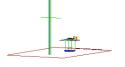


PCTEST Engineering Laboratory, Inc.

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http://www.pctestlab.com



CERTIFICATE OF COMPLIANCE

UNIDEN ENGINEERING SERVICES

216 John Street P.O. Box 580

Lake City, SC 29560-0580

Attn: Mr. Jim Haynes, Vice President ~ Engineering & Regulatory Affairs

Dates of Tests: October 7-8, 2002 Test Report S/N: 15.220918518.AMW

Test Site: PCTEST Lab, Columbia MD

FCC ID

Randy Ortanez

President

AMWUP300

APPLICANT

UNIDEN AMERICA CORP.

FCC Rule Part(s): § 15.247; ANSI C-63.4 (1992)
Classification: Spread Spectrum Transceiver
Max Output Power: 0.182W Conducted (Base/Head Set)

Method/System: Frequency Hopping Spread Spectrum (FHSS)

Equipment Type: 2.4 GHz FHSS Cordless Phone Frequency Range: 2400 – 2483.5 MHz (FHSS)

Model No(s).: DCT5260

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C-63-4.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.

PCTEST™ PT. 15.247 REPORT	EVALUATION REPORT Unider		Reviewed By: Quality Manager	
Test Report S/N: 15.220918518.AMW	Test Dates: OCT. 7-8, 2002	EUT Type: 2.4GHZ FHSS CORDLESS PHONE	FCC ID: AMWUP300	Page 1 of 18

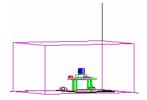


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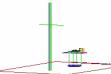
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MEASUREMENT REPORT



Scope - Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

§2983(a) General Information

Applicant Name:

Address:

216 John Street, P.o.Box 580
Lake City, SC 29560-0580

Attention:

Mr. Jim Hayes, Vice President Engineering & Regulatory Affairs

FCC ID: AMWUP300

Class: Spread Spectrum Transceiver (FHSS)

• Type: 2.4 GHz FHSS Cordless Phone

• Freq. Range: 2400 – 2485.3 MHz

Method/System: GFSK

Model No(s): DCT5260

Max. RF Output Power: 0.182W Conducted (Base/Head Set)

• Rule Part(s): § 15.247

• Dates of Tests: October 7-8, 2002

Place of Tests:
 PCTEST Lab, Columbia, MD U.S.A.

• Test Report S/N: 220918518.AMW

NOTE: The receiver portion was tested and complies with Part 15B under the verification procedure.

PCTEST™ PT. 15.247 REPORT	PCTEST EVALUATION REPORT		Iniden	Reviewed By: Quality Manager
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INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-1992) and FCC Public Notice dated July 12, 1995 entitled "Guidance on Measurement for Direct Sequence Spread Spectrum Systems" were used in the measurement of **Uniden Spread Spectrum** 2.4 GHz FHSS Cordless Phone.

These measurement tests were conducted at *PCTEST Engineering Laboratory, Inc.* facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 1992.

PCTEST Location

The map at right shows the location of the PCTEST Lab, its proximity to the FCC Lab, the Columbia vicinity area, the Baltimore-Washington International (BWI) airport, and the city of Baltimore, and the Washington, D.C. area. (see Figure 1).

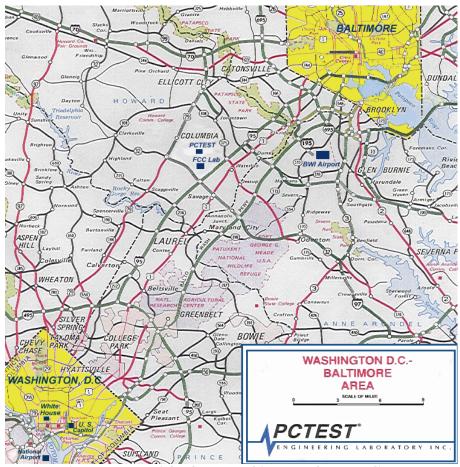


Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

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PRODUCT INFORMATION

Table-1. Channel frequency table

Channel	1	2	3	4	5	6	7	8	9	10	11
Frequency	2400.	2401.	2402.	2403.	2404.	2405.	2406.	2407.	2408.	2408.	2409.
(MHz)	916581	808452	700323	592194	484065	375936	267807	159678	051549	943420	835291
Channel	12	13	14	15	16	17	18	19	20	21	22
Frequency	2410.	2411.	2412.	2413.	2414.	2415.	2416.	2416.	2417.	2418.	2419.
(WHz)	727162	619033	510904	402775	294646	186517	078388	970259	862130	754001	\$45872
Channel	23	24	25	26	27	28	29	30	31	32	33
Frequency	2420.	2421.	2422.	2423.	2424.	2424.	2425.	2426.	2427.	2428.	2429.
(WHz)	537743	429614	321485	213356	105227	997098	888969	780840	672711	564582	456453
Channel	34	35	36	37	38	39	40	41	42	43	44
Frequency	2430.	2431.	2432.	2433.	2433.	2434.	2435.	2436.	2437.	2438.	2439.
(WHz)	348324	240195	132066	023937	915808	807679	69955	591421	483292	375163	267034
Channel	45	46	47	48	49	50	51	52	53	54	55
Frequency	2440.	2441.	2441.	2442.	2443.	2444.	2445.	2446.	2447.	2448.	2449.
(MHz)	158905	050776	942647	834518	726389	618260	510131	402002	293873	185744	077815
Channel	56	57	58	59	60	61	62	63	64	65	66
Frequency	2449.	2450.	2451.	2452.	2453.	2454.	2455.	2456.	2457.	2457.	2458.
(MHz)	969486	861357	753228	645099	536970	428841	320712	212583	104454	996325	888196
				,		,					
Channel	67	68	69	70	71	72	73	74	75	76	77
Frequency	2459.	2460.	2461.	2462.	2463.	2464.	2465.	2466.	2466.	2467.	2468.
(WHz)	780067	671938	583809	455680	347551	239422	131293	023164	915035	806906	698777
	,		,					,	,		
Channel	78	79	80	81	82	83	84	85	86	87	88
Frequency	2469.	2470.	2471.	2472.	2473.	2474.	2474.	2475.	2476.	2477.	2478.
(MHz)	590648	482519	374390	266261	158132	050003	941874	833745	725616	617487	509358

Channel	89
Frequency	2479.
(MHz)	401228

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Figure 4. Shielded Enclosure Line-Conducted Test Facility

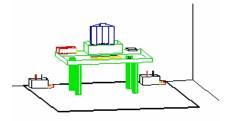


Figure 2. Line Conducted Emission Test Set-Up

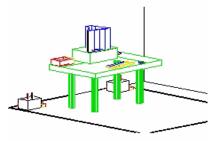


Figure 3. Wooden Table & Bonded LISNs

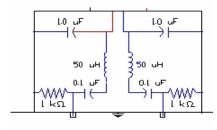


Figure 5. LISN Schematic Diagram

Description of Tests

Conducted Emissions

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure. It is manufactured by Ray Proof Series 81 (see Figure 2). The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m. x 1.5m. wooden table 80cm. high is placed 40cm, away from the vertical wall and 1.5m away from the side wall of the shielded room (see Figure 3). Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (see Figure 4). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filters (100dB 14kHz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the Solar LISN. schematic diagram is shown in Figure 5. All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT. spectrum was scanned from 450kHz to 30MHz with 20 msec. sweep time. The frequency producing the maximum level was reexamined using EMI/ Field Intensity Meter and Quasi-Peak adapter. detector function was set to CISPR quasi-peak mode. The bandwidth of the receiver was set to 10 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Appendix C. Each EME reported was calibrated using the HP8640B signal generator.



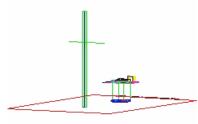


Figure 6. 3-Meter Test Site

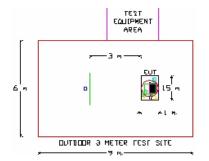


Figure 7. Dimensions of Outdoor Test Site

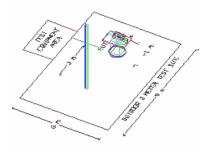


Figure 8. Turntable and System Setup

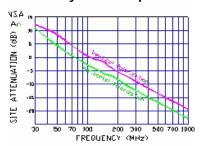


Figure 9. Normalized Site Attenuation Curves (H&V)

Description of Tests (Continued)

Radiated Emissions

Preliminary measurements were made indoors at 1 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using biconical antenna and from 200 to 1000 MHz using log-spiral antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using Roberts™ Dipole antennas or horn antenna (see Figure 6). The test equipment was placed on a wooden and plastic bench situated on a 1.5 x 2 meter area adjacent to the measurement area (see Figure 7). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was reexamined and investigated using EMI/Field Intensity Meter and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100kHz or 1 MHz depending on the frequency or type of signal.

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8meter high non-metallic 1 x 1.5 meter table (see Figure 8). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worstcase emission. Photographs of the worst-case emission can be seen in Appendix C. Each EME reported was calibrated using the HP8640B signal generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 9.

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§ 15.205 Restricted Bands

Special attention is made for the EUT's harmonic and spurious radiated emission in the restricted bands of operation. The EUT was tested from 9kHz and up to the tenth harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average measurements was used using RBW 1 MHz – VBW 10Hz and linearly polarized horn antennas. In addition, peak measurements were taken to ensure that the peak levels are not more than 20dB above the average limit. All out of band emissions, other than those created by the spreading sequence, data sequence, and the carrier modulation must not exceed the limits show in Table 2 per 15.209.

Frequency	F/S	Meas. Dist.
(MHz)	(UV/m)	(Meters)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.00	30	30
30.0-88.0	100	3
88.0-216.0	150	3
216.0-960.0	200	3
Above 960	500	3

Tab. 2. Radiated Emission Limits Per 15.209

Test Equipment

HP 8566B Spectrum Analyzer 100Hz-22HGHz

HP83017A Microwave Analyzer 40dB Gain (0.5 – 26.5 GHz)

HP 3784A Digital Transmission Analyzer

EMCO 3115 Horn Antenna (1 – 18GHz)

HP 8495A 20dB Attenuator (DC-40GHz) 0-70dB

HP 8493B 10dB Attenuator

MicroCoax Cables Low Loss Microwave Cables (1-26.5 GHz)

CDI Dipoles Dipole Antennas (30 – 1000 MHz)

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§ 15.203 Antenna Requirement

An intentional radiator antenna shall be designed to ensure that no antenna other that that furnished by the applicant can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with this requirement.

The Uniden **DCT5260** unit complies with the requirement of §15.203. The antenna is a permanently attached omni-directional antenna.

CONCLUSION

There are no provisions for connection to an external antenna. The unit meets the Antenna Requirements of §15.203.

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§15.247(a)(2) - 20dB Bandwidth (Head Set)

Res. Bandwidth = 100 kHz (7dB/div)

Vid. BW = 100 kHz Span = 3.0MHz Ref. Level - 21.5 dBm

Sweep 5ms

(see attached spectrum plots)

FREQ	Channel	20dB Bandwidth
(MHz)		(MHz)
2401	1	.937
2439	44	.938
2479	89	.932

Table 3. 20dB Bandwidth measurements

Minimum Standard – The transmitter shall have a minimum 6dB bandwidth of 500Hz (0.5 MHz). These are radiated measurements.

REMARKS:

PCTEST™ PT. 15.247 REPORT	PCTEST EVALUATION REPORT		Uniden	Reviewed By: Quality Manager
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§15.247(a)(2) - 20dB Bandwidth (Base)

Res. Bandwidth = 100 kHz (7dB/div)

Sweep 10ms

(see attached spectrum plots)

FREQ	Channel	20dB Bandwidth
(MHz)		(MHz)
2401	1	.967
2439	44	.983
2479	89	.971

Table 3. 20dB Bandwidth measurements

Minimum Standard – The transmitter shall have a minimum 6dB bandwidth of 500Hz (0.5 MHz). These are radiated measurements.

REMARKS:

PCTEST™ PT. 15.247 REPORT	PCTEST EVALUATION REPORT		Uniden	Reviewed By: Quality Manager
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§15.247(b) Maximum Peak Output Power (Head Set)

Minimum Standard – The maximum peak output power of the transmitter shall not exceed 1 watt. Radiated power measurements were teaken at 3 meters with a power meter.

Max. Power Peak + Atten = dBm ⇒ Watts

FREQ	Channel	Power Output
(MHz)		(dBm)
2401	1	22.60
2439	44	22.30
2479	89	20.77

Table 4. Output Power Measurements

Minimum Standard – The transmitter peak output power of the transmitter shall not exceed 1 watt. These are radiated measurements.

REMARKS:

PCTEST™ PT. 15.247 REPORT	PCTEST EVALUATION REPORT LINI		Iniden	Reviewed By: Quality Manager
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§15.247(b) Maximum Peak Output Power (Base) (Wire Antenna)

Minimum Standard – The maximum peak output power of the transmitter shall not exceed 1 watt. Radiated power measurements were teaken at 3 meters with a power meter.

Max. Power Peak + Atten = dBm ⇒ Watts

FREQ	Channel	Power Output
(MHz)		(dBm)
2401	1	19.47
2439	44	18.27
2479	89	18.07

Table 4. Output Power Measurements

Minimum Standard – The transmitter peak output power of the transmitter shall not exceed 1 watt. These are radiated measurements.

REMARKS:

PCTEST™ PT. 15.247 REPORT	PCTEST EVALUATION REPORT U		Jniden'	Reviewed By: Quality Manager
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§15.247(b) Maximum Peak Output Power (Base) (Dipole Antenna)

Minimum Standard – The maximum peak output power of the transmitter shall not exceed 1 watt. Radiated power measurements were teaken at 3 meters with a power meter.

Max. Power Peak + Atten = dBm ⇒ Watts

FREQ	Channel	Power Output
(MHz)		(dBm)
2401	1	22.47
2439	44	20.87
2479	89	20.57

Table 4. Output Power Measurements

Minimum Standard – The transmitter peak output power of the transmitter shall not exceed 1 watt. These are radiated measurements.

REMARKS:

PCTEST™ PT. 15.247 REPORT	PCTEST EVALUATION REPORT		Iniden	Reviewed By: Quality Manager
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RADIATED Measurements (Fundamental & Harmonics) (Head Set)

A. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 45

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2401	- 20.9	31.7	V	Peak	778933	117.8	n/a
4802	- 102.8	39.4	V	Peak	151.182	43.59	- 10.41
7203	- 115.0	46.4	V	Peak	83.3681	38.42	- 79.41
9604	< - 130						
12005	< - 130						

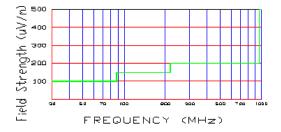


Figure 10. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- 2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- 3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- 4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- 5. The antenna is manipulated through typical positions, polarity and length during the tests.
- 6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- 7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 8. < 130 are below the analyzer floor level.

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RADIATED Measurements (Fundamental & Harmonics) (CONT.) (Head Set)

B. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 45

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2440	- 21.3	31.8	V	Peak	752489	117.5	n/a
4880	- 102.8	39.5	V	Peak	154.882	43.8	- 10.2
7320	- 115.0	47.0	V	Peak	93.3254	39.4	- 15.6
9760	< - 130						
12200	< - 130						

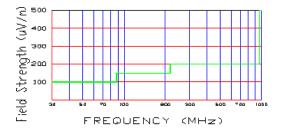


Figure 11. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- 2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- 3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- 4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- 5. The antenna is manipulated through typical positions, polarity and length during the tests.
- 6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- 7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 8. < 130 are below the analyzer floor level.

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RADIATED Measurements (Fundamental & Harmonics) (CONT.) (Head Set)

C. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 45

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2479	- 22.9	31.9	V	Peak	630957	116.0	n/a
4958	- 103.7	39.7	V	Peak	141.254	43.0	- 11.0
7320	- 114.6	47.2	V	Peak	80.3526	38.1	- 15.9
9760	< - 130						
12395	< - 130						

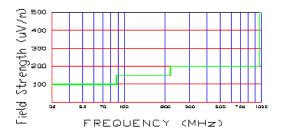


Figure 12. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- 2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- 3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- 4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- 5. The antenna is manipulated through typical positions, polarity and length during the tests.
- 6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- 7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 8. < 130 are below the analyzer floor level.

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RADIATED Measurements (Fundamental & Harmonics) (Base) (Whip Antenna)

A. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 1

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2401	- 24.0	31.7	V	Peak	543250	114.7	n/a
4802	- 106.0	39.4	V	Peak	104.592	40.4	- 13.61
7203	- 120.0	46.4	V	Peak	46.8813	33.4	- 81.28
9604	< - 130						
12005	< - 130						

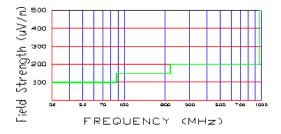


Figure 10. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- 2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- 3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- 4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- 5. The antenna is manipulated through typical positions, polarity and length during the tests.
- 6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- 7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 8. < 130 are below the analyzer floor level.

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RADIATED Measurements (Fundamental & Harmonics) (CONT.) (Base) (Whip Antenna)

B. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 45

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2440	- 25.3	31.8	V	Peak	473151	113.5	n/a
4880	- 106.8	39.5	V	Peak	96.6051	39.7	- 14.3
7320	- 119.0	47.0	V	Peak	56.2341	35.0	- 19.0
9760	< - 130						
12200	< - 130						

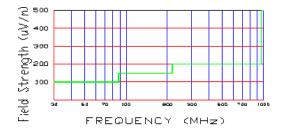


Figure 11. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- 2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- 3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- 4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- 5. The antenna is manipulated through typical positions, polarity and length during the tests.
- 6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- 7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 8. < 130 are below the analyzer floor level.

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RADIATED Measurements (Fundamental & Harmonics) (CONT.) (Base) (Whip Antenna)

C. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 89

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2479	- 25.6	31.9	V	Peak	462381	113.3	n/a
4958	- 107.0	39.7	V	Peak	96.6051	39.7	- 14.3
7320	- 119.9	47.2	V	Peak	51.88	34.3	- 19.7
9760	< - 130						
12395	< - 130						

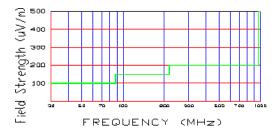


Figure 12. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- 2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- 3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- 4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- 5. The antenna is manipulated through typical positions, polarity and length during the tests.
- 6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- 7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 8. < 130 are below the analyzer floor level.

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RADIATED Measurements (Fundamental & Harmonics) (Base) (Special AFCL)

A. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 45

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2401	- 21.0	31.7	V	Peak	767361	117.7	n/a
4802	- 103.0	39.4	V	Peak	147.741	43.4	- 10.61
7203	- 116.2	46.4	V	Peak	72.6106	37.2	- 18.80
9604	< - 130						
12005	< - 130						

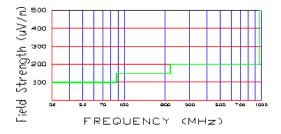


Figure 10. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- 2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- 3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- 4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- 5. The antenna is manipulated through typical positions, polarity and length during the tests.
- 6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- 7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 8. < 130 are below the analyzer floor level.

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RADIATED Measurements (Fundamental & Harmonics) (CONT.) (Base) (Special AFCL)

B. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 45

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2440	- 2237	31.8	V	Peak	638263	116.1	n/a
4880	- 1040	39.5	V	Peak	133.352	42.5	- 11.5
7320	- 116.0	47.0	V	Peak	79.4328	38.0	- 16.0
9760	< - 130						
12200	< - 130						

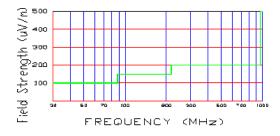


Figure 11. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- 2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- 3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- 4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- 5. The antenna is manipulated through typical positions, polarity and length during the tests.
- 6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- 7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 8. < 130 are below the analyzer floor level.

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RADIATED Measurements (Fundamental & Harmonics) (CONT.) (Base) (Special AFCL)

C. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 89

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2479	- 23.1	31.9	V	Peak	616595	115.8	n/a
4958	- 104.5	39.7	V	Peak	128.825	42.2	- 11.8
7320	- 116.7	47.2	V	Peak	74.9894	37.5	- 16.5
9760	< - 130						
12395	< - 130						

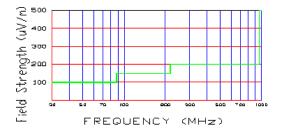


Figure 12. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- 2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- 3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- 4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- 5. The antenna is manipulated through typical positions, polarity and length during the tests.
- 6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- 7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 8. < 130 are below the analyzer floor level.

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RADIATED Measurements (Restricted Band) (Uniden Base)

Transmitter Portion

Operating Frequency: 2489 MHz

Distance of Measurements: 3 meters

Channel(s): 89

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2483.7	- 98.5	31.7	V	Peak	102.329	40.2	- 13.8
2484.8	- 99.0	31.7	V	Peak	96.6051	39.7	- 14.3
2484.9	- 100.0	31.8	V	Peak	87.0964	38.8	- 14.3
2485.1	- 103.0	31.8	V	Peak	61.6595	35.8	- 18.2
2491.5	- 99.9	31.9	V	Peak	89.1251	39.0	- 15.0
2492.0	- 99.0	32.0	V	Peak	100	40.0	- 14.0

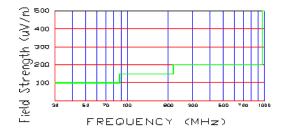


Figure 12. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- 2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- 3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10
- 4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- 5. The antenna is manipulated through typical positions, polarity and length during the tests.
- 6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- 7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 8. < 130 are below the analyzer floor level.

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RADIATED Measurements (Restricted Band) (Uniden HS)

Transmitter Portion

Operating Frequency: 2489 MHz
Distance of Measurements: 3 meters

Channel(s): 89

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	F/S (dBμV/m)	Margin (dB)
2483.6	- 99.0	31.7	V	Peak	96.5061	39.7	- 14.3
2484.9	- 99.5	31.7	V	Peak	91.2011	39.2	- 14.8
2484.9	- 101.0	31.8	V	Peak	77.6247	37.8	- 14.8
2485.1	- 104.2	31.8	V	Peak	53.7032	34.6	- 19.4
2491.9	- 100.0	31.9	V	Peak	88.1049	38.9	- 15.1
2492.0	- 99.4	32.0	V	Peak	95.4993	39.6	- 14.4

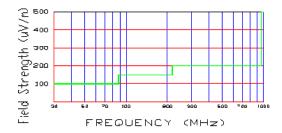


Figure 12. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
- 2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
- 3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- 4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
- 5. The antenna is manipulated through typical positions, polarity and length during the tests.
- 6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
- 7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
- 8. < 130 are below the analyzer floor level.

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RADIATED Measurements (Spurious)

Transmitter Portion

Distance of Measurements: 3 meters

Channels: 45

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	Height (m)	Azimuth (° angle)	F/S (μV/m)	Margin*** (dB)
69.2	- 82.68	6.19	V	3.1	60	33.55	- 9.5
131.0	- 84.48	12.28	Н	2.2	190	55.00	- 8.7
196.6	- 91.03	16.33	Н	1.7	210	41.26	- 11.2
262.16	- 90.03	19.24	V	1.4	160	64.62	- 9.8
327.7	- 92.59	21.60	Н	1.2	170	63.15	- 10.0
524.3	- 78.79	26.60	Н	1.1	180	549.59	- 8.8

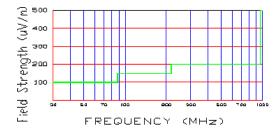


Figure 13. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

- 1.All emissions were investigated and the worst case emissions are reported
- 2. For hand-held devices, the EUT is rotated through three orthogonal axis to determine which configuration produces the maximum emissions
- 3. The EUT is supplied with the minimal AC voltage or/and a new/fully recharged battery.
- 4. The EUT was tested up to the 10th harmonic (9.3 GHz) and no significant emission was found.

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TEST EQUIPMENT

Туре	Model Cal	. Due Date	S/N
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	12/05/02	3638A08713
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	04/17/03	2542A11898
Spectrum Analyzer/Tracking Gen.	HP 8591A (9kHz-1.8GHz)	06/02/03	3144A02458
Spectrum Analyzer	HP 8591A (9kHz-1.8GHz)	10/15/02	3108A02053
Spectrum Analyzer	HP 8594A (9kHz-2.9GHz)	11/02/02	3051A00187
Signal Generator*	HP 8640B (500Hz-1GHz)	06/02/03	2232A19558
Signal Generator*	HP 8640B (500Hz-1GHz)	06/02/03	1851A09816
Signal Generator*	Rohde & Schwarz (0.1-1000MHz)	09/11/03	894215/012
Ailtech/Eaton Receiver	NM 37/57A-SL (30-1000MHz)	04/12/03	0792-03271
Ailtech/Eaton Receiver	NM 37/57A (30-1000MHz)	03/11/03	0805-03334
Ailtech/Eaton Receiver	NM 17/27A (0.1-32MHz)	09/17/03	0608-03241
Quasi-Peak Adapter	HP 85650A	08/09/03	2043A00301
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	03/11/03	0194-04082
RG58 Coax Test Cable	No. 167	03/11/03	n/a
Harmonic/Flicker Test System	HP 6841A (IEC 555-2/3)		3531A00115
Broadband Amplifier (2)	HP 8447D		1145A00470, 1937A0334
Broadband Amplifier Broadband Amplifier	HP 8447F		2443A03784
Transient Limiter			2820A00300
Horn Antenna	HP 11947A (9kHz-200MHz)		9704-5182
	EMCO Model 3115 (1-18GHz)		
Horn Antenna	EMCO Model 3115 (1-18GHz)		9205-3874
Horn Antenna	EMCO Model 3116 (18-40GHz)	non 0.4.455 1/Conombion	9203-2178
Biconical Antenna (4)	Eaton 94455/Eaton 94455-1/Sing	jer 94455-1/Compliand	0
Log-Spiral Antenna (3)	Ailtech/Eaton 93490-1		0608, 1103, 1104
Roberts Dipoles	Compliance Design (1 set) A100		5118
Ailtech Dipoles	DM-105A (1 set)		33448-111
EMCO LISN (2)	3816/2		1077, 1079
EMCO LISN	3725/2		2009
Microwave Preamplifier 40dB Gain	HP 83017A (0.5-26.5GHz)		3123A00181
Microwave Cables	MicroCoax (1.0-26.5GHz)		
Ailtech/Eaton Receiver	NM37/57A-SL		0792-03271
Spectrum Analyzer	HP 8591A		<i>3034A01395</i>
Modulation Analyzer	HP 8901A		2432A03467
NTSC Pattern Generator	Leader 408		0377433
Noise Figure Meter	HP 8970B		3106A02189
Noise Figure Meter	Ailtech 7510		TE31700
Noise Generator	Ailtech 7010		1473
Microwave Survey Meter	Holaday Model 1501 (2.450GHz)		80931
Digital Thermometer	Extech Instruments 421305		426966
Attenuator	HP 8495A (O-70dB) DC-4GHz		
Bi-Directional Coax Coupler	Narda 3020A (50-1000MHz)		
Shielded Screen Room	RF Lindgren Model 26-2/2-0		6710 (PCT270)
Shielded Semi-Anechoic Chamber	Ray Proof Model S81		R2437 (PCT278)
Environmental Chamber	Associated Systems Model 1025 (Te	emperature/Humidity)	PCT285

^{*} Calibration traceable to the National Institute of Standards and Technology (NIST).

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Conclusion

The data collected shows that the **Uniden 2.4 GHz FHSS Cordless Phone FCC ID: AWMUP300** complies with Part 15C of the FCC Rules.

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