TEST REPORT

CERTIFICATE OF CONFORMITY

Standard:	**47 CFR FCC Part 15, Subpart C (Section 15.247)** **47 CFR FCC Part 15, Subpart E (Section 15.407)** **47 CFR FCC Part 2**
Report No.:	RFBCMA-WTW-P24120364-3
FCC ID:	RAXWE7224443B
Product:	Verizon Wi-Fi Extender
Brand:	Verizon
Model No.:	CE1000A
Received Date:	2024/9/10
Test Date:	2024/12/11 ~ 2024/12/12
Issued Date:	2024/12/19
Applicant:	Arcadyan Technology Corporation
Address:	No.8, Sec.2, Guangfu Rd.,Hsinchu City 30071, Taiwan, R.O.C.
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

Approved by: _____ , **Date:** **2024/12/19**

May Chen / Manager

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Prepared by: Vito Lung / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCMA-WTW-P24120364-3	Original release.	2024/12/19

1 Certificate

Product:	Verizon Wi-Fi Extender
Brand:	Verizon
Test Model:	CE1000A
Sample Status:	Engineering sample
Applicant:	Arcadyan Technology Corporation
Test Date:	2024/12/11 ~ 2024/12/12
Standard:	47 CFR FCC Part 15, Subpart C (Section 15.247) 47 CFR FCC Part 15, Subpart E (Section 15.407) 47 CFR FCC Part 2

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

2 Summary of Test Results

Standard / Clause	Test Item	Result	Remark
15.205 /15.209 /15.247(d) 15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Meet the requirement of limit.
15.205 /15.209 /15.247(d) 15.407(b) (1/2/3/4(i)/10) 15.407(b)(6)/15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Meet the requirement of limit.

Note: 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:

Parameter	Specification	Uncertainty (±)
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Verizon Wi-Fi Extender
Brand	Verizon
Test Model	CE1000A
Modulation Technology	DSSS, OFDM, OFDMA
Operating Frequency	**2.4 GHz:** 2.412 GHz ~ 2.462 GHz **5GHz:** 5.18 GHz ~ 5.24 GHz, 5.26 GHz ~ 5.32 GHz, 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz **6GHz:** 5.955 GHz ~ 6.415 GHz, 6.435 GHz ~ 6.525 GHz, 6.535 GHz ~ 6.865 GHz 6.875 GHz ~ 7.115 GHz

Note:

1. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter 1	DELTA	ADH-60BW B	AC Input: 120V ,1.2A, 60Hz DC Output: 12V ,5A ,60W DC Output Cable: 1.8 M, non-shielded cable, W/O ferrite core Plug: US
AC Adapter 2	Lucent Trans	1A98-1250-02	AC Input: 100~120V ,1.2A, 50/60Hz DC Output: 12V ,5A ,60W DC Output Cable: 1.8 M, non-shielded cable, W/O ferrite core Plug: US
RJ45 Cable	-	-	Signal Line: 3 M, non-shielded cable,

2. The EUT has below radios as following table:

Radios 1	Radios 2	Radios 3	Radios 4
WLAN 2.4GHz	WLAN 5GHz_Low + WLAN 5GHz_Full	WLAN (5 GHz)_High + WLAN (6 GHz)	WLAN 5GHz Sensor (RX)

3. Simultaneously transmission combination.

Combination	Technology		
1	WLAN (2.4 GHz)	WLAN (5 GHz)_Full	---
2	WLAN (2.4 GHz)	WLAN (5 GHz)_Low	WLAN (5 GHz)_High
3	WLAN (2.4 GHz)	WLAN (5 GHz)_Full	WLAN (6 GHz)
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.			

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

RF Radio	Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain(dBi)	Frequency range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
Radio 1	ANT 1	0	PSA	WE7224443B-VR	2.71	2.4 ~ 2.4835	Dipole	ipex(MHF)	150
	ANT 4	1	PSA	WE7224443B-VR	2.59	2.4 ~ 2.4835	Dipole	ipex(MHF)	130
	ANT 8	2	PSA	WE7224443B-VR	2.99	2.4 ~ 2.4835	Dipole	ipex(MHF)	110
	ANT 10	3	PSA	WE7224443B-VR	4.12	2.4 ~ 2.4835	Dipole	ipex(MHF)	150
Radio 2	ANT 2	0	PSA	WE7224443B-VR	4.61	5.15 ~ 5.25	Dipole	ipex(MHF)	100
					4.02	5.25 ~ 5.35			
					4.09	5.47 ~ 5.725			
					4.27	5.725 ~ 5.85			
	ANT 5	1	PSA	WE7224443B-VR	2.66	5.15 ~ 5.25	Dipole	ipex(MHF)	150
					3.12	5.25 ~ 5.35			
					4.65	5.47 ~ 5.725			
					3.73	5.725 ~ 5.85			
	ANT 9	2	PSA	WE7224443B-VR	3.71	5.15 ~ 5.25	Dipole	ipex(MHF)	150
					3.92	5.25 ~ 5.35			
					3.83	5.47 ~ 5.725			
					3.36	5.725 ~ 5.85			
	ANT 11	3	PSA	WE7224443B-VR	3.27	5.15 ~ 5.25	Dipole	ipex(MHF)	85
					3.49	5.25 ~ 5.35			
					2.96	5.47 ~ 5.725			
					2.93	5.725 ~ 5.85			
Radio 3	ANT 3	0	PSA	WE7224443B-VR	2.77	5.47 ~ 5.725	Dipole	ipex(MHF)	150
					4.04	5.725 ~ 5.85			
					3.43	5.925 ~ 6.425			
					3.81	6.425 ~ 6.525			
					3.39	6.525 ~ 6.875			
					3.05	6.875 ~ 7.125			
	ANT 6	1	PSA	WE7224443B-VR	2.65	5.47 ~ 5.725	Dipole	ipex(MHF)	150
					2.23	5.725 ~ 5.85			
					2.79	5.925 ~ 6.425			
					2.07	6.425 ~ 6.525			
					2.9	6.525 ~ 6.875			
					2.59	6.875 ~ 7.125			
	ANT 7	2	PSA	WE7224443B-VR	3.35	5.47 ~ 5.725	Dipole	ipex(MHF)	120
					3.54	5.725 ~ 5.85			
					2.48	5.925 ~ 6.425			
					3.44	6.425 ~ 6.525			
					2.81	6.525 ~ 6.875			
					4.15	6.525 ~ 6.875			
	ANT 12	3	PSA	WE7224443B-VR	2.79	5.47 ~ 5.725	Dipole	ipex(MHF)	150
					3.09	5.725 ~ 5.85			
					0.95	5.925 ~ 6.425			
					1.8	6.425 ~ 6.525			
					3.7	6.525 ~ 6.875			
					3.14	6.525~ 6.875			
Radio 4	DFS ANT 13	0	PSA	WE7224443B-VR	4.8	5.15 ~ 5.85	Dipole	ipex(MHF)	150

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The AC Adapter has the following models: DELTA: ADH-60BW B / Lucent Trans: 1A98-1250-02. Pre-scan these models of AC Adapters and find the worst case as a representative test condition. 2. 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).
Worst Case:	1. AC adapter worst condition: Lucent Trans:1A98-1250-02

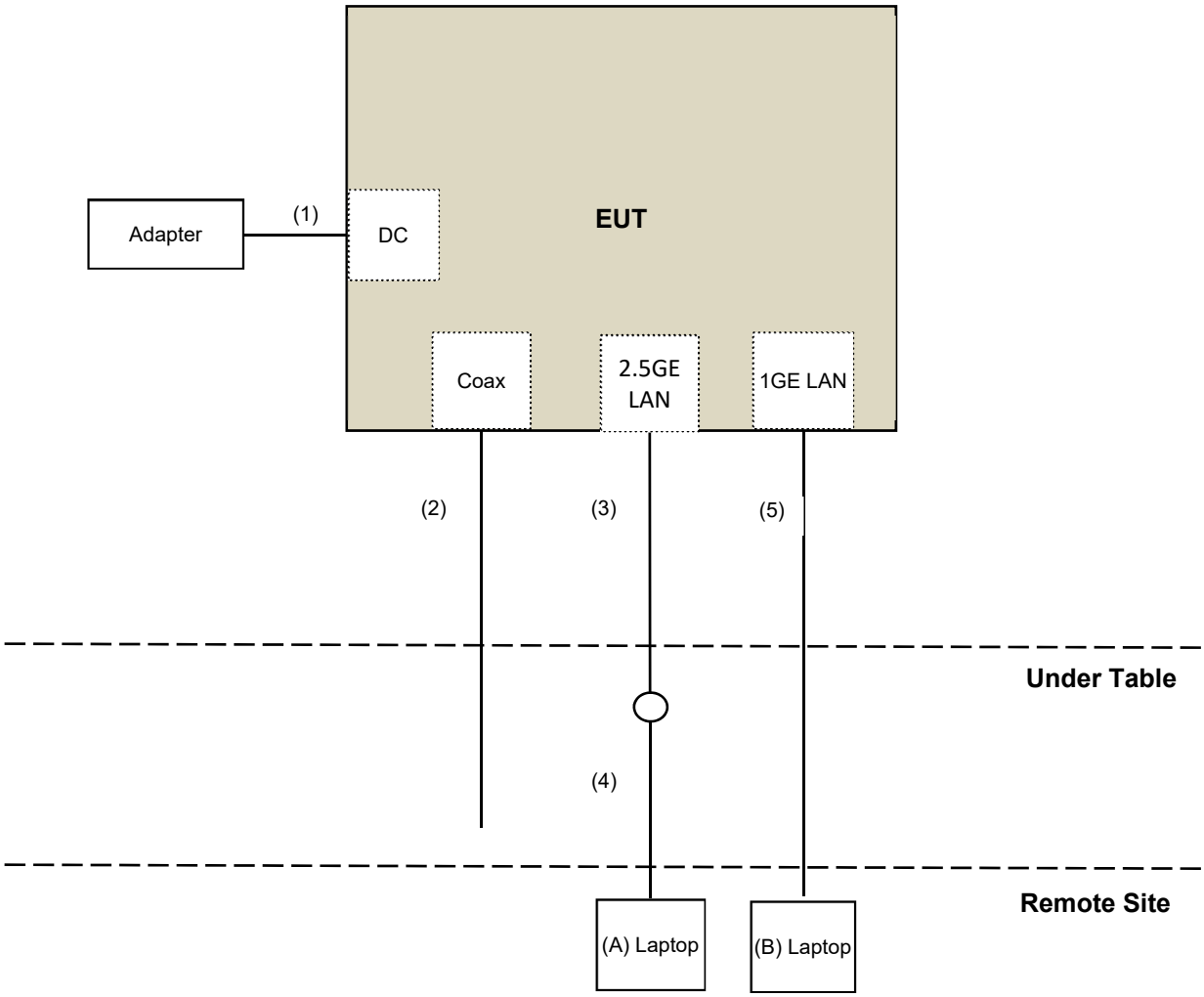
Following channel(s) was (were) selected for the final test as listed below:

Test Item	Combination	Mode	Tested Channel
Unwanted Emissions below 1 GHz	1	802.11ax (HE20)	11
		802.11a	48
	2	802.11ax (HE20)	11
		802.11a	40
		802.11ax (HE20)	157
	3	802.11ax (HE20)	11
		802.11a	48
		802.11a	113
Unwanted Emissions above 1 GHz	1	802.11ax (HE20)	11
		802.11a	48
	2	802.11ax (HE20)	11
		802.11a	40
		802.11ax (HE20)	157
	3	802.11ax (HE20)	11
		802.11a	48
		802.11a	113
Note: Partial RU (resource unit) mechanism is not supported.			

3.4 Test Program Used and Operation Descriptions

Controlling software (QATool_UIv2.88_DLLv6.93_ap_2022.01.04(V14)c) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.5 Connection Diagram of EUT and Peripheral Devices



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	20U5S01X00 L14	PF-1ANPYA	N/A	Provided by Lab
B	Laptop	DELL	E6420	H62T3R1	DoC	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	0	Supplied by applicant
2	Coaxial Cable	1	10	Yes	0	Provided by Lab
3	RJ-45 Cable	1	3	No	0	Supplied by applicant
4	RJ-45 Cable	1	10	No	0	Provided by Lab
5	RJ-45 Cable	1	10	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0842	2024/10/8	2025/10/7
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2024/3/25	2025/3/24
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2024/3/30	2025/3/29
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
Preamplifier EMCI	EMC330N	980538	2024/3/30	2025/3/29
	EMC001340	980142	2024/2/19	2025/2/18
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20	2025/5/19
RF Coaxial Cable JYEBAO	5D-FB	LOOPCAB-001	2024/2/19	2025/2/18
		LOOPCAB-002	2024/2/19	2025/2/18
RF Coaxial Cable PEWC	8D	966-5-1	2024/3/30	2025/3/29
		966-5-2	2024/3/30	2025/3/29
		966-5-3	2024/3/30	2025/3/29
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2024/12/12

4.2 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2024/3/25	2025/3/24
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1819	2024/11/10	2025/11/9
	BBHA 9170	9170-739	2024/11/10	2025/11/9
Preamplifier EMCI	EMC12630SE	980509	2024/1/29	2025/1/28
	EMC184045SE	980387	2024/8/8	2025/8/7
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20	2025/5/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2024/1/29	2025/1/28
	EMC102-KM-KM-4000	200214	2024/1/29	2025/1/28
	EMC104-SM-SM-1500	180503	2024/3/16	2025/3/15
	EMC104-SM-SM-2000	180501	2024/3/16	2025/3/15
	EMC104-SM-SM-6000	180506	2024/3/16	2025/3/15
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2024/12/11 ~ 2024/12/12

5 Limits of Test Items

5.1 Unwanted Emissions below 1 GHz

For FCC 15.247:

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

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

For FCC 15.407:
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

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.2 Unwanted Emissions above 1 GHz

For FCC 15.247:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

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.

For FCC 15.407 transmitters operating in the 5.150-5.850 GHz band:
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)
Above 960	500	3

Notes:

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.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v02r01	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m) *
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m) *
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m) *
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
*1 beyond 75 MHz or more above of the band edge. *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.		

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).

For FCC 15.407 transmitters operating in the 5.925-7.125 GHz band:

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)
Above 960	500	3

Notes:

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.

Limits of unwanted emission out of the restricted bands

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3 m
5925 MHz > F > 7125 MHz	Peak: -7 (dBm/MHz)	88.2 (dBuV/m)
	Average: -27 (dBm/MHz)	68.2 (dBuV/m)

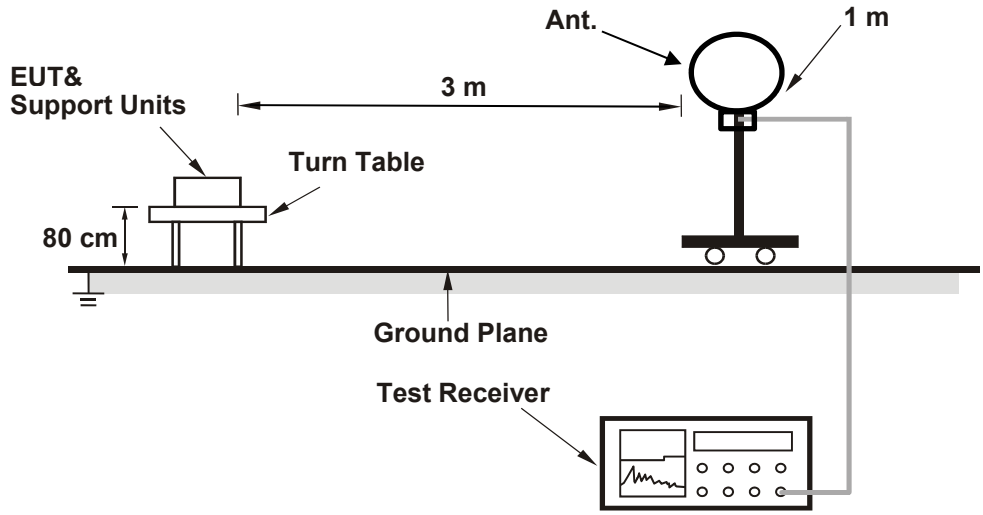
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

6 Test Arrangements

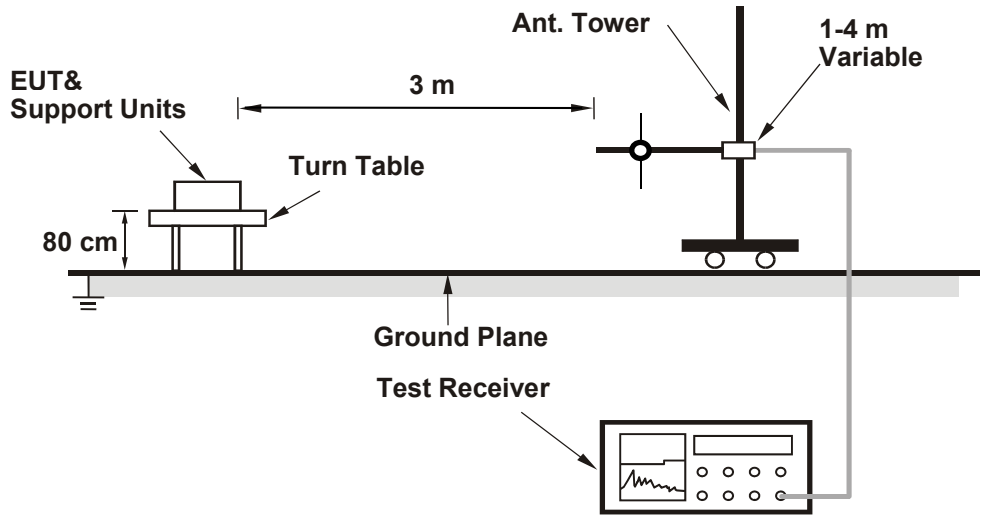
6.1 Unwanted Emissions below 1 GHz

6.1.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.1.2 Test Procedure

For Radiated emission below 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 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. 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, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

a. The EUT was placed on the top of a rotating table 0.8 meters 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.

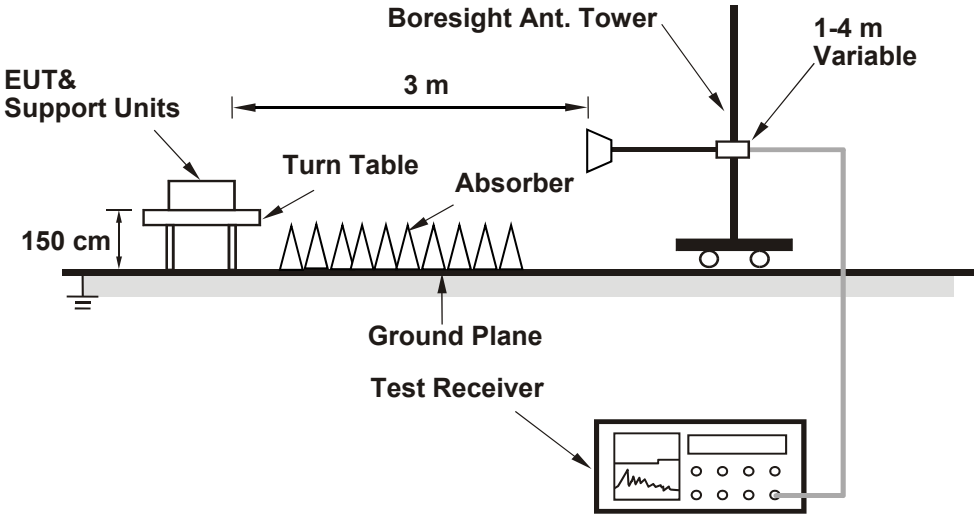
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

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

6.2 Unwanted Emissions above 1 GHz

6.2.1 Test Setup



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

6.2.2 Test Procedure

a. The EUT was placed on the top of a rotating table 1.5 meters 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 peak and average detects 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.

Notes:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10 Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

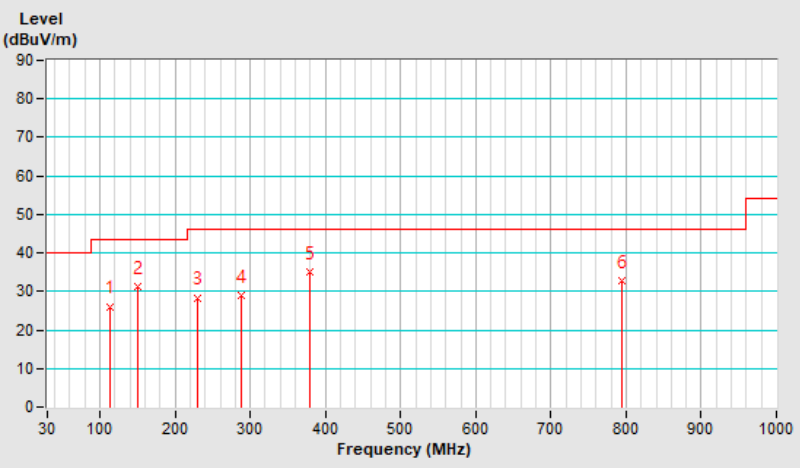
7.1 Unwanted Emissions below 1 GHz

Combination	1		
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22 °C, 65 % RH
Tested By	Willy Lin		

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	113.75	26.1 QP	43.5	-17.4	2.00 H	13	46.3	-20.2
2	150.16	31.2 QP	43.5	-12.3	1.00 H	82	48.5	-17.3
3	229.76	28.4 QP	46.0	-17.6	2.00 H	97	48.5	-20.1
4	288.16	28.9 QP	46.0	-17.1	1.00 H	127	46.1	-17.2
5	378.46	35.1 QP	46.0	-10.9	1.00 H	147	50.0	-14.9
6	794.76	32.8 QP	46.0	-13.2	1.50 H	131	39.2	-6.4

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 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

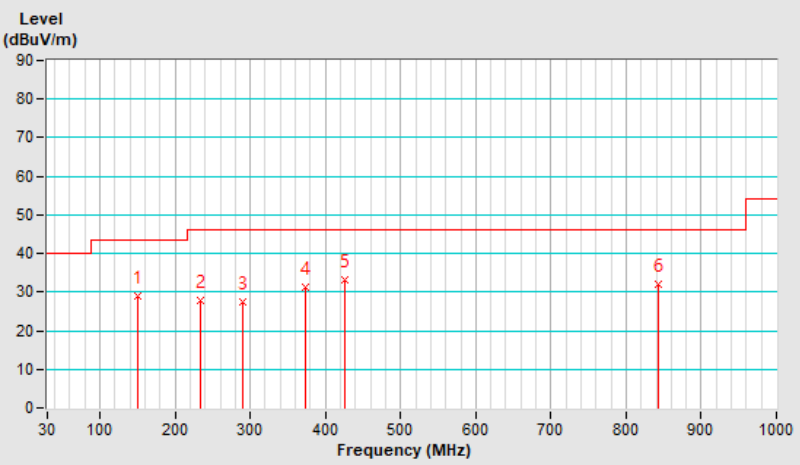


Combination	1		
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22 °C, 65 % RH
Tested By	Willy Lin		

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	149.58	29.1 QP	43.5	-14.4	1.00 V	226	46.4	-17.3
2	234.42	27.9 QP	46.0	-18.1	1.00 V	175	47.4	-19.5
3	290.77	27.3 QP	46.0	-18.7	2.00 V	180	44.5	-17.2
4	373.21	31.1 QP	46.0	-14.9	1.00 V	55	46.2	-15.1
5	425.93	33.1 QP	46.0	-12.9	2.00 V	165	46.6	-13.5
6	842.78	31.9 QP	46.0	-14.1	1.00 V	315	38.0	-6.1

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 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

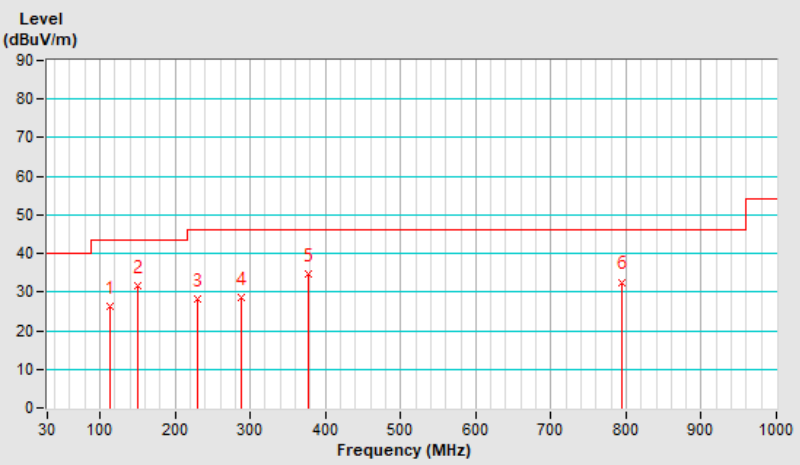


Combination	2		
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22 °C, 65 % RH
Tested By	Willy Lin		

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	112.59	26.3 QP	43.5	-17.2	3.00 H	22	46.6	-20.3
2	149.77	31.7 QP	43.5	-11.8	1.50 H	65	49.0	-17.3
3	229.58	28.1 QP	46.0	-17.9	2.00 H	109	48.3	-20.2
4	287.79	28.5 QP	46.0	-17.5	2.00 H	151	45.7	-17.2
5	377.78	34.8 QP	46.0	-11.2	1.50 H	145	49.7	-14.9
6	794.81	32.6 QP	46.0	-13.4	1.00 H	163	39.0	-6.4

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 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

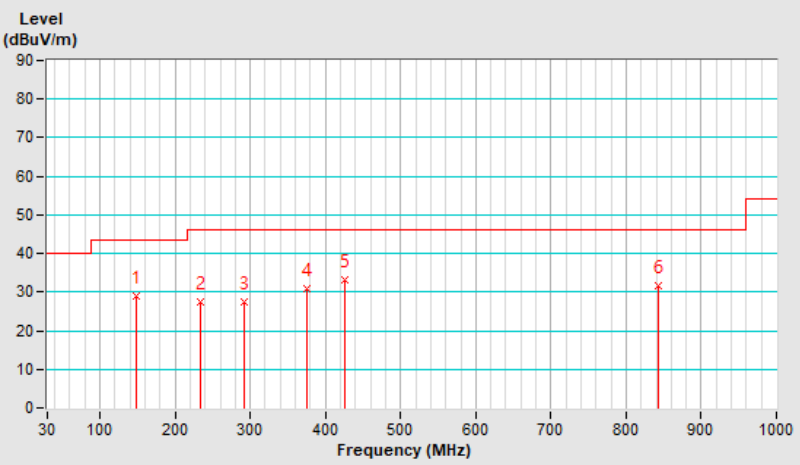


Combination	2		
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22 °C, 65 % RH
Tested By	Willy Lin		

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	149.14	29.1 QP	43.5	-14.4	1.50 V	198	46.3	-17.2
2	233.8	27.4 QP	46.0	-18.6	1.00 V	184	47.0	-19.6
3	292.52	27.5 QP	46.0	-18.5	2.00 V	188	44.6	-17.1
4	374.73	30.8 QP	46.0	-15.2	1.00 V	55	45.8	-15.0
5	425.68	33.2 QP	46.0	-12.8	3.00 V	134	46.7	-13.5
6	843.52	31.7 QP	46.0	-14.3	1.00 V	323	37.8	-6.1

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 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

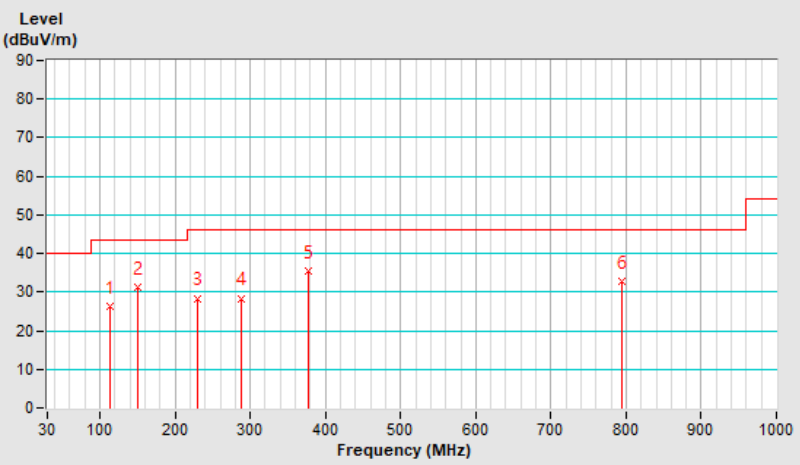


Combination	3		
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22 °C, 65 % RH
Tested By	Willy Lin		

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	113.03	26.4 QP	43.5	-17.1	1.50 H	25	46.7	-20.3
2	149.81	31.4 QP	43.5	-12.1	1.00 H	86	48.7	-17.3
3	229.63	28.4 QP	46.0	-17.6	2.00 H	66	48.6	-20.2
4	288.34	28.4 QP	46.0	-17.6	1.00 H	126	45.6	-17.2
5	**377.91**	**35.4 QP**	**46.0**	**-10.6**	**1.50 H**	**150**	**50.3**	**-14.9**
6	794.68	32.7 QP	46.0	-13.3	2.00 H	175	39.1	-6.4

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 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

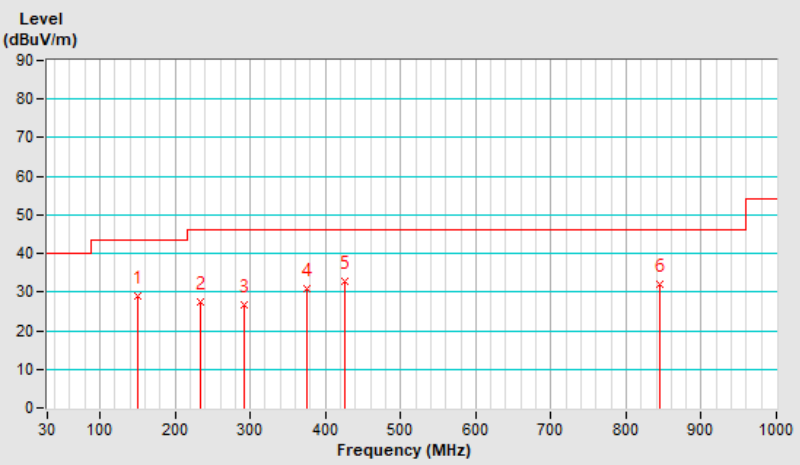


Combination	3		
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	22 °C, 65 % RH
Tested By	Willy Lin		

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	149.48	28.9 QP	43.5	-14.6	1.00 V	202	46.1	-17.2
2	234.15	27.6 QP	46.0	-18.4	1.50 V	171	47.1	-19.5
3	291.49	26.7 QP	46.0	-19.3	2.00 V	196	43.8	-17.1
4	374.65	30.9 QP	46.0	-15.1	1.00 V	43	45.9	-15.0
5	425.42	32.9 QP	46.0	-13.1	1.50 V	141	46.4	-13.5
6	844.05	32.1 QP	46.0	-13.9	2.00 V	325	38.2	-6.1

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 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



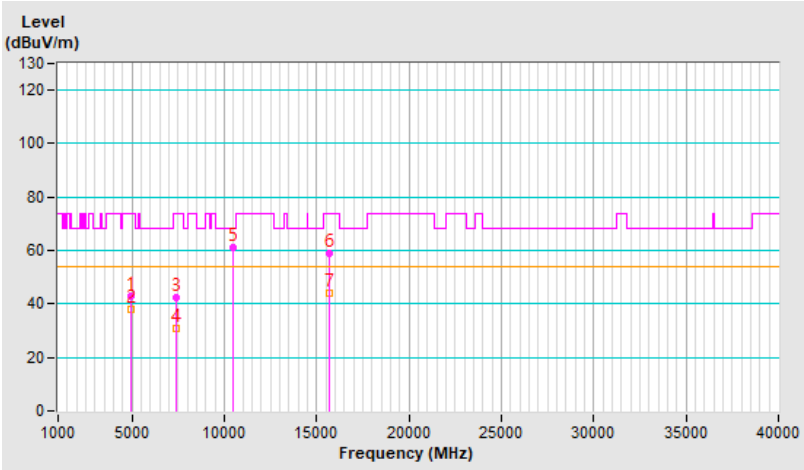
7.2 Unwanted Emissions above 1 GHz

Combination	1		
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 72 % RH
Tested By	Willy Lin		

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	4924	42.8 PK	74.0	-31.2	1.65 H	0	41.4	1.4
2	4924	38.0 AV	54.0	-16.0	1.65 H	0	36.6	1.4
3	7386	42.3 PK	74.0	-31.7	1.58 H	10	34.9	7.4
4	7386	30.6 AV	54.0	-23.4	1.58 H	10	23.2	7.4
5	#10480	61.1 PK	68.2	-7.1	1.59 H	258	49.1	12.0
6	15720	58.8 PK	74.0	-15.2	1.57 H	263	47.2	11.6
7	15720	43.8 AV	54.0	-10.2	1.57 H	263	32.2	11.6

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

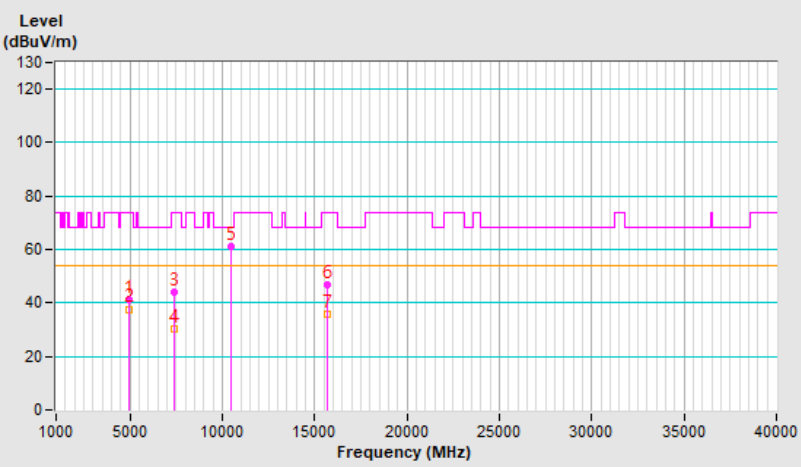


Combination	1		
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 72 % RH
Tested By	Willy Lin		

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	4924	41.1 PK	74.0	-32.9	3.94 V	282	39.7	1.4
2	4924	37.7 AV	54.0	-16.3	3.94 V	282	36.3	1.4
3	7386	44.0 PK	74.0	-30.0	1.67 V	360	36.6	7.4
4	7386	30.4 AV	54.0	-23.6	1.67 V	360	23.0	7.4
5	#10480	61.2 PK	68.2	-7.0	1.83 V	317	49.2	12.0
6	15720	46.9 PK	74.0	-27.1	1.58 V	188	35.3	11.6
7	15720	35.7 AV	54.0	-18.3	1.58 V	188	24.1	11.6

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

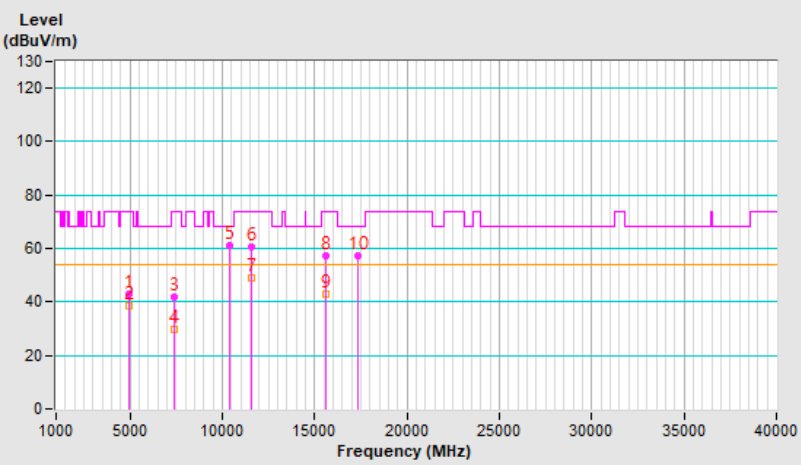


Combination	2		
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 72 % RH
Tested By	Willy Lin		

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	4924	42.8 PK	74.0	-31.2	1.66 H	0	41.4	1.4
2	4924	38.6 AV	54.0	-15.4	1.66 H	0	37.2	1.4
3	7386	41.8 PK	74.0	-32.2	1.60 H	15	34.4	7.4
4	7386	29.8 AV	54.0	-24.2	1.60 H	15	22.4	7.4
5	#10400	61.2 PK	68.2	-7.0	1.42 H	309	49.3	11.9
6	11570	60.8 PK	74.0	-13.2	1.49 H	262	48.2	12.6
7	11570	49.1 AV	54.0	-4.9	1.49 H	262	36.5	12.6
8	15600	57.3 PK	74.0	-16.7	1.45 H	319	45.1	12.2
9	15600	42.7 AV	54.0	-11.3	1.45 H	319	30.5	12.2
10	#17355	57.2 PK	68.2	-11.0	1.42 H	305	39.3	17.9

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

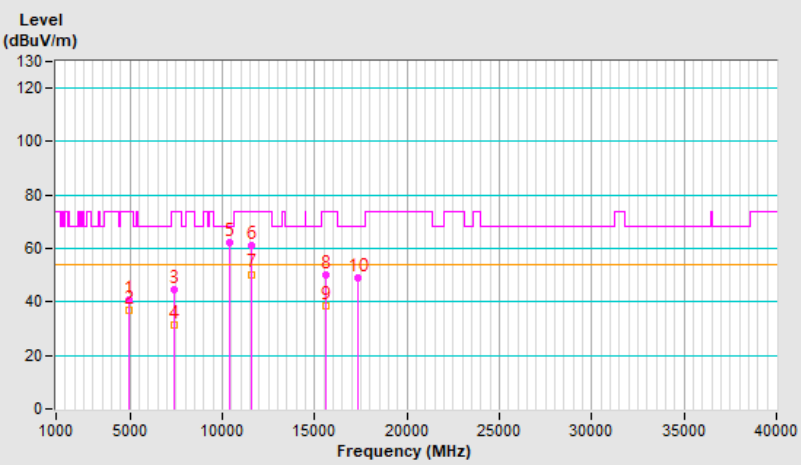


Combination	2		
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 72 % RH
Tested By	Willy Lin		

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	4924	40.6 PK	74.0	-33.4	3.98 V	317	39.2	1.4
2	4924	36.8 AV	54.0	-17.2	3.98 V	317	35.4	1.4
3	7386	44.7 PK	74.0	-29.3	1.87 V	359	37.3	7.4
4	7386	31.4 AV	54.0	-22.6	1.87 V	359	24.0	7.4
5	#10400	62.0 PK	68.2	-6.2	1.63 V	268	50.1	11.9
6	11570	61.0 PK	74.0	-13.0	1.64 V	218	48.4	12.6
7	**11570**	**50.4 AV**	**54.0**	**-3.6**	**1.64 V**	**218**	**37.8**	**12.6**
8	15600	50.0 PK	74.0	-24.0	1.47 V	112	37.8	12.2
9	15600	38.4 AV	54.0	-15.6	1.47 V	112	26.2	12.2
10	#17355	48.8 PK	68.2	-19.4	1.42 V	111	30.9	17.9

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

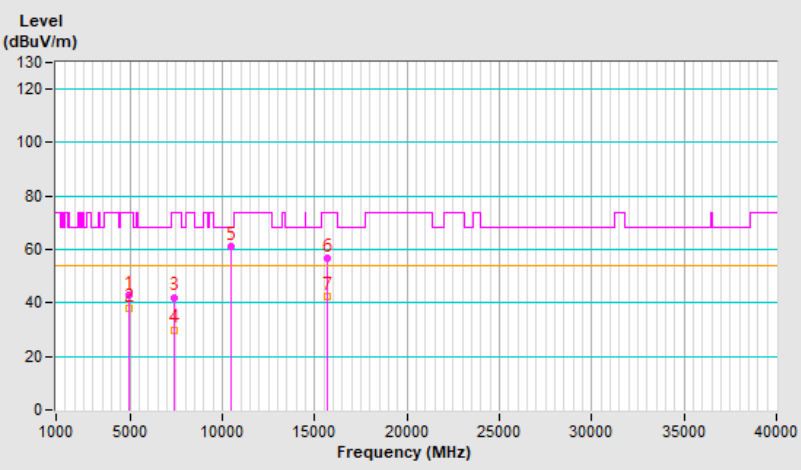


Combination	3		
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 72 % RH
Tested By	Willy Lin		

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	4924	43.1 PK	74.0	-30.9	1.83 H	43	41.7	1.4
2	4924	37.9 AV	54.0	-16.1	1.83 H	43	36.5	1.4
3	7386	42.1 PK	74.0	-31.9	1.48 H	143	34.7	7.4
4	7386	30.0 AV	54.0	-24.0	1.48 H	143	22.6	7.4
5	#10480	61.0 PK	68.2	-7.2	1.38 H	295	49.0	12.0
6	15720	56.7 PK	74.0	-17.3	1.47 H	309	45.1	11.6
7	15720	42.3 AV	54.0	-11.7	1.47 H	309	30.7	11.6

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

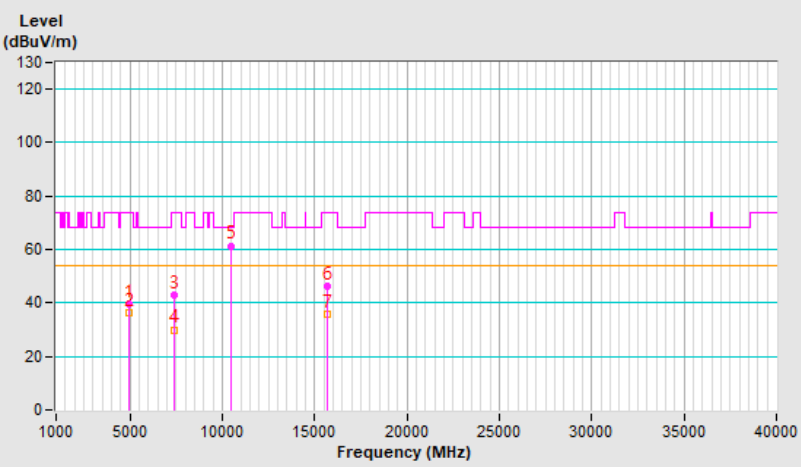


Combination	3		
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 72 % RH
Tested By	Willy Lin		

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	4924	39.4 PK	74.0	-34.6	3.94 V	318	38.0	1.4
2	4924	36.2 AV	54.0	-17.8	3.94 V	318	34.8	1.4
3	7386	42.9 PK	74.0	-31.1	1.61 V	351	35.5	7.4
4	7386	30.0 AV	54.0	-24.0	1.61 V	351	22.6	7.4
5	#10480	61.4 PK	68.2	-6.8	1.93 V	279	49.4	12.0
6	15720	46.1 PK	74.0	-27.9	1.51 V	182	34.5	11.6
7	15720	35.6 AV	54.0	-18.4	1.51 V	182	24.0	11.6

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

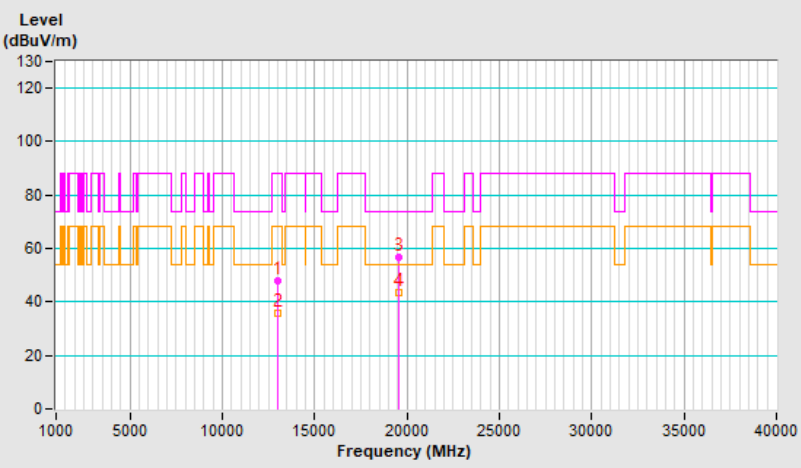


Combination	3		
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25 °C, 75 % RH
Tested By	Willy Lin		

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	#13030	47.9 PK	88.2	-40.3	1.87 H	51	74.9	-27.0
2	#13030	35.8 AV	68.2	-32.4	1.87 H	51	62.8	-27.0
3	19545	56.6 PK	74.0	-17.4	1.94 H	97	61.4	-4.8
4	19545	43.7 AV	54.0	-10.3	1.94 H	97	48.5	-4.8

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

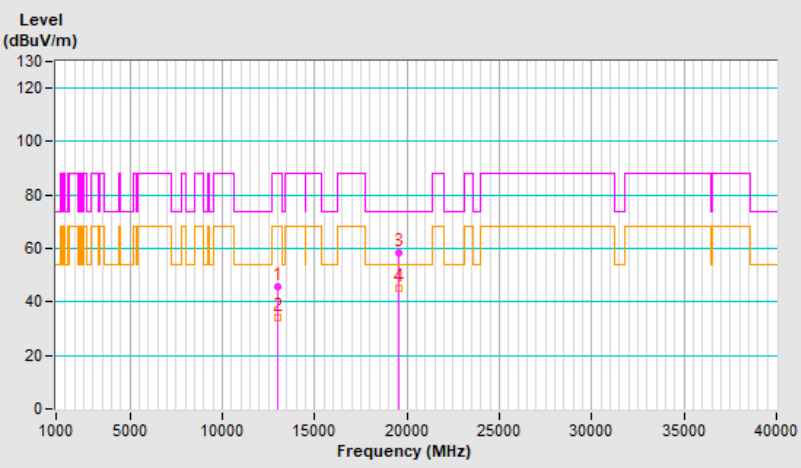


Combination	3		
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	25 °C, 75 % RH
Tested By	Willy Lin		

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	#13030	45.9 PK	88.2	-42.3	1.66 V	21	72.9	-27.0
2	#13030	34.1 AV	68.2	-34.1	1.66 V	21	61.1	-27.0
3	19545	58.4 PK	74.0	-15.6	1.59 V	58	63.2	-4.8
4	19545	45.2 AV	54.0	-8.8	1.59 V	58	50.0	-4.8

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



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 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.

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

Lin Kou EMC/RF Lab
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab
Tel: 886-3-6668565
Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab
Tel: 886-3-3183232
Fax: 886-3-3270892

Email: service.adt@bureauveritas.com
Web Site: http://ee.bureauveritas.com.tw

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

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