

FCC Test Report

Report No.: RF170505C03-2

FCC ID: 2AHBN-AP21

Model: AP21

Received Date: May 05, 2017

Test Date: Jun. 27 ~ Jun. 28, 2017

Issued Date: Jul. 13, 2017

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95014

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33383, TAIWAN (R.O.C.)





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Release Control Record

Issue No.	Description	Date Issued
RF170505C03-2	Original release	Jul. 13, 2017



1 Certificate of Conformity

Product: Wi-Fi & BLE Array AP

Brand: Mist

Model: AP21

Sample Status: Engineering sample

Applicant: Mist Systems, Inc.

Test Date: Jun. 27 ~ Jun. 28, 2017

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: Jul. 13, 2017

Polly Chien / Specialist

Approved by: , Date: Jul. 13, 2017

Ken Liu / Senior Manager



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	Pass	Meet the requirement of limit. Minimum passing margin is -4.30dB at 17.65000MHz			
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -8.1dB at 2483.50MHz.			
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.			
15.247(a)(2)	.247(a)(2) 6dB bandwidth		Meet the requirement of limit.			
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	Antenna connector is IPEX not a standard connector.			

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	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
Dedicted Emissions up to 1 CHz	30MHz ~ 200MHz	3.63 dB
Radiated Emissions up to 1 GHz	200MHz ~1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
Radiated Emissions above 1 GHZ	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

Product	Wi-Fi & BLE Array AP		
Brand	Mist		
Model	AP21		
Sample Status	Engineering sample		
Dawer Cumply Dating	12Vdc (adapter)		
Power Supply Rating	55Vdc (POE)		
Modulation Type	GFSK		
Transfer Rate	1Mbps		
Operating Frequency	2402 ~ 2480MHz		
Number of Channel	40		
Channel Spacing	2MHz		
Output Power	3.327mW		
Antenna Type	Refer to note		
Antenna Connector	Refer to note		
Accessory Device	NA		
Data Cable Supplied	NA		

Note:

1. There are three radios for the EUT.

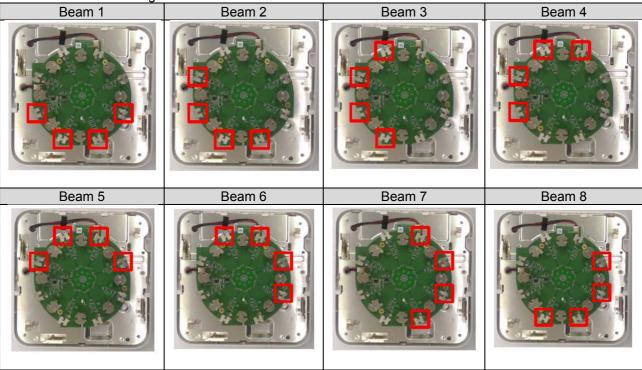
Radio	Antenna	Brand	Model	Function	
Dadia 1	WIFI Ant. 1	WNC	81EAAH15.GEP	IAU ANI 2 4C 9 5C (DV amb)	
Radio 1	WIFI Ant. 2	WNC	81EAAH15.GEQ	WLAN 2.4G & 5G (RX only)	
Dadia 0	WIFI Ant. 1	WNC	81EAAH15.GER	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Radio 2	WIFI Ant. 2	WNC	81EAAH15.GES	WLAN 5G	
Radio 3	BT-Omni Ant.	WNC	81EAAH15.GET	BT LE	



2. The following antennas were provided to the EUT.

Antenna Type	Omni					
Antenna Connector	IPEX					
Coin (dPi)		Frequency				
Gain (dBi)	2.4 GHz	2.45GHz	2.5GHz			
BT-Omni Ant.	2.83	3.28	3.71			
BT-Directional Ant.	2.4 GHz	2.45GHz	2.5GHz			
Beam 1	4.31	4.19	3.90			
Beam 2	4.88	4.61	2.46			
Beam 3	4.82	4.82	2.94			
Beam 4	4.98	4.85	4.20			
Beam 5	4.94	4.87	4.40			
Beam 6	4.47	4.50	4.26			
Beam 7	4.15	4.44	4.16			
Beam 8	4.69	4.54	3.29			

* The maximum antenna gain is chosen for final test.



3. The EUT uses following adapter & PoE. (Support unit only)

Adapter		
Brand	Channel Well Technology	
Model 2ABN036F US		
Input Power	100-240Vac~50/60Hz 1.0A	
Output Power	12.0Vdc / 3.0A	
Power Line 1.45m DC cable without core attached on adapter		

PoE		
Brand Microsemi		
Model PD-9001GR/AT/AC		
Input Power 100-240Vac~50/60Hz 0.67A		
Output Power 55Vdc / 0.6A		

4. Spurious emission of the simultaneous operation (2.4GHz, 5GHz and BT) has been evaluated and no non-compliance was found.



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		APPLICA	ABLE TO	DESCRIPTION	
MODE	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION
Α	\checkmark	V	\checkmark	\checkmark	Power from adapter + BT-Directional Ant.
В		V	\checkmark	-	Power from PoE+ BT-Directional Ant.
С	V	-	-	-	Power from adapter + BT-Omni Ant.

Where

RE≥1G: Radiated Emission above 1GHz &

PLC: Power Line Conducted Emission

RE<1G: Radiated Emission below 1GHz

Bandedge Measurement

APCM: Antenna Port Conducted Measurement

Note:

1. The antenna had been pre-tested on the positioned of each 3 axis. The worst cases were found when positioned on X-plane.

2. "-" means no effect.

Radiated Emission Test (Above 1GHz):

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 CONFIGUURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
A, C	0 to 39	0, 19, 39	GFSK	1

Radiated Emission Test (Below 1GHz):

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

<u> </u>								
EUT CONFIGUURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)				
A, B	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 CONFIGUURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
A, B	0 to 39	0	GFSK	1



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 CONFIGUURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
A	0 to 39	0, 19, 39	GFSK	1

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE≥1G	20deg. C, 69%RH 25deg. C, 70%RH	120Vac, 60Hz	Bond Tseng, Chris Lin
RE<1G	25 deg. C, 70% RH	120Vac, 60Hz 55Vdc	Matthew Yang
PLC	25 deg. C, 70% RH	120Vac, 60Hz 55Vdc	Matthew Yang
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Ted Wu



3.3 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.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5410	6RP2YM1	FCC DoC Approved	-
B.	Adapter	Channel Well Technology	2ABN036F US	N/A	N/A	Provided by client
C.	Load	N/A	N/A	N/A	N/A	-
D.	PoE	Microsemi	PD-9001GR/AT/AC	N/A	N/A	Provided by client

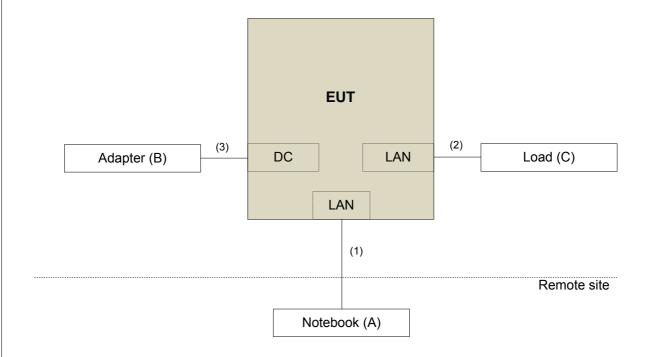
Note:

- 1. All power cords of the above support units are non-shielded (1.8m).
- 2. Item A acted as communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45 cable	1	10	N	0	-
2.	RJ45 cable	1	1.8	N	0	-
3.	DC cable	1	1.45	-	0	attached on adapter
4.	RJ45 cable	1	3	N	0	-

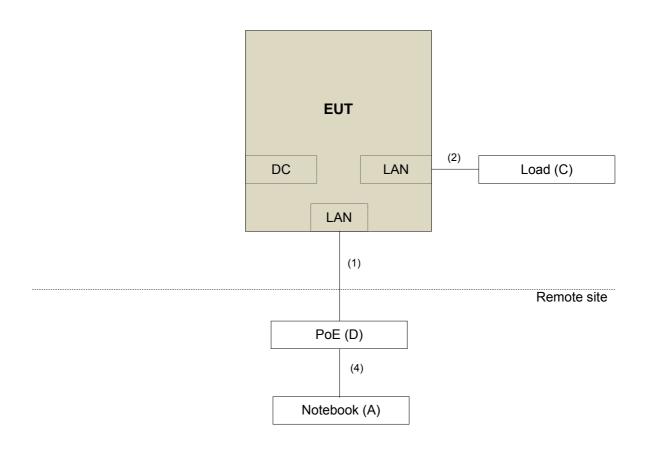
3.3.1 Configuration of System under Test

Test Mode A





Test Mode B



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) KDB 558074 D01 DTS Meas Guidance v04

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.



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 20dB 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 1000MHz, 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 20dB under any condition of modulation.



4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Oct. 24, 2016	Oct. 23, 2017
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Aug. 16, 2016	Aug. 15, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Dec. 15, 2016	Dec. 14, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2016	Aug. 10, 2017
Preamplifier Agilent	8449B	3008A01960	Aug. 09, 2016	Aug. 08, 2017
Preamplifier Agilent	8447D	2944A10631	Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Aug. 09, 2016	Aug. 08, 2017
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
High Speed Peak Power Meter	ML2495A	0824012	Aug. 11, 2016	Aug. 10, 2017
Power Sensor	MA2411B	0738171	Aug. 11, 2016	Aug. 10, 2017

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 4.
- 3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 460141.
- 5. The IC Site Registration No. is IC7450F-4.



4.1.3 Test Procedures

For Radiated emission below 30MHz

- 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. Both X and Y axes 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 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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 detect 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 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 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 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is \geq 1/T (Duty cycle < 98%) or 3 x RBW (Duty cycle \geq 98%) for RMS detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

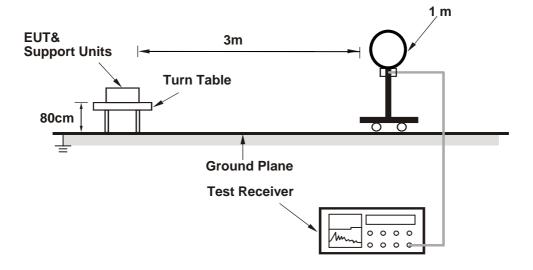
4.1.4 Deviation from Test Standard

No deviation.

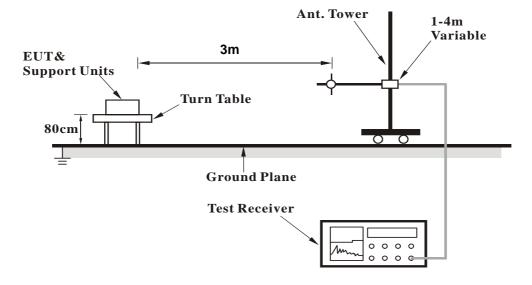


4.1.5 Test Set Up

For Radiated emission below 30MHz

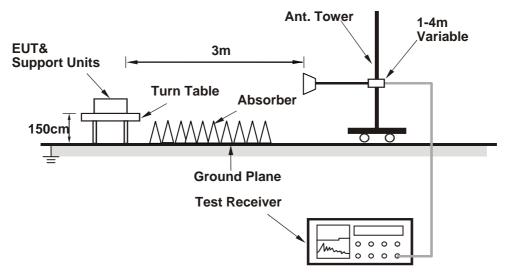


For Radiated emission 30MHz to 1GHz





For Radiated emission above 1GHz



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. Prepared notebook to act as a communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- d. The communication partner sent data to EUT by command "PING".
- e. The necessary accessories enable the system in full functions.



4.1.7 Test Results

Above 1GHz worst-case data:

Test Mode A

CHANNEL	TX Channel 0	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	2390.00	56.3 PK	74.0	-17.7	1.28 H	161	23.40	32.90
2	2390.00	44.4 AV	54.0	-9.6	1.28 H	161	11.50	32.90
3	*2402.00	90.5 PK			1.24 H	152	57.60	32.90
4	*2402.00	85.8 AV			1.24 H	152	52.90	32.90
5	4804.00	47.4 PK	74.0	-26.6	1.99 H	207	40.70	6.70
6	4804.00	36.0 AV	54.0	-18.0	1.99 H	207	29.30	6.70
		ANTENN	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL AT	Г 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	2390.00	56.5 PK	74.0	-17.5	2.90 V	175	23.60	32.90
2	2390.00	44.5 AV	54.0	-9.5	2.90 V	175	11.60	32.90
3	*2402.00	94.8 PK			2.84 V	170	61.90	32.90
4	*2402.00	91.7 AV			2.84 V	170	58.80	32.90
5	4804.00	47.5 PK	74.0	-26.5	1.32 V	96	40.80	6.70
6	4804.00	36.3 AV	54.0	-17.7	1.32 V	96	29.60	6.70

- 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.
- 6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 19	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	*2440.00	89.4 PK			2.93 H	246	56.30	33.10
2	*2440.00	84.4 AV			2.93 H	246	51.30	33.10
3	4880.00	47.1 PK	74.0	-26.9	3.08 H	157	40.30	6.80
4	4880.00	35.9 AV	54.0	-18.1	3.08 H	157	29.10	6.80
		ANTENN	A POLARITY	/ & TEST DI	STANCE: VI	ERTICAL AT	Г 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	*2440.00	95.7 PK			1.44 V	187	62.60	33.10
2	*2440.00	92.1 AV			1.44 V	187	59.00	33.10
3	4880.00	47.7 PK	74.0	-26.3	2.06 V	155	40.90	6.80
4	4880.00	36.3 AV	54.0	-17.7	2.06 V	155	29.50	6.80

- 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 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA	POLARITY 8	& TEST DIS	TANCE: HO	RIZONTAL A	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	*2480.00	92.4 PK			1.77 H	245	59.10	33.30
2	*2480.00	88.0 AV			1.77 H	245	54.70	33.30
3	2483.50	56.4 PK	74.0	-17.6	1.81 H	239	23.10	33.30
4	2483.50	45.1 AV	54.0	-8.9	1.81 H	239	11.80	33.30
5	4960.00	47.1 PK	74.0	-26.9	2.29 H	307	40.10	7.00
6	4960.00	35.4 AV	54.0	-18.6	2.29 H	307	28.40	7.00
		ANTENN	A POLARITY	/ & TEST DI	STANCE: VI	ERTICAL AT	Г 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	*2480.00	99.0 PK			1.47 V	179	65.70	33.30
2	*2480.00	94.1 AV			1.47 V	179	60.80	33.30
3	2483.50	56.9 PK	74.0	-17.1	1.51 V	173	23.60	33.30
4	2483.50	45.4 AV	54.0	-8.6	1.51 V	173	12.10	33.30
5	4960.00	47.8 PK	74.0	-26.2	1.93 V	229	40.80	7.00
6	4960.00	36.2 AV	54.0	-17.8	1.93 V	229	29.20	7.00

- 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.



Test Mode C

CHANNEL	TX Channel 0	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	2390.00	57.6 PK	74.0	-16.4	2.88 H	121	24.70	32.90
2	2390.00	45.3 AV	54.0	-8.7	2.88 H	121	12.40	32.90
3	*2402.00	94.9 PK			2.86 H	124	62.00	32.90
4	*2402.00	90.4 AV			2.86 H	124	57.50	32.90
5	4804.00	49.0 PK	74.0	-25.0	1.92 H	117	42.30	6.70
6	4804.00	36.8 AV	54.0	-17.2	1.92 H	117	30.10	6.70
		ANTENN	A POLARITY	/ & TEST DI	STANCE: VI	ERTICAL 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	2390.00	57.5 PK	74.0	-16.5	2.55 V	270	24.60	32.90
2	2390.00	44.9 AV	54.0	-9.1	2.55 V	270	12.00	32.90
3	*2402.00	94.4 PK			2.60 V	274	61.50	32.90
4	*2402.00	89.7 AV			2.60 V	274	56.80	32.90
5	4804.00	48.2 PK	74.0	-25.8	1.05 V	22	41.50	6.70
6	4804.00	36.3 AV	54.0	-17.7	1.05 V	22	29.60	6.70

- 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.
- 6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 19	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA	POLARITY 8	& TEST DIS	TANCE: HO	RIZONTAL A	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	*2440.00	96.7 PK			2.86 H	221	63.60	33.10
2	*2440.00	92.0 AV			2.86 H	221	58.90	33.10
3	4880.00	49.0 PK	74.0	-25.0	2.61 H	193	42.20	6.80
4	4880.00	36.8 AV	54.0	-17.2	2.61 H	193	30.00	6.80
		ANTENN	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL AT	T 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	*2440.00	95.9 PK			2.56 V	282	62.80	33.10
2	*2440.00	91.2 AV			2.56 V	282	58.10	33.10
3	4880.00	48.3 PK	74.0	-25.7	3.07 V	158	41.50	6.80
4	4880.00	36.1 AV	54.0	-17.9	3.07 V	158	29.30	6.80

- 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 39	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	*2480.00	97.5 PK			2.78 H	133	64.20	33.30
2	*2480.00	92.8 AV			2.78 H	133	59.50	33.30
3	2483.50	57.5 PK	74.0	-16.5	2.86 H	139	24.20	33.30
4	2483.50	45.9 AV	54.0	-8.1	2.86 H	139	12.60	33.30
5	4960.00	49.3 PK	74.0	-24.7	3.11 H	120	42.30	7.00
6	4960.00	37.2 AV	54.0	-16.8	3.11 H	120	30.20	7.00
		ANTENN	A POLARITY	/ & TEST DI	STANCE: VI	ERTICAL AT	Г 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	*2480.00	96.9 PK			2.54 V	291	63.60	33.30
2	*2480.00	92.2 AV			2.54 V	291	58.90	33.30
3	2483.50	57.1 PK	74.0	-16.9	2.60 V	288	23.80	33.30
4	2483.50	45.5 AV	54.0	-8.5	2.60 V	288	12.20	33.30
5	4960.00	48.8 PK	74.0	-25.2	2.07 V	109	41.80	7.00
6	4960.00	36.7 AV	54.0	-17.3	2.07 V	109	29.70	7.00

- 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.



Below 1GHz worst-case data:

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	A

		ANTENNA	POLARITY 8	& TEST DIS	TANCE: HO	RIZONTAL A	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	76.56	26.9 QP	40.0	-13.1	1.26 H	15	44.10	-17.20
2	171.62	25.4 QP	43.5	-18.1	1.50 H	105	39.50	-14.10
3	433.52	24.4 QP	46.0	-21.6	2.00 H	104	34.00	-9.60
4	590.66	28.6 QP	46.0	-17.4	2.00 H	124	35.10	-6.50
5	751.68	37.4 QP	46.0	-8.6	1.01 H	122	40.40	-3.00
6	916.58	36.3 QP	46.0	-9.7	1.26 H	104	36.60	-0.30
		ANTENN	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL AT	T 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	33.88	24.6 QP	40.0	-15.4	1.01 V	19	40.10	-15.50
2	212.36	26.3 QP	43.5	-17.2	1.01 V	296	42.50	-16.20
3	375.32	29.8 QP	46.0	-16.2	1.01 V	248	40.60	-10.80
4	643.04	30.3 QP	46.0	-15.7	1.26 V	149	35.70	-5.40
5	780.78	31.5 QP	46.0	-14.5	2.00 V	173	33.90	-2.40
6	980.60	36.9 QP	54.0	-17.1	1.26 V	298	36.40	0.50

- 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



CHANNEL	TX Channel 0	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz	TEST MODE	В

		ANTENNA	POLARITY &	& TEST DIS	TANCE: HO	RIZONTAL A	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	64.92	30.2 QP	40.0	-9.8	1.00 V	185	45.20	-15.00
2	375.32	28.0 QP	46.0	-18.0	1.00 V	193	37.40	-9.40
3	499.48	31.2 QP	46.0	-14.8	1.00 V	207	37.70	-6.50
4	625.58	31.8 QP	46.0	-14.2	1.50 V	8	34.80	-3.00
5	794.36	32.2 QP	46.0	-13.8	1.00 V	307	31.90	0.30
6	965.08	35.7 QP	54.0	-18.3	1.50 V	274	31.30	4.40
		ANTENN	A POLARITY	/ & TEST DI	STANCE: VI	ERTICAL AT	Г 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	33.88	24.6 QP	40.0	-15.4	1.01 V	19	40.10	-15.50
2	212.36	26.3 QP	43.5	-17.2	1.01 V	296	42.50	-16.20
3	375.32	29.8 QP	46.0	-16.2	1.01 V	248	40.60	-10.80
4	643.04	30.3 QP	46.0	-15.7	1.26 V	149	35.70	-5.40
5	780.78	31.5 QP	46.0	-14.5	2.00 V	173	33.90	-2.40
6	980.60	36.9 QP	54.0	-17.1	1.26 V	298	36.40	0.50

- 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



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	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			

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

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. 21, 2016	Nov. 20, 2017
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 22, 2016	Dec. 21, 2017
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 10, 2017	Mar. 09, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 28, 2016	Jul. 27, 2017
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/ 50uH 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 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

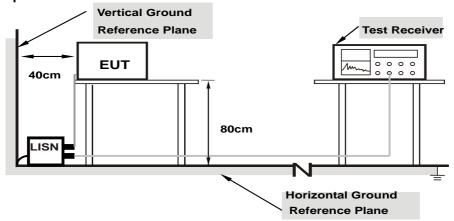
Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.



4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

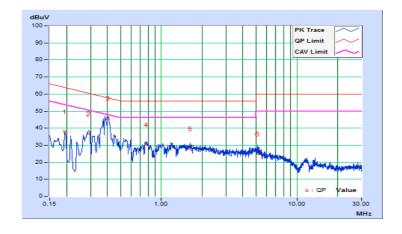


4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

	Freq. Corr.		Reading Value		Emission Level		Limit		Margin	
No	rieq.	Factor	[dB (uV)] [dB (uV)]		(uV)]	[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19418	10.43	27.58	12.62	38.01	23.05	63.86	53.86	-25.85	-30.81
2	0.28982	10.47	26.38	18.75	36.85	29.22	60.53	50.53	-23.68	-21.31
3	0.40179	10.51	35.42	28.09	45.93	38.60	57.82	47.82	-11.89	-9.22
4	0.77429	10.48	19.68	11.41	30.16	21.89	56.00	46.00	-25.84	-24.11
5	1.62600	10.50	17.41	9.44	27.91	19.94	56.00	46.00	-28.09	-26.06
6	5.16200	10.71	14.33	6.22	25.04	16.93	60.00	50.00	-34.96	-33.07

- 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.

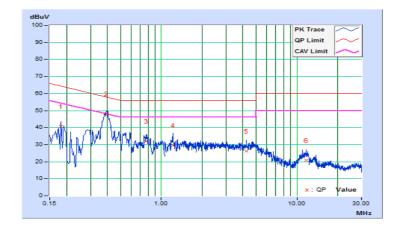




Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

	Corr.		Reading Value		Emissic	n Level	Lir	nit	Margin	
No	Freq.	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18200	10.18	30.44	16.52	40.62	26.70	64.39	54.39	-23.77	-27.69
2	0.39445	10.23	37.75	30.73	47.98	40.96	57.97	47.97	-9.99	-7.01
3	0.77429	10.24	21.90	13.34	32.14	23.58	56.00	46.00	-23.86	-22.42
4	1.21400	10.25	19.45	11.68	29.70	21.93	56.00	46.00	-26.30	-24.07
5	4.24600	10.43	15.72	8.78	26.15	19.21	56.00	46.00	-29.85	-26.79
6	11.75800	10.71	10.04	5.05	20.75	15.76	60.00	50.00	-39.25	-34.24

- 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.

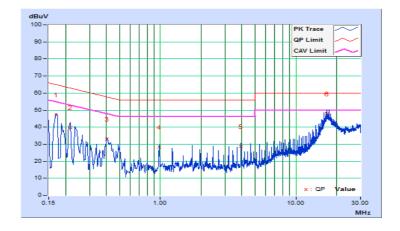




Phase	Line (L)	LI Jefector Flinction	Quasi-Peak (QP) / Average (AV)
Test Mode	В		

	Freq. Corr.		Reading Value		Emissic	sion Level Li		nit	Margin	
No	rieq.	Factor	[dB (uV)] [dB (uV)]		[dB (uV)]		(dB)			
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17022	10.42	36.87	22.84	47.29	33.26	64.95	54.95	-17.66	-21.69
2	0.21748	10.44	29.16	13.26	39.60	23.70	62.91	52.91	-23.31	-29.21
3	0.40179	10.51	22.60	16.11	33.11	26.62	57.82	47.82	-24.71	-21.20
4	0.98200	10.46	17.92	17.81	28.38	28.27	56.00	46.00	-27.62	-17.73
5	3.92200	10.65	18.04	17.54	28.69	28.19	56.00	46.00	-27.31	-17.81
6	16.91800	11.26	36.58	34.12	47.84	45.38	60.00	50.00	-12.16	-4.62

- 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.

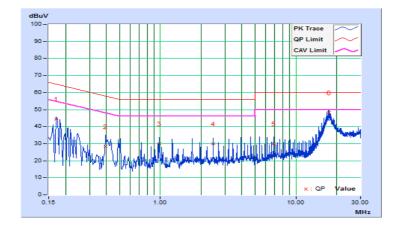




Phase	Neutral (N)	LI DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
Test Mode	В		

	Frog	Corr.		Reading Value Emission Level		Limit		Margin		
No	Freq.	Factor	[dB (uV)] [dB (uV)]		[dB (uV)]		(dB)			
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17022	10.17	34.27	19.71	44.44	29.88	64.95	54.95	-20.51	-25.07
2	0.39400	10.23	18.17	8.01	28.40	18.24	57.98	47.98	-29.58	-29.74
3	0.98200	10.24	19.79	19.53	30.03	29.77	56.00	46.00	-25.97	-16.23
4	2.45000	10.33	19.63	19.04	29.96	29.37	56.00	46.00	-26.04	-16.63
5	6.86600	10.53	19.29	18.40	29.82	28.93	60.00	50.00	-30.18	-21.07
6	17.65000	10.96	37.08	34.74	48.04	45.70	60.00	50.00	-11.96	-4.30

- 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 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB 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) = 100kHz
- 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 fromTest Standard

No deviation.

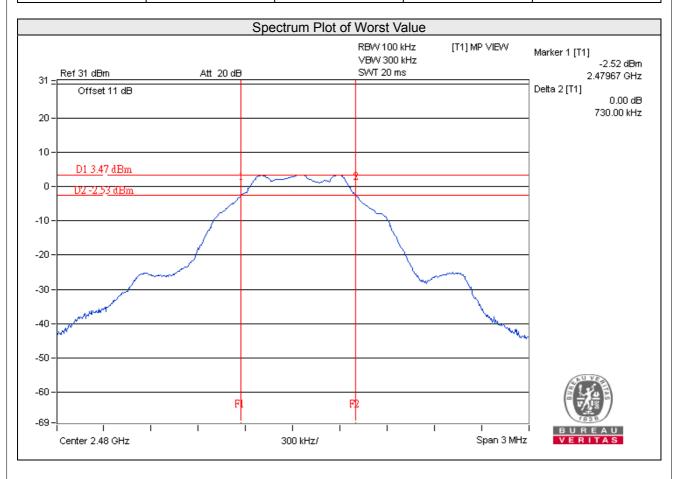
4.3.6 EUT Operating Conditions

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



4.3.7 Test Result

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	0.72	0.5	Pass
19	2440	0.72	0.5	Pass
39	2480	0.73	0.5	Pass



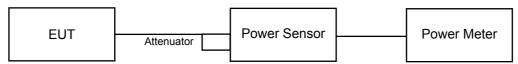


4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

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

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

Same as Item 4.3.6.

4.4.7 Test Results

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
0	2402	2.851	4.55	30	Pass
19	2440	3.327	5.22	30	Pass
39	2480	3.304	5.19	30	Pass



4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm.

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 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 ≥ 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.

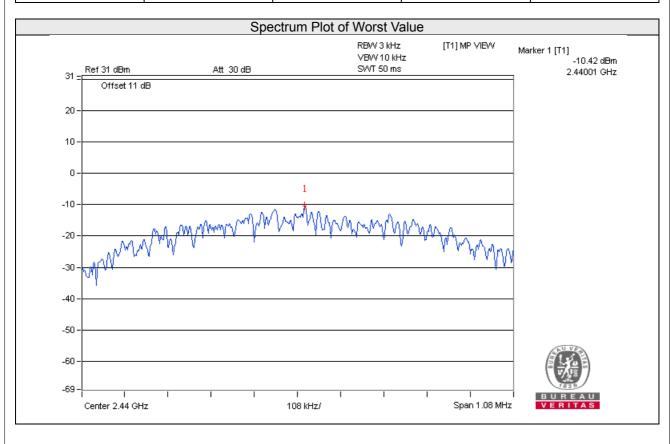
4.5.6 EUT Operating Condition

Same as Item 4.3.6



4.5.7 Test Results

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	2402	-11.36	8.00	Pass
19	2440	-10.42	8.00	Pass
39	2480	-10.48	8.00	Pass



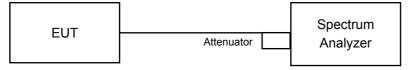


4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below 20dB of the highest emission level of operating band (in 100kHz 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

- a. Set the RBW = 100 kHz.
- b. Set the VBW ≥ 300 kHz.
- c. Detector = peak.
- d. Sweep time = auto couple.
- e. Trace mode = max hold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

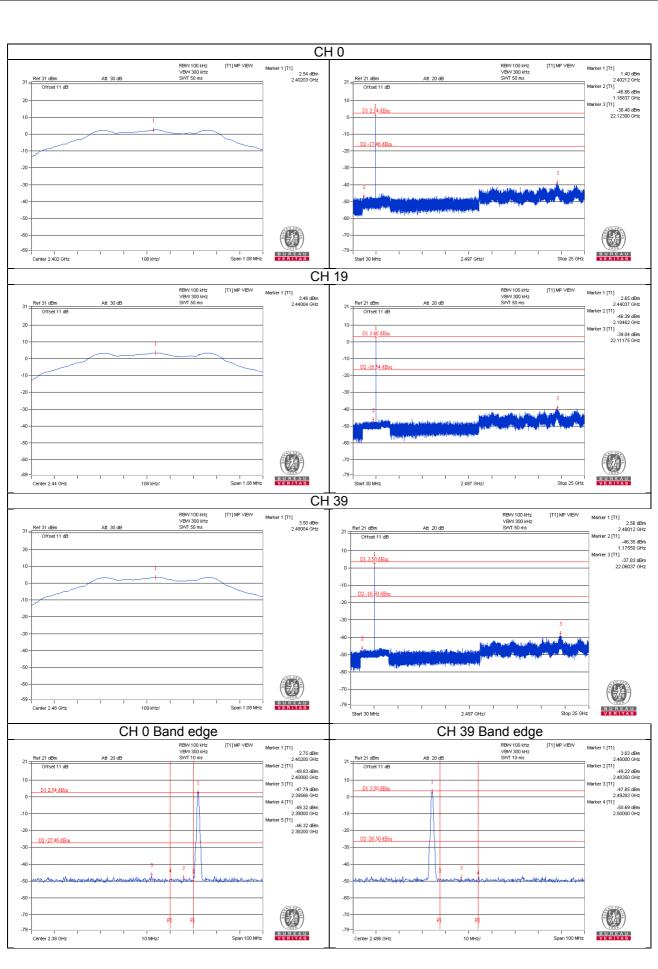
MEASUREMENT PROCEDURE OOBE

- a. Set RBW = 100 kHz.
- b. Set VBW ≥ 300 kHz.
- c. Detector = peak.
- d. Sweep = auto couple.
- e. Trace Mode = max hold.
- f. Allow trace to fully stabilize.
- g. 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						
Same as Item 4.3.6						
4.6.7 Test Results						
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.						







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



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

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