TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST										
Description	Manufacturer	Model	Asset	Cal Due						
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01176	08/10/11						
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C00749	07/14/11						
Antenna, Horn, 18 GHz	EMCO	3115	C00872	06/29/11						
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01171	07/10/11						
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00558	01/06/11						

FUNDAMENTAL, HARMONICS AND TX SPURIOUS EMISSION (30 - 1000 MHz)

Certification Services

FCC, VCCI, CISPR, CE, AUSTEL, NZ UL, CSA, TUV, BSMI, DHHS, NVLAP 47173 BENICIA STREET, FREMONT, CA 94538 PHONE: (510) 771-1000 FAX: (501) 661-0888

 Company:
 Jonhnson Outdoors, Inc.

 EUT Description:
 433 MHz Battery-Power Remote Control

 Test Configuration:
 EUT Batteries Operated .

 Type of Test:
 FCC 15.231(b)

 Mode of Operation:
 Continuous Transmit

M% = ((t1+t2+t3+...)/T) =

17.4%

Av Reading = Pk Reading + 20*log(M%) 20 * log (M%) = -15.19 (Max=-2

Project #:

Report #: Date& Time:

Test Engr:

10U13382

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-15.19 (Max=-20dB)

Freq.	Pk Rdg	Av Rdg	AF	Closs	Pre-amp	Pk Level	Av Level	Pk Limit	Av Limit	Pk Margin	Avg Margin	Pol
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	FCC_B	FCC_B	(dB)	(dB)	(H/√)
433.917MHz Fundamental frequency												
EUT At X F	osition											
433.92	69.59	54.40	15.60	1.80	0.00	86.99	71.80	100.83	80.83	-13.84	-9.03	3mH
433.92	54.85	39.66	15.60	1.80	0.00	72.25	57.06	100.83	80.83	-28.58	-23.77	3mV
EUT At Y F	osition											
433.92	69.17	53.98	15.60	1.80	0.00	86.57	71.38	100.83	80.83	-14.26	-9.45	3mH
433.92	61.03	45.84	15.60	1.80	0.00	78.43	63.24	100.83	80.83	-22.40	-17.59	3mV
EUT At Z F	osition											
433.92	67.70	52.51	15.60	1.80	0.00	85.10	69.91	100.83	80.83	-15.73	-10.92	3mH
433.92	66.50	51.31	15.60	1.80	0.00	83.90	68.71	100.83	80.83	-16.93	-12.12	3mV
X-Position	is the worst	case										
867.80	54.62	39.43	21.70	2.70	28.00	51.02	35.83	80.83	60.83	-29.81	-25.00	3mH
867.80	43.82	28.63	21.70	2.70	28.00	40.22	25.03	80.83	60.83	-40.61	-35.80	3mV

No other emissions were detected above system noise floor from 30 MHz to 1000 MHz. Note:

HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHz

