

Report Number: 04-0272

Rev: 101404

Customer: Internet Energy Systems

Issue Date: October 18, 2004

Model: C3I-W Wireless Transmitter

Radiated Emissions – Sub-Harmonics**(154 MHz Unit)**

Frequency (MHz)	Test Data (dBm) @3m	Ant. Factor + Cable Atten. - Amp Gain	Results (uV/m)	FCC Limits (uV/m) @3m	Margin Below FCC Limit (dB)
51.13	-73.8	11.4	170.0	20414.3	41.6
102.97	-69.0	38.0	343.3	20414.3	35.5

SAMPLE CALCULATIONS:RESULTS uV/m @ 3m = Antilog $((-73.8 + 11.4 + 107)/20)$ = 170.0

CONVERSION FROM dBm TO dBuV = 107 dB

Test Date: November 16, 2004**Tested by****Signature:** **Name:** David Blethen

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Figure A
154 MHz Sub-Harmonics

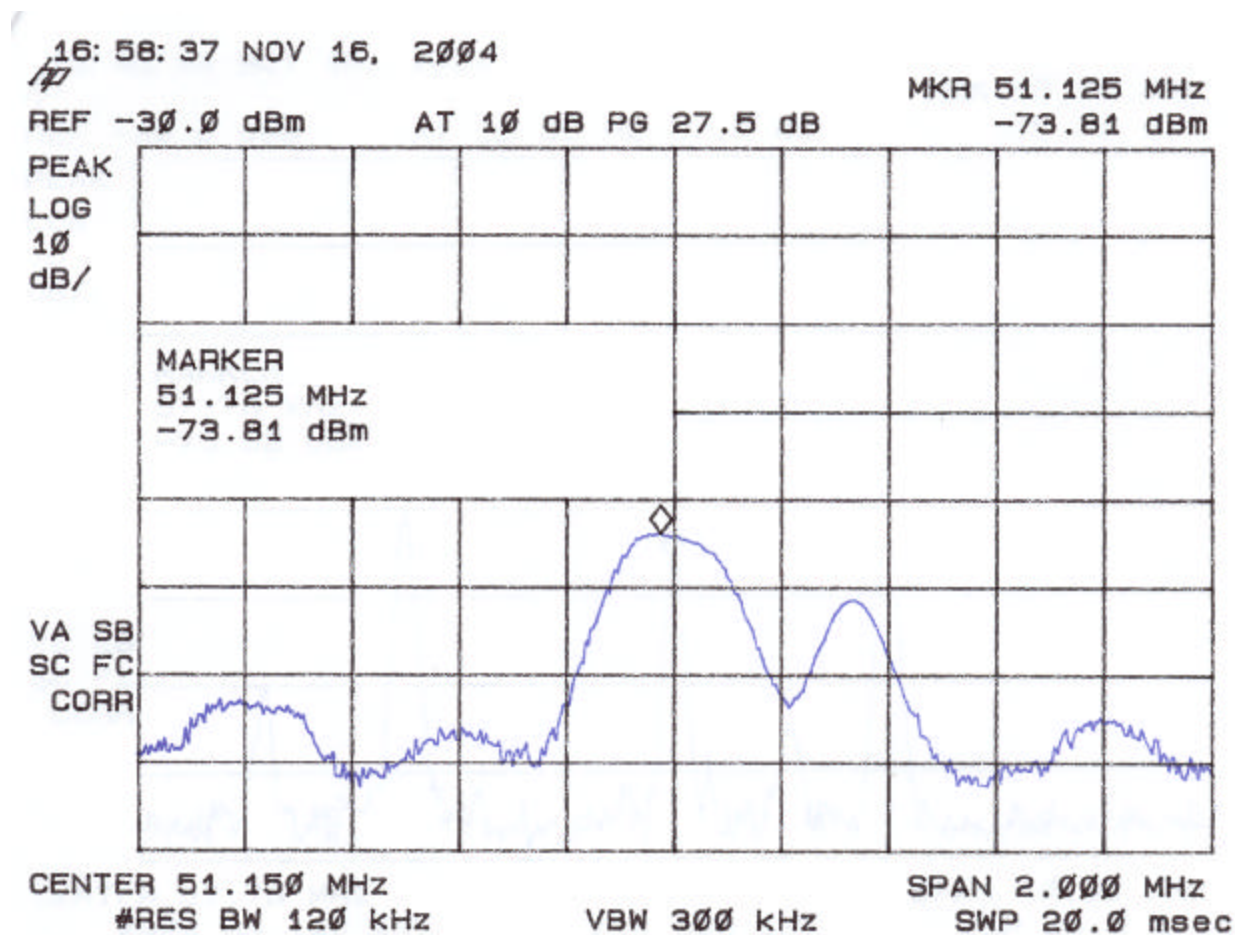
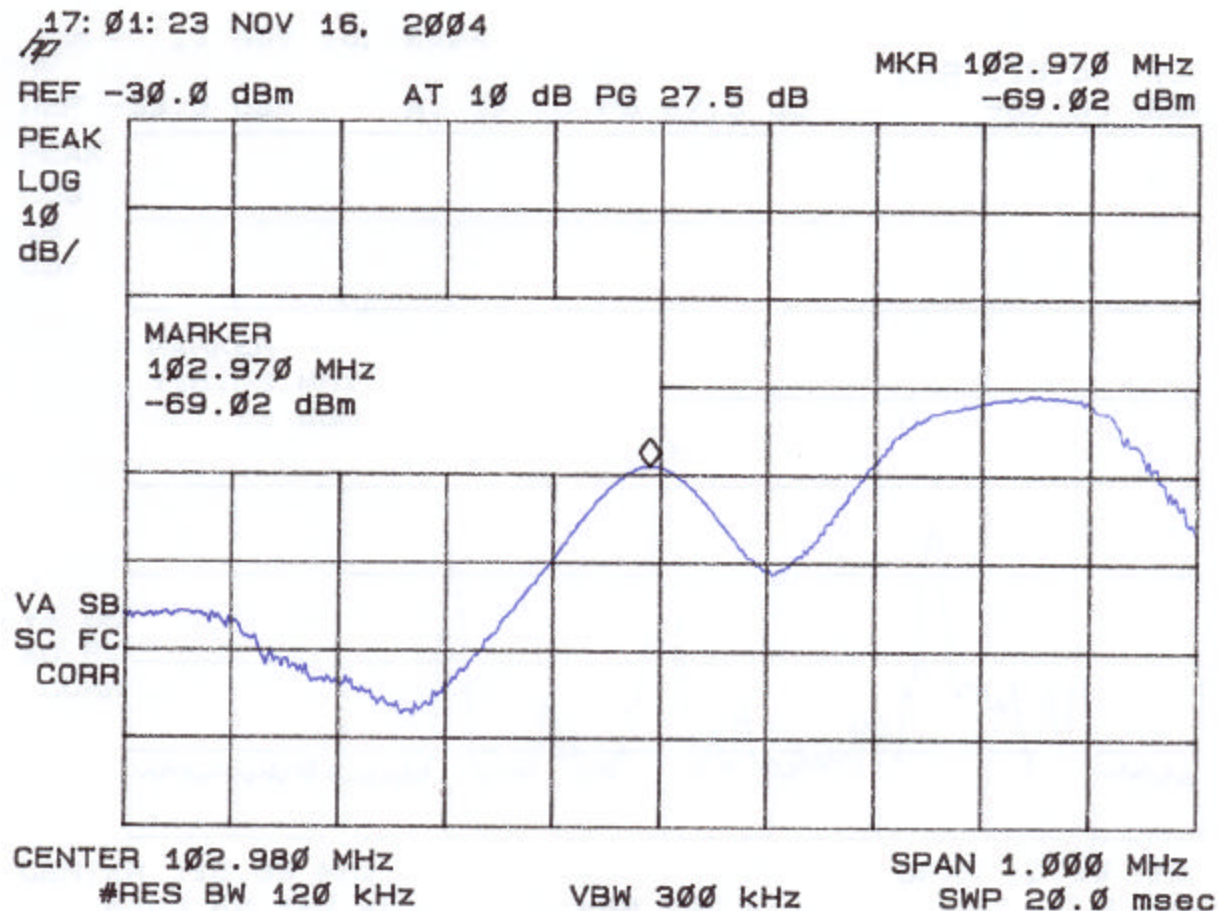


Figure B
154 MHz Sub-Harmonics



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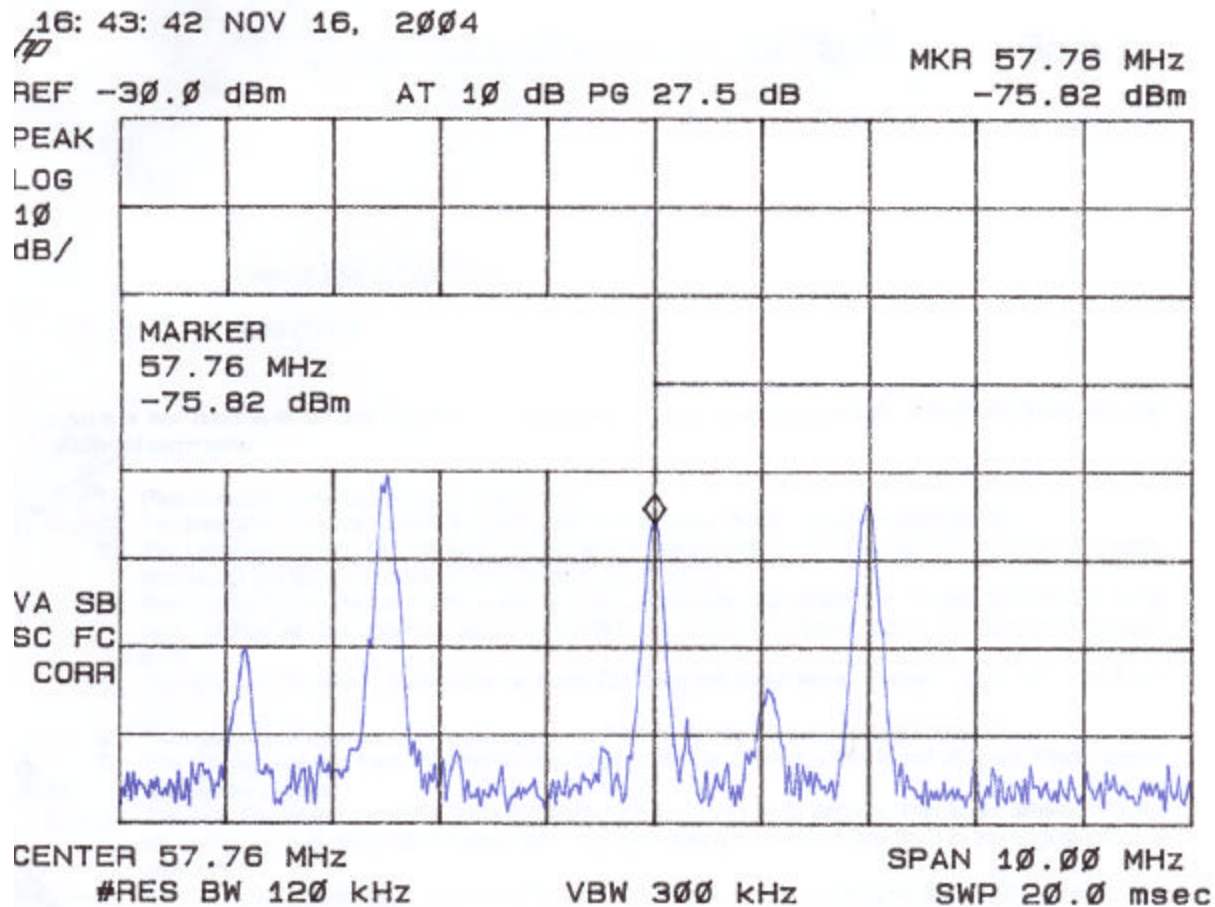
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Radiated Emissions – Sub-Harmonics**(173 MHz Unit)**

Frequency (MHz)	Test Data (dBm) @3m	Ant. Factor + Cable Atten. - Amp Gain	Results (uV/m)	FCC Limits (uV/m) @3m	Margin Below FCC Limit (dB)
57.76	-75.8	11.5	135.7	17101.6	42.0
115.53	-67.4	14.1	484.4	17101.6	31.0

SAMPLE CALCULATIONS:**RESULTS uV/m @ 3m = Antilog $((-75.8 + 11.5 + 107)/20)$ = 135.7****CONVERSION FROM dBm TO dBuV = 107 dB****Test Date: November 16, 2004****Tested by****Signature:** **Name: David Blethen**

Figure C
173 MHz Sub-Harmonics



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Figure D
173 MHz Sub-Harmonics

