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# **DFS MEASUREMENT REPORT**

FCC PART 15 Subpart E / WLAN 802.11a/n/ac

FCC ID:	HD5-EDA51K0
Applicant:	Honeywell International Inc
	Honeywell Safety and Productivity Solutions

Application Type:	Certification
Product:	Mobile Computer
Model No.:	EDA51K-0
Brand Name:	Honeywell
FCC Rule Part(s):	Part 15 Subpart E - 15.407 Section (h)(2)
Test Procedure(s):	KDB 905462 D02v02, KDB 905462 D04v01
Type of Device:	Client Device without radar detection
Test Date:	November 19 ~ 20, 2020

Jame Yuan (Jame Yuan) Robin Wu **Reviewed By:** Approved By: TESTING LABORATORY (Robin Wu) CERTIFICATE #3628.01

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 905462 D02v02. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.



# **Revision History**

Report No.	Version	Description	Issue Date	Note
2011RSU005-U5	Rev. 01	Initial Report	11-21-2020	Valid



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### 1. General Information

#### 1.1. Applicant

Honeywell International Inc Honeywell Safety and Productivity Solutions 9680 Old Bailes Road, Fort Mill, SC 29707 United States

#### 1.2. Manufacturer

Honeywell International Inc Honeywell Safety and Productivity Solutions 9680 Old Bailes Road, Fort Mill, SC 29707 United States

#### 1.3. Testing Facility

Image: Test Site – MRT Suzhou Laboratory         Laboratory Location (Suzhou – Wuzhong)			
D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, S	Suzhou, China		
Laboratory Location (Suzhou – SIP)			
4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Ind	dustrial Park, China		
Laboratory Accreditations			
A2LA: 3628.01 CNAS: L10551			
FCC: CN1166 ISED: CN0001			
VCCI: R-20025, G-20034, C-20020, T-20020			
Test Site – MRT Shenzhen Laboratory			
Laboratory Location (Shenzhen)			
1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan D	District, Shenzhen, China		
Laboratory Accreditations			
A2LA: 3628.02 CNAS: L10551			
FCC: CN1284 ISED: CN0105			
Test Site – MRT Taiwan Laboratory			
Laboratory Location (Taiwan)			
No. 38, Fuxing 2 <sup>nd</sup> Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)			
Laboratory Accreditations			
TAF: L3261-190725			
FCC: 291082, TW3261 ISED: TW3261			



### 2. PRODUCT INFORMATION

### 2.1. Equipment Description

Product Name	Mobile Computer
Model No.	EDA51K-0
Qualcomm Chipset	
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Version	v4.2 dual mode
Antenna Delivery	1*T <sub>x</sub> + 1*R <sub>x</sub>
NXP Chipset	
NFC Working Frequency	13.56MHz
Accessories	
USB Adapter	Model No.: ADS-12B-06 05010E
	Input Power: 100 - 240V ~ 50/60Hz, Max. 0.3A
	Output Power: 5VDC 2.0A
Rechargeable Li-ion Battery	Model No.: BAT-EDA50K
	Capacitance: 4000mAh/15.2Wh
	Rated Voltage: 3.8V

### 2.2. Product Specification Subjective to this report

Frequency Range	802.11a/n-HT20/ac-VHT20:
	5260~5320MHz, 5500~5720MHz
	802.11n-HT40/ac-VHT40:
	5270~5310MHz, 5510~5710MHz
	For 802.11ac-VHT80:
	5290MHz, 5530MHz, 5610MHz, 5690MHz
Type of Modulation	802.11a/n/ac: OFDM
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps
	802.11n: up to 150Mbps
	802.11ac: up to 433.3Mbps
Uniform Spreading	For the 5250-5350MHz, 5470-5725 MHz bands, the Master device
	provides, on aggregate, uniform loading of the spectrum across all
	devices by selecting an operating channel among the available channels
	using a random algorithm.



### 2.3. Working Frequencies for this Report

#### 802.11a/n-HT20/ac-VHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260 MHz	56	5280 MHz	60	5300 MHz
64	5320 MHz	100	5500 MHz	104	5520 MHz
108	5540 MHz	112	5560 MHz	116	5580 MHz
120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz
144	5720 MHz				

#### 802.11n-HT40/ac-VHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz	102	5510 MHz
110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	142	5710 MHz		

#### 802.11ac-VHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
58	5290 MHz	106	5530 MHz	122	5610 MHz
138	5690 MHz				

#### 2.4. Test Mode

|--|

#### **2.5.** Test Environment Condition

Ambient Temperature	15 ~ 35 °C
Relative Humidity	20 ~ 75 %RH



### 3. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS

#### 3.1. Applicability

The following table from FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 lists the applicable requirements for the DFS testing.

Requirement	Operational Mode				
	Master Client Without Client With		Client With Radar		
		Radar Detection	Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Table 3-1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode			
	Master Device or Client With Radar Detection	Client Without Radar Detection		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required		

Additional requirements for devices	Master Device or Client	Client Without Radar			
with multiple bandwidth modes	with Radar Detection	Detection			
U-NII Detection Bandwidth and	All BW modes must be	Not required			
Statistical Performance Check	tested				
Channel Move Time and Channel	Test using widest BW	Test using the widest BW			
Closing Transmission Time mode available mode available for the lin					
All other tests Any single BW mode Not required					
Note: Frequencies selected for statistical performance check should include several frequencies					
within the radar detection handwidth and	frequencies near the edge of	the radar detection			

within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

#### Table 3-2: Applicability of DFS Requirements during normal operation



#### 3.2. DFS Devices Requirements

#### Per FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 the following are

#### the requirements for Client Devices:

a) A Client Device will not transmit before having received appropriate control signals from a Master Device.

b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing transmission time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.

c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform.

d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.

e) The client test frequency must be monitored to ensure no transmission of any type has occurred for 30 minutes. Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear.

### Channel Move Time and Channel Closing Transmission Time requirements are listed in the

#### following table.

Parameter	Value				
Non-occupancy period	Minimum 30 minutes				
Channel Availability Check Time	60 seconds				
Channel Move Time	10 seconds				
	See Note 1.				
	200 milliseconds + an aggregate of 60				
Channel Closing Transmission Time	milliseconds over remaining 10 second period.				
	See Notes 1 and 2.				
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission				
	power bandwidth. See Note 3.				
Note 1: Channel Move Time and the Channel Close	sing Transmission Time should be performed with				
Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.					
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the					
beginning of the Channel Move Time plus any add	litional intermittent control signals required to				
facilitate a Channel move (an aggregate of 60 mill	iseconds) during the remainder of the 10 second				



#### transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

#### Table 3-3: DFS Response Requirements

#### 3.3. DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

Maximum Transmit Power	Value				
	(See Notes 1, 2, and 3)				
EIRP ≥ 200 milliwatt	-64 dBm				
EIRP < 200 milliwatt and	-62 dBm				
power spectral density < 10 dBm/MHz					
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm				
requirement					
Note 1: This is the level at the input of the receiver assuming a 0 dBi r	eceive antenna.				
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the					
test transmission waveforms to account for variations in measurement equipment. This will ensure					
that the test signal is at or above the detection threshold level to trigger a DFS response.					
Note 3: EIRP is based on the highest antenna gain. For MIMO devices	s refer to KDB Publication				
662911 D01.					

Table 3-4: Detection Thresholds for Master Devices and Client Devices with Radar Detection



#### 3.4. Parameters of DFS Test Signals

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 3-6 Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\operatorname{Roundup} \left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix}, \\ \begin{pmatrix} \frac{19 \cdot 10^6}{PRI_{usec}} \end{pmatrix} \right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Note 1: Sh			used for the detection ba	80% ndwidth test, chai	120 nnel move

#### Short Pulse Radar Test Waveforms

#### Table 3-5: Parameters for Short Pulse Radar Waveforms



A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

Pulse Repetition Frequency	Pulse Repetition Frequency	Pulse Repetition Interval
Number	(Pulses Per Second)	(Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 3-6: Pulse Repetition Intervals Values for Test A



#### Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50 - 100	5 - 20	1000 - 2000	1 - 3	8 - 20	80%	30

#### Table 3-7: Parameters for Long Pulse Radar Waveforms

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses Per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials	
6	1	333	9	0.333	300	70%	30	

#### Frequency Hopping Radar Test Waveform

#### Table 3-8: Parameters for Frequency Hopping Radar Waveforms

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.





#### 3.5. Conducted Test Setup

The FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup.

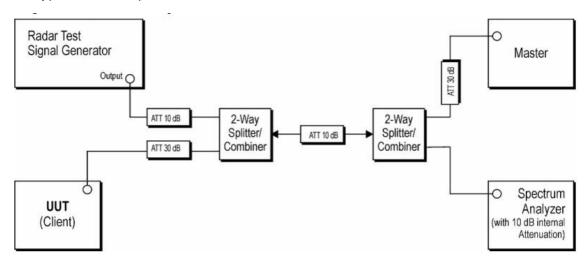


Figure 3-1: Conducted Test Setup where UUT is a Client and Radar Test Waveforms are injected into the Masters



### 4. TEST EQUIPMENT CALIBRATION DATE

Dynamic Frequency Selection - (SIP-SR4)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2021/04/14
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2021/01/08
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2021/04/14
Attenuator	MVE	20dB	MRTSUE06547	1 year	2021/05/20
Attenuator	MVE	6dB	MRTSUE06532	1 year	2021/05/20
Attenuator	MVE	10dB	MRTSUE06540	1 year	2021/05/20
Vector Signal Generator	Agilent	E4438C	MRTSUE06026	1 year	2021/10/22
Vector Signal Generator	R&S	SMBV100A	MRTSUE06279	1 year	2021/04/14
Thermal Hygrometer	testo	608-H1	MRTSUE06222	1 year	2021/10/25

Access Point Information

Instrument	Manufacturer Ty		FCC ID
Access Point	HAN Networks Co., Ltd	AP211	2ALJ3AP211

Software	Version	Manufacturer	Function
Pulse Building	N/A	Agilent	Radar Signal Generation Software
DFS Tool	V 6.9.2	Agilent	DFS Test Software



### 5. TEST RESULT

### 5.1. Summary

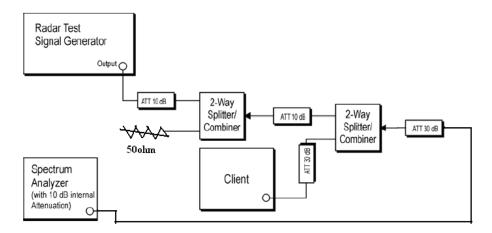
Parameter	Limit	Test Result	Reference
Channel Move Time, Channel Closing			
Transmission Time and Non-Occupancy	Refer Table 3-3	Pass	Section 5.4
Period Measurement			

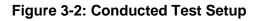


#### 5.2. Radar Waveform Calibration

#### 5.2.1.Calibration Setup

The conducted test setup was used for this calibration testing. Figure 3-2 shows the typical test setup.





#### 5.2.2.Calibration Procedure

The Interference Radar Detection Threshold Level is (-64dBm) + (0) [dBi] + 1 dB= -63 dBm that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 50ohm terminal form Master and Client device and no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was (-64dBm) + (0) [dBi] + 1 dB= -63dBm. Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.



#### 5.2.3.Cablibration Result

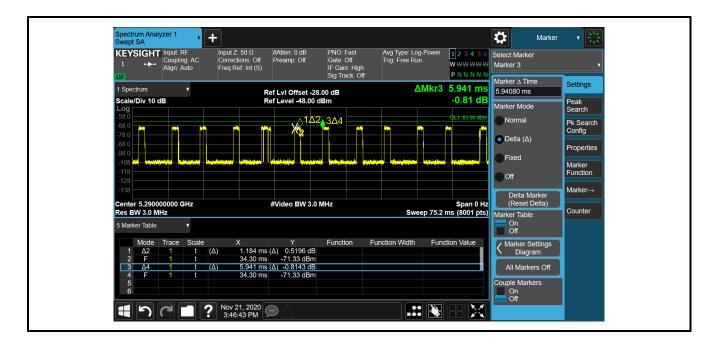
Product	Mobile Computer	Test Site	SIP-SR4
Test Engineer	Chase Zhu	Test Date	2020/11/21
Test Item	Radar Waveform Calibration		

Radar #0			
Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF L Coupling: AC Aign: Auto	Hinput Z: 50 0 #Atten: 0 dB PNO: Fast Corrections: Off Preamp: Off Gale: Off Freq Ref. Int (S) IF Gain: High	Avg Type: Log-Power 1 2 3 4 5 6 Avg Hold >1/1 Trig: Free Run P NN NN N	Center Frequency Settings
1 Spectrum   Scale/Div 10 dB Log	Sig Track: Off Ref Lvi Offset -28.00 dB Ref Level -48.00 dBm	Mkr1 192.4 ms -63,14 dBm	Span 0.00000000 Hz Swept Span Zero Span
-58.0	j1	DL1-63.00 dBm	Full Span Start Freq 5.290000000 GHz
-88.0 -98.0			Stop Freq 5.290000000 GHz AUTO TUNE
-108 -118 -128			CF Step 3.000000 MHz Auto Man
-138 Center 5.290000000 GHz Res BW 3.0 MHz	#Video BW 3.0 MHz		Freq Offset 0 Hz X Axis Scale Log Lin
	? Nov 21, 2020 🗩 🛆		Signal Track (Span Zoom)



#### 5.3. Channel Loading Test Result

Product	Mobile Computer	Test Site	SIP-SR4
Test Engineer	Chase Zhu	Test Date	2020/11/21
Test Item	Channel Loading (802.11ac-VHT80 mode - 5290MHz)		



Test Mode	Test Frequency	Packet ratio	Requirement ratio	Test Result
802.11ac-VHT80 5290 MHz 19.93% ≥ 17% Pass				
Note: System testing was performed with the designated iperf test file. This file is used by IP and				
Frame based systems for loading the test channel during the In-service compliance testing of the				
U-NII device. Packet ratio = Time On / (Time On + Off Time).				



### 5.4. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Measurement

#### 5.4.1.Test Limit

The EUT has In-Service Monitoring function to continuously monitor the radar signals. If the radar is detected, must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of Channel Closing Transmission Time is 260ms, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time. The Non-Occupancy Period time is 30 minutes during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

#### 5.4.2.Test Procedure Used

1. The test should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0.

 When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will associate with the Client Device at Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.
 Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time).

3. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (1.5ms) = S (12 sec) / B (8000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: 80MHz: C = N X Dwell; where C is the Closing Time, N is the number of spectrum analyzer sampling bins showing a U-NII transmission and Dwell is the dwell time per bin.

4. Measure the UUT for more than 30 minutes following the channel close/move time to verify that the UUT does not resume any transmissions on this Channel.



#### 5.4.3.Test Result

Product	Mobile Computer	Test Site	SIP-SR4	
Test Engineer	Chase Zhu	Test Date	2020/11/21	
To a fall a se	Channel Move Time and Channel Closing Transmission Time			
Test Item	(802.11ac-VHT80 mode - 5290MHz)			



Parameter	Test Result	Limit		
	Туре 0			
Channel Move Time (s)	0.4995s	<10s		
Channel Closing Transmission Time (ms)	4.5ms	< 60ms		
(Note)	4.5015			
Non-Occupancy Period (min)	≥ 30min	≥ 30min		
Note: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the				
beginning of the Channel Move Time plus any additional intermittent control signals required to				
facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds				
period. The aggregate duration of control signals will not count quiet periods in between				
transmissions.				



### 6. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part

15E of the FCC Rules.

The End



# Appendix A - Test Setup Photograph

Refer to "2011RSU005-UT" file.



# Appendix B - EUT Photograph

Refer to "2011RSU005-UE" file.