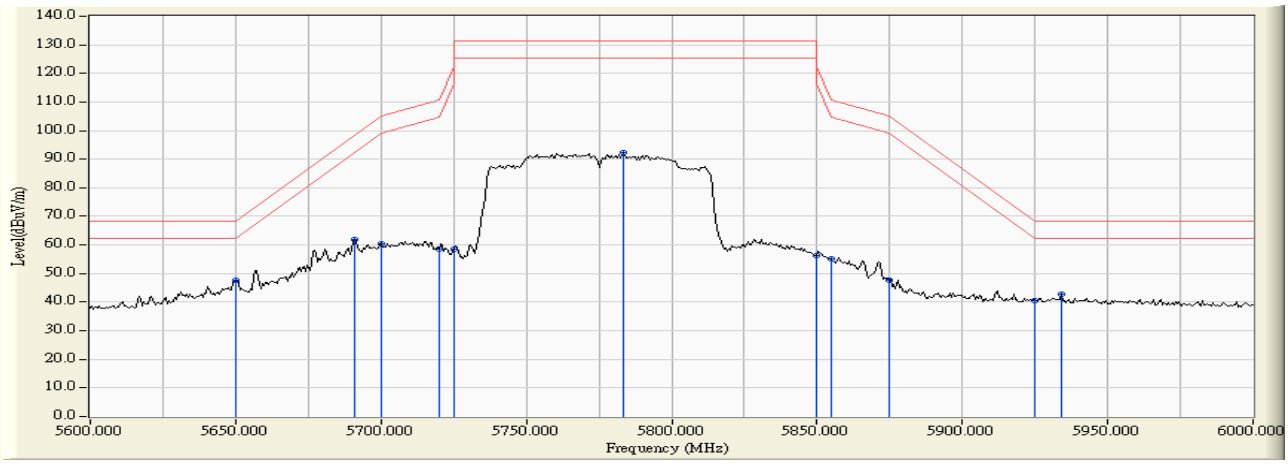
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5796.848	4.671	91.760	96.431	-34.769	131.200	Pass
Horizontal	5850.000	4.964	40.521	45.485	-76.715	122.200	Pass
Horizontal	5855.000	4.993	40.092	45.085	-65.715	110.800	Pass
Horizontal	5875.000	5.112	38.658	43.770	-61.430	105.200	Pass
Horizontal	5882.935	5.160	39.227	44.387	-54.941	99.328	Pass
Horizontal	5925.000	5.259	35.483	40.743	-27.457	68.200	Pass
Horizontal	5940.978	5.259	35.885	41.144	-27.056	68.200	Pass



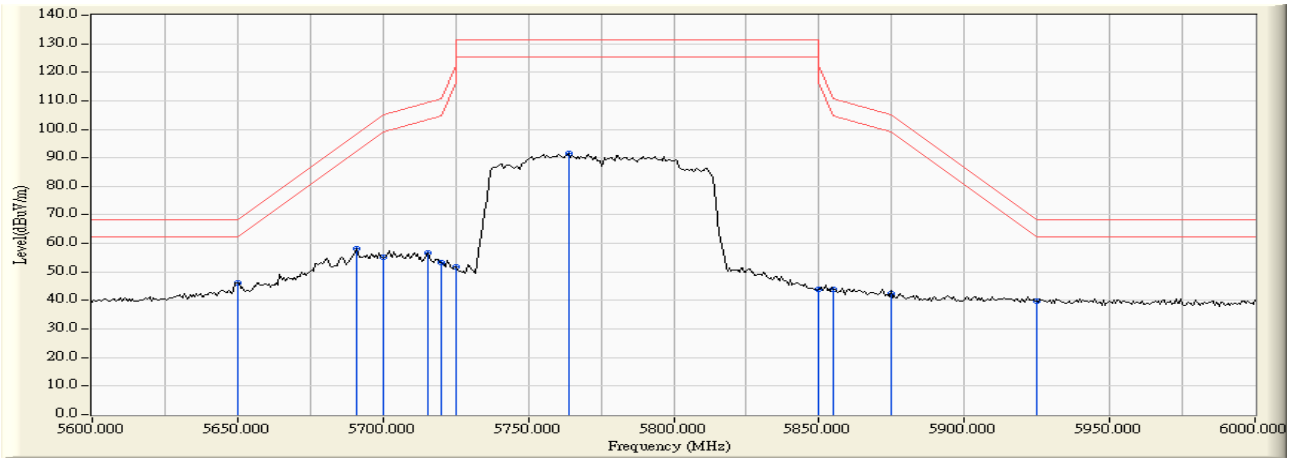
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5800.109	5.979	86.833	92.812	-38.388	131.200	Pass
Vertical	5850.000	6.037	37.279	43.316	-78.884	122.200	Pass
Vertical	5855.000	6.042	37.351	43.393	-67.407	110.800	Pass
Vertical	5875.000	6.064	35.124	41.188	-64.012	105.200	Pass
Vertical	5904.130	6.094	35.271	41.365	-42.279	83.644	Pass
Vertical	5925.000	6.102	33.582	39.684	-28.516	68.200	Pass
Vertical	5965.761	6.117	35.426	41.544	-26.656	68.200	Pass

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps)-Channel 155

RF Radiated Measurement:



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Horizontal	5650.000	4.369	43.210	47.580	-20.640	68.220	Pass
Horizontal	5691.014	4.600	57.308	61.908	-36.646	98.554	Pass
Horizontal	5700.000	4.627	55.774	60.401	-44.799	105.200	Pass
Horizontal	5720.000	4.653	53.802	58.455	-52.345	110.800	Pass
Horizontal	5725.000	4.654	53.975	58.629	-63.571	122.200	Pass
Horizontal	5783.188	4.662	87.583	92.245	-38.955	131.200	Pass
Horizontal	5850.000	4.964	51.437	56.401	-65.799	122.200	Pass
Horizontal	5855.000	4.993	50.101	55.094	-55.706	110.800	Pass
Horizontal	5875.000	5.112	42.667	47.779	-57.421	105.200	Pass
Horizontal	5925.000	5.259	35.456	40.716	-27.484	68.200	Pass
Horizontal	5933.913	5.259	37.366	42.625	-25.575	68.200	Pass



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuv)	Measure Level (dBuv /m)	Margin (dB)	Limit (dBuv /m)	Result
Vertical	5650.000	5.844	40.197	46.042	-22.178	68.220	Pass
Vertical	5691.014	5.969	52.224	58.193	-40.361	98.554	Pass
Vertical	5700.000	5.983	49.024	55.006	-50.194	105.200	Pass
Vertical	5715.362	5.995	50.603	56.597	-52.904	109.501	Pass
Vertical	5720.000	5.993	47.185	53.178	-57.622	110.800	Pass
Vertical	5725.000	5.992	45.840	51.833	-70.367	122.200	Pass
Vertical	5764.058	5.984	85.469	91.454	-39.746	131.200	Pass
Vertical	5850.000	6.037	37.713	43.750	-78.450	122.200	Pass
Vertical	5855.000	6.042	37.910	43.952	-66.848	110.800	Pass
Vertical	5875.000	6.064	36.421	42.485	-62.715	105.200	Pass
Vertical	5925.000	6.102	33.537	39.639	-28.561	68.200	Pass

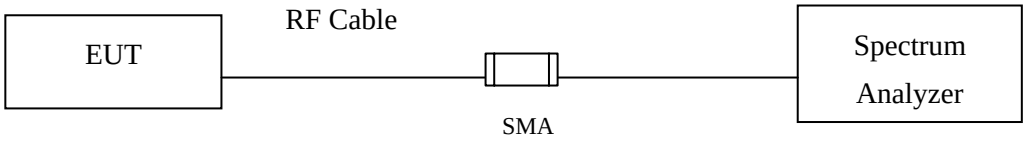
7. Occupied Bandwidth

7.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2016

Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

7.2. Test Setup



7.3. Limits

For the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz

7.4. .Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.5. Uncertainty

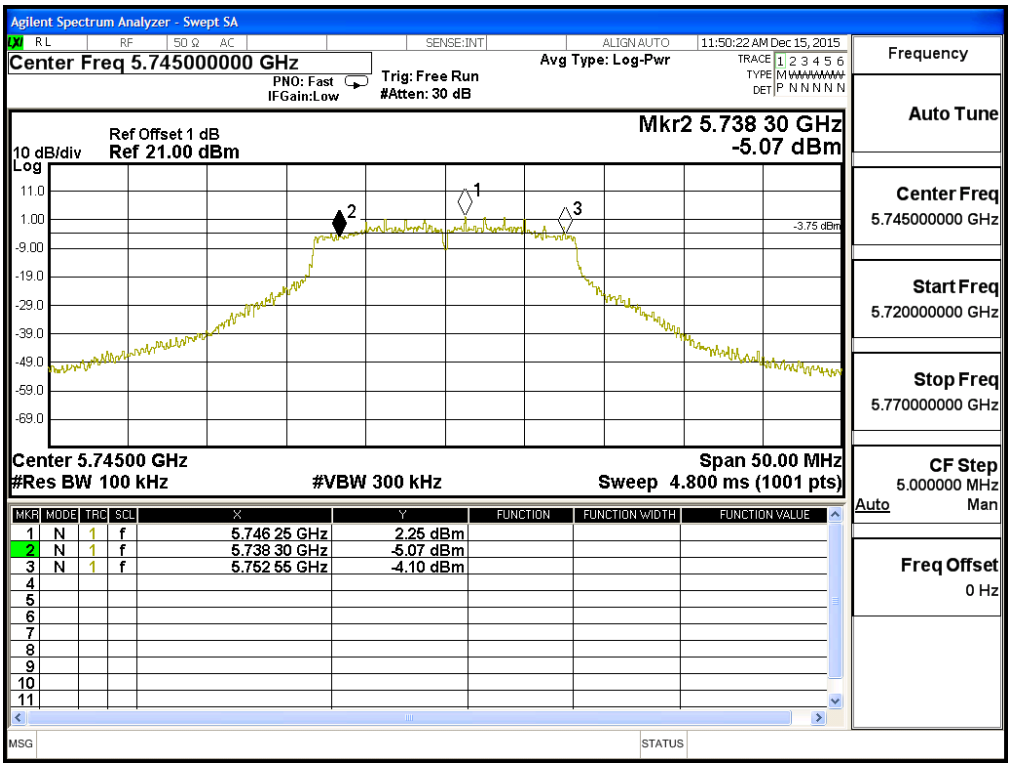
± 150Hz

7.6. Test Result of Occupied Bandwidth

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps) (5745MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	14250	>500	Pass

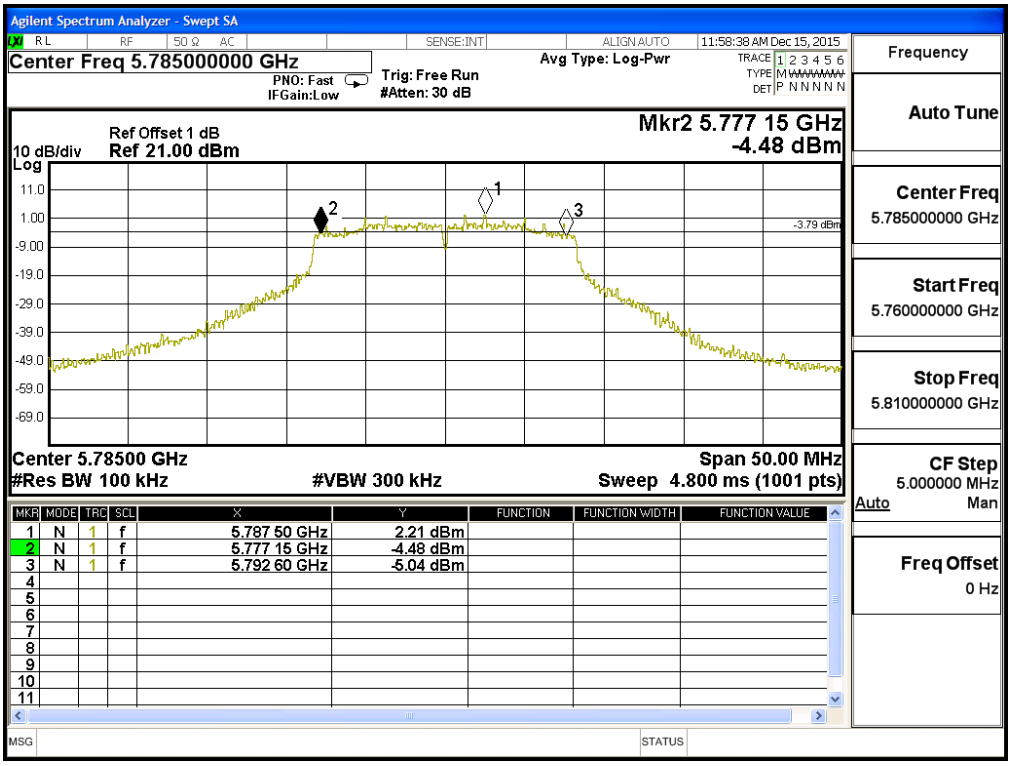
Figure Channel 149:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps) (5785MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	15450	>500	Pass

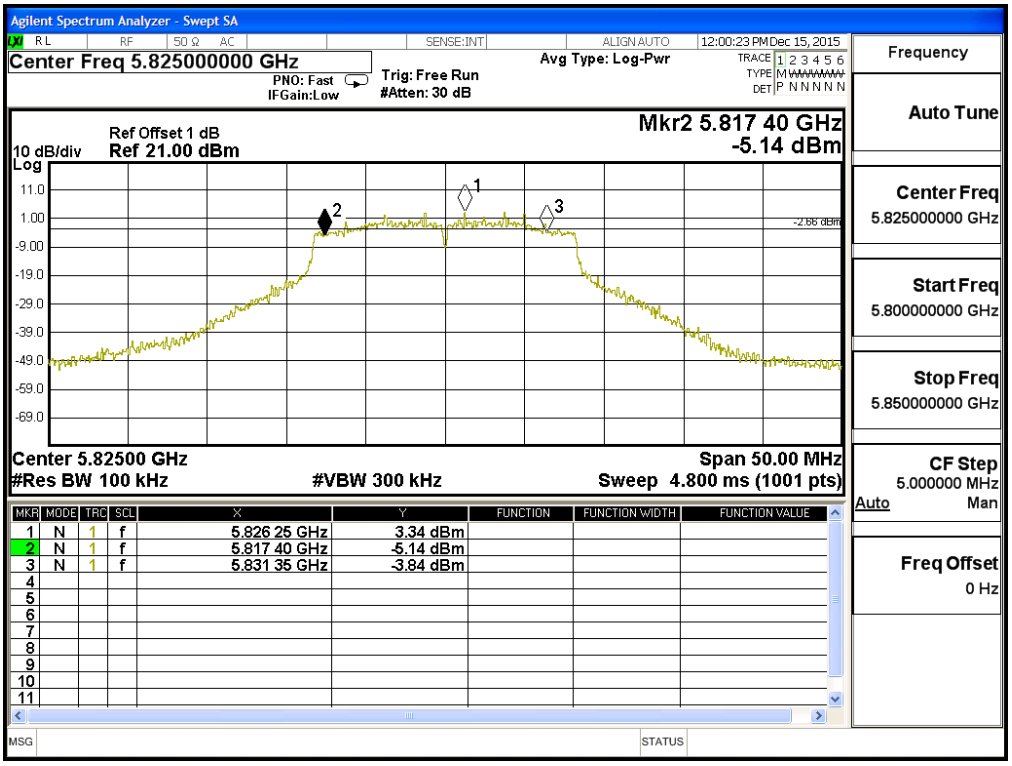
Figure Channel 157:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps) (5825MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	13950	>500	Pass

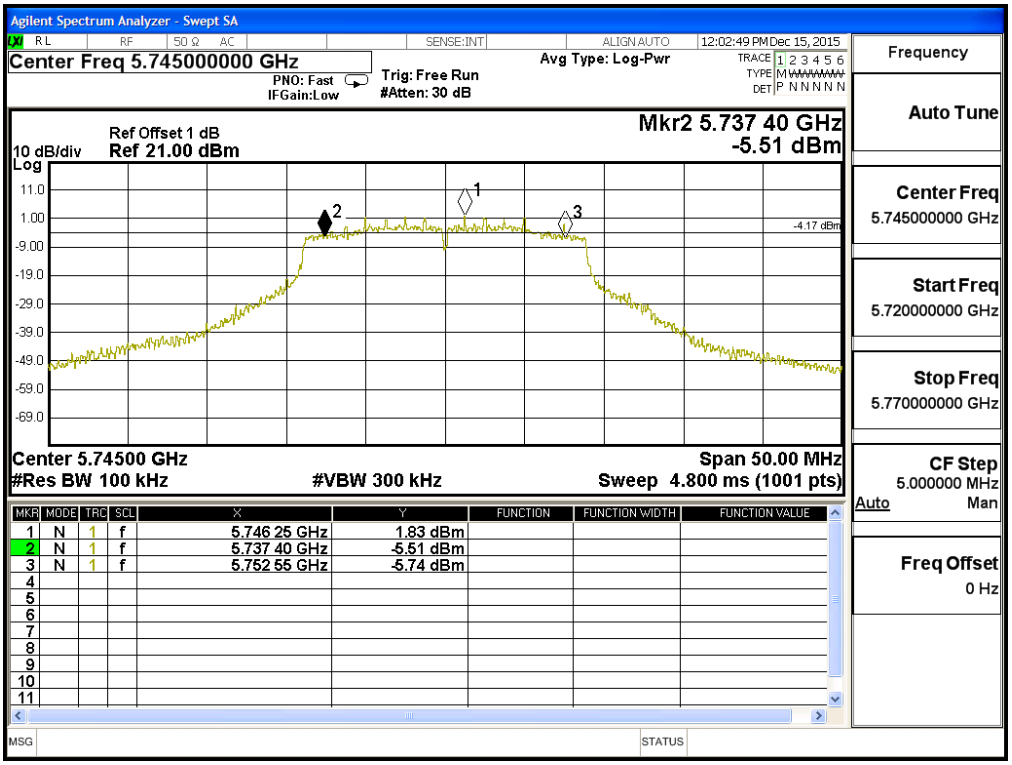
Figure Channel 165:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps) (5745MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	15150	>500	Pass

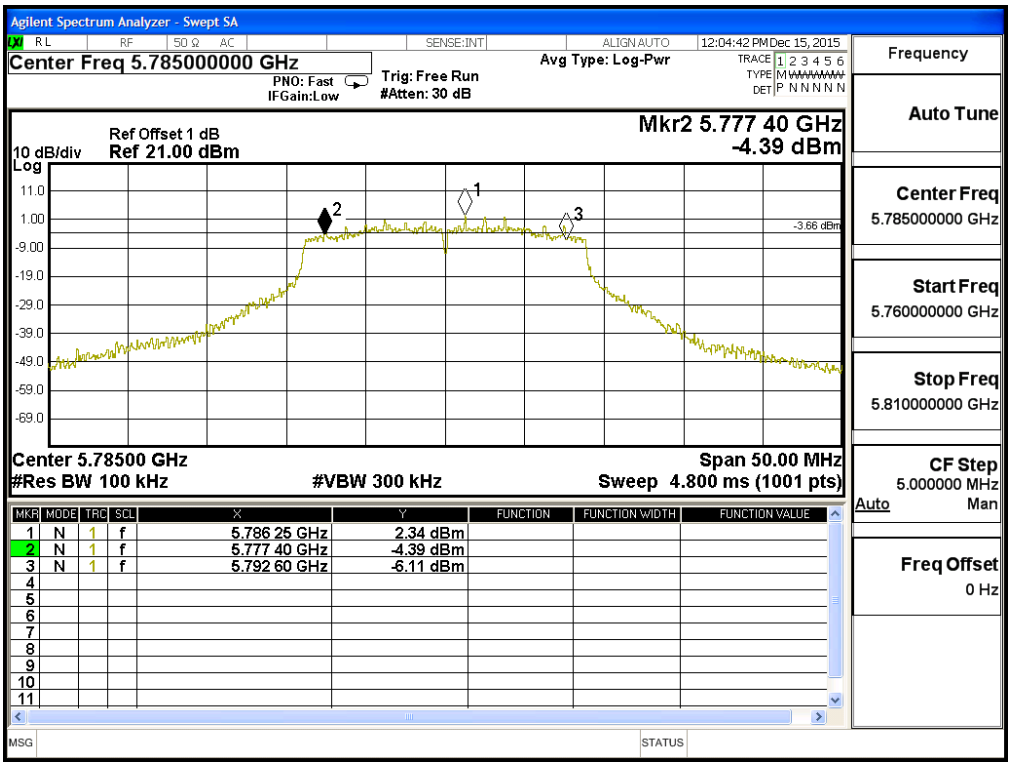
Figure Channel 149:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps) (5785MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	15200	>500	Pass

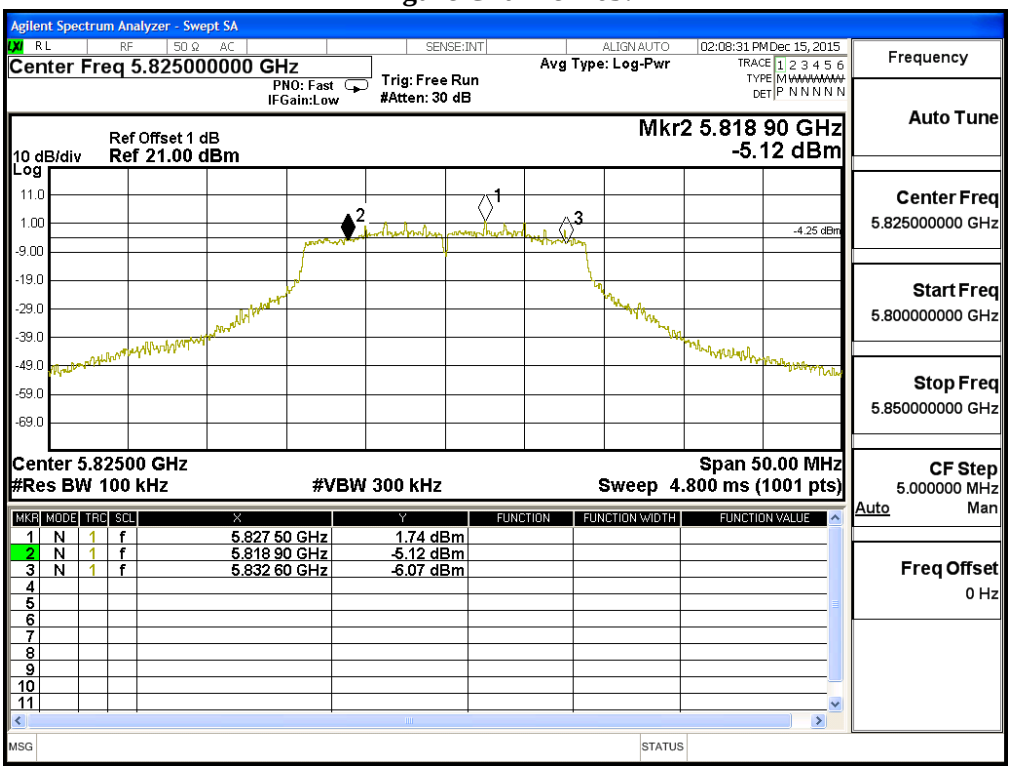
Figure Channel 157:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW-7.2Mbps) (5825MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	13700	>500	Pass

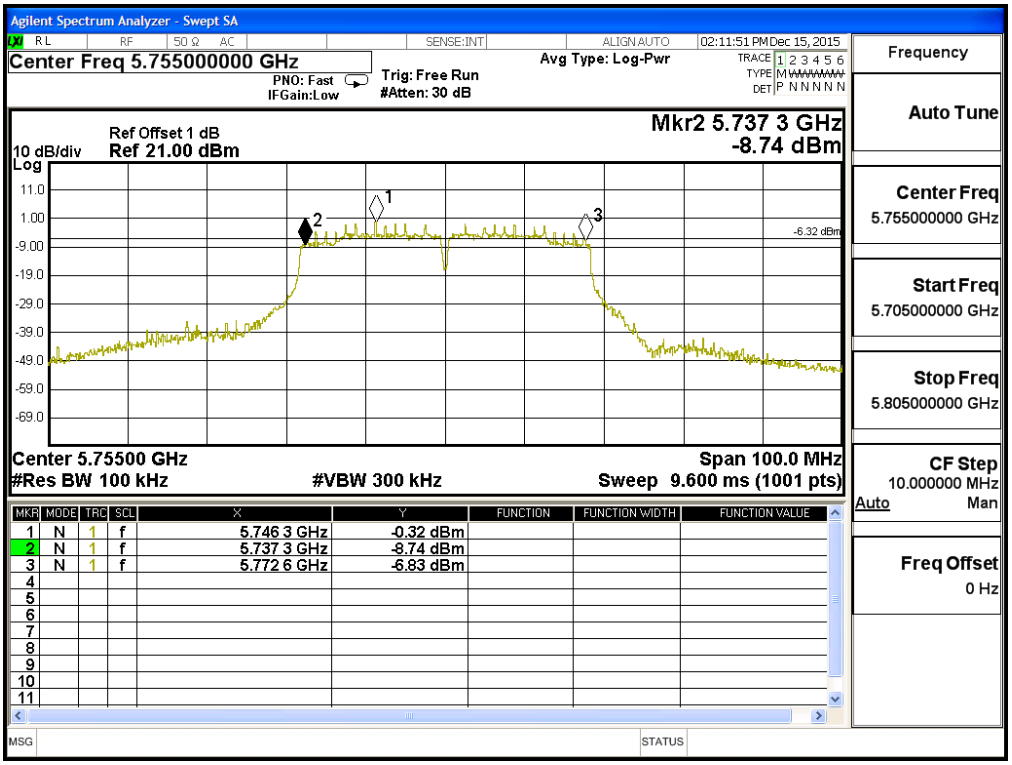
Figure Channel 165:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW-15Mbps) (5755MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	35300	>500	Pass

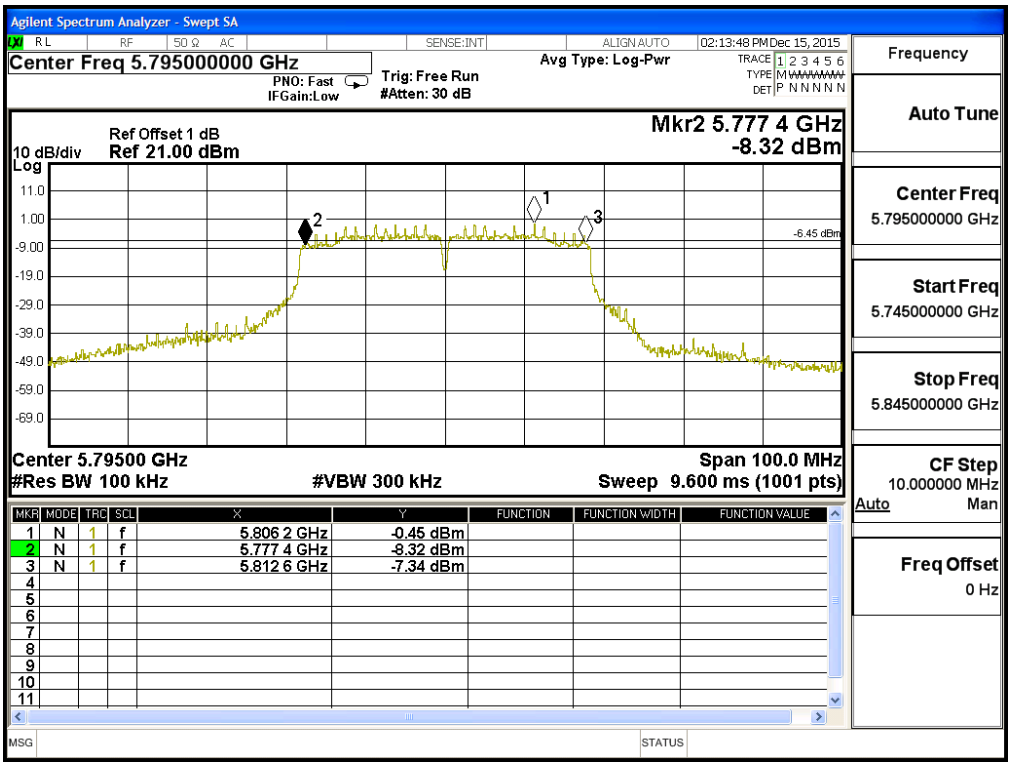
Figure Channel 151:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW-15Mbps) (5795MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	35200	>500	Pass

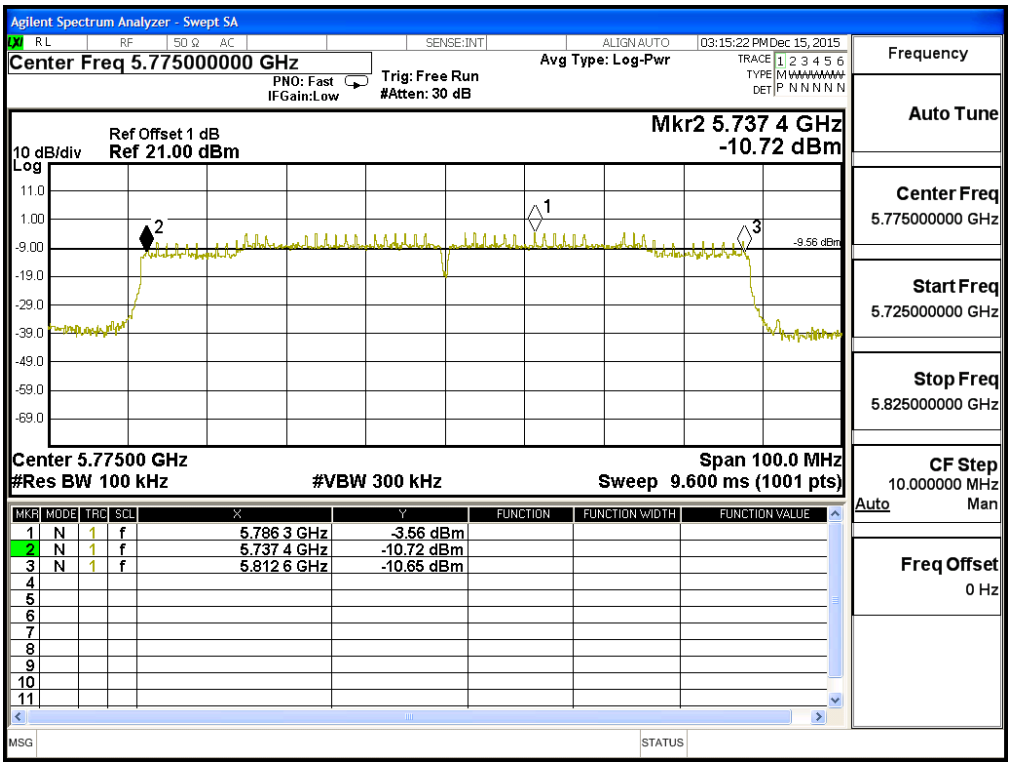
Figure Channel 159:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775.00	75200	>500	Pass

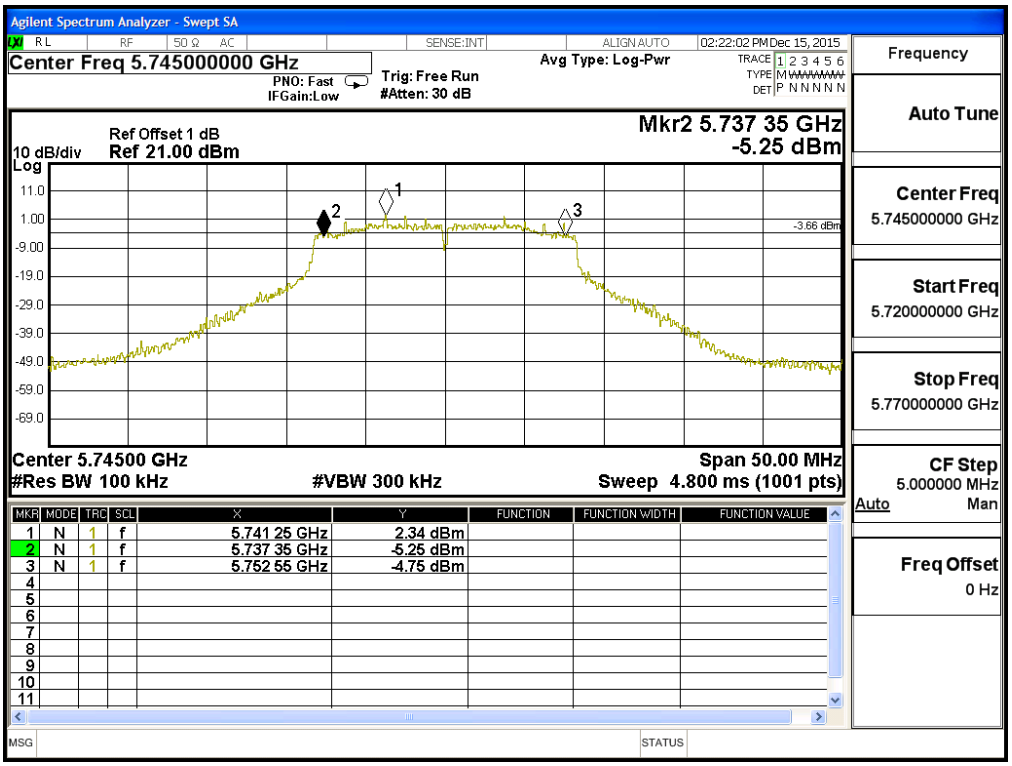
Figure Channel 155:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps) (5745MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	15200	>500	Pass

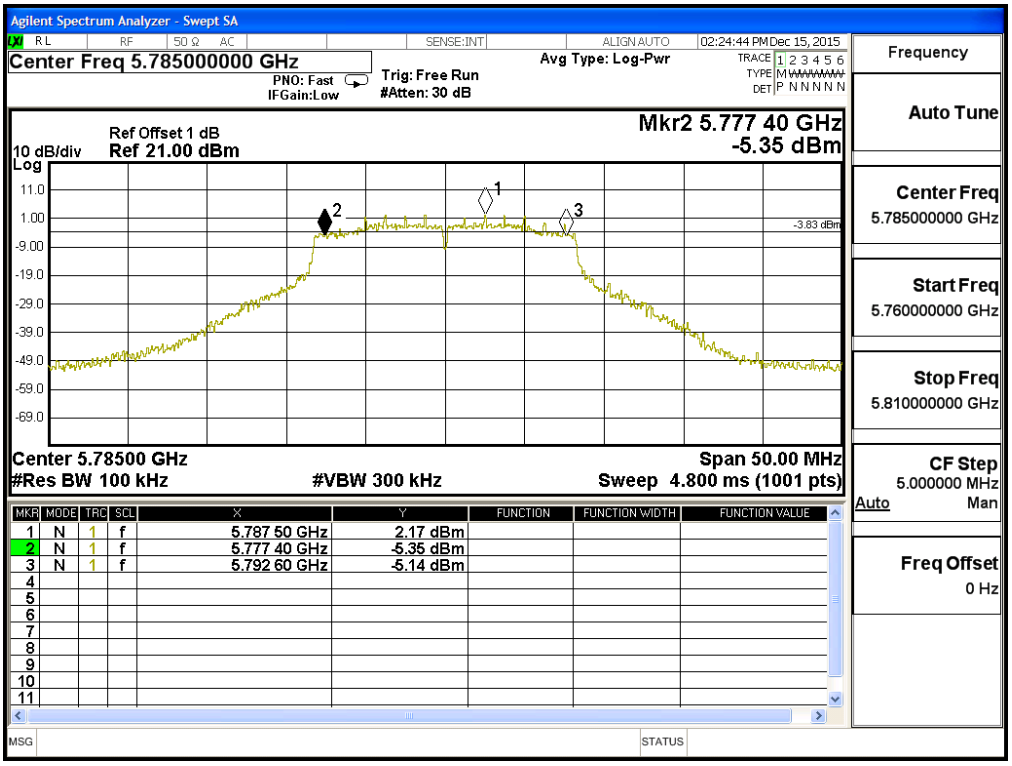
Figure Channel 149:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps) (5785MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	15200	>500	Pass

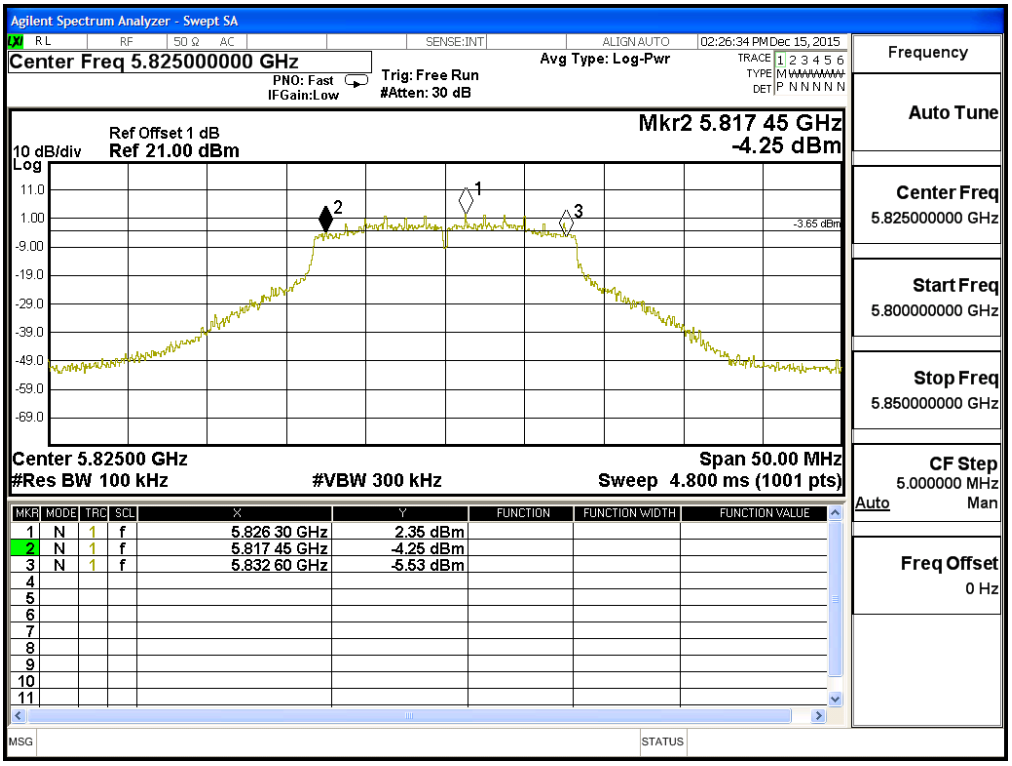
Figure Channel 157:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps) (5825MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	15150	>500	Pass

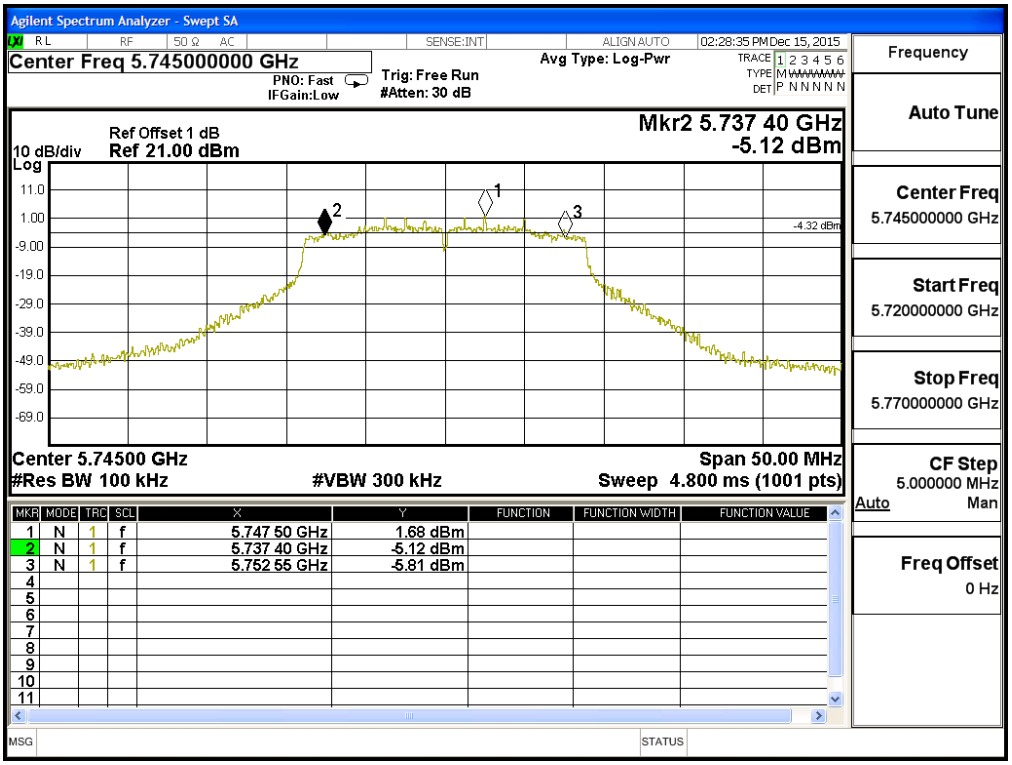
Figure Channel 165:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps) (5745MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	15150	>500	Pass

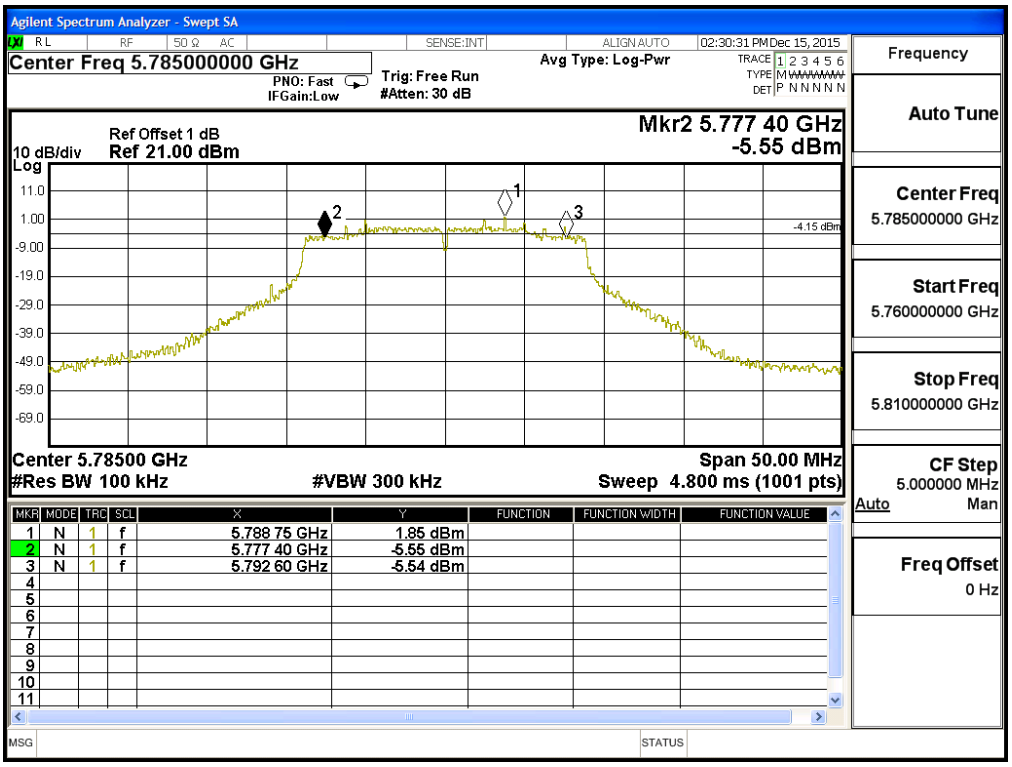
Figure Channel 149:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps) (5785MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	15200	>500	Pass

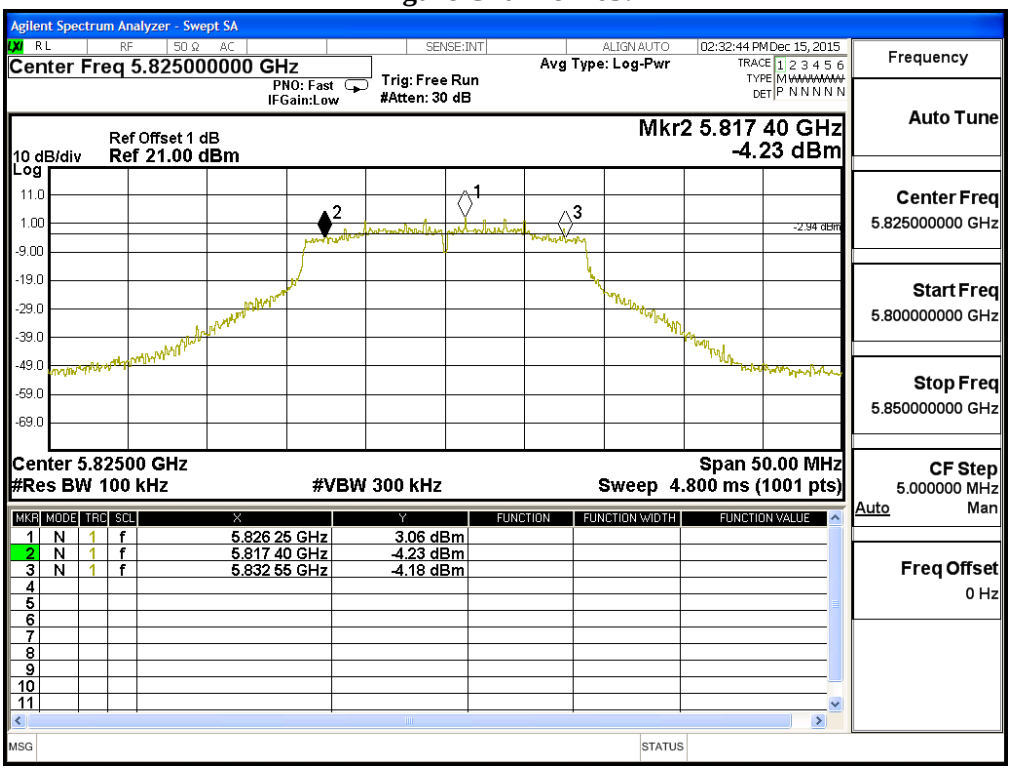
Figure Channel 157:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps) (5825MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	15150	>500	Pass

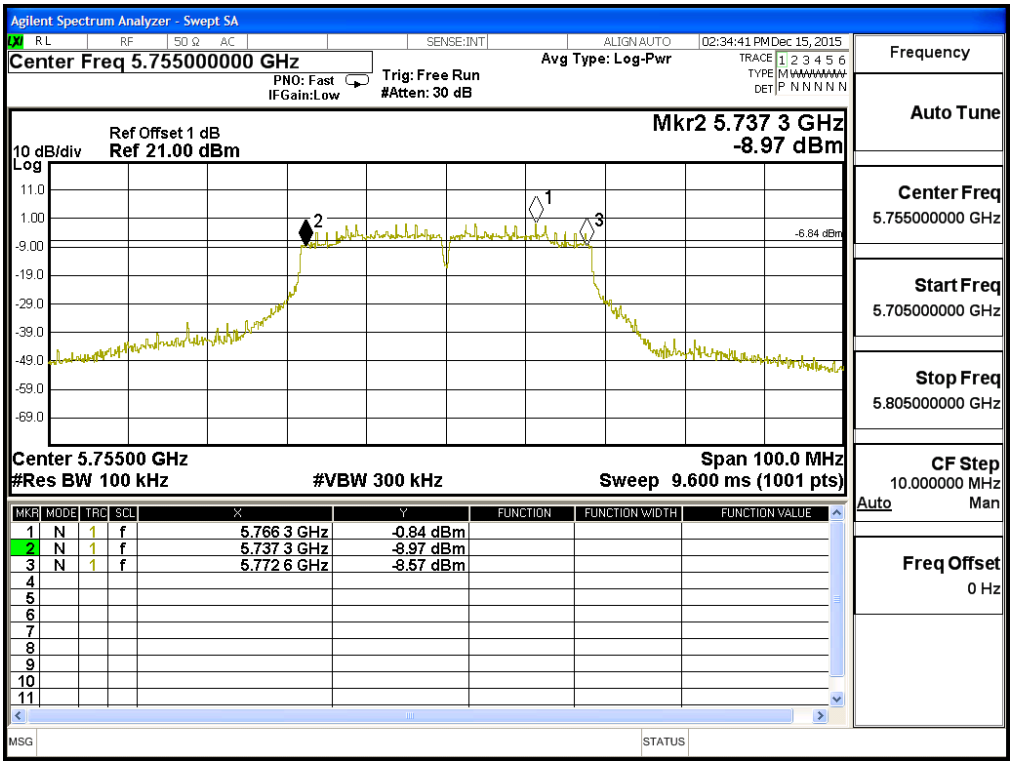
Figure Channel 165:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps) (5755MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	35300	>500	Pass

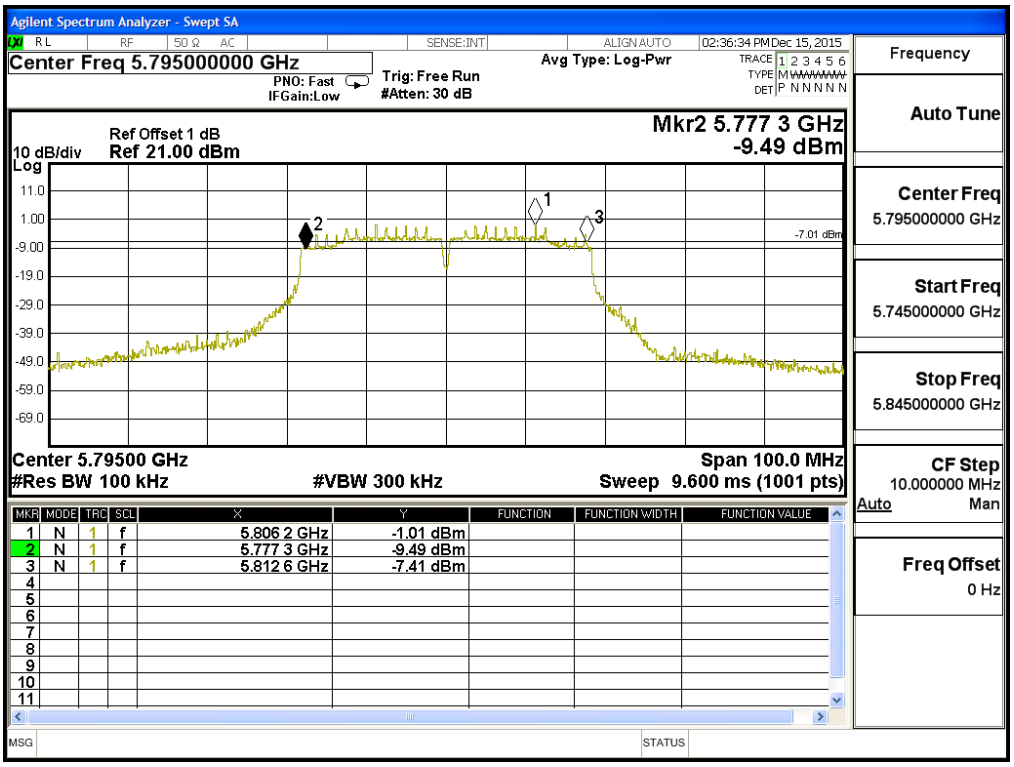
Figure Channel 151:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps) (5795MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	35300	>500	Pass

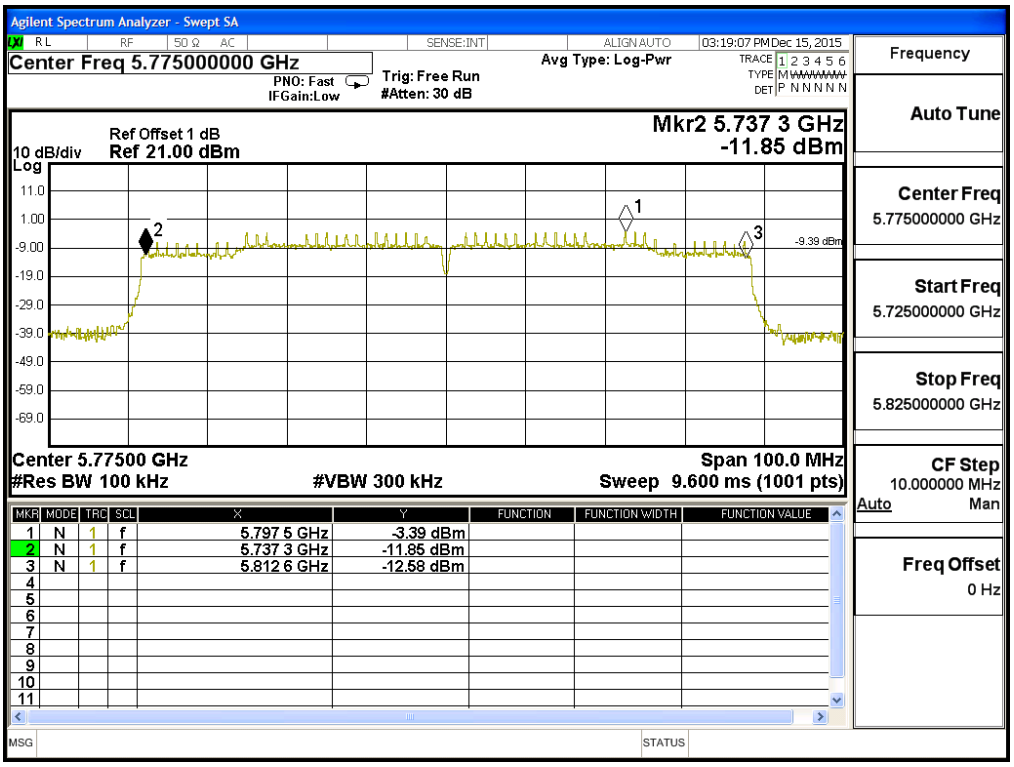
Figure Channel 159:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps) (5775MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775.00	75300	>500	Pass

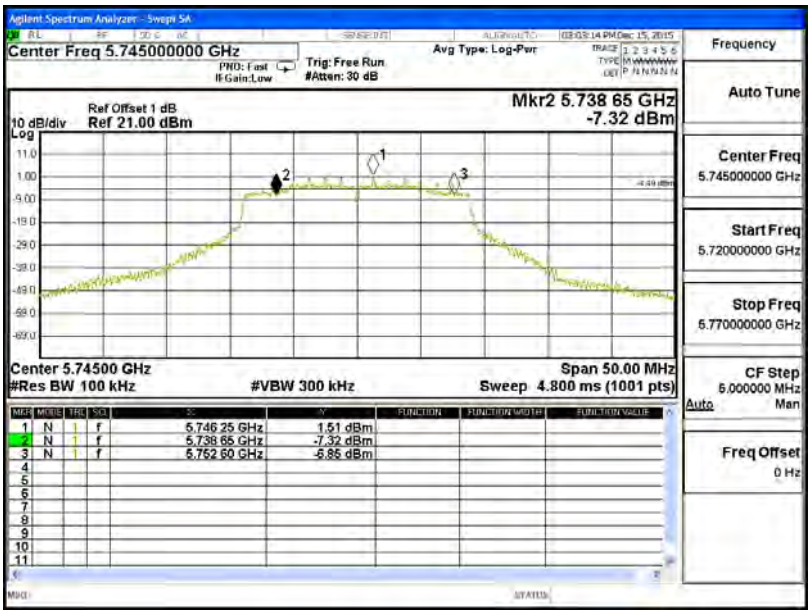
Figure Channel 155:



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps) (5745MHz)

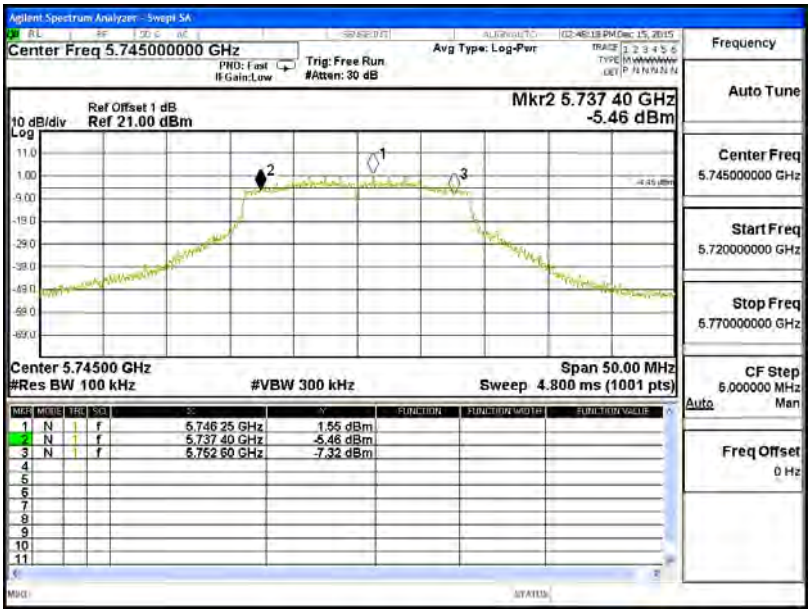
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	19350	>500	Pass

Figure Channel 149: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	15200	>500	Pass

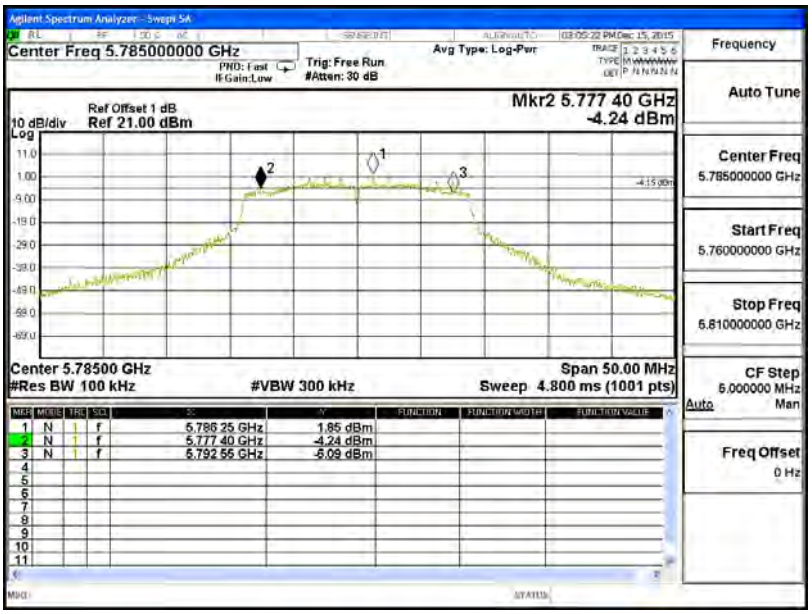
Figure Channel 149: (Chain B)



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps) (5785MHz)

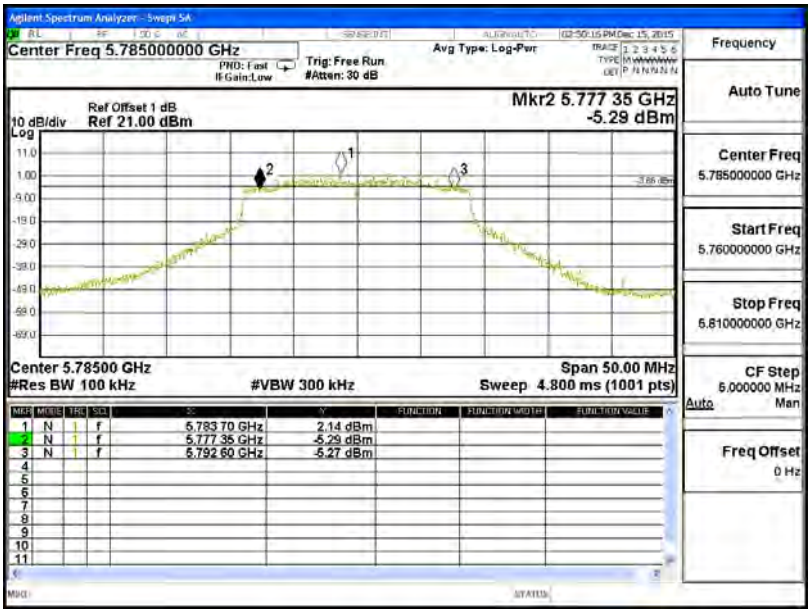
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	15150	>500	Pass

Figure Channel 157: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	15250	>500	Pass

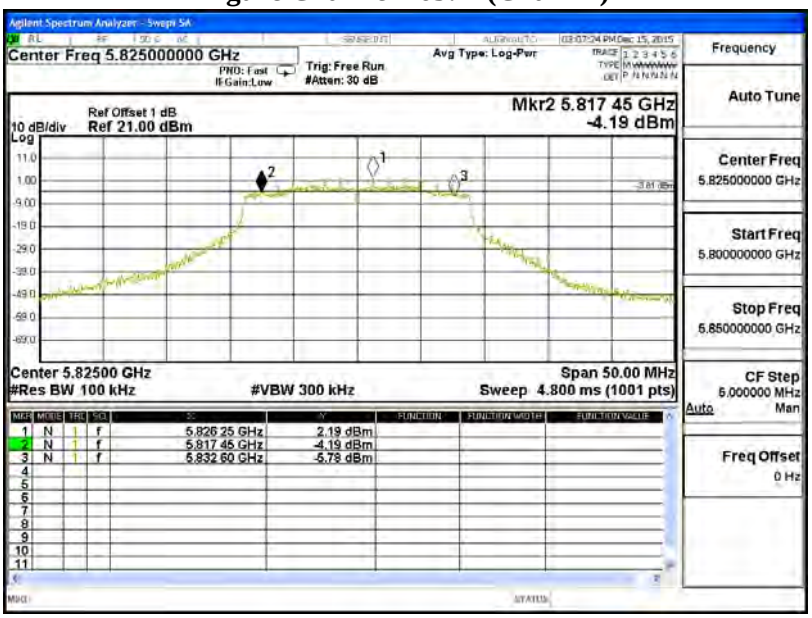
Figure Channel 157: (Chain B)



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps) (5825MHz)

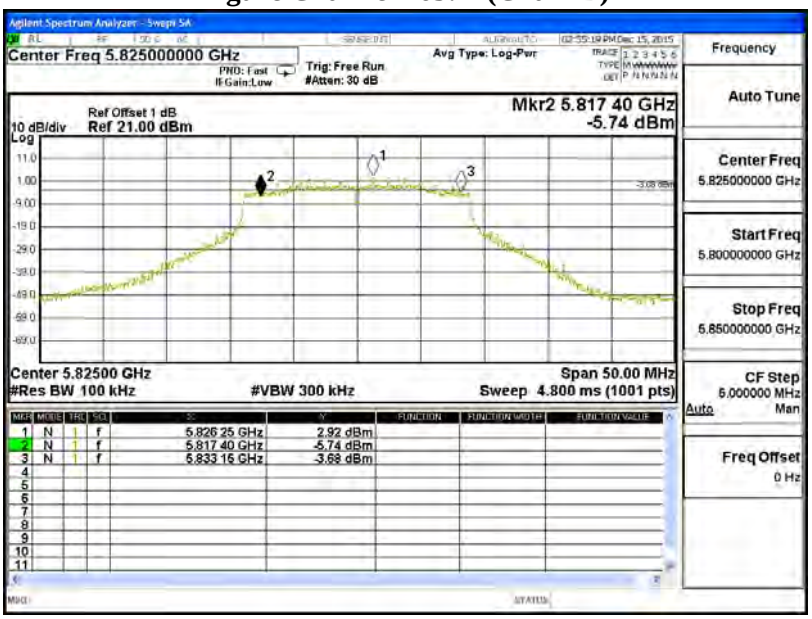
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	15150	>500	Pass

Figure Channel 165: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	15750	>500	Pass

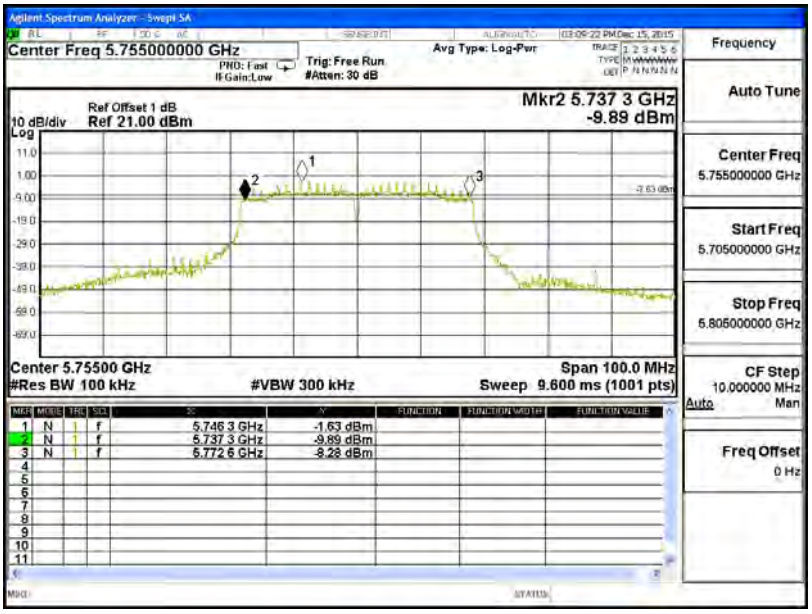
Figure Channel 165: (Chain B)



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps) (5755MHz)

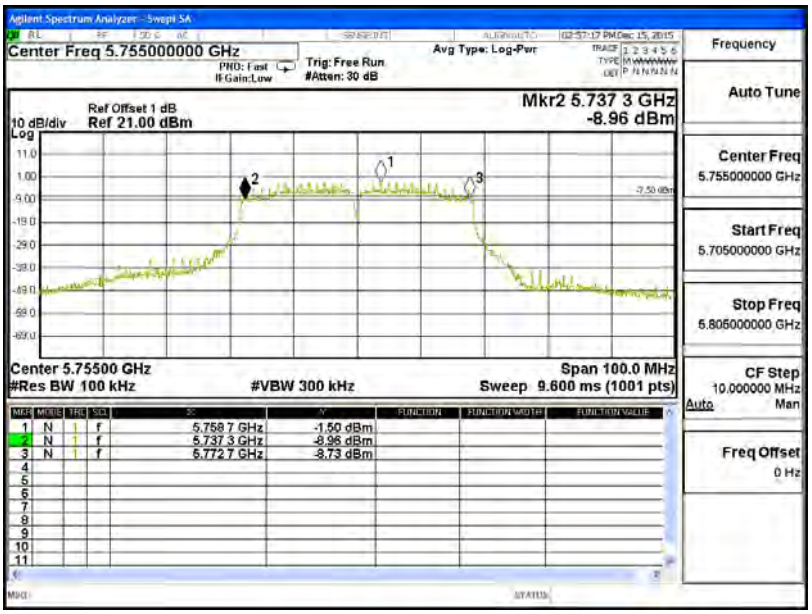
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	35300	>500	Pass

Figure Channel 151: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755.00	35400	>500	Pass

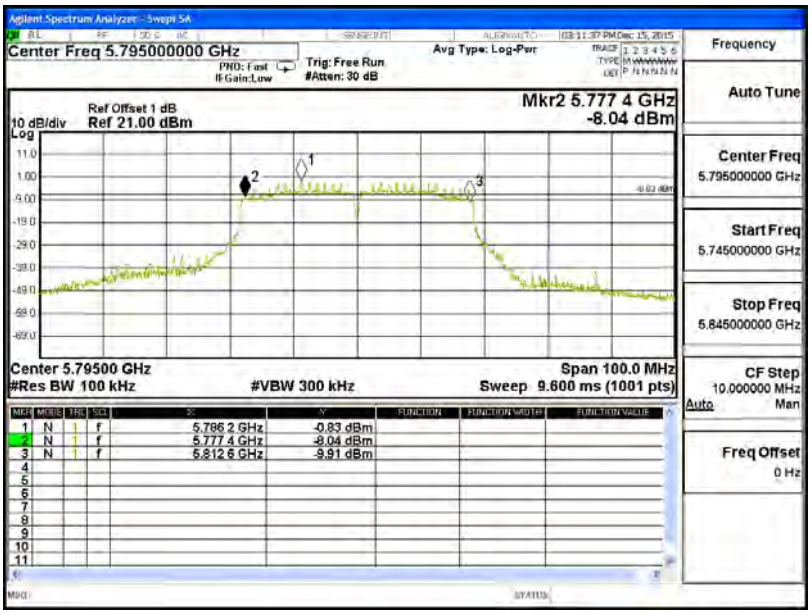
Figure Channel 151: (Chain B)



Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps) (5795MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	35200	>500	Pass

Figure Channel 159: (Chain A)



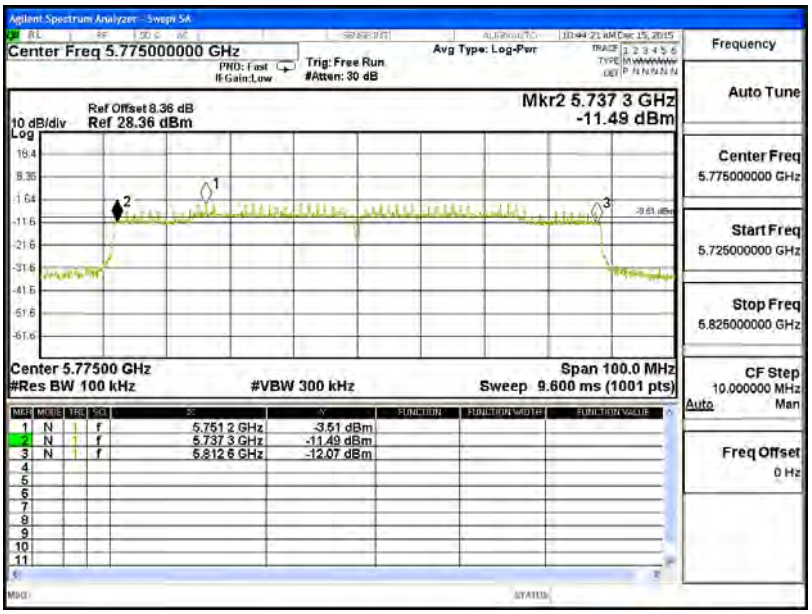
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
159	5795.00	35300	>500	Pass

Figure Channel 159: (Chain B)

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps) (5775MHz)

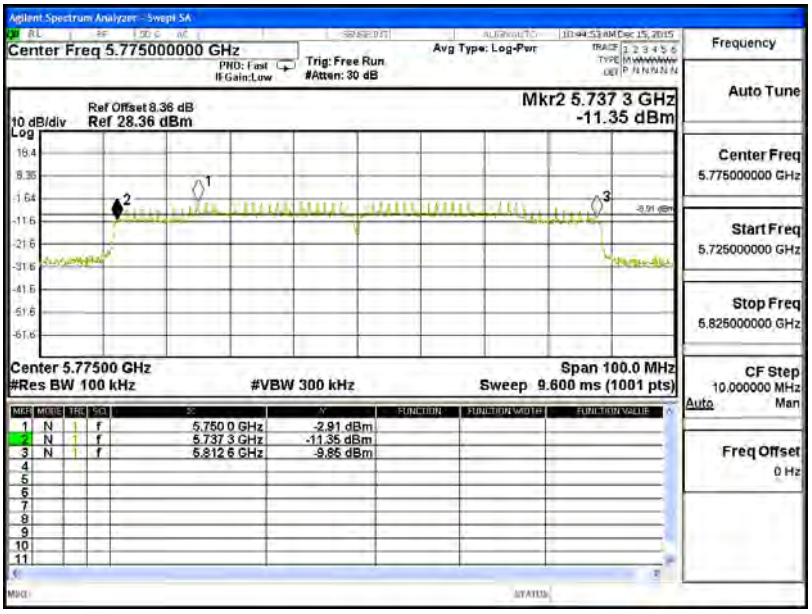
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775.00	75300	>500	Pass

Figure Channel 155: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775.00	75300	>500	Pass

Figure Channel 155: (Chain B)



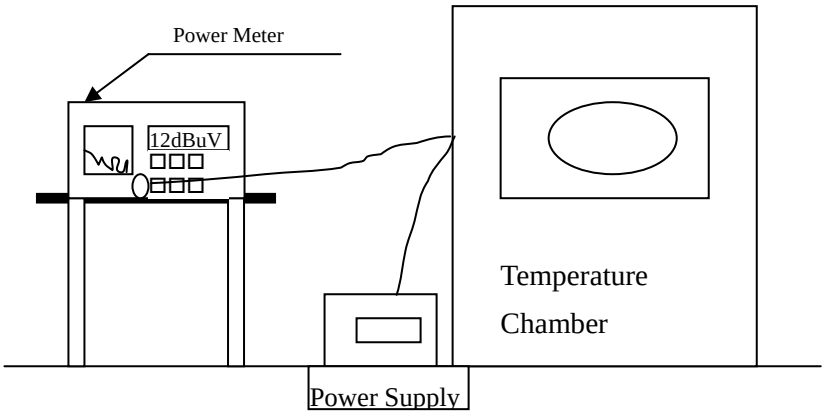
8. Frequency Stability

8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2016

Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

8.2. Test Setup



8.3. Limits

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified

8.4. Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

8.5. Uncertainty

± 150 Hz

8.6. Test Result of Frequency Stability

Product : Intel® Dual Band Wireless-AC 7265
Test Item : Frequency Stability
Test Site : Temperature Chamber
Test Mode : Carrier Wave

Chain A

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (20) oC	Vnom (120)V	149	5745.0000	5744.9965	0.0035
		151	5755.0000	5754.9962	0.0038
		157	5785.0000	5784.9956	0.0044
		159	5795.0000	5794.9951	0.0049
		165	5825.0000	5824.9949	0.0051

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (70) oC	Vmax (138)V	149	5745.0000	5744.9967	0.0033
		151	5755.0000	5754.9955	0.0045
		157	5785.0000	5784.9945	0.0055
		159	5795.0000	5794.9954	0.0046
		165	5825.0000	5824.9952	0.0048

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (70) ^{o}C	Vmin (102)V	149	5745.0000	5744.9969	0.0031
		151	5755.0000	5754.9954	0.0046
		157	5785.0000	5784.9956	0.0044
		159	5795.0000	5794.9951	0.0049
		165	5825.0000	5824.9949	0.0051

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (-20) oC	Vnom (138)V	149	5745.0000	5745.0032	-0.0032
		151	5755.0000	5755.0041	-0.0041
		157	5785.0000	5785.0037	-0.0037
		159	5795.0000	5795.0047	-0.0047
		165	5825.0000	5825.0053	-0.0053

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (-20) oC	Vmax (102)V	149	5745.0000	5745.0032	-0.0032
		151	5755.0000	5755.0041	-0.0041
		157	5785.0000	5785.0037	-0.0037
		159	5795.0000	5795.0047	-0.0047
		165	5825.0000	5825.0053	-0.0053

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (20) ^{o}C	Vnom (120)V	155	5775.0000	5774.9942	0.0058
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (70) ^{o}C	Vmax (138)V	155	5775.0000	5774.9952	0.0048
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (70) ^{o}C	Vmin (102)V	155	5775.0000	5774.9961	0.0039
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20) ^{o}C	Vmax (138)V	155	5775.0000	5775.0032	-0.0032
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20) ^{o}C	Vmin (102)V	155	5775.0000	5775.0036	-0.0036

Chain B

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (20) oC	Vnom (120)V	149	5745.0000	5744.9963	0.0037
		151	5755.0000	5754.9959	0.0041
		157	5785.0000	5784.9961	0.0039
		159	5795.0000	5794.9953	0.0047
		165	5825.0000	5824.9947	0.0053

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (70) oC	Vmax (138)V	149	5745.0000	5744.9961	0.0039
		151	5755.0000	5754.9960	0.0040
		157	5785.0000	5784.9949	0.0051
		159	5795.0000	5794.9953	0.0047
		165	5825.0000	5824.9951	0.0049

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (70) ^{o}C	Vmin (102)V	149	5745.0000	5744.9970	0.0030
		151	5755.0000	5754.9959	0.0041
		157	5785.0000	5784.9961	0.0039
		159	5795.0000	5794.9953	0.0047
		165	5825.0000	5824.9947	0.0053

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (-20) oC	Vnom (138)V	149	5745.0000	5745.0035	-0.0035
		151	5755.0000	5755.0049	-0.0049
		157	5785.0000	5785.0046	-0.0046
		159	5795.0000	5795.0044	-0.0044
		165	5825.0000	5825.0055	-0.0055

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (-20) oC	Vmax (102)V	149	5745.0000	5745.0029	-0.0029
		151	5755.0000	5755.0025	-0.0025
		157	5785.0000	5785.0043	-0.0043
		159	5795.0000	5795.0046	-0.0046
		165	5825.0000	5825.0058	-0.0058

Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tnom (20) ^{o}C	Vnom (120)V	155	5775.0000	5774.9945	0.0055
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (70) ^{o}C	Vmax (138)V	155	5775.0000	5774.9956	0.0044
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmax (70) ^{o}C	Vmin (102)V	155	5775.0000	5774.9959	0.0041
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20) ^{o}C	Vmax (138)V	155	5775.0000	5775.0034	-0.0034
Test Conditions		Channel	Frequency (MHz)	Frequency (MHz)	△F (MHz)
Tmin (-20) ^{o}C	Vmin (102)V	155	5775.0000	5775.0031	-0.0031

9. EMI Reduction Method During Compliance Testing

No modification was made during testing.