TEST REPORT

REGULATION : **FCC Part 1.1310 , RSS-102 Issue5 2015**
(General Population/Uncontrolled Exposure)

Applicant	Testing Laboratory
JVC KENWOOD Corporation 1-16-2, Hakusan, Midori-ku, Yokohama-shi Kanagawa, 226-8525 Japan Tel.: +81 45 939 6254 Fax.: +81 45 939 6261	Intertek Japan K.K. Kashima Laboratory (Anechoic chamber) 298-6 Sada, Kashima, Ibaraki 314-0027 Japan Tel. +81 299 82 8464 (Open area test site) 3-2 Sunayama, Kamisu, Ibaraki 314-0255 Japan Tel. +81 479 40 1097 URL: http://www.japan.intertek-etlsemko.com

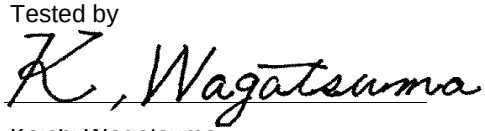
Equipment type	700/800MHz DIGITAL TRANSCEIVER
Trademark	KENWOOD
FCC Model(s)	NX-5900-K, NX5900-F
IC Model(s)	NX-5900-K
Serial No.	90-No.1
FCC ID	K44478500
IC CN and UPN	282F-478500
Test Result	Complied
Report Number	15060364JKA-001
Report issue date	July 31, 2015

Approved by

Hideaki Kosemura

[Technical Manager]

Tested by



Koichi Wagatsuma

[Engineer]

TABLE OF CONTENTS

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

MANUFACTURER

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

EQUIPMENT UNDER TEST

FCC Model(s)	NX-5900-K, NX5900-F		
IC Model(s)	NX-5900-K		
Serial No.	90-No.1		
Frequency range	FCC: 769 to 775 MHz, 799 to 805 MHz, 806 to 824 MHz and 851 to 869 MHz IC: 768 to 776 MHz, 798 to 806 MHz, 806 to 824 MHz and 851 to 869 MHz		
FCC ID	K44478500		
IC CN and UPN	282F-478500		
Maximum Power Rating	30	W	: 768 to 776 MHz and 798 to 806 MHz
	35	W	: 806 to 824 MHz and 851 to 869 MHz
Duty cycle	50	%	
Collector Current, A	13.0	amps (Maximum)	
Collector Voltage, Vdc	13.6	Vdc	
Supply Voltage, Vdc	13.6	Vdc	

TEST DATE OF ISSUE AND TEST ENGINEER

Date of Issue	July 01, 2015			
temperature	26.3	to	27	[degree C]
Humidity Variation	49	to	58	[%]
Atmospheric Pressure	98.8	to	98.9	[kPa]
Test Engineer	Koichi Wagatsuma			
Test Location	Kashima Immunity Test Room			
Regulations	FCC Part 1.1310 , RSS-102 Issue5 2015			
Test method/Guide	KDB 447498 D01 General RF Exposure Guidance v05r02			
Test Procedure	RJP-TE103			

Revision Summary

Revised Date	Section	Description of Changes

SECTION 2. TEST DATA

The TX antenna place was inside a semi anechoic chamber at height of 0.8 m from the Ground reference plane to simulate being mounted on a vehicle.

The isotropic probe position was a distance of 0.4 m from the TX antenna and the power density was measured from 0.1 m to 2.0 m (at 0.1 m increments) with the peak value.

The EUT is a PTT radio for mobile application with a peak output power of 30 W and 35 W.
The 1/4 wave antenna (0 dBd gain) was utilized for testing.
(Model No : QWFT120 / Manufacturer : Laird Technologies)

Measurement Result

TX frequency (MHz)	Output Power W	Measurement distance (m)	Power Density (mW/cm^2)	Limit (mW/cm^2)		Result
				RSS	FCC	
769.05	30	0.4	0.019	0.246	0.513	PASS
774.95	30	0.4	0.022	0.247	0.517	PASS
799.05	30	0.4	0.067	0.252	0.533	PASS
804.95	30	0.4	0.120	0.253	0.537	PASS
806.05	35	0.4	0.143	0.254	0.537	PASS
815.05	35	0.4	0.149	0.256	0.543	PASS
823.95	35	0.4	0.225	0.258	0.549	PASS
851.05	35	0.4	0.206	0.263	0.567	PASS
860.05	35	0.4	0.149	0.265	0.573	PASS
868.95	35	0.4	0.074	0.267	0.579	PASS

Power Density = 20 measurements data (0.1m - 2.0m) has been averaged.
Limit : General Population/Uncontrolled Exposure

Measurement data

769.05 MHz

Probe Height (m)	Reading Power Density (mW/cm^2)	Probe Foctor	Power Density (mW/cm^2)
0.1	0.009	1.19	0.005
0.2	0.005	1.19	0.003
0.3	0.008	1.19	0.005
0.4	0.005	1.19	0.003
0.5	0.016	1.19	0.010
0.6	0.015	1.19	0.009
0.7	0.047	1.19	0.028
0.8	0.088	1.19	0.053
0.9	0.049	1.19	0.029
1.0	0.037	1.19	0.022
1.1	0.060	1.19	0.036
1.2	0.040	1.19	0.024
1.3	0.014	1.19	0.008
1.4	0.024	1.19	0.014
1.5	0.041	1.19	0.025
1.6	0.048	1.19	0.029
1.7	0.043	1.19	0.026
1.8	0.034	1.19	0.020
1.9	0.025	1.19	0.015
2.0	0.018	1.19	0.011

Power Density = Reading Power Density x Probe Foctor x Duty cycle (50%)

774.95 MHz

Probe Height (m)	Reading Power Density (mW/cm^2)	Probe Foctor	Power Density (mW/cm^2)
0.1	0.017	1.19	0.010
0.2	0.006	1.19	0.004
0.3	0.016	1.19	0.009
0.4	0.006	1.19	0.003
0.5	0.025	1.19	0.015
0.6	0.016	1.19	0.010
0.7	0.059	1.19	0.035
0.8	0.087	1.19	0.052
0.9	0.049	1.19	0.029
1.0	0.037	1.19	0.022
1.1	0.063	1.19	0.038
1.2	0.036	1.19	0.021
1.3	0.019	1.19	0.011
1.4	0.040	1.19	0.024
1.5	0.058	1.19	0.035
1.6	0.063	1.19	0.037
1.7	0.053	1.19	0.031
1.8	0.039	1.19	0.023
1.9	0.028	1.19	0.016
2.0	0.021	1.19	0.012

Power Density = Reading Power Density x Probe Foctor x Duty cycle (50%)

799.05 MHz

Probe Height (m)	Reading Power Density (mW/cm^2)	Probe Foctor	Power Density (mW/cm^2)
0.1	0.044	1.17	0.026
0.2	0.011	1.17	0.006
0.3	0.031	1.17	0.018
0.4	0.008	1.17	0.004
0.5	0.035	1.17	0.020
0.6	0.031	1.17	0.018
0.7	0.093	1.17	0.054
0.8	0.178	1.17	0.104
0.9	0.202	1.17	0.118
1.0	0.031	1.17	0.018
1.1	0.166	1.17	0.097
1.2	0.157	1.17	0.092
1.3	0.116	1.17	0.068
1.4	0.116	1.17	0.068
1.5	0.174	1.17	0.101
1.6	0.239	1.17	0.139
1.7	0.223	1.17	0.131
1.8	0.170	1.17	0.099
1.9	0.130	1.17	0.076
2.0	0.137	1.17	0.080

Power Density = Reading Power Density x Probe Foctor x Duty cycle (50%)

804.95 MHz

Probe Height (m)	Reading Power Density (mW/cm^2)	Probe Foctor	Power Density (mW/cm^2)
0.1	0.075	1.17	0.044
0.2	0.014	1.17	0.008
0.3	0.051	1.17	0.030
0.4	0.011	1.17	0.006
0.5	0.047	1.17	0.028
0.6	0.050	1.17	0.029
0.7	0.106	1.17	0.062
0.8	0.234	1.17	0.137
0.9	0.289	1.17	0.169
1.0	0.083	1.17	0.049
1.1	0.304	1.17	0.178
1.2	0.299	1.17	0.175
1.3	0.235	1.17	0.138
1.4	0.217	1.17	0.127
1.5	0.358	1.17	0.210
1.6	0.479	1.17	0.281
1.7	0.452	1.17	0.265
1.8	0.354	1.17	0.207
1.9	0.259	1.17	0.152
2.0	0.189	1.17	0.111

Power Density = Reading Power Density x Probe Foctor x Duty cycle (50%)

806.05 MHz

Probe Height (m)	Reading Power Density (mW/cm^2)	Probe Foctor	Power Density (mW/cm^2)
0.1	0.083	1.17	0.049
0.2	0.015	1.17	0.009
0.3	0.056	1.17	0.033
0.4	0.014	1.17	0.008
0.5	0.052	1.17	0.030
0.6	0.059	1.17	0.035
0.7	0.112	1.17	0.066
0.8	0.292	1.17	0.171
0.9	0.347	1.17	0.204
1.0	0.103	1.17	0.060
1.1	0.370	1.17	0.217
1.2	0.368	1.17	0.216
1.3	0.274	1.17	0.161
1.4	0.250	1.17	0.146
1.5	0.413	1.17	0.242
1.6	0.574	1.17	0.336
1.7	0.538	1.17	0.315
1.8	0.424	1.17	0.248
1.9	0.315	1.17	0.184
2.0	0.232	1.17	0.136

Power Density = Reading Power Density x Probe Foctor x Duty cycle (50%)

815.05 MHz

Probe Height (m)	Reading Power Density (mW/cm^2)	Probe Foctor	Power Density (mW/cm^2)
0.1	0.055	1.18	0.033
0.2	0.004	1.18	0.002
0.3	0.030	1.18	0.018
0.4	0.010	1.18	0.006
0.5	0.018	1.18	0.010
0.6	0.046	1.18	0.027
0.7	0.039	1.18	0.023
0.8	0.272	1.18	0.160
0.9	0.368	1.18	0.217
1.0	0.164	1.18	0.097
1.1	0.382	1.18	0.225
1.2	0.406	1.18	0.239
1.3	0.286	1.18	0.169
1.4	0.287	1.18	0.169
1.5	0.516	1.18	0.304
1.6	0.641	1.18	0.378
1.7	0.567	1.18	0.334
1.8	0.403	1.18	0.237
1.9	0.311	1.18	0.183
2.0	0.242	1.18	0.143

Power Density = Reading Power Density x Probe Foctor x Duty cycle (50%)

823.95 MHz

Probe Height (m)	Reading Power Density (mW/cm^2)	Probe Foctor	Power Density (mW/cm^2)
0.1	0.031	1.18	0.018
0.2	0.004	1.18	0.002
0.3	0.017	1.18	0.010
0.4	0.010	1.18	0.006
0.5	0.011	1.18	0.007
0.6	0.032	1.18	0.019
0.7	0.017	1.18	0.010
0.8	0.282	1.18	0.167
0.9	0.536	1.18	0.317
1.0	0.283	1.18	0.168
1.1	0.561	1.18	0.332
1.2	0.679	1.18	0.402
1.3	0.474	1.18	0.280
1.4	0.409	1.18	0.242
1.5	0.715	1.18	0.423
1.6	0.965	1.18	0.572
1.7	0.936	1.18	0.555
1.8	0.723	1.18	0.428
1.9	0.516	1.18	0.306
2.0	0.382	1.18	0.226

Power Density = Reading Power Density x Probe Foctor x Duty cycle (50%)

851.05 MHz

Probe Height (m)	Reading Power Density (mW/cm^2)	Probe Foctor	Power Density (mW/cm^2)
0.1	0.004	1.20	0.002
0.2	0.001	1.20	0.000
0.3	0.002	1.20	0.001
0.4	0.001	1.20	0.001
0.5	0.002	1.20	0.001
0.6	0.005	1.20	0.003
0.7	0.012	1.20	0.007
0.8	0.114	1.20	0.069
0.9	0.654	1.20	0.393
1.0	0.549	1.20	0.330
1.1	0.619	1.20	0.372
1.2	0.719	1.20	0.433
1.3	0.557	1.20	0.335
1.4	0.407	1.20	0.245
1.5	0.568	1.20	0.342
1.6	0.754	1.20	0.453
1.7	0.694	1.20	0.418
1.8	0.545	1.20	0.328
1.9	0.393	1.20	0.236
2.0	0.249	1.20	0.150

Power Density = Reading Power Density x Probe Foctor x Duty cycle (50%)

860.05 MHz

Probe Height (m)	Reading Power Density (mW/cm^2)	Probe Foctor	Power Density (mW/cm^2)
0.1	0.001	1.21	0.001
0.2	0.001	1.21	0.000
0.3	0.001	1.21	0.000
0.4	0.001	1.21	0.001
0.5	0.002	1.21	0.001
0.6	0.006	1.21	0.004
0.7	0.007	1.21	0.004
0.8	0.077	1.21	0.047
0.9	0.507	1.21	0.306
1.0	0.480	1.21	0.290
1.1	0.493	1.21	0.298
1.2	0.535	1.21	0.323
1.3	0.429	1.21	0.259
1.4	0.298	1.21	0.180
1.5	0.398	1.21	0.240
1.6	0.499	1.21	0.302
1.7	0.463	1.21	0.280
1.8	0.320	1.21	0.194
1.9	0.234	1.21	0.141
2.0	0.162	1.21	0.098

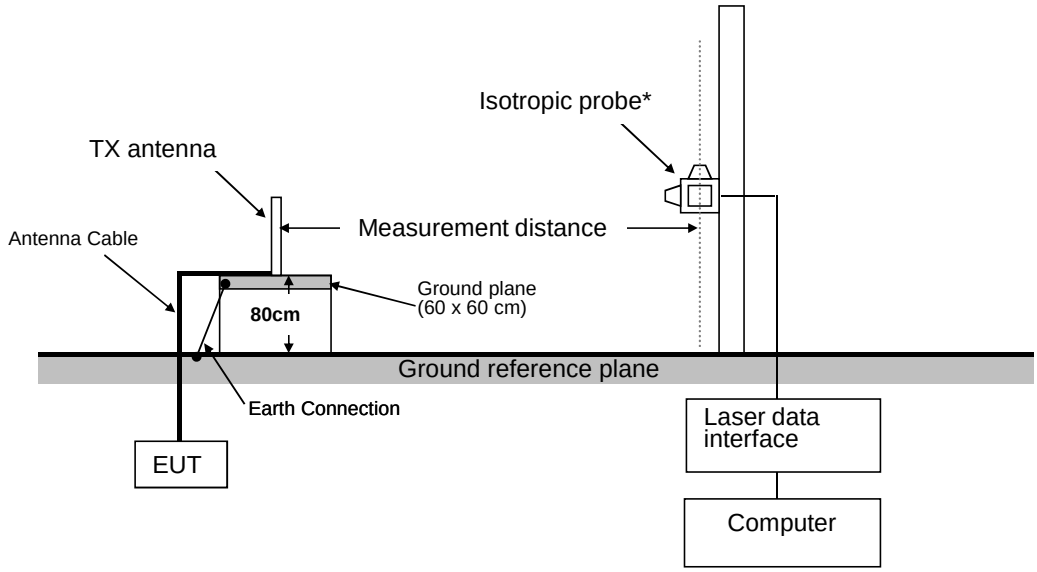
Power Density = Reading Power Density x Probe Foctor x Duty cycle (50%)

868.95 MHz

Probe Height (m)	Reading Power Density (mW/cm^2)	Probe Foctor	Power Density (mW/cm^2)
0.1	0.001	1.22	0.001
0.2	0.001	1.22	0.000
0.3	0.001	1.22	0.000
0.4	0.001	1.22	0.001
0.5	0.002	1.22	0.001
0.6	0.004	1.22	0.003
0.7	0.003	1.22	0.002
0.8	0.044	1.22	0.027
0.9	0.287	1.22	0.175
1.0	0.279	1.22	0.169
1.1	0.281	1.22	0.171
1.2	0.288	1.22	0.175
1.3	0.216	1.22	0.131
1.4	0.141	1.22	0.086
1.5	0.194	1.22	0.118
1.6	0.229	1.22	0.139
1.7	0.188	1.22	0.114
1.8	0.134	1.22	0.082
1.9	0.084	1.22	0.051
2.0	0.056	1.22	0.034

Power Density = Reading Power Density x Probe Foctor x Duty cycle (50%)

SECTION 3. TEST CONFIGURATION



* : The Isotropic probe position was Vertical orientation from the Ground reference plane from 0.1m to 2m (10cm increments) .

Setup Photos

SECTION 4. MEASUREMENT UNCERTAINTY

30 MHz – 1000 MHz	17.7 % (k=2)

SECTION 5. LIST OF MEASURING INSTRUMENTS

Instrument	Model No.	Serial No.	Manufacturer	Cal Date	Cal Due Date
Isotropic probe	HI-6105	00130665	ETS Lindgren	2015/2/16	2016/2/29
Laser data interface	HI 6113	00130903	ETS Lindgren	N/A	N/A
Testing software	ProbeView™ Laser	Version 2.0.8	ETS Lindgren	N/A	N/A