

Variant FCC Test Report

Report No.: RF180209C22A

FCC ID: UK7-DW6A

Test Model: DW6F1

Series Model: DW6A1, DW6B1, DW6D1

Received Date: Feb. 09, 2018

Test Date: Jul. 23, 2018 ~ Sep. 21, 2018

Issued Date: Oct. 02, 2018

Applicant: Fossil Group, Inc.

Address: 901 S. Central Expwy., Richardson, TX 75080 USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

(R.O.C)

Test Location: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan

Hsien 333, Taiwan, R.O.C.

FCC Registration /

788550 / TW0003

Designation Number:





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Report No.: RF180209C22A Page No. 1 / 45 Report Format Version: 6.1.1 Reference No.: 180913C01



Table of Contents

Re	Release Control Record4					
1	Cer	tificate of Conformity	5			
2	Sun	nmary of Test Results	6			
	2.1	Measurement Uncertainty	6			
	2.2	Modification Record	6			
3	Ger	neral Information	7			
		General Description of EUT				
	3.2	Description of Test Modes				
	0.0	3.2.1 Test Mode Applicability and Tested Channel Detail				
		Duty Cycle of Test Signal				
	3.4	Description of Support Units				
	3.5	General Description of Applied Standards				
		• • • • • • • • • • • • • • • • • • • •				
4		t Types and Results				
	4.1	Radiated Emission and Bandedge Measurement				
		4.1.1 Limits of Radiated Emission and Bandedge Measurement				
		4.1.2 Test instruments				
		4.1.4 Deviation from Test Standard				
		4.1.5 Test Set Up				
		4.1.6 EUT Operating Conditions				
		4.1.7 Test Results				
	4.2	6 dB Bandwidth Measurement				
		4.2.1 Limits of 6 dB Bandwidth Measurement				
		4.2.2 Test Setup				
		4.2.3 Test Instruments				
		4.2.4 Test Procedure				
		4.2.5 Deviation from Test Standard				
		4.2.7 Test Results				
	4.3	Occupied Bandwidth Measurement				
		4.3.1 Test Setup				
		4.3.2 Test Instruments				
		4.3.3 Test Procedure				
		4.3.4 Deviation from Test Standard				
		4.3.5 EUT Operating Conditions				
		4.3.6 Test Results				
	4.4	Conducted Output Power Measurement				
		4.4.1 Limits of Conducted Output Power Measurement				
		4.4.3 Test Instruments				
		4.4.4 Test Procedures				
		4.4.5 Deviation from Test Standard				
		4.4.6 EUT Operating Conditions				
		4.4.7 Test Results	34			
	4.5	Power Spectral Density Measurement				
		4.5.1 Limits of Power Spectral Density Measurement				
		4.5.2 Test Setup				
		4.5.3 Test Instruments				
		4.5.4 Test Procedure				
		4.5.6 EUT Operating Condition				
		4.5.7 Test Results				
			55			



4.6 Conducted Out of Band Emission Measurement	_
4.6.1 Limits of Conducted Out of Band Emission Measurement	37
4.6.2 Test Setup	37
4.6.3 Test Instruments	37
4.6.4 Test Procedure	
4.6.5 Deviation from Test Standard	37
4.6.6 EUT Operating Condition	37
4.6.7 Test Results	38
5 Pictures of Test Arrangements	41
Annex A- Band-edge measurement	42
Appendix – Information on the Testing Laboratories	45



Release Control Record

Issue No.	Description	Date Issued
RF180209C22A	Original Release	Oct. 02, 2018

Page No. 4 / 45 Report Format Version: 6.1.1



1 Certificate of Conformity

Product: Smart Watch

Test Model: DW6F1

Series Model: DW6A1, DW6B1, DW6D1

Sample Status: Identical Prototype

Applicant: Fossil Group, Inc.

Test Date: Jul. 23, 2018 ~ Sep. 21, 2018

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Gina Liu / Specialist

Approved by : , Date: Oct. 02, 2018

Dylan Chiou / Project Engineer



2 Summary of Test Results

	47 CFR FCC Part 15, Subpart C (Section 15.247)							
FCC Clause	Test Item	Result	Remarks					
15.207	AC Power Conducted Emission	N/A	Refer to Note					
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.9 dB at 2483.50 MHz.					
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.					
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.					
	Occupied Bandwidth Measurement	Pass	Reference only					
15.247(b)	Conducted power	Pass	Meet the requirement of limit.					
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.					
15.203	Antenna Requirement	Pass	No antenna connector is used.					

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expended Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
Radiated Emissions up to 1 GHZ	200 MHz ~ 1000 MHz	2.95 dB
Redicted Emissions above 4 CUI-	1 GHz ~ 18 GHz	2.26 dB
Radiated Emissions above 1 GHz	18 GHz ~ 40 GHz	1.94 dB

2.2 Modification Record

There were no modifications required for compliance.



Report Format Version: 6.1.1

3 General Information

3.1 General Description of EUT

Product	Smart Watch
Test Model	DW6F1
Series Model	DW6A1, DW6B1, DW6D1
Status of EUT	Identical Prototype
Dawar Cumply Dating	5 Vdc (host equipment or adapter or cradle)
Power Supply Rating	3.8 Vdc (battery)
Modulation Type	CCK, DQPSK, DBPSK for DSSS
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps
Transfer Rate	802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps
	802.11n: up to 72.2 Mbps
Operating Frequency	2412 ~ 2472 MHz
Number of Channel	13 for 802.11b, 802.11g, 802.11n (HT20)
Output Power	102.329 mW
Antenna Type	Loop antenna
Antenna Connector	N/A
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

Note:

- 1. This report is issued as a supplementary report to BV CPS report no. RF180209C22. The difference compared with original report is adding channel 12 and 13. Except test item of AC Power Conducted Emission, other test items were re-tested in this report.
- 2. All models are listed as below.

Model	odel Antenna Gain (dBi) 2.4G / BT GPS		Description	
wodei			Description	
DW6F1	-7.03	-5.6	The models have the come levent singuit LCD namel and	
DW6A1	-7.22	-5.67	The models have the same layout, circuit, LCD panel and components, but different appearance & brand. Therefore, only	
DW6B1	-8.86	-7.12	DW6F1 was chosen for worst test.	
DW6D1	-7.76	-5.75	DWOFT was chosen for worst test.	

3. The EUT provide one completed transmitter and one receiver.

Modulation Mode	Tx Function	
802.11b	1TX	
802.11g	1TX	
802.11n (HT20)	1TX	

- 4. The EUT's accessories list refers to Ext. Pho.
- 5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.



3.2 Description of Test Modes

13 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	3 2422		2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		



3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure		Applic	able To		Description
Mode	RE≥1G	RE<1G	PLC	APCM	Description
-	V	-	-	\checkmark	-

Where RE≥1G: Radiated Emission above 1 GHz

RE<1G: Radiated Emission below 1 GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane.

NOTE: "-"means no effect.

Radiated Emission Test (Above 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

□ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 13	12, 13	DSSS	DBPSK	1.0
-	802.11g	1 to 13	12, 13	OFDM	BPSK	6.0
-	802.11n (HT20)	1 to 13	12, 13	OFDM	BPSK	6.5

Bandedge Measurement:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 13	12, 13	DSSS	DBPSK	1.0
-	802.11g	1 to 13	12, 13	OFDM	BPSK	6.0
-	802.11n (HT20)	1 to 13	12, 13	OFDM	BPSK	6.5

Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel		Modulation Type	Data Rate (Mbps)	
-	802.11b	1 to 13	12, 13	DSSS	DBPSK	1.0	
-	802.11g	1 to 13	12, 13	OFDM	BPSK	6.0	
-	802.11n (HT20)	1 to 13	12, 13	OFDM	BPSK	6.5	

Report No.: RF180209C22A Page No. 9 / 45 Report Format Version: 6.1.1

Reference No.: 180913C01



Test Condition:

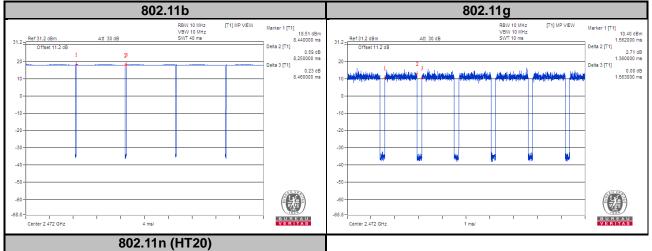
Applicable To	Environmental Conditions	Input Power	Tested by	
RE≥1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Greg Lin	
APCM	APCM 25 deg. C, 65 % RH		Gavin Wu	

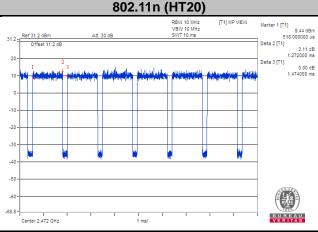
3.3 Duty Cycle of Test Signal

802.11b: Duty cycle = 8.25/8.46 = 0.975, Duty factor = 10 * log(1/0.975) = 0.11

802.11g: Duty cycle = 1.36/1.563 = 0.87, Duty factor = $10 * \log(1/0.87) = 0.60$

802.11n (HT20): Duty cycle = 1.272/1.474 = 0.863, Duty factor = $10 * \log(1/0.863) = 0.64$







3.4 Description of Support Units

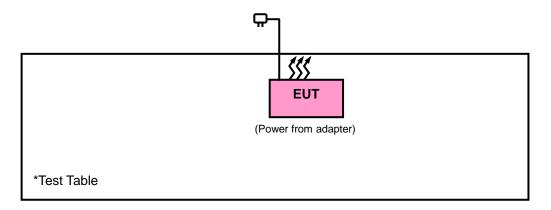
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Adapter	HTC	TC U250	N/A	N/A

No.	Signal Cable Description Of The Above Support Units
1.	USB cable 115 cm

Note:

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247) KDB 558074 D01 15.247 Meas Guidance v05

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

Report No.: RF180209C22A Page No. 11 / 45 Report Format Version: 6.1.1 Reference No.: 180913C01

^{1.} All power cords of the above support units are non-shielded (1.8m).



4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/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

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Report No.: RF180209C22A Page No. 12 / 45 Report Format Version: 6.1.1

Reference No.: 180913C01



4.1.2 Test Instruments

Description & Manufacturer	Model No. Serial		Date of Calibration	Due Date of Calibration
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 11, 2018	Apr. 10, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	100115	Nov. 23, 2017	Nov. 22, 2018
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Nov. 29, 2017	Nov. 28, 2018
HORN Antenna SCHWARZBECK	9120D	9120D-1169	Dec. 12, 2017	Dec. 13, 2018
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 01, 2017	Nov. 30, 2018
Loop Antenna	EM-6879	269	Aug. 11, 2017 Sep. 07, 2018	Aug. 10, 2018 Sep. 06, 2019
Preamplifier	0.4.470	0044440000	Aug. 08, 2017	Aug. 07, 2018
Agilent (Below 1GHz)	8447D	2944A10638	Aug. 08, 2018	Aug. 07, 2019
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 22, 2018	Feb. 21, 2019
RF signal cable	SUCOFLEX 104	CABLE-CH9-(250	Aug. 08, 2017	Aug. 07, 2018
HUBER+SUHNER		795/4)	Aug. 08, 2018	Aug. 07, 2019
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM- SM-8000	CABLE-CH9-02 (248780+171006)	Jan. 15, 2018	Jan. 14, 2019
RF signal cable	8D-FB	Cable-CH9-01	Aug. 01, 2017	Jul. 31, 2018
WOKEN Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	Jul. 31, 2018 NA	Jul. 30, 2019 NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
High Speed Peak Power Meter	ML2495A	1012010	Aug. 15, 2017	Aug. 14, 2018
Meter Anritsu	WILZ495A	1012010	Sep. 05, 2018	Sep. 04, 2019
Power Sensor Anritsu	MA2411B	1126085	May 25, 2018	May 24, 2019

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Chamber 9.
- 3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1 GHz if tested.
- 4. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
- 5. The IC Site Registration No. is IC 7450F-9.



4.1.3 Test Procedures

For Radiated Emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz. (11b: RBW = 1 MHz, VBW =10 Hz; 11g: RBW = 1 MHz, VBW = 1 kHz; 11n (HT20): RBW = 1 MHz, VBW = 1 kHz
- 4. All modes of operation were investigated and the worst-case emissions are reported.

Report No.: RF180209C22A Page No. 14 / 45 Report Format Version: 6.1.1

Reference No.: 180913C01

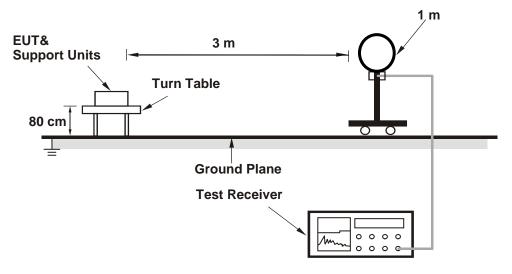


4.1.4 Deviation from Test Standard

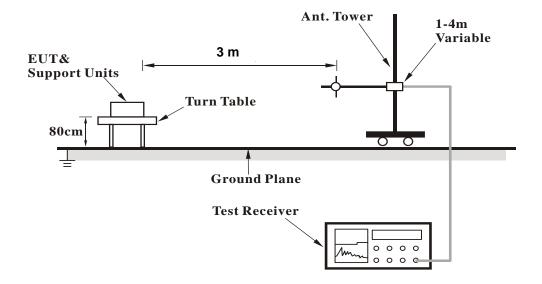
No deviation.

4.1.5 Test Set Up

<Radiated Emission below 30 MHz>

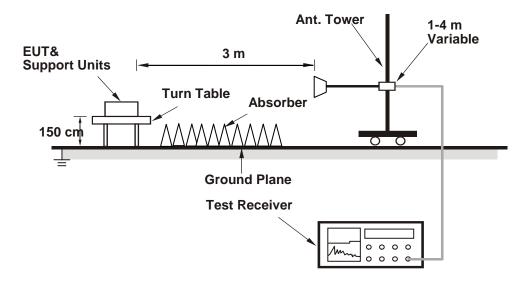


<Radiated Emission 30 MHz to 1 GHz>





<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

Above 1 GHz Data:

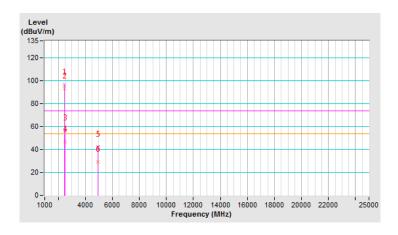
802.11b

CHANNEL	TX Channel 12	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2467.00	96.8 PK			1.60 H	54	65.10	31.70		
2	*2467.00	93.1 AV			1.60 H	54	61.40	31.70		
3	2484.70	56.8 PK	74.0	-17.2	1.56 H	57	25.10	31.70		
4	2484.70	46.7 AV	54.0	-7.3	1.56 H	57	15.00	31.70		
5	4934.00	42.5 PK	74.0	-31.5	3.58 H	142	40.90	1.60		
6	4934.00	29.2 AV	54.0	-24.8	3.58 H	142	27.60	1.60		

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

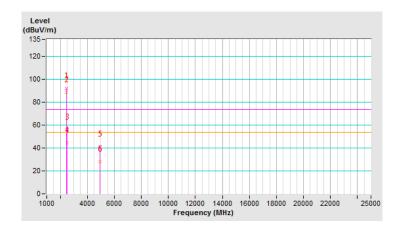




CHANNEL	TX Channel 12	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2467.00	92.1 PK			3.86 V	152	60.40	31.70		
2	*2467.00	88.5 AV			3.86 V	152	56.80	31.70		
3	2483.50	56.2 PK	74.0	-17.8	3.73 V	162	24.50	31.70		
4	2483.50	44.4 AV	54.0	-9.6	3.73 V	162	12.70	31.70		
5	4934.00	41.3 PK	74.0	-32.7	2.19 V	298	39.70	1.60		
6	4934.00	28.1 AV	54.0	-25.9	2.19 V	298	26.50	1.60		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

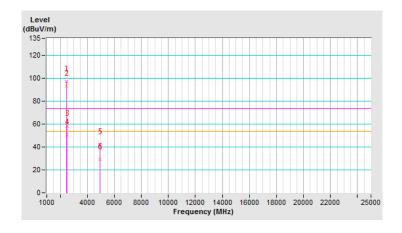




CHANNEL	TX Channel 13	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2472.00	97.0 PK			1.73 H	51	65.30	31.70		
2	*2472.00	93.4 AV			1.73 H	51	61.70	31.70		
3	2486.70	58.6 PK	74.0	-15.4	1.52 H	60	26.90	31.70		
4	2486.70	51.0 AV	54.0	-3.0	1.52 H	60	19.30	31.70		
5	4944.00	42.3 PK	74.0	-31.7	3.42 H	128	40.60	1.70		
6	4944.00	29.0 AV	54.0	-25.0	3.42 H	128	27.30	1.70		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

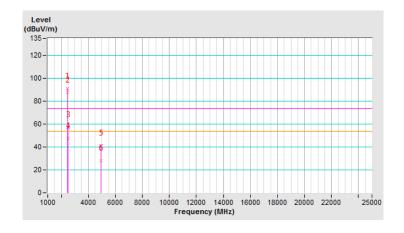




CHANNEL	TX Channel 13	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2472.00	91.2 PK			3.90 V	189	59.50	31.70	
2	*2472.00	87.6 AV			3.90 V	189	55.90	31.70	
3	2486.70	57.2 PK	74.0	-16.8	3.80 V	159	25.50	31.70	
4	2486.70	47.3 AV	54.0	-6.7	3.80 V	159	15.60	31.70	
5	4944.00	41.3 PK	74.0	-32.7	2.06 V	281	39.60	1.70	
6	4944.00	28.3 AV	54.0	-25.7	2.06 V	281	26.60	1.70	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.





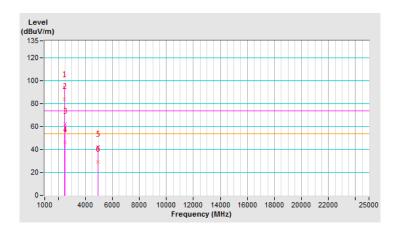
802.11g

CHANNEL	TX Channel 12	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2467.00	94.3 PK			1.90 H	59	62.60	31.70		
2	*2467.00	84.1 AV			1.90 H	59	52.40	31.70		
3	2483.50	62.3 PK	74.0	-11.7	2.22 H	67	30.60	31.70		
4	2483.50	46.3 AV	54.0	-7.7	2.22 H	67	14.60	31.70		
5	4934.00	42.3 PK	74.0	-31.7	3.16 H	125	40.70	1.60		
6	4934.00	29.1 AV	54.0	-24.9	3.16 H	125	27.50	1.60		

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

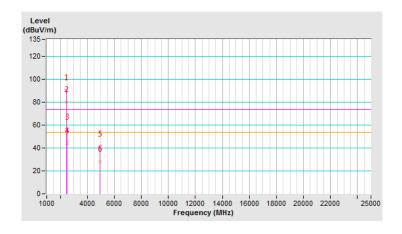




CHANNEL	TX Channel 12	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2467.00	90.4 PK			2.84 V	143	58.70	31.70		
2	*2467.00	80.2 AV			2.84 V	143	48.50	31.70		
3	2483.50	56.2 PK	74.0	-17.8	2.77 V	135	24.50	31.70		
4	2483.50	44.1 AV	54.0	-9.9	2.77 V	135	12.40	31.70		
5	4934.00	41.4 PK	74.0	-32.6	1.93 V	302	39.80	1.60		
6	4934.00	28.3 AV	54.0	-25.7	1.93 V	302	26.70	1.60		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

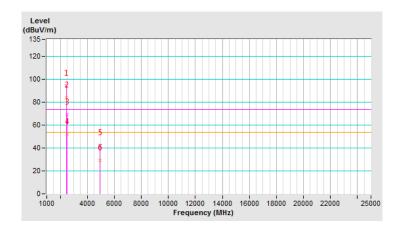




CHANNEL	TX Channel 13	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2472.00	94.5 PK			1.62 H	55	62.80	31.70		
2	*2472.00	83.9 AV			1.62 H	55	52.20	31.70		
3	2483.50	69.4 PK	74.0	-4.6	1.52 H	60	37.70	31.70		
4	2483.50	51.8 AV	54.0	-2.2	1.52 H	60	20.10	31.70		
5	4944.00	42.5 PK	74.0	-31.5	3.31 H	137	40.80	1.70		
6	4944.00	29.1 AV	54.0	-24.9	3.31 H	137	27.40	1.70		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

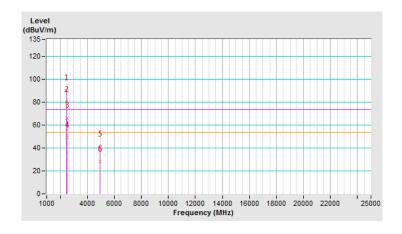




CHANNEL	TX Channel 13	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2472.00	90.3 PK			2.97 V	162	58.60	31.70		
2	*2472.00	80.0 AV			2.97 V	162	48.30	31.70		
3	2483.50	66.5 PK	74.0	-7.5	3.11 V	173	34.80	31.70		
4	2483.50	49.2 AV	54.0	-4.8	3.11 V	173	17.50	31.70		
5	4944.00	41.4 PK	74.0	-32.6	2.42 V	297	39.70	1.70		
6	4944.00	28.3 AV	54.0	-25.7	2.42 V	297	26.60	1.70		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.





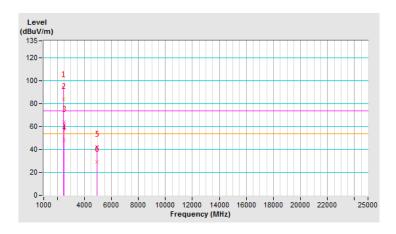
802.11n (20MHz)

CHANNEL	TX Channel 12	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2467.00	94.5 PK			1.55 H	73	62.80	31.70		
2	*2467.00	84.3 AV			1.55 H	73	52.60	31.70		
3	2483.50	64.1 PK	74.0	-9.9	1.61 H	76	32.40	31.70		
4	2483.50	48.3 AV	54.0	-5.7	1.61 H	76	16.60	31.70		
5	4934.00	42.2 PK	74.0	-31.8	3.23 H	127	40.60	1.60		
6	4934.00	29.0 AV	54.0	-25.0	3.23 H	127	27.40	1.60		

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

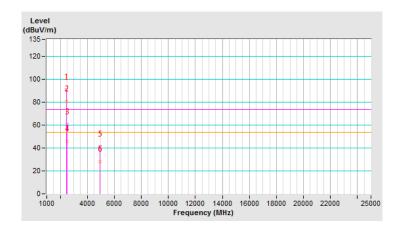




CHANNEL	TX Channel 12	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2467.00	90.9 PK			2.68 V	129	59.20	31.70
2	*2467.00	80.5 AV			2.68 V	129	48.80	31.70
3	2483.50	60.9 PK	74.0	-13.1	2.56 V	135	29.20	31.70
4	2483.50	45.8 AV	54.0	-8.2	2.56 V	135	14.10	31.70
5	4934.00	41.1 PK	74.0	-32.9	2.33 V	304	39.50	1.60
6	4934.00	28.2 AV	54.0	-25.8	2.33 V	304	26.60	1.60

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

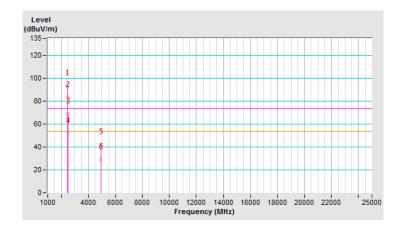




CHANNEL	TX Channel 13	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2472.00	93.6 PK			1.50 H	49	61.90	31.70	
2	*2472.00	83.6 AV			1.50 H	49	51.90	31.70	
3	2483.50	69.3 PK	74.0	-4.7	1.53 H	63	37.60	31.70	
4	2483.50	52.1 AV	54.0	-1.9	1.53 H	63	20.40	31.70	
5	4944.00	42.2 PK	74.0	-31.8	3.42 H	158	40.50	1.70	
6	4944.00	29.0 AV	54.0	-25.0	3.42 H	158	27.30	1.70	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.

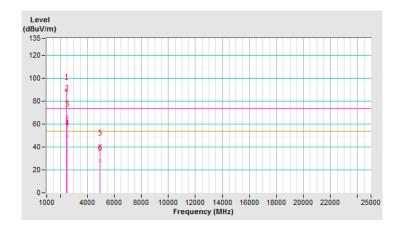




CHANNEL	TX Channel 13	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2472.00	90.0 PK			2.76 V	133	58.30	31.70
2	*2472.00	79.9 AV			2.76 V	133	48.20	31.70
3	2483.50	66.4 PK	74.0	-7.6	2.84 V	122	34.70	31.70
4	2483.50	49.5 AV	54.0	-4.5	2.84 V	122	17.80	31.70
5	4944.00	41.0 PK	74.0	-33.0	2.58 V	283	39.30	1.70
6	4944.00	28.1 AV	54.0	-25.9	2.58 V	283	26.40	1.70

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.



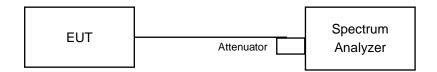


4.2 6 dB Bandwidth Measurement

4.2.1 Limits of 6 dB Bandwidth Measurement

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

4.2.2 Test Setup



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

- a. Set resolution bandwidth (RBW) = 100 kHz
- b. Set the video bandwidth (VBW) \geq 3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.2.5 Deviation from Test Standard

No deviation.

4.2.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

Report No.: RF180209C22A Page No. 29 / 45

Reference No.: 180913C01



4.2.7 Test Results

802.11b

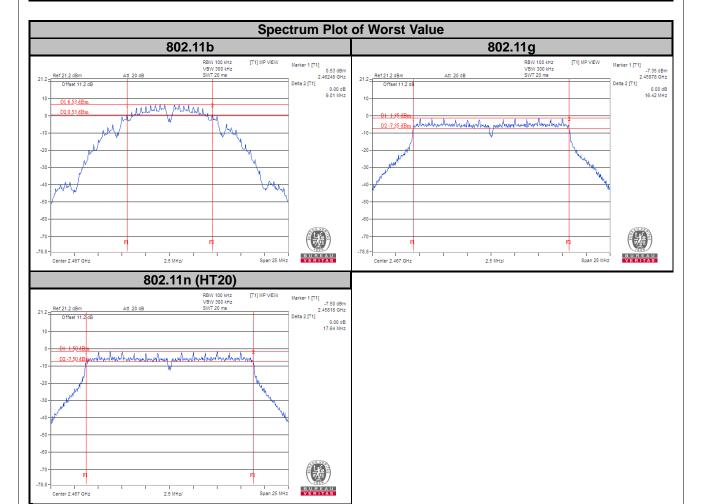
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
12	2467	9.01	0.5	Pass
13	2472	8.60	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
12	2467	16.42	0.5	Pass
13	2472	16.42	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
12	2467	17.64	0.5	Pass
13	2472	17.63	0.5	Pass



Report No.: RF180209C22A Page No. 30 / 45 Report Format Version: 6.1.1 Reference No.: 180913C01



4.3 Occupied Bandwidth Measurement

4.3.1 Test Setup



4.3.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to PEAK. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

4.3.4 Deviation from Test Standard

No deviation.

4.3.5 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

Report No.: RF180209C22A Page No. 31 / 45 Report Format Version: 6.1.1

Reference No.: 180913C01



4.3.6 Test Results

802.11b

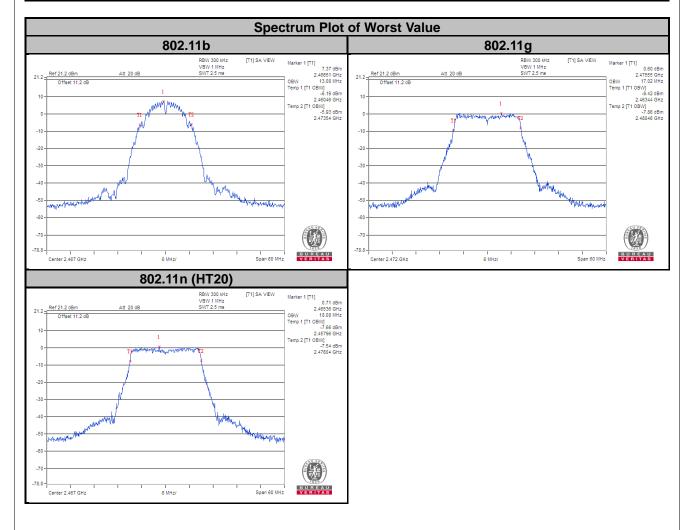
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
12	2467	13.08	Pass
13	2472	13.08	Pass

802.11g

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
12	2467	16.92	Pass
13	2472	17.02	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
12	2467	18.08	Pass
13	2472	18.08	Pass





Report Format Version: 6.1.1

4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt (30 dBm)

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

Report No.: RF180209C22A Page No. 33 / 45



4.4.7 Test Results

802.11b

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
12	2467	65.464	18.16	30	Pass
13	2472	64.565	18.10	30	Pass

802.11g

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
12	2467	101.625	20.07	30	Pass
13	2472	96.828	19.86	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
12	2467	92.045	19.64	30	Pass
13	2472	89.536	19.52	30	Pass

Report No.: RF180209C22A Page No. 34 / 45
Reference No.: 180913C01



4.5 **Power Spectral Density Measurement**

Limits of Power Spectral Density Measurement 4.5.1

The Maximum of Power Spectral Density Measurement is 8 dBm.

4.5.2 Test Setup



4.5.3 **Test Instruments**

Refer to section 4.1.2 to get information of above instrument.

Test Procedure 4.5.4

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d. Set the VBW \geq 3 × 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 within the RBW.

4.5.5 **Deviation from Test Standard**

No deviation.

4.5.6 **EUT Operating Condition**

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

Report No.: RF180209C22A Page No. 35 / 45 Report Format Version: 6.1.1

Reference No.: 180913C01



4.5.7 Test Results

802.11b

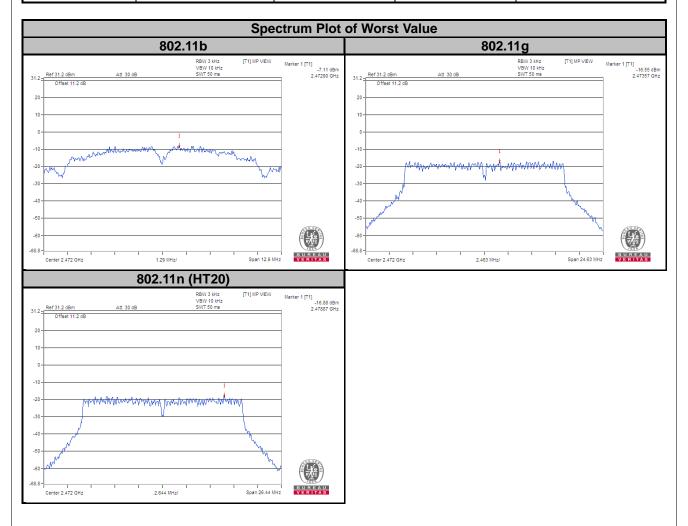
Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
12	2467	-7.36	8	Pass
13	2472	-7.11	8	Pass

802.11g

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
12	2467	-16.67	8	Pass
13	2472	-16.55	8	Pass

802.11n (HT20)

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
12	2467	-17.13	8	Pass
13	2472	-16.88	8	Pass



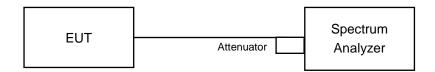


4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below -20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep = auto couple.
- 5. Trace Mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

Report No.: RF180209C22A Page No. 37 / 45 Report Format Version: 6.1.1

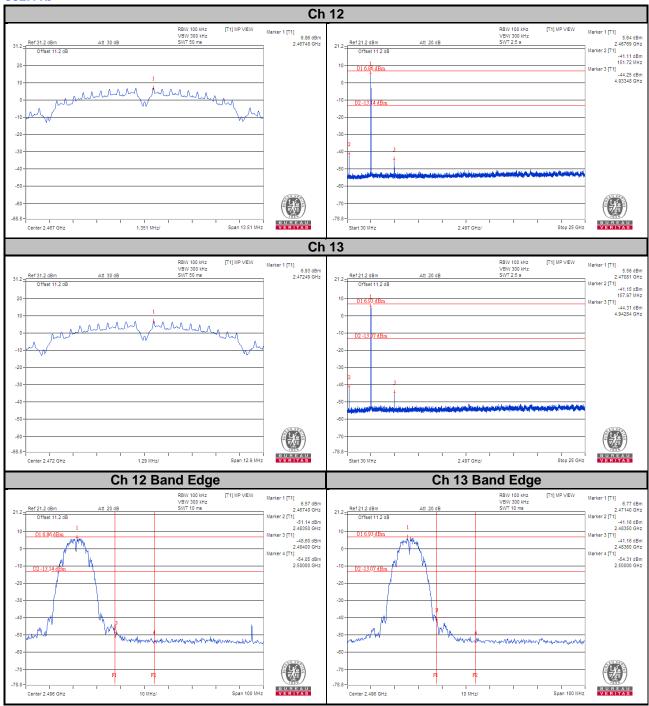
Reference No.: 180913C01



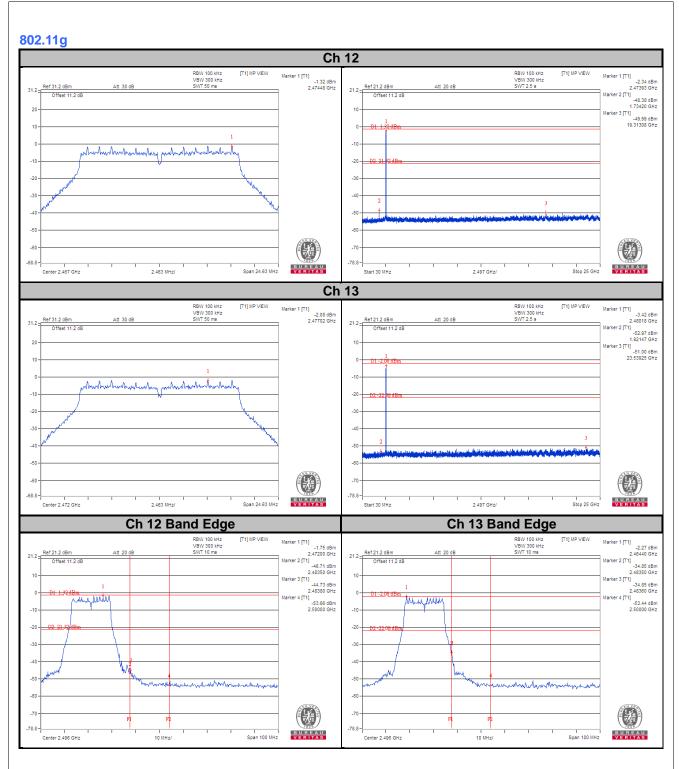
4.6.7 Test Results

The spectrum plots are attached on the following images. D1 line indicates the highest level, and D2 line indicates the 20 dB offset below D1. It shows compliance with the requirement.

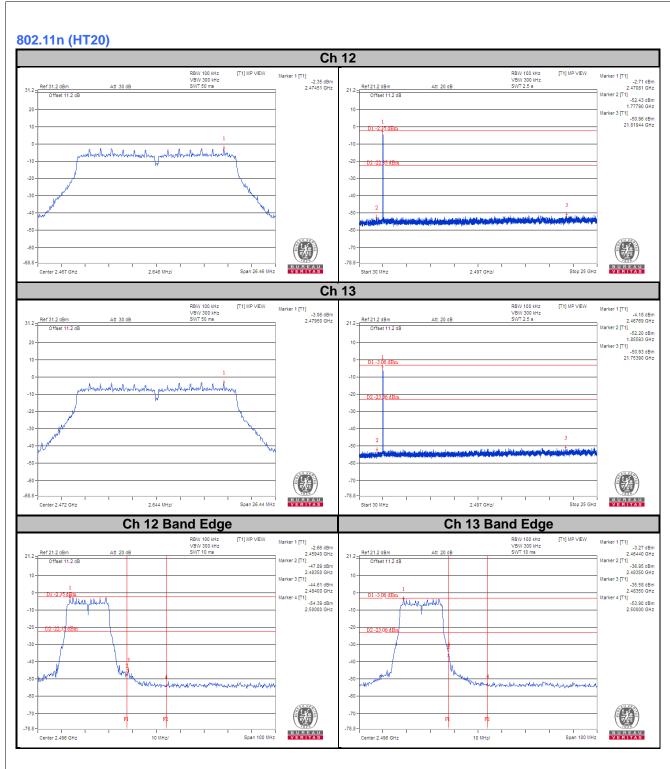
802.11b











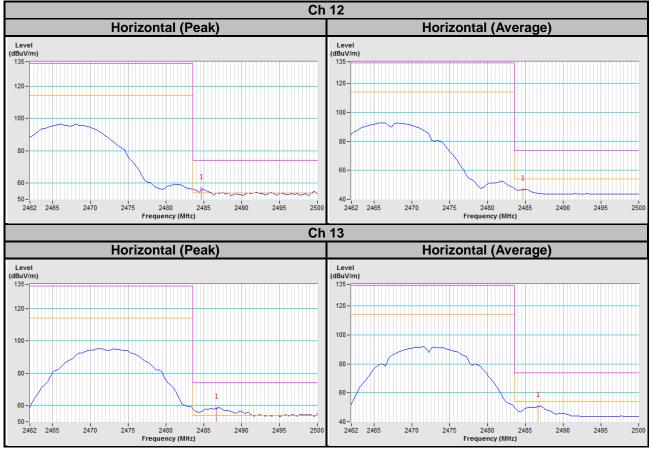


5 Pictures of Test Arrangements					
Please refer to the attached file (Test Setup Photo).					



Annex A- Band-edge measurement

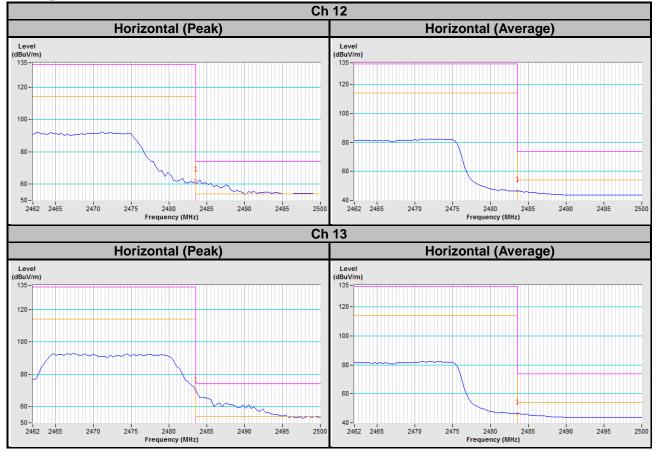
802.11b



Note: The EUT had been pre-test on the positioned of Horizontal and Vertical. The worst case was found when positioned on **Horizontal**.



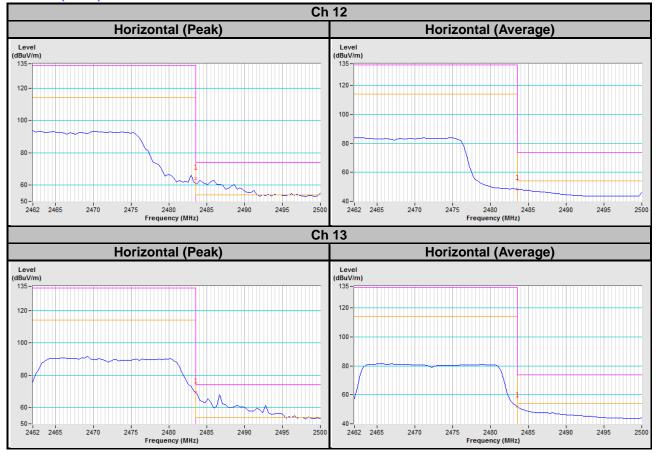




Note: The EUT had been pre-test on the positioned of Horizontal and Vertical. The worst case was found when positioned on **Horizontal**.



802.11n (HT20)



Note: The EUT had been pre-test on the positioned of Horizontal and Vertical. The worst case was found when positioned on **Horizontal**.



Appendix - Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

Hsin Chu EMC/RF/Telecom Lab

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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Report No.: RF180209C22A Page No. 45 / 45 Report Format Version: 6.1.1

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