July 2, 2001

Federal Communications Commission Equipment Authorization Branch 7435 Oakland Mills Road Columbia, MD 21046

Dear Sir/Madam:

Enclosed you will find an application for Certification of a PocketWizard Max Intentional Radiator, FCC ID: KDS-PW2-001. Certification is requested to the requirements of Part 15, Subpart C of the Commission's rules. This application is being filed by Retlif Testing Laboratories on behalf of LPA Design.

I trust that you will find the enclosed application to be complete; however, should you have any questions or require any additional information, please feel free to contact us.

Very truly yours,

RETLIF TESTING LABORATORIES

Scott Wentworth Manager

Enc. (as stated)





BRAND NAME:	PocketWizard May	MODEL: N/A
DIGITID IMMIL.	1 CORCL 11 12atu 191aA	Test Report No. R-3378N FCC ID: KDS-PW2-001









Applicant: LPA Design

Device: Transceiver

FCC ID: KDS-PW2-001

REPORT OF MEASUREMENTS (continued)

## TEST RESULTS

15.231 (a) -	The device is a transceiver for remote control	l of photographic strobes.
		Test Report No. R-3378N FCC ID: KDS-PW2-001



15.231 (2) seconds after deactivation.



predetermined intervals.

15.231 (a)(4)-	The device is not employed for RC purposes	involving security.
		Test Report No. R-3378N FCC ID: KDS-PW2-001







emissions and for limiting peak emissions were met.



 $732\mu V/M$  or  $741\mu V/M$  .





emissions did not exceed 0.25% of the operating frequency. Test Report No. R-3378N FCC ID: KDS-PW2-001

REPORT OF MEASUREMENTS (continued)

<u>DETERMINATION OF FIELD STRENGTH LIMITS</u> Test Report No. R-3378N FCC ID: KDS-PW2-001



Frequency Tested: 346.5MHz

Frequency

Limit

F1 = 260 3750 = L1

Test Report No. R-3378N FCC ID: KDS-PW2-001

Fo = 346.5

Lo

F2 = 470 12500 = L2

Test Report No. R-3378N FCC ID: KDS-PW2-001



Limit = L1 + [(Fo-F1)(L2-L1)/(F2-F1)]

Solving yields: Test Report No. R-3378N FCC ID: KDS-PW2-001

Fundamental Limit =  $7,328 \mu V/M$  (AVERAGE) @ 3 Meters

Harmonic Limit =  $732 \mu V/M$  (AVERAGE) @ 3 Meters

Frequency Tested: 349.0MHz

Frequency

Limit

F1 = 260 3750 = L1

Test Report No. R-3378N FCC ID: KDS-PW2-001

Fo = 349.0

Lo

F2 = 470 12500 = L2

Test Report No. R-3378N FCC ID: KDS-PW2-001



Limit = L1 + [(Fo-F1)(L2-L1)/(F2-F1)]

Solving yields: Test Report No. R-3378N FCC ID: KDS-PW2-001

Fundamental Limit =  $7,413 \mu V/M$  (AVERAGE) @ 3 Meters

Harmonic Limit =  $741 \mu V/M$  (AVERAGE) @ 3 Meters

REPORT OF MEASUREMENTS (continued)

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DETERMINATION OF DUTY CYCLE







Transmitter On Time = 0.450 milliseconds (maximum)

Transmitter Cycle Time = 5.350 milliseconds

Transmitter Duty Cycle = 0.0841

\*See Attached Duty Cycle Timing Diagram Test Report No. R-3378N FCC ID: KDS-PW2-001 SPECTRUM ANALYZER DESENSITIZATION CONSIDERATIONS Test Report No. R-3378N FCC ID: KDS-PW2-001





**GENERAL NOTES** 

1	All modines were taken willings a neak datastan function of	to toot distance of 2 maters
1.	All readings were taken utilizing a peak detector function at	i a test distance of 3 meters.
		Test Report No. R-3378N FCC ID: KDS-PW2-001

2.	The duty cycle was applied to the peak readings in order to d	letermine the average value
		Test Report No. R-3378N FCC ID: KDS-PW2-001

of the emissions.

3.	The frequency range for radiated emissions was scanned from 30 MHz to 3.6 GHz. The
	Test Report No. R-3378N FCC ID: KDS-PW2-001



EQUIPMENT LIST

Test Report No. R-3378N FCC ID: KDS-PW2-001

**Radiated Emissions** 

EN Type Manufacturer Frequency Range Model No. Cal Date Due Date

3116 Pre-Amplifier Miteq 0.1 GHz - 18 GHz AFS42-35 12/3/98 12/3/99

3118 Broadband Pre-Amplifier Electro-Metrics 10 KHz - 1 GHz BPA-1000 6/24/98 6/24/99

3258 Double Ridge Guide EMCO 1 - 18 GHz 3115 4/3/98 4/3/99

4029 Open Area Test Site Retlif 3/10 Meters RNH 6/15/98 6/15/99

4202 Biconilog EMCO 26 MHz - 2 GHz 3142 6/10/98 6/10/99

4895 Spectrum Analyzer Hewlett Packard 9kHz - 22GHz 8593EM 9/18/98 9/18/99

4896 Graphics Plotter Hewlett Packard N/A 7470A 8/23/98 8/23/99

EQUIPMENT LIST

**Conducted Emissions** 

EN Type Manufacturer Frequency Range Model No. Cal Date Due Date

3107 Spectrum Analyzer Advantest 10 KHz - 3 GHz 4131B 2/9/98 2/9/99

4027 LISN Solar Electronics 10 KHz - 30 MHz 9252-50-R-24BNC 6/24/98 6/24/99

4028 Isolation Transformer Acme N/A 120x240 1/24/98 1/24/99

4050 Transient Limiter Hewlett Packard 9 KHz - 200 MHz 11970K 12/9/98 12/9/99

4896 Graphics Plotter Hewlett Packard N/A 7470A 8/23/98 8/23/99