



FCC Part 15C Test Report

FCC ID: ROW-CDW4982660

Product Name:	CDW.4982660-00
Trademark:	N/A
Model Name :	CDW.4982660-00
Prepared For :	CHINA DRAGON TECHNOLOGY LIMITED
Address :	B4 Bidg.haosan No.1 Industry Park, Shajing street, B Shenzhen, China
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
Address :	No.101, Yousong Road, Longhua New District, Shenzhen, China
Test Date:	May 26 - Jun. 05, 2017
Date of Report :	Jun. 05, 2017
Report No.:	BCTC-FY170503195E



TEST RESULT CERTIFICATION

Applicant's name..... : **CHINA DRAGON TECHNOLOGY LIMITED**

Address..... : B4 Bidg.haosan No.1 Industry Park, Shajing street, B Shenzhen, China

Manufacture's Name..... : **CHINA DRAGON TECHNOLOGY LIMITED**

Address..... : B4 Bidg.haosan No.1 Industry Park, Shajing street, B Shenzhen, China

Product description

Product name..... : CDW.4982660-00

Model and/or type reference : CDW.4982660-00

Serial Model..... : N/A

Test Standards..... : FCC Part15.247
ANSI C63.10-2013

This device described above has been tested by BCTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Prepared by(Engineer): Eric Yang

Reviewer(Supervisor): Jade Yang

Approved(Manager): Carson Zhang

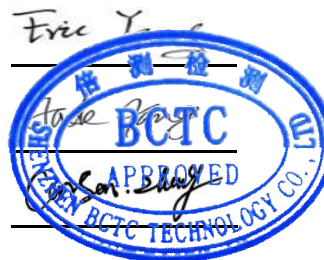




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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add. : No.101,Yousong Road,Longhua New District, Shenzhen,China

FCC Registered No.: 187086

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %** .

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	CDW.4982660-00	
Trade Name	N/A	
Model Name	CDW.4982660-00	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a CDW.4982660-00	
	Frequency range:	2400-2483.5MHz
	Operation Frequency:	802.11b/g/n20MHz:2412~2462 MHz
	Modulation Type:	CCK/OFDM/DBPSK/DAPSK
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n: Up to 75Mbps
	Number Of Channel	11 CH, Please see Note 2.
	Antenna Designation:	Please see Note 3.
	Antenna Gain (dBi)	1.0dbi
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Channel List	Please refer to the Note 2.	
Power Source	DC 3.3V	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.

Channel List for 802.11b/g/n(20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		



3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	PCB Antenna	1.0	



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11
Mode 4	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11

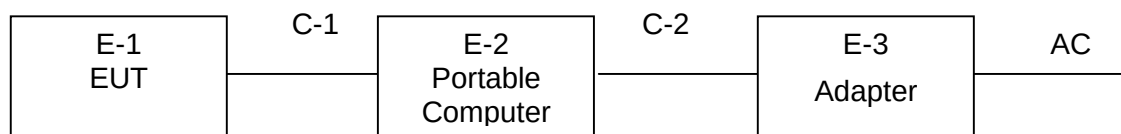
Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

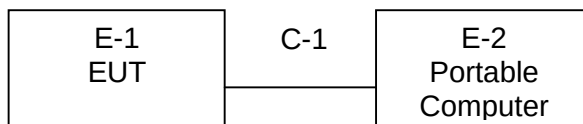


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test





2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	CDW.4982660-00	N/A	CDW.4982660-00	N/A	EUT
E-2	Portable Computer	Lenovo	S2	N/A	Lab Provide
E-3	Adapter	Lenovo	ADLX45NCC3A	N/A	Lab Provide

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	1.0M	USB cable unshielded
C2	NO	NO	1.0M	DC cable unshielded

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4407B	MY45108040	2016.08.27	2017.08.26
2	Test Receiver (9kHz-7GHz)	R&S	ESPI	101318	2016.08.27	2017.08.26
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB 9168	VULB91 68-438	2016.08.27	2017.08.26
4	Horn Antenna (1GHz-18GHz)	SCHWARZBECK	BBHA9120D	1201	2016.09.03	2017.09.03
5	Horn Antenna (14GHz-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	2016.09.03	2017.09.03
6	Amplifier (9KHz-6GHz)	SCHWARZBECK	BBV9744	9744-0037	2016.08.27	2017.08.26
7	Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV9718	9718-309	2016.08.27	2017.08.26
8	Amplifier (18GHz-40GHz)	SCHWARZBECK	BBV 9721	9721-205	2016.08.27	2017.08.26
9	Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	00014	2016.09.03	2017.09.03
10	RF cables1 (9kHz-1GHz)	R&S	R203	R20X	2016.08.27	2017.08.26
11	RF cables2 (1GHz-40GHz)	R&S	R204	R21X	2016.08.27	2017.08.26
12	Antenna connector	Florida RF Labs	N/A	RF 01#	2016.08.27	2017.08.26
13	Power Metter	ANRITSU	ML2487A	6K00001568	2016.08.27	2017.08.26
14	Power Sensor (AV)	ANRITSU	ML2491A	030989	2016.08.27	2017.08.26
15	Signal Analyzer 9kHz-26.5GHz	Agilent	N9010A	MY48030494	2016.08.27	2017.08.26
16	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	2016.08.27	2017.08.26
17	D.C. Power Supply	LongWei	PS-305D	010964729	2016.08.27	2017.08.26

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESCI	1166.5950K03-1011 65-ha	2016.08.27	2017.08.26
2	LISN	SCHWARZBECK	NSLK8127	8127739	2016.08.27	2017.08.26
3	LISN	R&S	NSLK8126	8126487	2016.08.27	2017.08.26
4	RF cables	R&S	R204	R20X	2016.08.27	2017.08.26
5	Attenuator	R&S	ESH3-Z2	143206	2016.08.27	2017.08.26



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

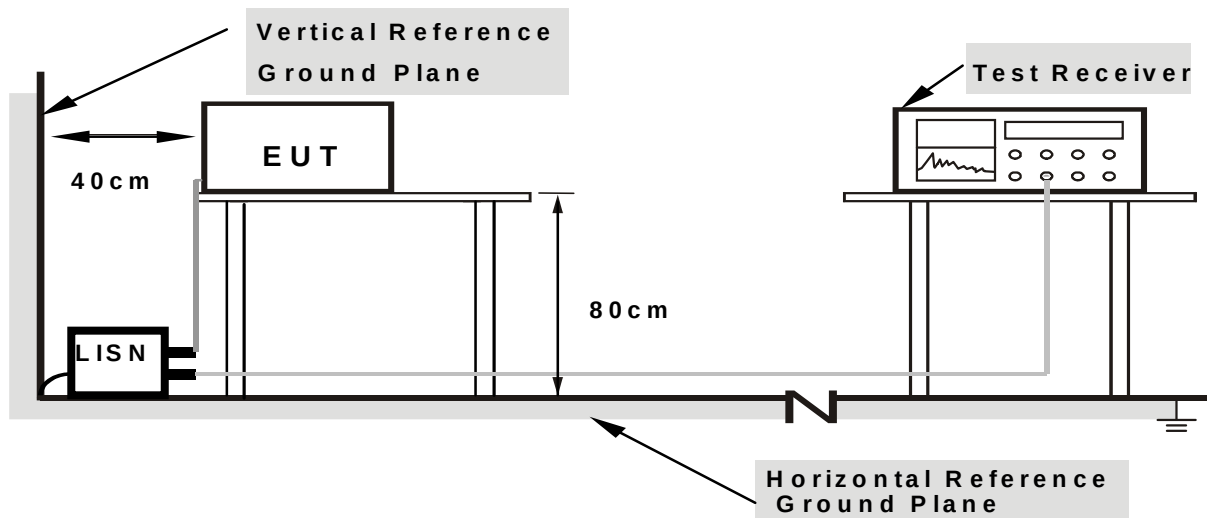
3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

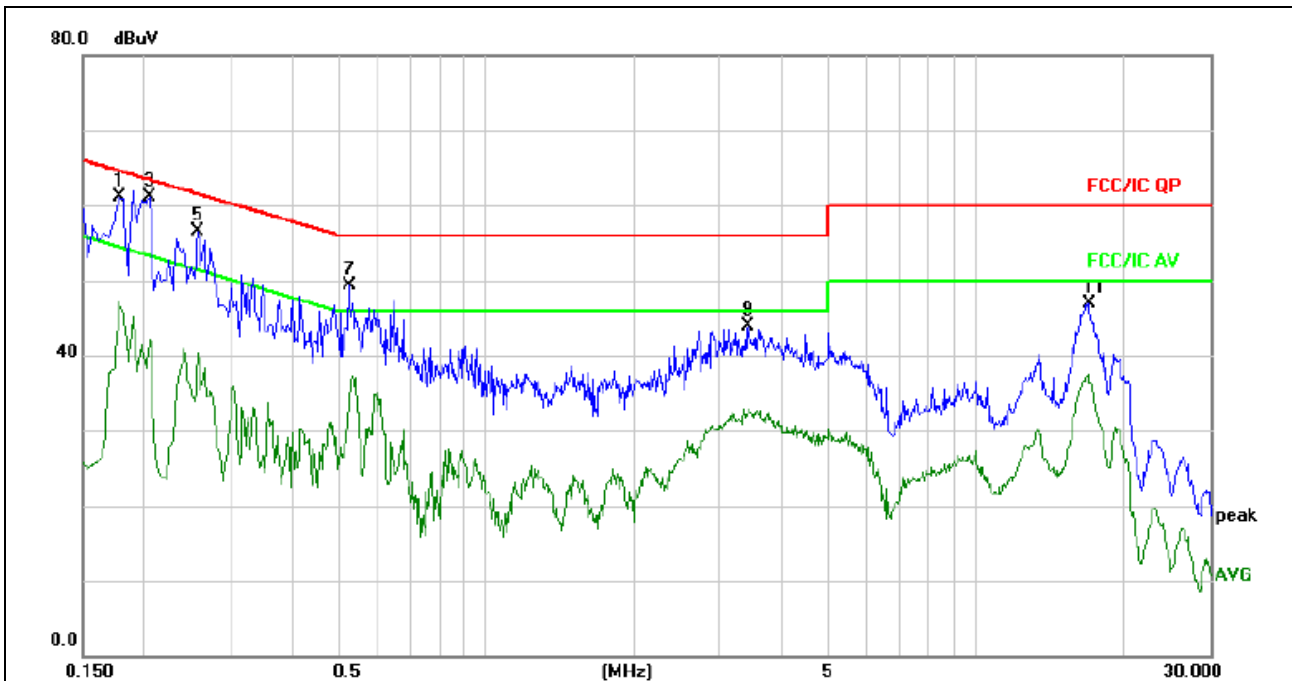
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.



3.1.6 TEST RESULTS

EUT :	CDW.4982660-00	Model Name. :	CDW.4982660-00
Temperature :	25°C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC120V60Hz	Test Mode :	Mode 4

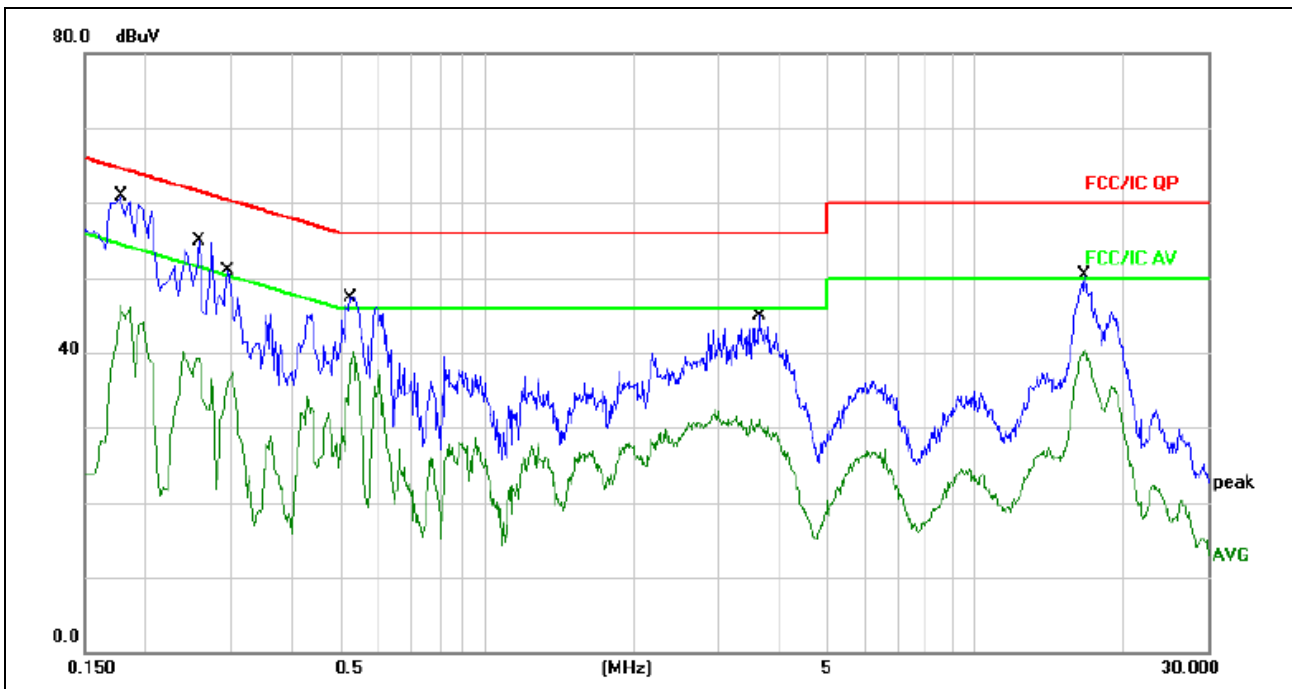
**Remark:**

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1780	51.49	9.66	61.15	64.58	-3.43	QP	
2		0.1780	37.43	9.66	47.09	54.58	-7.49	AVG	
3	*	0.2060	51.49	9.65	61.14	63.37	-2.23	QP	
4		0.2060	34.87	9.65	44.52	53.37	-8.85	AVG	
5		0.2580	46.88	9.66	56.54	61.50	-4.96	QP	
6		0.2580	31.19	9.66	40.85	51.50	-10.65	AVG	
7		0.5260	39.65	9.68	49.33	56.00	-6.67	QP	
8		0.5260	27.61	9.68	37.29	46.00	-8.71	AVG	
9		3.4220	34.27	9.73	44.00	56.00	-12.00	QP	
10		3.4220	23.10	9.73	32.83	46.00	-13.17	AVG	
11		16.9580	36.97	9.89	46.86	60.00	-13.14	QP	
12		16.9580	27.60	9.89	37.49	50.00	-12.51	AVG	



EUT :	CDW.4982660-00	Model Name. :	CDW.4982660-00
Temperature :	25°C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC120V60Hz	Test Mode :	Mode 4



Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1780	51.24	9.66	60.90	64.57	-3.67	QP	
2		0.1780	36.57	9.66	46.23	54.57	-8.34	AVG	
3		0.2580	45.19	9.66	54.85	61.49	-6.64	QP	
4		0.2580	30.42	9.66	40.08	51.49	-11.41	AVG	
5		0.2940	41.15	9.66	50.81	60.41	-9.60	QP	
6		0.2940	27.87	9.66	37.53	50.41	-12.88	AVG	
7		0.5260	37.71	9.68	47.39	56.00	-8.61	QP	
8		0.5260	30.44	9.68	40.12	46.00	-5.88	AVG	
9		3.6100	35.20	9.73	44.93	56.00	-11.07	QP	
10		3.6100	21.69	9.73	31.42	46.00	-14.58	AVG	
11		16.8180	40.38	9.89	50.27	60.00	-9.73	QP	
12		16.8180	30.39	9.89	40.28	50.00	-9.72	AVG	



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

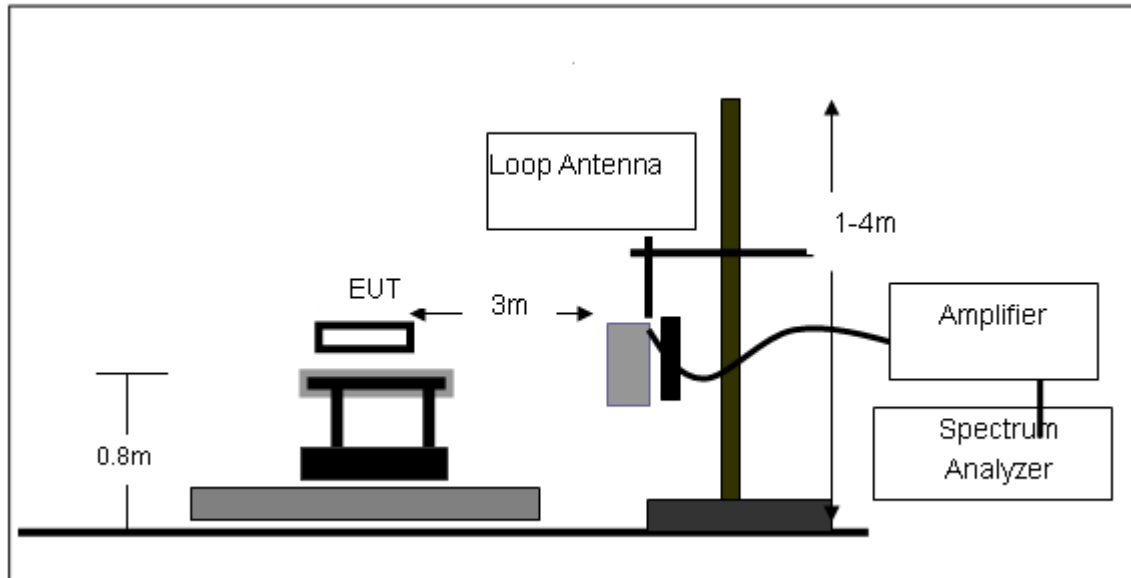
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

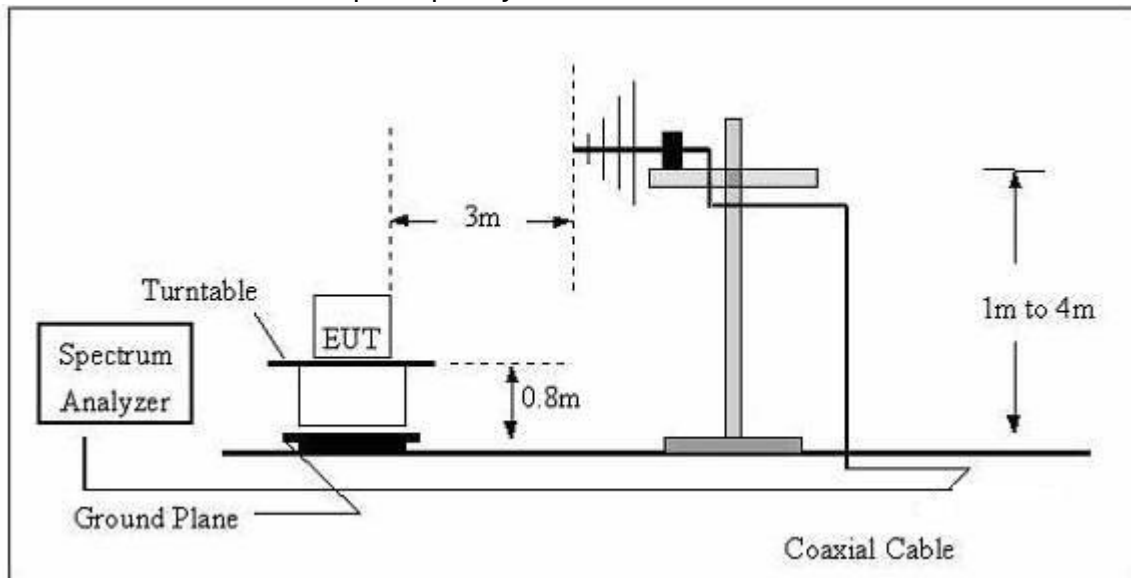
No deviation

3.2.4 TEST SETUP

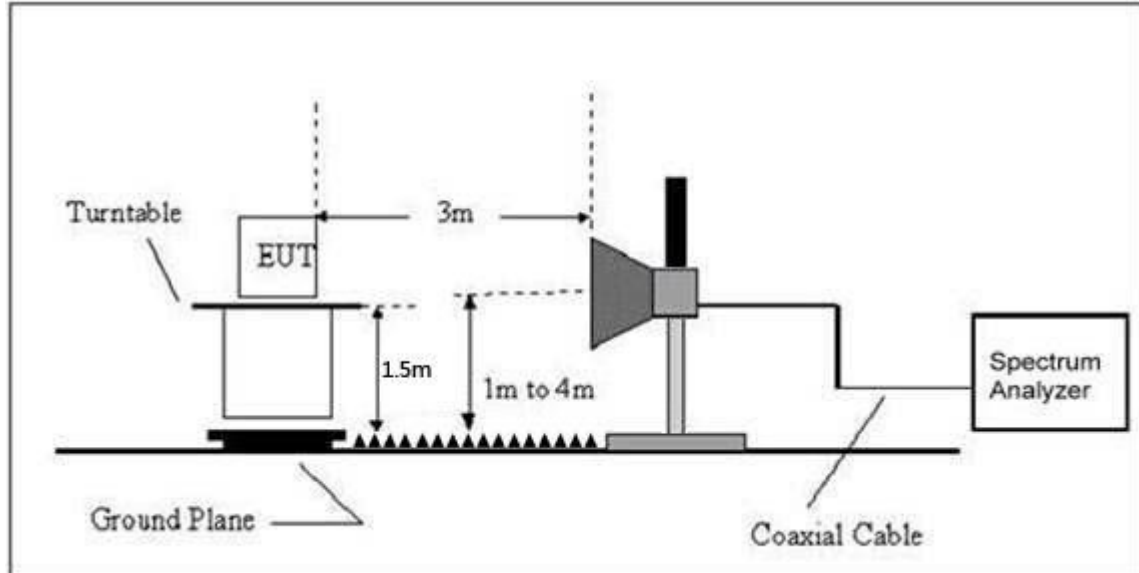
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)**

EUT:	CDW.4982660-00	Model Name. :	CDW.4982660-00
Temperature:	25℃	Relative Humidity:	54%
Pressure:	1010 hPa	Test Voltage :	DC 3.3V from PC
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

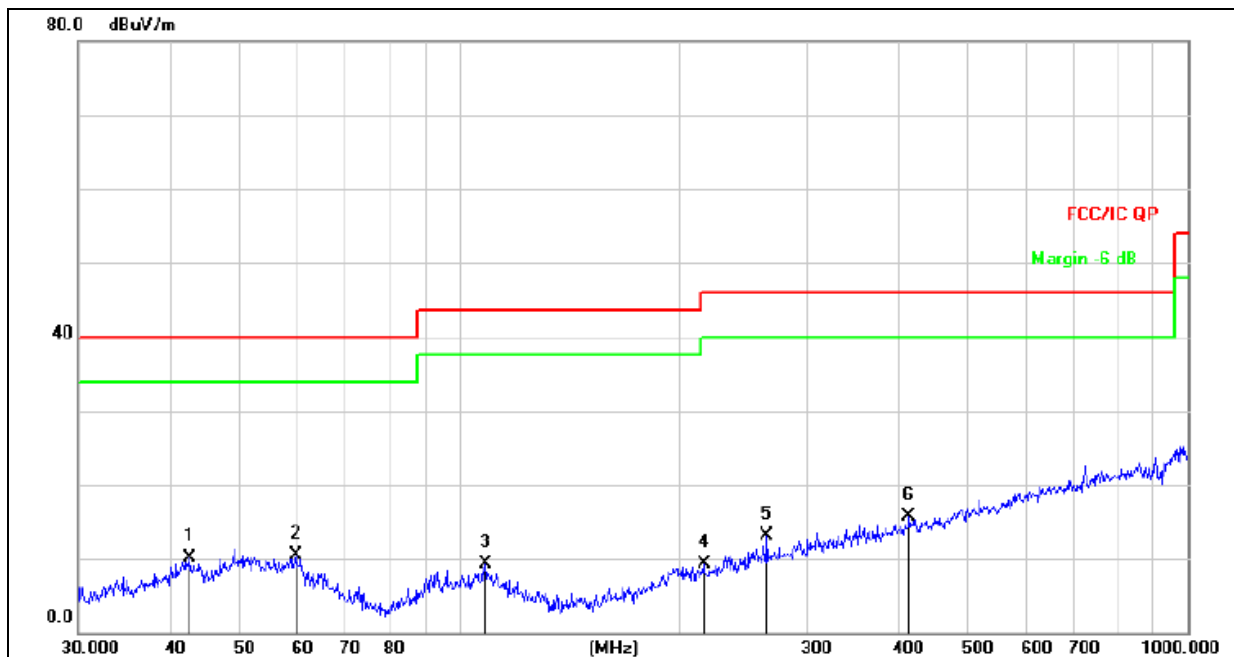
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	CDW.4982660-00	Model Name :	CDW.4982660-00
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3.3V from PC		
Test Mode :	Mode 4		

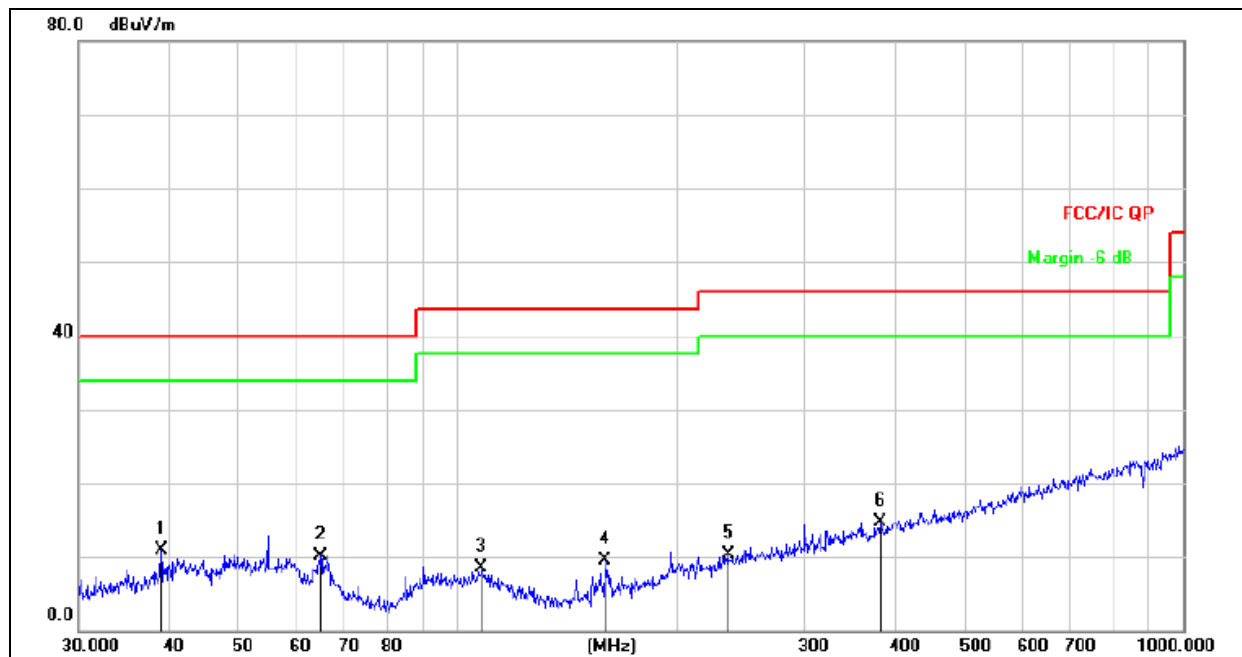


Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		42.7496	25.05	-14.98	10.07	40.00	-29.93	QP
2	*	59.6493	26.64	-16.21	10.43	40.00	-29.57	QP
3		108.6470	25.78	-16.38	9.40	43.50	-34.10	QP
4		216.7828	24.96	-15.57	9.39	46.00	-36.61	QP
5		264.7457	26.33	-13.24	13.09	46.00	-32.91	QP
6		414.7223	24.76	-8.98	15.78	46.00	-30.22	QP



EUT :	CDW.4982660-00	Model Name :	CDW.4982660-00
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 3.3V from PC		
Test Mode :	Mode 4		



Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	39.0245	26.98	-16.02	10.96	40.00	-29.04	QP
2		64.6594	26.96	-16.79	10.17	40.00	-29.83	QP
3		107.8877	24.76	-16.33	8.43	43.50	-35.07	QP
4		159.7844	28.53	-19.02	9.51	43.50	-33.99	QP
5		235.8164	24.67	-14.30	10.37	46.00	-35.63	QP
6		382.5879	24.70	-9.95	14.75	46.00	-31.25	QP

**3.2.8 TEST RESULTS (1G-26GHZ)**

802.11b									
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	66.53	39.55	7.85	25.66	60.49	74	-13.51	PK
V	4824.00	48.47	39.55	7.85	25.66	42.43	54	-11.57	AV
V	7236.00	66.95	38.33	7.52	24.55	60.69	74	-13.31	PK
V	7236.00	48.36	38.33	7.52	24.55	42.10	54	-11.90	AV
V	15450.00	51.84	35.23	6.75	26.59	49.95	74	-24.05	PK
H	4824.00	66.72	39.55	7.85	25.66	60.68	74	-13.32	PK
H	4824.00	49.64	39.55	7.85	25.66	43.60	54	-10.40	AV
H	7236.00	69.93	38.33	7.52	23.55	62.67	74	-11.33	PK
H	7236.00	50.64	38.33	7.52	23.22	43.05	54	-10.95	AV
H	15450.00	47.45	35.45	6.75	27.88	46.63	74	-27.37	PK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437									
V	4874.00	67.34	38.89	7.57	25.45	61.47	74	-12.53	PK
V	4874.00	49.27	38.89	7.57	25.45	43.40	54	-10.60	AV
V	7311.00	67.91	38.78	7.35	24.78	61.26	74	-12.74	PK
V	7311.00	47.52	38.78	7.35	24.78	40.87	54	-13.13	AV
V	15450.00	52.83	35.89	6.42	26.47	49.83	74	-24.17	PK
H	4874.00	65.65	38.89	7.57	25.45	59.78	74	-14.22	PK
H	4874.00	49.24	38.89	7.57	25.45	43.37	54	-10.63	AV
H	7311.00	68.43	38.78	7.35	24.78	61.78	74	-12.22	PK
H	7311.00	48.56	38.78	7.35	24.78	41.91	54	-12.09	AV
H	15450.00	49.74	36.68	6.42	26.65	46.13	74	-27.87	PK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel: 2462MHz									
V	4924.00	66.69	38.75	7.46	25.45	60.85	74	-13.15	PK
V	4924.00	48.57	38.75	7.46	25.45	42.73	54	-11.27	AV
V	7386.00	68.84	38.65	7.22	24.78	62.19	74	-11.81	PK
V	7386.00	49.52	38.65	7.22	24.78	42.87	54	-11.13	AV
V	15450.00	53.63	35.58	6.35	26.47	50.87	74	-23.13	PK
H	4924.00	66.89	38.75	7.46	25.45	61.05	74	-12.95	PK
H	4924.00	50.95	38.75	7.46	25.45	45.11	54	-8.89	AV
H	7386.00	68.54	38.65	7.22	24.78	61.89	74	-12.11	PK
H	7386.00	47.67	38.65	7.22	24.78	41.02	54	-12.98	AV
H	15450.00	48.92	36.42	6.32	26.65	45.47	74	-28.53	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11g									
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	65.96	39.55	7.85	25.66	59.92	74	-14.08	PK
V	4824.00	48.24	39.55	7.85	25.66	42.20	54	-11.80	AV
V	7236.00	66.74	38.33	7.52	24.55	60.48	74	-13.52	PK
V	7236.00	47.34	38.33	7.52	24.55	41.08	54	-12.92	AV
V	15450.00	49.53	35.23	6.75	26.59	47.64	74	-26.36	PK
H	4824.00	63.47	39.55	7.85	25.66	57.43	74	-16.57	PK
H	4824.00	49.47	39.55	7.85	25.66	43.43	54	-10.57	AV
H	7236.00	69.54	38.33	7.52	23.55	62.28	74	-11.72	PK
H	7236.00	50.36	38.33	7.52	23.22	42.77	54	-11.23	AV
H	15450.00	46.25	35.45	6.75	27.88	45.43	74	-28.57	PK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437									
V	4874.00	65.76	38.89	7.57	25.45	59.89	74	-14.11	PK
V	4874.00	48.50	38.89	7.57	25.45	42.63	54	-11.37	AV
V	7311.00	66.43	38.78	7.35	24.78	59.78	74	-14.22	PK
V	7311.00	46.62	38.78	7.35	24.78	39.97	54	-14.03	AV
V	15450.00	51.21	35.89	6.42	26.47	48.21	74	-25.79	PK
H	4874.00	64.37	38.89	7.57	25.45	58.50	74	-15.50	PK
H	4874.00	48.47	38.89	7.57	25.45	42.60	54	-11.40	AV
H	7311.00	68.53	38.78	7.35	24.78	61.88	74	-12.12	PK
H	7311.00	47.18	38.78	7.35	24.78	40.53	54	-13.47	AV
H	15450.00	48.26	36.68	6.42	26.65	44.65	74	-29.35	PK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel: 2462MHz									
V	4924.00	63.61	38.75	7.46	25.45	57.77	74	-16.23	PK
V	4924.00	47.24	38.75	7.46	25.45	41.40	54	-12.60	AV
V	7386.00	67.35	38.65	7.22	24.78	60.70	74	-13.30	PK
V	7386.00	48.58	38.65	7.22	24.78	41.93	54	-12.07	AV
V	15450.00	52.43	35.58	6.35	26.47	49.67	74	-24.33	PK
H	4924.00	65.31	38.75	7.46	25.45	59.47	74	-14.53	PK
H	4924.00	49.26	38.75	7.46	25.45	43.42	54	-10.58	AV
H	7386.00	68.13	38.65	7.22	24.78	61.48	74	-12.52	PK
H	7386.00	47.60	38.65	7.22	24.78	40.95	54	-13.05	AV
H	15450.00	48.54	36.42	6.32	26.65	45.09	74	-28.91	PK

Remark:

- Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
- If peak below the average limit, the average emission was no test.
- The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

**802.11n(20MHz)**

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2412MHz									
V	4824.00	66.03	39.55	7.85	25.66	59.99	74	-14.01	PK
V	4824.00	48.42	39.55	7.85	25.66	42.38	54	-11.62	AV
V	7236.00	65.26	38.33	7.52	24.55	59.00	74	-15.00	PK
V	7236.00	48.31	38.33	7.52	24.55	42.05	54	-11.95	AV
V	15450.00	50.14	35.23	6.75	26.59	48.25	74	-25.75	PK
H	4824.00	67.27	39.55	7.85	25.66	61.23	74	-12.77	PK
H	4824.00	49.05	39.55	7.85	25.66	43.01	54	-10.99	AV
H	7236.00	68.39	38.33	7.52	23.55	61.13	74	-12.87	PK
H	7236.00	52.46	38.33	7.52	23.22	44.87	54	-9.13	AV
H	15450.00	48.12	35.45	6.75	27.88	47.30	74	-26.70	PK

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2437									
V	4874.00	64.95	38.89	7.57	25.45	59.08	74	-14.92	PK
V	4874.00	47.16	38.89	7.57	25.45	41.29	54	-12.71	AV
V	7311.00	65.37	38.78	7.35	24.78	58.72	74	-15.28	PK
V	7311.00	45.37	38.78	7.35	24.78	38.72	54	-15.28	AV
V	15450.00	49.23	35.89	6.42	26.47	46.23	74	-27.77	PK
H	4874.00	63.84	38.89	7.57	25.45	57.97	74	-16.03	PK
H	4874.00	47.63	38.89	7.57	25.45	41.76	54	-12.24	AV
H	7311.00	68.25	38.78	7.35	24.78	61.60	74	-12.40	PK
H	7311.00	47.16	38.78	7.35	24.78	40.51	54	-13.49	AV
H	15450.00	48.35	36.68	6.42	26.65	44.74	74	-29.26	PK

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel: 2462MHz									
V	4924.00	62.63	38.75	7.46	25.45	56.79	74	-17.21	PK
V	4924.00	44.28	38.75	7.46	25.45	38.44	54	-15.56	AV
V	7386.00	61.79	38.65	7.22	24.78	55.14	74	-18.86	PK
V	7386.00	43.26	38.65	7.22	24.78	36.61	54	-17.39	AV
V	15450.00	48.76	35.58	6.35	26.47	46.00	74	-28.00	PK
H	4924.00	59.47	38.75	7.46	25.45	53.63	74	-20.37	PK
H	4924.00	44.25	38.75	7.46	25.45	38.41	54	-15.59	AV
H	7386.00	62.28	38.65	7.22	24.78	55.63	74	-18.37	PK
H	7386.00	41.37	38.65	7.22	24.78	34.72	54	-19.28	AV
H	15450.00	47.46	36.42	6.32	26.65	44.01	74	-29.99	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



Band Radiated

802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz							
V	2390.00	37.65	13.83	51.48	74.00	-22.52	PK
V	2390.00	27.79	13.83	41.62	54.00	-12.38	AV
V	2400.00	38.37	13.85	52.22	74.00	-21.78	PK
V	2400.00	26.68	13.85	40.53	54.00	-13.47	AV
H	2390.00	37.85	13.83	51.68	74.00	-22.32	PK
H	2390.00	28.08	13.83	41.91	54.00	-12.09	AV
V	2400.00	38.21	13.85	52.06	74.00	-21.94	PK
V	2400.00	28.34	13.85	42.19	54.00	-11.81	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel: 2462MHz							
V	2483.50	37.67	14.02	51.69	74.00	-22.31	PK
V	2483.50	27.54	14.02	41.56	54.00	-12.44	AV
V	2500.00	38.72	14.06	52.78	74.00	-21.22	PK
V	2500.00	26.89	14.06	40.95	54.00	-13.05	AV
H	2483.50	38.05	14.02	52.07	74.00	-21.93	PK
H	2483.50	27.57	14.02	41.59	54.00	-12.41	AV
H	2500.00	37.79	14.06	51.85	74.00	-22.15	PK
H	2500.00	25.32	14.06	39.38	54.00	-14.62	AV

Remark:

1. Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11g

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2412MHz							
V	2390.00	36.58	13.83	50.41	74.00	-23.59	PK
V	2390.00	27.78	13.83	41.61	54.00	-12.39	AV
V	2400.00	38.62	13.85	52.47	74.00	-21.53	PK
V	2400.00	26.45	13.85	40.30	54.00	-13.70	AV
H	2390.00	38.23	13.83	52.06	74.00	-21.94	PK
H	2390.00	30.17	13.83	44.00	54.00	-10.00	AV
V	2400.00	34.22	13.85	48.07	74.00	-25.93	PK
V	2400.00	26.53	13.85	40.38	54.00	-13.62	AV

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel: 2462MHz							
V	2483.50	35.63	14.02	49.65	74.00	-24.35	PK
V	2483.50	26.47	14.02	40.49	54.00	-13.51	AV
V	2500.00	37.32	14.06	51.38	74.00	-22.62	PK
V	2500.00	26.21	14.06	40.27	54.00	-13.73	AV
H	2483.50	36.44	14.02	50.46	74.00	-23.54	PK
H	2483.50	26.69	14.02	40.71	54.00	-13.29	AV
H	2500.00	36.76	14.06	50.82	74.00	-23.18	PK
H	2500.00	27.02	14.06	41.08	54.00	-12.92	AV

Remark:

1. Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n(20MHz)

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz							
V	2390.00	36.49	13.83	50.32	74.00	-23.68	PK
V	2390.00	25.64	13.83	39.47	54.00	-14.53	AV
V	2400.00	37.25	13.85	51.10	74.00	-22.90	PK
V	2400.00	24.99	13.85	38.84	54.00	-15.16	AV
H	2390.00	38.34	13.83	52.17	74.00	-21.83	PK
H	2390.00	25.67	13.83	39.50	54.00	-14.50	AV
V	2400.00	37.96	13.85	51.81	74.00	-22.19	PK
V	2400.00	25.87	13.85	39.72	54.00	-14.28	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel: 2462MHz							
V	2483.50	37.39	14.02	51.41	74.00	-22.59	PK
V	2483.50	26.42	14.02	40.44	54.00	-13.56	AV
V	2500.00	38.13	14.06	52.19	74.00	-21.81	PK
V	2500.00	25.25	14.06	39.31	54.00	-14.69	AV
H	2483.50	37.68	14.02	51.70	74.00	-22.30	PK
H	2483.50	26.74	14.02	40.76	54.00	-13.24	AV
H	2500.00	37.46	14.06	51.52	74.00	-22.48	PK
H	2500.00	25.95	14.06	40.01	54.00	-13.99	AV

Remark:

1. Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

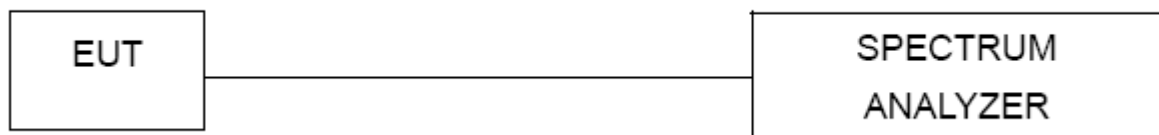
4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

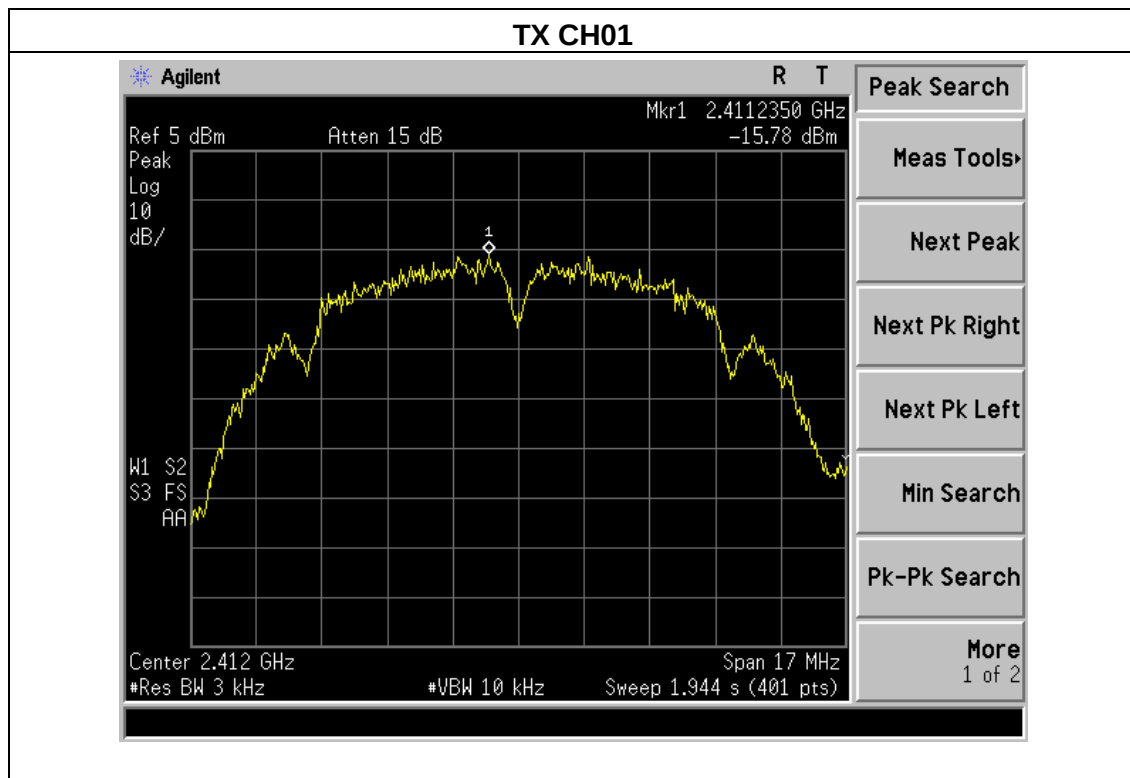
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.



4.1.5 TEST RESULTS

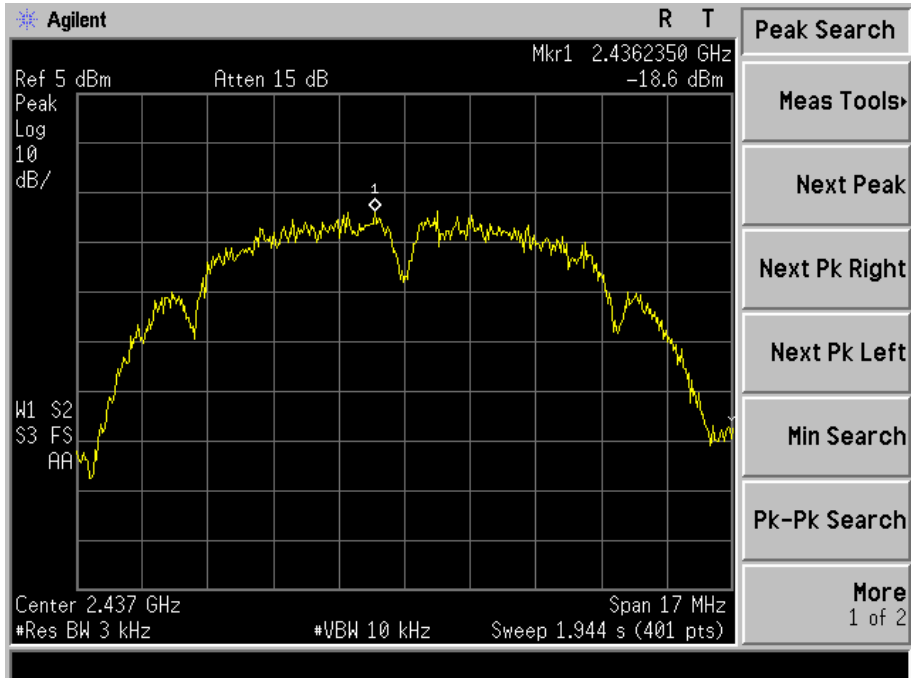
EUT :	CDW.4982660-00	Model Name :	CDW.4982660-00
Temperature :	25°C	Relative Humidity :	54%
Pressure :	1015 hPa	Test Voltage :	DC 3.3V from PC
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-15.78	8	PASS
2437 MHz	-18.60	8	PASS
2462 MHz	-18.62	8	PASS

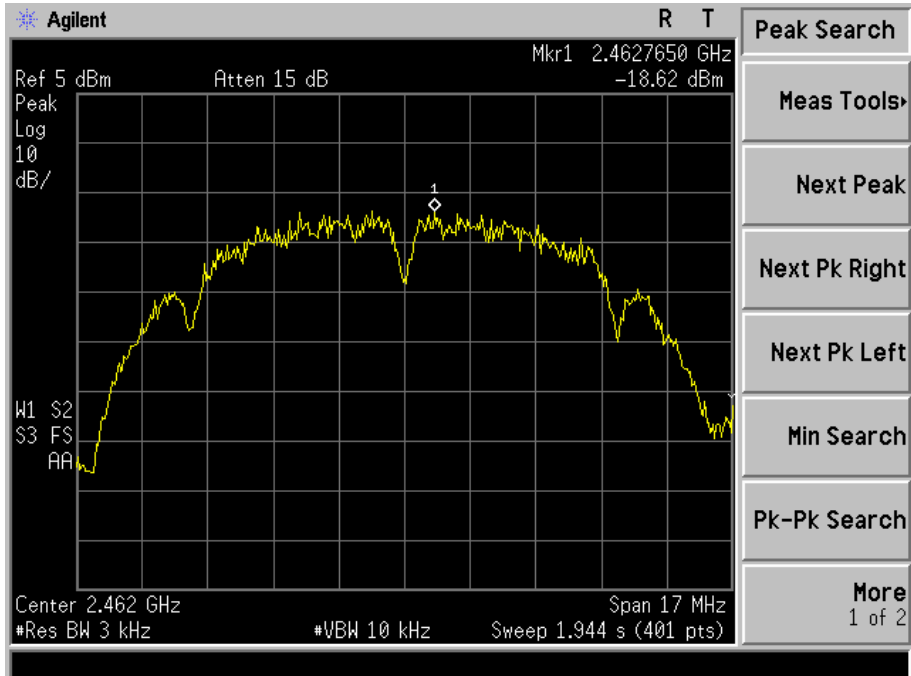




TX CH06



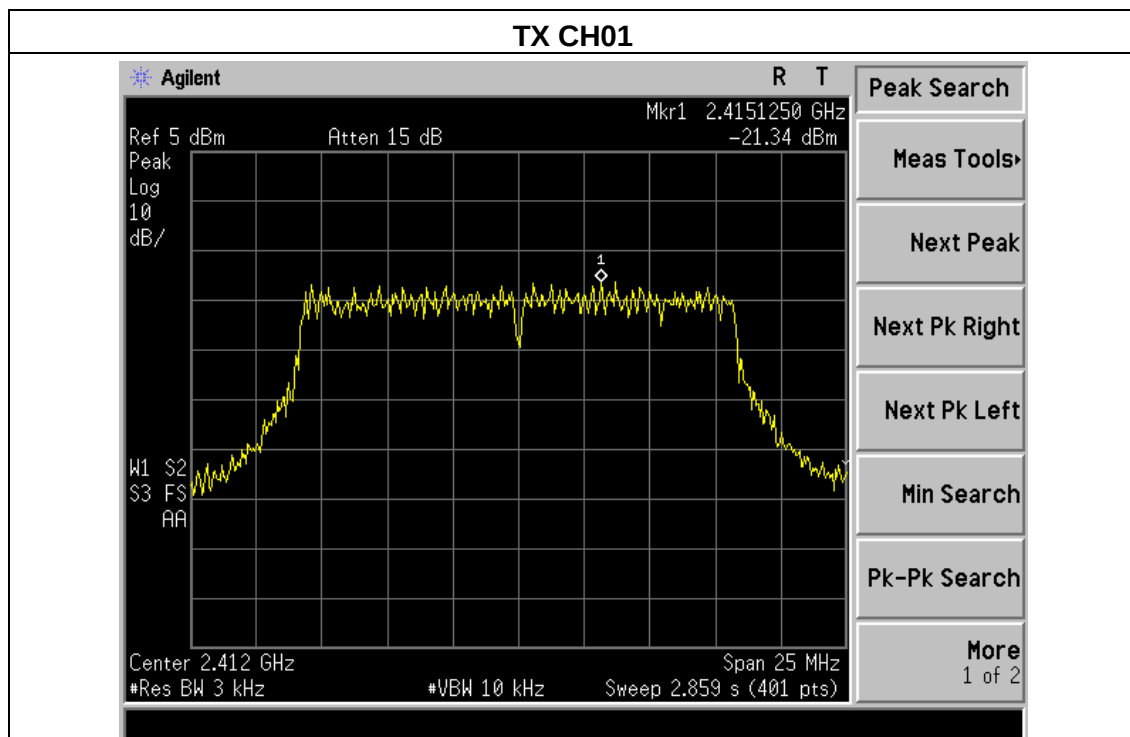
TX CH11





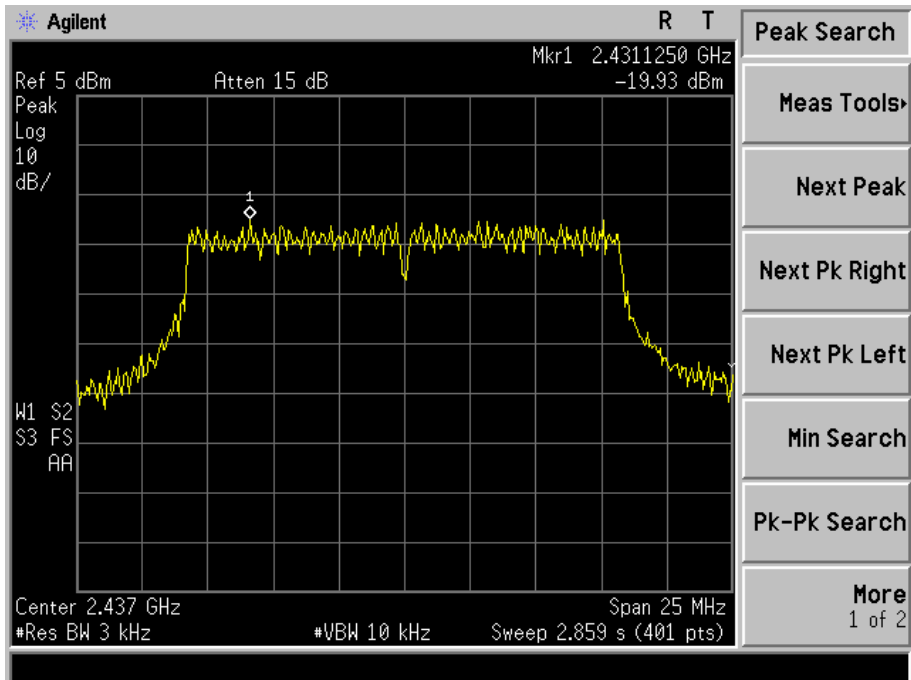
EUT :	CDW.4982660-00	Model Name :	CDW.4982660-00
Temperature :	25°C	Relative Humidity :	54%
Pressure :	1015 hPa	Test Voltage :	DC 3.3V from PC
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-21.34	8	PASS
2437 MHz	-19.93	8	PASS
2462 MHz	-20.98	8	PASS

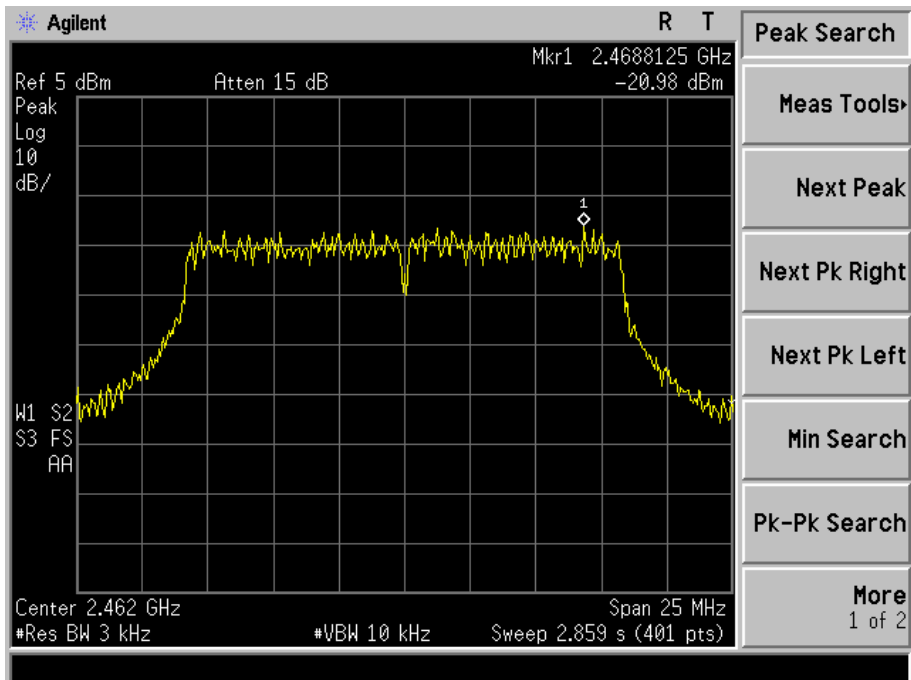




TX CH06



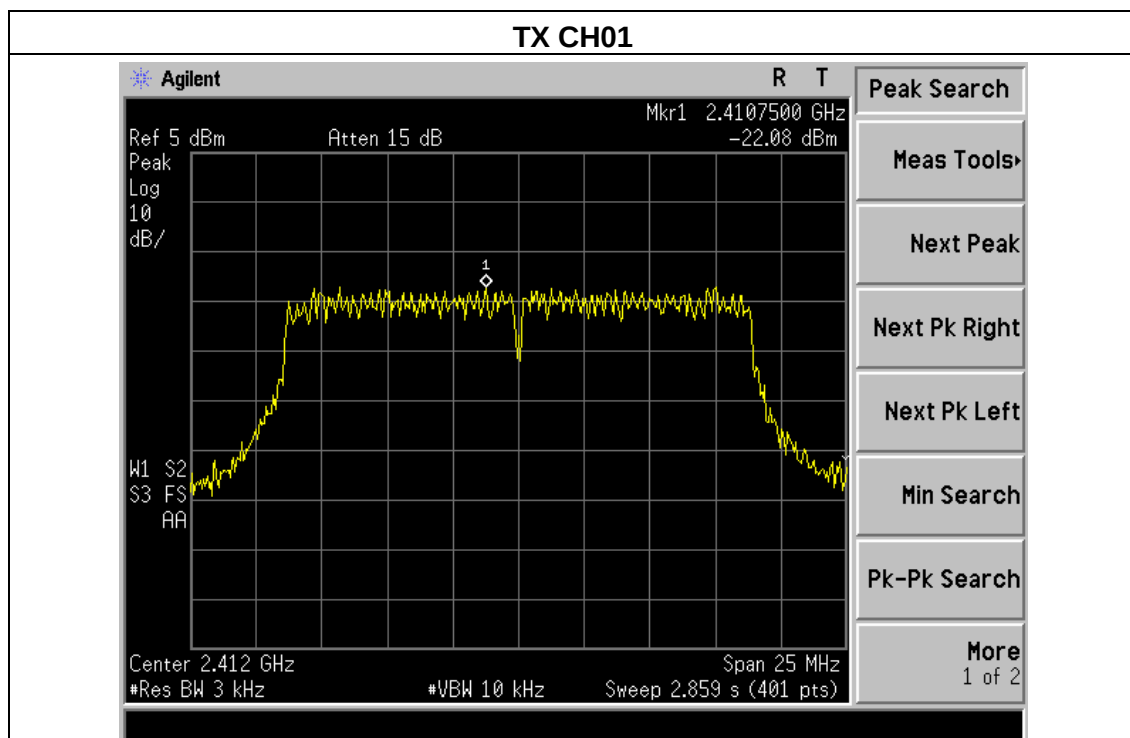
TX CH11





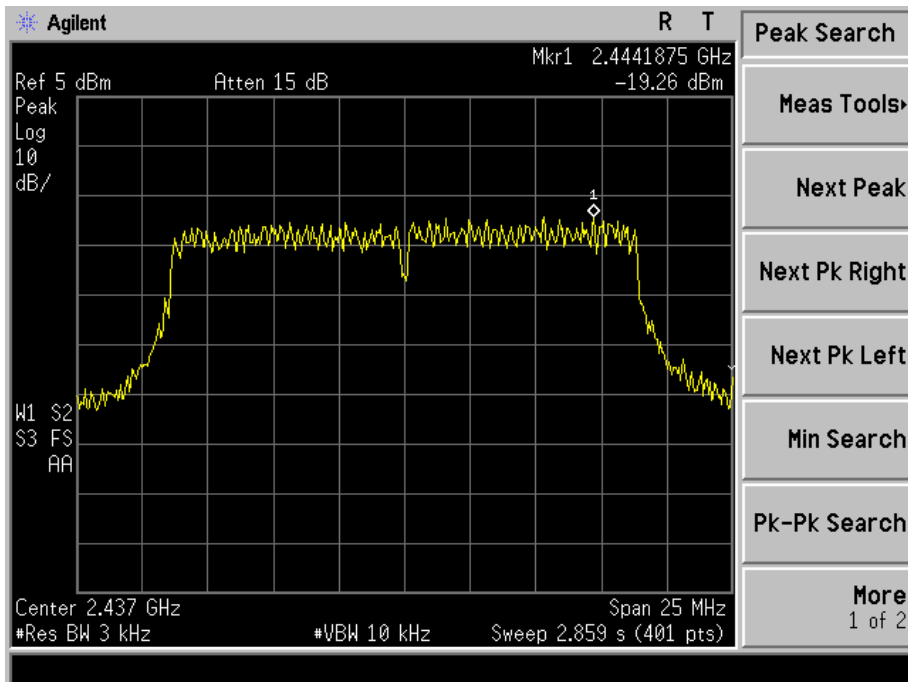
EUT :	CDW.4982660-00	Model Name :	CDW.4982660-00
Temperature :	25°C	Relative Humidity :	54%
Pressure :	1015 hPa	Test Voltage :	DC 3.3V from PC
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-22.08	8	PASS
2437 MHz	-19.26	8	PASS
2462 MHz	-18.44	8	PASS

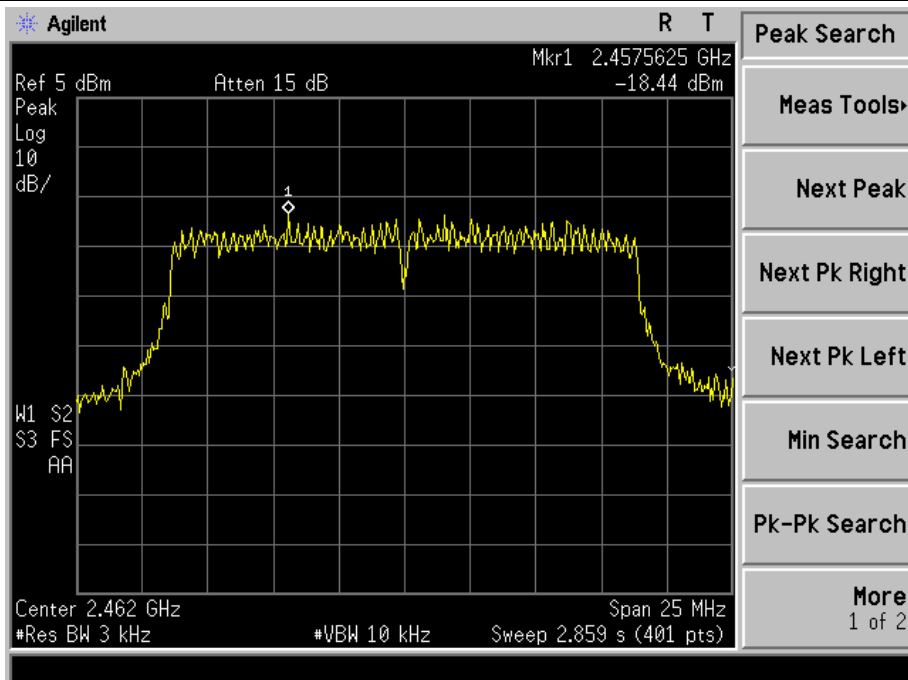




TX CH06



TX CH11





5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

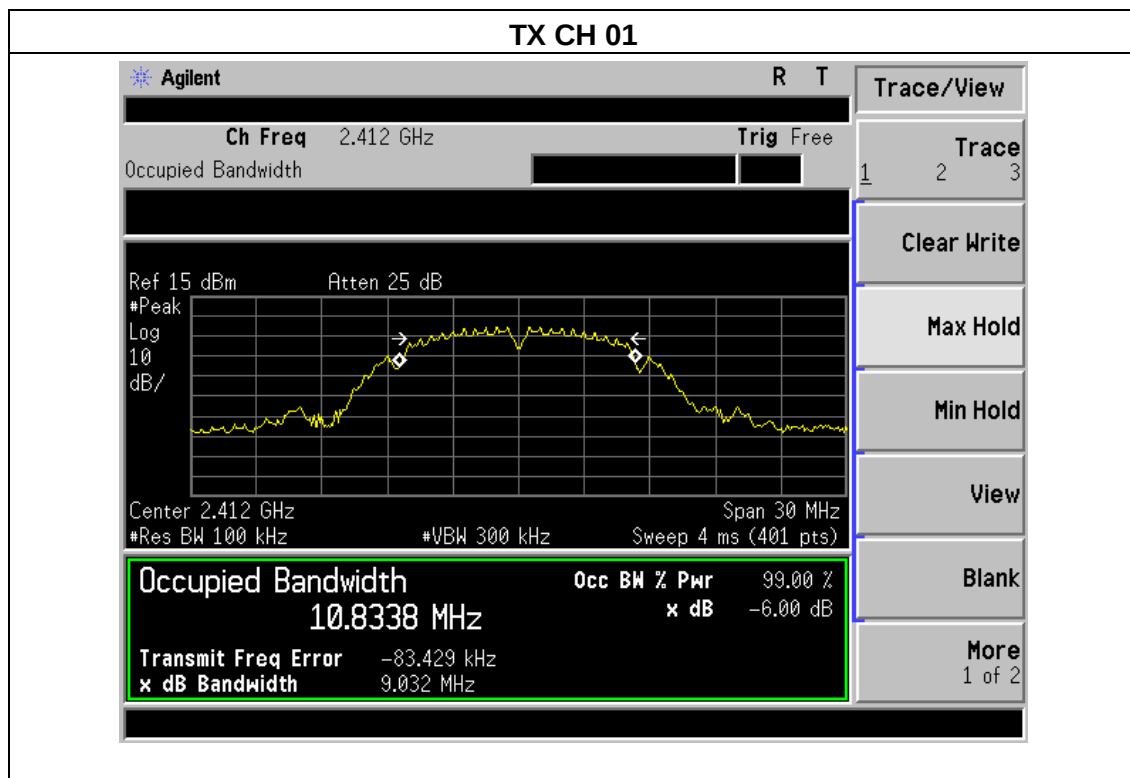
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.1.5 TEST RESULTS

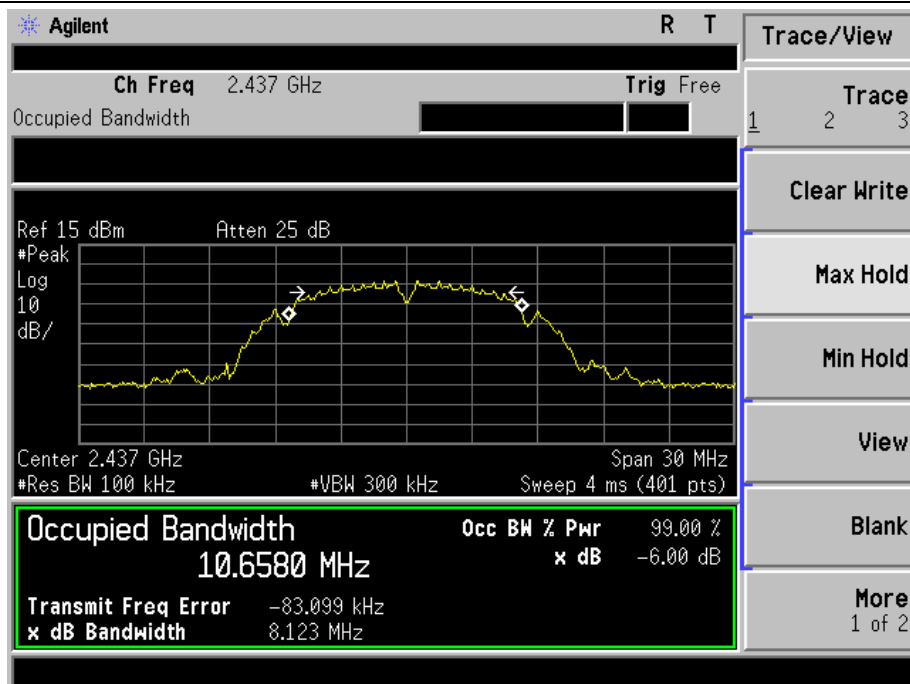
EUT :	CDW.4982660-00	Model Name :	CDW.4982660-00
Temperature :	25°C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V from PC
Test Mode :	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	9.032	500	Pass
Middle	2437	8.123	500	Pass
High	2462	8.558	500	Pass

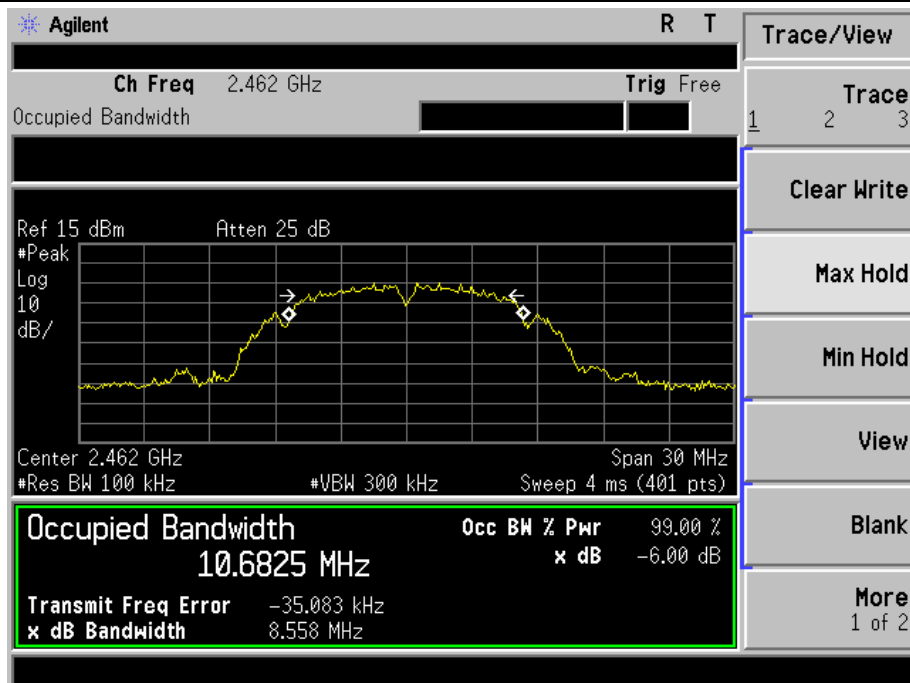




TX CH 06



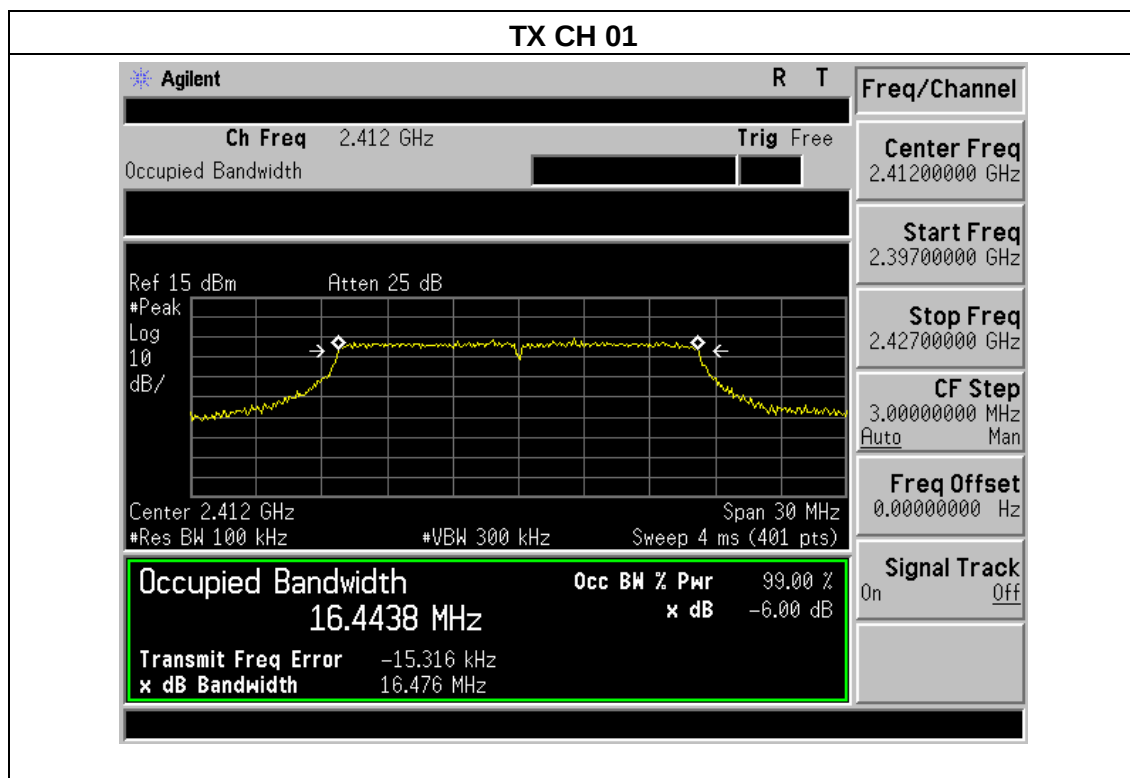
TX CH 11





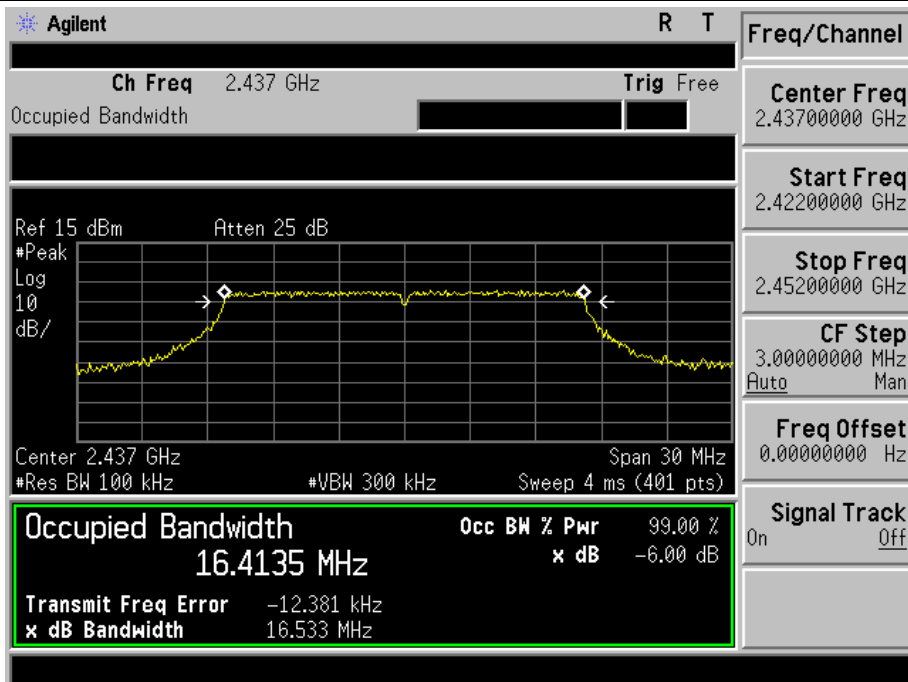
EUT :	CDW.4982660-00	Model Name :	CDW.4982660-00
Temperature :	25°C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V from PC
Test Mode :	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.476	500	Pass
Middle	2437	16.533	500	Pass
High	2462	16.575	500	Pass

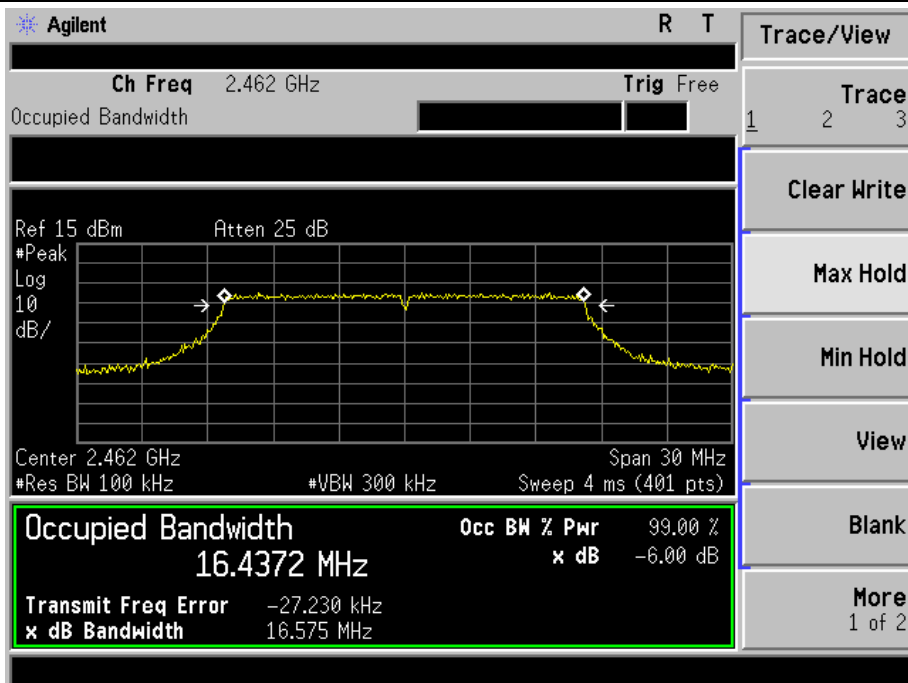




TX CH 06



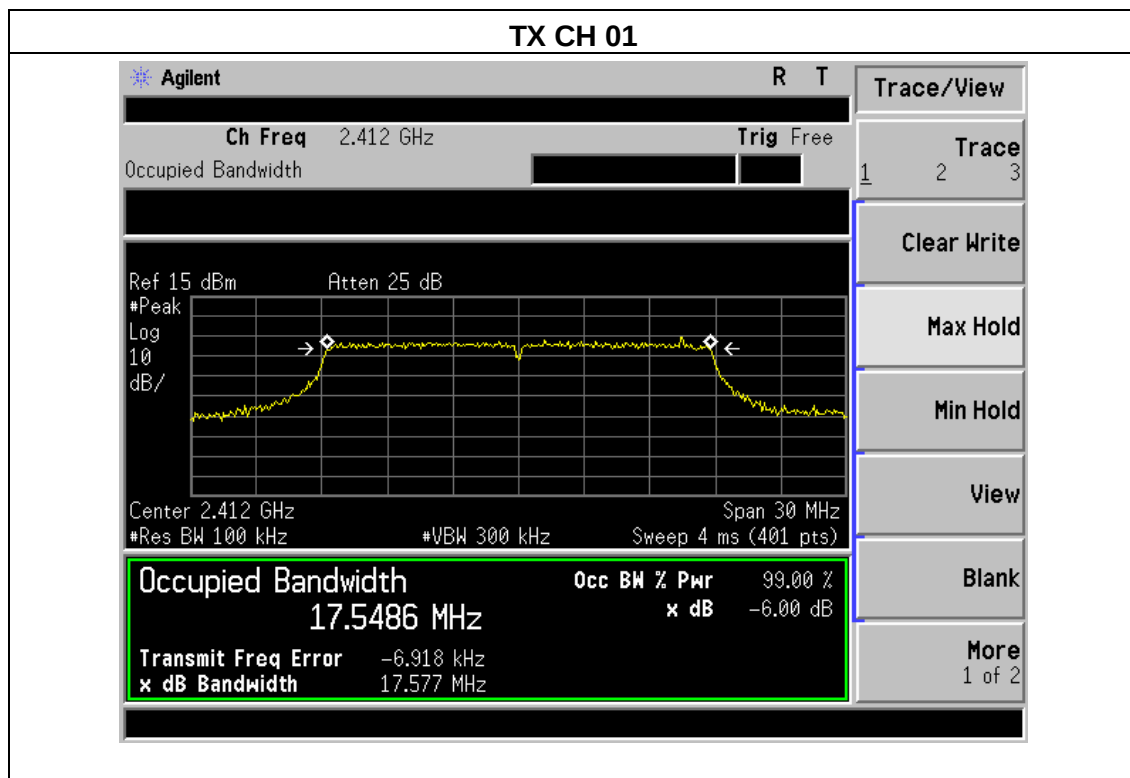
TX CH 11

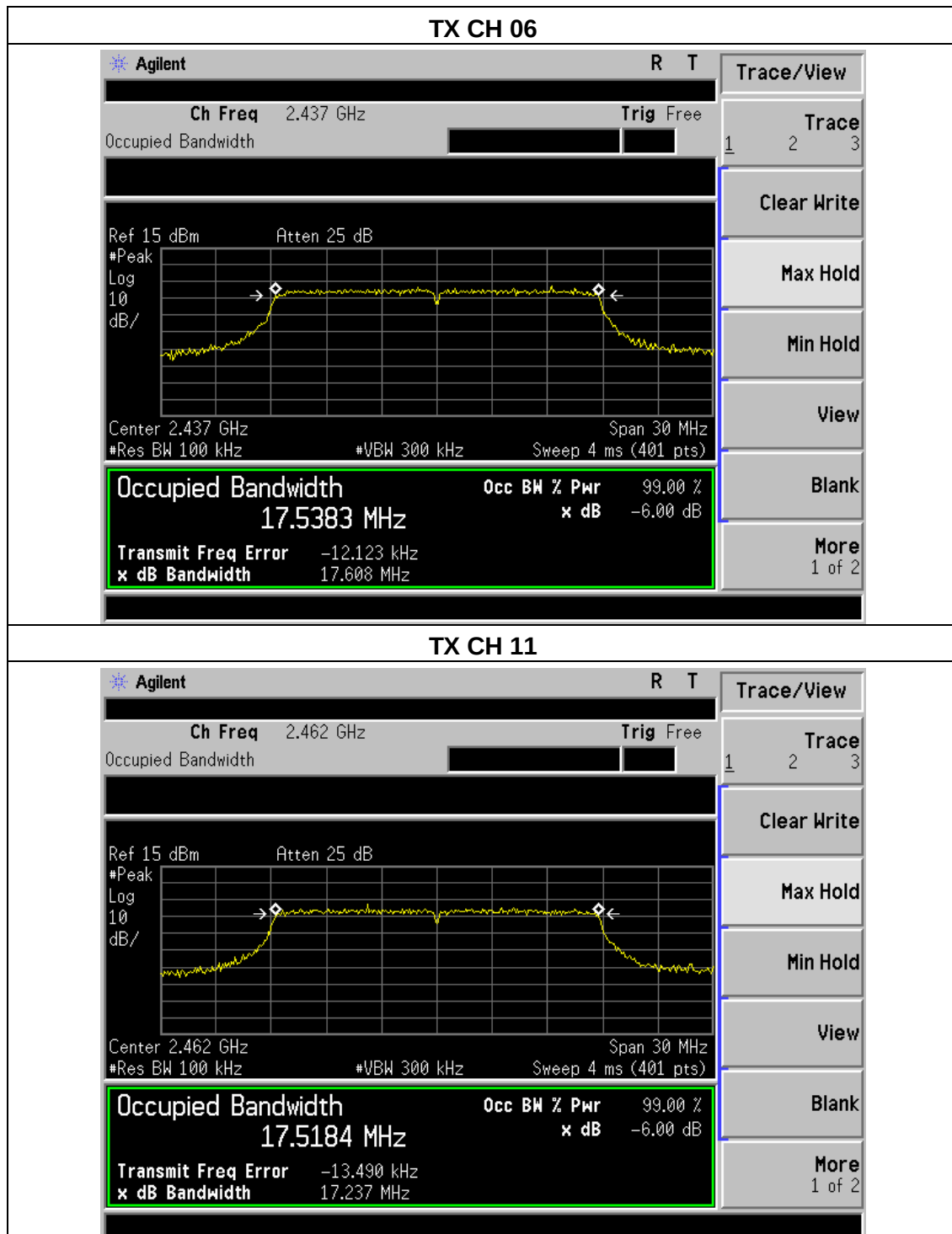




EUT :	CDW.4982660-00	Model Name :	CDW.4982660-00
Temperature :	25°C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V from PC
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.577	500	Pass
Middle	2437	17.608	500	Pass
High	2462	17.237	500	Pass







6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**6.1.5 TEST RESULTS**

EUT :	CDW.4982660-00	Model Name :	CDW.4982660-00
Temperature :	25°C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V from PC
Test Mode :	TX b/g/n(20M)		

802.11b Mode			
Test Channel	Frequency	Maximum Conducted Output Power(PK)	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	16.75	30
CH06	2437	16.55	30
CH11	2462	16.49	30
802.11g Mode			
CH01	2412	15.85	30
CH06	2437	15.67	30
CH11	2462	15.59	30
802.11n-HT20 Mode			
CH01	2412	13.73	30
CH06	2437	13.65	30
CH11	2462	13.42	30



7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

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 a radiated 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, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.



7.2 TEST SETUP

Conducted Emission Test



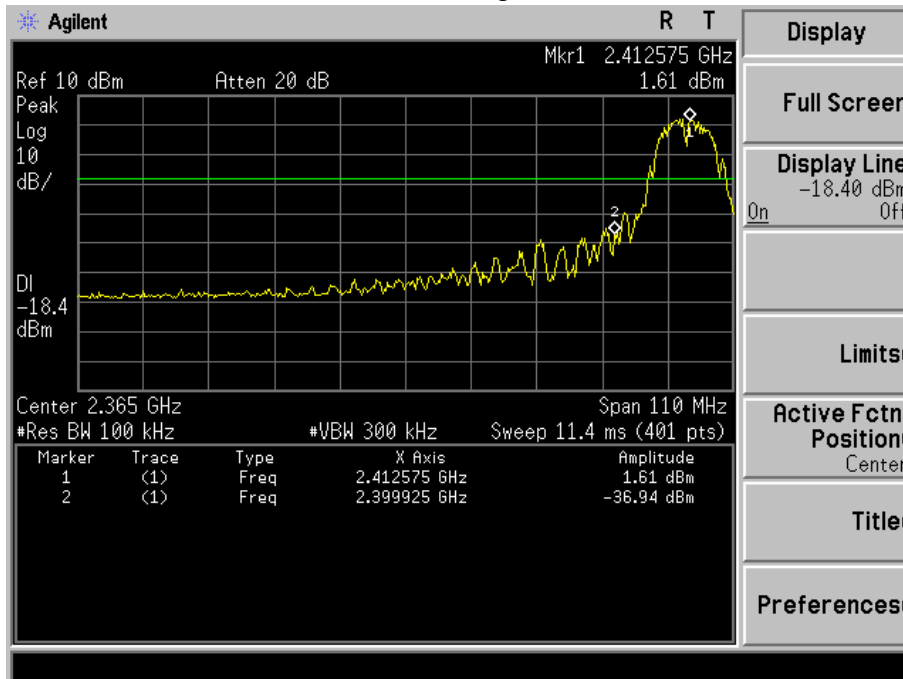
7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

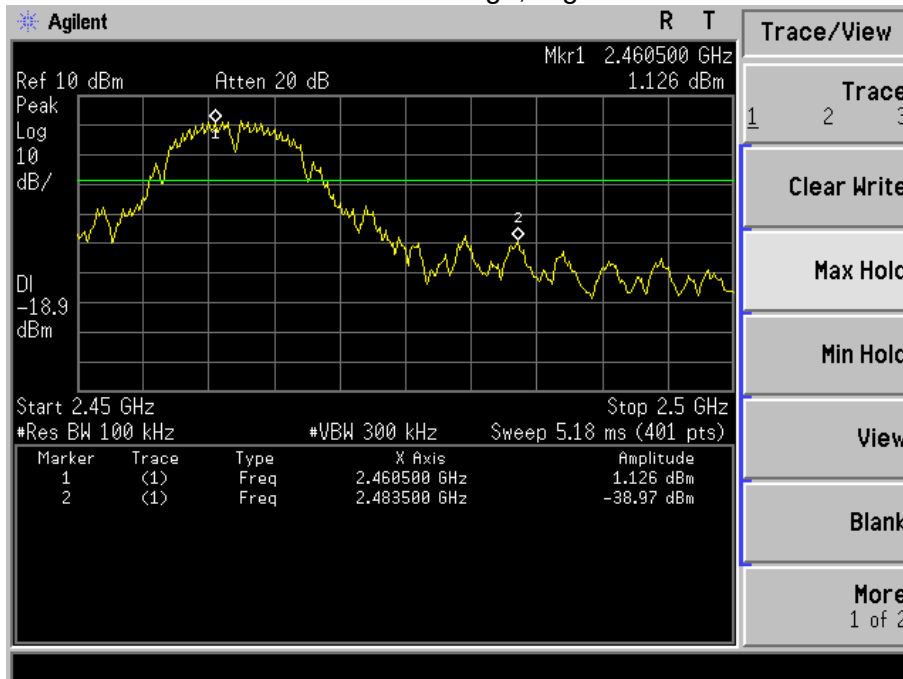
7.4 TEST RESULTS



802.11b: Band Edge, Left Side

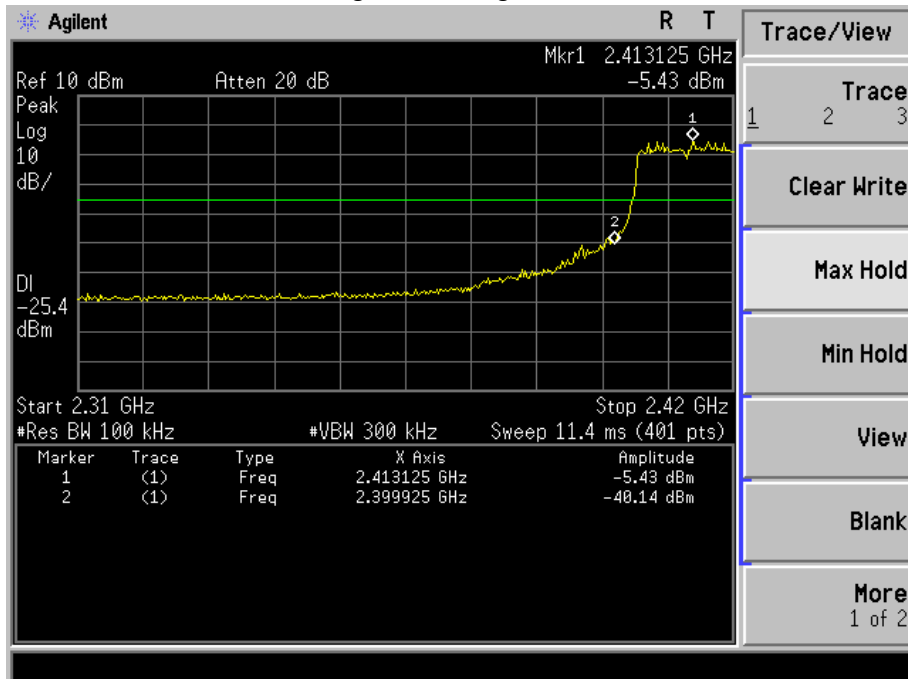


802.11b: Band Edge, Right Side

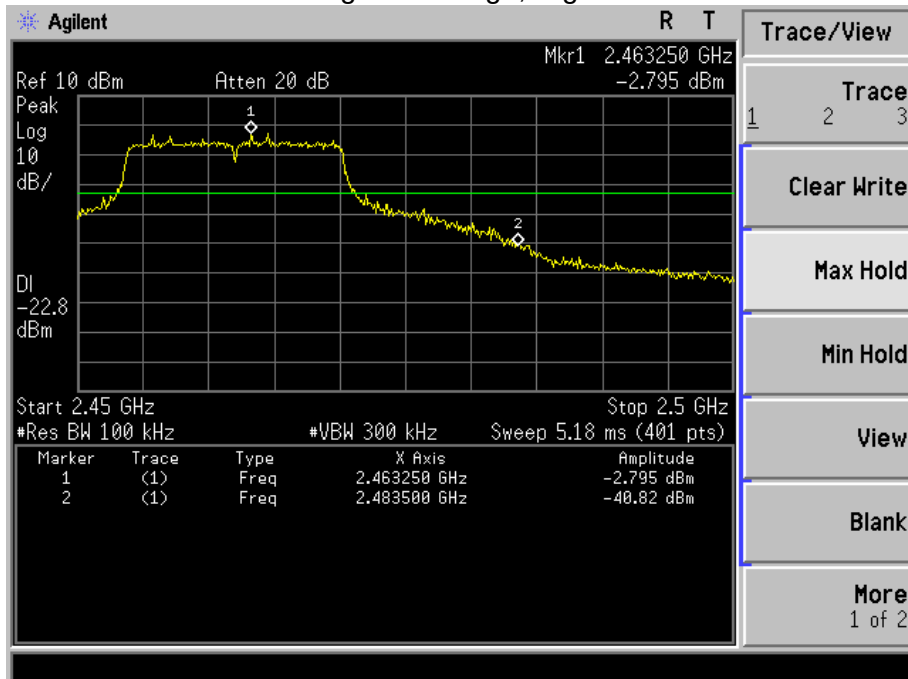




802.11g: Band Edge, Left Side

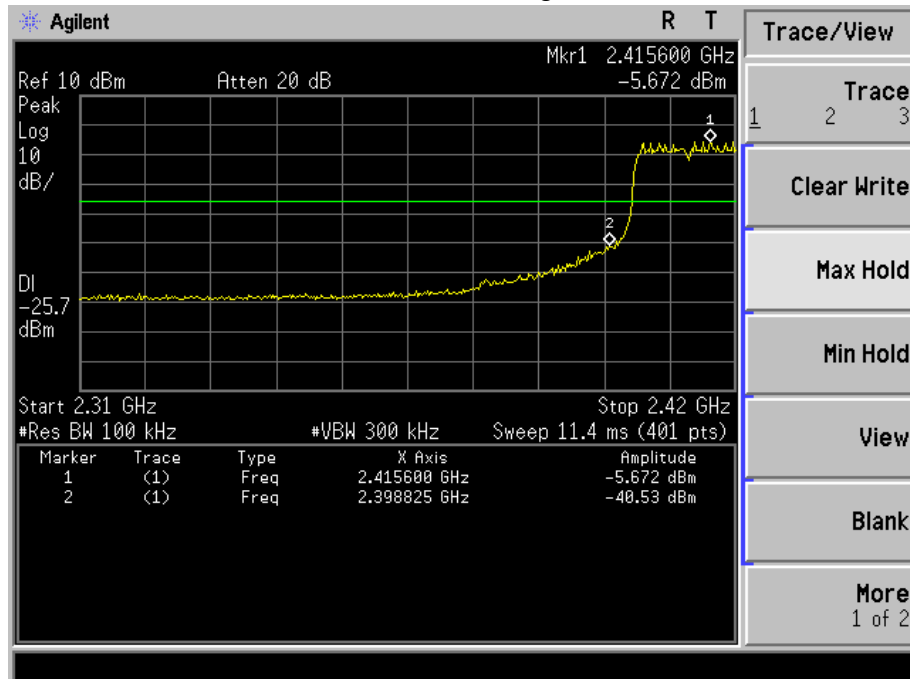


802.11g: Band Edge, Right Side

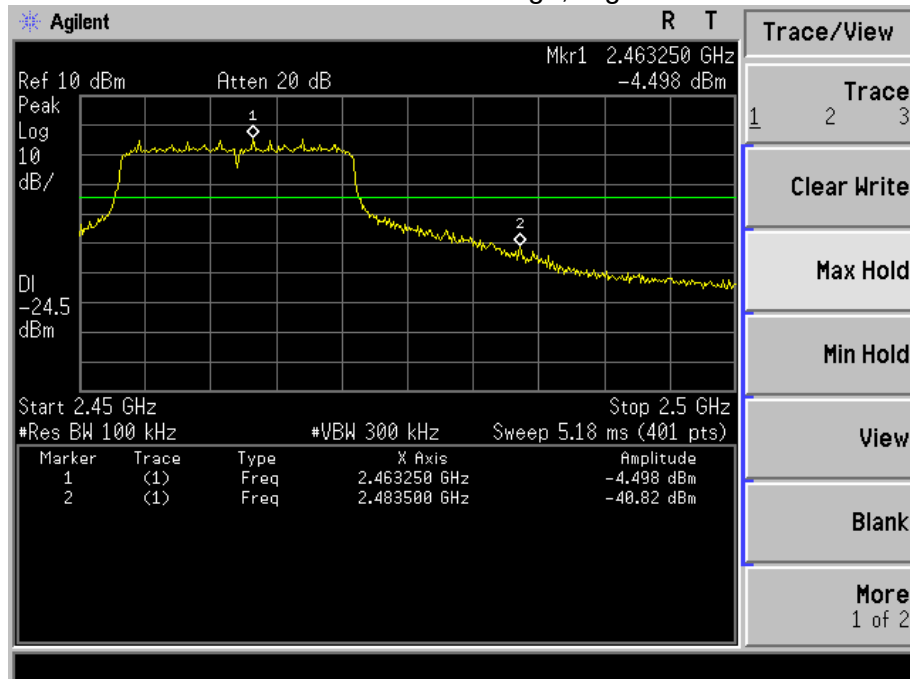




802.11n-HT20: Band Edge, Left Side



802.11n-HT20: Band Edge, Right Side





8. DUTY CYCLE OF TEST SIGNAL

8.1 STANDARD REQUIREMENT

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.2 FORMULA:

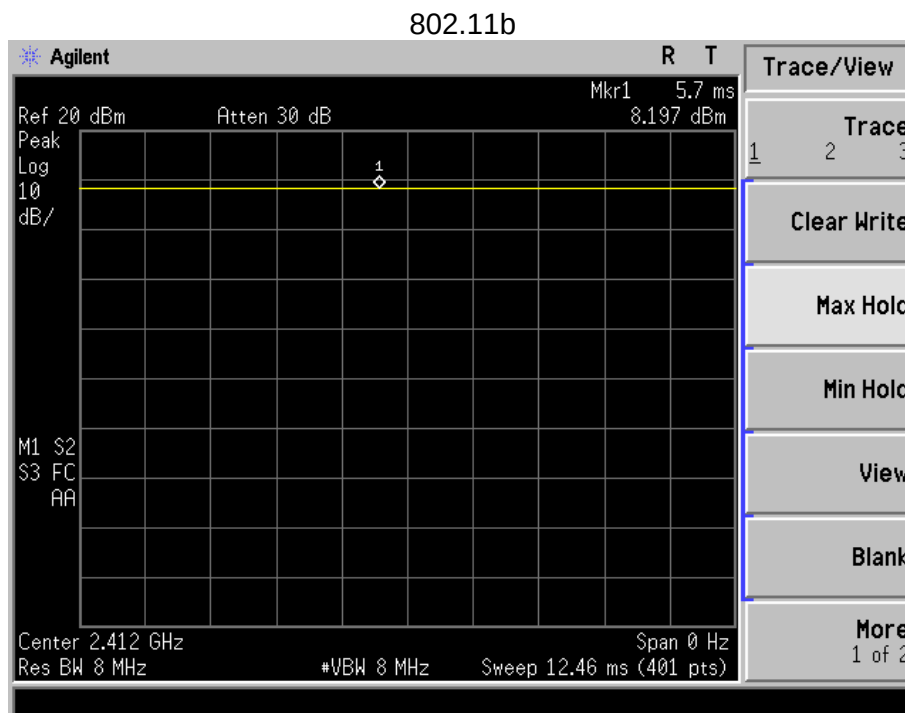
Duty Cycle = $T_{on} / (T_{on} + T_{off})$

Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

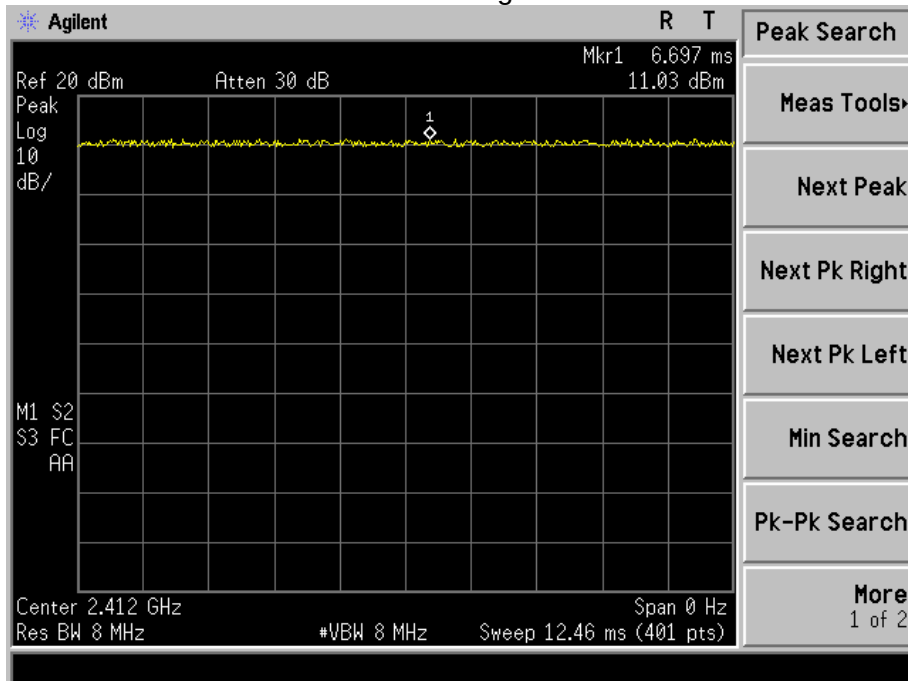
Duty Cycle:

	Duty Cycle	Duty Fator (dB)
802.11b	1	0
802.11g	1	0
802.11n(HT20)	1	0

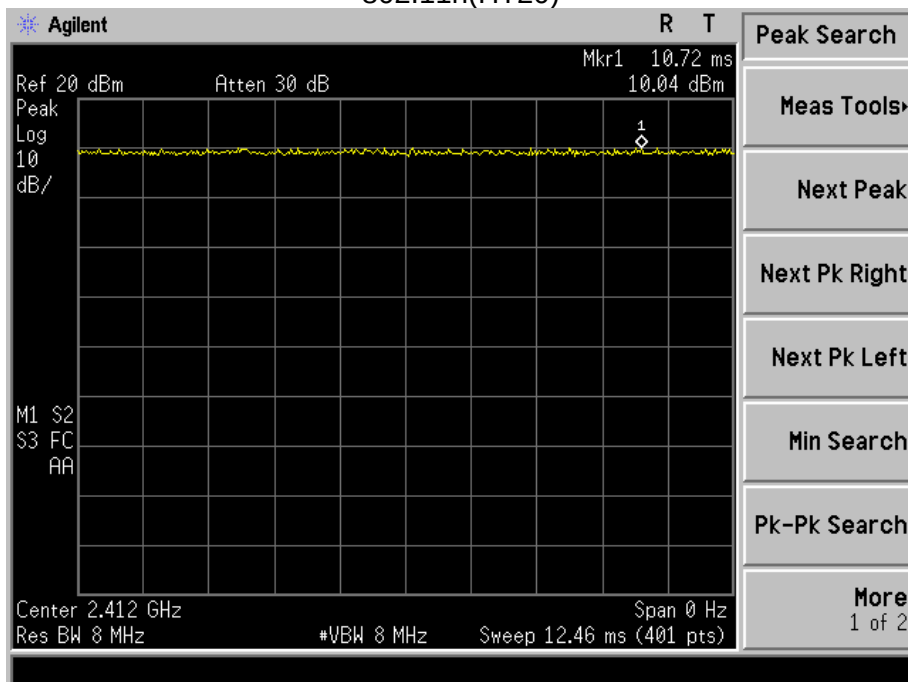




802.11g



802.11n(HT20)





9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

9.2 EUT ANTENNA

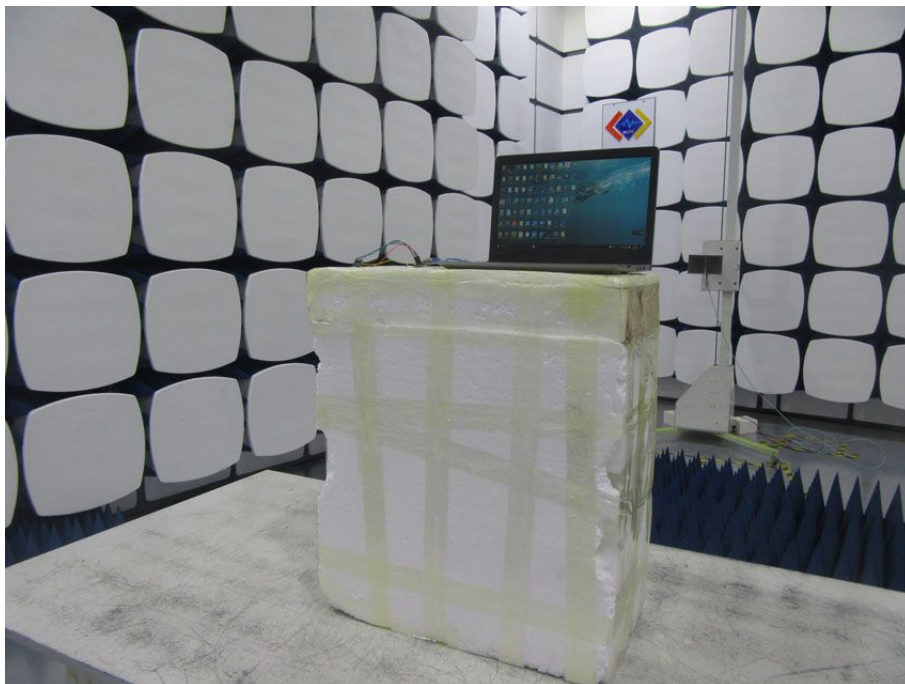
The EUT antenna is permanent connection and non-detachable (PCB) antenna. It comply with the standard requirement.

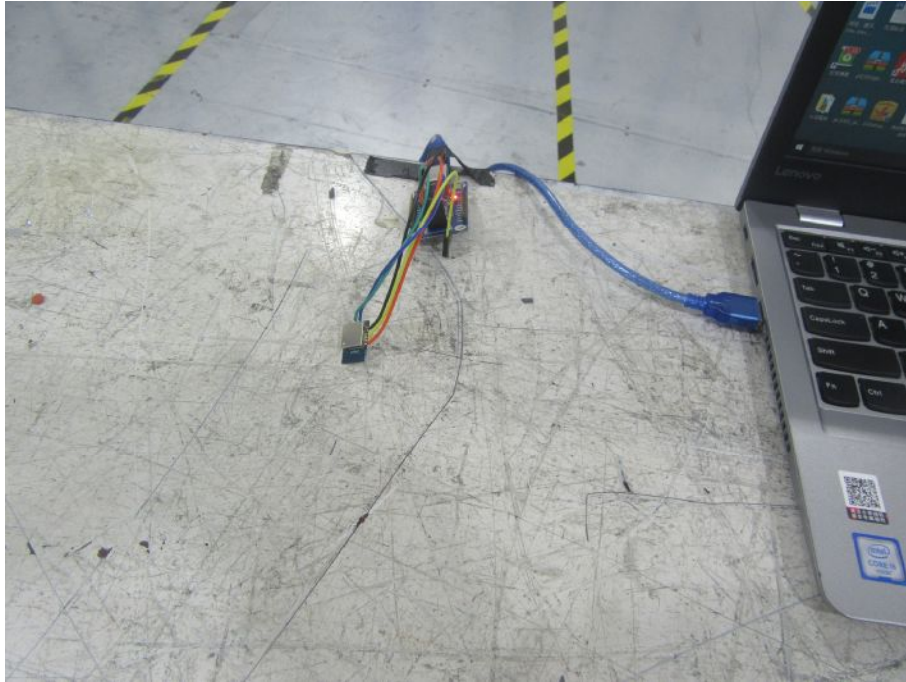
10. EUT TEST PHOTO

Conducted Measurement Photos

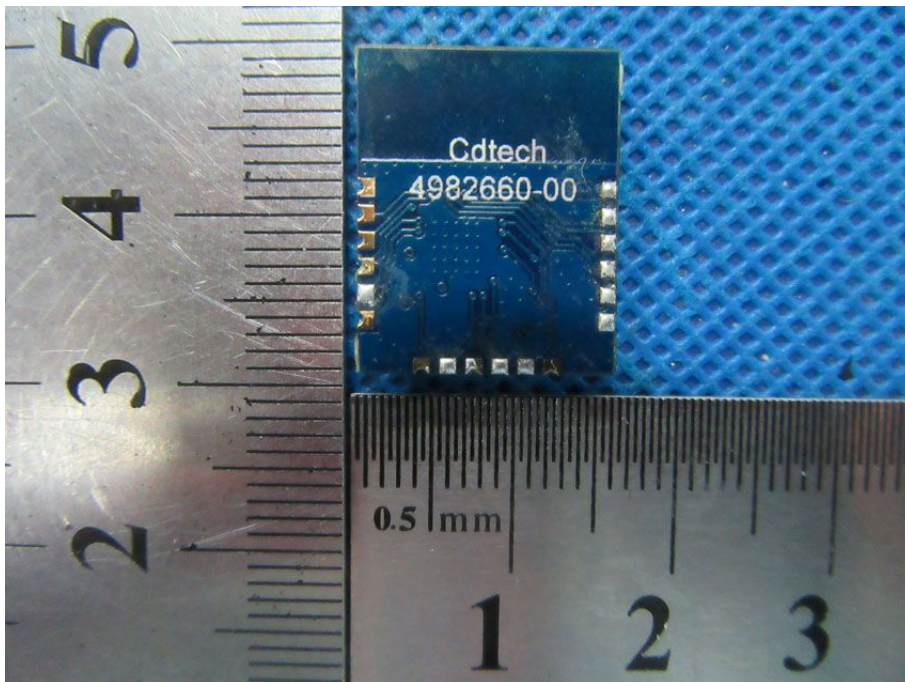
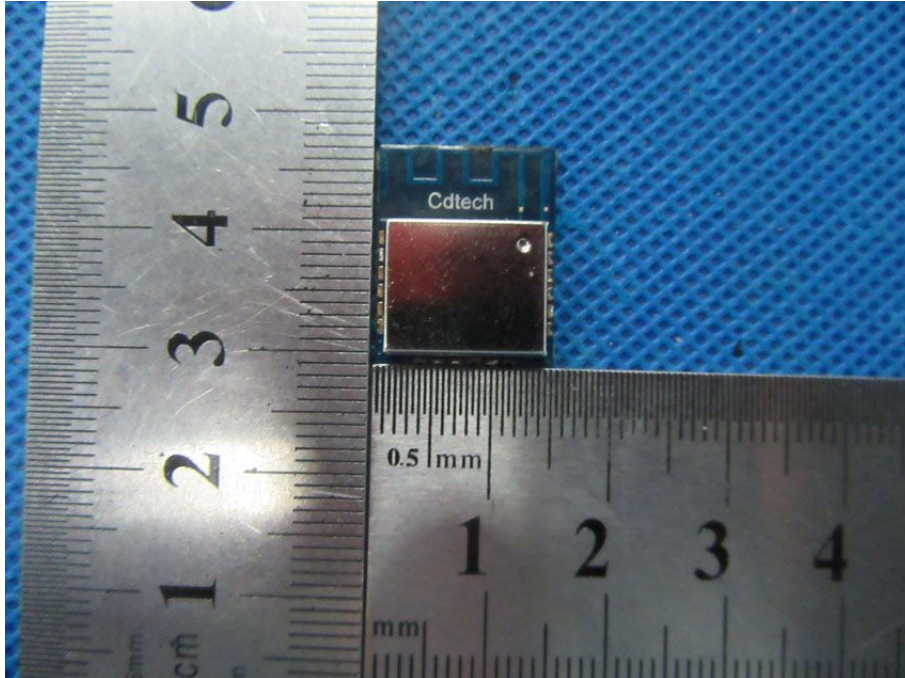


Radiated Measurement Photos





11. EUT PHOTO



***** END OF REPORT *****