

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C AND CANADIAN RSS 210 ISSUE 8
REQUIREMENTS**

OF

Nextbook

MODEL No.: NXW8QC16G, NXA8QC116, NXA8QC116B, NXA8QC116R

FCC ID: S7JNXW8QC16G

IC ID:8082A-NXW8QC16G

Trademark: N/A

REPORT NO: ES140723254E4-1

ISSUE DATE: March 23, 2015

Prepared for

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Prepared by

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VERIFICATION OF COMPLIANCE

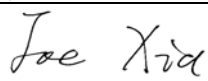
Applicant:	SHENZHEN YIFANG DIGITAL TECHNOLOGY CO., LTD. Building NO.22,23, Fifth Region, Baiwangxin Industrial Park, Songbai Rd., Nanshan, Shenzhen 518108, China
Manufacturer:	SHENZHEN YIFANG DIGITAL TECHNOLOGY CO., LTD. Building NO.22,23, Fifth Region, Baiwangxin Industrial Park, Songbai Rd., Nanshan, Shenzhen 518108, China
Product Description:	Nextbook
Model Number:	NXW8QC16G, NXA8QC116, NXA8QC116B, NXA8QC116R (Note: These models are identical in circuitry and electrical, mechanical and physical construction; the only differences are the silk-screen, color and model no. for trading purpose. We prepare NXW8QC16G for test, and the worst result recorded in the report.)
File Number:	ES140723254E4-1
Date of Test:	July 23, 2014 to July 31, 2014 March 16, 2015 to March 23, 2015

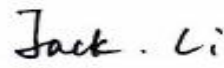
We hereby certify that:

The above equipment was tested by SHENZHEN EMTEK CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247 and Canadian RSS 210 ISSUE 8 REQUIREMENTS

The test results of this report relate only to the tested sample identified in this report.

Date of Test : July 23, 2014 to July 31, 2014
March 16, 2015 to March 23, 2015

Prepared by : 
 Joe Xia/Editor

Reviewer : 
 Jack Li/Supervisor

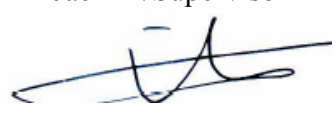
Approve & Authorized Signer : 
 Lisa Wang/Manager

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Modification History

Ver.	Report No.	Date of Rev.	Summary
Ver 1.0	ES140723325E2	/	Original Report
Ver 1.1	ES140723325E4-1	March 23, 2015	Add Adapter Add model number

1. General Information

1.1 Product Description

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: Bluetooth: 2402-2480MHz,
 WIFI 802.11b/g/n HT20: 2412-2462MHz;
 WIFI 802.11n HT40: 2422-2452MHz
- B). Modulation: GFSK
 OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n,
 DSSS with DBPSK/DQPSK/CCK for 802.11b
- C). Number of Channel: 802.11b/g/ n HT20: 11Channels;
 802.11n HT40: 9 Channels;
 BT: 40 Channels;
- D).Conducted Power:1.73dBm
- E) Antenna Gain: 0dBi
- F). Antenna Type: PCB Antenna
- G). Bluetooth Verison: Bluetooth V4.0 BLE(Signal)
- H). Power Supply: DC 5V with AC Adapter and DC 3.7V from Li-ion Battery.
- I). Adapter 1: Model:HNEG050200UU
 Input: AC 100-240V, 50/60Hz, 0.35A MAX
 Output: DC 5.0V, 2.0A
- J). Adapter 2: Model:PS10E050K2000EU
 Input: AC 100-240V, 50/60Hz, 0.35A
 Output: DC 5.0V, 2.0A
- Adapter 3: Model: HNEB050150UX
 Input: AC 100-240V, 50/60Hz, 0.35A
 Output: DC 5.0V, 1.5A

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	15	2430	29	2458
2	2404	16	2432	30	2460
3	2406	17	2434	31	2462
4	2408	18	2436	32	2464
5	2410	19	2438	33	2466
6	2412	20	2440	34	2468
7	2414	21	2442	35	2470
8	2416	22	2444	36	2472
9	2418	23	2446	37	2474
10	2420	24	2448	38	2476
11	2422	25	2450	39	2478
12	2424	26	2452	40	2480
13	2426	27	2454		
14	2428	28	2456		

Note:

1. This device is Nextbook included BT4.0 transceiver function.

2. Test of channel was included the lowest middle and highest frequency in lowest data rate and to perform the test, then record on this report.

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: S7JNXW8QC16G filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules and also intended for IC ID:8082A-NXW8QC16G filing to comply with Canadian RSS 210 Issue 8.0. The composite system is compliance with Subpart B is authorized under a DOC procedure.

1.3 Test Methodology

All the test program has follow FCC new test procedure KDB558074 D01 v03r01, Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2009). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2013.10.29
The certificate is valid until 2016.10.28
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01: 2006(identical to ISO/IEC17025: 2005)
The Certificate Registration Number is L2291

Accredited by TUV Rheinland Shenzhen 2010.5.25
The Laboratory has been assessed according to the requirements ISO/IEC 17025

Accredited by FCC, April 17, 2013
The Certificate Registration Number is 406365.

Accredited by Industry Canada, March 05, 2010
The Certificate Registration Number is 46405-4480.

Name of Firm : SHENZHEN EMTEK CO., LTD.
Site Location : Bldg 69, Majialong Industry Zone,
Nanshan District, Shenzhen, Guangdong, China

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements of ANSI C63.4-2009 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. Emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

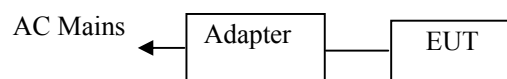


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	IC ID	Series No.	Note
1.	Nextbook	N/A	NXW8QC16G	S7JNXW8QC1 6G	8082A-NXW8QC1 6G	N/A	EUT

Note:

- (1) Unless otherwise denoted as EUT in 『Remark』 column, device(s) used in tested system is a support equipment.

3. Description of Test Modes

The Transmitter of EUT is an Internet Tablet and powered by host equipment; these is Digital Transmission system (DTS) and with modulation GFSK.

The mode is used: **Transmitting mode**

1. For lowest channel : 2402MHz (Channel 01)
2. For middle channel : 2440MHz (Channel 20)
3. For highest channel: 2480MHz (Channel 40)

4. Summary of Test Results

FCC Rules	IC Rule	Description Of Test	Result
§15.247(a)(2)	RSS-210, A8.2(a)	6dB bandwidth	Pass
§15.247(b)(3)	RSS-210, A8.4(2)	Max Peak output Power test	Pass
§15.247(e)	RSS-210, A8.2(b)	Power density	Pass
§15.247(d)	RSS-210, A2.9, A8.5	Band edge test	Pass
§15.207	RSS-GEN, Section 7.2.2	AC Power Conducted Emission	Pass*
§15.247(d), §15.209	RSS-210, A2.9, A8.5	Radiated Emission	Pass*
§15.247(d)	RSS-210, A8.5 RSS-GEN, Section 7.2.3	Antenna Port Emission	Pass
§15.247(b)&§15.203	N/A	Antenna Application	Pass
N/A	RSS-210, A1.1.3	99%dB Bandwidth	Pass

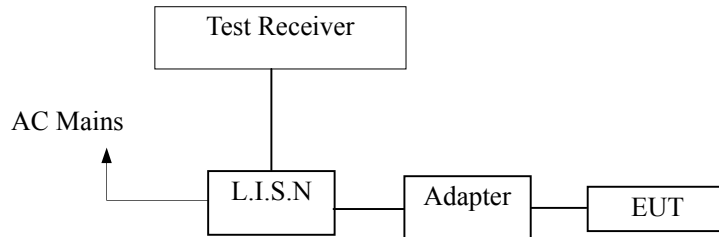
Remark*: Original test data for adapter 1 and 2, also adding test result for adapter 3.

Conducted Emissions Test

5.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	05/17/2014	05/16/2015
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	05/17/2014	05/16/2015
50Ω Coaxial Switch	Anritsu	MP59B	M20531	N/A	N/A
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	05/17/2014	05/16/2015
Voltage Probe	Rohde & Schwarz	TK9416	N/A	05/17/2014	05/16/2015
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	05/17/2014	05/16/2015

5.4 Conducted Emission Limit

Conducted Emission

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

- Note:** 1. The lower limit shall apply at the transition frequencies
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.5 Measurement Result

Date of Test: July 25, 2014 Temperature: 22°C
 Frequency Detector: 0.15~30MHz Humidity: 50%
 Test Result: PASS Test Mode: TX Mode(Adapter 1)
 Note: Original test data for adapter 1

Test Line	Frequency MHz	Emission Level QP dB(μV)	Emission Level AV dB(μV)	Limits QP dB(μV)	Limits AV dB(μV)	Over QP dB(μV)	Over AV dB(μV)
Line	0.16	58.22	39.74	65.36	55.36	-7.14	-15.62
	0.19	54.41	34.21	64.21	54.21	-9.80	-20.00
	0.21	51.38	33.17	63.05	53.05	-11.67	-19.88
	0.24	49.32	33.07	62.03	52.03	-12.71	-18.96
	0.47	48.86	36.01	56.51	46.51	-7.65	-10.50
	0.95	46.40	30.28	56.00	46.00	-9.60	-15.72
Neutral	0.16	53.26	35.57	65.36	55.36	-12.10	-19.79
	0.19	49.43	29.90	64.04	54.04	-14.61	-24.14
	0.22	46.05	29.36	62.89	52.89	-16.84	-23.53
	0.48	49.05	37.19	56.37	46.37	-7.32	-9.18
	0.75	46.79	31.95	56.00	46.00	-9.21	-14.05
	0.94	46.72	31.23	56.00	46.00	-9.28	-14.77

Date of Test: July 25, 2014 Temperature: 22°C
 Frequency Detector: 0.15~30MHz Humidity: 50%
 Test Result: PASS Test Mode: TX Mode(Adapter 2)
 Note: Original test data for adapter 2

Test Line	Frequency MHz	Emission Level QP dB(μV)	Emission Level AV dB(μV)	Limits QP dB(μV)	Limits AV dB(μV)	Over QP dB(μV)	Over AV dB(μV)
Line	0.16	50.92	36.51	65.36	55.36	-14.44	-18.85
	0.21	44.54	31.86	63.37	53.37	-18.83	-21.51
	0.24	41.25	26.75	62.03	52.03	-20.78	-25.28
	0.29	37.55	27.34	60.52	50.52	-22.97	-23.18
	0.96	36.12	17.36	56.00	46.00	-19.88	-28.64
	23.94	34.54	32.45	60.00	50.00	-25.46	-17.55
Neutral	0.16	54.93	43.22	65.57	55.57	-10.64	-12.35
	0.20	50.01	35.18	63.69	53.69	-13.68	-18.51
	0.24	45.48	32.76	62.17	52.17	-16.69	-19.41
	0.29	43.59	27.74	60.64	50.64	-17.05	-22.90
	0.32	41.60	27.13	59.76	49.76	-18.16	-22.63
	0.37	40.11	25.05	58.59	48.59	-18.48	-23.54

Date of Test: March 18, 2015 Temperature: 20°C
 Frequency Detector: 0.15~30MHz Humidity: 55%
 Test Result: PASS Test Mode: TX Mode(Adapter 3)
 Note: New test result for adapter 3

Test Line	Frequency MHz	Emission Level QP dB(μV)	Emission Level AV dB(μV)	Limits QP dB(μV)	Limits AV dB(μV)	Over QP dB(μV)	Over AV dB(μV)
Line	0.16	52.05	33.1	65.46	55.46	-13.41	-22.36
	0.215	45.25	26.96	63.01	53.01	-17.76	-26.05
	0.26	41.89	26.9	61.43	51.43	-19.54	-24.53
	0.31	39.58	29.65	59.97	49.97	-20.39	-20.32
	0.41	37.71	28.03	57.65	47.65	-19.94	-19.62
	0.495	39.75	29.14	56.08	46.08	-16.33	-16.94
Neutral	0.21	43.56	27.23	63.21	53.21	-19.65	-25.98
	0.26	41.5	27.17	61.43	51.43	-19.93	-24.26
	0.31	44.24	31.43	59.97	49.97	-15.73	-18.54
	0.41	36.69	26.87	57.65	47.65	-20.96	-20.78
	0.465	41.77	30.42	56.6	46.6	-14.83	-16.18
	0.16	52.05	33.1	65.46	55.46	-13.41	-22.36

5. Radiated Emission Test

6.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured was complete.

When spectrum scanned from 30 MHz to 1GHz setting resolution bandwidth 120 kHz and video bandwidth 300kHz.

EMI Test Receiver	Setting
Attenuation	Auto
RB	120kHz
VB	300kHz
Detector	QP
Trace	Max hold

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 3MHz.

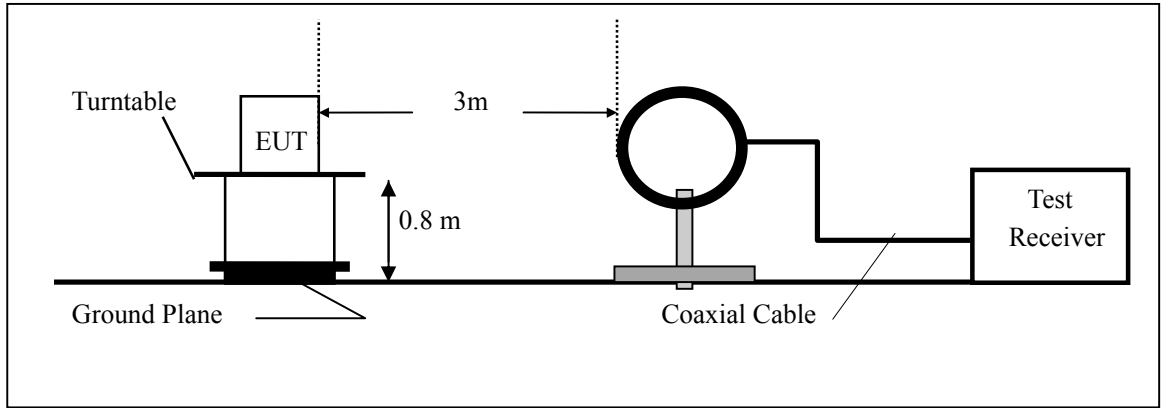
EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	3MHz
Detector	Peak
Trace	Max hold

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 10Hz.

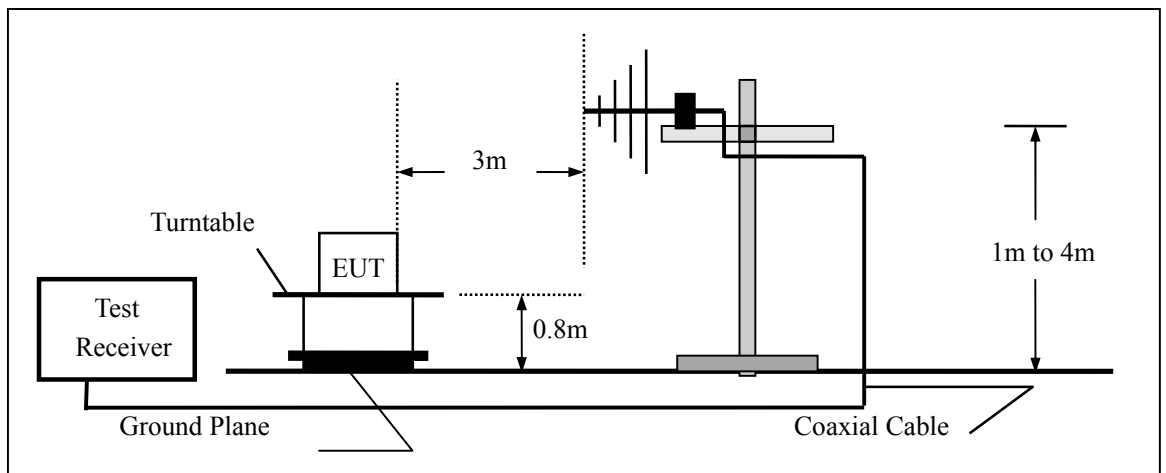
EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	10Hz
Detector	AVG
Trace	Max hold

6.2 Test SET-UP (Block Diagram of Configuration)

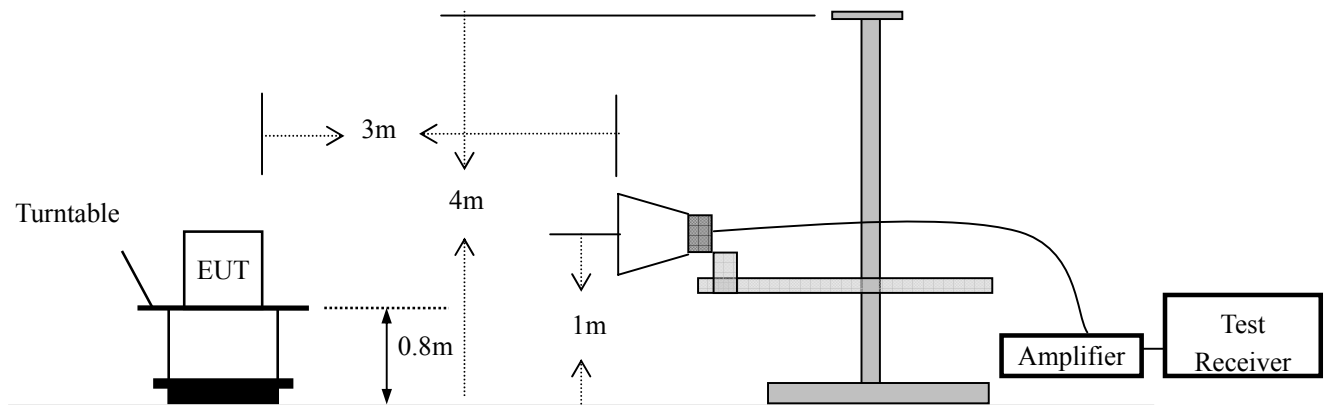
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



6.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/17/2014	05/16/2015
Pre-Amplifier	HP	8447D	2944A07999	05/17/2014	05/16/2015
Bilog Antenna	Schwarzbeck	VULB9163	142	05/17/2014	05/16/2015
Loop Antenna	ARA	PLA-1030/B	1029	05/17/2014	05/16/2015
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/17/2014	05/16/2015
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/17/2014	05/16/2015
Cable	Schwarzbeck	AK9513	ACRX1	05/17/2014	05/16/2015
Cable	Rosenberger	N/A	FP2RX2	05/17/2014	05/16/2015
Cable	Schwarzbeck	AK9513	CRPX1	05/17/2014	05/16/2015
Cable	Schwarzbeck	AK9513	CRRX2	05/17/2014	05/16/2015

6.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequencies (MHz)	Field Strength (micovolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

- Remark:
1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

6.5 Measurement Result

Operation Mode: TX Mode Test Date : July 25, 2014
 Frequency Range: 0.009~30MHz Temperature : 26°C
 Test Result: PASS Humidity : 60 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)
--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

Operation Mode: TX Channel 01 Test Date : July 25, 2014
 Frequency Range: 30~1000MHz Temperature : 26°C
 Test Result: PASS Humidity : 60 %
 Measured Distance: 3m Test By: WOLF

Note: Original test data for adapter 1

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
33.11	V	27.55	40.00	-12.45	QP
45.55	V	27.80	40.00	-12.20	QP
85.96	V	19.23	40.00	-20.77	QP
132.60	V	22.83	43.50	-20.67	QP
171.46	V	22.82	43.50	-20.68	QP
210.32	V	22.28	43.50	-21.22	QP
45.55	H	18.49	40.00	-21.51	QP
103.06	H	21.26	43.50	-22.24	QP
151.25	H	20.31	43.50	-23.19	QP
207.21	H	26.70	43.50	-16.80	QP
250.74	H	25.20	46.00	-20.80	QP
356.44	H	24.43	46.00	-21.57	QP

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT stood on the table position is the worst case result in the report.

Operation Mode: TX Channel 20 Test Date : July 25, 2014
 Frequency Range: 30~1000MHz Temperature : 26°C
 Test Result: PASS Humidity : 60 %
 Measured Distance: 3m Test By: WOLF
 Note: Original test data for adapter 1

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
33.11	V	27.54	40.00	-12.46	QP
45.55	V	27.48	40.00	-12.52	QP
137.26	V	21.03	43.50	-22.47	QP
168.35	V	21.77	43.50	-21.73	QP
207.21	V	22.78	43.50	-20.72	QP
415.51	V	22.33	46.00	-23.67	QP
45.55	H	18.78	40.00	-21.22	QP
103.06	H	20.57	43.50	-22.93	QP
154.36	H	20.60	43.50	-22.90	QP
214.98	H	26.53	43.50	-16.97	QP
250.74	H	24.99	46.00	-21.01	QP
354.89	H	25.45	46.00	-20.55	QP

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT stood on the table position is the worst case result in the report.

Operation Mode: TX Channel 40 Test Date : July 25, 2014
 Frequency Range: 30~1000MHz Temperature : 26°C
 Test Result: PASS Humidity : 60 %
 Measured Distance: 3m Test By: WOLF
 Note: Original test data for adapter 1

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
33.11	V	24.01	40.00	-15.99	QP
45.55	V	27.48	40.00	-12.52	QP
96.84	V	17.25	43.50	-26.25	QP
129.49	V	20.96	43.50	-22.54	QP
177.68	V	21.12	43.50	-22.38	QP
409.30	V	19.35	46.00	-26.65	QP
45.55	H	19.79	40.00	-20.21	QP
112.39	H	18.26	43.50	-25.24	QP
210.32	H	23.26	43.50	-20.24	QP
246.07	H	26.62	46.00	-19.38	QP
264.73	H	24.55	46.00	-21.45	QP
333.13	H	23.11	46.00	-22.89	QP

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT stood on the table position is the worst case result in the report.

Operation Mode: TX Channel 01 Test Date : July 25, 2014
 Frequency Range: 30~1000MHz Temperature : 26°C
 Test Result: PASS Humidity : 60 %
 Measured Distance: 3m Test By: WOLF
 Note: Original test data for adapter 2

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
31.55	V	27.34	40.00	-12.66	QP
45.55	V	32.26	40.00	-7.74	QP
61.09	V	20.00	40.00	-20.00	QP
174.57	V	29.66	43.50	-13.84	QP
211.88	V	23.18	43.50	-20.32	QP
275.61	V	23.93	46.00	-22.07	QP
45.55	H	21.79	40.00	-18.21	QP
103.06	H	18.90	43.50	-24.60	QP
159.02	H	30.01	43.50	-13.49	QP
216.54	H	28.52	46.00	-17.48	QP
274.05	H	30.20	46.00	-15.80	QP
350.22	H	28.07	46.00	-17.93	QP

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT stood on the table position is the worst case result in the report.

Operation Mode: TX Channel 20 Test Date : July 25, 2014
 Frequency Range: 30~1000MHz Temperature : 26°C
 Test Result: PASS Humidity : 60 %
 Measured Distance: 3m Test By: WOLF
 Note: Original test data for adapter 2

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBUV/m)	Limit 3m (dBUV/m)	Over (dB)	Note
45.55	V	29.98	40.00	-10.02	QP
59.54	V	20.21	40.00	-19.79	QP
87.52	V	20.06	40.00	-19.94	QP
165.24	V	26.95	43.50	-16.55	QP
211.88	V	22.40	43.50	-21.10	QP
275.61	V	23.90	46.00	-22.10	QP
45.55	H	19.78	40.00	-20.22	QP
99.95	H	19.15	43.50	-24.35	QP
159.02	H	27.28	43.50	-16.22	QP
213.43	H	28.84	43.50	-14.66	QP
267.84	H	30.59	46.00	-15.41	QP
358.00	H	27.57	46.00	-18.43	QP

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT stood on the table position is the worst case result in the report.

Operation Mode: TX Channel 40 Test Date : July 25, 2014
 Frequency Range: 30~1000MHz Temperature : 26°C
 Test Result: PASS Humidity : 60 %
 Measured Distance: 3m Test By: WOLF
 Note: Original test data for adapter 2

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
30.00	V	27.14	40.00	-12.86	QP
45.55	V	29.46	40.00	-10.54	QP
59.54	V	20.22	40.00	-19.78	QP
87.52	V	19.06	40.00	-20.94	QP
176.12	V	27.59	43.50	-15.91	QP
278.72	V	23.99	46.00	-22.01	QP
45.55	H	20.12	40.00	-19.88	QP
99.95	H	18.04	43.50	-25.46	QP
151.25	H	27.20	43.50	-16.30	QP
211.88	H	28.05	43.50	-15.45	QP
267.84	H	30.59	46.00	-15.41	QP
356.44	H	27.43	46.00	-18.57	QP

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT stood on the table position is the worst case result in the report.

Operation Mode: TX Channel 01 Test Date : March 18, 2015
 Frequency Range: 30~1000MHz Temperature : 20°C
 Test Result: PASS Humidity : 55 %
 Measured Distance: 3m Test By: KK
 Note: New test result for adapter 3

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBUV/m)	Limit 3m (dBUV/m)	Over (dB)	Note
77.17	V	30.95	40.00	-9.05	QP
91.17	V	35.87	43.50	-7.63	QP
106.71	V	23.61	43.50	-19.89	QP
220.19	V	33.27	46.00	-12.73	QP
257.50	V	26.79	46.00	-19.21	QP
321.23	V	27.54	46.00	-18.46	QP
91.17	H	25.40	43.50	-18.10	QP
148.68	H	22.51	43.50	-20.99	QP
204.64	H	33.62	43.50	-9.88	QP
262.16	H	32.13	46.00	-13.87	QP
319.67	H	33.81	46.00	-12.19	QP
395.84	H	31.68	46.00	-14.32	QP

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT stood on the table position is the worst case result in the report.

Operation Mode: TX Channel 20 Test Date : March 18, 2015
 Frequency Range: 30~1000MHz Temperature : 20°C
 Test Result: PASS Humidity : 55 %
 Measured Distance: 3m Test By: KK
 Note: New test result for adapter 3

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
82.09	V	32.89	40.00	-7.11	QP
96.08	V	23.12	43.50	-20.38	QP
124.06	V	22.97	43.50	-20.53	QP
201.78	V	29.86	43.50	-13.64	QP
248.42	V	25.31	46.00	-20.69	QP
312.15	V	26.81	46.00	-19.19	QP
82.09	H	22.69	40.00	-17.31	QP
136.49	H	22.06	43.50	-21.44	QP
195.56	H	30.19	43.50	-13.31	QP
249.97	H	31.75	46.00	-14.25	QP
304.38	H	33.50	46.00	-12.50	QP
394.54	H	30.48	46.00	-15.52	QP

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT stood on the table position is the worst case result in the report.

Operation Mode: TX Channel 40 Test Date : March 18, 2015
 Frequency Range: 30~1000MHz Temperature : 20°C
 Test Result: PASS Humidity : 55 %
 Measured Distance: 3m Test By: KK
 Note: New test result for adapter 3

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
99.54	V	29.28	43.50	-14.22	QP
115.09	V	31.60	43.50	-11.90	QP
129.08	V	22.36	43.50	-21.14	QP
157.06	V	21.20	43.50	-22.30	QP
245.66	V	29.73	46.00	-16.27	QP
348.26	V	26.13	46.00	-19.87	QP
115.09	H	22.26	43.50	-21.24	QP
169.49	H	20.18	43.50	-23.32	QP
220.79	H	29.34	46.00	-16.66	QP
281.42	H	30.19	46.00	-15.81	QP
337.38	H	32.73	46.00	-13.27	QP
425.98	H	29.57	46.00	-16.43	QP

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT stood on the table position is the worst case result in the report.

Operation Mode: TX Channel 01 Test Date : July 25, 2014
 Frequency Range: 1GHz~25GHz Temperature : 26°C
 Test Result: PASS Humidity : 60 %
 Measured Distance: 3m Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1379.98	V	47.55	28.35	74.00	54.00	-26.45	-25.65
4542.65	V	50.04	30.67	74.00	54.00	-23.96	-23.33
8000.16	V	50.68	31.64	74.00	54.00	-23.32	-22.36
10506.49	V	51.47	32.61	74.00	54.00	-22.53	-21.39
13424.08	V	52.73	33.19	74.00	54.00	-21.27	-20.81
16745.28	V	51.83	32.53	74.00	54.00	-22.17	-21.47
4567.45	H	50.06	31.35	74.00	54.00	-23.94	-22.65
6585.92	H	50.58	31.33	74.00	54.00	-23.42	-22.67
7182.86	H	51.42	32.45	74.00	54.00	-22.58	-21.55
10070.62	H	52.31	33.72	74.00	54.00	-21.69	-20.28
14459.32	H	52.54	33.80	74.00	54.00	-21.46	-20.20
17971.27	H	51.56	33.45	74.00	54.00	-22.44	-20.55

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

- Note:** (1) All Readings are Peak Value and AV.
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Operation Mode:	TX Channel 20	Test Date : July 25, 2014
Frequency Range:	1GHz~25GHz	Temperature : 26°C
Test Result:	PASS	Humidity : 60 %
Measured Distance:	3m	Test By: WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
7046.72	V	51.78	33.45	74.00	54.00	-22.22	-20.55
8874.47	V	51.30	32.56	74.00	54.00	-22.70	-21.44
10915.29	V	52.15	32.42	74.00	54.00	-21.85	-21.58
14541.10	V	52.95	34.50	74.00	54.00	-21.05	-19.50
16420.92	V	52.53	33.31	74.00	54.00	-21.47	-20.69
17971.41	V	53.36	34.46	74.00	54.00	-20.64	-19.54
4733.43	H	51.22	33.22	74.00	54.00	-22.78	-20.78
10397.68	H	52.46	32.78	74.00	54.00	-21.54	-21.22
12958.55	H	52.54	33.56	74.00	54.00	-21.46	-20.44
14513.89	H	53.89	34.54	74.00	54.00	-20.11	-19.46
16529.94	H	52.30	33.51	74.00	54.00	-21.70	-20.49
17971.32	H	52.45	34.31	74.00	54.00	-21.55	-19.69

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Operation Mode:	TX Channel 40	Test Date :	July 25, 2014
Frequency Range:	1GHz~25GHz	Temperature :	26°C
Test Result:	PASS	Humidity :	60 %
Measured Distance:	3m	Test By:	WOLF

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
7346.42	V	52.09	32.79	74.00	54.00	-21.91	-21.21
7975.42	V	52.56	33.09	74.00	54.00	-21.44	-20.91
11187.75	V	52.03	33.55	74.00	54.00	-21.97	-20.45
12822.33	V	53.09	33.95	74.00	54.00	-20.91	-20.05
14868.05	V	53.58	34.69	74.00	54.00	-20.42	-19.31
17265.52	V	52.76	33.64	74.00	54.00	-21.24	-20.36
4867.16	H	50.58	31.52	74.00	54.00	-23.42	-22.48
7893.61	H	52.22	32.85	74.00	54.00	-21.78	-21.15
9852.73	H	53.05	33.70	74.00	74.00	-20.95	-40.30
12985.65	H	53.02	34.29	74.00	54.00	-20.98	-19.71
14595.56	H	53.40	33.84	74.00	54.00	-20.60	-20.16
16554.58	H	52.39	33.36	74.00	54.00	-21.61	-20.64

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

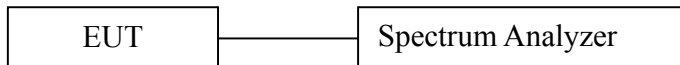
- Note:**
- (1) All Readings are Peak Value and AV.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

6. 6dB Bandwidth Test and 99% Bandwidth Test

7.1 Measurement Procedure

1. The testing follows FCC KDB Publication No. 558074 DTS 001 Meas. Guidance v03r02
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously
4. Make the measurement with the spectrum analyzer 's resolution bandwidth (RBW) = 100 kHz.Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement The 6dB bandwidth must be greater than 500 kHz
5. Measure and record the results in the test report.

7.2 Test SET-UP (Block Diagram of Configuration)



7.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Signal Analyzer	Agilent	N9010A	My53470879	05/17/2014	05/16/2015

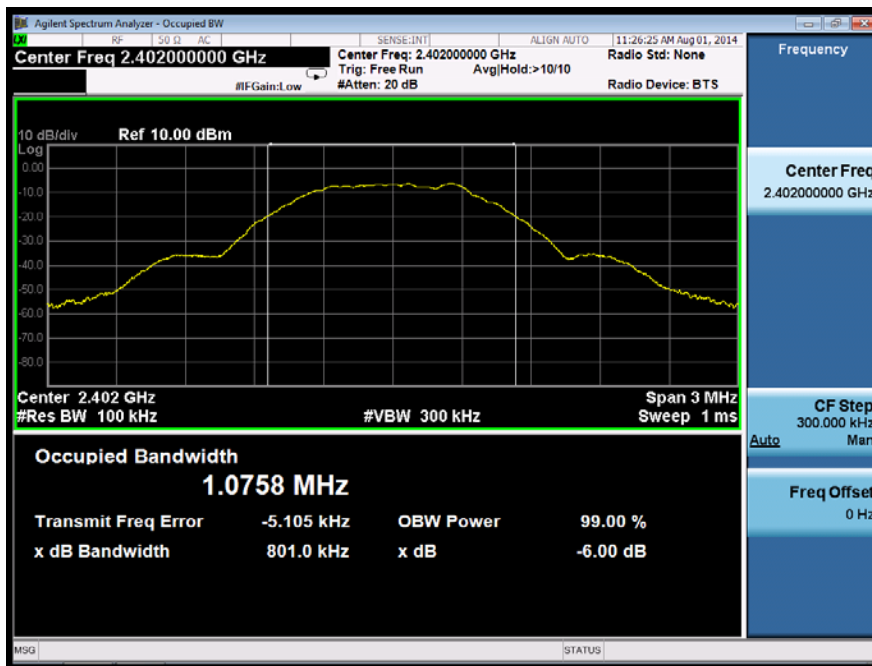
7.4 Measurement Results

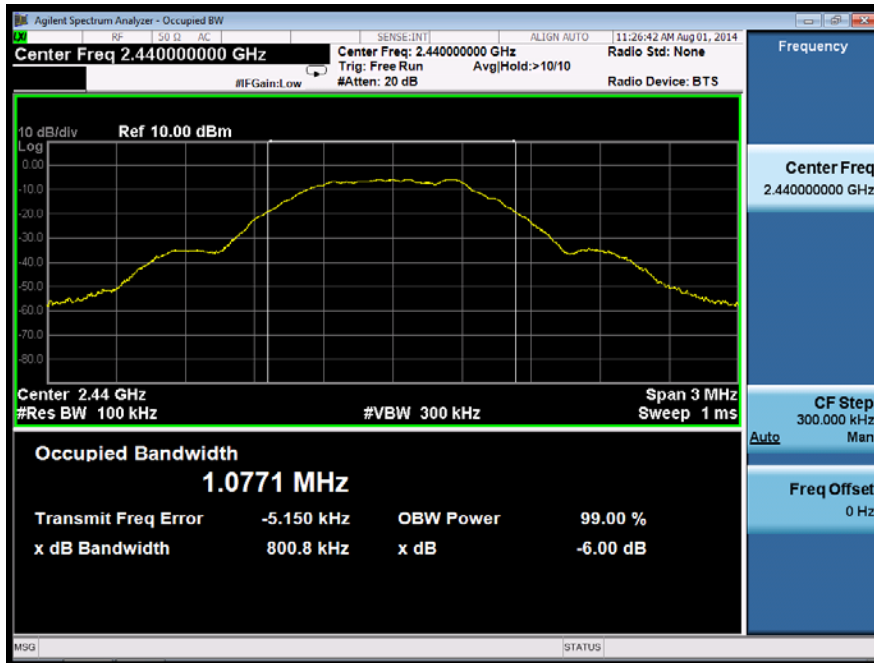
6db Bandwidth Test Data Chart and 99% Bandwidth Test Data Chart:
Refer to attached data chart.

6db Bandwidth Test

Spectrum Detector:	PK	Test Date :	July 25, 2014
Test By:	Jack	Temperature :	26°C
Test Result:	PASS	Humidity :	60 %

Channel number	Channel frequency (MHz)	Measurement level (KHz)	Mode
01	2402	801.0	6db Bandwidth
20	2440	800.8	6db Bandwidth
40	2480	799.0	6db Bandwidth

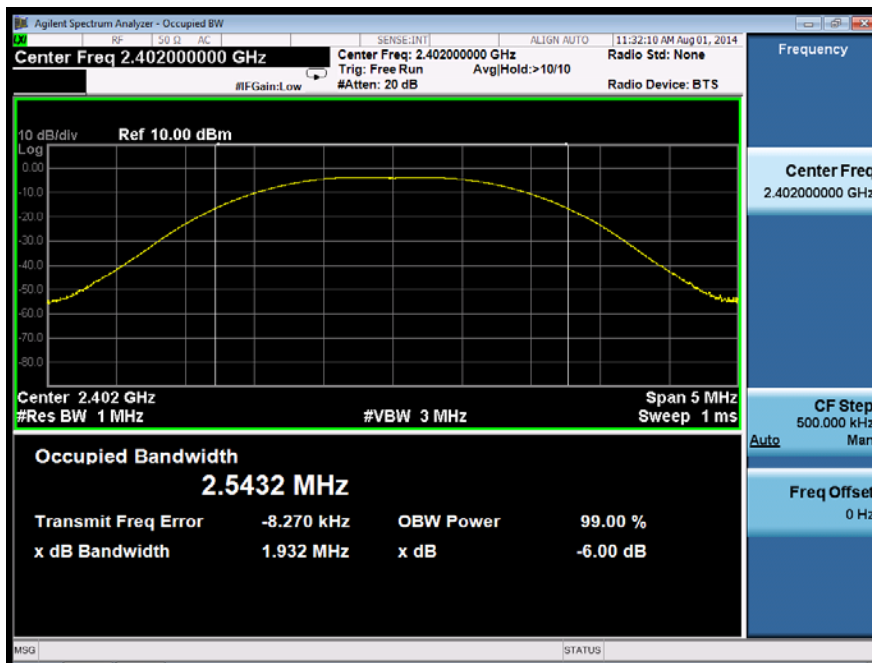


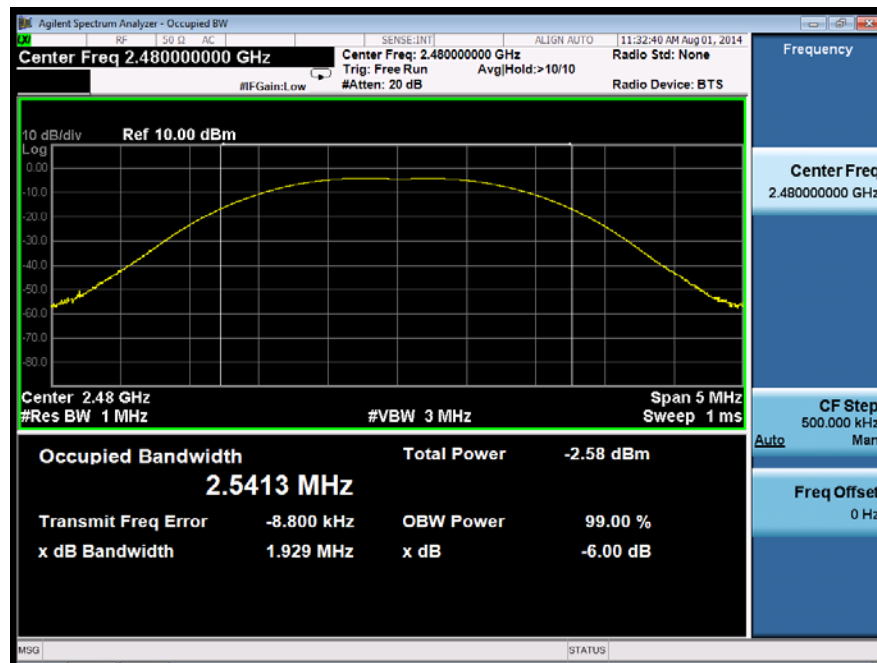


99% Bandwidth Test

Spectrum Detector: PK Test Date : July 25, 2014
 Test By: Andy Temperature : 28°C
 Test Result: PASS Humidity : 65 %
 Operation Mode: GFSK

Channel number	Channel frequency (MHz)	Measurement level (MHz)	Mode
01	2402	2.5432	99% Bandwidth Test
20	2440	2.5400	99% Bandwidth Test
40	2480	2.5413	99% Bandwidth Test





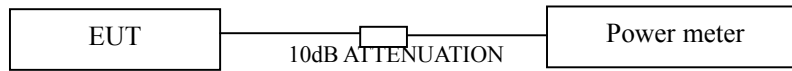
7. Maximum Peak Output Power Test

8.1 Measurement Procedure

The maximum peak conducted output power can be measured using a broadband peak RF power meter. The power meter must have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast, average-responding diode type sensor.

- a. The Transmitter output (antenna port) was connected to the power meter.
- b. Turn on the EUT and power meter and then record the peak power value.
- c. Repeat above procedures on all channels needed to be tested.

8.2 Test SET-UP (Block Diagram of Configuration)



8.3 Measurement Equipment Used

EQUIPMENT TYPE	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power meter	ML2495A	0824006	05/17/2014	05/16/2015
Power sensor	MA2411B	0738172	05/17/2014	05/16/2015

8.4 Peak Power output limit

The maximum peak power shall be less 1Watt.

8.5 Measurement Results

Spectrum Detector:	PK	Test Date :	July 25, 2014
Test By:	Jack	Temperature :	26°C
Test Result:	PASS	Humidity :	60 %
Modulation:	GFSK		

Channel number	Channel Frequency(MHz)	Peak Power output(dBm)	Peak Power Limit(W)	Pass/Fail
01	2402	1.25	1W(30dBm)	PASS
20	2440	1.73	1W(30dBm)	PASS
40	2480	1.00	1W(30dBm)	PASS

8. Band Edge Test

9.1 Measurement Procedure

1. The EUT was Operating in hopping mode or could be controlled its channel. Printed out test result from the spectrum by hard copy function.
2. The EUT was placed on a turn table which is 0.8m above ground plane.
3. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
4. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Repeat above procedures until all frequency measured were complete.

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 3MHz.

EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	3MHz
Detector	Peak
Trace	Max hold

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 10Hz.

EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	10Hz
Detector	AVG
Trace	Max hold

9.2 Test SET-UP (Block Diagram of Configuration)

As 6.2 Test set up (B) and (C)

9.3 Measurement Equipment Used

Same as 6.3 Radiated Emission Measurement.

9.4 Measurement Results

Spectrum Detector: PK/AV Test Date : July 25, 2014
 Test By: Jack Temperature : 26°C
 Test channel: 01 Humidity : 60 %

Frequency (MHz)	Polarity	Level (dBuV/m)		Limited (dBuV/m)	
		PK	AV	PK	AV
2322	H	55.39	40.31	74	54
2357	V	55.66	40.33	74	54

Spectrum Detector: PK/AV Test Date : July 25, 2014
 Test By: Jack Temperature : 26°C
 Test channel: 40 Humidity : 60 %

Frequency (MHz)	Polarity	Level (dBuV/m)		Limited (dBuV/m)	
		PK	AV	PK	AV
2484.91	H	55.33	41.02	74	54
2491.27	V	55.56	40.79	74	54

Spectrum Detector: PK/AV Test Date : July 25, 2014
 Test By: Jack Temperature : 26°C
 test mode: Hopping mode Humidity : 60 %

Frequency (MHz)	Polarity	Level (dBuV/m)		Limited (dBuV/m)	
		PK	AV	PK	AV
2390.0	H	55.56	40.38	74	54
2390.0	V	55.55	40.66	74	54
2483.5	H	55.64	40.33	74	54
2483.5	V	54.89	41.03	74	54

9. Power Density

10.1 Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Signal Analyzer	Agilent	N9010A	My53470879	05/17/2014	05/16/2015

10.2 Measuring Instruments and Setting

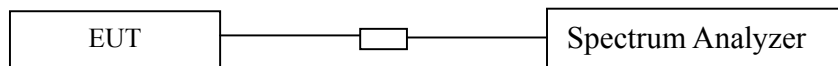
The following table is the setting of spectrum analyzer.

Spectrum analyzer	Setting
Attenuation	Auto
Span Frequency	Set the span to 1.5 times the DTS bandwidth.
RB	3kHz \geq RBW \leq 100KHz
VB	3 x RBW
Detector	Peak
Trace	Max hold
Sweep Time	Automatic

10.3 Test Procedures

- a. The transmitter output (antenna port) was connected to the spectrum analyzer.
- b. Set analyzer center frequency to DTS channel center frequency.
- c. Set the analyzer span to a minimum of 1.5 times the DTS bandwidth.
- d. Set the RBW \geq 3 kHz. Set the VBW \geq 3 x RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level.

10.4 Block Diagram of Test Setup



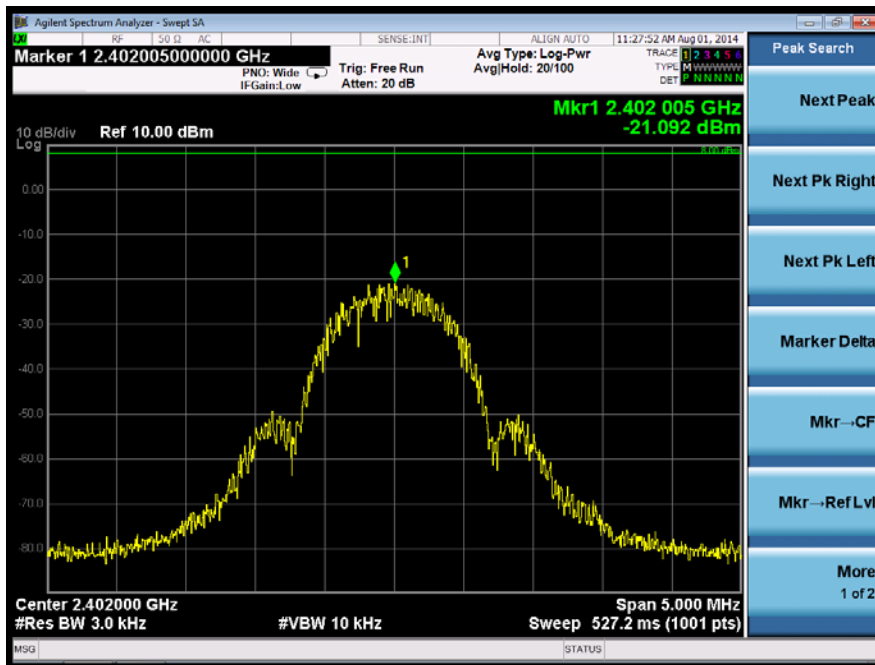
10.5 Limit

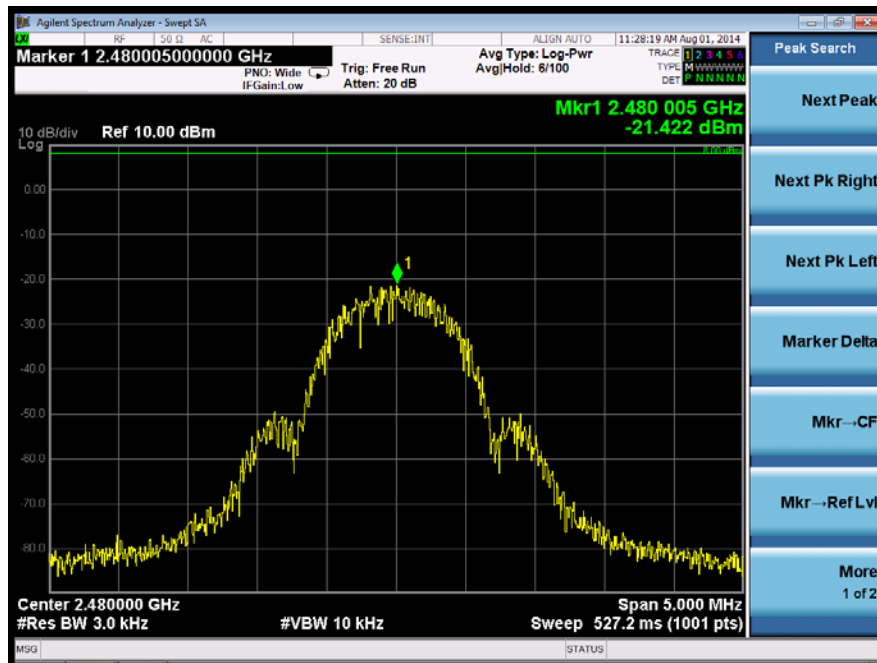
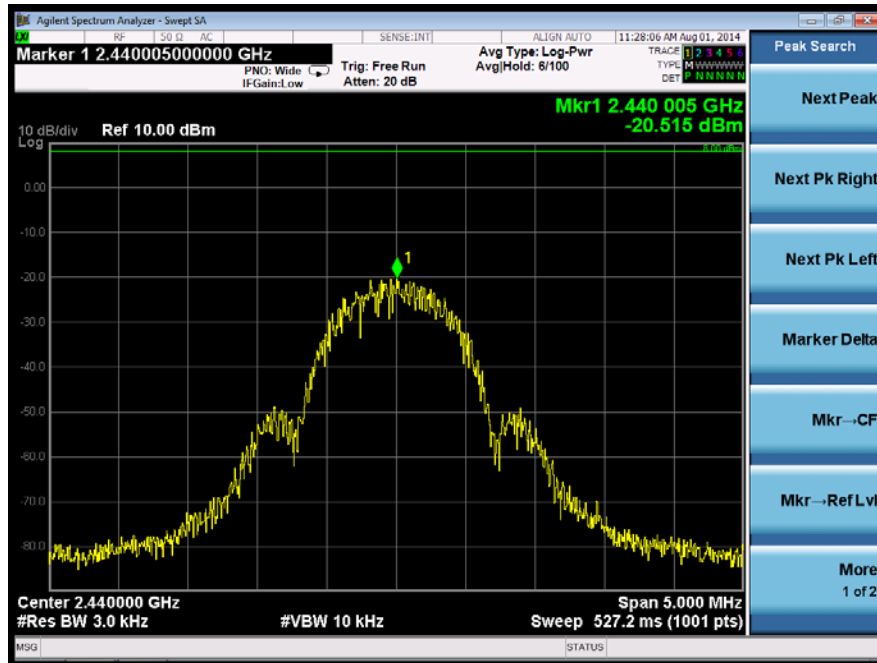
The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3 kHz bandwidth.

10.6 Test Result

Spectrum Detector: PK Test Date : July 25, 2014
 Test By: Jack Temperature : 26°C
 Test Result: PASS Humidity : 60 %
 Operation Mode: BLE

Channel	Measurement Level (dBm)	Required Limit (dBm)	Result
01	-21.092	<8dBm	PASS
20	-20.515	<8dBm	PASS
40	-21.422	<8dBm	PASS





11 Antenna Port Emission

11.1 Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Signal Analyzer	Agilent	N9010A	My53470879	05/17/2014	05/16/2015

11.2 Measuring Instruments and Setting

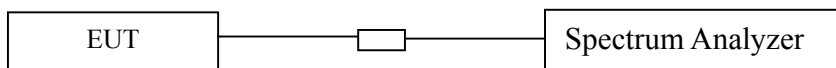
The following table is the setting of spectrum analyzer.

Spectrum analyzer	Setting
Attenuation	Auto
RB	100kHz
VB	300kHz
Detector	Peak
Trace	Max hold

11.3 Test Procedures

The conducted spurious emissions were measured conducted using a spectrum analyzer at low, Middle, and high channels, the limit was determined by attenuation 20dB of the RF peak power output.

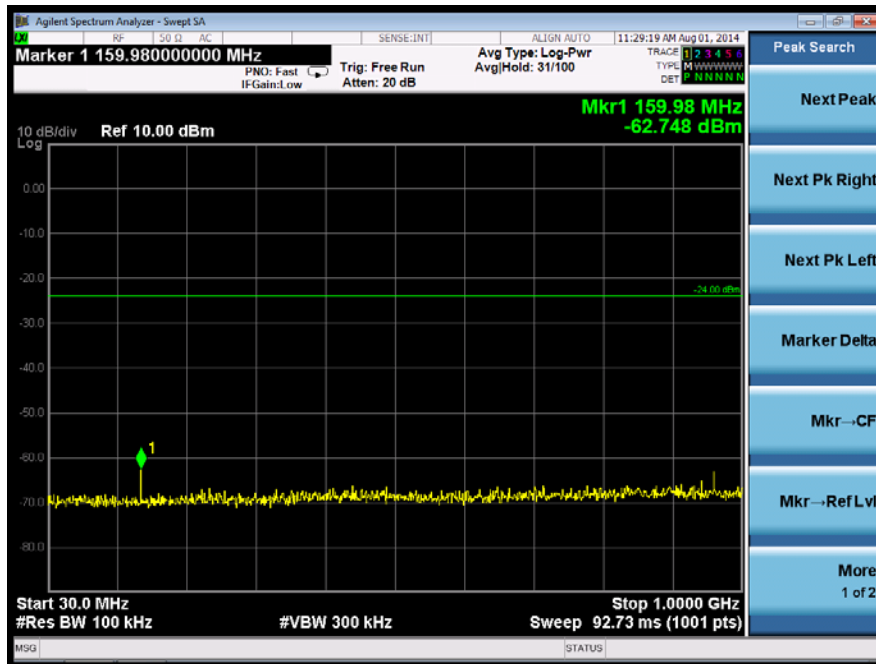
11.4 Block Diagram of Test setup



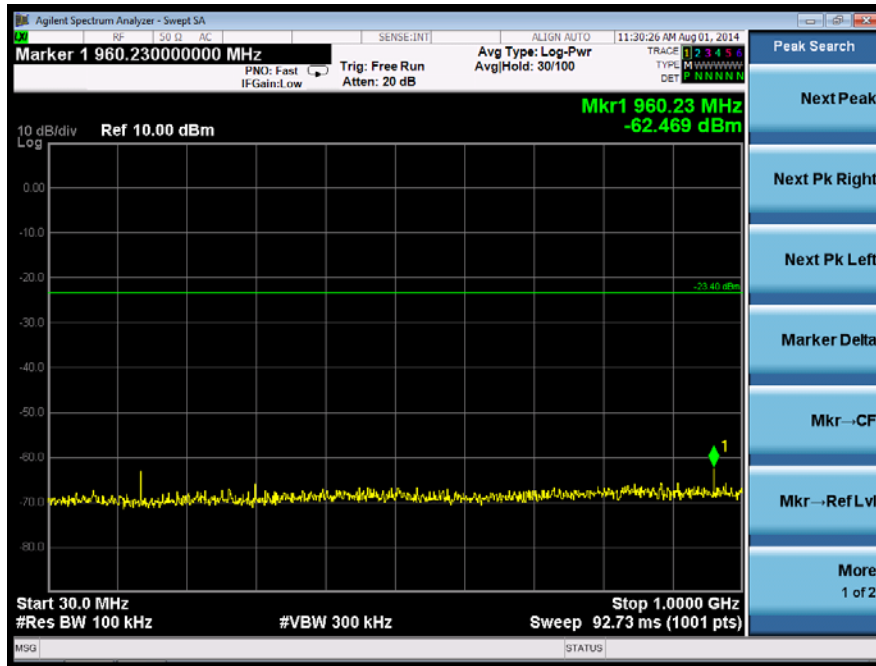
11.5 Test Result

PASS.

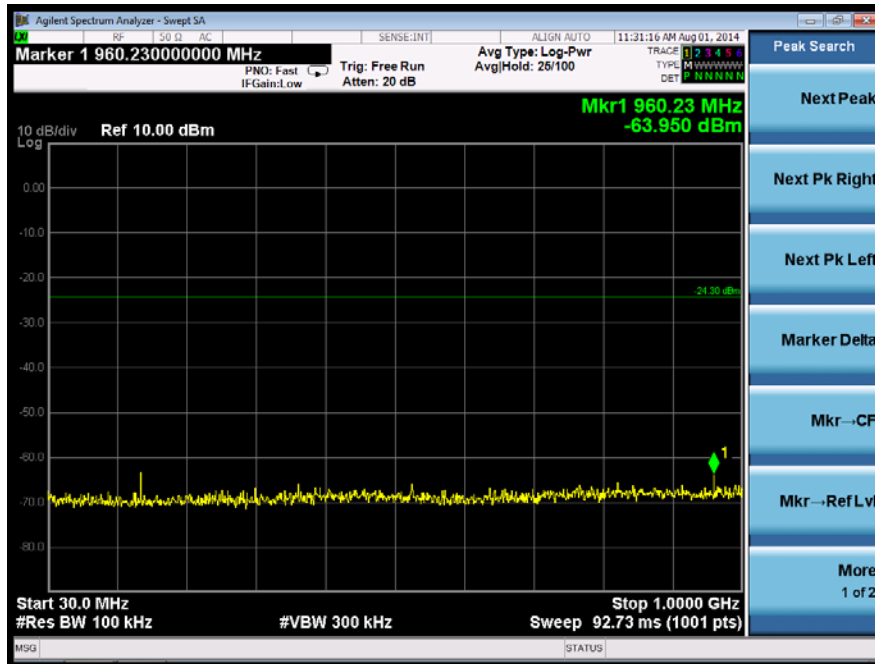
Low Channel 01



Mid Channel 20



High Channel 40



12. Antenna Application

12.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2 Result

The EUT'S antenna is PCB Antenna. The antenna's gain is 0dBi and meets the requirement.