

APPLICANT: DSI (HK) LTD.

FCC ID: KNZ-48452

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.209

REQUIREMENTS: 1.705 to 30 MHz: 49.54 dBuV/m @ 3 METERS
 30 to 88 MHz: 40.00 dBuV/M @ 3 METERS
 88 to 216 MHz: 43.52 dBuV/M
 216 to 960 MHz: 46.02 dBuV/M
 ABOVE 960 MHz: 54.00 dBuV/M
 * Harmonics must be less than the fundamental.

TEST RESULTS: A search was made of the spectrum from 25 to 1000 MHz and the measurements indicate that the unit DOES meet the FCC requirements.

TEST DATA:

EMISSION FREQUENCY MHz	METER READING AT 3 METERS dBuV	COAX LOSS dB	ANTENNA CORRECTION FACTOR	FIELD STRENGTH dBuV/m@3m	MARGIN dB	ANT. POL.
72.11	20.90	0.80	7.86	29.56	10.44	H
144.22	2.30	0.80	16.90	20.00	23.52	H
216.33	3.60	1.20	12.40	17.20	28.82	H
288.44	3.00	1.40	14.96	19.36	26.66	H
360.55	3.50	1.40	15.86	20.76	25.26	H
432.66	3.80	1.60	17.75	23.15	22.87	H
504.77	2.90	1.60	19.34	23.84	22.18	H
576.88	2.70	1.60	19.92	24.22	21.80	H
648.99	3.70	1.60	21.18	26.48	19.54	H
721.10	3.30	2.00	21.96	27.26	18.76	H

SAMPLE CALCULATION: $FSdBuV/m = MR(dBuV) + ACFdB$.

TEST PROCEDURE: ANSI STANDARD C63.4-1992 using a Hewlett Packard Model 8566B spectrum analyzer, a Hewlett Packard Model 85685A Preselector, a Hewlett Packard Model 85650A Quasi-Peak adapter, Electro-Metric Dipole kits, models TDA, TDS-25-1, TDS-25-2, and an Eaton Model 94455-1 Biconical Antenna. The bandwidth of spectrum analyzer was 100 kHz with an appropriate sweep speed. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported.

PERFORMED BY: S. S. SANDERS

DATE: March 29, 1999

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EMISSION FREQUENCY MHz	METER READING dBuV AT 3 METERS	COAX LOSS dB	ANTENNA CORRECTION FACTOR	FIELD STRENGTH dBuV/m@3m	MARGIN dB	ANT. POL.
72.92	26.30	0.80	8.28	35.38	4.62	H
145.84	2.80	0.80	16.90	20.50	23.02	H
218.76	3.80	1.20	12.47	17.47	28.55	H
291.68	3.60	1.40	15.17	20.17	25.85	H
364.60	4.10	1.40	15.97	21.47	24.55	H
437.52	3.70	1.60	17.86	23.16	22.86	H
510.44	4.10	1.60	19.38	25.08	20.94	H
583.66	2.60	1.60	19.97	24.17	21.85	H
656.28	3.00	2.00	21.34	26.34	19.68	H
729.20	2.30	2.00	21.73	26.03	19.99	H

SAMPLE CALCULATION: $FS_{dBuV/m} = MR_{(dBuV)} + ACF_{dB}$.

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