



Nemko Dallas, Inc.

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Radiated Emissions

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Job No.: 1L0553R Date: 10/11/2001
Specification: CFR 47, Part 15.245 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 45
E.U.T.: MD5850 Multireader
Configuration: TYPICAL - TRANSMIT AT 5.8025 GHz
Sample Number: 1
Location: AC 3 RBW: 1 MHz
Detector Type: Peak VBW: 300 kHz

Test Equipment Used

Antenna: 1033 Directional Coupler: #N/A
Pre-Amp: 983 Cable #1: 1484
Filter: #N/A Cable #2: 1485
Receiver: 1036 Cable #3: 1046
Attenuator #1: #N/A Cable #4: 1043
Attenuator #2: #N/A Mixer: #N/A
Additional equipment used: 992 991 984 1464 988 989
Measurement
Uncertainty: +/- 1.7 dB

Frequency (GHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Pre-Amp Gain (dB)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Delta (dB)	Comment
5.8025	69.8	34.4	4.8	0	109.0	114	-5.0	Horizontal@3 meters
5.8025	70	34.4	4.8	0	109.2	114	-4.8	Vertical@3 meters
11.605	29.5	38.7	7.3	0	75.5	77	-1.5	Horizontal@20cm
11.605	27.2	38.7	7.3	0	73.2	77	-3.8	Vertical@20cm
17.4075	17	43	8.3	0	68.3	88	-19.3	Horizontal@20cm
17.4075	17	43	8.3	0	68.3	88	-19.3	Vertical@20cm
23.21	67.9	40.4	7	48.25	67.1	101	-34.0	Horizontal@20cm
23.21	67.9	40.4	7	48.25	67.1	101	-34.0	Vertical@20cm
29.0125	67.9	43.5	9	43.9	76.5	101	-24.5	Horizontal@20cm
29.0125	67.9	43.5	9	43.9	76.5	101	-24.5	Vertical@20cm
34.815	71.7	43.6	10	50.9	74.4	101	-26.6	Horizontal@20cm
34.815	71.7	43.6	10	50.9	74.4	101	-26.6	Vertical@20cm
40.6175	39.6	39.7	0	0	79.3	101	-21.7	Horizontal@20cm
40.6175	39.6	39.7	0	0	79.3	101	-21.7	Vertical@20cm
46.42	39	40.2	0	0	79.2	101	-21.8	Horizontal@20cm
46.42	39	40.2	0	0	79.2	101	-21.8	Vertical@20cm
52.2225	38	41	0	0	79.0	101	-22.0	Horizontal@20cm
52.2225	38	41	0	0	79.0	101	-22.0	Vertical@20cm
58.025	38	41.8	0	0	79.8	101	-21.2	Horizontal@20cm
58.025	38	41.8	0	0	79.8	101	-21.2	Vertical@20cm

Notes: Voltage was varied from 20.4 to 27.6 Vdc with no change in output power. All measurements were made at 24 Vdc (nominal)