

# **FCC Test Report**

Report No.: RF160526C24-1

FCC ID: NM8G-2PW4100

Test Model: G-2PW4100

Received Date: May 26, 2016

Test Date: Jun. 14, 2016 ~ Jun. 23, 2016

Issued Date: Aug. 04, 2016

**Applicant:** HTC Corporation

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(R.O.C)

Test Location (1): No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan

Hsien 333, Taiwan, R.O.C.





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# **Release Control Record**

Issue No.	Description	Date Issued
RF160526C24-1	Original Release	Aug. 04, 2016

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### 1 Certificate of Conformity

Product: Smartphone

Test Model: G-2PW4100

Sample Status: Production Unit

**Applicant:** HTC Corporation

**Test Date:** Jun. 14, 2016 ~ Jun. 23, 2016

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 EMC characteristics under the conditions specified in this report.

Prepared by : \_\_\_\_\_\_\_\_, Date: \_\_\_\_\_\_\_\_\_, Aug. 04, 2016

Ivonne Wu / Supervisor

Stanley Wu / Assistant Manager

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# 2 Summary of Test Results

	47 CFR FCC Part 15, Subpart C (Section 15.247)							
FCC Clause	Test Item	Result	Remarks					
15.207			Meet the requirement of limit.  Minimum passing margin is -14.02 dB at 0.55273 MHz.					
15.205 & 209			Meet the requirement of limit.  Minimum passing margin is -4.07 dB at 30.00 MHz.					
15.247(d)	15.247(d) Band Edge Measurement		Meet the requirement of limit.					
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.					
15.247(b)	Conducted power	Pass	Meet the requirement of limit.					
15.247(e)	15.247(e) Power Spectral Density		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:

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Frequency	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Padiated Emissions up to 1 CHz	30 MHz ~ 200 MHz	2.93 dB
Radiated Emissions up to 1 GHz	200 MHz ~1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
naulateu Emissions above 1 GHZ	18 GHz ~ 40 GHz	1.94 dB

### 2.2 Modification Record

There were no modifications required for compliance.

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# 3 General Information

# 3.1 General Description of EUT

Product	Smartphone
Test Model	G-2PW4100
Status of EUT	Production Unit
Power Supply Rating	5.0 Vdc (adapter or host equipment)
Fower Supply nating	3.85 Vdc (Li-ion battery)
Modulation Type	GFSK
Transfer Rate	1 Mbps
Operating Frequency	2402 ~ 2480 MHz
Number of Channel	40
Output Power	2.004 mW
Antenna Type	PIFA antenna with -1.2 dBi gain
Antenna Connector	N/A
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

### Note:

- 1. The EUT's accessories list refers to Ext. Pho.
- 2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

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# 3.2 Description of Test Modes

40 channels are provided to this EUT:

Channel	Freq. (MHz)						
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480



#### 3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure		Applic	able To	Barrieller.	
Mode	RE≥1G	RE<1G	PLC	APCM	Description
-	V	√	<b>√</b>	V	-

Where RE≥1G: Radiated Emission above 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 X-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	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	0, 19, 39	GFSK	1

#### Radiated Emission Test (Below 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	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	0	GFSK	1

# **Power Line Conducted Emission Test:**

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
 Available Channel
 Tested Channel
 Modulation Type
 Data Rate (Mbps)

 0 to 39
 0
 GFSK
 1

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### **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	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	0, 19, 39	GFSK	1

### **Test Condition:**

Applicable To	Environmental Conditions	Input Power	Tested by
RE≥1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Toby Tian
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Toby Tian
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Toby Tian
АРСМ	25 deg. C, 65 % RH	3.85 Vdc	Taylor Liu

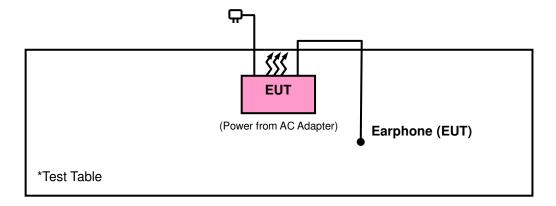
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### 3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

### 3.3.1 Configuration of System under Test



## 3.4 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) 558074 D01 DTS Meas Guidance v03r05

ANSI C63.10-2013

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

**NOTE:** The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

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### 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.

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### 4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Jan. 21, 2016	Jan. 20, 2017
Spectrum Analyzer Agilent	N9010A	MY52220314	Sep. 03, 2015	Sep. 02, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2015	Dec. 16, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Jan. 07, 2016	Jan. 06, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Jan. 04, 2016	Jan. 03, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Jan. 08, 2016	Jan. 07, 2017
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Preamplifier EMCI	EMC 012645	980115	Dec. 21, 2015	Dec. 20, 2016
Preamplifier EMCI	EMC 184045	980116	Dec. 21, 2015	Dec. 20, 2016
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2015	Dec. 27, 2016
Power Meter Anritsu	ML2495A	1232002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor Anritsu	MA2411B	1207325	Sep. 21, 2015	Sep. 20, 2016
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 12, 2015	Oct. 11, 2016
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 12, 2015	Oct. 11, 2016
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 12, 2015	Oct. 11, 2016
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA

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 10.
- 3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 690701.
- 5. The IC Site Registration No. is IC7450F-10.



### 4.1.3 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 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.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor (10 log(1/duty cycle)).
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
- 5. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4	Deviation	from	Toot	Ctand	محط
4.1.4	Deviation	HOH	resi	Stantu	aru

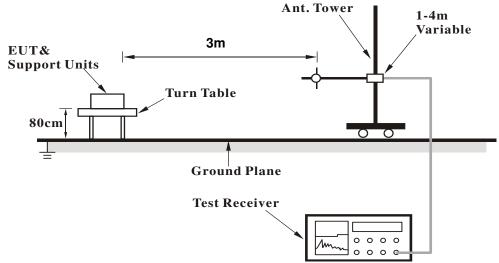
No deviation.

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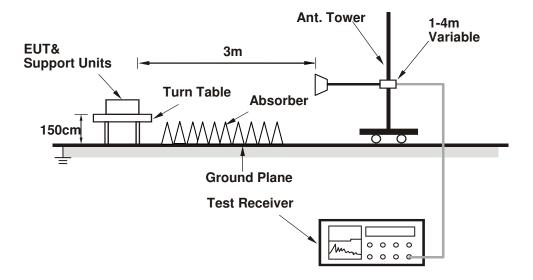


### 4.1.5 Test Set Up

# < Frequency Range below 1 GHz>



# <Frequency Range 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 the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.

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### 4.1.7 Test Results

# **ABOVE 1 GHz DATA:**

<b>EUT Test Condition</b>		Measurement Detail			
Channel	Channel 0	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz		Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian		

	Antennal Polarity & Test Distance: Horizontal at 3 m											
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark		
2356	34.49	41.12	54	-19.51	26.81	4.05	37.49	208	64	Average		
2356	56.23	62.86	74	-17.77	26.81	4.05	37.49	208	64	Peak		
2402	89.21	95.73			26.91	4.09	37.52	208	64	Average		
2402	90.57	97.09			26.91	4.09	37.52	208	64	Peak		
2496	34.88	40.77	54	-19.12	27.2	4.16	37.25	208	64	Average		
2496	56.01	61.9	74	-17.99	27.2	4.16	37.25	208	64	Peak		
		А	ntennal P	olarity &	<b>Test Dist</b>	ance: Ver	tical at 3	m				
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark		
2372	39.76	46.33	54	-14.24	26.86	4.07	37.5	102	345	Average		
2372	57.17	63.74	74	-16.83	26.86	4.07	37.5	102	345	Peak		
2402	85.66	92.18			26.91	4.09	37.52	102	345	Average		
2402	86.87	93.39			26.91	4.09	37.52	102	345	Peak		
2490	36.63	42.59	54	-17.37	27.2	4.16	37.32	102	345	Average		
2490	57.45	63.41	74	-16.55	27.2	4.16	37.32	102	345	Peak		

### Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss Preamp Factor Margin value = Emission level – Limit value
- 2. 2402 MHz: Fundamental frequency.

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<b>EUT Test Condition</b>		Measurement Detail			
Channel	Channel 19	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian		

	An	tennal Po	larity & T	est Dista	nce: Horiz	ontal at 3	m		
Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
34.25	40.93	54	-19.75	26.77	4.04	37.49	204	63	Average
56.47	63.15	74	-17.53	26.77	4.04	37.49	204	63	Peak
89.58	95.86			27.06	4.12	37.46	204	63	Average
90.63	96.91			27.06	4.12	37.46	204	63	Peak
34.89	40.78	54	-19.11	27.2	4.16	37.25	204	63	Average
56.01	61.9	74	-17.99	27.2	4.16	37.25	204	63	Peak
	Α	ntennal P	olarity &	Test Dist	ance: Ver	tical at 3	m		
Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
37.44	44.01	54	-16.56	26.86	4.07	37.5	102	348	Average
55.74	62.31	74	-18.26	26.86	4.07	37.5	102	348	Peak
86.08	92.36			27.06	4.12	37.46	102	348	Average
87.02	93.3			27.06	4.12	37.46	102	348	Peak
36.94	42.83	54	-17.06	27.2	4.16	37.25	102	348	Average
	Level (dBuV/m)  34.25  56.47  89.58  90.63  34.89  56.01  Emission Level (dBuV/m)  37.44  55.74  86.08  87.02	Emission Level (dBuV/m) (dBuV)  34.25 40.93  56.47 63.15  89.58 95.86  90.63 96.91  34.89 40.78  56.01 61.9  Emission Read Level (dBuV/m) (dBuV)  37.44 44.01  55.74 62.31  86.08 92.36  87.02 93.3	Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)           34.25         40.93         54           56.47         63.15         74           89.58         95.86           90.63         96.91           34.89         40.78         54           56.01         61.9         74           Antennal P           Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)           37.44         44.01         54           55.74         62.31         74           86.08         92.36         87.02           87.02         93.3	Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)           34.25         40.93         54         -19.75           56.47         63.15         74         -17.53           89.58         95.86         90.63         96.91           34.89         40.78         54         -19.11           56.01         61.9         74         -17.99           Antennal Polarity &           Emission Level (dBuV/m)         Limit (dBuV/m)         (dB)           37.44         44.01         54         -16.56           55.74         62.31         74         -18.26           86.08         92.36         87.02         93.3	Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)           34.25         40.93         54         -19.75         26.77           56.47         63.15         74         -17.53         26.77           89.58         95.86         27.06           90.63         96.91         27.06           34.89         40.78         54         -19.11         27.2           56.01         61.9         74         -17.99         27.2           Antennal Polarity & Test Dist           Emission Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)            37.44         44.01         54         -16.56         26.86           55.74         62.31         74         -18.26         26.86           86.08         92.36         27.06           87.02         93.3         27.06	Emission Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)         Cable Loss (dB)           34.25         40.93         54         -19.75         26.77         4.04           56.47         63.15         74         -17.53         26.77         4.04           89.58         95.86         27.06         4.12           90.63         96.91         27.06         4.12           34.89         40.78         54         -19.11         27.2         4.16           56.01         61.9         74         -17.99         27.2         4.16           Antennal Polarity & Test Distance: Ver           Emission Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)         Cable Loss (dB)           37.44         44.01         54         -16.56         26.86         4.07           55.74         62.31         74         -18.26         26.86         4.07           86.08         92.36         27.06         4.12           87.02         93.3         27.06         4.12	Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dB)           34.25         40.93         54         -19.75         26.77         4.04         37.49           56.47         63.15         74         -17.53         26.77         4.04         37.49           89.58         95.86         27.06         4.12         37.46           90.63         96.91         27.06         4.12         37.46           34.89         40.78         54         -19.11         27.2         4.16         37.25           56.01         61.9         74         -17.99         27.2         4.16         37.25           Antennal Polarity & Test Distance: Vertical at 3 I           Emission Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Cable Loss (dB)         Preamp Factor (dB/m)           44.01         54         -16.56         26.86         4.07         37.5           55.74         62.31         74         -18.26         26.86         4.07         37.5           86.08         92.36         27.06         4.12         37.46           87.02         93.3	Level (dBuV/m)         Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Factor (dB/m)         Cable Loss (dB)         Factor (dB)         Height (cm)           34.25         40.93         54         -19.75         26.77         4.04         37.49         204           56.47         63.15         74         -17.53         26.77         4.04         37.49         204           89.58         95.86         27.06         4.12         37.46         204           90.63         96.91         27.06         4.12         37.46         204           34.89         40.78         54         -19.11         27.2         4.16         37.25         204           56.01         61.9         74         -17.99         27.2         4.16         37.25         204           Emission Level (dBuV/m) (dBuV)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)         Preamp Factor (dB)         Height (cm)           37.44         44.01         54         -16.56         26.86         4.07         37.5         102           55.74         62.31         74         -18.26         26.86         4.07         37.5         102           86.08 <td< td=""><td>  Emission   Level (dBuV/m)   (dBuV)   (dBuV/m)   (dB)     Emission   Level (dBuV/m)   (dBuV/m)   (dBuV/m)   (dBuV/m)   (dBuV/m)   (dB)   Emission   Level (dBuV/m)   (dBuV/m)  </td></td<>	Emission   Level (dBuV/m)   (dBuV)   (dBuV/m)   (dB)     Emission   Level (dBuV/m)   (dBuV/m)   (dBuV/m)   (dBuV/m)   (dBuV/m)   (dB)   Emission   Level (dBuV/m)   (dBuV/m)

27.2

37.25

102

348

Peak

4.16

# 2494 Remarks:

 Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor Margin value = Emission level - Limit value

74

-16.61

2. 2440 MHz: Fundamental frequency.

63.28

57.39

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<b>EUT Test Condition</b>		Measurement Detail			
Channel	Channel 39	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian		

		An	tennal Po	larity & T	est Dista	nce: Horiz	ontal at 3	3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2364	34.16	40.77	54	-19.84	26.81	4.07	37.49	242	62	Average
2364	56.32	62.93	74	-17.68	26.81	4.07	37.49	242	62	Peak
2480	89.57	95.59			27.15	4.15	37.32	242	62	Average
2480	90.41	96.43			27.15	4.15	37.32	242	62	Peak
2500	35.01	40.9	54	-18.99	27.2	4.16	37.25	242	62	Average
2500	56.56	62.45	74	-17.44	27.2	4.16	37.25	242	62	Peak
		А	ntennal P	olarity &	Test Dist	ance: Ver	tical at 3	m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2362	37.29	43.92	54	-16.71	26.81	4.05	37.49	102	341	Average
2362	56.55	63.18	74	-17.45	26.81	4.05	37.49	102	341	Peak
2480	86.24	92.26			27.15	4.15	37.32	102	341	Average
2480	87.09	93.11			27.15	4.15	37.32	102	341	Peak
2494	37.16	43.05	54	-16.84	27.2	4.16	37.25	102	341	Average
2494	57.24	63.13	74	-16.76	27.2	4.16	37.25	102	341	Peak

### Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss Preamp Factor Margin value = Emission level - Limit value
- 2. 2480 MHz: Fundamental frequency.

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# 9 kHz ~ 30 MHz DATA:

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

#### 30 MHz ~ 1 GHz WORST-CASE DATA:

<b>EUT Test Condition</b>		Measurement Detail			
Channel	Channel 0	Frequency Range	30 MHz ~ 1 GHz		
Input Power	120 Vac, 60 Hz	HIDETACTOR FUNCTION	Peak (PK) Quasi-peak (QP)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian		

Antennal Polarity & Test Distance: Horizontal at 3 m										
Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
30.73	49.31	40	-9.27	11.98	0.58	31.14	136	226	Peak	
28.52	49	43.5	-14.98	10.27	1.11	31.86	114	125	Peak	
29.18	49.61	43.5	-14.32	9.98	1.27	31.68	103	56	Peak	
19.5	34.05	46	-26.5	15.52	1.93	32	107	248	Peak	
21.86	34.62	46	-24.14	17	2.06	31.82	131	95	Peak	
22.92	33.53	46	-23.08	19.28	2.24	32.13	105	327	Peak	
	А	ntennal P	olarity &	Test Dist	ance: Ver	tical at 3	m			
Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
	Level (dBuV/m) 30.73 28.52 29.18 19.5 21.86 22.92 Emission Level	Emission Level (dBuV/m) (dBuV)  30.73	Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)           30.73         49.31         40           28.52         49         43.5           29.18         49.61         43.5           19.5         34.05         46           21.86         34.62         46           22.92         33.53         46           Antennal P           Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)	Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)           30.73         49.31         40         -9.27           28.52         49         43.5         -14.98           29.18         49.61         43.5         -14.32           19.5         34.05         46         -26.5           21.86         34.62         46         -24.14           22.92         33.53         46         -23.08           Antennal Polarity &           Emission Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)	Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)           30.73         49.31         40         -9.27         11.98           28.52         49         43.5         -14.98         10.27           29.18         49.61         43.5         -14.32         9.98           19.5         34.05         46         -26.5         15.52           21.86         34.62         46         -24.14         17           22.92         33.53         46         -23.08         19.28           Antennal Polarity & Test Dist           Emission Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)	Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)         Cable Loss (dB)           30.73         49.31         40         -9.27         11.98         0.58           28.52         49         43.5         -14.98         10.27         1.11           29.18         49.61         43.5         -14.32         9.98         1.27           19.5         34.05         46         -26.5         15.52         1.93           21.86         34.62         46         -24.14         17         2.06           22.92         33.53         46         -23.08         19.28         2.24           Antennal Polarity & Test Distance: Ver           Emission Level (dBuV/m) (dBuV)         Limit (dBuV/m) (dB)         Margin (dB)         Antenna Factor (dB/m)         Cable Loss (dB)	Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dB)           30.73         49.31         40         -9.27         11.98         0.58         31.14           28.52         49         43.5         -14.98         10.27         1.11         31.86           29.18         49.61         43.5         -14.32         9.98         1.27         31.68           19.5         34.05         46         -26.5         15.52         1.93         32           21.86         34.62         46         -24.14         17         2.06         31.82           22.92         33.53         46         -23.08         19.28         2.24         32.13           Emission Level (dBuV/m) (dBuV/m) (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dB/m)	Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dB)         Antenna Height (cm)           30.73         49.31         40         -9.27         11.98         0.58         31.14         136           28.52         49         43.5         -14.98         10.27         1.11         31.86         114           29.18         49.61         43.5         -14.32         9.98         1.27         31.68         103           19.5         34.05         46         -26.5         15.52         1.93         32         107           21.86         34.62         46         -24.14         17         2.06         31.82         131           22.92         33.53         46         -23.08         19.28         2.24         32.13         105           Antennal Polarity & Test Distance: Vertical at 3 m           Emission Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)         Preamp Factor (dB)         Antenna Height (cm)	Emission Level (dBuV/m)         Read Level (dBuV/m)         Limit (dBuV/m)         Margin (dB/m)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dB)         Antenna Height (cm)         Table Angle (Degree)           30.73         49.31         40         -9.27         11.98         0.58         31.14         136         226           28.52         49         43.5         -14.98         10.27         1.11         31.86         114         125           29.18         49.61         43.5         -14.32         9.98         1.27         31.68         103         56           19.5         34.05         46         -26.5         15.52         1.93         32         107         248           21.86         34.62         46         -24.14         17         2.06         31.82         131         95           22.92         33.53         46         -23.08         19.28         2.24         32.13         105         327           Emission Level (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dB)         Antenna Height (cm)         Cable Angle (Degree)	

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
30	35.93	54.51	40	-4.07	11.98	0.58	31.14	103	359	Peak
90.14	19.6	42.29	43.5	-23.9	8.3	0.97	31.96	117	66	Peak
160.95	25.67	43.75	43.5	-17.83	12.63	1.15	31.86	129	134	Peak
300.63	19.05	36.31	46	-26.95	12.96	1.63	31.85	104	25	Peak
366.59	19.48	35.07	46	-26.52	14.54	1.81	31.94	134	192	Peak
543.13	22.03	33.37	46	-23.97	18.3	2.16	31.8	104	34	Peak

### Remarks:

 Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor Margin value = Emission level – Limit value

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#### 4.2 Conducted Emission Measurement

#### 4.2.1 Limits of Conducted Emission Measurement

Eroguepov (MU=)	Conducted Limit (dBuV)				
Frequency (MHz)	Quasi-peak	Average			
0.15 - 0.5	66 - 56	56 - 46			
0.50 - 5.0	56	46			
5.0 - 30.0	60	50			

#### 4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 16, 2015	Nov. 15, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 26, 2015	Dec. 25, 2016
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 26, 2016	Feb. 25, 2017
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 24, 2015	Jul. 23, 2016
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

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 Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.

#### 4.2.3 Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20 dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

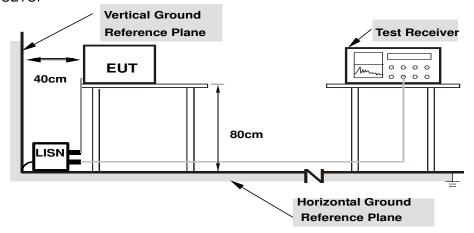
# 4.2.4 Deviation from Test Standard

No deviation.

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### 4.2.5 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

# 4.2.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.



### 4.2.7 Test Results

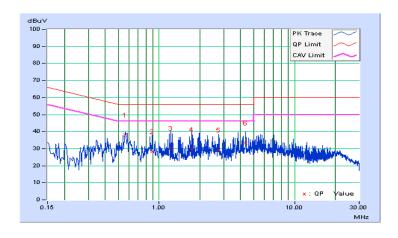
### **CONDUCTED WORST-CASE DATA**

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25℃, 65%RH
Tested by	Toby Tian	Test Date	2016/6/19

	Phase Of Power : Line (L)									
	Frequency	Correction	Readin	Reading Value		Emission Level		nit	Margin	
No		Factor	(dB	uV)	(dB	uV)	(dBuV)		(dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.56055	10.14	27.87	19.46	38.01	29.60	56.00	46.00	-17.99	-16.40
2	0.88508	10.18	18.25	10.33	28.43	20.51	56.00	46.00	-27.57	-25.49
3	1.21743	10.22	20.03	7.49	30.25	17.71	56.00	46.00	-25.75	-28.29
4	1.73746	10.25	19.42	8.90	29.67	19.15	56.00	46.00	-26.33	-26.85
5	2.76188	10.32	19.07	8.50	29.39	18.82	56.00	46.00	-26.61	-27.18
6	4.36889	10.43	22.76	12.64	33.19	23.07	56.00	46.00	-22.81	-22.93

#### Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



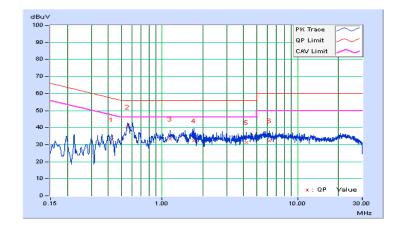


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25℃, 65%RH
Tested by	Toby Tian	Test Date	2016/6/19

	Phase Of Power : Neutral (N)										
	Frequency	Correction		Reading Value		Reading Value Emission Level		Limit		Margin	
No		Factor	(dB	uV)	(dB	uV)	(dB	uV)	(d	B)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.42761	10.13	22.70	15.28	32.83	25.41	57.30	47.30	-24.47	-21.89	
2	0.55273	10.15	30.23	21.83	40.38	31.98	56.00	46.00	-15.62	-14.02	
3	1.14705	10.22	23.15	17.06	33.37	27.28	56.00	46.00	-22.63	-18.72	
4	1.72964	10.26	21.98	15.60	32.24	25.86	56.00	46.00	-23.76	-20.14	
5	4.18903	10.44	20.72	14.55	31.16	24.99	56.00	46.00	-24.84	-21.01	
6	6.21050	10.57	21.66	15.40	32.23	25.97	60.00	50.00	-27.77	-24.03	

#### Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



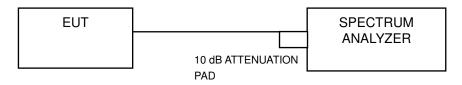


#### 4.3 6 dB Bandwidth Measurement

#### 4.3.1 Limits of 6 dB Bandwidth Measurement

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 Test Setup



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 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

#### 4.3.5 Deviation from Test Standard

No deviation.

### 4.3.6 EUT Operating Conditions

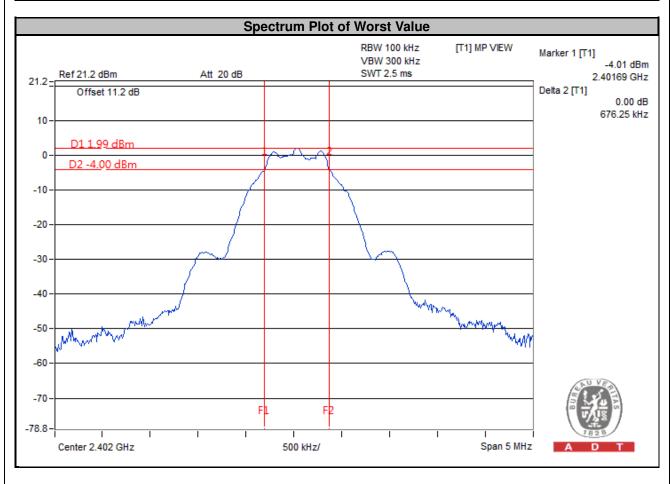
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

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### 4.3.7 Test Result

Channel	Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	676.25	0.5	Pass
19	2440	673.29	0.5	Pass
39	2480	667.62	0.5	Pass



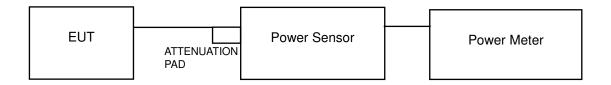


### 4.4 Conducted Output Power Measurement

#### 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 / average power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak / average 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.

#### 4.4.7 Test Results

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
0	2402	1.552	1.91	30	Pass
19	2440	1.982	2.97	30	Pass
39	2480	2.004	3.02	30	Pass

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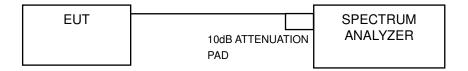


# 4.5 Power Spectral Density Measurement

### 4.5.1 Limits of Power Spectral Density Measurement

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.

# 4.5.4 Test Procedure

- a. Set the RBW = 3 kHz, VBW =10 kHz, Detector = peak.
- b. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
- c. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

### 4.5.5 Deviation from Test Standard

No deviation.

### 4.5.6 EUT Operating Condition

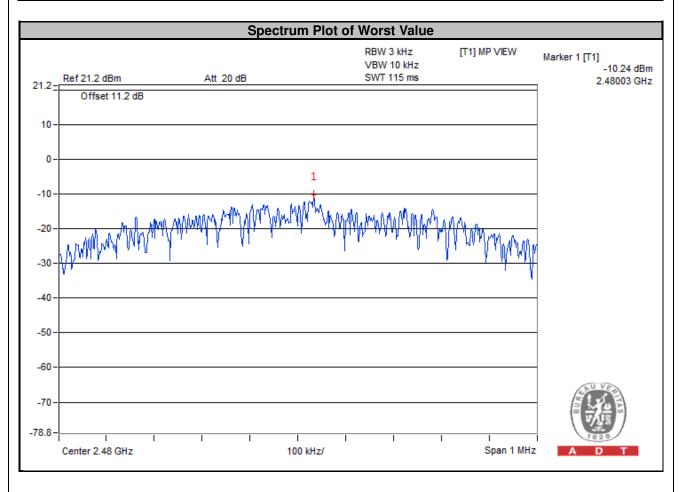
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

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# 4.5.7 Test Results

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	2402	-12.19	8	Pass
19	2440	-10.97	8	Pass
39	2480	-10.24	8	Pass



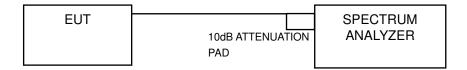


#### 4.6 Conducted Out of Band Emission Measurement

#### 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.

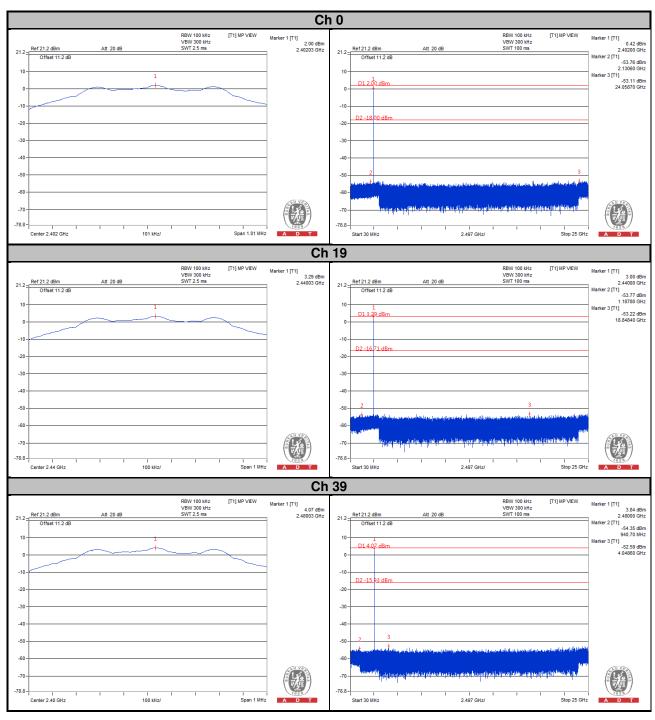
#### 4.6.6 EUT Operating Condition

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

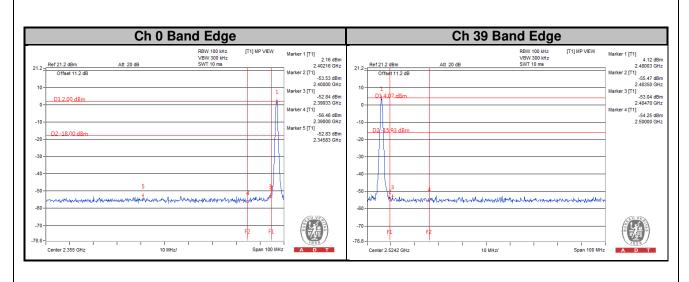
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### 4.6.7 TEST RESULTS









	tures of Test Arrangements	
Please II	efer to the attached file (Test Setup Photo).	

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### 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 accredited and approved according to ISO/IEC 17025.

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

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Web Site: <a href="mailto:www.bureauveritas-adt.com">www.bureauveritas-adt.com</a>

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

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