FCC RADIO TEST REPORT

Applicant : Ubiquiti Inc.

Address : 685 Third Avenue, New York, New York 10017 USA

Report No.: TEFU1906240

Equipment : Mesh Points

Model No. : AFi-P-HD, AFi-P-G

Trade Name : UBIQUITI

FCC ID. : SWX-AFPHDP

I HEREBY CERTIFY THAT:

The sample was received on Jun. 28, 2019 and the testing was completed on Aug. 27, 2019 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

TAF

Testing Laboratory
1439

Cerpass Technology Corp. Issued date : Sep. 18, 2019

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History of this test report

Report No.	Issue Date	Description
TEFU1906240	Sep. 18, 2019	Original

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1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.4:2014

ANSI C63.10:2013

FCC Rule	. Description of Test	Result
15.203	. CO-LOCATION	PASS

^{*}The lab has lowered the uncertainty risk of test equipment, environment, and staff technicians according to ISO-IEC17025. Therefore we define test result as compliant when it complies with the standard without further evaluation of test result uncertainty.

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^{*}This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(TEFD1906240).

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

	000 44h /a/a, 0400 0400 FM I-
Frequency Range	802.11b/g/n: 2400-2483.5MHz
Troquerity runge	802.11a/n/ac: 5150-5250MHz, 5725-5850MHz
	802.11b: CCK, DQPSK, DBPSK
Modulation Type	802.11g/n/a: BPSK, QPSK, 16QAM, 64QAM
-	802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Modulation Technology	DSSS, OFDM
	WLAN:
	802.11b: 1, 2, 5.5, 11Mbps
Data Data	802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
Data Rate	802.11n: MCS0 – MCS23, HT20/40
	802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	Internal Antenna
	2400-2483.5MHz: ANT A / B / C: 5dBi
Antenna Gain	5150-5250MHz: ANT A / B / C: 5dBi
	5725-5850MHz: ANT A / B / C: 5dBi
Firmware Number	v3.3.0

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Difference description

Model No.	Remark
AFi-P-HD	The differences between these two model numbers is housing
AFi-P-G	color.

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2.2 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included Notebook and EUT for RF test.
- c. An executive program, "Art2 Command" under win7 was executed to transmit and receive data via Bluetooth.
- d. The following test modes were performed for the test:

The following test modes were performed for the test.						
Conducted	Conducted Emissions from the AC mains power ports					
Test Mode	Operating Description					
1	2.4G 802.11g CH6 + 5G 802.11ac VHT40 CH159					
caused "Te	st Mode 1" generated the worst case, it was reported as the final data.					
Radiation E	missions (30MHz ~ 1GHz)					
Test Mode	Operating Description					
1	2.4G 802.11g CH6 + 5G 802.11ac VHT40 CH159					
caused "Te	st Mode 1" generated the worst case, they were reported as the final data.					
Radiation E	Emissions (1GHz ~ 25GHz)					
Test Mode	Test Mode Operating Description					
1	2.4G 802.11g CH6 + 5G 802.11ac VHT40 CH159					
caused "Te	caused "Test Mode 1" generated the worst case, they were reported as the final data.					

2.3 Description of Test System

N/A

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2.4 General Information of Test

	Address Taiwan (Tel:+886	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881		
Test Site	FCC	TW1439, TW1079		
	IC	4934E-1, 4934E-2		
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz		
Frequency Range Investigated:		ed: from 150kHz to 30 MHz n: from 30 MHz to 40,000MHz		
Test Distance: The test distance of radiated emission from antenna to E		distance of radiated emission from antenna to EUT is 3 M.		

Test Item	Test Site	Finish Date	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2019/08/16	22°C / 62%	Vic Yeh
Radiated Emissions	3M02-NK	2019/08/22	24°C / 60%	Vic Yeh
AC Power Line Conducted Emission	CON01-NK	2019/08/27	22°C / 60%	Leon Huang

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2.5 Measurement Uncertainty

B.4	I
Measurement Item	Uncertainty
Radiated Spurious Emission(9KHz~30MHz)	±3.405dB
Radiated Spurious Emission(30MHz~1GHz)	±5.326dB
Radiated Spurious Emission(1GHz~40GHz)	±5.011dB
6dB Bandwidth	±4.407%
26dB Bandwidth	±4.459%
Occupied Bandwidth	±4.403%
Peak Output Power(Conducted Power Meter)	±1.31dB
Power Spectral Density	±2.106dB
Duty Cycle	±0.17%
Frequency Stability	±156.543Hz
Temperature	±1.2℃
Humidity	±2.7%

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3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions					
Test Site	Semi Anechoic Room(3M02-NK)					
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date	
Bilog Antenna	Schwarzbeck	VULB9168	275	2018/09/17	2019/09/16	
Active Loop Antenna	EMCO	6507	40855	2019/05/24	2020/05/23	
Horn Antenna	EMCO	3115	31589	2019/04/01	2020/03/31	
Horn Anrenna	EMCO	3116	31974	2018/09/07	2019/09/06	
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2019/05/14	2020/05/13	
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2019/03/28	2020/03/27	
Preamplifier	EM Electronics corp.	EM330	60660	2019/03/11	2020/03/10	
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2018/09/18	2019/09/17	
Preamplifier	Agilent	8449B	3008A01954	2019/03/11	2020/03/10	
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06	
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1316	2018/09/12	2019/09/11	
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805443/4	2019/05/20	2020/05/19	
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805796/4	2019/05/20	2020/05/19	
Cable-8m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805795/4	2019/05/20	2020/05/19	
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA	

Test Item	RF Conducted					
Test Site	RFCON01-NK					
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date	
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2019/03/28	2020/03/27	
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06	
Attenuator	KEYSIGHT	8491B	MY39250705	2018/09/04	2019/09/03	
TEMP & HUMI CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2018/08/30	2019/08/29	
Power Sensor	Anritsu	MA2411B	1207295	2019/04/09	2020/04/08	

Test Item	AC Power Line Conducte	ed Emission				
Test Site	CON01-NK					
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date	
EMI Receiver	ROHDE & SCHWARZ	ESCI	100443	2019/03/29	2020/03/28	
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2019/03/15	2020/03/14	
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2019/03/12	2020/03/11	
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2019/03/14	2020/03/13	
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA	

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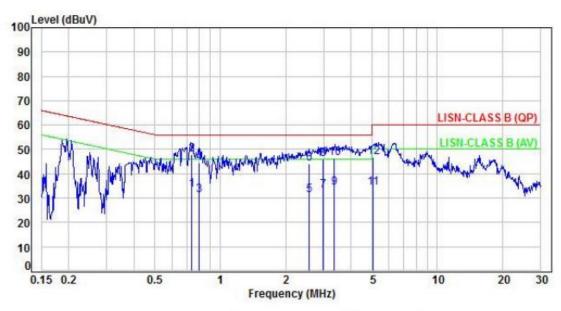
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4. Test of AC Power Line Conducted Emission

4.1 Test Result and Data

Power	:	AC 120V / 60Hz	Pol/Phase :	LINE
Test Mode	:	Mode 1	:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.74	9.91	23.57	33.48	46.00	-12.52	Average	P
2	0.74	9.91	37.91	47.82	56.00	-8.18	QP	P
3	0.80	9.91	21.22	31.13	46.00	-14.87	Average	P
4	0.80	9.91	34.53	44.44	56.00	-11.56	QP	P
5	2.56	9.98	21.06	31.04	46.00	-14.96	Average	P
6	2.56	9.98	33.98	43.96	56.00	-12.04	QP	P
7	2.98	10.00	22.99	32.99	46.00	-13.01	Average	P
8	2.98	10.00	35.87	45.87	56.00	-10.13	QP	P
9	3.34	10.01	24.34	34.35	46.00	-11.65	Average	P
10	3.34	10.01	36.56	46.57	56.00	-9.43	QP	P
11	5.06	10.04	24.12	34.16	50.00	-15.84	Average	P
12	5.06	10.04	36.71	46.75	60.00	-13.25	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

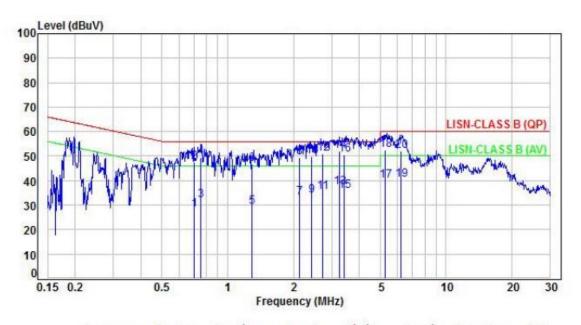
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

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Power	:	AC 120V / 60Hz	Pol/Phase :	NEUTRAL
Test Mode	:	Mode 1	:	



No.		Factor (dB)				Margin (dB)	Detector	P/F
1	0.71	9.91	18.35	28.26	46.00	-17.74	Average	P
2	0.71	9.91	37.56	47.47	56.00	-8.53	QP	P
3	0.75	9.91	22.19	32.10	46.00	-13.90	Average	P
4	0.75	9.91	39.66	49.57	56.00	-6.43	QP	P
5	1.30	9.93	19.16	29.09	46.00	-16.91	Average	P
6	1.30	9.93	36.93	46.86	56.00	-9.14	QP	P
7	2.13	9.96	23.02	32.98	46.00	-13.02	Average	P
7 8 9	2.13	9.96	39.55	49.51	56.00	-6.49	QP	P
9	2.41	9.97	24.02	33.99	46.00	-12.01	Average	P
10	2.41	9.97	39.67	49.64	56.00	-6.36	QP	P
11	2.73	9.98	25.19	35.17	46.00	-10.83	Average	P
12	2.73	9.98	40.79	50.77	56.00	-5.23	QP	P
13	3.25	10.01	27.11	37.12	46.00	-8.88	Average	P
14	3.25	10.01	42.05	52.06	56.00	-3.94	QP	P
15	3.42	10.01	25.84	35.85	46.00	-10.15	Average	P
16	3.42	10.01	40.57	50.58	56.00	-5.42	QP	P
17	5.26	10.04	29.88	39.92	50.00	-10.08	Average	P
18	5.26	10.04	42.44	52,48	60.00	-7.52	QP	P
19	6.21	10.06	30.16	40.22	50.00	-9.78	Average	P
20	6.21	10.06	42.16	52.22	60.00	-7.78	QP	P

Note: Level=Reading+Factor Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

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5. Test of Spurious Emission (Radiated)

5.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/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

5.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

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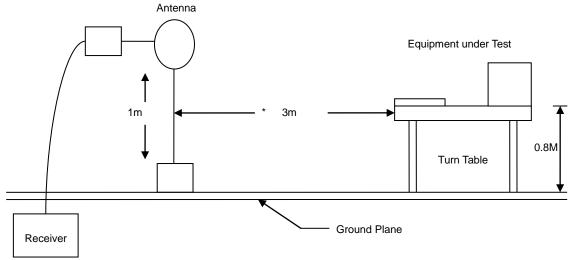
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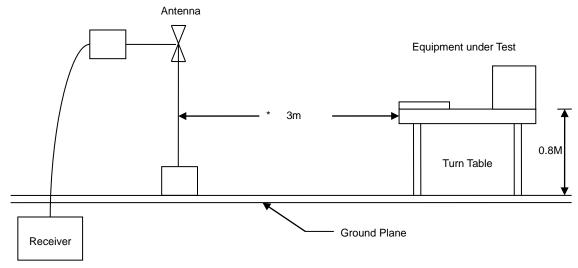


5.3 Typical Test Setup

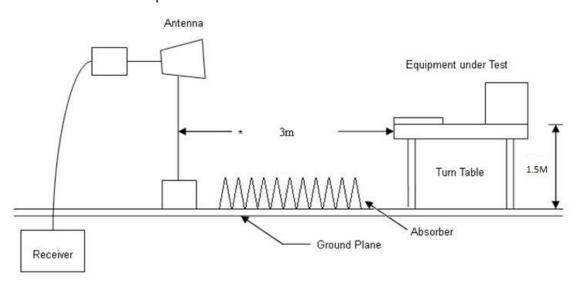
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



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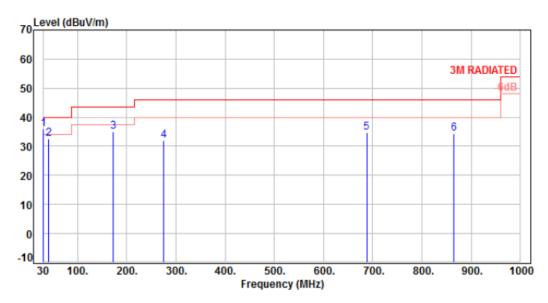


5.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

5.5 Test Result and Data (30MHz ~ 1GHz)

Power	:	AC 120V / 60Hz	Pol/Phase :	VERTICAL
Test Mode	:	Mode 1	:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-10.51	46.50	35.99	40.00	-4.01	QP	100	267	P
2	40.67	-9.60	42.19	32.59	40.00	-7.41	QP	100	126	P
3	171.62	-9.80	44.88	35.08	43.50	-8.42	Peak	100	0	P
4	274.44	-9.39	41.43	32.04	46.00	-13.96	Peak	100	0	P
5	687.66	-0.28	34.88	34.60	46.00	-11.40	Peak	100	0	P
6	864.20	2.19	32.28	34.47	46.00	-11.53	Peak	100	0	P

Note: Level=Reading+Factor Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

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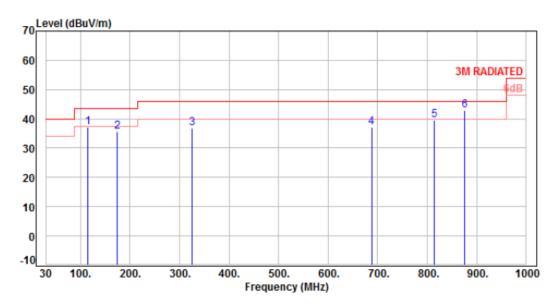
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Power	:	AC 120V / 60Hz	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 1	:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	115.36	-12.32	49.58	37.26	43.50	-6.24	Peak	100	0	P
2	173.56	-10.15	45.91	35.76	43.50	-7.74	Peak	100	0	P
3	324.88	-7.98	44.71	36.73	46.00	-9.27	Peak	100	0	P
4	687.66	-0.28	37.44	37.16	46.00	-8.84	Peak	100	0	P
5	813.76	1.63	37.95	39.58	46.00	-6.42	Peak	100	0	P
6	875.84	2.41	40.44	42.85	46.00	-3.15	Peak	100	0	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

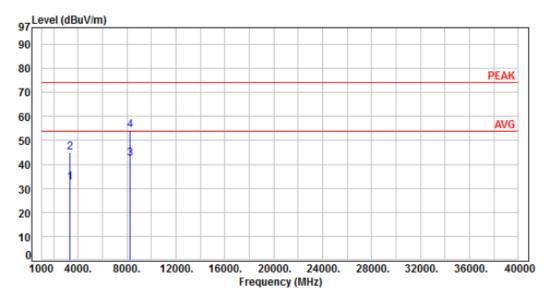
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5.6 Test Result and Data (1GHz ~ 40GHz)

Power	:	AC 120V / 60Hz	Pol/Phase :	VERTICAL
Test Mode	:	Mode 1	••	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	3333.00	0.28	32.26	32.54	54.00	-21.46	Average	112	337	Р
2	3333.00	0.28	44.67	44.95	74.00	-29.05	Peak	112	337	P
3	8257.00	9.86	32.71	42.57	54.00	-11.43	Average	100	117	P
4	8257.00	9.86	44.37	54.23	74.00	-19.77	Peak	100	117	P

Note: Level=Reading+Factor Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

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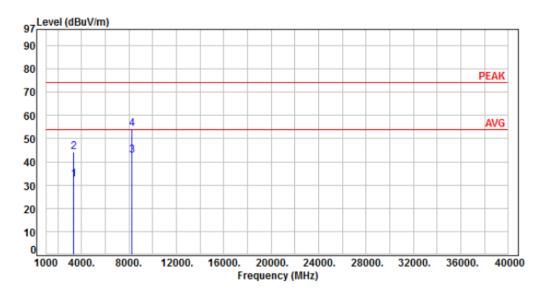
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Power	:	AC 120V / 60Hz	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 1	:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
	2222 00	0.20	22.26	32.54	F4 00	21 46	A	110	50	D.
1	3333.00	0.28	32.26		54.00	-21.46	Average	118	59	P
2	3333.00	0.28	43.88	44.16	74.00	-29.84	Peak	118	59	P
3	8257.00	9.86	32.86	42.72	54.00	-11.28	Average	100	221	P
4	8257.00	9.86	44.52	54.38	74.00	-19.62	Peak	100	221	P

Note: Level=Reading+Factor Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

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5.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 - 0.11000	16.42000 - 16.42300	399.9 – 410.0	4.500 - 5.250
0.49500 - 0.505**	16.69475 - 16.69525	608.0 - 614.0	5.350 - 5.460
2.17350 - 2.19050	16.80425 - 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 - 25.67000	1300.0 – 1427.0	8.025 - 8.500
4.17725 – 4.17775	37.50000 - 38.25000	1435.0 – 1626.5	9.000 - 9.200
4.20725 – 4.20775	73.00000 - 74.60000	1645.5 – 1646.5	9.300 - 9.500
6.21500 - 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 - 6.26825	108.00000 - 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 - 138.00000	2200.0 - 2300.0	14.470 – 14.500
8.29100 - 8.29400	149.90000 - 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 - 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 - 8.38675	156.70000 - 156.90000	2655.0 - 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 - 167.17000	3260.0 - 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 - 173.20000	3332.0 - 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 - 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 - 335.40000	3600.0 - 4400.0	Above 38.6
13.36000 – 13.41000			

^{**:} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

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