

# FCC Test Report

Product Name	Intel® Dual Band Wireless-AC 8260
Model No.	8260D2W
FCC ID.	PD98260D2

Applicant	Intel Mobile Communications
Address	100 Center Point Circle, Suite 200 Columbia, South
	Carolina 29210 USA

Date of Receipt	Mar. 30, 2015
Issued Date	May 15, 2015
Report No.	1540115R-RFUSP01V00-В
Report Version	V1.0
AC-MRA	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 report of the equipment and evaluated measurement uncertainty herein.

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## Test Report

Issued Date: May 15, 2015 Report No.: 1540115R-RFUSP01V00-B



Product Name	Intel® Dual Band Wireless-AC 8260
Applicant	Intel Mobile Communications
Address	100 Center Point Circle, Suite 200 Columbia, South Carolina 29210 USA
Manufacturer	Intel Mobile Communications
Model No.	8260D2W
FCC ID.	PD98260D2
EUT Rated Voltage	DC 3.3V
EUT Test Voltage	AC 120V/60Hz
Trade Name	Intel
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2013
	ANSI C63.4: 2009, ANSI C63.10: 2009
	KDB 558074 D01 DTS Meas Guidance v03r02
Test Result	Complied

Documented By :

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## 1. GENERAL INFORMATION

## **1.1. EUT Description**

Product Name	Intel® Dual Band Wireless-AC 8260
Trade Name	Intel
Model No.	8260D2W
FCC ID.	PD98260D2
Frequency Range	2402 – 2480MHz
Channel Number	V4.0: 40CH
Type of Modulation	V4.0: GFSK(1Mbps)
Antenna Type	PIFA Antenna
Channel Control	Auto
Antenna Gain	Refer to the table "Antenna List"

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	SkyCross	N/A (Main)	PIFA	3.24 dBi for 2.4GHz
		N/A (Aux)		

Note: The antenna of EUT is conforming to FCC 15.203.

Center Frequency of Each Channel: (For V4.0)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00:	2402 MHz	Channel 01:	2404 MHz	Channel 02:	2406 MHz	Channel 03:	2408 MHz
Channel 04:	2410 MHz	Channel 05:	2412 MHz	Channel 06:	2414 MHz	Channel 07:	2416 MHz
Channel 08:	2418 MHz	Channel 09:	2420 MHz	Channel 10:	2422 MHz	Channel 11:	2424 MHz
Channel 12:	2426 MHz	Channel 13:	2428 MHz	Channel 14:	2430 MHz	Channel 15:	2432 MHz
Channel 16:	2434 MHz	Channel 17:	2436 MHz	Channel 18:	2438 MHz	Channel 19:	2440 MHz
Channel 20:	2442 MHz	Channel 21:	2444 MHz	Channel 22:	2446 MHz	Channel 23:	2448 MHz
Channel 24:	2450 MHz	Channel 25:	2452 MHz	Channel 26:	2454 MHz	Channel 27:	2456 MHz
Channel 28:	2458 MHz	Channel 29:	2460 MHz	Channel 30:	2462 MHz	Channel 31:	2464 MHz
Channel 32:	2466 MHz	Channel 33:	2468 MHz	Channel 34:	2470 MHz	Channel 35:	2472 MHz
Channel 36:	2474 MHz	Channel 37:	2476 MHz	Channel 38:	2478 MHz	Channel 39:	2480 MHz

- 1. The EUT is a Intel® Dual Band Wireless-AC 8260with a built-in Bluetooth V4.0 transceiver.
- 2. These tests were conducted on a sample for the purpose of demonstrating compliance of Bluetooth transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
- 3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.

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## **1.3.** Tested System Details

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	
Α	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 on 1.4
- (2) Execute software "DRTU (Ver 1.8.1-01253)" on the Notebook PC.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press "OK" to start the continuous Transmit.
- (5) Verify that the EUT works properly.

## 1.6. Test Facility

Items	Required (IEC 68-1)	Actual			
Temperature (°C)	15-35	20-35			
Humidity (%RH)	25-75	30-65			
Barometric pressure (mbar)	860-1060	950-1000			

Ambient conditions in the laboratory:

The related certificate for our laboratories about the test site and management system can be downloaded from

QuieTek Corporation's Web Site: <u>http://www.quietek.com/chinese/about/certificates.aspx?bval=5</u> The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: <u>http://www.quietek.com/</u>

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## 2. Conducted Emission

### 2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
Х	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2014	
Х	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2015	Peripherals
Х	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2015	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar., 2015	EUT
Х	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2015	
	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 (dBµV) Limit						
Frequency	Lin	nits				
MHz	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 Peripherals 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 refer 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 the interface cables must be changed according to ANSI C63.4: 2009 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: 2009; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

#### 2.5. Uncertainty

± 2.26 dB

## 2.6. Test Result of Conducted Emission

Product	:	Intel® Dual Band Wireless-AC 8260
Test Item	:	Conducted Emission Test
Power Line	:	Line 1
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2440MHz)

Frequency	requency Correct Reading Measu		Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.154	9.670	36.940	46.610	-19.276	65.886
0.185	9.661	33.080	42.741	-22.259	65.000
0.271	9.664	23.150	32.814	-29.729	62.543
0.576	9.681	30.530	40.211	-15.789	56.000
1.545	9.744	20.150	29.894	-26.106	56.000
2.302	9.782	21.970	31.752	-24.248	56.000
Average					
0.154	9.670	25.100	34.770	-21.116	55.886
0.185	9.661	22.870	32.531	-22.469	55.000
0.271	9.664	14.350	24.014	-28.529	52.543
0.576	9.681	26.730	36.411	-9.589	46.000
1.545	9.744	12.680	22.424	-23.576	46.000
2.302	9.782	13.800	23.582	-22.418	46.000

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 Test Item Power Line Test Mode	<ul> <li>Intel® Dual Band Wireless-AC 8260</li> <li>Conducted Emission Test</li> <li>Line 2</li> <li>Mode 1: Transmit - BLE (GFSK) (2440MHz)</li> </ul>						
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV	dB	dBuV		
LINE 2							
Quasi-Peak							
0.150	9.671	35.360	45.031	-20.969	66.000		
0.185	9.661	31.420	41.081	-23.919	65.000		
0.556	9.680	27.980	37.660	-18.340	56.000		
1.537	9.743	18.610	28.353	-27.647	56.000		
2.318	9.782	22.920	32.702	-23.298	56.000		
18.255	10.166	13.760	23.926	-36.074	60.000		
Average							
0.150	9.671	21.870	31.541	-24.459	56.000		
0.185	9.661	19.200	28.861	-26.139	55.000		
0.556	9.680	19.950	29.630	-16.370	46.000		
1.537	9.743	9.790	19.533	-26.467	46.000		
2.318	9.782	14.890	24.672	-21.328	46.000		
18.255	10.166	4.170	14.336	-35.664	50.000		

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

## 3. Peak Power Output

#### **3.1.** Test Equipment

_	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Х	Power Meter	Anritsu	ML2495A/6K00003357	May, 2015
Х	Power Sensor	Anritsu	MA2411B/0738448	Jun., 2014

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

#### 3.2. Test Setup



#### **3.3.** Limit

The maximum peak power shall be less 1Watt.

#### **3.4.** Test Procedure

Tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using KDB 558074 section 9.1.2 PKPM1 Peak power meter method.

#### 3.5. Uncertainty

± 1.27 dB

## 3.6. Test Result of Peak Power Output

Product	:	Intel® Dual Band Wireless-AC 8260
Test Item	:	Peak Power Output
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK)

Channel No.	Frequency	Measurement	Required Limit	Result
	(MHz)	(dBm)		
Channel 00	2402.00	9.86	1 Watt= 30 dBm	Pass
Channel 19	2440.00	9.85	1 Watt= 30 dBm	Pass
Channel 39	2480.00	9.98	1 Watt= 30 dBm	Pass



#### 4. Radiated Emission

#### 4.1. 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	Х	Loop Antenna	Teseq	HLA6120 / 26739	Jul., 2014
	Х	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2014
	Х	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2014
	Х	Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2014
	Х	Pre-Amplifier	Agilent	8447D/2944A09549	Sep., 2014
	Х	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2015
	Х	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2014
	Х	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2015
	Х	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
CB # 8	X Spectrum Analyzer		R&S	FSP40/ 100339	Oct, 2014
	Х	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2015
	X Horn Antenna		Schwarzbeck	BBHA9170/209	Jan, 2015
	X Horn Antenna		TRC	AH-0801/95051	Aug, 2014
	Х	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2015
	Х	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2014
	Χ	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2014

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

Below 1GHz



## 4.3. Limits

#### ➤ General Radiated Emission 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 Limits						
Frequency MHz	Field strength	Measurement distance				
11112	(microvolts/meter)	(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: 1. RF Voltage  $(dB\mu V) = 20 \log RF$  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.

#### 4.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2009 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 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 0.8 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: 2009 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.

#### 4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

Product Test Item Test Site Test Mode	<ul> <li>Intel® Dual Band Wireless-AC 8260</li> <li>Harmonic Radiated Emission</li> <li>No.3 OATS</li> <li>Mode 1: Transmit - BLE (GFSK)(2402MHz)</li> </ul>					
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBµV	dBµV/m	dB	dBµV/m	
Horizontal						
<b>Peak Detector:</b>						
4804.000	35.667	45.660	48.170	-25.830	74.000	
7206.000	41.679	39.770	49.759	-24.241	74.000	
9608.000	42.589	39.080	49.927	-24.073	74.000	
Average						
<b>Detector:</b>						
Vertical						
Peak Detector:						
4804.000	2.923	45.870	48.792	-25.208	74.000	
7206.000	9.511	41.250	50.761	-23.239	74.000	
9608.000	10.394	40.310	50.704	-23.296	74.000	
Average						
<b>Detector:</b>						

#### 4.6. Test Result of Radiated Emission

- 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 8260							
Test Item	: Harmonic Radiated Emission							
Test Site	: No.3 OA	: No.3 OATS						
Test Mode	: Mode 1: '	Transmit - BLE	(GFSK) (2440MHz)					
Frequency	Correct	Reading	Measurement	Margin	Limit			
	Factor	Level	Level					
MHz	dB	dBµV	$dB\mu V/m$	dB	dBµV/m			
Horizontal								
Peak Detector:								
4880.000	2.038	44.090	46.128	-27.872	74.000			
7320.000	10.303	39.720	50.023	-23.977	74.000			
9760.000	10.299	39.170	49.470	-24.530	74.000			
Average								
Detector:								
Vertical								
Peak Detector:								
4880.000	2.499	44.520	47.019	-26.981	74.000			
7320.000	10.303	39.770	50.073	-23.927	74.000			
9760.000	10.299	40.170	50.470	-23.530	74.000			
Average								
<b>Detector:</b>								

- 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 8260							
Test Item	: Harmonic Radiated Emission							
Test Site	: No.3 OA	: No.3 OATS						
Test Mode	: Mode 1:	Transmit - BLE	(GFSK) (2480MHz)					
Frequency	Correct	Reading	Measurement	Margin	Limit			
	Factor	Level	Level					
MHz	dB	dBµV	dBµV/m	dB	dBµV/m			
Horizontal								
Peak Detector:								
4960.000	2.582	43.120	45.702	-28.298	74.000			
7440.000	10.555	38.120	48.675	-25.325	74.000			
9920.000	10.206	38.670	48.876	-25.124	74.000			
Average								
Detector:								
Vertical								
Peak Detector:								
4960.000	3.398	45.930	49.329	-24.671	74.000			
7440.000	11.214	39.000	50.214	-23.786	74.000			
9920.000	11.245	38.480	49.725	-24.275	74.000			
Average								
Detector:								

=

- 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 8260
Test Item	:	General Radiated Emission
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2440MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBµV	$dB\mu V/m$	dB	dBµV/m
Horizontal					
187.140	-11.217	44.027	32.810	-10.690	43.500
359.800	-0.226	27.419	27.193	-18.807	46.000
499.480	1.991	26.796	28.786	-17.214	46.000
635.280	1.798	26.027	27.825	-18.175	46.000
786.600	5.824	27.580	33.405	-12.595	46.000
951.500	6.993	26.885	33.878	-12.122	46.000
Vertical					
222.060	-6.484	38.355	31.870	-14.130	46.000
390.840	-0.768	25.884	25.116	-20.884	46.000
505.300	0.056	32.896	32.952	-13.048	46.000
656.620	-2.535	25.779	23.244	-22.756	46.000
790.480	2.693	23.103	25.796	-20.204	46.000
914.640	-0.980	27.515	26.535	-19.465	46.000

- 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.

## 5. **RF Antenna Conducted Test**

## 5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2014
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2014
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated every one year.

2. The test instruments Marked "X" are used to measure the final test results.

#### 5.2. Test Setup



#### 5.3. Limits

According to FCC Section 15.247(d). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

#### 5.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

#### 5.5. Uncertainty

± 150Hz

#### 5.6. Test Result of RF Antenna Conducted Test

Product	:	Intel® Dual Band Wireless-AC 8260
Test Item	:	RF Antenna Conducted Test
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK)

#### **Figure Channel 00:**



#### **Figure Channel 19:**



#### Figure Channel 39:



Note: The above test pattern is synthesized by multiple of the frequency range.

## 6. Band Edge

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### 6.1. Test Equipment

#### **RF** Conducted Measurement

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2014
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2014
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

#### **RF Radiated Measurement:**

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

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
$\Box$ Site # 3		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2014
	Х	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2014
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2014
	Х	Pre-Amplifier	Agilent	8447D/2944A09549	Sep., 2014
	Х	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2015
		Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2014
	Х	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2015
	Х	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	Χ	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

Note:

1. All equipments 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** Conducted Measurement



#### **RF Radiated Measurement:**

Above 1GHz



#### 6.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

#### 6.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2009 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 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 from 1 meter to 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 C63.10:2009 on radiated measurement.

#### 6.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz



#### 6.6. Test Result of Band Edge

Product	:	Intel® Dual Band Wireless-AC 8260
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2402MHz)

#### **RF Radiated Measurement (Horizontal):**

Channel No	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Result
Channel NO.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Result
00 (Peak)	2389.600	-2.688	52.191	49.502	74.00	54.00	Pass
00 (Peak)	2390.000	-2.687	50.397	47.710	74.00	54.00	Pass
00 (Peak)	2400.000	-2.660	71.005	68.345	74.00	54.00	Pass
00 (Peak)	2402.200	-2.657	105.804	103.147			
00 (Average)	2389.600	-2.688	37.073	34.384	74.00	54.00	Pass
00 (Average)	2390.000	-2.687	37.150	34.463	74.00	54.00	Pass
00 (Average)	2400.000	-2.660	50.936	48.276	74.00	54.00	Pass
00 (Average)	2402.000	-2.657	83.132	80.475			









Horizontal (Average)



- 1. All readings 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. "\*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Intel <sup>®</sup> Dual Band Wireless-AC 8260
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2402MHz)

#### **RF Radiated Measurement (Vertical):**

Channal No.	Frequency	Correct Factor	Reading Level	<b>Emission Level</b>	Peak Limit	Arerage Limit	Dogult
Channel No.	(MHz)	(dB)	(dBµV)	(dBµV/m)	$(dB\mu V/m)$	$(dB\mu V/m)$	Result
00 (Peak)	2389.700	-4.157	54.912	50.754	74.00	54.00	Pass
00 (Peak)	2390.000	-4.159	52.412	48.253	74.00	54.00	Pass
00 (Peak)	2400.000	-4.171	70.059	65.888	74.00	54.00	Pass
00 (Peak)	2402.200	-4.171	104.871	100.700			
00 (Average)	2389.700	-4.157	36.778	32.620	74.00	54.00	Pass
00 (Average)	2390.000	-4.159	36.863	32.704	74.00	54.00	Pass
00 (Average)	2400.000	-4.171	50.420	46.249	74.00	54.00	Pass
00 (Average)	2402.000	-4.171	82.591	78.420			

**Figure Channel 00:** 

Vertical (Peak)





Vertical (Average)



- 1. All readings 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. "\*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Intel <sup>®</sup> Dual Band Wireless-AC 8260
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2480MHz)

#### **RF Radiated Measurement (Horizontal):**

Channal No	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Docult
Channel No.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Result
39 (Peak)	2479.800	-2.605	105.885	103.280			
39 (Peak)	2483.500	-2.601	56.916	54.314	74.00	54.00	Pass
39 (Peak)	2489.700	-2.596	60.026	57.430	74.00	54.00	Pass
39 (Average)	2480.000	-2.605	82.877	80.272			
39 (Average)	2483.500	-2.601	40.213	37.611	74.00	54.00	Pass
39 (Average)	2489.700	-2.596	37.517	34.921	74.00	54.00	Pass





Horizontal (Average)



- 1. All readings 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. "\*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	Intel® Dual Band Wireless-AC 8260
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2480MHz)

#### **RF Radiated Measurement (Vertical):**

Channal Ma	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Arerage Limit	Dogult
Channel No.	(MHz)	(dB)	(dBµV)	$(dB\mu V/m)$	$(dB\mu V/m)$	$(dB\mu V/m)$	Result
39 (Peak)	2479.800	-3.978	103.285	99.307			
39 (Peak)	2483.500	-3.966	54.998	51.031	74.00	54.00	Pass
39 (Peak)	2489.700	-3.947	57.785	53.838	74.00	54.00	Pass
39 (Average)	2480.000	-3.978	81.306	77.328			
39 (Average)	2483.500	-3.966	39.360	35.393	74.00	54.00	Pass
39 (Average)	2489.700	-3.947	37.271	33.324	74.00	54.00	Pass





- 1. All readings 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. "\*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

## 7. Occupied Bandwidth (6dB BW)

#### 7.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2014
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2014
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 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.

#### 7.2. Test Setup



#### 7.3. Limits

The minimum bandwidth shall be at least 500 kHz.

#### 7.4. Test Procedure

The EUT was setup according to ANSI C63.10 2009; tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 1-5% of the emission bandwidth, VBW $\geq$ 3\*RBW

#### 7.5. Uncertainty

± 150Hz

## 7.6. Test Result of Occupied Bandwidth

Intel® Dual Band Wireless-AC 8260
Occupied Bandwidth Data
No.3 OATS
Mode 1: Transmit - BLE (GFSK) (2402MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	700	>500	Pass

## Figure Channel 00:

Agilen	t Spec	trum	Ana	lyzer - Swe	pt SA											
Cen	ter	Frec	RF <b>1 2</b>	50 Ω .40200	AC 0000 G	Hz		SEN		Av	у Туре	ALIGNAUTO :: Log-Pwr	10:18:32 A TRA TY	M Apr 14, 2015 CE 1 2 3 4 5 6 PE M WAAAAAAA		Frequency
_					H H	NO: Wide Gain:Low	Ļ	#Atten: 30	) dB			Mkr	2 2 401	65 GHz	1	Auto Tune
10 dE	3/div	R	lef ( lef	Offset 0.5 20.50 d	dB IBm				-				1.	17 dBm		
10.5								2<	)1 ∕_∕∕3					1.72 dBm		Center Freq
-9.50																2.40200000 GHZ
-19.5										~						Start Freq
-29.5 -39.5							Λ									2.397000000 GHz
-49.5					100	and the second	_			<u> </u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
-59.5	www	ኂሌ∿ቍ	~~	non a	www.								V V MAN	www.		<b>Stop Freq</b> 2.407000000 GHz
Con	tor	2 4 01	200										Enon 1	0.00 MH-		
#Re:	s BV	V 10	01	Hz		#VE	3W	300 kHz			;	Sweep 1	.000 ms (	(1001 pts)		CF Step 1.000000 MHz
MKR 1	MODE	TRC S	CCU f		× 2.402 (	01 GHz		Y 7.72 dF	FL 3m	INCTION	FUN	ICTION WIDTH	FUNCTI	ON VALUE	AL	<u>ito</u> Man
2 3 4 5	N N	1	f		2.401 ( 2.402 (	35 GHz 35 GHz		1.17 dE 1.25 dE	3m 3m							<b>Freq Offset</b> 0 Hz
6 7																
9 10																
11 <														×		
MSG												STATU	s			

:	Intel® Dual Band Wireless-AC 8260
:	Occupied Bandwidth Data
:	No.3 OATS
:	Mode 1: Transmit - BLE (GFSK) (2440MHz)
	:

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
19	2440	690	>500	Pass

## Figure Channel 19:

Image: Note of the server of the se	Agilent Spectr	um Analyzer - Swe	ept SA							
PNO: Wile         Tig-Free Kun #Atten: 30 dB         Mkr2 2.439 64 GHz 1.57 dBm         Auto Tune           10 dB/div         Ref Offset 0.5 dB         1.57 dBm         1.57 dBm         210 dm         24000000 GHz         24000000 GHz         244000000 GHz         24400000 GHz         350         35         35         35         35         35         35         35         35         35         35         35         36	Center F	RF 50 Ω req 2.44000	AC	SE		Avg Type	ALIGNAUTO : Log-Pwr	10:24:11 AM TRAC	4 Apr 14, 2015 E 1 2 3 4 5 6	Frequency
10 dB/div       Ref 20.50 dBm       1.07 dBm         10 dB/div       Ref 20.50 dBm       210 dBm         10 dB/div       Ref 20.50 dBm       210 dBm         9.50       210 dBm       210 dBm         9.50       210 dBm       210 dBm         9.50       210 dBm       210 dBm         9.50       240000000 GHz       24000000 GHz         9.50       9.50       9.50         10 dB/div       8 dBm       1.000 MHz         Stap Freq       2.44500000 GHz         8 dB/div       1 f       2.440 01 GHz         8 dB/div       1 f       2.440 35 GHz       1.52 dBm         11       1       1       1.52 dBm       1.52 dBm         11       1       1       1.52 dBm       1.52 dBm		Ref Offset 0.	PNO: Wid IFGain:Lo	le	) dB		Mkr	2 2.439	64 GHz	Auto Tune
9.50	10 dB/div Log 10.5 0.500	Ref 20.50 c		<u></u> 2	1				2.10 dBm	Center Freq 2.44000000 GHz
49.5     49.5     50.5	-9.50 -19.5 -29.5									<b>Start Freq</b> 2.435000000 GHz
Center 2.440000 GHz         Span 10.00 MHz         CF Step 1.00000 GHz           #Res BW 100 Hz         #VBW 300 kHz         Sweep 1.000 ms (1001 pts)         1.000000 MHz           MX8 M008 FR6 SCL         X         FUNCTION         FUNCTION WIDTH         FUNCTION WIDTH         FUNCTION VALUE         Auto           1         1         f         2.440 01 GHz         8.10 dBm         FUNCTION WIDTH         FUNCTION VALUE         Auto         Man           3         N         1         f         2.440 35 GHz         1.62 dBm         G <t< td=""><td>-49.5 -59.5 Mmm -69.5</td><td>harring</td><td></td><td></td><td></td><td></td><td></td><td>mm</td><td>m_~M~m</td><td><b>Stop Freq</b> 2.445000000 GHz</td></t<>	-49.5 -59.5 Mmm -69.5	harring						mm	m_~M~m	<b>Stop Freq</b> 2.445000000 GHz
MARE Model Hol Still         X         Y         Forchron         Forchro <t< td=""><td>Center 2.4 #Res BW</td><td>440000 GHz 100 kHz</td><td>#<sup>1</sup></td><td>VBW 300 kHz</td><td></td><td></td><td>Sweep 1.</td><td>Span 1 .000 ms (</td><td>0.00 MHz 1001 pts)</td><td>CF Step 1.000000 MHz Auto Man</td></t<>	Center 2.4 #Res BW	440000 GHz 100 kHz	# <sup>1</sup>	VBW 300 kHz			Sweep 1.	Span 1 .000 ms (	0.00 MHz 1001 pts)	CF Step 1.000000 MHz Auto Man
	MXB         Model in f           1         N         1           2         N         1           3         N         1           4         5         -           6         -         -           7         -         -           8         -         -           9         -         -           10         -         11	IC         SCU           I         I	× 440 01 GHz 2.439 64 GHz 2.440 35 GHz	8.10 df 1.57 df 1.62 df						Freq Offset 0 Hz

Product	:	Intel <sup>®</sup> Dual Band Wireless-AC 8260
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2480MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
39	2480	700	>500	Pass

## Figure Channel 39:

Agilent Spe	ctrum Ana	alyzer - Swe	pt SA								
Center	Freq 2	50 Ω 2.48000	AC 0000 GH	z	SEI		Avg Typ	ALIGNAUTO e: Log-Pwr	10:28:42 A	M Apr 14, 2015	Frequency
10 dB/div	Ref Ref	Offset 0.5 7 <b>20.50</b> d	edB Bm	lO: Wide ∟ Gain:Low	#Atten: 3	) dB		Mkr	2 2.479 1.:	65 GHz 52 dBm	Auto Tune
10.5					2	3				1.82 dBm	Center Freq 2.480000000 GHz
-19.5 -29.5 -39.5											<b>Start Freq</b> 2.475000000 GHz
-49.5 -59.5 <mark>\/\</mark> -69.5	~~~~	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Particular and the						mar mar	<b>Stop Freq</b> 2.485000000 GHz
Center : #Res B	2.4800 N 100	00 GHz kHz		#VBV	V 300 kHz			Sweep 1	Span 1 .000 ms (	0.00 MHz 1001 pts)	CF Step 1.000000 MHz Auto Man
1 N 2 N 3 N 4 5 6 7	1 f 1 f 1 f		2.480 02 2.479 64 2.480 34	2 GHz 5 GHz 5 GHz	7.82 dl 1.52 dl 1.76 dl	3m 3m 3m		NUTION WIDTH	FUNCTI		Freq Offset 0 Hz
8 9 10 11 <					III			STATU	s		

## 8. **Power Density**

## 8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2014
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2014
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 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.

## 8.2. Test Setup



## 8.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

#### 8.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2009, the maximum power spectral density using KDB 558074 section 10.2 PKPSD (peak PSD) method.

#### 8.5. Uncertainty

± 1.27 dB



## 8.6. Test Result of Power Density

Product	:	Intel® Dual Band Wireless-AC 8260
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2402MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	7.28	< 8dBm	Pass

## Figure Channel 00:

Agilent Spect	um Analyzer - Swept SA					
Center F	RF 50Ω AC	GH7	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	10:18:49 AM Apr 14, 2015 TRACE 1 2 3 4 5 6	Frequency
oontoi 1	100 2.402000000	PNO: Wide 🖵 IFGain:Low	Trig: Free Run #Atten: 30 dB		TYPE MWWWWW DET PNNNNN	Auto Tupo
10 dB/div	Ref Offset 0.5 dB Ref 20.50 dBm			Mkr1 2.4	102 005 25 GHz 7.28 dBm	Auto Tune
10.5			1			Center Freq 2.402000000 GHz
-9.50						<b>Start Freq</b> 2.401475000 GHz
-19.5						<b>Stop Freq</b> 2.402525000 GHz
-39.5						<b>CF Step</b> 105.000 kHz <u>Auto</u> Man
-59.5						Freq Offset 0 Hz
-69.5						
Center 2.4 #Res BW	4020000 GHz 100 kHz	#VBW	300 kHz	Sweep 1	Span 1.050 MHz .000 ms (1001 pts)	
MSG				STATUS		

Product	:	Intel <sup>®</sup> Dual Band Wireless-AC 8260
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2440MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
19	2440	7.78	< 8dBm	Pass

## Figure Channel 19:

Agilent Spect	rum Analyzer - Swept SA					
Center F	RF 50 Ω AC	GHz	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	10:24:29 AM Apr 14, 2015 TRACE 1 2 3 4 5 6 TYPE M MARAAAAAA	Frequency
10 dB/div	Ref Offset 0.5 dB	IFGain:Low	#Atten: 30 dB	Mkr1 2	.440 003 2 GHz 7.78 dBm	Auto Tune
10.5			1			Center Freq 2.440000000 GHz
-9.50						Start Freq 2.439467500 GHz
-19.5						<b>Stop Freq</b> 2.440532500 GHz
-39.5						CF Step 106.500 kHz <u>Auto</u> Mar
-59.5						Freq Offset 0 Hz
-69.5 Center 2. #Res BW	4400000 GHz 100 kHz	#VBW :	300 kHz	Sweep 1	Span 1.065 MHz .000 ms (1001 pts)	
MSG				STATUS	3	<u>.</u>

Product	:	Intel <sup>®</sup> Dual Band Wireless-AC 8260
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - BLE (GFSK) (2480MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
39	2480	7.35	< 8dBm	Pass

## Figure Channel 39:

Agilent Spect	Agilent Spectrum Analyzer - Swept SA									
LXIRL	RF 50 Ω AC		SENSE:INT	ALIGNAUTO	10:29:00 AM Apr 14, 2015	Frequency				
Center F	req 2.48000000	) GHz	Tria: Free Dun	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Trequency				
		PNO: Wide 🖵 IFGain:Low	#Atten: 30 dB		DET P NNNN					
Ref Offset 0.5 dB				Mkr1 2.4	Auto Tune					
10 dB/div Log	Ref 20.50 dBm				7.35 UBIII					
						Center Fred				
10.5			<b>_</b> 1			2 48000000 CH-				
10.0						2.480000000 GH2				
0.500	and the second sec				h.					
0.000						Start Fred				
0.00						2 479475000 GHz				
-9.50						2				
-19.5						Stop Freq				
						2.480525000 GHz				
-29.5										
-39.5						205 000 kHz				
						Auto Man				
-49.5										
-59.5						Freq Offset				
						0 Hz				
-69.5										
00.0										
Center 2.										
#Res BW	100 kHz	#VBW	300 kHz	Sweep 1	.000 ms (1001 pts)					
MSG STATUS										



## 9. EMI Reduction Method During Compliance Testing

No modification was made during testing.



Attachment 1: EUT Test Photographs



Attachment 2: EUT Detailed Photographs