

FCC Test Report

Report No.: RFBAOZ-WTW-P21060679A-1

FCC ID: 2AHKM-ARIA3411

Test Model: ARIA3411

Series Model: OS3411

Received Date: 2022/2/7

Test Date: 2022/2/10

Issued Date: 2022/4/25

Applicant: Hitron Technologies Inc.

Address: No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park, Hsinchu 30078, Taiwan

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

Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

Taiwan.

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

Taiwan.

FCC Registration / Designation Number:

723255 / TW2022





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Report Format Version:6.1.2



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Report Issue History Record of EUT

Attachment No.	Issue Date	Description	
RFBAOZ-WTW-P21060679-1	2021/11/30	Original release.	
RFBAOZ-WTW-P21060679A-1	2022/4/25	Add shielding & gasket.	



Release Control Record

Issue No.	Description	Date Issued
RFBAOZ-WTW-P21060679A-1	Original release.	2022/4/25



Certificate of Conformity 1

Product: Tri-band WiFi Extender

Brand: hitron

Test Model: ARIA3411

Series Model: OS3411

Sample Status: Engineering sample

Applicant: Hitron Technologies Inc.

Test Date: 2022/2/10

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

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: Vivian Huang / Specialist, Date: 2022/4/25

Approved by:

Clark Lin / Technical Manager



2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)					
FCC Clause	Test Item		Remarks		
15.407(b)(6)	AC Power Conducted Emissions	N/A	Refer to Note 1 below		
15.407(b) (1/2/3/4(i/ii)/6)	` ,		Meet the requirement of limit. Minimum passing margin is -4.7dB at 53.92MHz.		
15.407(a)(1/2/ 3)	Max Average Transmit Power	N/A	Refer to Note 1 below		
	Occupied Bandwidth Measurement		Reference only.		
15.407(a)(1/2/ 3)	Peak Power Spectral Density	N/A	Refer to Note 1 below		
15.407(e)	6dB bandwidth	N/A	Refer to Note 1 below		
15.407(g)	Frequency Stability	N/A	Refer to Note 1 below		
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.		

Note:

- 1. Radiated Emissions were performed for this addendum. The others testing data refer to original test report.
- 2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
Natifaced Emissions up to 1 GHZ	30MHz ~ 1GHz	5.5 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

Product	Tri-band WiFi Extender	
Brand	hitron	
Test Model	ARIA3411	
Series Model	OS3411	
Status of EUT	Engineering sample	
Power Supply Rating	12 Vdc from power adapter	
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode	
Modulation Technology	OFDM, OFDMA	
	802.11a: up to 54 Mbps	
Transfer Rate	802.11n: up to 300 Mbps	
Transier Nate	802.11ac: up to 866.7 Mbps	
	802.11ax: up to 1201.0 Mbps	
Operating Frequency 5.18 ~ 5.24GHz, 5.745 ~ 5.825GHz		
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 80211ax (HE20): 9 802.11n (HT40), 802.11ac (VHT40), 80211ax (HE40): 4 802.11ac (VHT80), 80211ax (HE80): 2	
Output Power	CDD Mode: 5.18 ~ 5.24 GHz (Master): 707.181 mW 5.18 ~ 5.24 GHz (Client): 245.803 mW 5.745 ~ 5.825 GHz: 795.324 mW Beamforming Mode: 5.18 ~ 5.24 GHz (Master): 633.537 mW 5.18 ~ 5.24 GHz (Client): 200.387 mW 5.745 ~ 5.825 GHz: 779 mW	
Antenna Type	Refer to Note	
Antenna Connector	Refer to Note	
Accessory Device	Adapter x1	
Data Cable Supplied	Yellow RJ45 Cable for ARIA3411 (Unshielded, 1.5M) x 1, White RJ45 Cable for OS3411 (Unshielded, 1.5M) x 1	



Note:

- 1. This is a supplementary report of Report No.: RFBAOZ-WTW-P21060679-1. The differences between them are as below information:
 - ◆ Add shielding & gasket.
- 2. According to above conditions, only Radiated Emissions (below 1GHz) need to be performed. And all data are verified to meet the requirements.

3. The EUT has two model names which are identical to each other in all aspects except for the followings:

Model Name	Difference
ARIA3411	with black housing
OS3411	with white housing

Note: From the above models, model: **ARIA3411** was selected as representative model for the test and its data are recorded in this report.

4. The EUT has below radios as following table:

Radio 1 Radio 2		Radio 3	Radio 4
Bluetooth	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz

5. Simultaneously transmission condition.

Condition	Technology				
1	WLAN 2.4GHz WLAN 5GHz WLAN			Bluetooth	
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.					

6. For radiated emissions, the EUT was pre-tested under the following modes:

Test Mode	Description
Mode A	Yellow RJ45 Cable
Mode B	White RJ45 Cable

In the original report, for the above modes, the worst radiated emissions was found in **Mode A.** Therefore only the test data of the modes were recorded in this report.

7. The antennas provided to the EUT, please refer to the following table:

Antenna NO.	Model	Antenna Net Gain(dBi)	Frequency range (GHz)	Antenna Type	Connector Type	Cable Length
1	RFPCA252525IMLB901	2.63	2.4~2.4835	printed PCB	printed DCD in av/MUE) (24cm
ı	RFPCA252525IMLB901	4.02	5.15~5.85	printed FCB	ipex(MHF)	24CM
2	RFPCA282525IMLB901	2.6	2.4~2.4835	printed PCR	PCB ipex(MHF) 24	24cm
	RFFCAZ62323IIVILB901	3.81	5.15~5.85	printed PCB		24011
3	RFPCA212009IMMB901	3.59	5.85~7.125	printed PCB	ipex(MHF)	10cm
4	RFPCA221508IMMB901	4.71	5.85~7.125	printed PCB	ipex(MHF)	7.5cm
5	RFPCA221514IMMB901	4.7	5.85~7.125	printed PCB	ipex(MHF)	13.5cm
6	RFPCA212009IMMB902	4.59	5.85~7.125	printed PCB	ipex(MHF)	8.5cm
7 (for BT)	RFPCA381007IMAB301	4.77	2.4~2.4835	printed PCB	ipex(MHF)	6.5cm



8. The EUT power needs to be supplied from a power adapter, the information is as below table:

Brand	Model No.	Spec.	Description
APD	WA-30P12FU	Input: 100-240 Vac, 0.9 A Max, 50-60 Hz Output: 12 Vdc, 2.5 A DC output cable (Unshielded, 1.5 m)	Black (for model: ARIA3411) White (for model: OS3411)

9. The EUT incorporates a MIMO function:

5GHz Band						
MODULATION MODE	TX & RX CON	TX & RX CONFIGURATION				
802.11a	2TX	2RX				
802.11n (HT20)	2TX	2RX				
802.11n (HT40)	2TX	2RX				
802.11ac (VHT20)	2TX	2RX				
802.11ac (VHT40)	2TX	2RX				
802.11ac (VHT80)	2TX	2RX				
802.11ax (HE20)	2TX	2RX				
802.11ax (HE40)	2TX	2RX				
802.11ax (HE80)	2TX	2RX				

Note:

- 1. All of modulation mode support beamforming function except 802.11a modulation mode.
- 2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
- 3. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), 802.11ac mode for 20MHz (40MHz, 80MHz) and 802.11ax mode for 20MHz (40MHz, 80MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report. (Final test mode refer to section 3.2.1)
- 10. 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.
- 11. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



3.2 Description of Test Modes

FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
42	5210 MHz

FOR 5745 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

		, ,	· · ·
Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	
155	5775 MHz	



3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure	Applicable To	Description
Mode	RE<1G	Description
-	\checkmark	-

Where

RE<1G: Radiated Emission below 1GHz

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.

CDD Mode							
Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	
802.11a	5180-5240 5745-5825	36 to 48 149 to 165	165	OFDM	BPSK	6Mb/s	

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested By
RE<1G	25deg. C, 70%RH	120Vac, 60Hz	Ryan Du



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.

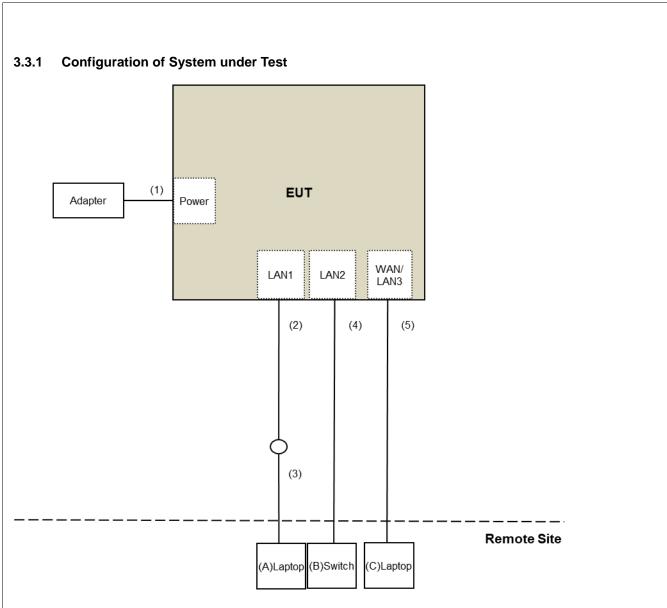
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	Lenovo	20U5S01X00 L14	PF-1ANPYA	N/A	Provided by Lab
B.	Switch	D-Link	DGS-1005D	DR8WC92000523	NA	Provided by Lab
C.	Laptop	Lenovo	20U5S01X00 L14	PF-28LKK7	N/A	Provided by Lab

Note:

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.5	No	0	Supplied by client
2.	RJ-45 Cable	1	1.5	No	0	Supplied by client
3.	RJ-45 Cable	1	10	No	0	Provided by Lab
4.	RJ-45 Cable	1	10	No	0	Provided by Lab
5.	RJ-45 Cable	1	10	No	0	Provided by Lab







3.4 General Description of Applied Standard and references

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

Test Standard:

FCC Part 15, Subpart E (15.407) ANSI C63.10-2013

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

References Test Guidance:

KDB 789033 D02 General UNII Test Procedure New Rules v02r01 KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.



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.

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.

Limits of unwanted emission out of the restricted bands

Applicable To		Limit			
789033 D02 General UNII Test Procedure		Field Strength at 3m			
New Rules v02r01		PK:74 (dBµV/m)	AV:54 (dBµV/m)		
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m		
5150~5250 MHz	15.407(b)(1)				
5250~5350 MHz	15.407(b)(2)	PK:-27 (dBm/MHz)	PK:68.2(dBµV/m)		
5470~5725 MHz	15.407(b)(3)				
5725~5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4		
			o increasing linearly to 10		

^{*1} beyond 75 MHz or more above of the band edge.

Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$
 µV/m, where P is the eirp (Watts).

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^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



4.1.2 Test Instruments

For Radiated emission test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent N9038A		MY51210202	2021/11/19	2022/11/18
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA
Pre_Amplifier EMCI	EMC001340	980142	2021/5/24	2022/5/23
LOOP ANTENNA Electro-Metrics	EM-6879	264	2021/3/5	2022/3/4
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/1/6	2023/1/5
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-002	2022/1/6	2023/1/5
Pre_Amplifier EMCI	EMC330N	980701	2021/3/10	2022/3/9
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-406	2021/10/27	2022/10/26
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	2021/3/17	2022/3/16
RF Coaxial Cable COMMATE/PEWC	8D	966-4-2	2021/3/17	2022/3/16
RF Coaxial Cable COMMATE/PEWC	8D	966-4-3	2021/3/17	2022/3/16
Fixed attenuator Mini-Circuits UNAT-5+		PAD-ATT5-03	2022/1/10	2023/1/9

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 966 Chamber No. 4.
- 3. Tested Date: 2022/2/10



4.1.3 Test Procedure

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. 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 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) 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.

Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

No deviation.

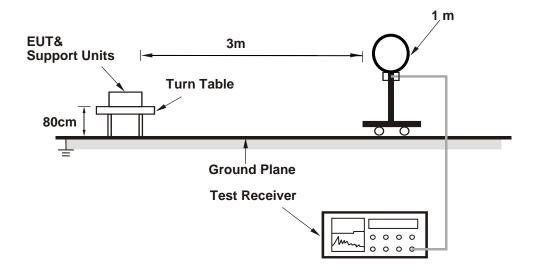
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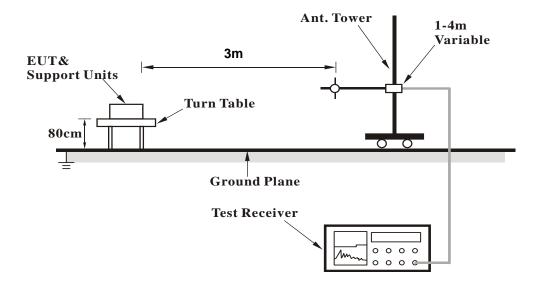


4.1.5 Test Setup

For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



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

4.1.6 EUT Operating Condition

- a. Connected the EUT with the Laptop Computer which is placed on remote site.
- b. Controlling software (qdart_conn.win.1.0_installer_00076.1) has been activated to set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

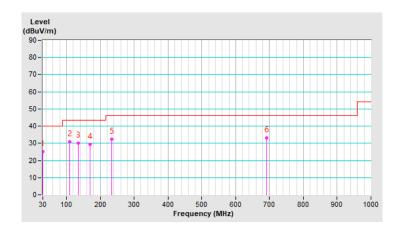
Below 1GHz Data:

RF Mode	TX 802.11a	Channel	CH 165: 5825 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 70 % RH
Tested By	Ryan Du		

	Antenna Polarity & Test Distance : Horizontal at 3 m							
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.42	25.0 QP	40.0	-15.0	1.00 H	233	38.6	-13.6
2	109.29	31.0 QP	43.5	-12.5	3.00 H	274	46.3	-15.3
3	134.49	30.2 QP	43.5	-13.3	1.50 H	286	43.1	-12.9
4	170.27	29.2 QP	43.5	-14.3	1.50 H	265	41.8	-12.6
5	233.63	32.5 QP	46.0	-13.5	1.00 H	122	46.4	-13.9
6	692.14	33.3 QP	46.0	-12.7	2.00 H	243	34.2	-0.9

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. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



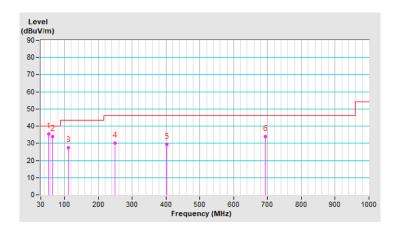


RF Mode	TX 802.11a	Channel	CH 165: 5825 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 70 % RH
Tested By	Ryan Du		

	Antenna Polarity & Test Distance : Vertical at 3 m							
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	53.92	35.3 QP	40.0	-4.7	1.00 V	296	48.0	-12.7
2	64.64	33.9 QP	40.0	-6.1	1.00 V	31	47.8	-13.9
3	110.69	27.4 QP	43.5	-16.1	1.50 V	294	42.6	-15.2
4	248.79	30.0 QP	46.0	-16.0	1.50 V	166	42.8	-12.8
5	403.14	29.2 QP	46.0	-16.8	1.00 V	257	37.1	-7.9
6	692.68	33.9 QP	46.0	-12.1	2.00 V	236	34.7	-0.8

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. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.





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



Appendix - Information of 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:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180 Tel: 886-3-6668565 Fax: 886-2-26051924 Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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

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