



## TEST REPORT

REGULATION :

FCC Part 1.1310

Applicant	Testing Laboratory
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<b>Equipment type</b>	UHF DIGITAL TRANSCEIVER
<b>Trademark</b>	KENWOOD
<b>Model(s)</b>	NX-840HU-K,NX-840H-K
<b>Serial No.</b>	2
<b>FCC ID</b>	K44452700
<b>Test Result</b>	Complied
<b>Report Number</b>	13120343JKA-001
<b>Report issue date</b>	January 24, 2014

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Approved by

Hideaki Kosemura

[Assistant Manager]

Tested by

Koichi Wagatsuma

[Engineer]

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## SECTION 1. INFORMATION

### APPLICANT

Company	JVC KENWOOD Corporation
Address	1-16-2, Hakusan, Midori-ku, Yokohama-shi Kanagawa, 226-8525 Japan
Contact Person	Tamaki Shimamura Manager, Communications Equipment Division

### MANUFACTURER

Company	JVC KENWOOD Corporation
Address	1-16-2, Hakusan, Midori-ku, Yokohama-shi Kanagawa, 226-8525 Japan

### EQUIPMENT UNDER TEST

Model No.	NX-840HU-K,NX-840H-K	
Serial No.	2	
Frequency range	450 to 512 MHz	
Maximum Power Rating	45	W
Duty cycle	50	%
Collector Current, A	15.0	amps (Maximum)
Collector Voltage, Vdc	13.6	Vdc
Supply Voltage, Vdc	13.6	Vdc

### TEST DATE OF ISSUE AND TEST ENGINEER

Date of Issue	January 15, 2014
Test Engineer	Koichi Wagatsuma
Test Location	Kashima Immunity Test Room

### Revision Summary

Revised Date	Section	Description of Changes

## SECTION 2. TEST DATA

The EUT was placed inside an semi anechoic chamber at height of 0.8 m to simulate being mounted on a vehicle. The isotropic probe was placed a distance of 0.4 m from the EUT and power density was measured at 0.2 m increments from 0.2 m to 2.0 m with the peak value from each location being recorded in the corresponding data tables.

The general population limit was applied to all measurements.

The EUT is a PTT radio for mobile application with a peak power of 45 W. By allowing for an operational 50 % factor the power was reduced to 22.5 W for testing purposes yet transmitted continuously during the test. A 0 dBd antenna was utilized for testing.

### Measurement Result

450.05 MHz

Probe Height (m)	Peak Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
0.2	0.025	0.30	Pass
0.4	0.034	0.30	Pass
0.6	0.099	0.30	Pass
0.8	0.171	0.30	Pass
1.0	0.080	0.30	Pass
1.2	0.119	0.30	Pass
1.4	0.166	0.30	Pass
1.6	0.134	0.30	Pass
1.8	0.069	0.30	Pass
2.0	0.039	0.30	Pass

481.05 MHz

Probe Height (m)	Peak Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
0.2	0.016	0.32	Pass
0.4	0.032	0.32	Pass
0.6	0.070	0.32	Pass
0.8	0.145	0.32	Pass
1.0	0.075	0.32	Pass
1.2	0.105	0.32	Pass
1.4	0.135	0.32	Pass
1.6	0.110	0.32	Pass
1.8	0.063	0.32	Pass
2.0	0.035	0.32	Pass

511.95 MHz

Probe Height (m)	Peak Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
0.2	0.011	0.34	Pass
0.4	0.012	0.34	Pass
0.6	0.032	0.34	Pass
0.8	0.118	0.34	Pass
1.0	0.088	0.34	Pass
1.2	0.091	0.34	Pass
1.4	0.153	0.34	Pass
1.6	0.135	0.34	Pass
1.8	0.063	0.34	Pass
2.0	0.031	0.34	Pass

### SECTION 3. LIST OF MEASURING INSTRUMENTS

Instrument	Model No.	Serial No.	Manufacturer	Cal Date	Cal Due Date
Power Supply	GZV4000	90290931	Daiichi denpa kogyo	N/A	N/A
Digital Multi Meter	8846A	9642018	FLUKE	2013/5/31	2014/5/31
Fleid Probe	HI 6005	130665	ETS Lindgren	2013/1/15	2014/1/31