



7 RADIATED SPURIOUS EMISSIONS

7.1 Test description

Parameter:	FCC §2.1053	
Requirement:	FCC § 24.236, § 24.238	
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7.2 Test Procedure

The transmitter was placed on a wooden turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3 orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated, with measurement equipment RBW setting at 1 MHz.

The spurious harmonic attenuation was calculated as the difference between E in dB(uV/m) at the fundamental frequency and at the spurious emission frequency.

Spurious attenuation in dB = 43 +10Log₁₀(Power in Watts)

7.3 Test Results

Please see the following pages for:

- [X] Spurious harmonic attenuation
- [X] FCC Part 15.109 Radiated Emission

7.4 Modifications made during testing

None

7.5 Test instrumentation

- [X] CDI B100/200/300 Biconical Antennas
- [X] EMCO Bi-logcon Antenna
- [X] EMCO 3115 Horn Antenna
- [X] HP 8566B Spectrum Analyzer
- [X] Preamplifiers

ITS Intertek Testing Services

Radiated Emissions Test Data

Compan Sierra y:	Model #:	Req. FCC 2.993
EUT:	S/N or FCC #:	Test Dist 3 meter
Project #:	Test Date: February 11, 2000	TP 0.10 Watt
Test Mode:	Engineer: Xi Ming Y.	Min Attn. 33.00 dBc

	Antenn	a Used		Pre-Amp	Used		Cable	Used		Transducer	Used
Number:	2	14	21	0	8	13	0	0	12	0	***********
Model:	EMCO	EMCO	3160-9	None C	DI_P1000	ACO/400	None	None	Gm M+L	None	
	3143	3115							_		

су	Reading		Ant	Amp	Ant. Pol.	Ant. Factor	Pre-Amp	Insert. Loss	Net	ERP	EIRP	Margi
MHz	dB(μV)	PIAIQ	#	#	H/V	dB(1/m)	dB	dB	dB(µV/m	Wm	mW	dΒ
1851.29	93.2	Peak	8	0	V	27.2	0.0	2.1	122.5	3.25E+02	533	
1851.29	90.8	Ave.	8	0	V	27.2	0.0	2.1	120.1	1.87E+02	307	
1880.00	93.3	Peak	8	0	V	27.2	0.0	2.1	122.6	3.33E+02	546	
1880.00	90.2	Ave.	8	0	V	27.2	0.0	2.1	119.5	1.63E+02	267	
1908.80	91.5	Peak	8	0	V	27.2	0.0	2.1	120.8	2.20E+02	361	
1908.80	908.80 89.0 Av	Ave.	8	0	V	27.2	0.0	2.1	118.3	1.24E+02	203	

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- Notes: a) O.C.F.:Other Correction Factor

 - a) Over-Administration Factor Pre-Amp + Insert Loss Cable A + Cable B + Cable C + Transducer.
 c) Net = Reading + Antenna Factor Pre-Amp + Insert Loss.
 d) Atm. = Field Strength (Fundamental) Field Strength (Harmonics).
 e) Negative signs (-) in Margin column signify levels below the limits.