

Walt Disney Parks and Resorts US., Inc.

MagicBand 1.2 FCC 15.247:2015

Report # SYNA0173.1





CERTIFICATE OF TEST



Last Date of Test: December 10, 2015 Walt Disney Parks and Resorts US., Inc. Model: MagicBand 1.2

Radio Equipment Testing

Standards

Specification	Method	
FCC 15.247:2015	ANSI C63.10:2013	

Results

Method Clause	Test Description		Results	Comments
6.2	Powerline Conducted Emissions	No	N/A	Not required for a battery powered EUT.
6.5, 6.6, 11.12.1, 11.13.2	Spurious Radiated Emissions	Yes	Pass	
6.10.4	Band Edge Compliance	Yes	Pass	
11.6	Duty Cycle	Yes	N/A	
11.8.2	Occupied Bandwidth	Yes	Pass	
11.9	Output Power	Yes	Pass	
11.10	Power Spectral Density	Yes	Pass	
11.11	Spurious Conducted Emissions	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Rod Munro, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information.

REVISION HISTORY



Revision Number	Description	Date	Page Number
00	None		

ACCREDITATIONS AND AUTHORIZATIONS



United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

European Union

European Commission – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIP / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA - Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC – Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

SCOPE

For details on the Scopes of our Accreditations, please visit:

http://www.nwemc.com/accreditations/ http://gsi.nist.gov/global/docs/cabs/designations.html

MEASUREMENT UNCERTAINTY



Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	<u>- MU</u>
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	0.3 dB	-0.3 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	0	0
AC Powerline Conducted Emissions (dB)	0	0

FACILITIES





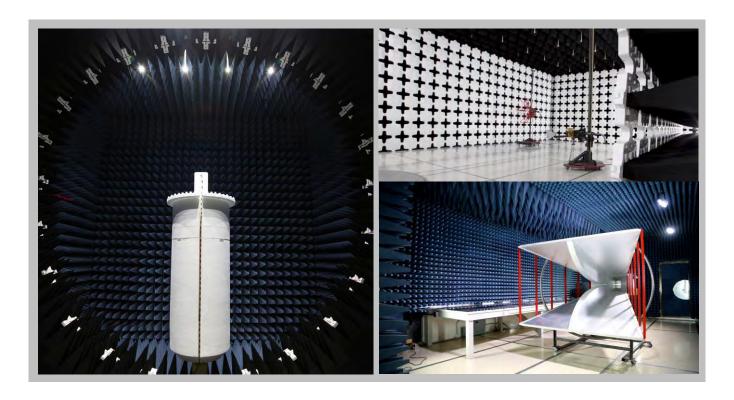


California	
Labs OC01-13	
41 Tesla	
Irvine, CA 92618	
(949) 861-8918	
41 Tesla Irvine, CA 92618	

Minnesota Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136 New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214 Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066 **Texas**Labs TX01-09
3801 E Plano Pkwy
Plano, TX 75074
(469) 304-5255

WashingtonLabs NC01-05
19201 120th Ave NE
Bothell, WA 9801
(425)984-6600

(949) 861-8918	(612)-638-5136	(315) 554-8214	(503) 844-4066	(469) 304-5255	(425)984-6600	
NVLAP						
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0	
		Industry	Canada			
2834B-1, 2834B-3	2834E-1	N/A	2834D-1, 2834D-2	2834G-1	2834F-1	
		BS	МІ			
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R	
		VC	CI			
A-0029	A-0109	N/A	A-0108	A-0201	A-0110	
Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA						
US0158	US0175	N/A	US0017	US0191	US0157	



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PRODUCT DESCRIPTION



Client and Equipment Under Test (EUT) Information

Company Name:	Walt Disney Parks and Resorts US., Inc.
Address:	PO Box 10000
City, State, Zip:	Lake Buena Vista, FL, 32830
Test Requested By:	Brian Piquette with Synapse Product Development LLC
Model:	MagicBand 1.2
First Date of Test:	October 05, 2015
Last Date of Test:	December 10, 2015
Receipt Date of Samples:	October 05, 2015
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

A previously certified wrist band (FCC ID: Q3E-MB-R1G1) that contains a proprietary DTS radio. This product model is a slight modification from the previously tested model. The flexible printed circuit has a minor modification and the plastic outer shell has been modified to improve wearability. No electrical functional changes have been made from the previously tested model.

Testing Objective:

To demonstrate compliance of the 2.4 GHz ISM radio to FCC 15.247 requirements.

CONFIGURATIONS



Configuration SYNA0173-1 and SYNA0183-1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Identity Band	Walt Disney Parks and Resorts US., Inc.	MagicBand 1.2	00059CE8B4

Configuration SYNA0173-2

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Identity Band	Walt Disney Parks and Resorts US., Inc.	MagicBand 1.2	00059CEB6B

Peripherals in test setup boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
External Battery Pack	Walt Disney Parks and Resorts US., Inc.	None	None		

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MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	10/5/2015	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	10/5/2015	Duty Cycle	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	10/6/2015	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	10/6/2015	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT was taken home by the client before the next scheduled test.
5	12/10/2015	Band Edge Compliance	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	12/10/2015	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
7	12/10/2015	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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SPURIOUS RADIATED EMISSIONS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Low Channel, 2401 MHz, GFSK Modulation Mid Channel, 2450 MHz, GFSK Modulation High Channel, 2476 MHz, GFSK Modulation

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

SYNA0173 - 2

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz Stop Frequency 26000 MHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

TEGT EQUIT MENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Cable	Northwest EMC	N/A	NC8	6/6/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOD	6/6/2015	12 mo
Antenna - Standard Gain	ETS Lindgren	3160-09	AIY	NCR	0 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOJ	9/21/2015	12 mo
Antenna - Standard Gain	EMCO	3160-08	AHO	NCR	0 mo
Cable	Northwest EMC	Standard Gain Horn Cable	NC3	6/17/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOK	9/21/2015	12 mo
Antenna - Standard Gain	EMCO	3160-07	AHP	NCR	0 mo
Filter - High Pass	Micro-Tronics	HPM50111	HHI	12/9/2014	12 mo
Attenuator	Fairview Microwave	SA18E-20	AQV	9/28/2015	12 mo
Cable	Northwest EMC	3115 Horn Cable	NC2	6/17/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVZ	7/31/2015	12 mo
Antenna - Double Ridge	EMCO	3115	AHM	6/3/2014	24 mo
Amplifier - Pre-Amplifier	Miteq	AM-1616-1000	PAB	7/31/2015	12 mo
Antenna - Biconilog	Teseq	CBL 6141B	AYL	7/30/2015	24 mo
Cable	Northwest EMC	Bilog Cables	NC1	8/27/2015	12 mo
Filter - Low Pass	Micro-Tronics	LPM50004	LFF	3/6/2015	12 mo
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	6/23/2015	12 mo

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

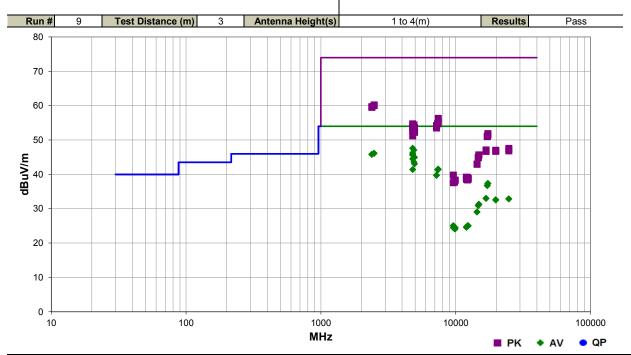


SPURIOUS RADIATED EMISSIONS

Work Order:	SYNA0173	Date:	10/06/15	M n Q
Project:	None	Temperature:	22 °C	Master W Terro
Job Site:	NC01	Humidity:	43.7% RH	1. (a) Moa
Serial Number:	00059CEB6B	Barometric Pres.:	1015 mbar	Tested by: Matthew Barnes
EUT:	MagicBand 1.2			
Configuration:				
Customer:	Walt Disney Parks and	d Resorts US., Inc.		
Attendees:	Brian Piquette			
EUT Power:	Battery			
Operating Mode:	See comments next to	data points for transmit	channel information	, all run on GFSK modulation
Deviations:	None			
Comments:	External Battery Attac	hed		

Test Specifications FCC 15.247:2015 **Test Method**

ANSI C63.10:2013



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4802.100	37.8	9.8	2.7	140.0	3.0	0.0	Horz	AV	0.0	47.6	54.0	-6.4	Low Ch, EUT end
4900.115	36.7	10.4	2.9	149.0	3.0	0.0	Horz	AV	0.0	47.1	54.0	-6.9	Mid Ch, EUT end
4802.100	36.4	9.8	3.6	3.0	3.0	0.0	Vert	AV	0.0	46.2	54.0	-7.8	Low Ch, EUT side
2484.697	26.9	-0.8	3.1	100.0	3.0	20.0	Vert	AV	0.0	46.1	54.0	-7.9	Hi Ch, EUT Flat
2484.540	26.9	-0.8	2.9	81.0	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	Hi Ch, EUT Flat
4802.085	36.0	9.8	3.3	4.0	3.0	0.0	Vert	AV	0.0	45.8	54.0	-8.2	Low Ch, EUT flat
2388.620	26.8	-1.0	2.1	193.0	3.0	20.0	Horz	AV	0.0	45.8	54.0	-8.2	Low Ch, EUT Flat
2388.360	26.8	-1.0	1.0	26.0	3.0	20.0	Vert	AV	0.0	45.8	54.0	-8.2	Low Ch, EUT Flat
4802.040	35.8	9.8	3.2	29.0	3.0	0.0	Vert	AV	0.0	45.6	54.0	-8.4	Low Ch, EUT end
4952.130	34.6	10.3	4.0	50.0	3.0	0.0	Vert	AV	0.0	44.9	54.0	-9.1	Hi Ch, EUT end
4802.130	34.7	9.8	3.6	192.0	3.0	0.0	Horz	AV	0.0	44.5	54.0	-9.5	Low Ch, EUT side
4900.065	33.2	10.4	1.1	91.0	3.0	0.0	Vert	AV	0.0	43.6	54.0	-10.4	Mid Ch, EUT end
4952.115	32.7	10.3	1.0	356.0	3.0	0.0	Horz	AV	0.0	43.0	54.0	-11.0	Hi Ch, EUT end
7427.975	25.1	16.4	1.0	285.0	3.0	0.0	Vert	AV	0.0	41.5	54.0	-12.5	Hi Ch, EUT end
4802.135	31.6	9.8	1.0	61.0	3.0	0.0	Horz	AV	0.0	41.4	54.0	-12.6	Low Ch, EUT flat
7428.165	25.0	16.4	1.0	42.0	3.0	0.0	Horz	AV	0.0	41.4	54.0	-12.6	Hi Ch, EUT end
7350.295	25.5	15.9	1.0	360.0	3.0	0.0	Vert	AV	0.0	41.4	54.0	-12.6	Mid Ch, EUT end
7349.895	25.5	15.9	1.0	249.0	3.0	0.0	Horz	AV	0.0	41.4	54.0	-12.6	Mid Ch, EUT end
2484.643	41.0	-0.8	3.1	100.0	3.0	20.0	Vert	PK	0.0	60.2	74.0	-13.8	Hi Ch, EUT Flat
2484.537	40.8	-0.8	2.9	81.0	3.0	20.0	Horz	PK	0.0	60.0	74.0	-14.0	Hi Ch, EUT Flat
2388.540	40.7	-1.0	2.1	193.0	3.0	20.0	Horz	PK	0.0	59.7	74.0	-14.3	Low Ch, EUT Flat
7203.510	25.4	14.3	3.6	127.0	3.0	0.0	Horz	AV	0.0	39.7	54.0	-14.3	Low Ch, EUT end

Proc. Proc														1
Perform Perf							External	Polarity/ Transducer		Distance			Compared to	
							Attenuation		Detector	Adjustment			Spec.	
7222680 26.4 14.3 14. 3560 30	(MHz)	(dBuV)	(dB)	(meters)	(degrees)	(meters)	(dB)			(dB)	(dBuV/m)	(dBuV/m)	(dB)	Comments
17325050 23.6 13.8 1.0 122.0 3.0 0.0 Vert AV 0.0 37.4 54.0 -16.6 HC EUT end 17325050 23.6 13.9 1.0 144.0 3.0 0.0 Horz AV 0.0 35.7 54.0 -16.7 HC PLOT end 17345910 23.4 13.3 1.0 256.0 3.0 0.0 Horz AV 0.0 35.7 54.0 -17.3 MaG D, EUT end 17345910 23.4 13.3 1.0 256.0 3.0 0.0 Horz AV 0.0 35.7 54.0 -17.3 MaG D, EUT end 17345910 23.4 13.3 10 256.0 3.0 0.0 Horz AV 0.0 35.7 Feb. 173.2 Mag D, EUT end 17345910 23.4 13.3 10 256.0 3.0 0.0 Horz AV 0.0 35.7 Feb. 173.3 Mag D, EUT end 17345910 23.4 13.3 10 256.0 3.0 0.0 Horz AV 0.0 55.7 Feb. 173.3 Mag D, EUT end 17345910 23.4 13.3 10 256.0 3.0 0.0 Horz AV 0.0 55.7 Feb. 173.3 Mag D, EUT end 17345910 23.4 13.3 10 256.0 3.0 0.0 Horz AV 0.0 55.2 Feb. 173.4 Hold D, EUT end 17345910 23.4 13.0 Horz AV 0.0 55.2 Feb. 173.4 Horz AV 0.0 Feb. 1734591 23.4 Horz AV 0.0 Horz AV 0.0 Feb. 1734591 23.4 Horz AV 0.0 Horz A	7202.680	25.4	14.3	1.4	359.0	3.0	0.0	Vert	AV	0.0	39.7	54.0	-14.3	
17335500 23.6 13.8 10 144.0 3.0 0.0 Hbz; AV 0.0 37.4 54.0 -16.8 H1Ch.EUT end 1744660 23.5 13.3 10.0 140.0 240.0 0.0 Went AV 0.0 36.8 54.0 -17.8 M4Ch.EUT end 1744660 23.5 13.3 10.0 140.0 240.0 0.0 Went AV 0.0 36.8 54.0 -17.8 M4Ch.EUT end 1745660 23.5 13.0 10.0 Went AV 0.0 36.8 54.0 -17.0 -17.7 H1Ch.EUT end 1745660 23.0 0.0 Went AV 0.0 36.8 34.0 -17.0 -17.7 H1Ch.EUT end 1745660 23.0 0.0 Went AV 0.0 36.8 34.0 -17.0 -17.7 H1Ch.EUT end 1745660 23.0 0.0 Went AV 0.0 36.8 34.0 -17.0 -17.7 H1Ch.EUT end 1745660 23.0 0.0 Went AV 0.0 56.8 34.0 -17.0 -17.7 H1Ch.EUT end 1745660 23.0 0.0 Went AV 0.0 56.8 34.0 -17.0 -17.7 H1Ch.EUT end 1745660 23.0 0.0 Went AV 0.0 56.8 34.0 -17.0 -17.0 H1Ch.EUT end 1745660 23.0 0.0 Went AV 0.0 56.8 34.0 -17.0 -17.0 H1Ch.EUT end 1745660 23.0 0.0 Went AV 0.0 56.8 34.0 -17.0 -17.0 H1Ch.EUT end 1745660 23.0 0.0 Went AV 0.0 56.8 34.0 -17.0 -17.0 H1Ch.EUT end 1745660 23.0 0.0 Went AV 0.0 56.8 34.0 -17.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.8 34.0 -17.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.8 34.0 -17.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 56.0 -17.0 H1Ch.EUT end 174560 23.0 0.0 Went AV 0.0 0.0 33.0 F4.0 -20.0 Low Ch.EUT end 174560 23.0 0.0 Went AV 0.0 0.0 33.0 F4.0 -20.0 Low Ch.EUT end 174560 23.0 0.0 Went AV 0.0 0.0 33.0 F4.0 -20.0 Low Ch.EUT end 174560 23.0 0.0 Went AV 0.0 0.0 33.0 F4.0 -20.0 Low Ch.EUT end 174560 23.0 0.0 Went AV 0.0 0.0 33.0 F4.0 -20.0 Low Ch.EUT end 174560 23.0 0.0 Went AV 0.0 0.0 33.0 F4.0 -20.0 Low Ch.EUT end 174560 23.0 0.0 Went AV	2389.910	40.5	-1.0	1.0	26.0	3.0	20.0	Vert	PK	0.0	59.5	74.0	-14.5	Low Ch, EUT Flat
17149 (1902) 23.5 13.3 1.0 2340 3.0 0.0 Horz AV 0.0 38.8 54.0 1.72 Mai Ch, EUT and 17149 (1902) 23.0 13.3 1.0 2340 3.0 0.0 Horz AV 0.0 38.7 54.0 1.73 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 14.0 1.88 H + Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 14.0 1.88 H + Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 14.0 1.88 H + Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 14.0 1.88 H + Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 14.0 1.88 H + Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 14.0 1.88 H + Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 14.0 1.88 H + Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 17149 (1902) 23.0 0.0 Horz PK 0.0 55.2 1.0 0.0 Mai Ch, EUT and 1														
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4898.860 42.1 10.4 11.1 91.0 3.0 0.0 Vert PK 0.0 52.5 74.0 -2.15 MidCh, EUT end 17332.090 38.1 13.8 1.0 144.0 3.0 0.0 Horz PK 0.0 51.9 74.0 -2.21 HiCh, EUT end 17332.090 38.1 13.8 1.0 144.0 3.0 0.0 Horz PK 0.0 51.9 74.0 -2.21 HiCh, EUT end 17332.090 38.1 13.8 1.0 122.0 3.0 0.0 Vert PK 0.0 51.4 74.0 -2.26 HiCh, EUT end 14855.260 26.0 5.3 1.0 168.0 3.0 0.0 Horz PK 0.0 31.3 54.0 -2.27 HiCh, EUT end 14855.260 26.0 5.3 1.0 168.0 3.0 0.0 Horz PK 0.0 31.3 54.0 -2.27 HiCh, EUT end 14858.260 26.0 5.3 1.0 33.0 3.0 0.0 Vert AV 0.0 31.3 54.0 -2.27 HiCh, EUT end 1401.830 41.4 9.9 1 10.0 81.0 3.0 0.0 Horz PK 0.0 51.2 TA 0.0 22.8 Low Ch, EUT end 1401.830 41.4 9.9 1 10.0 81.0 3.0 0.0 Horz PK 0.0 51.2 TA 0.0 22.8 Low Ch, EUT end 1401.830 41.4 9.9 1 10.0 81.0 3.0 0.0 Horz PK 0.0 51.0 TA 0.0 22.8 Low Ch, EUT end 1409.640 26.1 4.8 1.0 78.0 3.0 0.0 Horz PK 0.0 30.9 54.0 -2.31 Mid Ch, EUT end 1409.640 26.1 4.8 1.0 78.0 3.0 0.0 Horz AV 0.0 30.9 54.0 -2.31 Mid Ch, EUT end 1404.650 24.5 4.6 1.0 205.0 3.0 0.0 Horz AV 0.0 29.1 54.0 -2.31 Mid Ch, EUT end 1404.650 24.5 4.6 1.0 205.0 3.0 0.0 Horz AV 0.0 29.1 54.0 -2.49 Low Ch, EUT end 1404.650 24.5 4.6 1.0 205.0 3.0 0.0 Horz AV 0.0 29.1 54.0 -2.49 Low Ch, EUT end 1409.640 24.5 4.6 1.0 205.0 3.0 0.0 Horz AV 0.0 29.1 54.0 -2.49 Low Ch, EUT end 1409.640 24.5 4.6 1.0 205.0 3.0 0.0 Horz AV 0.0 29.1 54.0 -2.49 Low Ch, EUT end 1409.640 24.5 4.6 1.0 205.0 3.0 0.0 Horz AV 0.0 29.1 54.0 -2.49 Low Ch, EUT end 1409.640 24.5 4.6 1.0 205.0 3.0 0.0 Horz AV 0.0 29.1 54.0 -2.49 Low Ch, EUT end 1409.640 24.5 4.6 1.0 205.0 3.0 0.0 Horz AV 0.0 29.1 54.0 -2.49 Low Ch, EUT end 1409.640 24.5 4.6 1.0 205.0 3.0 0.0 Horz AV 0.0 29.1 54.0 -2.49 Low Ch, EUT end 1409.640 24.5 4.6 1.0 205.0 3.0 0.0 Horz AV 0.0 29.1 54.0 -2.49 Low Ch, EUT end 1409.640 24.5 4.6 1.0 205.0 3.0 0.0 Horz AV 0.0 29.1 54.0 -2.49 Low Ch, EUT end 1409.640 24.9 Low Ch, E														
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12250.210 41.0 -2.6 1.0 55.0 3.0 0.0 Horz PK 0.0 38.4 74.0 -35.6 Mid Ch, EUT end 9904.195 41.7 -3.4 1.0 2.0 3.0 0.0 Vert PK 0.0 38.3 74.0 -35.7 Hi Ch, EUT end 9902.580 41.7 -3.4 1.6 181.0 3.0 0.0 Horz PK 0.0 38.3 74.0 -35.7 Hi Ch, EUT end 9800.155 41.5 -3.5 1.0 106.0 3.0 0.0 Vert PK 0.0 38.0 74.0 -36.0 Mid Ch, EUT end 9801.340 41.3 -3.5 1.0 9.0 3.0 0.0 Horz PK 0.0 37.8 74.0 -36.2 Mid Ch, EUT end														
9904.195 41.7 -3.4 1.0 2.0 3.0 0.0 Vert PK 0.0 38.3 74.0 -35.7 Hi Ch, EUT end 9902.580 41.7 -3.4 1.6 181.0 3.0 0.0 Horz PK 0.0 38.3 74.0 -35.7 Hi Ch, EUT end 9801.55 41.5 -3.5 1.0 106.0 3.0 0.0 Vert PK 0.0 38.0 74.0 -36.0 Mid Ch, EUT end 9801.340 41.3 -3.5 1.0 9.0 3.0 0.0 Horz PK 0.0 37.8 74.0 -36.2 Mid Ch, EUT end														
9902.580 41.7 -3.4 1.6 181.0 3.0 0.0 Horz PK 0.0 38.3 74.0 -35.7 Hi Ch, EUT end 9800.155 41.5 -3.5 1.0 106.0 3.0 0.0 Vert PK 0.0 38.0 74.0 -36.0 Mid Ch, EUT end 9801.340 41.3 -3.5 1.0 9.0 3.0 0.0 Horz PK 0.0 37.8 74.0 -36.2 Mid Ch, EUT end														
9801.340 41.3 -3.5 1.0 9.0 3.0 0.0 Horz PK 0.0 37.8 74.0 -36.2 Mid Ch, EUT end	9902.580	41.7	-3.4	1.6	181.0	3.0	0.0	Horz	PK	0.0	38.3	74.0	-35.7	Hi Ch, EUT end
5555.255 5.0 1.0 55.0 5.0 5.0 Felt 110 5.0 57.0 74.0 50.4 LOW OIL LOT GIRL														
	3333. <u>E</u> 00		5.0	0	55.0	0.0	0.0	. 011		0.0	00	. 1.0	30.∓	

Report No. SYNA0173.1 12/39

BAND EDGE COMPLIANCE



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAT	9/29/2015	12
Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	6/6/2015	12
Block - DC	Fairview Microwave	SD3379	AMJ	6/6/2015	12
Attenuator	Fairview Microwave	SA4014-20	TKE	1/16/2015	12
Generator - Signal	Keysight	N5182B	TFY	4/16/2015	36

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

BAND EDGE COMPLIANCE



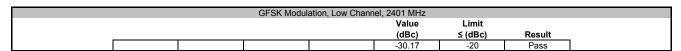
14/39

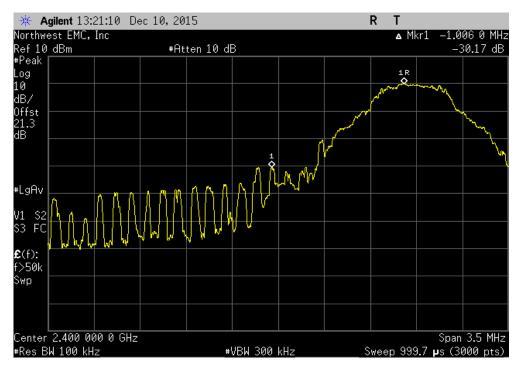
EUT	: MagicBand 1.2			Work Order:		
Serial Number		·		Date:	12/10/15	
	: Walt Disney Parks and Re	esorts US., Inc.		Temperature:	23°C	
	: Brian Piquette	-	·	Humidity:		
Project				Barometric Pres.:		
	: Richard Mellroth		Power: Battery	Job Site:	NC05	
TEST SPECIFICAT	TIONS		Test Method			
FCC 15.247:2015			ANSI C63.10:2013			
		·		•		
COMMENTS						
Post In-Park test,						
	M TEST STANDARD					
None						
Configuration #	1	Signature	Met			
				Value (dBc)	Limit ≤ (dBc)	Result
GFSK Modulation						
	Low Channel, 2401 MHz			-30.17	-20	Pass
	High Channel 2476 MHz			-49.73	-20	Pass

Report No. SYNA0173.1

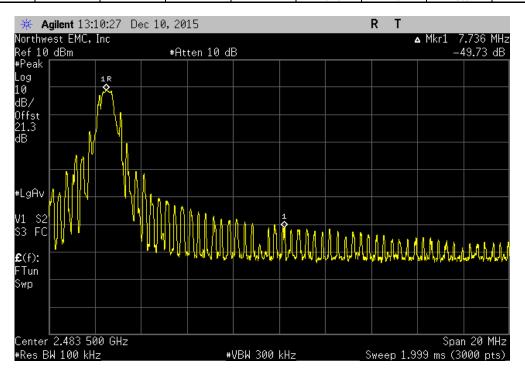
BAND EDGE COMPLIANCE







	GFSK Modula	ation, High Chanr	nel, 2476 MHz		
			Value	Limit	
			(dBc)	≤ (dBc)	Result
			-49.73	-20	Pass



Report No. SYNA0173.1 15/39



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	6/23/2015	12
Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	6/6/2015	12
Attenuator	Fairview Microwave	SA4014-20	TKE	1/16/2015	12
Block - DC	Fairview Microwave	SD3379	AMJ	6/6/2015	12
Generator - Signal	Keysight	N5182B	TFY	4/16/2015	36

TEST DESCRIPTION

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

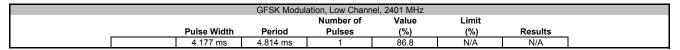
If the transmit duty cycle < 98 percent, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.

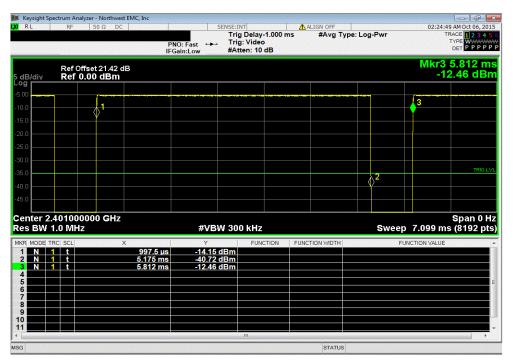


								01/11/10/20	
	MagicBand 1.2						Work Order:		
Serial Number								10/05/15	
	Walt Disney Parks and R	Resorts US., Inc.					Temperature:		
Attendees	Brian Piquette						Humidity:		
Project	None						Barometric Pres.:	1017mbar	
Tested by	Richard Mellroth		Power:	Battery			Job Site:	NC01	
TEST SPECIFICAT	TONS			Test Method					
FCC 15.247:2015				ANSI C63.10:2013					
COMMENTS									
None									
DEVIATIONS FRO	M TEST STANDARD								
None									
			0: h						
Configuration #	1		VIII						
· ·		Signature	here is						
						Number of	Value	Limit	
				Pulse Width	Period	Pulses	(%)	(%)	Results
GFSK Modulation							(,	(,	
	Low Channel, 2401 MHz			4.177 ms	4.814 ms	1	86.8	N/A	N/A
	Low Channel, 2401 MHz			N/A	N/A	5	N/A	N/A	N/A
	Mid Channel, 2450 MHz			4.175 ms	4.814 ms	1	86.7	N/A	N/A
	Mid Channel, 2450 MHz			N/A	N/A	, E	N/A	N/A	N/A
						3			
	High Channel, 2476 MHz High Channel, 2476 MHz			4.177 ms N/A	4.814 ms N/A	1	86.8 N/A	N/A N/A	N/A N/A

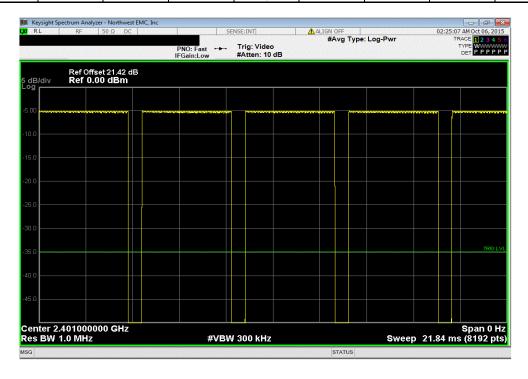
Report No. SYNA0173.1 17/39





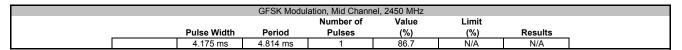


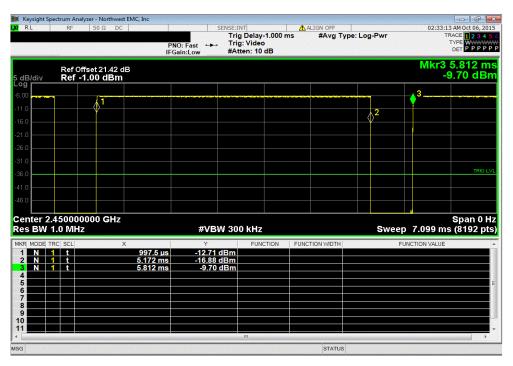
	GFSK Modul	ation, Low Chann	nel, 2401 MHz		
		Number of	Value	Limit	
 Pulse Width	Period	Pulses	(%)	(%)	Results
N/A	N/A	5	N/A	N/A	N/A



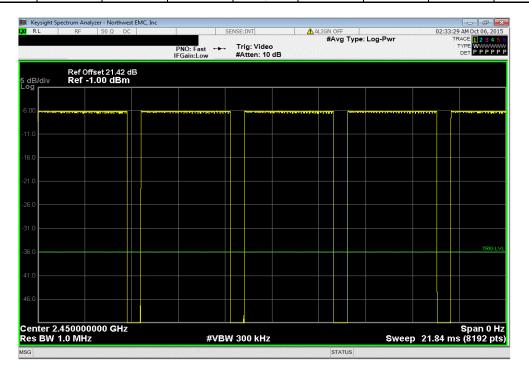
Report No. SYNA0173.1 18/39







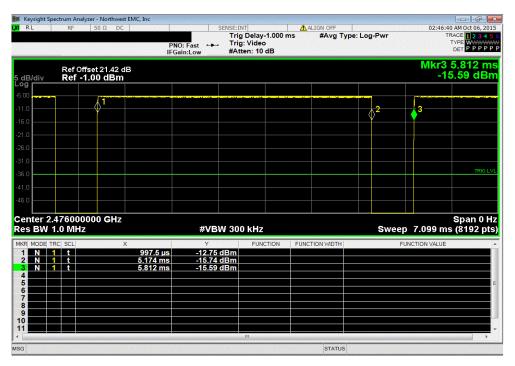
	GFSK Modul	lation, Mid Chann	el, 2450 MHz		
		Number of	Value	Limit	
 Pulse Width	Period	Pulses	(%)	(%)	Results
N/A	N/A	5	N/A	N/A	N/A



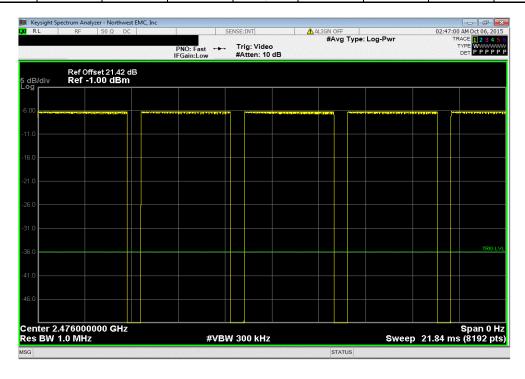
Report No. SYNA0173.1 19/39



		GFSK Modula	ation, High Chanr	el, 2476 MHz			
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	
	4.177 ms	4.814 ms	1	86.8	N/A	N/A	



	GFSK Modul	ation, High Chanr	nel, 2476 MHz		
		Number of	Value	Limit	
 Pulse Width	Period	Pulses	(%)	(%)	Results
N/A	N/A	5	N/A	N/A	N/A



Report No. SYNA0173.1 20/39



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	6/23/2015	12
Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	6/6/2015	12
Attenuator	Fairview Microwave	SA4014-20	TKE	1/16/2015	12
Block - DC	Fairview Microwave	SD3379	AMJ	6/6/2015	12
Generator - Signal	Keysight	N5182B	TFY	4/16/2015	36

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.00% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to the channels and modes listed in the datasheet. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer.

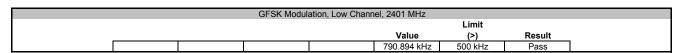


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EUT:	MagicBand 1.2				Work Order:	SYNA0173	
Serial Number:						10/06/15	
Customer:	Walt Disney Parks and Re	sorts US., Inc.			Temperature:	23°C	
Attendees:	Brian Piquette				Humidity:	46%	
Project:	None				Barometric Pres.:	1017mbar	
	Richard Mellroth		Power:	Battery	Job Site:	NC01	
TEST SPECIFICATI	IONS			Test Method			
FCC 15.247:2015				ANSI C63.10:2013			
COMMENTS							
None							
DEVIATIONS FROM	M TEST STANDARD						
None							
Configuration #	1	Signature	Mark				
						Limit	
					Value	(>)	Result
GFSK Modulation							
	Low Channel, 2401 MHz				790.894 kHz	500 kHz	Pass
	Mid Channel, 2450 MHz				876.597 kHz	500 kHz	Pass
	High Channel, 2476 MHz				789.311 kHz	500 kHz	Pass

Report No. SYNA0173.1





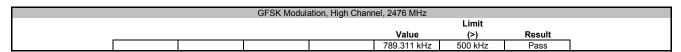


	GFSK Modul	ation, Mid Chann	el, 2450 MHz		
				Limit	
			Value	(>)	Result
			876.597 kHz	500 kHz	Pass



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Report No. SYNA0173.1



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAT	9/29/2015	12
Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	6/6/2015	12
Attenuator	Fairview Microwave	SA4014-20	TKE	1/16/2015	12
Block - DC	Fairview Microwave	SD3379	AMJ	6/6/2015	12
Generator - Signal	Keysight	N5182B	TFY	4/16/2015	36

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak transmit power the DTS bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The method found in ANSI C63.10:2013 Section 11.10.2 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio..

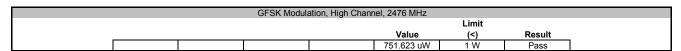
De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36 dBm.

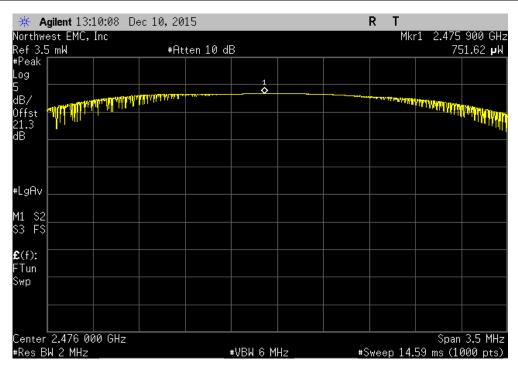


EUT:	: MagicBand 1.2					: SYNA0183	
Serial Number:	: 00060954B0				Date	: 12/10/15	
Customer	: Walt Disney Parks and R	esorts US., Inc.			Temperature	23°C	
Attendees	: Brian Piquette				Humidity	41%	
Project:	: None				Barometric Pres.	989mbar	
	: Richard Mellroth		Power:	Battery	Job Site	NC05	
TEST SPECIFICAT	TONS			Test Method			
FCC 15.247:2015				ANSI C63.10:2013			
COMMENTS							
Post In-Park test, I	RF re-tune.						
	M TEST STANDARD						
None							
Configuration #	1	Signature	Mall				
						Limit	
					Value	(<)	Result
GFSK Modulation							
	Low Channel, 2401 MHz				963.163 uW	1 W	Pass
	Mid Channel, 2450 MHz				840.814 uW	1 W	Pass
	High Channel, 2476 MHz				751.623 uW	1 W	Pass

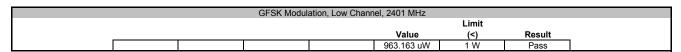
Report No. SYNA0173.1

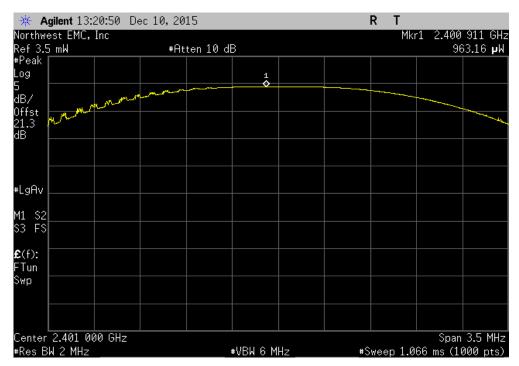




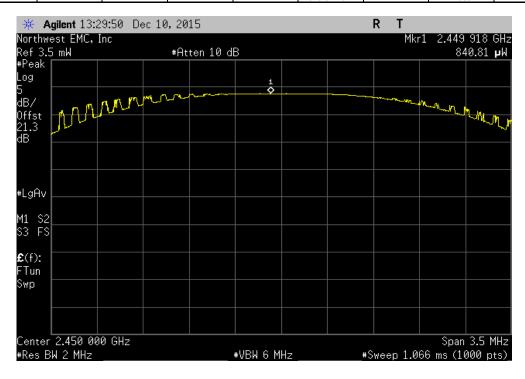








	GFSK Modul	ation, Mid Chann	el, 2450 MHz		
				Limit	
			Value	(<)	Result
			840.814 uW	1 W	Pass



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Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAT	9/29/2015	12
Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	6/6/2015	12
Attenuator	Fairview Microwave	SA4014-20	TKE	1/16/2015	12
Block - DC	Fairview Microwave	SD3379	AMJ	6/6/2015	12
Generator - Signal	Keysight	N5182B	TFY	4/16/2015	36

TEST DESCRIPTION

The maximum power spectral density measurements was measured using the channels and modes as called out on the following data sheets.

A direct connection was made between the RF output of the EUT and a spectrum analyzer. External attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

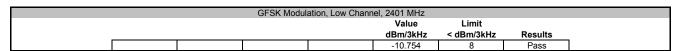
Per the procedure outlined in ANSI C63.10 the peak power spectral density was measured in a 3 kHz RBW.

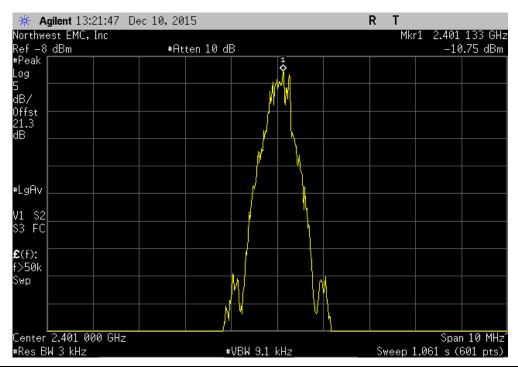


EUT	: MagicBand 1.2				Work Order:	SYNA0183	
Serial Number	r: 00060954B0				Date	12/10/15	
Customer	r: Walt Disney Parks and Re	sorts US., Inc.			Temperature:	23°C	
Attendees	: Brian Piquette				Humidity:		
	t: None				Barometric Pres.:	989mbar	
	/: Richard Mellroth		Power:	Battery	Job Site:	NC05	
TEST SPECIFICAT	TIONS			Test Method			
FCC 15.247:2015				ANSI C63.10:2013			
COMMENTS							
Post In-Park test,	RF re-tune.						
DEVIATIONS FRO	M TEST STANDARD						
None							
Configuration #	1	Signature	Mell				
		•			Value dBm/3kHz	Limit < dBm/3kHz	Results
GFSK Modulation							
	Low Channel, 2401 MHz				-10.754	8	Pass
	Mid Channel, 2450 MHz				-10.861	8	Pass
	High Channel, 2476 MHz				-10.405	8	Pass

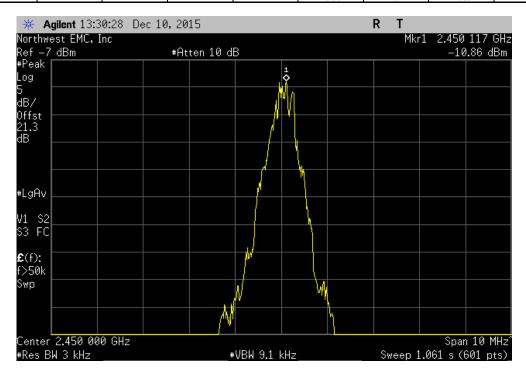
Report No. SYNA0173.1 30/39







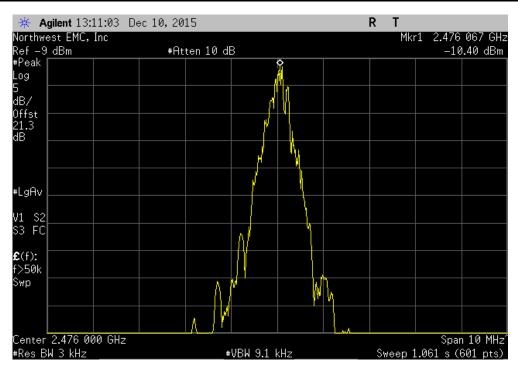
	GFSK Modul	ation, Mid Chann	el, 2450 MHz		
			Value	Limit	
			dBm/3kHz	< dBm/3kHz	Results
			-10.861	8	Pass



Report No. SYNA0173.1 31/39



	GFSK Modula	ation, High Chanr	el, 2476 MHz			
			Value	Limit		
			dBm/3kHz	< dBm/3kHz	Results	_
			-10.405	8	Pass	



Report No. SYNA0173.1



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	6/23/2015	12
Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	NC5	6/6/2015	12
Attenuator	Fairview Microwave	SA4014-20	TKE	1/16/2015	12
Block - DC	Fairview Microwave	SD3379	AMJ	6/6/2015	12
Generator - Signal	Keysight	N5182B	TFY	4/16/2015	36

TEST DESCRIPTION

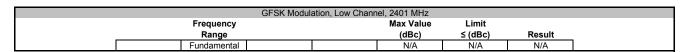
The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.



	MagicBand 1.2				Wor		SYNA0173	
Serial Number:	00059CE8B4						10/05/15	
Customer:	Walt Disney Parks and R	esorts US., Inc.			Temp	perature:	23°C	
	Brian Piquette					lumidity:		
Project:					Barometr	ric Pres.:	1017mbar	
	Richard Mellroth		Power:			Job Site:	NC01	
TEST SPECIFICAT	IONS			Test Method				
FCC 15.247:2015				ANSI C63.10:2013				
COMMENTS								
None								
DEVIATIONS FROM	M TEST STANDARD							
None								
		-	11 11					
None Configuration #	1		Stans					
	1	Signature	Meth					
	1	Signature	Meth	Frequency	Max \		Limit	
Configuration #	1	Signature	Meth	Frequency Range	Max \ (dE		Limit ≤ (dBc)	Result
	1	Signature	METL	Range	(dE	3c)	≤ (dBc)	
Configuration #	1 Low Channel, 2401 MHz	Signature	Meth	Range Fundamental	(dE	3c) /A	≤ (dBc)	N/A
Configuration #	Low Channel, 2401 MHz	Signature		Fundamental 30 MHz - 12.5 GHz	(dE N/ -38	/A 5.12	≤ (dBc) N/A -20	N/A Pass
Configuration #	Low Channel, 2401 MHz Low Channel, 2401 MHz	Signature		Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz	(dE N/ -38 -45	/A 3.12 3.96	≤ (dBc) N/A -20 -20	N/A Pass Pass
Configuration #	Low Channel, 2401 MHz Low Channel, 2401 MHz Mid Channel, 2450 MHz	Signature		Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental	(dE N// -38 -45 N/	/A i.12 i.96 /A	≤ (dBc) N/A -20 -20 N/A	N/A Pass Pass N/A
Configuration #	Low Channel, 2401 MHz Low Channel, 2401 MHz Mid Channel, 2450 MHz Mid Channel, 2450 MHz	Signature	:	Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental 30 MHz - 12.5 GHz	(dE N/ -38 -45 N/ -48	/A 3.12 3.96 /A 3.17	N/A -20 -20 N/A -20	N/A Pass Pass N/A Pass
Configuration #	Low Channel, 2401 MHz Low Channel, 2401 MHz Mid Channel, 2450 MHz Mid Channel, 2450 MHz Mid Channel, 2450 MHz	Signature	:	Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental 30 MHz - 12.5 GHz 12.5 GHz	(dE N/ -38 -45 N/ -48	/A 3.12 3.96 /A 3.17 5.51	≤ (dBc) N/A -20 -20 N/A -20 -20 20 -20	N/A Pass Pass N/A Pass Pass
Configuration #	Low Channel, 2401 MHz Low Channel, 2401 MHz Mid Channel, 2450 MHz Mid Channel, 2450 MHz Mid Channel, 2450 MHz High Channel, 2476 MHz	Signature	:	Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental 30 MHz - 12.5 GHz 12.5 GHz 12.5 GHz Fundamental	(dE N/ -38 -45 -45 -48 -45 -81	/A 3.12 3.96 /A 3.17 5.51 /A	≤ (dBc) N/A -20 -20 N/A -20 -20 N/A -20 -20 N/A	N/A Pass Pass N/A Pass Pass
Configuration #	Low Channel, 2401 MHz Low Channel, 2401 MHz Mid Channel, 2450 MHz Mid Channel, 2450 MHz Mid Channel, 2450 MHz	Signature	:	Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental 30 MHz - 12.5 GHz 12.5 GHz	(dE N/ -38 -45 N/ -48	/A 3.12 3.96 /A 3.17 5.51 /A 5.83	≤ (dBc) N/A -20 -20 N/A -20 -20 20 -20	N/A Pass Pass N/A Pass Pass

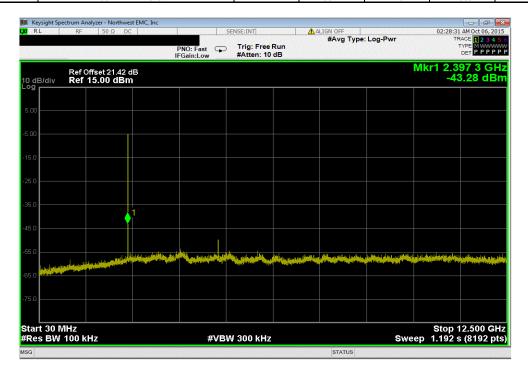
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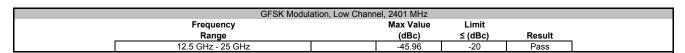


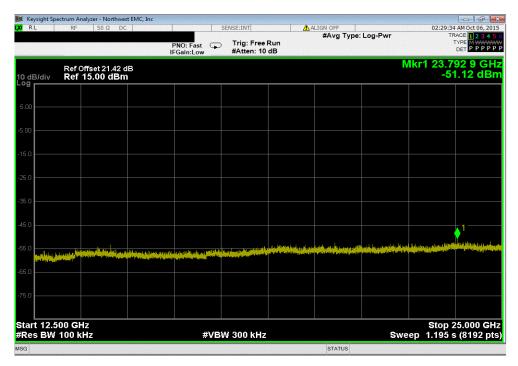
GFSK Modula	tion, Low Channel, 2401 MHz		
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-38.12	-20	Pass



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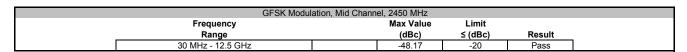


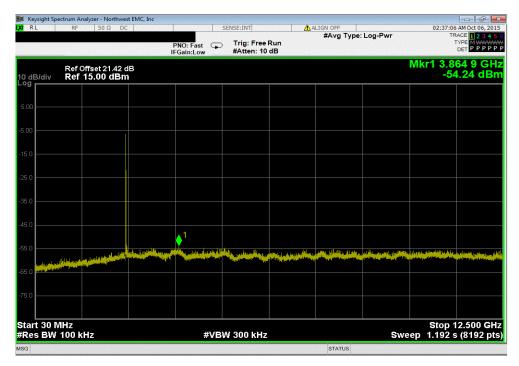
	GFSK M	odulation, Mid Channel, 2450 MI	·lz	
	Frequency	Max Va	lue Limit	
_	Range	(dBc	≤ (dBc)	Result
l	Fundamental	N/A	N/A	N/A



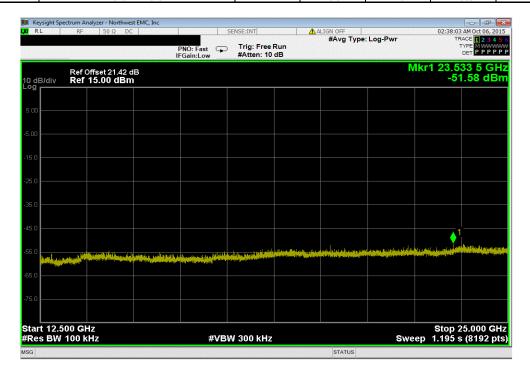
Report No. SYNA0173.1 36/39





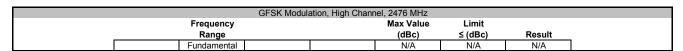


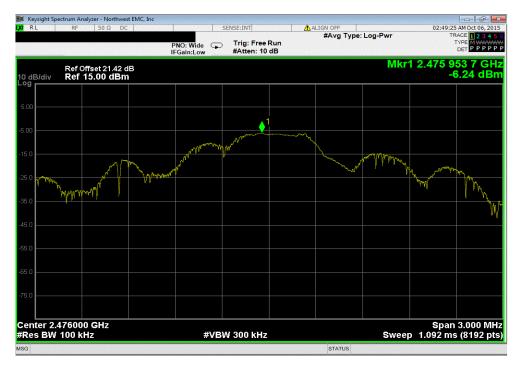
GFSK Mod	ulation, Mid Channel, 2450 MHz		
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz	-45.51	-20	Pass



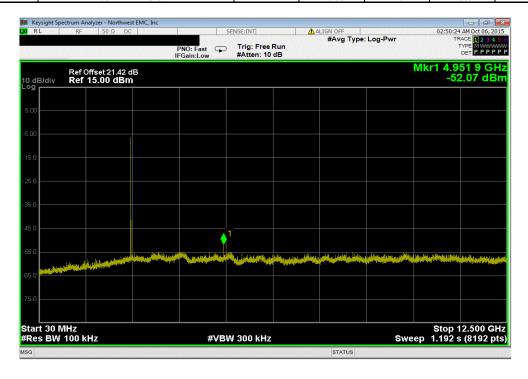
Report No. SYNA0173.1 37/39







GFSK Modulati	ion, High Channel, 2476 MHz		
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-45.83	-20	Pass

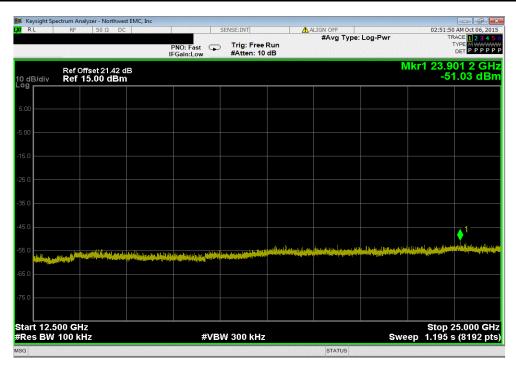


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GFSK Modulation, High Channel, 2476 MHz							
Frequency		Max Value	Limit				
Range		(dBc)	≤ (dBc)	Result			
12.5 GHz - 25 GHz		-44.8	-20	Pass			



Report No. SYNA0173.1